

March 27, 2020

Vista Work Order No. 2000144

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 January 23, 2020 under your Project Name 'Gasco PDI 000029-02.59'.

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

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

Sincerely,

Martha Maier
Laboratory Director



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

Vista Work Order No. 2000144

Case Narrative

Sample Condition on Receipt:

Twenty-four 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. Fourteen samples were included in this Work Order and the remaining samples listed on the CoC were assigned to Vista Work Order No. 2000143. The container for sample "PDI-055SC-A-03-04-191015" cracked while the sample thawed and the contents were transferred to a 120 mL amber jar. The sample collection times were taken from the container labels.

Analytical Notes:

EPA Method 1613B

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

Holding Times

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

Quality Control

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

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

As requested, a duplicate was performed on sample "PDI-052SC-A-06-07-191015". The RPDs outside of the acceptance criteria are listed in bold font. The "#" symbol indicates that the analyte was detected in either the sample or the duplicate, but not both, and an RPD could not be calculated.

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

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2000144-01	PDI-052SC-A-06-07-191015	15-Oct-19 00:00	23-Jan-20 08:55	Amber Glass, 120 mL
2000144-02	PDI-055SC-A-02-03-191015	15-Oct-19 00:00	23-Jan-20 08:55	Amber Glass, 120 mL
2000144-03	PDI-055SC-A-03-04-191015	15-Oct-19 00:00	23-Jan-20 08:55	Amber Glass, 120 mL
2000144-04	PDI-059SC-A-12-13-191016	16-Oct-19 00:00	23-Jan-20 08:55	Amber Glass, 120 mL
2000144-05	PDI-064SC-A-02-03-190929	29-Sep-19 00:00	23-Jan-20 08:55	Amber Glass, 120 mL
2000144-06	PDI-064SC-A-03-04-190929	29-Sep-19 00:00	23-Jan-20 08:55	Amber Glass, 120 mL
2000144-07	PDI-079SC-A-08-09-191014	14-Oct-19 00:00	23-Jan-20 08:55	Amber Glass, 120 mL
2000144-08	PDI-079SC-A-09-10-191014	14-Oct-19 00:00	23-Jan-20 08:55	Amber Glass, 120 mL
2000144-09	PDI-081SC-A-08-09-191002	02-Oct-19 00:00	23-Jan-20 08:55	Amber Glass, 120 mL
2000144-10	PDI-081SC-A-09-10-191002	02-Oct-19 00:00	23-Jan-20 08:55	Amber Glass, 120 mL
2000144-11	PDI-082SC-A-04-05-191002	02-Oct-19 00:00	23-Jan-20 08:55	Amber Glass, 120 mL
2000144-12	PDI-082SC-A-05-06-191002	02-Oct-19 00:00	23-Jan-20 08:55	Amber Glass, 120 mL
2000144-13	PDI-084SC-A-01-02-191002	02-Oct-19 00:00	23-Jan-20 08:55	Amber Glass, 120 mL
2000144-14	PDI-084SC-A-02-03-191002	02-Oct-19 00:00	23-Jan-20 08:55	Amber Glass, 120 mL

ANALYTICAL RESULTS

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

DL - Sample specific estimated detection limit

EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit

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

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

Sample ID: OPR					EPA Method 1613B		
Matrix: Solid Sample Size: 10.0 g		QC Batch: B0B0031 Date Extracted: 05-Feb-2020 14:26		Lab Sample: B0B0031-BS1 Date Analyzed: 07-Mar-20 10:32 Column: ZB-5MS			
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	19.1	20.0	95.3	67 - 158	IS 13C-2,3,7,8-TCDD	81.5	20 - 175
1,2,3,7,8-PeCDD	97.6	100	97.6	70 - 142	13C-1,2,3,7,8-PeCDD	87.1	21 - 227
1,2,3,4,7,8-HxCDD	96.1	100	96.1	70 - 164	13C-1,2,3,4,7,8-HxCDD	78.0	21 - 193
1,2,3,6,7,8-HxCDD	99.4	100	99.4	76 - 134	13C-1,2,3,6,7,8-HxCDD	77.0	25 - 163
1,2,3,7,8,9-HxCDD	101	100	101	64 - 162	13C-1,2,3,7,8,9-HxCDD	76.9	21 - 193
1,2,3,4,6,7,8-HpCDD	96.3	100	96.3	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	73.8	26 - 166
OCDD	189	200	94.7	78 - 144	13C-OCDD	66.4	13 - 199
2,3,7,8-TCDF	19.0	20.0	94.9	75 - 158	13C-2,3,7,8-TCDF	76.6	22 - 152
1,2,3,7,8-PeCDF	97.3	100	97.3	80 - 134	13C-1,2,3,7,8-PeCDF	78.5	21 - 192
2,3,4,7,8-PeCDF	97.4	100	97.4	68 - 160	13C-2,3,4,7,8-PeCDF	81.0	13 - 328
1,2,3,4,7,8-HxCDF	96.1	100	96.1	72 - 134	13C-1,2,3,4,7,8-HxCDF	81.5	19 - 202
1,2,3,6,7,8-HxCDF	98.3	100	98.3	84 - 130	13C-1,2,3,6,7,8-HxCDF	85.0	21 - 159
2,3,4,6,7,8-HxCDF	96.7	100	96.7	70 - 156	13C-2,3,4,6,7,8-HxCDF	81.7	22 - 176
1,2,3,7,8,9-HxCDF	93.4	100	93.4	78 - 130	13C-1,2,3,7,8,9-HxCDF	79.9	17 - 205
1,2,3,4,6,7,8-HpCDF	96.4	100	96.4	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	75.6	21 - 158
1,2,3,4,7,8,9-HpCDF	96.5	100	96.5	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	75.1	20 - 186
OCDF	190	200	95.0	63 - 170	13C-OCDF	71.3	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	82.1	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: PDI-052SC-A-06-07-191015 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000144-01 Date Received: 23-Jan-2020 8:55
Project: Gasco PDI 000029-02.59	Sample Size: 14.5 g	QC Batch: B0B0031 Date Extracted: 06-Feb-2020 14:26
Date Collected: 15-Oct-2019 0:00	% Solids: 69.1	Date Analyzed : 07-Mar-20 13:41 Column: ZB-5MS 20-Mar-20 14:00 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.481		IS 13C-2,3,7,8-TCDD	91.1	25 - 164	
1,2,3,7,8-PeCDD	0.612			J	13C-1,2,3,7,8-PeCDD	101	25 - 181	
1,2,3,4,7,8-HxCDD	ND		0.346		13C-1,2,3,4,7,8-HxCDD	106	32 - 141	
1,2,3,6,7,8-HxCDD	2.16			J	13C-1,2,3,6,7,8-HxCDD	111	28 - 130	
1,2,3,7,8,9-HxCDD	0.934			J	13C-1,2,3,7,8,9-HxCDD	94.0	32 - 141	
1,2,3,4,6,7,8-HpCDD	68.4				13C-1,2,3,4,6,7,8-HpCDD	134	23 - 140	
OCDD	920			B	13C-OCDD	109	17 - 157	
2,3,7,8-TCDF	10.7				13C-2,3,7,8-TCDF	89.1	24 - 169	
1,2,3,7,8-PeCDF	14.7				13C-1,2,3,7,8-PeCDF	100	24 - 185	
2,3,4,7,8-PeCDF	8.59				13C-2,3,4,7,8-PeCDF	96.5	21 - 178	
1,2,3,4,7,8-HxCDF	24.8				13C-1,2,3,4,7,8-HxCDF	130	26 - 152	
1,2,3,6,7,8-HxCDF	7.07				13C-1,2,3,6,7,8-HxCDF	119	26 - 123	
2,3,4,6,7,8-HxCDF	2.45			J	13C-2,3,4,6,7,8-HxCDF	112	28 - 136	
1,2,3,7,8,9-HxCDF	0.603			J, B	13C-1,2,3,7,8,9-HxCDF	122	29 - 147	
1,2,3,4,6,7,8-HpCDF	40.3				13C-1,2,3,4,6,7,8-HpCDF	124	28 - 143	
1,2,3,4,7,8,9-HpCDF	4.95				13C-1,2,3,4,7,8,9-HpCDF	134	26 - 138	
OCDF	48.8			B	13C-OCDF	105	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	95.4	35 - 197	

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

TEQMinWHO2005Dioxin 9.93

TOTALS			
Total TCDD	1.11		1.59
Total PeCDD	3.87		4.08
Total HxCDD	22.8		23.1
Total HpCDD	158		
Total TCDF	51.9		53.7
Total PeCDF	54.8		55.2 P
Total HxCDF	64.0		64.3 B
Total HpCDF	85.5		

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

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

Sample ID: Duplicate					EPA Method 1613B				
Source Client ID: PDI-052SC-A-06-07-191015		QC Batch: B0B0031		Lab Sample: B0B0031-DUP1					
Source LabNumber: 2000144-01		Date Extracted: 05-Feb-2020 14:26		Date Analyzed: 07-Mar-20 14:28 Column: ZB-5MS					
Matrix: Solid				20-Mar-20 12:57 Column: ZB-5MS					
Sample Size: 14.5 g									
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers	
2,3,7,8-TCDD	0.528				IS 13C-2,3,7,8-TCDD	96.7	25 - 164		
1,2,3,7,8-PeCDD	0.577			J	13C-1,2,3,7,8-PeCDD	101	25 - 181		
1,2,3,4,7,8-HxCDD	0.333			J	13C-1,2,3,4,7,8-HxCDD	95.3	32 - 141		
1,2,3,6,7,8-HxCDD	1.77			J	13C-1,2,3,6,7,8-HxCDD	91.4	28 - 130		
1,2,3,7,8,9-HxCDD	0.942			J	13C-1,2,3,7,8,9-HxCDD	92.9	32 - 141		
1,2,3,4,6,7,8-HpCDD	51.8				13C-1,2,3,4,6,7,8-HpCDD	108	23 - 140		
OCDD	651			B	13C-OCDD	93.2	17 - 157		
2,3,7,8-TCDF	9.49				13C-2,3,7,8-TCDF	94.0	24 - 169		
1,2,3,7,8-PeCDF	11.8				13C-1,2,3,7,8-PeCDF	94.1	24 - 185		
2,3,4,7,8-PeCDF	4.62				13C-2,3,4,7,8-PeCDF	95.6	21 - 178		
1,2,3,4,7,8-HxCDF	19.0				13C-1,2,3,4,7,8-HxCDF	92.5	26 - 152		
1,2,3,6,7,8-HxCDF	5.42				13C-1,2,3,6,7,8-HxCDF	89.9	26 - 123		
2,3,4,6,7,8-HxCDF	1.82			J	13C-2,3,4,6,7,8-HxCDF	93.4	28 - 136		
1,2,3,7,8,9-HxCDF	1.39			J, B	13C-1,2,3,7,8,9-HxCDF	96.2	29 - 147		
1,2,3,4,6,7,8-HpCDF	28.0				13C-1,2,3,4,6,7,8-HpCDF	102	28 - 143		
1,2,3,4,7,8,9-HpCDF	4.20				13C-1,2,3,4,7,8,9-HpCDF	103	26 - 138		
OCDF	35.7			B	13C-OCDF	92.3	17 - 157		
					CRS 37Cl-2,3,7,8-TCDD	98.0	35 - 197		
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)				
					TEQMinWHO2005Dioxin		7.91		
TOTALS									
Total TCDD	2.98								
Total PeCDD	3.77		4.05						
Total HxCDD	19.0								
Total HpCDD	121								
Total TCDF	48.6		49.7	P					
Total PeCDF	39.2		49.4	P					
Total HxCDF	51.1			B					
Total HpCDF	65.0								

DL - Sample specific estimated detection limit

EMPC - Estimated maximum possible concentration

LCL-UCL - Lower control limit - upper control limit

The results are reported in dry weight.

The sample size is reported in wet weight.

Sample ID: Duplicate					EPA Method 1613B				
Source Client ID: PDI-052SC-A-06-07-191015					Duplicate Lab Sample: B0B0031-DUP1				
Source LabNumber: 2000144-01									
Matrix: Solid									
Analyte	Dup Conc. (pg/g)	Source Conc.	RPD	RPD Limits	Labeled Standard	Dup %R	Source %R	LCL-UCL	
2,3,7,8-TCDD	0.528	ND	#	25	IS 13C-2,3,7,8-TCDD	96.7	91.1	25 - 164	
1,2,3,7,8-PeCDD	0.577	0.612	5.85	25	13C-1,2,3,7,8-PeCDD	101	101	25 - 181	
1,2,3,4,7,8-HxCDD	0.333	ND	#	25	13C-1,2,3,4,7,8-HxCDD	95.3	106	32 - 141	
1,2,3,6,7,8-HxCDD	1.77	2.16	19.9	25	13C-1,2,3,6,7,8-HxCDD	91.4	111	28 - 130	
1,2,3,7,8,9-HxCDD	0.942	0.934	0.808	25	13C-1,2,3,7,8,9-HxCDD	92.9	94.0	32 - 141	
1,2,3,4,6,7,8-HpCDD	51.8	68.4	27.7	25	13C-1,2,3,4,6,7,8-HpCDD	108	134	23 - 140	
OCDD	651	920	34.3	25	13C-OCDD	93.2	109	17 - 157	
2,3,7,8-TCDF	9.49	10.7	12.0	25	13C-2,3,7,8-TCDF	94.0	89.1	24 - 169	
1,2,3,7,8-PeCDF	11.8	14.7	22.0	25	13C-1,2,3,7,8-PeCDF	94.1	100	24 - 185	
2,3,4,7,8-PeCDF	4.62	8.59	60.2	25	13C-2,3,4,7,8-PeCDF	95.6	96.5	21 - 178	
1,2,3,4,7,8-HxCDF	19.0	24.8	26.2	25	13C-1,2,3,4,7,8-HxCDF	92.5	130	26 - 152	
1,2,3,6,7,8-HxCDF	5.42	7.07	26.5	25	13C-1,2,3,6,7,8-HxCDF	89.9	119	26 - 123	
2,3,4,6,7,8-HxCDF	1.82	2.45	29.4	25	13C-2,3,4,6,7,8-HxCDF	93.4	112	28 - 136	
1,2,3,7,8,9-HxCDF	1.39	0.603	79.0	25	13C-1,2,3,7,8,9-HxCDF	96.2	122	29 - 147	
1,2,3,4,6,7,8-HpCDF	28.0	40.3	36.0	25	13C-1,2,3,4,6,7,8-HpCDF	102	124	28 - 143	
1,2,3,4,7,8,9-HpCDF	4.20	4.95	16.4	25	13C-1,2,3,4,7,8,9-HpCDF	103	134	26 - 138	
OCDF	35.7	48.8	30.9	25	13C-OCDF	92.3	105	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	98.0	95.4	35 - 197	

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

Sample ID: PDI-055SC-A-02-03-191015 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000144-02 Date Received: 23-Jan-2020 8:55
Project: Gasco PDI 000029-02.59	Sample Size: 17.2 g	QC Batch: B0B0031 Date Extracted: 06-Feb-2020 14:26
Date Collected: 15-Oct-2019 0:00	% Solids: 58.2	Date Analyzed : 07-Mar-20 15:15 Column: ZB-5MS 20-Mar-20 14:32 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	7.79				IS 13C-2,3,7,8-TCDD	90.1	25 - 164	
1,2,3,7,8-PeCDD	3.95				13C-1,2,3,7,8-PeCDD	101	25 - 181	
1,2,3,4,7,8-HxCDD	2.58				13C-1,2,3,4,7,8-HxCDD	85.1	32 - 141	
1,2,3,6,7,8-HxCDD	18.6				13C-1,2,3,6,7,8-HxCDD	82.6	28 - 130	
1,2,3,7,8,9-HxCDD	6.50				13C-1,2,3,7,8,9-HxCDD	86.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	859				13C-1,2,3,4,6,7,8-HpCDD	110	23 - 140	
OCDD	5980			B	13C-OCDD	84.3	17 - 157	
2,3,7,8-TCDF	205				13C-2,3,7,8-TCDF	89.5	24 - 169	
1,2,3,7,8-PeCDF	214				13C-1,2,3,7,8-PeCDF	102	24 - 185	
2,3,4,7,8-PeCDF	124				13C-2,3,4,7,8-PeCDF	96.2	21 - 178	
1,2,3,4,7,8-HxCDF	251				13C-1,2,3,4,7,8-HxCDF	89.8	26 - 152	
1,2,3,6,7,8-HxCDF	63.6				13C-1,2,3,6,7,8-HxCDF	85.8	26 - 123	
2,3,4,6,7,8-HxCDF	17.8				13C-2,3,4,6,7,8-HxCDF	85.0	28 - 136	
1,2,3,7,8,9-HxCDF	16.6			B	13C-1,2,3,7,8,9-HxCDF	91.3	29 - 147	
1,2,3,4,6,7,8-HpCDF	123				13C-1,2,3,4,6,7,8-HpCDF	96.8	28 - 143	
1,2,3,4,7,8,9-HpCDF	44.7				13C-1,2,3,4,7,8,9-HpCDF	105	26 - 138	
OCDF	250			B	13C-OCDF	88.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	89.6	35 - 197	

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

TEQMinWHO2005Dioxin 126

TOTALS								
Total TCDD	35.1		35.3					
Total PeCDD	24.2		32.8					
Total HxCDD	330							
Total HpCDD	1990							
Total TCDF	767		797	P				
Total PeCDF	666		667					
Total HxCDF	510			B				
Total HpCDF	345							

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-A-03-04-191015 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000144-03 Date Received: 23-Jan-2020 8:55
Project: Gasco PDI 000029-02.59	Sample Size: 16.3 g	QC Batch: B0B0031 Date Extracted: 06-Feb-2020 14:26
Date Collected: 15-Oct-2019 0:00	% Solids: 61.5	Date Analyzed : 07-Mar-20 16:03 Column: ZB-5MS 27-Mar-20 00:03 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	6.04				IS 13C-2,3,7,8-TCDD	89.2	25 - 164	
1,2,3,7,8-PeCDD	5.55				13C-1,2,3,7,8-PeCDD	101	25 - 181	
1,2,3,4,7,8-HxCDD	4.19				13C-1,2,3,4,7,8-HxCDD	83.7	32 - 141	
1,2,3,6,7,8-HxCDD	29.0				13C-1,2,3,6,7,8-HxCDD	80.7	28 - 130	
1,2,3,7,8,9-HxCDD	11.4				13C-1,2,3,7,8,9-HxCDD	84.4	32 - 141	
1,2,3,4,6,7,8-HpCDD	1290				13C-1,2,3,4,6,7,8-HpCDD	81.5	23 - 140	
OCDD	11300			D, B	13C-OCDD	22.9	17 - 157	D
2,3,7,8-TCDF	203				13C-2,3,7,8-TCDF	82.3	24 - 169	
1,2,3,7,8-PeCDF	314				13C-1,2,3,7,8-PeCDF	98.0	24 - 185	
2,3,4,7,8-PeCDF	126				13C-2,3,4,7,8-PeCDF	91.8	21 - 178	
1,2,3,4,7,8-HxCDF	446				13C-1,2,3,4,7,8-HxCDF	87.8	26 - 152	
1,2,3,6,7,8-HxCDF	141				13C-1,2,3,6,7,8-HxCDF	83.2	26 - 123	
2,3,4,6,7,8-HxCDF	34.2				13C-2,3,4,6,7,8-HxCDF	82.2	28 - 136	
1,2,3,7,8,9-HxCDF	19.6			B	13C-1,2,3,7,8,9-HxCDF	87.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	253				13C-1,2,3,4,6,7,8-HpCDF	79.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	84.3				13C-1,2,3,4,7,8,9-HpCDF	86.3	26 - 138	
OCDF	590			B	13C-OCDF	41.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	85.1	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
TEQMinWHO2005Dioxin 167

TOTALS			
Total TCDD	36.4	37.0	
Total PeCDD	43.8		
Total HxCDD	418		
Total HpCDD	3370		
Total TCDF	772	799	P
Total PeCDF	959	962	
Total HxCDF	924	927	B
Total HpCDF	798		

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-059SC-A-12-13-191016 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000144-04 Date Received: 23-Jan-2020 8:55
Project: Gasco PDI 000029-02.59	Sample Size: 13.3 g	QC Batch: B0B0031 Date Extracted: 06-Feb-2020 14:26
Date Collected: 16-Oct-2019 0:00	% Solids: 75.7	Date Analyzed : 07-Mar-20 16:51 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0782			IS 13C-2,3,7,8-TCDD	104	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0626			13C-1,2,3,7,8-PeCDD	117	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.103			13C-1,2,3,4,7,8-HxCDD	97.0	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0972			13C-1,2,3,6,7,8-HxCDD	94.6	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.107			13C-1,2,3,7,8,9-HxCDD	100	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.29			J	13C-1,2,3,4,6,7,8-HpCDD	123	23 - 140	
OCDD	5.92			B	13C-OCDD	108	17 - 157	
2,3,7,8-TCDF	0.0725			J	13C-2,3,7,8-TCDF	102	24 - 169	
1,2,3,7,8-PeCDF	0.127			J	13C-1,2,3,7,8-PeCDF	108	24 - 185	
2,3,4,7,8-PeCDF	0.0973			J	13C-2,3,4,7,8-PeCDF	111	21 - 178	
1,2,3,4,7,8-HxCDF	ND		0.251		13C-1,2,3,4,7,8-HxCDF	102	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0723			13C-1,2,3,6,7,8-HxCDF	97.8	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0766			13C-2,3,4,6,7,8-HxCDF	100	28 - 136	
1,2,3,7,8,9-HxCDF	0.0851			J, B	13C-1,2,3,7,8,9-HxCDF	104	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.225			J	13C-1,2,3,4,6,7,8-HpCDF	105	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.105			13C-1,2,3,4,7,8,9-HpCDF	119	26 - 138	
OCDF	ND		0.314		13C-OCDF	108	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	99.5	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.0657

TOTALS								
Total TCDD	0.144							
Total PeCDD	ND		0.0696					
Total HxCDD	0.519		0.696					
Total HpCDD	2.88							
Total TCDF	0.0725							
Total PeCDF	0.224		0.373					
Total HxCDF	0.185		0.468	B				
Total HpCDF	0.225		0.482					

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-064SC-A-02-03-190929 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000144-05 Date Received: 23-Jan-2020 8:55
Project: Gasco PDI 000029-02.59	Sample Size: 19.1 g	QC Batch: B0B0031 Date Extracted: 06-Feb-2020 14:26
Date Collected: 29-Sep-2019 0:00	% Solids: 52.4	Date Analyzed : 07-Mar-20 17:38 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.102		IS 13C-2,3,7,8-TCDD	96.1	25 - 164	
1,2,3,7,8-PeCDD	ND		0.121		13C-1,2,3,7,8-PeCDD	108	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0908			13C-1,2,3,4,7,8-HxCDD	89.4	32 - 141	
1,2,3,6,7,8-HxCDD	ND		0.126		13C-1,2,3,6,7,8-HxCDD	85.1	28 - 130	
1,2,3,7,8,9-HxCDD	ND		0.251		13C-1,2,3,7,8,9-HxCDD	89.6	32 - 141	
1,2,3,4,6,7,8-HpCDD	2.28			J	13C-1,2,3,4,6,7,8-HpCDD	105	23 - 140	
OCDD	13.0			B	13C-OCDD	81.1	17 - 157	
2,3,7,8-TCDF	0.355			J	13C-2,3,7,8-TCDF	95.4	24 - 169	
1,2,3,7,8-PeCDF	ND		0.130		13C-1,2,3,7,8-PeCDF	103	24 - 185	
2,3,4,7,8-PeCDF	ND		0.0859		13C-2,3,4,7,8-PeCDF	103	21 - 178	
1,2,3,4,7,8-HxCDF	0.191			J	13C-1,2,3,4,7,8-HxCDF	92.0	26 - 152	
1,2,3,6,7,8-HxCDF	ND		0.140		13C-1,2,3,6,7,8-HxCDF	91.0	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0651			13C-2,3,4,6,7,8-HxCDF	91.2	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0852			13C-1,2,3,7,8,9-HxCDF	95.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND		0.235		13C-1,2,3,4,6,7,8-HpCDF	93.5	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.109			13C-1,2,3,4,7,8,9-HpCDF	103	26 - 138	
OCDF	0.272			J, B	13C-OCDF	85.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	95.2	35 - 197	

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

TEQMinWHO2005Dioxin 0.0814

TOTALS								
Total TCDD	1.01		1.60					
Total PeCDD	0.224		1.31					
Total HxCDD	1.52		2.97					
Total HpCDD	5.18							
Total TCDF	4.43		4.94					
Total PeCDF	0.294		1.16					
Total HxCDF	0.272		0.617	B				
Total HpCDF	ND		0.235					

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-064SC-A-03-04-190929 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000144-06 Date Received: 23-Jan-2020 8:55
Project: Gasco PDI 000029-02.59	Sample Size: 16.7 g	QC Batch: B0B0031 Date Extracted: 06-Feb-2020 14:26
Date Collected: 29-Sep-2019 0:00	% Solids: 60.3	Date Analyzed : 07-Mar-20 18:25 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0684			IS 13C-2,3,7,8-TCDD	96.8	25 - 164	
1,2,3,7,8-PeCDD	ND		0.0790		13C-1,2,3,7,8-PeCDD	99.3	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0747			13C-1,2,3,4,7,8-HxCDD	83.2	32 - 141	
1,2,3,6,7,8-HxCDD	0.150			J	13C-1,2,3,6,7,8-HxCDD	82.5	28 - 130	
1,2,3,7,8,9-HxCDD	ND		0.245		13C-1,2,3,7,8,9-HxCDD	83.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND		1.68		13C-1,2,3,4,6,7,8-HpCDD	91.5	23 - 140	
OCDD	13.6			B	13C-OCDD	54.1	17 - 157	
2,3,7,8-TCDF	0.265			J	13C-2,3,7,8-TCDF	93.7	24 - 169	
1,2,3,7,8-PeCDF	0.118			J	13C-1,2,3,7,8-PeCDF	95.1	24 - 185	
2,3,4,7,8-PeCDF	ND		0.0760		13C-2,3,4,7,8-PeCDF	94.3	21 - 178	
1,2,3,4,7,8-HxCDF	0.161			J	13C-1,2,3,4,7,8-HxCDF	87.1	26 - 152	
1,2,3,6,7,8-HxCDF	ND		0.0870		13C-1,2,3,6,7,8-HxCDF	85.4	26 - 123	
2,3,4,6,7,8-HxCDF	ND		0.0770		13C-2,3,4,6,7,8-HxCDF	83.1	28 - 136	
1,2,3,7,8,9-HxCDF	0.102			J, B	13C-1,2,3,7,8,9-HxCDF	85.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.264			J	13C-1,2,3,4,6,7,8-HpCDF	81.8	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.127			13C-1,2,3,4,7,8,9-HpCDF	85.7	26 - 138	
OCDF	0.297			J, B	13C-OCDF	63.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	90.2	35 - 197	

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

TEQMinWHO2005Dioxin 0.0781

TOTALS								
Total TCDD	0.437							
Total PeCDD	0.690		0.975					
Total HxCDD	2.42		2.67					
Total HpCDD	2.64		4.32					
Total TCDF	3.19		3.70					
Total PeCDF	0.668		0.914					
Total HxCDF	0.470		0.697	B				
Total HpCDF	0.264							

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

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

Sample ID: PDI-079SC-A-08-09-191014 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000144-07 Date Received: 23-Jan-2020 8:55
Project: Gasco PDI 000029-02.59	Sample Size: 15.4 g	QC Batch: B0B0031 Date Extracted: 06-Feb-2020 14:26
Date Collected: 14-Oct-2019 0:00	% Solids: 65.0	Date Analyzed : 07-Mar-20 19:13 Column: ZB-5MS 20-Mar-20 15:35 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.687		IS 13C-2,3,7,8-TCDD	97.3	25 - 164	
1,2,3,7,8-PeCDD	0.654			J	13C-1,2,3,7,8-PeCDD	112	25 - 181	
1,2,3,4,7,8-HxCDD	0.476			J	13C-1,2,3,4,7,8-HxCDD	88.9	32 - 141	
1,2,3,6,7,8-HxCDD	2.20			J	13C-1,2,3,6,7,8-HxCDD	87.3	28 - 130	
1,2,3,7,8,9-HxCDD	1.24			J	13C-1,2,3,7,8,9-HxCDD	90.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	63.0				13C-1,2,3,4,6,7,8-HpCDD	106	23 - 140	
OCDD	885			B	13C-OCDD	89.7	17 - 157	
2,3,7,8-TCDF	34.7				13C-2,3,7,8-TCDF	96.5	24 - 169	
1,2,3,7,8-PeCDF	65.7				13C-1,2,3,7,8-PeCDF	104	24 - 185	
2,3,4,7,8-PeCDF	20.5				13C-2,3,4,7,8-PeCDF	107	21 - 178	
1,2,3,4,7,8-HxCDF	89.0				13C-1,2,3,4,7,8-HxCDF	96.5	26 - 152	
1,2,3,6,7,8-HxCDF	24.3				13C-1,2,3,6,7,8-HxCDF	93.3	26 - 123	
2,3,4,6,7,8-HxCDF	5.66				13C-2,3,4,6,7,8-HxCDF	89.8	28 - 136	
1,2,3,7,8,9-HxCDF	4.81			B	13C-1,2,3,7,8,9-HxCDF	93.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	42.8				13C-1,2,3,4,6,7,8-HpCDF	91.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	17.1				13C-1,2,3,4,7,8,9-HpCDF	99.1	26 - 138	
OCDF	106			B	13C-OCDF	89.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	96.0	35 - 197	

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

TEQMinWHO2005Dioxin 26.5

TOTALS			
Total TCDD	1.79		4.21
Total PeCDD	4.21		4.71
Total HxCDD	20.5		20.7
Total HpCDD	135		
Total TCDF	151		156
Total PeCDF	178		
Total HxCDF	156		B
Total HpCDF	106		

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

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

Sample ID: PDI-079SC-A-09-10-191014 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000144-08 Date Received: 23-Jan-2020 8:55
Project: Gasco PDI 000029-02.59	Sample Size: 12.2 g	QC Batch: B0B0031 Date Extracted: 06-Feb-2020 14:26
Date Collected: 14-Oct-2019 0:00	% Solids: 81.8	Date Analyzed : 07-Mar-20 20:00 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0715			IS 13C-2,3,7,8-TCDD	101	25 - 164	
1,2,3,7,8-PeCDD	0.0577			J	13C-1,2,3,7,8-PeCDD	117	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0782			13C-1,2,3,4,7,8-HxCDD	94.3	32 - 141	
1,2,3,6,7,8-HxCDD	0.114			J	13C-1,2,3,6,7,8-HxCDD	90.9	28 - 130	
1,2,3,7,8,9-HxCDD	0.170			J	13C-1,2,3,7,8,9-HxCDD	96.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	2.39			J	13C-1,2,3,4,6,7,8-HpCDD	111	23 - 140	
OCDD	18.9			B	13C-OCDD	102	17 - 157	
2,3,7,8-TCDF	0.249			J	13C-2,3,7,8-TCDF	101	24 - 169	
1,2,3,7,8-PeCDF	0.448			J	13C-1,2,3,7,8-PeCDF	111	24 - 185	
2,3,4,7,8-PeCDF	0.199			J	13C-2,3,4,7,8-PeCDF	113	21 - 178	
1,2,3,4,7,8-HxCDF	1.29			J	13C-1,2,3,4,7,8-HxCDF	97.7	26 - 152	
1,2,3,6,7,8-HxCDF	0.468			J	13C-1,2,3,6,7,8-HxCDF	97.9	26 - 123	
2,3,4,6,7,8-HxCDF	0.130			J	13C-2,3,4,6,7,8-HxCDF	97.1	28 - 136	
1,2,3,7,8,9-HxCDF	0.139			J, B	13C-1,2,3,7,8,9-HxCDF	98.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	1.29			J	13C-1,2,3,4,6,7,8-HpCDF	98.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.773			J	13C-1,2,3,4,7,8,9-HpCDF	109	26 - 138	
OCDF	7.21			B	13C-OCDF	102	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	101	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.439

TOTALS								
Total TCDD	0.0630		0.260					
Total PeCDD	0.395		0.509					
Total HxCDD	2.00							
Total HpCDD	5.61							
Total TCDF	0.734		1.01					
Total PeCDF	1.18		1.48	P				
Total HxCDF	2.19		2.57	B				
Total HpCDF	3.46							

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-081SC-A-08-09-191002 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000144-09 Date Received: 23-Jan-2020 8:55
Project: Gasco PDI 000029-02.59	Sample Size: 15.0 g	QC Batch: B0B0031 Date Extracted: 06-Feb-2020 14:26
Date Collected: 02-Oct-2019 0:00	% Solids: 67.0	Date Analyzed : 16-Mar-20 02:22 Column: ZB-5MS 20-Mar-20 16:07 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	1.14				IS 13C-2,3,7,8-TCDD	91.1	25 - 164	
1,2,3,7,8-PeCDD	1.44			J	13C-1,2,3,7,8-PeCDD	98.5	25 - 181	
1,2,3,4,7,8-HxCDD	1.23			J	13C-1,2,3,4,7,8-HxCDD	94.1	32 - 141	
1,2,3,6,7,8-HxCDD	7.74				13C-1,2,3,6,7,8-HxCDD	91.0	28 - 130	
1,2,3,7,8,9-HxCDD	3.23				13C-1,2,3,7,8,9-HxCDD	95.2	32 - 141	
1,2,3,4,6,7,8-HpCDD	241				13C-1,2,3,4,6,7,8-HpCDD	95.9	23 - 140	
OCDD	3200			B	13C-OCDD	96.4	17 - 157	
2,3,7,8-TCDF	61.5				13C-2,3,7,8-TCDF	76.9	24 - 169	
1,2,3,7,8-PeCDF	157				13C-1,2,3,7,8-PeCDF	85.6	24 - 185	
2,3,4,7,8-PeCDF	51.5				13C-2,3,4,7,8-PeCDF	85.1	21 - 178	
1,2,3,4,7,8-HxCDF	299				13C-1,2,3,4,7,8-HxCDF	94.6	26 - 152	
1,2,3,6,7,8-HxCDF	71.0				13C-1,2,3,6,7,8-HxCDF	92.2	26 - 123	
2,3,4,6,7,8-HxCDF	17.9				13C-2,3,4,6,7,8-HxCDF	91.5	28 - 136	
1,2,3,7,8,9-HxCDF	15.2			B	13C-1,2,3,7,8,9-HxCDF	88.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	152				13C-1,2,3,4,6,7,8-HpCDF	84.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	42.9				13C-1,2,3,4,7,8,9-HpCDF	86.0	26 - 138	
OCDF	314			B	13C-OCDF	90.2	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	86.5	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
TEQMinWHO2005Dioxin 75.8

TOTALS			
Total TCDD	9.66		11.1
Total PeCDD	11.1		12.8
Total HxCDD	76.9		
Total HpCDD	610		
Total TCDF	246		256
Total PeCDF	437		
Total HxCDF	549		B
Total HpCDF	463		465

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-081SC-A-09-10-191002 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000144-10 Date Received: 23-Jan-2020 8:55
Project: Gasco PDI 000029-02.59	Sample Size: 16.3 g	QC Batch: B0B0031 Date Extracted: 06-Feb-2020 14:26
Date Collected: 02-Oct-2019 0:00	% Solids: 61.6	Date Analyzed : 16-Mar-20 03:10 Column: ZB-5MS 20-Mar-20 16:39 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.926		IS 13C-2,3,7,8-TCDD	92.5	25 - 164	
1,2,3,7,8-PeCDD	1.78			J	13C-1,2,3,7,8-PeCDD	101	25 - 181	
1,2,3,4,7,8-HxCDD	1.81			J	13C-1,2,3,4,7,8-HxCDD	98.8	32 - 141	
1,2,3,6,7,8-HxCDD	9.10				13C-1,2,3,6,7,8-HxCDD	97.3	28 - 130	
1,2,3,7,8,9-HxCDD	3.81				13C-1,2,3,7,8,9-HxCDD	100	32 - 141	
1,2,3,4,6,7,8-HpCDD	247				13C-1,2,3,4,6,7,8-HpCDD	92.8	23 - 140	
OCDD	3150			B	13C-OCDD	72.4	17 - 157	
2,3,7,8-TCDF	144				13C-2,3,7,8-TCDF	79.1	24 - 169	
1,2,3,7,8-PeCDF	275				13C-1,2,3,7,8-PeCDF	93.0	24 - 185	
2,3,4,7,8-PeCDF	95.5				13C-2,3,4,7,8-PeCDF	92.1	21 - 178	
1,2,3,4,7,8-HxCDF	336				13C-1,2,3,4,7,8-HxCDF	99.3	26 - 152	
1,2,3,6,7,8-HxCDF	88.0				13C-1,2,3,6,7,8-HxCDF	95.4	26 - 123	
2,3,4,6,7,8-HxCDF	25.2				13C-2,3,4,6,7,8-HxCDF	96.7	28 - 136	
1,2,3,7,8,9-HxCDF	17.3			B	13C-1,2,3,7,8,9-HxCDF	94.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	132				13C-1,2,3,4,6,7,8-HpCDF	87.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	51.5				13C-1,2,3,4,7,8,9-HpCDF	93.4	26 - 138	
OCDF	268			B	13C-OCDF	92.1	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	88.5	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
TEQMinWHO2005Dioxin 107

TOTALS								
Total TCDD	12.0		15.1					
Total PeCDD	19.6		20.4					
Total HxCDD	93.2		94.3					
Total HpCDD	680							
Total TCDF	611		612	P				
Total PeCDF	804		806					
Total HxCDF	670			B				
Total HpCDF	448							

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-082SC-A-04-05-191002 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000144-11 Date Received: 23-Jan-2020 8:55
Project: Gasco PDI 000029-02.59	Sample Size: 17.8 g	QC Batch: B0B0031 Date Extracted: 06-Feb-2020 14:26
Date Collected: 02-Oct-2019 0:00	% Solids: 56.3	Date Analyzed : 16-Mar-20 03:57 Column: ZB-5MS 20-Mar-20 17:10 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	1.44				IS 13C-2,3,7,8-TCDD	98.2	25 - 164	
1,2,3,7,8-PeCDD	3.32				13C-1,2,3,7,8-PeCDD	99.2	25 - 181	
1,2,3,4,7,8-HxCDD	4.44				13C-1,2,3,4,7,8-HxCDD	90.3	32 - 141	
1,2,3,6,7,8-HxCDD	23.4				13C-1,2,3,6,7,8-HxCDD	93.1	28 - 130	
1,2,3,7,8,9-HxCDD	10.0				13C-1,2,3,7,8,9-HxCDD	90.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	642				13C-1,2,3,4,6,7,8-HpCDD	90.1	23 - 140	
OCDD	9990			D, B	13C-OCDD	45.9	17 - 157	D
2,3,7,8-TCDF	236				13C-2,3,7,8-TCDF	86.3	24 - 169	
1,2,3,7,8-PeCDF	574				13C-1,2,3,7,8-PeCDF	94.6	24 - 185	
2,3,4,7,8-PeCDF	277				13C-2,3,4,7,8-PeCDF	91.2	21 - 178	
1,2,3,4,7,8-HxCDF	1020				13C-1,2,3,4,7,8-HxCDF	95.4	26 - 152	
1,2,3,6,7,8-HxCDF	264				13C-1,2,3,6,7,8-HxCDF	89.9	26 - 123	
2,3,4,6,7,8-HxCDF	77.9				13C-2,3,4,6,7,8-HxCDF	83.9	28 - 136	
1,2,3,7,8,9-HxCDF	52.2			B	13C-1,2,3,7,8,9-HxCDF	88.0	29 - 147	
1,2,3,4,6,7,8-HpCDF	482				13C-1,2,3,4,6,7,8-HpCDF	80.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	167				13C-1,2,3,4,7,8,9-HpCDF	85.4	26 - 138	
OCDF	971			B	13C-OCDF	80.5	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	86.0	35 - 197	

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

TEQMinWHO2005Dioxin 290

TOTALS				
Total TCDD	28.1		28.2	
Total PeCDD	39.5			
Total HxCDD	203			
Total HpCDD	1640			
Total TCDF	837		868	
Total PeCDF	1760			
Total HxCDF	1940			B
Total HpCDF	1400			

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-082SC-A-05-06-191002 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000144-12 Date Received: 23-Jan-2020 8:55
Project: Gasco PDI 000029-02.59	Sample Size: 17.6 g	QC Batch: B0B0031 Date Extracted: 06-Feb-2020 14:26
Date Collected: 02-Oct-2019 0:00	% Solids: 57.2	Date Analyzed : 16-Mar-20 04:45 Column: ZB-5MS 24-Mar-20 11:58 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.470		IS 13C-2,3,7,8-TCDD	93.7	25 - 164	
1,2,3,7,8-PeCDD	ND		0.714		13C-1,2,3,7,8-PeCDD	104	25 - 181	
1,2,3,4,7,8-HxCDD	0.975			J	13C-1,2,3,4,7,8-HxCDD	95.1	32 - 141	
1,2,3,6,7,8-HxCDD	6.03				13C-1,2,3,6,7,8-HxCDD	97.1	28 - 130	
1,2,3,7,8,9-HxCDD	2.36			J	13C-1,2,3,7,8,9-HxCDD	98.2	32 - 141	
1,2,3,4,6,7,8-HpCDD	189				13C-1,2,3,4,6,7,8-HpCDD	103	23 - 140	
OCDD	2680			B	13C-OCDD	122	17 - 157	
2,3,7,8-TCDF	61.2				13C-2,3,7,8-TCDF	87.5	24 - 169	
1,2,3,7,8-PeCDF	83.4				13C-1,2,3,7,8-PeCDF	95.0	24 - 185	
2,3,4,7,8-PeCDF	36.0				13C-2,3,4,7,8-PeCDF	95.7	21 - 178	
1,2,3,4,7,8-HxCDF	132				13C-1,2,3,4,7,8-HxCDF	96.5	26 - 152	
1,2,3,6,7,8-HxCDF	39.2				13C-1,2,3,6,7,8-HxCDF	93.0	26 - 123	
2,3,4,6,7,8-HxCDF	10.4				13C-2,3,4,6,7,8-HxCDF	89.7	28 - 136	
1,2,3,7,8,9-HxCDF	13.7			B	13C-1,2,3,7,8,9-HxCDF	95.3	29 - 147	
1,2,3,4,6,7,8-HpCDF	138				13C-1,2,3,4,6,7,8-HpCDF	90.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	26.1				13C-1,2,3,4,7,8,9-HpCDF	102	26 - 138	
OCDF	346			B	13C-OCDF	121	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	87.4	35 - 197	

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

TEQMinWHO2005Dioxin 44.3

TOTALS								
Total TCDD	4.01		6.57					
Total PeCDD	6.48		9.04					
Total HxCDD	53.8							
Total HpCDD	454							
Total TCDF	198		206	P				
Total PeCDF	252		266					
Total HxCDF	293		296	B				
Total HpCDF	468							

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-084SC-A-01-02-191002 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000144-13 Date Received: 23-Jan-2020 8:55
Project: Gasco PDI 000029-02.59	Sample Size: 20.5 g	QC Batch: B0B0031 Date Extracted: 06-Feb-2020 14:26
Date Collected: 02-Oct-2019 0:00	% Solids: 49.1	Date Analyzed : 16-Mar-20 05:32 Column: ZB-5MS 20-Mar-20 18:14 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.119			IS 13C-2,3,7,8-TCDD	97.6	25 - 164	
1,2,3,7,8-PeCDD	0.219			J	13C-1,2,3,7,8-PeCDD	104	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.166			13C-1,2,3,4,7,8-HxCDD	92.0	32 - 141	
1,2,3,6,7,8-HxCDD	1.50			J	13C-1,2,3,6,7,8-HxCDD	94.7	28 - 130	
1,2,3,7,8,9-HxCDD	0.681			J	13C-1,2,3,7,8,9-HxCDD	95.4	32 - 141	
1,2,3,4,6,7,8-HpCDD	26.6				13C-1,2,3,4,6,7,8-HpCDD	110	23 - 140	
OCDD	247			B	13C-OCDD	127	17 - 157	
2,3,7,8-TCDF	5.90				13C-2,3,7,8-TCDF	93.1	24 - 169	
1,2,3,7,8-PeCDF	9.95				13C-1,2,3,7,8-PeCDF	96.7	24 - 185	
2,3,4,7,8-PeCDF	4.34				13C-2,3,4,7,8-PeCDF	97.9	21 - 178	
1,2,3,4,7,8-HxCDF	21.8				13C-1,2,3,4,7,8-HxCDF	92.2	26 - 152	
1,2,3,6,7,8-HxCDF	4.81				13C-1,2,3,6,7,8-HxCDF	88.6	26 - 123	
2,3,4,6,7,8-HxCDF	1.08			J	13C-2,3,4,6,7,8-HxCDF	89.6	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.512		13C-1,2,3,7,8,9-HxCDF	94.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	9.20				13C-1,2,3,4,6,7,8-HpCDF	94.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	3.40				13C-1,2,3,4,7,8,9-HpCDF	101	26 - 138	
OCDF	19.3			B	13C-OCDF	120	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	94.2	35 - 197	

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

TEQMinWHO2005Dioxin	5.87
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TOTALS			
Total TCDD	ND	0.449	
Total PeCDD	0.942	1.50	
Total HxCDD	10.9	11.4	
Total HpCDD	54.6		
Total TCDF	15.7	18.9	
Total PeCDF	24.5	27.7	
Total HxCDF	37.1	37.6	B
Total HpCDF	24.1		

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-084SC-A-02-03-191002 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000144-14 Date Received: 23-Jan-2020 8:55
Project: Gasco PDI 000029-02.59	Sample Size: 20.3 g	QC Batch: B0B0031 Date Extracted: 06-Feb-2020 14:26
Date Collected: 02-Oct-2019 0:00	% Solids: 49.9	Date Analyzed : 16-Mar-20 06:20 Column: ZB-5MS 20-Mar-20 18:45 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	0.861				IS 13C-2,3,7,8-TCDD	101	25 - 164	
1,2,3,7,8-PeCDD	1.67			J	13C-1,2,3,7,8-PeCDD	111	25 - 181	
1,2,3,4,7,8-HxCDD	2.05			J	13C-1,2,3,4,7,8-HxCDD	102	32 - 141	
1,2,3,6,7,8-HxCDD	10.8				13C-1,2,3,6,7,8-HxCDD	103	28 - 130	
1,2,3,7,8,9-HxCDD	5.34				13C-1,2,3,7,8,9-HxCDD	101	32 - 141	
1,2,3,4,6,7,8-HpCDD	261				13C-1,2,3,4,6,7,8-HpCDD	118	23 - 140	
OCDD	3030			B	13C-OCDD	142	17 - 157	
2,3,7,8-TCDF	134				13C-2,3,7,8-TCDF	98.3	24 - 169	
1,2,3,7,8-PeCDF	261				13C-1,2,3,7,8-PeCDF	106	24 - 185	
2,3,4,7,8-PeCDF	117				13C-2,3,4,7,8-PeCDF	106	21 - 178	
1,2,3,4,7,8-HxCDF	594				13C-1,2,3,4,7,8-HxCDF	104	26 - 152	
1,2,3,6,7,8-HxCDF	157				13C-1,2,3,6,7,8-HxCDF	101	26 - 123	
2,3,4,6,7,8-HxCDF	35.0				13C-2,3,4,6,7,8-HxCDF	95.5	28 - 136	
1,2,3,7,8,9-HxCDF	19.0			B	13C-1,2,3,7,8,9-HxCDF	106	29 - 147	
1,2,3,4,6,7,8-HpCDF	342				13C-1,2,3,4,6,7,8-HpCDF	105	28 - 143	
1,2,3,4,7,8,9-HpCDF	114				13C-1,2,3,4,7,8,9-HpCDF	114	26 - 138	
OCDF	549			B	13C-OCDF	126	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	93.2	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
TEQMinWHO2005Dioxin 149

TOTALS								
Total TCDD	6.73		6.91					
Total PeCDD	13.3		13.6					
Total HxCDD	84.8		85.3					
Total HpCDD	554							
Total TCDF	490		504					
Total PeCDF	711							
Total HxCDF	1010			B				
Total HpCDF	727							

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

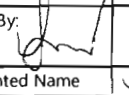
MATRIX: Solids	
Description of Test	Method
Tetra-Octa Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, 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


2000144

Chain of Custody Record & Laboratory Analysis Request

Laboratory Number:				Test Parameters															
Date: 01.21.20				No. of Containers Dioxin/furans (1613B) Total solids (SM 2540G)															
Project Name: Gasco PDI																			
Project Number: 000029-02.59																			
Project Manager: Delaney Peterson																			
Phone Number: 360.715.2707																			
Shipment Method: FedEx																		Comments/Preservation	
Samplers: dep																			
Line	Field Sample ID	Collection	Matrix																
46	PDI-064SC-A-03-04-190929	092919	SE	1	X	X													
47	PDI-079SC-A-08-09-191014	101419	SE	1	X	X													
48	PDI-079SC-A-09-10-191014	101419	SE	1	X	X													
49	PDI-081SC-A-08-09-191002	100219	SE	1	X	X													
50	PDI-081SC-A-09-10-191002	100219	SE	1	X	X													
51	PDI-082SC-A-04-05-191002	100219	SE	1	X	X													
52	PDI-082SC-A-05-06-191002	100219	SE	1	X	X													
53	PDI-084SC-A-01-02-191002	100219	SE	1	X	X													
54	PDI-084SC-A-02-03-191002	100219	SE	1	X	X													
55	 																		
56	 																		
57	 																		
58	 																		
59	 																		
60	 																		

Please analyze a duplicate on one per 20 samples.

Relinquished By:  Sarah Norwood
Signature/Printed Name: Sarah Norwood
Date/Time: 1/22/20 08:20
Company: Anchor QEA, LLC

Received By:  Lester Mulder / Connor Michel
Signature/Printed Name: Lester Mulder / Connor Michel
Date/Time: 01/23/20 08:55
Company: Vista

Relinquished By: _____
Signature/Printed Name: _____
Date/Time: _____
Company: _____

Received By: _____
Signature/Printed Name: _____
Date/Time: _____
Company: _____

WO# 2000144

Sample Log-In Checklist

 Page # 1 of 2

 Vista Work Order #: 2000144

 TAT Std

Samples Arrival:	Date/Time: 01/23/20 0855	Initials: CM	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"/> GLS	<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: 4.1 (uncorrected)	Probe used: Y / <input checked="" type="radio"/> N		Thermometer ID: IR-4
Temp °C: 4.1 (corrected)			

	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Custody Seals Intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Airbill <u>1082</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trk # <u>7775 8025 4187</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 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: 01/24/20 0839	Initials: KS	Location: WR-2
			Shelf/Rack: D6
COC Anomaly/Sample Acceptance Form completed?			<input checked="" type="checkbox"/>

 Comments: * No collection times

Sample Log-In Checklist

 Page # 2 of 2

 Vista Work Order #: 2000144

 TAT Std

Samples Arrival:	Date/Time <u>01/23/20</u> <u>0855</u>		Initials: <u>CM</u>		Location: <u>WR-2</u>		
					Shelf/Rack: <u>N/A</u>		
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac	<input type="checkbox"/> GLS	<input type="checkbox"/> DHL	<input type="checkbox"/> Hand Delivered	<input type="checkbox"/> Other
Preservation:	<input checked="" type="checkbox"/> Ice		<input type="checkbox"/> Blue Ice		<input type="checkbox"/> Dry Ice		<input type="checkbox"/> None
Temp °C: <u>1.4</u>	(uncorrected)		Probe used: Y <input checked="" type="checkbox"/> N			Thermometer ID: <u>IR-4</u>	
Temp °C: <u>1.4</u>	(corrected)						

	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Custody Seals Intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Airbill <u>2 of 2</u> Trk # <u>7775 8025 4224</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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chain of Custody / Sample Documentation Complete?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Holding Time Acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Logged In:	Date/Time <u>01/24/20</u> <u>0839</u>		Initials: <u>KS</u>		Location: <u>WR-2</u>		
					Shelf/Rack: <u>DP</u>		
COC Anomaly/Sample Acceptance Form completed?							

 Comments: * Collection times not present on COC

CoC/Label Reconciliation Report WO# 2000144

LabNumber	CoC Sample ID	Sample Alias	Sample Date/Time	Container	BaseMatrix	Sample Comments
C1	2000144-01	A PDI-052SC-A-06-07-191015	15-Oct-19 00:00	Amber Glass, 120 mL	Solid	
C2	2000144-02	A PDI-055SC-A-02-03-191015	15-Oct-19 00:00	Amber Glass, 120 mL	Solid	
C1	2000144-03	A PDI-055SC-A-03-04-191015	15-Oct-19 00:00	Amber Glass, 120 mL	Solid	
C2	2000144-04	A PDI-059SC-A-12-13-191016	16-Oct-19 00:00	Amber Glass, 120 mL	Solid	
J	2000144-05	A PDI-064SC-A-02-03-190929	29-Sep-19 00:00	Amber Glass, 120 mL	Solid	
J	2000144-06	A PDI-064SC-A-03-04-190929	29-Sep-19 00:00	Amber Glass, 120 mL	Solid	
C1	2000144-07	A PDI-079SC-A-08-09-191014	14-Oct-19 00:00	Amber Glass, 120 mL	Solid	
J	2000144-08	A PDI-079SC-A-09-10-191014	14-Oct-19 00:00	Amber Glass, 120 mL	Solid	
C2	2000144-09	A PDI-081SC-A-08-09-191002	02-Oct-19 00:00	Amber Glass, 120 mL	Solid	
J	2000144-10	A PDI-081SC-A-09-10-191002	02-Oct-19 00:00	Amber Glass, 120 mL	Solid	
C1	2000144-11	A PDI-082SC-A-04-05-191002	02-Oct-19 00:00	Amber Glass, 120 mL	Solid	
J	2000144-12	A PDI-082SC-A-05-06-191002	02-Oct-19 00:00	Amber Glass, 120 mL	Solid	
J	2000144-13	A PDI-084SC-A-01-02-191002	02-Oct-19 00:00	Amber Glass, 120 mL	Solid	
J	2000144-14	A PDI-084SC-A-02-03-191002	02-Oct-19 00:00	Amber Glass, 120 mL	Solid	

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

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

Comments:

C1 = cooler 1
C2 = cooler 2
* Collection time recorded from sample label
Ⓐ Sample container broke at labeling
Transferred to Amber 120 mL jar

Verified by/Date: KS 01/24/20



ANOMALY FORM

Vista Work Order 2000144

Initial/Date The following checked issues were noted during sample receipt and login:

- 1. The samples were received out of temperature at (WI-PHT): _____
Was Ice present: Yes No Melted Blue Ice
- 2. The Chain-of-Custody (CoC) was not relinquished properly.
- 3. The CoC did not include collection time(s). 00:00 will be used unless notified otherwise.
- 4. The sample(s) did not include a sample collection time. All or Sample Name: _____
- 5. A sample ID discrepancy was found. See the Reconciliation report.
The CoC Sample ID will be used unless notified otherwise.
- 6. A sample date and/or time discrepancy was found. See the Reconciliation report.
The CoC Sample date/time will be used unless notified otherwise.
- 7. The CoC did not include a sample matrix. The following sample matrix will be used: _____
- 8. Insufficient volume received for analysis. All or Sample Name: _____
- 9. The backup bottle was received broken. Sample Name: _____
- 10. CoC not received, illegible or destroyed.
- 11. The sample(s) were received out of holding time. All or Sample Name: _____
- 12. The CoC did not include an analysis. All or Sample Name: _____
- 13. Sample(s) received without collection date. All or Sample Name: _____
- 14. Sample(s) not received. All or Sample Name: _____
- 15. Sample(s) received broken. All or Sample Name: _____
- 16. An incorrect container-type was used. All or Sample Name: _____

KS 01/24/20 17. Other: Breakage during labeling
Sample ID: PDI-055SC-A-03-04-191615

Bolded items require sign-off

Client Contacted: _____

Date of Contact: _____

Vista Client Manager: _____

Resolution:

EXTRACTION INFORMATION

PRIORITY

Process Sheet

Workorder: **2000144**

13-Feb-20

Prep Expiration: 2020-09-28
Client: Anchor QEA, LLC

Workorder Due: ~~24-Feb-20 00:00~~

TAT: ~~20~~ 21

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

Prep Batch: BOB0031

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

Initial Sequence: SOB0066

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
2000144-01	<input checked="" type="checkbox"/>	PDI-052SC-A-06-07-191015	23-Jan-20 08:55	WR-2 D-6	Dup
2000144-02	<input checked="" type="checkbox"/>	PDI-055SC-A-02-03-191015	23-Jan-20 08:55	WR-2 D-6	
2000144-03	<input checked="" type="checkbox"/>	PDI-055SC-A-03-04-191015	23-Jan-20 08:55	WR-2 D-6	
2000144-04	<input checked="" type="checkbox"/>	PDI-059SC-A-12-13-191016	23-Jan-20 08:55	WR-2 D-6	
2000144-05	<input checked="" type="checkbox"/>	PDI-064SC-A-02-03-190929	23-Jan-20 08:55	WR-2 D-6	
2000144-06	<input checked="" type="checkbox"/>	PDI-064SC-A-03-04-190929	23-Jan-20 08:55	WR-2 D-6	
2000144-07	<input checked="" type="checkbox"/>	PDI-079SC-A-08-09-191014	23-Jan-20 08:55	WR-2 D-6	
2000144-08	<input checked="" type="checkbox"/>	PDI-079SC-A-09-10-191014	23-Jan-20 08:55	WR-2 D-6	
2000144-09	<input checked="" type="checkbox"/>	PDI-081SC-A-08-09-191002	23-Jan-20 08:55	WR-2 D-6	
2000144-10	<input checked="" type="checkbox"/>	PDI-081SC-A-09-10-191002	23-Jan-20 08:55	WR-2 D-6	
2000144-11	<input checked="" type="checkbox"/>	PDI-082SC-A-04-05-191002	23-Jan-20 08:55	WR-2 D-6	
2000144-12	<input checked="" type="checkbox"/>	PDI-082SC-A-05-06-191002	23-Jan-20 08:55	WR-2 D-6	
2000144-13	<input checked="" type="checkbox"/>	PDI-084SC-A-01-02-191002	23-Jan-20 08:55	WR-2 D-6	
2000144-14	<input checked="" type="checkbox"/>	PDI-084SC-A-02-03-191002	23-Jan-20 08:55	WR-2 D-6	

WO Comments: ~~Percent extraction (dry weight), PCB, Aldrin, Dieldrin, Dioxin, Endrin~~
Dioxin - 10g (dry weight)
~~PCB - 5g extraction (dry weight)~~

Pre-Prep Check Out: RR 01/29/20
Pre-Prep Check In: RR 01/29/20

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

Prep Reconciled Initials/Date: RR 01/29/20
Spike Reconciled Initials/Date: EM 02/06/20
VialBoxID: filed

PREPARATION BENCH SHEET

Matrix: Solid

B0B0031

Chemist: AO

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

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

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisl CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	B0B0031-BLK1	NA	(10.00)	AO AZ 02-06-20	AO AZ 02-07-20	AZ 02-07-20	AO 02/07/20	AO 02/07/20	AO 02/11/20	AO AZ 02/11/20
<input type="checkbox"/>	B0B0031-BS1	J	(10.00)	↓	↓	↓	no 04/04/20 yellow	↓	↓	↓
<input type="checkbox"/>	B0B0031-DUP1 2000144-01	14.47	14.48	↓	↓	NA	yellow	↓	↓	↓
<input type="checkbox"/>	1903736-10RE2	17.32	17.32	↓	↓	AZ 02-07-20	yellow	↓	↓	↓
<input type="checkbox"/>	2000144-01	14.47	14.52	↓	↓	NA	yellow	↓	↓	↓
<input type="checkbox"/>	2000144-02	17.18	17.22	↓	↓	↓	orange	↓	↓	↓
<input type="checkbox"/>	2000144-03	16.26	16.30	↓	↓	↓	orange	↓	↓	↓
<input type="checkbox"/>	2000144-04	13.22	13.26	↓	↓	white →	↓	↓	↓	↓
<input type="checkbox"/>	2000144-05	19.09	19.10	↓	↓	yellow →	↓	↓	↓	↓
<input type="checkbox"/>	2000144-06	16.58	16.68	↓	↓	yellow →	↓	↓	↓	↓
<input type="checkbox"/>	2000144-07	15.37	15.43	↓	↓	orange →	↓	↓	↓	↓
<input type="checkbox"/>	2000144-08	12.22	12.23	↓	↓	yellow →	↓	↓	↓	↓
<input type="checkbox"/>	2000144-09	14.93	14.98	↓	↓	white →	↓	↓	↓	↓
<input type="checkbox"/>	2000144-10 *	17.75	16.34	↓	↓	yellow →	↓	↓	↓	↓
<input type="checkbox"/>	2000144-11	17.75	17.76	↓	↓	orange →	↓	↓	↓	↓

IS Name <u>Vp</u>	NS Name <u>V3</u>	CRS Name <u>Vip</u>	RS Name <u>V4</u>	Cycle Time	APP: SEFUN SOX <u>SDS</u>	Check Out: Chemist/Date: <u>RR 02/06/20</u>
PCDD/F <u>19L2301, 10uL</u>	PCDD/F <u>18F1913, 10uL</u>	PCDD/F <u>19I1602, 10uL</u>	PCDD/F <u>19I1603, 10uL</u>	Start Date/Time <u>02-06-20</u> <u>1400</u>	SOLV: <u>Toluene</u>	Check In: Chemist/Date: <u>BU 02/06/20</u>
PCB _____	PCB _____	PCB _____	PCB _____	Stop Date/Time <u>02-07-20</u> <u>0600</u>	Other <u>NA</u>	Balance ID: <u>HRMS-8</u>
PAH _____	PAH _____	PAH _____	PAH _____	Final Volume(s) <u>C14</u> <u>20uL</u>		

Comments:

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

* 16.23

PREPARATION BENCH SHEET

Matrix: Solid

B0B0031

Chemist: AO

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

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

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	2000144-12	17.47	17.56	AO AZ 02-06-20	AO AZ 02-07-20	NA	AO 02/04/20	AO 02/06/20	AO 02/11/20	AO AZ 02/14/20
<input type="checkbox"/>	2000144-13	20.37	20.48	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000144-14	20.04	20.28	↓	↓	↓	↓	↓	↓	↓

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

IS Name <u>V6</u>	NS Name <u>V3</u>	CRS Name <u>V4</u>	RS Name <u>V4</u>	Cycle Time	APP: SEFUN SOX <u>SDS</u>	Check Out: <u>RR 02-06-20</u>
PCDD/F <u>1912301, 10ul</u>	PCDD/F <u>18F1913, 10ul</u>	PCDD/F <u>1911602, 10ul</u>	PCDD/F <u>1911603, 10ul</u>	Start Date/Time <u>02-06-20</u> <u>1400</u>	SOLV: <u>Toluene</u>	Check In: <u>ELM 02/06/20</u>
PCB _____	PCB _____	PCB _____	PCB _____	Stop Date/Time <u>02-07-20</u> <u>0600</u>	Other <u>NA</u>	Balance ID: <u>HRMS-8</u>
PAH _____	PAH _____	PAH _____	PAH _____	Final Volume(s) <u>C14</u> <u>20ul</u>		

Comments:

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

Percent Moisture/ Percent Solids

D2216-90

BATCH ID B0A0193

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

Inst HRMS-8

Date/Time IN: 01-29-20/0835 Date/Time OUT: 01-30-20/0910

Particle Size	SampleID	SampType	Initial and Date:			Dry Sample Weight (g)	%Solids RawVal	Visual Inspection	Cl.	pH Before	pH After	Acid Added	Sample Homogenized*
			Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)								
			1.26	7.22	5.38								X
			1.26	6.19	4.13								X
			1.26	6.82	4.68								X
			1.27	5.75	4.66								X
			1.24	5.88	3.67								X
			1.27	5.63	3.90								X
			1.26	6.18	4.46								X
			1.25	6.04	5.17								X
			1.24	5.39	4.02								X
			1.25	7.11	4.86								X
			1.26	6.00	3.93								X
			1.28	7.57	4.88								X
			1.27	7.32	4.24								X
			1.27	6.56	3.91								X

*Sample homogenized in sample container unless otherwise noted.

Batch: B0B0031

Matrix: Solid

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1903736-10RE2	17.32 ✓	57.73809	10.0002	20	06-Feb-20 14:26	ACO			Sediment	1613 Full List
2000144-01	14.52 ✓	69.12752	10.0373	20	06-Feb-20 14:26	ACO			Sediment	1613 Full List
2000144-02	17.22 ✓	58.21501	10.0246	20	06-Feb-20 14:26	ACO			Sediment	1613 Full List
2000144-03	16.3 ✓	61.51079	10.0263	20	06-Feb-20 14:26	ACO			Sediment	1613 Full List
2000144-04	13.26 ✓	75.66964	10.0338	20	06-Feb-20 14:26	ACO			Sediment	1613 Full List
2000144-05	19.1 ✓	52.37069	10.0028	20	06-Feb-20 14:26	ACO			Sediment	1613 Full List
2000144-06	16.68 ✓	60.3211	10.0616	20	06-Feb-20 14:26	ACO			Sediment	1613 Full List
2000144-07	15.43 ✓	65.04066	10.0358	20	06-Feb-20 14:26	ACO			Sediment	1613 Full List
2000144-08	12.23 ✓	81.83717	10.0087	20	06-Feb-20 14:26	ACO			Sediment	1613 Full List
2000144-09	14.98 ✓	66.98795	10.0348	20	06-Feb-20 14:26	ACO			Sediment	1613 Full List
2000144-10	16.34 ✓	61.6041	10.0661	20	06-Feb-20 14:26	ACO			Sediment	1613 Full List
2000144-11	17.76 ✓	56.32912	10.0041	20	06-Feb-20 14:26	ACO			Sediment	1613 Full List
2000144-12	17.56 ✓	57.2337	10.0502	20	06-Feb-20 14:26	ACO			Sediment	1613 Full List
2000144-13	20.48 ✓	49.0909	10.0538	20	06-Feb-20 14:26	ACO			Sediment	1613 Full List
2000144-14	20.28 ✓	49.90548	10.1208	20	06-Feb-20 14:26	ACO			Sediment	1613 Full List
B0B0031-BLK1	10			20	05-Feb-20 14:26	ACO				QC
B0B0031-BS1	10			20	05-Feb-20 14:26	ACO	18F1913	10		QC
B0B0031-DUP1	14.48 ✓	69.12752	10.0097	20	05-Feb-20 14:26	ACO				QC

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

SAMPLE DATA – EPA METHOD 1613

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

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

Printed: Tuesday, March 10, 2020 16:11:55 Pacific Daylight Time

GRB 03/10/2020

C7 03/24/2020

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

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

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

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

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

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

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

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

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

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

Last Altered: Tuesday, March 10, 2020 16:09:45 Pacific Daylight Time
Printed: Tuesday, March 10, 2020 16:11:04 Pacific Daylight Time

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

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

Tetra-Dioxins

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

Penta-Dioxins

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

Hexa-Dioxins

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

Hepta-Dioxins

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

Tetra-Furans

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

Penta-Furans function 1

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

Vista Analytical Laboratory

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

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

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

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

Method: U:\VG12

CacheName: 10

Normal: 200307R1

Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

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

Dataset: Untitled

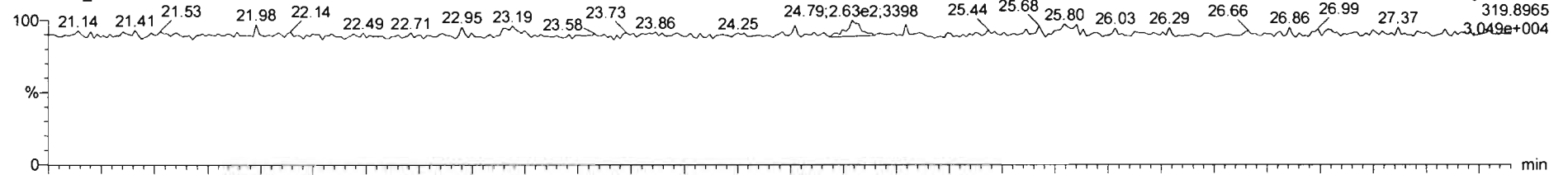
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Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

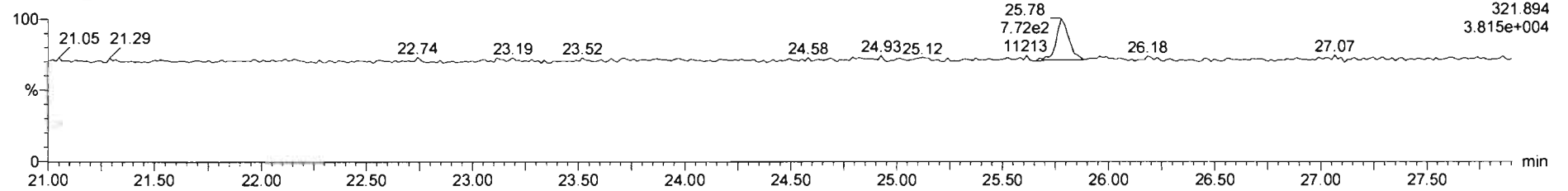
Name: 200307R1_4, Date: 07-Mar-2020, Time: 12:06:17, ID: B0B0031-BLK1 Method Blank 10, Description: Method Blank

2,3,7,8-TCDD

200307R1_4

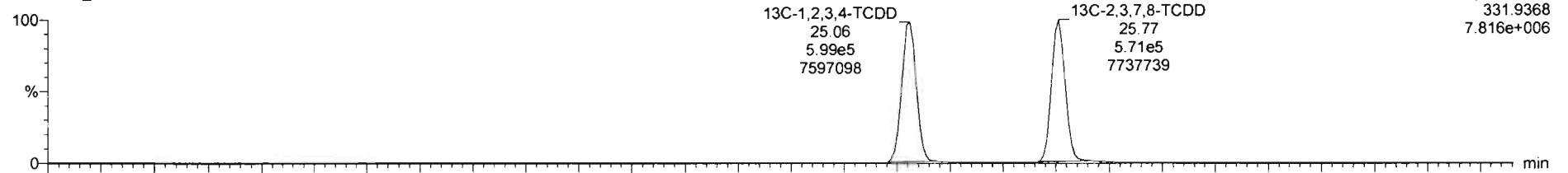


200307R1_4

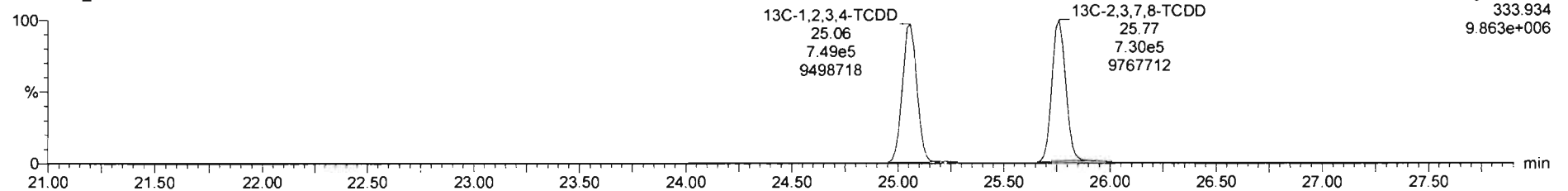


13C-2,3,7,8-TCDD

200307R1_4



200307R1_4



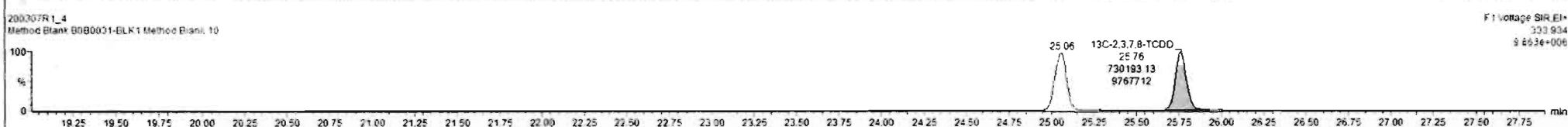
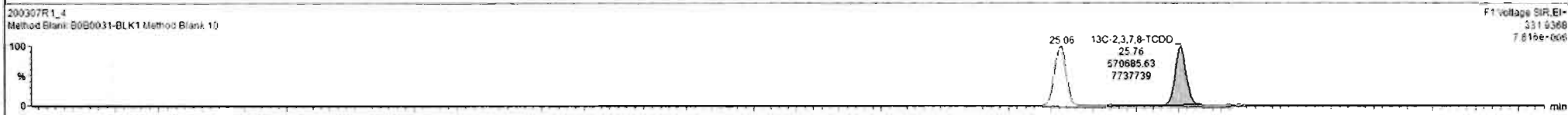
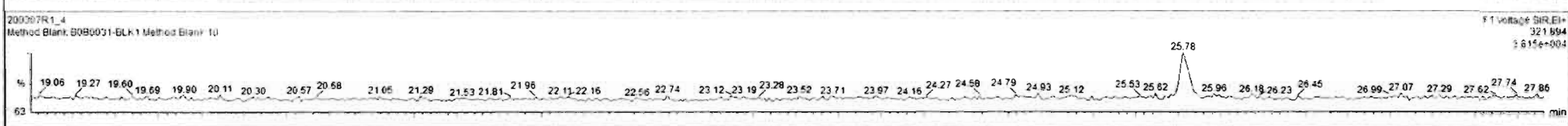
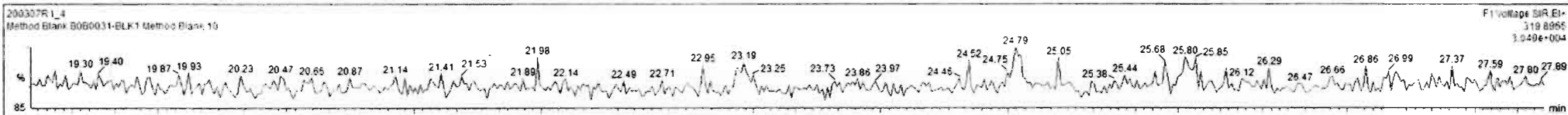
TargetLynx - 200307R1_4.qtd - [Chromatogram]

File Edit View Display Processing Window Help

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

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

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



Dataset: Untitled

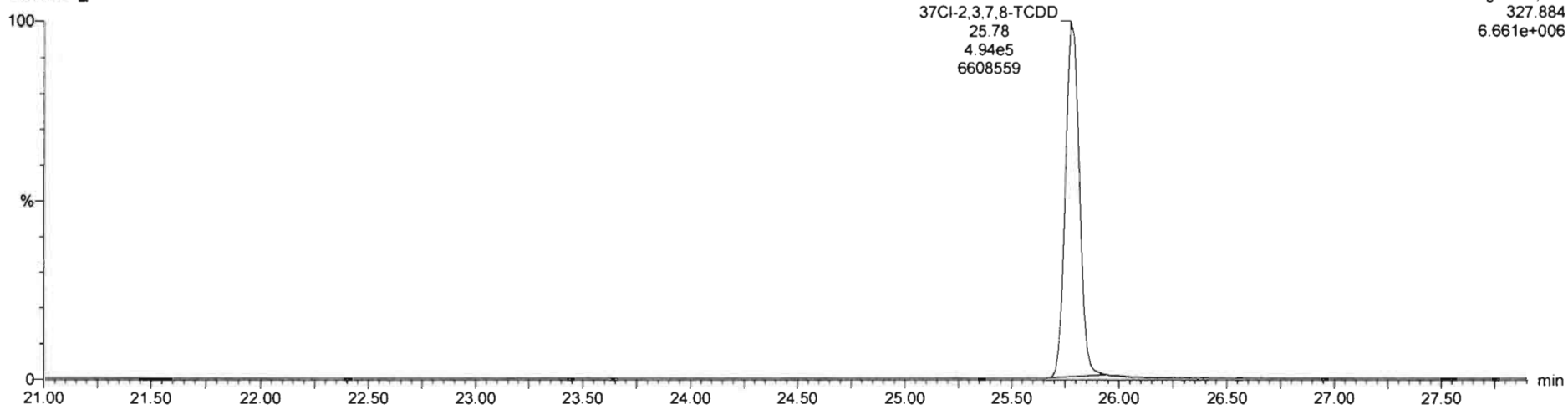
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Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

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

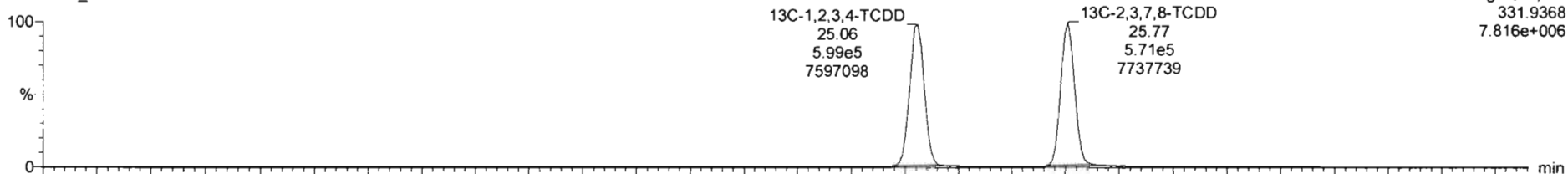
37Cl-2,3,7,8-TCDD

200307R1_4

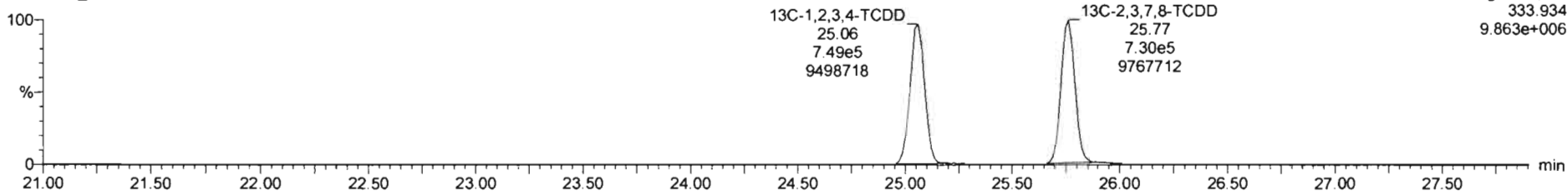


13C-1,2,3,4-TCDD

200307R1_4



200307R1_4



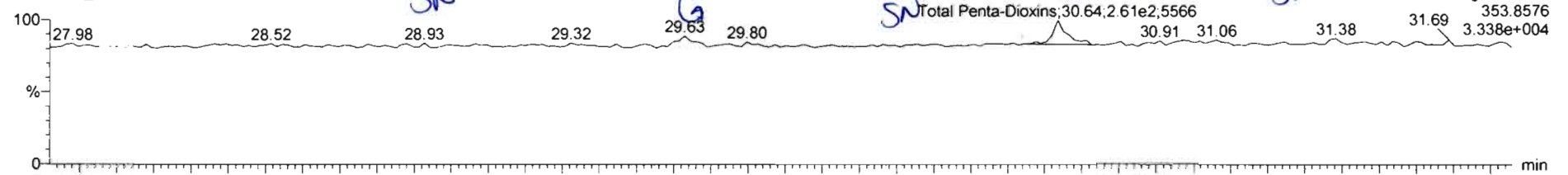
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Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

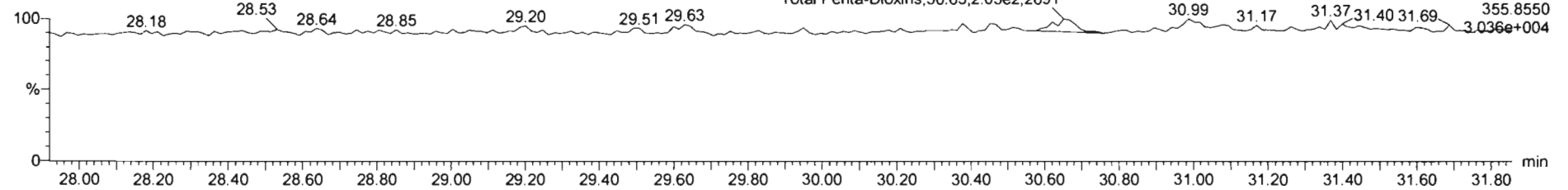
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1,2,3,7,8-PeCDD

200307R1_4

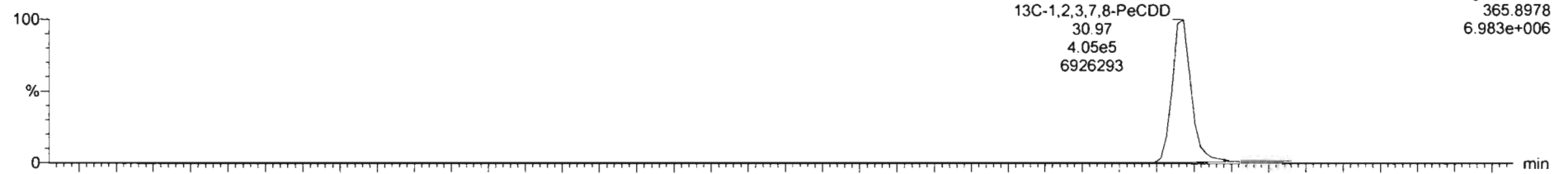


200307R1_4

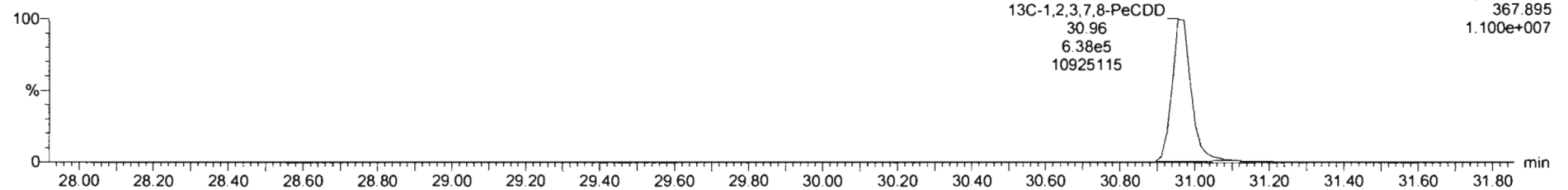


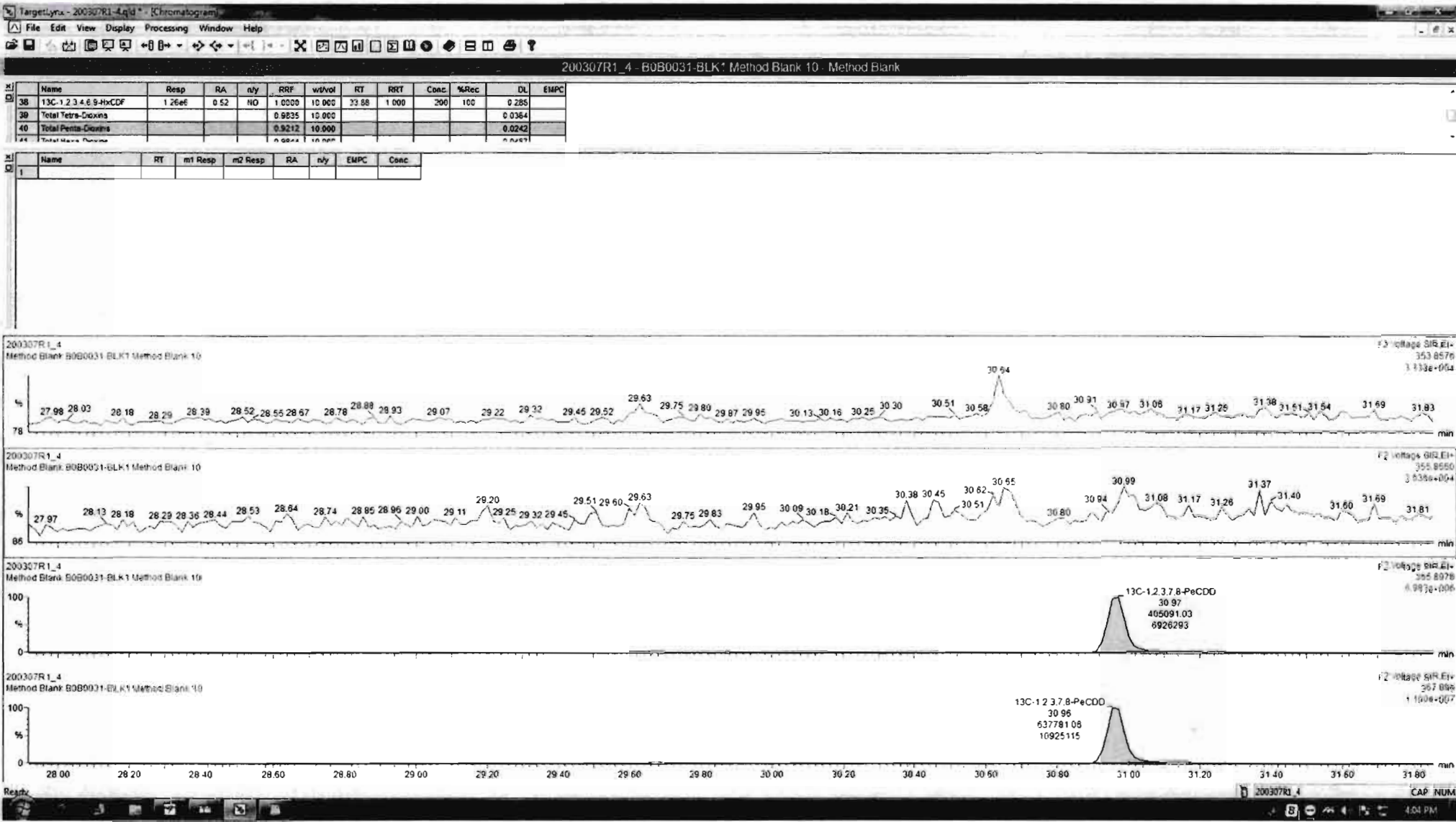
13C-1,2,3,7,8-PeCDD

200307R1_4



200307R1_4





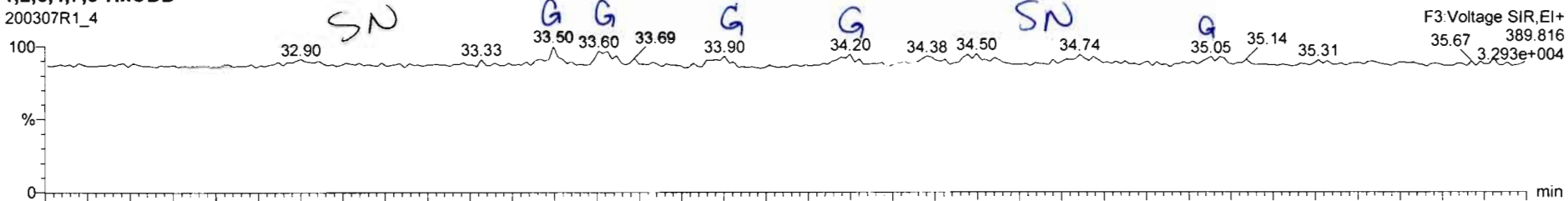
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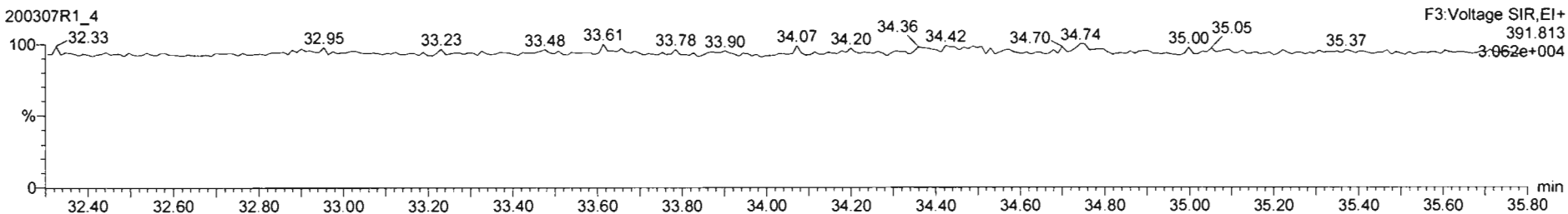
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1,2,3,4,7,8-HxCDD

200307R1_4

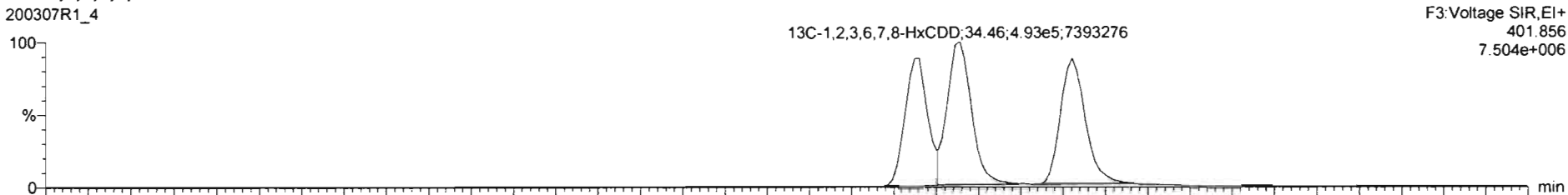


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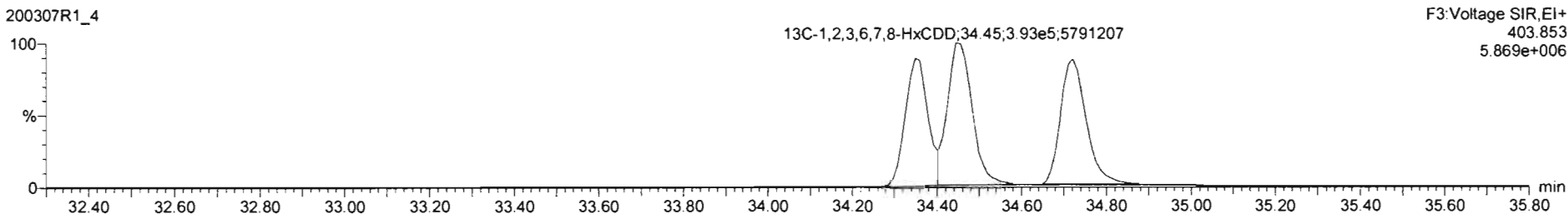


13C-1,2,3,4,7,8-HxCDD

200307R1_4



200307R1_4



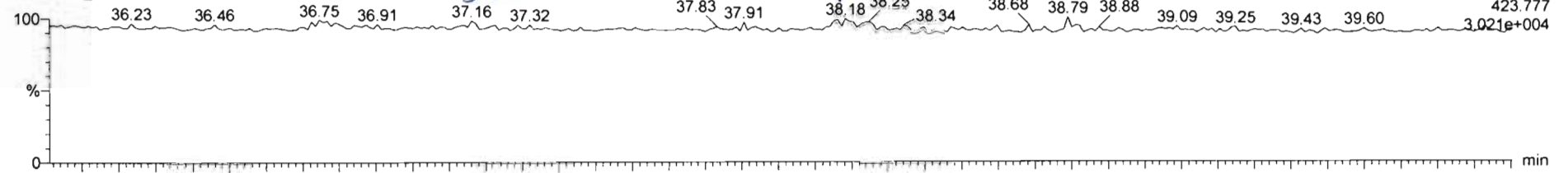
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Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

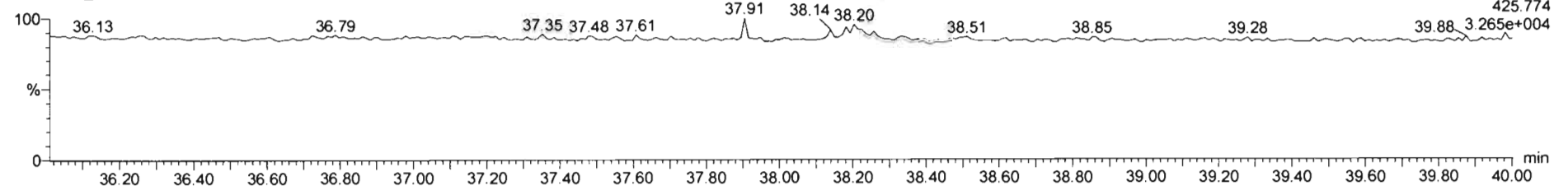
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1,2,3,4,6,7,8-HpCDD

200307R1_4

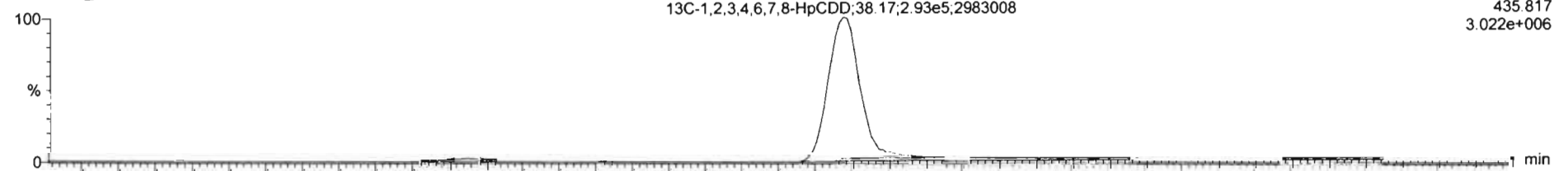


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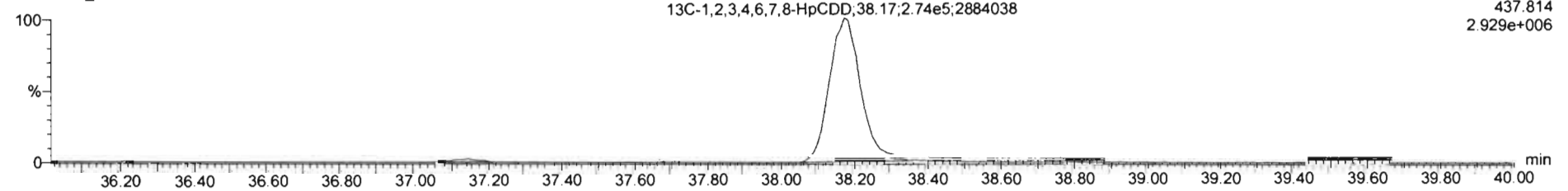


13C-1,2,3,4,6,7,8-HpCDD

200307R1_4



200307R1_4



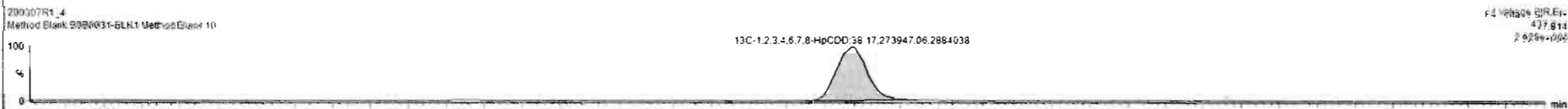
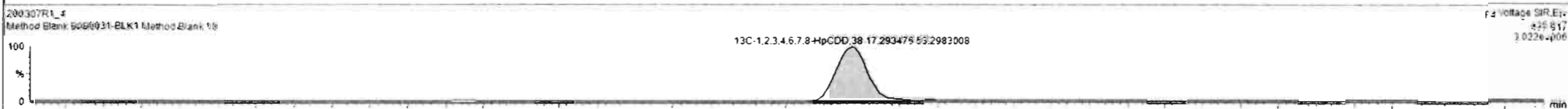
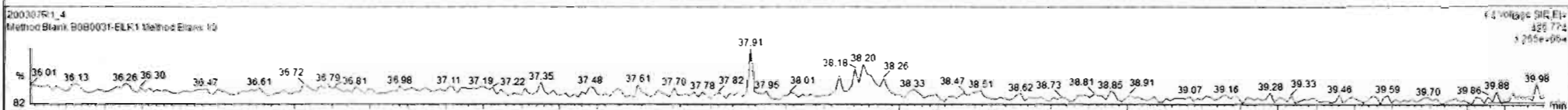
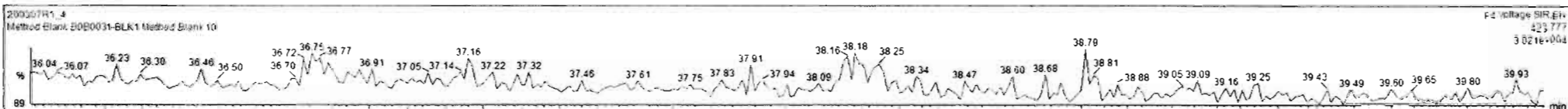
TargetLynx - 200307R1_4.qtd - (Chromatogram)

File Edit View Display Processing Window Help

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

#	Name	Resp	RA	n/y	RRF	w/mol	RT	RRT	Conc	%Rec	DL	EMPC
41	Total Hexa-Dioxins				0.9844	10.000					0.0487	
42	Total Hepta-Dioxins				1.9061	10.000					0.0956	
43	Total Tetra-Furans				0.9154	10.000					0.0211	

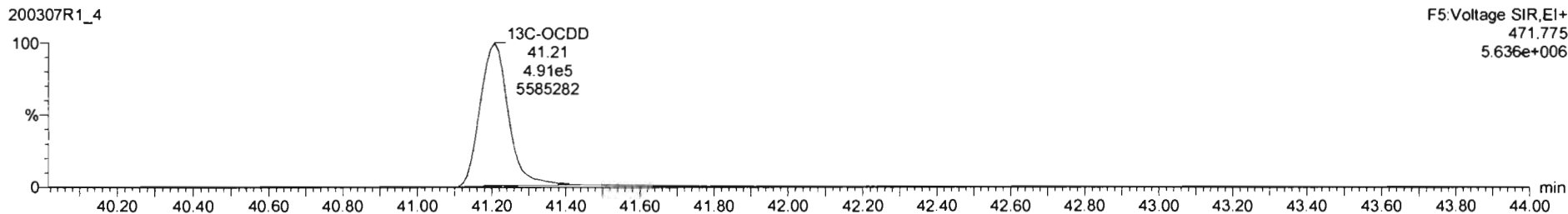
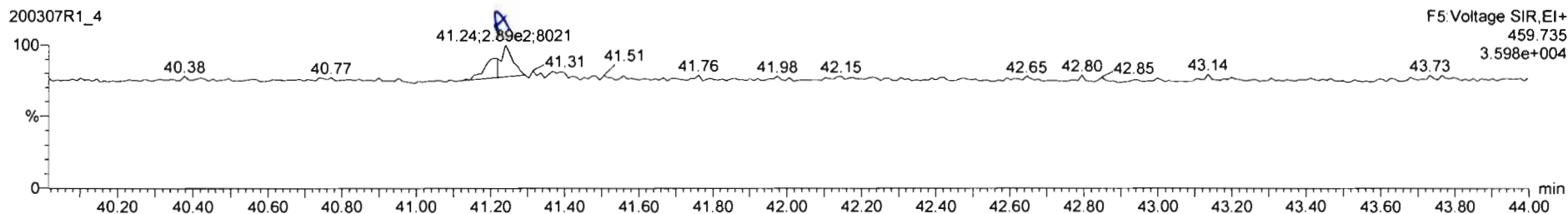
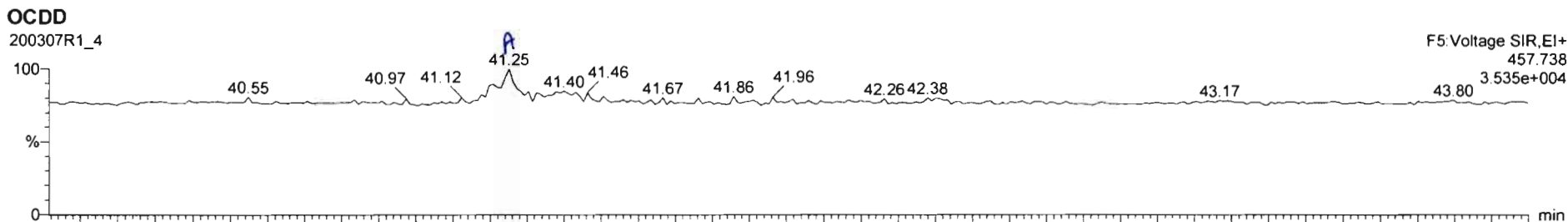
#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1								



Dataset: Untitled

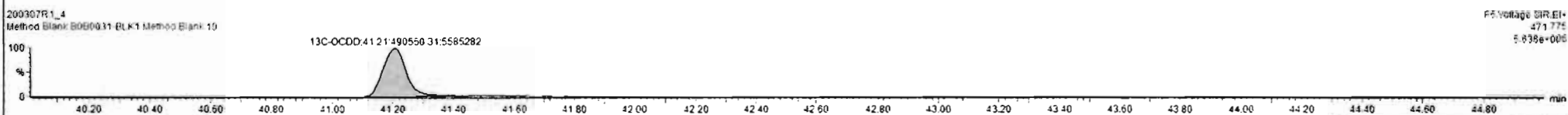
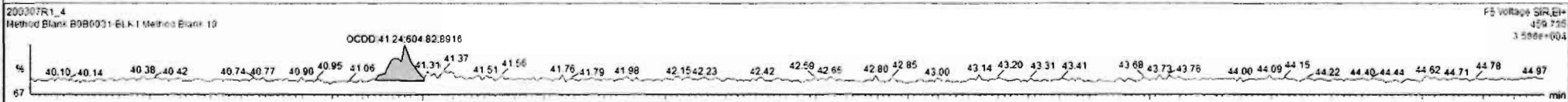
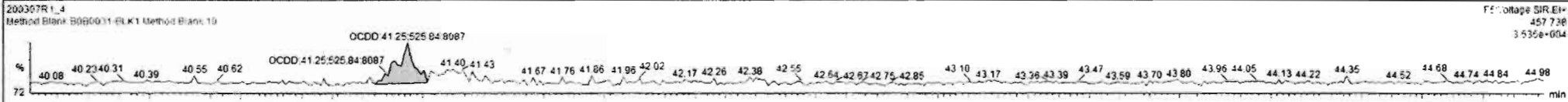
Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time
Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

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



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

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

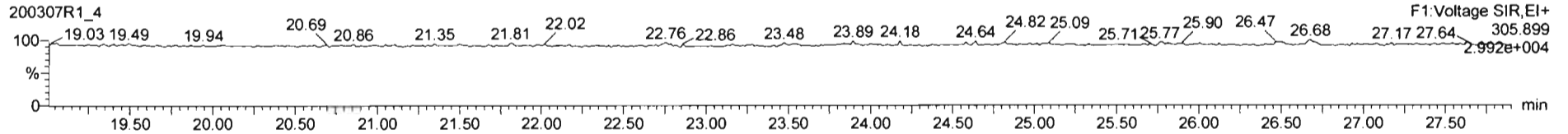
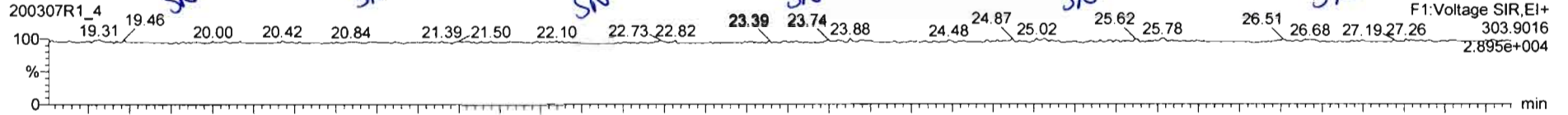


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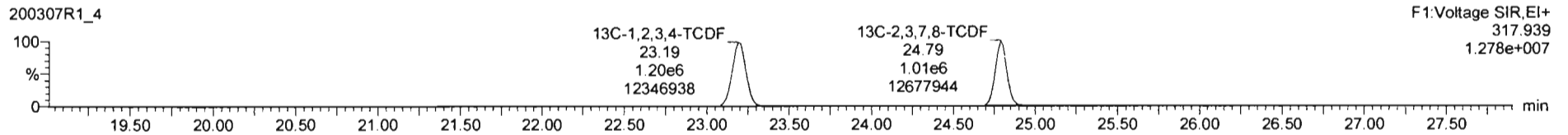
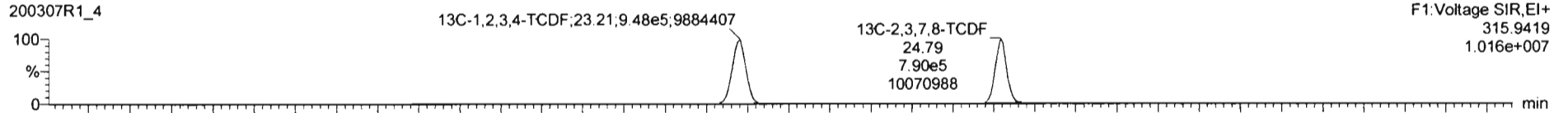
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Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

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

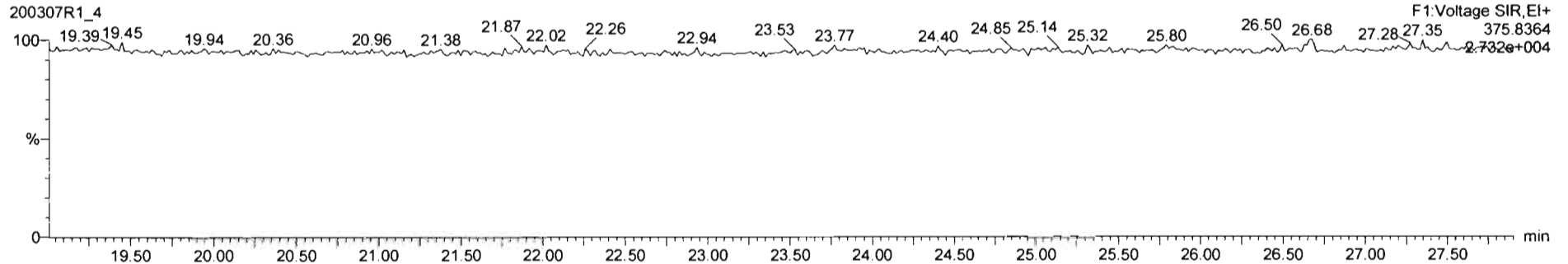
2,3,7,8-TCDF



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



DPE1



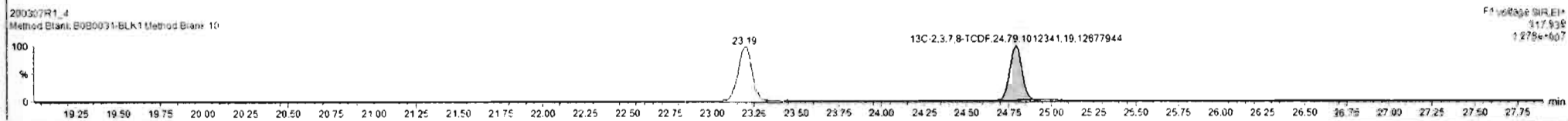
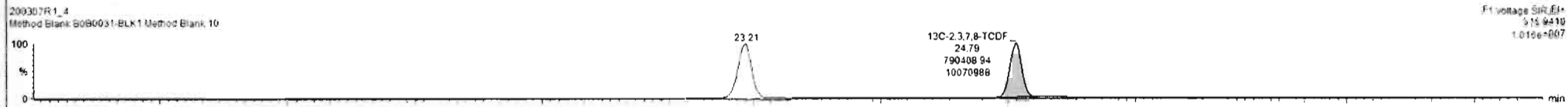
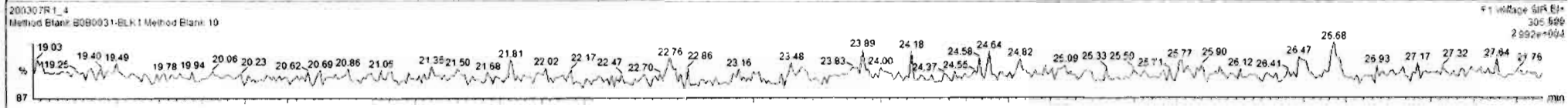
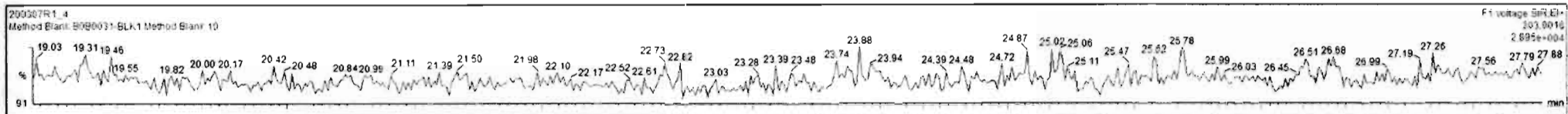
TargetLynx - 200307R1_4.qld * (Chromatogram)

File Edit View Display Processing Window Help

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

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

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



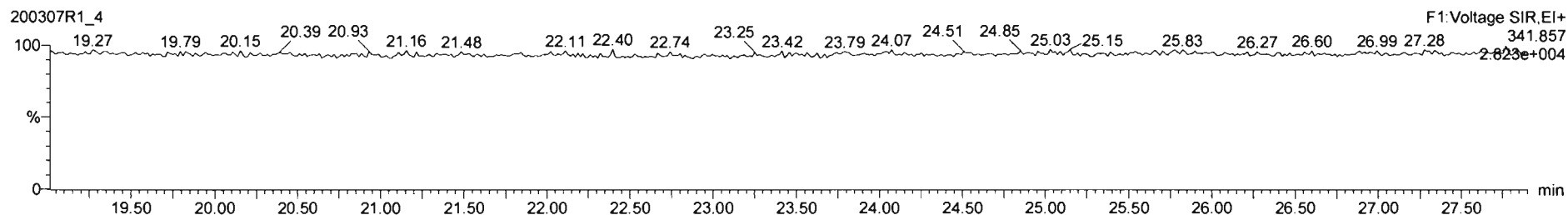
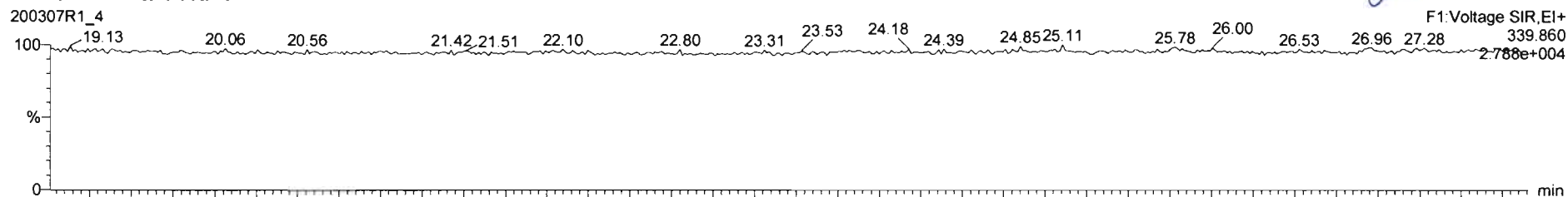
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Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time

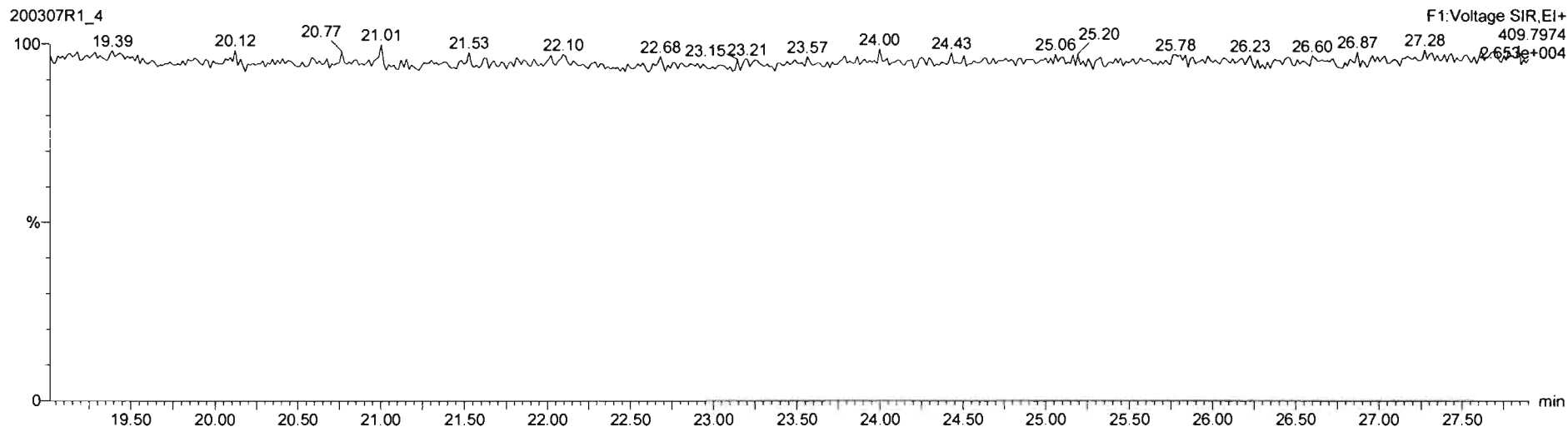
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Name: 200307R1_4, Date: 07-Mar-2020, Time: 12:06:17, ID: B0B0031-BLK1 Method Blank 10, Description: Method Blank

1st Func. Penta-Furans



DPE6



Dataset: Untitled

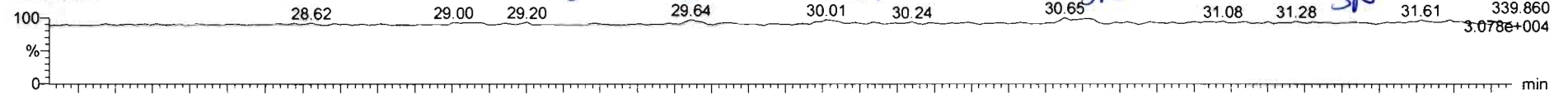
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Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

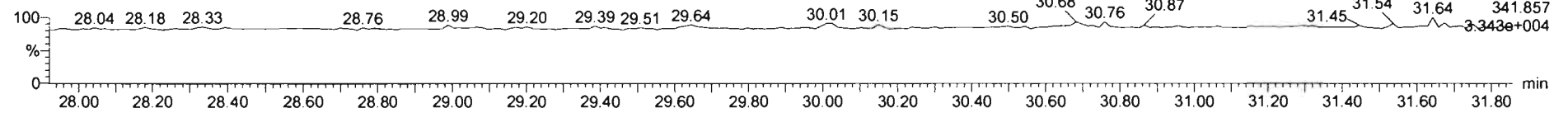
Name: 200307R1_4, Date: 07-Mar-2020, Time: 12:06:17, ID: B0B0031-BLK1 Method Blank 10, Description: Method Blank

1,2,3,7,8-PeCDF

200307R1_4

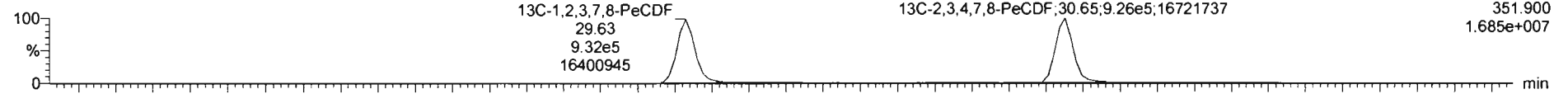


200307R1_4

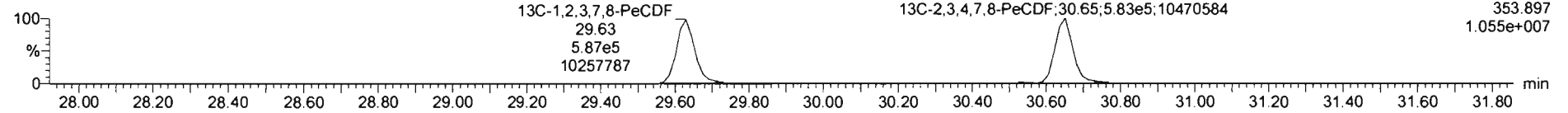


13C-1,2,3,7,8-PeCDF

200307R1_4

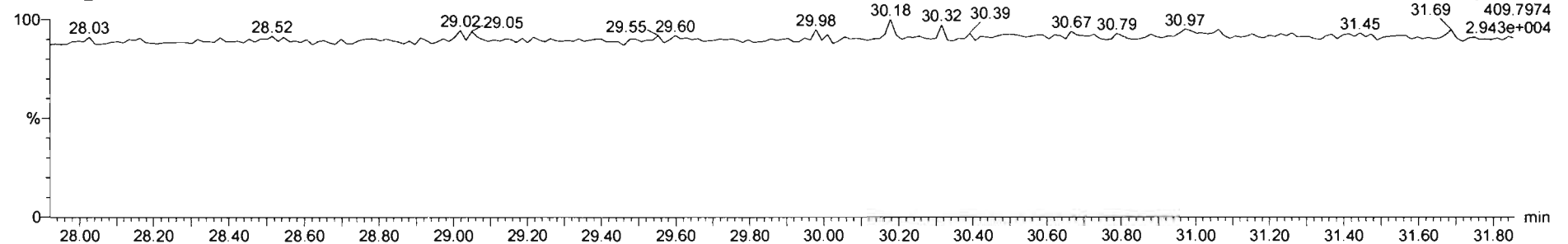


200307R1_4



DPE2

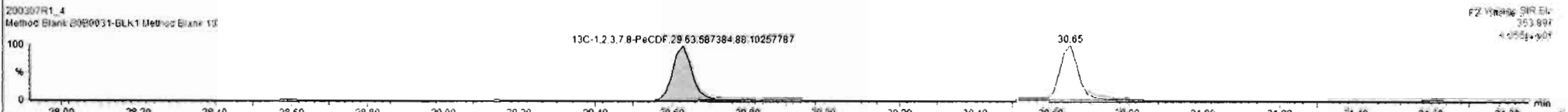
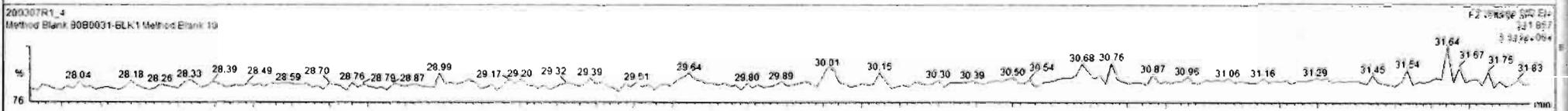
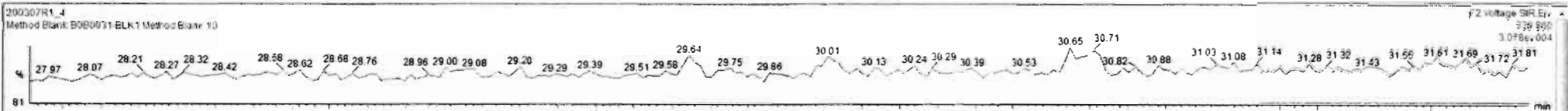
200307R1_4



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

Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Coec	%Rec	DL	EMPC
45 Total Penta-Furans				0.9594	10.000					0.0198	
46 Total Hexa-Furans				1.0920	10.000					0.0294	
47 Total Hepta-Furans				1.0483	10.000					0.0552	

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

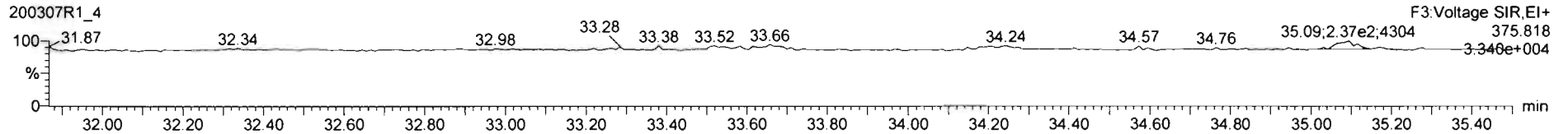
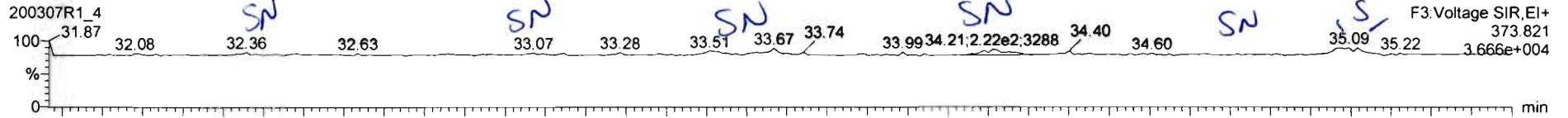


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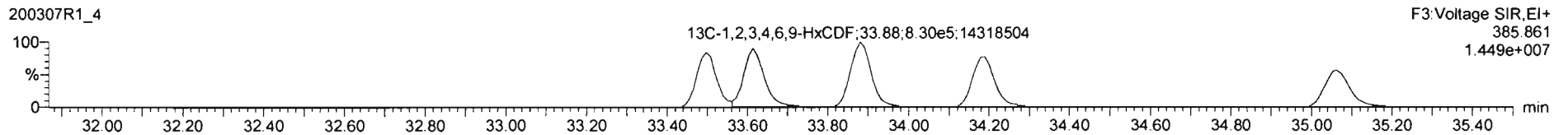
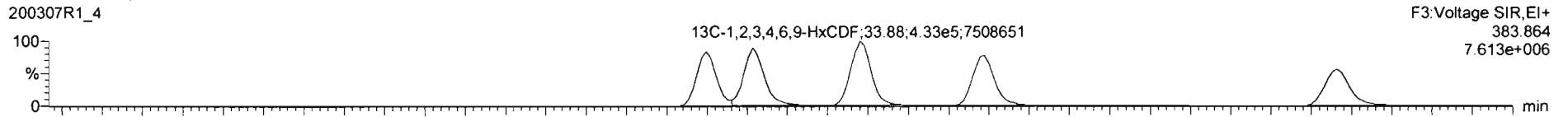
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Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

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

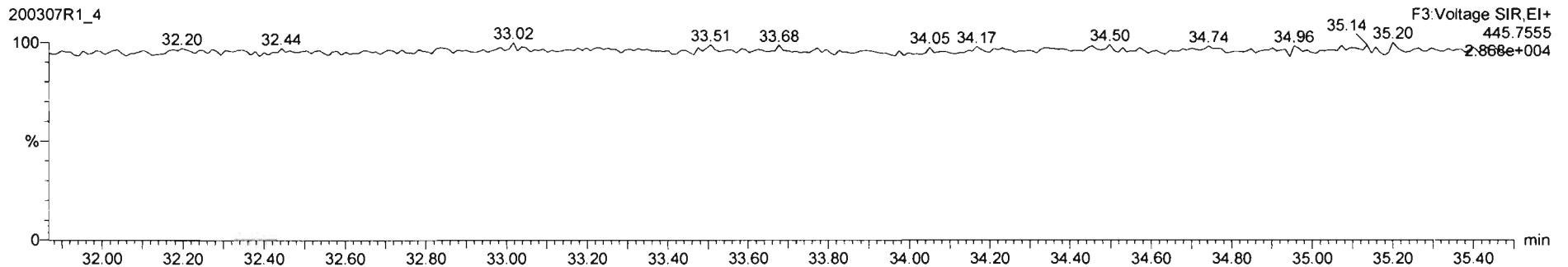
1,2,3,4,7,8-HxCDF



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

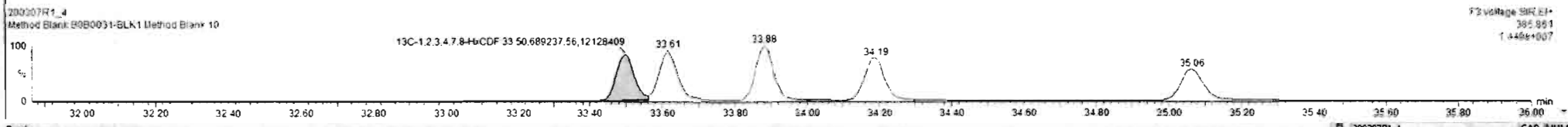
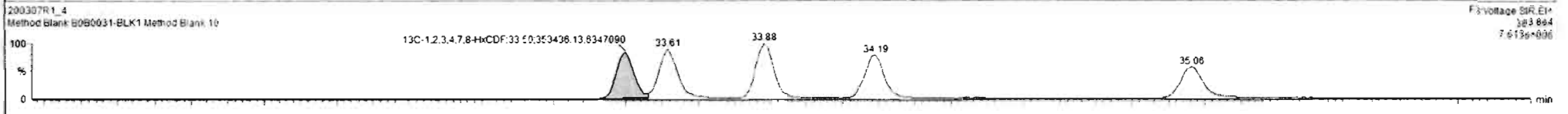
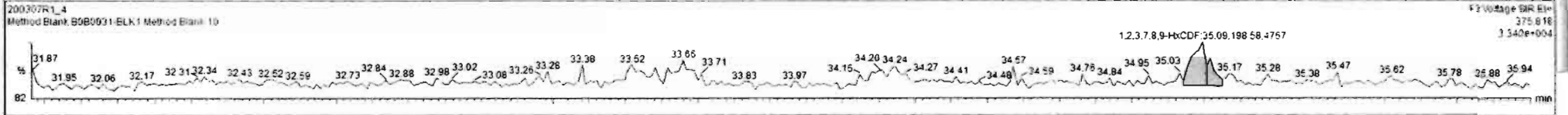
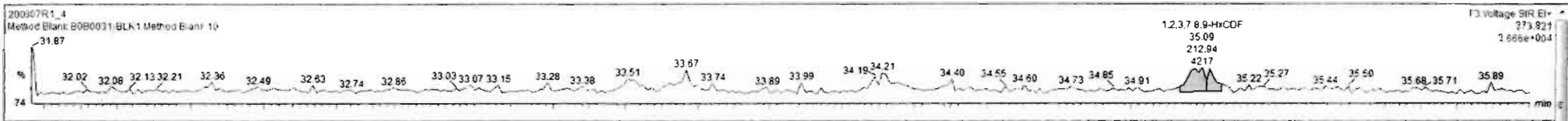


DPE3



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

#	Name	RT	m1 Resp	m2 Resp	RA	n1y	EMPC	Conc
1	Total Hexa-Furans	35.12	9.230e1	7.595e1	1.28	ND	0.030737	0.00000
2	1,2,3,7,8,9-HxCDF	35.09	2.129e2	1.566e2	1.07	ND	0.068259	0.088259

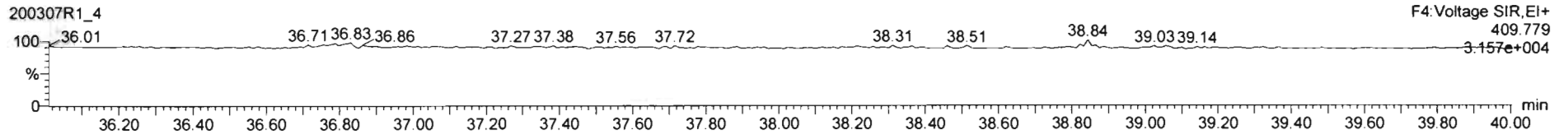
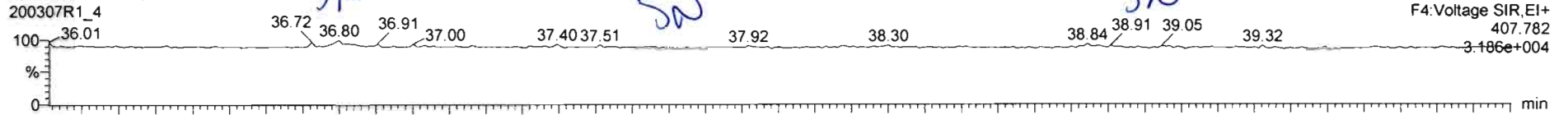


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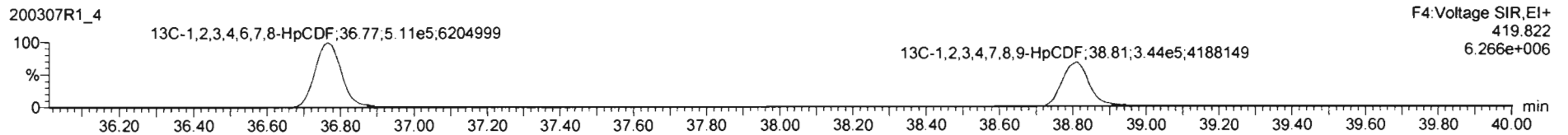
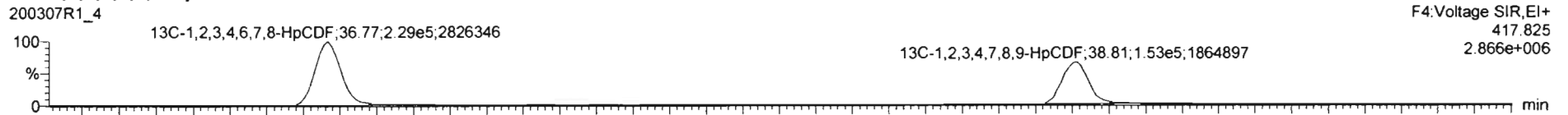
Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time
Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

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

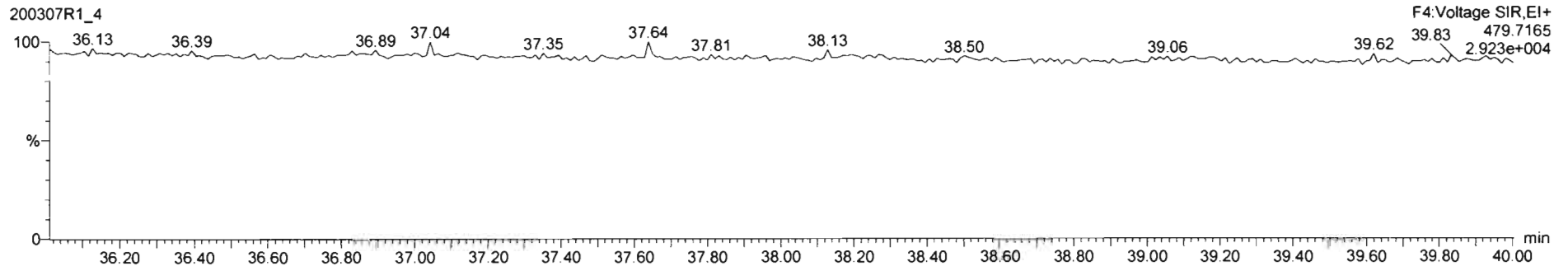
1,2,3,4,6,7,8-HpCDF



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



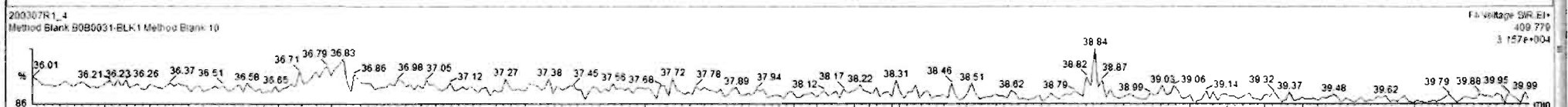
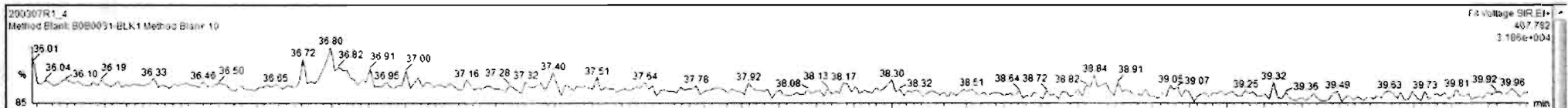
DPE4



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

Name	Resp	RA	n/y	RRF	wtdol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9534	10.000					0.0196	
46 Total Hexa-Furans				1.0920	10.000			0.0884		0.0294	0.119
47 Total Hepta-Furans				1.8483	10.000					0.0552	

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

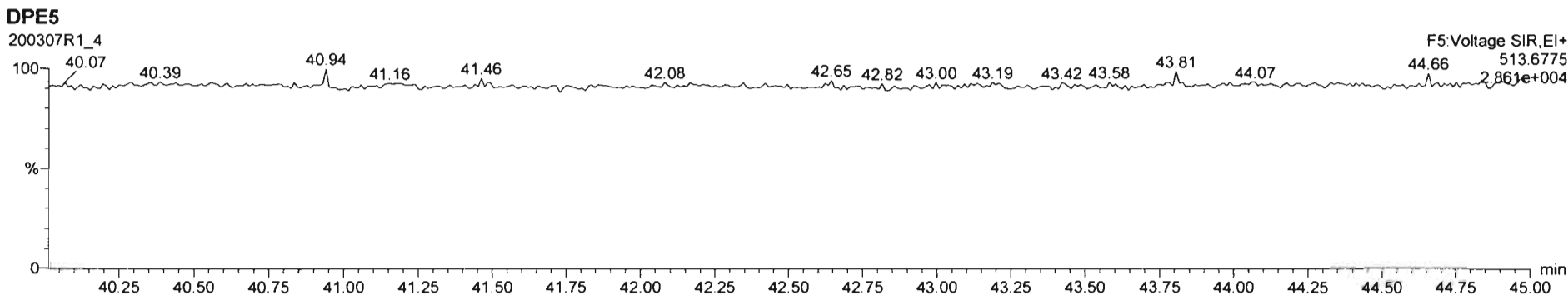
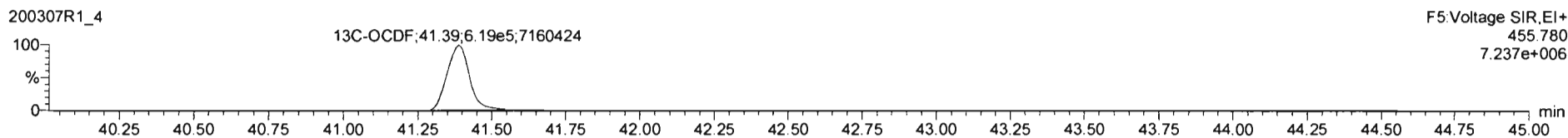
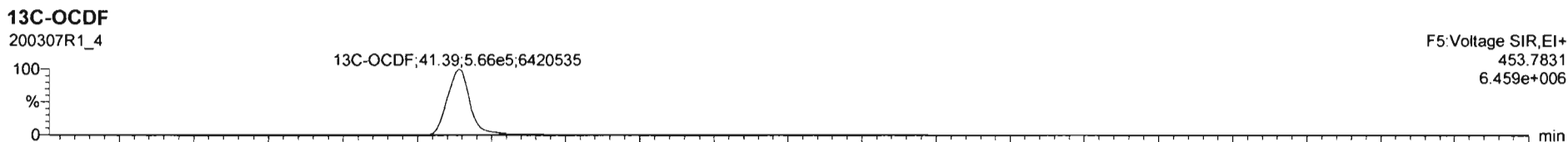
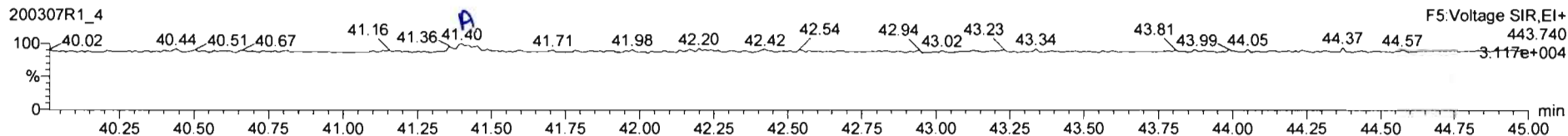
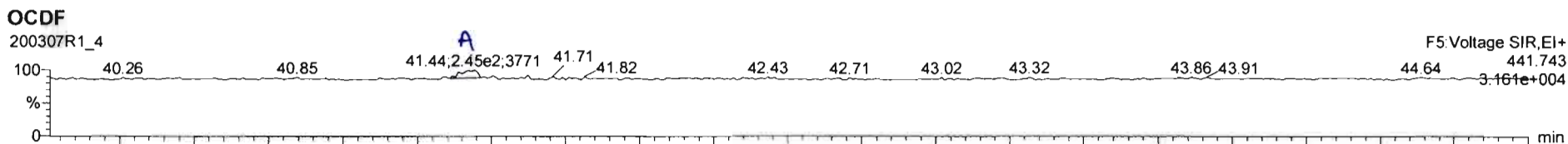


Custom Reporting: Select reports to generate

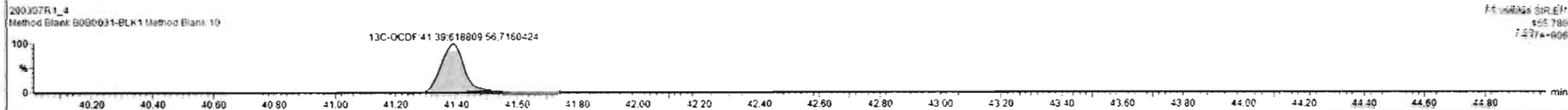
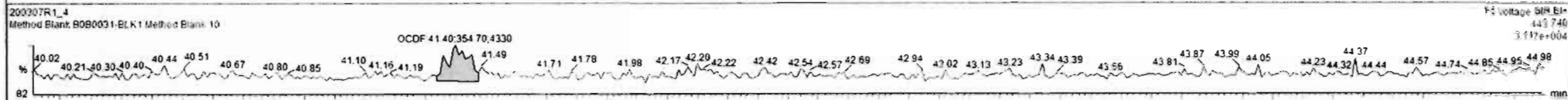
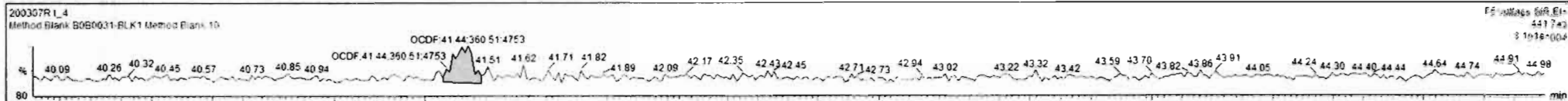
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Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

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



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

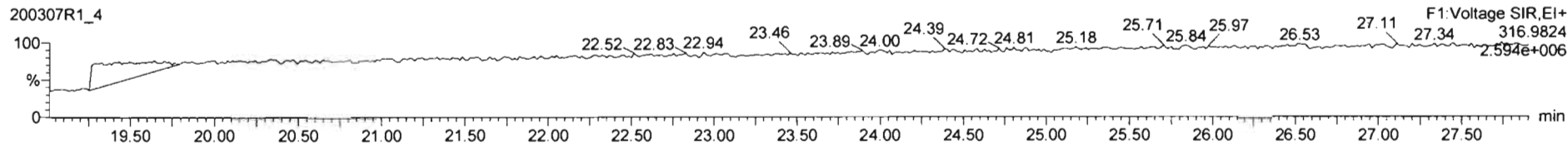


Dataset: Untitled

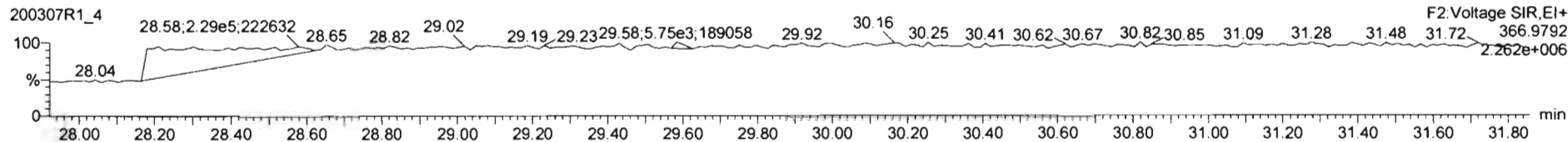
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Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

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

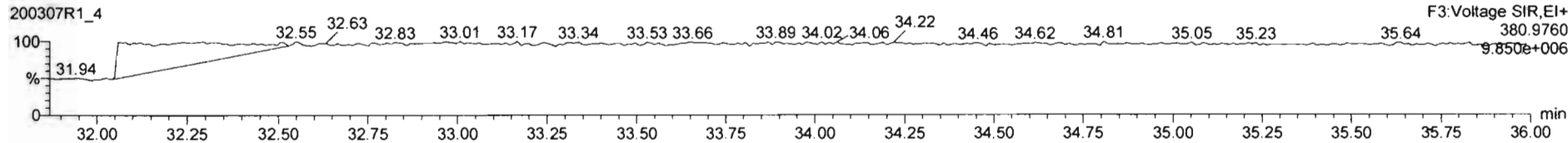
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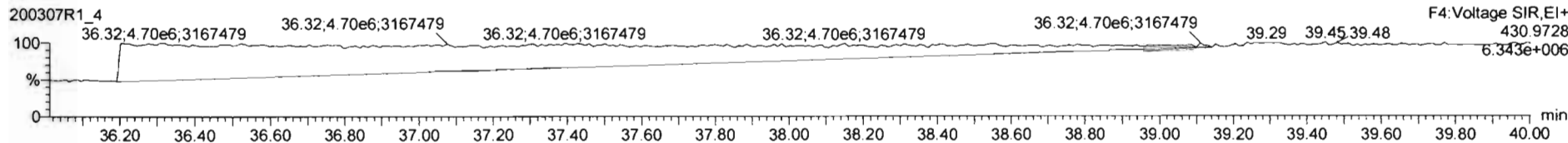
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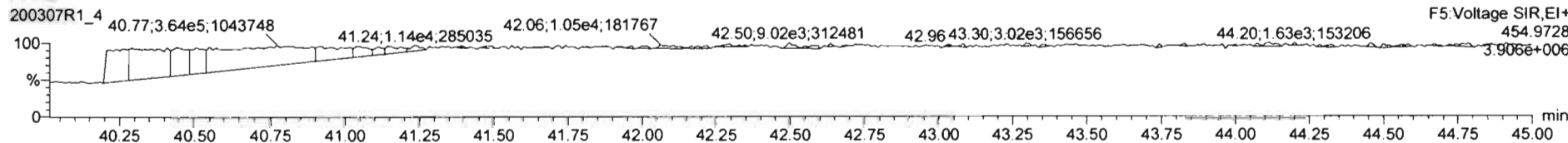
PFK3



PFK4



PFK5



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

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

GRB 03/10/2020

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

C703/20/2020

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

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

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

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

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

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

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

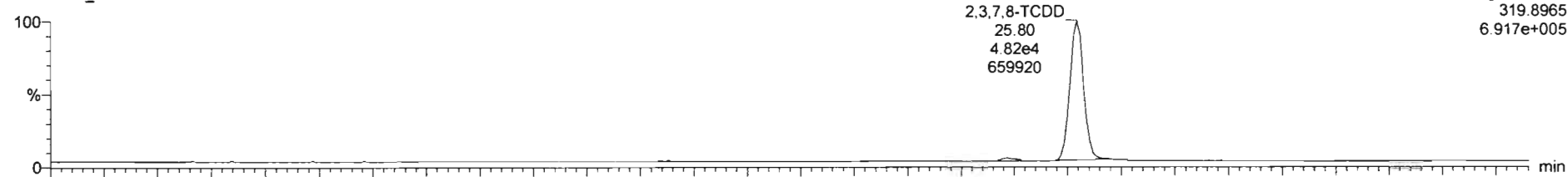
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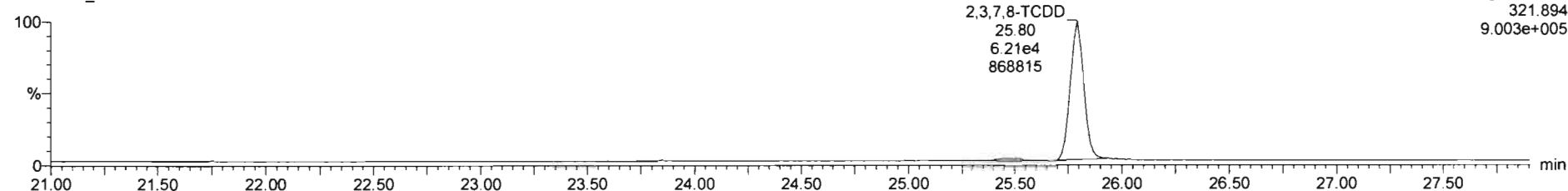
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2,3,7,8-TCDD

200307R1_2

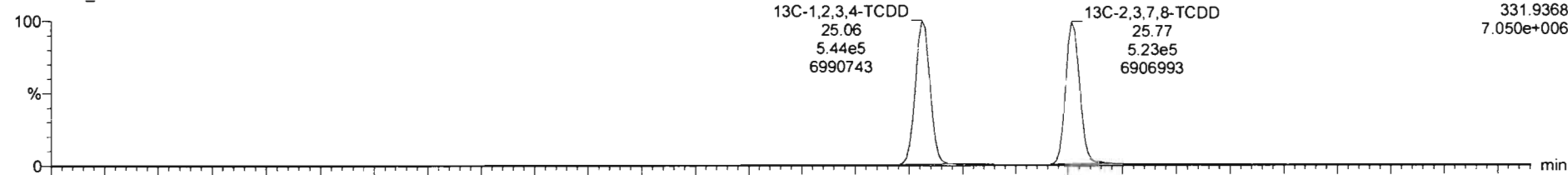


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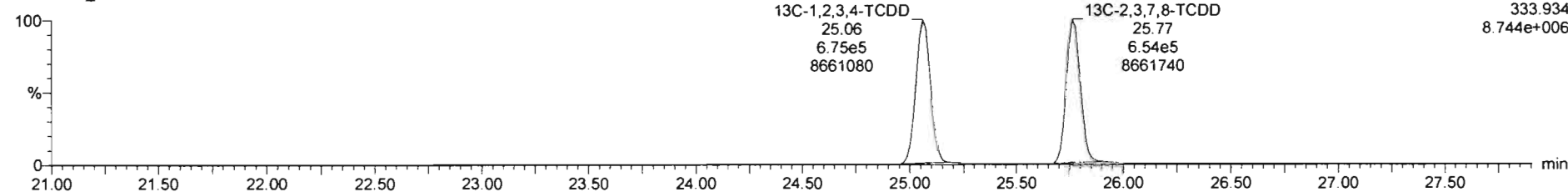


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200307R1_2



200307R1_2



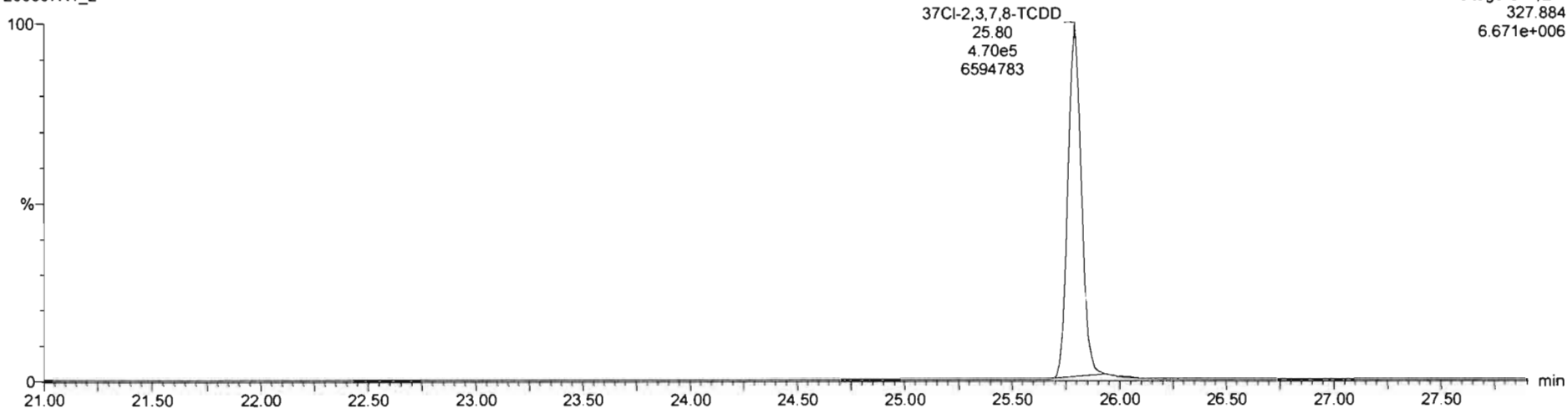
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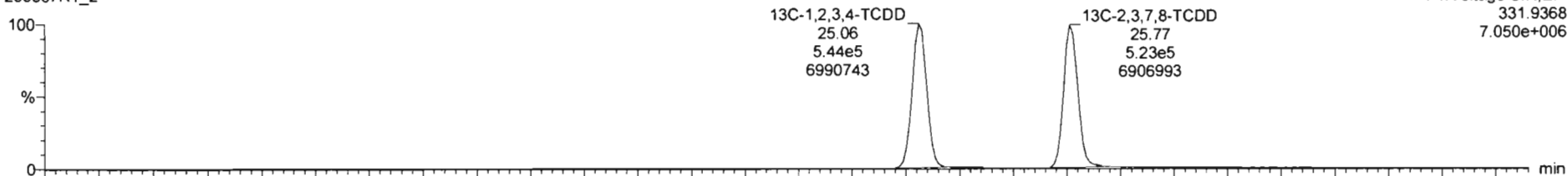
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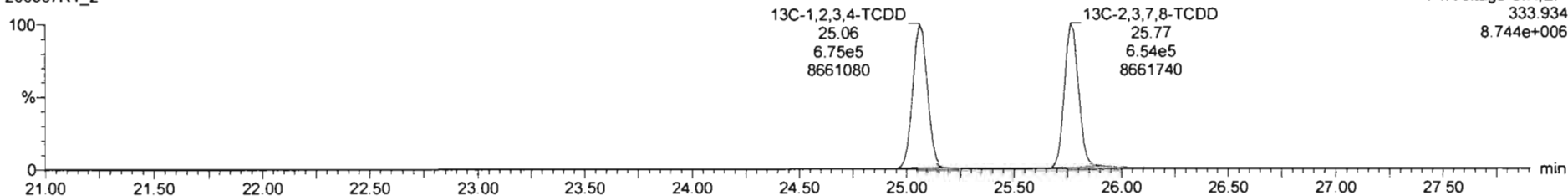


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200307R1_2



200307R1_2



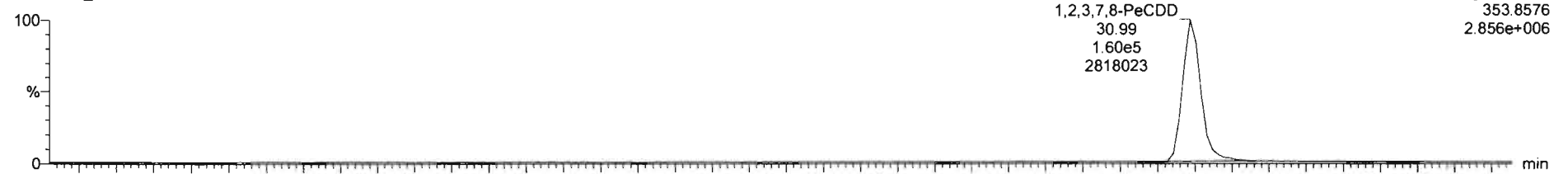
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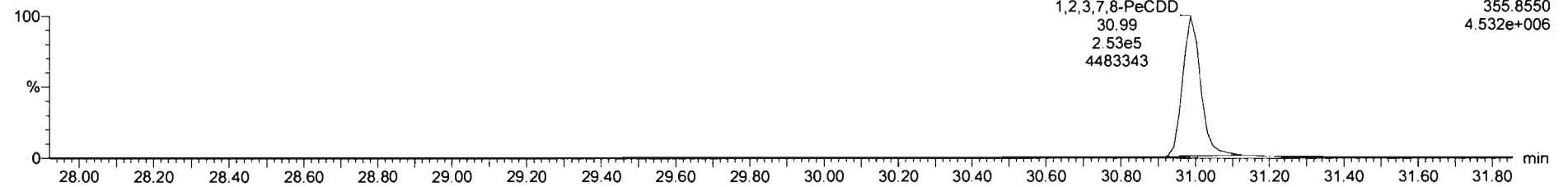
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1,2,3,7,8-PeCDD

200307R1_2

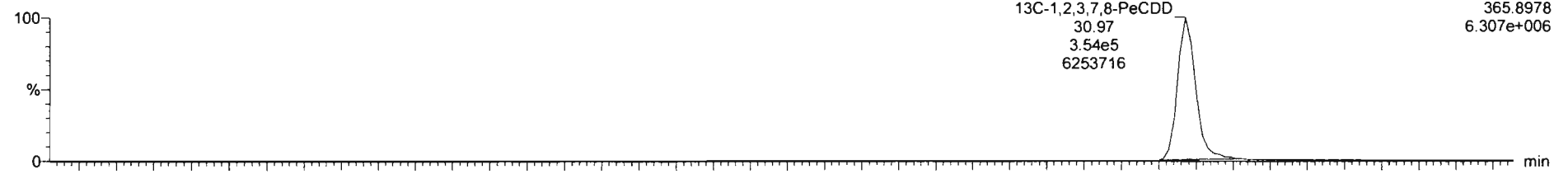


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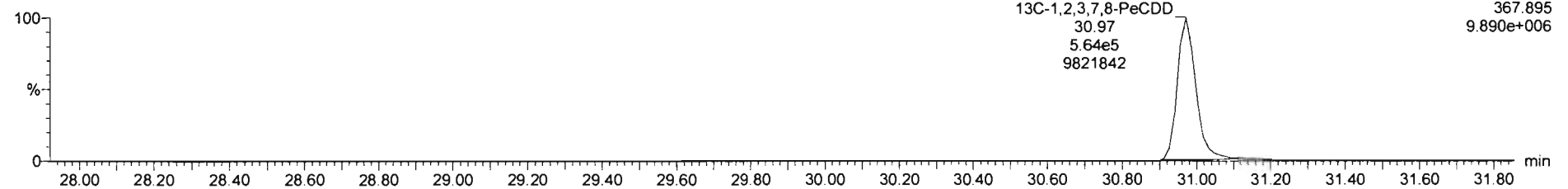


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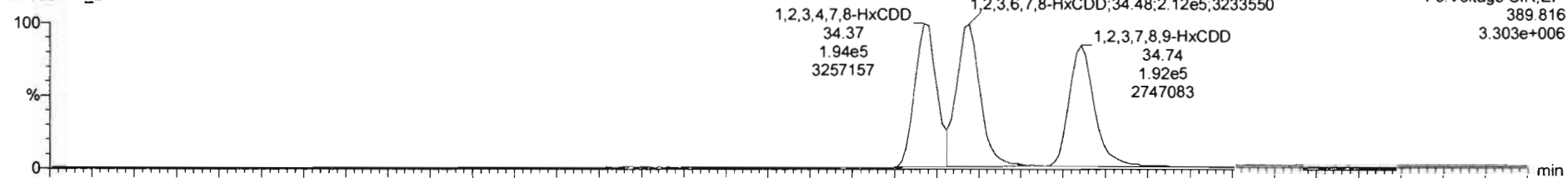
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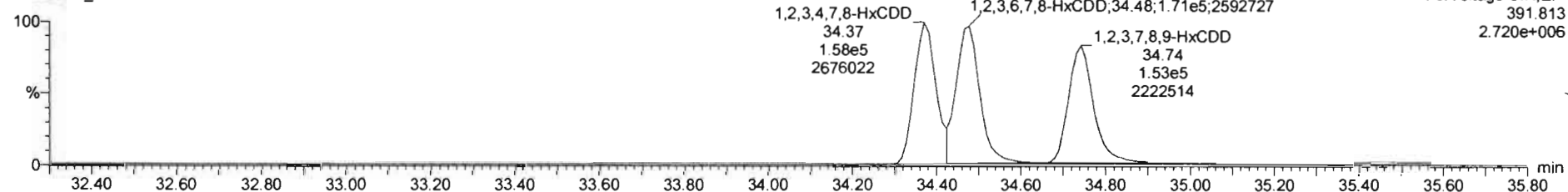
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1,2,3,4,7,8-HxCDD

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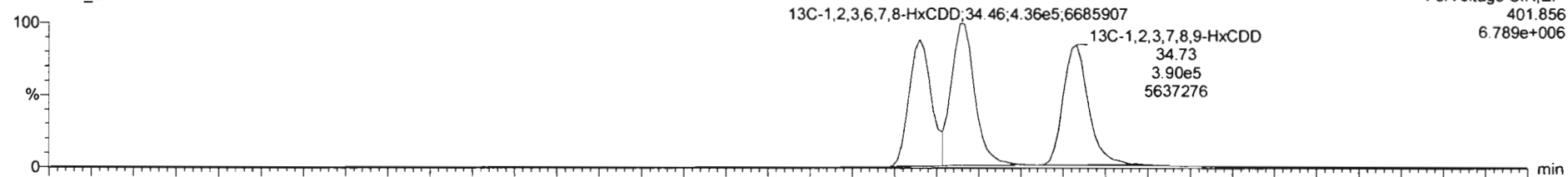


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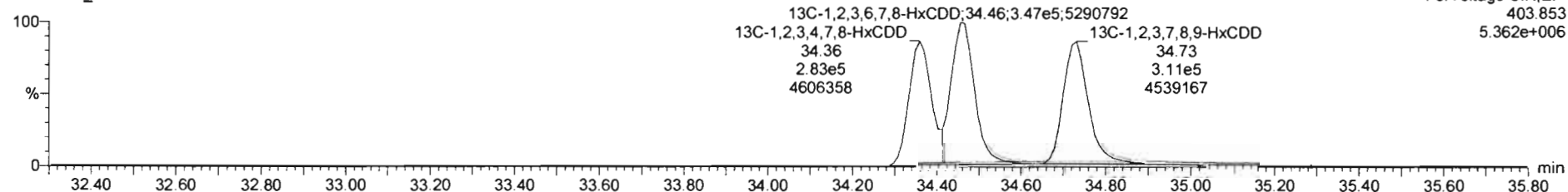


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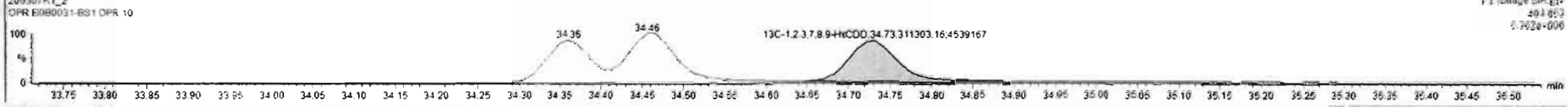
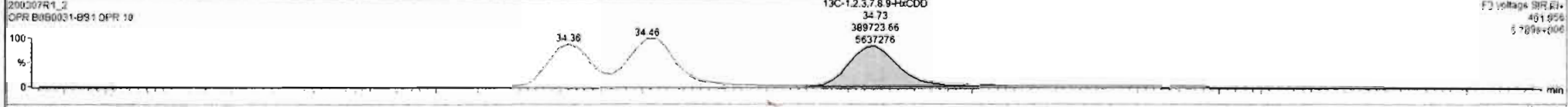
200307R1_2



200307R1_2



Name	Resp	RA	ny	RRF	wVvol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.10e5	0.78	NO	0.98	10.000	25.60	1.001	19.1		0.121	19.1
2 1,2,3,4,7,8-PeCDD	4.13e5	0.64	NO	0.92	10.000	30.96	1.000	97.6		0.230	97.6
3 1,2,3,4,7,8-HxCDD	3.52e5	1.23	NO	1.13	10.000	34.37	1.000	96.1		0.236	96.1
4 1,2,3,6,7,8-HxCDD	3.85e5	1.24	NO	0.96	10.000	34.48	1.001	99.4		0.240	99.4
5 1,2,3,7,8,9-HxCDD	3.41e5	1.28	NO	0.97	10.000	34.74	1.000	101		0.289	101
6 1,2,3,4,6,7,8-HpCDD	2.25e5	1.03	NO	1.01	10.000	38.19	1.000	96.3		0.451	96.3
7 OCDD	4.15e5	0.88	NO	1.05	10.000	41.23	1.000	189		0.380	189
8 2,3,7,8-TCDF	1.45e5	0.77	NO	0.92	10.000	24.62	1.001	19.0		0.112	19.0
9 1,2,3,7,8-PeCDF	6.43e5	1.55	NO	0.96	10.000	29.65	1.000	97.3		0.165	97.3
10 2,3,4,7,8-PeCDF	6.69e5	1.54	NO	1.00	10.000	30.67	1.000	97.4		0.149	97.4
11 1,2,3,4,7,8-HxCDF	4.47e5	1.21	NO	1.04	10.000	33.52	1.000	96.1		0.192	96.1
12 1,2,3,6,7,8-HxCDF	5.20e5	1.23	NO	1.01	10.000	33.64	1.000	98.3		0.184	98.3
13 2,3,4,6,7,8-HxCDF	4.91e5	1.22	NO	1.08	10.000	34.21	1.000	96.7		0.199	96.7
14 1,2,3,7,8,9-HxCDF	3.77e5	1.26	NO	1.03	10.000	35.08	1.000	95.3		0.310	95.3
15 1,2,3,4,6,7,8-HpCDF	3.24e5	0.99	NO	1.05	10.000	36.79	1.001	96.4		0.387	96.4
16 1,2,3,4,7,8,9-HpCDF	2.50e5	0.98	NO	1.21	10.000	38.83	1.001	96.5		0.484	96.5
17 OCDF	4.61e5	0.89	NO	0.95	10.000	41.41	1.000	190		0.390	190
18 13C-2,3,7,8-TCDD	1.18e6	0.80	NO	1.18	10.000	25.78	1.028	163	81.5	0.215	
19 13C-1,2,3,7,8-PeCDD	9.18e5	0.63	NO	0.86	10.000	30.97	1.236	174	87.1	0.287	
20 13C-1,2,3,4,7,8-HxCDD	6.47e5	1.28	NO	0.75	10.000	34.36	1.014	156	76.0	0.338	
21 13C-1,2,3,6,7,8-HxCDD	7.83e5	1.26	NO	0.93	10.000	34.46	1.017	154	77.0	0.275	



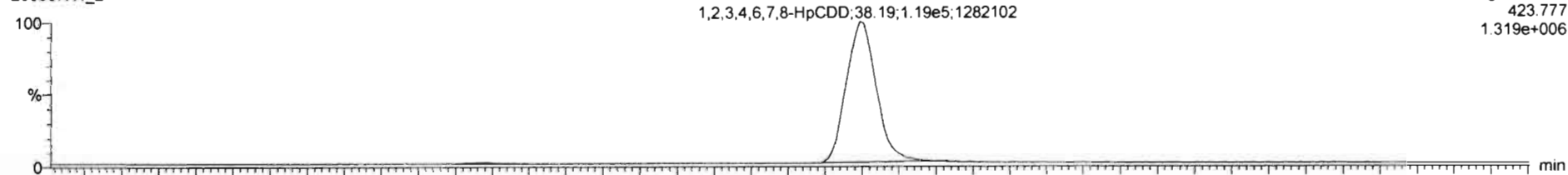
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Name: 200307R1_2, Date: 07-Mar-2020, Time: 10:32:33, ID: B0B0031-BS1 OPR 10, Description: OPR

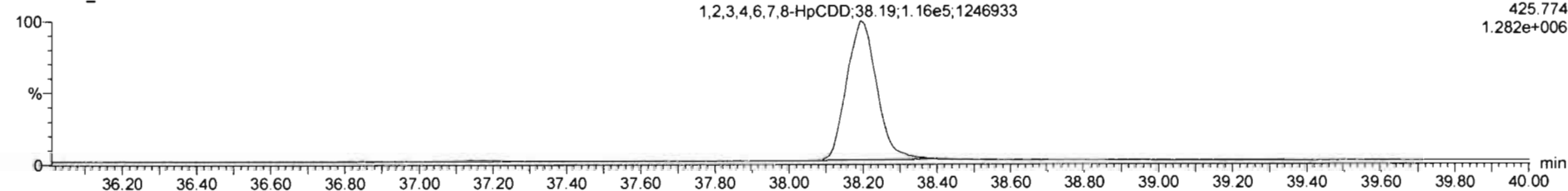
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200307R1_2



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1.319e+006

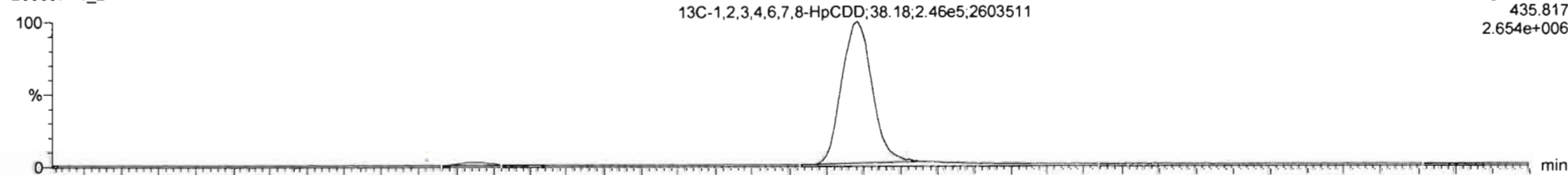
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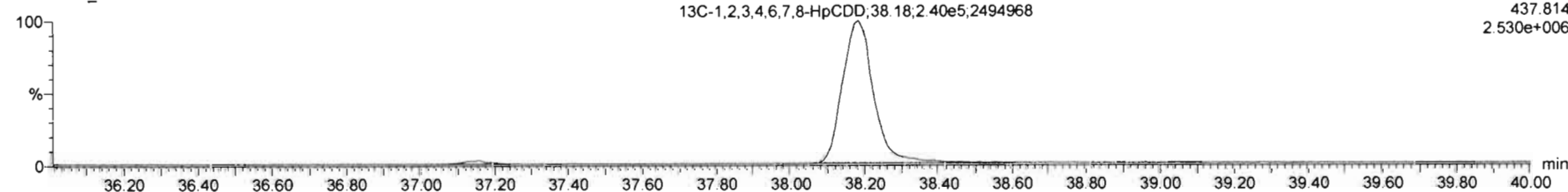
13C-1,2,3,4,6,7,8-HpCDD

200307R1_2



F4: Voltage SIR, EI+
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200307R1_2



F4: Voltage SIR, EI+
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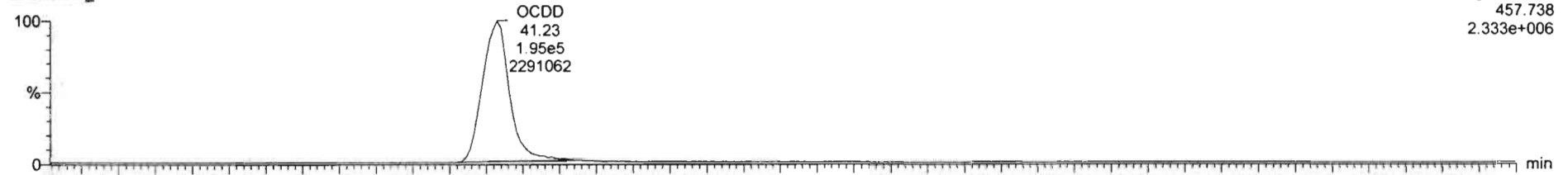
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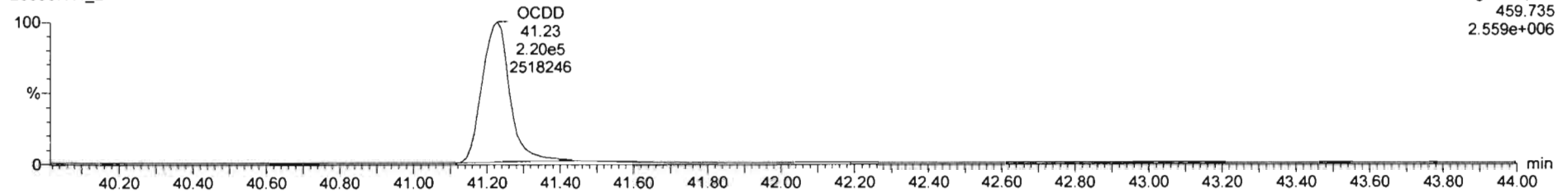
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OCDD

200307R1_2

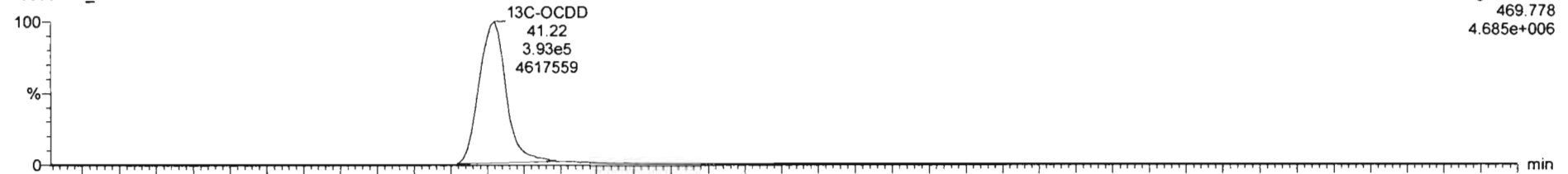


200307R1_2

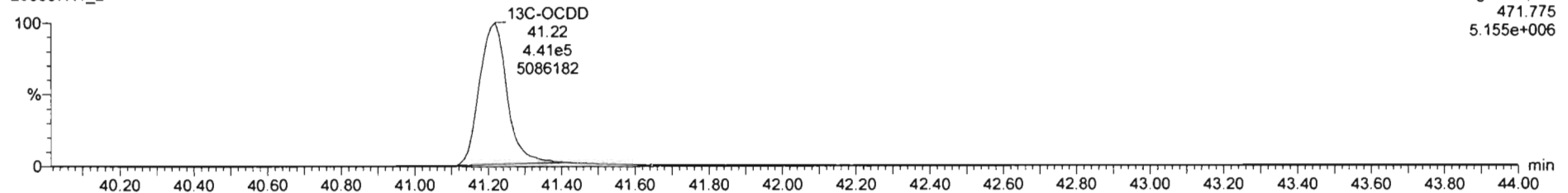


13C-OCDD

200307R1_2



200307R1_2



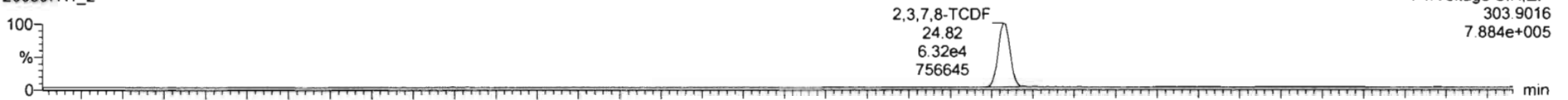
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Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

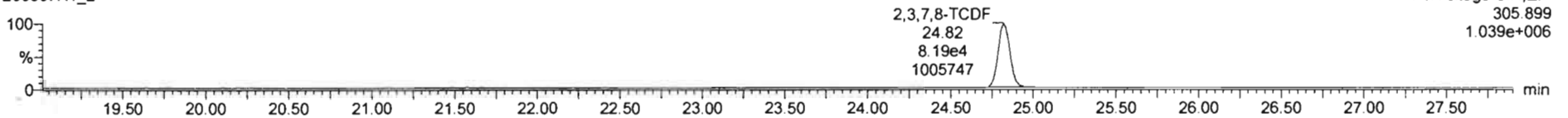
Name: 200307R1_2, Date: 07-Mar-2020, Time: 10:32:33, ID: B0B0031-BS1 OPR 10, Description: OPR

2,3,7,8-TCDF

200307R1_2

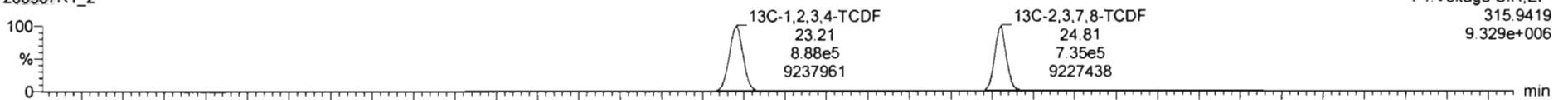


200307R1_2

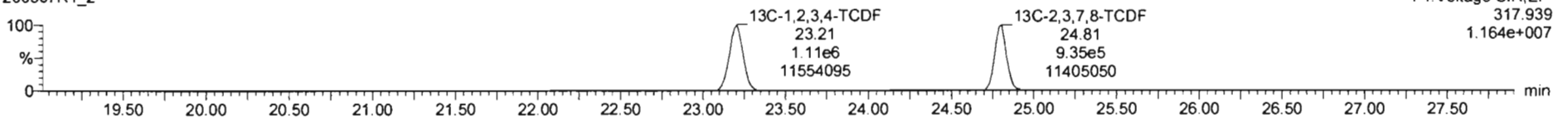


13C-2,3,7,8-TCDF

200307R1_2

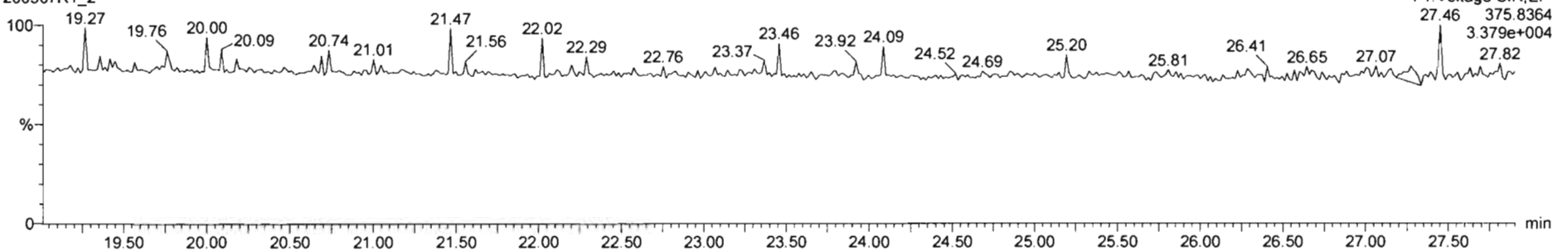


200307R1_2



DPE1

200307R1_2



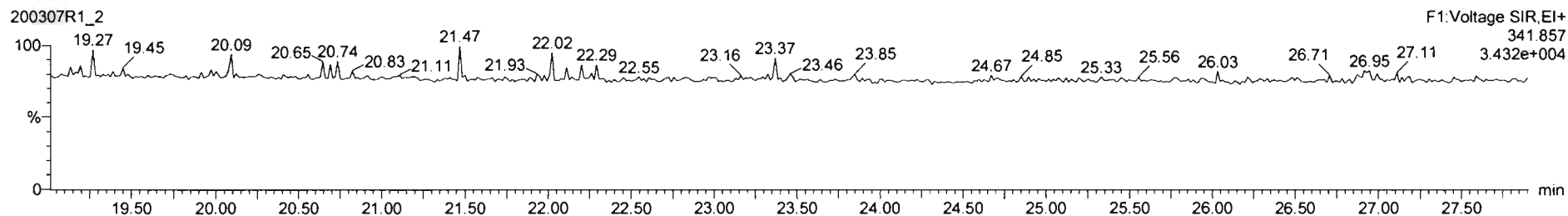
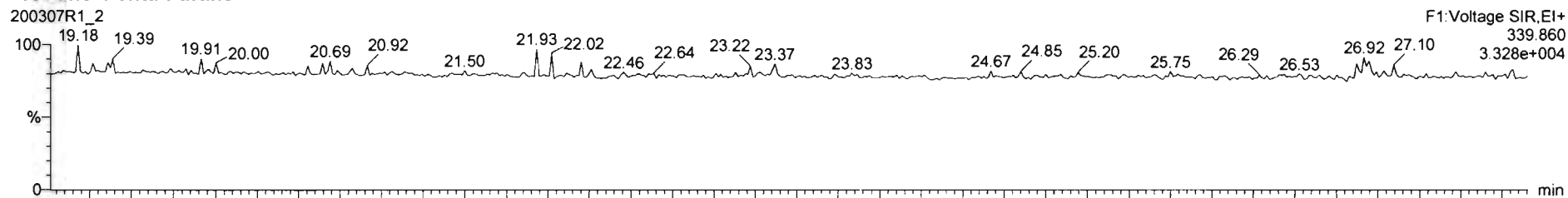
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Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time

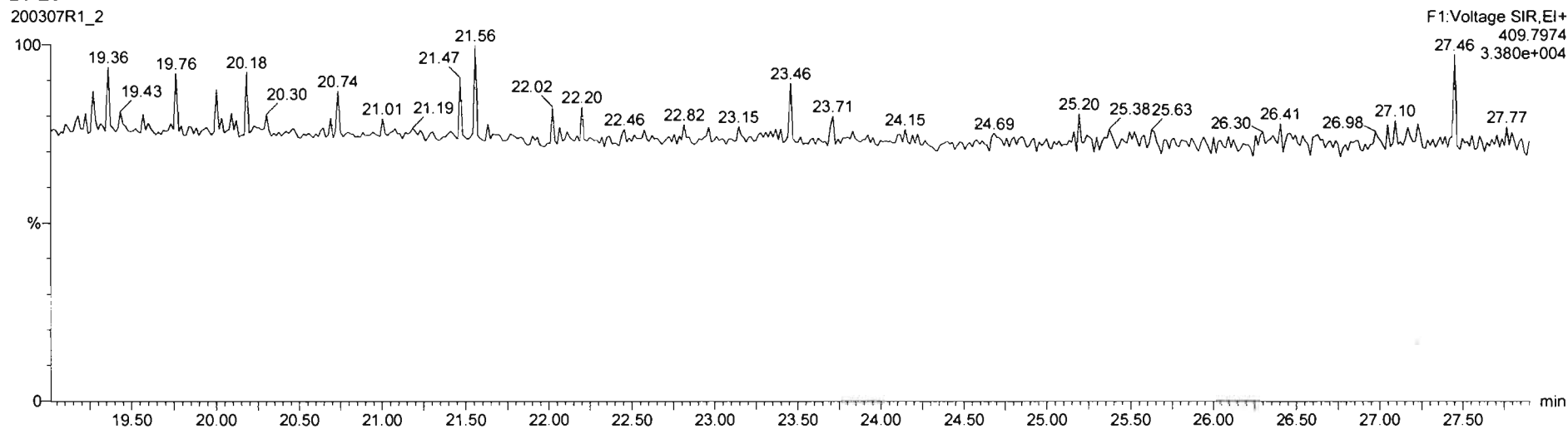
Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

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

1st Func. Penta-Furans



DPE6



Dataset: Untitled

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

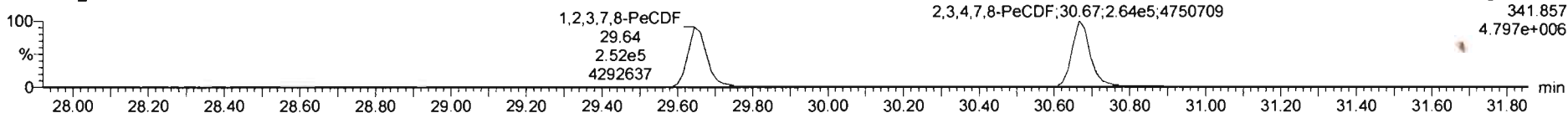
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1,2,3,7,8-PeCDF

200307R1_2

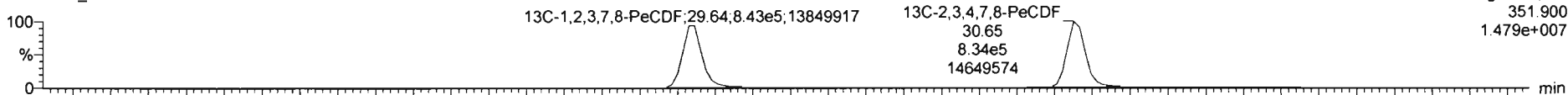


200307R1_2

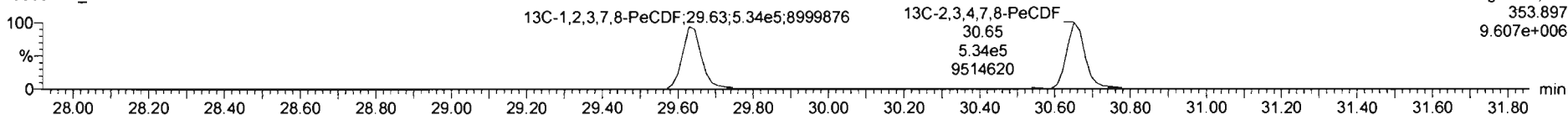


13C-1,2,3,7,8-PeCDF

200307R1_2

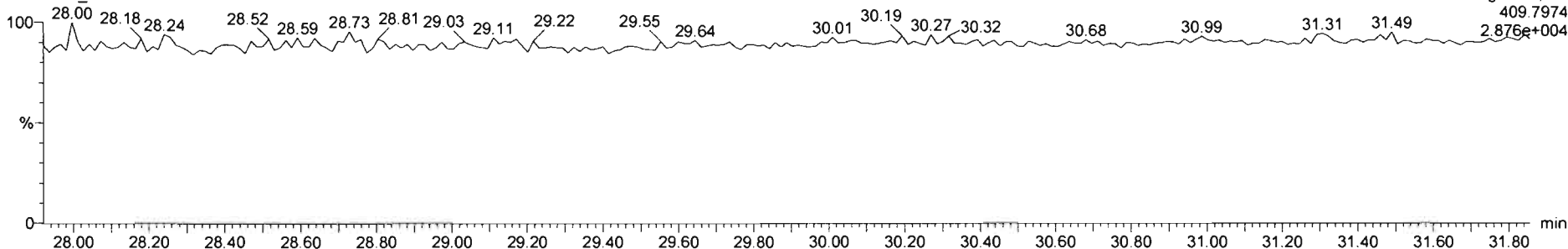


200307R1_2



DPE2

200307R1_2



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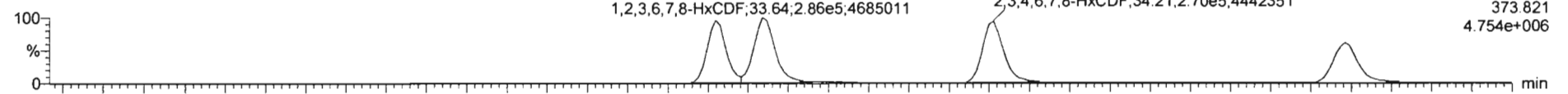
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Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

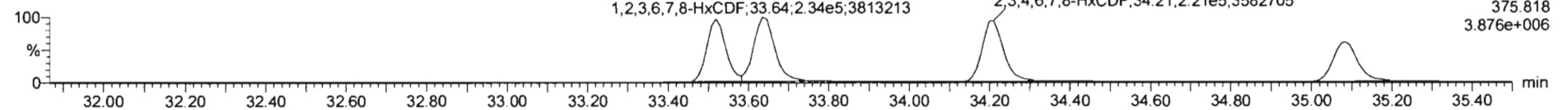
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1,2,3,4,7,8-HxCDF

200307R1_2

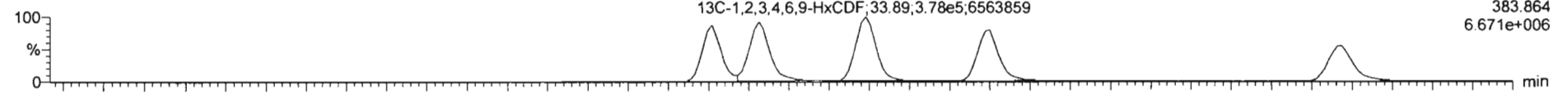


200307R1_2

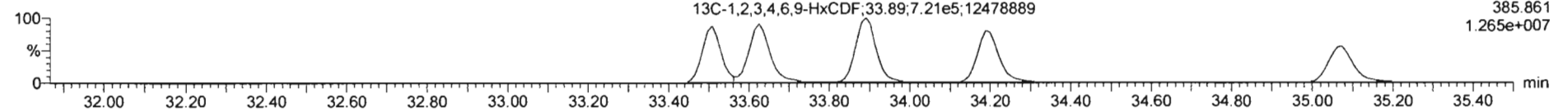


13C-1,2,3,4,7,8-HxCDF

200307R1_2

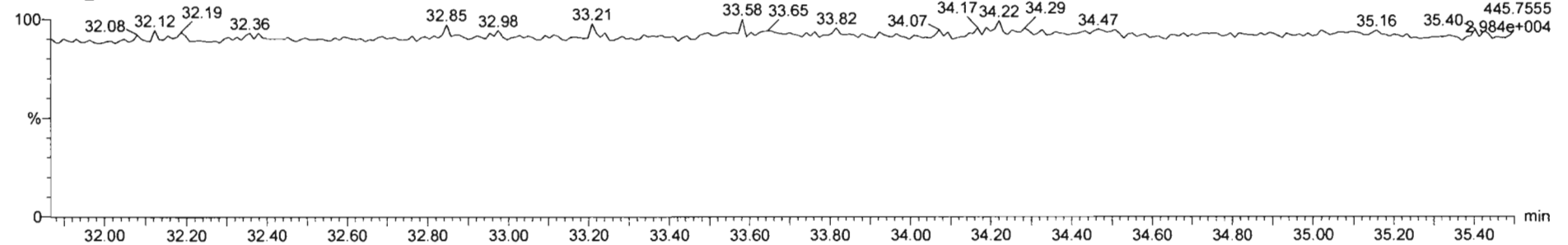


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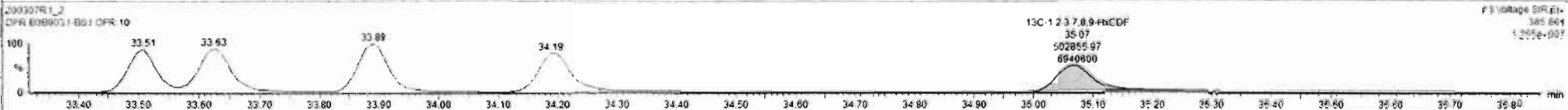
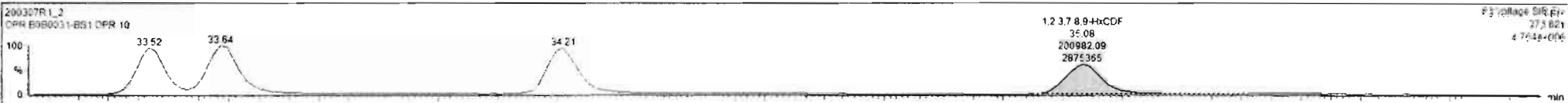


DPE3

200307R1_2



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



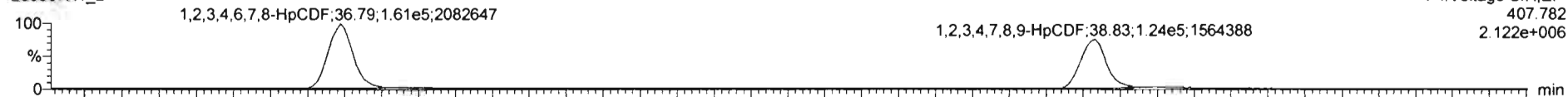
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Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time
Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

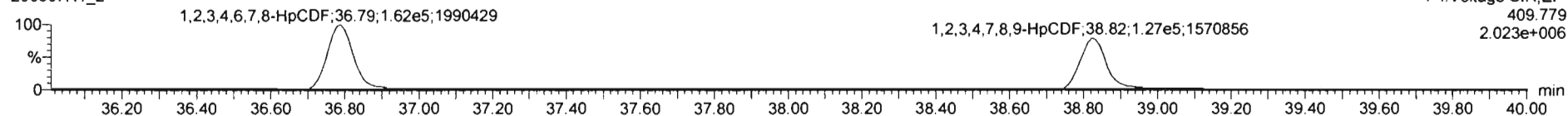
Name: 200307R1_2, Date: 07-Mar-2020, Time: 10:32:33, ID: B0B0031-BS1 OPR 10, Description: OPR

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

200307R1_2

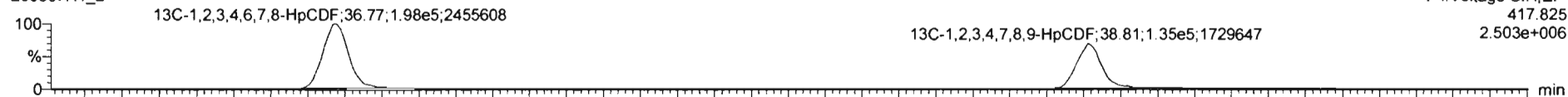


200307R1_2

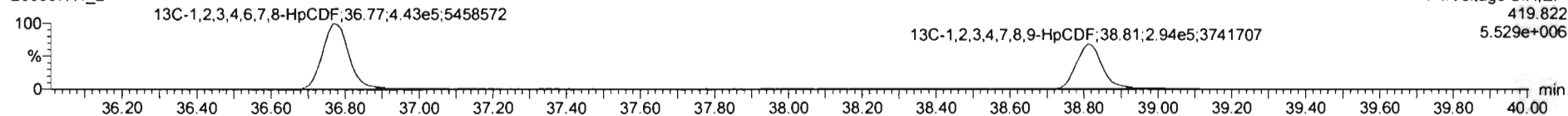


13C-1,2,3,4,6,7,8-HpCDF

200307R1_2

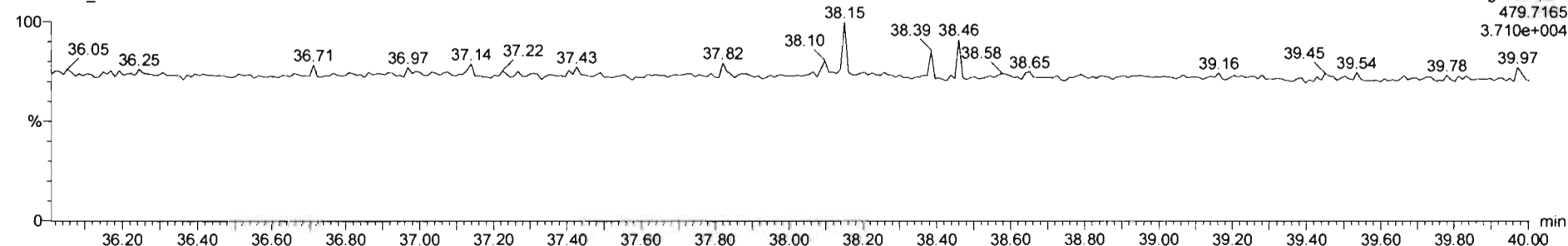


200307R1_2



DPE4

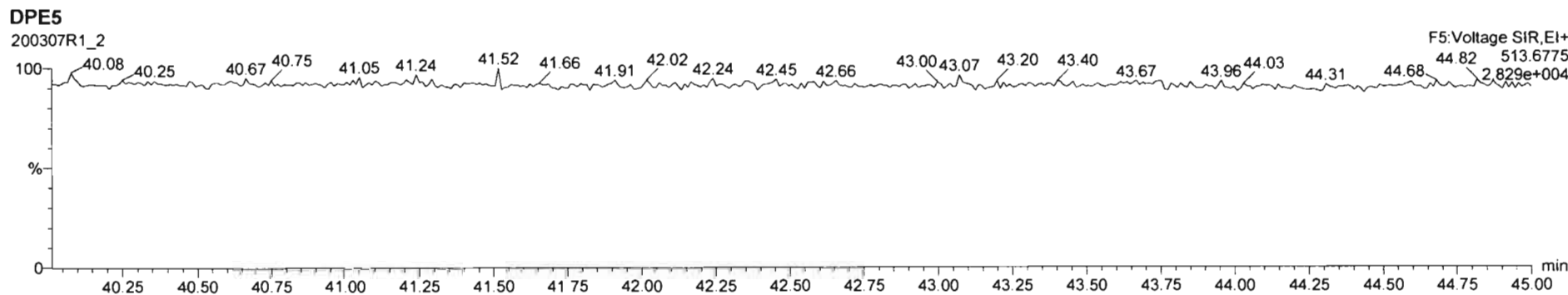
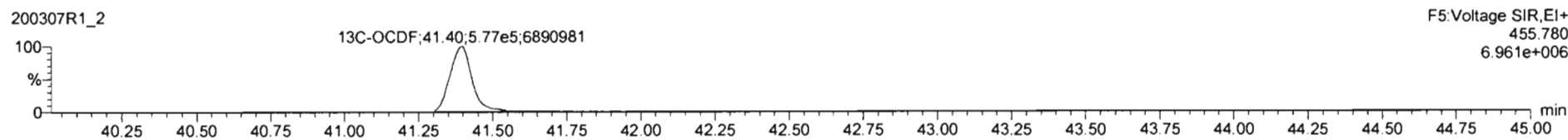
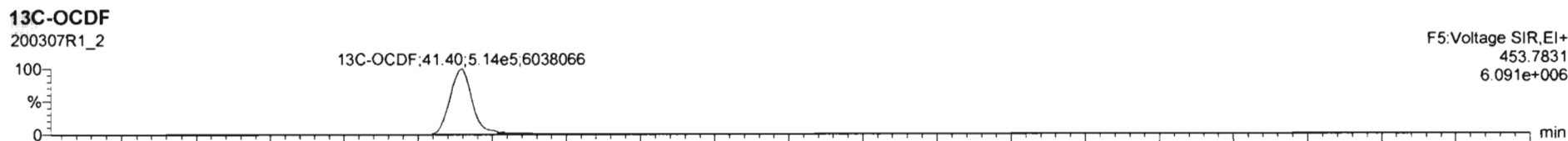
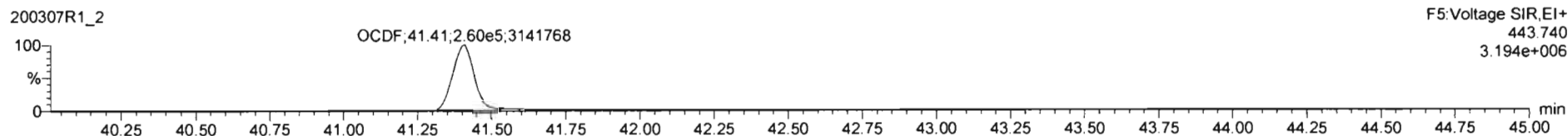
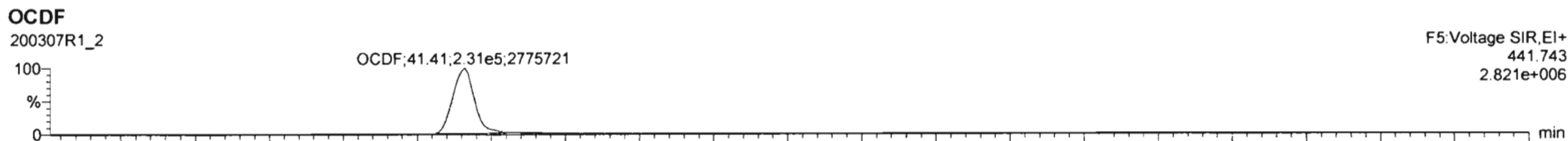
200307R1_2



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

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

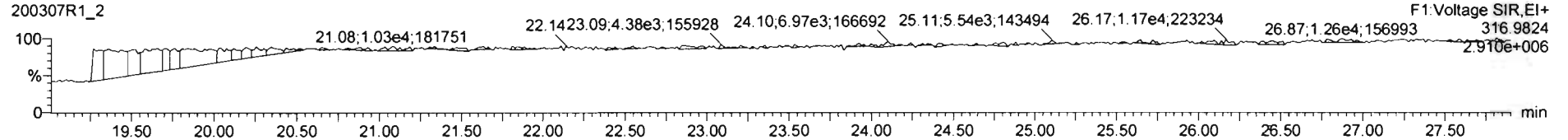


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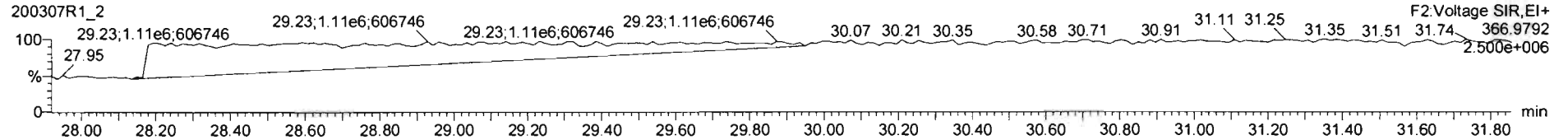
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Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

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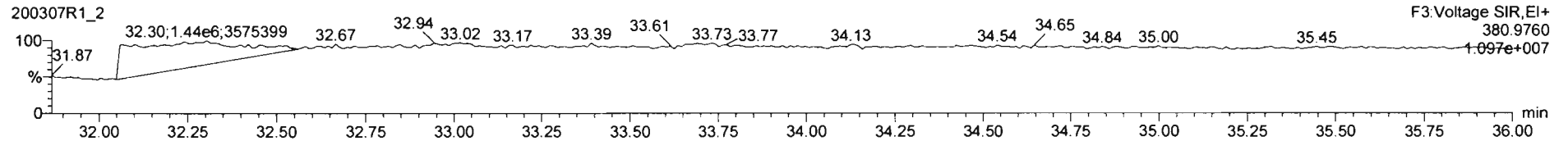
PFK1



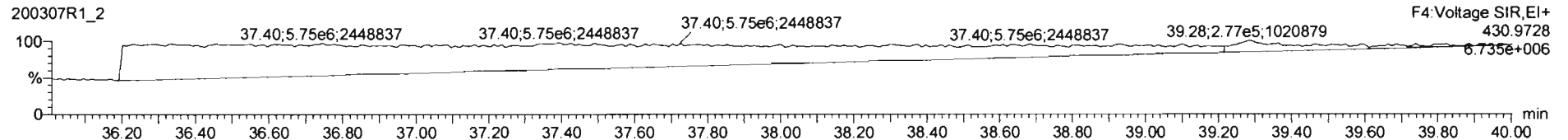
PFK2



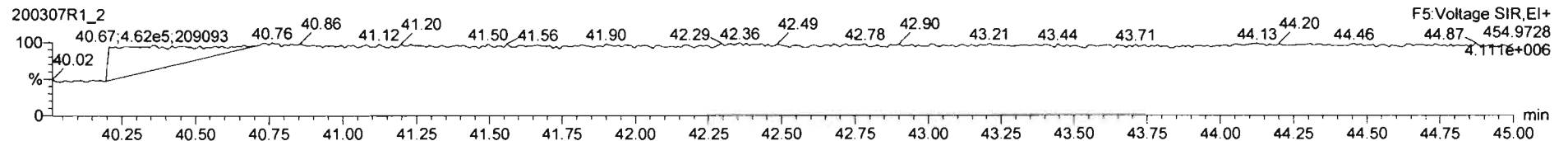
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200307R1\200307R1-6.qld

Last Altered: Wednesday, March 11, 2020 13:06:41 Pacific Daylight Time
Printed: Wednesday, March 11, 2020 13:15:25 Pacific Daylight Time

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C703/26/2020

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

Name: 200307R1_6, Date: 07-Mar-2020, Time: 13:41:06, ID: 2000144-01 PDI-052SC-A-06-07-191015 14.52, Description: PDI-052SC-A-06-07-191015

#	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	3748.241	0.556	YES	0.983	10.037	25.83	25.83	1.00	1.00	NO	0.5853		0.126	0.4807
2	2 1,2,3,7,8-PeCDD	2973.327	0.580	NO	0.921	10.037	31.01	31.00	1.00	1.00	NO	0.6120		0.201	0.6120
3	3 1,2,3,4,7,8-HxCDD	1552.695	1.504	YES	1.13	10.037	34.39	34.39	1.00	1.00	NO	0.3863		0.151	0.3456
4	4 1,2,3,6,7,8-HxCDD	9715.264	1.228	NO	0.984	10.037	34.48	34.50	1.00	1.00	NO	2.164		0.121	2.164
5	5 1,2,3,7,8,9-HxCDD	3119.005	1.390	NO	0.967	10.037	34.75	34.76	1.00	1.00	NO	0.9343		0.170	0.9343
6	6 1,2,3,4,6,7,8-HpCDD	244470.976	1.038	NO	1.01	10.037	38.23	38.23	1.00	1.00	NO	68.41		0.398	68.41
7	7 OCDD	2659626.3...	0.895	NO	1.05	10.037	41.24	41.25	1.00	1.00	NO	920.2		0.336	920.2
8	8 2,3,7,8-TCDF	106083.707	0.764	NO	0.915	10.037	24.86	24.87	1.00	1.00	NO	13.20 (10.7)		0.183	13.20
9	9 1,2,3,7,8-PeCDF	111788.336	1.552	NO	0.959	10.037	29.67	29.66	1.00	1.00	NO	14.69		0.134	14.69
10	10 2,3,4,7,8-PeCDF	63441.150	1.542	NO	1.00	10.037	30.70	30.68	1.00	1.00	NO	8.593		0.130	8.593
11	11 1,2,3,4,7,8-HxCDF	148087.883	1.219	NO	1.04	10.037	33.52	33.53	1.00	1.00	NO	24.76		0.115	24.76
12	12 1,2,3,6,7,8-HxCDF	42126.469	1.264	NO	1.01	10.037	33.65	33.65	1.00	1.00	NO	7.070		0.122	7.070
13	13 2,3,4,6,7,8-HxCDF	13793.137	1.232	NO	1.09	10.037	34.25	34.22	1.00	1.00	NO	2.452		0.136	2.452
14	14 1,2,3,7,8,9-HxCDF	2920.196	1.219	NO	1.03	10.037	35.08	35.11	1.00	1.00	NO	0.6026		0.176	0.6026
15	15 1,2,3,4,6,7,8-HpCDF	178699.179	1.024	NO	1.05	10.037	36.84	36.82	1.00	1.00	NO	40.28		0.167	40.28
16	16 1,2,3,4,7,8,9-HpCDF	18395.078	1.015	NO	1.21	10.037	38.83	38.85	1.00	1.00	NO	4.954		0.193	4.954
17	17 OCDF	149451.726	0.857	NO	0.947	10.037	41.41	41.42	1.00	1.00	NO	48.78		0.191	48.78
18	18 13C-2,3,7,8-TCDD	1297573.2...	0.788	NO	1.18	10.037	25.81	25.80	1.03	1.03	NO	181.6	91.1	0.732	
19	19 13C-1,2,3,7,8-PeCDD	1050887.5...	0.637	NO	0.864	10.037	31.01	30.99	1.24	1.23	NO	201.5	101	0.313	
20	20 13C-1,2,3,4,7,8-HxCDD	707176.438	1.277	NO	0.754	10.037	34.37	34.38	1.01	1.01	NO	211.9	106	0.526	
21	21 13C-1,2,3,6,7,8-HxCDD	908876.532	1.265	NO	0.925	10.037	34.48	34.48	1.02	1.02	NO	221.8	111	0.429	
22	22 13C-1,2,3,7,8,9-HxCDD	687576.906	1.260	NO	0.829	10.037	34.74	34.74	1.02	1.02	NO	187.2	94.0	0.479	
23	23 13C-1,2,3,4,6,7,8-HpCDD	707796.406	1.058	NO	0.598	10.037	38.19	38.22	1.13	1.13	NO	267.2	134	0.631	
24	24 13C-OCDD	1095431.6...	0.887	NO	0.571	10.037	41.34	41.24	1.22	1.22	NO	433.2	109	0.454	
25	25 13C-2,3,7,8-TCDF	1749196.7...	0.778	NO	1.09	10.037	24.83	24.84	0.99	0.99	NO	177.6	89.1	0.820	
26	26 13C-1,2,3,7,8-PeCDF	1580713.3...	1.600	NO	0.876	10.037	29.68	29.65	1.18	1.18	NO	199.5	100	0.516	
27	27 13C-2,3,4,7,8-PeCDF	1465935.7...	1.568	NO	0.844	10.037	30.69	30.67	1.22	1.22	NO	192.2	96.5	0.536	
28	28 13C-1,2,3,4,7,8-HxCDF	1148223.0...	0.526	NO	1.00	10.037	33.52	33.52	0.99	0.99	NO	259.3	130	0.494	
29	29 13C-1,2,3,6,7,8-HxCDF	1172416.5...	0.521	NO	1.12	10.037	33.63	33.64	0.99	0.99	NO	236.9	119	0.442	
30	30 13C-2,3,4,6,7,8-HxCDF	1026468.9...	0.519	NO	1.04	10.037	34.21	34.21	1.01	1.01	NO	223.9	112	0.477	
31	31 13C-1,2,3,7,8,9-HxCDF	940379.438	0.519	NO	0.873	10.037	35.08	35.08	1.03	1.03	NO	243.3	122	0.566	

Dataset: U:\VG12.PRO\Results\200307R1\200307R1-6.qld

Last Altered: Wednesday, March 11, 2020 13:06:41 Pacific Daylight Time
Printed: Wednesday, March 11, 2020 13:15:25 Pacific Daylight Time

Name: 200307R1_6, Date: 07-Mar-2020, Time: 13:41:06, ID: 2000144-01 PDI-052SC-A-06-07-191015 14.52, Description: PDI-052SC-A-06-07-191015

#	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	843359.203	0.446	NO	0.771	10.037	36.79	36.80	1.09	1.09	NO	247.1	124	0.447	
33	13C-1,2,3,4,7,8,9-HpCDF	611578.172	0.437	NO	0.519	10.037	38.88	38.83	1.15	1.15	NO	266.0	133	0.664	
34	13C-OCDF	1289619.8...	0.891	NO	0.696	10.037	41.52	41.41	1.22	1.22	NO	418.3	105	0.466	
35	37Cl-2,3,7,8-TCDD	538799.563			1.17	10.037	25.82	25.81	1.03	1.03	NO	76.02	95.4	0.215	
36	13C-1,2,3,4-TCDD	1202385.3...	0.783	NO	1.00	10.037	25.05	25.09	1.00	1.00	NO	199.3	100	0.867	
37	13C-1,2,3,4-TCDF	1801628.5...	0.802	NO	1.00	10.037	23.19	23.25	1.00	1.00	NO	199.3	100	0.894	
38	13C-1,2,3,4,6,9-HxCDF	882225.313	0.514	NO	1.00	10.037	33.88	33.90	1.00	1.00	NO	199.3	100	0.494	
39	Total Tetra-Dioxins				0.983	10.037	24.62		0.00		NO	1.106		0.126	1.587
40	Total Penta-Dioxins				0.921	10.037	29.96		0.00		NO	3.871		0.201	4.084
41	Total Hexa-Dioxins				0.984	10.037	33.63		0.00		NO	22.76		0.144	23.11
42	Total Hepta-Dioxins				1.01	10.037	37.64		0.00		NO	158.2		0.398	158.2
43	Total Tetra-Furans				0.915	10.037	23.61		0.00		NO	51.91		0.183	53.73
44	1st Func. Penta-Furans				0.959	10.037	27.09		0.00		NO	8.439		0.0506	8.439
45	Total Penta-Furans				0.959	10.037	29.27		0.00		NO	46.31		0.135	46.74
46	Total Hexa-Furans				1.09	10.037	33.56		0.00		NO	64.01		0.129	64.28
47	Total Hepta-Furans				1.05	10.037	37.83		0.00		NO	85.49		0.190	85.49

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200307R1\200307R1-6.qld

Last Altered: Wednesday, March 11, 2020 13:06:41 Pacific Daylight Time

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Name: 200307R1_6, Date: 07-Mar-2020, Time: 13:41:06, ID: 2000144-01 PDI-052SC-A-06-07-191015 14.52, Description: PDI-052SC-A-06-07-191015

Tetra-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	1 2,3,7,8-TCDD	3.75e3	1.30e6	0.556	YES	25.83	25.83	0.0000	0.4807
2	39 Total Tetra-Dioxins	2.54e3	1.30e6	0.765	NO	24.62	23.46	0.3972	0.3972
3	39 Total Tetra-Dioxins	4.54e3	1.30e6	0.850	NO	24.62	21.57	0.7086	0.7086

Penta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	40 Total Penta-Dioxins	1.58e3	1.05e6	0.649	NO	29.96	29.20	0.3247	0.3247
2	40 Total Penta-Dioxins	6.65e3	1.05e6	0.682	NO	29.96	28.68	1.369	1.369
3	2 1,2,3,7,8-PeCDD	2.97e3	1.05e6	0.580	NO	31.01	31.00	0.6120	0.6120
4	40 Total Penta-Dioxins	2.34e3	1.05e6	0.628	NO	29.96	30.22	0.4813	0.4813
5	40 Total Penta-Dioxins	0.00e0	1.05e6	0.449	YES	29.96	29.98	0.0000	0.2135
6	40 Total Penta-Dioxins	1.77e3	1.05e6	0.574	NO	29.96	29.87	0.3643	0.3643
7	40 Total Penta-Dioxins	3.49e3	1.05e6	0.568	NO	29.96	29.71	0.7192	0.7192

Hexa-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	5 1,2,3,7,8,9-HxCDD	3.12e3	6.88e5	1.390	NO	34.75	34.76	0.9343	0.9343
2	41 Total Hexa-Dioxins	9.26e2	0.00e0	1.345	NO	33.63	34.66	0.2440	0.2440
3	4 1,2,3,6,7,8-HxCDD	9.72e3	9.09e5	1.228	NO	34.48	34.50	2.164	2.164
4	3 1,2,3,4,7,8-HxCDD	1.55e3	7.07e5	1.504	YES	34.39	34.39	0.0000	0.3456
5	41 Total Hexa-Dioxins	6.49e2	0.00e0	1.391	NO	33.63	33.82	0.1712	0.1712
6	41 Total Hexa-Dioxins	3.09e4	0.00e0	1.260	NO	33.63	33.72	8.158	8.158
7	41 Total Hexa-Dioxins	5.29e3	0.00e0	1.216	NO	33.63	33.48	1.395	1.395
8	41 Total Hexa-Dioxins	3.68e4	0.00e0	1.280	NO	33.63	32.91	9.697	9.697

Dataset: U:\VG12.PRO\Results\200307R1\200307R1-6.qld

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Printed: Wednesday, March 11, 2020 13:15:49 Pacific Daylight Time

Name: 200307R1_6, Date: 07-Mar-2020, Time: 13:41:06, ID: 2000144-01 PDI-052SC-A-06-07-191015 14.52, Description: PDI-052SC-A-06-07-191015

Hepta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	2.44e5	7.08e5	1.038	NO	38.23	38.23	68.41	68.41
2	42 Total Hepta-Dioxins	3.21e5	7.08e5	1.034	NO	37.64	37.19	89.82	89.82

Tetra-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	43 Total Tetra-Furans	6.75e3	1.75e6	0.832	NO	23.61	22.37	0.8400	0.8400
2	43 Total Tetra-Furans	1.53e4	1.75e6	0.723	NO	23.61	21.99	1.898	1.898
3	43 Total Tetra-Furans	3.52e4	1.75e6	0.804	NO	23.61	21.53	4.379	4.379
4	43 Total Tetra-Furans	7.76e3	1.75e6	0.788	NO	23.61	21.16	0.9652	0.9652
5	43 Total Tetra-Furans	2.43e4	1.75e6	0.796	NO	23.61	20.62	3.028	3.028
6	43 Total Tetra-Furans	3.65e3	1.75e6	0.831	NO	23.61	20.06	0.4538	0.4538
7	43 Total Tetra-Furans	1.97e3	1.75e6	0.709	NO	23.61	19.52	0.2449	0.2449
8	43 Total Tetra-Furans	0.00e0	1.75e6	1.150	YES	23.61	26.99	0.0000	1.819
9	43 Total Tetra-Furans	1.03e4	1.75e6	0.825	NO	23.61	26.71	1.278	1.278
10	43 Total Tetra-Furans	8.31e3	1.75e6	0.877	NO	23.61	26.54	1.034	1.034
11	43 Total Tetra-Furans	6.74e3	1.75e6	0.809	NO	23.61	25.24	0.8386	0.8386
12	8 2,3,7,8-TCDF	1.06e5	1.75e6	0.764	NO	24.86	24.87	13.20	13.20
13	43 Total Tetra-Furans	2.72e4	1.75e6	0.743	NO	23.61	24.75	3.391	3.391
14	43 Total Tetra-Furans	5.14e3	1.75e6	0.795	NO	23.61	24.13	0.6395	0.6395
15	43 Total Tetra-Furans	1.03e5	1.75e6	0.774	NO	23.61	23.83	12.79	12.79
16	43 Total Tetra-Furans	5.56e4	1.75e6	0.753	NO	23.61	23.25	6.923	6.923

Penta-Furans function 1

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	44 1st Func. Penta-Fura...	6.19e4	0.00e0	1.528	NO	27.09	26.98	8.439	8.439

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Name: 200307R1_6, Date: 07-Mar-2020, Time: 13:41:06, ID: 2000144-01 PDI-052SC-A-06-07-191015 14.52, Description: PDI-052SC-A-06-07-191015

Penta-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	45 Total Penta-Furans	7.76e4	0.00e0	1.539	NO	29.27	28.65	10.58	10.58
2	45 Total Penta-Furans	2.47e3	0.00e0	1.424	NO	29.27	28.50	0.3368	0.3368
3	45 Total Penta-Furans	0.00e0	0.00e0	1.043	YES	29.27	31.63	0.0000	0.2790
4	10 2,3,4,7,8-PeCDF	6.34e4	1.47e6	1.542	NO	30.70	30.68	8.593	8.593
5	45 Total Penta-Furans	0.00e0	0.00e0	1.143	YES	29.27	30.56	0.0000	0.1479
6	45 Total Penta-Furans	9.11e3	0.00e0	1.704	NO	29.27	30.03	1.243	1.243
7	45 Total Penta-Furans	3.88e4	0.00e0	1.577	NO	29.27	29.93	5.288	5.288
8	9 1,2,3,7,8-PeCDF	1.12e5	1.58e6	1.552	NO	29.67	29.66	14.69	14.69
9	45 Total Penta-Furans	1.54e4	0.00e0	1.577	NO	29.27	29.48	2.101	2.101
10	45 Total Penta-Furans	2.56e4	0.00e0	1.604	NO	29.27	29.25	3.486	3.486

Hexa-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	46 Total Hexa-Furans	8.99e2	0.00e0	1.421	NO	33.56	32.89	0.1530	0.1530
2	46 Total Hexa-Furans	6.17e4	0.00e0	1.232	NO	33.56	32.52	10.51	10.51
3	46 Total Hexa-Furans	2.40e4	0.00e0	1.232	NO	33.56	32.35	4.084	4.084
4	14 1,2,3,7,8,9-HxCDF	2.92e3	9.40e5	1.219	NO	35.08	35.11	0.6026	0.6026
5	13 2,3,4,6,7,8-HxCDF	1.38e4	1.03e6	1.232	NO	34.25	34.22	2.452	2.452
6	12 1,2,3,6,7,8-HxCDF	4.21e4	1.17e6	1.264	NO	33.65	33.65	7.070	7.070
7	11 1,2,3,4,7,8-HxCDF	1.48e5	1.15e6	1.219	NO	33.52	33.53	24.76	24.76
8	46 Total Hexa-Furans	0.00e0	0.00e0	1.526	YES	33.56	33.43	0.0000	0.2683
9	46 Total Hexa-Furans	7.17e4	0.00e0	1.219	NO	33.56	33.07	12.21	12.21
10	46 Total Hexa-Furans	1.28e4	0.00e0	1.255	NO	33.56	35.14	2.175	2.175

Hepta-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	16 1,2,3,4,7,8,9-HpCDF	1.84e4	6.12e5	1.015	NO	38.83	38.85	4.954	4.954
2	47 Total Hepta-Furans	1.53e5	0.00e0	1.008	NO	37.83	37.41	39.94	39.94
3	47 Total Hepta-Furans	1.22e3	0.00e0	1.122	NO	37.83	37.20	0.3177	0.3177
4	15 1,2,3,4,6,7,8-HpCDF	1.79e5	8.43e5	1.024	NO	36.84	36.82	40.28	40.28

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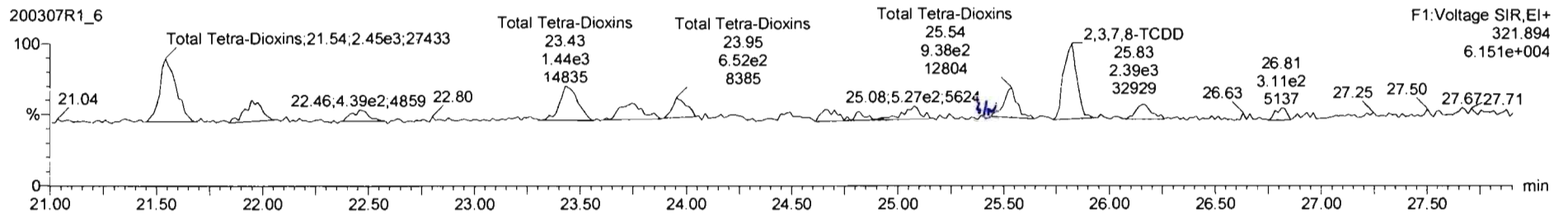
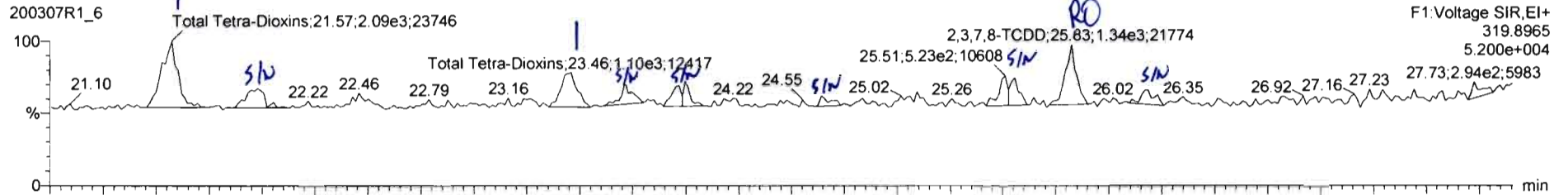
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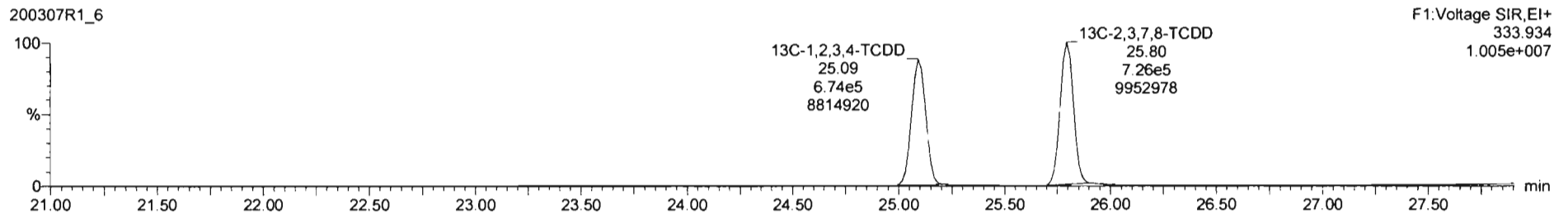
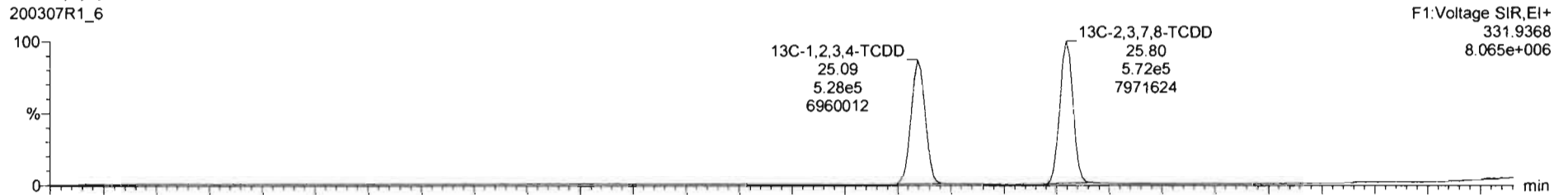
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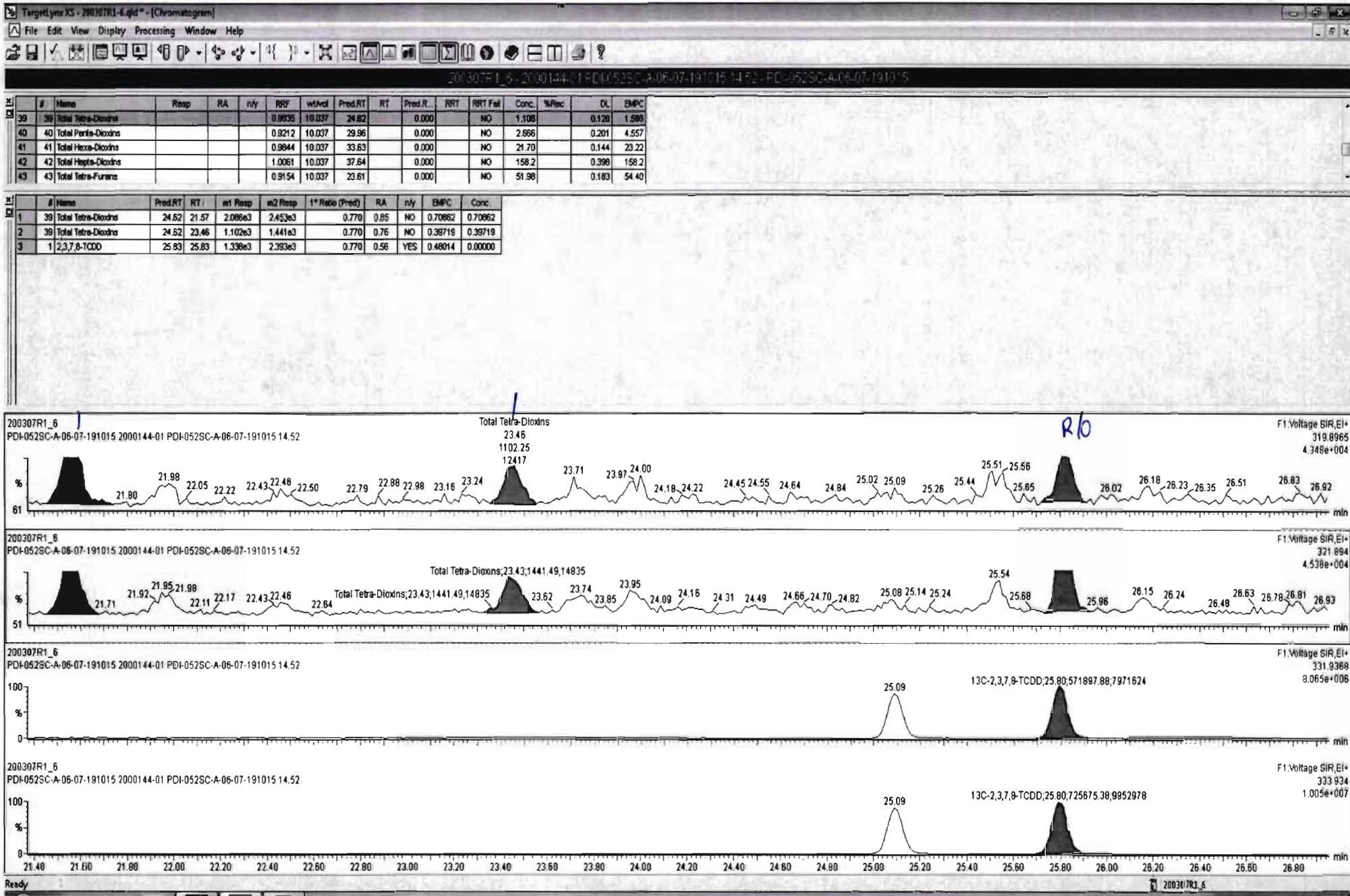
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2,3,7,8-TCDD



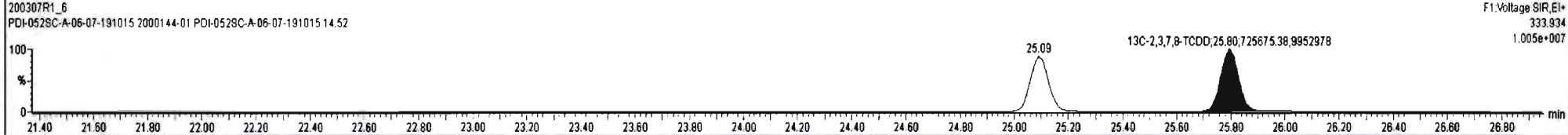
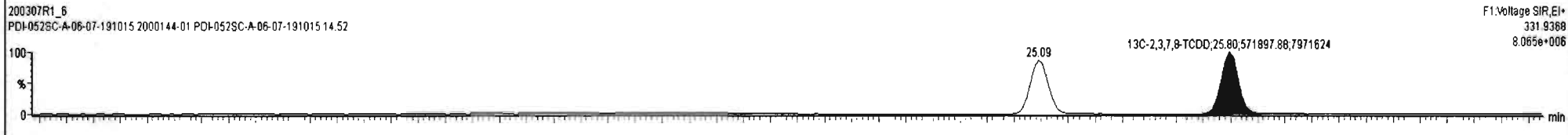
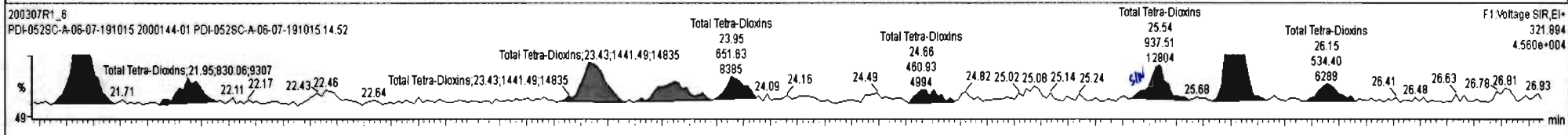
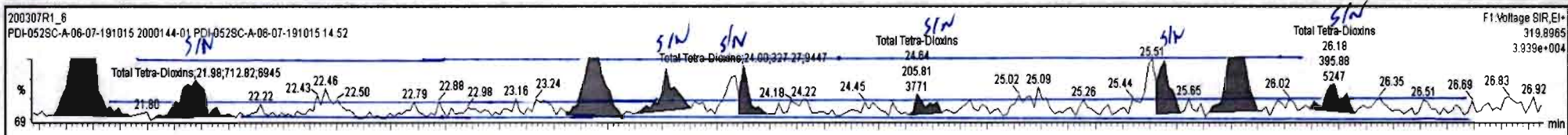
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#	Name	Resp	RA	n/y	R/R	wtAvcl	Pred.RT	RT	Pred.R.	RRT	RRT Fal	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9835	10.037	24.62		0.000		NO	1.492		0.125	2.508
40	Total Penta-Dioxins				0.9212	10.037	29.96		0.000		NO	2.666		0.201	4.557
41	Total Hexa-Dioxins				0.9844	10.037	33.63		0.000		NO	21.70		0.144	23.22
42	Total Hepta-Dioxins				1.0061	10.037	37.64		0.000		NO	158.2		0.398	158.2
43	Total Tetra-Furans				0.9154	10.037	23.61		0.000		NO	51.98		0.183	54.40

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	39 Total Tetra-Dioxins	24.62	21.57	2.086e3	2.453e3	0.770	0.85	NO	0.70900	0.70862
2	39 Total Tetra-Dioxins	24.62	21.98	7.128e2	8.301e2	0.770	0.86	NO	0.24100	0.24091
3	39 Total Tetra-Dioxins	24.62	23.46	1.102e3	1.441e3	0.770	0.76	NO	0.39700	0.39719
4	39 Total Tetra-Dioxins	24.62	23.72	4.710e2	8.839e2	0.770	0.53	YES	0.16900	0.00000
5	39 Total Tetra-Dioxins	24.62	24.00	3.273e2	6.516e2	0.770	0.50	YES	0.11700	0.00000
6	39 Total Tetra-Dioxins	24.62	24.64	2.058e2	4.609e2	0.770	0.45	YES	0.074000	0.00000
7	39 Total Tetra-Dioxins	24.62	25.56	4.907e2	9.375e2	0.770	0.52	YES	0.17600	0.00000
8	1 2,3,7,8-TCDD	25.83	25.83	1.338e3	2.393e3	0.770	0.58	YES	0.48000	0.00000
9	39 Total Tetra-Dioxins	24.62	26.18	3.959e2	5.344e2	0.770	0.74	NO	0.14500	0.14526



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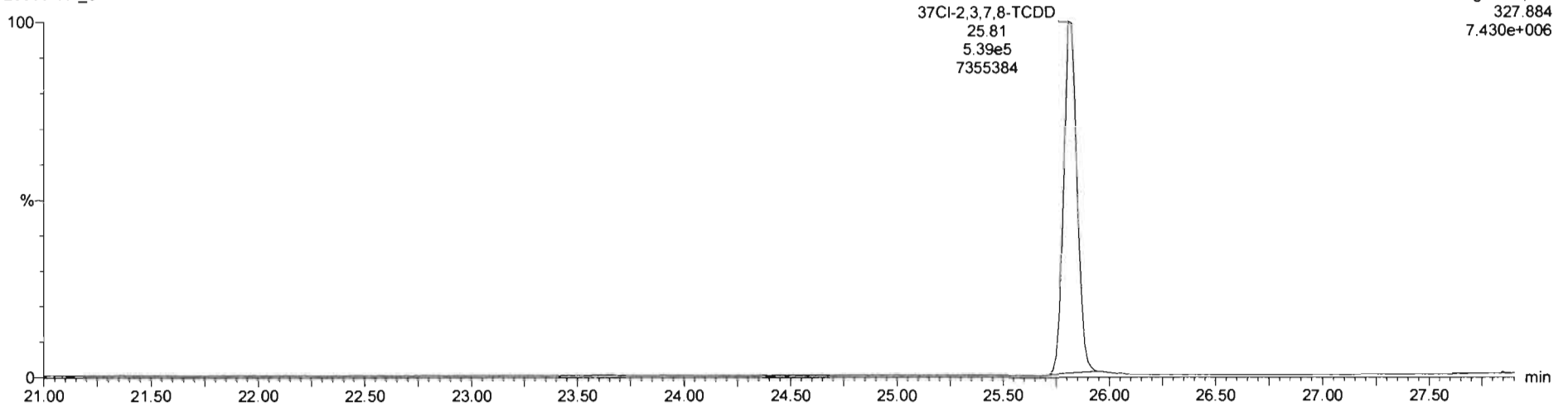
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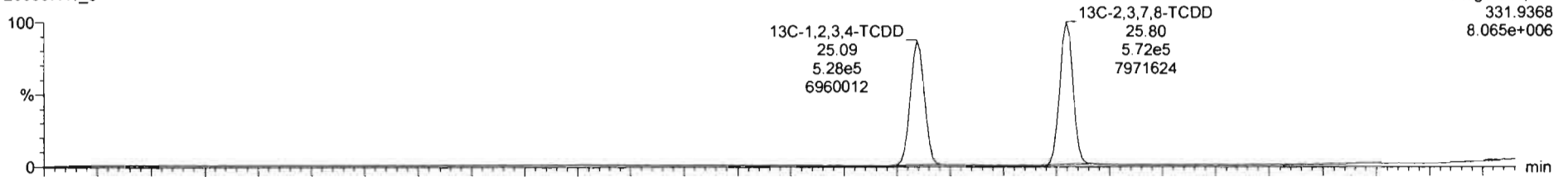
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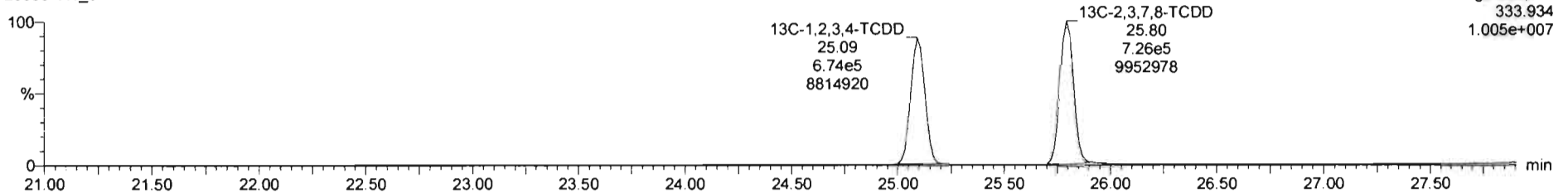


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200307R1_6



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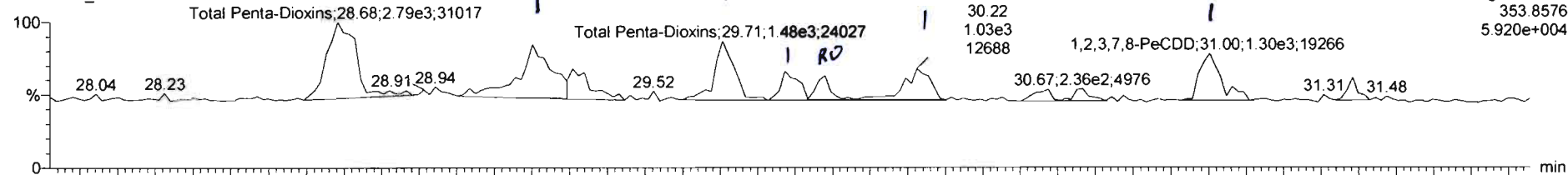
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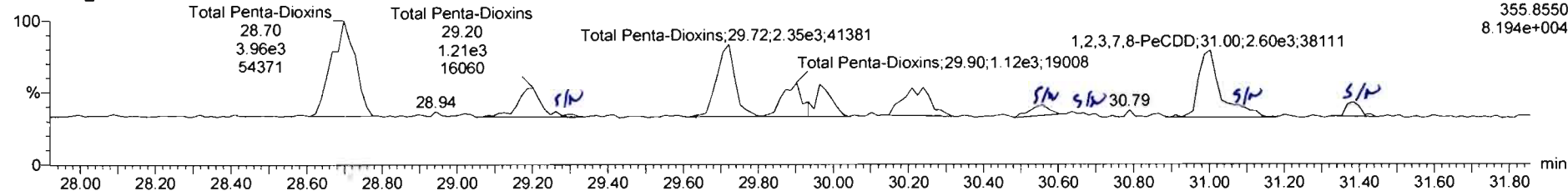
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1,2,3,7,8-PeCDD

200307R1_6

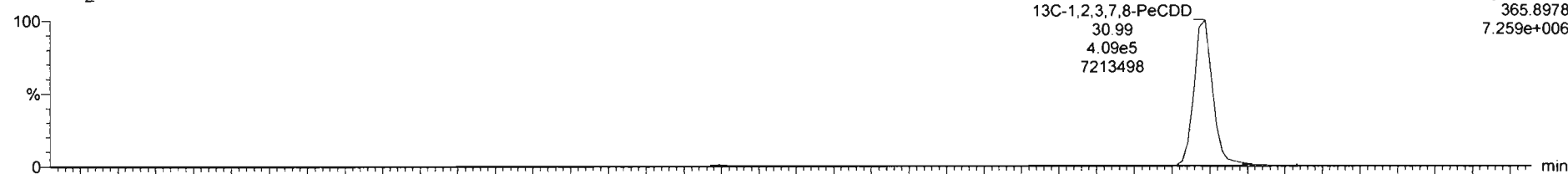


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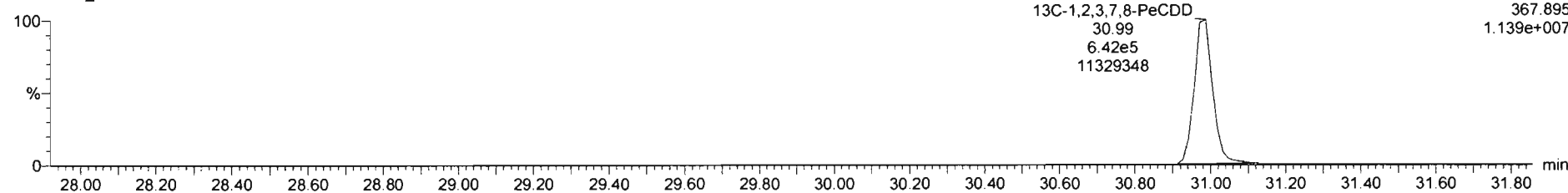


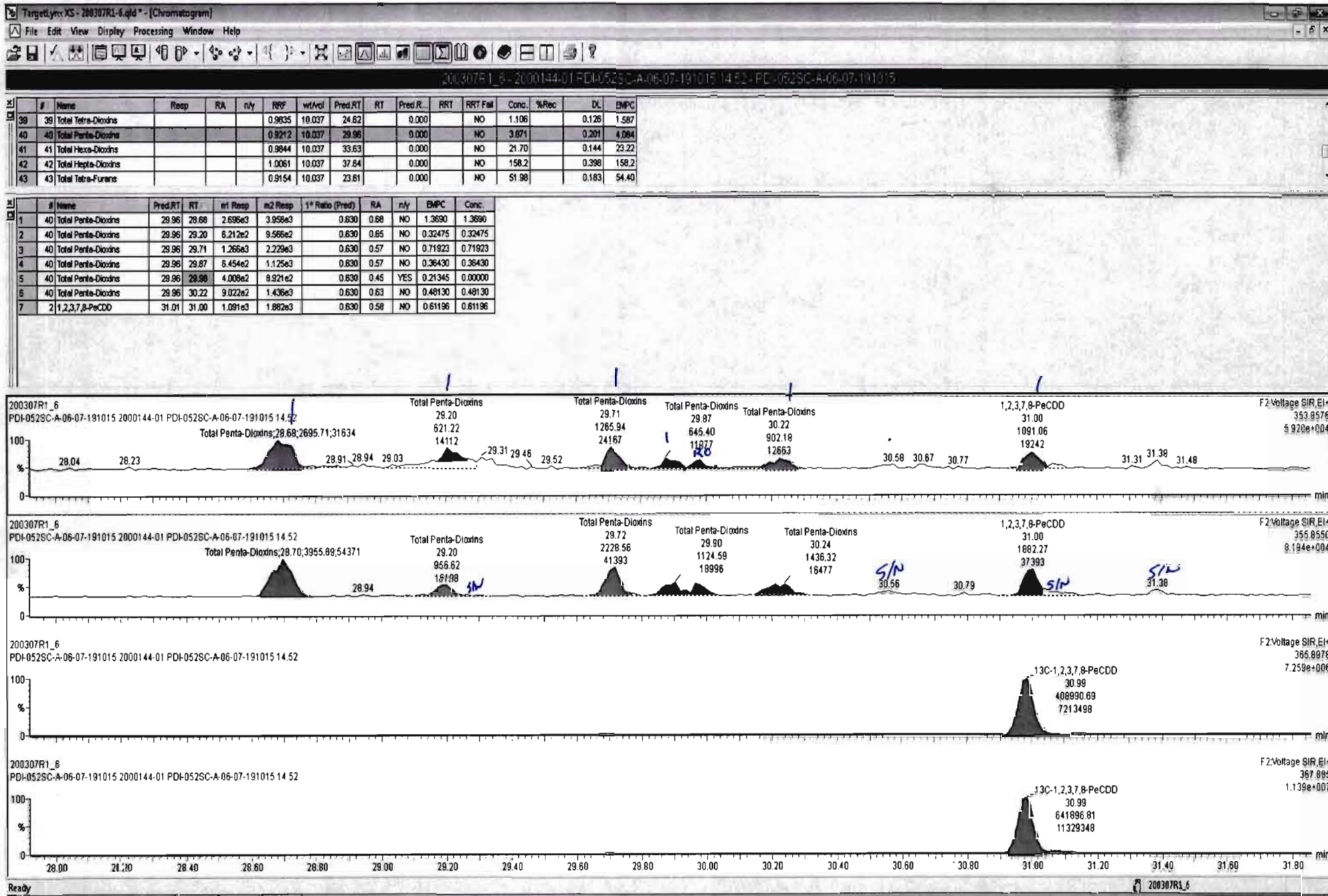
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200307R1_6



200307R1_6

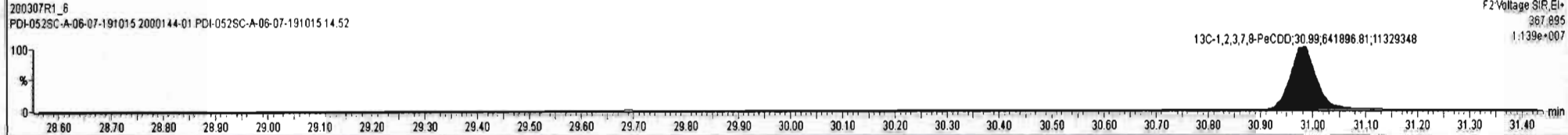
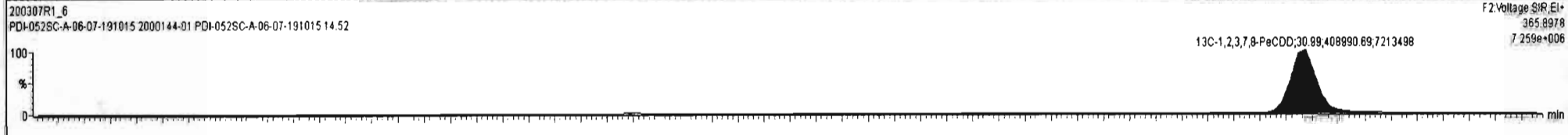
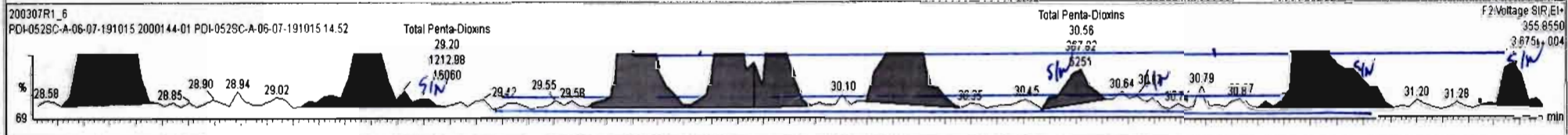
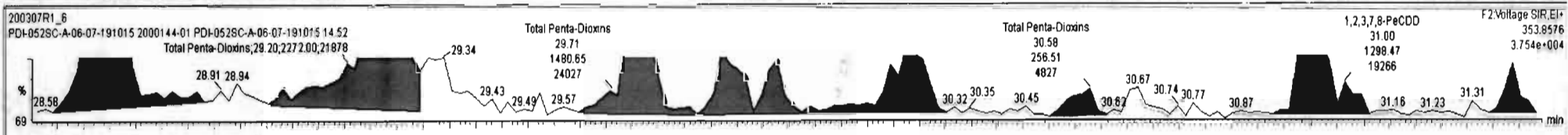




200307R1_6 - 2000144-01 PDI-052SC-A-06-07-191015 14.52 - PDI-052SC-A-06-07-191015

#	Name	Resp	RA	n/y	RRF	wt/val	Pred.RT	RT	Pred.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9835	10.037	24.62		0.000		NO	1.106		0.126	1.587
40	Total Penta-Dioxins				0.8212	10.037	29.96		0.000		NO	2.668		0.201	4.557
41	Total Hexa-Dioxins				0.9844	10.037	33.63		0.000		NO	21.70		0.144	23.22
42	Total Hepta-Dioxins				1.0061	10.037	37.64		0.000		NO	158.2		0.398	158.2
43	Total Tetra-Furans				0.9154	10.037	23.61		0.000		NO	51.98		0.183	54.40

#	Name	Pred.RT	RT	ml Resp	ng Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	40 Total Penta-Dioxins	29.96	29.68	2.788e3	3.956e3	0.630	0.70	NO	1.3879	1.3879
2	40 Total Penta-Dioxins	29.96	29.20	2.272e3	1.213e3	0.630	1.87	YES	0.40694	0.00000
3	40 Total Penta-Dioxins	29.96	29.71	1.481e3	2.355e3	0.630	0.63	NO	0.78942	0.78942
4	40 Total Penta-Dioxins	29.96	29.87	8.272e2	1.123e3	0.630	0.56	NO	0.36022	0.36022
5	40 Total Penta-Dioxins	29.96	29.98	4.262e2	8.944e2	0.630	0.48	YES	0.22696	0.00000
6	40 Total Penta-Dioxins	29.96	30.23	1.034e3	1.321e3	0.630	0.78	YES	0.44331	0.00000
7	40 Total Penta-Dioxins	29.96	30.58	2.565e2	3.678e2	0.630	0.70	NO	0.12850	0.12850
8	2 1,2,3,7,8-PeCDD	31.01	31.00	1.298e3	2.596e3	0.630	0.50	YES	0.69145	0.00000
9	40 Total Penta-Dioxins	29.96	31.38	2.931e2	3.652e2	0.630	0.80	YES	0.12252	0.00000



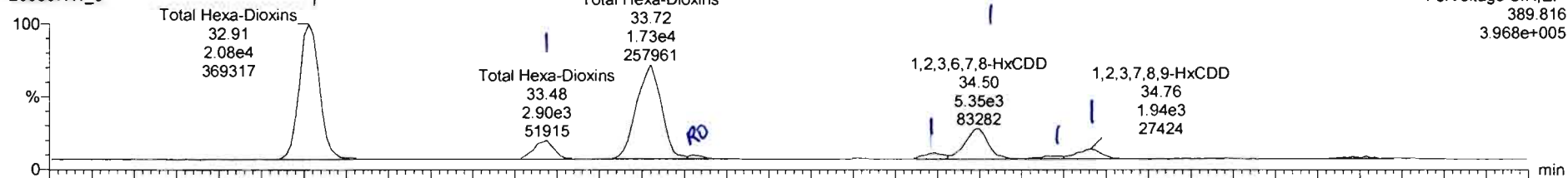
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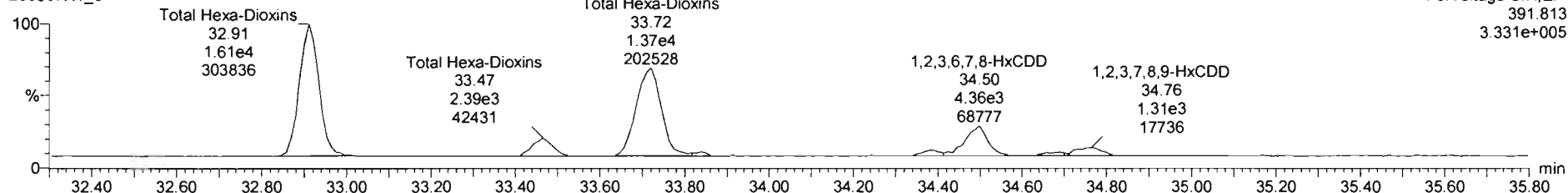
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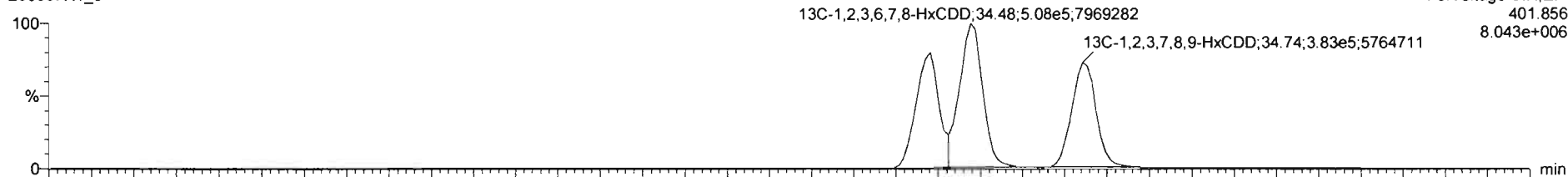


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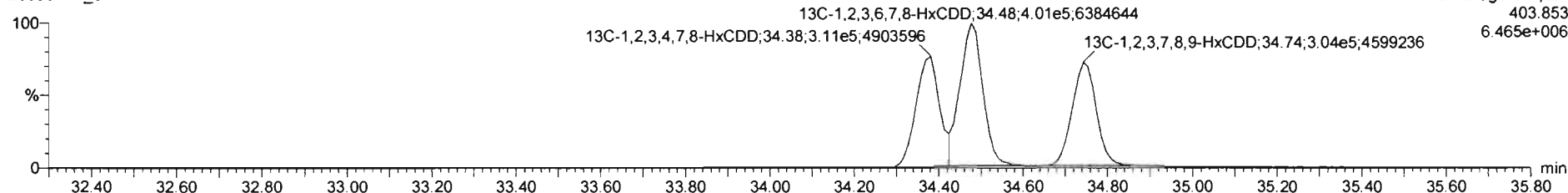


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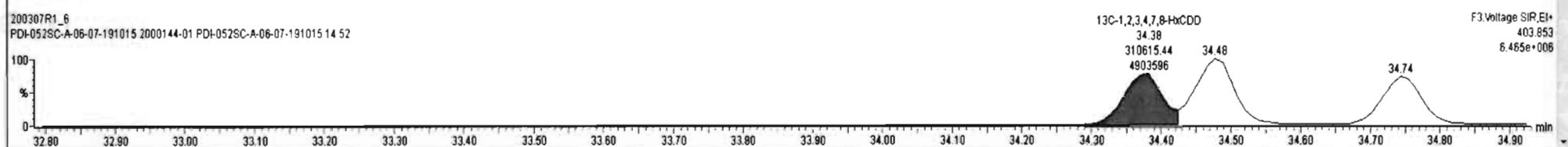
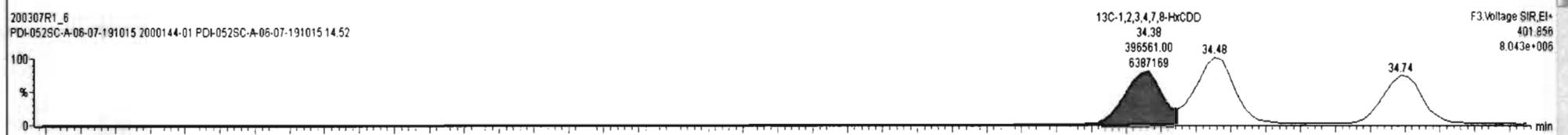
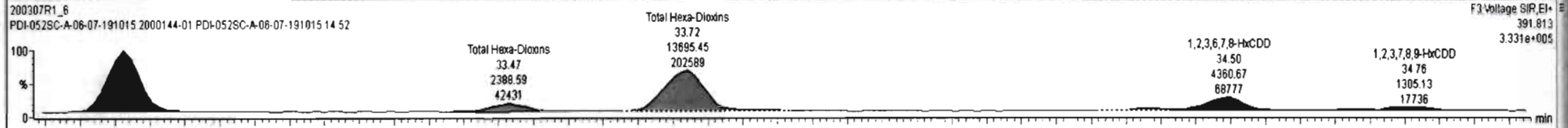
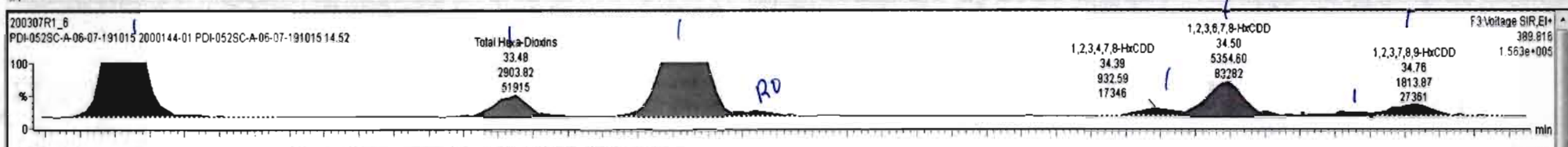


200307R1_6



#	Name	Resp	RA	n/y	RRF	wt/val	Pred RT	RT	Pred R	RRT	RRT Fall	Conc.	%Rec	DL	EWPC
39	Total Tetra-Dioxins				0.9835	10.037	24.62		0.000		NO	1.106		0.126	1.587
40	Total Penta-Dioxins				0.9212	10.037	29.96		0.000		NO	3.871		0.201	4.084
41	Total Hexa-Dioxins				0.5844	10.037	33.63		0.000		NO	22.78		0.144	23.11
42	Total Hepta-Dioxins				1.0061	10.037	37.64		0.000		NO	158.2		0.398	158.2
43	Total Tetra-Furans				0.9154	10.037	23.61		0.000		NO	51.98		0.183	54.40

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EWPC	Conc.
1	Total Hexa-Dioxins	33.63	32.81	2.065e4	1.614e4	1.240	1.28	NO	9.6870	9.8970
2	Total Hexa-Dioxins	33.63	33.48	2.904e3	2.389e3	1.240	1.22	NO	1.3950	1.3950
3	Total Hexa-Dioxins	33.63	33.72	1.725e4	1.370e4	1.240	1.26	NO	8.1576	8.1576
4	Total Hexa-Dioxins	33.63	33.82	3.779e2	2.717e2	1.240	1.39	NO	0.17119	0.17119
5	1,2,3,4,7,8-HxCDD	34.39	34.39	9.326e2	6.201e2	1.240	1.50	YES	0.34558	0.00000
6	1,2,3,6,7,8-HxCDD	34.48	34.50	5.355e3	4.361e3	1.240	1.23	NO	2.1636	2.1636
7	Total Hexa-Dioxins	33.63	34.66	5.309e2	3.947e2	1.240	1.35	NO	0.24396	0.24396
8	1,2,3,7,8-HxCDD	34.75	34.76	1.814e3	1.305e3	1.240	1.39	NO	0.93434	0.93434



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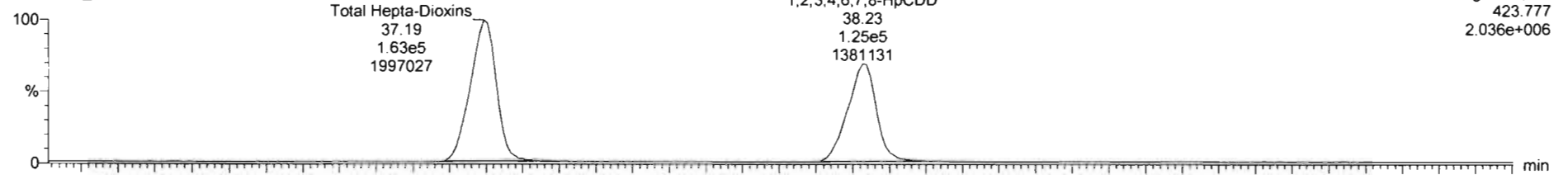
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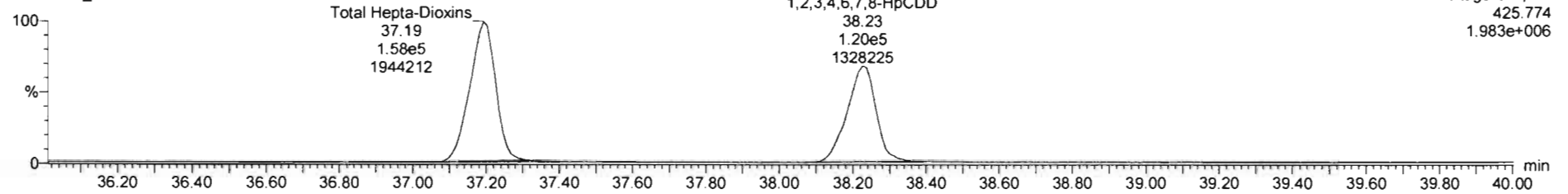
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1,2,3,4,6,7,8-HpCDD

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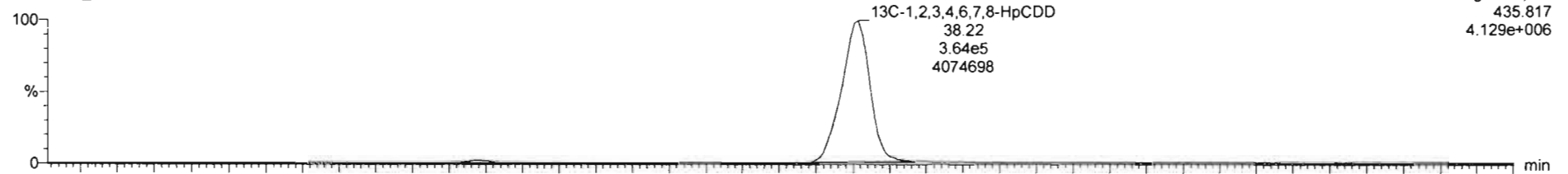


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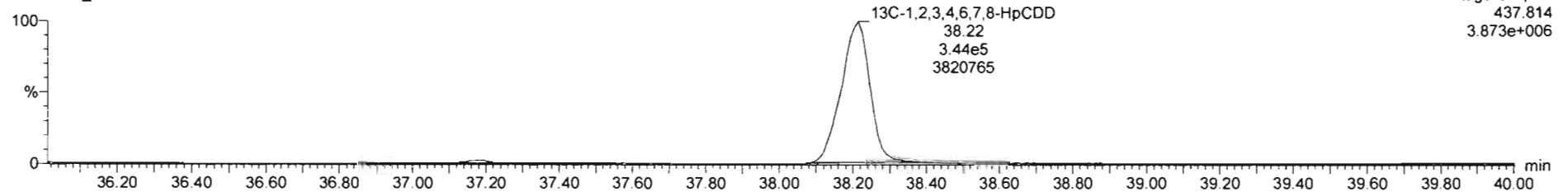


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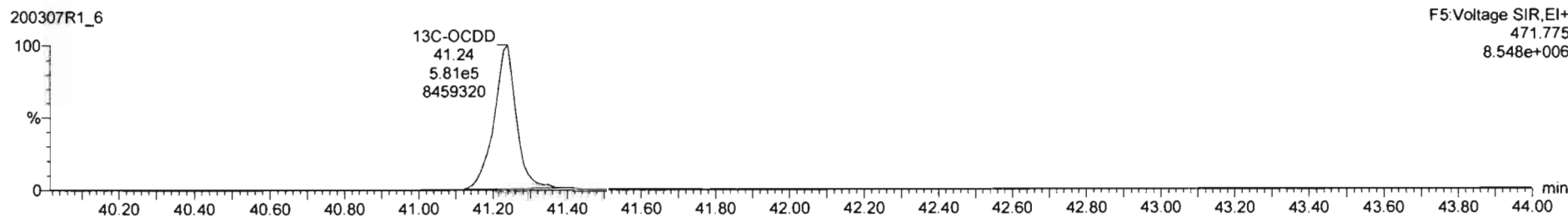
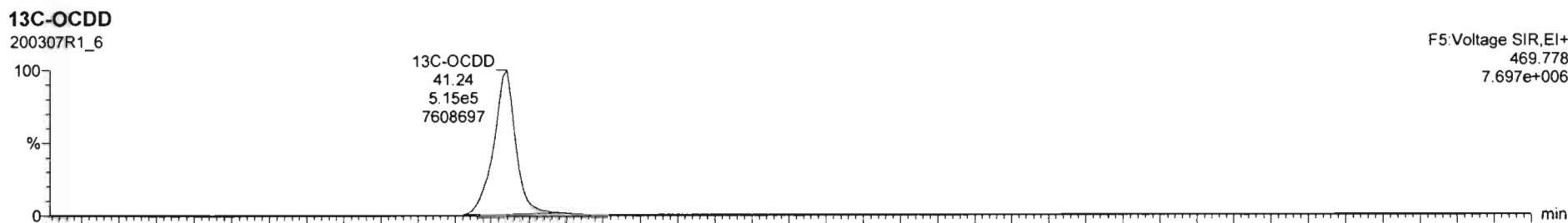
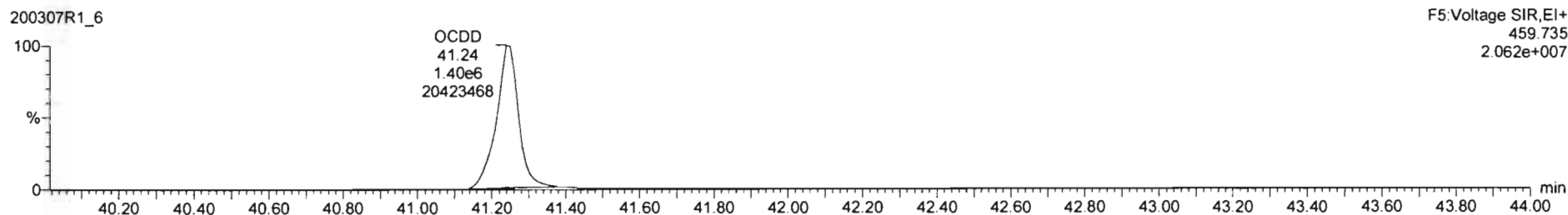
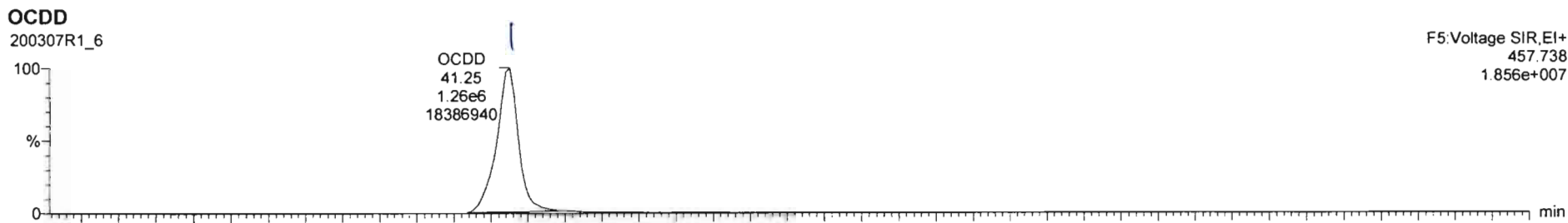
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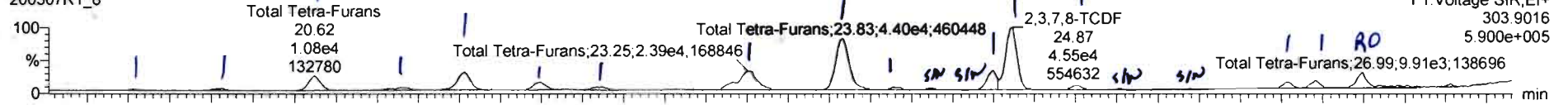
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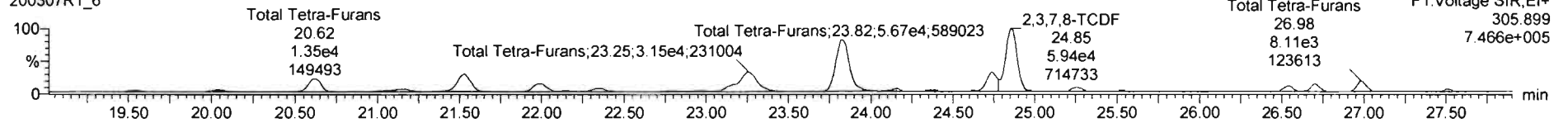
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2,3,7,8-TCDF

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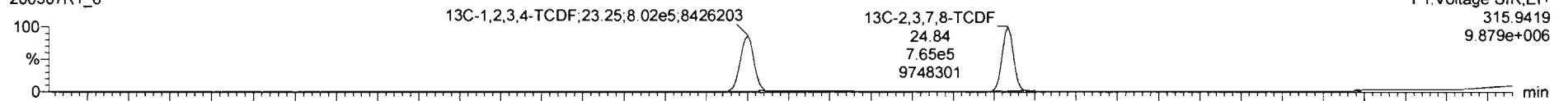


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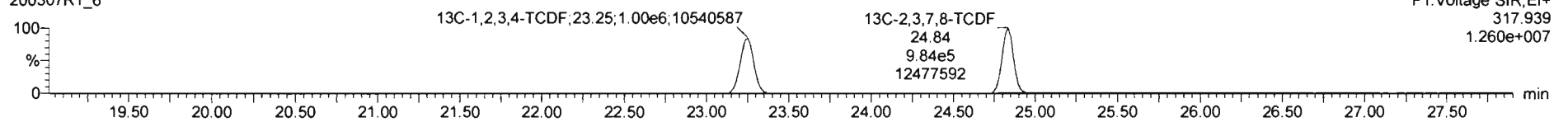


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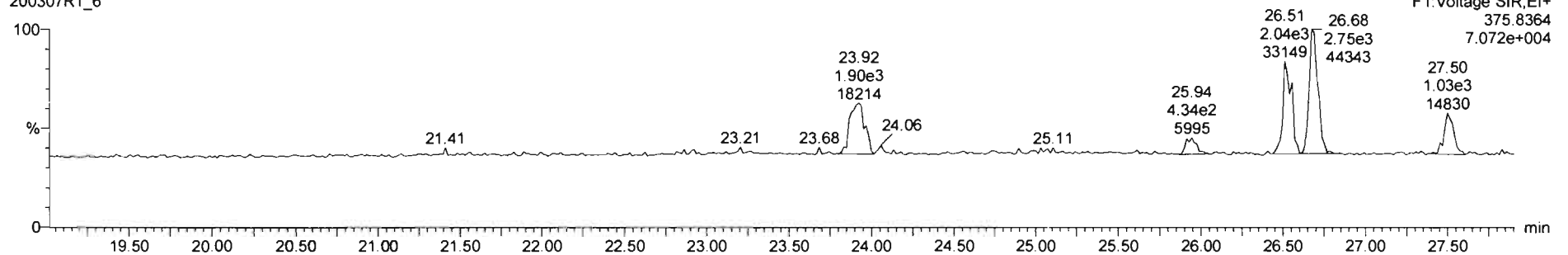


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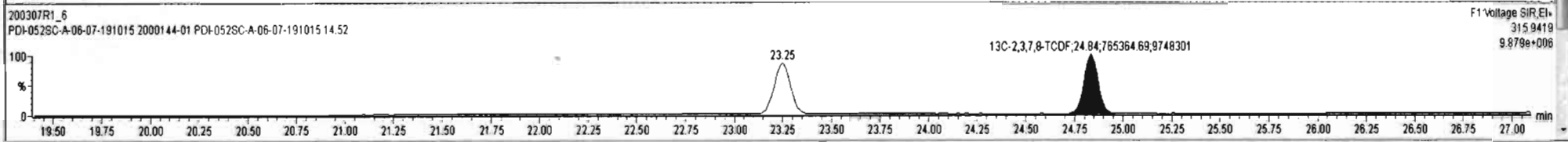
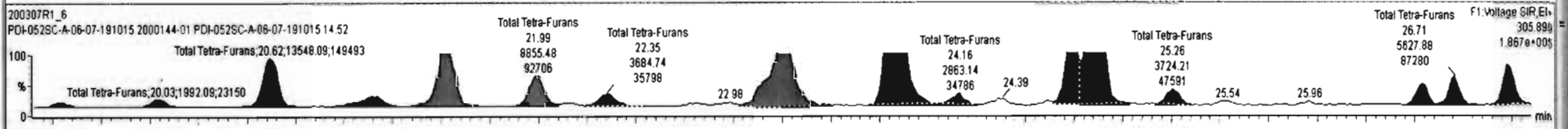
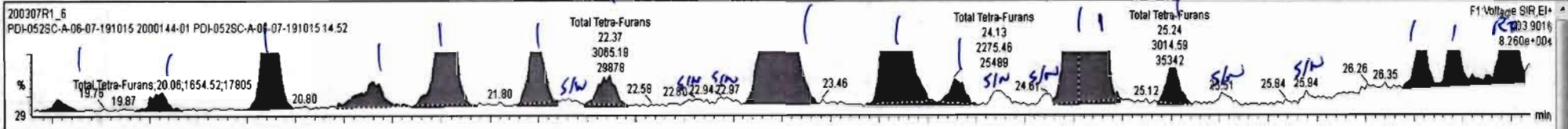
DPE1

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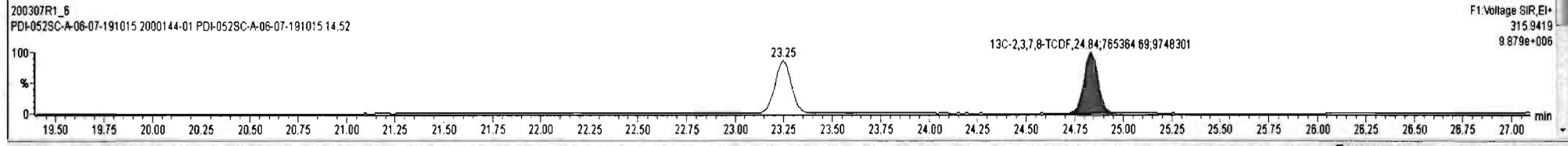
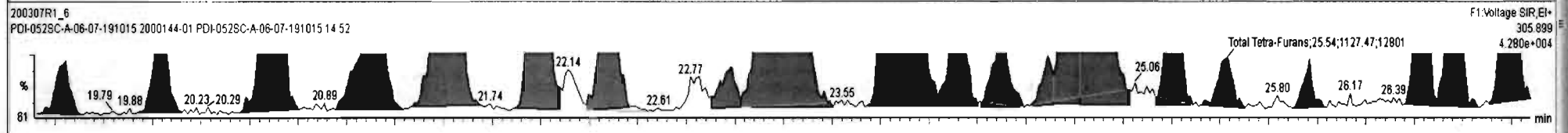
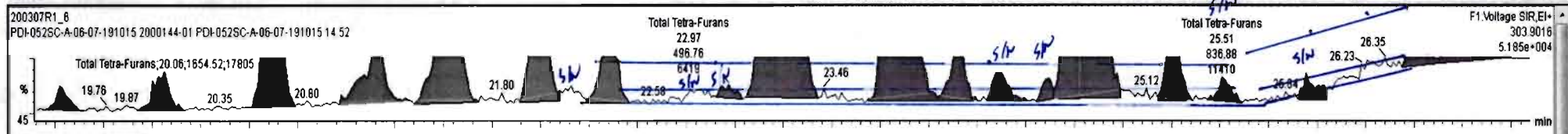
#	Name	Resp	RA	n/y	RRF	wt/wt	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9835	10.037	24.62		0.000		NO	1.106		0.126	1.587
40	Total Penta-Dioxins				0.9212	10.037	29.96		0.000		NO	3.871		0.201	4.084
41	Total Hexa-Dioxins				0.9844	10.037	33.63		0.000		NO	22.78		0.144	23.11
42	Total Hepta-Dioxins				1.0061	10.037	37.64		0.000		NO	158.2		0.398	158.2
43	Total Tetra-Furans				0.9154	10.037	23.81		0.000		NO	51.91		0.183	53.73

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	43 Total Tetra-Furans	23.81	19.52	8.164e2	1.151e3	0.770	0.71	NO	0.24489	0.24489
2	43 Total Tetra-Furans	23.81	20.06	1.655e3	1.992e3	0.770	0.83	NO	0.45379	0.45379
3	43 Total Tetra-Furans	23.81	20.62	1.079e4	1.355e4	0.770	0.80	NO	3.0282	3.0282
4	43 Total Tetra-Furans	23.81	21.16	3.419e3	4.336e3	0.770	0.79	NO	0.96521	0.96521
5	43 Total Tetra-Furans	23.81	21.53	1.568e4	1.951e4	0.770	0.80	NO	4.3791	4.3791
6	43 Total Tetra-Furans	23.81	21.89	6.400e3	8.855e3	0.770	0.72	NO	1.8984	1.8984
7	43 Total Tetra-Furans	23.81	22.37	3.065e3	3.685e3	0.770	0.83	NO	0.83997	0.83997
8	43 Total Tetra-Furans	23.81	23.25	2.390e4	3.173e4	0.770	0.75	NO	6.9233	6.9233
9	43 Total Tetra-Furans	23.81	23.83	4.487e4	5.795e4	0.770	0.77	NO	12.794	12.794
10	43 Total Tetra-Furans	23.81	24.13	2.275e3	2.863e3	0.770	0.79	NO	0.63945	0.63945
11	43 Total Tetra-Furans	23.81	24.75	1.161e4	1.563e4	0.770	0.74	NO	3.3905	3.3905
12	8 2,3,7,8-TCDF	24.86	24.87	4.595e4	6.014e4	0.770	0.76	NO	13.201	13.201
13	43 Total Tetra-Furans	23.81	25.24	3.015e3	3.724e3	0.770	0.81	NO	0.83858	0.83858
14	43 Total Tetra-Furans	23.81	26.54	3.882e3	4.425e3	0.770	0.88	NO	1.0337	1.0337
15	43 Total Tetra-Furans	23.81	26.71	4.645e3	5.628e3	0.770	0.83	NO	1.2784	1.2784
16	43 Total Tetra-Furans	23.81	26.99	9.909e3	8.260e3	0.770	1.20	YES	1.8193	0.00000



#	Name	Resp	RA	n/y	RRF	wt/wt	Pred RT	RT	Pred R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	40	Total Tetra-Dioxins			0.9835	10.037	24.62		0.000		NO	1.106		0.126	1.587
40	40	Total Penta-Dioxins			0.9212	10.037	29.96		0.000		NO	3.871		0.201	4.084
41	41	Total Hexa-Dioxins			0.9844	10.037	33.63		0.000		NO	22.76		0.144	23.11
42	42	Total Hepta-Dioxins			1.0061	10.037	37.84		0.000		NO	158.2		0.398	158.2
43	43	Total Tetra-Furans			0.8154	10.037	23.61		0.000		NO	51.58		0.183	53.97

#	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	8.164e2	1.151e3	0.770	0.71	NO	0.24489	0.24489
2	43 Total Tetra-Furans	23.61	20.06	1.855e3	1.992e3	0.770	0.83	NO	0.45379	0.45379
3	43 Total Tetra-Furans	23.61	20.62	1.079e4	1.355e4	0.770	0.80	NO	3.0282	3.0282
4	43 Total Tetra-Furans	23.61	21.16	3.457e3	4.338e3	0.770	0.80	NO	0.96985	0.96985
5	43 Total Tetra-Furans	23.61	21.53	1.523e4	1.951e4	0.770	0.78	NO	4.3229	4.3229
6	43 Total Tetra-Furans	23.61	21.99	5.880e3	8.855e3	0.770	0.86	NO	1.8337	1.8337
7	43 Total Tetra-Furans	23.61	22.37	2.757e3	3.846e3	0.770	0.72	NO	0.82161	0.82161
8	43 Total Tetra-Furans	23.61	22.97	4.968e2	9.765e2	0.770	0.51	YES	0.14210	0.00000
9	43 Total Tetra-Furans	23.61	23.25	2.390e4	3.149e4	0.770	0.76	NO	6.8926	6.8926
10	43 Total Tetra-Furans	23.61	23.83	4.404e4	5.688e4	0.770	0.78	NO	12.534	12.534
11	43 Total Tetra-Furans	23.61	24.13	2.018e3	2.215e3	0.770	0.91	YES	0.48796	0.00000
12	43 Total Tetra-Furans	23.61	24.36	1.284e3	1.770e3	0.770	0.73	NO	0.38000	0.38000
13	43 Total Tetra-Furans	23.61	24.61	5.954e2	7.116e2	0.770	0.84	NO	0.16264	0.16264
14	43 Total Tetra-Furans	23.61	24.75	1.153e4	1.549e4	0.770	0.74	NO	3.3617	3.3617
15	8 2,3,7,8-TCDF	24.96	24.87	4.546e4	5.938e4	0.770	0.77	NO	13.047	13.047
16	43 Total Tetra-Furans	23.61	25.24	2.866e3	3.495e3	0.770	0.82	NO	0.79157	0.79157
17	43 Total Tetra-Furans	23.61	25.51	8.369e2	1.127e3	0.770	0.74	NO	0.24444	0.24444
18	43 Total Tetra-Furans	23.61	25.94	5.735e2	8.663e2	0.770	0.84	NO	0.15678	0.15678
19	43 Total Tetra-Furans	23.61	26.54	3.882e3	4.425e3	0.770	0.88	NO	1.0337	1.0337
20	43 Total Tetra-Furans	23.61	26.71	4.845e3	5.628e3	0.770	0.83	NO	1.2784	1.2784
21	43 Total Tetra-Furans	23.61	26.99	9.909e3	8.113e3	0.770	1.22	YES	1.7870	0.00000



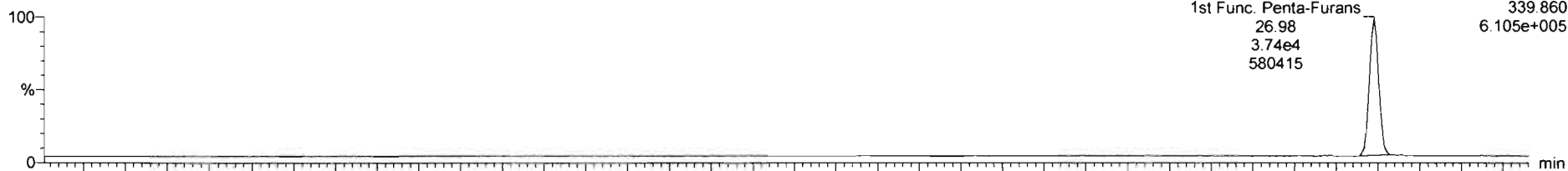
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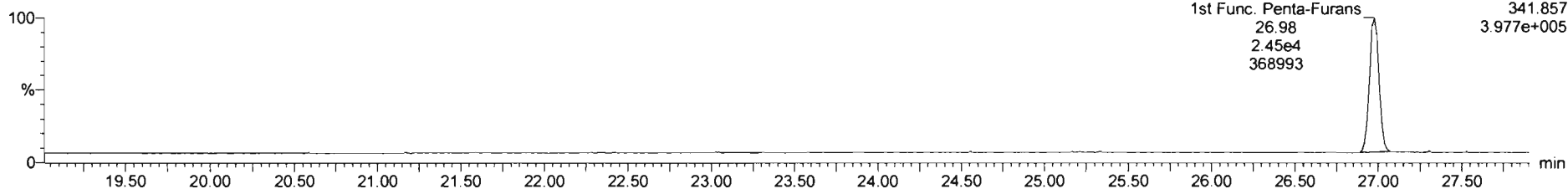
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1st Func. Penta-Furans

200307R1_6

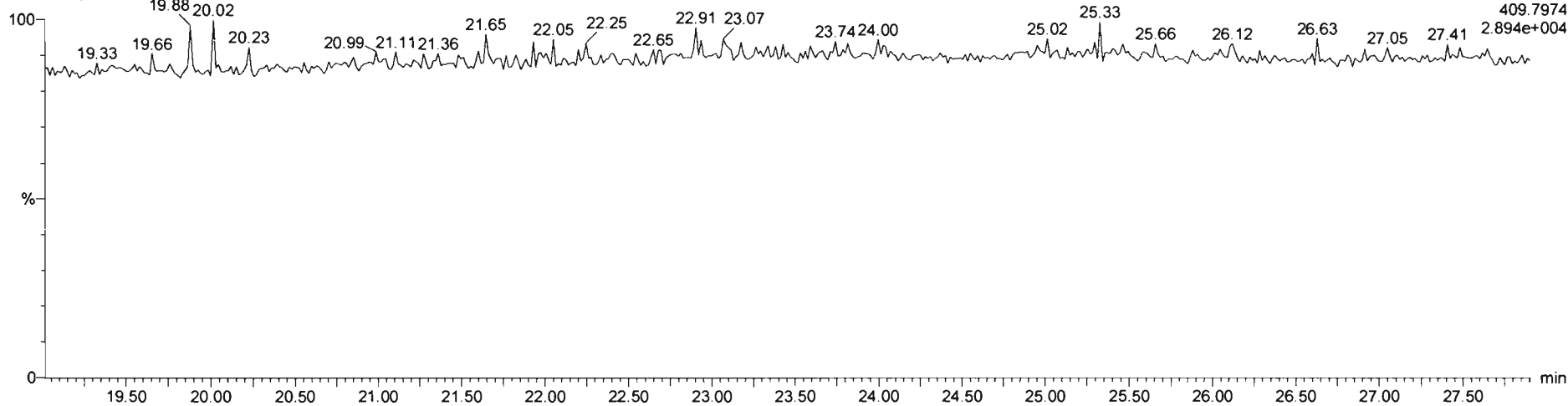


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DPE6

200307R1_6



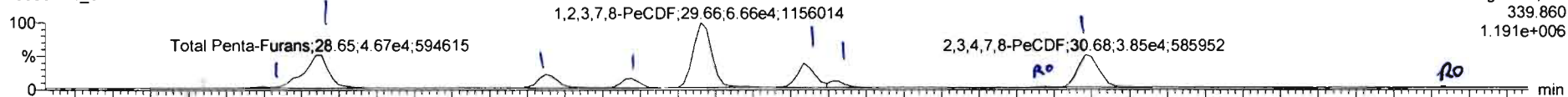
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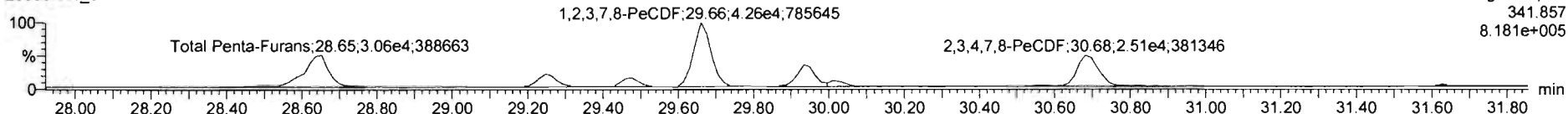
1,2,3,7,8-PeCDF

200307R1_6



F2: Voltage SIR, EI+
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1.191e+006

200307R1_6



F2: Voltage SIR, EI+
341.857
8.181e+005

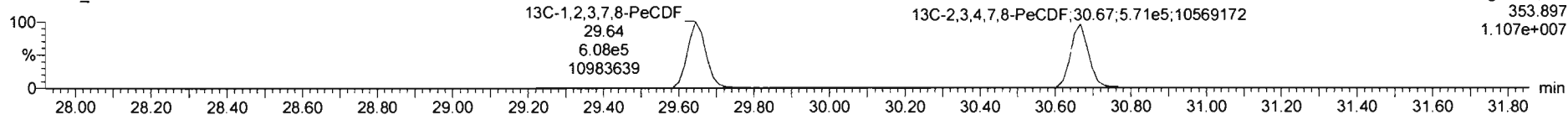
13C-1,2,3,7,8-PeCDF

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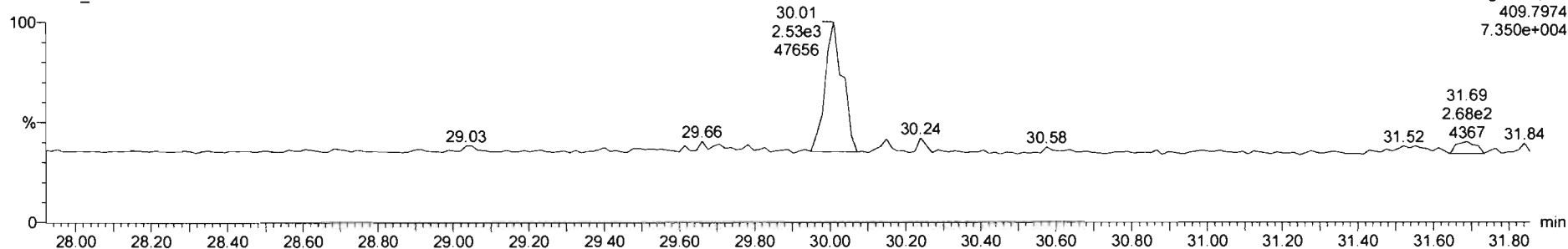
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F2: Voltage SIR, EI+
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1.107e+007

DPE2

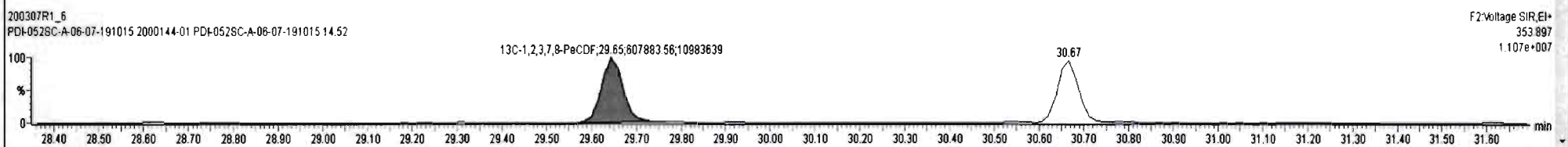
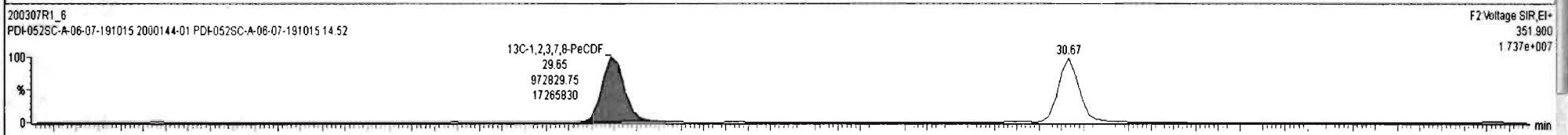
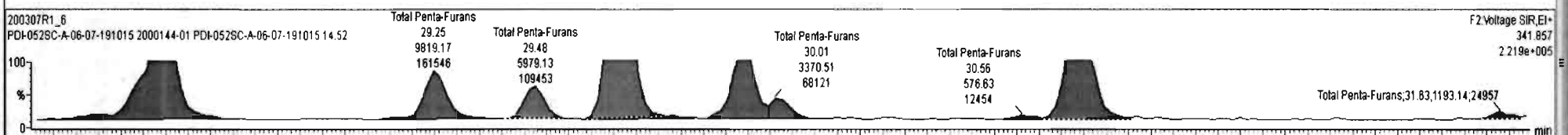
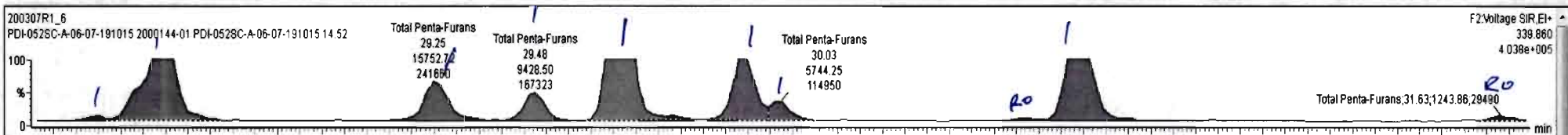
200307R1_6



F2: Voltage SIR, EI+
409.7974
7.350e+004

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred RT	RT	Pred R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
44	1st Func. Penta-Furans				0.9584	10.037	27.09		0.000		NO	8.439		0.0506	8.439
45	Total Penta-Furans				0.9584	10.037	29.27		0.000		NO	46.31		0.135	46.74

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	45 Total Penta-Furans	29.27	29.50	1.451e3	1.019e3	1.550	1.42	NO	0.33678	0.33678
2	45 Total Penta-Furans	29.27	28.65	4.703e4	3.057e4	1.550	1.54	NO	10.580	10.580
3	45 Total Penta-Furans	29.27	29.25	1.575e4	9.819e3	1.550	1.60	NO	3.4863	3.4863
4	45 Total Penta-Furans	29.27	29.48	9.428e3	5.979e3	1.550	1.58	NO	2.1006	2.1006
5	91 1,2,3,7,8-PeCDF	29.67	29.66	6.799e4	4.380e4	1.550	1.55	NO	14.687	14.687
8	45 Total Penta-Furans	29.27	29.93	2.373e4	1.505e4	1.550	1.58	NO	5.2876	5.2876
7	45 Total Penta-Furans	29.27	30.03	5.744e3	3.371e3	1.550	1.70	NO	1.2427	1.2427
8	45 Total Penta-Furans	29.27	30.56	6.592e2	5.766e2	1.550	1.14	YES	0.14785	0.00000
9	10 2,3,4,7,8-PeCDF	30.70	30.68	3.849e4	2.496e4	1.550	1.54	NO	8.5932	8.5932
10	45 Total Penta-Furans	29.27	31.63	1.244e3	1.193e3	1.550	1.04	YES	0.27899	0.00000

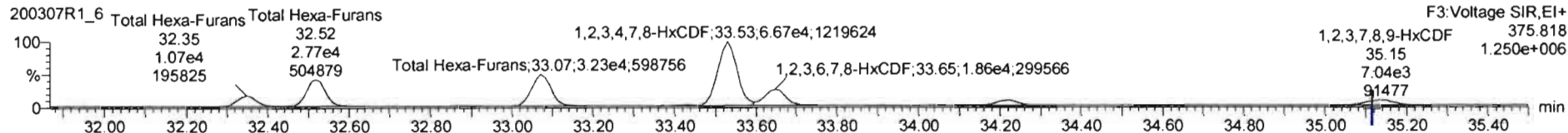
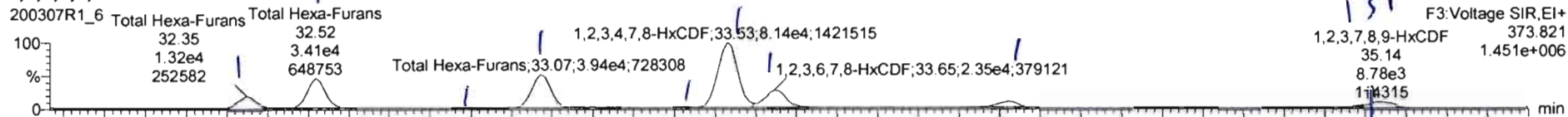


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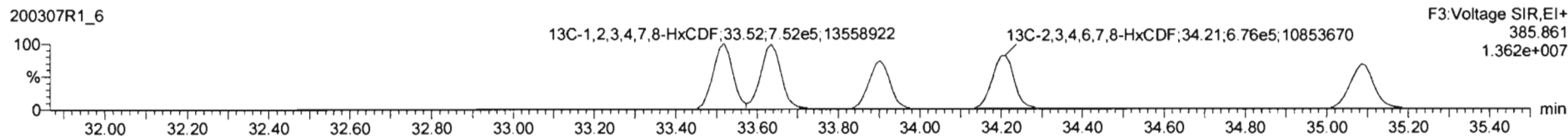
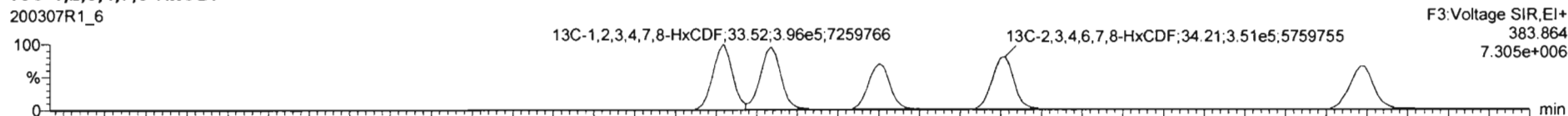
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Name: 200307R1_6, Date: 07-Mar-2020, Time: 13:41:06, ID: 2000144-01 PDI-052SC-A-06-07-191015 14.52, Description: PDI-052SC-A-06-07-191015

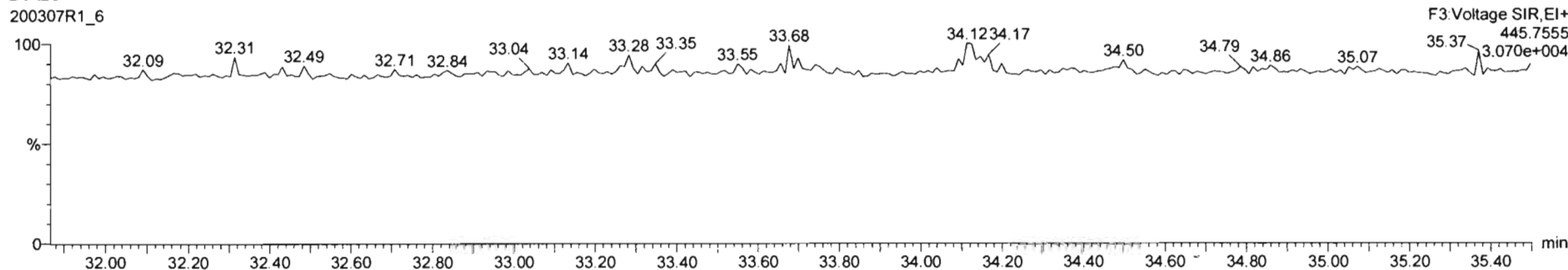
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13C-1,2,3,4,7,8-HxCDF



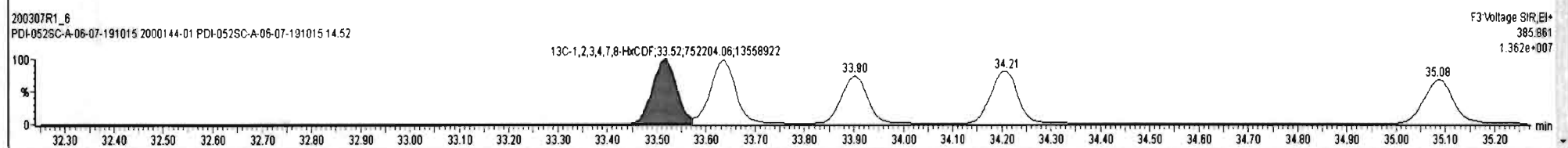
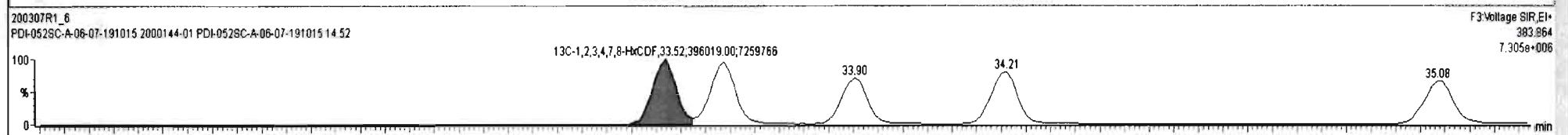
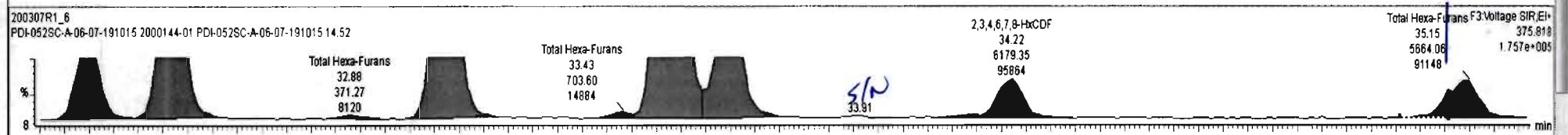
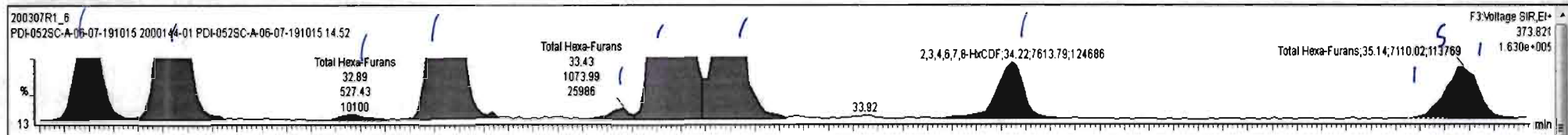
DPE3



01/19/2010 10:14:00 AM PDI052SC-A-06-07-191015 14.52

#	Name	Resp	RA	n/y	RRF	wt/mol	Pred RT	RT	Pred R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
44	1st Func. Penta-Furans				0.9594	10.037	27.09		0.000		NO	8.439		0.0506	8.439
45	45 Total Penta-Furans				0.9594	10.037	29.27		0.000		NO	46.31		0.135	46.74

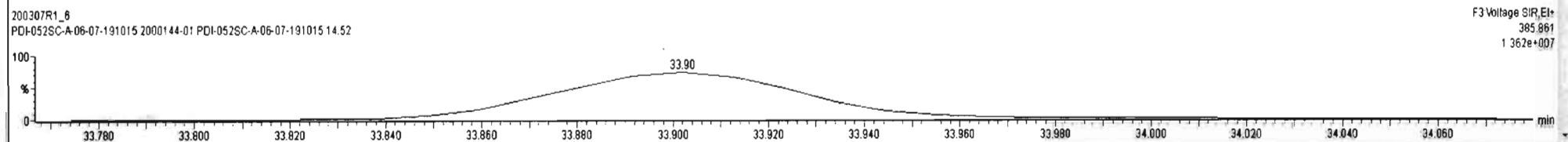
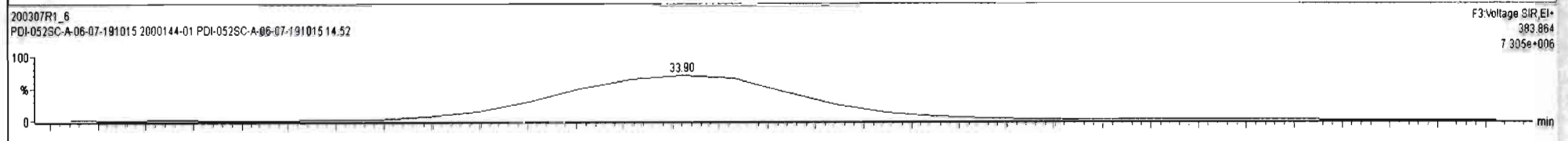
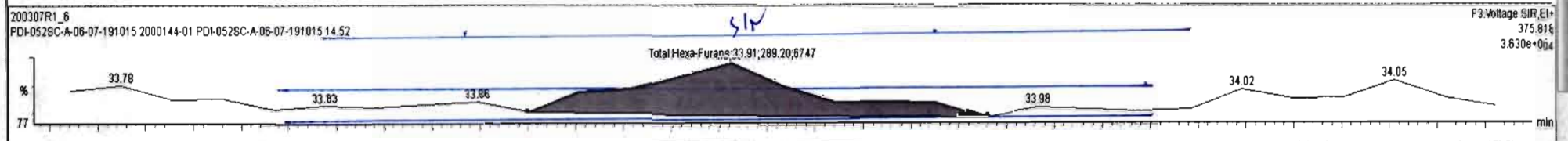
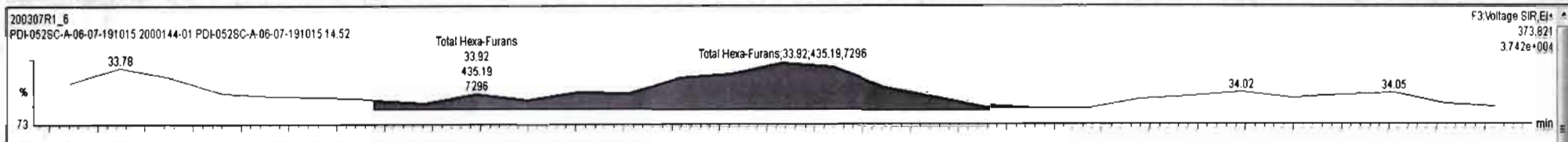
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	46 Total Hexa-Furans	33.58	32.35	1.324e4	1.075e4	1.240	1.23	NO	4.0845	4.0845
2	46 Total Hexa-Furans	33.56	32.52	3.408e4	2.767e4	1.240	1.23	NO	10.512	10.512
3	46 Total Hexa-Furans	33.58	32.89	5.274e2	3.713e2	1.240	1.42	NO	0.15299	0.15299
4	46 Total Hexa-Furans	33.56	33.07	3.939e4	3.232e4	1.240	1.22	NO	12.207	12.207
5	46 Total Hexa-Furans	33.56	33.43	1.074e3	7.036e2	1.240	1.53	YES	0.26830	0.00000
6	11 1,2,3,4,7,8-HxCDF	33.52	33.53	8.136e4	8.672e4	1.240	1.22	NO	24.756	24.756
7	12 1,2,3,6,7,8-HxCDF	33.85	33.65	2.352e4	1.861e4	1.240	1.26	NO	7.0705	7.0705
8	13 2,3,4,6,7,8-HxCDF	34.25	34.22	7.614e3	8.179e3	1.240	1.23	NO	2.4519	2.4519
9	14 1,2,3,7,8,9-HxCDF	35.08	35.11	1.804e3	1.318e3	1.240	1.22	NO	0.60262	0.60262
10	46 Total Hexa-Furans	33.56	35.14	7.110e3	5.664e3	1.240	1.26	NO	2.1746	2.1746



200307R1_6 - 2000144-01 PDI-052SC-A-06-07-191015 14.52 PDI-052SC-A-06-07-191015

#	Name	Resp	RA	n/y	RRF	wt/wt	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
44	1st Func. Penta-Furans				0.9594	10.037	27.09		0.000		NO	8.439		0.0506	8.439
45	Total Penta-Furans				0.9594	10.037	29.27		0.000		NO	46.31		0.135	46.74

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	Total Hexa-Furans	33.56	32.36	1.324e4	1.075e4	1.240	1.23	NO	4.0845	4.0845
2	Total Hexa-Furans	33.56	32.52	3.406e4	2.767e4	1.240	1.23	NO	10.512	10.512
3	Total Hexa-Furans	33.56	32.89	5.274e2	3.713e2	1.240	1.42	NO	0.15299	0.15299
4	Total Hexa-Furans	33.56	33.07	3.939e4	3.232e4	1.240	1.22	NO	12.207	12.207
5	Total Hexa-Furans	33.56	33.43	1.074e3	7.036e2	1.240	1.53	YES	0.26830	0.00000
6	1,2,3,4,7,8-HxCDF	33.52	33.53	8.136e4	6.672e4	1.240	1.22	NO	24.756	24.756
7	1,2,3,6,7,8-HxCDF	33.85	33.65	2.352e4	1.861e4	1.240	1.26	NO	7.0705	7.0705
8	Total Hexa-Furans	33.56	33.92	4.352e2	2.892e2	1.240	1.50	YES	0.11026	0.00000
9	1,2,3,4,6,7,8-HxCDF	34.25	34.22	7.614e3	6.179e3	1.240	1.23	NO	2.4519	2.4519
10	1,2,3,7,8,9-HxCDF	35.08	35.14	8.780e3	7.039e3	1.240	1.25	NO	3.2646	3.2646



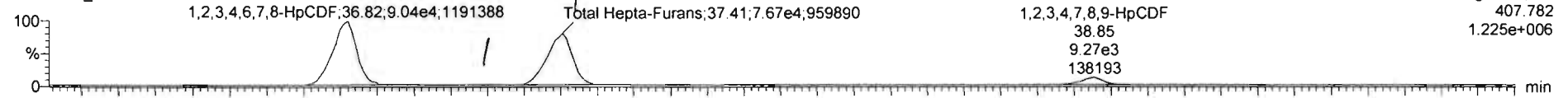
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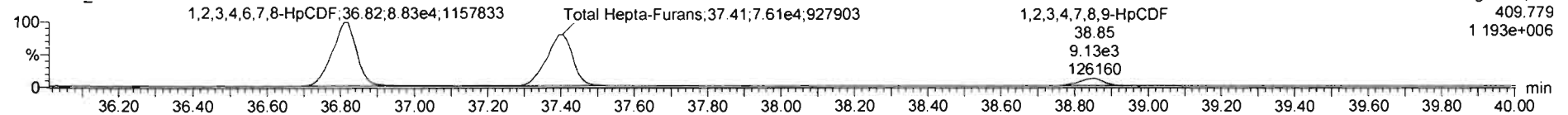
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200307R1_6

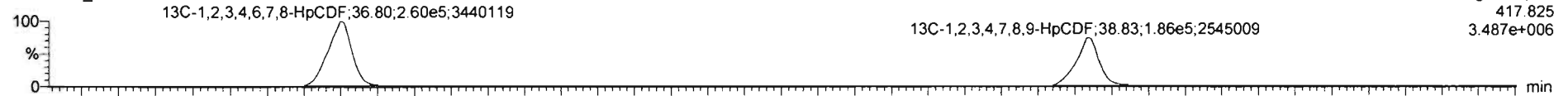


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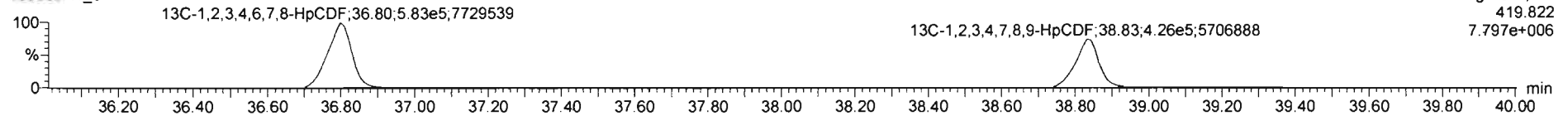


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200307R1_6

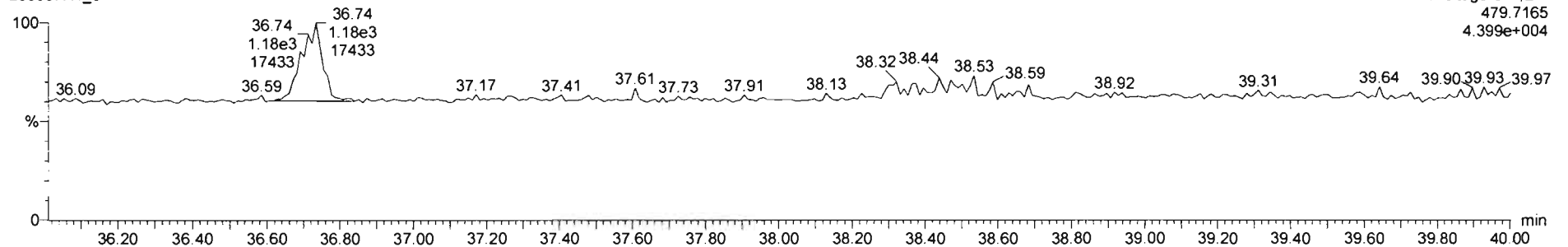


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DPE4

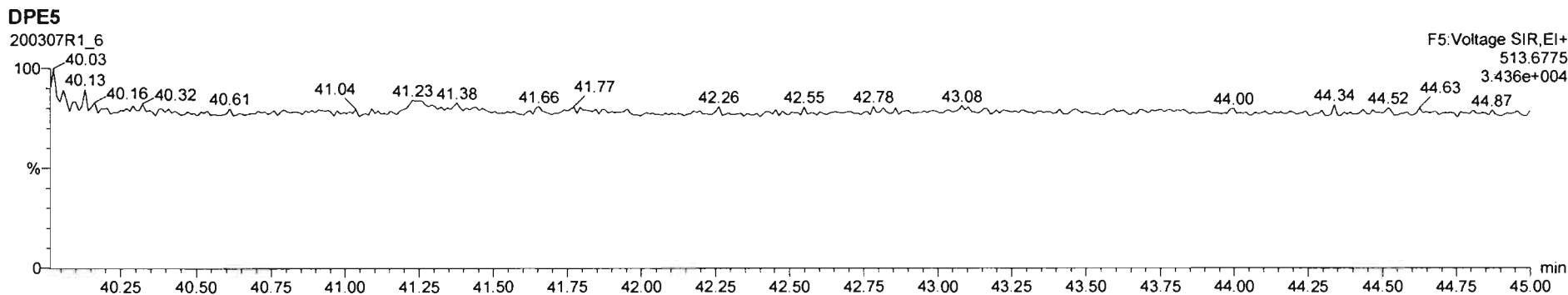
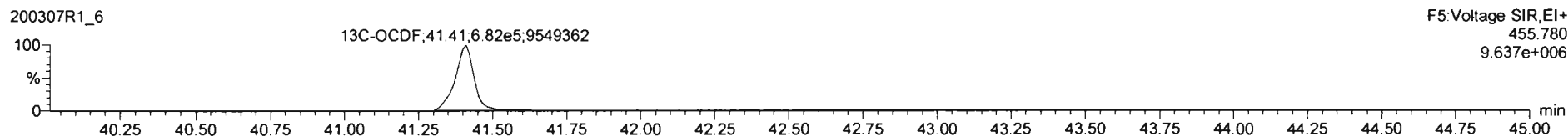
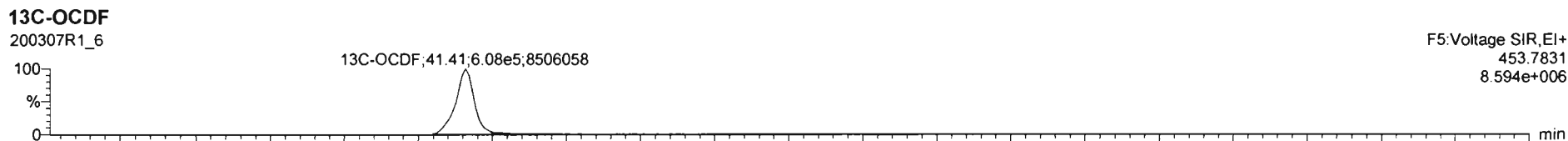
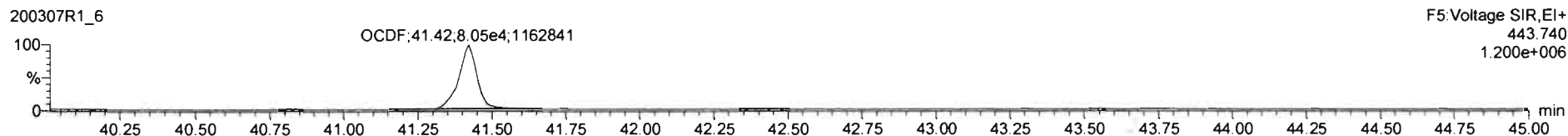
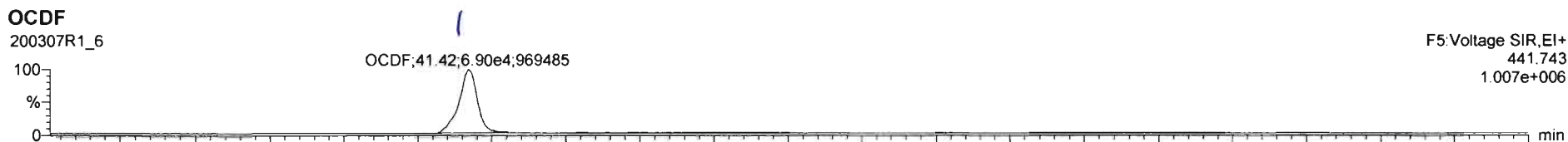
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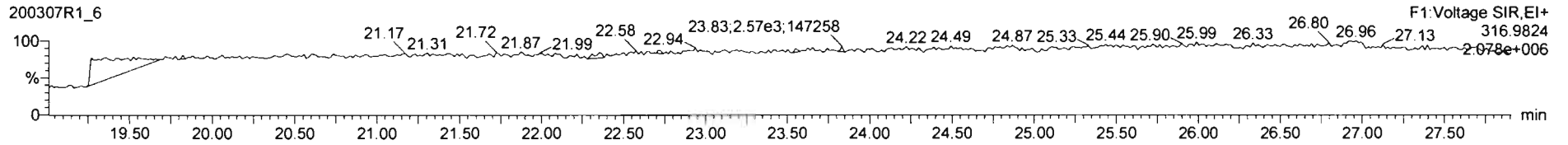
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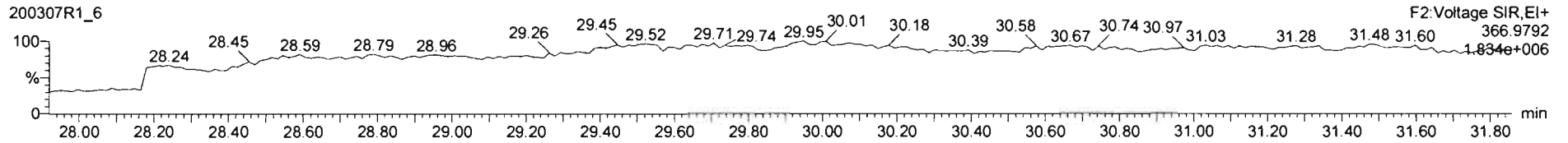
PFK1

200307R1_6



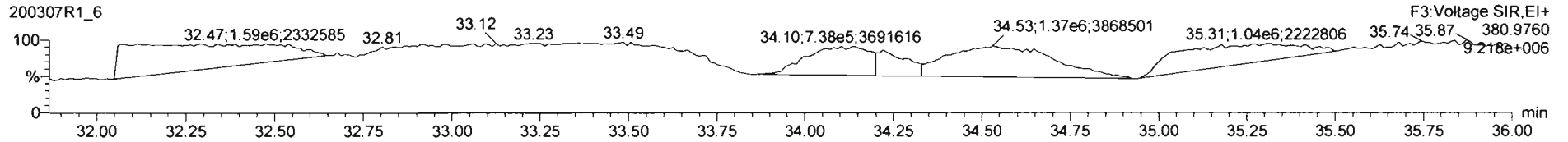
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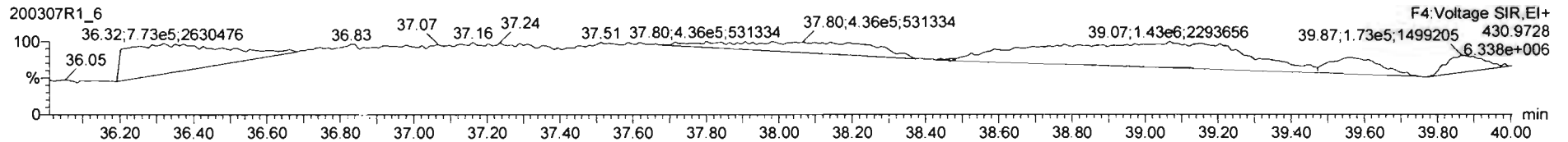
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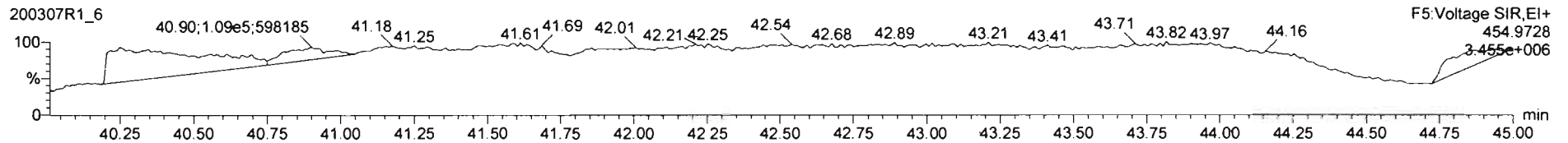
PFK4

200307R1_6



PFK5

200307R1_6



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Printed: Thursday, March 26, 2020 10:47:39 Pacific Daylight Time

GPB 03/26/2020

C1 03/26/2020

Method: Untitled 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\cb5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

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1	1 2,3,7,8-TCDD	3.50e3	0.67	NO	0.983	10.010	25.811	25.80	1.001	1.001	0.52790		0.0997	0.528
2	2 1,2,3,7,8-PeCDD	2.74e3	0.64	NO	0.921	10.010	31.009	31.00	1.001	1.001	0.57716		0.135	0.577
3	3 1,2,3,4,7,8-HxCDD	1.65e3	1.37	NO	1.13	10.010	34.381	34.38	1.000	1.000	0.33288		0.0922	0.333
4	4 1,2,3,6,7,8-HxCDD	8.98e3	1.23	NO	0.984	10.010	34.477	34.49	1.000	1.000	1.7724		0.0939	1.77
5	5 1,2,3,7,8,9-HxCDD	4.27e3	1.22	NO	0.967	10.010	34.753	34.76	1.000	1.001	0.94192		0.109	0.942
6	6 1,2,3,4,6,7,8-HpCDD	2.04e5	1.02	NO	1.01	10.010	38.216	38.23	1.000	1.001	51.753		0.265	51.8
7	7 OCDD	2.21e6	0.92	NO	1.05	10.010	41.240	41.25	1.000	1.000	650.51		0.295	651
8	8 2,3,7,8-TCDF	1.01e5	0.76	NO	0.915	10.010	24.832	24.84	1.001	1.001	11.794	(9.49)	0.101	11.8
9	9 1,2,3,7,8-PeCDF	8.50e4	1.55	NO	0.959	10.010	29.666	29.66	1.001	1.001	11.778		0.119	11.8
10	10 2,3,4,7,8-PeCDF	3.41e4	1.52	NO	1.00	10.010	30.677	30.68	1.000	1.000	4.6180		0.114	4.62
11	11 1,2,3,4,7,8-HxCDF	1.11e5	1.19	NO	1.04	10.010	33.519	33.53	1.000	1.000	19.013		0.109	19.0
12	12 1,2,3,6,7,8-HxCDF	3.35e4	1.21	NO	1.01	10.010	33.646	33.65	1.000	1.000	5.4158		0.112	5.42
13	13 2,3,4,6,7,8-HxCDF	1.17e4	1.15	NO	1.09	10.010	34.234	34.22	1.001	1.001	1.8233		0.110	1.82
14	14 1,2,3,7,8,9-HxCDF	7.29e3	1.16	NO	1.03	10.010	35.084	35.14	1.000	1.002	1.3901		0.153	1.39
15	15 1,2,3,4,6,7,8-HpCDF	1.40e5	1.02	NO	1.05	10.010	36.836	36.81	1.001	1.000	27.991		0.126	28.0
16	16 1,2,3,4,7,8,9-HpCDF	1.65e4	1.03	NO	1.21	10.010	38.833	38.85	1.000	1.001	4.2045		0.153	4.20
17	17 OCDF	1.32e5	0.89	NO	0.947	10.010	41.421	41.43	1.000	1.000	35.733		0.144	35.7
18	18 13C-2,3,7,8-TCDD	1.35e6	0.80	NO	1.18	10.010	25.797	25.78	1.029	1.028	193.23	96.7	0.213	
19	19 13C-1,2,3,7,8-PeCDD	1.03e6	0.64	NO	0.864	10.010	30.993	30.99	1.236	1.236	202.68	101	0.213	
20	20 13C-1,2,3,4,7,8-HxCDD	8.73e5	1.28	NO	0.754	10.010	34.373	34.37	1.014	1.014	190.33	95.3	0.364	
21	21 13C-1,2,3,6,7,8-HxCDD	1.03e6	1.27	NO	0.925	10.010	34.482	34.48	1.017	1.017	182.70	91.4	0.296	
22	22 13C-1,2,3,7,8,9-HxCDD	9.37e5	1.26	NO	0.829	10.010	34.743	34.74	1.025	1.025	185.69	92.9	0.331	
23	23 13C-1,2,3,4,6,7,8-HpCDD	7.83e5	1.06	NO	0.598	10.010	38.194	38.21	1.127	1.127	215.25	108	0.343	
24	24 13C-OCDD	1.29e6	0.89	NO	0.571	10.010	41.337	41.24	1.219	1.216	372.36	93.2	0.263	
25	25 13C-2,3,7,8-TCDF	1.86e6	0.78	NO	1.09	10.010	24.816	24.81	0.990	0.989	187.79	94.0	0.319	
26	26 13C-1,2,3,7,8-PeCDF	1.50e6	1.57	NO	0.876	10.010	29.661	29.65	1.183	1.182	188.07	94.1	0.378	
27	27 13C-2,3,4,7,8-PeCDF	1.47e6	1.58	NO	0.844	10.010	30.674	30.67	1.223	1.223	191.02	95.6	0.393	
28	28 13C-1,2,3,4,7,8-HxCDF	1.12e6	0.52	NO	1.00	10.010	33.522	33.52	0.989	0.989	184.79	92.5	0.374	
29	29 13C-1,2,3,6,7,8-HxCDF	1.22e6	0.53	NO	1.12	10.010	33.631	33.64	0.992	0.992	179.58	89.9	0.335	
30	30 13C-2,3,4,6,7,8-HxCDF	1.18e6	0.52	NO	1.04	10.010	34.211	34.20	1.009	1.009	186.64	93.4	0.362	
31	31 13C-1,2,3,7,8,9-HxCDF	1.02e6	0.52	NO	0.873	10.010	35.082	35.08	1.035	1.035	192.24	96.2	0.429	

Dataset: U:\VG12.PRO\Results\200307R1\200307R1-7B.qld

Last Altered: Thursday, March 26, 2020 10:45:34 Pacific Daylight Time

Printed: Thursday, March 26, 2020 10:47:39 Pacific Daylight Time

Name: 200307R1_7, Date: 07-Mar-2020, Time: 14:28:31, ID: B0B0031-DUP1 Duplicate 14.48, Description: Duplicate

#	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	9.52e5	0.44	NO	0.771	10.010	36.794	36.80	1.085	1.085	203.08	102	0.288	
33	33 13C-1,2,3,4,7,8,9-HpCDF	6.49e5	0.45	NO	0.519	10.010	38.875	38.83	1.147	1.145	205.49	103	0.428	
34	34 13C-OCDF	1.56e6	0.89	NO	0.696	10.010	41.516	41.42	1.225	1.222	368.79	92.3	0.317	
35	35 37Cl-2,3,7,8-TCDD	5.42e5			1.17	10.010	25.807	25.80	1.029	1.029	78.330	98.0	0.0817	
36	36 13C-1,2,3,4-TCDD	1.18e6	0.80	NO	1.00	10.010	25.050	25.08	1.000	1.000	199.81	100	0.252	
37	37 13C-1,2,3,4-TCDF	1.82e6	0.80	NO	1.00	10.010	23.190	23.22	1.000	1.000	199.81	100	0.347	
38	38 13C-1,2,3,4,6,9-HxCDF	1.22e6	0.52	NO	1.00	10.010	33.880	33.90	1.000	1.000	199.81	100	0.374	
39	39 Total Tetra-Dioxins				0.983	10.010	24.620		0.000		2.9759		0.0997	2.98
40	40 Total Penta-Dioxins				0.921	10.010	29.960		0.000		3.7696		0.135	4.05
41	41 Total Hexa-Dioxins				0.984	10.010	33.635		0.000		18.977		0.102	19.0
42	42 Total Hepta-Dioxins				1.01	10.010	37.640		0.000		121.29		0.265	121
43	43 Total Tetra-Furans				0.915	10.010	23.610		0.000		48.629		0.101	49.7 P
44	44 1st Func. Penta-Furans				0.959	10.010	27.090		0.000		7.8477		0.0580	7.85 P
45	45 Total Penta-Furans				0.959	10.010	29.275		0.000		31.359		0.119	41.5 P
46	46 Total Hexa-Furans				1.09	10.010	33.555		0.000		51.128		0.114	51.1
47	47 Total Hepta-Furans				1.05	10.010	37.835		0.000		64.972		0.147	65.0
48	48 PFK1													

Dataset: U:\VG12.PRO\Results\200307R1\200307R1-7B.qld

Last Altered: Thursday, March 26, 2020 10:45:34 Pacific Daylight Time
 Printed: Thursday, March 26, 2020 10:47:39 Pacific Daylight Time

Method: Untitled 06 Mar 2020 12:03:08

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

Name: 200307R1_7, Date: 07-Mar-2020, Time: 14:28:31, ID: B0B0031-DUP1 Duplicate 14.48, Description: Duplicate

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	21.53	2.180e4	3.524e4	1.998e3	2.851e3	0.70	NO	4.849e3	0.73117	0.73117	0.0997
2	Total Tetra-Dioxins	21.92	9.036e3	1.122e4	8.739e2	1.005e3	0.87	NO	1.879e3	0.28332	0.28332	0.0997
3	Total Tetra-Dioxins	23.42	1.377e4	1.637e4	1.127e3	1.656e3	0.68	NO	2.783e3	0.41967	0.41967	0.0997
4	Total Tetra-Dioxins	23.70	8.737e3	8.097e3	6.454e2	8.211e2	0.79	NO	1.466e3	0.22112	0.22112	0.0997
5	Total Tetra-Dioxins	23.92	7.506e3	1.218e4	8.001e2	9.532e2	0.84	NO	1.753e3	0.26438	0.26438	0.0997
6	Total Tetra-Dioxins	25.08	4.801e3	5.121e3	3.316e2	4.228e2	0.78	NO	7.544e2	0.11376	0.11376	0.0997
7	Total Tetra-Dioxins	25.53	1.241e4	1.395e4	8.381e2	1.018e3	0.82	NO	1.856e3	0.27982	0.27982	0.0997
8	2,3,7,8-TCDD	25.80	2.122e4	3.004e4	1.401e3	2.100e3	0.67	NO	3.501e3	0.52790	0.52790	0.0997
9	Total Tetra-Dioxins	26.15	5.866e3	7.128e3	4.133e2	4.806e2	0.86	NO	8.939e2	0.13479	0.13479	0.0997

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.70	3.269e4	5.729e4	2.470e3	4.088e3	0.60	NO	6.558e3	1.3789	1.3789	0.135
2	Total Penta-Dioxins	29.20	1.210e4	1.835e4	5.803e2	9.594e2	0.60	NO	1.540e3	0.32374	0.32374	0.135
3	Total Penta-Dioxins	29.71	2.008e4	3.277e4	1.209e3	1.808e3	0.67	NO	3.017e3	0.63442	0.63442	0.135
4	Total Penta-Dioxins	29.89	1.279e4	2.418e4	6.667e2	1.113e3	0.60	NO	1.780e3	0.37420	0.37420	0.135
5	Total Penta-Dioxins	29.98	8.039e3	1.571e4	4.435e2	6.645e2	0.67	NO	1.108e3	0.23296	0.23296	0.135
6	Total Penta-Dioxins	30.19	1.114e4	1.605e4	5.137e2	1.239e3	0.41	YES	0.000e0	0.00000	0.27946	0.135
7	Total Penta-Dioxins	30.55	6.145e3	5.607e3	2.344e2	3.578e2	0.66	NO	5.922e2	0.12452	0.12452	0.135
8	1,2,3,7,8-PeCDD	31.00	2.175e4	3.231e4	1.067e3	1.678e3	0.64	NO	2.745e3	0.57716	0.57716	0.135
9	Total Penta-Dioxins	31.38	4.788e3	7.162e3	2.175e2	3.711e2	0.59	NO	5.887e2	0.12378	0.12378	0.135

Dataset: U:\VG12.PRO\Results\200307R1\200307R1-7B.qld

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Name: 200307R1_7, Date: 07-Mar-2020, Time: 14:28:31, ID: B0B0031-DUP1 Duplicate 14.48, Description: Duplicate

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.91	3.620e5	3.010e5	1.929e4	1.603e4	1.20	NO	3.533e4	7.5795	7.5795	0.102
2	Total Hexa-Dioxins	33.47	5.139e4	3.833e4	2.823e3	2.027e3	1.39	NO	4.850e3	1.0406	1.0406	0.102
3	Total Hexa-Dioxins	33.72	2.707e5	2.258e5	1.760e4	1.412e4	1.25	NO	3.173e4	6.8069	6.8069	0.102
4	Total Hexa-Dioxins	33.83	1.990e4	1.243e4	7.879e2	5.995e2	1.31	NO	1.387e3	0.29766	0.29766	0.102
5	1,2,3,4,7,8-HxCDD	34.38	1.753e4	1.237e4	9.516e2	6.953e2	1.37	NO	1.647e3	0.33288	0.33288	0.0922
6	1,2,3,6,7,8-HxCDD	34.49	8.044e4	7.652e4	4.960e3	4.021e3	1.23	NO	8.981e3	1.7724	1.7724	0.0939
7	Total Hexa-Dioxins	34.66	1.182e4	9.335e3	5.342e2	4.211e2	1.27	NO	9.553e2	0.20495	0.20495	0.102
8	1,2,3,7,8,9-HxCDD	34.76	3.970e4	3.178e4	2.346e3	1.926e3	1.22	NO	4.272e3	0.94192	0.94192	0.109

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.19	1.959e6	1.845e6	1.391e5	1.351e5	1.03	NO	2.742e5	69.532	69.532	0.265
2	1,2,3,4,6,7,8-HpCDD	38.23	1.340e6	1.297e6	1.028e5	1.013e5	1.02	NO	2.041e5	51.753	51.753	0.265

Dataset: U:\VG12.PRO\Results\200307R1\200307R1-7B.qld

Last Altered: Thursday, March 26, 2020 10:45:34 Pacific Daylight Time
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Name: 200307R1_7, Date: 07-Mar-2020, Time: 14:28:31, ID: B0B0031-DUP1 Duplicate 14.48, Description: Duplicate

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	19.49	1.423e4	1.660e4	9.423e2	1.230e3	0.77	NO	2.173e3	0.25429	0.25429	0.101
2	Total Tetra-Furans	20.02	2.045e4	2.218e4	1.659e3	1.912e3	0.87	NO	3.571e3	0.41792	0.41792	0.101
3	Total Tetra-Furans	20.57	1.235e5	1.622e5	1.069e4	1.356e4	0.79	NO	2.425e4	2.8385	2.8385	0.101
4	Total Tetra-Furans	21.08	2.523e4	3.551e4	3.947e3	5.039e3	0.78	NO	0.000e0	0.00000	1.0516	0.101
5	Total Tetra-Furans	21.49	1.606e5	2.116e5	1.554e4	2.079e4	0.75	NO	3.633e4	4.2516	4.2516	0.101
6	Total Tetra-Furans	21.95	7.192e4	1.025e5	6.691e3	8.896e3	0.75	NO	1.559e4	1.8242	1.8242	0.101
7	Total Tetra-Furans	22.10	7.484e3	1.263e4	5.800e2	7.343e2	0.79	NO	1.314e3	0.15383	0.15383	0.101
8	Total Tetra-Furans	22.32	2.835e4	3.952e4	2.807e3	3.944e3	0.71	NO	6.751e3	0.79016	0.79016	0.101
9	Total Tetra-Furans	22.76	6.330e3	7.972e3	5.241e2	6.889e2	0.76	NO	1.213e3	0.14197	0.14197	0.101
10	Total Tetra-Furans	22.95	6.828e3	1.015e4	6.444e2	9.223e2	0.70	NO	1.567e3	0.18337	0.18337	0.101
11	Total Tetra-Furans	23.15	6.677e4	8.028e4	4.362e3	5.310e3	0.82	NO	9.672e3	1.1320	1.1320	0.101
12	Total Tetra-Furans	23.24	1.787e5	2.447e5	1.994e4	2.678e4	0.74	NO	4.672e4	5.4676	5.4676	0.101
13	Total Tetra-Furans	23.79	4.740e5	6.036e5	4.322e4	5.622e4	0.77	NO	9.944e4	11.639	11.639	0.101
14	Total Tetra-Furans	24.12	2.371e4	2.895e4	2.000e3	2.497e3	0.80	NO	4.497e3	0.52638	0.52638	0.101
15	Total Tetra-Furans	24.34	1.380e4	1.813e4	1.240e3	1.650e3	0.75	NO	2.891e3	0.33833	0.33833	0.101
16	Total Tetra-Furans	24.60	8.492e3	1.035e4	4.423e2	6.290e2	0.70	NO	1.071e3	0.12538	0.12538	0.101
17	Total Tetra-Furans	24.72	1.650e5	2.126e5	1.249e4	1.639e4	0.76	NO	2.888e4	3.3806	3.3806	0.101
18	2,3,7,8-TCDF	24.84	5.618e5	7.165e5	4.357e4	5.720e4	0.76	NO	1.008e5	11.794	11.794	0.101
19	Total Tetra-Furans	25.23	3.656e4	4.760e4	2.800e3	3.506e3	0.80	NO	6.306e3	0.73804	0.73804	0.101
20	Total Tetra-Furans	25.53	1.178e4	1.398e4	7.732e2	9.262e2	0.83	NO	1.699e3	0.19890	0.19890	0.101
21	Total Tetra-Furans	26.53	1.424e4	2.178e4	9.703e2	1.284e3	0.76	NO	2.254e3	0.26385	0.26385	0.101
22	Total Tetra-Furans	26.71	2.075e4	2.264e4	1.304e3	1.599e3	0.82	NO	2.902e3	0.33968	0.33968	0.101
23	Total Tetra-Furans	26.98	1.027e5	1.266e5	7.258e3	8.378e3	0.87	NO	1.564e4	1.8301	1.8301	0.101

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	26.96	4.967e5	3.099e5	3.494e4	2.105e4	1.66	NO	5.599e4	7.8477	7.8477	0.0580

Dataset: U:\VG12.PRO\Results\200307R1\200307R1-7B.qld

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Name: 200307R1_7, Date: 07-Mar-2020, Time: 14:28:31, ID: B0B0031-DUP1 Duplicate 14.48, Description: Duplicate

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.50	2.967e4	1.944e4	1.874e3	1.148e3	1.63	NO	3.022e3	0.42361	0.42361	0.119
2	Total Penta-Furans	28.59	2.195e5	1.478e5	8.416e3	5.676e3	1.48	NO	0.000e0	0.00000	1.9752	0.119
3	Total Penta-Furans	28.64	5.541e5	3.367e5	3.503e4	2.341e4	1.50	NO	0.000e0	0.00000	8.1910	0.119
4	Total Penta-Furans	29.25	2.519e5	1.673e5	1.526e4	9.260e3	1.65	NO	2.452e4	3.4362	3.4362	0.119
5	Total Penta-Furans	29.31	2.598e4	1.421e4	8.497e2	5.779e2	1.47	NO	1.428e3	0.20009	0.20009	0.119
6	Total Penta-Furans	29.46	1.496e5	1.007e5	8.571e3	5.452e3	1.57	NO	1.402e4	1.9654	1.9654	0.119
7	1,2,3,7,8-PeCDF	29.66	8.993e5	6.209e5	5.163e4	3.334e4	1.55	NO	8.497e4	11.778	11.778	0.119
8	Total Penta-Furans	29.72	4.543e4	3.058e4	1.580e3	1.146e3	1.38	NO	2.726e3	0.38206	0.38206	0.119
9	Total Penta-Furans	29.93	3.468e5	2.187e5	1.882e4	1.280e4	1.47	NO	3.162e4	4.4325	4.4325	0.119
10	Total Penta-Furans	30.01	3.496e4	2.328e4	1.839e3	1.261e3	1.46	NO	3.100e3	0.43449	0.43449	0.119
11	Total Penta-Furans	30.56	2.009e4	1.645e4	1.107e3	6.891e2	1.61	NO	1.796e3	0.25180	0.25180	0.119
12	2,3,4,7,8-PeCDF	30.68	5.237e5	3.320e5	2.052e4	1.355e4	1.52	NO	3.407e4	4.6180	4.6180	0.114
13	Total Penta-Furans	30.70	4.587e5	3.008e5	1.342e4	8.444e3	1.59	NO	2.186e4	3.0643	3.0643	0.119
14	Total Penta-Furans	31.63	3.560e4	1.825e4	1.646e3	1.017e3	1.62	NO	2.663e3	0.37326	0.37326	0.119

P

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.35	2.320e5	1.818e5	1.155e4	9.370e3	1.23	NO	2.092e4	3.3712	3.3712	0.114
2	Total Hexa-Furans	32.52	5.595e5	4.459e5	2.833e4	2.337e4	1.21	NO	5.170e4	8.3316	8.3316	0.114
3	Total Hexa-Furans	33.07	6.938e5	5.880e5	3.630e4	3.009e4	1.21	NO	6.639e4	10.699	10.699	0.114
4	1,2,3,4,7,8-HxCDF	33.53	1.220e6	1.010e6	6.042e4	5.064e4	1.19	NO	1.111e5	19.013	19.013	0.109
5	1,2,3,6,7,8-HxCDF	33.65	3.176e5	2.780e5	1.835e4	1.516e4	1.21	NO	3.351e4	5.4158	5.4158	0.112
6	2,3,4,6,7,8-HxCDF	34.22	1.194e5	9.569e4	6.275e3	5.438e3	1.15	NO	1.171e4	1.8233	1.8233	0.110
7	1,2,3,7,8,9-HxCDF	35.14	1.047e5	9.295e4	3.914e3	3.379e3	1.16	NO	7.293e3	1.3901	1.3901	0.153
8	Total Hexa-Furans	35.15	1.074e5	9.104e4	3.799e3	2.926e3	1.30	NO	6.725e3	1.0837	1.0837	0.114

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200307R1\200307R1-7B.qld

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Name: 200307R1_7, Date: 07-Mar-2020, Time: 14:28:31, ID: B0B0031-DUP1 Duplicate 14.48, Description: Duplicate

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.81	9.984e5	9.868e5	7.073e4	6.910e4	1.02	NO	1.398e5	27.991	27.991	0.126
2	Total Hepta-Furans	37.20	1.116e4	1.081e4	8.056e2	7.855e2	1.03	NO	1.591e3	0.37879	0.37879	0.147
3	Total Hepta-Furans	37.40	9.376e5	9.366e5	6.822e4	6.786e4	1.01	NO	1.361e5	32.398	32.398	0.147
4	1,2,3,4,7,8,9-HpCDF	38.85	1.199e5	1.227e5	8.368e3	8.157e3	1.03	NO	1.653e4	4.2045	4.2045	0.153

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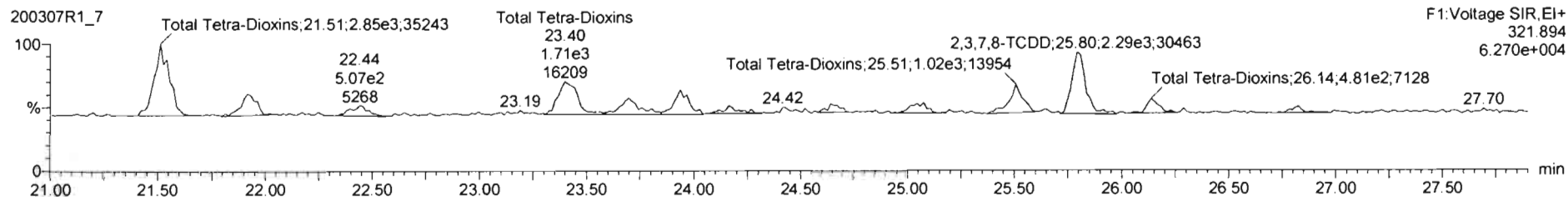
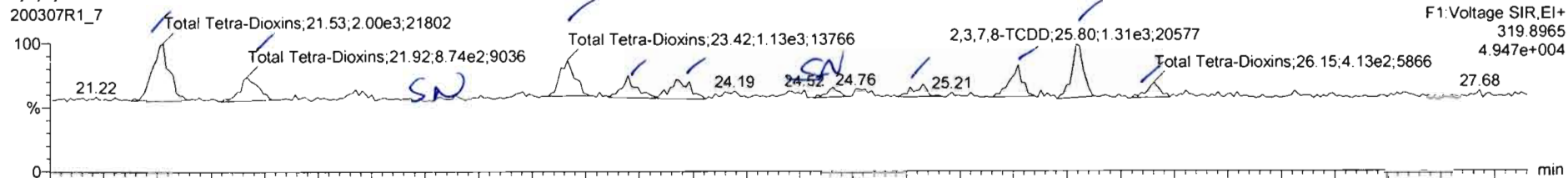
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Printed: Wednesday, March 11, 2020 11:44:27 Pacific Daylight Time

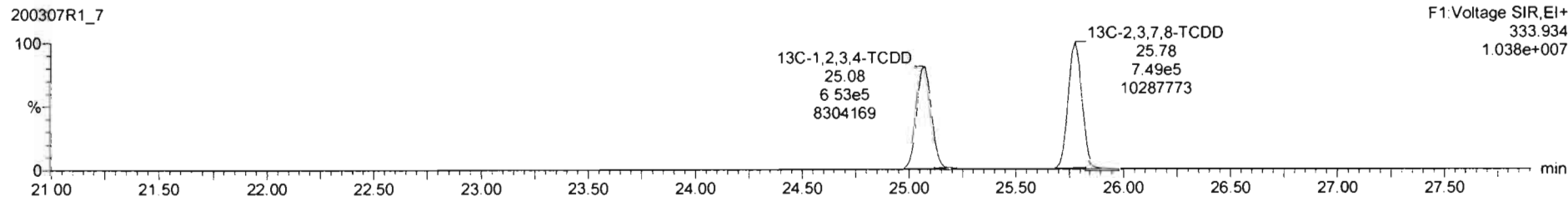
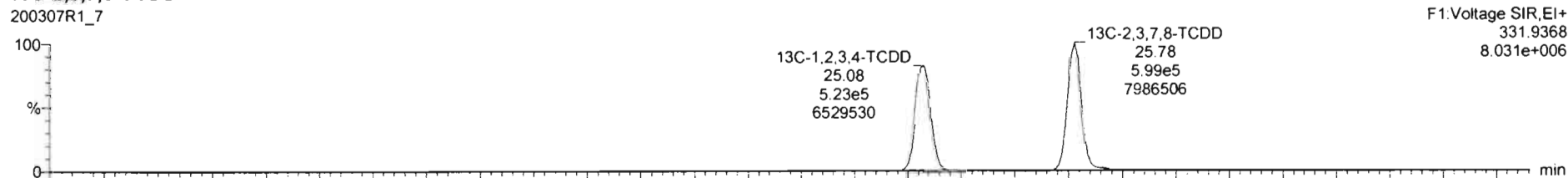
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Name: 200307R1_7, Date: 07-Mar-2020, Time: 14:28:31, ID: B0B0031-DUP1 Duplicate 14.48, Description: Duplicate

2,3,7,8-TCDD



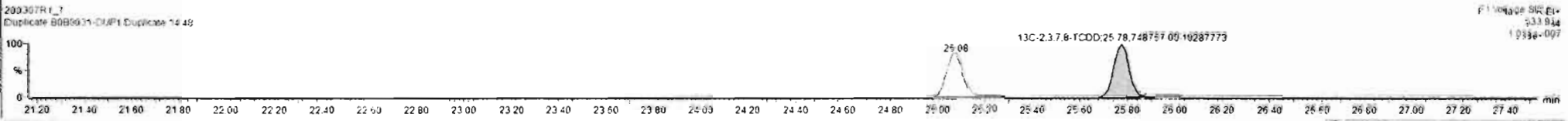
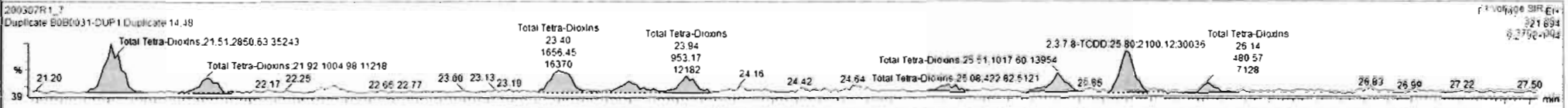
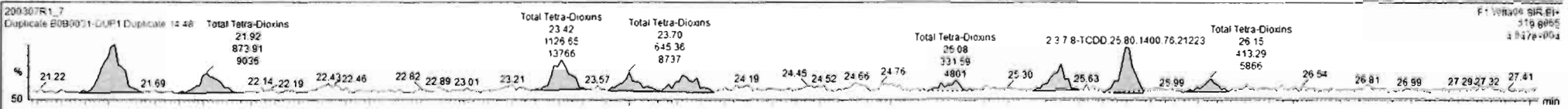
13C-2,3,7,8-TCDD



200307R1_7 - B0B0031-DUP1 Duplicate 14 48 - Duplicate

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.98	10.010			2.98	0.0997	2.98	
40 Total Penta-Dioxins				0.92	10.010			2.08	0.135	3.96	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Dioxins	21.53	1.598e3	2.651e3	0.70	NO	0.73117	0.73117
2 Total Tetra-Dioxins	21.92	8.739e2	1.005e3	0.87	NO	0.28332	0.28332
3 Total Tetra-Dioxins	23.42	1.127e3	1.856e3	0.68	NO	0.41967	0.41967
4 Total Tetra-Dioxins	23.70	6.454e2	8.211e2	0.79	NO	0.22112	0.22112
5 Total Tetra-Dioxins	23.92	8.001e2	9.532e2	0.84	NO	0.28428	0.28428
6 Total Tetra-Dioxins	25.08	3.316e2	4.228e2	0.78	NO	0.11376	0.11376
7 Total Tetra-Dioxins	25.53	8.381e2	1.018e3	0.82	NO	0.27982	0.27982
8 2,3,7,8-TCDD	25.80	1.401e3	2.100e3	0.67	NO	0.52790	0.52790
9 Total Tetra-Dioxins	26.15	4.133e2	4.809e2	0.86	NO	0.13479	0.13479



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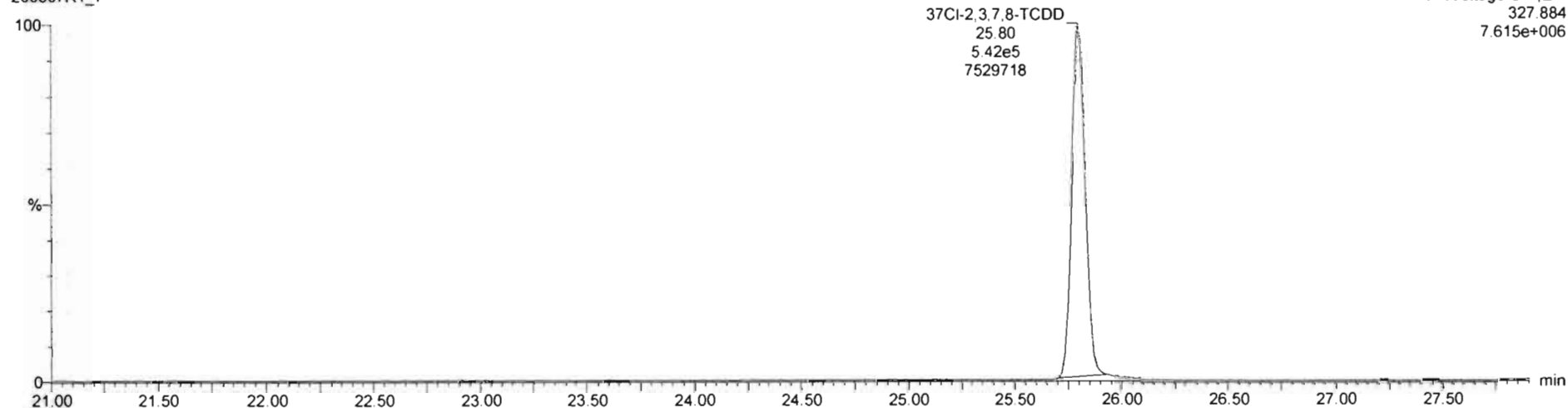
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Printed: Wednesday, March 11, 2020 11:44:27 Pacific Daylight Time

Name: 200307R1_7, Date: 07-Mar-2020, Time: 14:28:31, ID: B0B0031-DUP1 Duplicate 14.48, Description: Duplicate

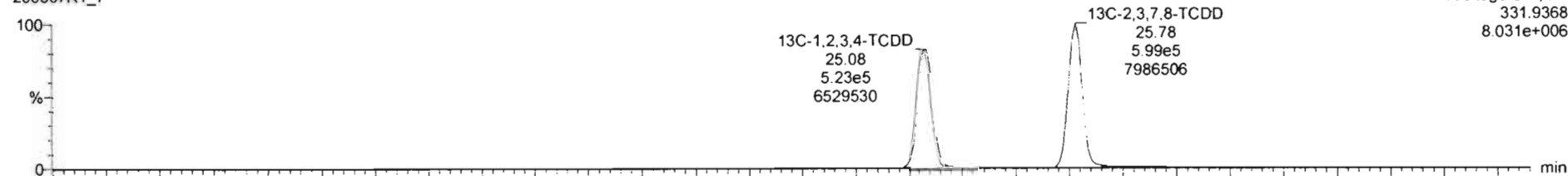
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200307R1_7

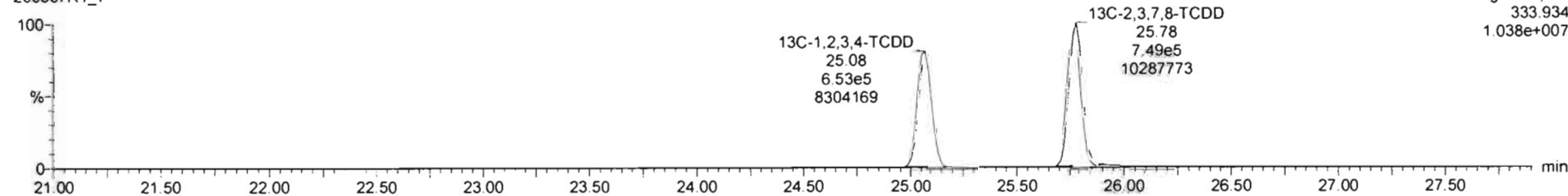


13C-1,2,3,4-TCDD

200307R1_7



200307R1_7



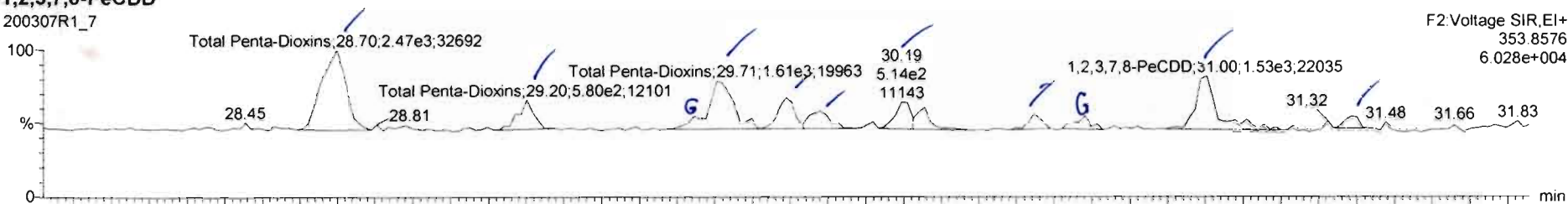
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Printed: Wednesday, March 11, 2020 11:44:27 Pacific Daylight Time

Name: 200307R1_7, Date: 07-Mar-2020, Time: 14:28:31, ID: B0B0031-DUP1 Duplicate 14.48, Description: Duplicate

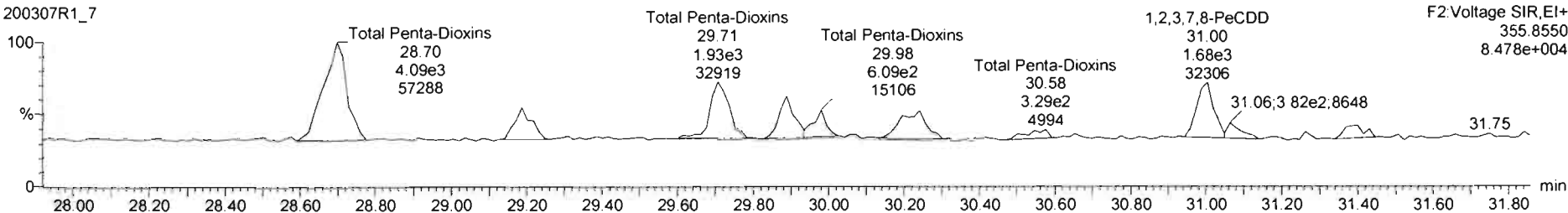
1,2,3,7,8-PeCDD

200307R1_7



F2: Voltage SIR, EI+
353.8576
6.028e+004

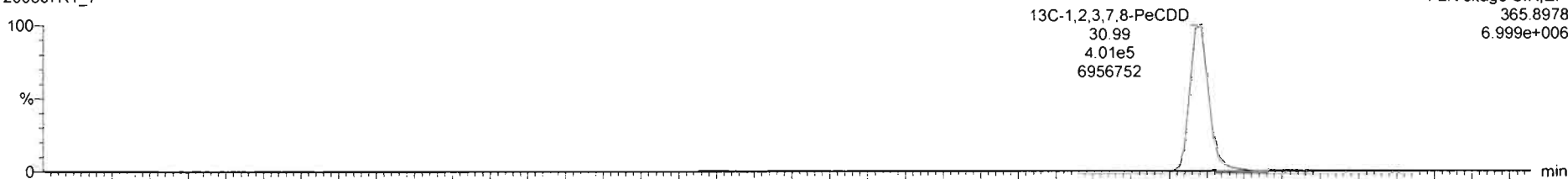
200307R1_7



F2: Voltage SIR, EI+
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8.478e+004

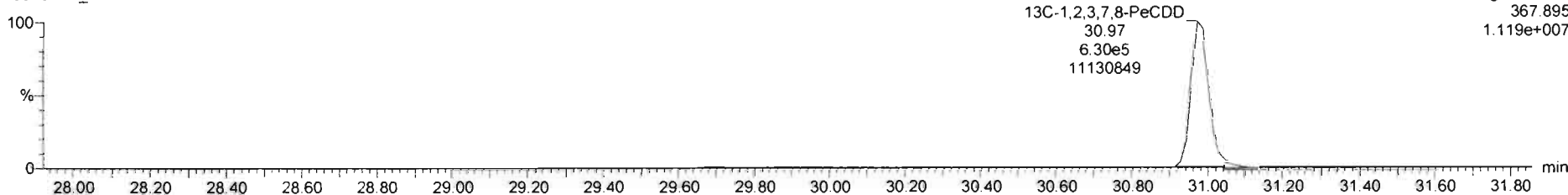
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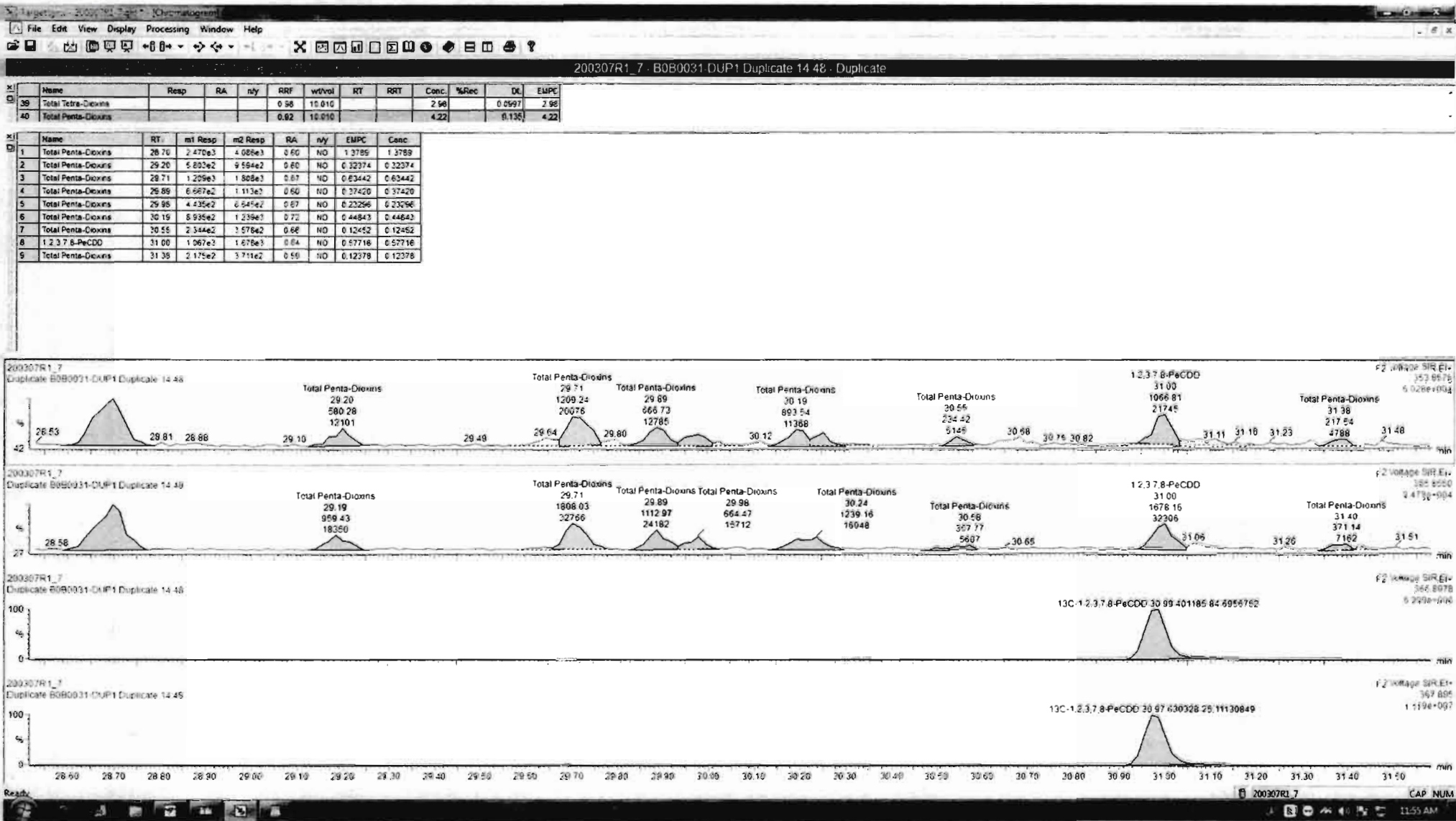


F2: Voltage SIR, EI+
365.8978
6.999e+006

200307R1_7



F2: Voltage SIR, EI+
367.895
1.119e+007



Dataset: Untitled

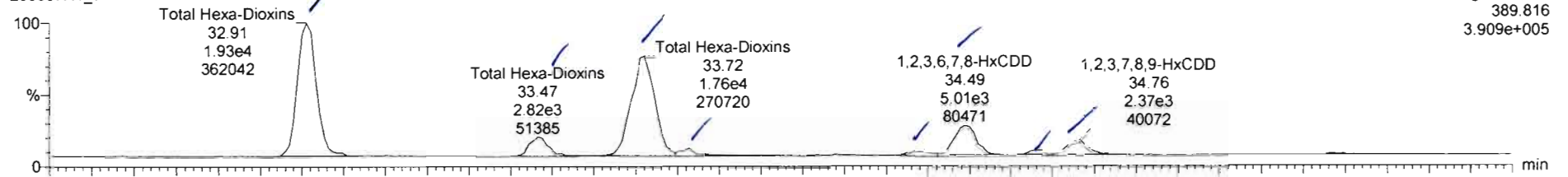
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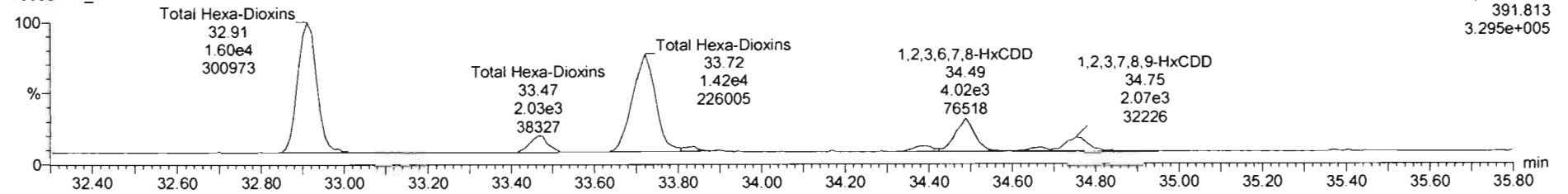
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1,2,3,4,7,8-HxCDD

200307R1_7

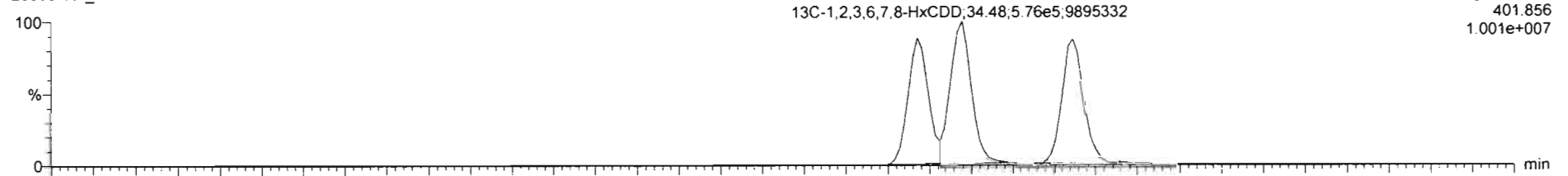


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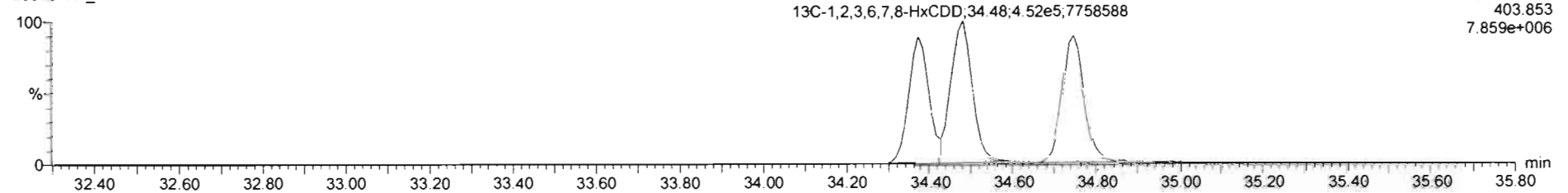


13C-1,2,3,4,7,8-HxCDD

200307R1_7

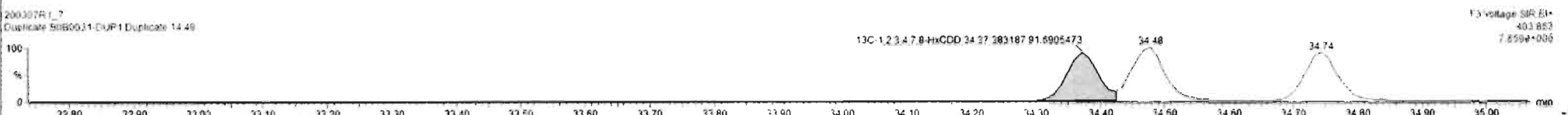
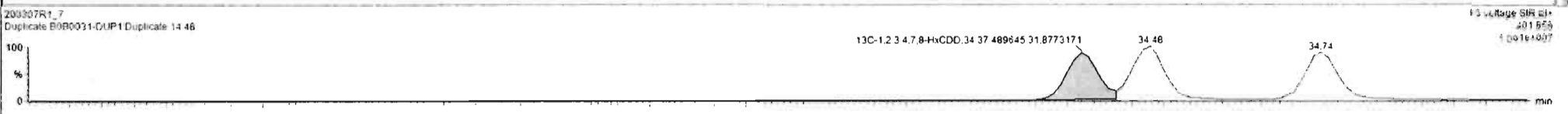
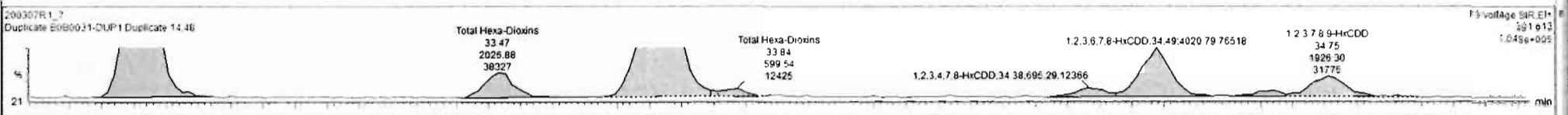
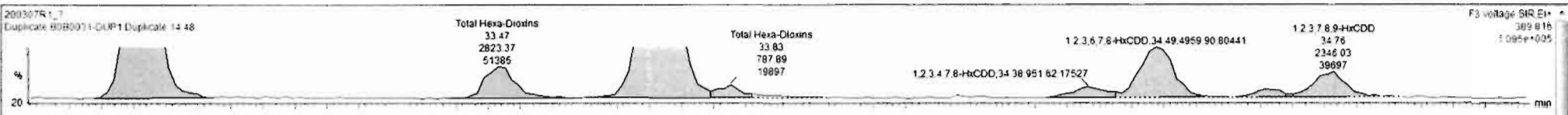


200307R1_7



Name	Resp	RA	n/y	RRF	wtVal	RT	RRT	Conc	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.98	10.010			19.0		0.102	19.0
42 Total Hepta-Dioxins				1.01	10.010			121		0.265	121

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Dioxins	32.91	1.529e4	1.603e4	1.20	NO	7.5795	7.5795
2 Total Hexa-Dioxins	33.47	2.823e3	2.027e2	1.39	NO	1.0406	1.0406
3 Total Hexa-Dioxins	33.72	1.750e4	1.412e4	1.25	NO	6.8059	6.8059
4 Total Hexa-Dioxins	33.83	7.879e2	5.995e2	1.51	NO	0.29766	0.29766
5 1,2,3,4,7,8-HxCDD	34.38	9.516e2	6.963e2	1.27	NO	0.32288	0.32288
6 1,2,3,6,7,8-HxCDD	34.49	4.960e2	4.021e2	1.23	NO	1.7724	1.7724
7 Total Hexa-Dioxins	34.66	5.342e2	4.211e2	1.27	NO	0.20495	0.20495
8 1,2,3,7,8,9-HxCDD	34.76	2.346e3	1.926e3	1.22	NO	0.94192	0.94192



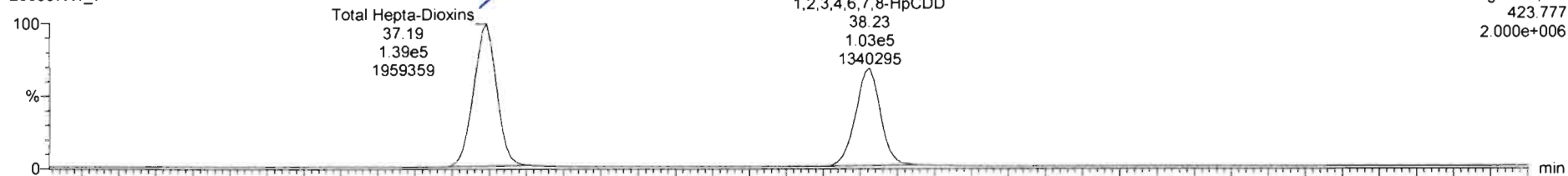
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Printed: Wednesday, March 11, 2020 11:44:27 Pacific Daylight Time

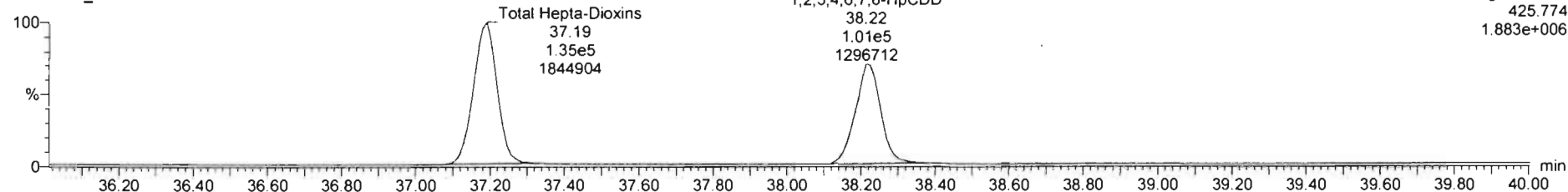
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1,2,3,4,6,7,8-HpCDD

200307R1_7

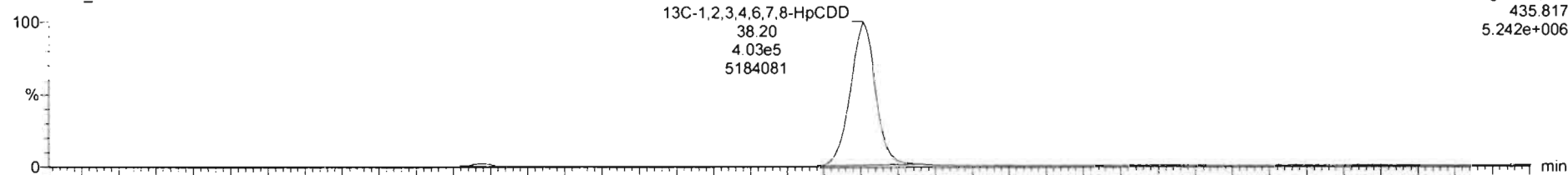


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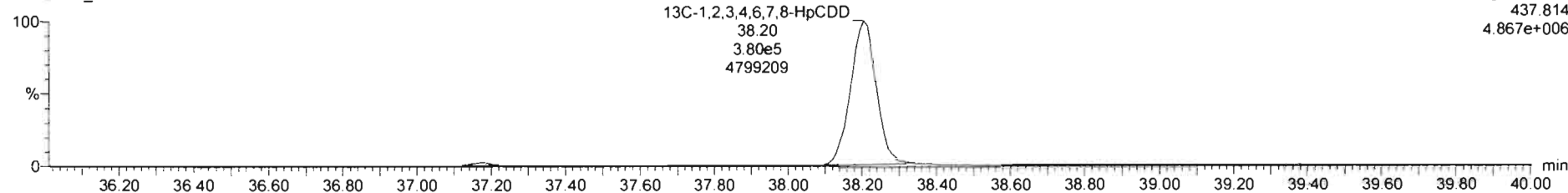


13C-1,2,3,4,6,7,8-HpCDD

200307R1_7



200307R1_7

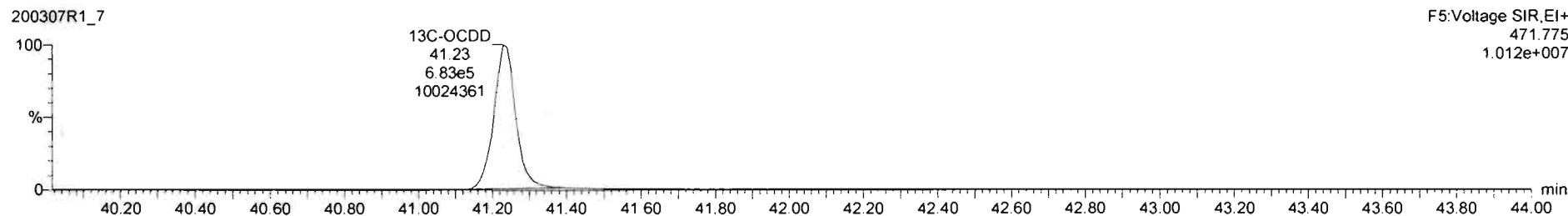
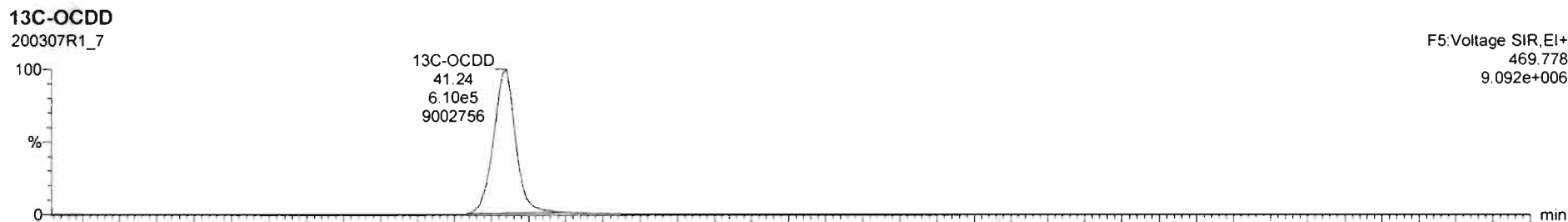
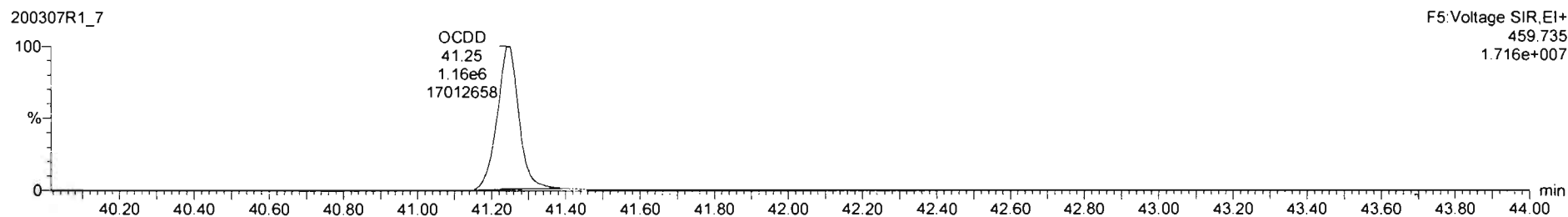
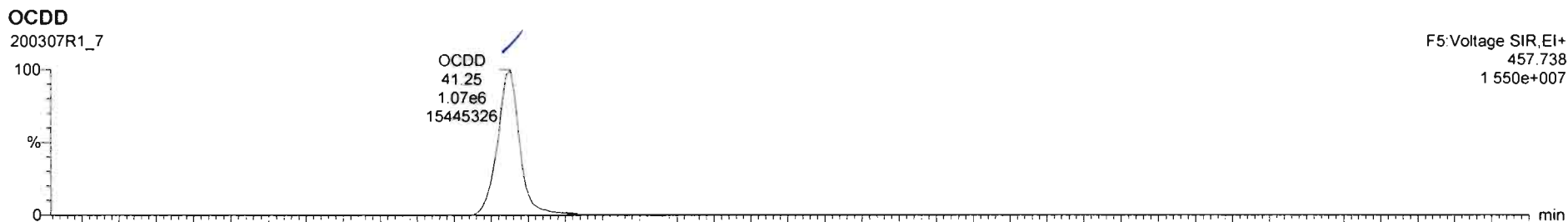


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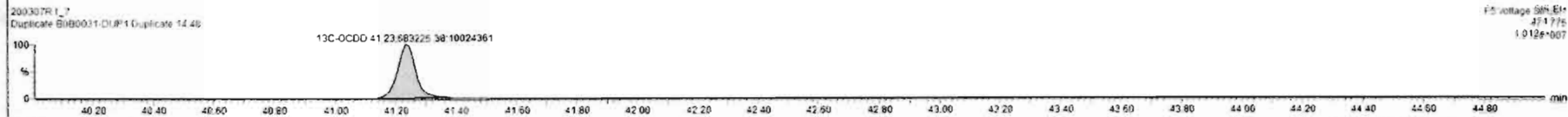
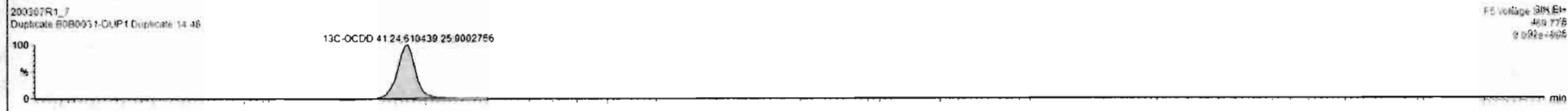
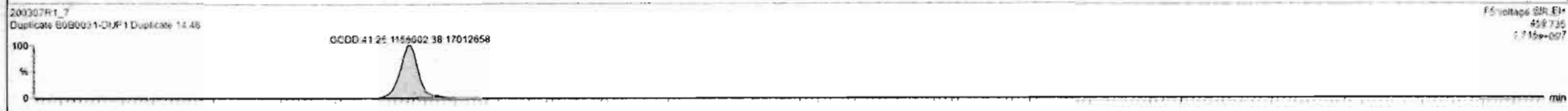
Printed: Wednesday, March 11, 2020 11:44:27 Pacific Daylight Time

Name: 200307R1_7, Date: 07-Mar-2020, Time: 14:28:31, ID: B0B0031-DUP1 Duplicate 14.48, Description: Duplicate



#	Name	Resp	RA	n/y	RRF	w%vol	RT	RRT	Conc	%Rec	DL	EMPC
7	OCDD	2.21e6	0.92	NO	1.0515	10.010	41.25	1.000	651	0.290	651	
8	2,2,7,8-TCDF	1.01e5	0.76	NO	0.6154	10.010	24.84	1.001	110	0.101	110	

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

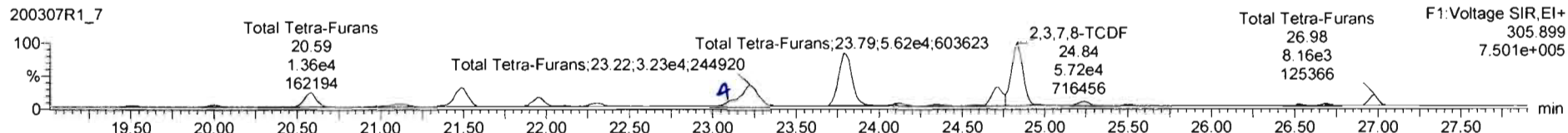
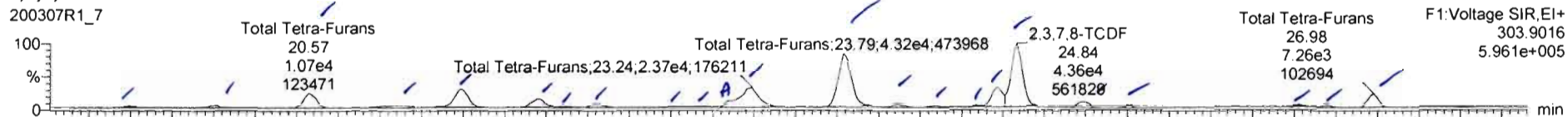


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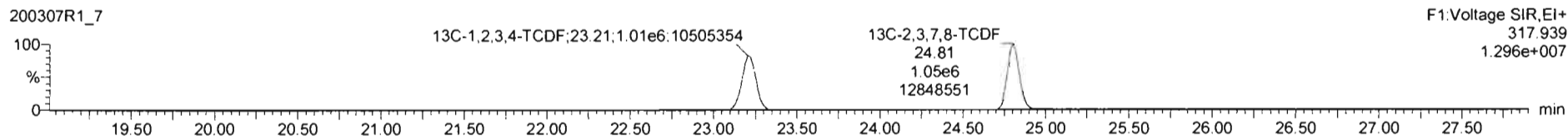
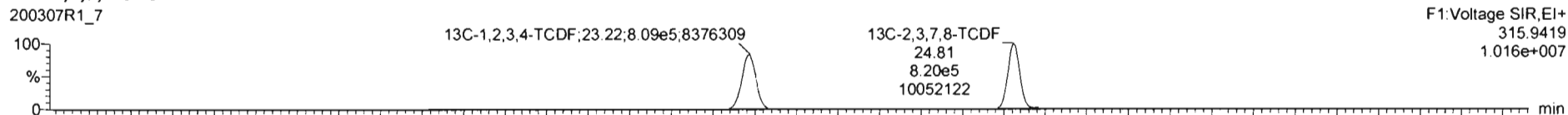
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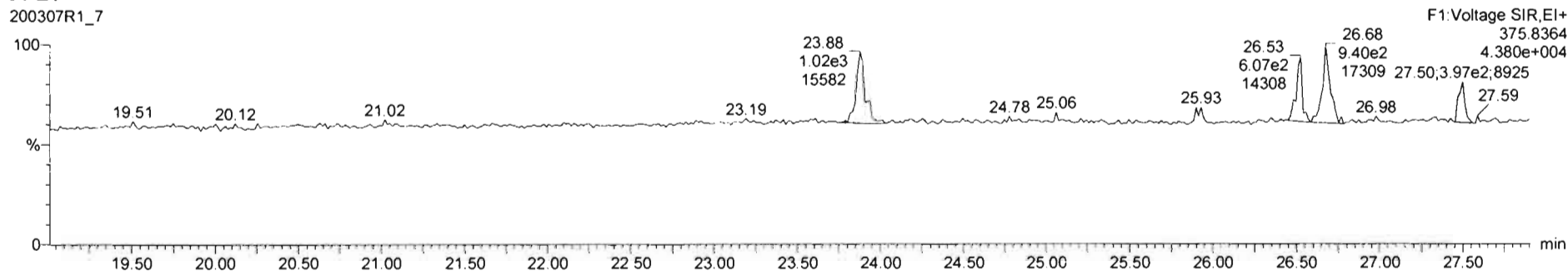
2,3,7,8-TCDF



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



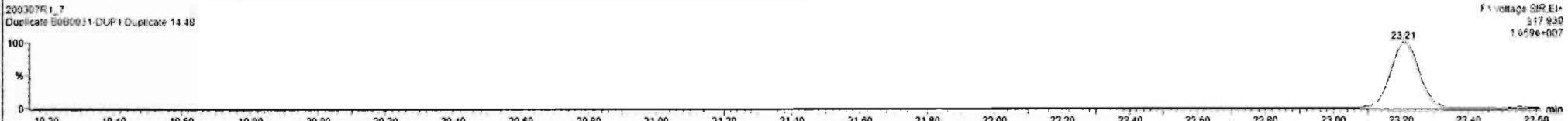
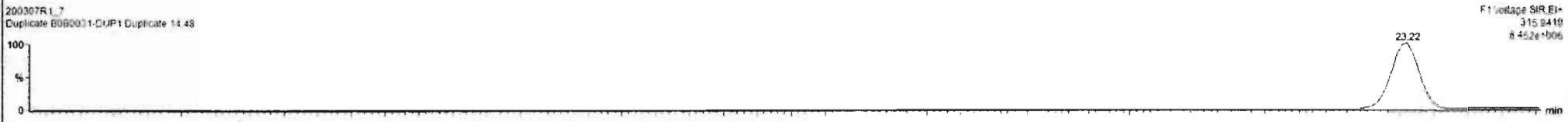
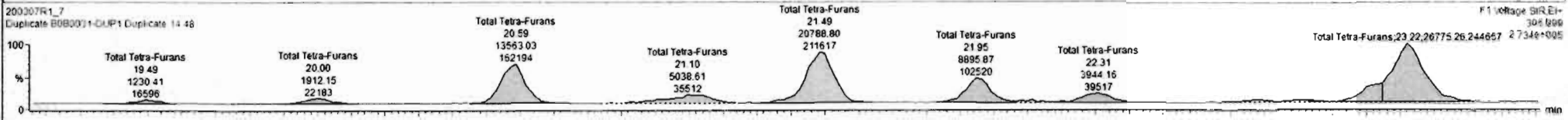
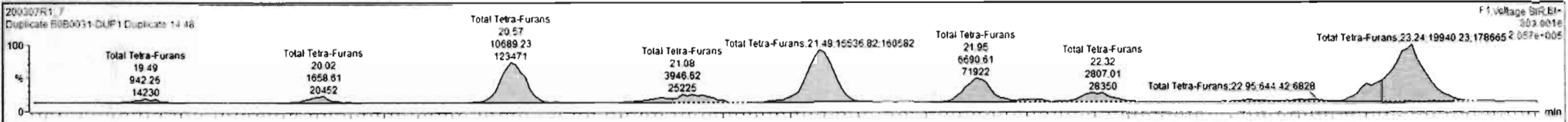
DPE1

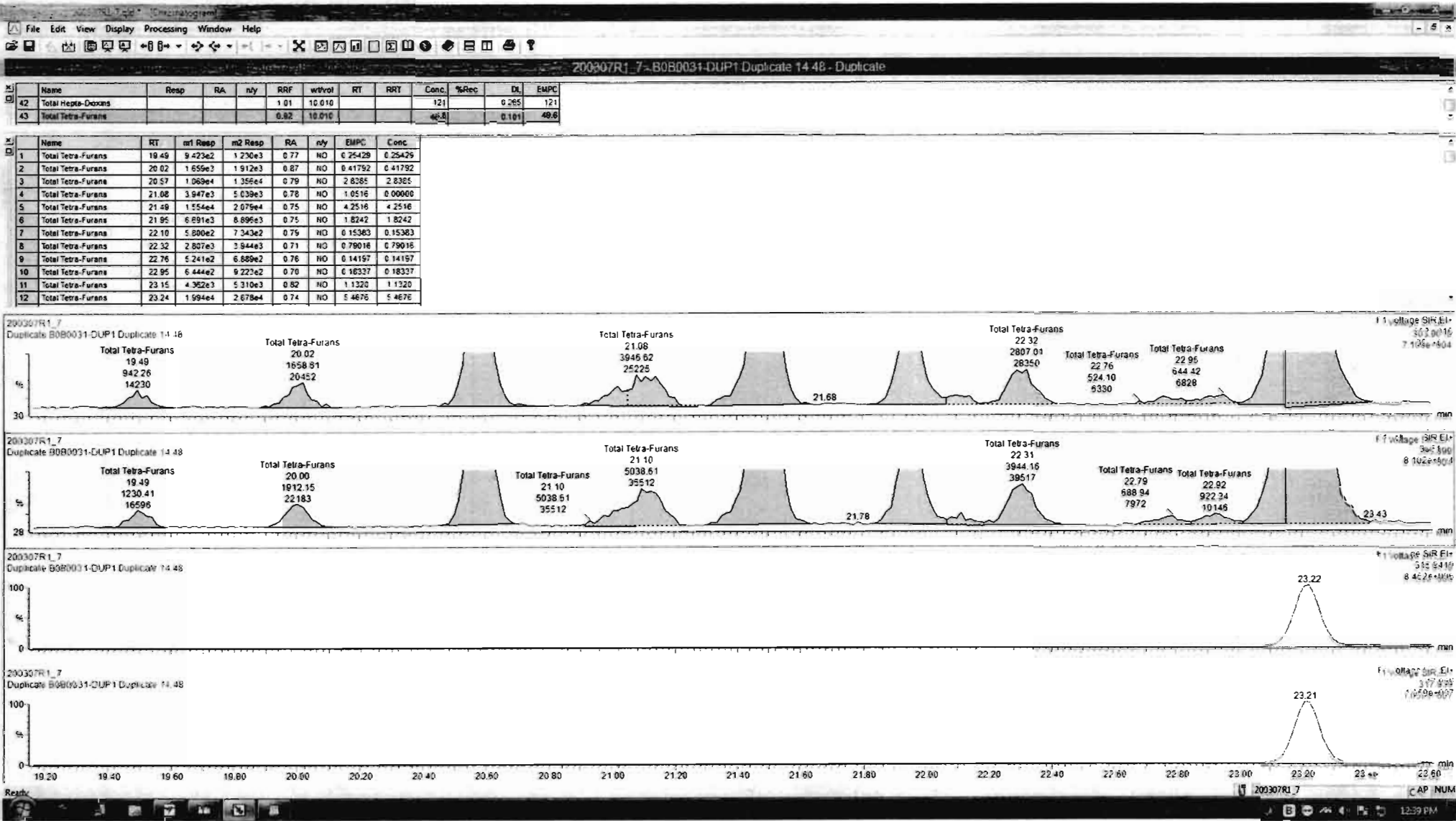


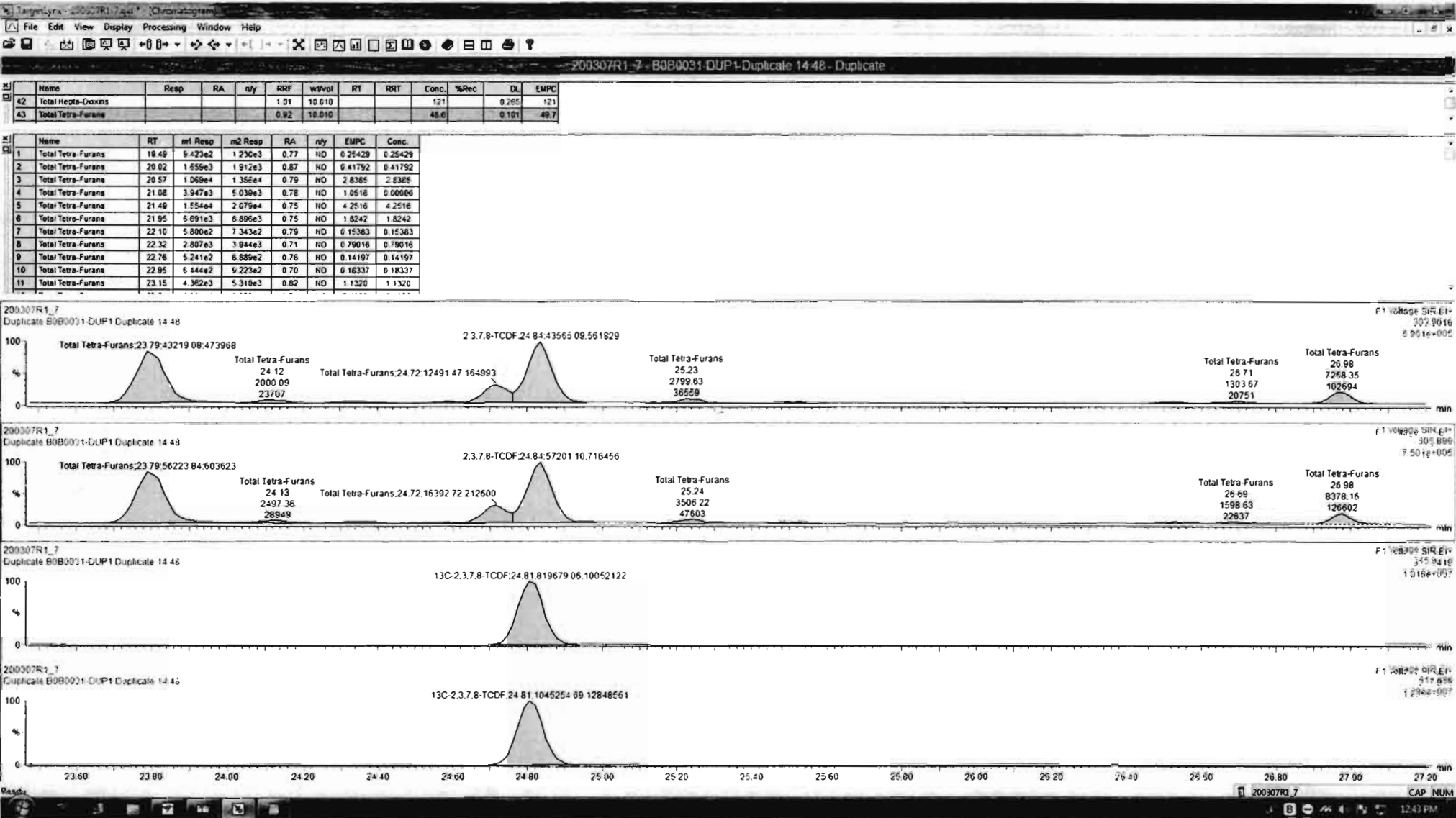
200307R1_7 - B0B0031-DUP1 Duplicate 14.48 - Duplicate

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
42 Total Hepta-Chlorins				1.01	10.010			121		0.265	121
43 Total Tetra-Furans				0.92	10.010			49.8		0.101	49.6

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Furans	19.49	9.423e2	1.230e3	0.77	NO	0.25429	0.25429
2 Total Tetra-Furans	20.02	1.659e3	1.912e3	0.87	NO	0.41752	0.41752
3 Total Tetra-Furans	20.57	1.069e4	1.356e4	0.79	NO	2.8385	2.8385
4 Total Tetra-Furans	21.08	3.947e3	5.039e3	0.78	NO	1.0516	0.00000
5 Total Tetra-Furans	21.49	1.154e4	2.079e4	0.75	NO	4.2516	4.2516
6 Total Tetra-Furans	21.95	6.291e3	8.895e3	0.75	NO	1.8242	1.8242
7 Total Tetra-Furans	22.10	5.500e2	7.343e2	0.79	NO	0.15363	0.15363
8 Total Tetra-Furans	22.32	2.807e3	5.944e3	0.71	NO	0.79016	0.79016
9 Total Tetra-Furans	22.76	5.241e2	6.889e2	0.76	NO	0.14197	0.14197
10 Total Tetra-Furans	22.95	6.444e2	9.223e2	0.70	NO	0.16337	0.16337
11 Total Tetra-Furans	23.15	4.362e3	5.310e3	0.82	NO	1.1320	1.1320
12 Total Tetra-Furans	23.24	1.934e4	2.678e4	0.74	NO	5.4676	5.4676

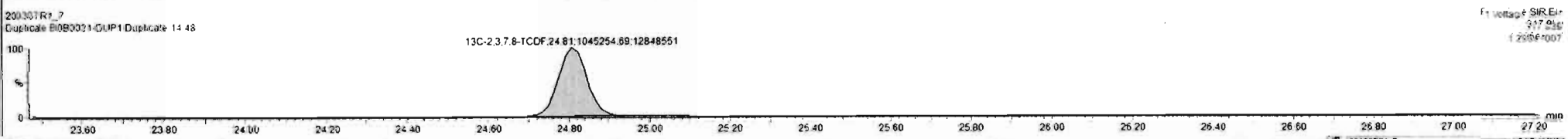
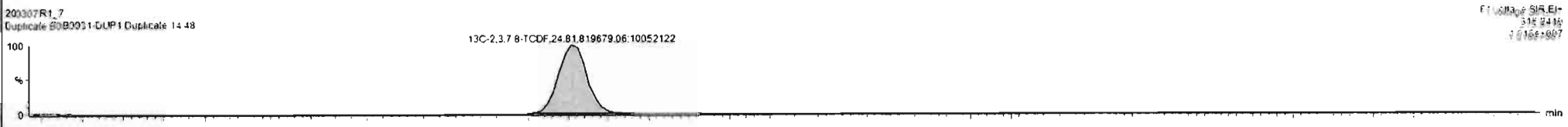
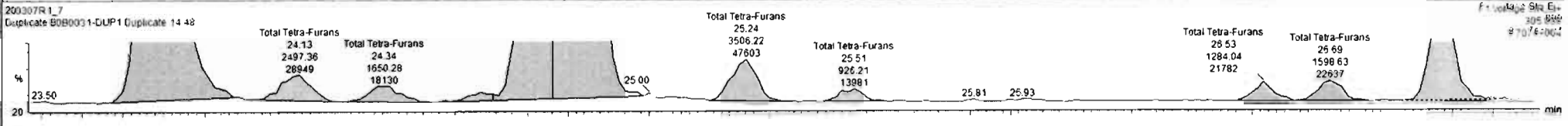
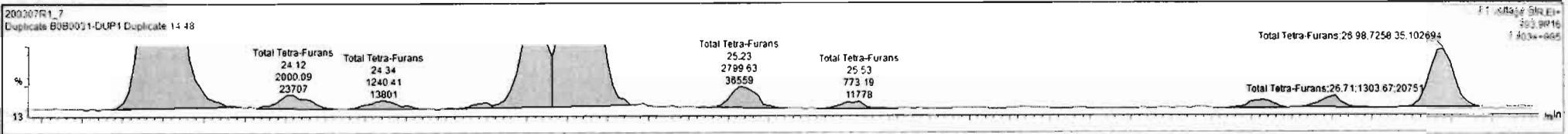






Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc.	%Rec	DL	EMPC
42 Total Hepta-Dioxins				1.01	10.010			121	0.265	121	
43 Total Tetra-Furans				0.82	10.010			48.6	0.101	49.7	

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
13 Total Tetra-Furans	23.79	4.322e4	5.822e4	0.77	NO	11.639	11.639
14 Total Tetra-Furans	24.12	2.000e3	2.497e3	0.80	NO	0.52638	0.52638
15 Total Tetra-Furans	24.34	1.240e3	1.650e3	0.75	NO	0.33833	0.33833
16 Total Tetra-Furans	24.60	4.423e2	6.290e2	0.70	NO	0.12538	0.12538
17 Total Tetra-Furans	24.72	1.249e4	1.639e4	0.76	NO	3.3806	3.3806
18 2,3,7,8-TCDF	24.64	4.357e4	5.720e4	0.76	NO	11.794	11.794
19 Total Tetra-Furans	25.23	2.690e3	3.506e3	0.80	NO	0.73804	0.73804
20 Total Tetra-Furans	25.53	7.722e2	9.262e2	0.83	NO	0.19890	0.19890
21 Total Tetra-Furans	26.53	9.703e2	1.284e3	0.76	NO	0.26385	0.26385
22 Total Tetra-Furans	26.71	1.304e3	1.599e3	0.82	NO	0.33968	0.33968
23 Total Tetra-Furans	26.98	7.258e3	8.328e3	0.87	NO	1.8242	1.8242



Dataset: Untitled

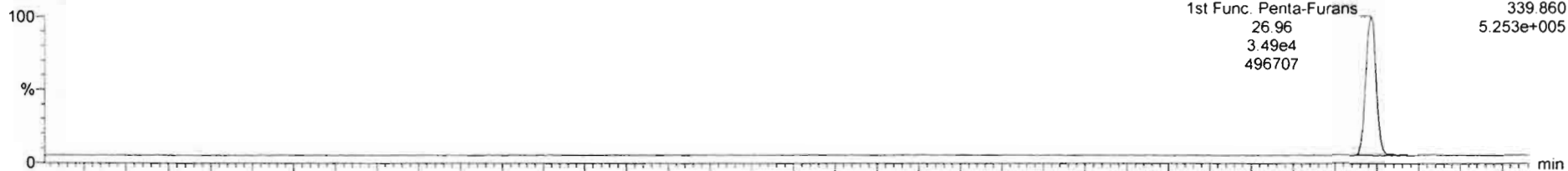
Last Altered: Wednesday, March 11, 2020 11:44:17 Pacific Daylight Time

Printed: Wednesday, March 11, 2020 11:44:27 Pacific Daylight Time

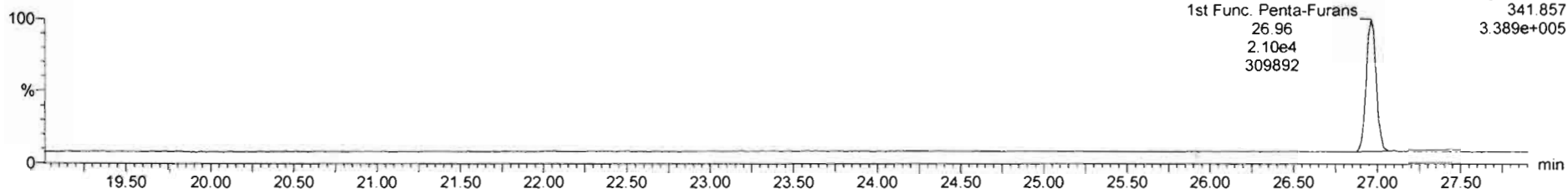
Name: 200307R1_7, Date: 07-Mar-2020, Time: 14:28:31, ID: B0B0031-DUP1 Duplicate 14.48, Description: Duplicate

1st Func. Penta-Furans

200307R1_7

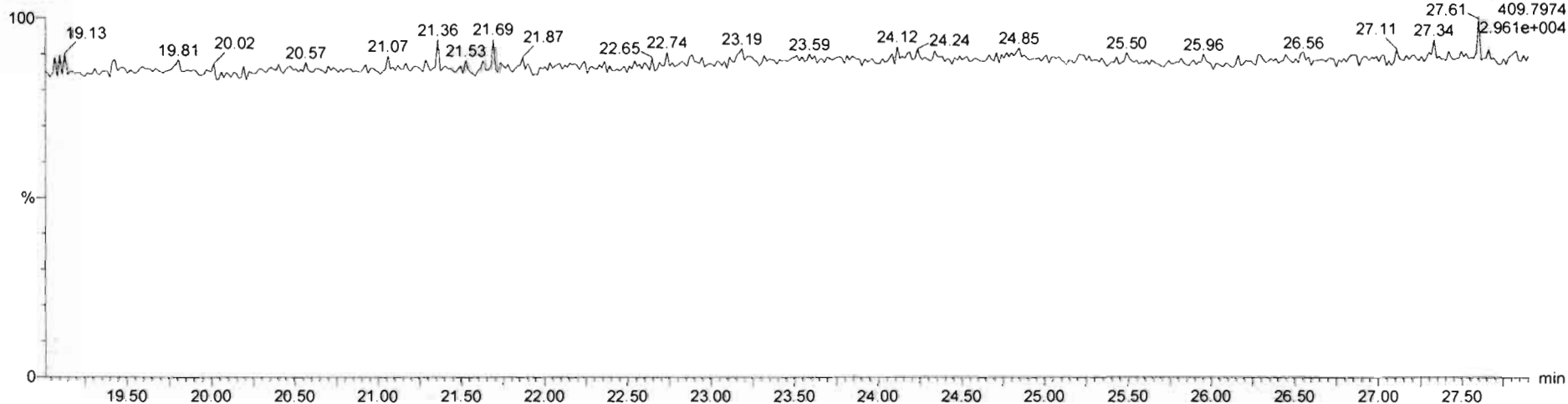


200307R1_7



DPE6

200307R1_7



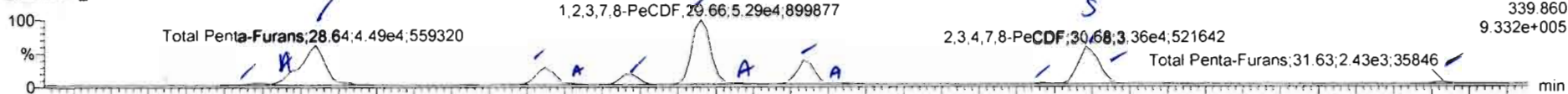
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Last Altered: Wednesday, March 11, 2020 11:44:17 Pacific Daylight Time
Printed: Wednesday, March 11, 2020 11:44:27 Pacific Daylight Time

Name: 200307R1_7, Date: 07-Mar-2020, Time: 14:28:31, ID: B0B0031-DUP1 Duplicate 14.48, Description: Duplicate

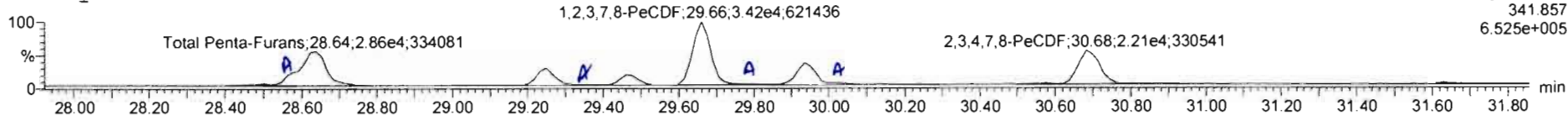
1,2,3,7,8-PeCDF

200307R1_7



F2:Voltage SIR,EI+
339.860
9.332e+005

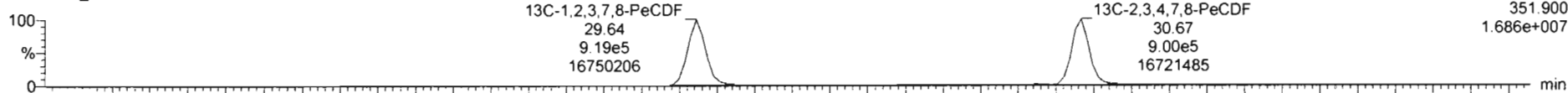
200307R1_7



F2:Voltage SIR,EI+
341.857
6.525e+005

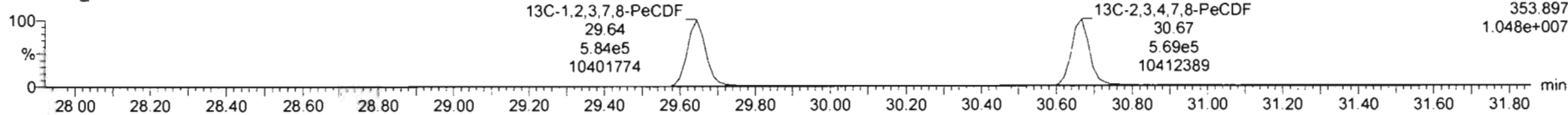
13C-1,2,3,7,8-PeCDF

200307R1_7



F2:Voltage SIR,EI+
351.900
1.686e+007

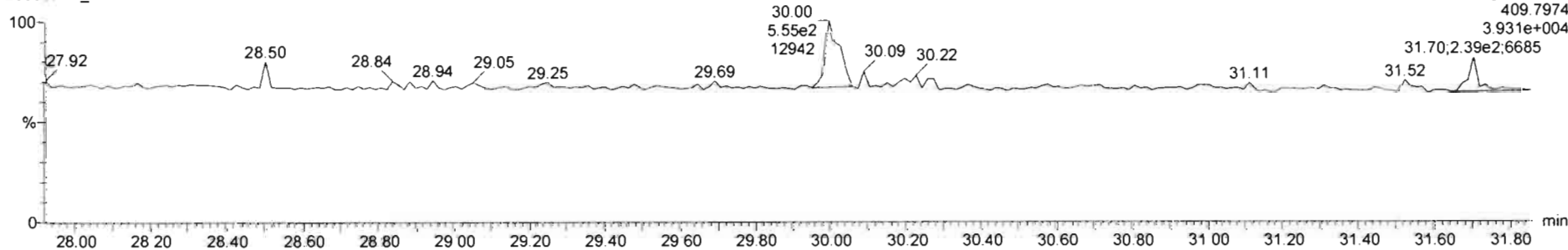
200307R1_7



F2:Voltage SIR,EI+
353.897
1.048e+007

DPE2

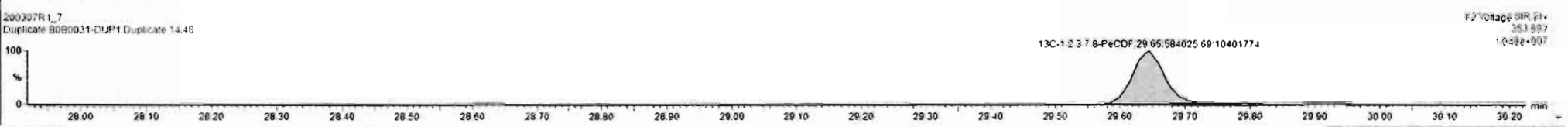
200307R1_7



F2:Voltage SIR,EI+
409.7974
3.931e+004

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.96	10.010			30.6	0.119	41.3	
46 Total Hexa-Furans				1.09	10.010			51.6	0.114	51.8	

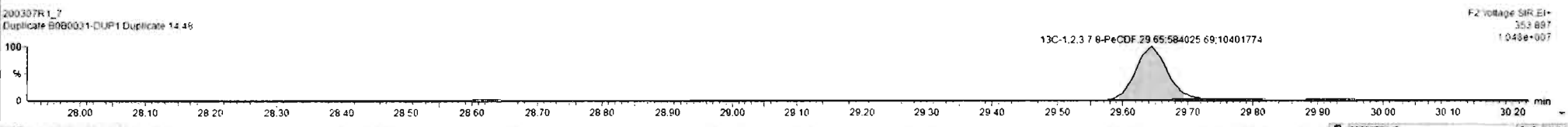
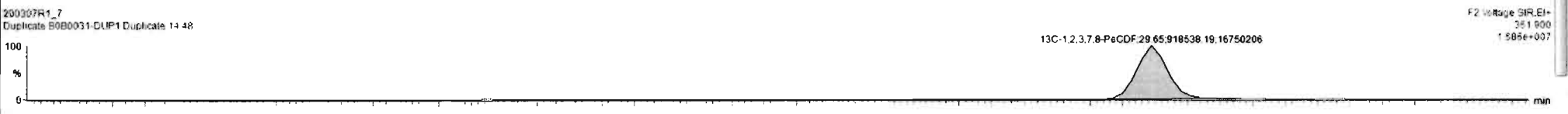
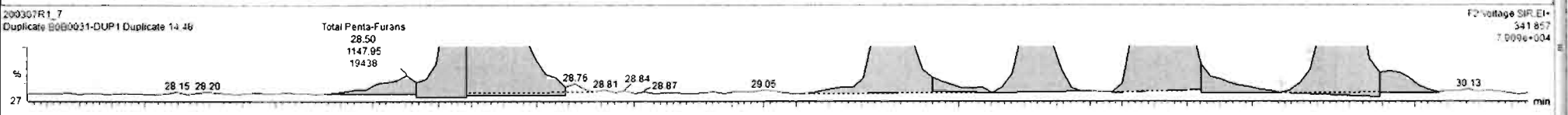
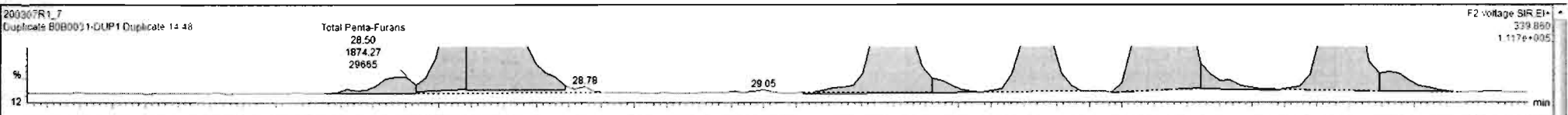
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	28.50	1.974e3	1.148e3	1.63	NO	0.42361	0.42361
2 Total Penta-Furans	28.59	8.416e3	5.676e3	1.48	NO	1.9752	0.00000
3 Total Penta-Furans	28.64	3.503e4	2.341e4	1.50	NO	2.1910	0.00000
4 Total Penta-Furans	29.25	1.526e4	9.260e3	1.65	NO	3.4362	3.4362
5 Total Penta-Furans	29.31	6.497e2	5.779e2	1.47	NO	0.20009	0.20009
6 Total Penta-Furans	29.46	8.571e3	5.452e3	1.57	NO	1.9654	1.9654
7 1,2,3,7,8-PeCDF	29.66	5.163e4	3.334e4	1.55	NO	11.778	11.778
8 Total Penta-Furans	29.72	1.580e3	1.145e3	1.36	NO	0.38206	0.38206
9 Total Penta-Furans	29.93	1.882e4	1.280e4	1.47	NO	4.4325	4.4325
10 Total Penta-Furans	30.01	1.839e3	1.261e3	1.46	NO	0.43449	0.43449
11 Total Penta-Furans	30.56	7.281e2	6.891e2	1.06	YES	0.16789	0.00000
12 2,3,4,7,8-PeCDF	30.66	3.363e4	2.206e4	1.52	NO	7.5520	7.5520
13 Total Penta-Furans	31.83	2.432e3	9.788e2	2.48	YES	0.34965	0.00000



200307R1_7 - B0B0031-DUP1 Duplicate 14.48 - Duplicate

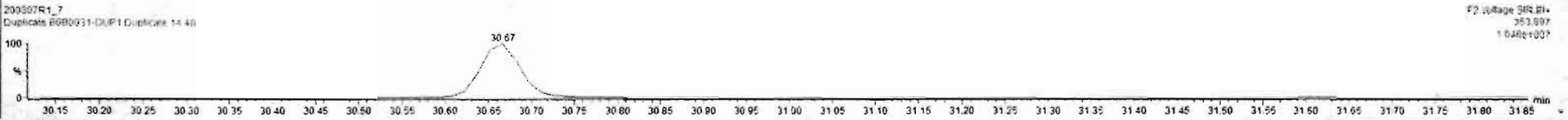
Name	Resp	RA	n/y	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.96	10.010			30.6	0.119	41.3	
46 Total Hexa-Furans				1.09	10.010			51.6	0.114	51.8	

Name	RT	n1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	28.50	1.874e3	1.148e3	1.62	NO	0.42361	0.42361
2 Total Penta-Furans	28.59	6.416e3	5.679e3	1.48	NO	1.9752	0.00000
3 Total Penta-Furans	28.64	3.503e4	2.341e4	1.50	NO	8.1910	0.00000
4 Total Penta-Furans	29.25	1.526e4	9.260e3	1.65	NO	3.4362	3.4362
5 Total Penta-Furans	29.31	6.497e2	5.779e2	1.47	NO	0.20009	0.20009
6 Total Penta-Furans	29.46	8.571e3	5.452e3	1.57	NO	1.9654	1.9654
7 1,2,3,7,8-PeCDF	29.66	5.163e4	3.234e4	1.55	NO	11.778	11.778
8 Total Penta-Furans	29.72	1.580e3	1.146e3	1.36	NO	0.38206	0.38206
9 Total Penta-Furans	29.93	1.882e4	1.280e4	1.47	NO	4.4325	4.4325
10 Total Penta-Furans	30.01	1.039e3	1.261e2	1.46	NO	0.43449	0.43449
11 Total Penta-Furans	30.56	7.281e2	5.891e2	1.06	YES	0.16789	0.00000
12 2,3,4,7,8-PeCDF	30.68	3.363e4	2.208e4	1.52	NO	7.5520	7.5520
13 Total Penta-Furans	31.83	2.432e3	9.765e2	2.48	YES	0.34965	0.00000



Name	Resp	RA	nly	RRF	wfvol	RT	RRT	Conc	%Rec	DL	EMPC
45	Total Penta-Furans			0.9594	10.010			31.4		0.119	41.5

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1	Total Penta-Furans	28.50	1.874e3	1.145e3	1.63	NO	0.42361
2	Total Penta-Furans	28.84	3.502e4	2.341e4	1.50	NO	2.1910
3	Total Penta-Furans	28.25	1.526e4	9.280e3	1.85	NO	3.4262
4	Total Penta-Furans	29.46	6.571e3	5.452e3	1.57	NO	1.9654
5	1,2,3,7,8-PeCDF	29.66	5.162e4	3.324e4	1.55	NO	11.778
6	Total Penta-Furans	29.53	1.882e4	1.280e4	1.47	NO	4.4225
7	Total Penta-Furans	30.58	1.107e3	6.891e2	1.61	NO	0.25180
8	2,3,4,7,8-PeCDF	30.68	2.052e4	1.355e4	1.52	NO	4.8180
9	Total Penta-Furans	31.83	1.648e3	1.017e3	1.62	NO	0.37326
10	Total Penta-Furans	28.59	8.416e3	5.676e3	1.46	NO	1.9752
11	Total Penta-Furans	29.31	8.497e2	5.779e2	1.47	NO	0.20009
12	Total Penta-Furans	29.72	1.580e3	1.146e3	1.38	NO	0.38206
13	Total Penta-Furans	30.01	1.835e3	1.261e3	1.48	NO	0.43449
14	Total Penta-Furans	30.70	1.342e4	8.444e3	1.59	NO	3.0643

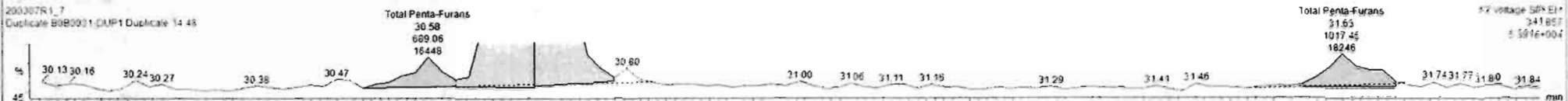


Custom Reporting: Select reports to generate

200307R1_7 CAP NUM

Name	Resp	RA	nly	RRF	wfVol	RT	RRT	Conc	%Rec	DL	EMPC
Total Penta-Furans				0.9594	10.810			31.4		0.119	41.5

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Penta-Furans	28.50	1.274e2	1.148e2	1.63	NO	0.42361	6.42361
2 Total Penta-Furans	28.64	3.593e4	2.341e4	1.50	NO	2.1910	0.00000
3 Total Penta-Furans	29.25	1.526e4	9.260e3	1.65	NO	3.4352	3.4352
4 Total Penta-Furans	29.46	8.571e2	5.452e2	1.57	NO	1.9654	1.9654
5 1,2,3,7,8-PeCDF	29.66	5.162e4	3.334e4	1.55	NO	11.778	11.778
6 Total Penta-Furans	29.93	1.682e4	1.280e4	1.47	NO	4.4325	4.4325
7 Total Penta-Furans	30.56	1.107e3	8.891e2	1.61	NO	0.25186	0.25186
8 2,3,4,7,8-PeCDF	30.68	2.052e4	1.355e4	1.52	NO	4.6180	4.6180
9 Total Penta-Furans	31.63	1.646e3	1.017e2	1.62	NO	0.37326	0.37326
10 Total Penta-Furans	28.59	8.416e3	5.676e3	1.46	NO	1.9752	0.00000
11 Total Penta-Furans	29.31	6.497e2	5.779e2	1.47	NO	0.20009	0.20009
12 Total Penta-Furans	29.72	1.580e3	1.146e2	1.38	NO	0.36206	0.36206
13 Total Penta-Furans	30.01	1.839e3	1.261e3	1.46	NO	0.43449	0.43449
14 Total Penta-Furans	30.70	1.342e4	8.444e3	1.59	NO	3.0643	3.0643

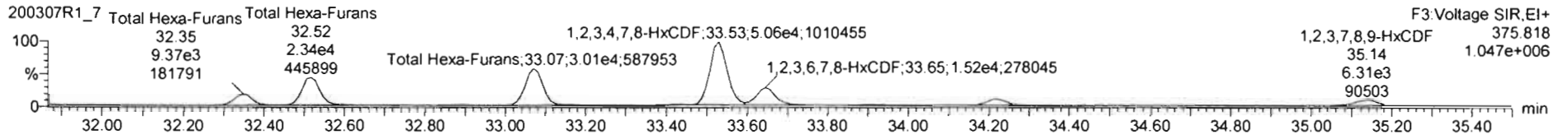
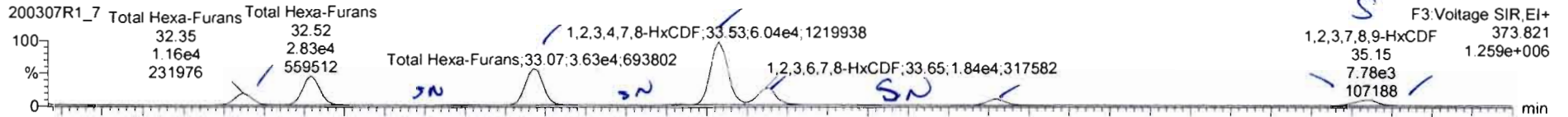


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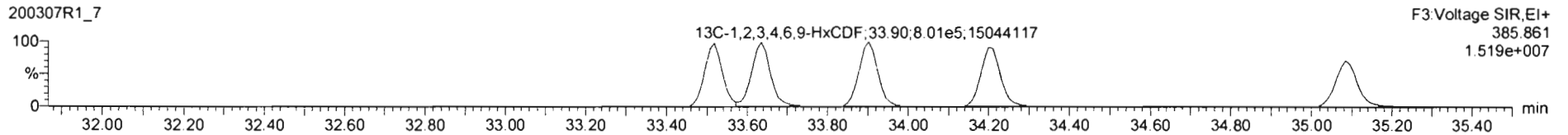
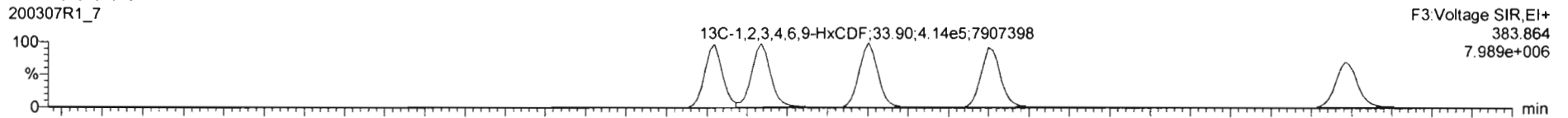
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Printed: Wednesday, March 11, 2020 11:44:27 Pacific Daylight Time

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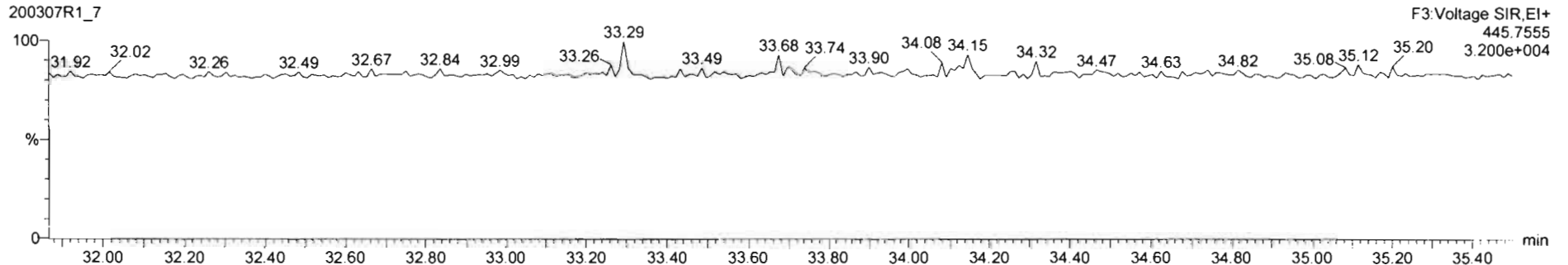
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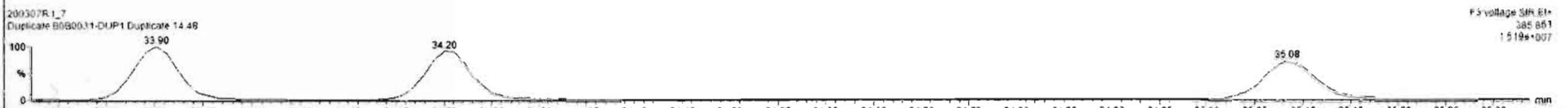
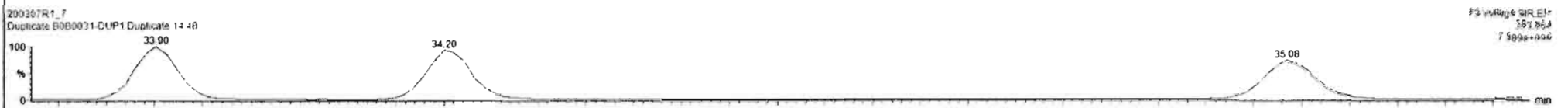
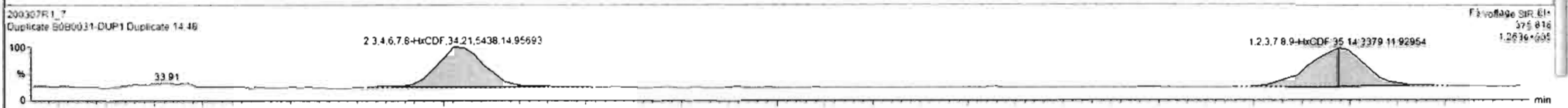
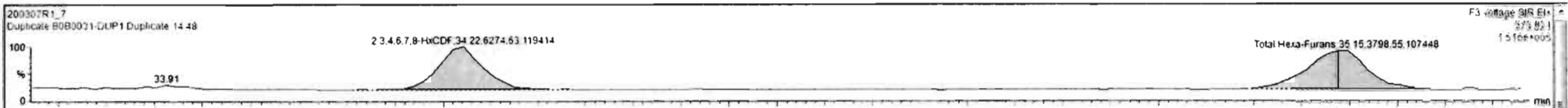
DPE3



200307R1_7 - B0B0031-DUP1 Duplicate 14.48 - Duplicate

SI	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans				0.95	10.010			31.4		0.116	41.2
46	Total Hexa-Furans				1.09	10.010			51.1		0.114	51.1

SI	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Hexa-Furans	32.35	1.155e4	9.370e3	1.22	ND	3.3712	3.3712
2	Total Hexa-Furans	32.52	2.832e4	2.337e4	1.21	ND	8.3316	8.3316
3	Total Hexa-Furans	32.07	3.630e4	3.009e4	1.21	ND	10.699	10.699
4	1,2,3,4,7,8-HxCDF	33.53	6.042e4	5.064e4	1.19	ND	19.012	19.012
5	1,2,3,6,7,8-HxCDF	33.65	1.835e4	1.516e4	1.21	ND	5.4158	5.4158
6	2,3,4,6,7,8-HxCDF	34.22	6.275e3	5.438e3	1.15	ND	1.8233	1.8233
7	1,2,3,7,8,9-HxCDF	35.14	3.914e3	3.379e3	1.16	ND	1.2901	1.2901
8	Total Hexa-Furans	35.15	3.799e3	2.926e3	1.30	ND	1.0837	1.0837

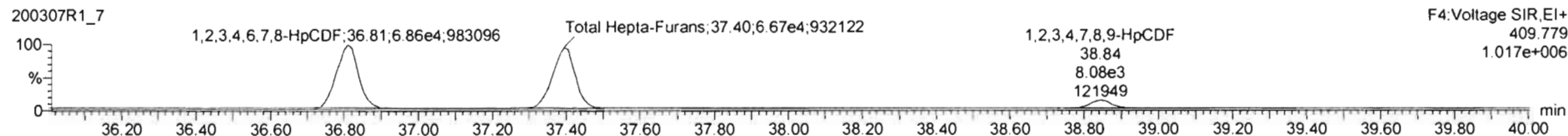
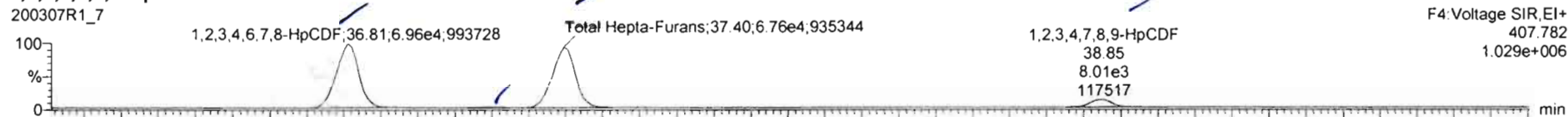


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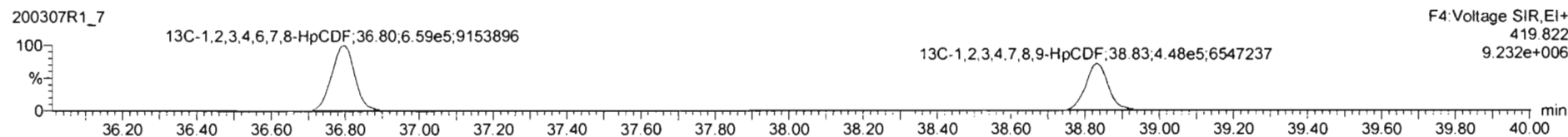
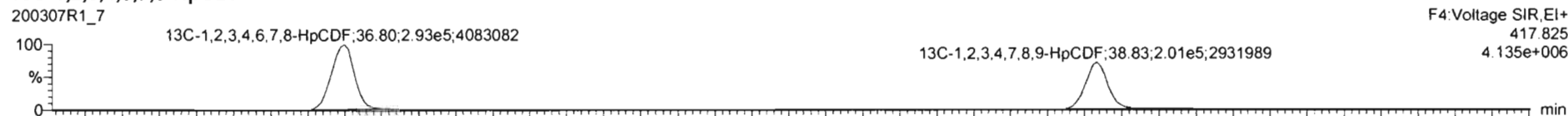
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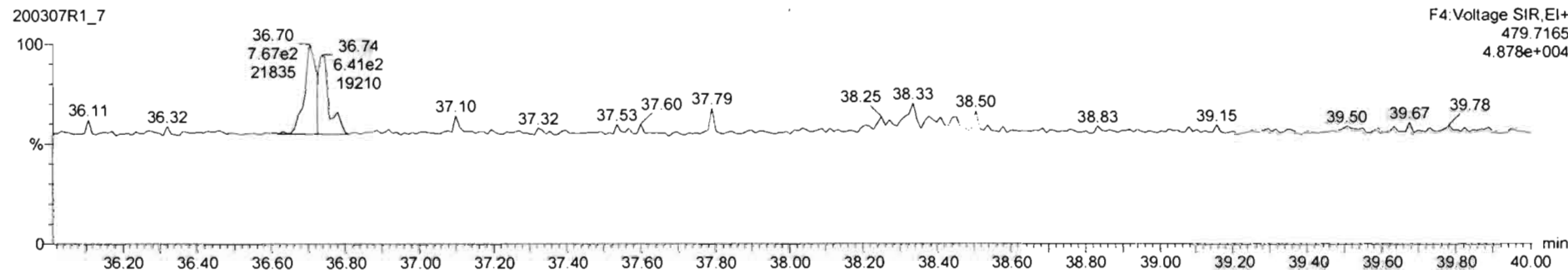
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13C-1,2,3,4,6,7,8-HpCDF

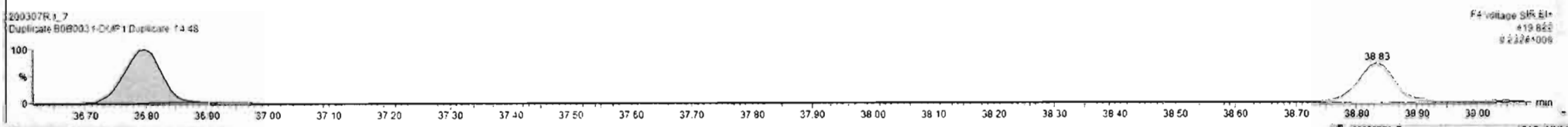
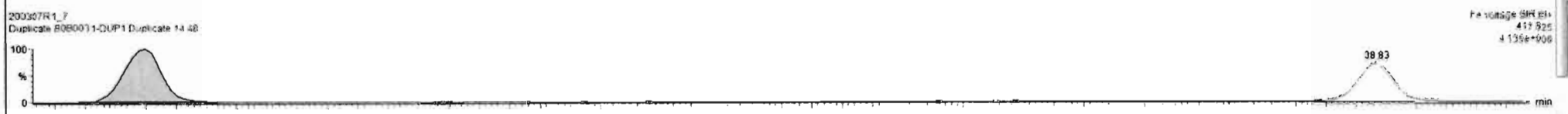
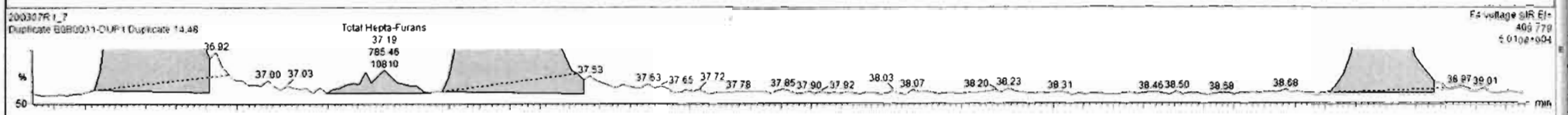
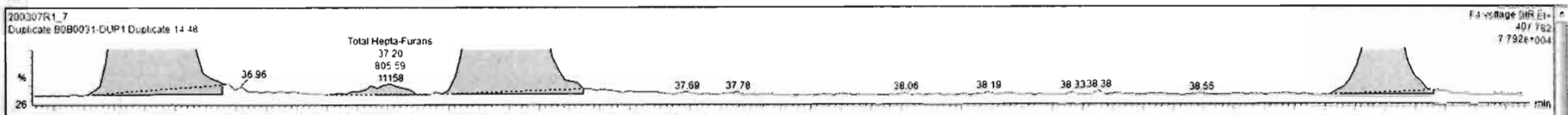


DPE4



Name	Resp	RA	n/y	RRF	wtvol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.96	10.010			31.4	0.119	41.6	
46 Total Hexa-Furans				1.09	10.010			51.1	0.114	51.1	

Name	RT	n1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	36.81	7.073e4	8.910e4	1.02	NO	27.991	27.991
2 Total Hepta-Furans	37.20	6.056e2	7.855e2	1.03	NO	0.37879	0.37879
3 Total Hepta-Furans	37.40	6.222e4	6.766e4	1.01	NO	32.398	32.398
4 1,2,3,4,7,8,9-HpCDF	38.85	8.368e3	8.157e3	1.03	NO	4.204E	4.204E

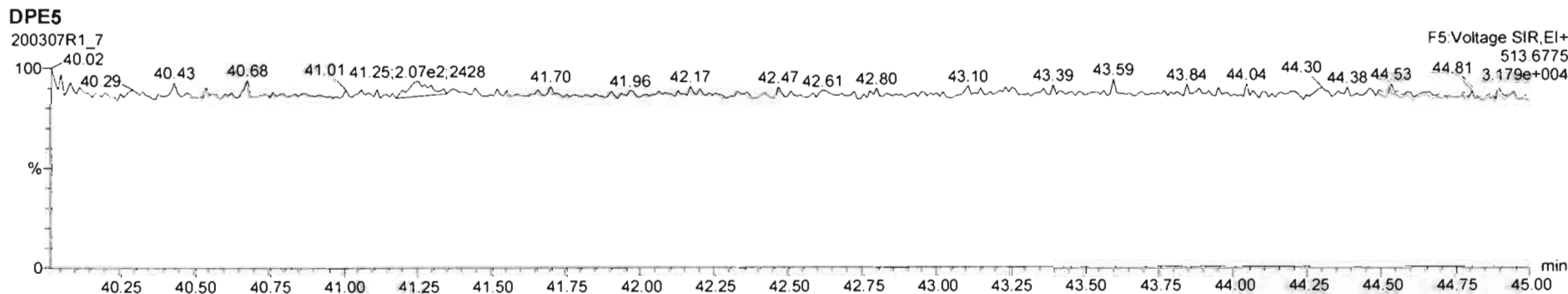
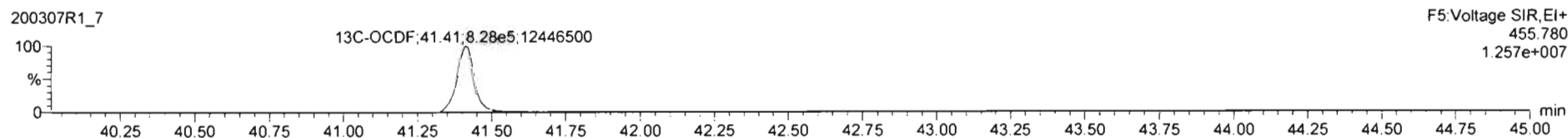
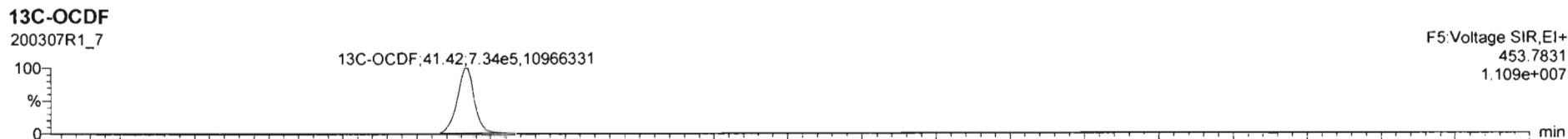
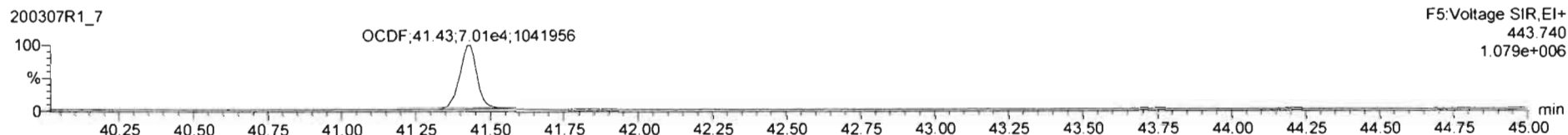
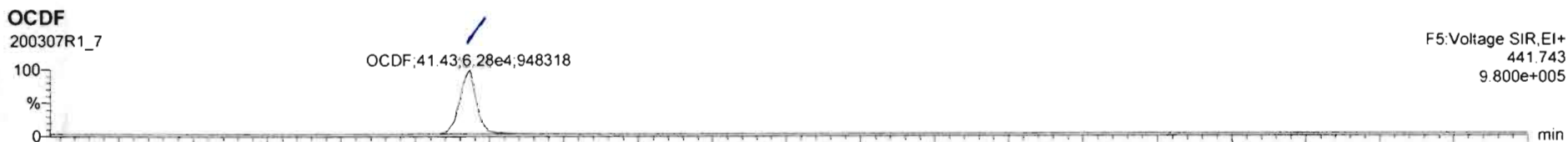


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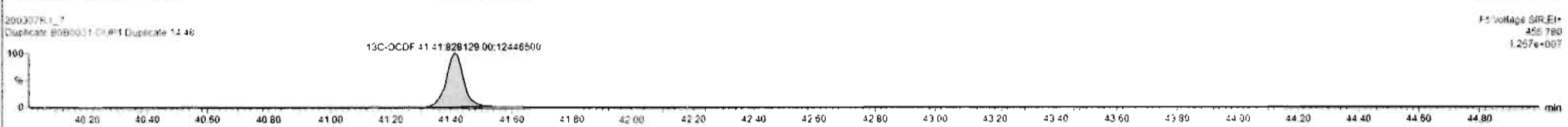
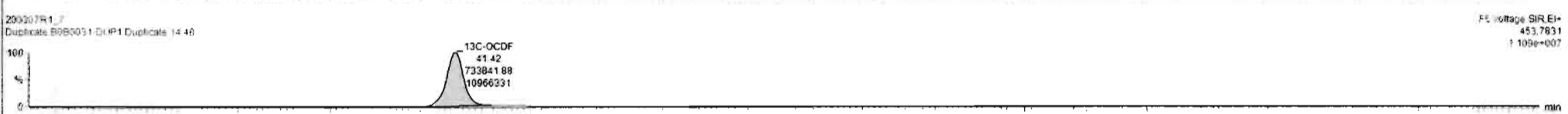
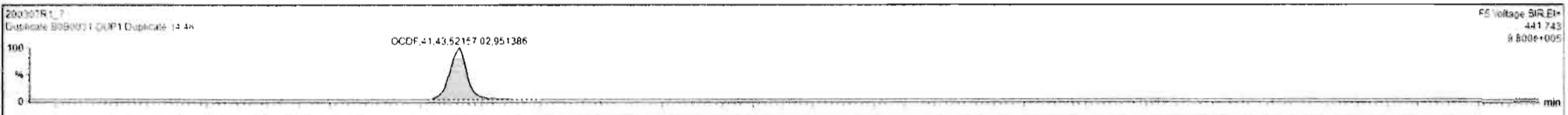
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OCDF	1.52e5	0.89	NO	0.95	10.010	41.43	1.000	35.7		0.144	35.7
13C-2,3,7,8-TCDF	1.25e6	0.80	NO	1.12	10.010	25.78	1.026	193	96.7	0.212	

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc



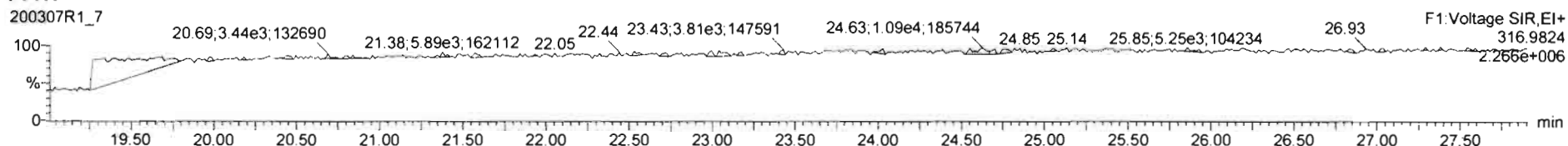
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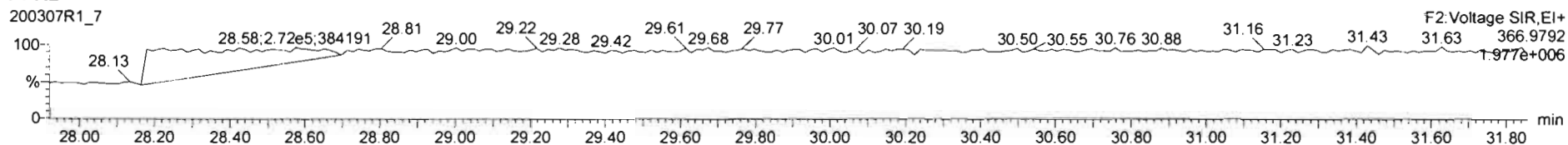
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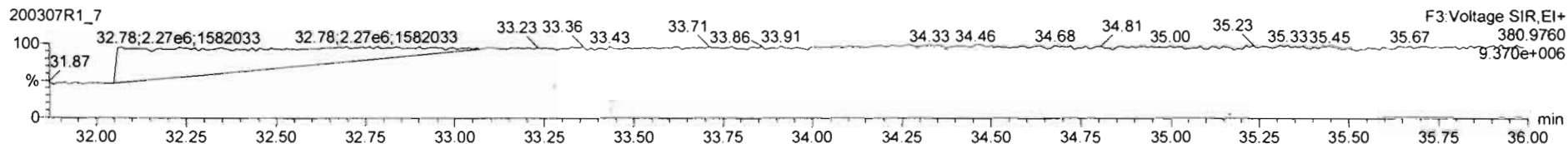
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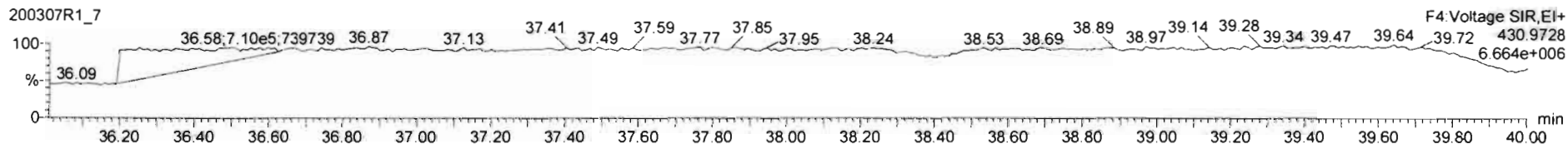
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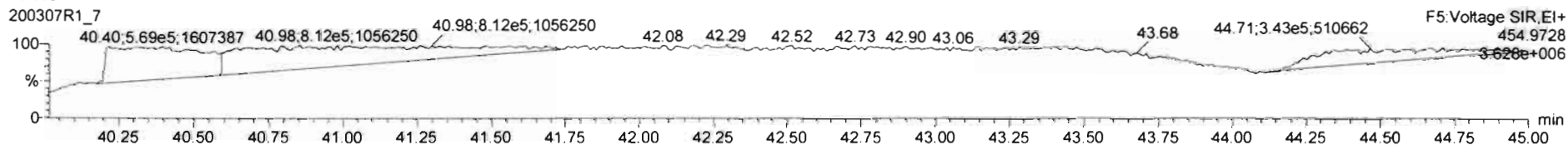
PFK3



PFK4



PFK5



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Printed: Thursday, March 26, 2020 11:54:27 Pacific Daylight Time

dy 03-26-2020
0703/26/2020

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

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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	5.22e4	1.36e6	0.769	NO	10.02	25.81	25.81	1.00	1.00	NO	7.7871		0.104	7.7871
2	2 1,2,3,7,8-PeCDD	2.04e4	1.12e6	0.638	NO	10.02	30.99	30.99	1.00	1.00	NO	3.9513		0.124	3.9513
3	3 1,2,3,4,7,8-HxCDD	1.30e4	8.85e5	1.348	NO	10.02	34.38	34.38	1.00	1.00	NO	2.5843		0.245	2.5843
4	4 1,2,3,6,7,8-HxCDD	9.69e4	1.05e6	1.280	NO	10.02	34.48	34.49	1.00	1.00	NO	18.630		0.238	18.630
5	5 1,2,3,7,8,9-HxCDD	3.12e4	9.90e5	1.391	NO	10.02	34.75	34.75	1.00	1.00	NO	6.5043		0.268	6.5043
6	6 1,2,3,4,6,7,8-HpCDD	3.92e6	9.06e5	1.032	NO	10.02	38.23	38.23	1.00	1.00	NO	858.51		0.783	858.51
7	7 OCDD	2.09e7	1.33e6	0.890	NO	10.02	41.25	41.26	1.00	1.00	NO	5982.4		0.684	5982.4
8	8 2,3,7,8-TCDF	2.02e6	1.86e6	0.771	NO	10.02	24.85	24.85	1.00	1.00	NO	236.31 (205)		0.191	236.31
9	9 1,2,3,7,8-PeCDF	1.75e6	1.70e6	1.561	NO	10.02	29.67	29.66	1.00	1.00	NO	213.69		0.221	213.69
10	10 2,3,4,7,8-PeCDF	9.70e5	1.55e6	1.557	NO	10.02	30.70	30.68	1.00	1.00	NO	124.40		0.223	124.40
11	11 1,2,3,4,7,8-HxCDF	1.62e6	1.24e6	1.214	NO	10.02	33.52	33.53	1.00	1.00	NO	251.07		0.189	251.07
12	12 1,2,3,6,7,8-HxCDF	4.27e5	1.32e6	1.218	NO	10.02	33.65	33.65	1.00	1.00	NO	63.588		0.193	63.588
13	13 2,3,4,6,7,8-HxCDF	1.19e5	1.21e6	1.247	NO	10.02	34.25	34.22	1.00	1.00	NO	17.847		0.208	17.847
14	14 1,2,3,7,8,9-HxCDF	9.39e4	1.10e6	1.168	NO	10.02	35.08	35.13	1.00	1.00	NO	16.597		0.269	16.597
15	15 1,2,3,4,6,7,8-HpCDF	6.66e5	1.03e6	1.015	NO	10.02	36.84	36.81	1.00	1.00	NO	123.12		0.295	123.12
16	16 1,2,3,4,7,8,9-HpCDF	2.05e5	7.55e5	1.018	NO	10.02	38.84	38.85	1.00	1.00	NO	44.741		0.327	44.741
17	17 OCDF	1.01e6	1.70e6	0.876	NO	10.02	41.43	41.44	1.00	1.00	NO	249.99		0.227	249.99
18	18 13C-2,3,7,8-TCDD	1.36e6	1.27e6	0.778	NO	10.02	25.80	25.78	1.03	1.03	NO	179.83	90.1	0.148	
19	19 13C-1,2,3,7,8-PeCDD	1.12e6	1.27e6	0.637	NO	10.02	30.99	30.97	1.24	1.24	NO	202.35	101.4	0.428	
20	20 13C-1,2,3,4,7,8-HxCDD	8.85e5	1.38e6	1.278	NO	10.02	34.37	34.37	1.01	1.01	NO	169.74	85.1	0.292	
21	21 13C-1,2,3,6,7,8-HxCDD	1.05e6	1.38e6	1.270	NO	10.02	34.48	34.48	1.02	1.02	NO	164.73	82.6	0.238	
22	22 13C-1,2,3,7,8,9-HxCDD	9.90e5	1.38e6	1.261	NO	10.02	34.74	34.74	1.02	1.02	NO	172.60	86.5	0.266	
23	23 13C-1,2,3,4,6,7,8-HpCDD	9.06e5	1.38e6	1.051	NO	10.02	38.19	38.22	1.13	1.13	NO	219.15	109.8	0.362	
24	24 13C-OCDD	1.33e6	1.38e6	0.887	NO	10.02	41.34	41.25	1.22	1.22	NO	336.44	84.3	0.378	
25	25 13C-2,3,7,8-TCDF	1.86e6	1.91e6	0.785	NO	10.02	24.82	24.82	0.99	0.99	NO	178.53	89.5	0.265	
26	26 13C-1,2,3,7,8-PeCDF	1.70e6	1.91e6	1.582	NO	10.02	29.66	29.64	1.18	1.18	NO	202.47	101.5	0.368	
27	27 13C-2,3,4,7,8-PeCDF	1.55e6	1.91e6	1.573	NO	10.02	30.67	30.67	1.22	1.22	NO	191.83	96.2	0.382	
28	28 13C-1,2,3,4,7,8-HxCDF	1.24e6	1.38e6	0.520	NO	10.02	33.52	33.52	0.99	0.99	NO	179.21	89.8	0.331	
29	29 13C-1,2,3,6,7,8-HxCDF	1.32e6	1.38e6	0.517	NO	10.02	33.63	33.64	0.99	0.99	NO	171.24	85.8	0.297	
30	30 13C-2,3,4,6,7,8-HxCDF	1.21e6	1.38e6	0.522	NO	10.02	34.21	34.21	1.01	1.01	NO	169.59	85.0	0.320	
31	31 13C-1,2,3,7,8,9-HxCDF	1.10e6	1.38e6	0.518	NO	10.02	35.08	35.08	1.03	1.03	NO	182.16	91.3	0.380	
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.03e6	1.38e6	0.446	NO	10.02	36.79	36.80	1.09	1.09	NO	193.05	96.8	0.342	

Dataset: U:\VG12.PRO\Results\200307R1\200307R1-8a.qld

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Name: 200307R1_8, Date: 07-Mar-2020, Time: 15:15:55, ID: 2000144-02 PDI-055SC-A-02-03-191015 17.22, Description: PDI-055SC-A-02-03-191015

#	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	7.55e5	1.38e6	0.435	NO	10.02	38.88	38.84	1.15	1.15	NO	210.25	105.4	0.508	
34	34 13C-OCDF	1.70e6	1.38e6	0.878	NO	10.02	41.52	41.43	1.22	1.22	NO	354.05	88.7	0.330	
35	35 37Cl-2,3,7,8-TCDD	5.36e5	1.27e6			10.02	25.81	25.81	1.03	1.03	NO	71.543	89.6	0.079	
36	36 13C-1,2,3,4-TCDD	1.27e6	1.27e6	0.791	NO	10.02	25.05	25.08	1.00	1.00	NO	199.51	100.0	0.175	
37	37 13C-1,2,3,4-TCDF	1.91e6	1.91e6	0.795	NO	10.02	23.19	23.24	1.00	1.00	NO	199.51	100.0	0.288	
38	38 13C-1,2,3,4,6,9-HxCDF	1.38e6	1.38e6	0.522	NO	10.02	33.88	33.90	1.00	1.00	NO	199.51	100.0	0.331	
39	39 Total Tetra-Dioxins		1.36e6			10.02	24.62		0.00		NO	35.107		0.104	35.308
40	40 Total Penta-Dioxins		1.12e6			10.02	29.96		0.00		NO	24.175		0.124	32.829
41	41 Total Hexa-Dioxins		0.00e0			10.02	33.63		0.00		NO	329.86		0.260	329.86
42	42 Total Hepta-Dioxins		9.06e5			10.02	37.64		0.00		NO	1992.1		0.783	1992.1
43	43 Total Tetra-Furans		1.86e6			10.02	23.61		0.00		NO	767.17		0.191	796.68 P
44	44 1st Func. Penta-Furans		0.00e0			10.02	27.09		0.00		NO	38.994		0.050	38.994
45	45 Total Penta-Furans		0.00e0			10.02	29.27		0.00		NO	626.54		0.227	627.99
46	46 Total Hexa-Furans		0.00e0			10.02	33.56		0.00		NO	509.82		0.203	510.19
47	47 Total Hepta-Furans		0.00e0			10.02	37.83		0.00		NO	344.77		0.330	344.77

Dataset: U:\VG12.PRO\Results\200307R1\200307R1-8a.qld

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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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Tetra-Dioxins

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	39 Total Tetra-Dioxins	26.17	0.856	NO	3.46e3	5.95e5	1.12	1.12
2	1 2,3,7,8-TCDD	25.81	0.769	NO	2.27e4	5.95e5	7.79	7.79
3	39 Total Tetra-Dioxins	25.53	0.784	NO	1.79e4	5.95e5	6.09	6.09
4	39 Total Tetra-Dioxins	25.24	0.810	NO	7.35e2	5.95e5	0.245	0.245
5	39 Total Tetra-Dioxins	25.05	0.725	NO	1.45e3	5.95e5	0.515	0.515
6	39 Total Tetra-Dioxins	24.67	0.770	NO	1.58e3	5.95e5	0.541	0.541
7	39 Total Tetra-Dioxins	24.46	0.769	NO	9.79e2	5.95e5	0.336	0.336
8	39 Total Tetra-Dioxins	24.21	0.859	NO	1.81e3	5.95e5	0.584	0.584
9	39 Total Tetra-Dioxins	23.97	0.837	NO	8.18e3	5.95e5	2.68	2.68
10	39 Total Tetra-Dioxins	23.70	0.777	NO	6.18e3	5.95e5	2.11	2.11
11	39 Total Tetra-Dioxins	23.43	0.835	NO	1.46e3	5.95e5	0.481	0.481
12	39 Total Tetra-Dioxins	22.44	0.726	NO	2.00e3	5.95e5	0.711	0.711
13	39 Total Tetra-Dioxins	21.93	0.778	NO	8.88e3	5.95e5	3.03	3.03
14	39 Total Tetra-Dioxins	21.54	0.799	NO	2.60e4	5.95e5	8.75	8.75
15	39 Total Tetra-Dioxins	26.81	1.042	YES	7.91e2	5.95e5	0.000	0.201
16	39 Total Tetra-Dioxins	26.32	0.872	NO	4.21e2	5.95e5	0.135	0.135

Penta-Dioxins

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	40 Total Penta-Dioxins	30.55	0.612	NO	2.70e3	4.34e5	1.38	1.38
2	40 Total Penta-Dioxins	30.19	0.692	NO	7.83e3	4.34e5	0.000	3.72
3	40 Total Penta-Dioxins	29.97	0.646	NO	3.35e3	4.34e5	1.66	1.66
4	40 Total Penta-Dioxins	29.89	0.614	NO	5.24e3	4.34e5	2.67	2.67
5	40 Total Penta-Dioxins	29.72	0.734	YES	1.13e4	4.34e5	0.000	4.86
6	40 Total Penta-Dioxins	29.19	0.687	NO	5.91e3	4.34e5	2.82	2.82
7	40 Total Penta-Dioxins	28.70	0.603	NO	1.96e4	4.34e5	10.1	10.1
8	40 Total Penta-Dioxins	31.38	0.620	NO	1.52e3	4.34e5	0.769	0.769
9	40 Total Penta-Dioxins	31.08	0.625	NO	1.68e3	4.34e5	0.845	0.845
10	2 1,2,3,7,8-PeCDD	30.99	0.638	NO	7.93e3	4.34e5	3.95	3.95
11	40 Total Penta-Dioxins	30.13	4.636	YES	1.09e3	4.34e5	0.000	0.0740

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Hexa-Dioxins

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	5 1,2,3,7,8,9-HxCDD	34.75	1.391	NO	1.82e4	5.52e5	6.50	6.50
2	41 Total Hexa-Dioxins	34.67	1.321	NO	1.43e4	5.46e5	5.23	5.23
3	4 1,2,3,6,7,8-HxCDD	34.49	1.280	NO	5.44e4	5.90e5	18.6	18.6
4	3 1,2,3,4,7,8-HxCDD	34.38	1.348	NO	7.45e3	4.96e5	2.58	2.58
5	41 Total Hexa-Dioxins	33.83	1.211	NO	1.99e4	5.46e5	7.55	7.55
6	41 Total Hexa-Dioxins	33.71	1.241	NO	2.86e5	5.46e5	107	107
7	41 Total Hexa-Dioxins	33.47	1.270	NO	3.69e4	5.46e5	13.7	13.7
8	41 Total Hexa-Dioxins	32.91	1.242	NO	4.49e5	5.46e5	168	168

Hepta-Dioxins

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	38.23	1.032	NO	1.99e6	4.64e5	859	859
2	42 Total Hepta-Dioxins	37.19	1.035	NO	2.64e6	4.64e5	1130	1130

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Tetra-Furans

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	43 Total Tetra-Furans	23.80	0.767	NO	7.15e5	8.20e5	193	193
2	43 Total Tetra-Furans	23.24	0.770	NO	3.91e5	8.20e5	105	105
3	43 Total Tetra-Furans	22.94	0.758	NO	8.84e3	8.20e5	2.40	2.40
4	43 Total Tetra-Furans	22.79	0.734	NO	7.19e3	8.20e5	1.99	1.99
5	43 Total Tetra-Furans	22.32	0.765	NO	4.05e4	8.20e5	10.9	10.9
6	43 Total Tetra-Furans	22.13	0.734	NO	1.25e4	8.20e5	3.45	3.45
7	43 Total Tetra-Furans	21.98	0.781	NO	6.48e4	8.20e5	17.3	17.3
8	43 Total Tetra-Furans	21.51	0.760	NO	2.13e5	8.20e5	57.7	57.7
9	43 Total Tetra-Furans	21.13	0.779	NO	4.93e4	8.20e5	13.2	13.2
10	43 Total Tetra-Furans	20.60	0.772	NO	9.41e4	8.20e5	25.3	25.3
11	43 Total Tetra-Furans	20.03	0.793	NO	1.70e4	8.20e5	4.48	4.48
12	43 Total Tetra-Furans	19.52	0.753	NO	8.91e3	8.20e5	2.43	2.43
13	43 Total Tetra-Furans	26.98	0.983	YES	1.23e5	8.20e5	0.000	25.9
14	43 Total Tetra-Furans	26.71	0.896	YES	5.60e3	8.20e5	0.000	1.29
15	43 Total Tetra-Furans	26.53	0.764	NO	3.63e3	8.20e5	0.980	0.980
16	43 Total Tetra-Furans	26.36	2.100	YES	1.38e3	8.20e5	0.000	0.136
17	43 Total Tetra-Furans	25.94	0.584	YES	7.73e2	8.20e5	0.000	0.208
18	43 Total Tetra-Furans	25.78	0.771	NO	5.98e2	8.20e5	0.161	0.161
19	43 Total Tetra-Furans	25.53	0.736	NO	1.13e4	8.20e5	3.11	3.11
20	43 Total Tetra-Furans	25.24	0.781	NO	5.27e4	8.20e5	14.1	14.1
21	8 2,3,7,8-TCDF	24.85	0.771	NO	8.80e5	8.20e5	236	236
22	43 Total Tetra-Furans	24.73	0.749	NO	2.17e5	8.20e5	59.4	59.4
23	43 Total Tetra-Furans	24.60	0.952	YES	9.02e3	8.20e5	0.000	1.96
24	43 Total Tetra-Furans	24.34	0.772	NO	2.82e4	8.20e5	7.56	7.56
25	43 Total Tetra-Furans	24.13	0.789	NO	3.32e4	8.20e5	8.80	8.80

Penta-Furans function 1

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	44 1st Func. Penta-Furans	26.98	1.561	NO	1.86e5	9.95e5	39.0	39.0

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Penta-Furans

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	45 Total Penta-Furans	29.05	1.412	NO	3.47e3	9.95e5	0.758	0.758
2	45 Total Penta-Furans	28.64	1.553	NO	6.16e5	9.95e5	130	130
3	45 Total Penta-Furans	28.49	1.631	NO	2.13e4	9.95e5	4.40	4.40
4	45 Total Penta-Furans	31.75	2.602	YES	7.16e3	9.95e5	0.000	0.898
5	45 Total Penta-Furans	31.63	1.563	NO	3.57e4	9.95e5	7.49	7.49
6	10 2,3,4,7,8-PeCDF	30.68	1.557	NO	5.91e5	9.48e5	124	124
7	45 Total Penta-Furans	30.56	1.669	NO	8.90e3	9.95e5	1.82	1.82
8	45 Total Penta-Furans	30.45	1.618	NO	3.09e3	9.95e5	0.640	0.640
9	45 Total Penta-Furans	29.93	1.559	NO	3.64e5	9.95e5	76.4	76.4
10	9 1,2,3,7,8-PeCDF	29.66	1.561	NO	1.06e6	1.04e6	214	214
11	45 Total Penta-Furans	29.46	1.561	NO	1.44e5	9.95e5	30.1	30.1
12	45 Total Penta-Furans	29.25	1.565	NO	1.77e5	9.95e5	37.2	37.2
13	45 Total Penta-Furans	30.97	1.870	YES	3.13e3	9.95e5	0.000	0.547

Hexa-Furans

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	46 Total Hexa-Furans	32.72	1.320	NO	1.07e3	4.17e5	0.283	0.283
2	46 Total Hexa-Furans	32.52	1.223	NO	1.67e5	4.17e5	45.5	45.5
3	46 Total Hexa-Furans	32.35	1.203	NO	6.12e4	4.17e5	16.8	16.8
4	14 1,2,3,7,8,9-HxCDF	35.13	1.168	NO	5.06e4	3.76e5	16.6	16.6
5	13 2,3,4,6,7,8-HxCDF	34.22	1.247	NO	6.58e4	4.17e5	17.8	17.8
6	46 Total Hexa-Furans	34.02	1.734	YES	1.88e3	4.17e5	0.000	0.365
7	46 Total Hexa-Furans	33.91	1.328	NO	8.24e3	4.17e5	2.16	2.16
8	12 1,2,3,6,7,8-HxCDF	33.65	1.218	NO	2.35e5	4.51e5	63.6	63.6
9	11 1,2,3,4,7,8-HxCDF	33.53	1.214	NO	8.88e5	4.24e5	251	251
10	46 Total Hexa-Furans	33.42	1.156	NO	8.10e3	4.17e5	2.26	2.26
11	46 Total Hexa-Furans	33.28	1.410	NO	1.36e3	4.17e5	0.347	0.347
12	46 Total Hexa-Furans	33.07	1.214	NO	2.56e5	4.17e5	70.0	70.0
13	46 Total Hexa-Furans	32.88	1.156	NO	4.24e3	4.17e5	1.18	1.18
14	46 Total Hexa-Furans	35.14	1.259	NO	7.72e4	4.17e5	20.8	20.8
15	46 Total Hexa-Furans	33.76	1.094	NO	4.97e3	4.17e5	1.43	1.43

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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	36.81	1.015	NO	3.35e5	3.17e5	123	123
2	16 1,2,3,4,7,8,9-HpCDF	38.85	1.018	NO	1.03e5	2.29e5	44.7	44.7
3	47 Total Hepta-Furans	37.41	1.008	NO	4.10e5	2.73e5	174	174
4	47 Total Hepta-Furans	37.19	0.957	NO	6.49e3	2.73e5	2.83	2.83

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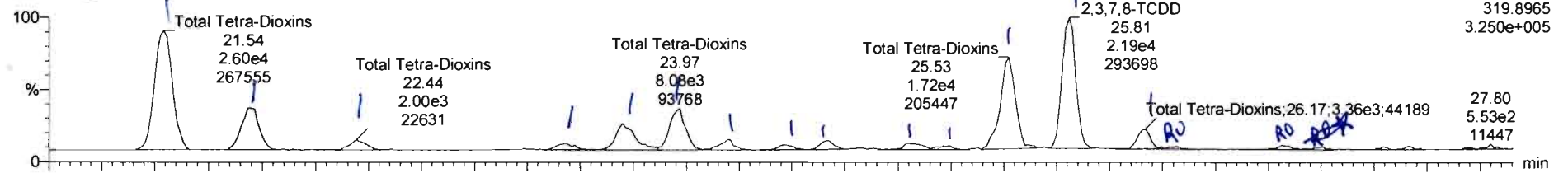
dy 03-19-2020

Name: 200307R1_8, Date: 07-Mar-2020, Time: 15:15:55, ID: 2000144-02 PDI-055SC-A-02-03-191015 17.22, Description: PDI-055SC-A-02-03-191015

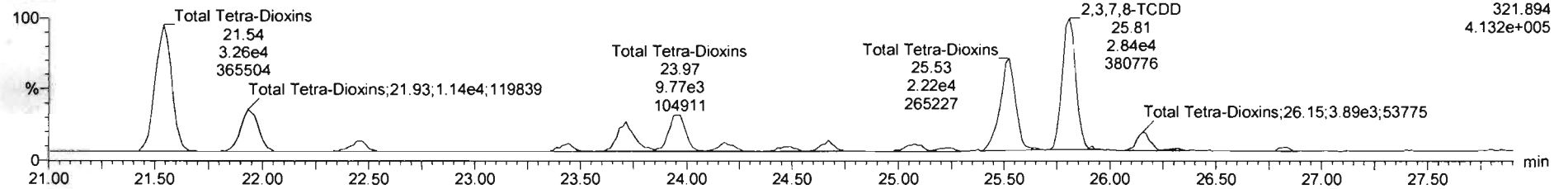
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2,3,7,8-TCDD

200307R1_8

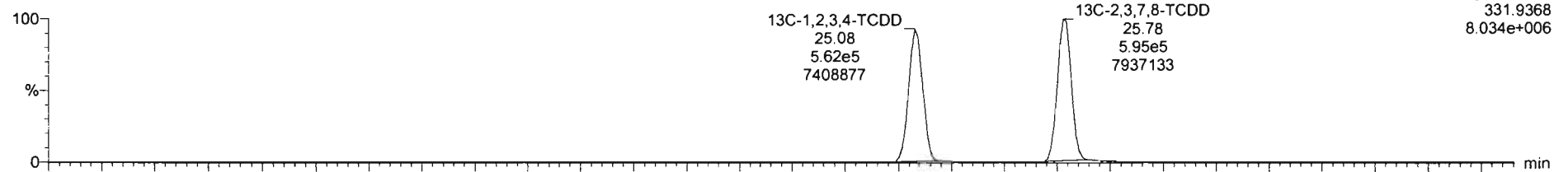


200307R1_8

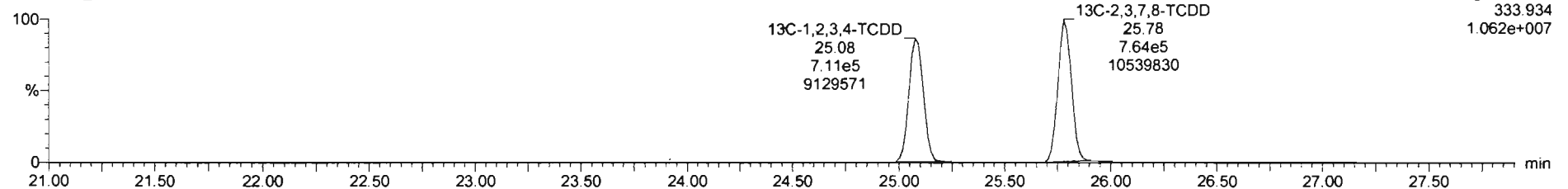


13C-2,3,7,8-TCDD

200307R1_8

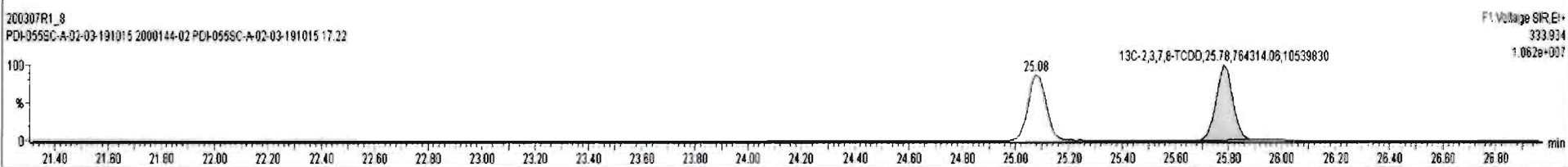
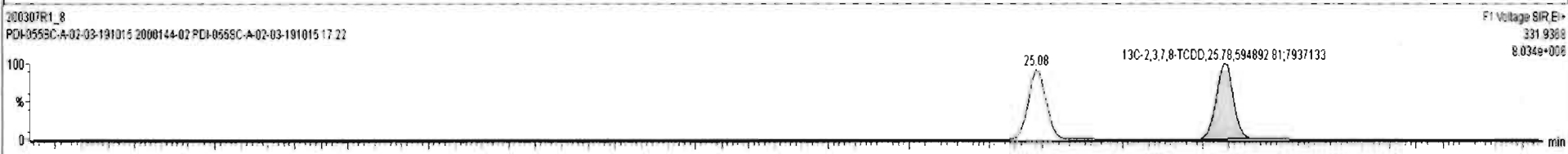
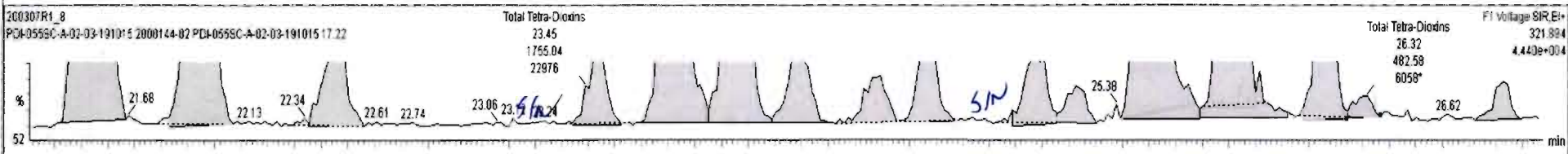
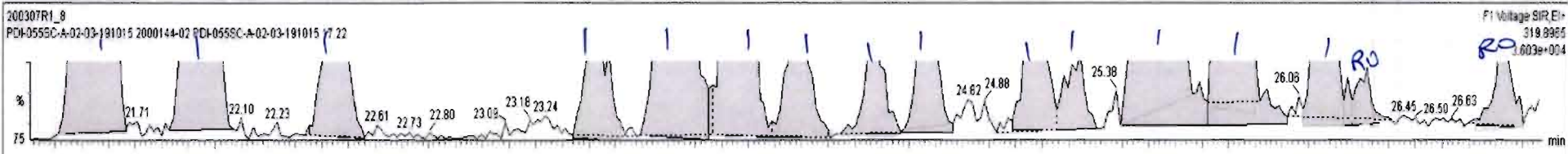


200307R1_8



#	Name	Resp	RA	n/y	RF	wt%	Pred RT	RT	Pred.R...	RRT	RRT Fail	Conc	%Rec	EL	EMPC
39	Total Tetra-Dioxins				0.9835	10.025	24.62		0.000		NO	34.46		0.10A	34.77
40	Total Penta-Dioxins				0.9212	10.025	29.95		0.000		NO	23.12		0.12A	32.12
41	Total Hexa-Dioxins				0.9844	10.025	33.63		0.000		NO	327.7		0.260	329.2
42	Total Hepta-Dioxins				1.0051	10.025	37.64		0.000		NO	1902		0.783	1992
43	Total Tetra-Furans				0.9154	10.025	23.61		0.000		NO	745.2		0.191	773.9
44	1st Func. Penta-Furans				0.9594	10.025	27.09		0.000		NO	39.60		0.0506	39.90
45	Total Penta-Furans				0.9594	10.025	29.27		0.000		NO	617.1		0.228	619.2
46	Total Hexa-Furans				1.0520	10.025	33.55		0.000		NO	481.5		0.203	491.8
47	Total Hepta-Furans				1.0483	10.025	37.83		0.000		NO	344.5		0.331	345.5
48	OPX1														

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc
1	39 Total Tetra-Dioxins	24.62	21.54	2.589e4	3.256e4	0.770	0.80	NO	8.7430	8.7429
2	39 Total Tetra-Dioxins	24.62	21.93	6.876e3	1.142e4	0.770	0.78	NO	3.0300	3.0300
3	39 Total Tetra-Dioxins	24.62	22.44	2.000e3	2.780e3	0.770	0.73	NO	0.71100	0.71098
4	39 Total Tetra-Dioxins	24.62	23.43	1.475e3	1.755e3	0.770	0.84	NO	0.48300	0.48285
5	39 Total Tetra-Dioxins	24.62	23.70	6.176e3	7.949e3	0.770	0.78	NO	2.1080	2.1082
6	39 Total Tetra-Dioxins	24.62	23.97	8.175e3	9.772e3	0.770	0.84	NO	2.6780	2.6786
7	39 Total Tetra-Dioxins	24.62	24.21	1.809e3	2.105e3	0.770	0.85	NO	0.58400	0.58430
8	39 Total Tetra-Dioxins	24.62	24.45	0.980e3	1.200e3	0.770	0.73	NO	0.22700	0.22700



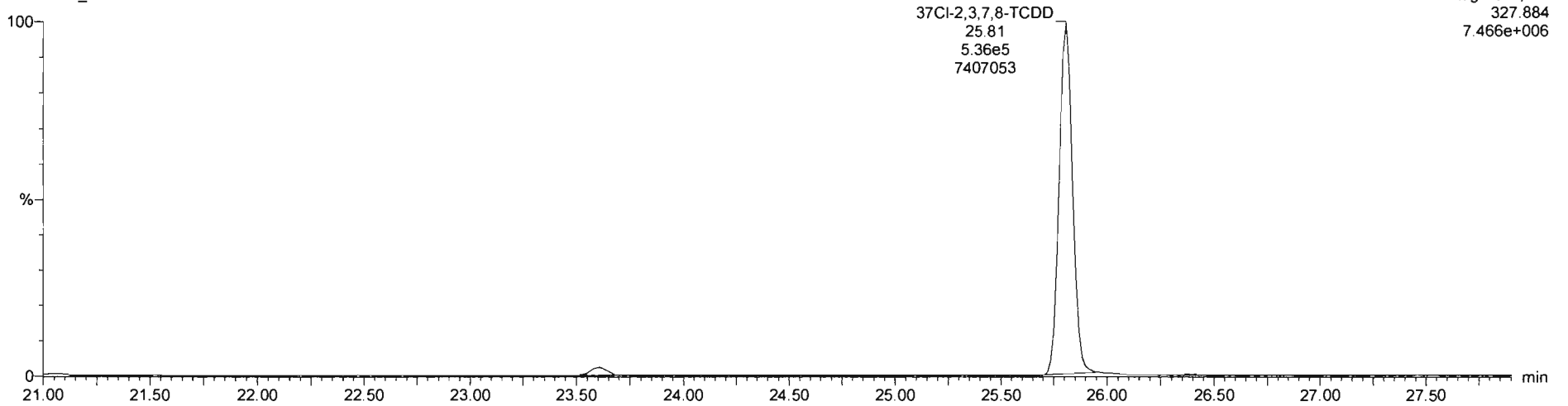
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Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

Name: 200307R1_8, Date: 07-Mar-2020, Time: 15:15:55, ID: 2000144-02 PDI-055SC-A-02-03-191015 17.22, Description: PDI-055SC-A-02-03-191015

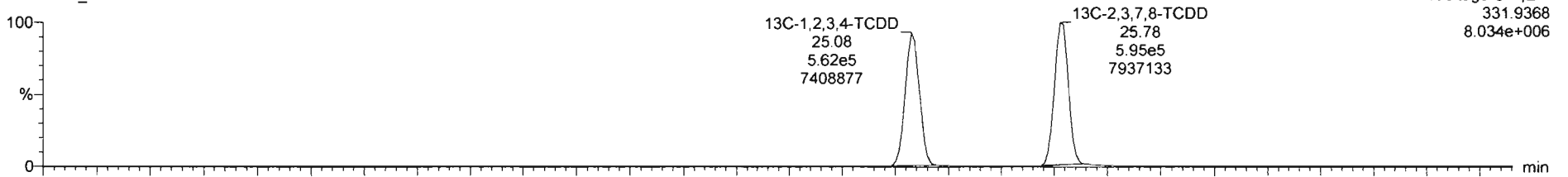
37Cl-2,3,7,8-TCDD

200307R1_8

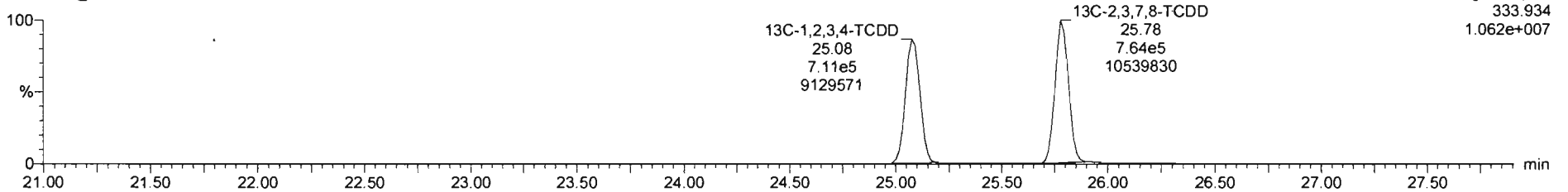


13C-1,2,3,4-TCDD

200307R1_8



200307R1_8



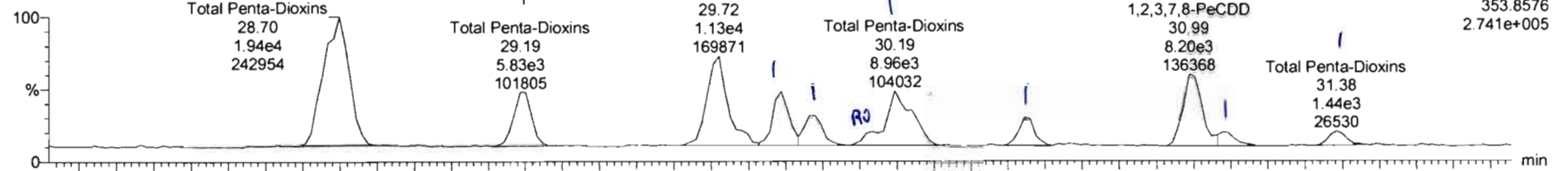
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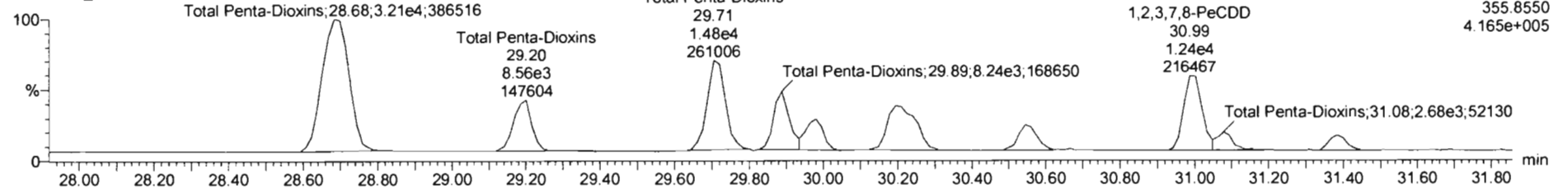
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1,2,3,7,8-PeCDD

200307R1_8

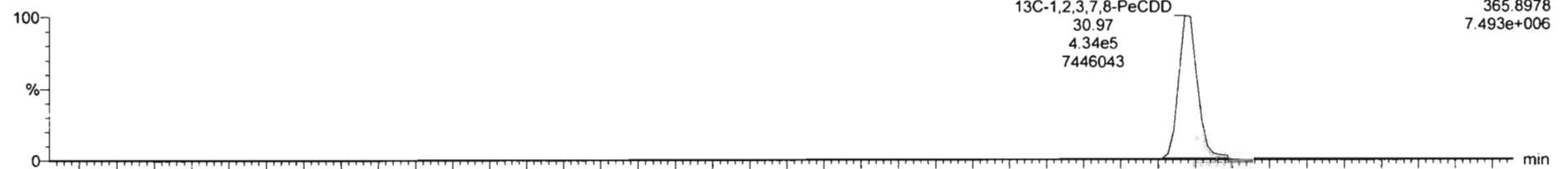


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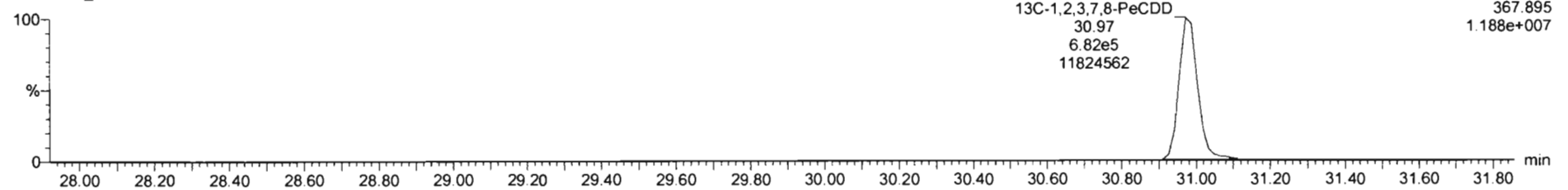


13C-1,2,3,7,8-PeCDD

200307R1_8

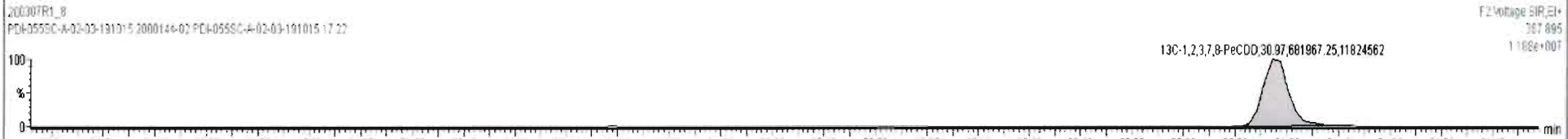
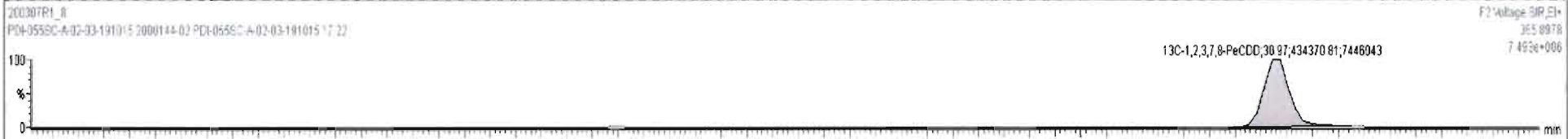
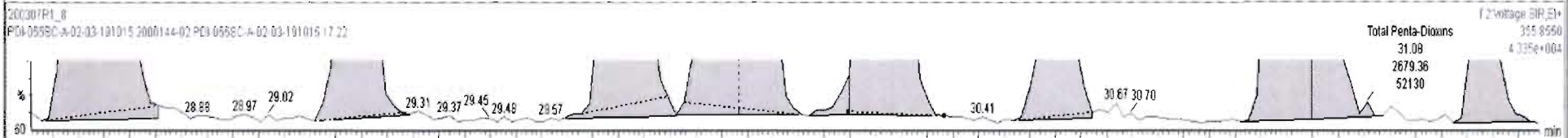
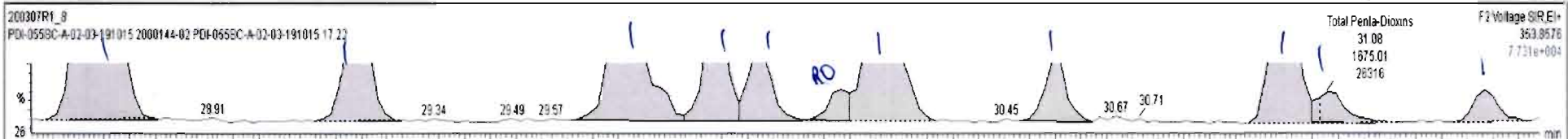


200307R1_8



#	Name	Resp	RA	n/y	RF	wt/vol	Pred RT	RT	Pred R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9635	10.025	24.62		0.000		NO	35.11	24.62	0.104	35.31
40	Total Penta-Dioxins				0.9212	10.025	29.96		0.000		NO	24.16		0.124	32.83

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1	40 Total Penta-Dioxins	29.96	28.70	1.955e4	3.245e4	0.630	0.60	NO	10.088	10.088
2	40 Total Penta-Dioxins	29.96	29.19	5.914e3	8.808e3	0.630	0.69	NO	2.8172	2.8172
3	40 Total Penta-Dioxins	29.96	29.72	1.126e4	1.536e4	0.630	0.73	YES	4.8624	0.00000
4	40 Total Penta-Dioxins	29.96	29.89	5.238e3	8.531e3	0.630	0.61	NO	2.6712	2.6712
5	40 Total Penta-Dioxins	29.96	29.97	3.351e3	5.106e3	0.630	0.65	NO	1.6580	1.6580
6	40 Total Penta-Dioxins	29.96	30.13	1.085e3	2.342e2	0.630	4.64	YES	0.074046	0.00000
7	40 Total Penta-Dioxins	29.96	30.19	7.834e3	1.133e4	0.630	0.69	NO	3.7174	0.00000
8	40 Total Penta-Dioxins	29.96	30.55	2.696e3	4.408e3	0.630	0.61	NO	1.3782	1.3782
9	2 1,2,3,7,8-PeCDD	30.99	30.99	7.930e3	1.244e4	0.630	0.64	NO	3.8513	3.8513
10	40 Total Penta-Dioxins	29.96	31.08	1.675e3	2.679e3	0.630	0.63	NO	0.84473	0.84473
11	40 Total Penta-Dioxins	29.96	31.38	1.517e3	2.447e3	0.630	0.62	NO	0.76905	0.76905



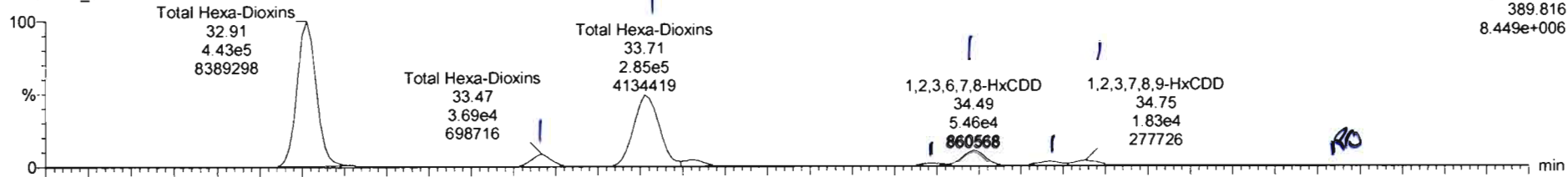
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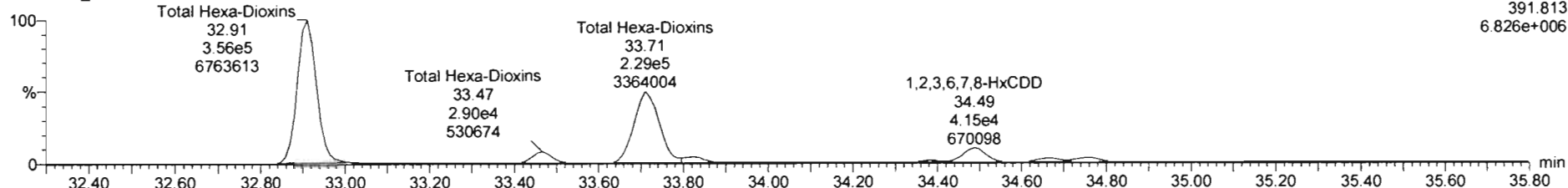
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1,2,3,4,7,8-HxCDD

200307R1_8

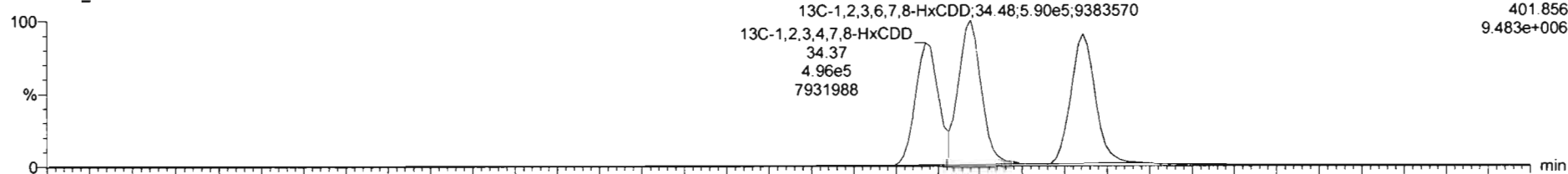


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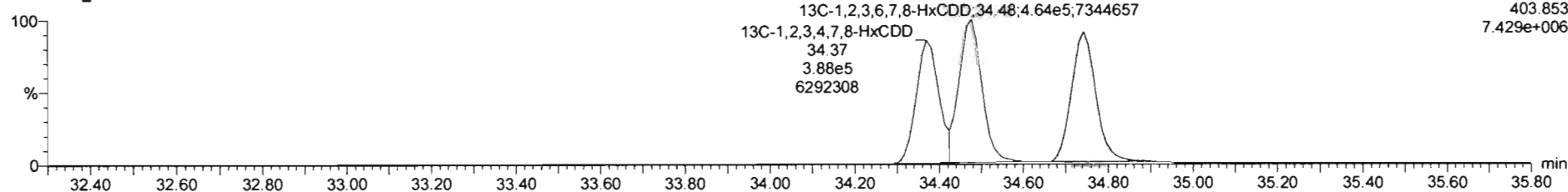


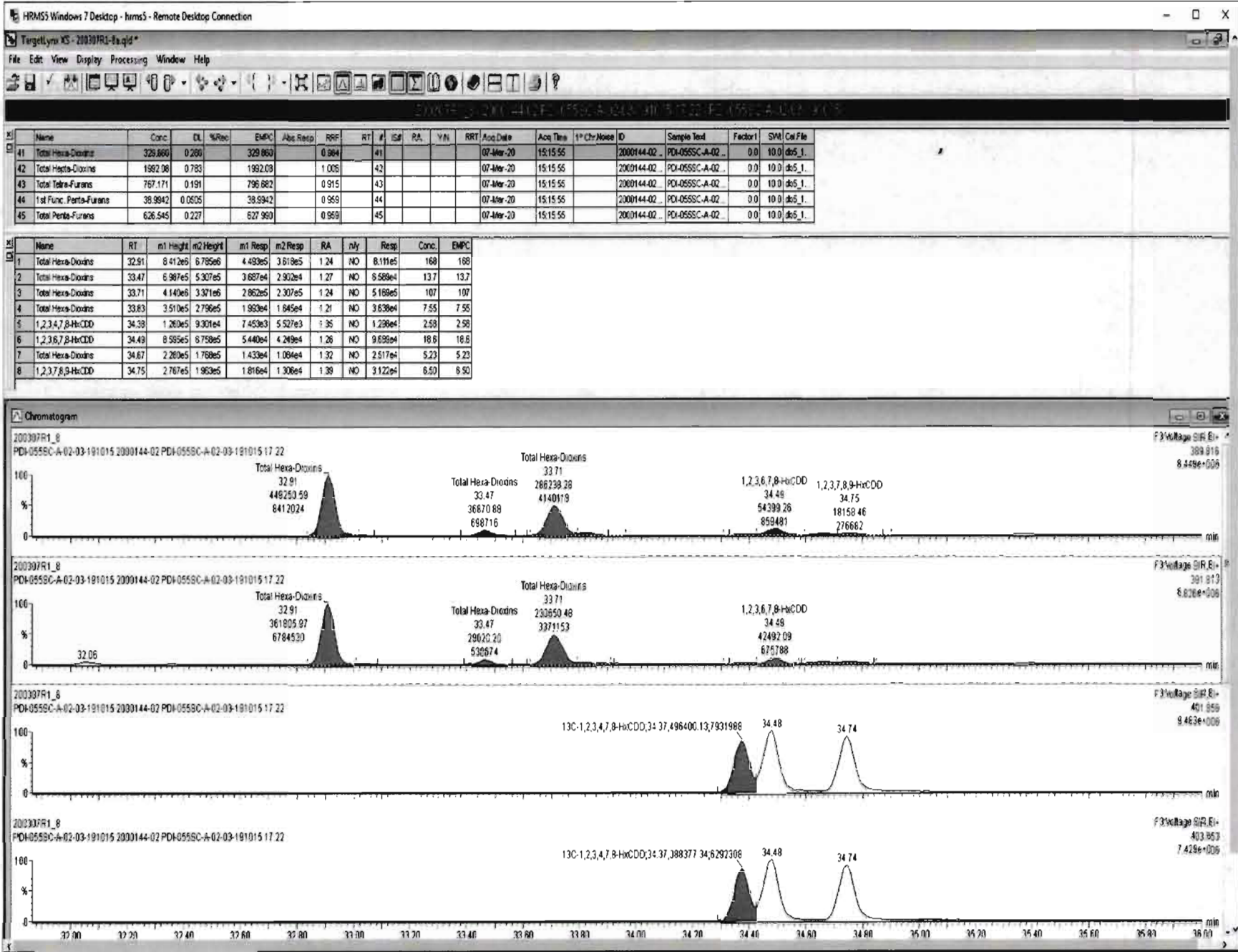
13C-1,2,3,4,7,8-HxCDD

200307R1_8



200307R1_8





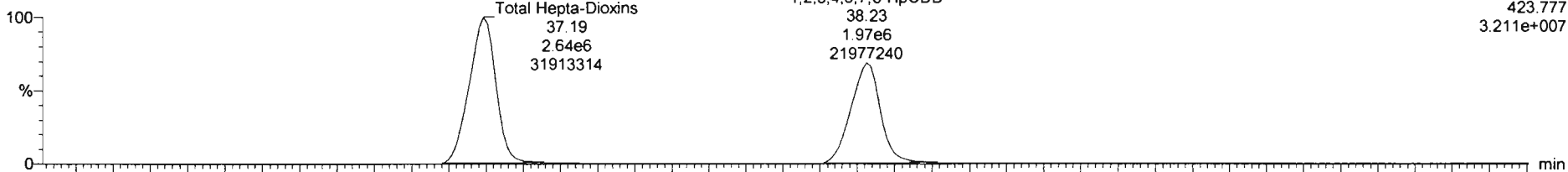
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Name: 200307R1_8, Date: 07-Mar-2020, Time: 15:15:55, ID: 2000144-02 PDI-055SC-A-02-03-191015 17.22, Description: PDI-055SC-A-02-03-191015

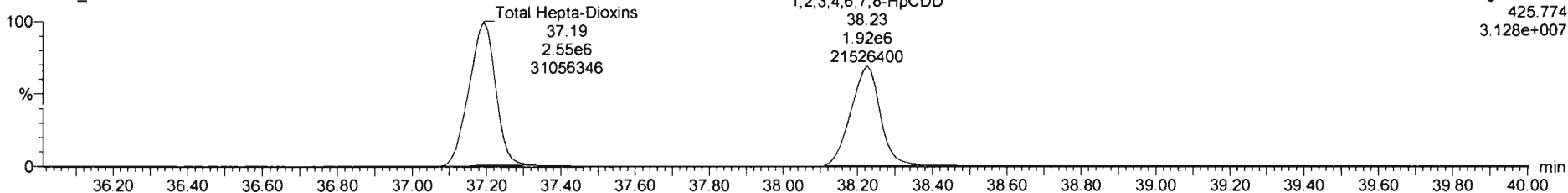
1,2,3,4,6,7,8-HpCDD

200307R1_8



F4: Voltage SIR, EI+
423.777
3.211e+007

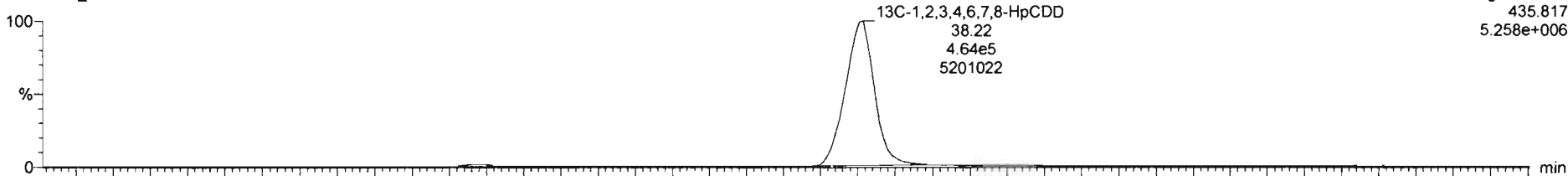
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F4: Voltage SIR, EI+
425.774
3.128e+007

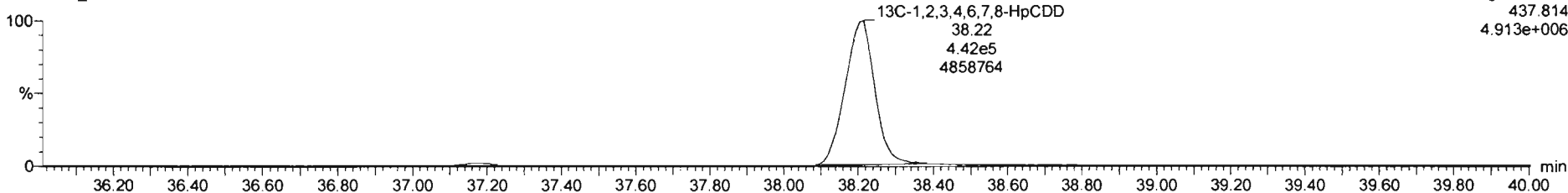
13C-1,2,3,4,6,7,8-HpCDD

200307R1_8



F4: Voltage SIR, EI+
435.817
5.258e+006

200307R1_8

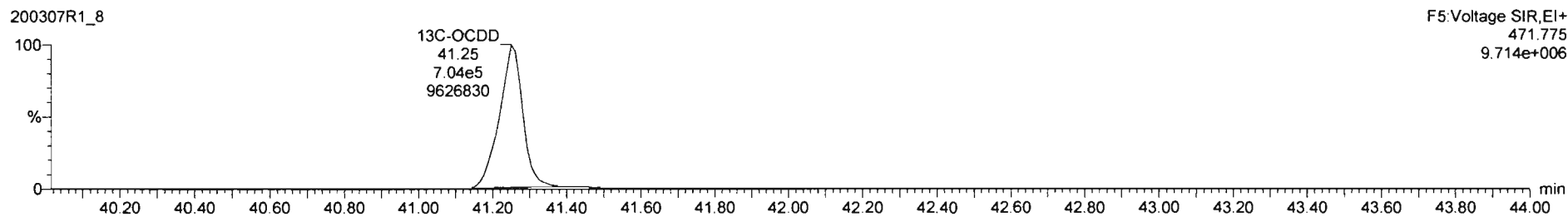
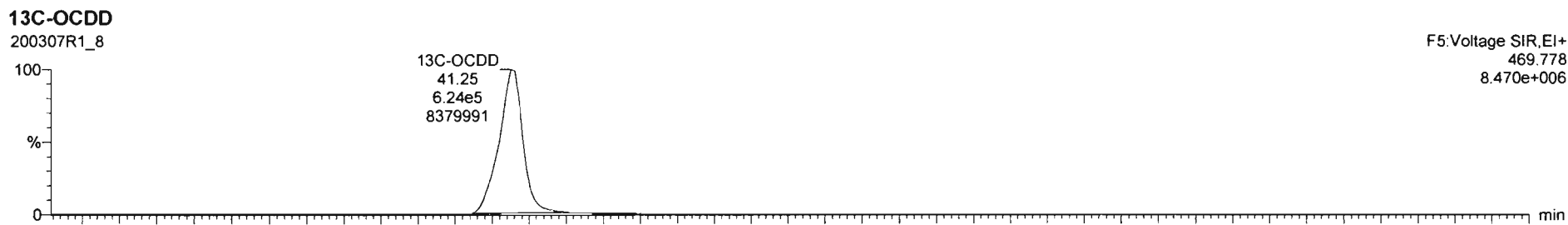
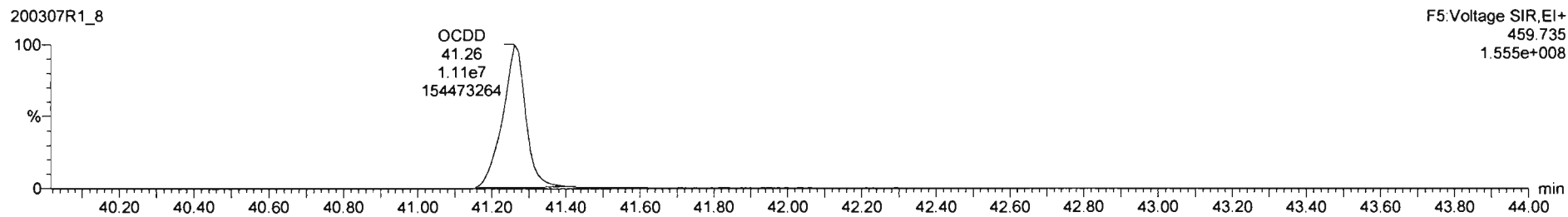
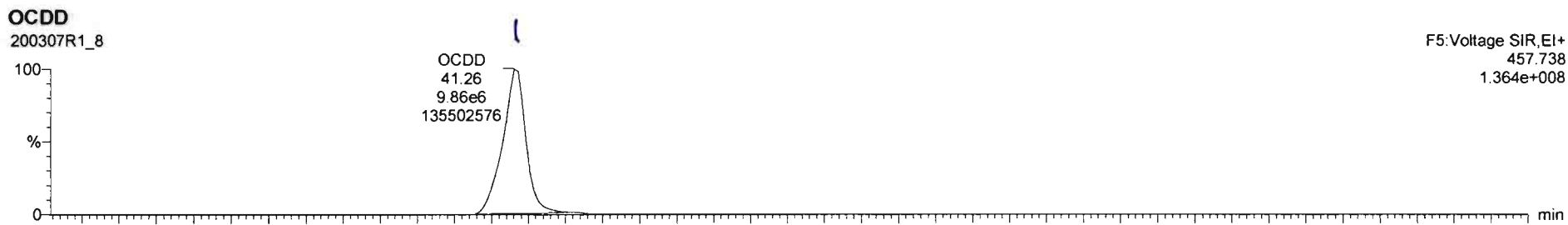


F4: Voltage SIR, EI+
437.814
4.913e+006

Dataset: Untitled

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Name: 200307R1_8, Date: 07-Mar-2020, Time: 15:15:55, ID: 2000144-02 PDI-055SC-A-02-03-191015 17.22, Description: PDI-055SC-A-02-03-191015

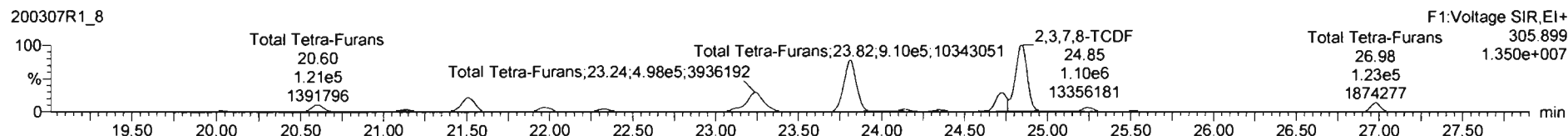
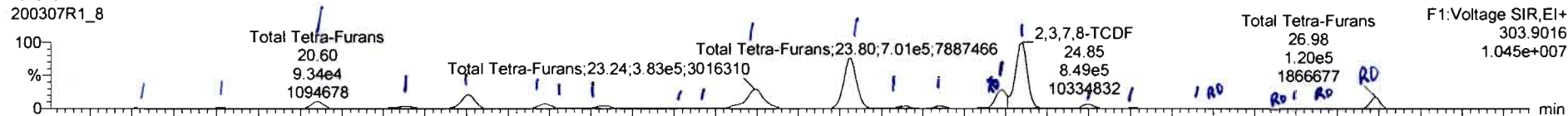


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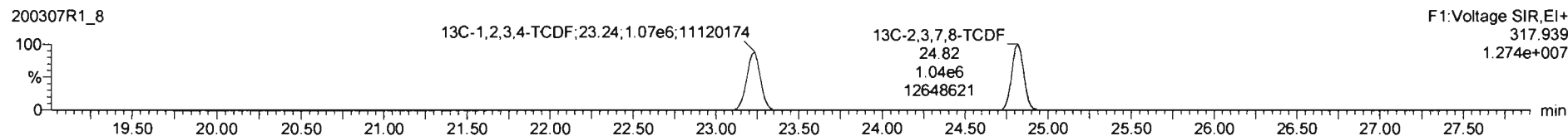
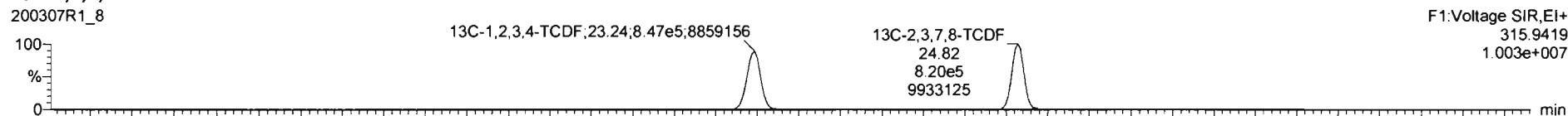
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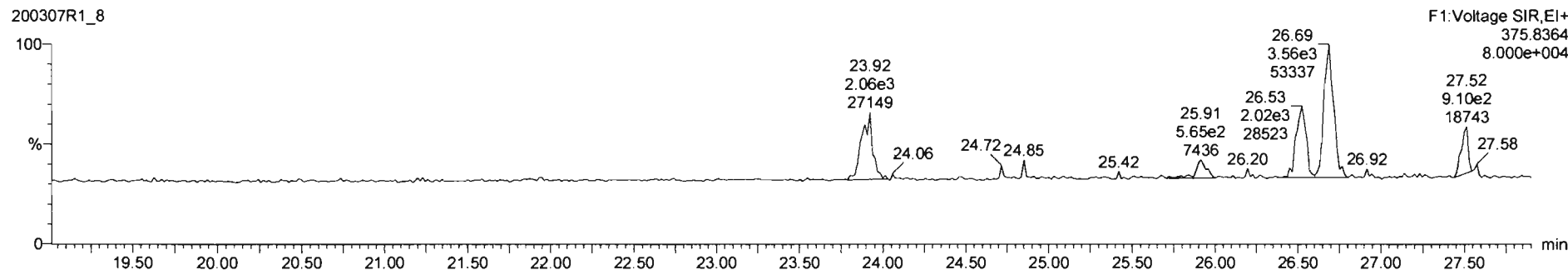
2,3,7,8-TCDF



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



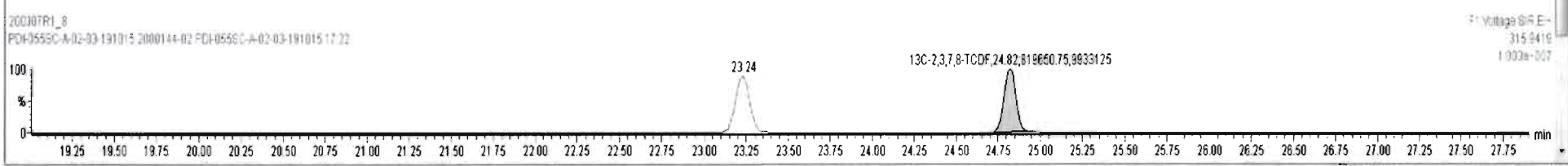
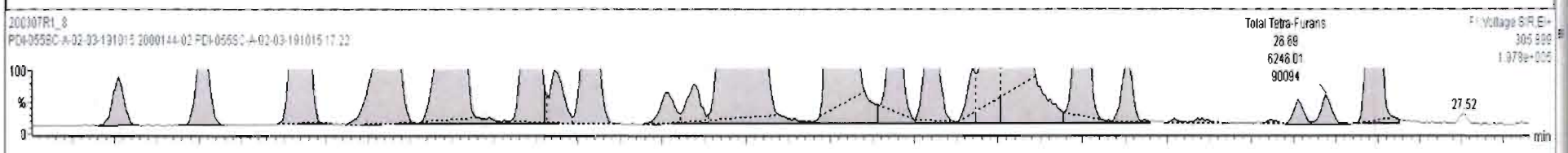
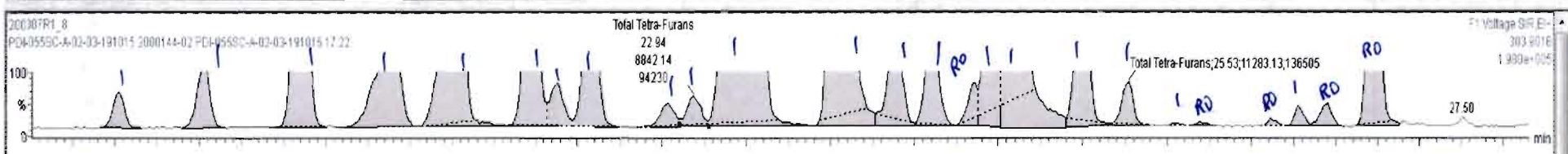
DPE1



200307R1_8.qld* 44:12:00 200307R1_8.qld* 44:12:00 200307R1_8.qld* 44:12:00 200307R1_8.qld* 44:12:00

#	Name	Resp	RA	nHy	RRF	wVVol	Pred RT	RT	Pred R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
43	Total Tetra-Furans				0.9154	10.025	23.61		0.000		NO	767.2		0.191	796.7
44	1st Func. Penta-Furans				0.9694	10.025	27.09		0.000		NO	39.60		0.0506	39.60

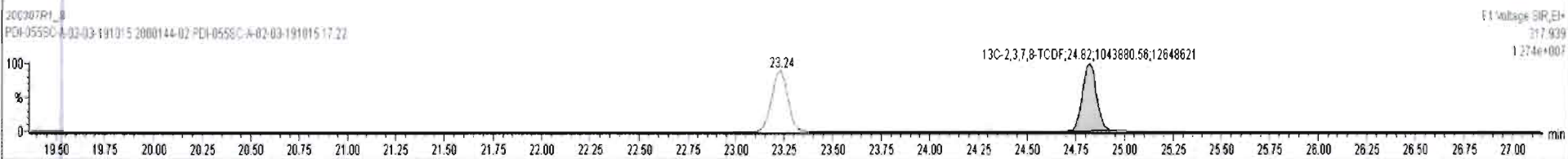
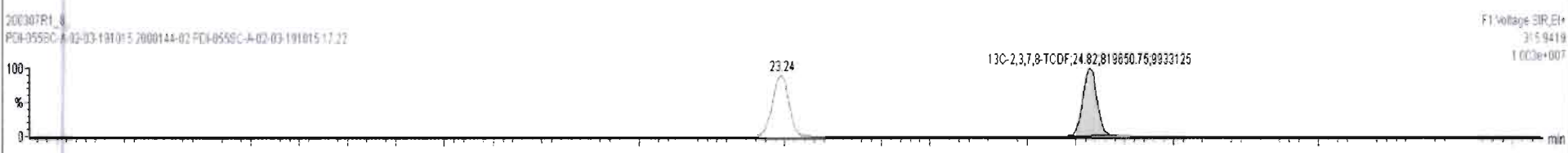
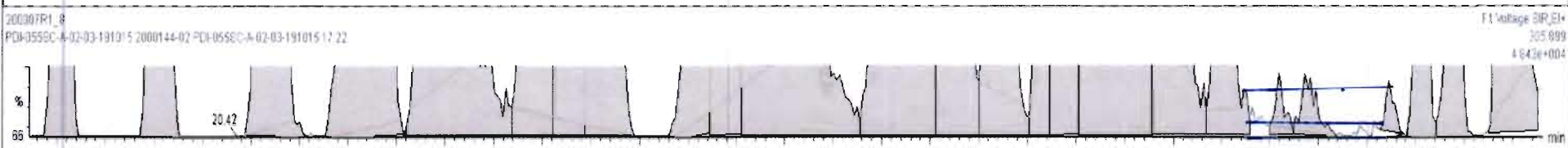
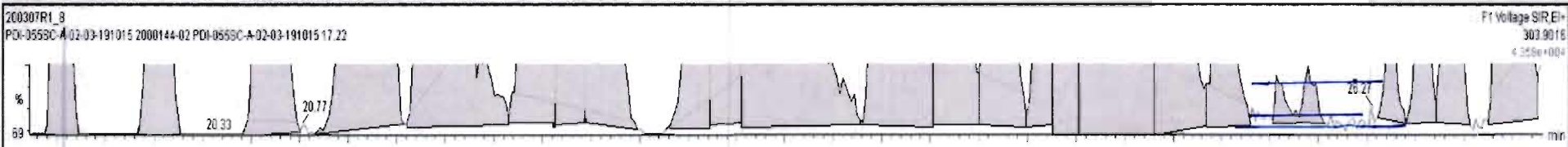
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nHy	EMPC	Conc.
1	43 Total Tetra-Furans	23.61	19.52	8.913e3	1.184e4	0.770	0.75	NO	2.4272	2.4272
2	43 Total Tetra-Furans	23.61	20.03	1.696e4	2.139e4	0.770	0.79	NO	4.4844	4.4844
3	43 Total Tetra-Furans	23.61	20.60	9.412e4	1.219e5	0.770	0.77	NO	25.268	25.268
4	43 Total Tetra-Furans	23.61	21.13	4.925e4	6.326e4	0.770	0.78	NO	13.159	13.159
5	43 Total Tetra-Furans	23.61	21.61	2.130e5	2.804e5	0.770	0.76	NO	57.706	57.706
6	43 Total Tetra-Furans	23.61	21.96	6.483e4	8.297e4	0.770	0.78	NO	17.286	17.286
7	43 Total Tetra-Furans	23.61	22.13	1.248e4	1.701e4	0.770	0.73	NO	3.4491	3.4491
8	43 Total Tetra-Furans	23.61	22.32	4.045e4	5.289e4	0.770	0.76	NO	10.916	10.916
9	43 Total Tetra-Furans	23.61	22.79	7.187e3	9.791e3	0.770	0.73	NO	1.9956	1.9956
10	43 Total Tetra-Furans	23.61	22.94	8.842e3	1.166e4	0.770	0.76	NO	2.3975	2.3975
11	43 Total Tetra-Furans	23.61	23.24	3.911e5	5.078e5	0.770	0.77	NO	105.13	105.13
12	43 Total Tetra-Furans	23.61	23.80	7.147e5	9.323e5	0.770	0.77	NO	192.62	192.62
13	43 Total Tetra-Furans	23.61	24.13	3.320e4	4.207e4	0.770	0.79	NO	8.8030	8.8030
14	43 Total Tetra-Furans	23.61	24.34	2.815e4	3.645e4	0.770	0.77	NO	7.5560	7.5560
15	43 Total Tetra-Furans	23.61	24.60	9.015e3	9.467e3	0.770	0.95	YES	1.9597	0.00000
16	43 Total Tetra-Furans	23.61	24.73	2.173e5	2.902e5	0.770	0.75	NO	59.356	59.356
17	8 2,3,7,8-TCDF	24.85	24.85	8.798e5	1.141e6	0.770	0.77	NO	236.31	236.31
18	43 Total Tetra-Furans	23.61	25.24	5.272e4	6.748e4	0.770	0.78	NO	14.059	14.059
19	43 Total Tetra-Furans	23.61	25.53	1.126e4	1.533e4	0.770	0.74	NO	3.1129	3.1129
20	43 Total Tetra-Furans	23.61	25.78	5.977e2	7.748e2	0.770	0.77	NO	0.16051	0.16051
21	43 Total Tetra-Furans	23.61	25.94	7.735e2	1.324e3	0.770	0.98	YES	0.20795	0.00000
22	43 Total Tetra-Furans	23.61	26.36	1.382e3	6.581e2	0.770	2.10	YES	0.13523	0.00000
23	43 Total Tetra-Furans	23.61	26.53	3.628e3	4.750e3	0.770	0.76	NO	0.97984	0.97984
24	43 Total Tetra-Furans	23.61	26.71	5.596e3	6.245e3	0.770	0.90	YES	1.2850	0.00000
25	43 Total Tetra-Furans	23.61	26.98	1.230e5	1.252e5	0.770	0.98	YES	25.913	0.00000





#	Name	Resp	RA	n/y	RF	wVol	Pred RT	RT	Pred R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
43	Total Tetra-Furans				0.9154	10.025	23.61		0.000		NO	744.7		0.181	773.4
44	1st Func. Penta-Furans				0.9594	10.025	27.09		0.000		NO	39.60		0.0506	39.60

#	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	8.913e3	1.184e4	0.770	0.75	NO	2.4272	2.4272
2	43 Total Tetra-Furans	23.61	20.03	1.696e4	2.139e4	0.770	0.79	NO	4.4844	4.4844
3	43 Total Tetra-Furans	23.61	20.60	9.342e4	1.213e5	0.770	0.77	NO	25.117	25.117
4	43 Total Tetra-Furans	23.61	21.13	4.925e4	6.259e4	0.770	0.79	NO	13.080	13.080
5	43 Total Tetra-Furans	23.61	21.51	2.076e5	2.735e5	0.770	0.76	NO	56.274	56.274
6	43 Total Tetra-Furans	23.61	21.98	6.364e4	8.321e4	0.770	0.76	NO	17.175	17.175
7	43 Total Tetra-Furans	23.61	22.13	1.195e4	1.504e4	0.770	0.79	NO	3.1568	3.1568
8	43 Total Tetra-Furans	23.61	22.32	3.990e4	5.259e4	0.770	0.76	NO	10.817	10.817
9	43 Total Tetra-Furans	23.61	22.79	6.534e3	9.240e3	0.770	0.71	NO	1.8448	1.8448
10	43 Total Tetra-Furans	23.61	22.94	7.572e3	1.026e4	0.770	0.74	NO	2.0852	2.0852
11	43 Total Tetra-Furans	23.61	23.24	3.827e5	4.975e5	0.770	0.77	NO	102.95	102.95
12	43 Total Tetra-Furans	23.61	23.61	7.011e5	9.098e5	0.770	0.77	NO	188.42	188.42
13	43 Total Tetra-Furans	23.61	24.13	2.779e4	3.425e4	0.770	0.81	NO	7.2560	7.2560
14	43 Total Tetra-Furans	23.61	24.34	2.617e4	3.404e4	0.770	0.77	NO	7.0416	7.0416
15	43 Total Tetra-Furans	23.61	24.60	6.791e3	7.378e3	0.770	0.92	YES	1.5274	0.00000
16	43 Total Tetra-Furans	23.61	24.73	2.106e5	2.814e5	0.770	0.75	NO	57.550	57.550
17	12.7.7.R.T.H.F	24.85	24.85	8.494e5	1.104e6	0.770	0.77	NO	278.48	278.48



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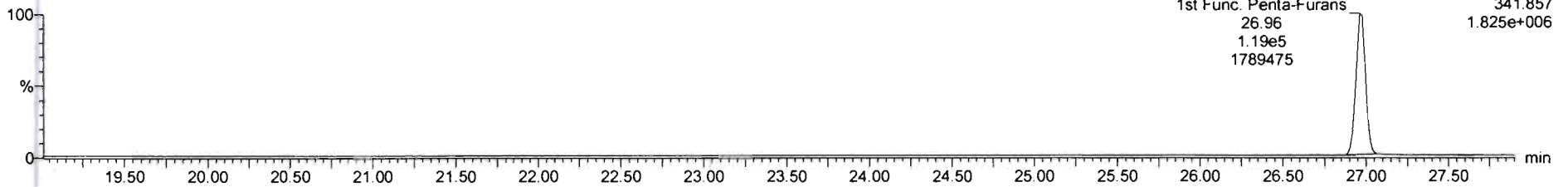
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1st Func. Penta-Furans

200307R1_8

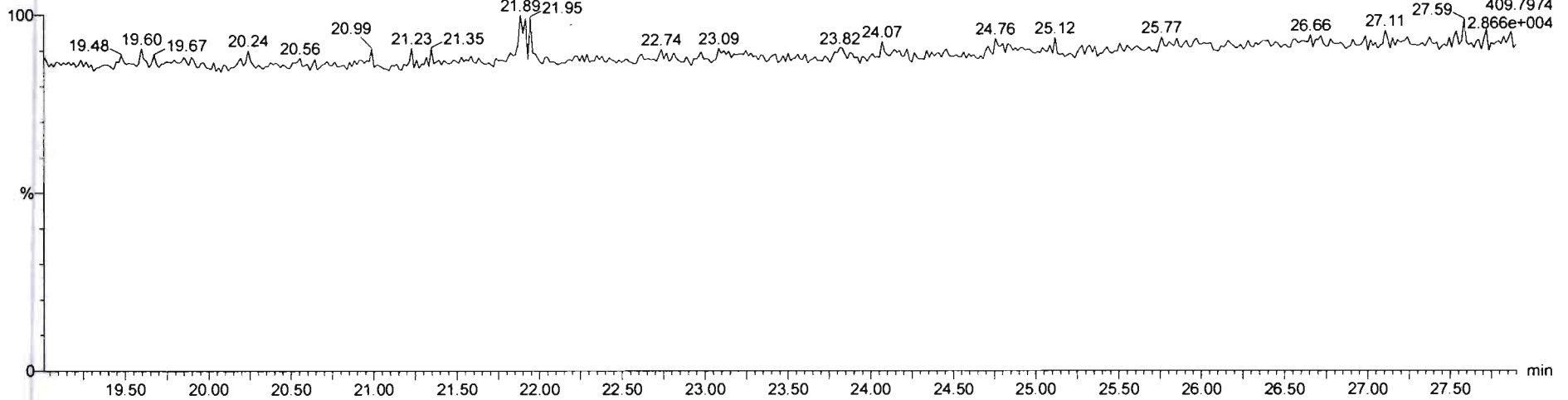


200307R1_8



DPE6

200307R1_8

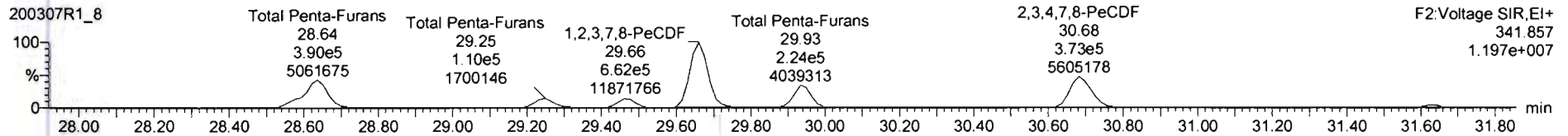
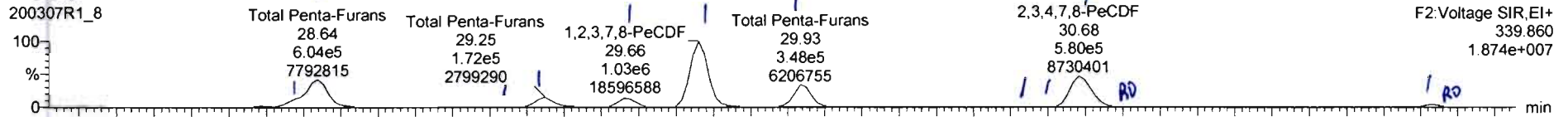


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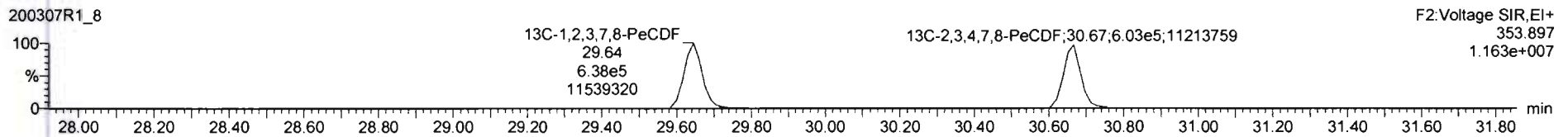
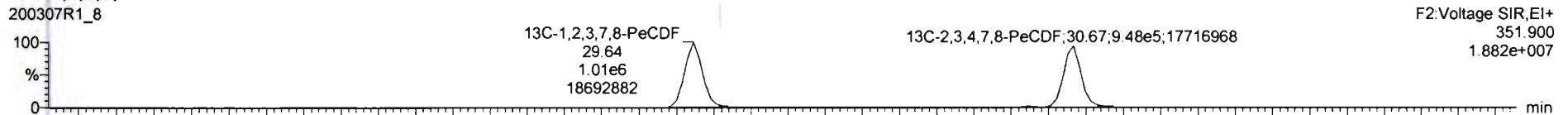
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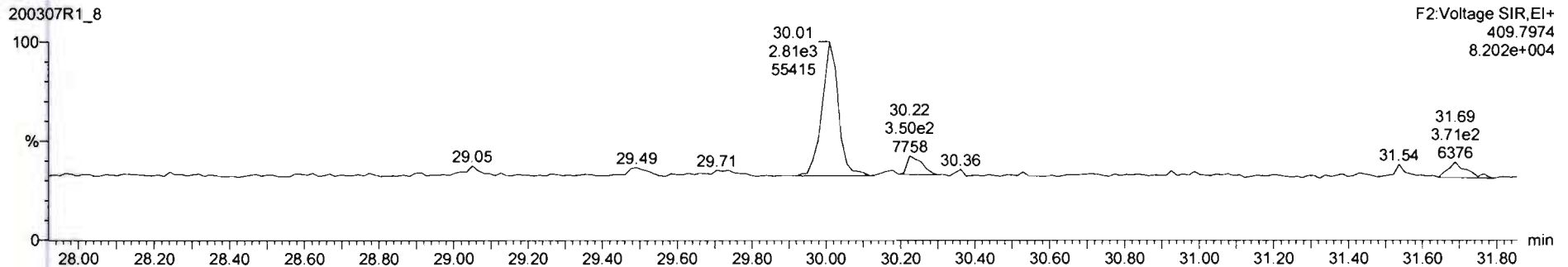
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13C-1,2,3,7,8-PeCDF

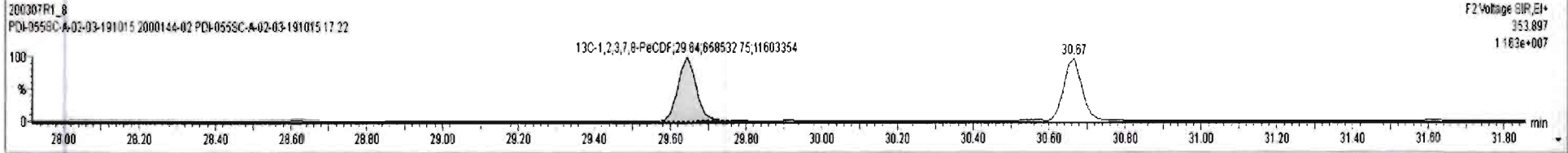
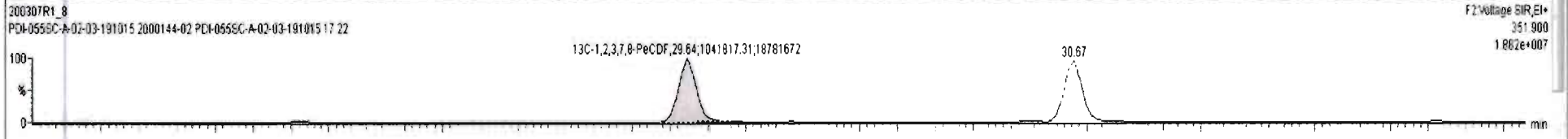
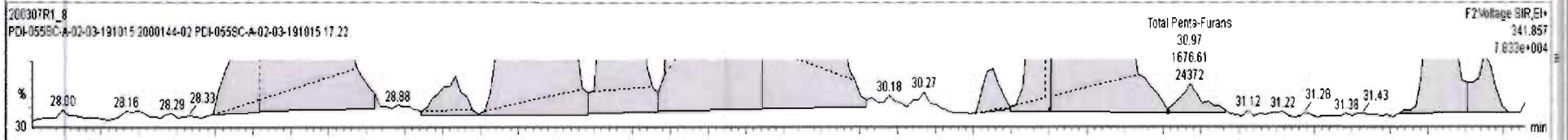
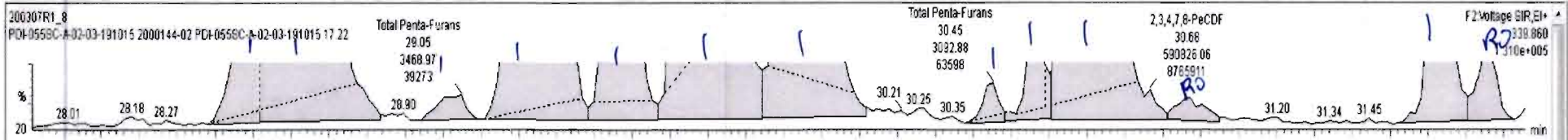


DPE2



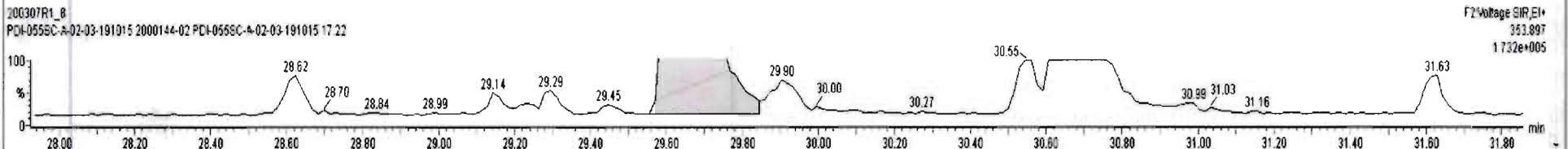
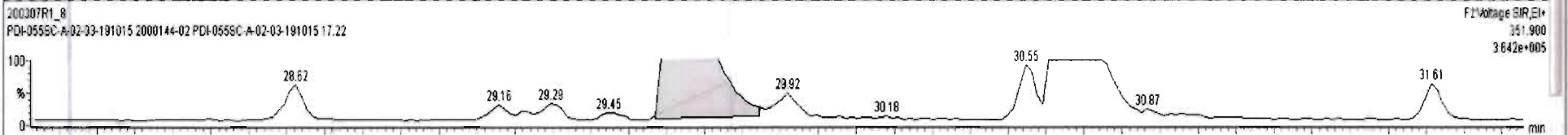
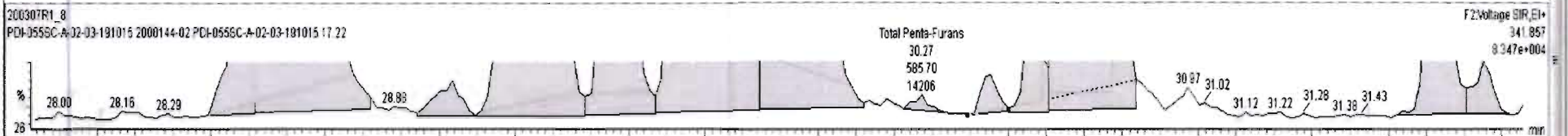
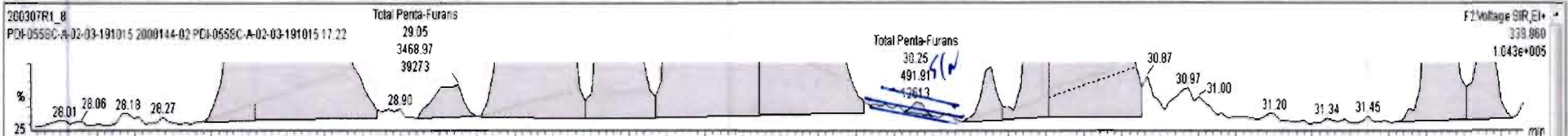
#	Name	Resp	RA	nly	RRF	WtWt	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc	%Rec	DL	EMPC
43	Total Tetra-Furans				0.9154	10.025	23.51		0.000		NO	767.2		0.191	796.7
44	1st Func. Penta-Furans				0.9594	10.025	27.09		0.000		NO	38.99		0.0505	38.99

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nly	EMPC	Conc.
1	45 Total Penta-Furans	29.27	28.49	2.130e4	1.309e4	1.550	1.63	NO	4.4020	4.4020
2	45 Total Penta-Furans	29.27	28.64	6.162e5	3.968e5	1.550	1.55	NO	129.59	129.59
3	45 Total Penta-Furans	29.27	29.05	3.469e3	2.457e3	1.550	1.41	NO	0.75807	0.75807
4	45 Total Penta-Furans	29.27	29.25	1.774e5	1.134e5	1.550	1.56	NO	37.193	37.193
5	45 Total Penta-Furans	29.27	29.46	1.435e5	9.197e4	1.550	1.56	NO	30.128	30.128
6	91 2,3,7,8-PeCDF	29.67	29.66	1.065e6	8.823e5	1.550	1.56	NO	213.69	213.69
7	45 Total Penta-Furans	29.27	29.93	3.640e5	2.335e5	1.550	1.58	NO	76.432	76.432
8	45 Total Penta-Furans	29.27	30.45	3.093e3	1.911e3	1.550	1.62	NO	0.64013	0.64013
9	45 Total Penta-Furans	29.27	30.56	8.902e3	5.335e3	1.550	1.67	NO	1.6212	1.6212
10	10 2,3,4,7,8-PeCDF	30.70	30.68	5.908e5	3.795e5	1.550	1.56	NO	124.40	124.40
11	45 Total Penta-Furans	29.27	30.97	3.135e3	1.677e3	1.550	1.97	YES	0.54692	0.00000
12	45 Total Penta-Furans	29.27	31.63	3.569e4	2.283e4	1.550	1.56	NO	7.4870	7.4870
13	45 Total Penta-Furans	29.27	31.75	7.165e3	2.754e3	1.550	2.60	YES	0.89526	0.00000



#	Name	Resp	RA	n/y	RF	wVol	Pred RT	RT	Pred R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
43	Total Tetra-Furans				0.9154	10.025	23.61		0.000		NO	767.2		0.191	756.7
44	1st Func. Penta-Furans				0.9594	10.025	27.09		0.000		NO	39.60		0.0506	39.60

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1	45 Total Penta-Furans	29.27	28.49	1.995e4	1.246e4	1.550	1.60	NO	4.2115	4.2115
2	45 Total Penta-Furans	29.27	28.64	6.037e5	3.901e5	1.550	1.55	NO	129.12	129.12
3	45 Total Penta-Furans	29.27	29.05	3.469e3	1.913e3	1.550	1.81	YES	0.63357	0.00000
4	45 Total Penta-Furans	29.27	29.25	1.723e5	1.097e5	1.550	1.57	NO	36.636	36.636
5	45 Total Penta-Furans	29.27	29.46	1.379e5	8.924e4	1.550	1.55	NO	29.384	29.384
6	9 1,2,3,7,8-PeCDF	29.67	29.66	1.003e6	6.623e5	1.550	1.55	NO	213.60	213.60
7	45 Total Penta-Furans	29.27	29.93	3.400e5	2.240e5	1.550	1.55	NO	74.315	74.315
8	45 Total Penta-Furans	29.27	30.25	4.919e2	5.857e2	1.550	0.84	YES	0.10513	0.00000
9	45 Total Penta-Furans	29.27	30.45	2.267e3	1.780e3	1.550	1.29	YES	0.48457	0.00000
10	45 Total Penta-Furans	29.27	30.56	6.158e3	3.922e3	1.550	1.57	NO	1.3096	1.3096
11	10 2,3,4,7,8-PeCDF	30.70	30.68	5.732e5	3.700e5	1.550	1.55	NO	120.93	120.93
12	45 Total Penta-Furans	29.27	31.63	3.589e4	2.283e4	1.550	1.56	NO	7.6033	7.6033
13	45 Total Penta-Furans	29.27	31.75	7.185e3	2.754e3	1.550	2.80	YES	0.91223	0.00000

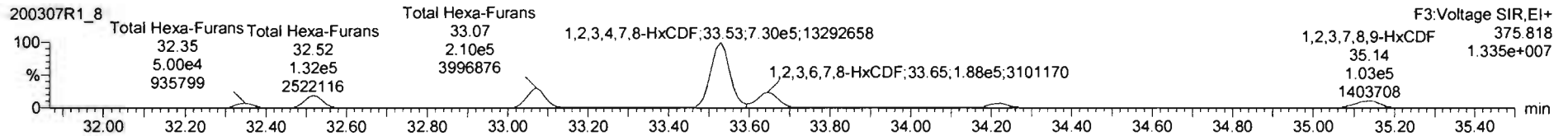
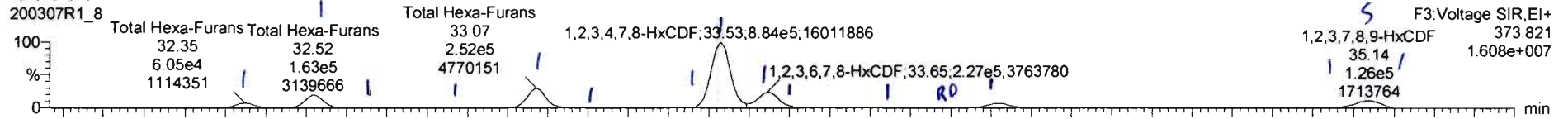


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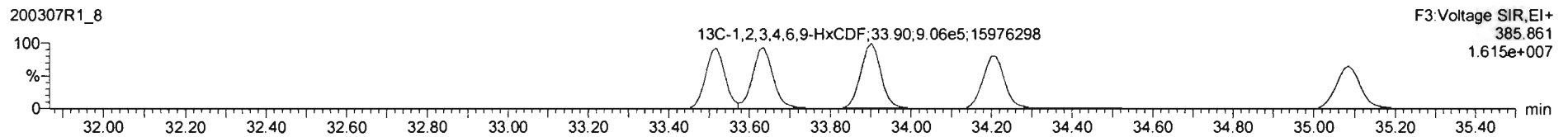
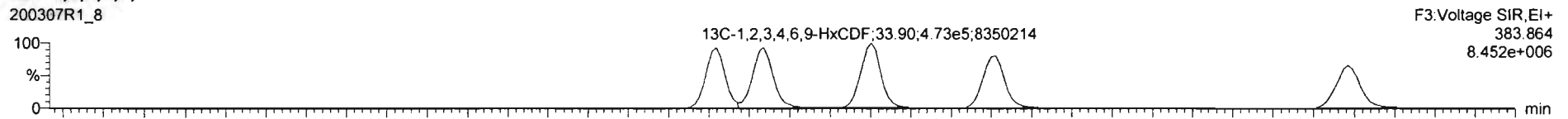
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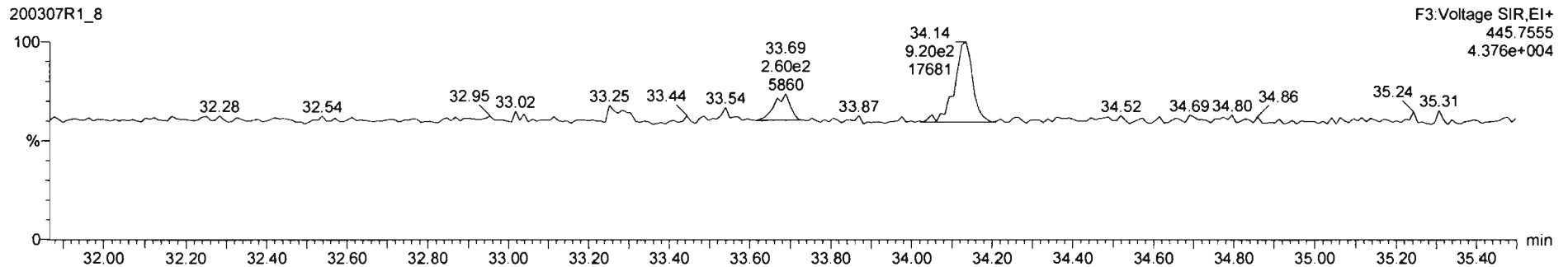
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13C-1,2,3,4,7,8-HxCDF

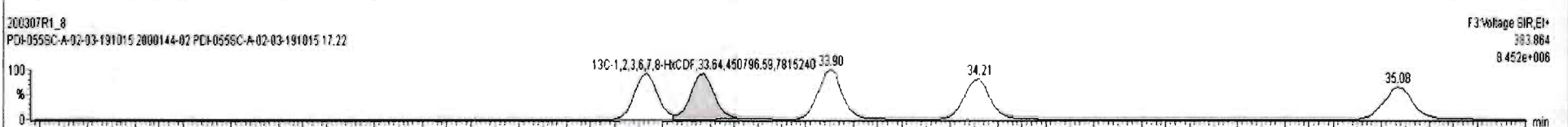
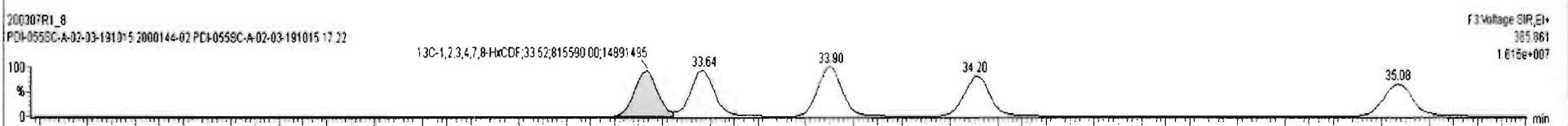
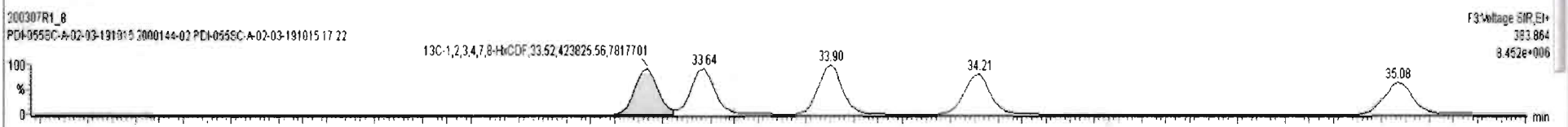
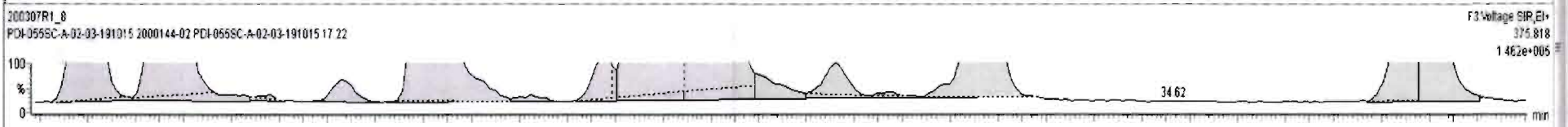
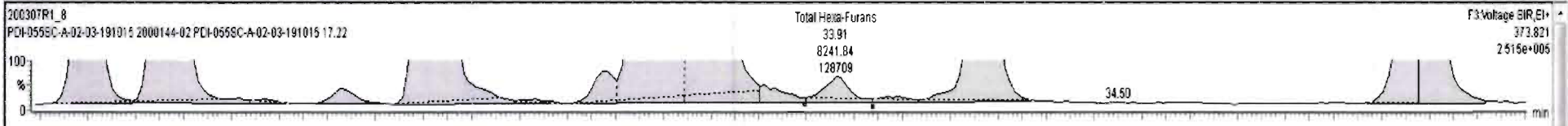


DPE3



#	Name	Resp	RA	nly	RRF	w/hol	Pred RT	RT	Pred.R.	RRT	RRT Fail	Conc	%Rec	DL	EMPC
46	Total Hexa-Furans				1.0620	10.025	33.56		0.000		NO	508.8		0.203	510.2
47	Total Hepta-Furans				1.0493	10.025	37.83		0.000		NO	344.9		0.331	345.5

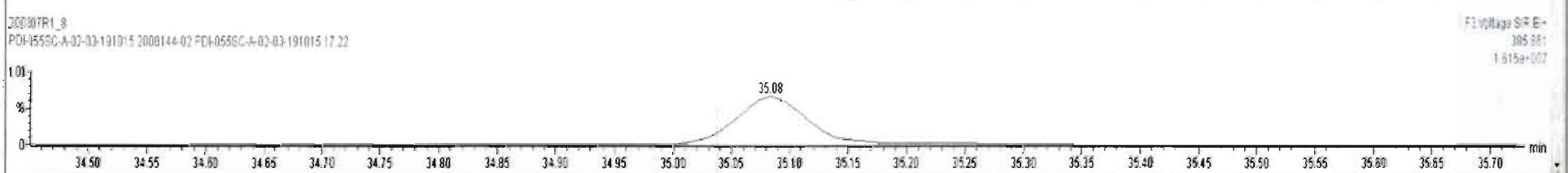
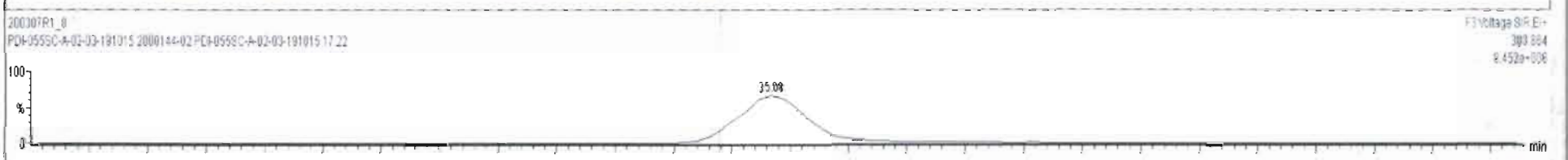
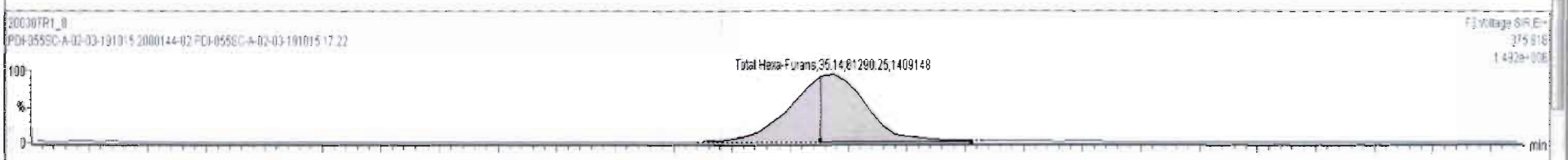
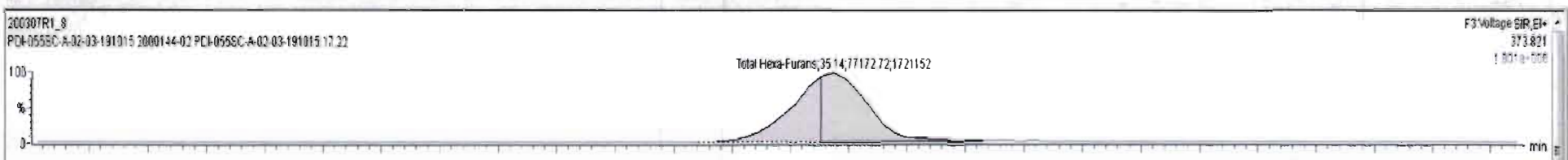
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nly	EMPC	Conc.
1	46 Total Hexa-Furans	33.56	32.35	6.123e4	5.089e4	1.240	1.20	NO	16.803	16.803
2	46 Total Hexa-Furans	33.56	32.52	1.670e5	1.366e5	1.240	1.22	NO	45.499	45.499
3	46 Total Hexa-Furans	33.56	32.72	1.075e3	9.141e2	1.240	1.32	NO	0.28304	0.28304
4	46 Total Hexa-Furans	33.56	32.88	4.237e3	3.665e3	1.240	1.16	NO	1.1842	1.1842
5	46 Total Hexa-Furans	33.56	33.07	2.562e5	2.109e5	1.240	1.21	NO	70.002	70.002
6	46 Total Hexa-Furans	33.56	33.28	1.356e3	9.616e2	1.240	1.41	NO	0.34728	0.34728
7	46 Total Hexa-Furans	33.56	33.42	8.097e3	7.006e3	1.240	1.16	NO	2.2633	2.2633
8	11 1,2,3,4,7,8-HxCDF	33.52	33.53	8.878e5	7.313e5	1.240	1.21	NO	251.07	251.07
9	12 1,2,3,6,7,8-HxCDF	33.65	33.65	2.346e5	1.925e5	1.240	1.22	NO	63.588	63.588
10	46 Total Hexa-Furans	33.56	33.76	4.968e3	4.541e3	1.240	1.09	NO	1.4250	1.4250
11	46 Total Hexa-Furans	33.56	33.91	8.242e3	5.204e3	1.240	1.33	NO	2.1649	2.1649
12	46 Total Hexa-Furans	33.56	34.02	1.882e3	1.066e3	1.240	1.73	YES	0.36453	0.06000
13	13 2,3,4,6,7,8-HxCDF	34.25	34.22	6.581e4	5.278e4	1.240	1.25	NO	17.847	17.847



200307R1_8-2001444-1-PCI-0555C-A-02-03-191015-17.22-PCI-0555C-A-02-03-191015

#	Name	Resp	RA	n/y	RF	wtVol	Pred RT	RT	Pred R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
46	Total Hexa-Furans				1.0520	10.025	33.56		0.000		NO	598.6		0.203	510.2
47	Total Hepta-Furans				1.0433	10.025	37.83		0.000		NO	344.9		0.331	345.5

#	Name	Pred RT	RT	n1 Resp	n2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	46 Total Hexa-Furans	33.56	32.35	6.123e4	5.089e4	1.240	1.20	NO	16.803	16.803
2	46 Total Hexa-Furans	33.56	32.52	1.670e5	1.366e5	1.240	1.22	NO	45.489	45.489
3	46 Total Hexa-Furans	33.56	32.72	1.075e3	8.141e2	1.240	1.32	NO	0.28304	0.28304
4	46 Total Hexa-Furans	33.56	32.88	4.237e3	3.665e3	1.240	1.16	NO	1.1842	1.1842
5	46 Total Hexa-Furans	33.56	33.07	2.562e5	2.106e5	1.240	1.21	NO	70.002	70.002
6	46 Total Hexa-Furans	33.56	33.28	1.366e3	9.616e2	1.240	1.41	NO	0.34728	0.34728
7	46 Total Hexa-Furans	33.56	33.42	8.097e3	7.006e3	1.240	1.16	NO	2.2633	2.2633
8	11 1,2,3,4,7,8-HxCDF	33.52	33.53	8.878e5	7.313e5	1.240	1.21	NO	251.07	251.07
9	12 1,2,3,6,7,8-HxCDF	33.65	33.65	2.346e5	1.925e5	1.240	1.22	NO	63.568	63.568
10	46 Total Hexa-Furans	33.56	33.76	4.988e3	4.541e3	1.240	1.09	NO	1.4260	1.4260
11	46 Total Hexa-Furans	33.56	33.91	8.242e3	6.804e3	1.240	1.33	NO	2.1649	2.1649
12	46 Total Hexa-Furans	33.56	34.02	1.882e3	1.086e3	1.240	1.73	YES	0.38453	0.00000
13	13 2,3,4,6,7,8-HxCDF	34.25	34.22	6.581e4	5.276e4	1.240	1.25	NO	17.847	17.847
14	14 1,2,3,7,8,9-HxCDF	35.08	35.13	5.060e4	4.333e4	1.240	1.17	NO	16.597	16.597
15	46 Total Hexa-Furans	33.56	35.14	7.717e4	6.129e4	1.240	1.26	NO	20.750	20.750



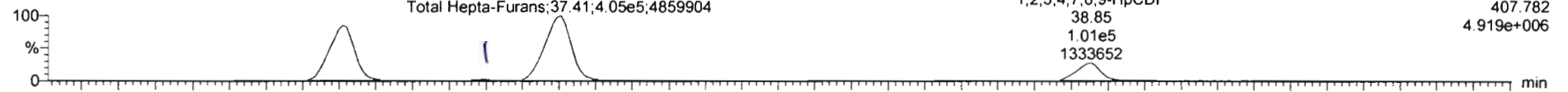
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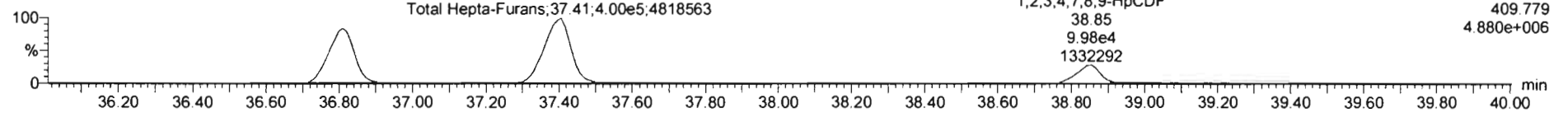
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1,2,3,4,6,7,8-HpCDF

200307R1_8

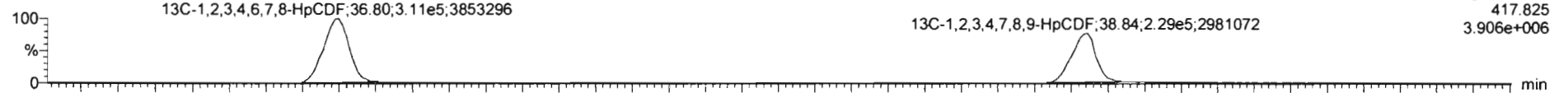


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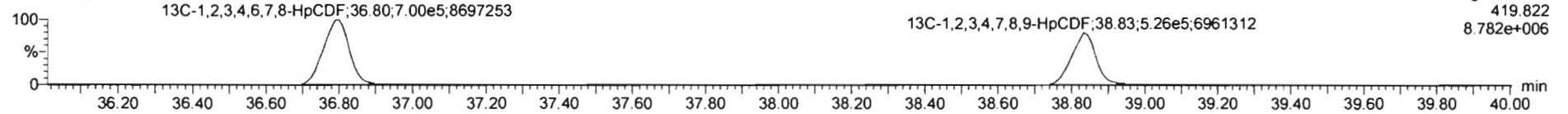


13C-1,2,3,4,6,7,8-HpCDF

200307R1_8

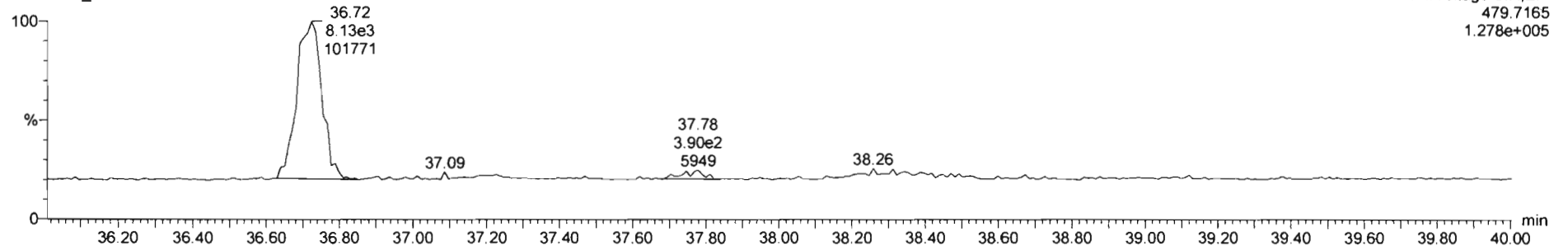


200307R1_8



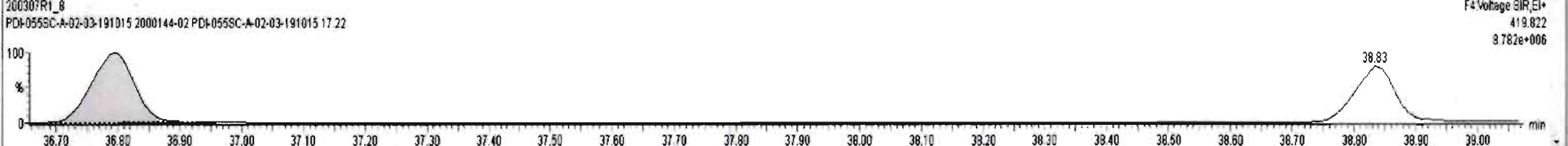
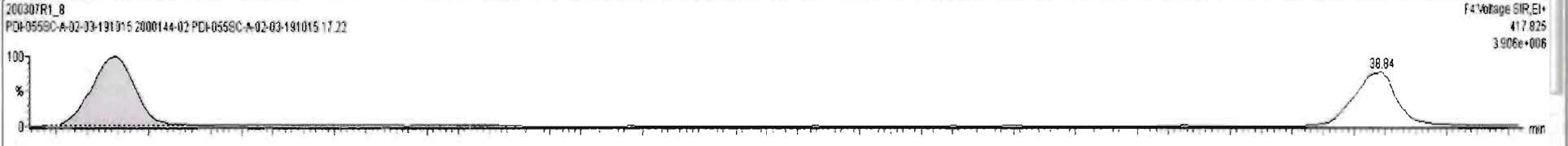
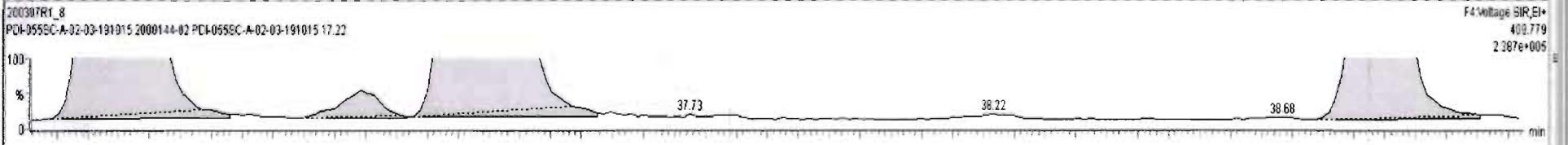
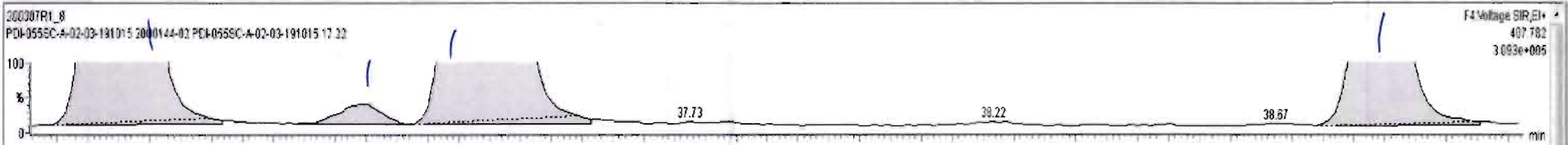
DPE4

200307R1_8



#	Name	Resp	RA	n/y	RRF	wt%cl	Pred RT	RT	Pred.R	RRT	RRT Fal	Conc	%Rec	DL	EMPC
46	Total Hexa-Furans				1.0620	10.025	33.56		0.000		NO	509.6		0.203	510.2
47	Total Hepta-Furans				1.0483	10.025	37.83		0.000		NO	344.8		0.330	344.8

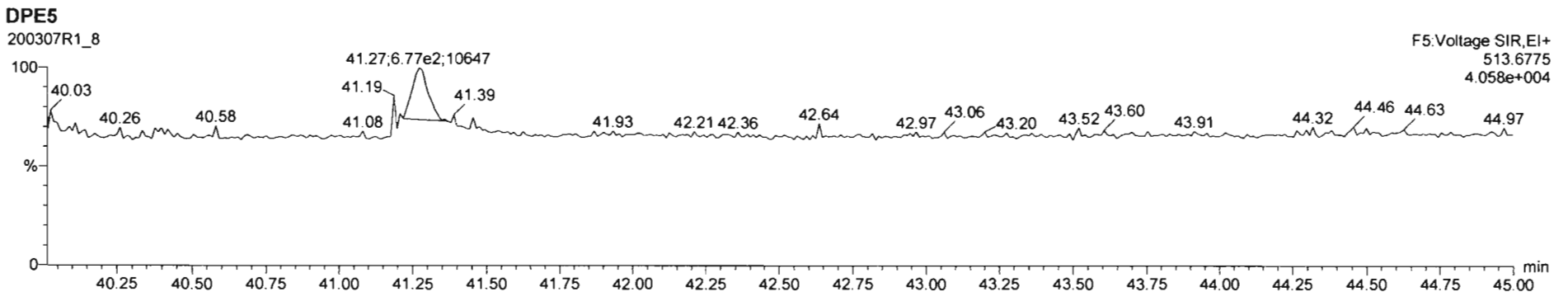
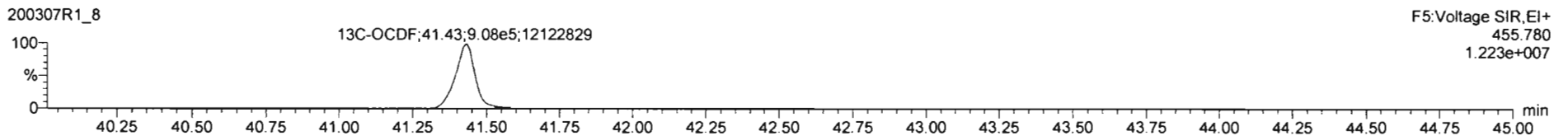
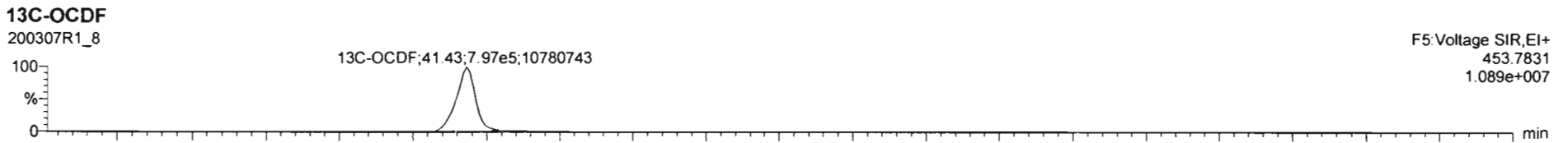
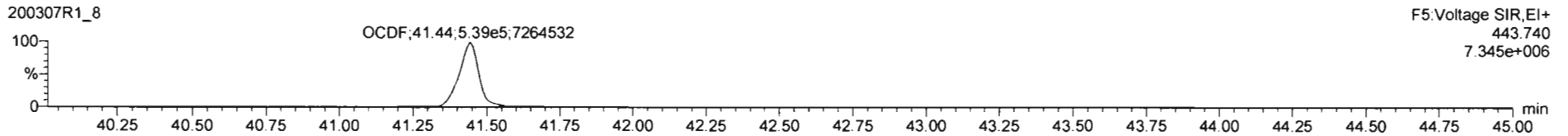
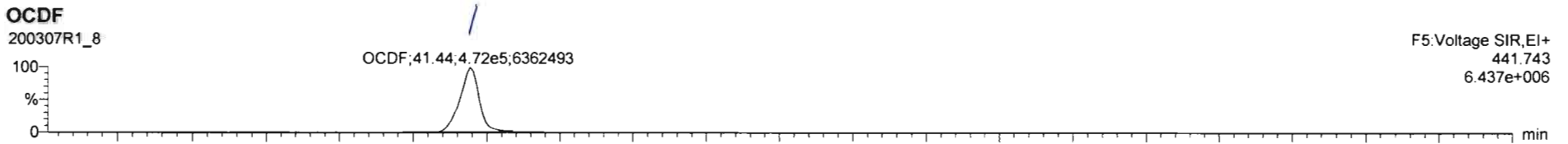
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1	1,2,3,4,6,7,8-HxCDF	36.84	36.81	3.352e5	3.304e5	1.040	1.01	NO	123.12	123.12
2	Total Hepta-Furans	37.83	37.19	6.488e3	6.781e3	1.040	0.96	NO	2.8317	2.8317
3	Total Hepta-Furans	37.83	37.41	4.095e5	4.062e5	1.040	1.01	NO	174.08	174.08
4	1,2,3,4,7,8,9-HoCDF	38.84	38.85	1.033e5	1.015e5	1.040	1.02	NO	44.741	44.741



Dataset: Untitled

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

Name: 200307R1_8, Date: 07-Mar-2020, Time: 15:15:55, ID: 2000144-02-PDI-055SC-A-02-03-191015 17.22, Description: PDI-055SC-A-02-03-191015



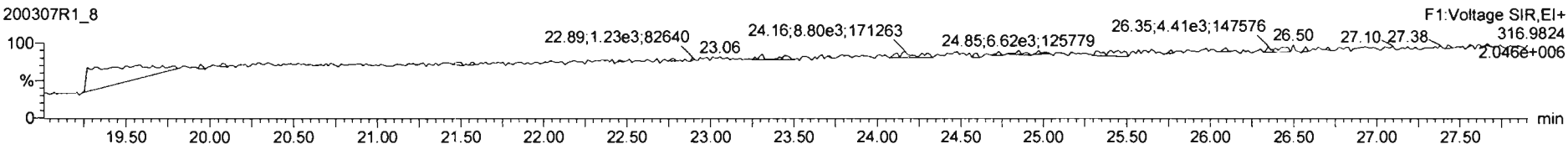
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Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time
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Name: 200307R1_8, Date: 07-Mar-2020, Time: 15:15:55, ID: 2000144-02 PDI-055SC-A-02-03-191015 17.22, Description: PDI-055SC-A-02-03-191015

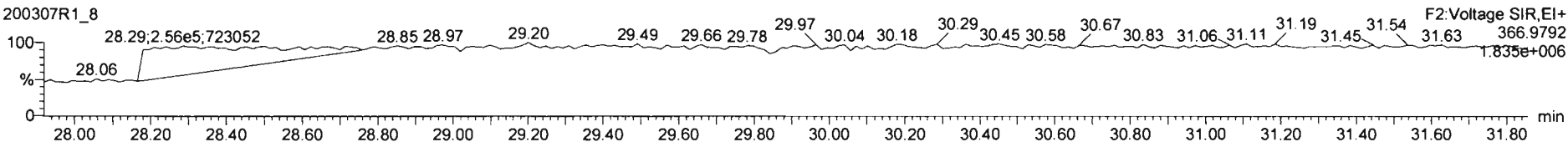
PFK1

200307R1_8



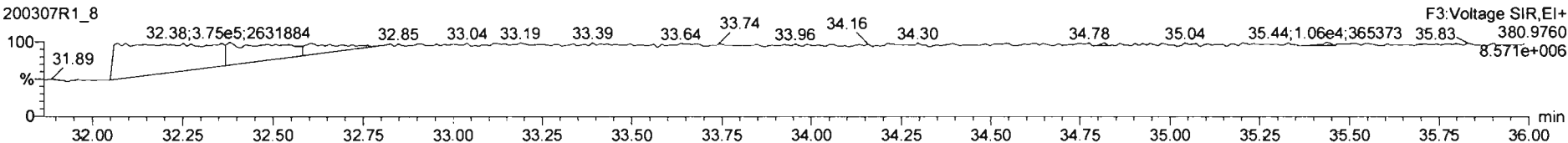
PFK2

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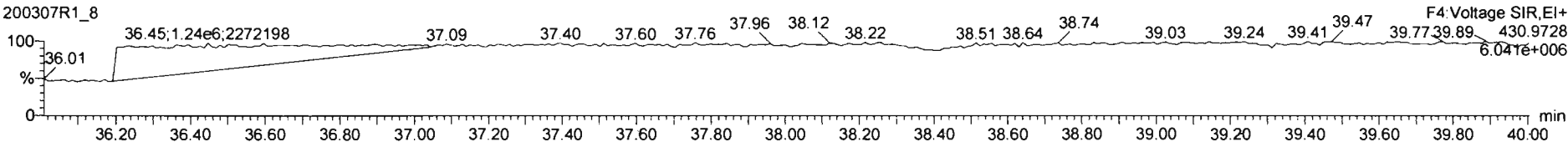
PFK3

200307R1_8



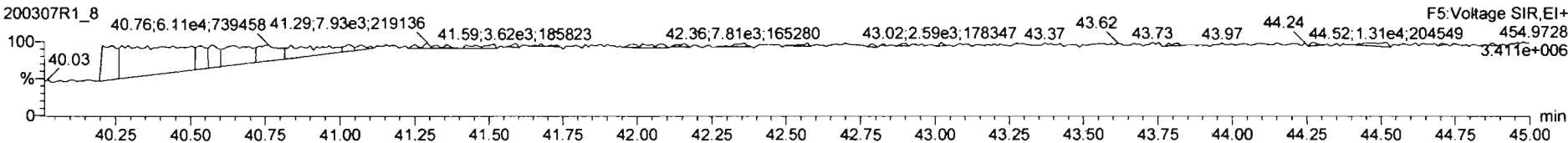
PFK4

200307R1_8



PFK5

200307R1_8



Dataset: U:\VG12.PRO\Results\200307R1\200307R1-9.qld

Last Altered: Thursday, March 12, 2020 11:18:48 Pacific Daylight Time

Printed: Friday, March 27, 2020 09:30:38 Pacific Daylight Time

HN 03/27/2020

*E see dilution

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

03/27/2020

Name: 200307R1_9, Date: 07-Mar-2020, Time: 16:03:27, ID: 2000144-03 PDI-055SC-A-03-04-191015 16.3, Description: PDI-055SC-A-03-04-191015

#	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	4.71e4	1.58e6	0.788	NO	10.03	25.83	25.81	1.00	1.00	NO	6.0424		0.094	6.0420
2	2 1,2,3,7,8-PeCDD	3.34e4	1.30e6	0.657	NO	10.03	30.99	30.99	1.00	1.00	NO	5.5464		0.105	5.5460
3	3 1,2,3,4,7,8-HxCDD	2.41e4	1.01e6	1.220	NO	10.03	34.37	34.38	1.00	1.00	NO	4.1929		0.268	4.1930
4	4 1,2,3,6,7,8-HxCDD	1.72e5	1.20e6	1.246	NO	10.03	34.47	34.48	1.00	1.00	NO	29.000		0.282	29.000
5	5 1,2,3,7,8,9-HxCDD	6.22e4	1.12e6	1.249	NO	10.03	34.74	34.75	1.00	1.00	NO	11.415		0.302	11.415
6	6 1,2,3,4,6,7,8-HpCDD	5.10e6	7.83e5	1.032	NO	10.03	38.21	38.22	1.00	1.00	NO	1291.2		1.127	1291.2
7	7 OCDD	1.44e7	5.01e5	0.890	NO	10.03	41.23	41.24	1.00	1.00	NO	10925 E		1.771	10925
8	8 2,3,7,8-TCDF	2.22e6	2.06e6	0.773	NO	10.03	24.85	24.85	1.00	1.00	NO	234.52 (203)		0.166	234.52
9	9 1,2,3,7,8-PeCDF	2.98e6	1.98e6	1.558	NO	10.03	29.67	29.66	1.00	1.00	NO	314.21		0.169	314.21
10	10 2,3,4,7,8-PeCDF	1.13e6	1.78e6	1.541	NO	10.03	30.68	30.68	1.00	1.00	NO	126.32		0.170	126.32
11	11 1,2,3,4,7,8-HxCDF	3.27e6	1.41e6	1.206	NO	10.03	33.51	33.52	1.00	1.00	NO	445.90		0.235	445.90
12	12 1,2,3,6,7,8-HxCDF	1.07e6	1.49e6	1.196	NO	10.03	33.64	33.64	1.00	1.00	NO	140.65		0.241	140.65
13	13 2,3,4,6,7,8-HxCDF	2.56e5	1.37e6	1.220	NO	10.03	34.23	34.21	1.00	1.00	NO	34.210		0.262	34.210
14	14 1,2,3,7,8,9-HxCDF	1.23e5	1.22e6	1.177	NO	10.03	35.07	35.11	1.00	1.00	NO	19.562		0.347	19.562
15	15 1,2,3,4,6,7,8-HpCDF	1.30e6	9.79e5	1.011	NO	10.03	36.81	36.80	1.00	1.00	NO	252.61		0.445	252.61
16	16 1,2,3,4,7,8,9-HpCDF	3.68e5	7.20e5	1.005	NO	10.03	38.82	38.83	1.00	1.00	NO	84.309		0.474	84.309
17	17 OCDF	1.30e6	9.27e5	0.872	NO	10.03	41.41	41.43	1.00	1.00	NO	590.04		0.466	590.04
18	18 13C-2,3,7,8-TCDD	1.58e6	1.50e6	0.794	NO	10.03	25.81	25.80	1.03	1.03	NO	177.95	89.2	0.146	
19	19 13C-1,2,3,7,8-PeCDD	1.30e6	1.50e6	0.642	NO	10.03	31.01	30.97	1.24	1.23	NO	201.42	101.0	0.202	
20	20 13C-1,2,3,4,7,8-HxCDD	1.01e6	1.61e6	1.266	NO	10.03	34.36	34.36	1.01	1.01	NO	166.88	83.7	0.305	
21	21 13C-1,2,3,6,7,8-HxCDD	1.20e6	1.61e6	1.273	NO	10.03	34.47	34.47	1.02	1.02	NO	160.97	80.7	0.248	
22	22 13C-1,2,3,7,8,9-HxCDD	1.12e6	1.61e6	1.261	NO	10.03	34.73	34.73	1.02	1.02	NO	168.30	84.4	0.277	
23	23 13C-1,2,3,4,6,7,8-HpCDD	7.83e5	1.61e6	1.043	NO	10.03	38.18	38.19	1.13	1.13	NO	162.57	81.5	0.303	
24	24 13C-OCDD	5.01e5	1.61e6	0.890	NO	10.03	41.32	41.23	1.22	1.22	NO	108.81	27.3	0.220	*
25	25 13C-2,3,7,8-TCDF	2.06e6	2.30e6	0.790	NO	10.03	24.83	24.82	0.99	0.99	NO	164.15	82.3	0.230	
26	26 13C-1,2,3,7,8-PeCDF	1.98e6	2.30e6	1.580	NO	10.03	29.68	29.65	1.18	1.18	NO	195.48	98.0	0.278	
27	27 13C-2,3,4,7,8-PeCDF	1.78e6	2.30e6	1.598	NO	10.03	30.69	30.65	1.22	1.22	NO	183.13	91.8	0.289	
28	28 13C-1,2,3,4,7,8-HxCDF	1.41e6	1.61e6	0.520	NO	10.03	33.51	33.51	0.99	0.99	NO	175.20	87.8	0.279	
29	29 13C-1,2,3,6,7,8-HxCDF	1.49e6	1.61e6	0.518	NO	10.03	33.62	33.63	0.99	0.99	NO	166.01	83.2	0.250	
30	30 13C-2,3,4,6,7,8-HxCDF	1.37e6	1.61e6	0.521	NO	10.03	34.20	34.20	1.01	1.01	NO	164.05	82.2	0.270	

Dataset: U:\VG12.PRO\Results\200307R1\200307R1-9.qld

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Name: 200307R1_9, Date: 07-Mar-2020, Time: 16:03:27, ID: 2000144-03 PDI-055SC-A-03-04-191015 16.3, Description: PDI-055SC-A-03-04-191015

#	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	1.22e6	1.61e6	0.518	NO	10.03	35.07	35.07	1.03	1.03	NO	173.89	87.2	0.320	
32	32 13C-1,2,3,4,6,7,8-HpCDF	9.79e5	1.61e6	0.441	NO	10.03	36.78	36.78	1.09	1.09	NO	157.70	79.1	0.346	
33	33 13C-1,2,3,4,7,8,9-HpCDF	7.20e5	1.61e6	0.440	NO	10.03	38.86	38.82	1.15	1.15	NO	172.16	86.3	0.513	
34	34 13C-OCDF	9.27e5	1.61e6	0.882	NO	10.03	41.50	41.41	1.22	1.22	NO	165.31	41.4	0.206	
35	35 37Cl-2,3,7,8-TCDD	5.98e5	1.50e6			10.03	25.82	25.81	1.03	1.03	NO	67.936	85.1	0.070	
36	36 13C-1,2,3,4-TCDD	1.50e6	1.50e6	0.799	NO	10.03	25.05	25.09	1.00	1.00	NO	199.48	100.0	0.173	
37	37 13C-1,2,3,4-TCDF	2.30e6	2.30e6	0.799	NO	10.03	23.19	23.24	1.00	1.00	NO	199.48	100.0	0.250	
38	38 13C-1,2,3,4,6,9-HxCDF	1.61e6	1.61e6	0.525	NO	10.03	33.88	33.89	1.00	1.00	NO	199.48	100.0	0.279	
39	39 Total Tetra-Dioxins		1.58e6			10.03	24.62		0.00		NO	36.372		0.094	36.984
40	40 Total Penta-Dioxins		1.30e6			10.03	29.96		0.00		NO	43.794		0.105	43.794
41	41 Total Hexa-Dioxins		0.00e0			10.03	33.63		0.00		NO	417.71		0.295	417.71
42	42 Total Hepta-Dioxins		7.83e5			10.03	37.64		0.00		NO	3369.1		1.127	3369.1
43	43 Total Tetra-Furans		2.06e6			10.03	23.61		0.00		NO	771.56		0.166	799.12 P
44	44 1st Func. Penta-Furans		0.00e0			10.03	27.09		0.00		NO	64.961		0.042	64.961
45	45 Total Penta-Furans		0.00e0			10.03	29.27		0.00		NO	894.27		0.173	897.43
46	46 Total Hexa-Furans		0.00e0			10.03	33.56		0.00		NO	923.53		0.256	927.03
47	47 Total Hepta-Furans		0.00e0			10.03	37.83		0.00		NO	798.34		0.488	798.34

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200307R1\200307R1-9.qld

Last Altered: Thursday, March 12, 2020 11:18:48 Pacific Daylight Time

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

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

Name: 200307R1_9, Date: 07-Mar-2020, Time: 16:03:27

Tetra-Dioxins

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	39 Total Tetra-Dioxins	26.15	0.791	NO	3.54e3	6.99e5	1.03	1.03
2	1 2,3,7,8-TCDD	25.81	0.788	NO	2.07e4	6.99e5	6.04	6.04
3	39 Total Tetra-Dioxins	25.53	0.766	NO	1.67e4	6.99e5	4.96	4.96
4	39 Total Tetra-Dioxins	25.24	0.965	YES	7.14e2	6.99e5	0.000	0.168
5	39 Total Tetra-Dioxins	25.08	0.800	NO	1.46e3	6.99e5	0.422	0.422
6	39 Total Tetra-Dioxins	24.69	0.794	NO	1.89e3	6.99e5	0.548	0.548
7	39 Total Tetra-Dioxins	24.49	0.904	YES	9.99e2	6.99e5	0.000	0.251
8	39 Total Tetra-Dioxins	24.19	0.776	NO	1.89e3	6.99e5	0.555	0.555
9	39 Total Tetra-Dioxins	23.95	0.775	NO	7.59e3	6.99e5	2.23	2.23
10	39 Total Tetra-Dioxins	23.71	0.778	NO	5.99e3	6.99e5	1.76	1.76
11	39 Total Tetra-Dioxins	23.43	0.748	NO	1.31e3	6.99e5	0.394	0.394
12	39 Total Tetra-Dioxins	22.46	0.817	NO	2.18e3	6.99e5	0.622	0.622
13	39 Total Tetra-Dioxins	21.96	0.769	NO	9.90e3	6.99e5	2.92	2.92
14	39 Total Tetra-Dioxins	21.56	0.785	NO	5.10e4	6.99e5	14.9	14.9
15	39 Total Tetra-Dioxins	26.83	0.992	YES	8.39e2	6.99e5	0.000	0.192

Penta-Dioxins

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	40 Total Penta-Dioxins	29.98	0.585	NO	5.22e3	5.10e5	2.35	2.35
2	40 Total Penta-Dioxins	29.89	0.608	NO	6.69e3	5.10e5	2.94	2.94
3	40 Total Penta-Dioxins	29.72	0.685	NO	2.18e4	5.10e5	8.90	8.90
4	40 Total Penta-Dioxins	29.19	0.595	NO	6.15e3	5.10e5	2.74	2.74
5	40 Total Penta-Dioxins	28.70	0.610	NO	3.31e4	5.10e5	14.5	14.5
6	40 Total Penta-Dioxins	31.38	0.676	NO	2.62e3	5.10e5	1.08	1.08
7	2 1,2,3,7,8-PeCDD	30.99	0.657	NO	1.32e4	5.10e5	5.55	5.55
8	40 Total Penta-Dioxins	30.55	0.626	NO	3.49e3	5.10e5	1.50	1.50
9	40 Total Penta-Dioxins	30.21	0.646	NO	1.01e4	5.10e5	4.27	4.26

Dataset: U:\VG12.PRO\Results\200307R1\200307R1-9.qld

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Name: 200307R1_9, Date: 07-Mar-2020, Time: 16:03:27

Hexa-Dioxins

	# Name	RT	RA	y/n	Area	iS Area	Conc.	EMPC
1	5 1,2,3,7,8,9-HxCDD	34.75	1.249	NO	3.46e4	6.27e5	11.4	11.4
2	41 Total Hexa-Dioxins	34.66	1.298	NO	1.97e4	6.22e5	6.35	6.35
3	4 1,2,3,6,7,8-HxCDD	34.48	1.246	NO	9.52e4	6.72e5	29.0	29.0
4	3 1,2,3,4,7,8-HxCDD	34.38	1.220	NO	1.33e4	5.66e5	4.19	4.19
5	41 Total Hexa-Dioxins	33.82	1.074	NO	2.29e4	6.22e5	8.05	8.05
6	41 Total Hexa-Dioxins	33.71	1.252	NO	4.40e5	6.22e5	144	144
7	41 Total Hexa-Dioxins	33.46	1.232	NO	6.10e4	6.22e5	20.1	20.1
8	41 Total Hexa-Dioxins	32.90	1.243	NO	5.92e5	6.22e5	194	194

Hepta-Dioxins

	# Name	RT	RA	y/n	Area	iS Area	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	38.22	1.032	NO	2.59e6	4.00e5	1290	1290
2	42 Total Hepta-Dioxins	37.18	1.034	NO	4.17e6	4.00e5	2080	2080

Dataset: U:\VG12.PRO\Results\200307R1\200307R1-9.qld

Last Altered: Thursday, March 12, 2020 11:18:48 Pacific Daylight Time
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Name: 200307R1_9, Date: 07-Mar-2020, Time: 16:03:27

Tetra-Furans

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	43 Total Tetra-Furans	22.95	0.700	NO	7.15e3	9.10e5	1.84	1.84
2	43 Total Tetra-Furans	22.82	0.723	NO	7.09e3	9.10e5	1.79	1.78
3	43 Total Tetra-Furans	22.34	0.777	NO	4.08e4	9.10e5	9.87	9.87
4	43 Total Tetra-Furans	22.14	0.774	NO	8.46e3	9.10e5	2.05	2.05
5	43 Total Tetra-Furans	21.99	0.773	NO	7.93e4	9.10e5	19.2	19.2
6	43 Total Tetra-Furans	21.53	0.775	NO	2.30e5	9.10e5	55.8	55.8
7	43 Total Tetra-Furans	21.13	0.768	NO	4.77e4	9.10e5	11.6	11.6
8	43 Total Tetra-Furans	20.62	0.764	NO	1.26e5	9.10e5	30.8	30.8
9	43 Total Tetra-Furans	20.03	0.788	NO	1.75e4	9.10e5	4.19	4.19
10	43 Total Tetra-Furans	19.54	0.764	NO	8.51e3	9.10e5	2.08	2.08
11	43 Total Tetra-Furans	26.98	0.964	YES	1.42e5	9.10e5	0.000	27.6
12	43 Total Tetra-Furans	26.71	0.787	NO	1.74e4	9.10e5	4.18	4.18
13	43 Total Tetra-Furans	26.53	0.768	NO	1.06e4	9.10e5	2.58	2.58
14	43 Total Tetra-Furans	25.94	0.808	NO	2.22e3	9.10e5	0.525	0.525
15	43 Total Tetra-Furans	25.53	0.764	NO	9.14e3	9.10e5	2.23	2.23
16	43 Total Tetra-Furans	25.24	0.778	NO	5.21e4	9.10e5	12.6	12.6
17	8 2,3,7,8-TCDF	24.85	0.773	NO	9.67e5	9.10e5	235	235
18	43 Total Tetra-Furans	24.73	0.757	NO	2.25e5	9.10e5	55.3	55.3
19	43 Total Tetra-Furans	24.61	0.757	NO	8.31e3	9.10e5	2.04	2.04
20	43 Total Tetra-Furans	24.36	0.778	NO	2.37e4	9.10e5	5.73	5.73
21	43 Total Tetra-Furans	24.13	0.817	NO	3.17e4	9.10e5	7.45	7.45
22	43 Total Tetra-Furans	23.82	0.773	NO	8.60e5	9.10e5	208	208
23	43 Total Tetra-Furans	23.25	0.763	NO	3.96e5	9.10e5	96.8	96.8

Penta-Furans function 1

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	44 1st Func. Penta-Furans	26.98	1.569	NO	3.58e5	1.15e6	65.0	65.0

Dataset: U:\VG12.PRO\Results\200307R1\200307R1-9.qld

Last Altered: Thursday, March 12, 2020 11:18:48 Pacific Daylight Time

Printed: Friday, March 27, 2020 09:30:38 Pacific Daylight Time

Name: 200307R1_9, Date: 07-Mar-2020, Time: 16:03:27

Penta-Furans

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	45 Total Penta-Furans	28.49	1.485	NO	3.12e4	1.15e6	5.77	5.77
2	45 Total Penta-Furans	31.63	1.667	NO	5.72e4	1.15e6	10.1	10.1
3	45 Total Penta-Furans	30.96	1.740	NO	1.86e3	1.15e6	0.325	0.325
4	10 2,3,4,7,8-PeCDF	30.68	1.541	NO	6.86e5	1.10e6	126	126
5	45 Total Penta-Furans	30.56	1.807	YES	1.27e4	1.15e6	0.000	1.99
6	45 Total Penta-Furans	30.44	1.829	YES	4.03e3	1.15e6	0.000	0.622
7	45 Total Penta-Furans	29.95	1.563	NO	6.01e5	1.15e6	109	109
8	9 1,2,3,7,8-PeCDF	29.66	1.558	NO	1.82e6	1.21e6	314	314
9	45 Total Penta-Furans	29.46	1.531	NO	2.18e5	1.15e6	39.8	39.8
10	45 Total Penta-Furans	29.25	1.566	NO	2.71e5	1.15e6	49.2	49.2
11	45 Total Penta-Furans	29.02	1.212	YES	3.02e3	1.15e6	0.000	0.551
12	45 Total Penta-Furans	28.64	1.552	NO	1.04e6	1.15e6	189	189
13	45 Total Penta-Furans	30.70	1.611	NO	2.83e5	1.15e6	50.8	50.8

Hexa-Furans

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	46 Total Hexa-Furans	32.87	1.255	NO	8.10e3	4.70e5	1.94	1.94
2	46 Total Hexa-Furans	32.54	1.219	NO	3.79e5	4.70e5	91.7	91.7
3	46 Total Hexa-Furans	32.35	1.216	NO	1.29e5	4.70e5	31.2	31.2
4	14 1,2,3,7,8,9-HxCDF	35.11	1.177	NO	6.66e4	4.17e5	19.6	19.6
5	13 2,3,4,6,7,8-HxCDF	34.21	1.220	NO	1.41e5	4.69e5	34.2	34.2
6	46 Total Hexa-Furans	34.01	0.935	YES	2.27e3	4.70e5	0.000	0.546
7	46 Total Hexa-Furans	33.90	0.932	YES	1.23e4	4.70e5	0.000	2.95
8	12 1,2,3,6,7,8-HxCDF	33.64	1.196	NO	5.81e5	5.10e5	141	141
9	11 1,2,3,4,7,8-HxCDF	33.52	1.206	NO	1.79e6	4.83e5	446	446
10	46 Total Hexa-Furans	33.42	1.128	NO	1.80e4	4.70e5	4.50	4.50
11	46 Total Hexa-Furans	33.07	1.206	NO	4.76e5	4.70e5	116	116
12	46 Total Hexa-Furans	35.13	1.251	NO	1.59e5	4.70e5	38.1	38.1

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200307R1\200307R1-9.qld

Last Altered: Thursday, March 12, 2020 11:18:48 Pacific Daylight Time

Printed: Friday, March 27, 2020 09:30:38 Pacific Daylight Time

Name: 200307R1_9, Date: 07-Mar-2020, Time: 16:03:27

Hepta-Furans

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	16 1,2,3,4,7,8,9-HpCDF	38.83	1.005	NO	1.85e5	2.20e5	84.3	84.3
2	47 Total Hepta-Furans	37.40	1.017	NO	1.03e6	2.60e5	456	456
3	47 Total Hepta-Furans	37.18	1.037	NO	1.30e4	2.60e5	5.71	5.71
4	15 1,2,3,4,6,7,8-HpCDF	36.80	1.011	NO	6.53e5	3.00e5	253	253

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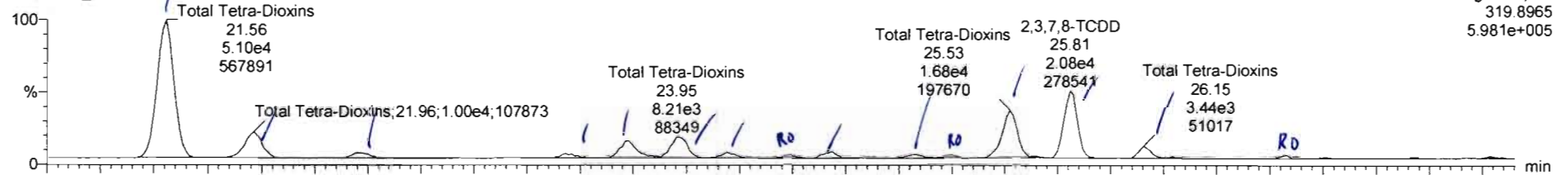
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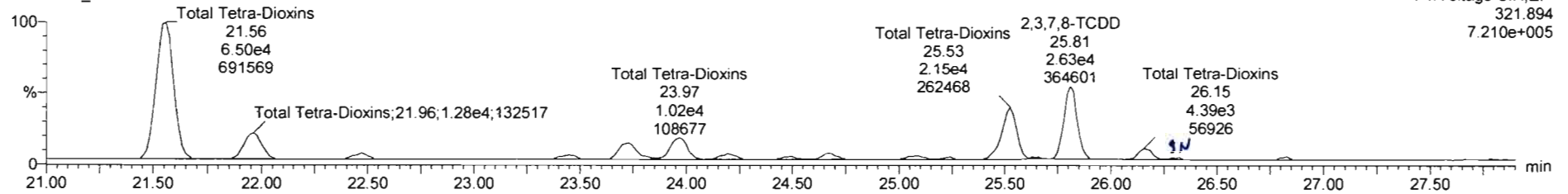
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2,3,7,8-TCDD

200307R1_9

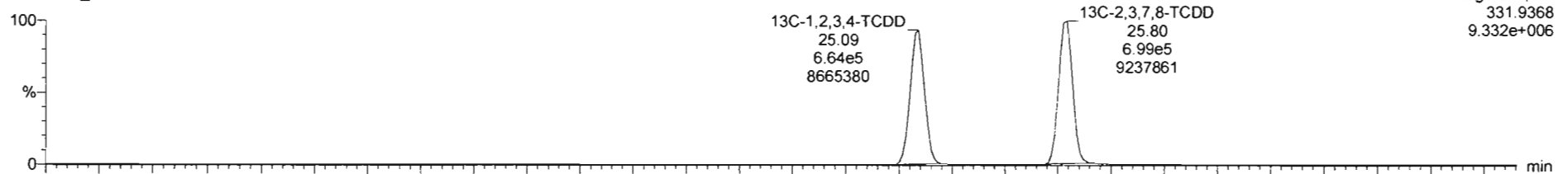


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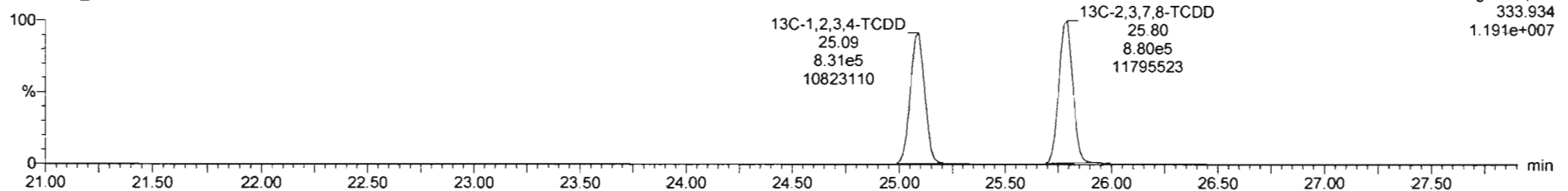


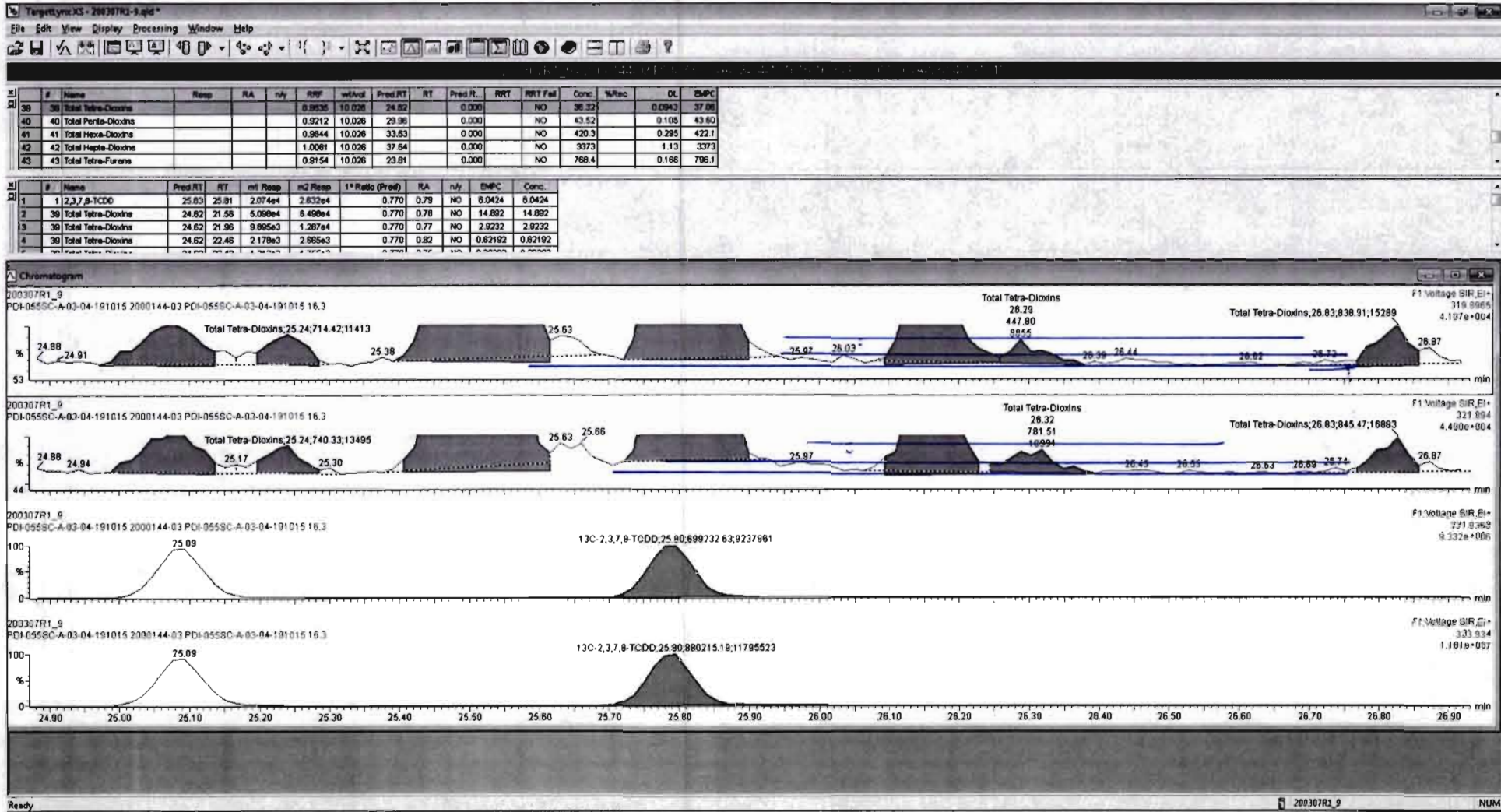
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200307R1_9



200307R1_9

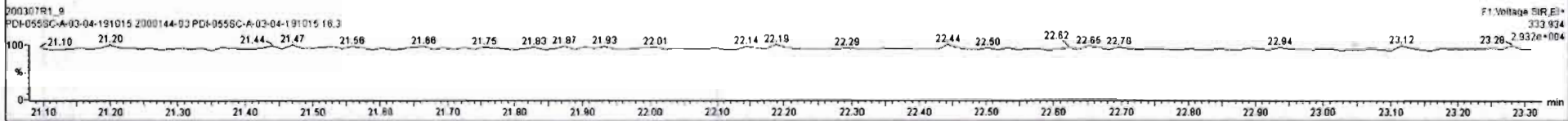
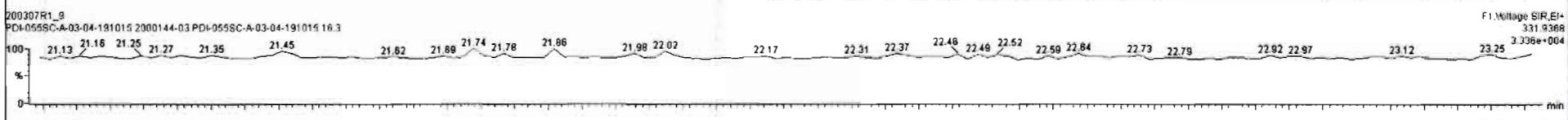
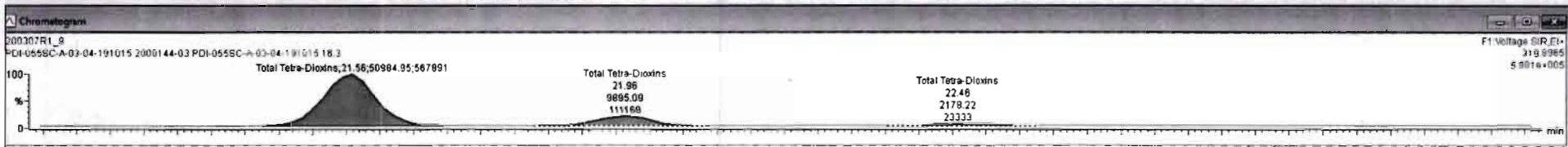




200307R1_9 - 2000144-03 PDI-055SC-A-03-04-191015 10.3 FID-055SC-A-03-04-191015

#	Name	Resp	RA	n/y	RRP	wtVol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9835	10.026	24.82		0.000		NO	36.37		0.0943	36.88
40	Total Penta-Dioxins				0.9212	10.026	29.96		0.000		NO	43.52		0.105	43.60
41	Total Hexa-Dioxins				0.9844	10.026	33.83		0.000		NO	420.3		0.285	422.1
42	Total Hepta-Dioxins				1.0061	10.026	37.64		0.000		NO	3373		1.13	3373
43	Total Tetra-Furans				0.9154	10.026	23.81		0.000		NO	768.4		0.166	796.1

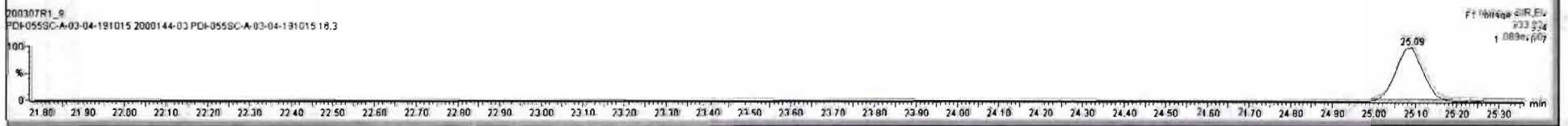
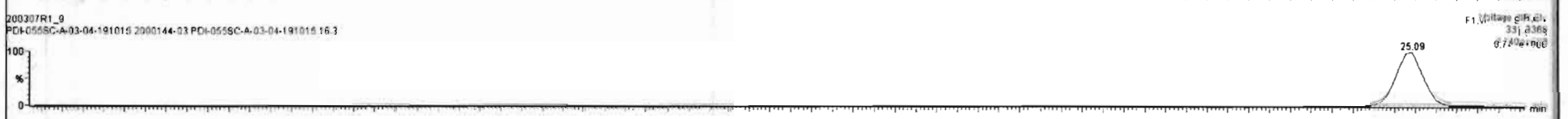
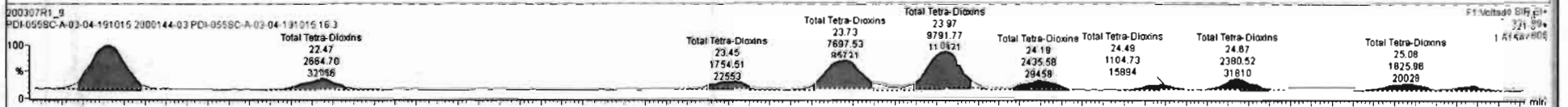
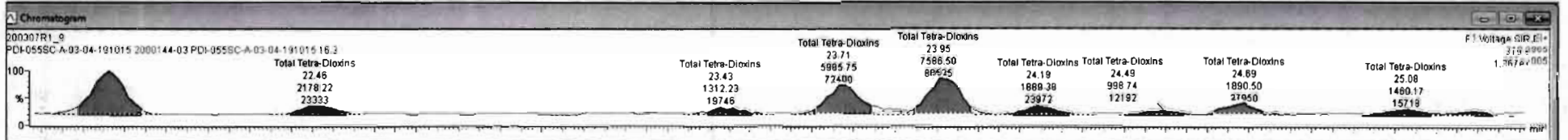
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1*Ratio (Pred)	RA	n/y	EMPC	Conc.
1	2,3,7,8-TCDD	25.83	25.81	2.074e4	2.632e4	0.770	0.79	NO	6.0424	6.0424
2	Total Tetra-Dioxins	24.62	21.56	5.069e4	6.498e4	0.770	0.78	NO	14.892	14.892
3	Total Tetra-Dioxins	24.62	21.96	9.895e3	1.287e4	0.770	0.77	NO	2.9232	2.9232
4	Total Tetra-Dioxins	24.62	22.46	2.178e3	2.865e3	0.770	0.82	NO	0.62192	0.62192



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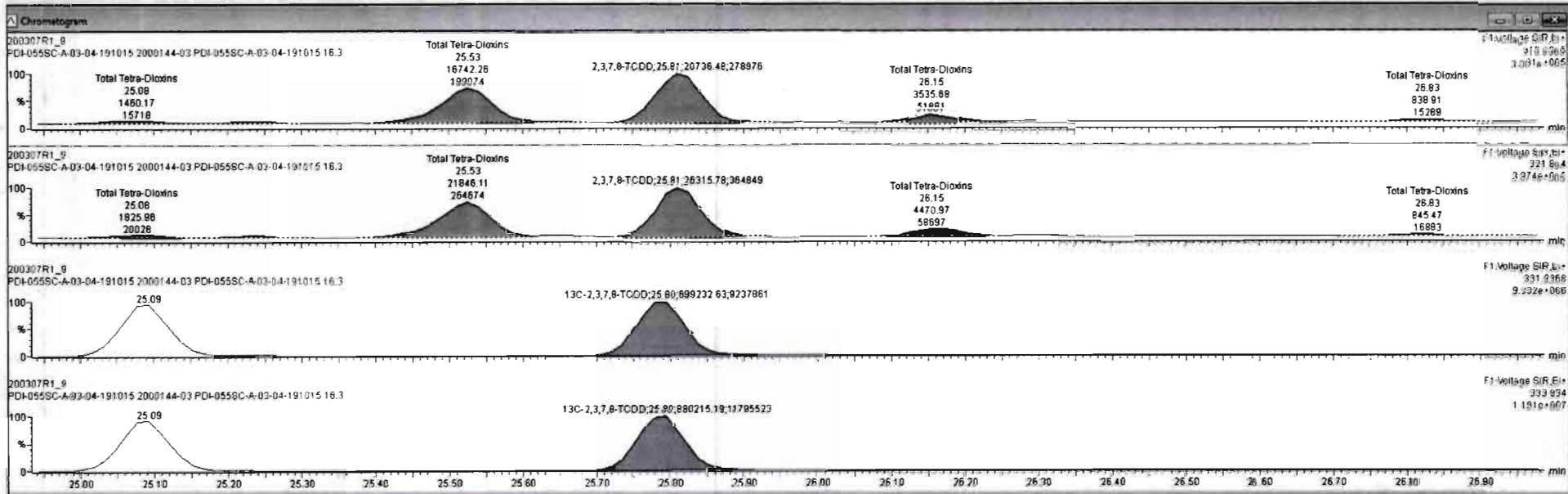
#	Name	Resp	RA	n/y	RRF	StdVcl	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9835	10.026	24.82		0.000		NO	36.37		0.0843	36.88
40	Total Penta-Dioxins				0.9212	10.026	29.96		0.000		NO	43.52		0.105	43.60
41	Total Hexa-Dioxins				0.9844	10.026	33.83		0.000		NO	420.3		0.285	422.1
42	Total Hepta-Dioxins				1.0061	10.026	37.64		0.000		NO	3373		1.13	3373
43	Total Tetra-Furans				0.9154	10.026	23.81		0.000		NO	768.4		0.166	796.1

#	Name	Pred.RT	RT	rel. Resp	rel. RT	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	2,3,7,8-TCDD	25.63	25.81	2.074e4	2.632e4	0.770	0.79	NO	6.0424	6.0424
2	Total Tetra-Dioxins	24.62	21.68	6.058e4	6.498e4	0.770	0.78	NO	14.892	14.892
3	Total Tetra-Dioxins	24.62	21.96	9.895e3	1.287e4	0.770	0.77	NO	2.9232	2.9232
4	Total Tetra-Dioxins	24.62	22.46	2.178e3	2.865e3	0.770	0.82	NO	0.62192	0.62192



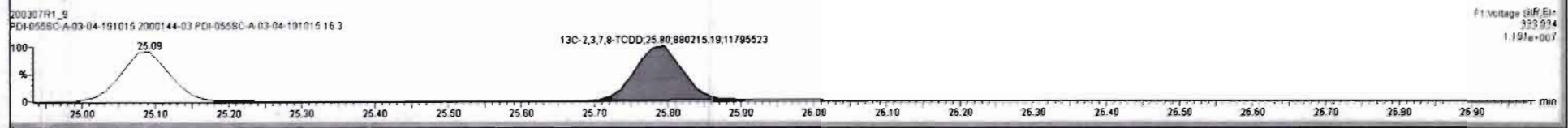
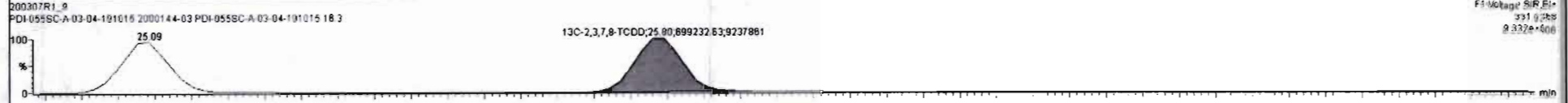
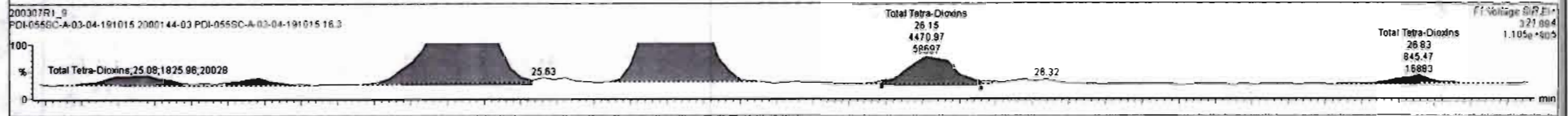
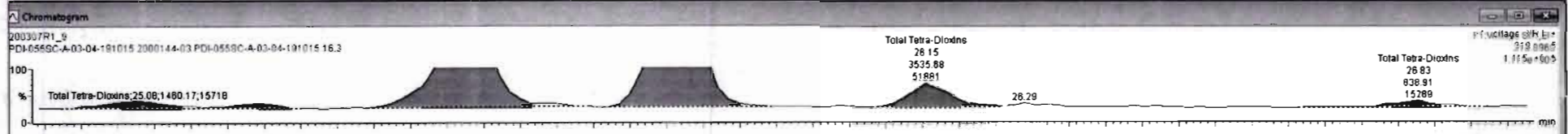
#	Name	Resp	RA	n/y	RRF	wtVcl	Pred.RT	RT	Pred R...	RRT	RRT Fail	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.8835	10.026	24.62		0.000		NO	36.37		0.0943	36.36
40	Total Penta-Dioxins				0.9212	10.026	29.96		0.000		NO	43.52		0.105	43.60
41	Total Hexa-Dioxins				0.9844	10.026	33.83		0.000		NO	420.3		0.295	422.1
42	Total Hepta-Dioxins				1.0061	10.026	37.64		0.000		NO	3373		1.13	3373
43	Total Tetra-Furans				0.9154	10.026	23.81		0.000		NO	788.4		0.166	796.1

#	Name	Pred RT	RT	m1 Ptscp	m2 Ptscp	1* Ratio (Pred)	RA	n/y	EMPC	Conc
1	2,3,7,8-TCDD	25.83	25.81	2.074e4	2.632e4	0.770	0.79	NO	6.0424	6.0424
2	Total Tetra-Dioxins	24.62	21.58	5.099e4	6.499e4	0.770	0.78	NO	14.892	14.892
3	Total Tetra-Dioxins	24.62	21.96	9.895e3	1.267e4	0.770	0.77	NO	2.9232	2.9232
4	Total Tetra-Dioxins	24.62	22.48	2.179e3	2.865e3	0.770	0.82	NO	0.62192	0.62192



#	Name	Resp	RA	n/y	R/P	WVol	Pred RT	RT	Pred R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9836	10.026	24.62		0.000		NO	36.37		0.0943	36.96
40	Total Penta-Dioxins				0.9212	10.026	29.96		0.000		NO	43.52		0.105	43.60
41	Total Hexa-Dioxins				0.9844	10.026	33.63		0.000		NO	420.3		0.295	422.1
42	Total Hepta-Dioxins				1.0061	10.026	37.84		0.000		NO	3373		1.13	3373
43	Total Tetra-Furans				0.9154	10.026	23.81		0.000		NO	768.4		0.166	796.1

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	2,3,7,8-TCDD	25.83	25.81	2.074e4	2.632e4	0.770	0.79	NO	6.0424	6.0424
2	Total Tetra-Dioxins	24.62	21.56	5.098e4	6.498e4	0.770	0.78	NO	14.892	14.892
3	Total Tetra-Dioxins	24.62	21.96	9.895e3	1.267e4	0.770	0.77	NO	2.9232	2.9232
4	Total Tetra-Dioxins	24.62	22.46	2.178e3	2.865e3	0.770	0.82	NO	0.62192	0.62192



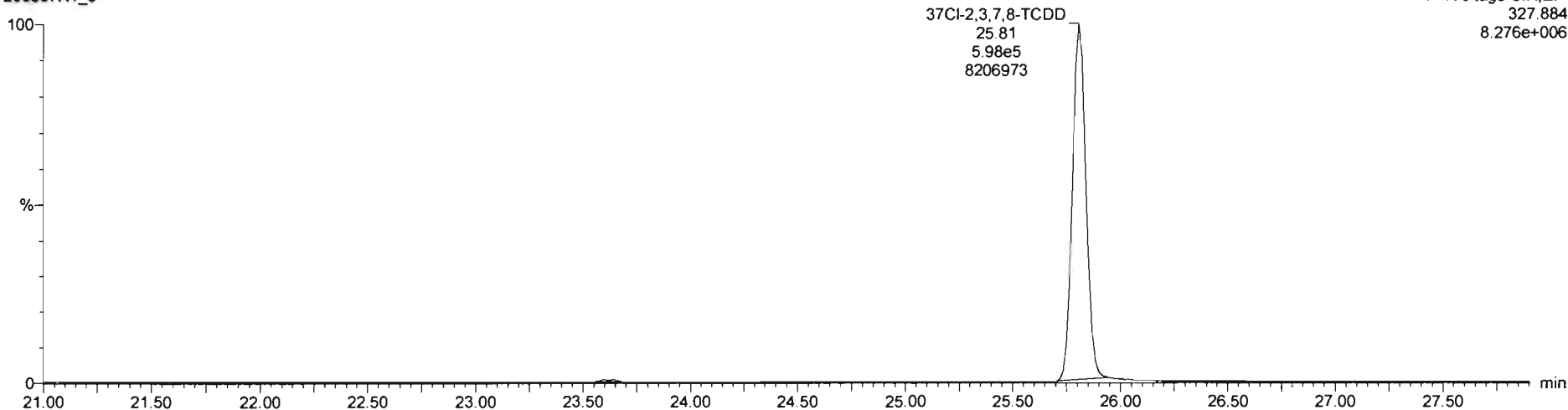
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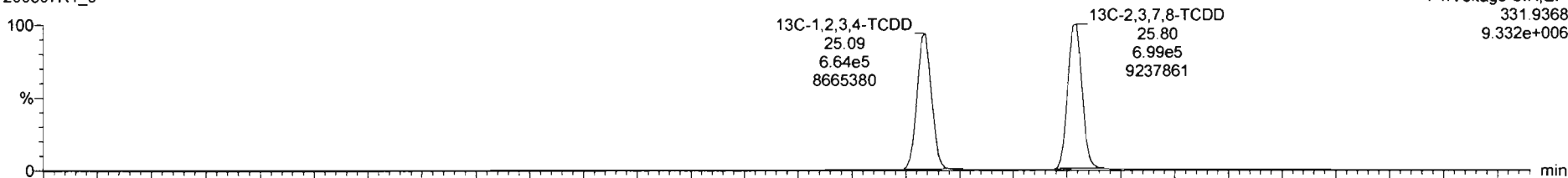
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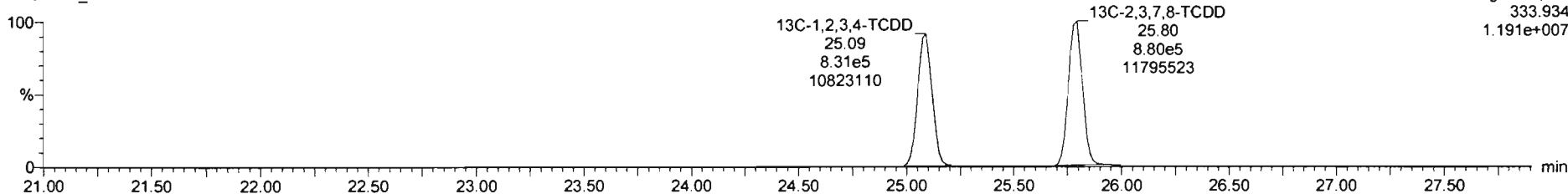


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200307R1_9



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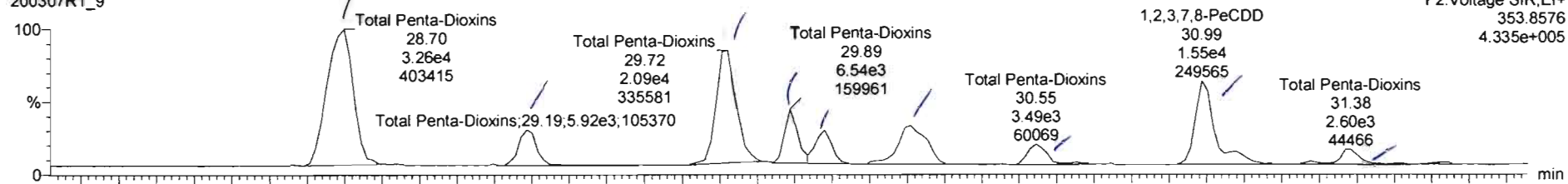
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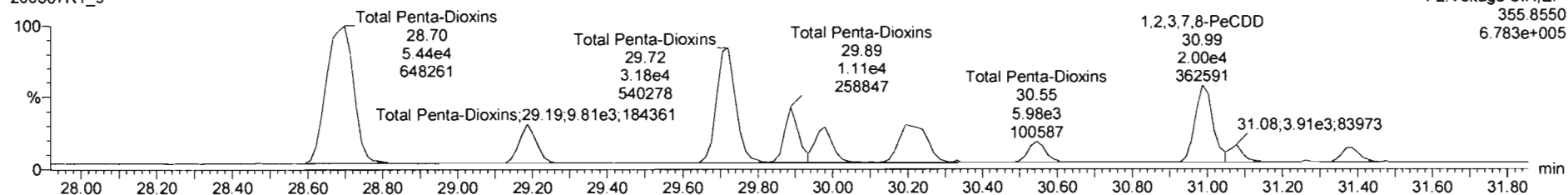
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1,2,3,7,8-PeCDD

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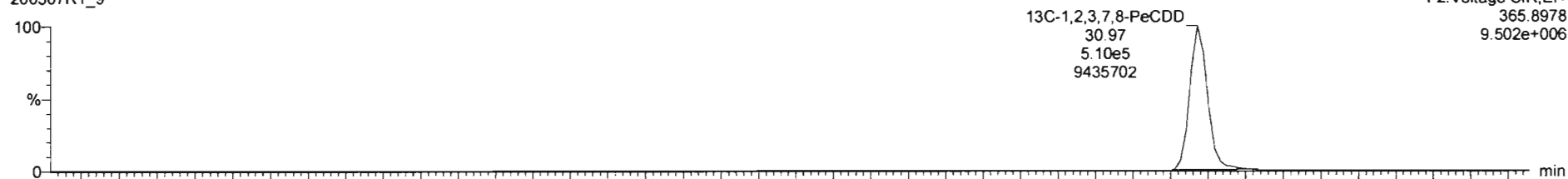


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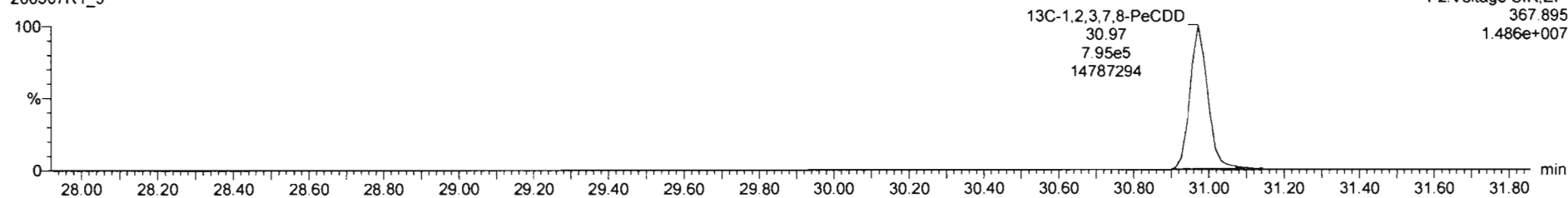


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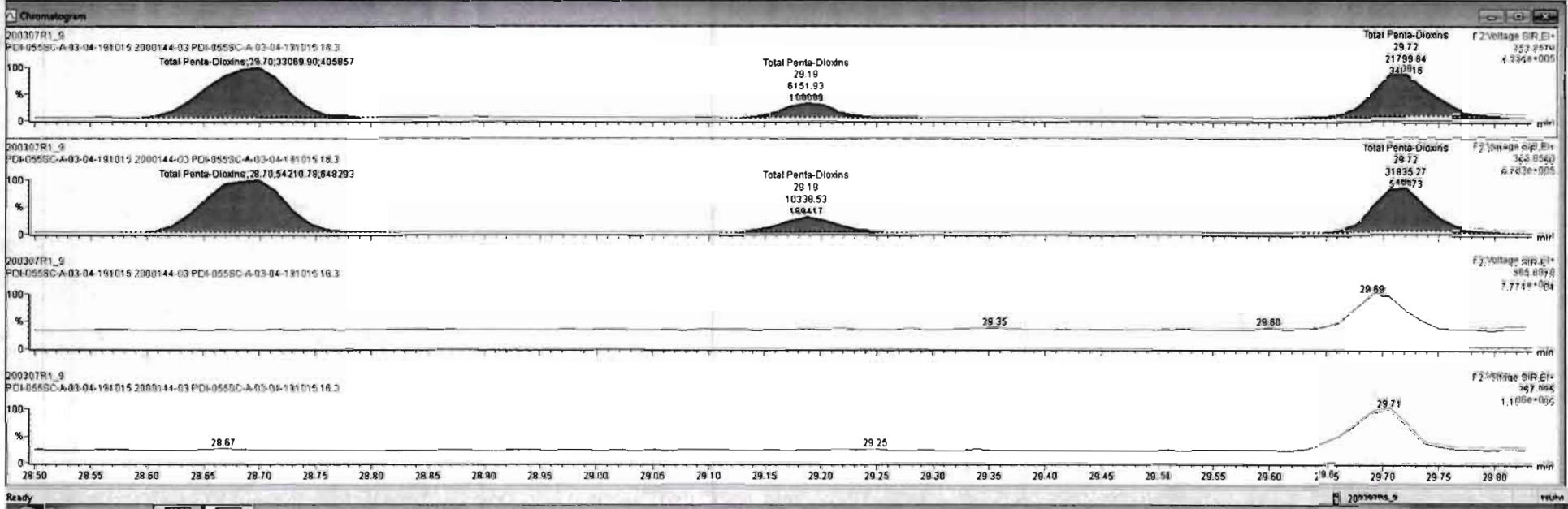
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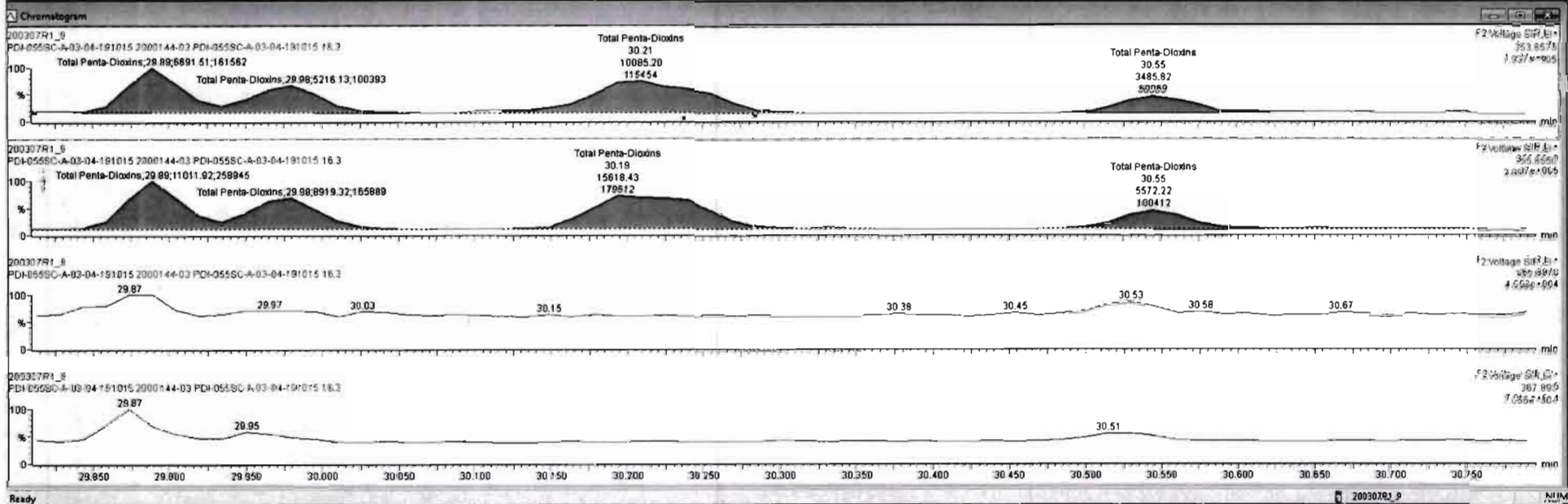
#	Name	Resp	RA	n/y	R/P	wAve	Pred RT	RT	Pred R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
40	Total Penta-Dioxins				0.9212	10.026	29.98		0.000		NO	43.78		0.105	43.78
41	Total Hexa-Dioxins				0.9944	10.026	33.63		0.000		NO	420.3		0.295	422.1
42	Total Hepta-Dioxins				1.0061	10.026	37.84		0.000		NO	3373		1.13	3373
43	Total Tetra-Furans				0.9154	10.026	23.61		0.000		NO	788.4		0.166	796.1
44	1st Func. Penta-Furans				0.9594	10.026	27.09		0.000		NO	64.96		0.0421	65.02

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1st Ratio (Pred)	RA	n/y	EMPC	Conc.
1	2,1,2,3,7,8-PeCDD	30.99	30.99	1.325e4	2.010e4	0.630	0.96	NO	5.5464	5.5464
2	Total Penta-Dioxins	29.98	29.70	3.307e4	5.421e4	0.630	0.91	NO	14.483	14.483
3	Total Penta-Dioxins	29.98	29.19	6.152e3	1.034e4	0.630	0.90	NO	2.7363	2.7363
4	Total Penta-Dioxins	29.98	29.72	2.180e4	3.184e4	0.630	0.98	NO	8.8997	8.8997
5	Total Penta-Dioxins	29.98	29.89	6.892e3	1.101e4	0.630	0.91	NO	2.9376	2.9376
6	Total Penta-Dioxins	29.98	29.98	5.219e3	8.919e3	0.630	0.98	NO	2.3455	2.3455
7	Total Penta-Dioxins	29.98	30.21	1.009e4	1.562e4	0.630	0.95	NO	4.2650	4.2650
8	Total Penta-Dioxins	29.98	30.55	3.486e3	5.572e3	0.630	0.93	NO	1.5030	1.5030
9	Total Penta-Dioxins	29.98	31.38	2.621e3	3.875e3	0.630	0.88	NO	1.0778	1.0778



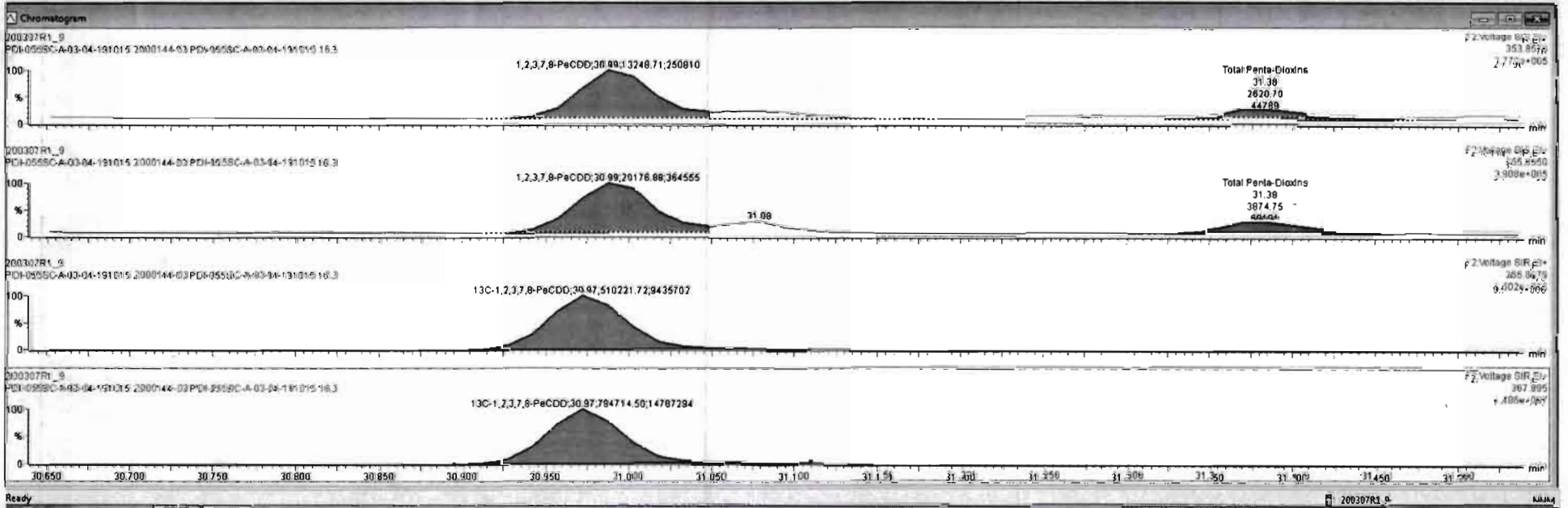
#	Name	Resp	RA	n/y	RF	wAve	Prod.RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
40	Total Penta-Dioxins				0.9212	10.026	29.96		0.000		NO	43.78		0.105	43.78
41	Total Hexa-Dioxins				0.9844	10.026	33.63		0.000		NO	420.3		0.295	422.1
42	Total Hepta-Dioxins				1.0061	10.026	37.64		0.000		NO	3373		1.13	3373
43	Total Tetra-Furans				0.9154	10.026	23.61		0.000		NO	768.4		0.166	796.1
44	1st Func. Penta-Furans				0.9594	10.026	27.09		0.000		NO	64.96		0.0421	65.02

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	2,1,2,3,7,8-PeCDD	30.99	30.99	1.325e4	2.018e4	0.630	0.86	NO	5.5464	5.5484
2	Total Penta-Dioxins	29.96	28.70	3.307e4	5.421e4	0.630	0.81	NO	14.483	14.483
3	Total Penta-Dioxins	29.96	29.19	6.152e3	1.034e4	0.630	0.80	NO	2.7363	2.7363
4	Total Penta-Dioxins	29.96	29.72	2.180e4	3.184e4	0.630	0.88	NO	8.8997	8.8997
5	Total Penta-Dioxins	29.96	29.88	8.892e3	1.101e4	0.630	0.81	NO	2.9376	2.9376
6	Total Penta-Dioxins	29.96	29.98	5.216e3	8.919e3	0.630	0.58	NO	2.3455	2.3455
7	Total Penta-Dioxins	29.96	30.21	1.009e4	1.562e4	0.630	0.85	NO	4.2650	4.2650
8	Total Penta-Dioxins	29.96	30.55	3.488e3	5.572e3	0.630	0.63	NO	1.5030	1.5030
9	Total Penta-Dioxins	29.96	31.38	2.621e3	3.875e3	0.630	0.68	NO	1.0778	1.0778



#	Name	Resp	RA	rly	RPF	wt/vol	Pred RT	RT	Pred R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
40	Total Penta-Dioxins				0.9212	10.026	29.96		0.000		NO	43.78		0.109	43.78
41	Total Hexa-Dioxins				0.9844	10.026	33.83		0.000		NO	420.3		0.295	422.1
42	Total Hepta-Dioxins				1.0061	10.026	37.84		0.000		NO	3373		1.13	3373
43	Total Tetra-Furans				0.9154	10.026	23.81		0.000		NO	768.4		0.166	796.1
44	1st Func. Penta-Furans				0.9594	10.026	27.09		0.000		NO	64.96		0.0421	65.02

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	rly	EMPC	Conc.
1	2,3,7,8-PeCDD	30.99	30.99	1.325e4	2.010e4	0.630	0.86	NO	5.5464	5.5484
2	Total Penta-Dioxins	29.96	28.70	3.307e4	5.421e4	0.630	0.61	NO	14.483	14.483
3	Total Penta-Dioxins	29.96	29.19	6.152e3	1.034e4	0.630	0.60	NO	2.7363	2.7363
4	Total Penta-Dioxins	29.96	29.72	2.180e4	3.184e4	0.630	0.88	NO	8.8997	8.8997
5	Total Penta-Dioxins	29.96	29.89	6.692e3	1.101e4	0.630	0.61	NO	2.9378	2.9378
6	Total Penta-Dioxins	29.96	29.98	5.219e3	8.819e3	0.630	0.58	NO	2.3455	2.3455
7	Total Penta-Dioxins	29.96	30.21	1.009e4	1.562e4	0.630	0.65	NO	4.2650	4.2650
8	Total Penta-Dioxins	29.96	30.55	3.486e3	5.572e3	0.630	0.63	NO	1.5030	1.5030
9	Total Penta-Dioxins	29.96	31.38	2.621e3	3.875e3	0.630	0.88	NO	1.0778	1.0778



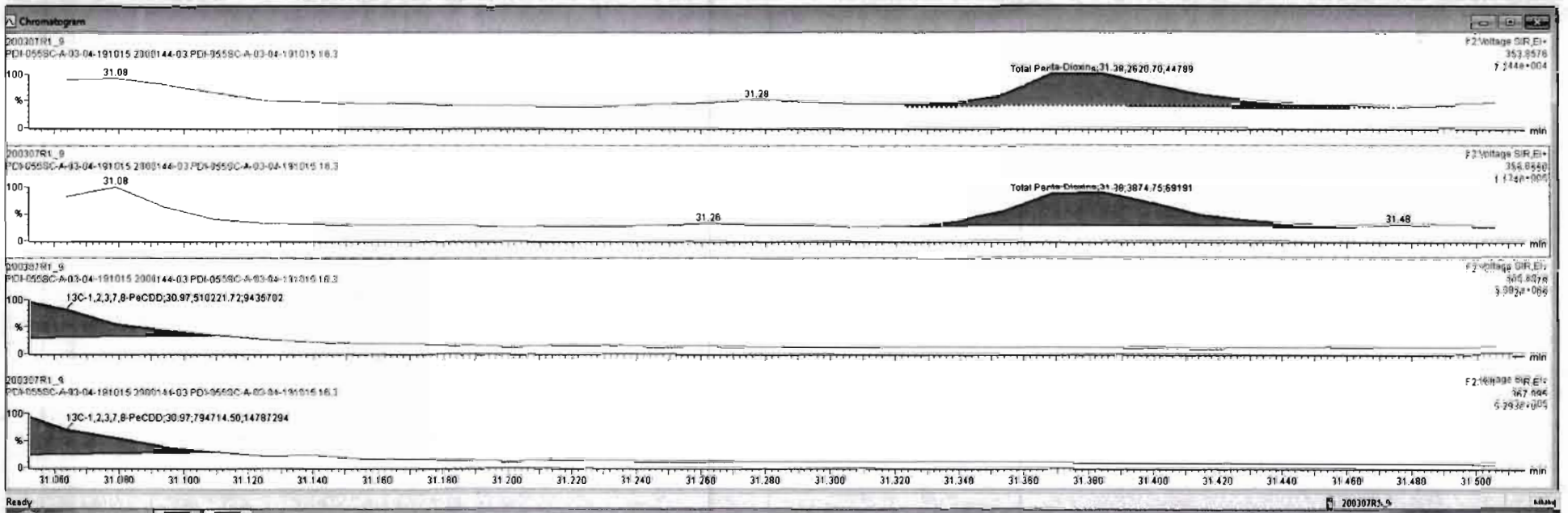
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200307R1_9 - 2000144-03 PDI-0559C-A-03-04-191015 16.3 - PDI-0559C-A-03-04-191015

#	Name	Resp	RA	n/y	RRF	w/val	Pred RT	RT	Pred R.	RR1	RRT Fail	Conc.	%Rec	DL	EMPC
40	Total Penta-Dioxins				0.8212	10.026	29.96		0.000		NO	43.78		0.105	43.78
41	Total Hexa-Dioxins				0.9644	10.026	33.63		0.000		NO	420.3		0.295	422.1
42	Total Hepta-Dioxins				1.0061	10.026	37.84		0.000		NO	3373		1.13	3373
43	Total Tetra-Furans				0.9154	10.026	23.61		0.000		NO	768.4		0.166	796.1
44	tot Func. Penta-Furans				0.9594	10.026	27.09		0.000		NO	64.96		0.0421	65.02

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	2,3,7,8-PeCDD	30.99	30.99	1.325e4	2.019e4	0.630	0.66	NO	5.5464	5.5464
2	Total Penta-Dioxins	29.96	28.70	3.307e4	5.421e4	0.630	0.61	NO	14.483	14.483
3	Total Penta-Dioxins	29.96	29.19	6.152e3	1.034e4	0.630	0.60	NO	2.7363	2.7363
4	Total Penta-Dioxins	29.96	29.72	2.180e4	3.184e4	0.630	0.68	NO	8.8997	8.8997
5	Total Penta-Dioxins	29.96	29.89	6.692e3	1.101e4	0.630	0.61	NO	2.9376	2.9376
6	Total Penta-Dioxins	29.96	29.98	6.219e3	8.919e3	0.630	0.68	NO	2.3455	2.3455
7	Total Penta-Dioxins	29.96	30.21	1.009e4	1.552e4	0.630	0.65	NO	4.2650	4.2650
8	Total Penta-Dioxins	29.96	30.55	3.486e3	5.572e3	0.630	0.63	NO	1.9030	1.9030
9	Total Penta-Dioxins	29.96	31.39	2.621e3	3.875e3	0.630	0.68	NO	1.0778	1.0778

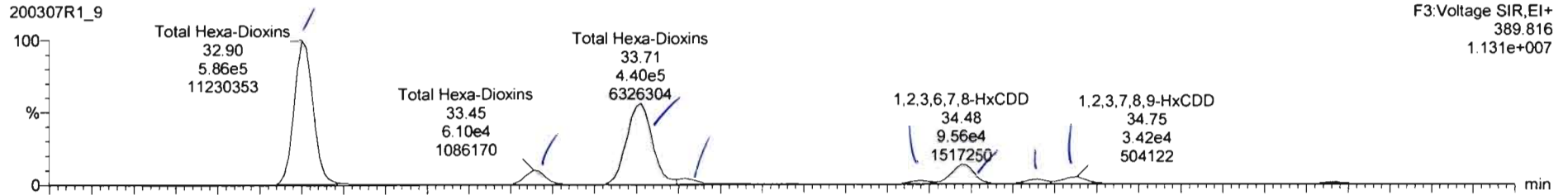


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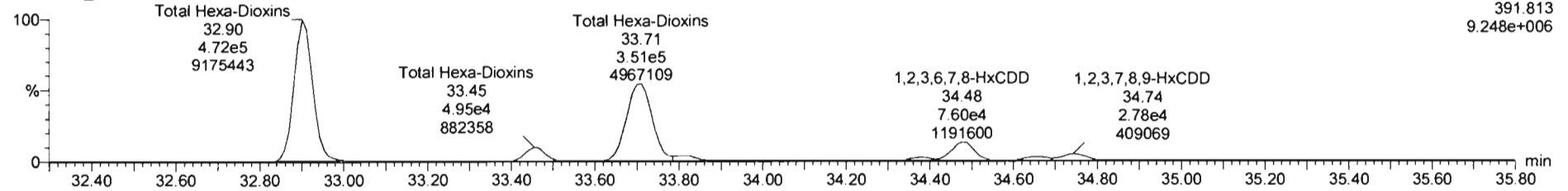
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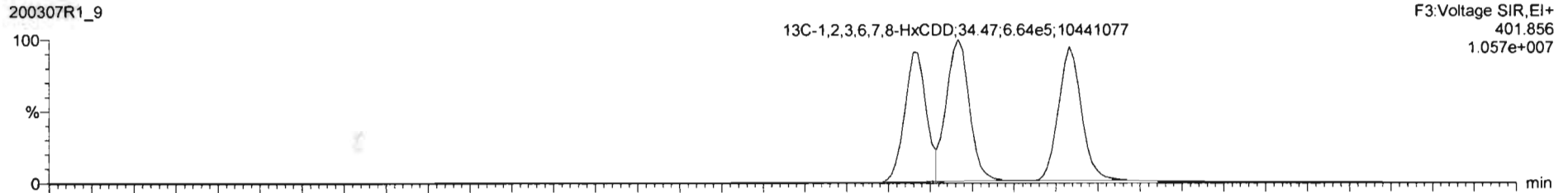
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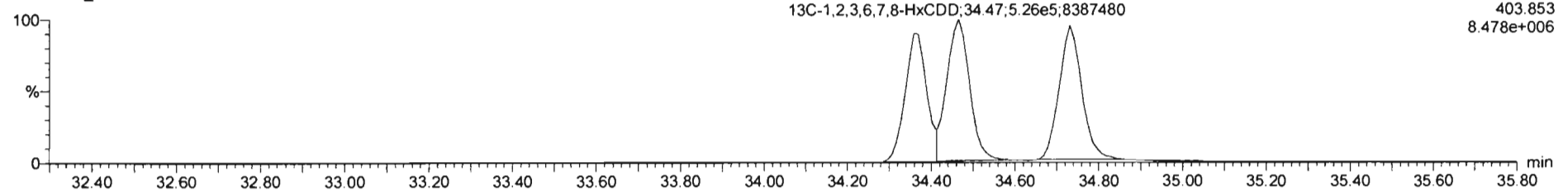
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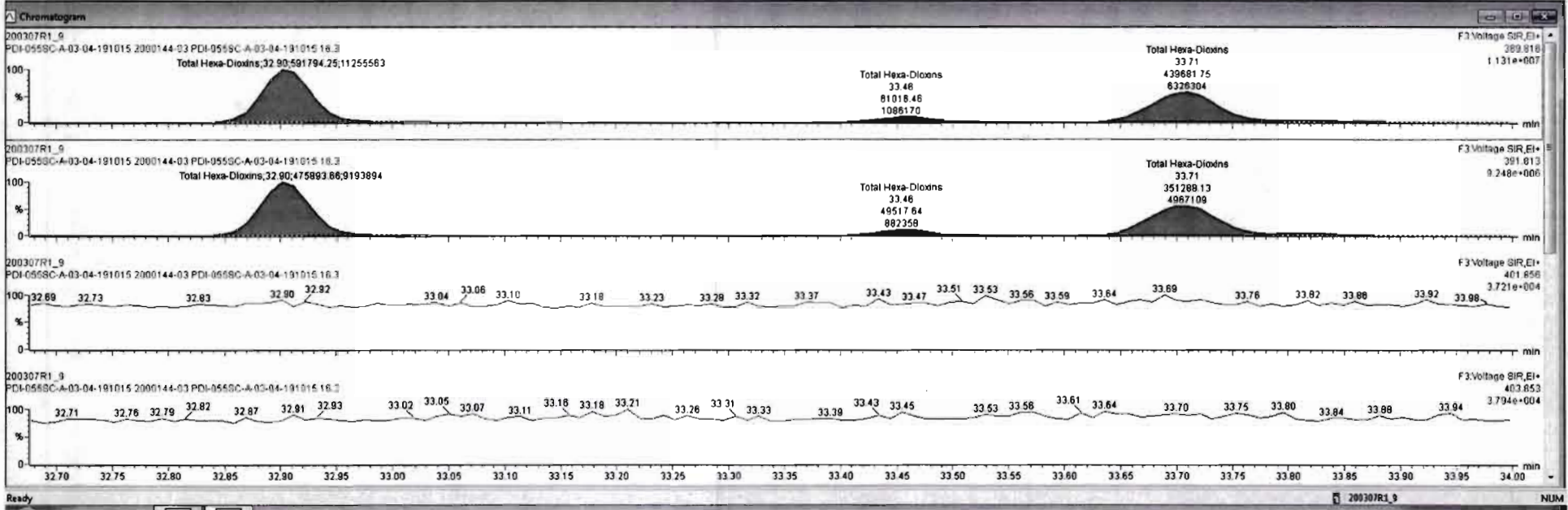


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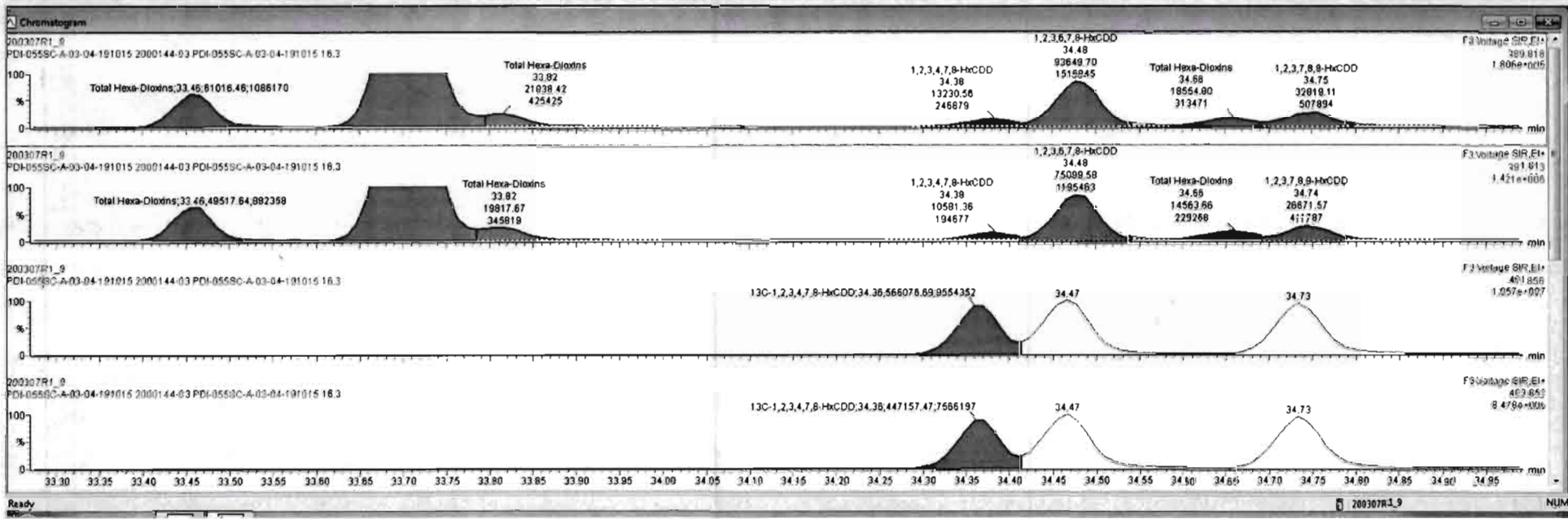
#	Name	Resp	RA	n/y	RRF	wtAvd	Presd RT	RT	Presd R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
40	Total Penta-Dioxins				0.9212	10.026	29.96		0.000		NO	43.79	0.105		43.79
41	Total Hexa-Dioxins				0.5844	10.026	33.63		0.000		NO	421.5	0.295		421.5
42	Total Hepta-Dioxins				1.0061	10.026	37.64		0.000		NO	3373	1.13		3373
43	Total Tetra-Furans				0.9154	10.026	23.61		0.000		NO	768.4	0.166		796.1
44	1st Func. Penta-Furans				0.9594	10.026	27.09		0.000		NO	64.96	0.0421		85.02

#	Name	Presd RT	RT	Int Resp	n2 Resp	1* Ratio (Presd)	RA	n/y	EMPC	Conc.
3	1,2,3,4,7,8-HxCDD	34.37	34.36	1.323e4	1.050e4	1.240	1.25	NO	4.1393	4.1393
4	1,2,3,6,7,8-HxCDD	34.47	34.48	9.365e4	7.510e4	1.240	1.25	NO	28.807	28.807
5	1,2,3,7,8,9-HxCDD	34.74	34.75	3.262e4	2.667e4	1.240	1.23	NO	11.239	11.239
41	Total Hexa-Dioxins	33.63	32.90	5.919e5	4.759e5	1.240	1.24	NO	197.17	197.17
41	Total Hexa-Dioxins	33.63	33.48	8.102e4	4.952e4	1.240	1.23	NO	20.412	20.412
41	Total Hexa-Dioxins	33.63	33.71	4.397e5	3.513e5	1.240	1.25	NO	146.07	146.07
41	Total Hexa-Dioxins	33.63	33.82	2.104e4	1.982e4	1.240	1.06	NO	7.5449	7.5449
41	Total Hexa-Dioxins	33.63	34.86	1.855e4	1.456e4	1.240	1.27	NO	6.1160	6.1160



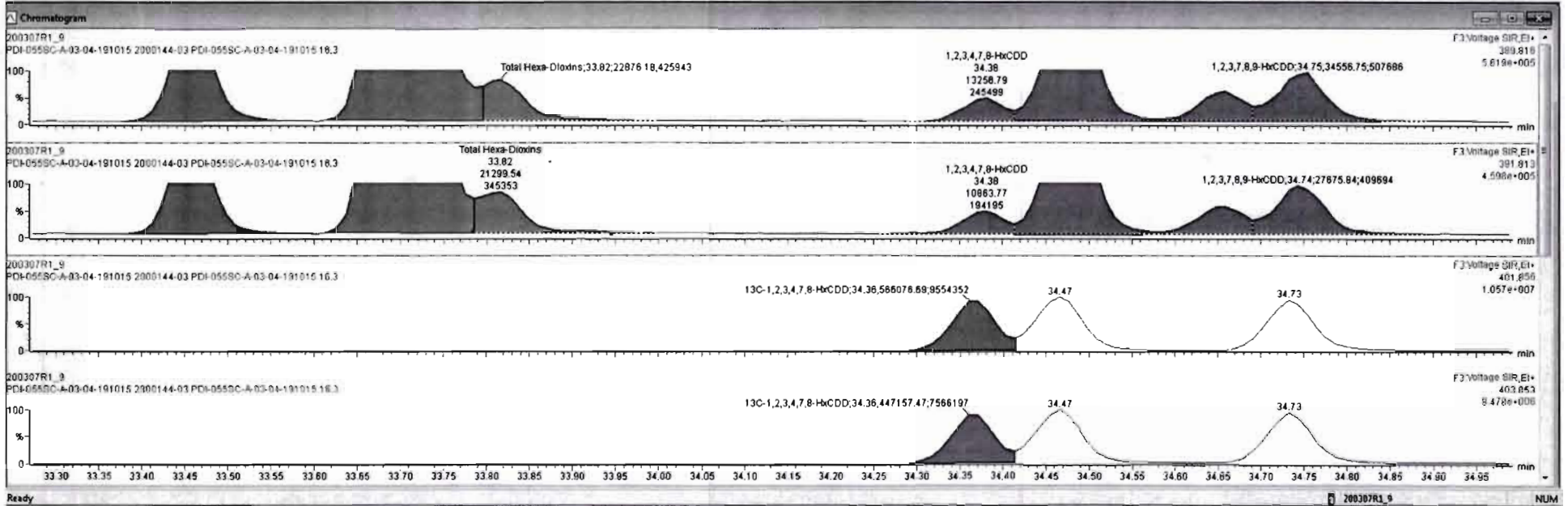
#	Name	Resp	RA	n/y	RPF	wtVol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
40	Total Penta-Dioxins				0.9212	10.026	29.96		0.000		NO	43.79		0.105	43.79
41	Total Hexa-Dioxins				0.9544	10.026	33.63		0.000		NO	421.5		0.295	421.5
42	Total Hepta-Dioxins				1.0061	10.026	37.84		0.000		NO	3373		1.13	3373
43	Total Tetra-Furans				0.9154	10.026	23.51		0.000		NO	768.4		0.166	768.1
44	1st Func. Penta-Furans				0.9594	10.026	27.09		0.000		NO	64.96		0.0421	65.02

#	Name	Pred.RT	RT	n1 Resp	n2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc
1	3,1,2,3,4,7,8-HxCDD	34.37	34.38	1.323e4	1.059e4	1.240	1.25	NO	4.1393	4.1393
2	4,1,2,3,6,7,8-HxCDD	34.47	34.48	9.365e4	7.510e4	1.240	1.25	NO	28.807	28.807
3	5,1,2,3,7,8,9-HxCDD	34.74	34.75	3.262e4	2.667e4	1.240	1.23	NO	11.239	11.239
4	Total Hexa-Dioxins	33.63	32.90	5.919e5	4.759e5	1.240	1.24	NO	197.17	197.17
5	Total Hexa-Dioxins	33.63	33.46	6.102e4	4.952e4	1.240	1.23	NO	20.412	20.412
6	Total Hexa-Dioxins	33.63	33.71	4.397e5	3.513e5	1.240	1.25	NO	146.07	146.07
7	Total Hexa-Dioxins	33.63	33.82	2.104e4	1.982e4	1.240	1.06	NO	7.5449	7.5449
8	Total Hexa-Dioxins	33.63	34.66	1.855e4	1.456e4	1.240	1.27	NO	6.1160	6.1160



#	Name	Resp	RA	n/y	RRP	WtVal	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc	%Rec	DL	EMPC
40	Total Penta-Dioxins				0.9212	10.026	29.96		0.000		NO	43.79		0.105	43.79
41	Total Hexa-Dioxins				0.9644	10.026	33.83		0.000		NO	417.7		0.295	417.7
42	Total Hepta-Dioxins				1.0081	10.026	37.84		0.000		NO	337.3		1.13	337.3
43	Total Tetra-Furans				0.9154	10.026	23.61		0.000		NO	768.4		0.166	796.1
44	1st Func. Penta-Furans				0.9594	10.026	27.09		0.000		NO	64.96		0.0421	95.02

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	41 Total Hexa-Dioxins	33.63	32.90	5.918e5	4.759e5	1.240	1.24	NO	194.49	194.49
2	41 Total Hexa-Dioxins	33.63	33.45	6.102e4	4.952e4	1.240	1.23	NO	20.135	20.135
3	41 Total Hexa-Dioxins	33.63	33.71	4.367e5	3.513e5	1.240	1.25	NO	144.08	144.08
4	41 Total Hexa-Dioxins	33.63	33.82	2.289e4	2.130e4	1.240	1.07	NO	8.0470	8.0470
5	3 1,2,3,4,7,8-HxCDD	34.37	34.38	1.328e4	1.086e4	1.240	1.22	NO	4.1929	4.1929
6	4 1,2,3,6,7,8-HxCDD	34.47	34.48	9.524e4	7.646e4	1.240	1.25	NO	29.000	29.000
7	41 Total Hexa-Dioxins	33.63	34.66	1.969e4	1.517e4	1.240	1.30	NO	6.3507	6.3507
8	5 1,2,3,7,8,9-HxCDD	34.74	34.75	3.458e4	2.788e4	1.240	1.25	NO	11.415	11.415



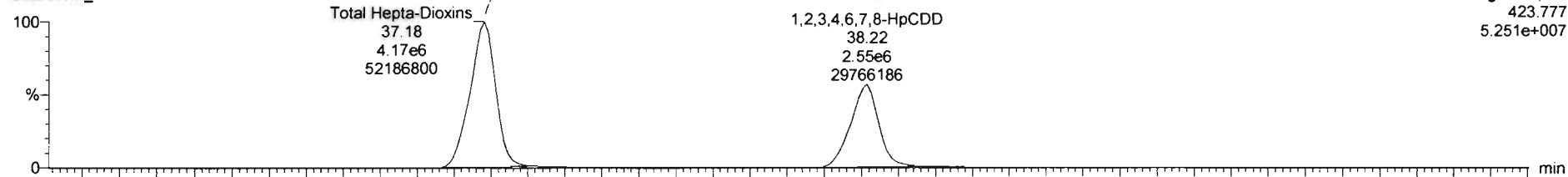
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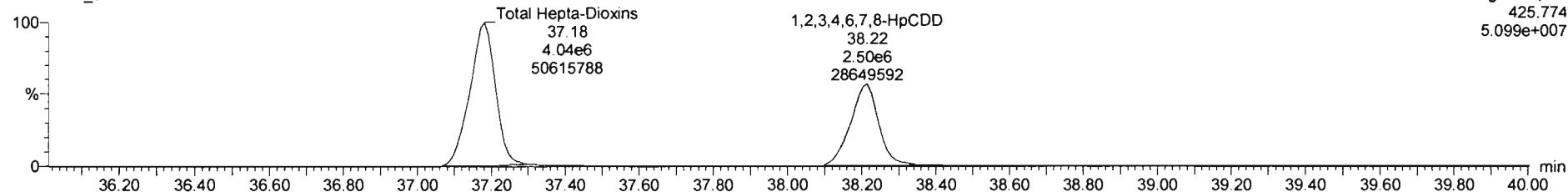
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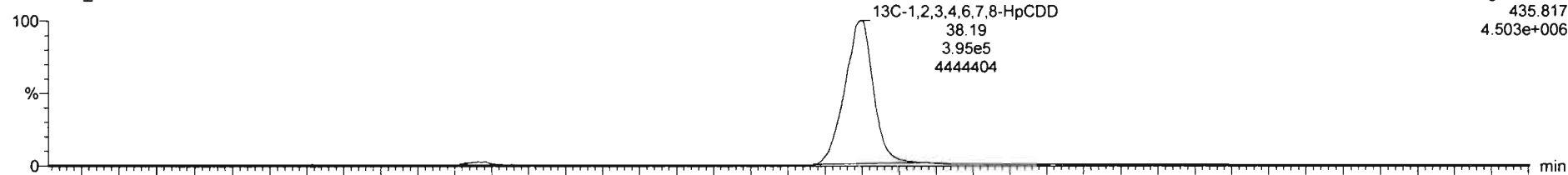


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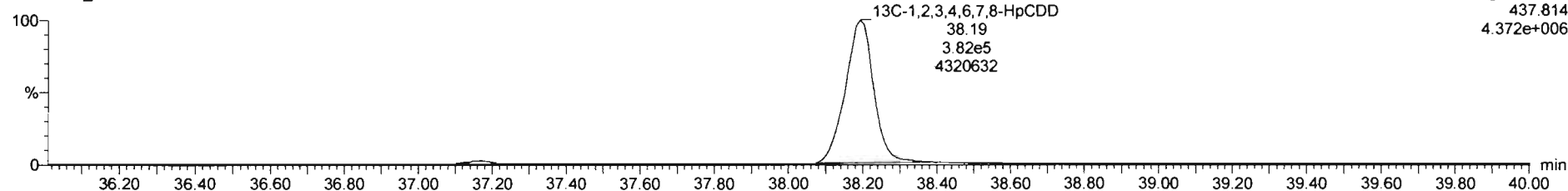


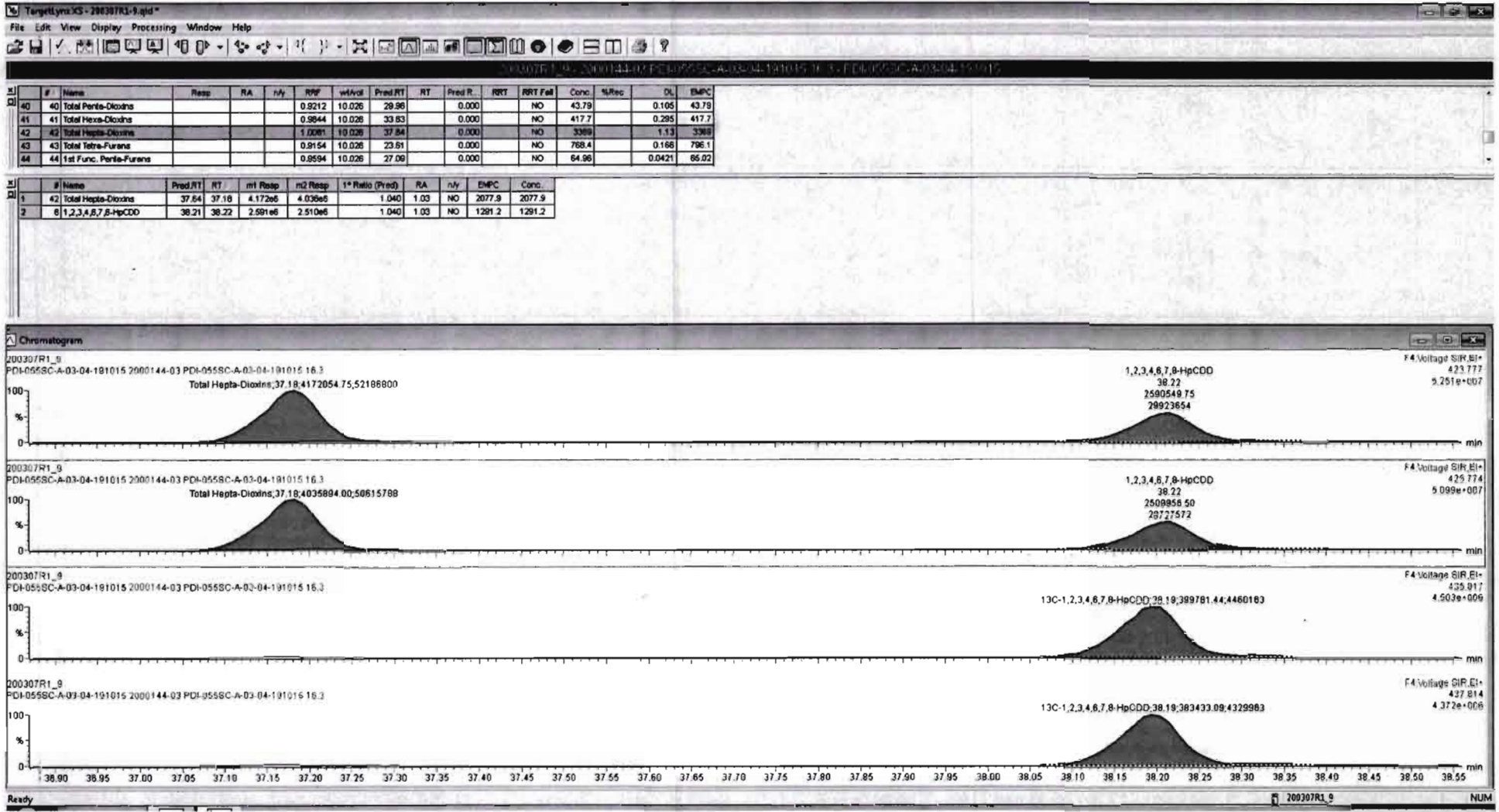
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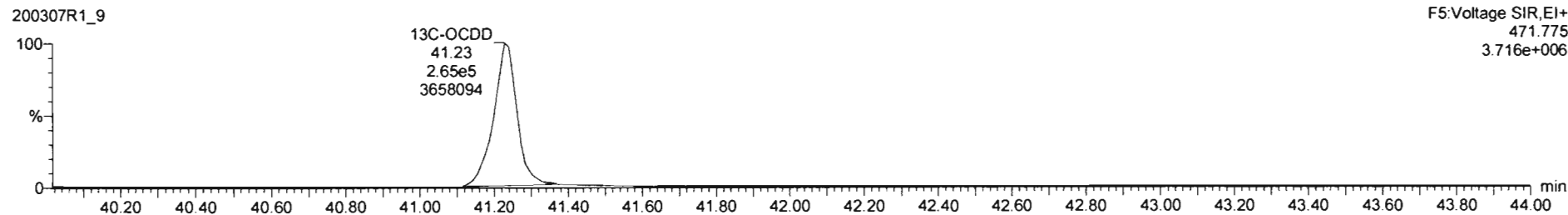
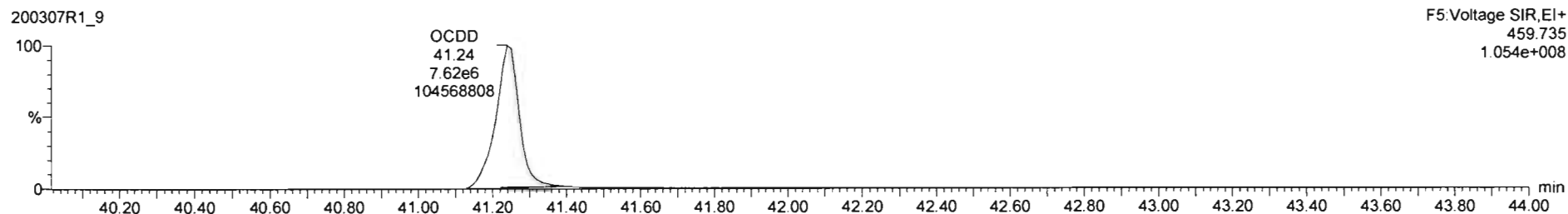
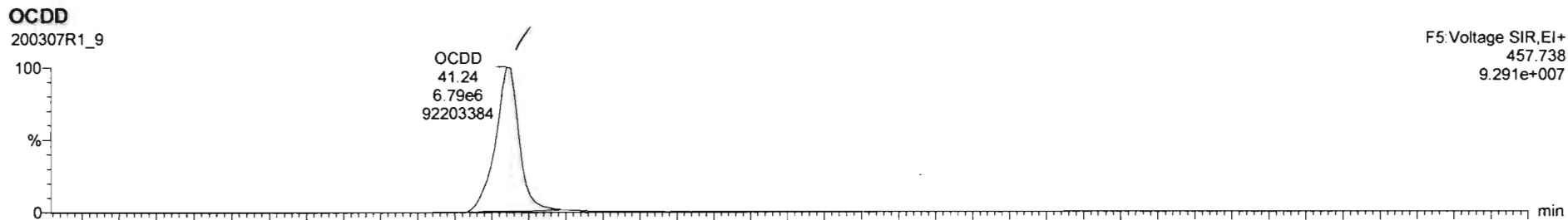




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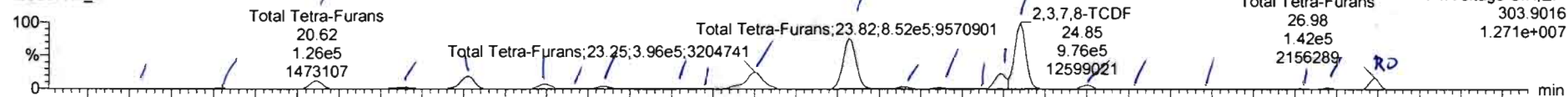
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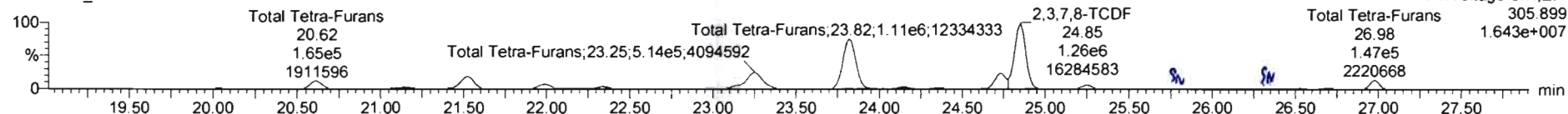
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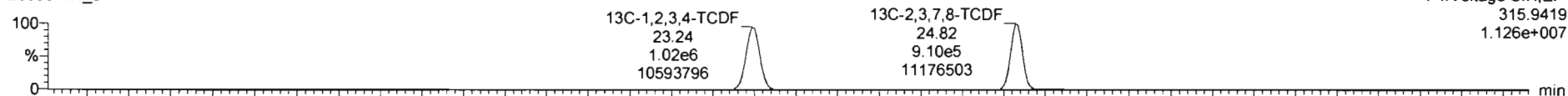


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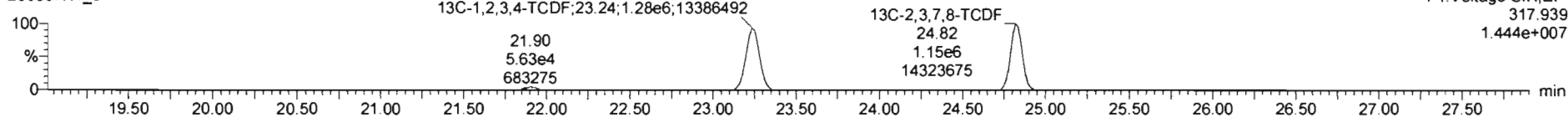


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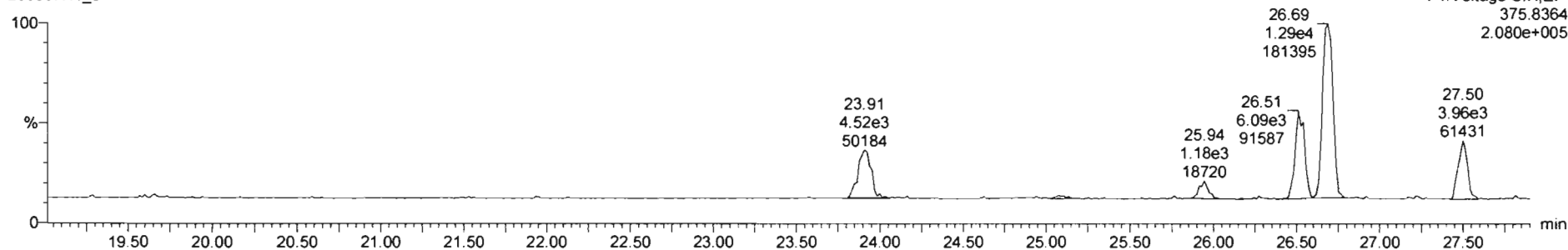


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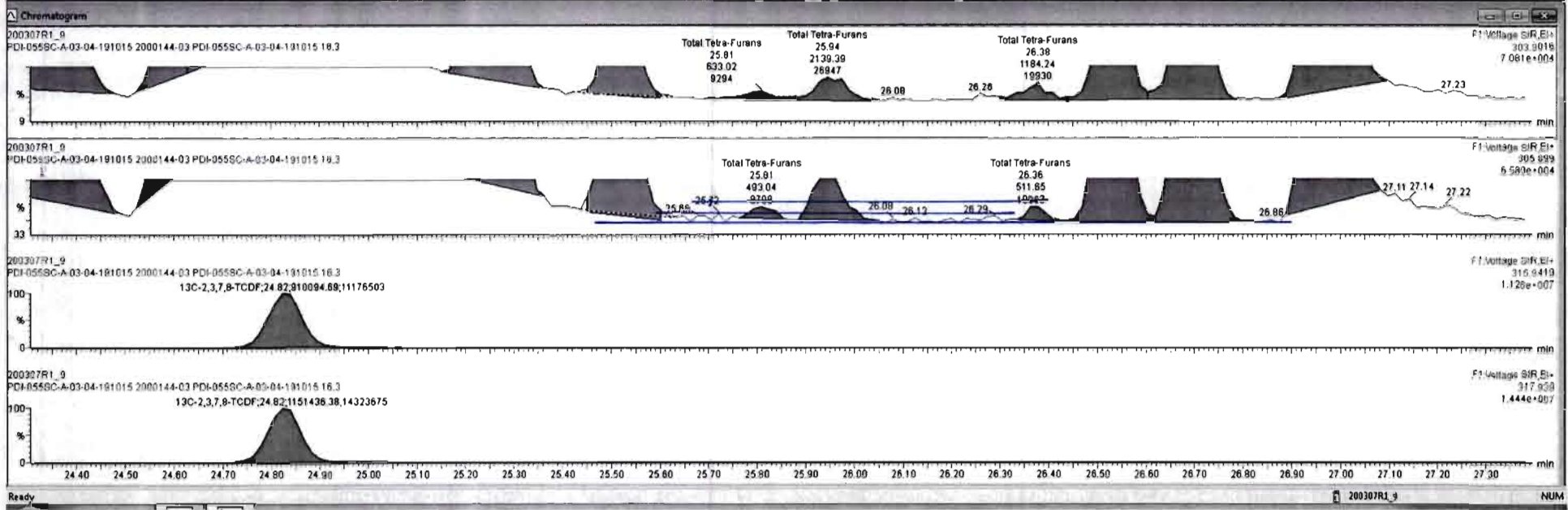
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200307R1_9



#	Name	Resp	RA	n/y	RPF	wVol	Pred RT	RT	Pred R	RR1	RRT Fail	Conc	%Rec	DL	EMPC
42	Total Hepta-Dioxins				1.0061	10.026	37.54		0.000		NO	3369		1.13	3369
43	Total Tetra-Furans				0.9154	10.026	23.91		0.000		NO	768.7		0.168	796.4
44	1st Func. Penta-Furans				0.9594	10.026	27.09		0.000		NO	64.96		0.0421	85.07
45	Total Penta-Furans				0.9594	10.026	29.27		0.000		NO	881.4		0.173	882.6
46	Total Hexa-Furans				1.0920	10.026	33.58		0.000		NO	851.6		0.256	855.6

#	Name	Pred RT	RT	ret Resp	rt2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc
1	43 Total Tetra-Furans	23.61	19.54	4.515e3	1.116e4	0.770	0.76	NO	2.0758	2.0758
2	43 Total Tetra-Furans	23.61	20.03	1.746e4	2.217e4	0.770	0.79	NO	4.1891	4.1891
3	43 Total Tetra-Furans	23.61	20.62	1.261e5	1.650e5	0.770	0.76	NO	30.772	30.772
4	43 Total Tetra-Furans	23.61	21.13	4.773e4	6.212e4	0.770	0.77	NO	11.612	11.612
5	43 Total Tetra-Furans	23.61	21.53	2.305e5	2.974e5	0.770	0.77	NO	55.799	55.799
6	43 Total Tetra-Furans	23.61	21.89	7.933e4	1.028e5	0.770	0.77	NO	19.234	19.234
7	43 Total Tetra-Furans	23.61	22.14	6.461e3	1.094e4	0.770	0.77	NO	2.0506	2.0506
8	43 Total Tetra-Furans	23.61	22.34	4.085e4	5.258e4	0.770	0.78	NO	9.8732	9.8732
9	43 Total Tetra-Furans	23.61	22.82	7.086e3	9.802e3	0.770	0.72	NO	1.7854	1.7854

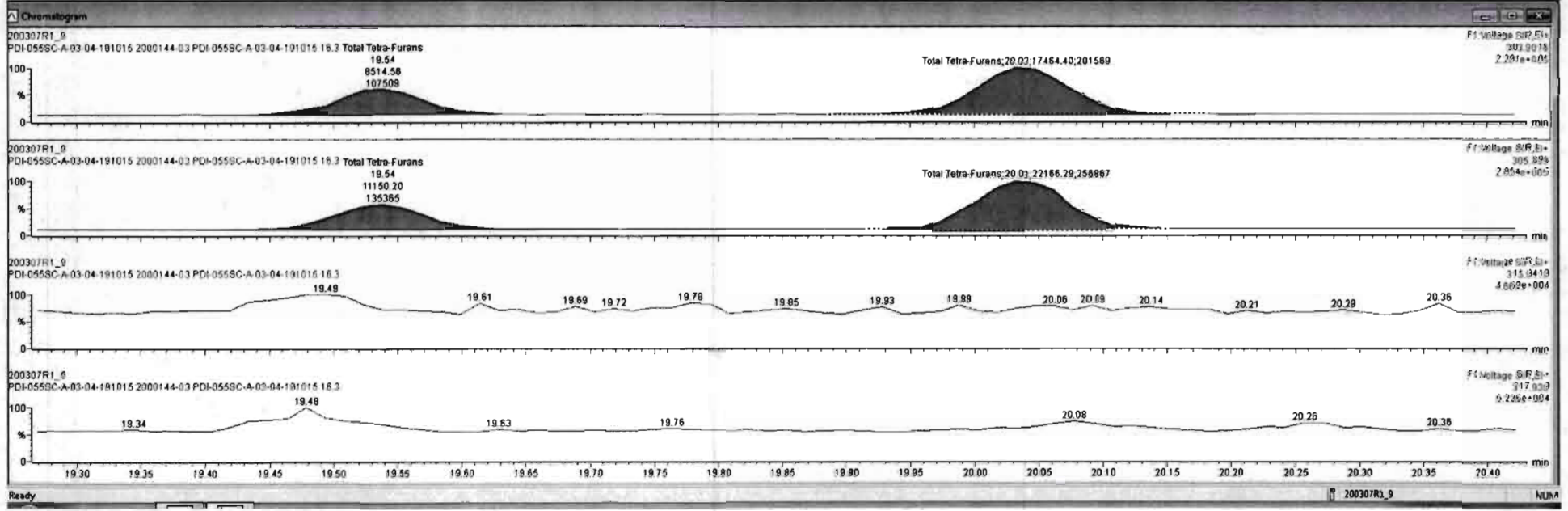


Targetlynx X3 - 290307R3_9.qld*

File Edit View Display Processing Window Help

#	Name	Resp	RA	n/y	RFP	wt/ct	Pred RT	RT	Pred R	RRT	RRT Fail	Conc	%Rec	DL	DLPC
42	Total Hepta-Dioxins				1.0061	10.026	37.84		0.000		NO	3369		1.13	2389
43	Total Tetra-Furans				0.9184	10.026	23.81		0.000		NO	776.8		0.166	796.8
44	1st Func. Penta-Furans				0.9594	10.026	27.09		0.000		NO	84.98		0.0421	85.02
45	Total Penta-Furans				0.9594	10.026	29.27		0.000		NO	861.4		0.173	862.8
46	Total Hexa-Furans				1.0920	10.026	33.58		0.000		NO	851.8		0.256	855.6

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc
1	43 Total Tetra-Furans	23.81	19.54	8.515e3	1.115e4	0.770	0.76	NO	2.0786	2.0786
2	43 Total Tetra-Furans	23.81	20.03	1.748e4	2.217e4	0.770	0.79	NO	4.1891	4.1891
3	43 Total Tetra-Furans	23.81	20.62	1.261e5	1.650e5	0.770	0.76	NO	30.772	30.772
4	43 Total Tetra-Furans	23.81	21.13	4.773e4	8.212e4	0.770	0.77	NO	11.612	11.612
5	43 Total Tetra-Furans	23.81	21.53	2.305e5	2.974e5	0.770	0.77	NO	55.799	55.799
6	43 Total Tetra-Furans	23.81	21.99	7.933e4	1.028e5	0.770	0.77	NO	19.234	19.234
7	43 Total Tetra-Furans	23.81	22.14	8.461e3	1.094e4	0.770	0.77	NO	2.0506	2.0506
8	43 Total Tetra-Furans	23.81	22.34	4.085e4	5.258e4	0.770	0.78	NO	9.8732	9.8732
9	43 Total Tetra-Furans	23.81	22.82	7.098e3	9.802e3	0.770	0.72	NO	1.7854	1.7854

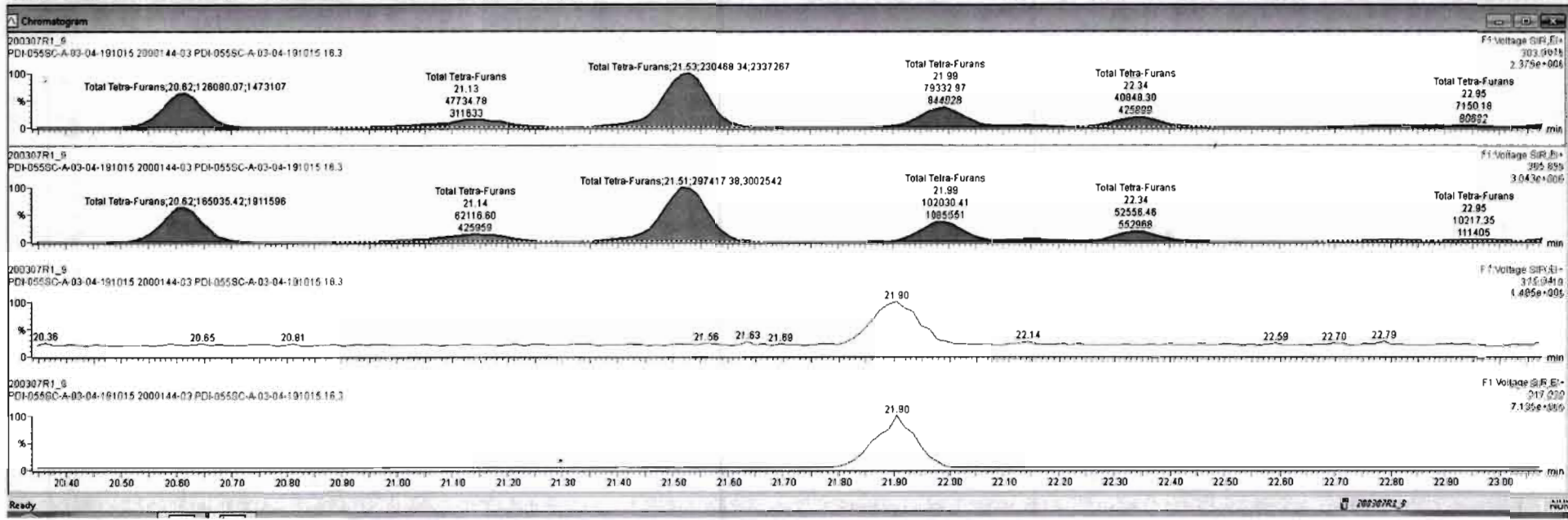


TargetSync-XS - 200307R1-9.qld*

File Edit View Display Processing Window Help

#	Name	Resp	RA	n/y	R/R	wt/vol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
42	Total Hepta-Dioxins				1.0061	10.026	37.64		0.000		NO	3069		1.13	2389
43	Total Tetra-Furans				0.9154	10.026	23.61		0.000		NO	770.8		0.168	798.4
44	1st Func. Penta-Furans				0.9594	10.026	27.09		0.000		NO	64.89		0.0421	65.02
45	Total Penta-Furans				0.9594	10.026	29.27		0.000		NO	861.4		0.173	862.8
46	Total Hexa-Furans				1.0920	10.026	33.56		0.000		NO	851.8		0.256	855.6

#	Name	Pred.RT	RT	mt Resp	nQ Resp	1*Ratio (Pred)	RA	n/y	EMPC	Conc
1	Total Tetra-Furans	23.61	19.54	6.515e3	1.115e4	0.770	0.76	NO	2.0786	2.0786
2	Total Tetra-Furans	23.61	20.03	1.746e4	2.217e4	0.770	0.79	NO	4.1891	4.1891
3	Total Tetra-Furans	23.61	20.62	1.261e5	1.650e5	0.770	0.76	NO	30.772	30.772
4	Total Tetra-Furans	23.61	21.13	4.773e4	6.212e4	0.770	0.77	NO	11.612	11.612
5	Total Tetra-Furans	23.61	21.53	2.305e5	2.974e5	0.770	0.77	NO	55.799	55.799
6	Total Tetra-Furans	23.61	21.69	7.933e4	1.028e5	0.770	0.77	NO	19.234	19.234
7	Total Tetra-Furans	23.61	22.14	8.461e3	1.094e4	0.770	0.77	NO	2.0506	2.0506
8	Total Tetra-Furans	23.61	22.34	4.085e4	5.258e4	0.770	0.78	NO	9.8732	9.8732
9	Total Tetra-Furans	23.61	22.82	7.088e3	9.802e3	0.770	0.72	NO	1.7854	1.7854

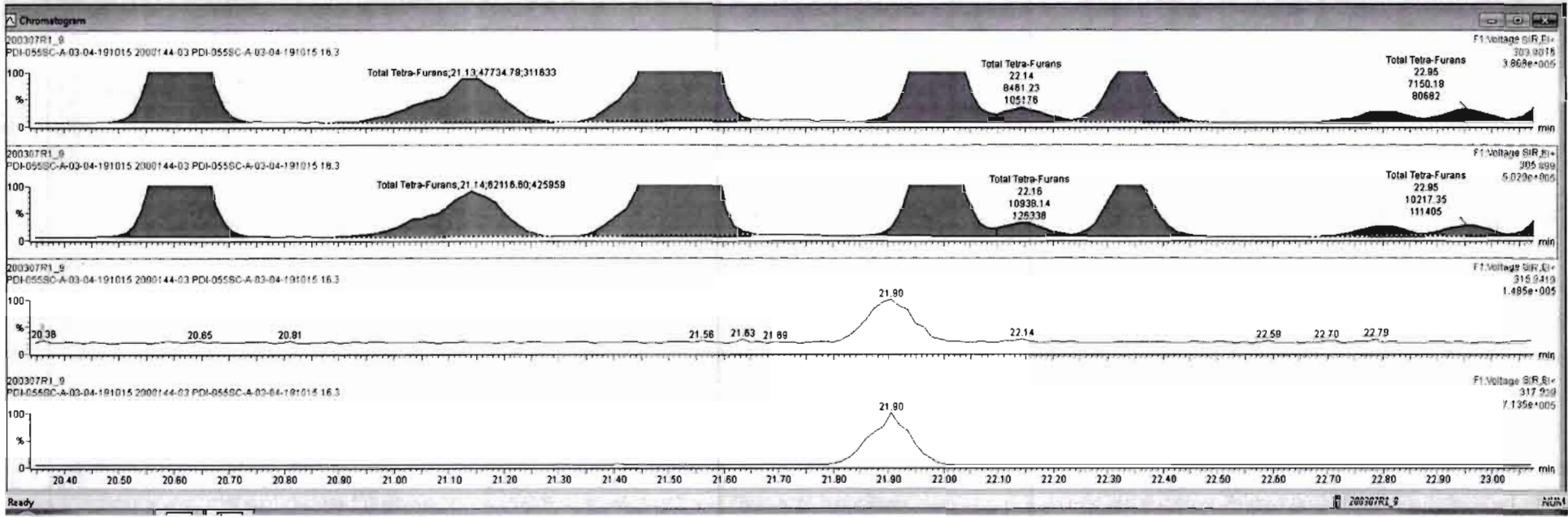


Targetlynx.XS - 200307R1-1.qid*

File Edit View Display Processing Window Help

#	Name	Resp	RA	n/y	RPF	wAcd	Pred.RT	RT	Pred.F	RRT	RRT Fail	Conc	%Rec	DL	EMPC
42	Total Hepta-Oxolins				1.0061	10.026	37.84		0.000		NO	3369		1.13	3369
43	Total Tetra-Furans				0.9154	10.026	23.81		0.000		NO	770.8		0.188	796.4
44	1st Func. Penta-Furans				0.9594	10.026	27.09		0.000		NO	84.86		0.0421	85.02
45	Total Penta-Furans				0.9594	10.026	29.27		0.000		NO	861.4		0.173	862.8
46	Total Hexa-Furans				1.0920	10.026	33.56		0.000		NO	851.8		0.258	855.6

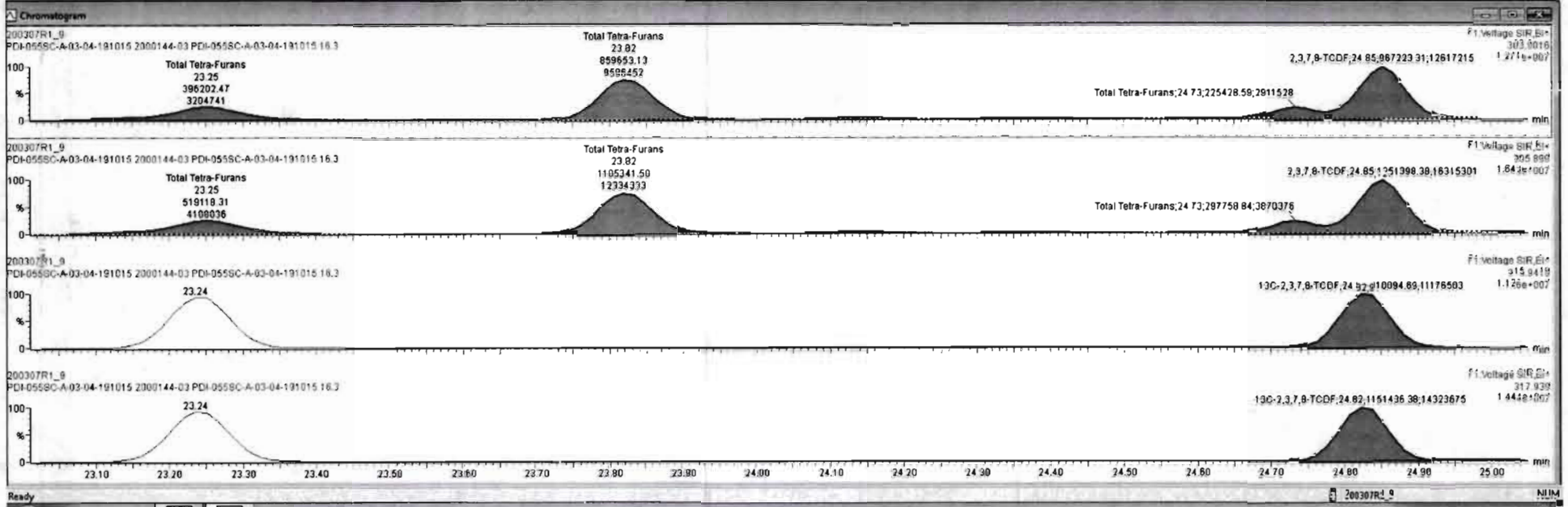
#	Name	Pred.RT	RT	Int Resp	n2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc
1	43 Total Tetra-Furans	23.61	19.54	6.515e3	1.115e4	0.770	0.76	NO	2.0786	2.0786
2	43 Total Tetra-Furans	23.61	20.03	1.748e4	2.217e4	0.770	0.79	NO	4.1881	4.1891
3	43 Total Tetra-Furans	23.61	20.62	1.261e5	1.650e5	0.770	0.76	NO	30.772	30.772
4	43 Total Tetra-Furans	23.61	21.13	4.773e4	6.212e4	0.770	0.77	NO	11.612	11.612
5	43 Total Tetra-Furans	23.61	21.53	2.305e5	2.974e5	0.770	0.77	NO	55.799	55.799
6	43 Total Tetra-Furans	23.61	21.99	7.933e4	1.028e5	0.770	0.77	NO	19.234	19.234
7	43 Total Tetra-Furans	23.61	22.14	8.461e3	1.094e4	0.770	0.77	NO	2.0506	2.0506
8	43 Total Tetra-Furans	23.61	22.34	4.085e4	5.258e4	0.770	0.78	NO	9.8732	9.8732
9	43 Total Tetra-Furans	23.61	22.82	7.088e3	9.802e3	0.770	0.72	NO	1.7854	1.7854



200307R1_9 - 2000144-03 PDI-0555C-A-03-04-191015 16.3 PDI-0555C-A-03-04-191015

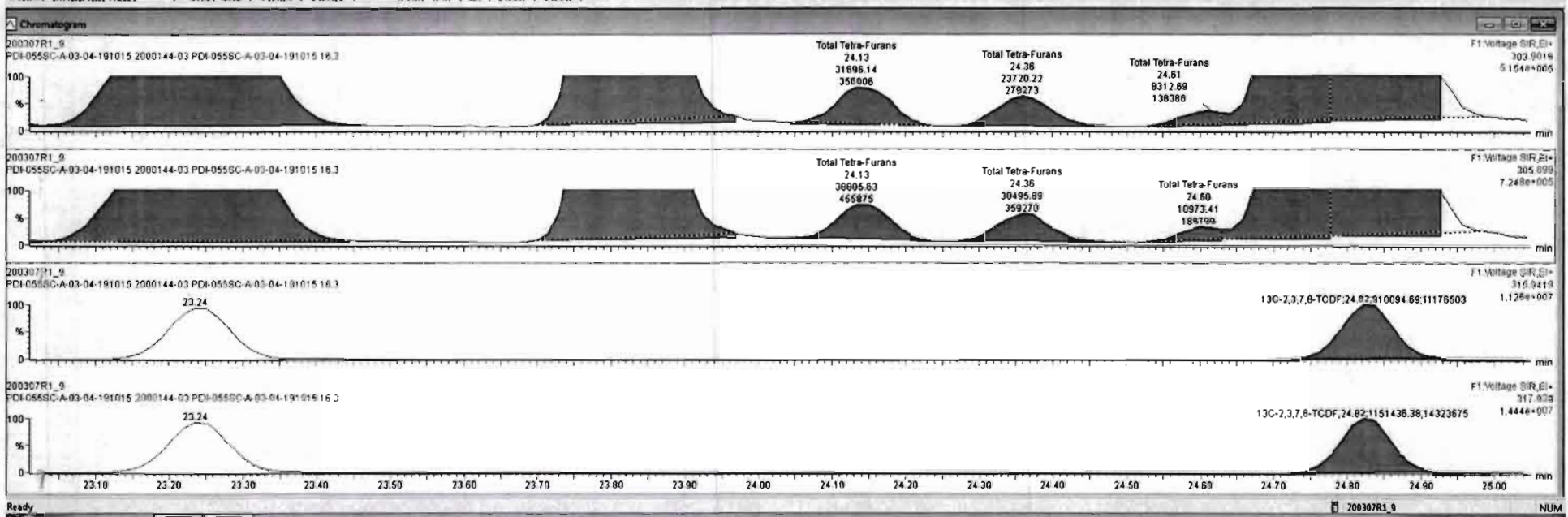
#	Name	Resp	RA	rvj	RRF	wtVol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
42	Total Hepta-Dioxins				1.0061	10.026	37.64		0.000		NO	3369		1.13	3369
43	Total Tetra-Furans				0.9154	10.026	23.81		0.000		NO	770.8		0.166	796.4
44	1st Func. Penta-Furans				0.9594	10.026	27.08		0.000		NO	64.96		0.0421	65.02
45	Total Penta-Furans				0.9594	10.026	29.27		0.000		NO	881.4		0.173	882.8
46	Total Hexa-Furans				1.0920	10.026	33.56		0.000		NO	851.6		0.256	855.5

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	rvj	EMPC	CoPC
1	43 Total Tetra-Furans	23.81	19.54	8.515e3	1.115e4	0.770	0.76	NO	2.0786	2.0786
2	43 Total Tetra-Furans	23.81	20.03	1.748e4	2.217e4	0.770	0.78	NO	4.1891	4.1891
3	43 Total Tetra-Furans	23.81	20.62	1.261e5	1.650e5	0.770	0.76	NO	30.772	30.772
4	43 Total Tetra-Furans	23.81	21.13	4.773e4	6.212e4	0.770	0.77	NO	11.612	11.612
5	43 Total Tetra-Furans	23.81	21.53	2.305e5	2.974e5	0.770	0.77	NO	55.799	55.799
6	43 Total Tetra-Furans	23.81	21.99	7.933e4	1.026e5	0.770	0.77	NO	19.234	19.234
7	43 Total Tetra-Furans	23.81	22.14	8.461e3	1.094e4	0.770	0.77	NO	2.0506	2.0506
8	43 Total Tetra-Furans	23.81	22.34	4.085e4	5.256e4	0.770	0.78	NO	9.8732	9.8732
9	43 Total Tetra-Furans	23.81	22.82	7.088e3	9.802e3	0.770	0.72	NO	1.7854	1.7854



#	Name	Resp	RA	n/y	R/R	wAval	Pred RT	RT	Pred R	R/R	R/R Fail	Conc.	%Rec	DL	EMPC
42	Total Hepta-Dioxins				1.0061	10.026	37.84		0.000		NO	3369		1.13	3369
43	Total Tetra-Furans				0.9154	10.026	23.81		0.000		NO	771.5		0.166	789.1
44	1st Func. Penta-Furans				0.9594	10.026	27.08		0.000		NO	64.98		0.0421	65.02
45	Total Penta-Furans				0.9594	10.026	29.27		0.000		NO	861.4		0.173	862.8
46	Total Hexa-Furans				1.0920	10.026	33.56		0.000		NO	851.6		0.256	855.6

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	Total Tetra-Furans	23.61	19.54	6.515e3	1.115e4	0.770	0.76	NO	2.0786	2.0786
2	Total Tetra-Furans	23.61	20.03	1.748e4	2.217e4	0.770	0.79	NO	4.1891	4.1891
3	Total Tetra-Furans	23.61	20.62	1.261e5	1.650e5	0.770	0.76	NO	30.772	30.772
4	Total Tetra-Furans	23.61	21.13	4.773e4	6.212e4	0.770	0.77	NO	11.612	11.612
5	Total Tetra-Furans	23.61	21.53	2.305e5	2.974e5	0.770	0.77	NO	55.789	55.798
6	Total Tetra-Furans	23.61	21.89	7.933e4	1.026e5	0.770	0.77	NO	19.234	19.234
7	Total Tetra-Furans	23.61	22.14	8.461e3	1.084e4	0.770	0.77	NO	2.0506	2.0506
8	Total Tetra-Furans	23.61	22.34	4.085e4	5.255e4	0.770	0.78	NO	9.8732	9.8732
9	Total Tetra-Furans	23.61	22.82	7.088e3	8.802e3	0.770	0.72	NO	1.7854	1.7854

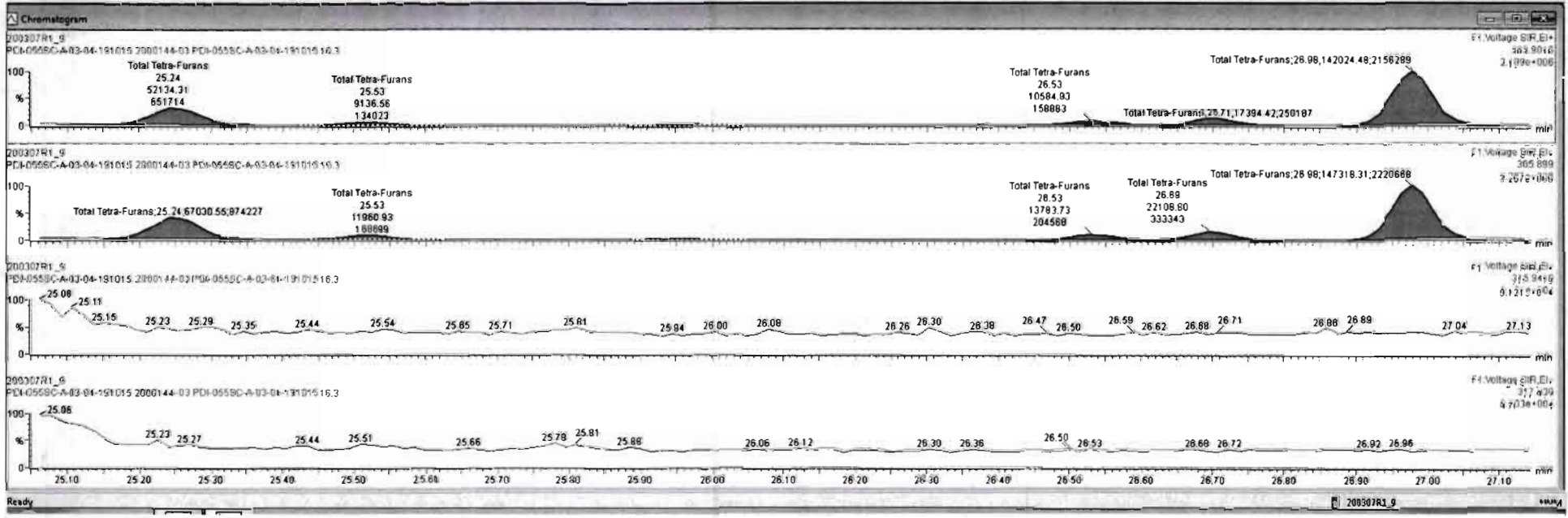


TargetLynxXS - 200307R1_9.qld*

File Edit View Display Processing Window Help

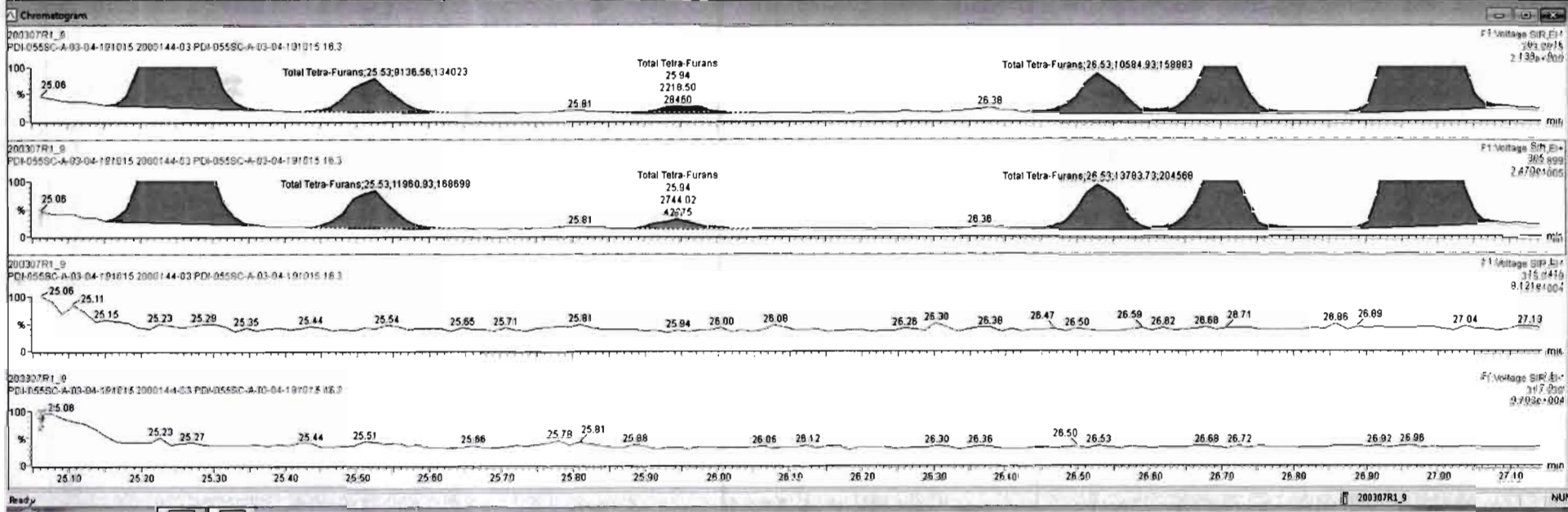
#	Name	Resp	RA	rly	RRF	wAval	Pred RT	RT	Pred R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
42	Total Hepta-Dioxins				1.0061	10.026	37.64		0.000		NO	3309		1.13	3369
43	Total Tetra-Furans				0.9154	10.026	23.91		0.000		NO	771.8		0.166	798.1
44	1st Func. Penta-Furans				0.9594	10.026	27.09		0.000		NO	64.96		0.0421	65.02
45	Total Penta-Furans				0.9594	10.026	29.27		0.000		NO	861.4		0.173	862.8
46	Total Hexa-Furans				1.0920	10.026	33.56		0.000		NO	851.8		0.256	855.8

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	rly	EMPC	Conc
1	43 Total Tetra-Furans	23.61	19.54	0.51563	1.11564	0.770	0.76	NO	2.0798	2.0796
2	43 Total Tetra-Furans	23.61	20.03	1.74864	2.21764	0.770	0.79	NO	4.1891	4.1891
3	43 Total Tetra-Furans	23.61	20.62	1.26145	1.65065	0.770	0.76	NO	30.772	30.772
4	43 Total Tetra-Furans	23.61	21.13	4.77364	6.21264	0.770	0.77	NO	11.612	11.612
5	43 Total Tetra-Furans	23.61	21.53	2.30565	2.97465	0.770	0.77	NO	55.799	55.799
6	43 Total Tetra-Furans	23.61	21.89	7.93364	1.02865	0.770	0.77	NO	19.234	19.234
7	43 Total Tetra-Furans	23.61	22.14	8.46163	1.09464	0.770	0.77	NO	2.0506	2.0506
8	43 Total Tetra-Furans	23.61	22.34	4.08564	5.25864	0.770	0.78	NO	9.8732	9.8732
9	43 Total Tetra-Furans	23.61	22.82	7.08863	9.80263	0.770	0.72	NO	1.7854	1.7854



#	Name	Resp	RA	n/y	RPF	wt/val	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
42	Total Hepto-Dioxins				1.0061	10.026	37.64		0.000		NO	3369		1.13	3369
43	Total Tetra-Furans				0.9154	10.026	23.61		0.000		NO	771.6		5.166	776.1
44	1st Func. Penta-Furans				0.9594	10.026	27.09		0.000		NO	64.96		0.0421	65.02
45	Total Penta-Furans				0.9594	10.026	29.27		0.000		NO	661.4		0.173	662.8
46	Total Hexa-Furans				1.0920	10.026	33.56		0.000		NO	651.6		0.256	655.6

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc
1	Total Tetra-Furans	23.61	19.54	8.515e3	1.115e4	0.770	0.76	NO	2.0786	2.0786
2	Total Tetra-Furans	23.61	20.03	1.746e4	2.217e4	0.770	0.79	NO	4.1861	4.1861
3	Total Tetra-Furans	23.61	20.62	1.261e5	1.650e5	0.770	0.76	NO	30.772	30.772
4	Total Tetra-Furans	23.61	21.13	4.773e4	6.212e4	0.770	0.77	NO	11.612	11.612
5	Total Tetra-Furans	23.61	21.53	2.305e5	2.974e5	0.770	0.77	NO	55.799	55.799
6	Total Tetra-Furans	23.61	21.89	7.933e4	1.029e5	0.770	0.77	NO	19.234	19.234
7	Total Tetra-Furans	23.61	22.14	8.461e3	1.094e4	0.770	0.77	NO	2.0506	2.0506
8	Total Tetra-Furans	23.61	22.34	4.085e4	5.258e4	0.770	0.78	NO	9.8732	9.8732
9	Total Tetra-Furans	23.61	22.62	7.096e3	9.802e3	0.770	0.72	NO	1.7854	1.7854



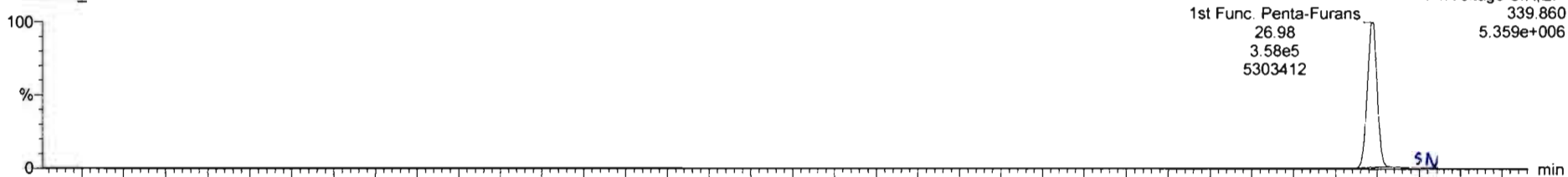
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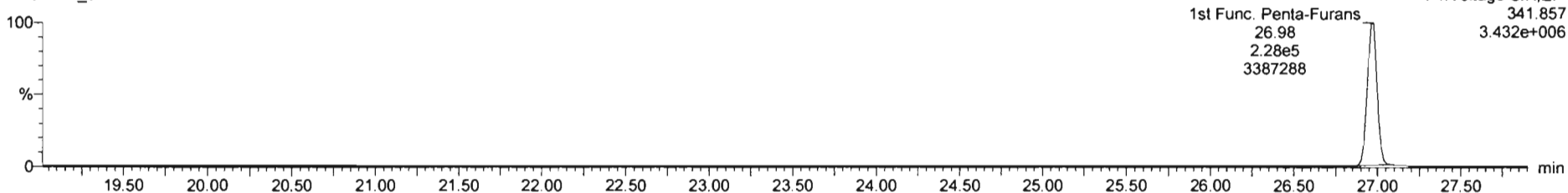
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1st Func. Penta-Furans

200307R1_9

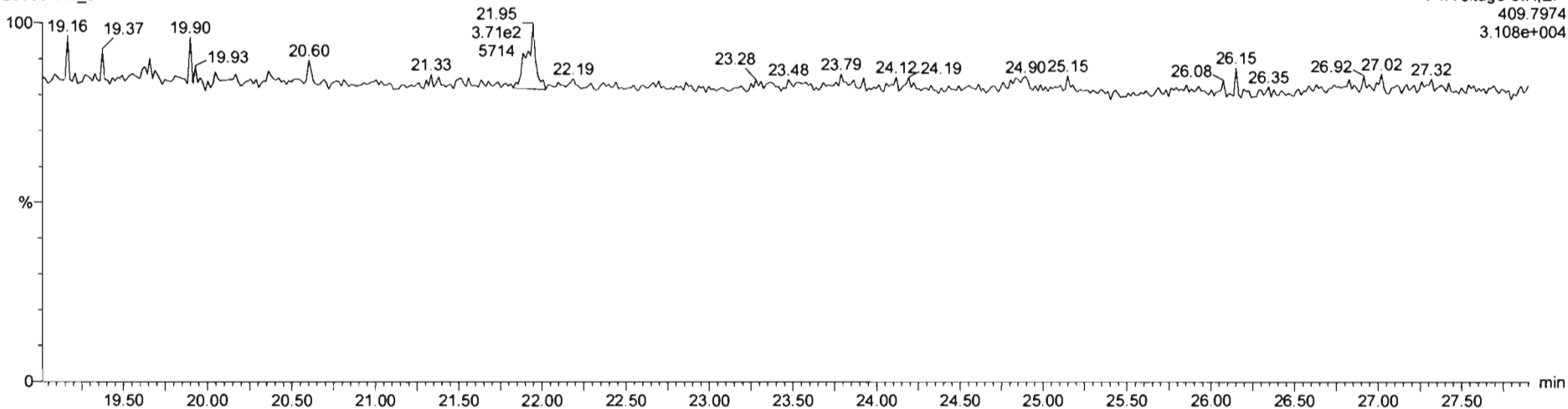


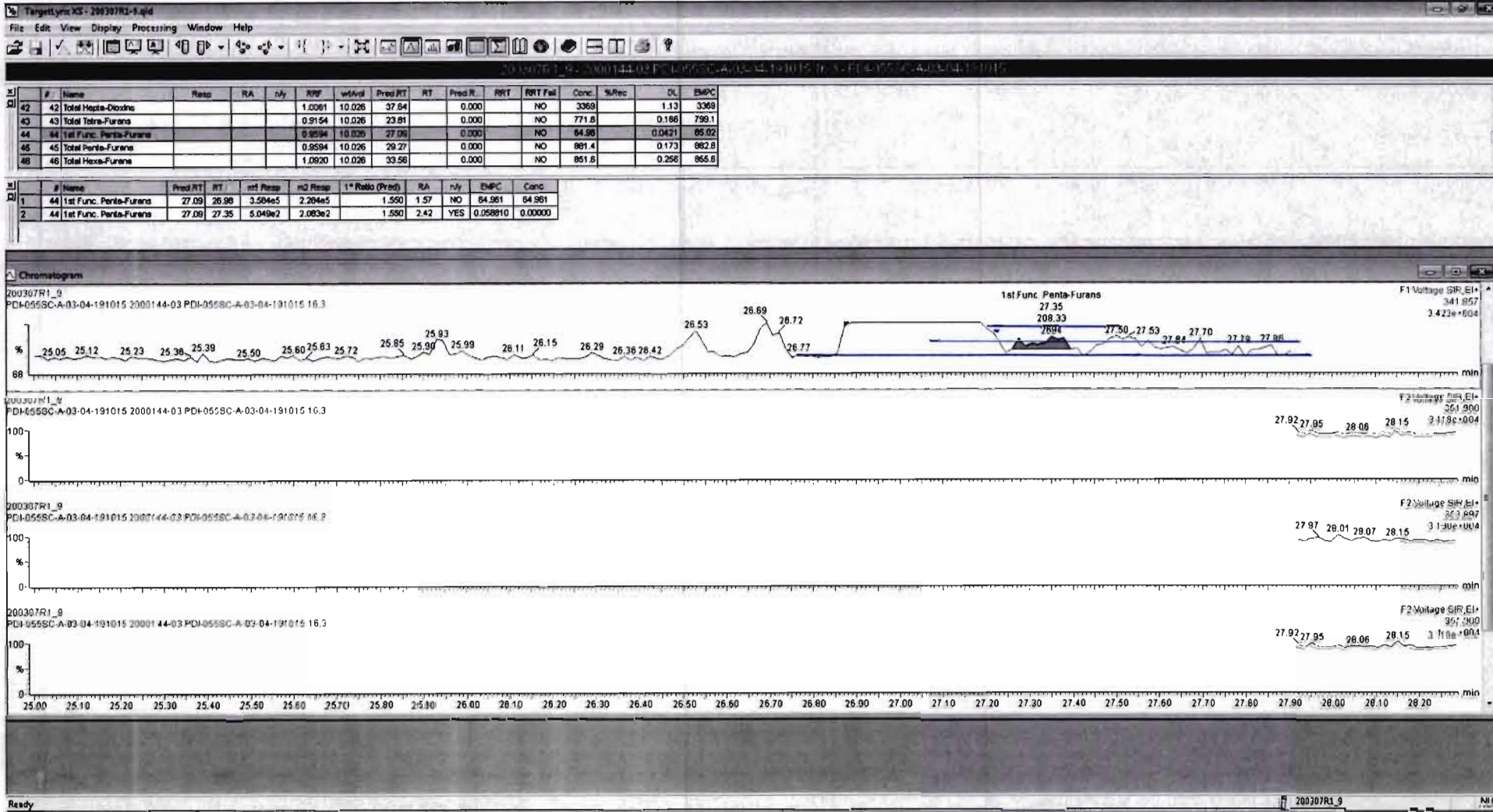
200307R1_9



DPE6

200307R1_9





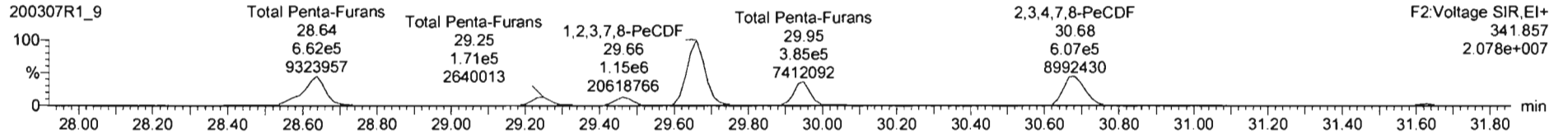
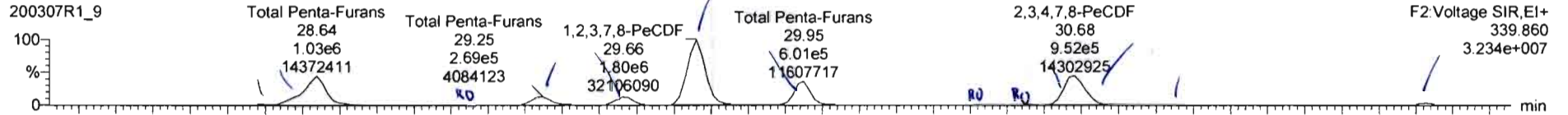
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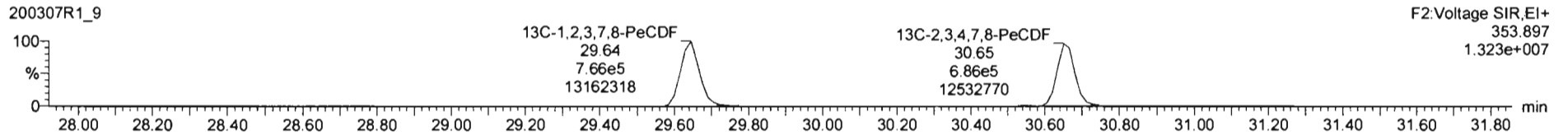
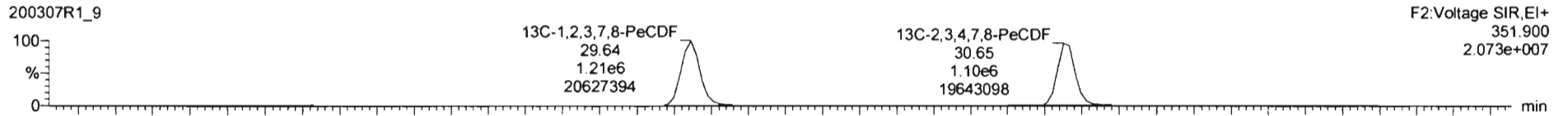
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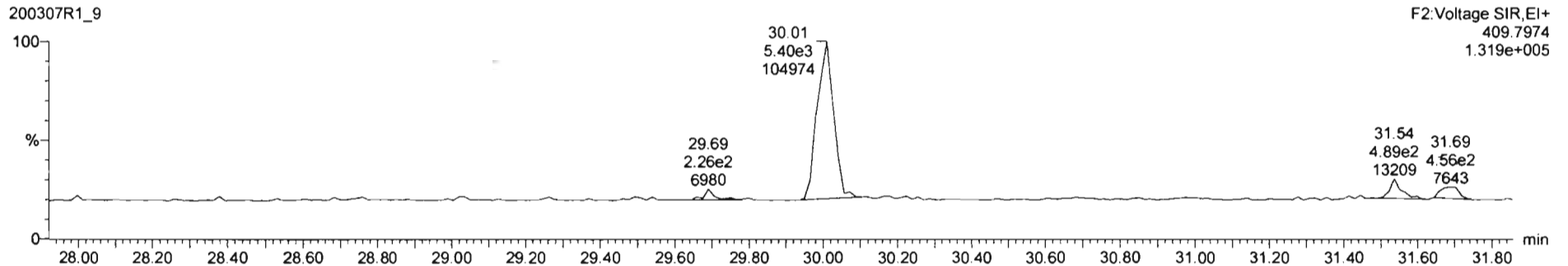
1,2,3,7,8-PeCDF



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



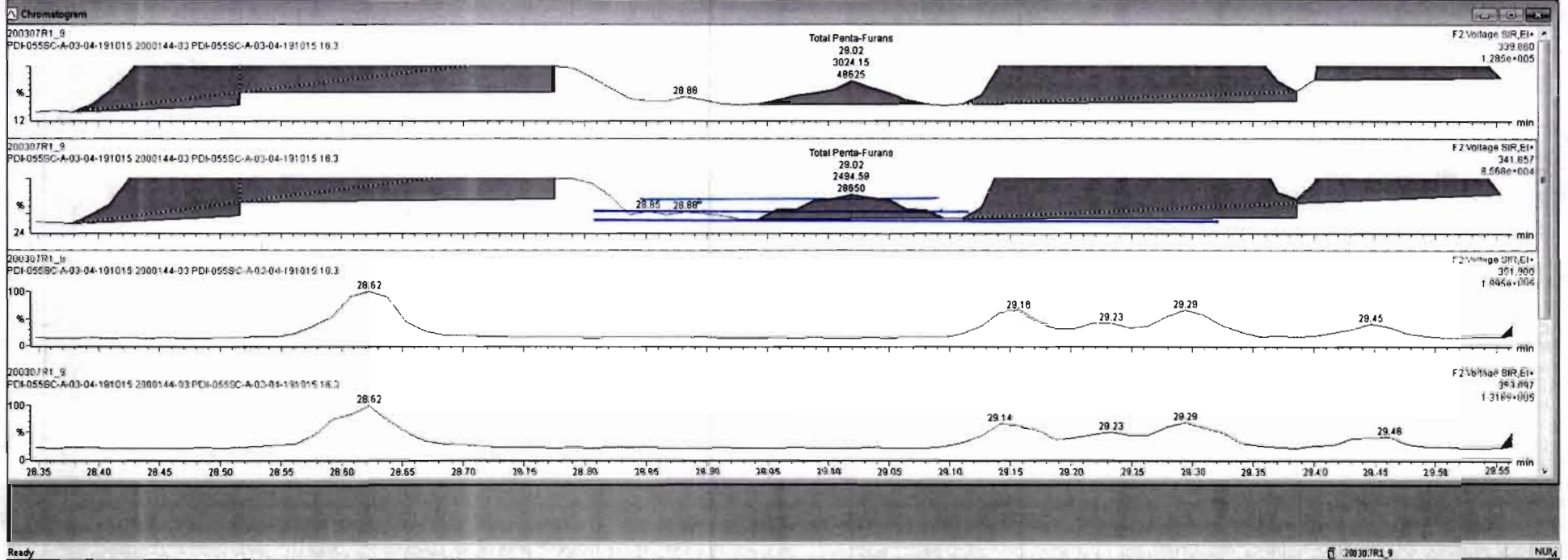
DPE2



200307R1_9 - 2000144-03 PDI-055SC-A-03-04-191015 18.3 - FID-055SC-A-03-04-191015

#	Name	Resp	RA	n/y	RFP	wtVol	Pred RT	RT	Pred R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
42	Total Hepta-Dioxins				1.0061	10.026	37.84		0.000		NO	3369		1.13	3369
43	Total Tetra-Furans				0.9154	10.026	23.61		0.000		NO	771.8		0.166	789.1
44	1st Func. Penta-Furans				0.9594	10.026	27.09		0.000		NO	64.96		0.0421	64.96
45	Total Penta-Furans				0.8594	10.026	28.27		0.000		NO	864.0		0.173	865.5
46	Total Hexa-Furans				1.0920	10.026	33.56		0.000		NO	851.8		0.258	855.6

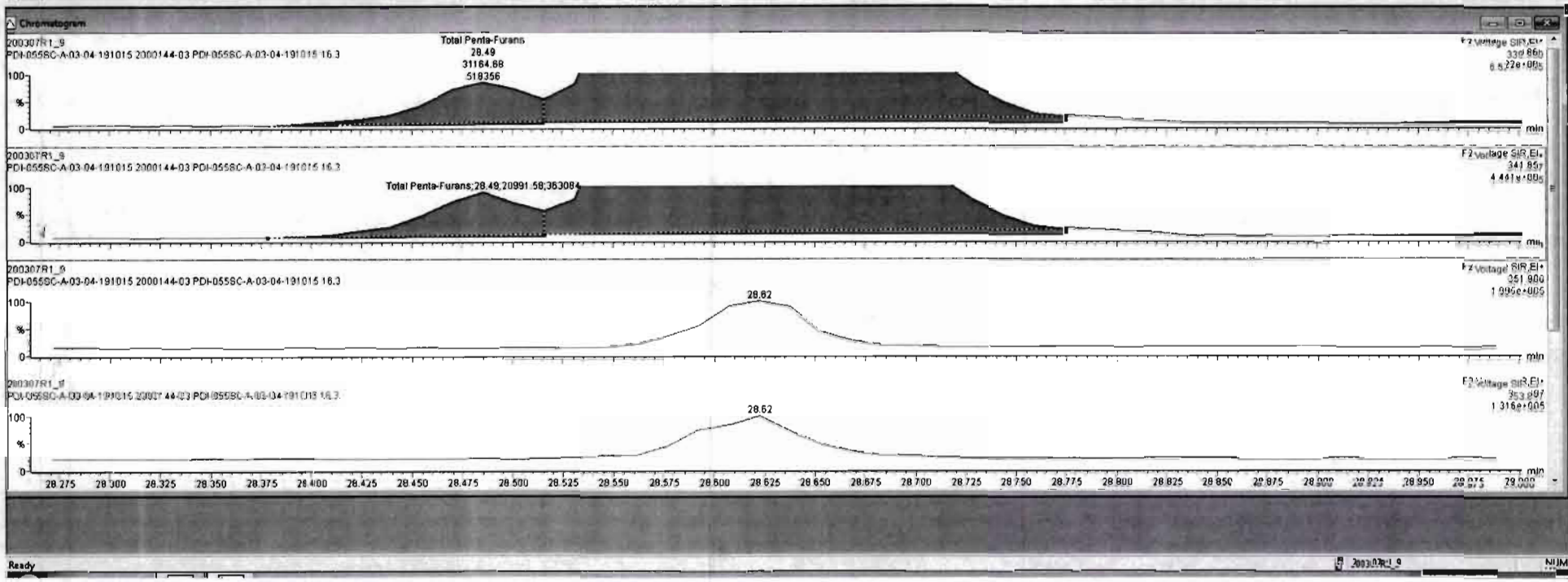
#	Name	Pred RT	RT	mt Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc
1	45 Total Penta-Furans	29.27	28.49	3.118e4	2.098e4	1.550	1.48	NO	5.7739	5.7738
2	45 Total Penta-Furans	29.27	28.84	1.038e6	6.674e5	1.550	1.55	NO	188.55	188.55
3	45 Total Penta-Furans	29.27	29.02	3.024e3	2.496e3	1.550	1.21	YES	0.55077	0.00000
4	45 Total Penta-Furans	29.27	28.25	2.715e5	1.733e5	1.550	1.57	NO	49.240	49.240
5	45 Total Penta-Furans	29.27	28.46	2.176e5	1.421e5	1.550	1.53	NO	39.819	38.819



200307R1_9 2000144-03 PDI-0555C-A-03-04-191015 16.3 PDI-0555C-A-03-04-191015

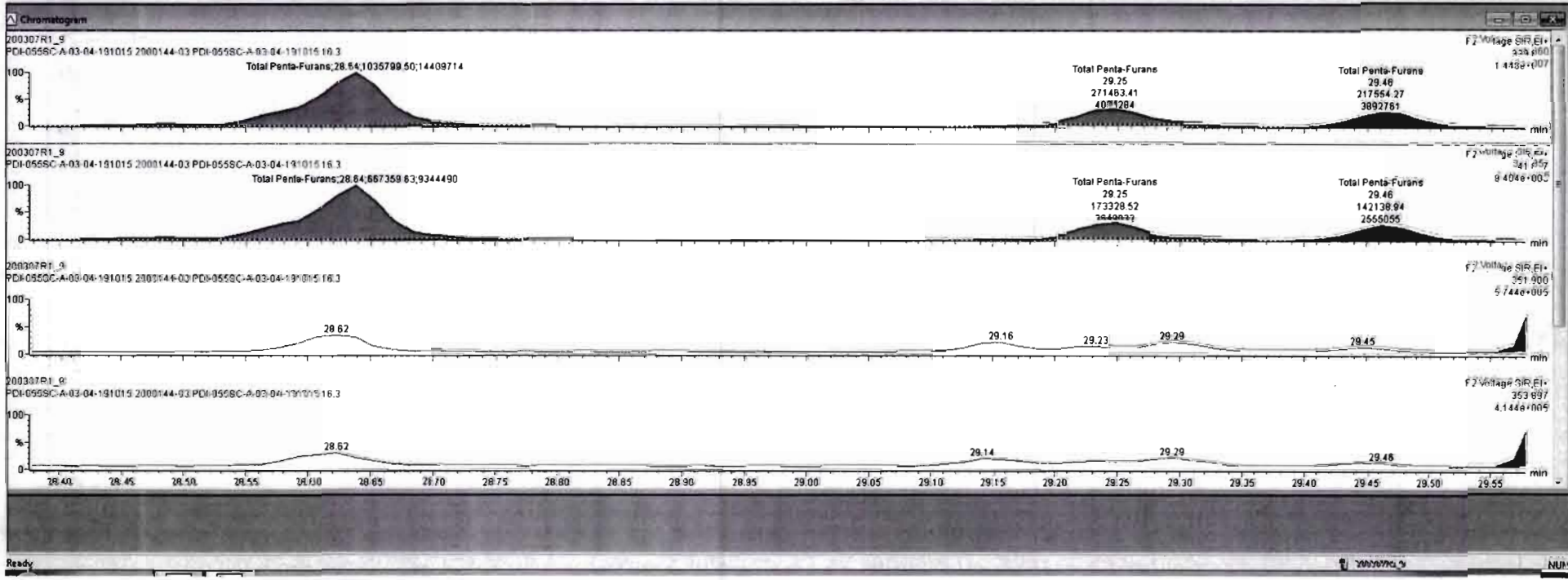
#	Name	Resp	RA	nly	R/R	wAval	Pred_RT	RT	Pred_R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
42	Total Hepta-Dioxins				1.0061	10.026	37.64		0.000		NO	3369		1.13	3369
43	Total Tetra-Furans				0.9154	10.026	23.61		0.000		NO	771.6		0.166	799.1
44	1st Func. Penta-Furans				0.9594	10.026	27.09		0.000		NO	64.96		0.0421	64.96
45	Total Penta-Furans				0.9594	10.026	28.27		0.000		NO	896.6		0.173	988.1
46	Total Hexa-Furans				1.0920	10.026	33.56		0.000		NO	861.6		0.250	956.6

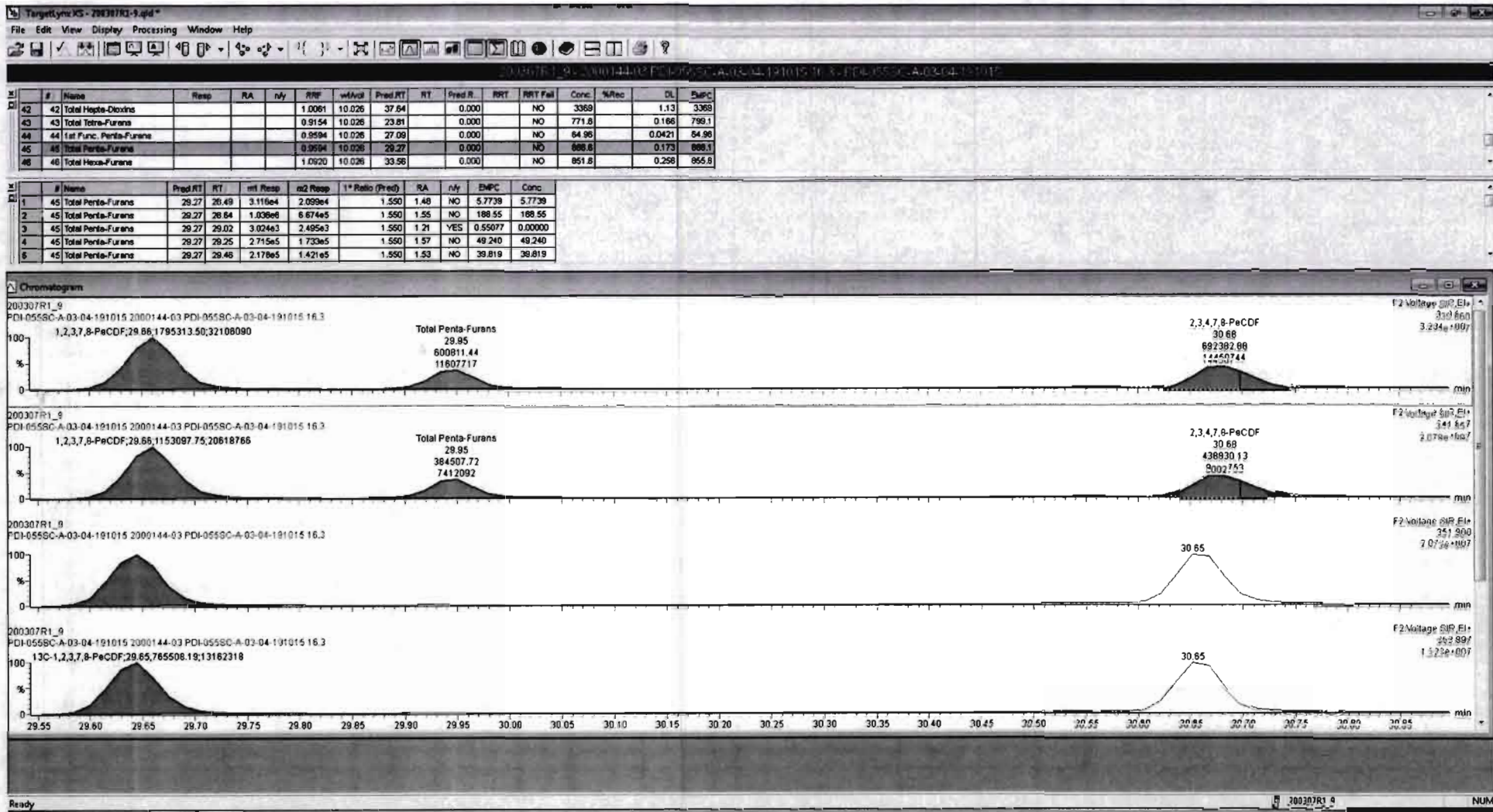
#	Name	Pred_RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nly	EMPC	Conc.
1	45 Total Penta-Furans	28.27	28.49	3.116e4	2.099e4	1.550	1.46	NO	5.7739	5.7739
2	45 Total Penta-Furans	28.27	28.64	1.036e6	6.674e5	1.550	1.55	NO	188.55	188.55
3	45 Total Penta-Furans	28.27	29.02	3.024e3	2.495e3	1.550	1.21	YES	0.55077	0.00000
4	45 Total Penta-Furans	28.27	29.25	2.715e5	1.733e5	1.550	1.57	NO	49.240	49.240
5	45 Total Penta-Furans	28.27	29.48	2.176e5	1.421e5	1.550	1.53	NO	39.819	39.819

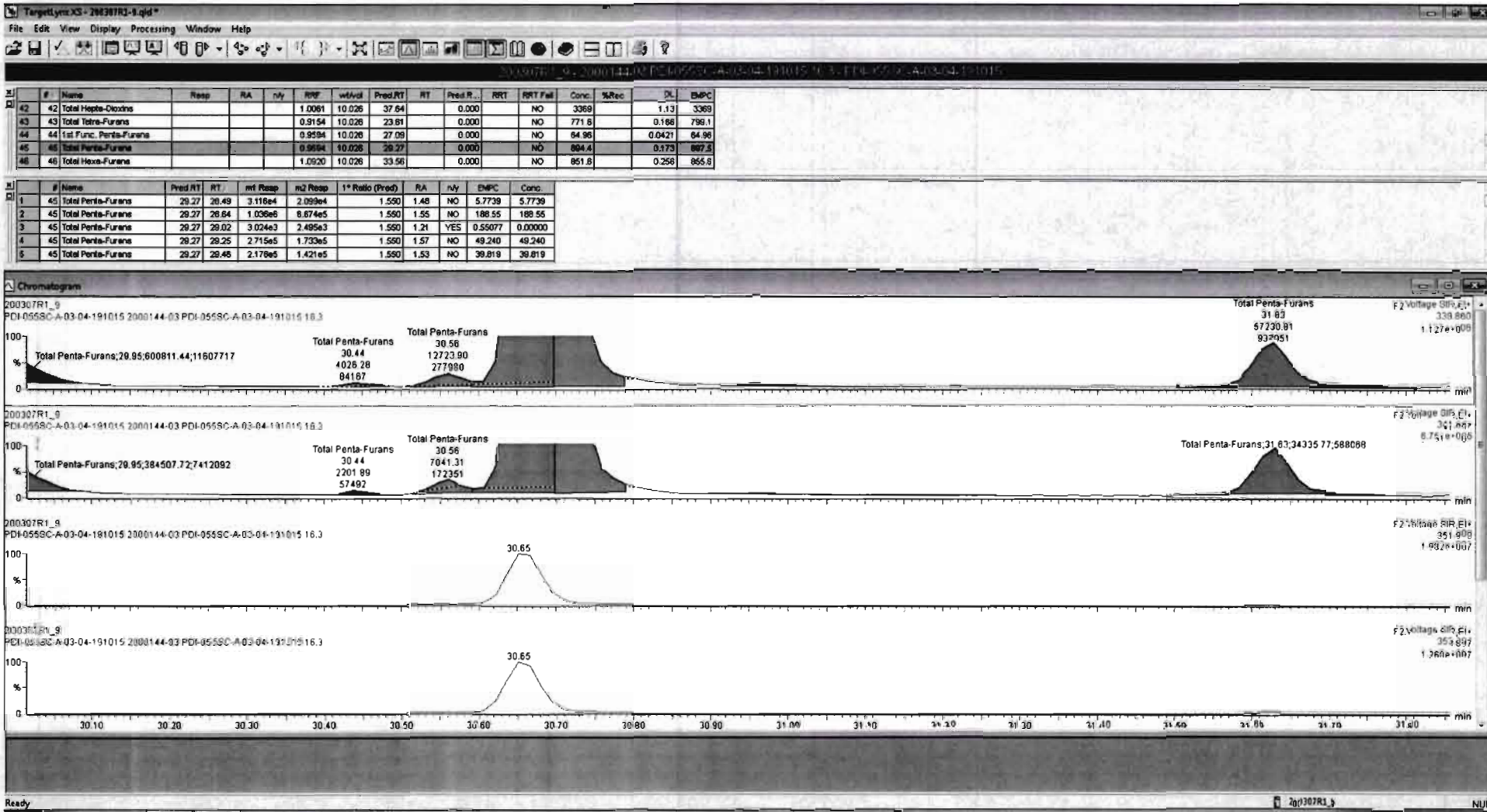


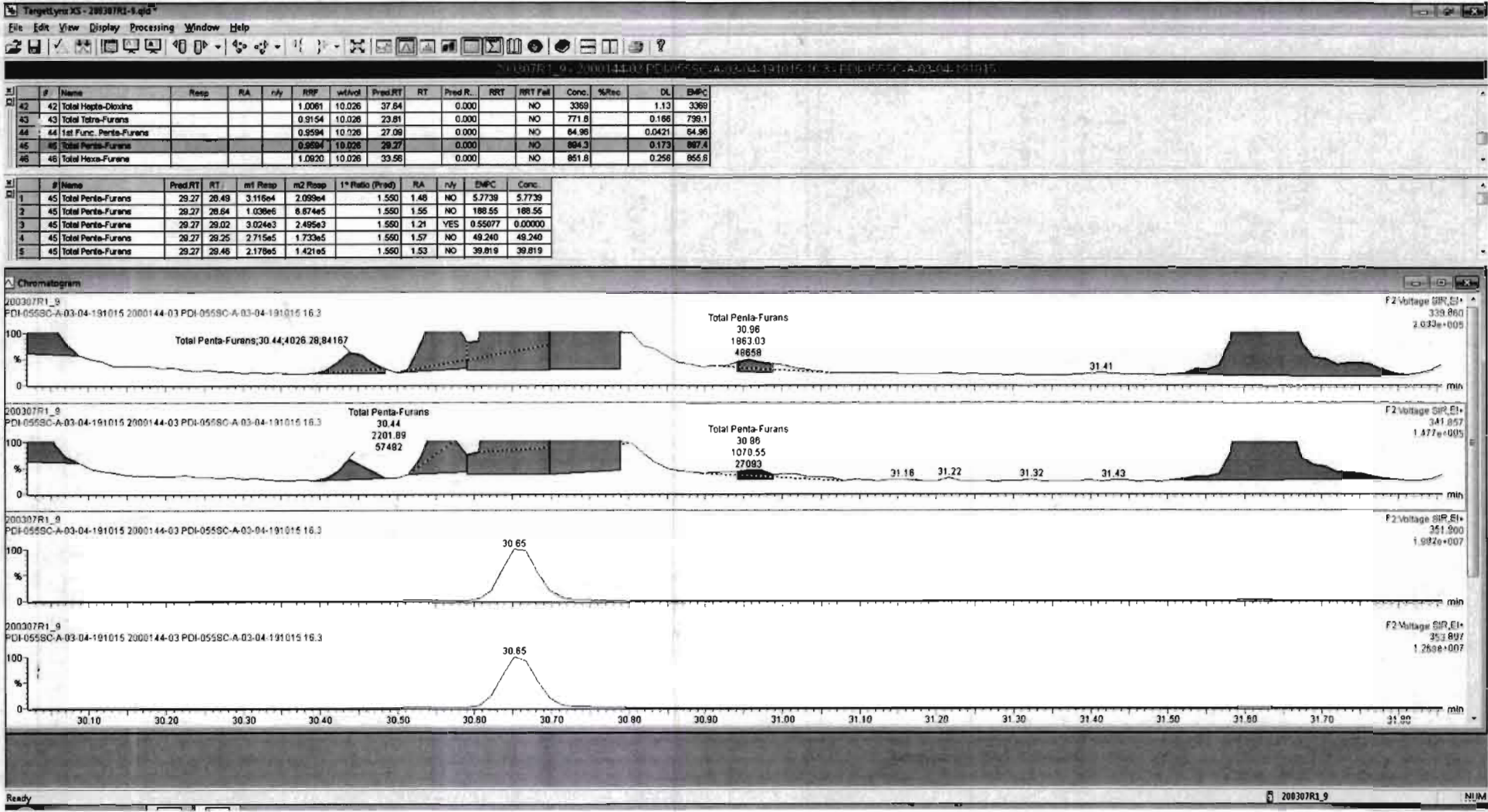
#	Name	Resp	RA	n/y	RPF	wVol	Pred RT	RT	Pred R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
42	Total Hepta-Dioxins				1.0761	10.026	37.64		0.000		NO	3369		1.13	3369
43	Total Tetra-Furans				0.9154	10.026	23.61		0.000		NO	771.6		0.166	799.1
44	1st Func. Penta-Furans				0.9594	10.026	27.08		0.000		NO	64.96		0.0421	64.96
45	Total Penta-Furans				0.9694	10.026	28.27		0.000		NO	866.8		0.173	866.8
46	Total Hexa-Furans				1.0920	13.026	33.56		0.000		NO	851.6		0.268	855.6

#	Name	Pred RT	RT	1st Resp	1st Rsp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	45 Total Penta-Furans	29.27	29.49	3.116e4	2.009e4	1.550	1.66	NO	5.7739	5.7739
2	45 Total Penta-Furans	29.27	29.64	1.038e6	6.674e5	1.550	1.55	NO	188.55	188.55
3	45 Total Penta-Furans	29.27	29.02	3.024e3	2.495e3	1.550	1.21	YES	0.55077	0.00000
4	45 Total Penta-Furans	29.27	29.25	2.715e5	1.733e5	1.550	1.57	NO	49.240	49.240
5	45 Total Penta-Furans	29.27	29.46	2.178e5	1.421e5	1.550	1.53	NO	39.819	39.819









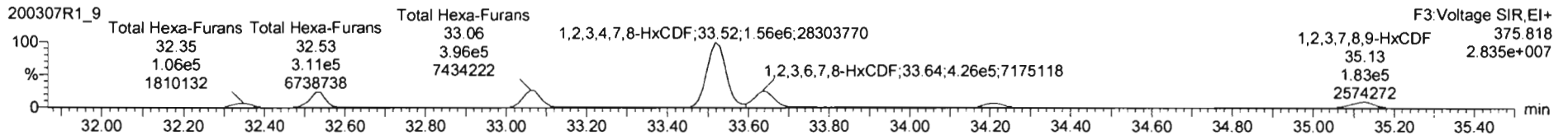
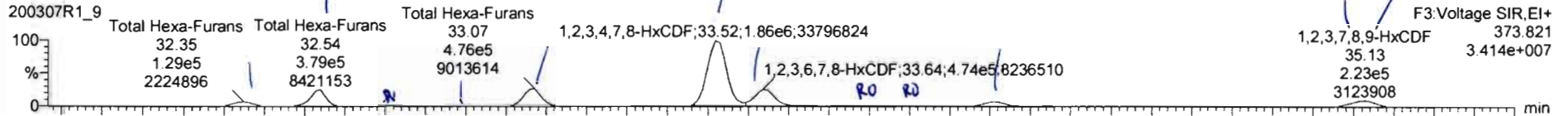
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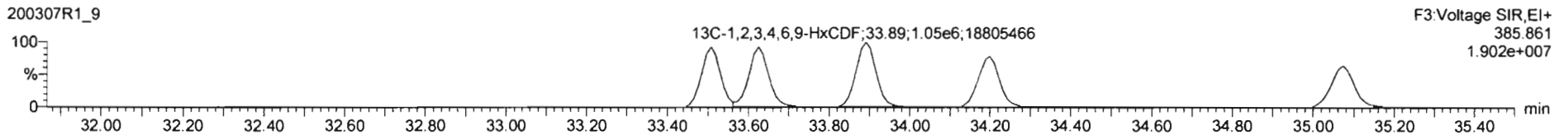
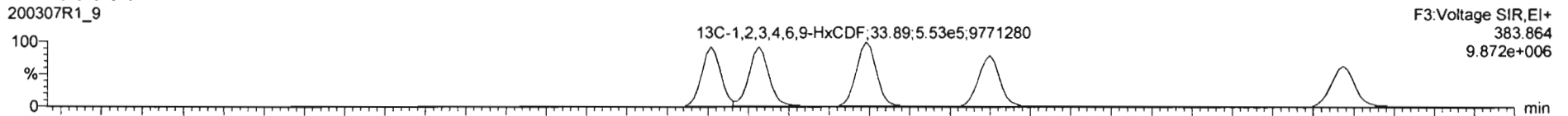
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Name: 200307R1_9, Date: 07-Mar-2020, Time: 16:03:27, ID: 2000144-03 PDI-055SC-A-03-04-191015 16.3, Description: PDI-055SC-A-03-04-191015

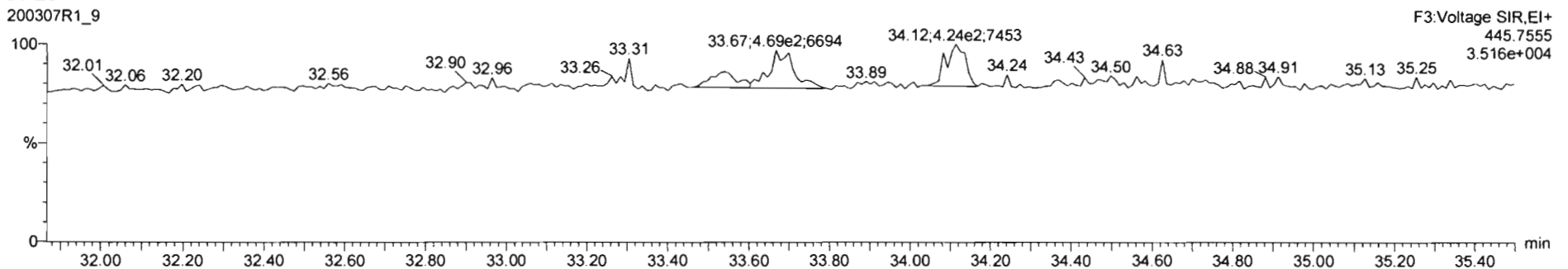
1,2,3,4,7,8-HxCDF



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

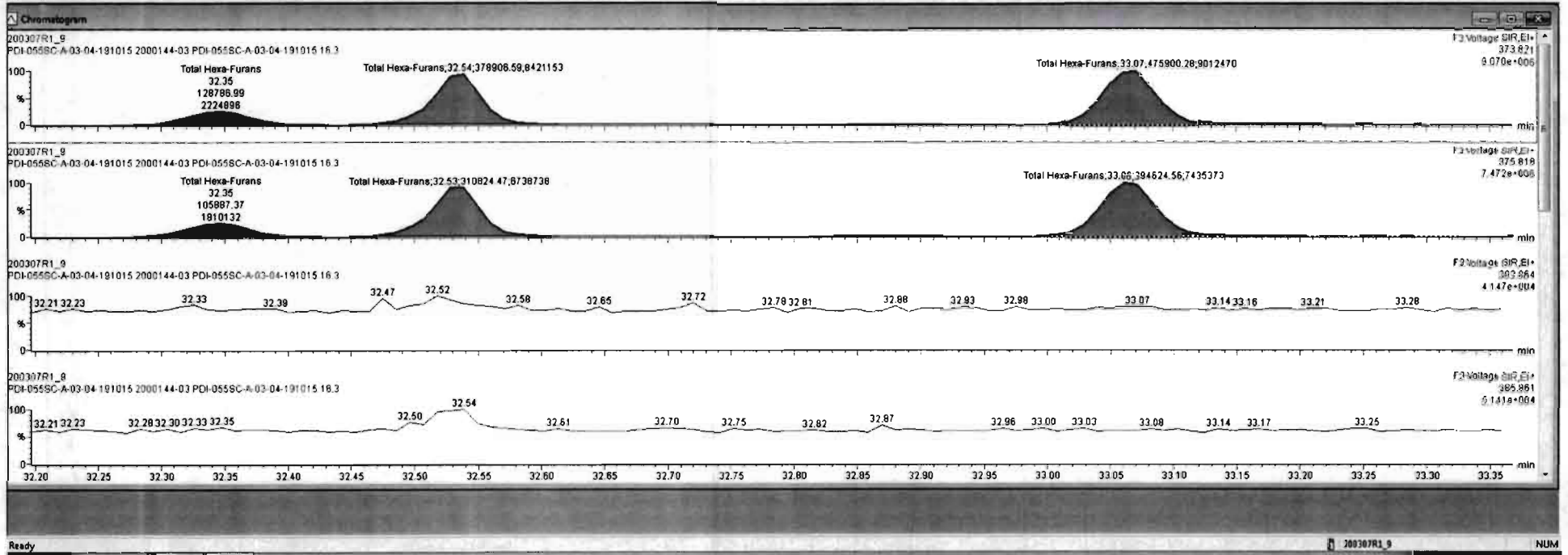


DPE3



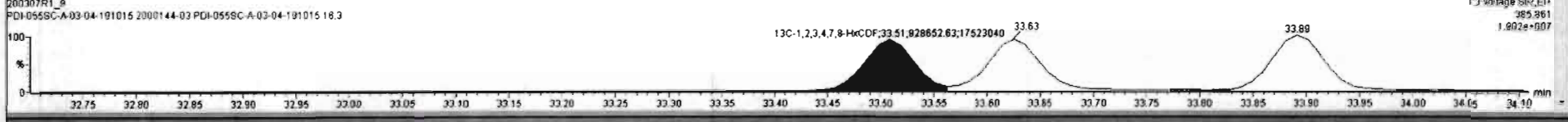
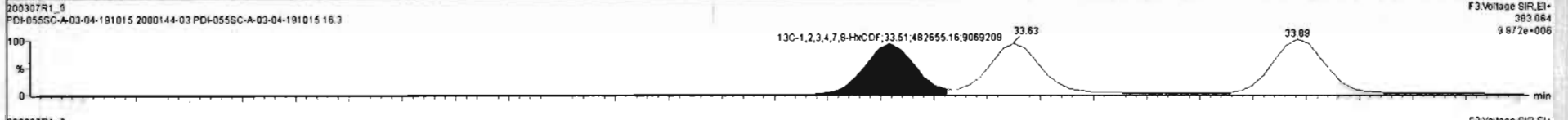
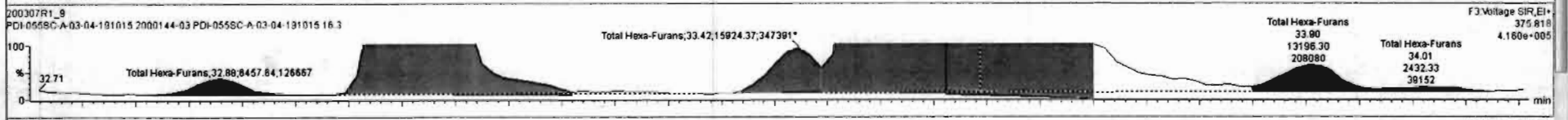
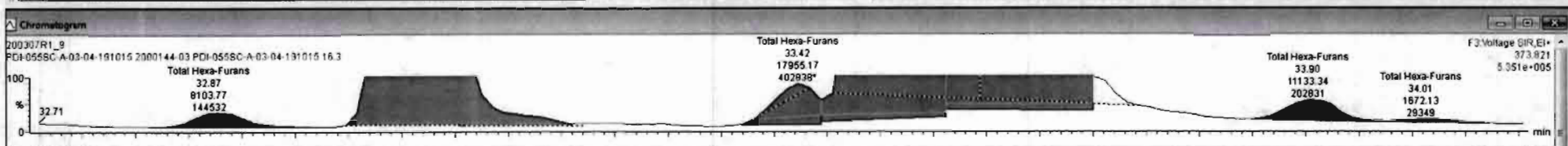
#	Name	Resp	RA	n/y	RPF	wtVal	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	SupC
42	Total Hepta-Dioxins				1.0061	10.026	37.84		0.000		NO	3369		1.13	3369
43	Total Tetra-Furans				0.9154	10.026	23.61		0.000		NO	771.6		0.166	799.1
44	1st Func. Penta-Furans				0.9594	10.026	27.09		0.000		NO	64.96		0.0421	64.96
45	Total Penta-Furans				0.9594	10.026	29.27		0.000		NO	894.3		0.173	897.4
46	Total Hexa-Furans				1.0920	10.026	33.58		0.000		NO	801.9		0.258	865.8

#	Name	Pred.RT	RT	mI Resp	mZ Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	Total Hexa-Furans	33.58	32.35	1.269e5	1.059e5	1.240	1.22	NO	31.198	31.198
2	Total Hexa-Furans	33.58	32.54	3.789e5	3.109e5	1.240	1.22	NO	91.695	91.695
3	Total Hexa-Furans	33.58	32.87	8.104e3	6.459e3	1.240	1.25	NO	1.9358	1.9358
4	Total Hexa-Furans	33.58	33.07	4.759e5	3.948e5	1.240	1.21	NO	115.73	115.73
5	Total Hexa-Furans	33.58	33.42	3.397e3	1.800e4	1.240	0.21	YES	0.81687	0.00000
6	1,1,2,3,4,7,8-HxCDF	33.51	33.52	1.773e6	1.484e6	1.240	1.18	NO	443.58	443.58



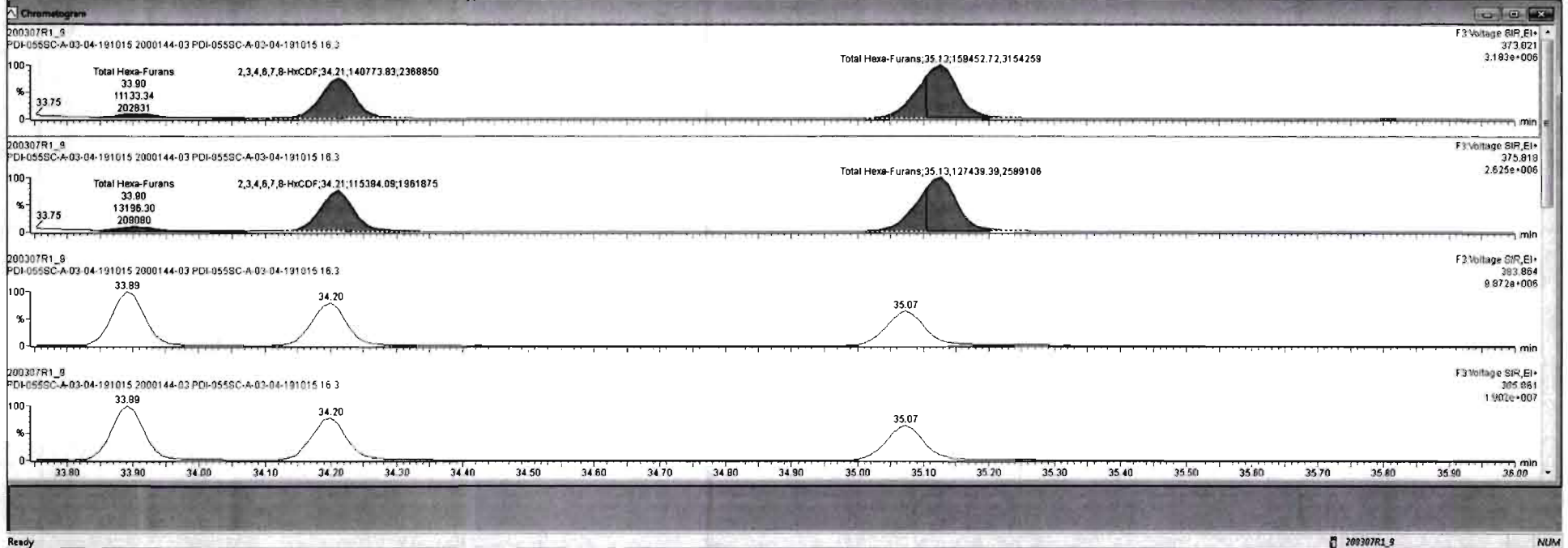
#	Name	Resp	RA	n/y	R/R	wAve	Pred RT	RT	Pred R	R/R	R/R T Fail	Conc	%Rec	DL	EMPC
42	Total Hepta-Dioxins				1.0061	10.026	37.94		0.000		NO	3369		1.13	3369
43	Total Tetra-Furans				0.9154	10.026	23.81		0.000		NO	771.6		0.166	799.1
44	1st Func. Penta-Furans				0.9594	10.026	27.09		0.000		NO	64.96		0.0421	84.96
45	Total Penta-Furans				0.9594	10.026	29.27		0.000		NO	894.3		0.173	997.4
46	Total Hexa-Furans				1.0620	10.026	33.96		0.000		NO	915.9		0.258	922.0

#	Name	Pred RT	RT	int Resp	rs2 Resp	1* Ratio (Prod)	RA	n/y	EMPC	Conc
1	46 Total Hexa-Furans	33.56	32.35	1.260e5	1.059e5	1.240	1.22	NO	31.198	31.198
2	46 Total Hexa-Furans	33.56	32.54	3.789e5	3.108e5	1.240	1.22	NO	91.695	91.695
3	46 Total Hexa-Furans	33.56	32.87	8.104e3	6.458e3	1.240	1.25	NO	1.9358	1.9358
4	46 Total Hexa-Furans	33.56	33.07	4.759e5	3.948e5	1.240	1.21	NO	115.73	115.73
5	46 Total Hexa-Furans	33.56	33.42	1.301e4	1.609e4	1.240	0.81	YES	3.1247	0.00000
8	11 1,2,3,4,7,8-HxCDF	33.51	33.52	1.784e6	1.484e6	1.240	1.20	NO	445.06	445.06



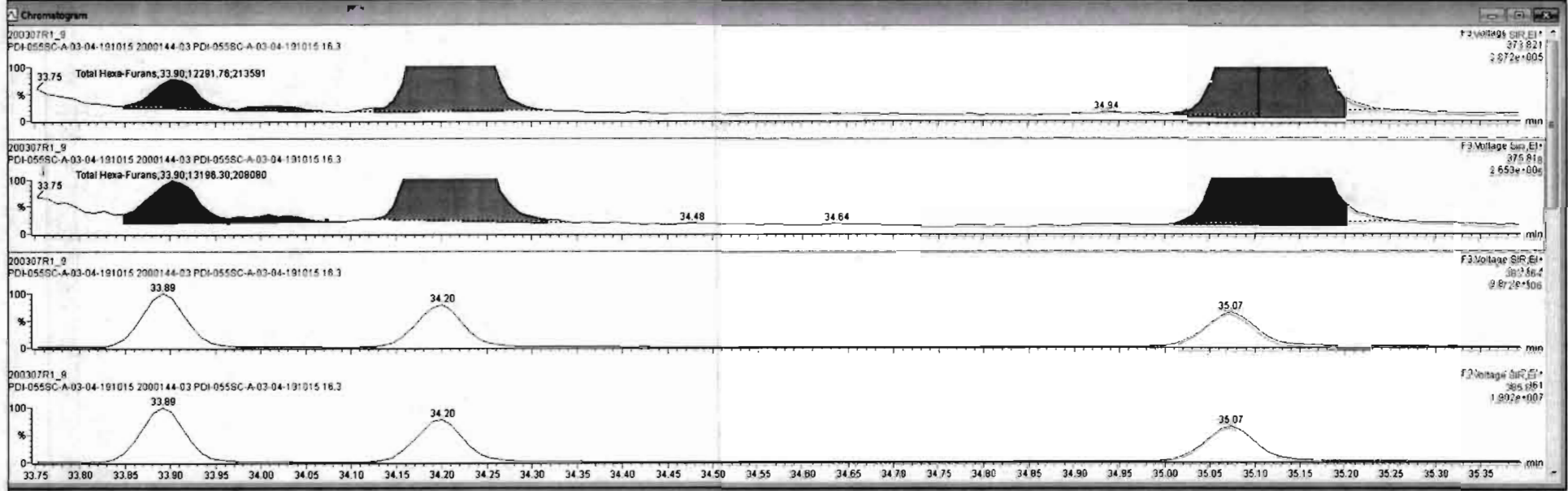
#	Name	Resp	RA	n/y	RRP	wtVol	Pred RT	RT	Pred R.	RRT	RRT Fail	Conc	%Rec	DL	EMPC
42	Total Hepta-Dioxin				1.0061	10.026	37.84		0.000		NO	3368		1.13	3369
43	Total Tetra-Furans				0.9154	10.026	23.81		0.000		NO	771.6		0.166	798.1
44	1st Func. Penta-Furans				0.9594	10.026	27.08		0.000		NO	64.96		0.0421	64.96
45	Total Penta-Furans				0.9594	10.026	28.27		0.000		NO	894.3		0.173	907.4
46	Total Hexa-Furans				1.0020	10.026	33.58		0.000		NO	915.9		0.256	922.0

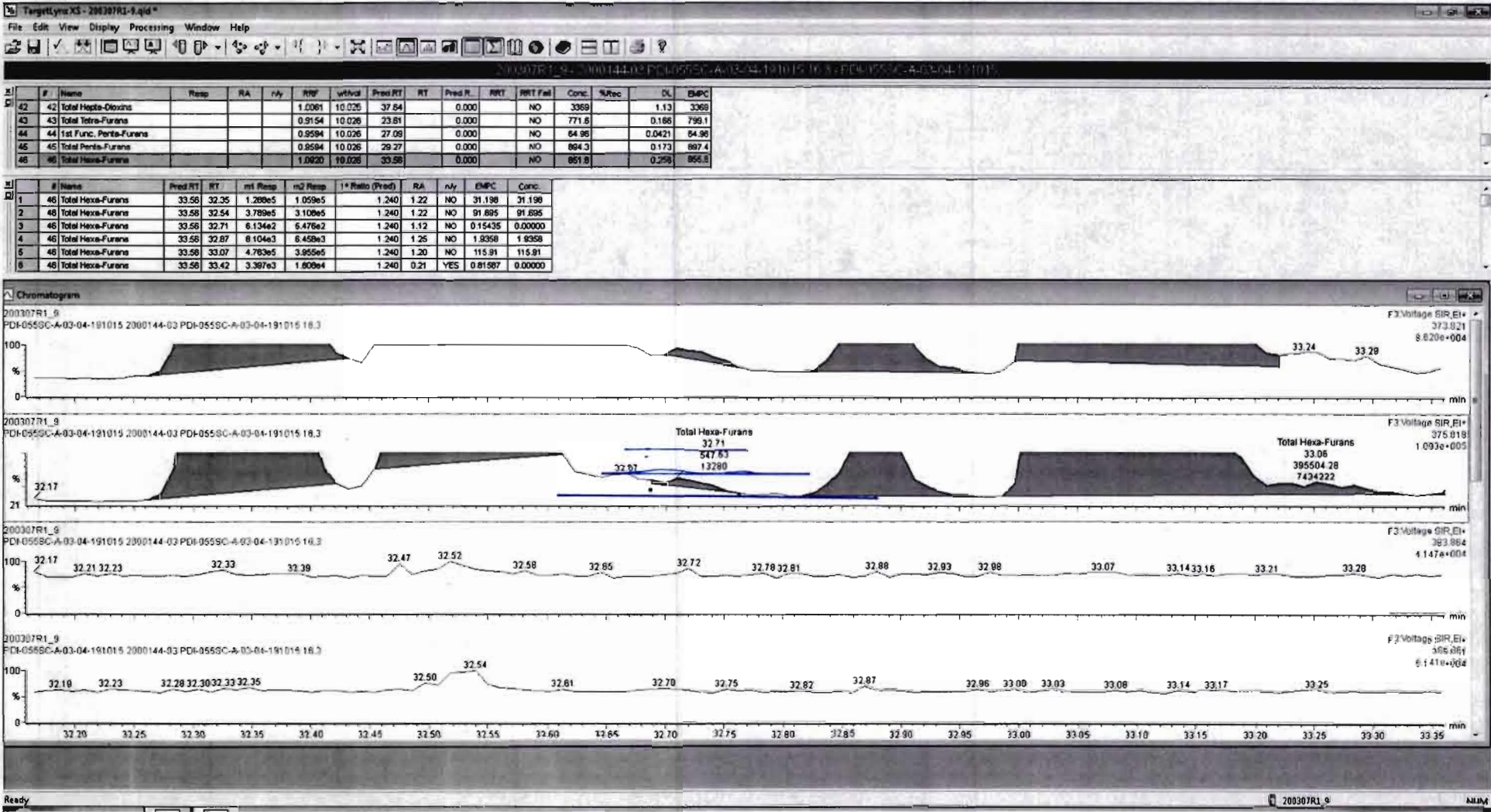
#	Name	Pred RT	RT	wt Resp	rd Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc
1	46 Total Hexa-Furans	33.56	32.35	1.280e5	1.059e5	1.240	1.22	NO	31.198	31.198
2	46 Total Hexa-Furans	33.56	32.54	3.789e5	3.108e5	1.240	1.22	NO	91.895	91.895
3	46 Total Hexa-Furans	33.56	32.87	8.104e3	6.458e3	1.240	1.25	NO	1.9358	1.9358
4	46 Total Hexa-Furans	33.56	33.07	4.759e5	3.948e5	1.240	1.21	NO	115.73	115.73
5	46 Total Hexa-Furans	33.56	33.42	1.301e4	1.808e4	1.240	0.81	YES	3.1247	0.00000
6	11 1,2,3,4,7,8-HxCDF	33.51	33.52	1.784e6	1.484e6	1.240	1.20	NO	445.06	445.06



#	Name	Resp	RA	rly	RPF	WtAval	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	Blank
42	Total Hepta-Clozins				1.0061	10.026	37.64		0.000		NO	3369		1.13	3369
43	Total Tetra-Furans				0.9154	10.026	23.91		0.000		NO	771.6		0.166	739.1
44	1st Func. Penta-Furans				0.9594	10.026	27.09		0.000		NO	64.96		0.0421	64.96
45	Total Penta-Furans				0.9594	10.026	29.27		0.000		NO	894.3		0.173	857.4
46	Total Hexa-Furans				1.0020	10.026	33.56		0.000		NO	922.7		0.256	926.3

#	Name	Pred RT	RT	mt Resp	nt Resp	1* Ratio (Pred)	RA	rly	EMPC	Conc.
1	Total Hexa-Furans	33.56	32.35	1.288e5	1.059e5	1.240	1.22	NO	31.198	31.198
2	Total Hexa-Furans	33.56	32.54	3.789e5	3.108e5	1.240	1.22	NO	91.695	91.695
3	Total Hexa-Furans	33.56	32.87	8.104e3	6.459e3	1.240	1.25	NO	1.9358	1.9358
4	Total Hexa-Furans	33.56	33.07	4.759e5	3.946e5	1.240	1.21	NO	115.73	115.73
5	Total Hexa-Furans	33.56	33.42	1.795e4	1.592e4	1.240	1.13	NO	4.5041	4.5041
6	1,2,3,4,7,8-HxCDF	33.51	33.52	1.791e8	1.484e8	1.240	1.21	NO	445.90	445.90





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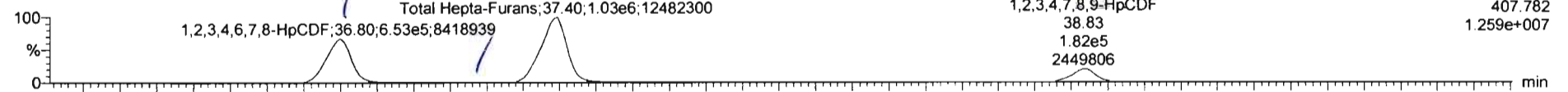
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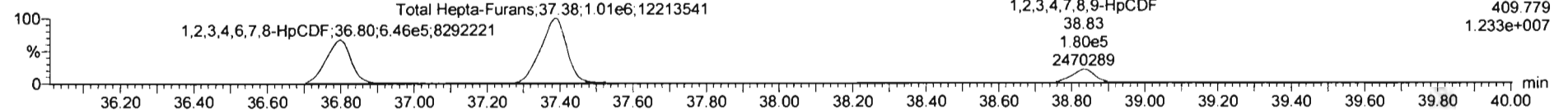
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1,2,3,4,6,7,8-HpCDF

200307R1_9

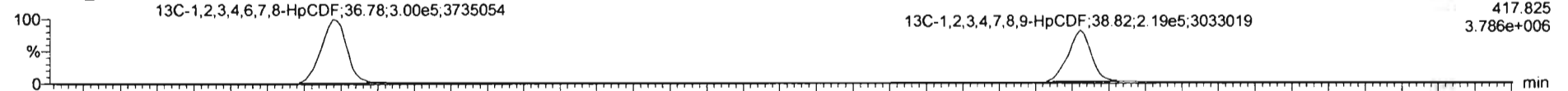


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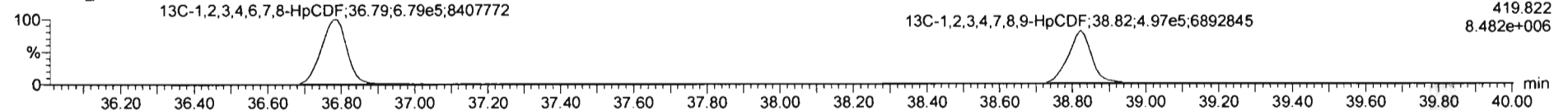


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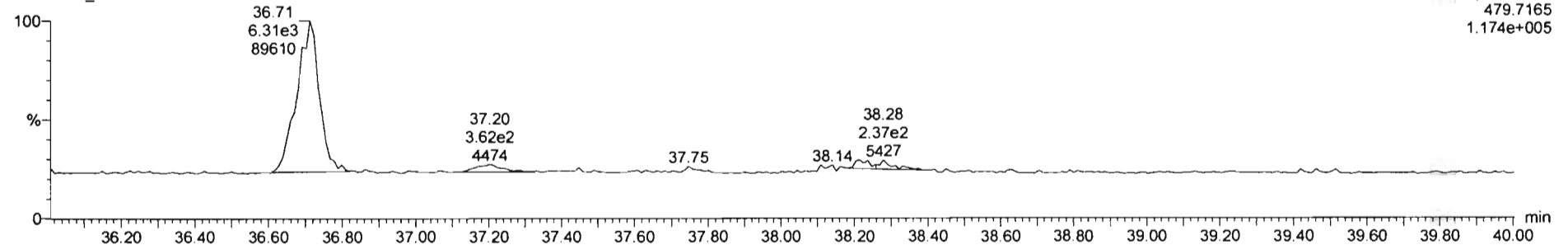


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DPE4

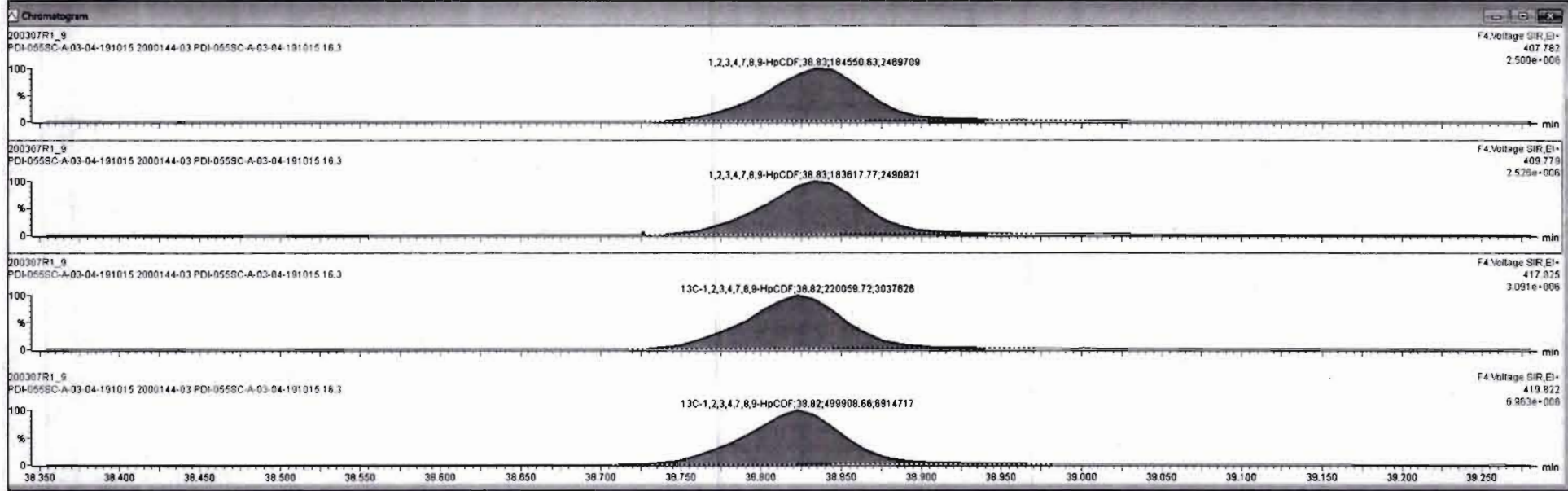
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200307R1_9 - 2000144-03 PDI-0559C-A-03-04-191015 16.3 - PDI-0559C-A-03-04-191015

#	Name	Resp	IS Resp	ISF	RA	n/y	PPF	wtAvd	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC	Primary Flag	No Sol...	Peak
1	1,2,3,7,8-TCDD	4.71e4	1.59e6	16	0.79	NO		10.026	25.83	25.81	1.001	1.001	NO	6.042	0.0943	8.042	MM	NO		
2	1,2,3,7,8-PeCDD	3.34e4	1.30e6	19	0.86	NO		10.026	30.99	30.99	1.001	1.001	NO	5.546	0.105	5.546	MM	NO		
3	1,2,3,4,7,8-HxCDD	2.41e4	1.01e6	20	1.22	NO		10.026	34.37	34.36	1.001	1.000	NO	4.193	0.268	4.193	MM	NO		
4	1,2,3,6,7,8-HxCDD	1.72e5	1.20e6	21	1.25	NO		10.026	34.47	34.48	1.000	1.000	NO	29.00	0.282	29.00	MM	NO		
5	1,2,3,7,8,9-HxCDD	6.22e4	1.12e6	22	1.25	NO		10.026	34.74	34.75	1.001	1.000	NO	11.41	0.302	11.41	MM	NO		

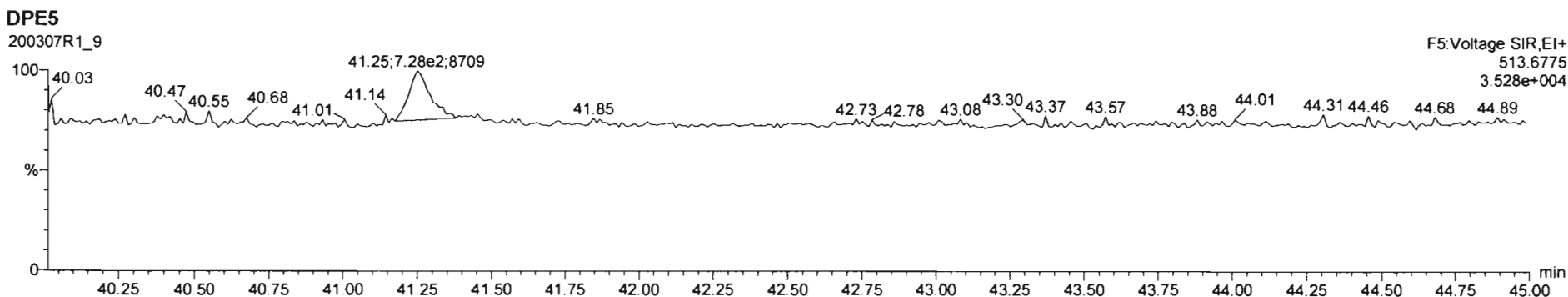
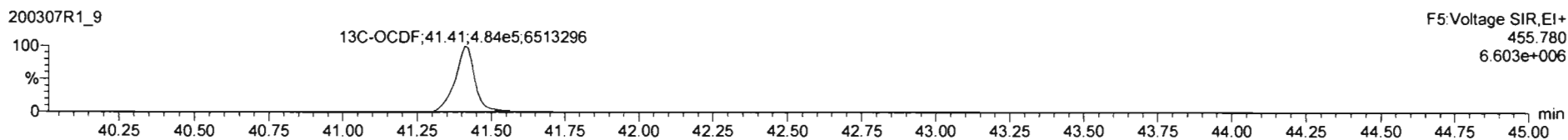
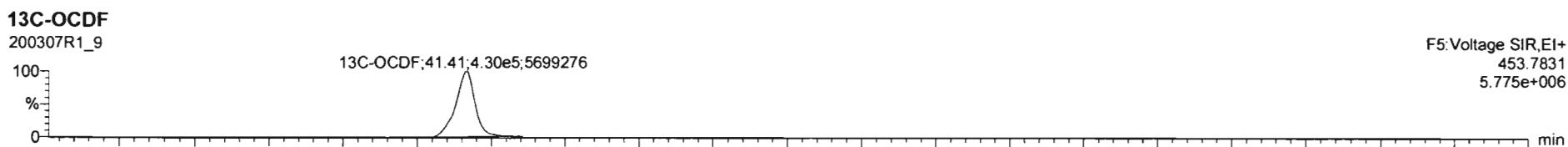
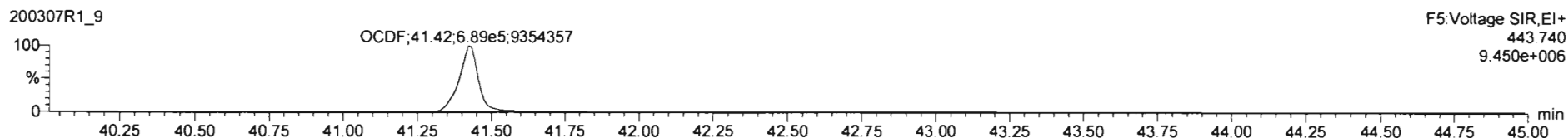
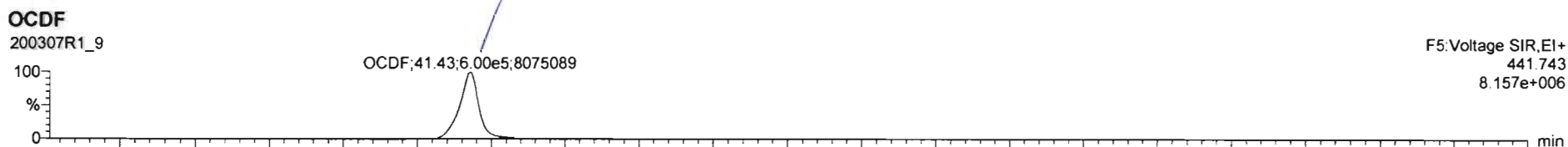
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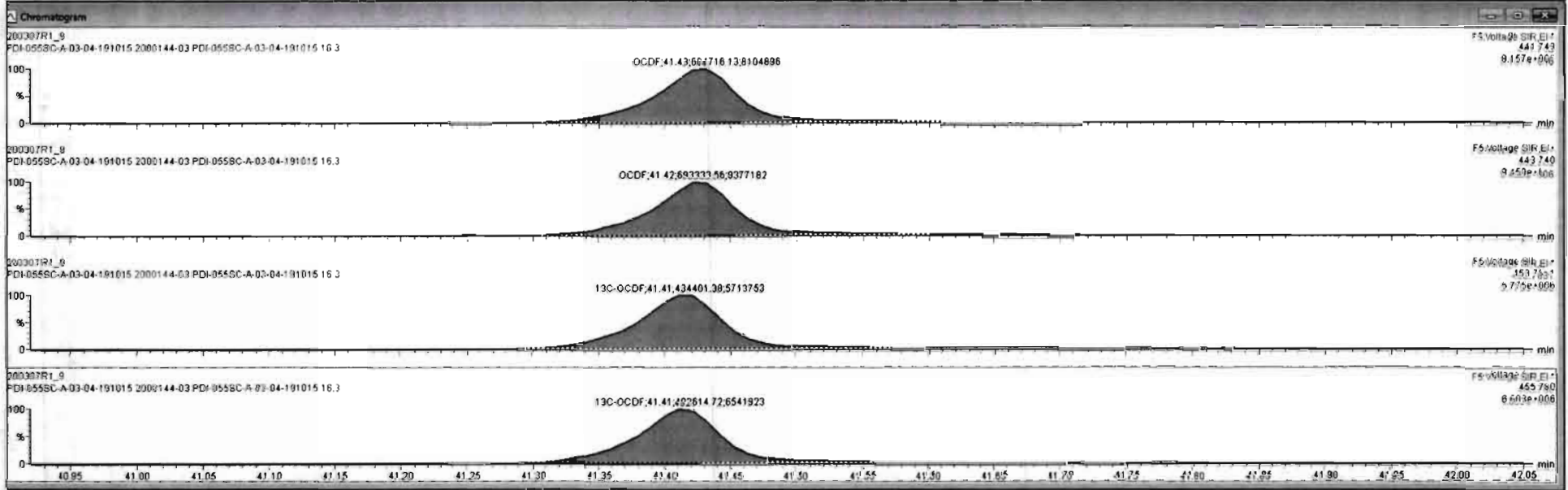
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Name: 200307R1_9, Date: 07-Mar-2020, Time: 16:03:27, ID: 2000144-03 PDI-055SC-A-03-04-191015 16.3, Description: PDI-055SC-A-03-04-191015



#	Name	Resp	RA	n/y	RRF	wtVol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc	%Rec	DL	EMPC
17	OCDF	1.30e6	0.87	NO	0.9488	10.026	41.41	41.43	1.000	1.001	NO	580.0		0.488	990.0
18	13C-2,3,7,8-TCDD	1.56e6	0.79	NO	1.1842	10.026	25.81	25.80	1.028	1.028	NO	178.0	89.2	0.148	
19	13C-1,2,3,7,8-PeCDD	1.30e6	0.84	NO	0.8844	10.026	31.01	30.87	1.236	1.234	NO	201.4	101	0.202	
20	13C-1,2,3,4,7,8-HxCDD	1.01e6	1.27	NO	0.7539	10.026	34.36	34.36	1.014	1.014	NO	166.9	83.7	0.305	
21	13C-1,2,3,6,7,8-HxCDD	1.20e6	1.27	NO	0.9254	10.026	34.47	34.47	1.017	1.017	NO	161.0	80.7	0.248	

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



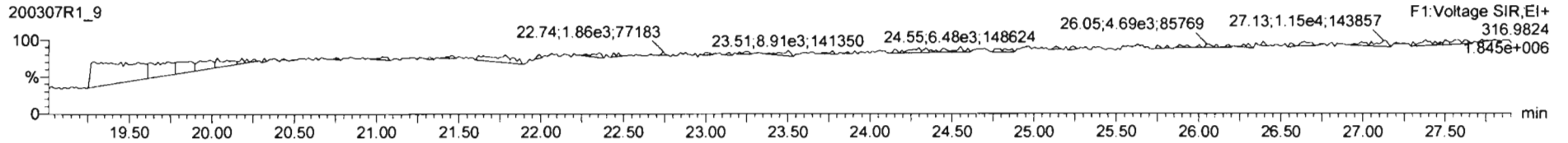
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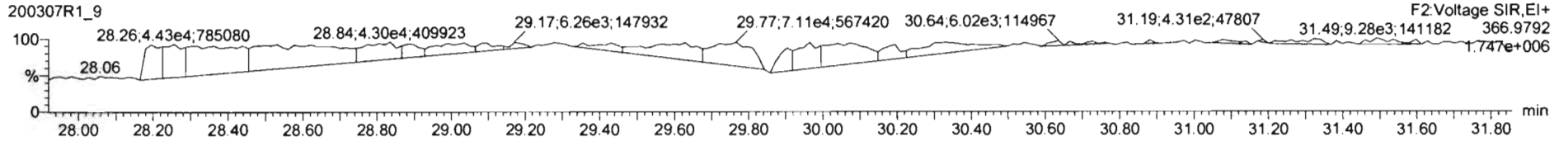
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Name: 200307R1_9, Date: 07-Mar-2020, Time: 16:03:27, ID: 2000144-03 PDI-055SC-A-03-04-191015 16.3, Description: PDI-055SC-A-03-04-191015

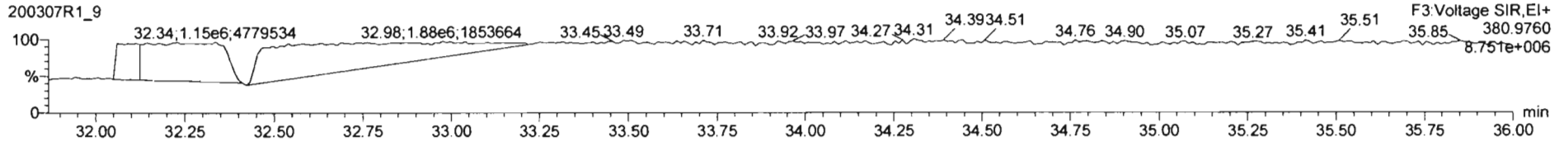
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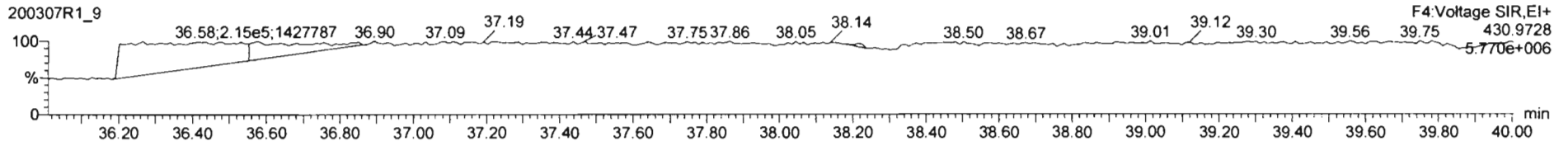
PFK2



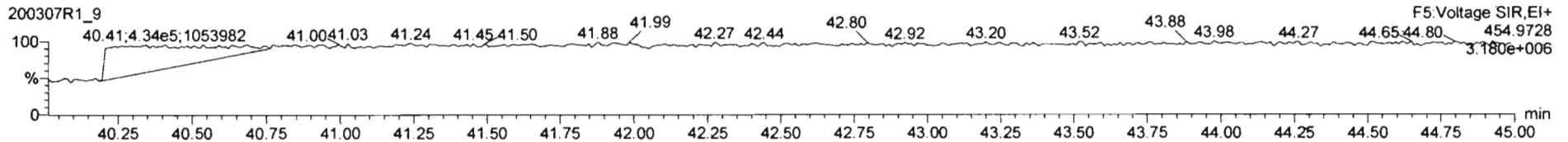
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200326R2\200326R2-14.qld

Last Altered: Friday, March 27, 2020 07:40:52 Pacific Daylight Time

Printed: Friday, March 27, 2020 07:42:35 Pacific Daylight Time

HN 03/27/2020

Method: U:\VG12.PRO\MethDB\1613rrt-3-20-20.mdb 21 Mar 2020 09:40:15

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

07 03/27/2020

Name: 200326R2_14, Date: 27-Mar-2020, Time: 00:03:32, ID: 2000144-03@2X PDI-055SC-A-03-04-191015 16.3, Description: PDI-055SC-A-03-04-191015

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	7 OCDD	5.76e6	0.90	NO	1.05	10.026	41.361	41.37	1.000	1.000	11319		2.82	11300
2	24 13C-OCDD	1.93e5	0.92	NO	0.571	10.026	41.332	41.36	1.215	1.216	91.418	22.9	0.430	
3	36 13C-1,2,3,4-TCDD	5.92e5	0.82	NO	1.00	10.026	25.030	25.03	1.000	1.000	199.48	100	0.459	
4	37 13C-1,2,3,4-TCDF	1.10e6	0.81	NO	1.00	10.026	23.090	23.09	1.000	1.000	199.48	100	0.536	
5	38 13C-1,2,3,4,6,9-HxCDF	7.37e5	0.52	NO	1.00	10.026	34.020	34.01	1.000	1.000	199.48	100	0.557	

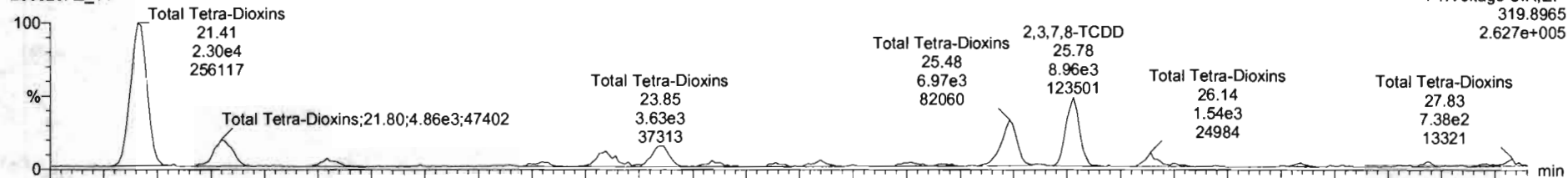
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Last Altered: Friday, March 27, 2020 07:36:53 Pacific Daylight Time
Printed: Friday, March 27, 2020 07:37:21 Pacific Daylight Time

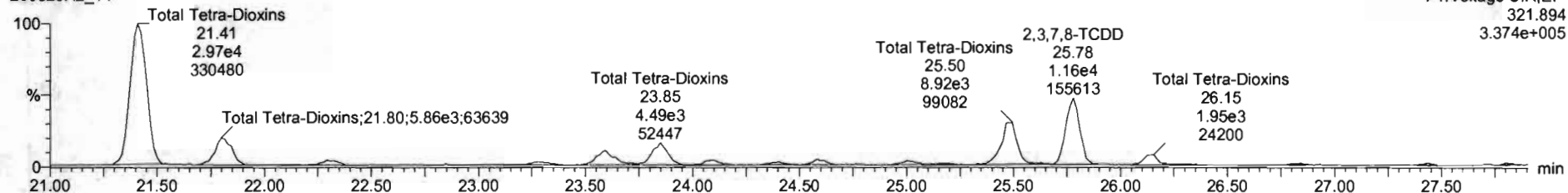
Name: 200326R2_14, Date: 27-Mar-2020, Time: 00:03:32, ID: 2000144-03@2X PDI-055SC-A-03-04-191015 16.3, Description: PDI-055SC-A-03-04-191015

2,3,7,8-TCDD

200326R2_14

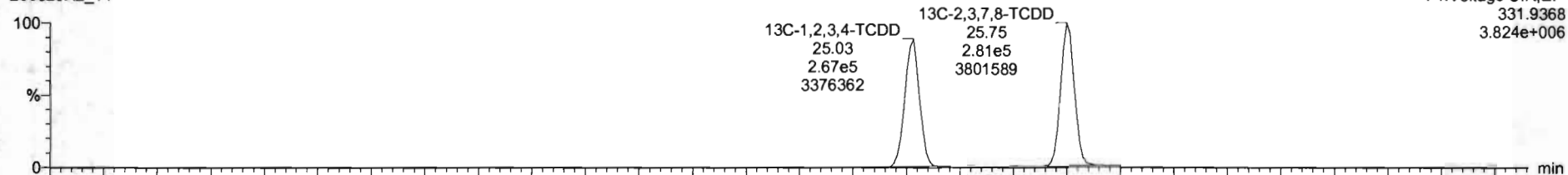


200326R2_14

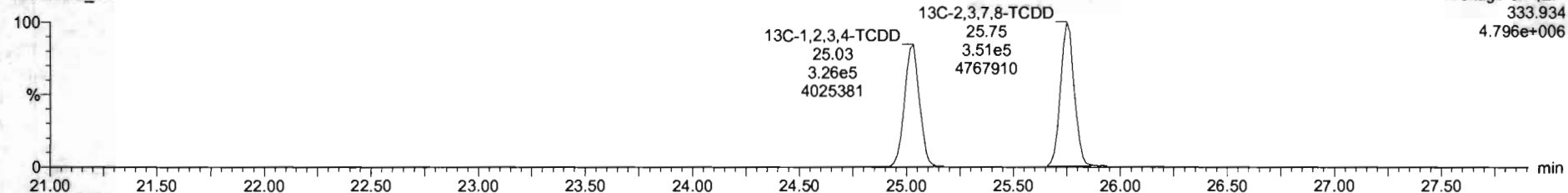


13C-2,3,7,8-TCDD

200326R2_14



200326R2_14



Dataset: Untitled

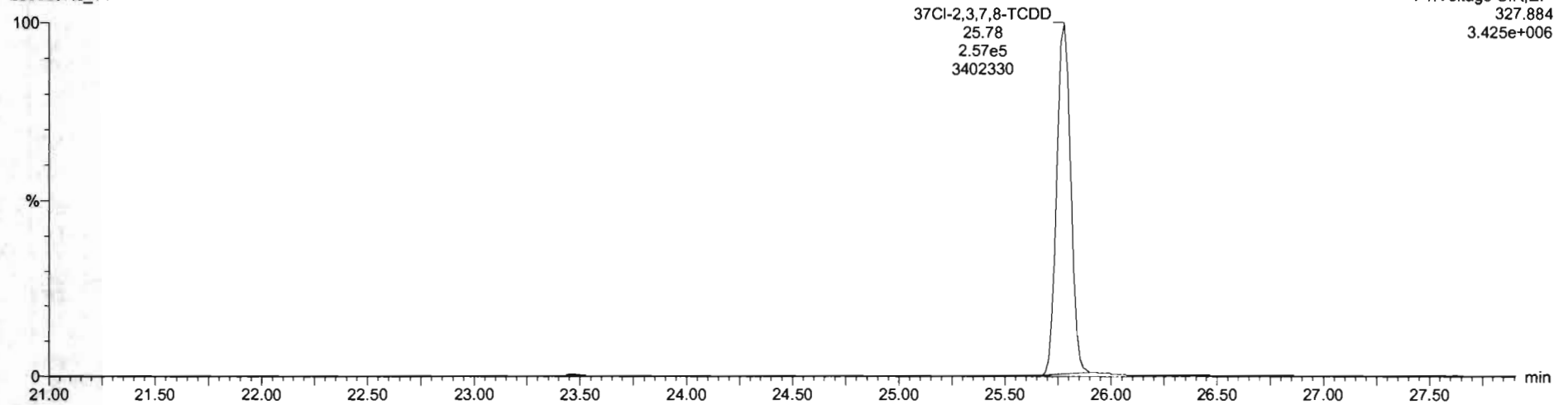
Last Altered: Friday, March 27, 2020 07:36:53 Pacific Daylight Time

Printed: Friday, March 27, 2020 07:37:21 Pacific Daylight Time

Name: 200326R2_14, Date: 27-Mar-2020, Time: 00:03:32, ID: 2000144-03@2X PDI-055SC-A-03-04-191015 16.3, Description: PDI-055SC-A-03-04-191015

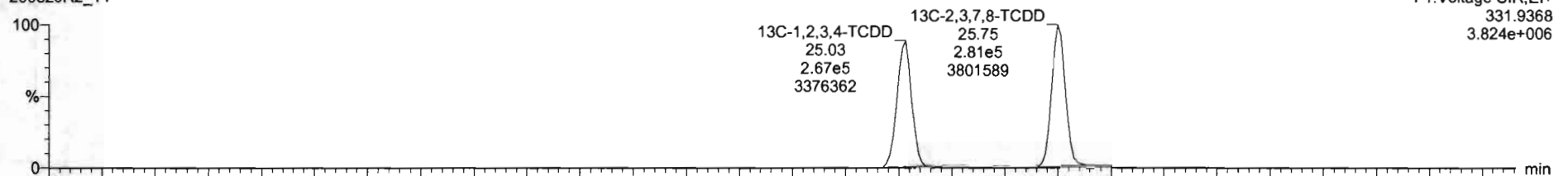
37Cl-2,3,7,8-TCDD

200326R2_14

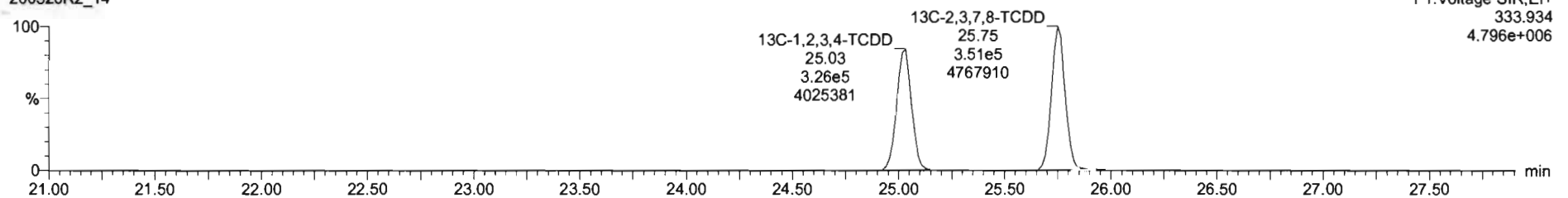


13C-1,2,3,4-TCDD

200326R2_14



200326R2_14



Dataset: Untitled

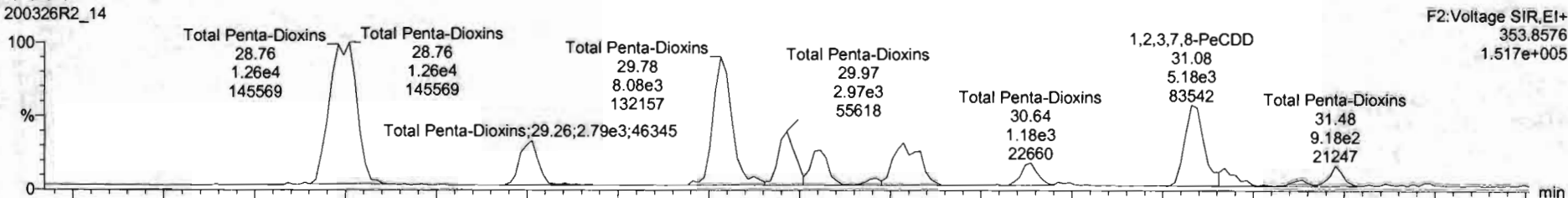
Last Altered: Friday, March 27, 2020 07:36:53 Pacific Daylight Time

Printed: Friday, March 27, 2020 07:37:21 Pacific Daylight Time

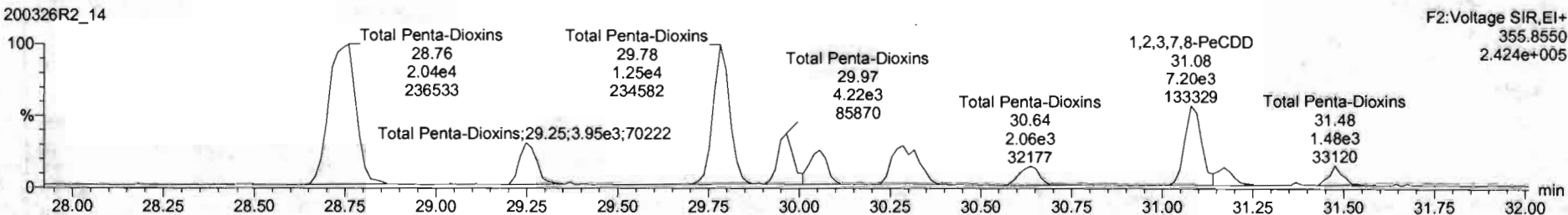
Name: 200326R2_14, Date: 27-Mar-2020, Time: 00:03:32, ID: 2000144-03@2X PDI-055SC-A-03-04-191015 16.3, Description: PDI-055SC-A-03-04-191015

1,2,3,7,8-PeCDD

200326R2_14

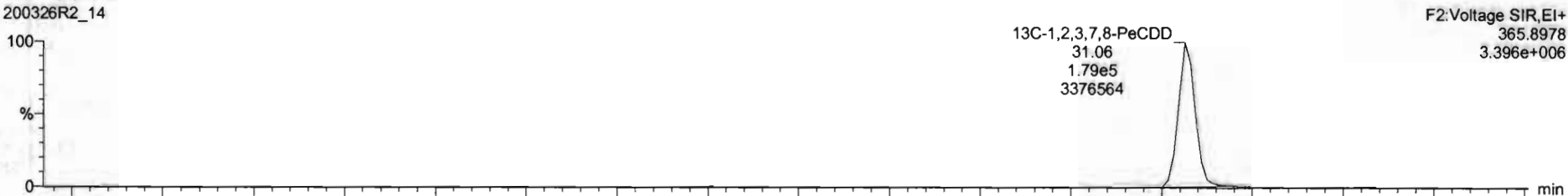


200326R2_14

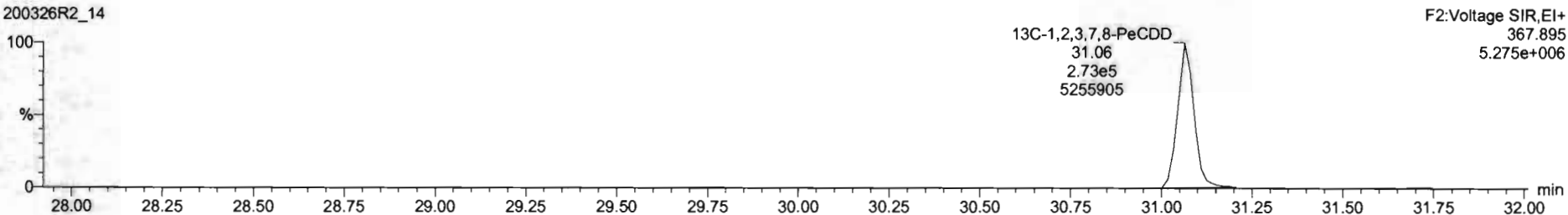


13C-1,2,3,7,8-PeCDD

200326R2_14



200326R2_14



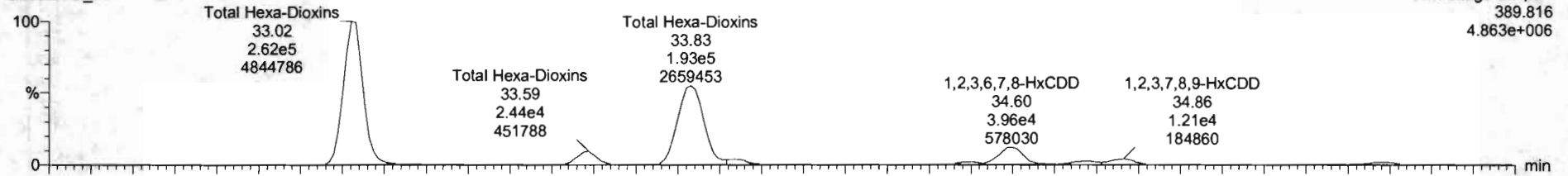
Dataset: Untitled

Last Altered: Friday, March 27, 2020 07:36:53 Pacific Daylight Time
Printed: Friday, March 27, 2020 07:37:21 Pacific Daylight Time

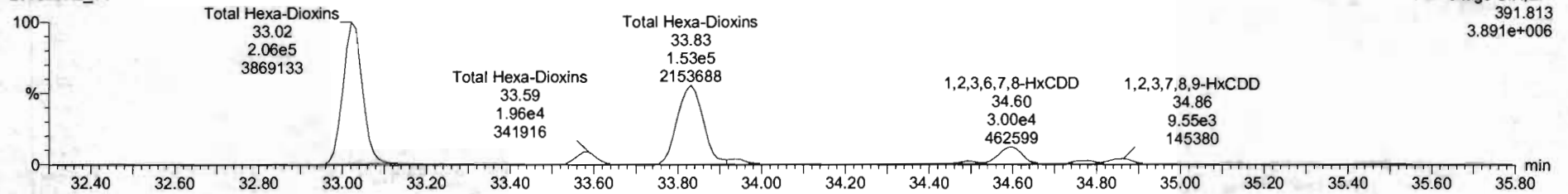
Name: 200326R2_14, Date: 27-Mar-2020, Time: 00:03:32, ID: 2000144-03@2X PDI-055SC-A-03-04-191015 16.3, Description: PDI-055SC-A-03-04-191015

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

200326R2_14

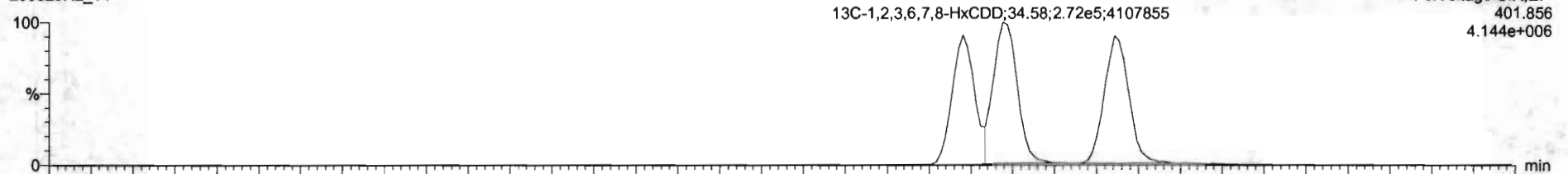


200326R2_14

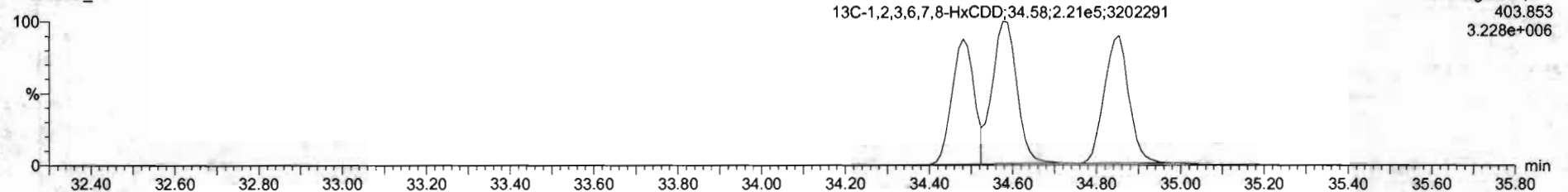


13C-1,2,3,4,7,8-HxCDD

200326R2_14



200326R2_14



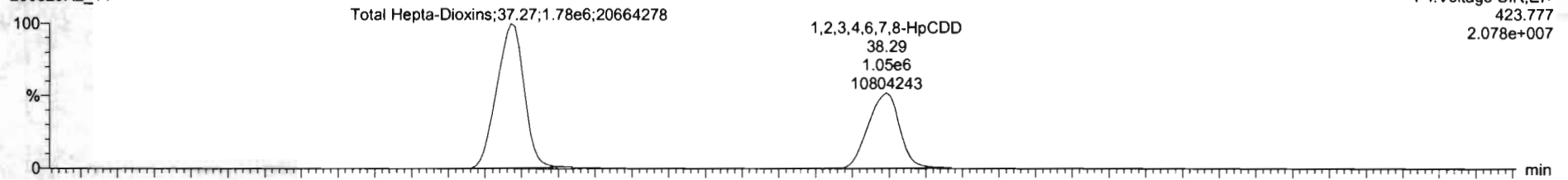
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Last Altered: Friday, March 27, 2020 07:36:53 Pacific Daylight Time
Printed: Friday, March 27, 2020 07:37:21 Pacific Daylight Time

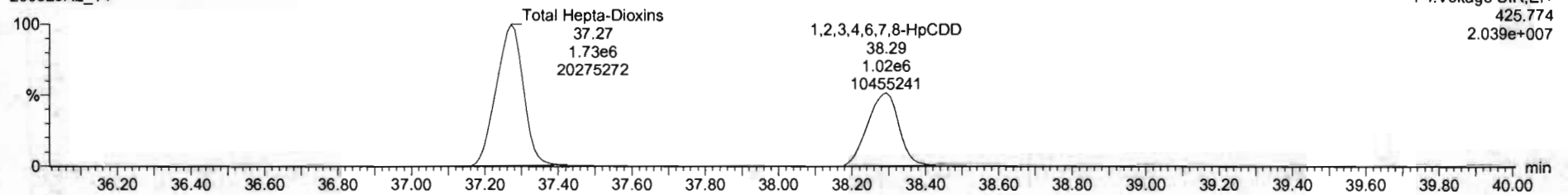
Name: 200326R2_14, Date: 27-Mar-2020, Time: 00:03:32, ID: 2000144-03@2X PDI-055SC-A-03-04-191015 16.3, Description: PDI-055SC-A-03-04-191015

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

200326R2_14

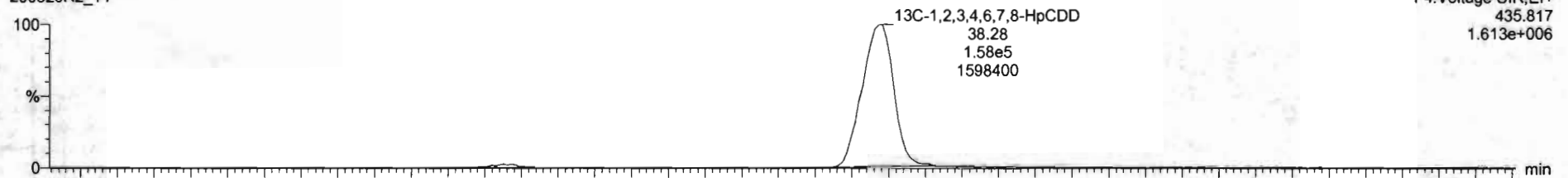


200326R2_14

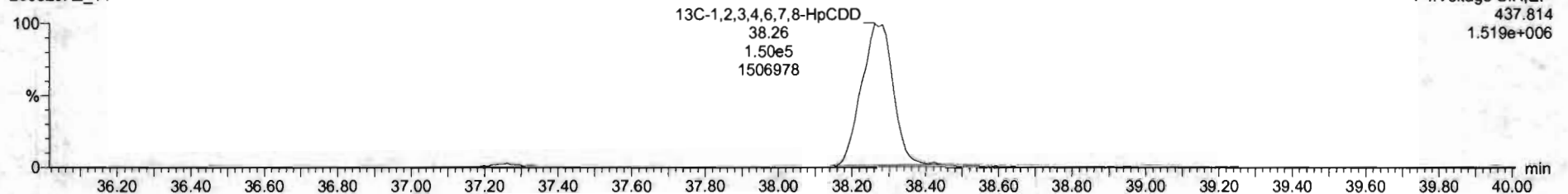


13C-1,2,3,4,6,7,8-HpCDD

200326R2_14



200326R2_14

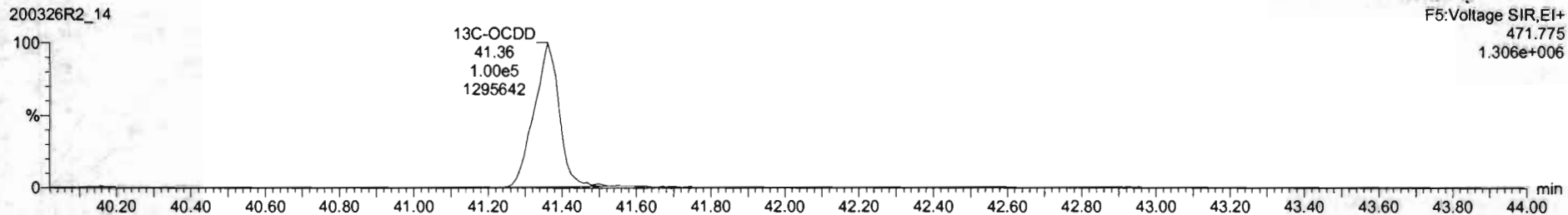
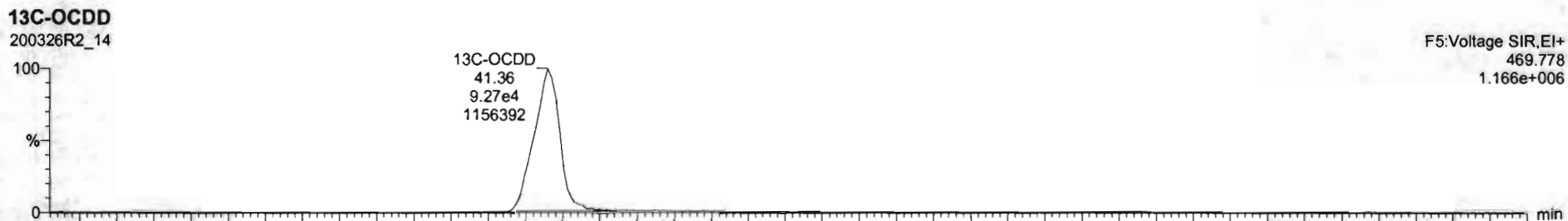
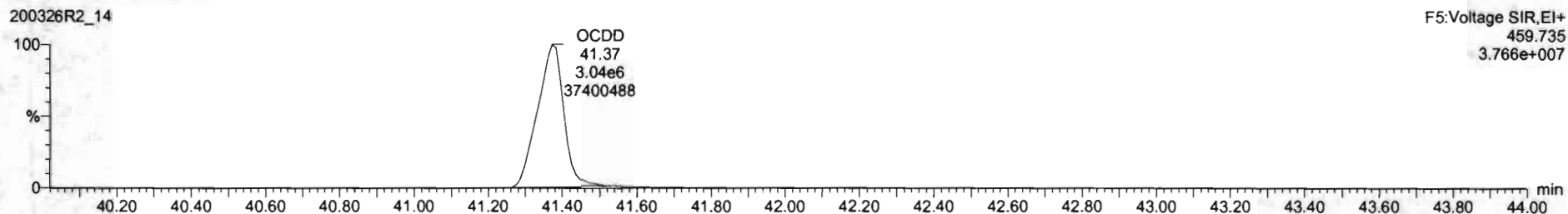
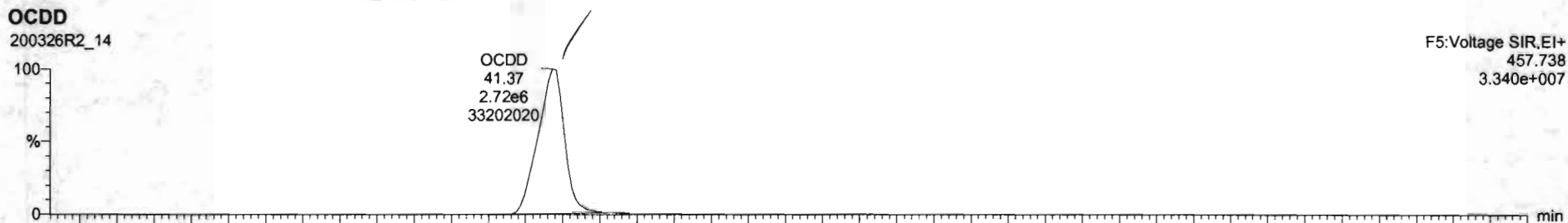


Dataset: Untitled

Last Altered: Friday, March 27, 2020 07:36:53 Pacific Daylight Time

Printed: Friday, March 27, 2020 07:37:21 Pacific Daylight Time

Name: 200326R2_14, Date: 27-Mar-2020, Time: 00:03:32, ID: 2000144-03@2X PDI-055SC-A-03-04-191015 16.3, Description: PDI-055SC-A-03-04-191015



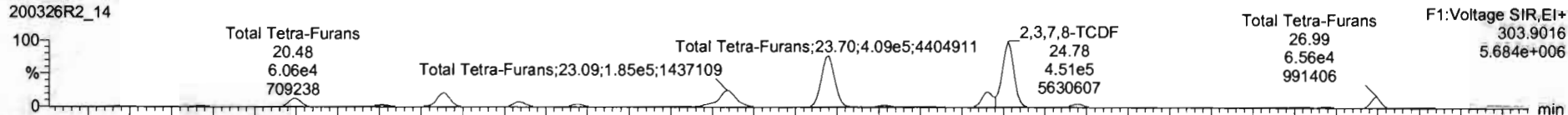
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Last Altered: Friday, March 27, 2020 07:36:53 Pacific Daylight Time
Printed: Friday, March 27, 2020 07:37:21 Pacific Daylight Time

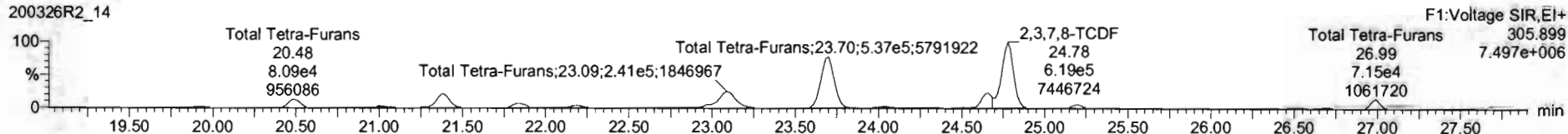
Name: 200326R2_14, Date: 27-Mar-2020, Time: 00:03:32, ID: 2000144-03@2X PDI-055SC-A-03-04-191015 16.3, Description: PDI-055SC-A-03-04-191015

2,3,7,8-TCDF

200326R2_14

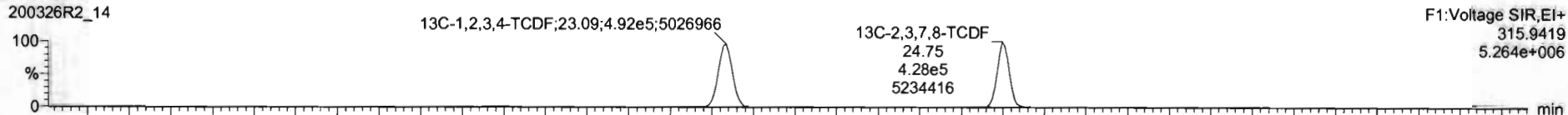


200326R2_14

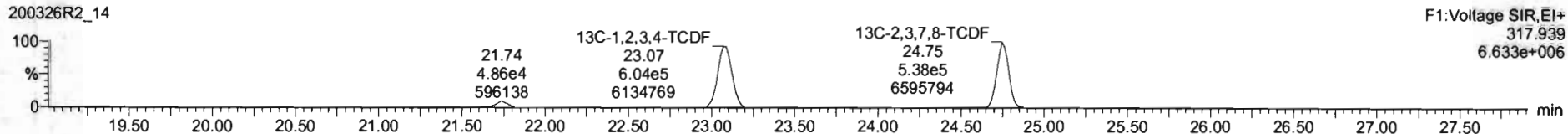


13C-2,3,7,8-TCDF

200326R2_14

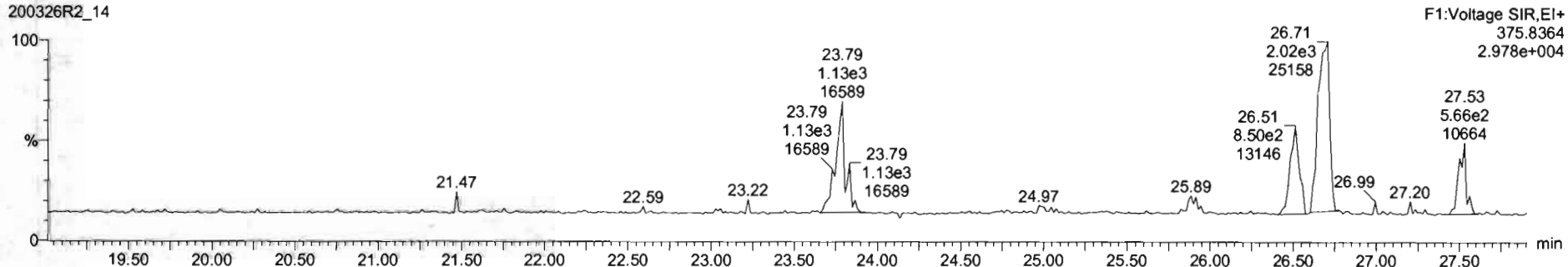


200326R2_14



DPE1

200326R2_14



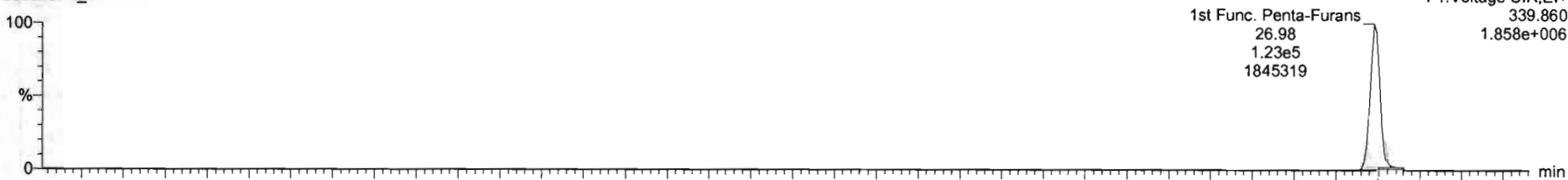
Dataset: Untitled

Last Altered: Friday, March 27, 2020 07:36:53 Pacific Daylight Time
Printed: Friday, March 27, 2020 07:37:21 Pacific Daylight Time

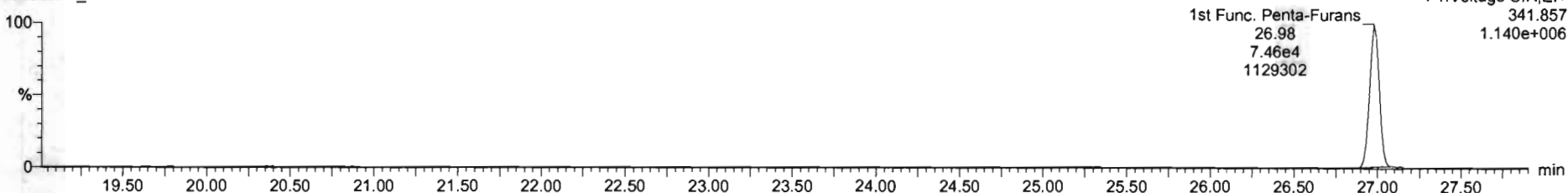
Name: 200326R2_14, Date: 27-Mar-2020, Time: 00:03:32, ID: 2000144-03@2X PDI-055SC-A-03-04-191015 16.3, Description: PDI-055SC-A-03-04-191015

1st Func. Penta-Furans

200326R2_14

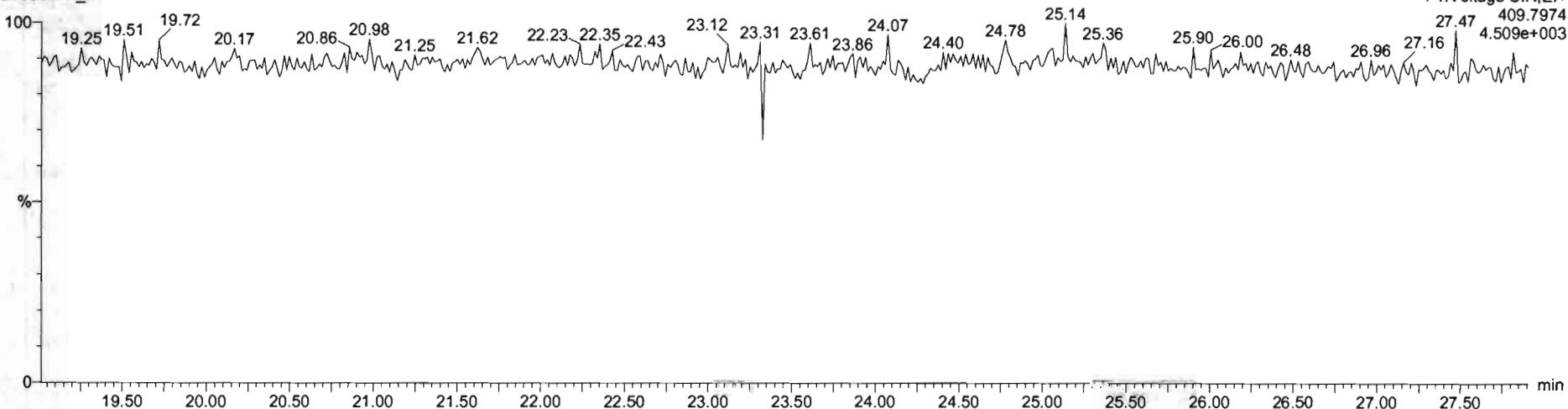


200326R2_14



DPE6

200326R2_14



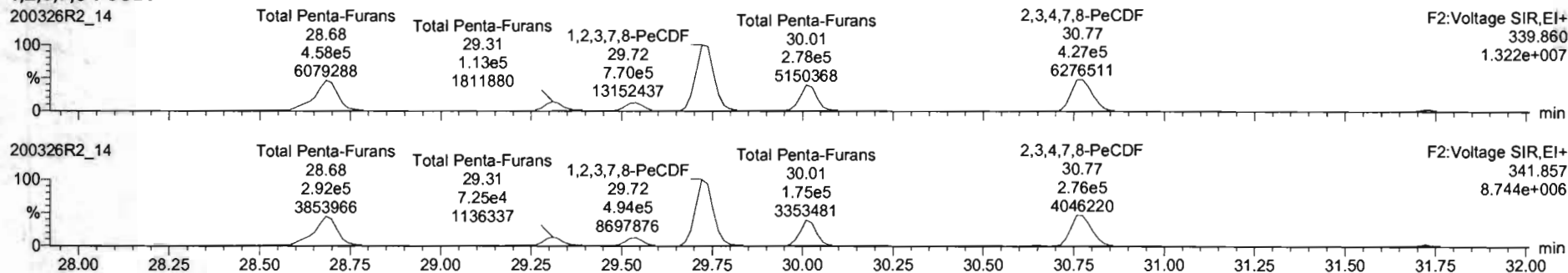
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Last Altered: Friday, March 27, 2020 07:36:53 Pacific Daylight Time

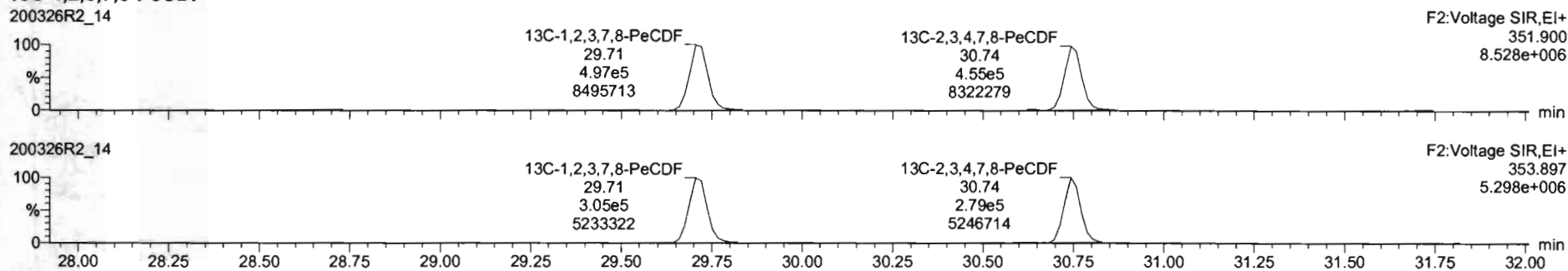
Printed: Friday, March 27, 2020 07:37:21 Pacific Daylight Time

Name: 200326R2_14, Date: 27-Mar-2020, Time: 00:03:32, ID: 2000144-03@2X PDI-055SC-A-03-04-191015 16.3, Description: PDI-055SC-A-03-04-191015

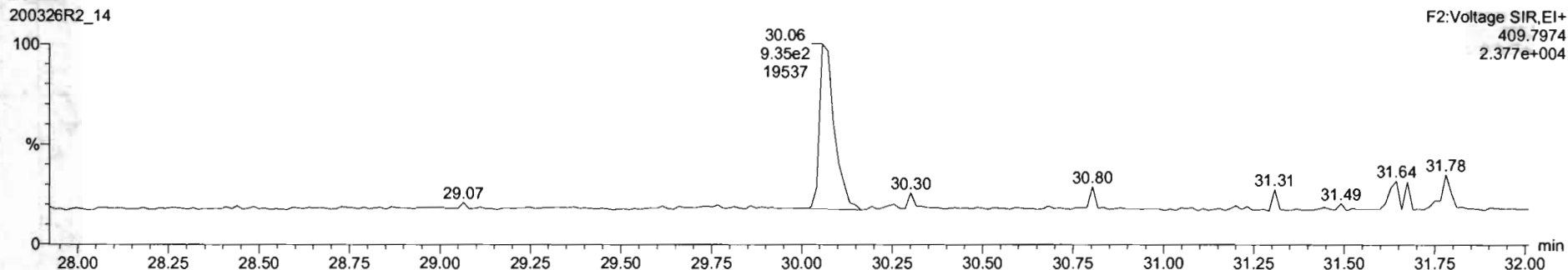
1,2,3,7,8-PeCDF



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



DPE2

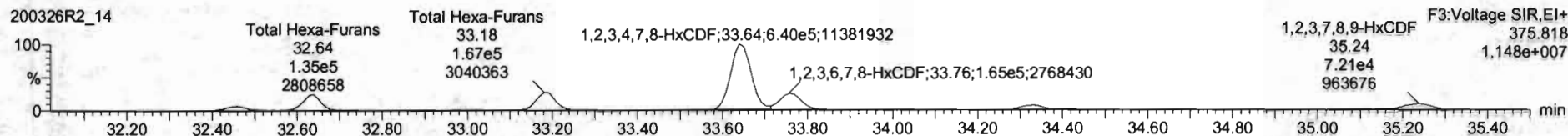
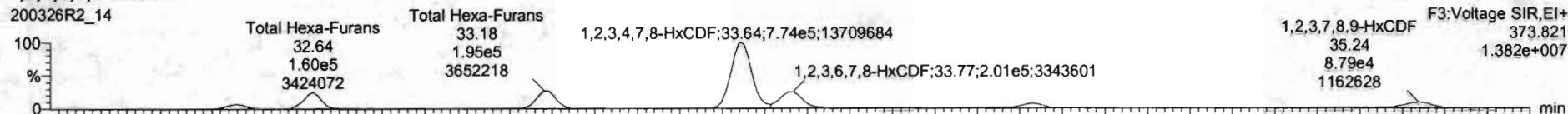


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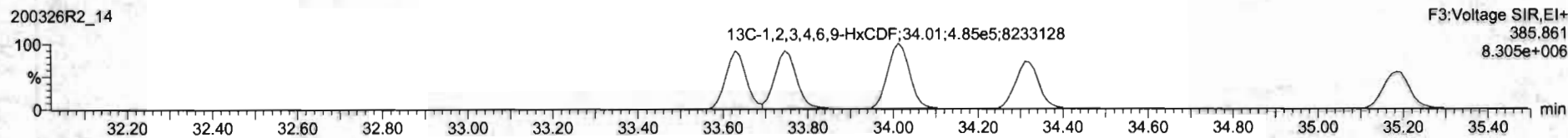
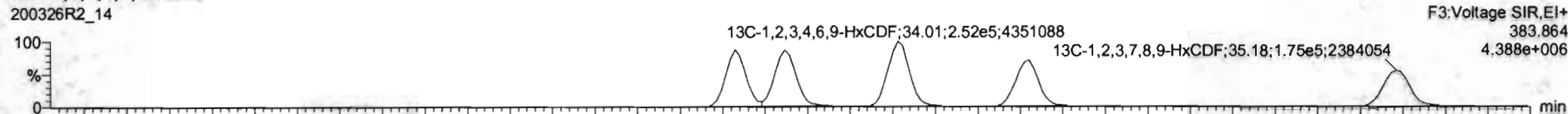
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Name: 200326R2_14, Date: 27-Mar-2020, Time: 00:03:32, ID: 2000144-03@2X PDI-055SC-A-03-04-191015 16.3, Description: PDI-055SC-A-03-04-191015

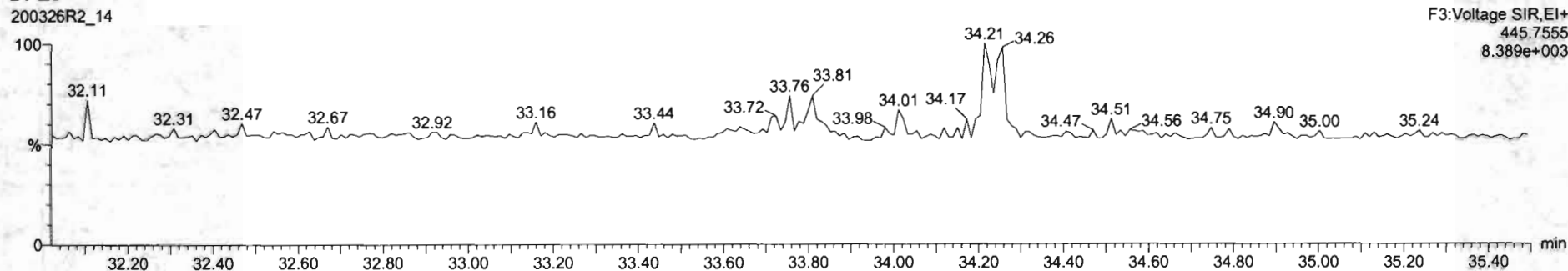
1,2,3,4,7,8-HxCDF



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



DPE3



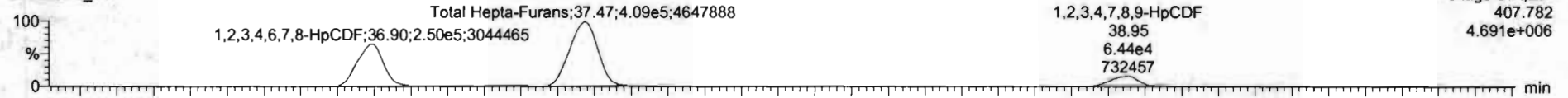
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Printed: Friday, March 27, 2020 07:37:21 Pacific Daylight Time

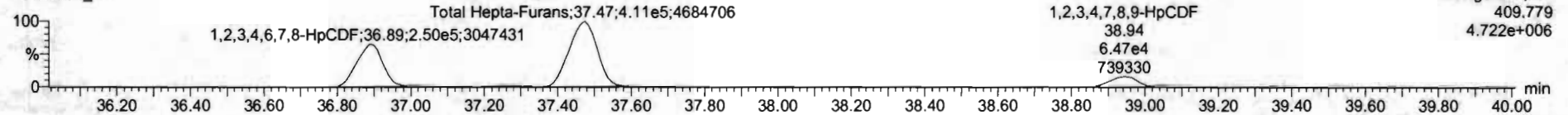
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1,2,3,4,6,7,8-HpCDF

200326R2_14

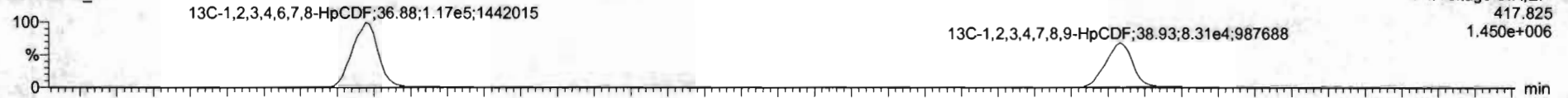


200326R2_14

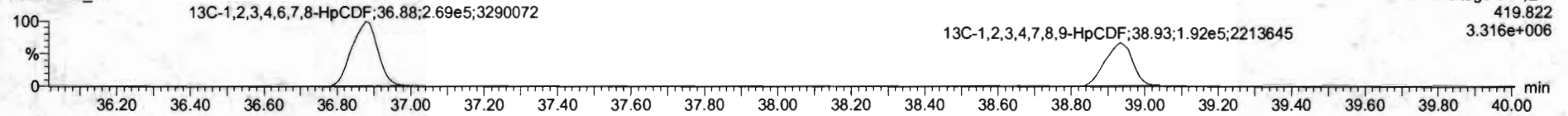


13C-1,2,3,4,6,7,8-HpCDF

200326R2_14

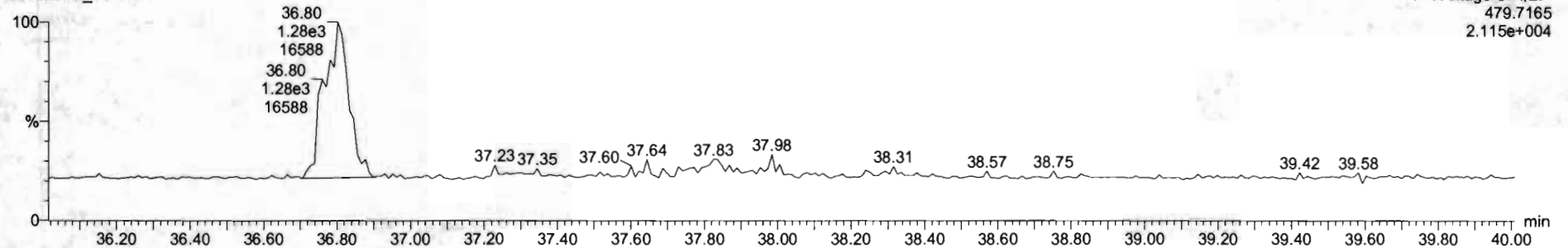


200326R2_14



DPE4

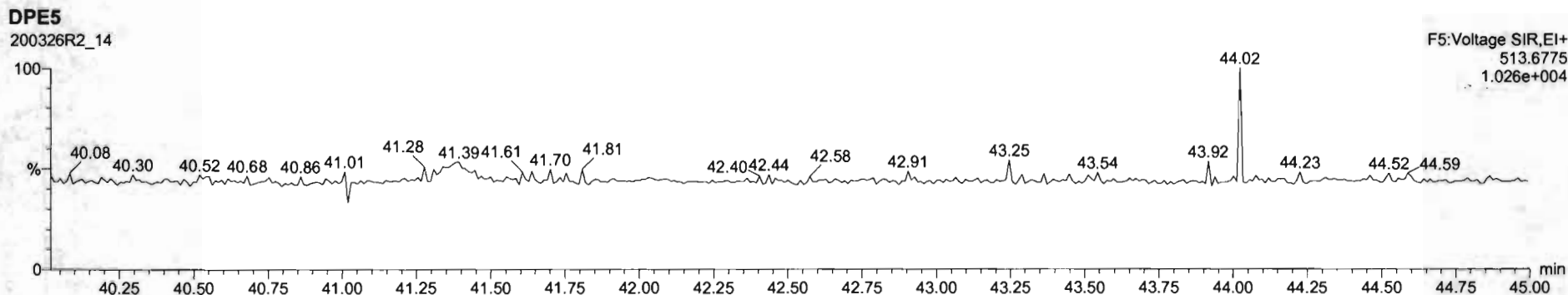
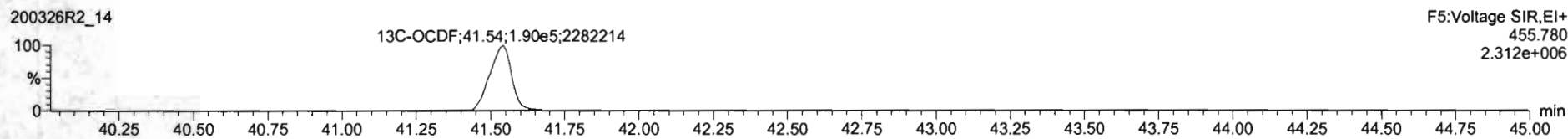
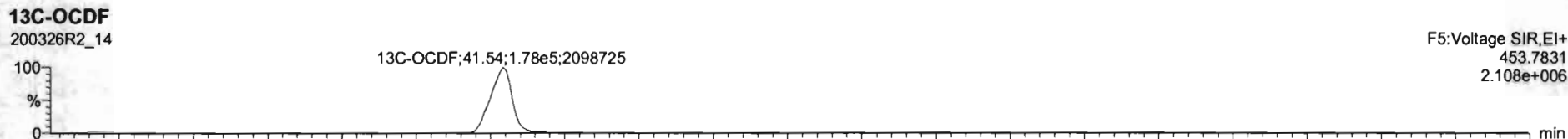
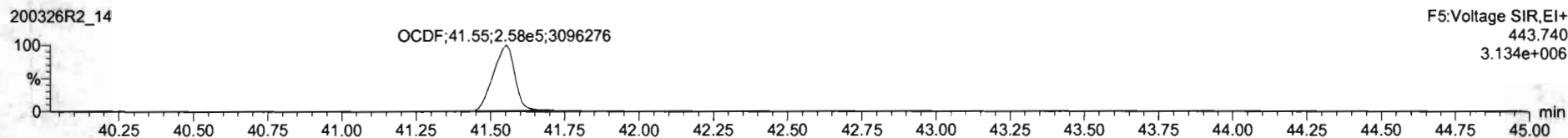
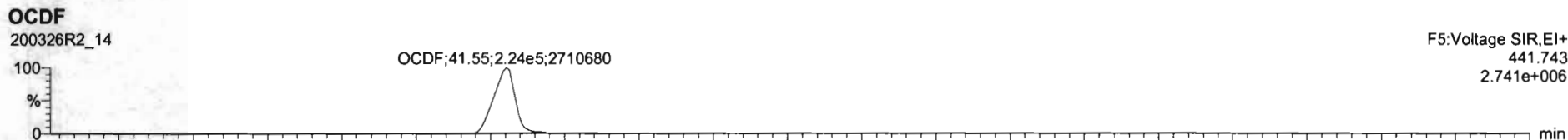
200326R2_14



Dataset: Untitled

Last Altered: Friday, March 27, 2020 07:36:53 Pacific Daylight Time
Printed: Friday, March 27, 2020 07:37:21 Pacific Daylight Time

Name: 200326R2_14, Date: 27-Mar-2020, Time: 00:03:32, ID: 2000144-03@2X PDI-055SC-A-03-04-191015 16.3, Description: PDI-055SC-A-03-04-191015



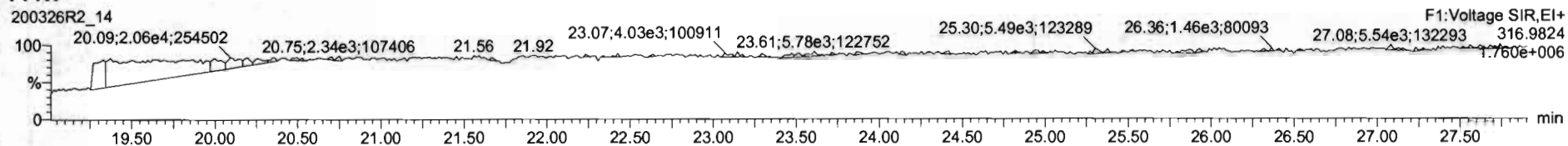
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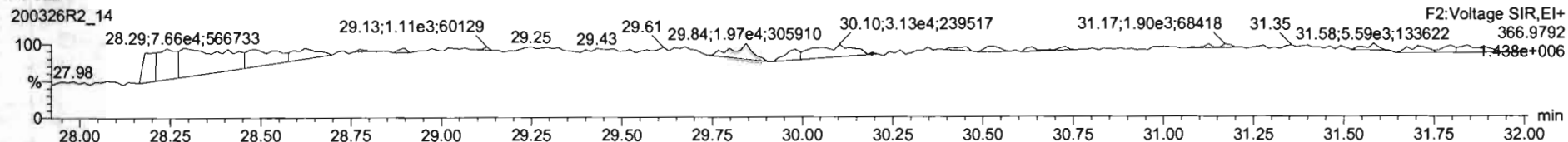
Printed: Friday, March 27, 2020 07:37:21 Pacific Daylight Time

Name: 200326R2_14, Date: 27-Mar-2020, Time: 00:03:32, ID: 2000144-03@2X PDI-055SC-A-03-04-191015 16.3, Description: PDI-055SC-A-03-04-191015

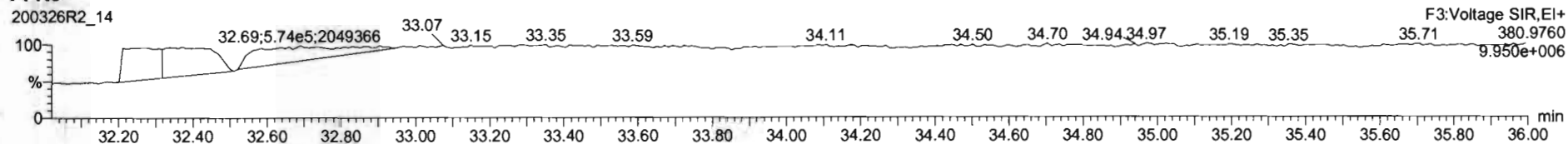
PFK1



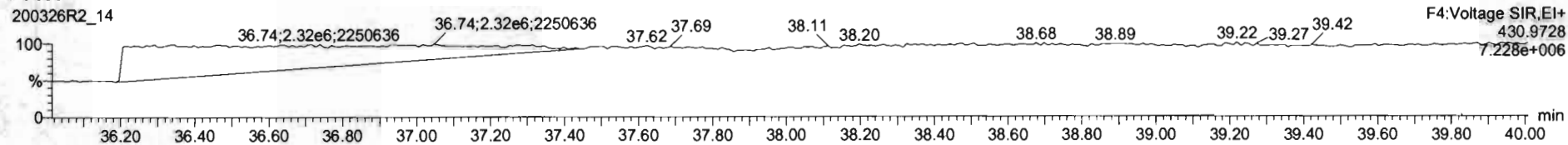
PFK2



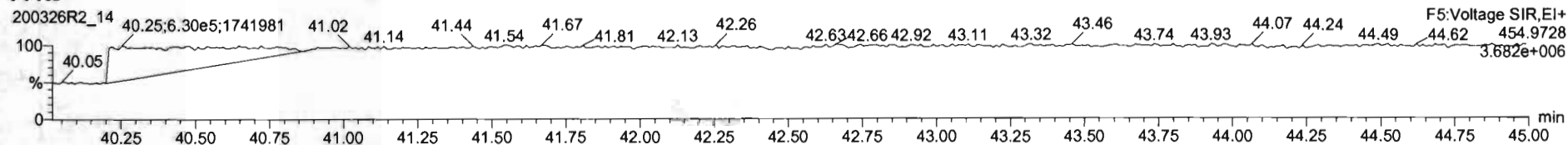
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200307R1\200307R1-10.qld

Last Altered: Monday, March 23, 2020 3:30:50 PM Pacific Daylight Time
Printed: Monday, March 23, 2020 3:31:50 PM Pacific Daylight Time

R 03/23/2020

C1 03/20/2020

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

Name: 200307R1_10, Date: 07-Mar-2020, Time: 16:51:01, ID: 2000144-04 PDI-059SC-A-12-13-191016 13.26, Description: PDI-059SC-A-12-13-191016,
Task: ST200307R1_1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD			NO	0.983	10.034					0.0782	
2	1,2,3,7,8-PeCDD			NO	0.921	10.034					0.0626	
3	1,2,3,4,7,8-HxCDD			NO	1.13	10.034					0.103	
4	1,2,3,6,7,8-HxCDD			NO	0.984	10.034					0.0972	
5	1,2,3,7,8,9-HxCDD			NO	0.967	10.034					0.107	
6	1,2,3,4,6,7,8-HpCDD	6.13e3	1.08	NO	1.01	10.034	38.23	1.001	1.2886		0.181	1.29
7	OCDD	2.46e4	0.84	NO	1.05	10.034	41.24	1.000	5.9205		0.172	5.92
8	2,3,7,8-TCDF	6.75e2	0.86	NO	0.915	10.034	24.81	1.000	0.072498		0.0606	0.0725
9	1,2,3,7,8-PeCDF	1.06e3	1.51	NO	0.959	10.034	29.66	1.001	0.12699		0.0733	0.127
10	2,3,4,7,8-PeCDF	8.38e2	1.51	NO	1.00	10.034	30.68	1.001	0.097343		0.0702	0.0973
11	1,2,3,4,7,8-HxCDF	1.84e3	1.04	YES	1.04	10.034	33.53	1.001	0.27265		0.0729	0.251
12	1,2,3,6,7,8-HxCDF			NO	1.01	10.034					0.0723	
13	2,3,4,6,7,8-HxCDF			NO	1.09	10.034					0.0766	
14	1,2,3,7,8,9-HxCDF	5.10e2	1.07	NO	1.03	10.034	35.08	1.000	0.085093		0.109	0.0851
15	1,2,3,4,6,7,8-HpCDF	1.22e3	1.03	NO	1.05	10.034	36.82	1.001	0.22470		0.0975	0.225
16	1,2,3,4,7,8,9-HpCDF			NO	1.21	10.034					0.105	
17	OCDF	1.57e3	0.76	YES	0.947	10.034	41.43	1.001	0.34295		0.106	0.314
18	13C-2,3,7,8-TCDD	1.45e6	0.78	NO	1.18	10.034	25.78	1.029	206.56	104	0.196	
19	13C-1,2,3,7,8-PeCDD	1.19e6	0.63	NO	0.864	10.034	30.97	1.236	233.02	117	0.253	
20	13C-1,2,3,4,7,8-HxCDD	9.34e5	1.34	NO	0.754	10.034	34.36	1.014	193.43	97.0	0.353	
21	13C-1,2,3,6,7,8-HxCDD	1.12e6	1.22	NO	0.925	10.034	34.47	1.017	188.51	94.6	0.288	
22	13C-1,2,3,7,8,9-HxCDD	1.06e6	1.26	NO	0.829	10.034	34.73	1.025	199.76	100	0.321	
23	13C-1,2,3,4,6,7,8-HpCDD	9.42e5	1.05	NO	0.598	10.034	38.19	1.127	245.80	123	0.485	
24	13C-OCDD	1.57e6	0.90	NO	0.571	10.034	41.23	1.217	429.77	108	0.454	
25	13C-2,3,7,8-TCDF	2.03e6	0.79	NO	1.09	10.034	24.81	0.990	202.88	102	0.270	
26	13C-1,2,3,7,8-PeCDF	1.73e6	1.60	NO	0.876	10.034	29.63	1.182	215.81	108	0.470	
27	13C-2,3,4,7,8-PeCDF	1.71e6	1.58	NO	0.844	10.034	30.65	1.223	221.13	111	0.488	
28	13C-1,2,3,4,7,8-HxCDF	1.30e6	0.51	NO	1.00	10.034	33.51	0.989	202.31	101	0.326	
29	13C-1,2,3,6,7,8-HxCDF	1.40e6	0.52	NO	1.12	10.034	33.63	0.992	194.97	97.8	0.292	
30	13C-2,3,4,6,7,8-HxCDF	1.32e6	0.52	NO	1.04	10.034	34.19	1.009	199.34	100	0.315	

Dataset: U:\VG12.PRO\Results\200307R1\200307R1-10.qld

Last Altered: Monday, March 23, 2020 3:30:50 PM Pacific Daylight Time

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Name: 200307R1_10, Date: 07-Mar-2020, Time: 16:51:01, ID: 2000144-04 PDI-059SC-A-12-13-191016 13.26, Description: PDI-059SC-A-12-13-191016, Task: ST200307R1_1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
31	13C-1,2,3,7,8,9-HxCDF	1.16e6	0.53	NO	0.873	10.034	35.07	1.035	208.11	104	0.373	
32	13C-1,2,3,4,6,7,8-HpCDF	1.03e6	0.45	NO	0.771	10.034	36.78	1.085	209.17	105	0.393	
33	13C-1,2,3,4,7,8,9-HpCDF	7.90e5	0.44	NO	0.519	10.034	38.82	1.146	237.42	119	0.584	
34	13C-OCDF	1.92e6	0.89	NO	0.696	10.034	41.41	1.222	431.02	108	0.374	
35	37Cl-2,3,7,8-TCDD	5.53e5			1.17	10.034	25.80	1.029	79.350	99.5	0.0613	
36	13C-1,2,3,4-TCDD	1.18e6	0.79	NO	1.00	10.034	25.06	1.000	199.33	100	0.232	
37	13C-1,2,3,4-TCDF	1.83e6	0.80	NO	1.00	10.034	23.22	1.000	199.33	100	0.294	
38	13C-1,2,3,4,6,9-HxCDF	1.28e6	0.52	NO	1.00	10.034	33.89	1.000	199.33	100	0.326	
39	Total Tetra-Dioxins				0.983	10.034			0.14382		0.0782	0.144
40	Total Penta-Dioxins				0.921	10.034			0.00000		0.0248	0.0696
41	Total Hexa-Dioxins				0.984	10.034			0.51858		0.106	0.696
42	Total Hepta-Dioxins				1.01	10.034			2.8786		0.181	2.88
43	Total Tetra-Furans				0.915	10.034			0.072498		0.0606	0.0725
44	1st Func. Penta-Furans				0.959	10.034					0.0152	
45	Total Penta-Furans				0.959	10.034			0.22434		0.0734	0.373
46	Total Hexa-Furans				1.09	10.034			0.18479		0.0780	0.468
47	Total Hepta-Furans				1.05	10.034			0.22470		0.108	0.482

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200307R1\200307R1-10.qld

Last Altered: Monday, March 23, 2020 3:30:50 PM Pacific Daylight Time

Printed: Monday, March 23, 2020 3:31:50 PM Pacific Daylight Time

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

Name: 200307R1_10, Date: 07-Mar-2020, Time: 16:51:01, ID: 2000144-04 PDI-059SC-A-12-13-191016 13.26, Description: PDI-059SC-A-12-13-191016, Task: ST200307R1_1

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.43	6.574e3	8.284e3	4.437e2	5.859e2	0.76	NO	1.030e3	0.14382	0.14382	0.0782

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.19	3.399e3	8.530e3	1.979e2	2.358e2	0.84	YES	0.000e0	0.00000	0.069593	0.0626

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.90	2.275e4	1.994e4	1.458e3	1.200e3	1.21	NO	2.659e3	0.51858	0.51858	0.106
2	Total Hexa-Dioxins	33.71	1.041e4	6.731e3	6.693e2	4.051e2	1.65	YES	0.000e0	0.00000	0.17699	0.106

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.19	4.563e4	4.152e4	3.925e3	3.638e3	1.08	NO	7.562e3	1.5901	1.5901	0.181
2	1,2,3,4,6,7,8-HpCDD	38.23	3.822e4	3.423e4	3.189e3	2.940e3	1.08	NO	6.128e3	1.2886	1.2886	0.181

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	2,3,7,8-TCDF	24.81	4.620e3	5.992e3	3.117e2	3.631e2	0.86	NO	6.748e2	0.072498	0.072498	0.0606

Penta-Furans function 1

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

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200307R1\200307R1-10.qld

Last Altered: Monday, March 23, 2020 3:30:50 PM Pacific Daylight Time

Printed: Monday, March 23, 2020 3:31:50 PM Pacific Daylight Time

Name: 200307R1_10, Date: 07-Mar-2020, Time: 16:51:01, ID: 2000144-04 PDI-059SC-A-12-13-191016 13.26, Description: PDI-059SC-A-12-13-191016, Task: ST200307R1_1

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.64	6.802e3	3.739e3	4.277e2	3.388e2	1.26	YES	0.000e0	0.00000	0.084860	0.0734
2	1,2,3,7,8-PeCDF	29.66	1.108e4	7.662e3	6.372e2	4.231e2	1.51	NO	1.060e3	0.12699	0.12699	0.0733
3	Total Penta-Furans	29.74	4.693e3	8.616e3	3.227e2	3.510e2	0.92	YES	0.000e0	0.00000	0.064021	0.0734
4	2,3,4,7,8-PeCDF	30.68	7.449e3	4.788e3	5.043e2	3.341e2	1.51	NO	8.384e2	0.097343	0.097343	0.0702

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	33.05	4.920e3	4.919e3	3.708e2	3.366e2	1.10	NO	7.073e2	0.099700	0.099700	0.0780
2	1,2,3,4,7,8-HxCDF	33.53	1.515e4	1.245e4	9.399e2	9.014e2	1.04	YES	1.841e3	0.00000	0.25141	0.0729
3	1,2,3,7,8,9-HxCDF	35.08	6.425e3	6.890e3	2.632e2	2.471e2	1.07	NO	5.104e2	0.085093	0.085093	0.109
4	Total Hexa-Furans	35.12	3.489e3	5.927e3	1.247e2	1.496e2	0.83	YES	0.000e0	0.00000	0.031761	0.0780

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.82	6.365e3	7.090e3	6.187e2	6.022e2	1.03	NO	1.221e3	0.22470	0.22470	0.0975
2	Total Hepta-Furans	37.41	7.300e3	6.426e3	5.783e2	6.529e2	0.89	NO	0.000e0	0.00000	0.25681	0.108

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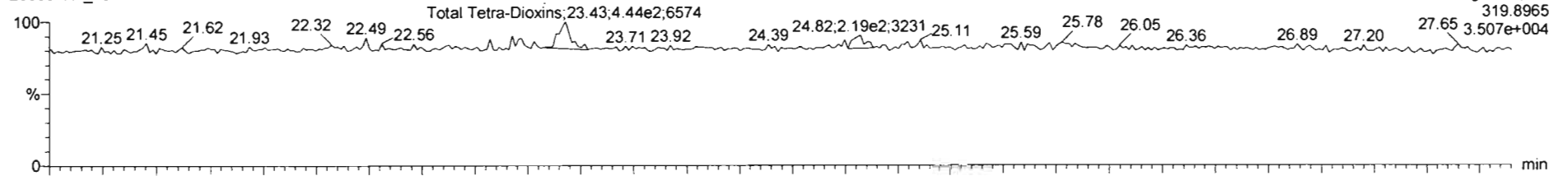
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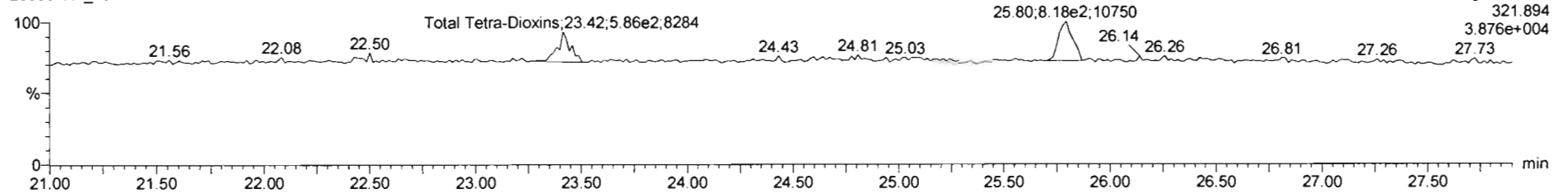
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2,3,7,8-TCDD

200307R1_10

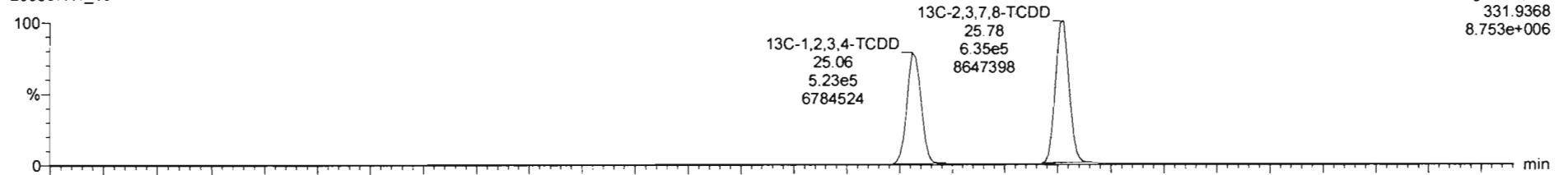


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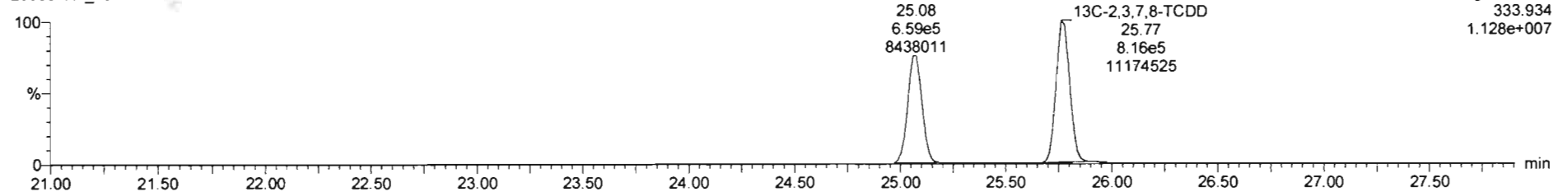


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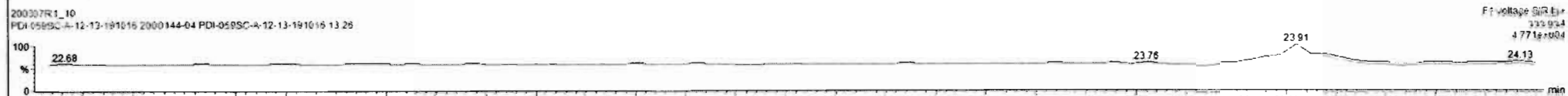
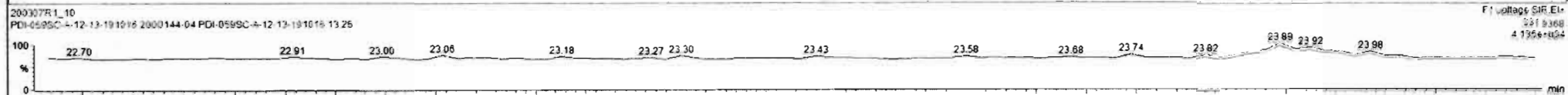
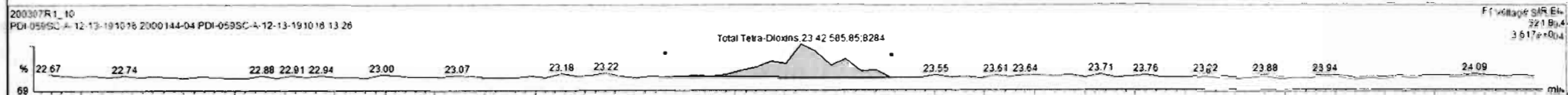
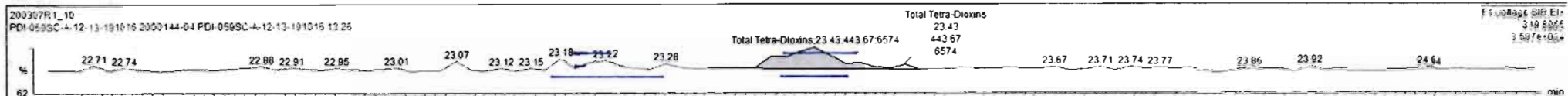
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200307R1_10 - 2000144-04 PDI-059SC-A-12-13-191016 13:26 - PDI-059SC-A-12-13-191016

Name	Resp	RA	n/y	RRF	wtvol	RT	RRT	Conc.	%Rec	DL	EMPC
22	13C-1,2,3,7,8-HxCDD	1.06e6	1.28	NO	0.83	10.034	34.73	1.025	200	100	0.321
23	13C-1,2,3,4,6,7,8-HpCDD	9.42e5	1.05	NO	0.60	10.034	38.19	1.127	246	123	0.485
24	13C-OCDD	1.57e6	0.90	NO	0.57	10.034	41.23	1.217	430	108	0.454
25	13C-2,3,7,8-TCDF	2.03e6	0.79	NO	1.09	10.034	24.81	0.990	203	102	0.270
26	13C-1,2,3,7,8-PeCDF	1.73e6	1.60	NO	0.88	10.034	29.63	1.182	216	105	0.470
27	13C-2,3,4,7,8-PeCDF	1.71e6	1.58	NO	0.84	10.034	30.65	1.223	221	111	0.488
28	13C-1,2,3,4,7,8-HxCDF	1.39e6	0.51	NO	1.00	10.034	33.51	0.989	202	101	0.328
29	13C-1,2,3,6,7,8-HxCDF	1.40e6	0.52	NO	1.12	10.034	33.63	0.992	195	97.8	0.292

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	23.43	4.437e2	5.859e2	0.76	NO	0.14400	0.14382



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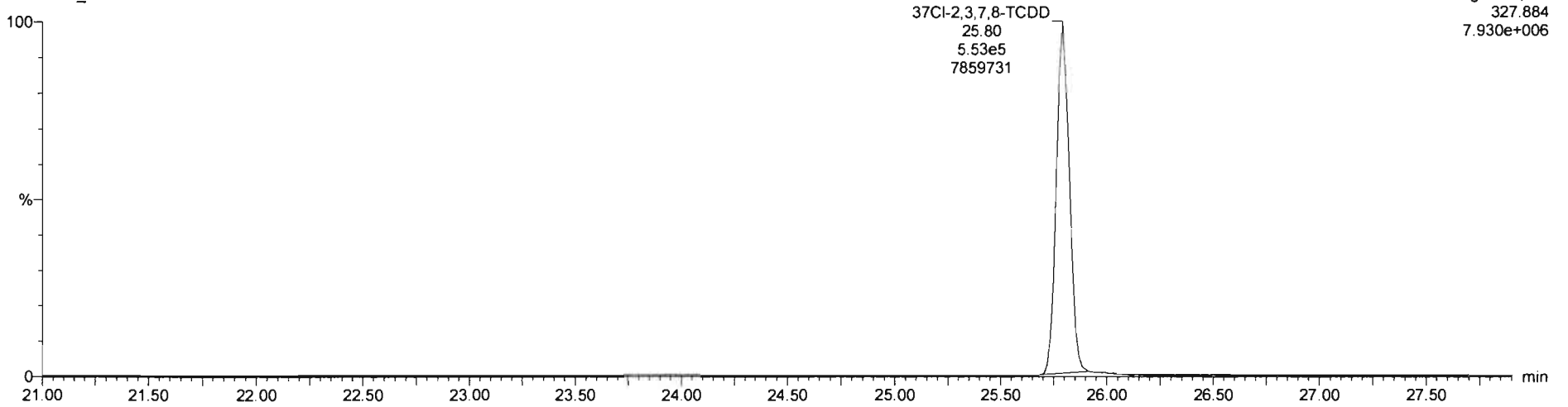
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Name: 200307R1_10, Date: 07-Mar-2020, Time: 16:51:01, ID: 2000144-04 PDI-059SC-A-12-13-191016 13.26, Description: PDI-059SC-A-12-13-191016

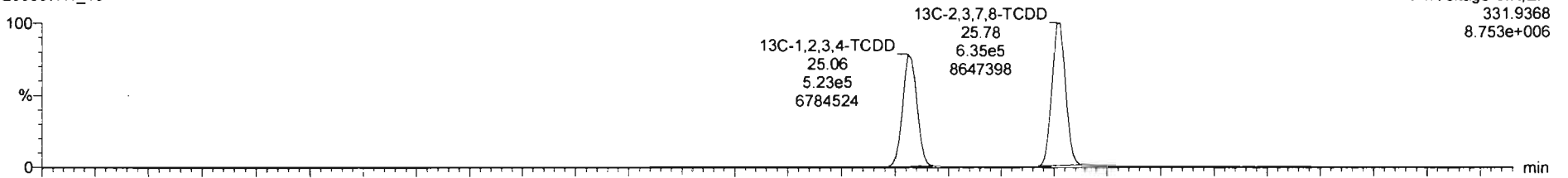
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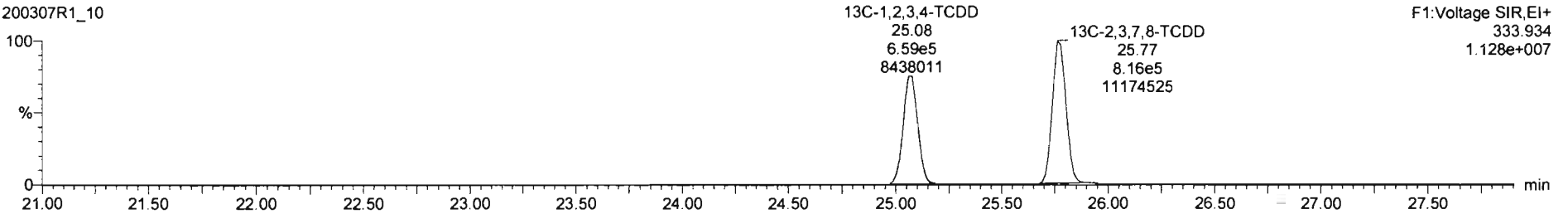


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200307R1_10



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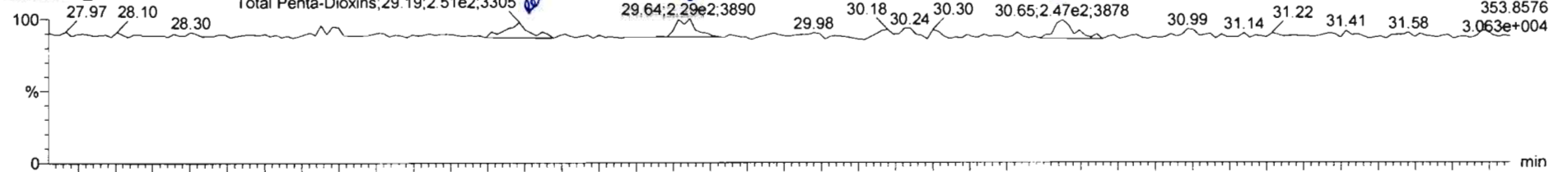
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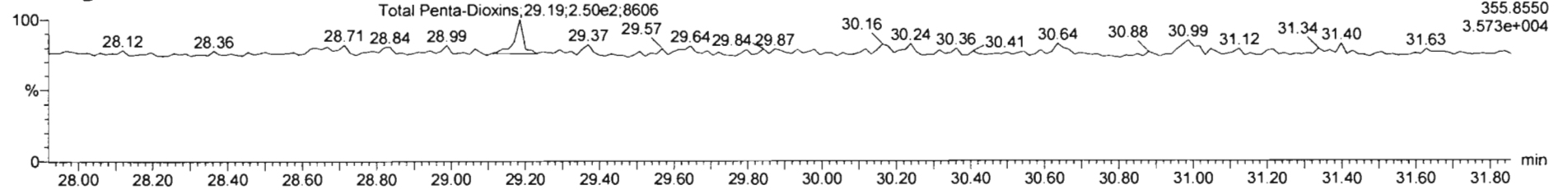
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1,2,3,7,8-PeCDD

200307R1_10

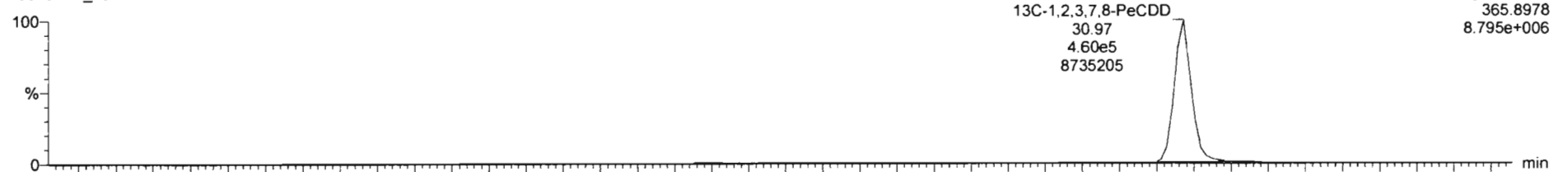


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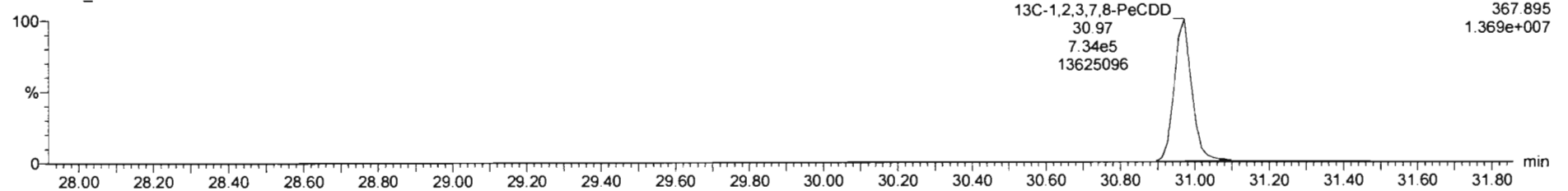


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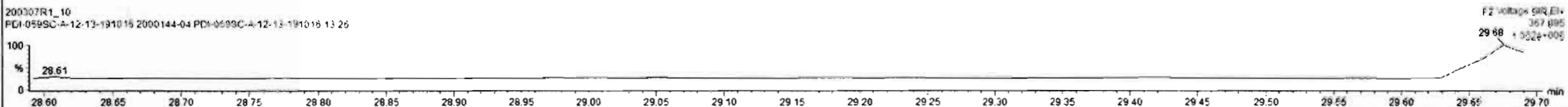
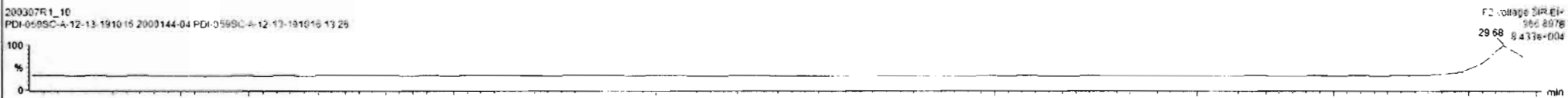
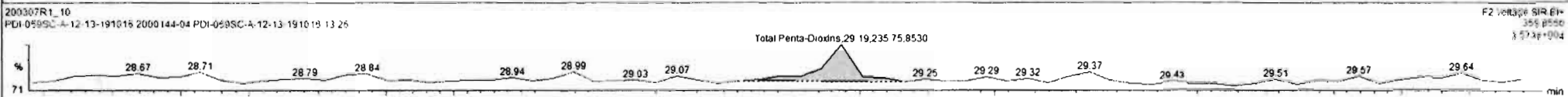
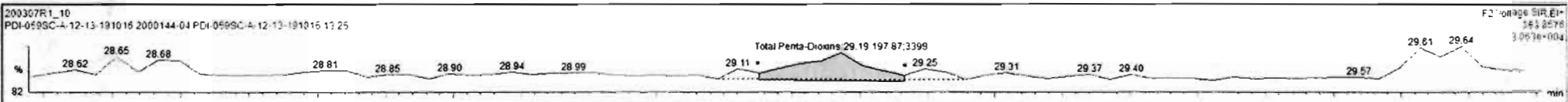


200307R1_10



#	Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
40	Total Penta-Dioxins				0.92	10.034			0.000	0.0248	0.0198	
41	Total Hexa-Dioxins				0.98	10.034			0.519	0.106	0.519	
42	Total Hepta-Dioxins				1.01	10.034			2.88	0.181	2.88	
43	Total Tetra-Furans				0.92	10.034			0.0725	0.0606	0.149	
44	1st Func. Penta-Furans				0.96	10.034				0.0152		
45	Total Penta-Furans				0.96	10.034			0.317	0.0734	0.393	
46	Total Hexa-Furans				1.09	10.034			0.100	0.0780	0.300	
47	Total Hepta-Furans				1.05	10.034			0.000	0.0550	0.376	

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Penta-Dioxins	29.19	1.979e2	2.358e2	0.64	YES	0.069593	0.00000



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200307R1_10 CAP NUM

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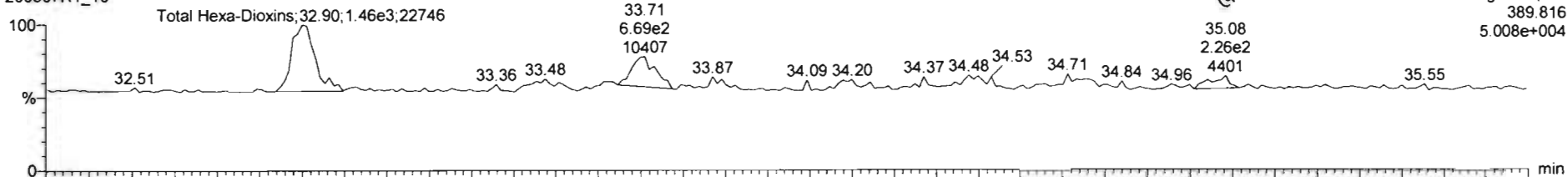
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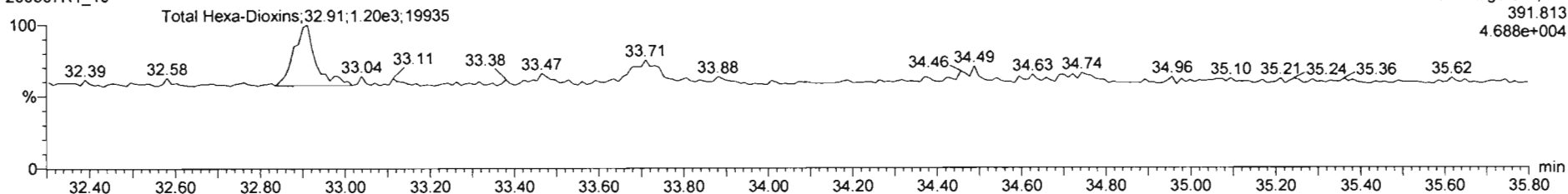
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1,2,3,4,7,8-HxCDD

200307R1_10

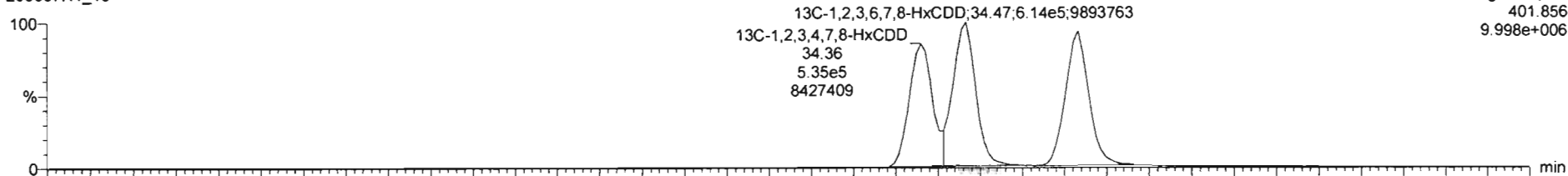


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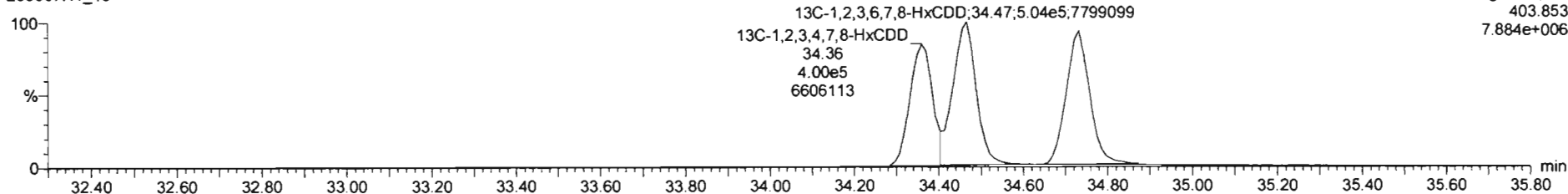


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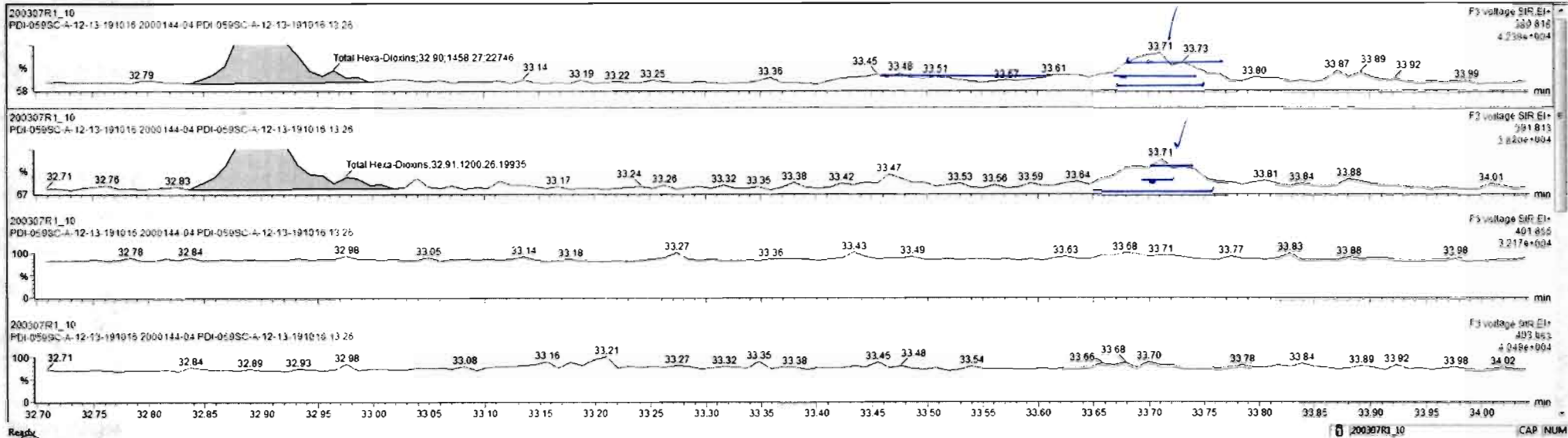
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200307R1_10 2000144-04 PDI-059SC-A-12-13-191016 13 26 PDI-059SC-A-12-13-191016

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.92	10.034			0.000	0.0248	0.0696	
41 Total Hexa-Dioxins				0.98	10.034			0.519	0.106	0.519	
42 Total Hepta-Dioxins				1.01	10.034			2.88	0.181	2.88	
43 Total Tetra-Furans				0.92	10.034			0.0725	0.0606	0.149	
44 1st Func. Penta-Furans				0.96	10.034				0.0152		
45 Total Penta-Furans				0.66	10.034			0.317	0.0734	0.393	
46 Total Hexa-Furans				1.09	10.034			0.100	0.0780	0.300	
47 Total Hepta-Furans				1.05	10.034			0.000	0.0550	0.376	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	32.90	1.458e3	1.200e3	1.21	NO	0.51858	0.51856



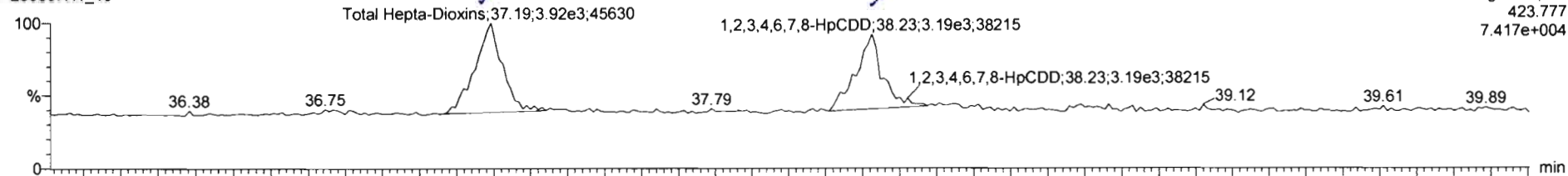
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Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

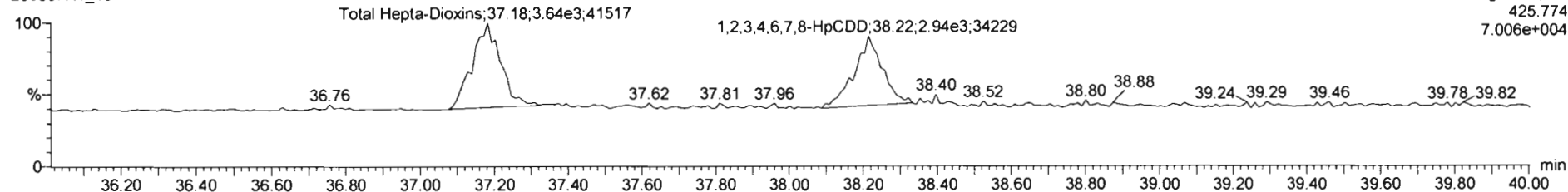
Name: 200307R1_10, Date: 07-Mar-2020, Time: 16:51:01, ID: 2000144-04 PDI-059SC-A-12-13-191016 13.26, Description: PDI-059SC-A-12-13-191016

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

200307R1_10

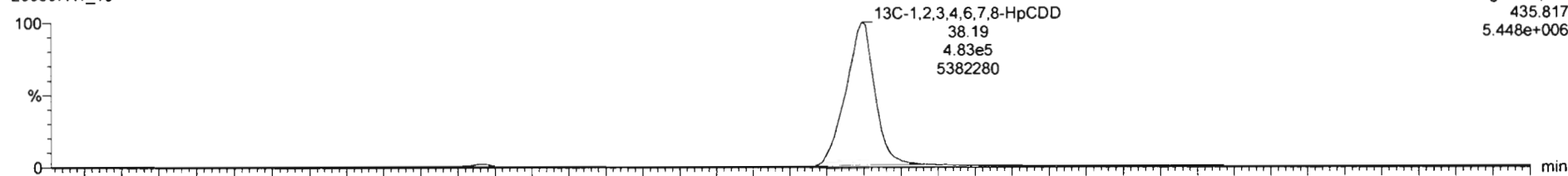


200307R1_10

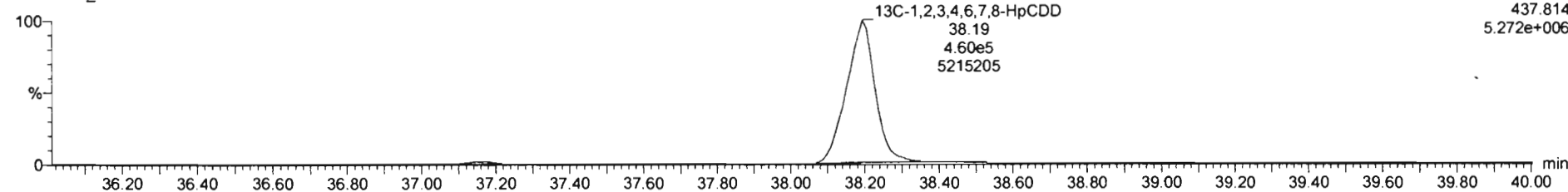


13C-1,2,3,4,6,7,8-HpCDD

200307R1_10



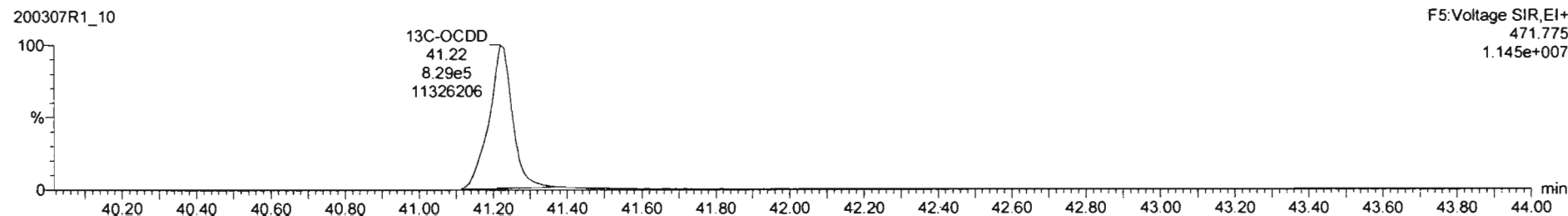
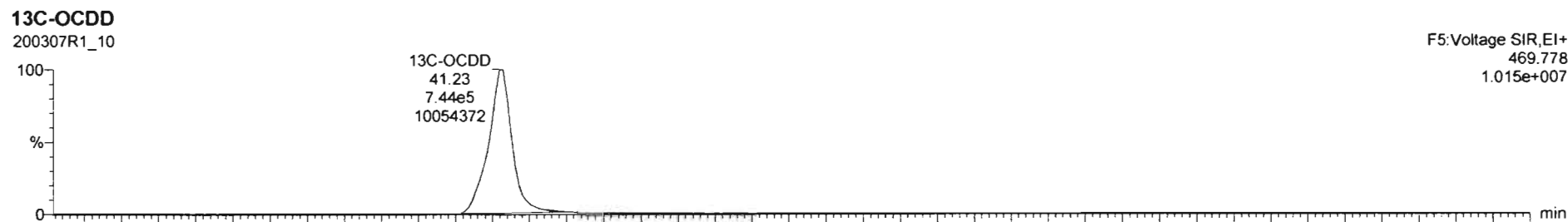
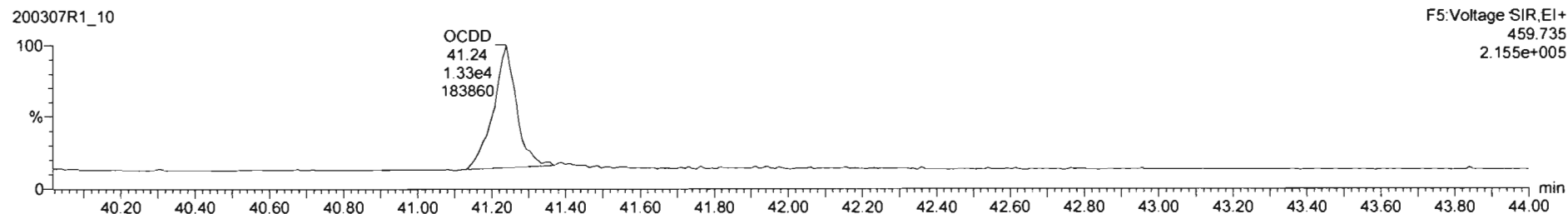
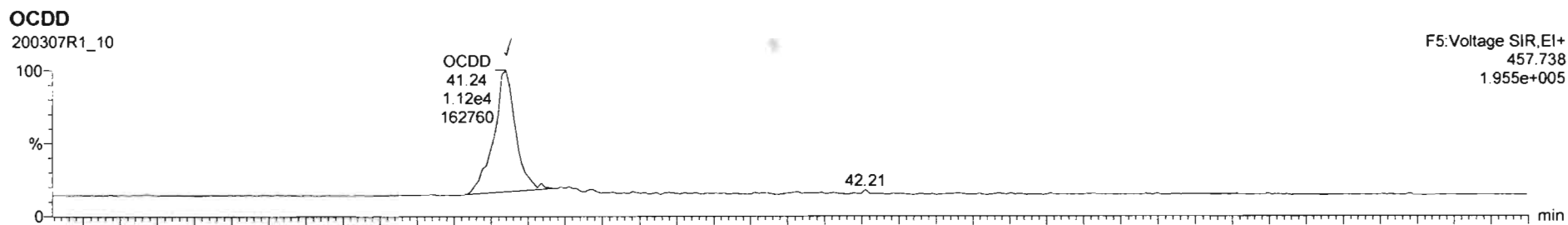
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Name: 200307R1_10, Date: 07-Mar-2020, Time: 16:51:01, ID: 2000144-04 PDI-059SC-A-12-13-191016 13.26, Description: PDI-059SC-A-12-13-191016

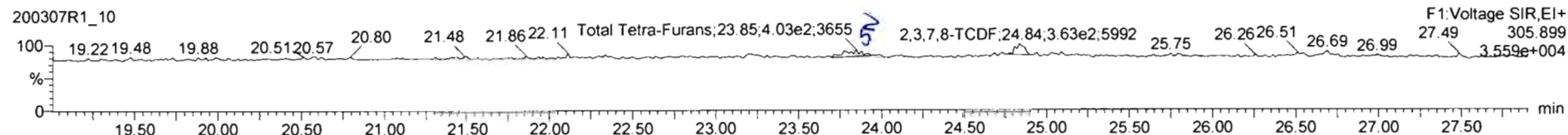
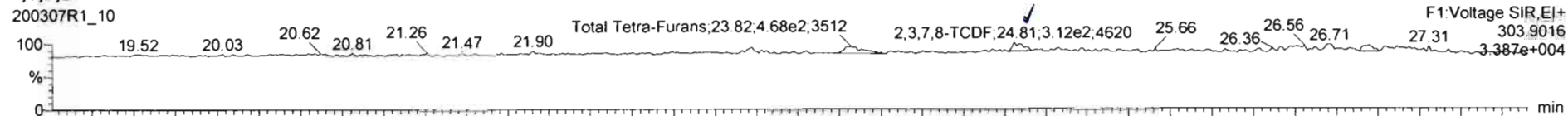


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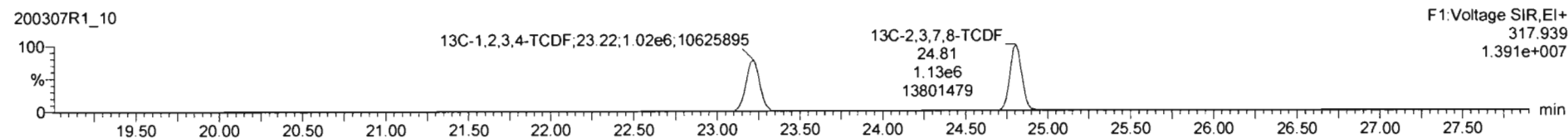
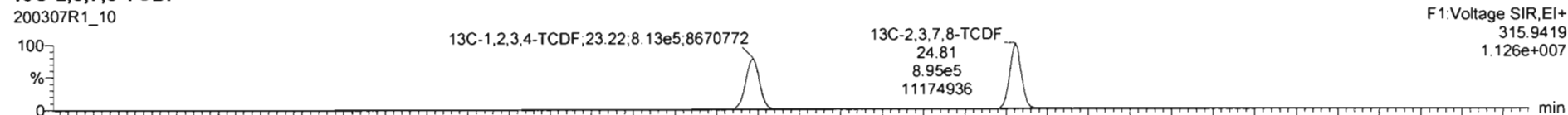
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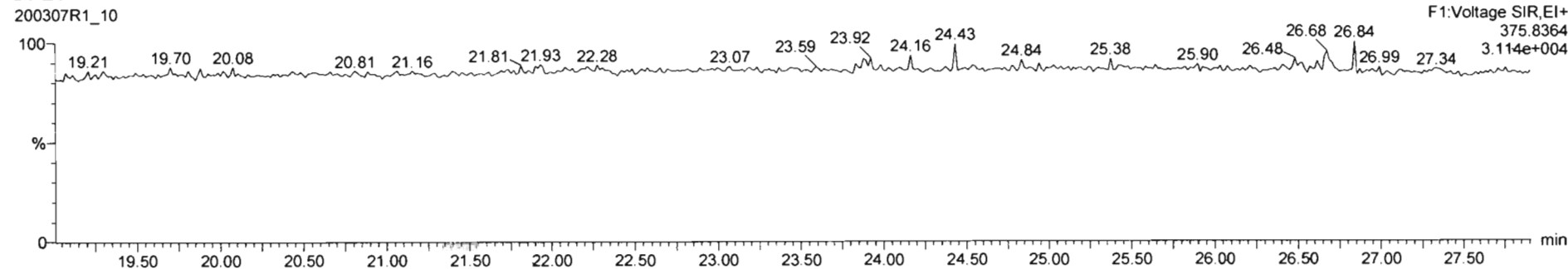
2,3,7,8-TCDF



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



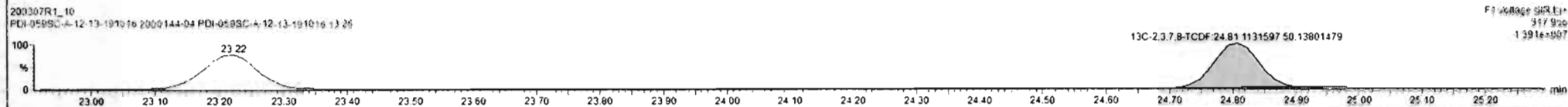
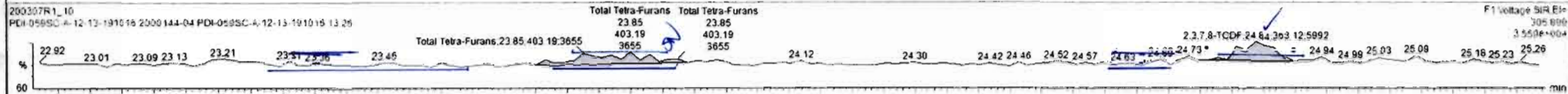
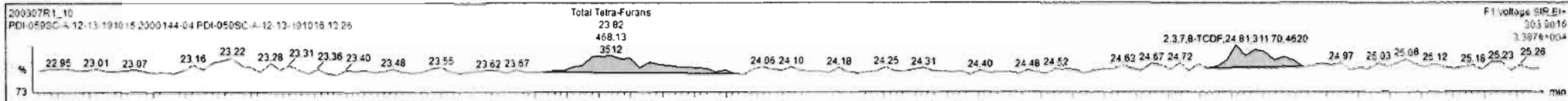
DPE1



200307R1_10 2000144-04 PDI-059SC-A-12-13-191016 13.26 PDI-059SC-A-12-13-191016

Name	Resp	RA	rvy	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.92	10.034			0.000	0.0248	0.0696	
41 Total Hexa-Dioxins				0.98	10.034			0.519	0.106	0.696	
42 Total Hepta-Dioxins				1.01	10.034			2.68	0.181	2.68	
43 Total Tetra-Furans				0.92	10.034			0.0725	0.0606	0.149	
44 1st Func. Penta-Furans				0.96	10.034				0.0152		
45 Total Penta-Furans				0.96	10.034			0.317	0.0734	0.393	
46 Total Hexa-Furans				1.09	10.034			0.100	0.0780	0.300	
47 Total Hepta-Furans				1.05	10.034			0.000	0.0550	0.376	

Name	RT	m1 Resp	m2 Resp	RA	rvy	EMPC	Conc.
1 Total Tetra-Furans	23.62	4.681e2	4.032e2	1.16	YES	0.075669	0.00000
2 2,3,7,8-TCDF	24.81	3.117e2	3.631e2	0.86	NO	0.072498	0.072498



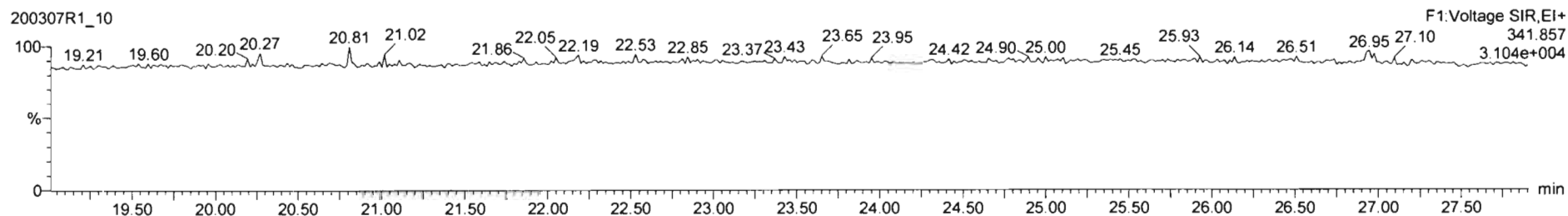
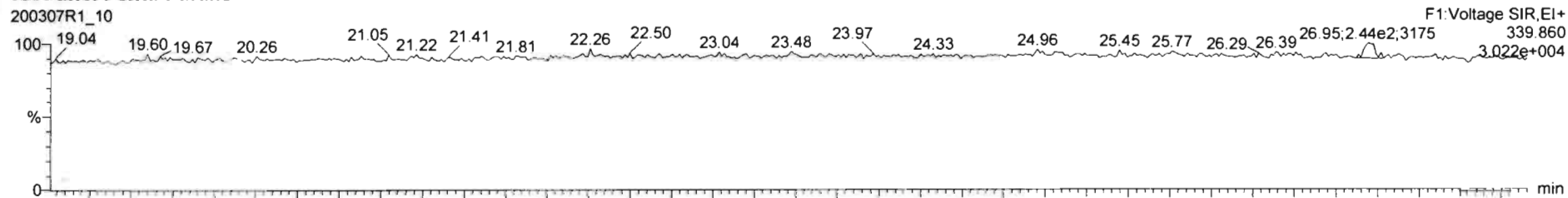
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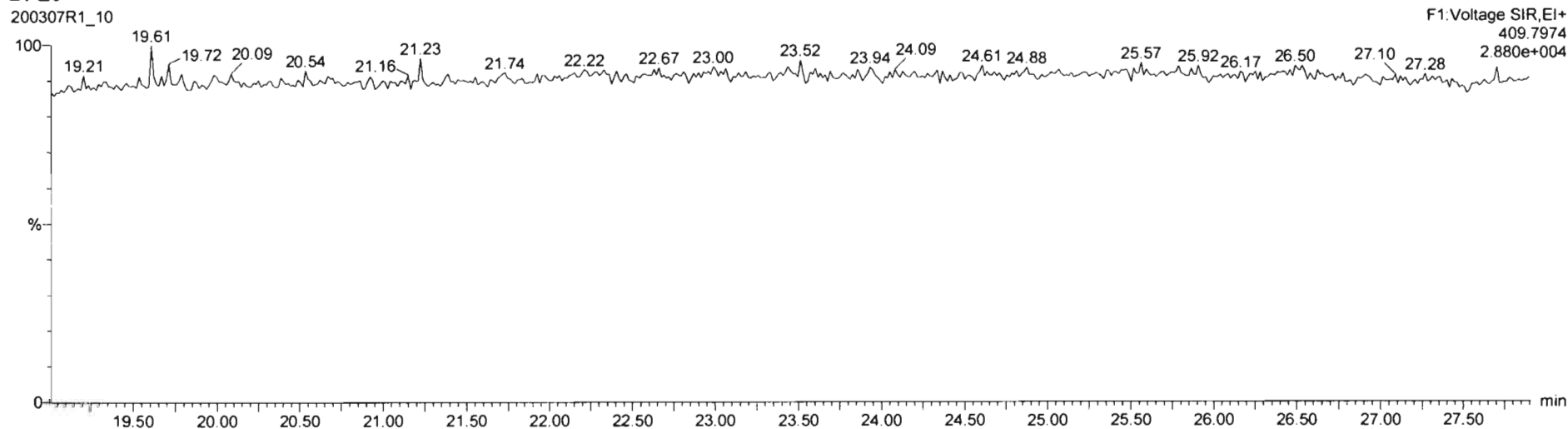
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Name: 200307R1_10, Date: 07-Mar-2020, Time: 16:51:01, ID: 2000144-04 PDI-059SC-A-12-13-191016 13.26, Description: PDI-059SC-A-12-13-191016

1st Func. Penta-Furans



DPE6

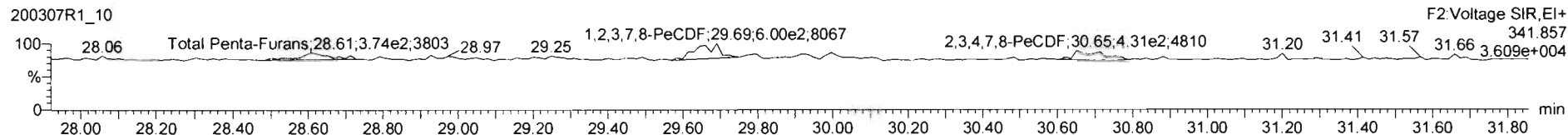
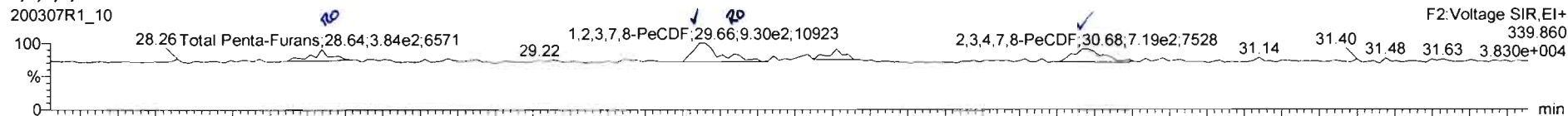


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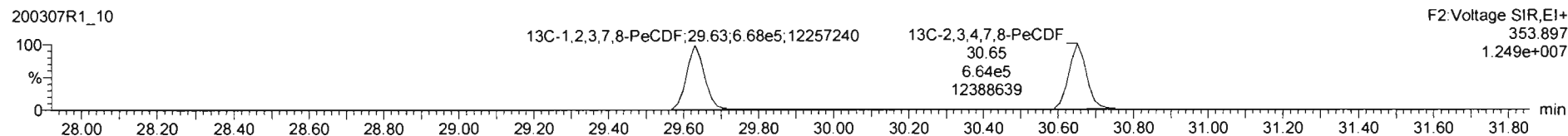
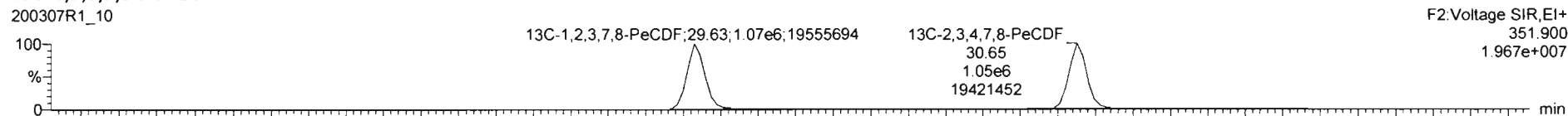
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Name: 200307R1_10, Date: 07-Mar-2020, Time: 16:51:01, ID: 2000144-04 PDI-059SC-A-12-13-191016 13.26, Description: PDI-059SC-A-12-13-191016

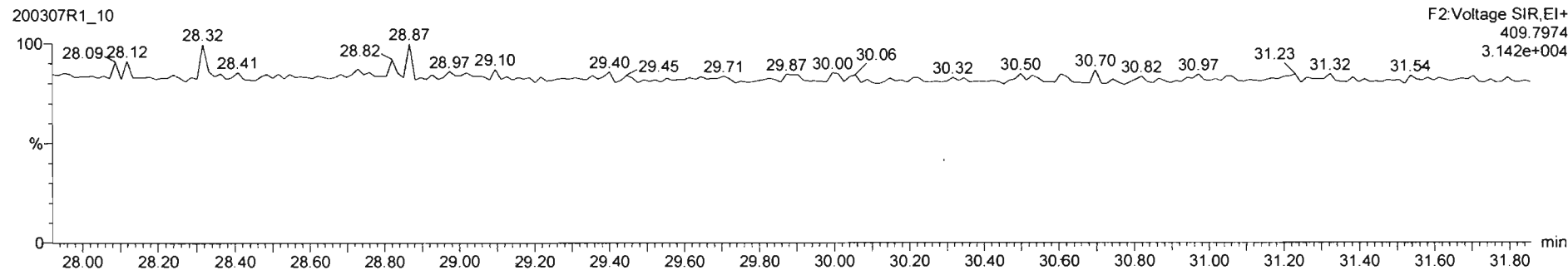
1,2,3,7,8-PeCDF



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



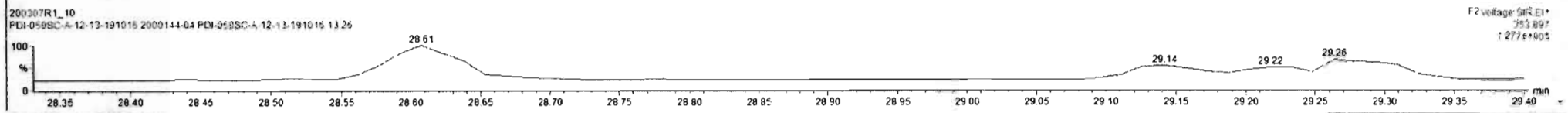
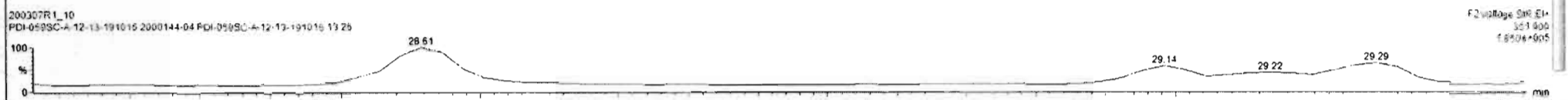
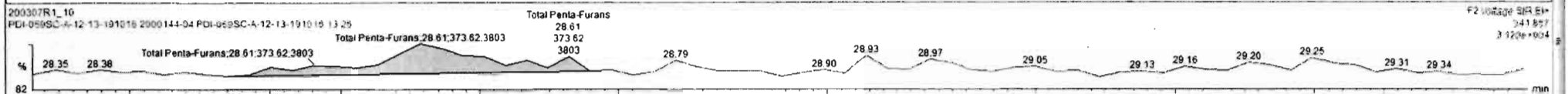
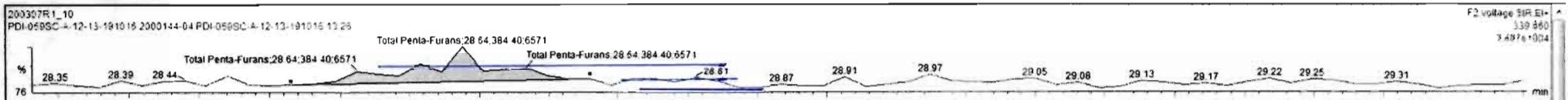
DPE2



200307R1_10 - 2000144-04 PDI-059SC-A-12-13-191016 13 26 - PDI-059SC-A-12-13-191016

Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.92	10.034			0.000	0.0248	0.0656	
41 Total Hexa-Dioxins				0.96	10.034			0.519	0.106	0.656	
42 Total Hepta-Dioxins				1.01	10.034			2.68	0.181	2.68	
43 Total Tetra-Furans				0.92	10.034			0.0725	0.0606	0.0725	
44 1st Func. Penta-Furans				0.96	10.034				0.0152		
45 Total Penta-Furans				0.96	10.034			0.317	0.0734	0.389	
46 Total Hexa-Furans				1.09	10.034			0.100	0.0780	0.300	
47 Total Hepta-Furans				1.05	10.034			0.000	0.0550	0.376	

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Penta-Furans	28.64	3.644e2	3.736e2	1.03	YES	0.076266	0.00000
2 1,2,3,7,8-PeCDF	28.66	9.300e2	6.004e2	1.55	NO	0.18229	0.18328
3 2,3,4,7,8-PeCDF	30.66	7.186e2	4.314e2	1.67	NO	0.13352	0.13352

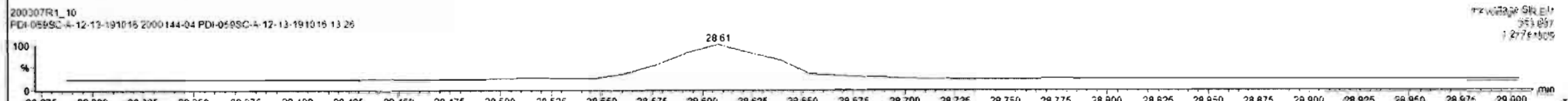
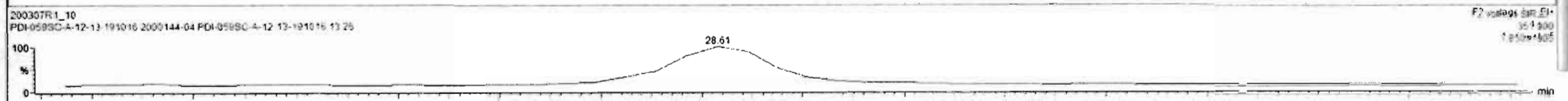
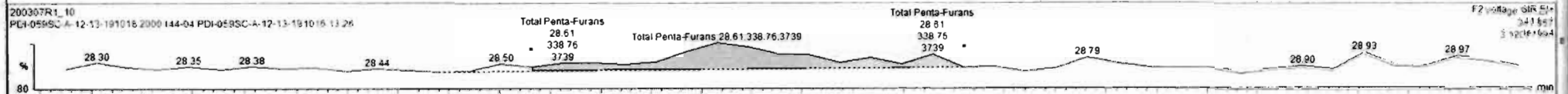
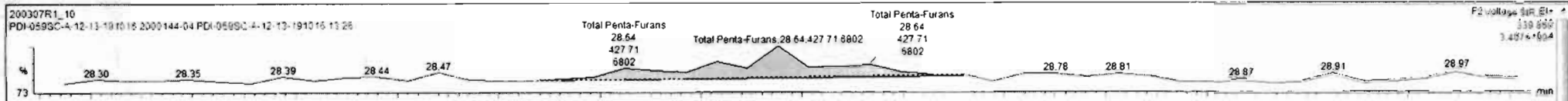


Custom Reporting: Select reports to generate 200307R1_10 CAP NUM

200307R1_10 2000144-04 PDI-059SC-A-12-13-191016 13 26 PDI-059SC-A-12-13-191016

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.92	10.034			0.000	0.0248	0.0696	
41 Total Hexa-Dioxins				0.98	10.034			0.519	0.106	0.696	
42 Total Hepta-Dioxins				1.01	10.034			2.88	0.181	2.88	
43 Total Tetra-Furans				0.92	10.034			0.0725	0.0606	0.0725	
44 1st Func. Penta-Furans				0.96	10.034				0.0152		
45 Total Penta-Furans				0.98	10.034			0.317	0.0734	0.402	
46 Total Hexa-Furans				1.09	10.034			0.100	0.0780	0.390	
47 Total Hepta-Furans				1.05	10.034			0.000	0.0550	0.376	

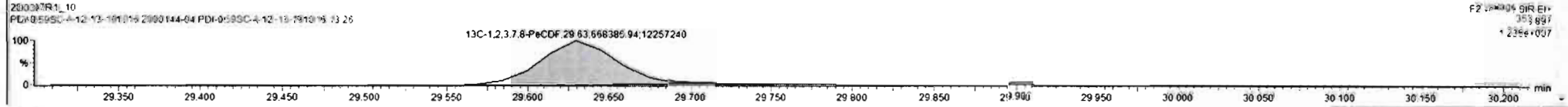
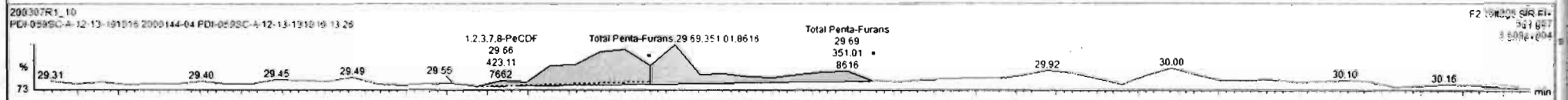
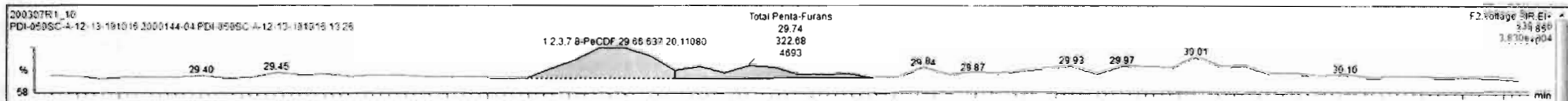
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.64	4.277e2	3.388e2	1.26	YES	0.064060	0.0000
2 1,2,3,7,8-PeCDF	28.66	9.300e2	6.004e2	1.55	NO	0.18329	0.15329
3 2,3,4,7,8-PeCDF	28.66	7.186e2	4.314e2	1.67	NO	0.13352	0.13352



200307R1_10 2000144-04 PDI-059SC-A-12-13-191016 13.26 PDI-059SC-A-12-13-191016

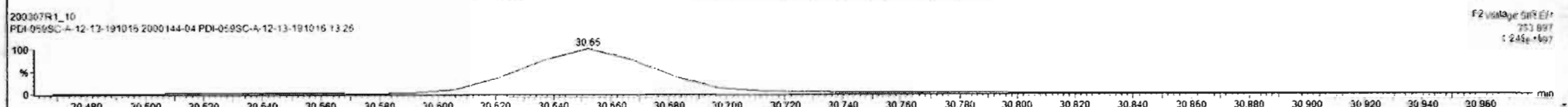
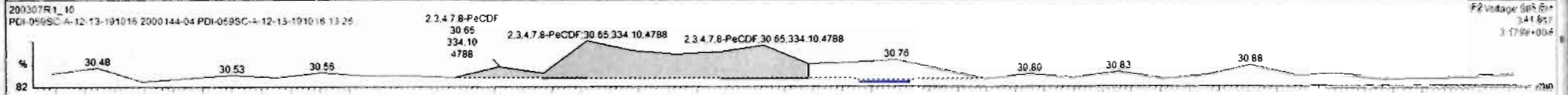
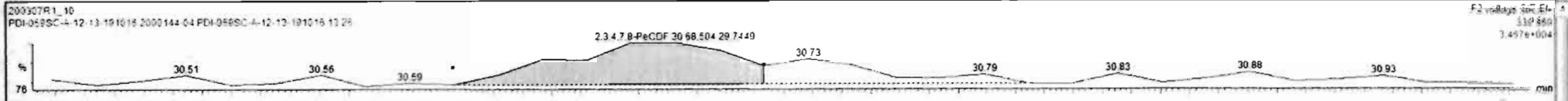
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.92	10.034			0.000	0.0248	0.0696	
41 Total Hexa-Dioxins				0.98	10.034			0.519	0.106	0.696	
42 Total Hepta-Dioxins				1.01	10.034			2.88	0.181	2.88	
43 Total Tetra-Furans				0.92	10.034			0.0725	0.0606	0.0725	
44 Isi Func. Penta-Furans				0.95	10.034				0.0152		
45 Total Penta-Furans				0.96	10.034			0.291	0.0734	0.299	
46 Total Hexa-Furans				1.09	10.034			0.100	0.0780	0.300	
47 Total Hepta-Furans				1.05	10.034			0.000	0.0550	0.376	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.64	4.277e2	3.388e2	1.26	YES	0.064860	0.00000
2 1,2,3,7,8-PeCDF	29.66	6.372e2	4.231e2	1.51	NO	0.12699	0.12699
3 Total Penta-Furans	29.74	3.227e2	3.510e2	0.92	YES	0.064021	0.00000
4 2,3,4,7,8-PeCDF	30.65	7.186e2	4.314e2	1.67	NO	0.13352	0.13352



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.92	10.034			0.000		0.0248	0.0596
41 Total Hexa-Dioxins				0.88	10.034			0.519		0.106	0.696
42 Total Hepta-Dioxins				1.01	10.034			2.88		0.181	2.88
43 Total Tetra-Furans				0.92	10.034			0.0725		0.0606	0.0725
44 1st Func. Penta-Furans				0.96	10.034					0.0152	
45 Total Penta-Furans				0.96	10.034			0.324		0.0734	0.373
46 Total Hexa-Furans				1.09	10.034			0.100		0.0780	0.100
47 Total Hepta-Furans				1.05	10.034			0.600		0.0550	0.378

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.64	4.277e2	3.388e2	1.26	YES	0.084860	0.00000
2 1,2,3,7,8-PeCDF	29.66	6.372e2	4.231e2	1.51	NO	0.12699	0.12699
3 Total Penta-Furans	29.74	3.227e2	3.510e2	0.92	YES	0.064021	0.00000
4 2,3,4,7,8-PeCDF	30.68	5.043e2	3.341e2	1.51	NO	0.097343	0.097343



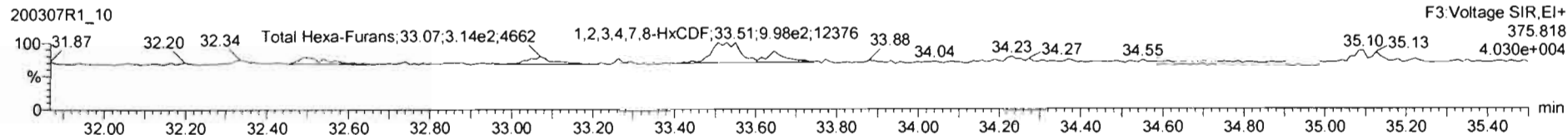
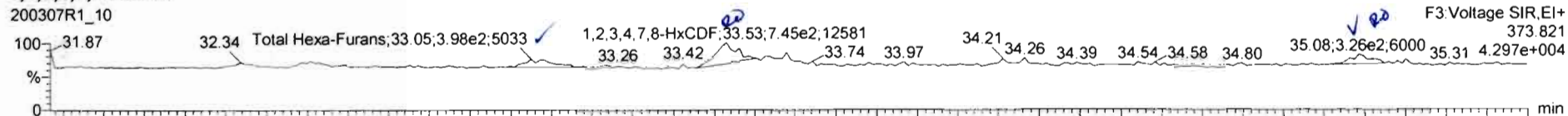
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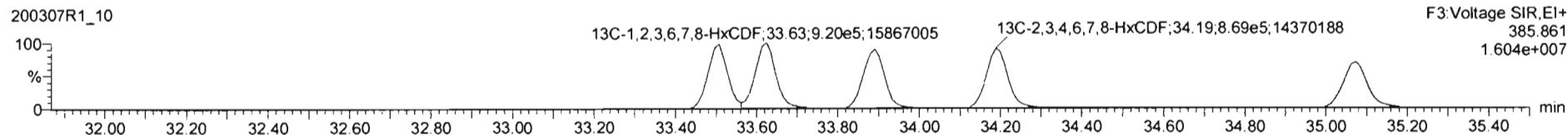
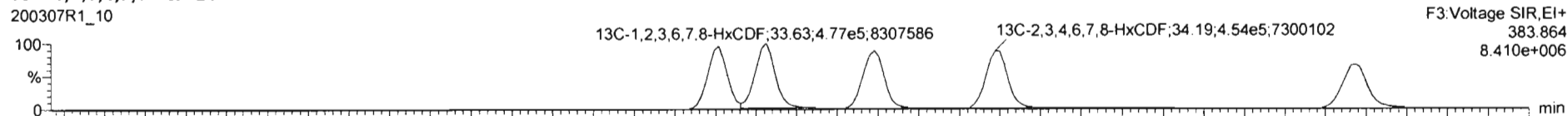
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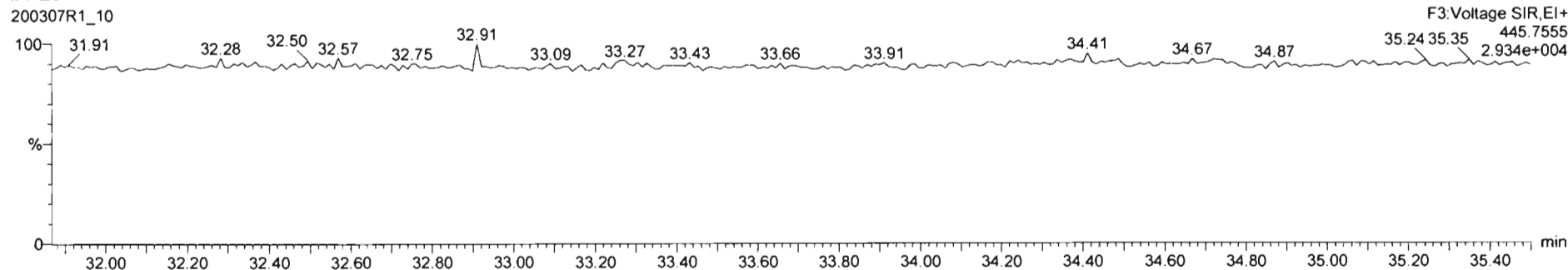
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13C-1,2,3,4,7,8-HxCDF

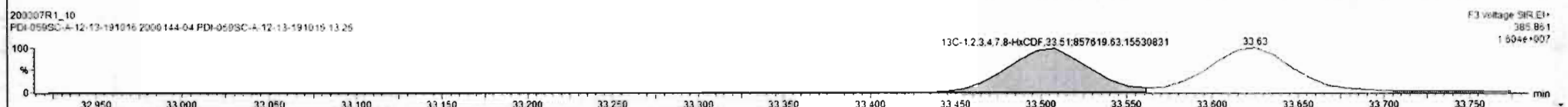
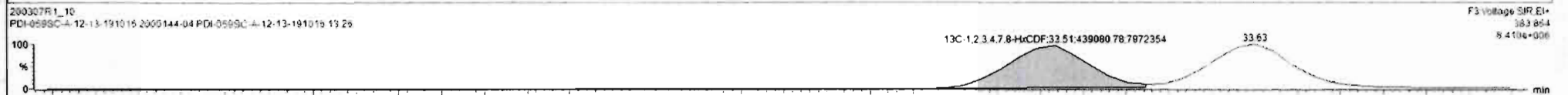
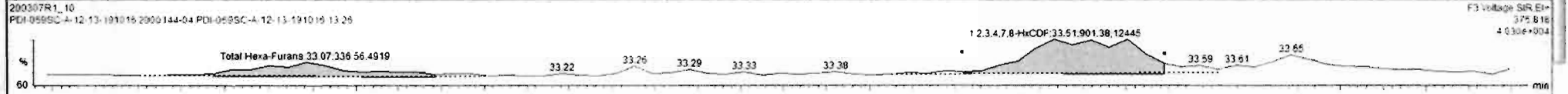
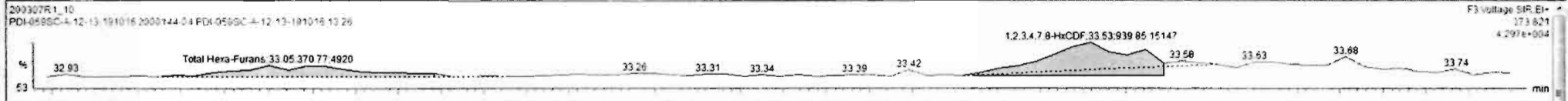


DPE3



Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc.	%Rec	DI	EMPC
40 Total Penta-Dioxins				0.92	10.034			0.000		0.0248	0.0566
41 Total Hexa-Dioxins				0.88	10.034			0.519		0.106	0.696
42 Total Hepta-Dioxins				1.01	10.034			2.68		0.181	2.88
43 Total Tetra-Furans				0.92	10.034			0.9725		0.0606	0.0725
44 1st Func. Penta-Furans				0.96	10.034					0.0152	
45 Total Penta-Furans				0.96	10.034			0.224		0.0734	0.373
46 Total Hexa-Furans				1.09	10.034			0.0997		0.0780	0.351
47 Total Hepta-Furans				1.05	10.034			0.000		0.0550	0.376

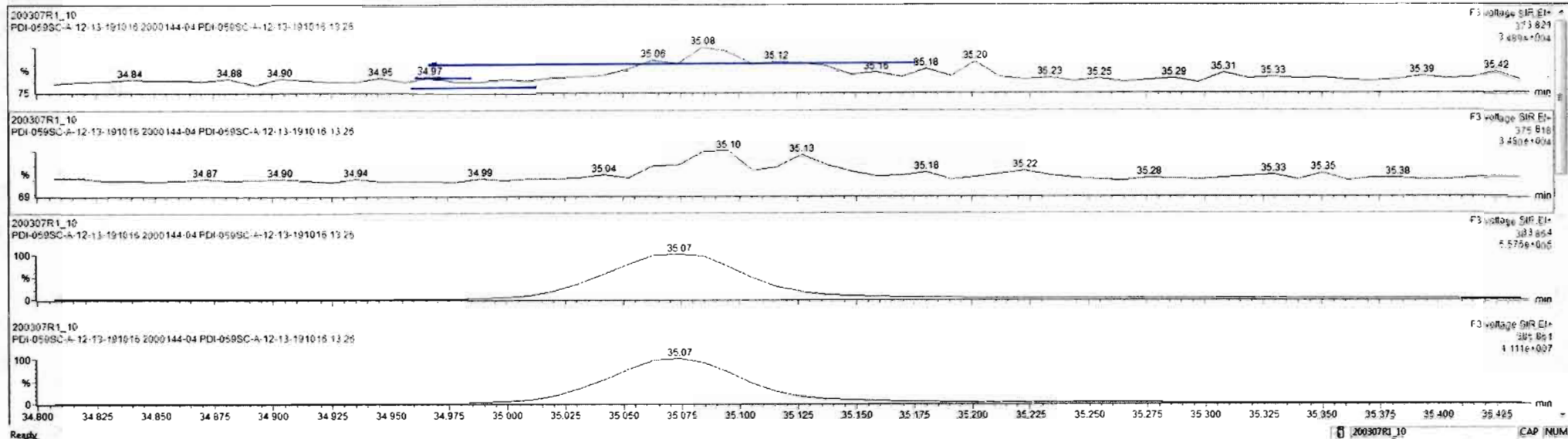
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Hexa-Furans	33.05	3.706e2	3.306e2	1.10	NO	0.099700	0.099700
2 1,2,3,4,7,8-HxCDF	33.53	9.399e2	9.014e2	1.04	YES	0.25141	0.00000



Custom Reporting: Select reports to generate

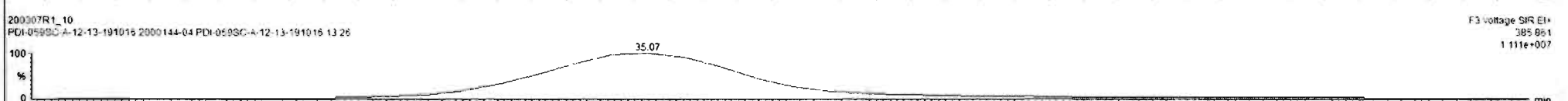
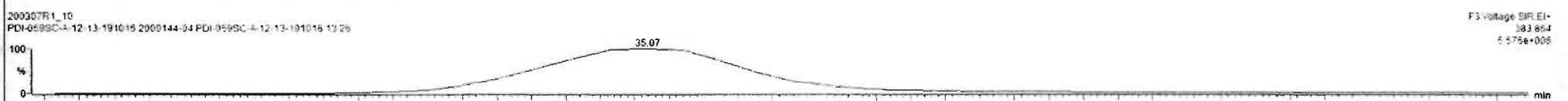
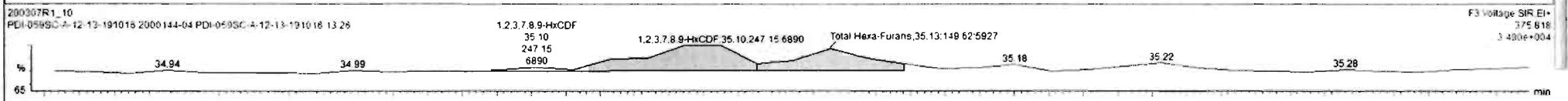
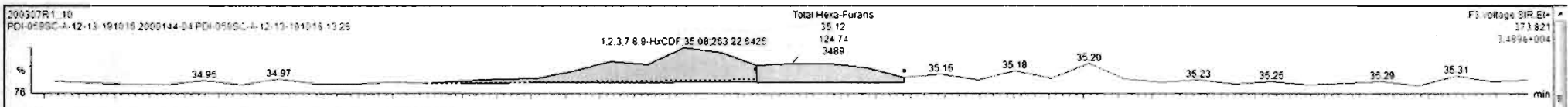
Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc.	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.92	10.034			0.000	0.0248	0.0596	
41 Total Hexa-Dioxins				0.88	10.034			0.519	0.106	0.696	
42 Total Hepta-Dioxins				1.01	10.034			2.88	0.181	2.88	
43 Total Tetra-Furans				0.92	10.034			0.9725	0.0606	0.9725	
44 1st Func. Penta-Furans				0.96	10.034				0.0152		
45 Total Penta-Furans				0.96	10.034			0.224	0.0734	0.373	
46 Total Hexa-Furans				1.09	10.034			0.6937	0.0780	0.351	
47 Total Hepta-Furans				1.05	10.034			0.000	0.0550	0.378	

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Hexa-Furans	33.05	3.706e2	3.366e2	1.10	NO	0.099700	0.099700
2 1,2,3,4,7,8-HxCDF	33.53	9.399e2	9.014e2	1.04	YES	0.25141	0.00000



Name	Resp	RA	n/y	RRF	wt/wt	RT	RRT	Conc.	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.92	10.034			0.000	0.0248	0.0696	
41 Total Hexa-Dioxins				0.98	10.034			0.519	0.106	0.696	
42 Total Hepta-Dioxins				1.01	10.034			2.68	0.181	2.88	
43 Total Tetra-Furans				0.92	10.034			0.0725	0.0606	0.0725	
44 1st Func. Penta-Furans				0.96	10.034				0.152		
45 Total Penta-Furans				0.96	10.034			0.224	0.0734	0.373	
46 Total Hexa-Furans				1.09	10.034			0.165	0.0780	0.468	
47 Total Hepta-Furans				1.05	10.034			0.000	0.6580	0.376	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	33.05	3.736e2	3.366e2	1.10	NO	0.099700	0.099700
2 1,2,3,4,7,8-HxCDF	33.53	9.399e2	9.014e2	1.04	YES	0.25141	0.00000
3 1,2,3,7,8,9-HxCDF	35.06	2.632e2	2.471e2	1.07	NO	0.085093	0.085093
4 Total Hexa-Furans	35.12	1.247e2	1.496e2	0.83	YES	0.031761	0.00000

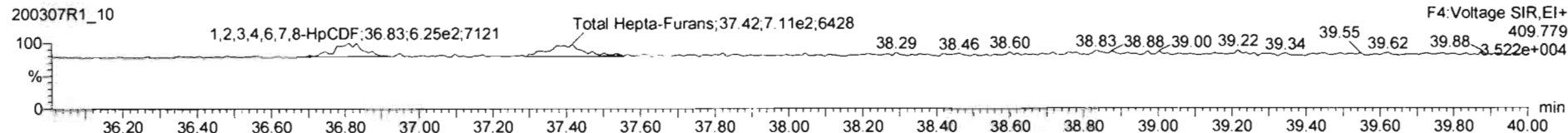
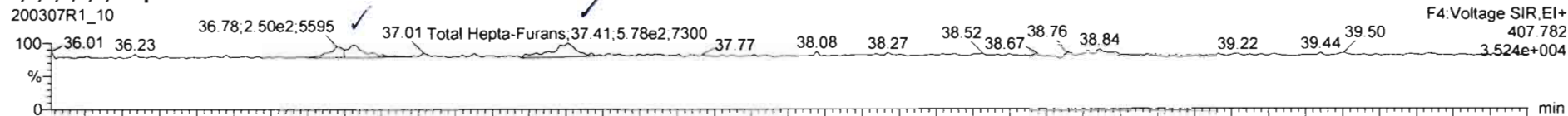


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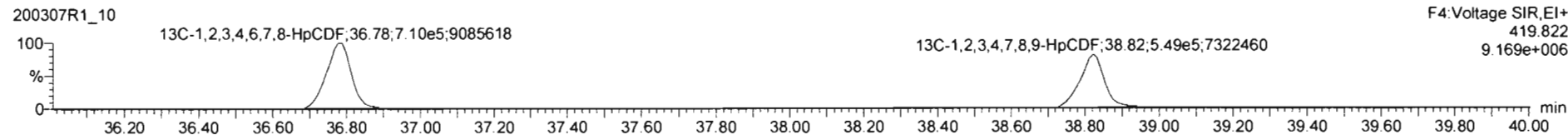
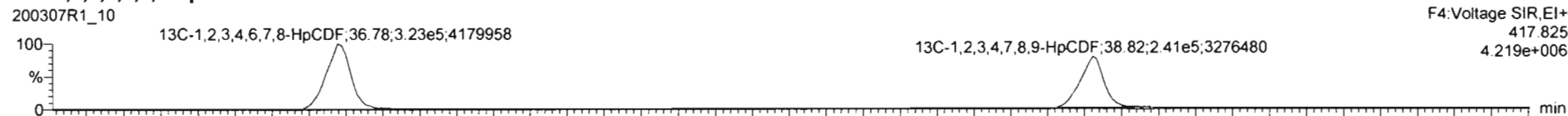
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Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

Name: 200307R1_10, Date: 07-Mar-2020, Time: 16:51:01, ID: 2000144-04 PDI-059SC-A-12-13-191016 13.26, Description: PDI-059SC-A-12-13-191016

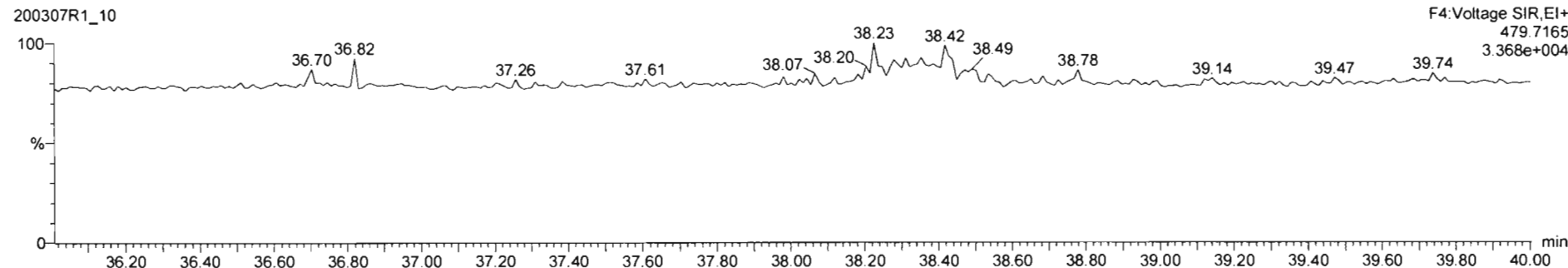
1,2,3,4,6,7,8-HpCDF



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



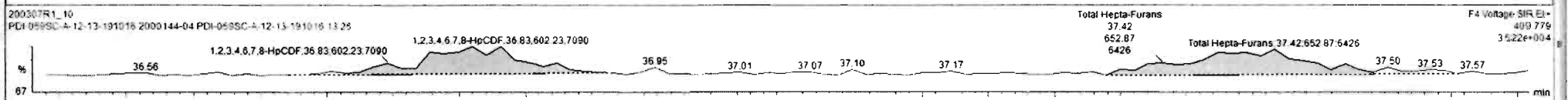
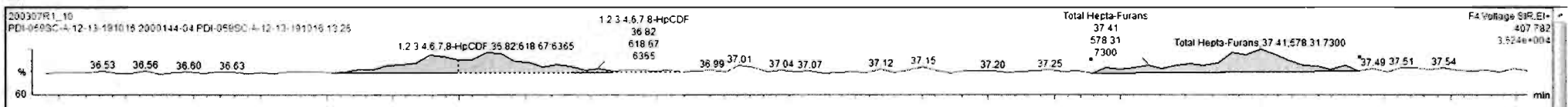
DPE4



200307R1_10 - 2000144-04 PDI-059SC-A-12-13-191016 13 26 - PDI-059SC-A-12-13-191016

Name	Resp	RA	nly	RRF	withol	RT	RRT	Conc.	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.92	10.034			0.000		0.0248	0.0596
41 Total Hexa-Dioxins				0.88	10.034			0.519		0.108	0.696
42 Total Hepta-Dioxins				1.01	10.034			2.88		0.181	2.88
43 Total Tetra-Furans				0.92	10.034			0.0725		0.0606	0.0725
44 1st Func. Penta-Furans				0.96	10.034					0.0152	
45 Total Penta-Furans				0.98	10.034			0.224		0.0734	0.373
46 Total Hexa-Furans				1.09	10.034			0.185		0.0780	0.468
47 Total Hepta-Furans				1.05	10.034			0.225		0.108	0.482

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	36.62	6.187e2	6.022e2	1.03	NO	0.22470	0.22470
2 Total Hepta-Furans	37.41	5.783e2	6.529e2	0.89	NO	0.25881	0.00000

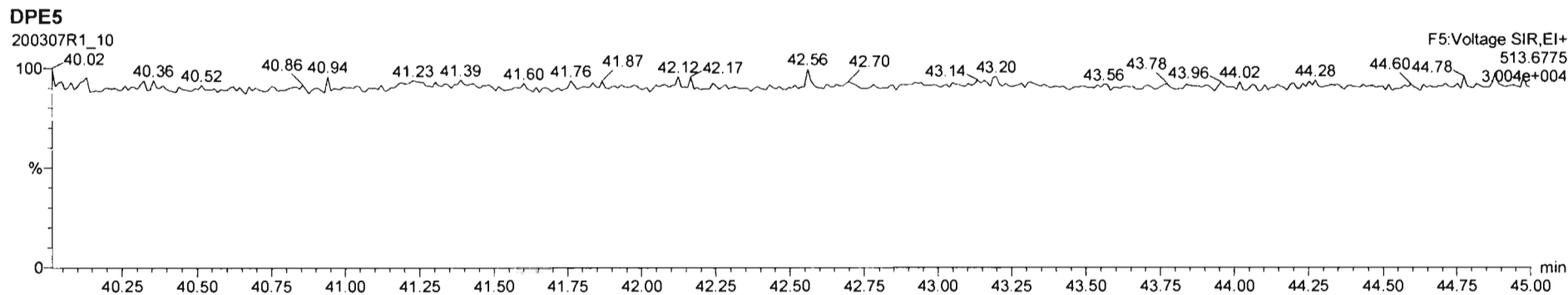
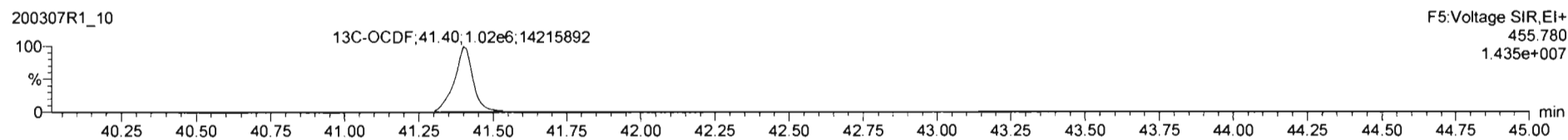
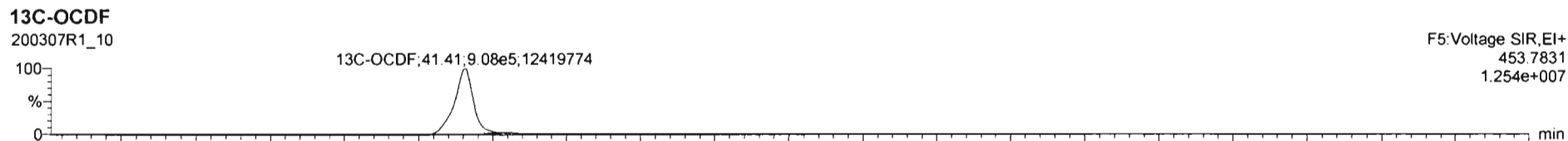
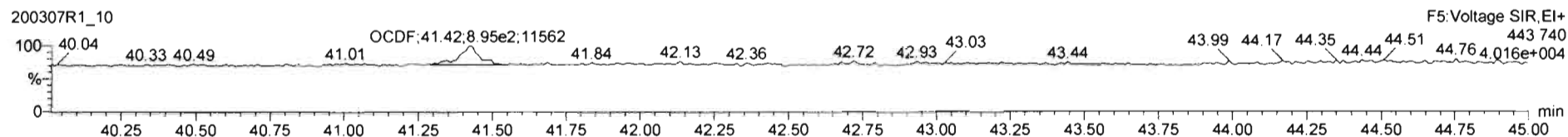
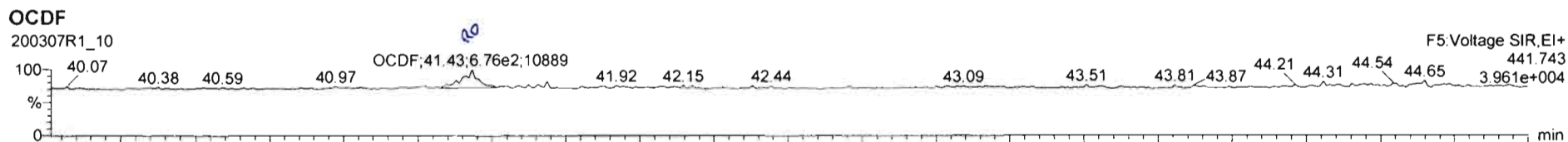


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Name: 200307R1_10, Date: 07-Mar-2020, Time: 16:51:01, ID: 2000144-04 PDI-059SC-A-12-13-191016 13.26, Description: PDI-059SC-A-12-13-191016



Dataset: Untitled

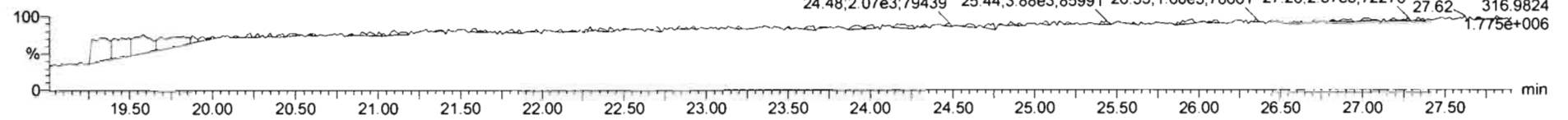
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Name: 200307R1_10, Date: 07-Mar-2020, Time: 16:51:01, ID: 2000144-04 PDI-059SC-A-12-13-191016 13.26, Description: PDI-059SC-A-12-13-191016

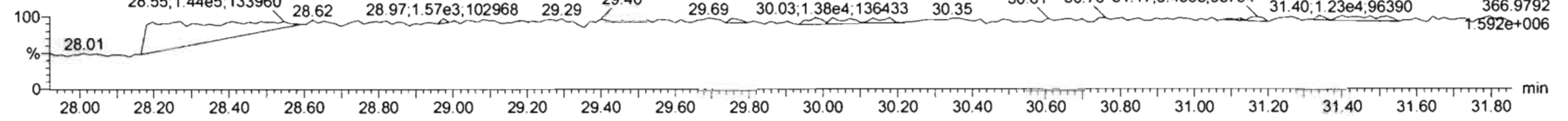
PFK1

200307R1_10



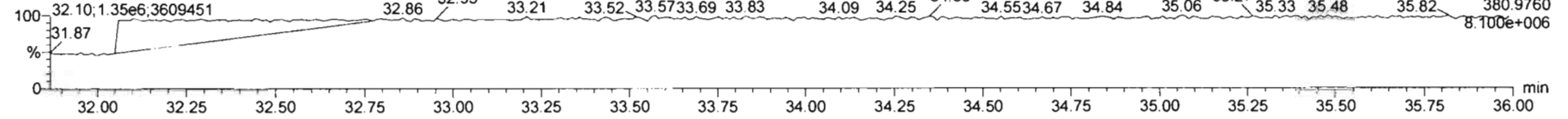
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200307R1_10



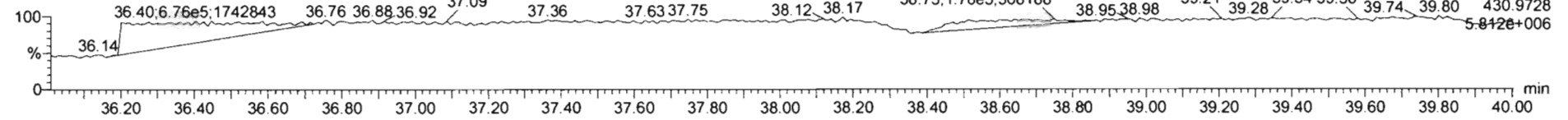
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200307R1_10



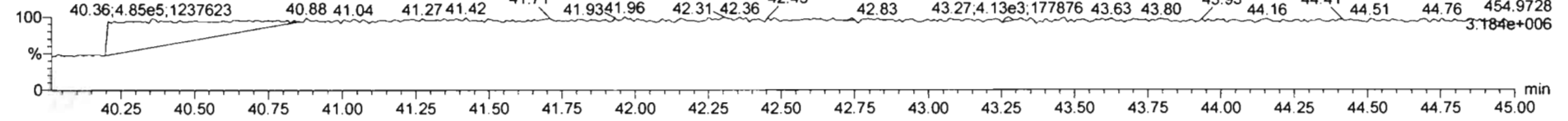
PFK4

200307R1_10



PFK5

200307R1_10



Dataset: U:\VG12.PRO\Results\200307R1\200307R1-11.qld

Last Altered: Monday, March 23, 2020 4:39:01 PM Pacific Daylight Time

Printed: Monday, March 23, 2020 4:42:38 PM Pacific Daylight Time

21.03/23/2020

07.03/24/2020

Method: Untitled 06 Mar 2020 12:03:08

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

Name: 200307R1_11, Date: 07-Mar-2020, Time: 17:38:33, ID: 2000144-05 PDI-064SC-A-02-03-190929 19.1, Description: PDI-064SC-A-02-03-190929, Task: ST200307R1_1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.38e3	0.28	YES	0.983	10.003	25.81	1.001	0.20167		0.0757	0.102
2	1,2,3,7,8-PeCDD	7.13e2	0.53	YES	0.921	10.003	30.99	1.000	0.13682		0.163	0.121
3	1,2,3,4,7,8-HxCDD			NO	1.13	10.003					0.0908	
4	1,2,3,6,7,8-HxCDD	7.00e2	1.45	YES	0.984	10.003	34.49	1.001	0.13605		0.0900	0.126
5	1,2,3,7,8,9-HxCDD	1.43e3	1.71	YES	0.967	10.003	34.74	1.000	0.30002		0.104	0.251
6	1,2,3,4,6,7,8-HpCDD	9.46e3	1.14	NO	1.01	10.003	38.21	1.000	2.2807		0.163	2.28
7	OCDD	4.14e4	0.89	NO	1.05	10.003	41.24	1.000	13.000		0.183	13.0
8	2,3,7,8-TCDF	3.13e3	0.79	NO	0.915	10.003	24.84	1.001	0.35503		0.0942	0.355
9	1,2,3,7,8-PeCDF	1.18e3	1.87	YES	0.959	10.003	29.65	1.000	0.14680		0.0680	0.130
10	2,3,4,7,8-PeCDF	7.46e2	1.29	YES	1.00	10.003	30.67	1.000	0.092789		0.0665	0.0859
11	1,2,3,4,7,8-HxCDF	1.20e3	1.24	NO	1.04	10.003	33.54	1.001	0.19137		0.0622	0.191
12	1,2,3,6,7,8-HxCDF	1.06e3	0.97	YES	1.01	10.003	33.65	1.001	0.15709		0.0621	0.140
13	2,3,4,6,7,8-HxCDF			NO	1.09	10.003					0.0651	
14	1,2,3,7,8,9-HxCDF			NO	1.03	10.003					0.0852	
15	1,2,3,4,6,7,8-HpCDF	1.39e3	1.45	YES	1.05	10.003	36.79	1.000	0.28143		0.101	0.235
16	1,2,3,4,7,8,9-HpCDF			NO	1.21	10.003					0.109	
17	OCDF	1.01e3	0.91	NO	0.947	10.003	41.41	1.000	0.27219		0.111	0.272
18	13C-2,3,7,8-TCDD	1.39e6	0.79	NO	1.18	10.003	25.78	1.028	192.10	96.1	0.210	
19	13C-1,2,3,7,8-PeCDD	1.14e6	0.64	NO	0.864	10.003	30.97	1.235	215.30	108	0.266	
20	13C-1,2,3,4,7,8-HxCDD	8.82e5	1.27	NO	0.754	10.003	34.36	1.014	178.74	89.4	0.318	
21	13C-1,2,3,6,7,8-HxCDD	1.03e6	1.28	NO	0.925	10.003	34.47	1.017	170.09	85.1	0.259	
22	13C-1,2,3,7,8,9-HxCDD	9.72e5	1.25	NO	0.829	10.003	34.73	1.025	179.07	89.6	0.289	
23	13C-1,2,3,4,6,7,8-HpCDD	8.24e5	1.08	NO	0.598	10.003	38.19	1.127	210.54	105	0.336	
24	13C-OCDD	1.21e6	0.90	NO	0.571	10.003	41.23	1.217	324.19	81.1	0.302	
25	13C-2,3,7,8-TCDF	1.93e6	0.78	NO	1.09	10.003	24.81	0.989	190.81	95.4	0.266	
26	13C-1,2,3,7,8-PeCDF	1.67e6	1.58	NO	0.876	10.003	29.65	1.182	205.44	103	0.419	
27	13C-2,3,4,7,8-PeCDF	1.60e6	1.58	NO	0.844	10.003	30.65	1.222	204.97	103	0.436	
28	13C-1,2,3,4,7,8-HxCDF	1.20e6	0.52	NO	1.00	10.003	33.51	0.989	184.00	92.0	0.345	
29	13C-1,2,3,6,7,8-HxCDF	1.33e6	0.53	NO	1.12	10.003	33.63	0.992	181.85	91.0	0.309	
30	13C-2,3,4,6,7,8-HxCDF	1.24e6	0.52	NO	1.04	10.003	34.20	1.009	182.35	91.2	0.334	

Dataset: U:\VG12.PRO\Results\200307R1\200307R1-11.qld

Last Altered: Monday, March 23, 2020 4:39:01 PM Pacific Daylight Time

Printed: Monday, March 23, 2020 4:42:38 PM Pacific Daylight Time

Name: 200307R1_11, Date: 07-Mar-2020, Time: 17:38:33, ID: 2000144-05 PDI-064SC-A-02-03-190929 19.1, Description: PDI-064SC-A-02-03-190929, Task: ST200307R1_1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
31	13C-1,2,3,7,8,9-HxCDF	1.10e6	0.51	NO	0.873	10.003	35.07	1.035	191.77	95.9	0.396	
32	13C-1,2,3,4,6,7,8-HpCDF	9.43e5	0.45	NO	0.771	10.003	36.79	1.086	186.92	93.5	0.385	
33	13C-1,2,3,4,7,8,9-HpCDF	7.00e5	0.43	NO	0.519	10.003	38.82	1.146	206.00	103	0.571	
34	13C-OCDF	1.56e6	0.85	NO	0.696	10.003	41.41	1.222	342.63	85.7	0.336	
35	37Cl-2,3,7,8-TCDD	5.48e5			1.17	10.003	25.80	1.029	76.168	95.2	0.0520	
36	13C-1,2,3,4-TCDD	1.22e6	0.79	NO	1.00	10.003	25.08	1.000	199.94	100	0.249	
37	13C-1,2,3,4-TCDF	1.85e6	0.80	NO	1.00	10.003	23.22	1.000	199.94	100	0.290	
38	13C-1,2,3,4,6,9-HxCDF	1.31e6	0.52	NO	1.00	10.003	33.89	1.000	199.94	100	0.345	
39	Total Tetra-Dioxins				0.983	10.003			1.0147		0.0757	1.60
40	Total Penta-Dioxins				0.921	10.003			0.22408		0.163	1.31
41	Total Hexa-Dioxins				0.984	10.003			1.5157		0.100	2.97
42	Total Hepta-Dioxins				1.01	10.003			5.1792		0.163	5.18
43	Total Tetra-Furans				0.915	10.003			4.4268		0.0942	4.94
44	1st Func. Penta-Furans				0.959	10.003			0.00000		0.0144	0.135
45	Total Penta-Furans				0.959	10.003			0.29406		0.0688	1.03
46	Total Hexa-Furans				1.09	10.003			0.27192		0.0649	0.617
47	Total Hepta-Furans				1.05	10.003			0.00000		0.0561	0.235

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200307R1\200307R1-11.qld

Last Altered: Monday, March 23, 2020 4:39:01 PM Pacific Daylight Time

Printed: Monday, March 23, 2020 4:42:38 PM Pacific Daylight Time

Method: Untitled 06 Mar 2020 12:03:08

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

Name: 200307R1_11, Date: 07-Mar-2020, Time: 17:38:33, ID: 2000144-05 PDI-064SC-A-02-03-190929 19.1, Description: PDI-064SC-A-02-03-190929, Task: ST200307R1_1

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	21.53	1.280e4	1.640e4	1.209e3	1.538e3	0.79	NO	2.747e3	0.40097	0.40097	0.0757
2	Total Tetra-Dioxins	21.95	1.219e4	1.654e4	1.347e3	1.387e3	0.97	YES	0.000e0	0.00000	0.35834	0.0757
3	Total Tetra-Dioxins	23.43	1.225e4	1.703e4	1.084e3	1.417e3	0.76	NO	2.501e3	0.36506	0.36506	0.0757
4	Total Tetra-Dioxins	23.68	3.513e3	4.531e3	2.552e2	2.386e2	1.07	YES	0.000e0	0.00000	0.061636	0.0757
5	Total Tetra-Dioxins	23.95	3.842e3	4.466e3	2.541e2	2.516e2	1.01	YES	0.000e0	0.00000	0.064985	0.0757
6	Total Tetra-Dioxins	25.06	4.159e3	4.553e3	3.625e2	4.279e2	0.85	NO	7.904e2	0.11536	0.11536	0.0757
7	2,3,7,8-TCDD	25.81	4.266e3	1.415e4	3.047e2	1.078e3	0.28	YES	1.383e3	0.00000	0.10222	0.0757
8	Total Tetra-Dioxins	26.17	3.368e3	3.993e3	2.155e2	2.547e2	0.85	NO	4.702e2	0.068624	0.068624	0.0757
9	Total Tetra-Dioxins	26.83	3.957e3	3.503e3	1.906e2	2.529e2	0.75	NO	4.435e2	0.064722	0.064722	0.0757

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.68	1.183e4	1.246e4	7.992e2	1.012e3	0.79	YES	0.000e0	0.00000	0.31412	0.163
2	Total Penta-Dioxins	29.17	9.027e3	1.341e4	4.614e2	7.151e2	0.65	NO	1.177e3	0.22408	0.22408	0.163
3	Total Penta-Dioxins	29.69	7.005e3	7.884e3	3.783e2	4.488e2	0.84	YES	0.000e0	0.00000	0.13933	0.163
4	Total Penta-Dioxins	29.98	4.278e3	9.176e3	4.709e2	9.431e2	0.50	YES	0.000e0	0.00000	0.23202	0.163
5	Total Penta-Dioxins	30.19	5.036e3	1.181e4	4.343e2	8.276e2	0.52	YES	0.000e0	0.00000	0.21402	0.163
6	Total Penta-Dioxins	30.55	3.650e3	4.325e3	1.259e2	2.473e2	0.51	YES	0.000e0	0.00000	0.062060	0.163
7	1,2,3,7,8-PeCDD	30.99	6.282e3	7.008e3	2.457e2	4.675e2	0.53	YES	7.131e2	0.00000	0.12105	0.163

Dataset: U:\VG12.PRO\Results\200307R1\200307R1-11.qld

Last Altered: Monday, March 23, 2020 4:39:01 PM Pacific Daylight Time
 Printed: Monday, March 23, 2020 4:42:38 PM Pacific Daylight Time

Name: 200307R1_11, Date: 07-Mar-2020, Time: 17:38:33, ID: 2000144-05 PDI-064SC-A-02-03-190929 19.1, Description: PDI-064SC-A-02-03-190929,
 Task: ST200307R1_1

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.91	6.845e4	5.520e4	4.018e3	3.157e3	1.27	NO	7.175e3	1.5157	1.5157	0.100
2	Total Hexa-Dioxins	33.47	1.894e4	1.428e4	1.075e3	7.324e2	1.47	YES	0.000e0	0.00000	0.34658	0.100
3	Total Hexa-Dioxins	33.70	3.011e4	2.668e4	1.907e3	1.838e3	1.04	YES	0.000e0	0.00000	0.72768	0.100
4	1,2,3,6,7,8-HxCDD	34.49	8.294e3	4.980e3	4.148e2	2.854e2	1.45	YES	7.003e2	0.00000	0.12604	0.0950
5	1,2,3,7,8,9-HxCDD	34.74	1.389e4	9.538e3	8.987e2	5.266e2	1.71	YES	1.425e3	0.00000	0.25078	0.104

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.18	8.145e4	7.376e4	6.113e3	5.911e3	1.03	NO	1.202e4	2.8985	2.8985	0.163
2	1,2,3,4,6,7,8-HpCDD	38.21	5.276e4	5.518e4	5.030e3	4.431e3	1.14	NO	9.460e3	2.2807	2.2807	0.163

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200307R1\200307R1-11.qld

Last Altered: Monday, March 23, 2020 4:39:01 PM Pacific Daylight Time

Printed: Monday, March 23, 2020 4:42:38 PM Pacific Daylight Time

Name: 200307R1_11, Date: 07-Mar-2020, Time: 17:38:33, ID: 2000144-05 PDI-064SC-A-02-03-190929 19.1, Description: PDI-064SC-A-02-03-190929, Task: ST200307R1_1

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	19.51	1.075e4	1.566e4	8.816e2	1.253e3	0.70	NO	2.135e3	0.24202	0.24202	0.0942
2	Total Tetra-Furans	20.02	5.268e3	6.682e3	4.308e2	6.013e2	0.72	NO	1.032e3	0.11700	0.11700	0.0942
3	Total Tetra-Furans	20.60	5.874e4	6.979e4	5.041e3	6.167e3	0.82	NO	1.121e4	1.2705	1.2705	0.0942
4	Total Tetra-Furans	21.11	1.687e4	1.995e4	2.166e3	2.690e3	0.81	NO	4.856e3	0.55047	0.55047	0.0942
5	Total Tetra-Furans	21.56	1.059e4	1.322e4	1.504e3	1.644e3	0.92	YES	0.000e0	0.00000	0.32982	0.0942
6	Total Tetra-Furans	21.98	7.400e3	9.036e3	5.382e2	7.556e2	0.71	NO	1.294e3	0.14666	0.14666	0.0942
7	Total Tetra-Furans	22.11	4.607e3	5.338e3	3.033e2	3.904e2	0.78	NO	6.937e2	0.078632	0.078632	0.0942
8	Total Tetra-Furans	22.32	5.483e3	7.306e3	5.013e2	6.999e2	0.72	NO	1.201e3	0.13617	0.13617	0.0942
9	Total Tetra-Furans	22.77	7.055e3	7.359e3	4.970e2	5.991e2	0.83	NO	1.096e3	0.12424	0.12424	0.0942
10	Total Tetra-Furans	22.94	6.793e3	8.084e3	6.609e2	8.511e2	0.78	NO	1.512e3	0.17138	0.17138	0.0942
11	Total Tetra-Furans	23.13	8.322e3	1.017e4	7.027e2	8.272e2	0.85	NO	1.530e3	0.17343	0.17343	0.0942
12	Total Tetra-Furans	23.27	9.055e3	1.208e4	1.130e3	1.317e3	0.86	NO	2.447e3	0.27739	0.27739	0.0942
13	Total Tetra-Furans	23.82	1.333e4	1.809e4	1.143e3	1.480e3	0.77	NO	2.623e3	0.29735	0.29735	0.0942
14	Total Tetra-Furans	24.10	5.247e3	7.214e3	4.899e2	5.468e2	0.90	YES	0.000e0	0.00000	0.10971	0.0942
15	Total Tetra-Furans	24.60	4.836e3	6.135e3	3.871e2	5.222e2	0.74	NO	9.093e2	0.10307	0.10307	0.0942
16	Total Tetra-Furans	24.73	4.731e3	4.749e3	2.745e2	3.553e2	0.77	NO	6.298e2	0.071385	0.071385	0.0942
17	2,3,7,8-TCDF	24.84	1.728e4	2.196e4	1.383e3	1.749e3	0.79	NO	3.132e3	0.35503	0.35503	0.0942
18	Total Tetra-Furans	25.23	1.487e4	1.916e4	1.097e3	1.656e3	0.66	NO	2.753e3	0.31210	0.31210	0.0942
19	Total Tetra-Furans	26.99	6.731e3	6.811e3	4.452e2	3.710e2	1.20	YES	0.000e0	0.00000	0.074433	0.0942

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	26.95	8.129e3	7.173e3	6.447e2	6.103e2	1.06	YES	0.000e0	0.00000	0.13510	0.0300

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200307R1\200307R1-11.qld

Last Altered: Monday, March 23, 2020 4:39:01 PM Pacific Daylight Time

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Name: 200307R1_11, Date: 07-Mar-2020, Time: 17:38:33, ID: 2000144-05 PDI-064SC-A-02-03-190929 19.1, Description: PDI-064SC-A-02-03-190929, Task: ST200307R1_1

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.45	1.169e4	5.627e3	1.073e3	5.963e2	1.80	YES	0.000e0	0.00000	0.19368	0.0688
2	Total Penta-Furans	28.64	2.070e4	1.066e4	1.467e3	8.415e2	1.74	NO	2.309e3	0.29406	0.29406	0.0688
3	Total Penta-Furans	28.71	8.243e3	8.864e3	2.609e2	2.136e2	1.22	YES	0.000e0	0.00000	0.054675	0.0688
4	Total Penta-Furans	29.19	4.759e3	4.436e3	2.440e2	2.233e2	1.09	YES	0.000e0	0.00000	0.051124	0.0688
5	1,2,3,7,8-PeCDF	29.65	1.295e4	7.806e3	7.667e2	4.092e2	1.87	YES	1.176e3	0.00000	0.13026	0.0680
6	Total Penta-Furans	29.92	6.405e3	7.569e3	4.861e2	5.359e2	0.91	YES	0.000e0	0.00000	0.10186	0.0688
7	Total Penta-Furans	30.56	8.456e3	6.858e3	3.826e2	3.163e2	1.21	YES	0.000e0	0.00000	0.080172	0.0688
8	2,3,4,7,8-PeCDF	30.67	1.211e4	8.158e3	4.199e2	3.266e2	1.29	YES	7.465e2	0.00000	0.085861	0.0665
9	Total Penta-Furans	30.70	6.388e3	3.026e3	1.954e2	1.087e2	1.80	YES	0.000e0	0.00000	0.035308	0.0688

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.35	4.717e3	5.917e3	1.917e2	2.013e2	0.95	YES	0.000e0	0.00000	0.052117	0.0649
2	Total Hexa-Furans	32.51	1.087e4	9.825e3	5.598e2	5.362e2	1.04	YES	0.000e0	0.00000	0.15217	0.0649
3	Total Hexa-Furans	33.41	5.950e3	5.950e3	2.763e2	2.589e2	1.07	NO	5.352e2	0.080548	0.080548	0.0649
4	1,2,3,4,7,8-HxCDF	33.54	1.047e4	1.037e4	6.637e2	5.332e2	1.24	NO	1.197e3	0.19137	0.19137	0.0622
5	1,2,3,6,7,8-HxCDF	33.65	6.796e3	7.363e3	5.240e2	5.405e2	0.97	YES	1.065e3	0.00000	0.14050	0.0621

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.79	8.643e3	9.429e3	8.225e2	5.688e2	1.45	YES	1.391e3	0.00000	0.23471	0.101

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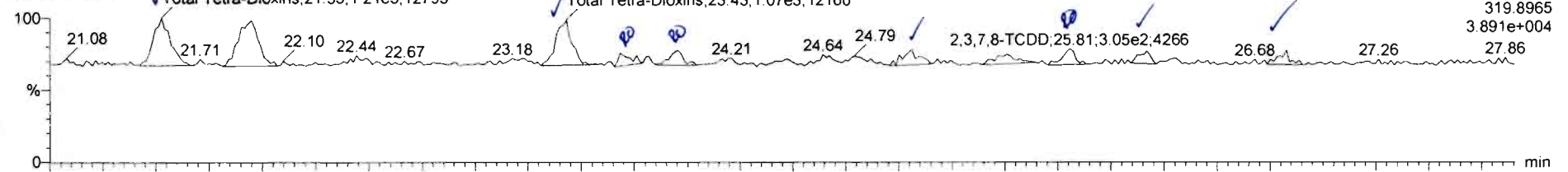
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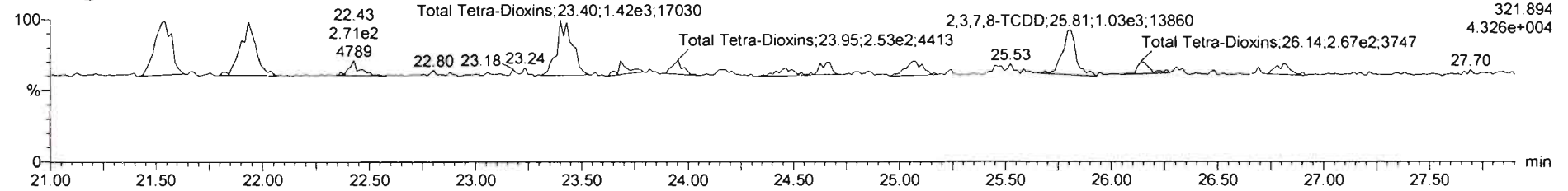
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2,3,7,8-TCDD

200307R1_11

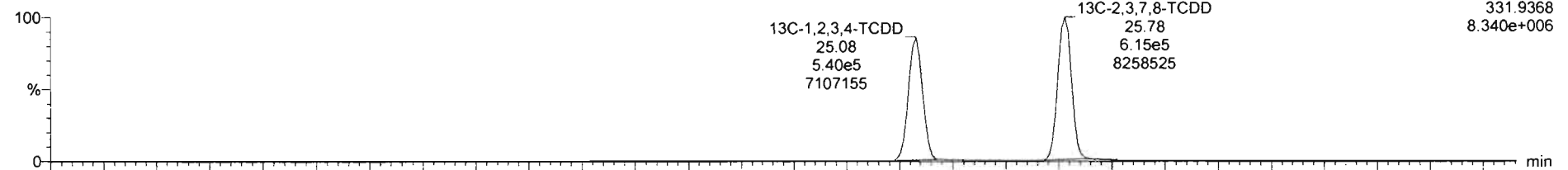


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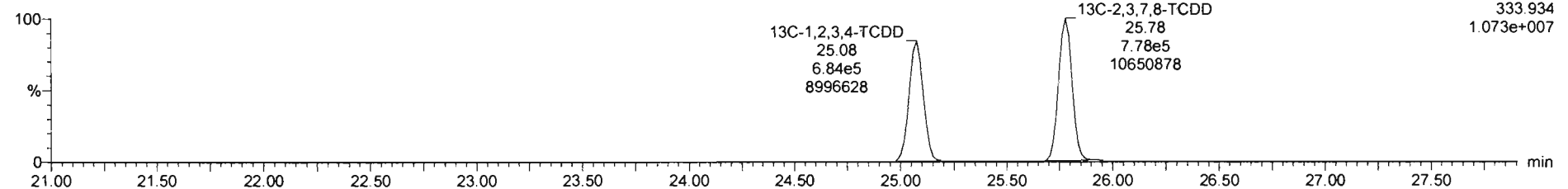


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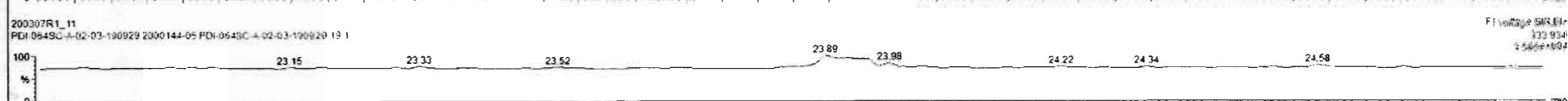
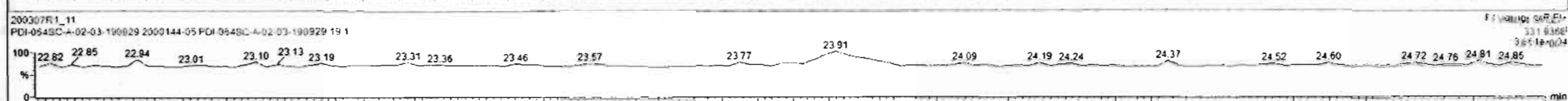
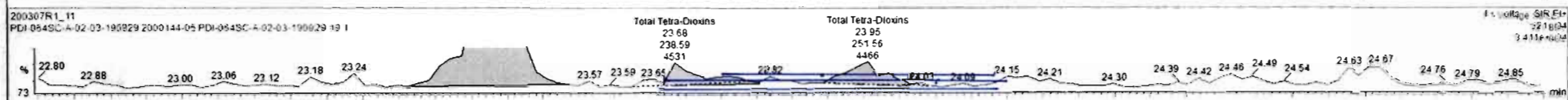
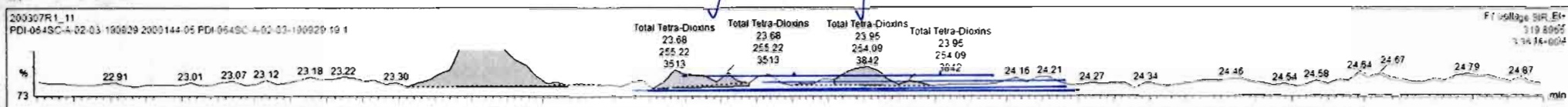


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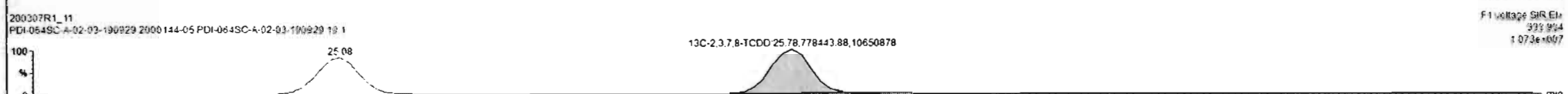
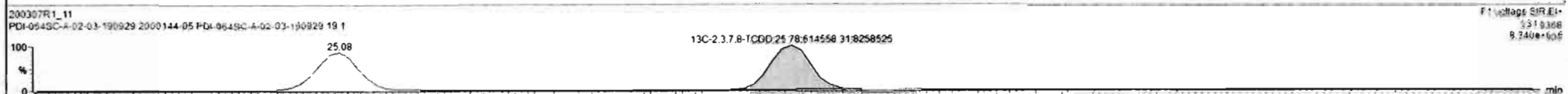
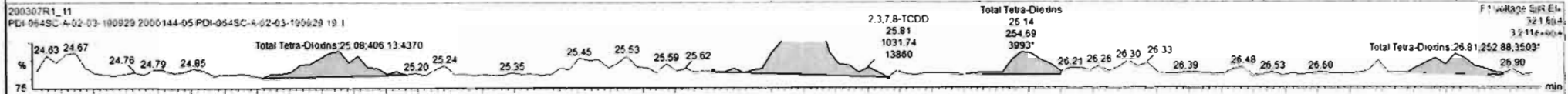
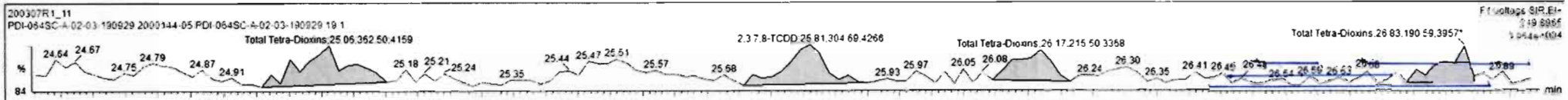
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	9.43e5	0.45	NO	0.77	10.003	36.79	1.088	187	93.5	0.365
33	13C-1,2,3,4,7,8,9-HpCDF	7.00e5	0.43	NO	0.52	10.003	38.82	1.146	206	103	0.571
34	13C-OCDF	1.56e6	0.65	NO	0.70	10.003	41.41	1.222	343	85.7	0.336
35	37Cl-2,3,7,8-TCDD	5.48e5			1.17	10.003	25.60	1.029	76.2	95.2	0.6520
36	13C-1,2,3,4-TCDD	1.22e6	0.79	NO	1.00	10.003	25.08	1.000	200	100	0.249
37	13C-1,2,3,4-TCDF	1.85e6	0.60	NO	1.00	10.003	23.22	1.000	200	100	0.250
38	13C-1,2,3,4,6,9-HxCDF	1.31e6	0.52	NO	1.00	10.003	33.85	1.000	208	100	0.345
39	Total Tetra-Dioxins				0.88	10.003			0.836		0.0757
											1.60

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	21.53	1.209e3	1.538e3	0.79	NO	0.40097	0.40097
2 Total Tetra-Dioxins	21.95	1.347e3	1.387e3	0.97	YES	0.35834	0.00000
3 Total Tetra-Dioxins	23.43	1.084e3	1.417e3	0.76	NO	0.36506	0.36506
4 Total Tetra-Dioxins	23.68	2.552e2	2.386e2	1.07	YES	0.061636	0.00000
5 Total Tetra-Dioxins	23.95	2.541e2	2.516e2	1.01	YES	0.064985	0.00000
6 Total Tetra-Dioxins	25.06	3.625e2	4.061e2	0.89	YES	0.10491	0.00000
7 2,3,7,8-TCDD	25.81	3.047e2	1.032e3	0.30	YES	0.10222	0.00000
8 Total Tetra-Dioxins	26.17	2.155e2	2.674e2	0.81	NO	0.070472	0.070472
9 Total Tetra-Dioxins	26.83	2.309e2	2.632e2	0.91	YES	0.067982	0.00000



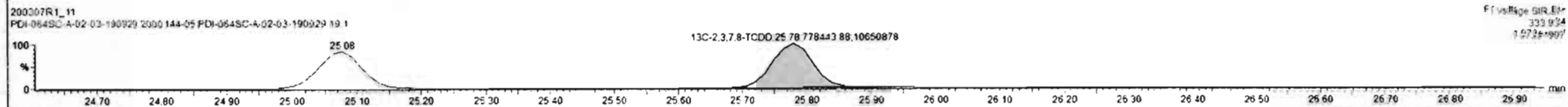
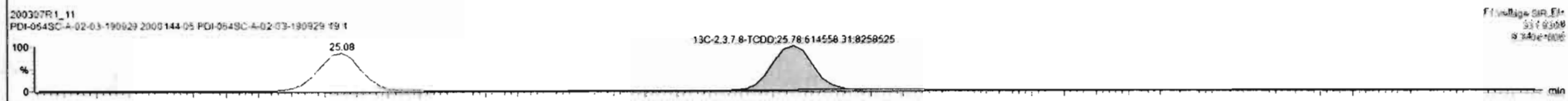
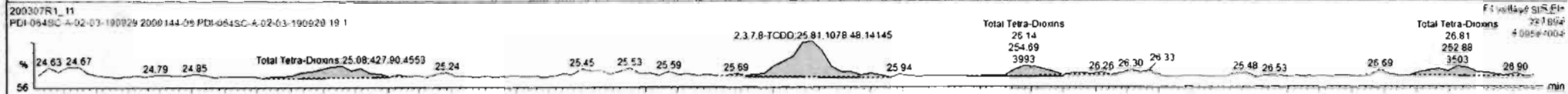
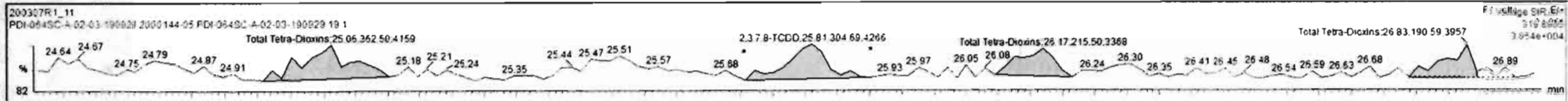
Name	Resp	RA	n/y	RRF	w/wvol	RT	RRT	Conc.	%Rec	DL	EMPC
32 13C-1,2,3,4,6,7,8-HpCDF	9.43e5	0.45	NO	0.77	10.003	36.79	1.086	187	93.5	0.385	
33 13C-1,2,3,4,7,8,9-HpCDF	7.09e5	0.43	NO	0.52	10.003	38.82	1.146	206	103	0.571	
34 13C-OCDF	1.56e6	0.85	NO	0.70	10.003	41.41	1.222	343	85.7	0.336	
35 37Cl-2,3,7,8-TCDD	5.46e5			1.17	10.003	25.60	1.029	75.2	95.2	0.0520	
36 13C-1,2,3,4-TCDD	1.22e6	0.79	NO	1.09	10.003	25.68	1.000	260	100	0.249	
37 13C-1,2,3,4-TCDF	1.85e6	0.60	NO	1.09	10.003	23.22	1.000	260	100	0.290	
38 13C-1,2,3,4,6,9-HxCDF	1.31e6	0.52	NO	1.00	10.003	33.69	1.000	200	100	0.345	
39 Total Tetra-Dioxins				0.99	10.003			0.836		0.0757	1.60

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	21.53	1.209e3	1.538e3	0.79	NO	0.40097	0.45097
2 Total Tetra-Dioxins	21.95	1.347e3	1.387e3	0.97	YES	0.35834	0.00000
3 Total Tetra-Dioxins	23.43	1.084e3	1.417e3	0.76	NO	0.36506	0.36506
4 Total Tetra-Dioxins	23.68	2.552e2	2.386e2	1.07	YES	0.061636	0.00000
5 Total Tetra-Dioxins	23.95	2.541e2	2.516e2	1.01	YES	0.064985	0.00000
6 Total Tetra-Dioxins	25.06	3.625e2	4.061e2	0.89	YES	0.10491	0.00000
7 2,3,7,8-TCDD	25.81	3.047e2	1.032e3	0.30	YES	0.10222	0.00000
8 Total Tetra-Dioxins	26.17	2.155e2	2.674e2	0.81	NO	0.070472	0.070472
9 Total Tetra-Dioxins	26.83	2.389e2	2.632e2	0.91	YES	0.067992	0.00000



Name	Resp	RA	n/y	RRF	wt/wt	RT	RRT	Conc.	%Rec	DL	EMPC
32 13C-1,2,3,4,6,7,8-HpCDF	9.43e5	0.45	NO	0.77	10.003	36.79	1.058	187	99.5	0.365	
33 13C-1,2,3,4,7,8,9-HpCDF	7.06e5	0.43	NO	0.52	10.003	38.82	1.146	206	103	0.571	
34 13C-OCDF	1.56e6	0.85	NO	0.70	10.003	41.41	1.222	343	85.7	0.336	
35 2,3,7,8-TCDD	5.46e5			1.17	10.003	25.60	1.029	75.2	95.2	0.0520	
36 13C-1,2,3,4-TCDD	1.22e6	0.79	NO	1.00	10.003	25.08	1.000	200	100	0.249	
37 13C-1,2,3,4-TCDF	1.85e6	0.60	NO	1.00	15.002	23.22	1.000	200	100	0.250	
38 13C-1,2,3,4,6,9-HxCDF	1.31e6	0.52	NO	1.00	10.003	33.89	1.000	200	100	0.345	
39 Total Tetra-Dioxins				0.88	10.003			0.699		0.0757	1.60

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	21.53	1.209e3	1.538e3	0.79	NO	0.40097	0.40097
2 Total Tetra-Dioxins	21.95	1.347e3	1.387e3	0.97	YES	0.35834	0.00000
3 Total Tetra-Dioxins	23.43	1.084e3	1.417e3	0.76	NO	0.36506	0.36506
4 Total Tetra-Dioxins	23.68	2.552e2	2.386e2	1.07	YES	0.061636	0.00000
5 Total Tetra-Dioxins	23.95	2.541e2	2.516e2	1.01	YES	0.064965	0.00000
6 Total Tetra-Dioxins	25.06	3.625e2	4.279e2	0.85	NO	0.11536	0.00000
7 2,3,7,8-TCDD	25.81	3.047e2	1.078e3	0.28	YES	0.10222	0.00000
8 Total Tetra-Dioxins	26.17	2.155e2	2.547e2	0.85	NO	0.068624	0.068624
9 Total Tetra-Dioxins	26.83	1.906e2	2.529e2	0.75	NO	0.064722	0.064722



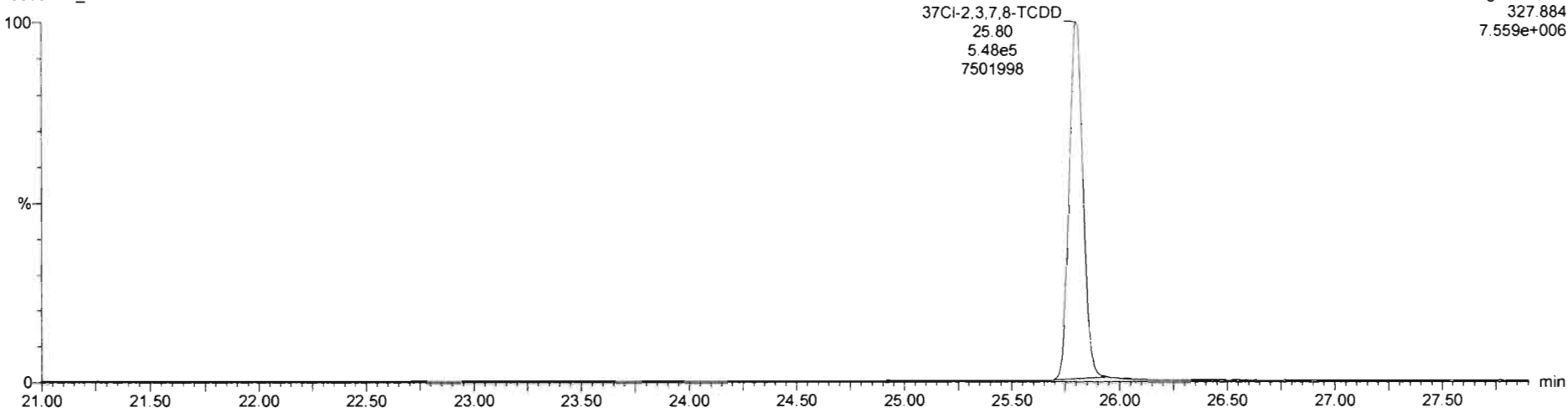
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Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

Name: 200307R1_11, Date: 07-Mar-2020, Time: 17:38:33, ID: 2000144-05 PDI-064SC-A-02-03-190929 19.1, Description: PDI-064SC-A-02-03-190929

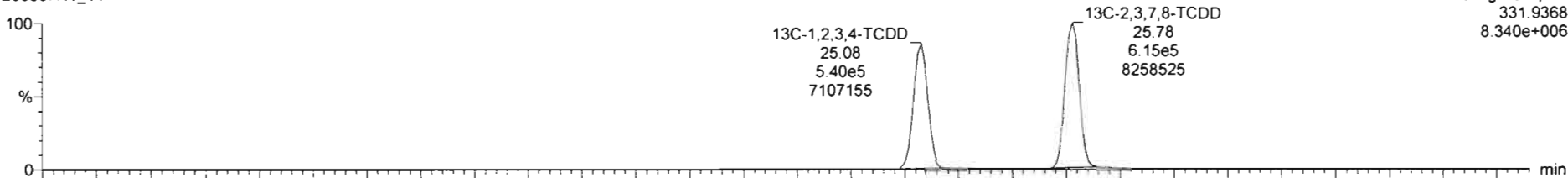
37Cl-2,3,7,8-TCDD

200307R1_11

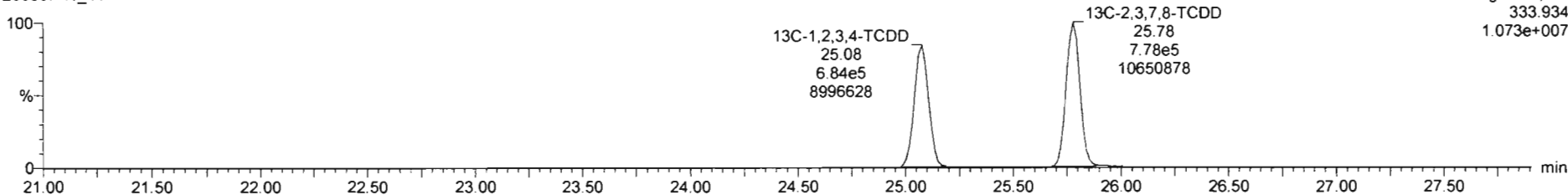


13C-1,2,3,4-TCDD

200307R1_11



200307R1_11



Dataset: Untitled

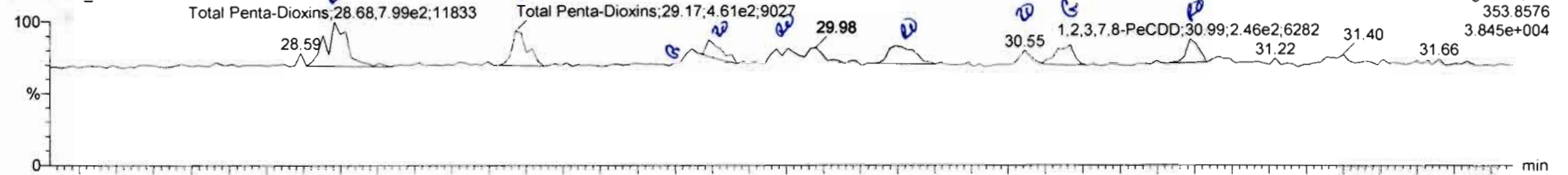
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Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

Name: 200307R1_11, Date: 07-Mar-2020, Time: 17:38:33, ID: 2000144-05 PDI-064SC-A-02-03-190929 19.1, Description: PDI-064SC-A-02-03-190929

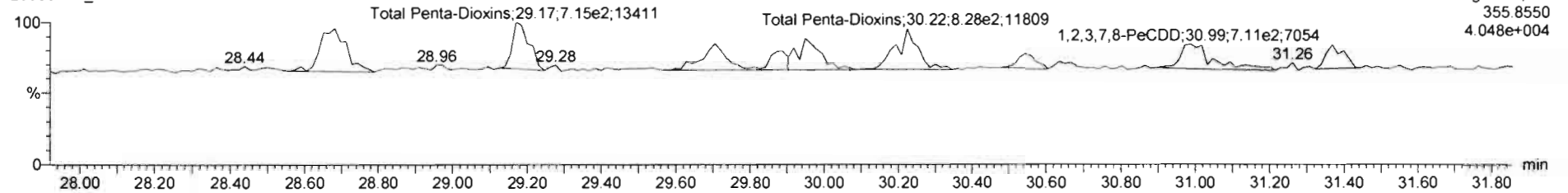
1,2,3,7,8-PeCDD

200307R1_11



F2:Voltage SIR,EI+
353.8576
3.845e+004

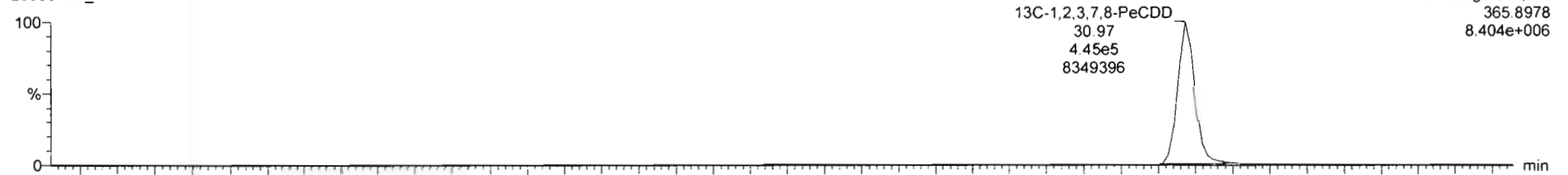
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355.8550
4.048e+004

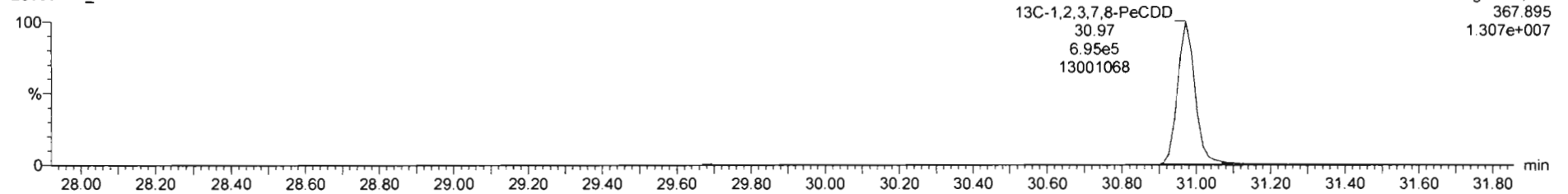
13C-1,2,3,7,8-PeCDD

200307R1_11



F2:Voltage SIR,EI+
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8.404e+006

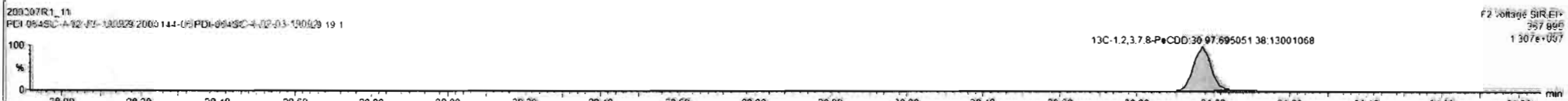
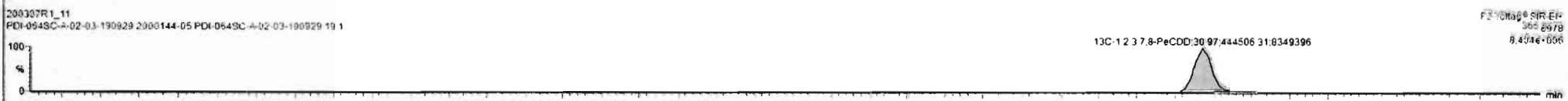
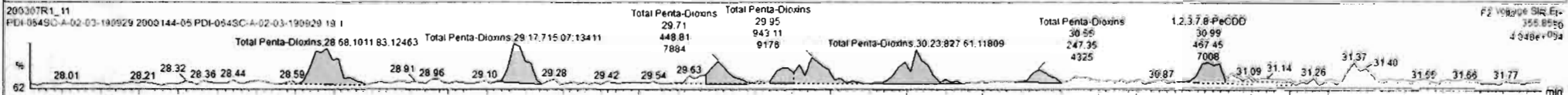
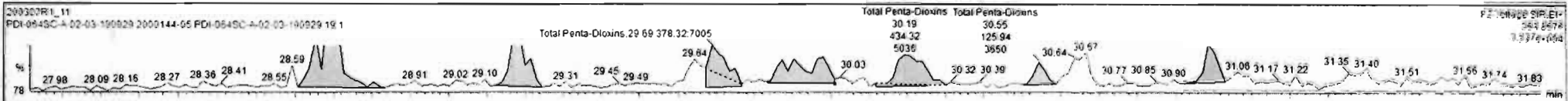
200307R1_11



F2:Voltage SIR,EI+
367.895
1.307e+007

Name	Resp	RA	nly	RRF	wt/wt	RT	RRT	Conc.	%Rec	DL	EMPC
32 13C-1,2,3,4,6,7,8-HpCDF	9.43e5	0.45	NO	0.77	10.003	36.79	1.088	187	93.5	0.365	
33 13C-1,2,3,4,7,8,9-HpCDF	7.00e5	0.43	NO	0.52	10.003	38.82	1.146	206	103	0.571	
34 13C-OCDF	1.56e5	0.65	NO	0.70	10.003	41.41	1.222	342	85.7	0.336	
35 37Cl-2,3,7,8-TCDD	5.48e5			1.17	10.003	25.60	1.029	76.2	95.2	0.0520	
36 13C-1,2,3,4-TCDD	1.22e6	0.79	NO	1.00	10.003	25.08	1.000	200	100	0.249	
37 13C-1,2,3,4-TCDF	1.85e6	0.80	NO	1.00	10.003	23.22	1.000	200	100	0.290	
38 13C-1,2,3,4,8,9-HxCDF	1.31e6	0.52	NO	1.00	10.003	33.89	1.000	200	100	0.345	
39 Total Tetra-Dioxins				0.98	10.003			1.01		0.0757	1.60

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Penta-Dioxins	28.88	7.992e2	1.012e3	0.79	YES	0.31412	0.00000
2 Total Penta-Dioxins	29.17	4.614e2	7.151e2	0.65	NO	0.22408	0.22408
3 Total Penta-Dioxins	29.69	3.783e2	4.488e2	0.84	YES	0.13933	0.00000
4 Total Penta-Dioxins	29.88	4.709e2	9.431e2	0.50	YES	0.23202	0.00000
5 Total Penta-Dioxins	30.19	4.343e2	5.276e2	0.52	YES	0.21402	0.00000
6 Total Penta-Dioxins	30.55	1.256e2	2.473e2	0.51	YES	0.062060	0.00000
7 1,2,3,7,8-PeCDD	30.99	2.457e2	4.675e2	0.53	YES	0.12105	0.00000



Dataset: Untitled

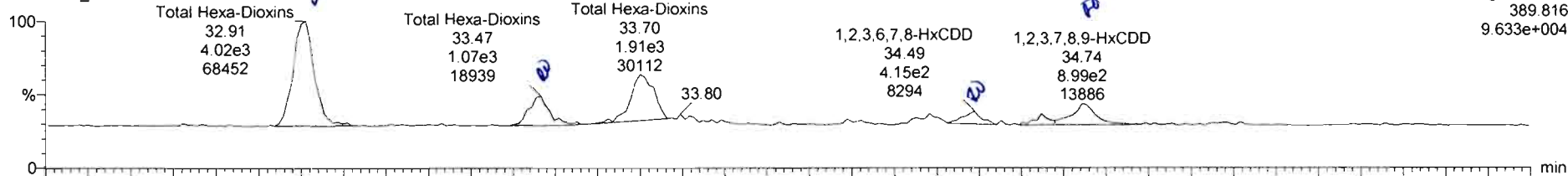
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Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

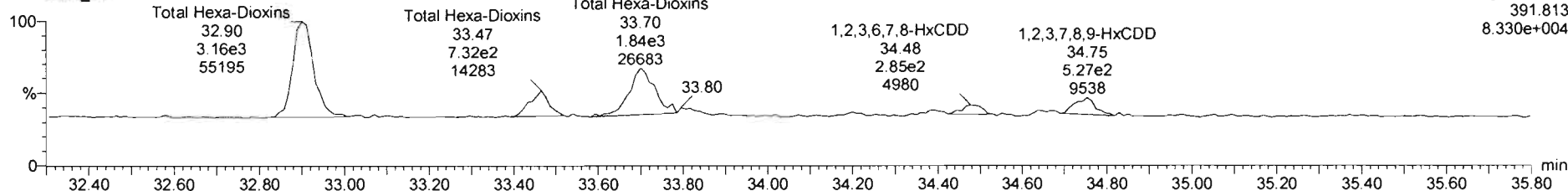
Name: 200307R1_11, Date: 07-Mar-2020, Time: 17:38:33, ID: 2000144-05 PDI-064SC-A-02-03-190929 19.1, Description: PDI-064SC-A-02-03-190929

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

200307R1_11

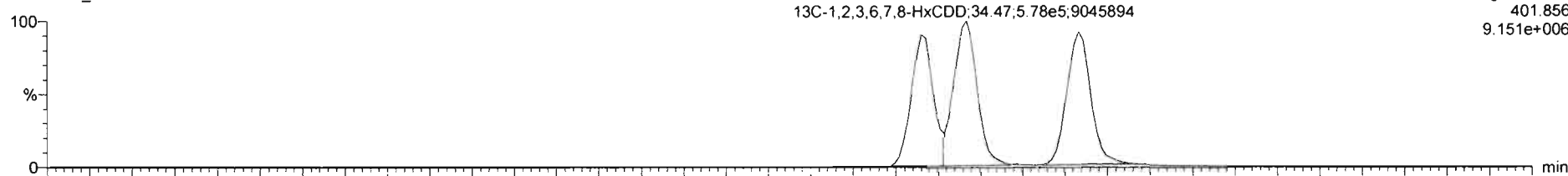


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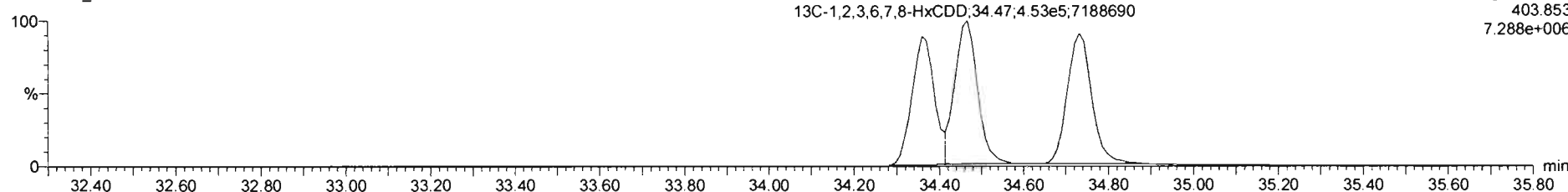


13C-1,2,3,4,7,8-HxCDD

200307R1_11



200307R1_11



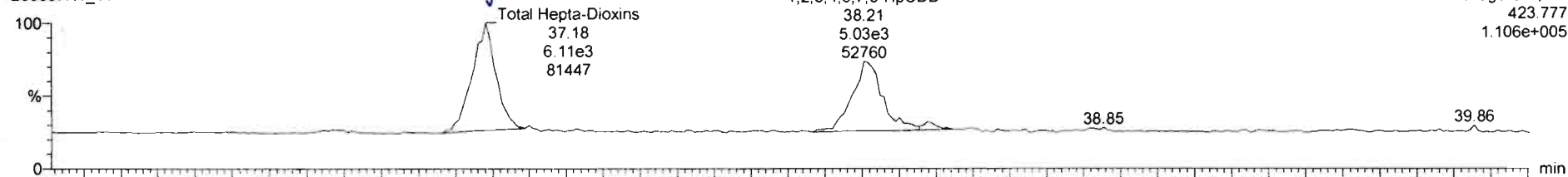
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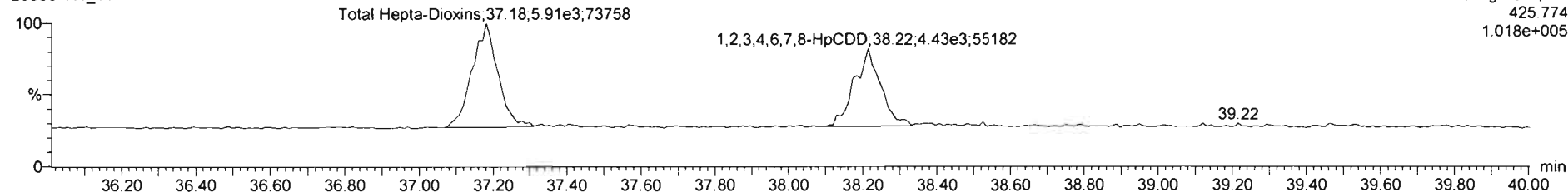
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1,2,3,4,6,7,8-HpCDD

200307R1_11

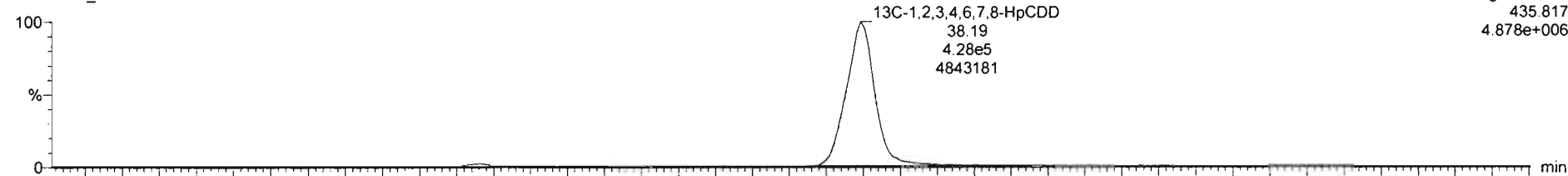


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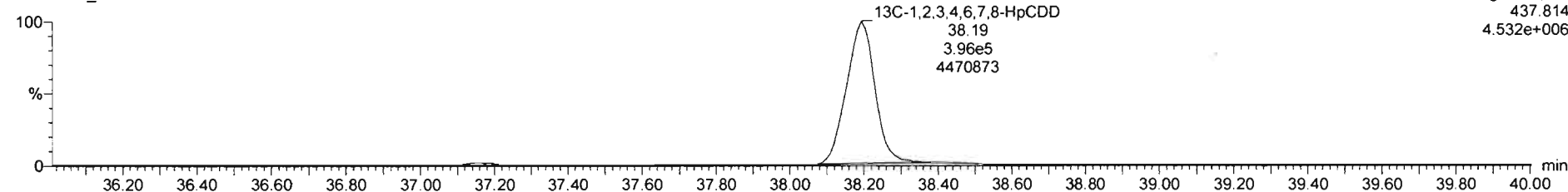


13C-1,2,3,4,6,7,8-HpCDD

200307R1_11



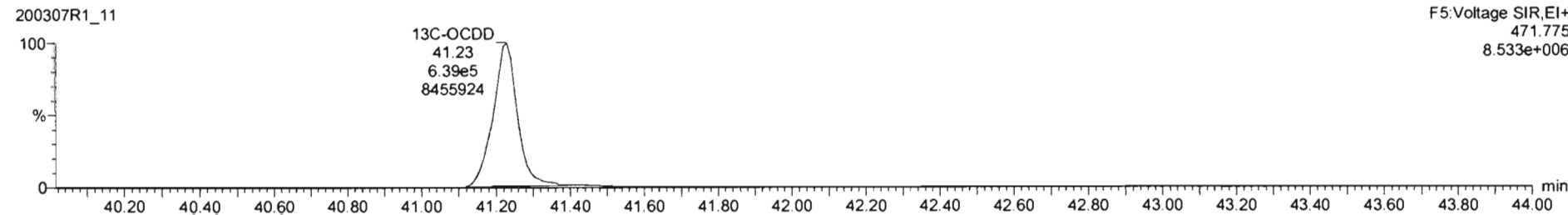
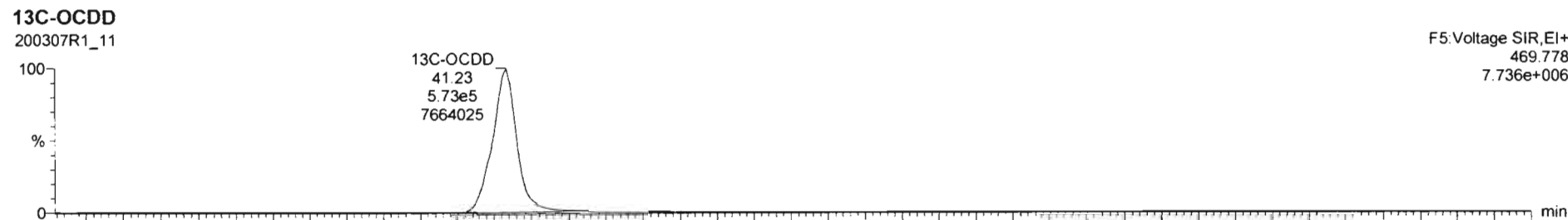
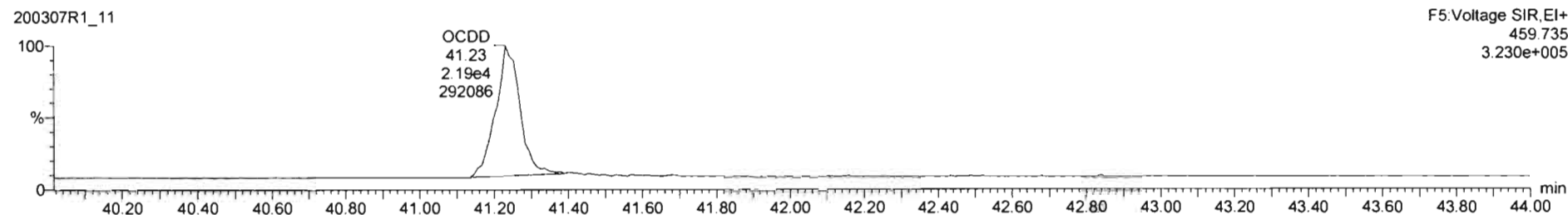
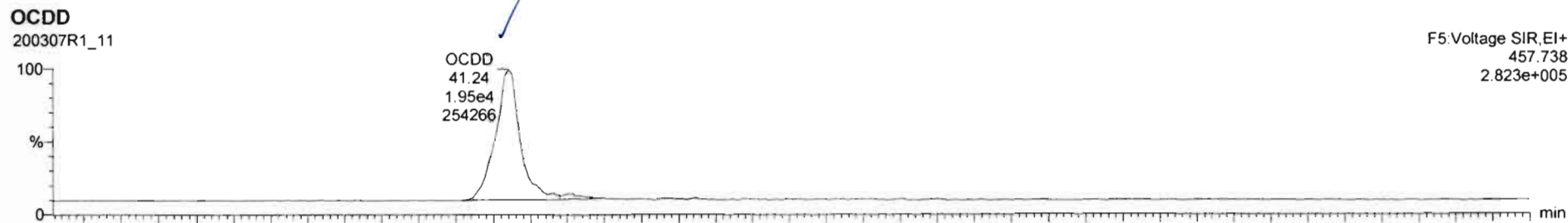
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Name: 200307R1_11, Date: 07-Mar-2020, Time: 17:38:33, ID: 2000144-05 PDI-064SC-A-02-03-190929 19.1, Description: PDI-064SC-A-02-03-190929

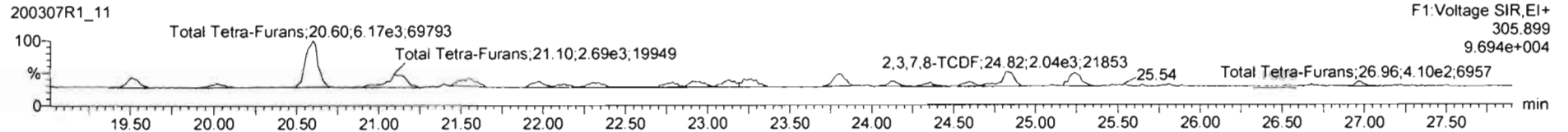
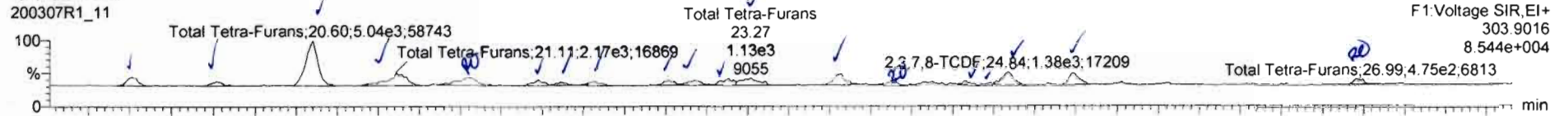


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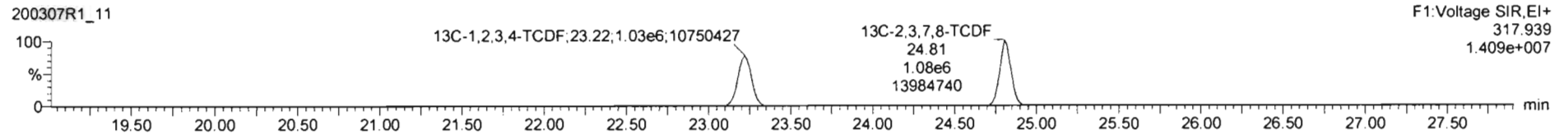
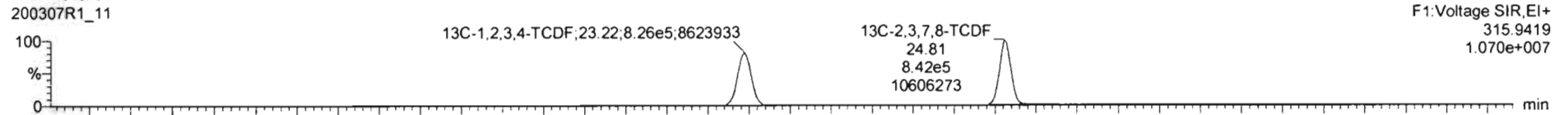
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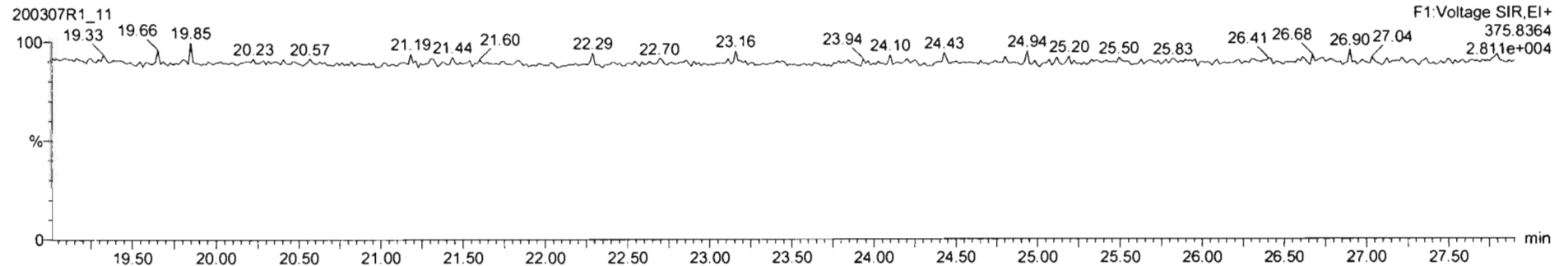
2,3,7,8-TCDF



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

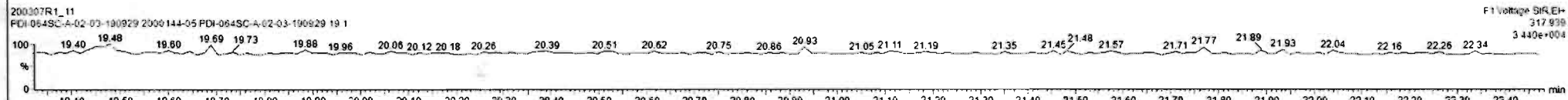
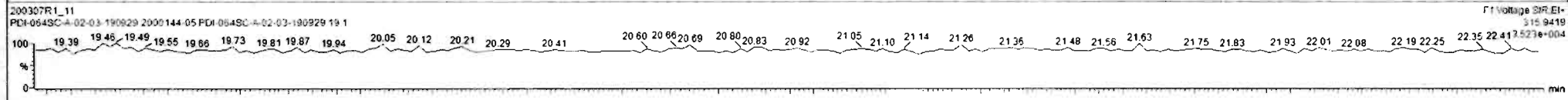
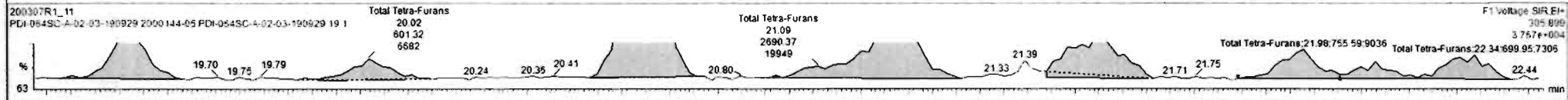
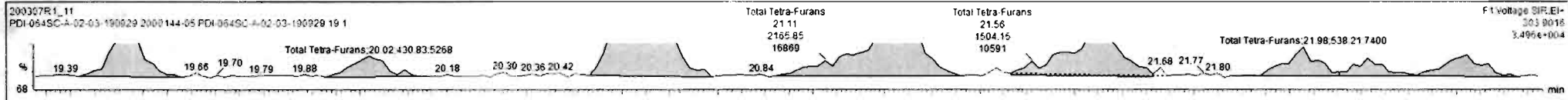


DPE1



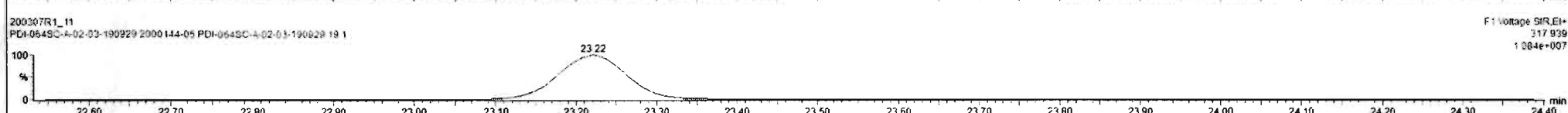
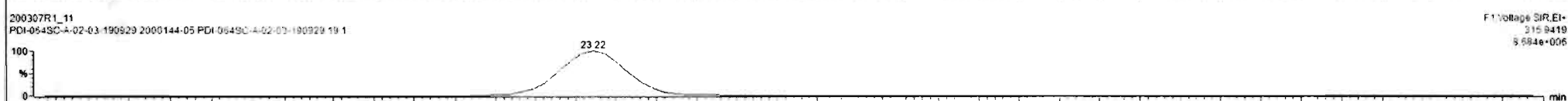
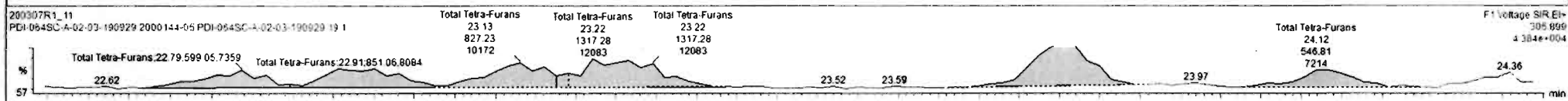
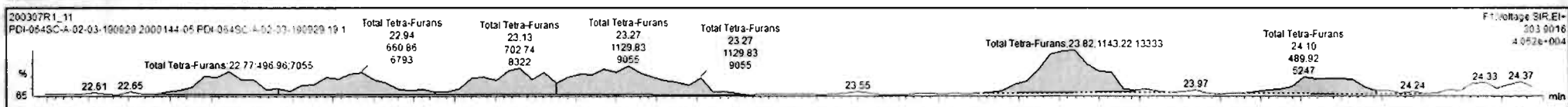
#	Name	Resp	RA	n/y	RBF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
41	Total Hexa-Dioxins				0.98	10.003			1.52	0.100	2.97	
42	Total Hepta-Dioxins				1.01	10.003			5.18	0.183	5.18	
43	Total Tetra-Furans				0.92	10.003			4.28	0.0542	4.91	
44	1st Func. Penta-Furans				0.96	10.003			0.000	0.0144	0.135	
45	Total Penta-Furans				0.96	10.003			0.698	0.0688	1.08	
46	Total Hexa-Furans				1.09	10.003			0.153	0.0649	0.521	
47	Total Hepta-Furans				1.05	10.003			0.000	0.0561	0.235	
48	PFK1											

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Tetra-Furans	19.51	8.81e2	1.253e3	0.70	NO	0.24202	0.24202
2	Total Tetra-Furans	20.02	4.308e2	6.013e2	0.72	NO	0.11700	0.11700
3	Total Tetra-Furans	20.60	5.041e3	6.167e3	0.82	NO	1.2705	1.2705
4	Total Tetra-Furans	21.11	2.168e3	2.890e3	0.81	NO	0.55047	0.55047
5	Total Tetra-Furans	21.56	1.504e3	1.844e3	0.92	YES	0.32982	0.00000
6	Total Tetra-Furans	21.98	5.382e2	7.556e2	0.71	NO	0.14868	0.14868
7	Total Tetra-Furans	22.11	3.032e2	3.984e2	0.78	NO	0.078632	0.078632
8	Total Tetra-Furans	22.32	5.013e2	6.999e2	0.72	NO	0.13617	0.13617
9	Total Tetra-Furans	22.77	4.870e2	5.991e2	0.83	NO	0.12424	0.12424
10	Total Tetra-Furans	22.94	6.609e2	8.511e2	0.78	NO	0.17138	0.17138
11	Total Tetra-Furans	23.13	7.027e2	9.034e2	0.78	NO	0.18207	0.18207
12	Total Tetra-Furans	23.27	1.130e3	1.207e3	0.94	YES	0.24217	0.00000



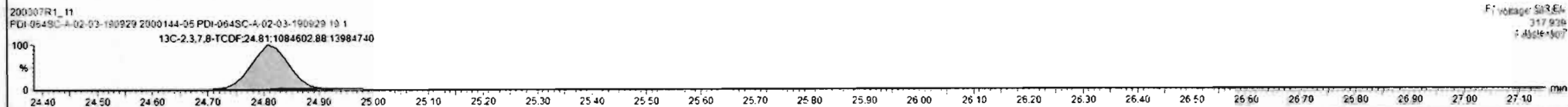
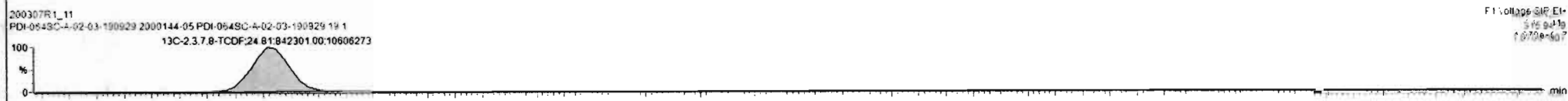
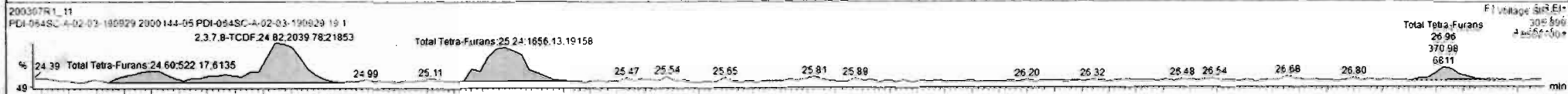
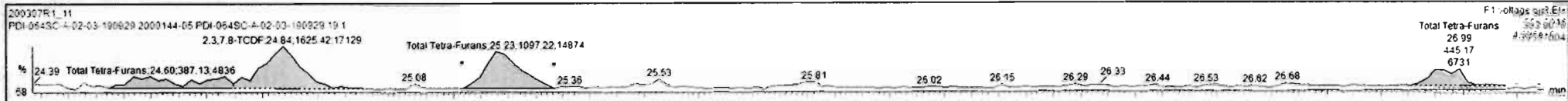
#	Name	Resp	RA	nly	RRF	wt/wt	RT	RRT	Conc.	%Rec	DL	EMPC
41	Total Hexa-Dioxine				0.98	10.003			1.52		0.100	2.97
42	Total Hepta-Dioxine				1.01	10.003			5.18		0.163	5.18
43	Total Tetra-Furans				0.92	10.003			4.11		0.0942	4.91
44	1st Func. Penta-Furana				0.96	10.003			0.000		0.0144	0.135
45	Total Penta-Furana				0.96	10.003			0.698		0.0688	1.08
46	Total Hexa-Furana				1.09	10.003			0.153		0.0649	0.521
47	Total Hepta-Furana				1.05	10.003			0.000		0.0561	0.235
48	PFK1											

#	Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1	Total Tetra-Furans	19.51	8.816e2	1.253e3	0.70	NO	0.24202	0.24202
2	Total Tetra-Furans	20.02	4.308e2	6.013e2	0.72	NO	0.11700	0.11700
3	Total Tetra-Furans	20.60	5.041e3	6.167e3	0.82	NO	1.2705	1.2705
4	Total Tetra-Furans	21.11	2.166e3	2.590e3	0.81	NO	0.65047	0.55047
5	Total Tetra-Furans	21.58	1.504e3	1.644e3	0.92	YES	0.32982	0.00000
6	Total Tetra-Furans	21.96	5.382e2	7.556e2	0.71	NO	0.14668	0.14668
7	Total Tetra-Furans	22.11	3.032e2	3.904e2	0.78	NO	0.078632	0.078632
8	Total Tetra-Furans	22.32	5.013e2	6.999e2	0.72	NO	0.13617	0.13617
9	Total Tetra-Furans	22.77	4.870e2	5.991e2	0.83	NO	0.12424	0.12424
10	Total Tetra-Furans	22.94	6.609e2	8.511e2	0.78	NO	0.17138	0.17138
11	Total Tetra-Furans	23.13	7.027e2	8.272e2	0.85	NO	0.17343	0.17343
12	Total Tetra-Furans	23.27	1.130e3	1.317e3	0.86	NO	0.27739	0.06000



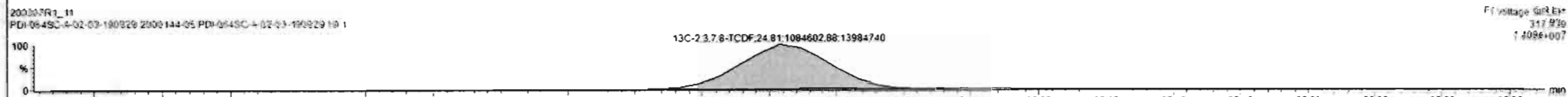
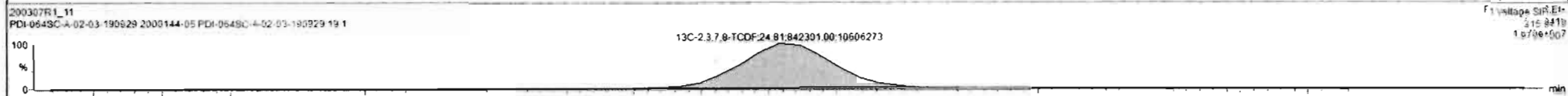
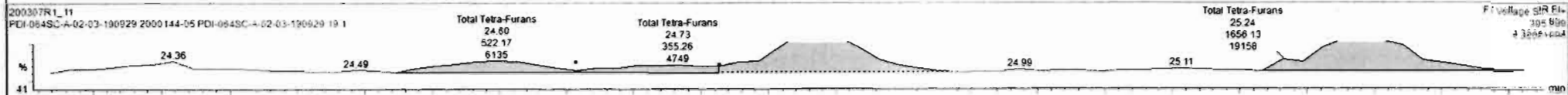
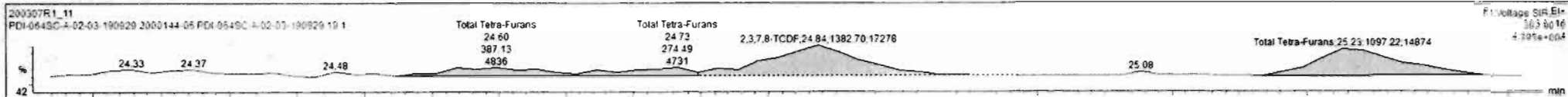
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.98	10.003			1.52		0.100	2.97
42 Total Hepta-Dioxins				1.01	10.003			5.18		0.163	5.18
43 Total Tetra-Furans				0.92	10.003			4.42		0.0942	4.93
44 1st Func. Penta-Furans				0.96	10.003			0.060		0.0144	0.135
45 Total Penta-Furans				0.96	10.003			0.698		0.0688	1.08
46 Total Hexa-Furans				1.09	10.003			0.153		0.0649	0.521
47 Total Hepta-Furans				1.05	10.003			0.000		0.0561	0.235
48 PPK1											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	19.51	8.816e2	1.253e3	0.70	NO	0.24202	0.24202
2 Total Tetra-Furans	20.02	4.308e2	6.013e2	0.72	NO	0.11700	0.11700
3 Total Tetra-Furans	20.60	5.041e3	6.167e3	0.82	NO	1.2705	1.2705
4 Total Tetra-Furans	21.11	2.166e3	2.690e3	0.81	NO	0.55647	0.55647
5 Total Tetra-Furans	21.56	1.504e3	1.644e3	0.92	YES	0.22962	0.02000
6 Total Tetra-Furans	21.96	5.362e2	7.956e2	0.71	NO	0.14668	0.14668
7 Total Tetra-Furans	22.11	3.033e2	3.904e2	0.78	NO	0.078632	0.078632
8 Total Tetra-Furans	22.32	5.013e2	6.999e2	0.72	NO	0.13617	0.13617
9 Total Tetra-Furans	22.77	4.970e2	5.991e2	0.83	NO	0.12424	0.12424
10 Total Tetra-Furans	22.94	6.609e2	8.511e2	0.78	NO	0.17138	0.17138
11 Total Tetra-Furans	23.13	7.027e2	8.272e2	0.85	NO	0.17343	0.17343
12 Total Tetra-Furans	23.27	1.130e3	1.317e3	0.86	NO	0.27739	0.27739



#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
41	Total Hexa-Dioxins				0.98	10.003			1.52		0.100	2.97
42	Total Hepta-Dioxins				1.01	10.003			5.18		0.163	5.18
43	Total Tetra-Furans				0.92	10.003			4.43		0.0942	4.94
44	1st Func. Penta-Furans				0.96	10.003			0.000		0.0144	0.135
45	Total Penta-Furans				0.96	10.003			0.698		0.0688	1.08
46	Total Hexa-Furans				1.09	10.003			0.153		0.0649	0.521
47	Total Hepta-Furans				1.05	10.003			0.000		0.0561	0.238
48	PFK1											

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Tetra-Furans	19.51	8.816e2	1.253e3	0.70	NO	0.24202	0.24202
2	Total Tetra-Furans	20.02	4.308e2	6.013e2	0.72	NO	0.11700	0.11700
3	Total Tetra-Furans	20.60	5.041e3	6.167e3	0.82	NO	1.2705	1.2705
4	Total Tetra-Furans	21.11	2.166e3	2.690e3	0.81	NO	0.55047	0.55047
5	Total Tetra-Furans	21.56	1.594e3	1.644e3	0.92	YES	0.32982	0.00000
6	Total Tetra-Furans	21.96	5.382e2	7.556e2	0.71	NO	0.14666	0.14666
7	Total Tetra-Furans	22.11	3.032e2	3.904e2	0.78	NO	0.078632	0.078632
8	Total Tetra-Furans	22.32	5.013e2	6.999e2	0.72	NO	0.13617	0.13617
9	Total Tetra-Furans	22.77	4.970e2	5.991e2	0.83	NO	0.12424	0.12424
10	Total Tetra-Furans	22.94	6.609e2	8.511e2	0.78	NO	0.17138	0.17138
11	Total Tetra-Furans	23.13	7.027e2	8.272e2	0.85	NO	0.17343	0.17343
12	Total Tetra-Furans	23.27	1.130e3	1.317e3	0.86	NO	0.27739	0.27739



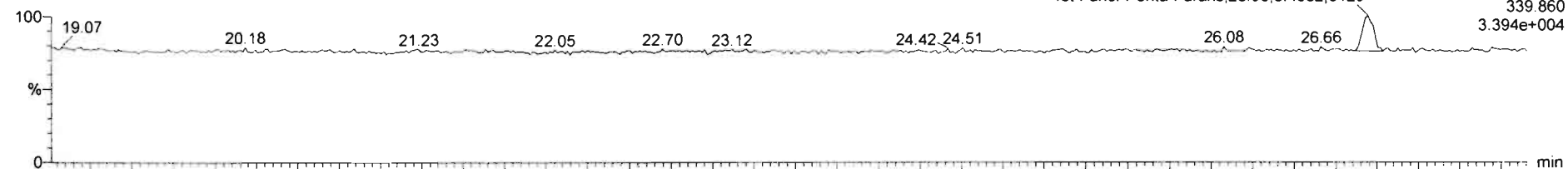
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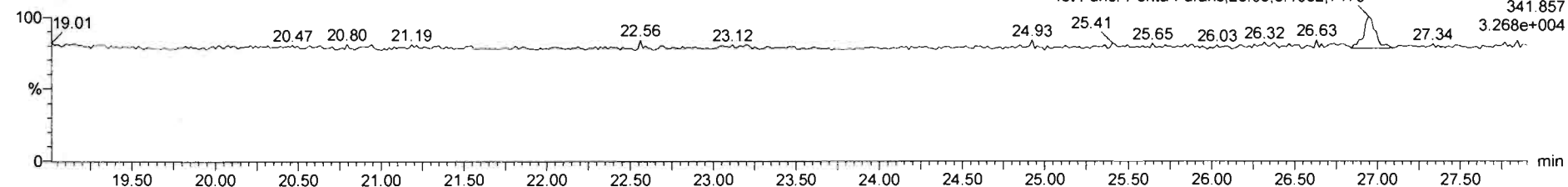
Name: 200307R1_11, Date: 07-Mar-2020, Time: 17:38:33, ID: 2000144-05 PDI-064SC-A-02-03-190929 19.1, Description: PDI-064SC-A-02-03-190929

1st Func. Penta-Furans

200307R1_11

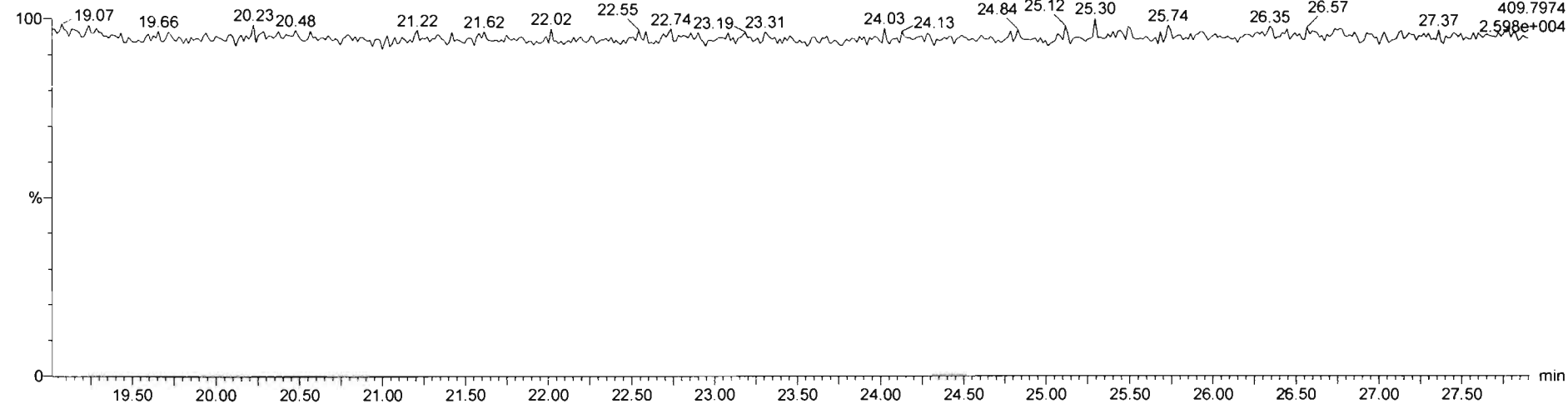


200307R1_11



DPE6

200307R1_11



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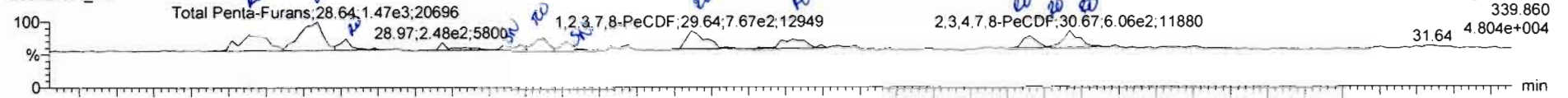
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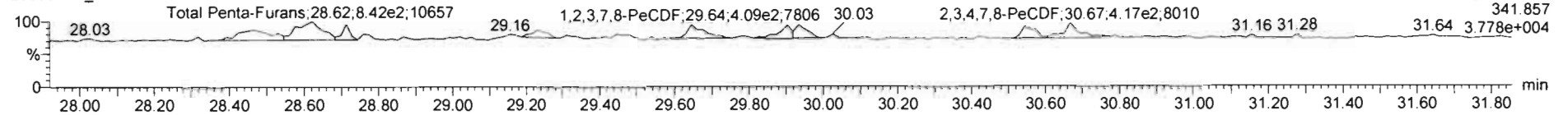
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1,2,3,7,8-PeCDF

200307R1_11

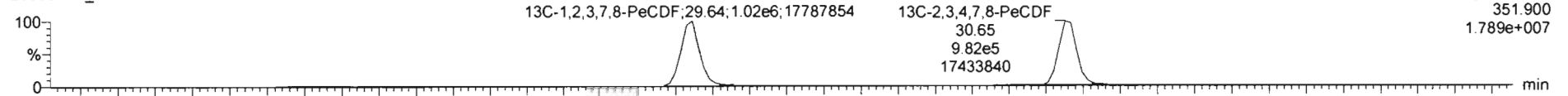


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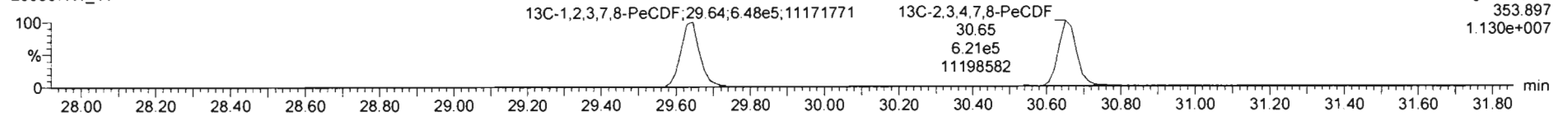


13C-1,2,3,7,8-PeCDF

200307R1_11

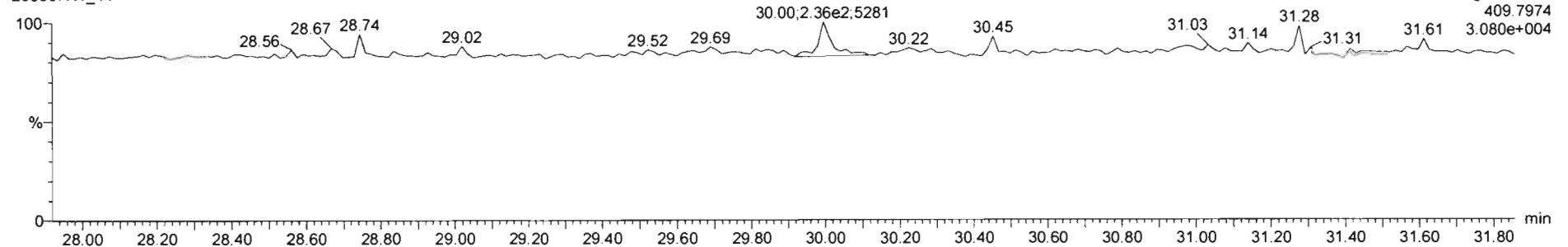


200307R1_11



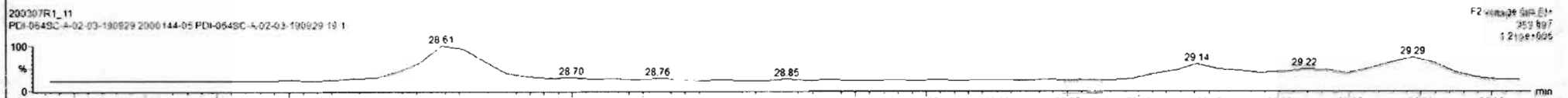
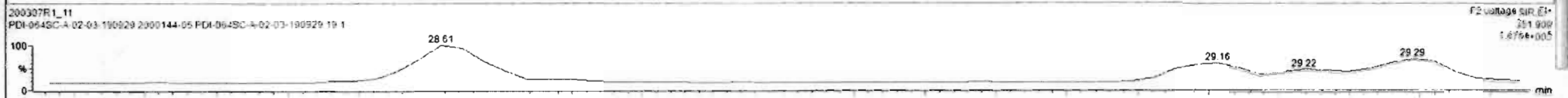
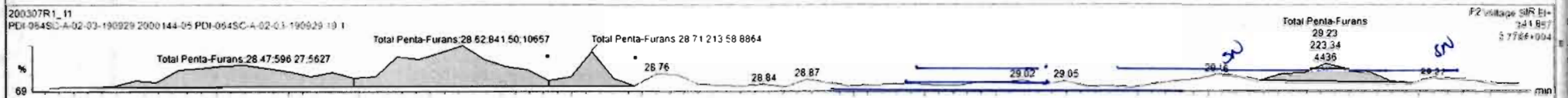
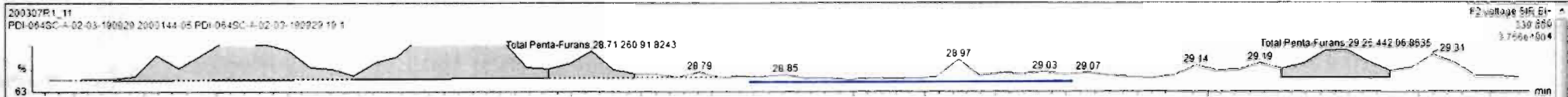
DPE2

200307R1_11



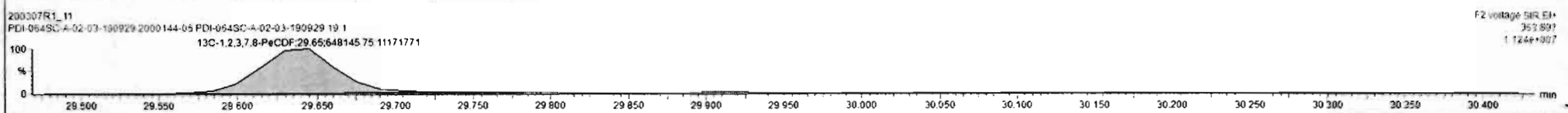
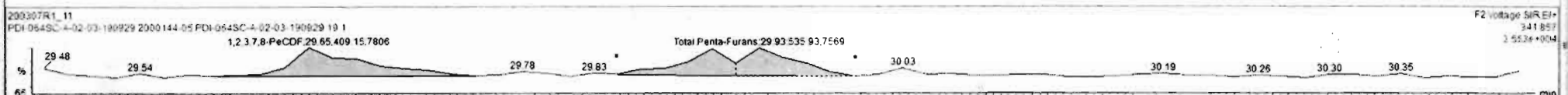
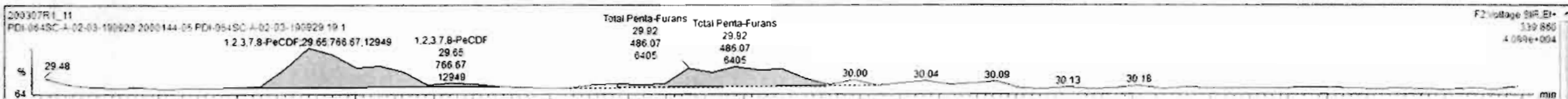
Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.98	10.003			1.52		0.100	2.97
42 Total Hepta-Dioxins				1.01	10.003			5.18		0.163	5.18
43 Total Tetra-Furans				0.92	10.003			4.43		0.0942	4.94
44 1st Func. Penta-Furans				0.96	10.003			0.000		0.0144	0.135
45 Total Penta-Furans				0.90	10.003			0.421		0.0680	1.85
46 Total Hexa-Furans				1.09	10.002			0.153		0.0649	0.521
47 Total Hepta-Furans				1.05	10.002			0.000		0.0511	0.235
48 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.45	1.072e3	5.562e2	1.66	YES	0.19368	0.00000
2 Total Penta-Furans	28.64	1.487e3	8.415e2	1.74	NO	0.29406	0.29406
3 Total Penta-Furans	28.71	2.699e2	2.136e2	1.22	YES	0.054875	0.00000
4 Total Penta-Furans	29.25	4.421e2	2.233e2	1.98	YES	0.072545	0.00000
5 1,2,3,7,8-PeCDF	29.65	7.867e2	4.692e2	1.67	YES	0.13026	0.00000
6 Total Penta-Furans	29.92	5.624e2	2.921e2	1.92	YES	0.094288	0.00000
7 Total Penta-Furans	30.56	3.828e2	3.183e2	1.21	YES	0.060172	0.00000
8 2,3,4,7,8-PeCDF	30.67	6.065e2	4.168e2	1.45	NO	0.12719	0.12719



Name	Resp	RA	n/y	RRF	wtPct	RT	RRT	Conc	%Rec	DL	EMPC
41 Total Hexa-Dioxine				0.98	10.003			1.52		0.100	2.97
42 Total Hepta-Dioxine				1.01	10.003			5.18		0.163	5.18
43 Total Tetra-Furans				0.52	10.003			4.43		0.0942	4.94
44 1st Func. Penta-Furans				0.56	10.003			0.000		0.0144	0.135
45 Total Penta-Furans				0.95	10.003			0.421		0.0688	1.85
46 Total Hexa-Furans				1.09	10.003			0.153		0.0649	0.521
47 Total Hepta-Furans				1.05	10.003			0.000		0.0561	0.235
48 PFK1											

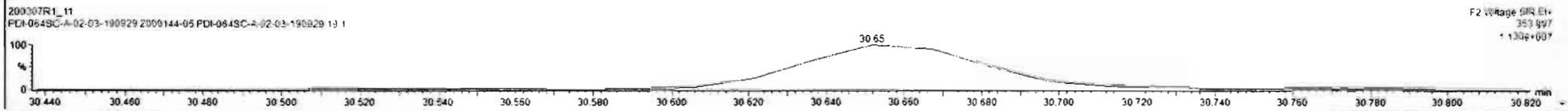
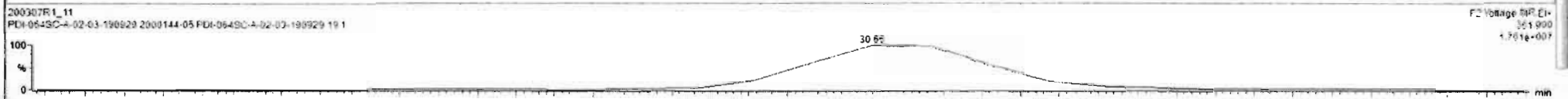
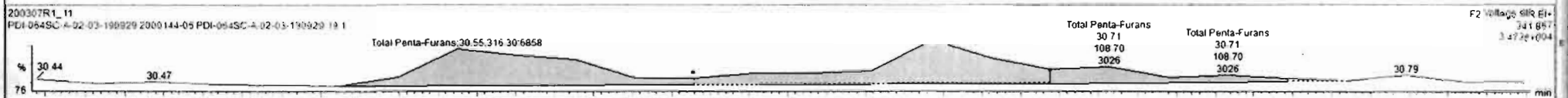
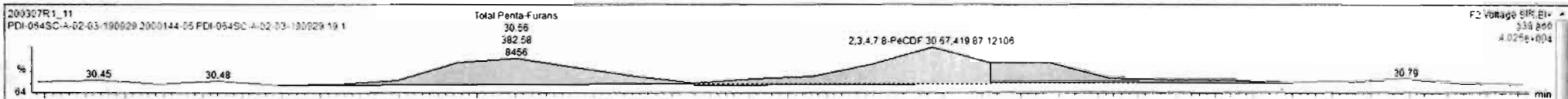
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.45	1.073e3	5.563e2	1.80	YES	0.19368	0.00000
2 Total Penta-Furans	28.54	1.457e3	8.415e2	1.74	NO	0.2940E	0.2940E
3 Total Penta-Furans	28.71	2.609e2	2.136e2	1.22	YES	0.054675	0.00000
4 Total Penta-Furans	29.25	4.421e2	2.233e2	1.96	YES	0.072545	0.00000
5 1,2,3,7,8-PeCDF	29.65	7.667e2	4.092e2	1.87	YES	0.13026	0.00000
6 Total Penta-Furans	29.92	4.861e2	5.359e2	0.91	YES	0.10188	0.00000
7 Total Penta-Furans	30.56	3.826e2	3.163e2	1.21	YES	0.080172	0.00000
8 2,3,4,7,8-PeCDF	30.67	8.065e2	4.168e2	1.45	NO	0.12719	0.12719



Custom Reporting: Select reports to generate

#	Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans				0.98	10.003						
46	Total Hexa-Furans				1.09	10.003						
47	Total Hepta-Furans				1.05	10.003						
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											
52	PFK5											

#	Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1	Total Penta-Furans	28.45	1.273e3	5.563e2	1.60	YES		
2	Total Penta-Furans	28.64	1.487e3	8.415e2	1.74	NO		
3	Total Penta-Furans	28.71	2.609e2	2.136e2	1.22	YES		
4	Total Penta-Furans	29.25	4.421e2	2.233e2	1.98	YES		
5	1,2,3,7,8-PeCDF	29.65	7.667e2	4.052e2	1.87	YES		
6	Total Penta-Furans	29.92	4.881e2	5.359e2	0.91	YES		
7	Total Penta-Furans	30.56	3.826e2	3.163e2	1.21	YES		
8	2,3,4,7,8-PeCDF	30.67	4.199e2	3.266e2	1.29	YES		
9	Total Penta-Furans	30.70	1.954e2	1.087e2	1.80	YES		



Custom Reporting: Select reports to generate

200307R1_11 CAP NUM

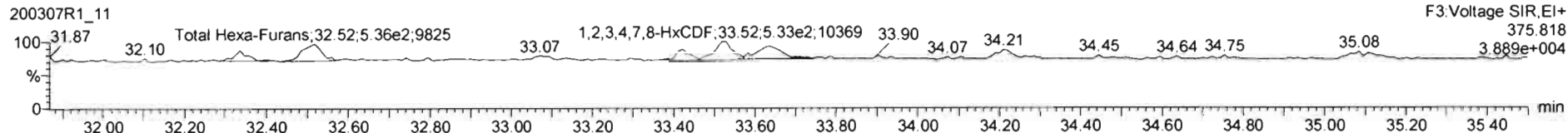
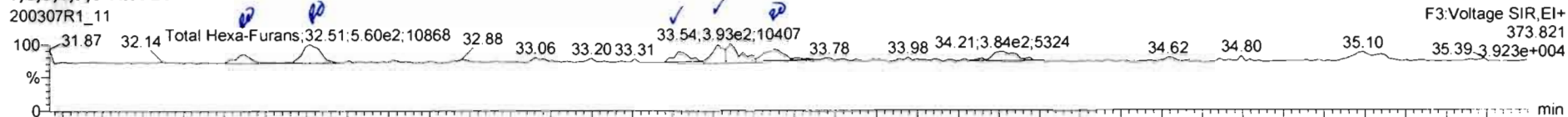
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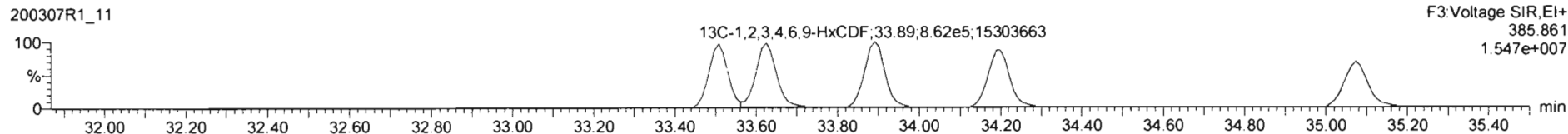
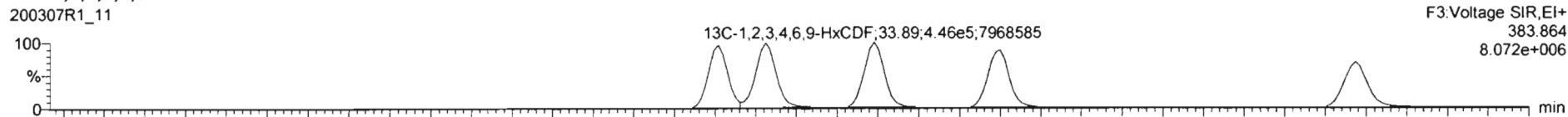
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Name: 200307R1_11, Date: 07-Mar-2020, Time: 17:38:33, ID: 2000144-05 PDI-064SC-A-02-03-190929 19.1, Description: PDI-064SC-A-02-03-190929

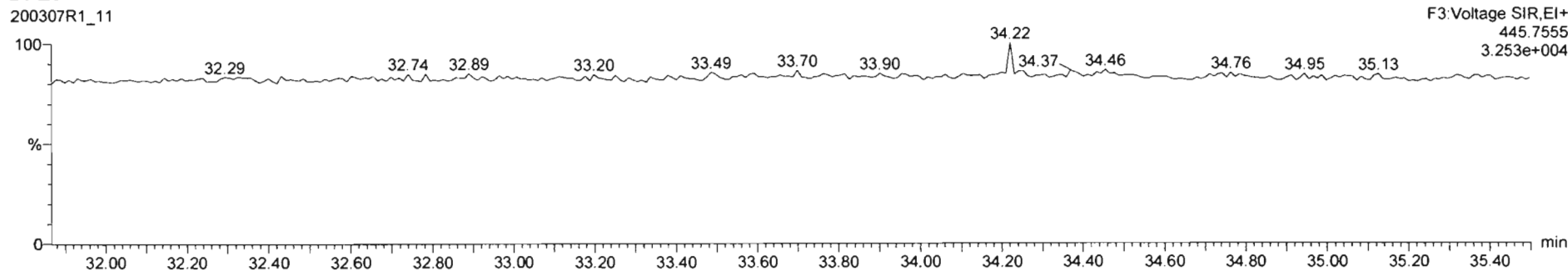
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13C-1,2,3,4,7,8-HxCDF

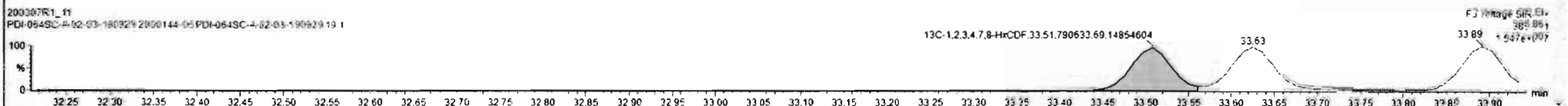
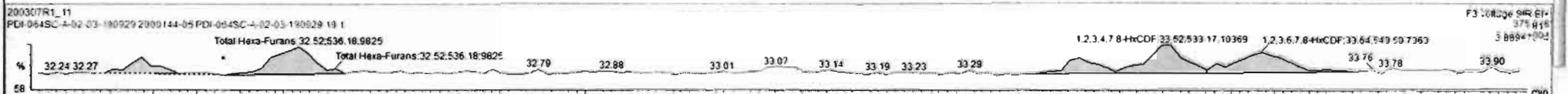
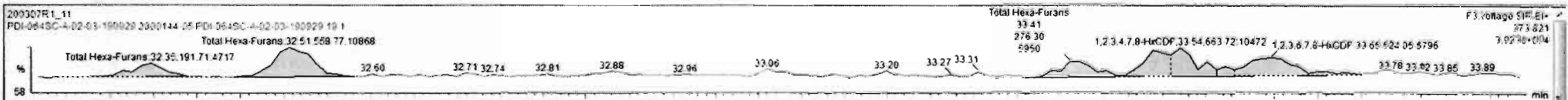


DPE3



Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.96	10.003			0.254	0.0668	1.03	
46 Total Hexa-Furans				1.09	10.003			0.272	0.0649	0.817	
47 Total Hepta-Furans				1.05	10.003			0.000	0.0561	0.235	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											

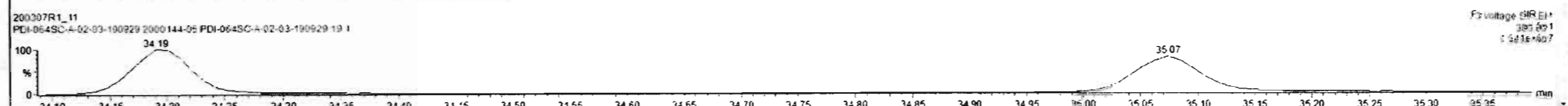
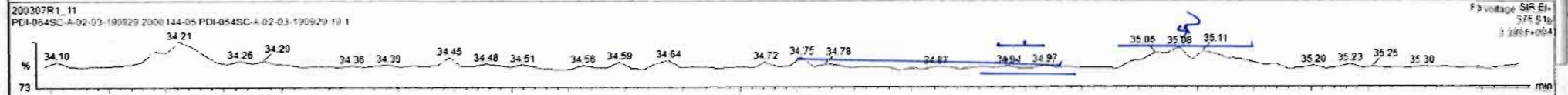
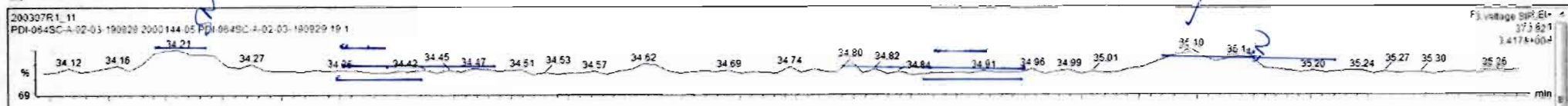
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Hexa-Furans	32.35	1.917e2	2.013e2	0.95	YES	0.052117	0.00000
2 Total Hexa-Furans	32.51	5.596e2	5.362e2	1.04	YES	0.15217	0.00000
3 Total Hexa-Furans	33.41	2.763e2	2.589e2	1.07	NO	0.080548	0.080548
4 1,2,3,4,7,8-HxCDF	33.54	6.637e2	5.332e2	1.24	NO	0.19137	0.19137
5 1,2,3,6,7,8-HxCDF	33.65	5.240e2	5.405e2	0.97	YES	0.14050	0.00000



Custom Reporting: Select reports to generate

Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.96	10.003			0.254	0.0668	1.03	
46 Total Hexa-Furans				1.09	10.003			0.272	0.0649	0.617	
47 Total Hepta-Furans				1.05	10.003			0.008	0.0561	0.235	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Hexa-Furans	32.35	1.917e2	2.013e2	0.95	YES	0.052117	0.00000
2 Total Hexa-Furans	32.51	5.598e2	5.362e2	1.04	YES	0.15217	0.00000
3 Total Hexa-Furans	33.41	2.763e2	2.589e2	1.07	NO	0.060548	0.000548
4 1,2,3,4,7,8-HxCDF	33.54	6.637e2	5.332e2	1.24	NO	0.19137	0.19137
5 1,2,3,6,7,8-HxCDF	33.65	5.240e2	5.405e2	0.97	YES	0.14050	0.00000



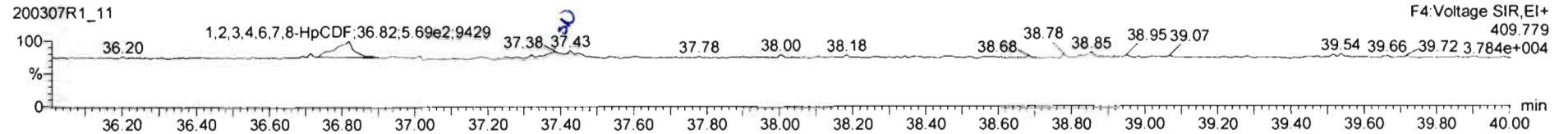
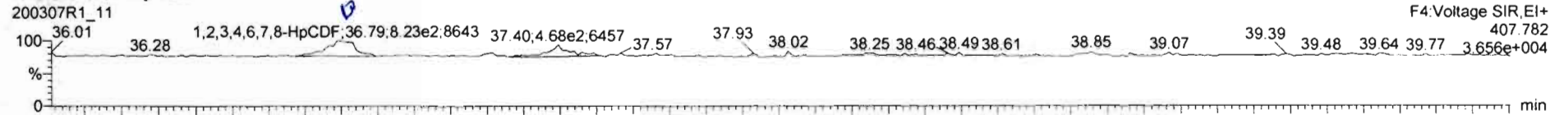
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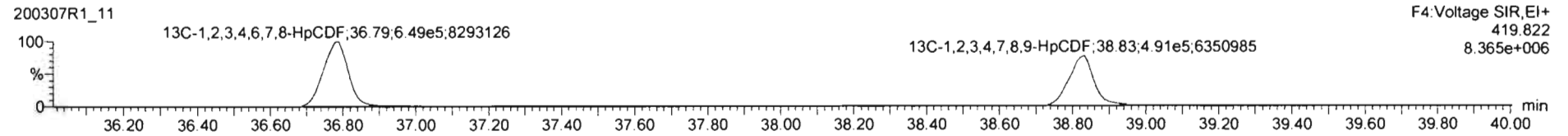
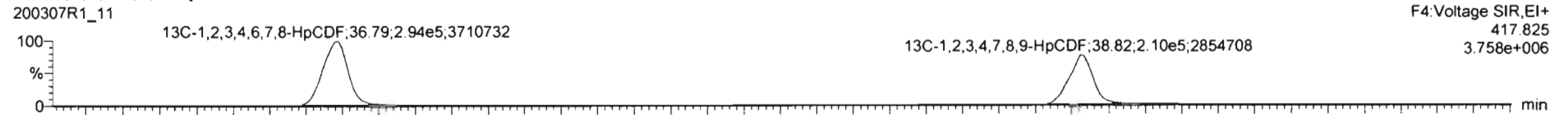
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Name: 200307R1_11, Date: 07-Mar-2020, Time: 17:38:33, ID: 2000144-05 PDI-064SC-A-02-03-190929 19.1, Description: PDI-064SC-A-02-03-190929

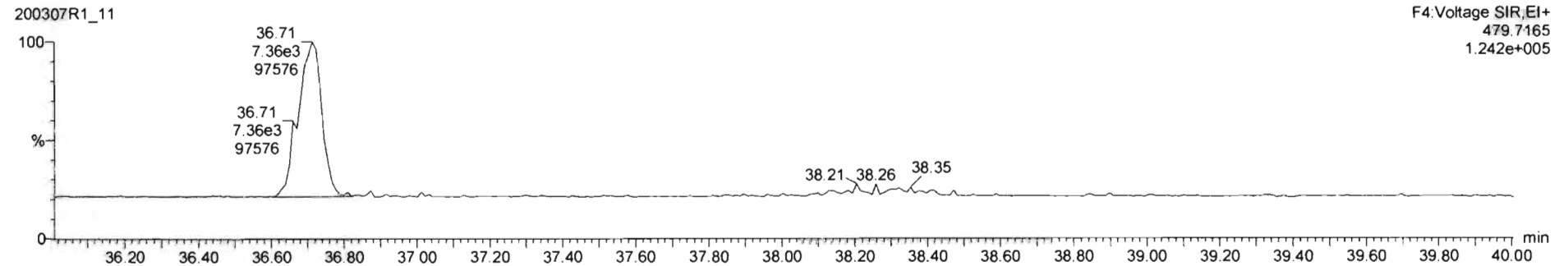
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13C-1,2,3,4,6,7,8-HpCDF



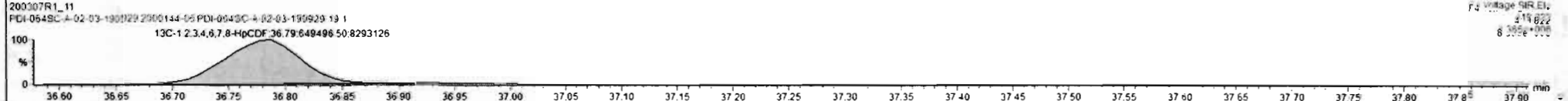
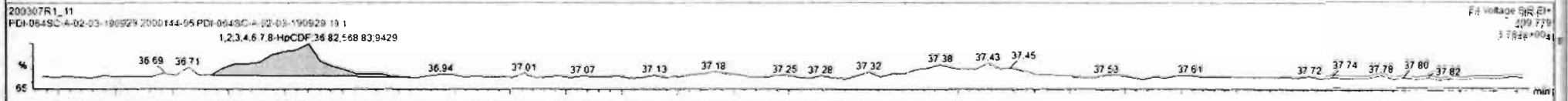
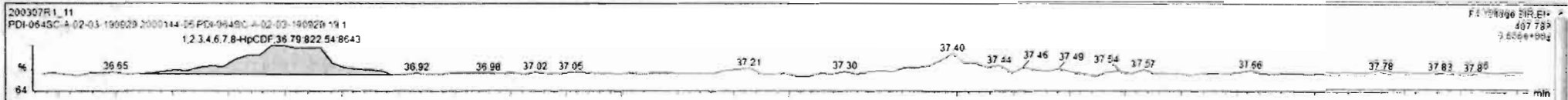
DPE4



200307R1_11 - 2000144-05 PDI-064SC-A-02-03-190929 19 1 - PDI-064SC-A-02-03-190929

Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.96	10.003			0.294		0.0688	1.03
46 Total Hexa-Furans				1.09	10.003			0.272		0.0649	0.617
47 Total Hepta-Furans				1.05	10.003			0.000		0.0561	0.235
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	36.79	6.225e2	5.686e2	1.45	YES	0.23471	3.0000

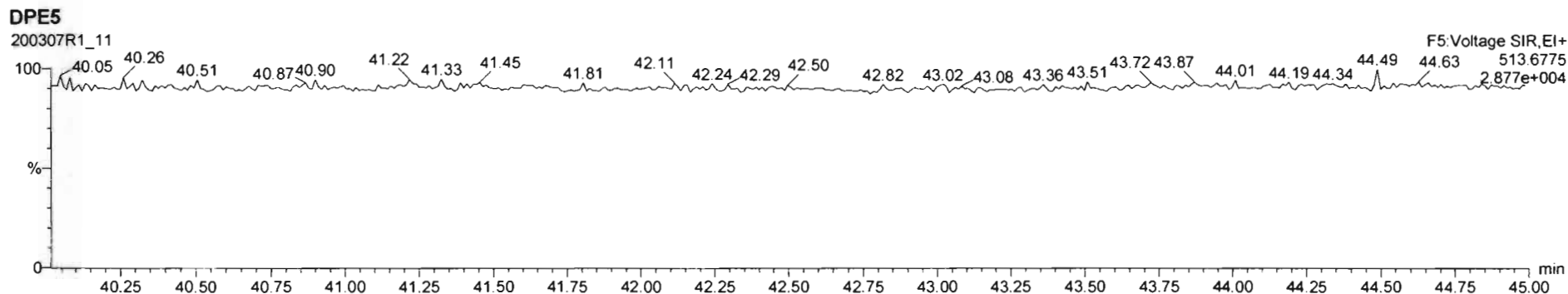
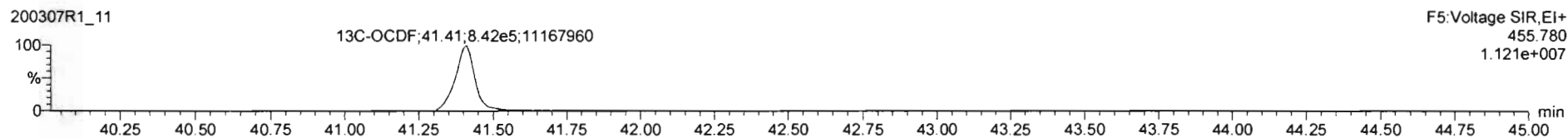
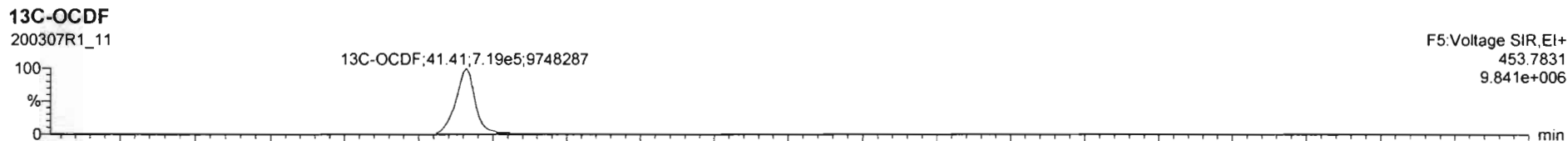
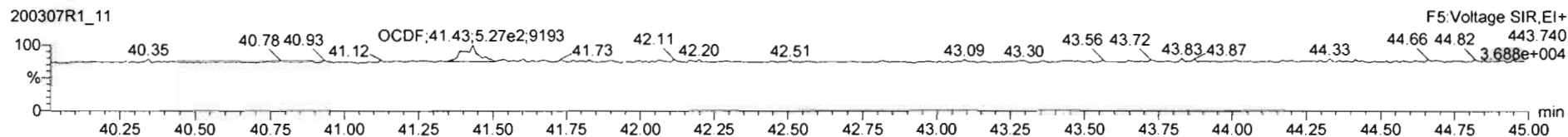
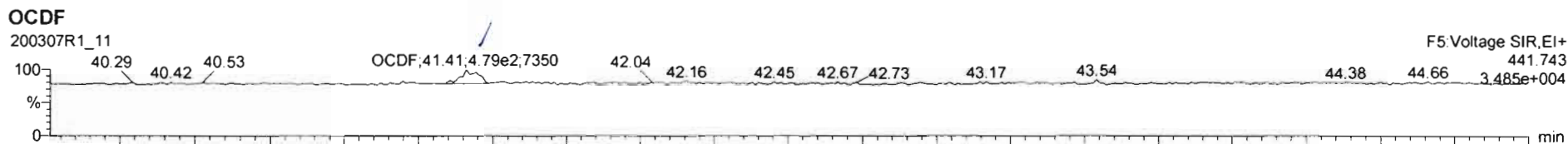


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Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time

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

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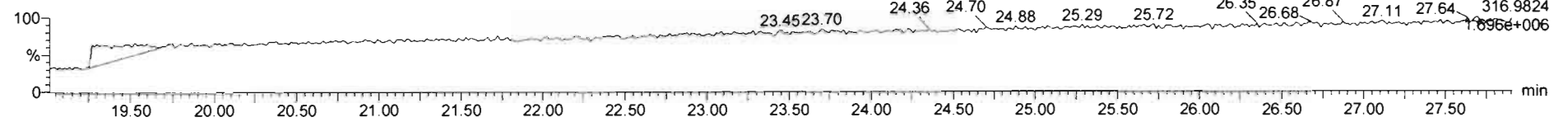
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Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

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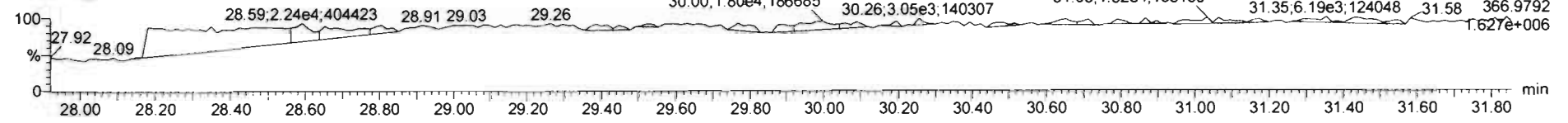
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200307R1_11



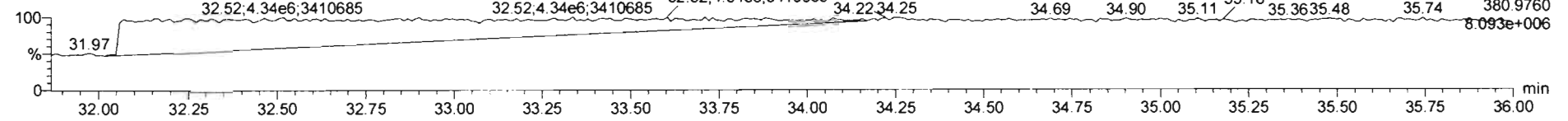
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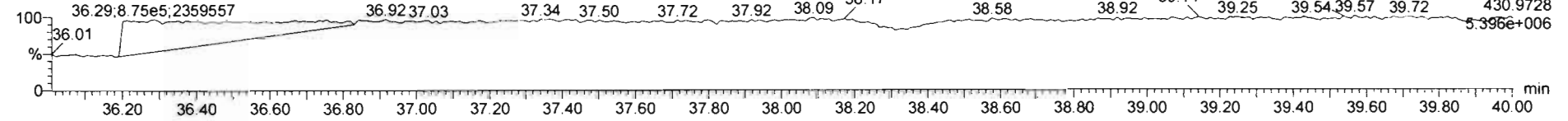
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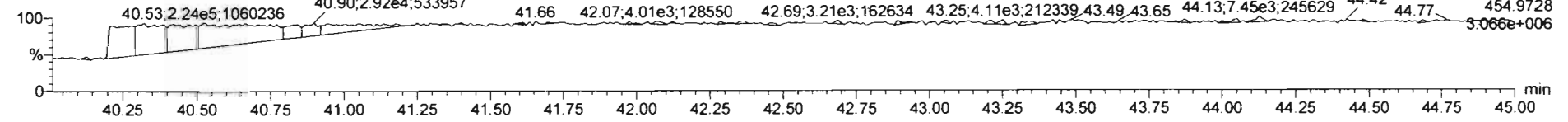
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200307R1_11



PFK5

200307R1_11



Dataset: U:\VG12.PRO\Results\200307R1\200307R1-12.qld

Last Altered: Tuesday, March 24, 2020 7:57:42 AM Pacific Daylight Time

Printed: Tuesday, March 24, 2020 8:13:49 AM Pacific Daylight Time

FA 03/24/2020

03/26/2020

Method: Untitled 06 Mar 2020 12:03:08

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

Name: 200307R1_12, Date: 07-Mar-2020, Time: 18:25:57, ID: 2000144-06 PDI-064SC-A-03-04-190929 16.68, Description: PDI-064SC-A-03-04-190929, Task: ST200307R1_1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD			No	0.9835	10.062					0.0684	
2	1,2,3,7,8-PeCDD	4.68e2	0.48	YES	0.921	10.062	30.99	1.000	0.093461		0.0928	0.0790
3	1,2,3,4,7,8-HxCDD			NO	1.13	10.062					0.0747	
4	1,2,3,6,7,8-HxCDD	7.15e2	1.38	NO	0.984	10.062	34.49	1.001	0.15046		0.0750	0.150
5	1,2,3,7,8,9-HxCDD	1.15e3	1.49	YES	0.967	10.062	34.74	1.000	0.27178		0.0905	0.245
6	1,2,3,4,6,7,8-HpCDD	6.37e3	1.22	YES	1.01	10.062	38.22	1.001	1.8283		0.280	1.68
7	OCDD	2.80e4	0.90	NO	1.05	10.062	41.23	1.000	13.611		0.228	13.6
8	2,3,7,8-TCDF	2.43e3	0.79	NO	0.915	10.062	24.82	1.001	0.26522		0.0750	0.265
9	1,2,3,7,8-PeCDF	9.26e2	1.51	NO	0.959	10.062	29.66	1.000	0.11809		0.0891	0.118
10	2,3,4,7,8-PeCDF	6.35e2	1.31	YES	1.00	10.062	30.67	1.000	0.081102		0.0889	0.0760
11	1,2,3,4,7,8-HxCDF	9.21e2	1.13	NO	1.04	10.062	33.53	1.001	0.16092		0.0565	0.161
12	1,2,3,6,7,8-HxCDF	5.85e2	1.02	YES	1.01	10.062	33.66	1.001	0.095080		0.0567	0.0870
13	2,3,4,6,7,8-HxCDF	5.72e2	1.81	YES	1.09	10.062	34.24	1.001	0.096252		0.0578	0.0770
14	1,2,3,7,8,9-HxCDF	4.97e2	1.25	NO	1.03	10.062	35.10	1.001	0.10225		0.0825	0.102
15	1,2,3,4,6,7,8-HpCDF	1.10e3	1.02	NO	1.05	10.062	36.81	1.001	0.26350		0.111	0.264
16	1,2,3,4,7,8,9-HpCDF			NO	1.21	10.062					0.127	
17	OCDF	7.88e2	0.93	NO	0.947	10.062	41.41	1.000	0.29668		0.121	0.297
18	13C-2,3,7,8-TCDD	1.45e6	0.80	NO	1.18	10.062	25.76	1.028	192.41	96.8	0.165	
19	13C-1,2,3,7,8-PeCDD	1.08e6	0.64	NO	0.864	10.062	30.97	1.236	197.30	99.3	0.235	
20	13C-1,2,3,4,7,8-HxCDD	7.89e5	1.27	NO	0.754	10.062	34.37	1.014	165.44	83.2	0.276	
21	13C-1,2,3,6,7,8-HxCDD	9.60e5	1.26	NO	0.925	10.062	34.47	1.017	163.97	82.5	0.225	
22	13C-1,2,3,7,8,9-HxCDD	8.66e5	1.27	NO	0.829	10.062	34.73	1.025	165.13	83.1	0.251	
23	13C-1,2,3,4,6,7,8-HpCDD	6.88e5	1.10	NO	0.598	10.062	38.19	1.127	181.88	91.5	0.337	
24	13C-OCDD	7.77e5	0.90	NO	0.571	10.062	41.22	1.216	215.11	54.1	0.312	
25	13C-2,3,7,8-TCDF	1.99e6	0.78	NO	1.09	10.062	24.79	0.989	186.22	93.7	0.259	
26	13C-1,2,3,7,8-PeCDF	1.62e6	1.57	NO	0.876	10.062	29.65	1.183	189.00	95.1	0.454	
27	13C-2,3,4,7,8-PeCDF	1.55e6	1.58	NO	0.844	10.062	30.67	1.224	187.47	94.3	0.472	
28	13C-1,2,3,4,7,8-HxCDF	1.10e6	0.51	NO	1.00	10.062	33.51	0.989	173.22	87.1	0.337	
29	13C-1,2,3,6,7,8-HxCDF	1.20e6	0.52	NO	1.12	10.062	33.63	0.992	169.70	85.4	0.301	
30	13C-2,3,4,6,7,8-HxCDF	1.08e6	0.53	NO	1.04	10.062	34.20	1.009	165.27	83.1	0.325	

Dataset: U:\VG12.PRO\Results\200307R1\200307R1-12.qld

Last Altered: Tuesday, March 24, 2020 7:57:42 AM Pacific Daylight Time

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Name: 200307R1_12, Date: 07-Mar-2020, Time: 18:25:57, ID: 2000144-06 PDI-064SC-A-03-04-190929 16.68, Description: PDI-064SC-A-03-04-190929, Task: ST200307R1_1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
31	13C-1,2,3,7,8,9-HxCDF	9.40e5	0.51	NO	0.873	10.062	35.07	1.035	170.29	85.7	0.386	
32	13C-1,2,3,4,6,7,8-HpCDF	7.92e5	0.44	NO	0.771	10.062	36.78	1.085	162.53	81.8	0.356	
33	13C-1,2,3,4,7,8,9-HpCDF	5.59e5	0.45	NO	0.519	10.062	38.81	1.145	170.33	85.7	0.528	
34	13C-OCDF	1.11e6	0.89	NO	0.696	10.062	41.40	1.222	253.12	63.7	0.235	
35	37Cl-2,3,7,8-TCDD	5.34e5			1.17	10.062	25.80	1.029	71.745	90.2	0.0787	
36	13C-1,2,3,4-TCDD	1.26e6	0.81	NO	1.00	10.062	25.06	1.000	198.78	100	0.196	
37	13C-1,2,3,4-TCDF	1.95e6	0.80	NO	1.00	10.062	23.19	1.000	198.78	100	0.282	
38	13C-1,2,3,4,6,9-HxCDF	1.26e6	0.52	NO	1.00	10.062	33.89	1.000	198.78	100	0.337	
39	Total Tetra-Dioxins				0.983	10.062			0.43710		0.0684	0.437
40	Total Penta-Dioxins				0.921	10.062			0.68959		0.0928	0.975
41	Total Hexa-Dioxins				0.984	10.062			2.4208		0.0829	2.67
42	Total Hepta-Dioxins				1.01	10.062			2.6376		0.200	4.32
43	Total Tetra-Furans				0.915	10.062			3.1923		0.0750	3.69
44	1st Func. Penta-Furans				0.959	10.062			0.11478		0.0308	0.115
45	Total Penta-Furans				0.959	10.062			0.55338		0.0910	0.799
46	Total Hexa-Furans				1.09	10.062			0.47014		0.0596	0.697
47	Total Hepta-Furans				1.05	10.062			0.26350		0.126	0.264

Dataset: U:\VG12.PRO\Results\200307R1\200307R1-12.qld

Last Altered: Tuesday, March 24, 2020 7:57:42 AM Pacific Daylight Time
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Method: Untitled 06 Mar 2020 12:03:08

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

Name: 200307R1_12, Date: 07-Mar-2020, Time: 18:25:57, ID: 2000144-06 PDI-064SC-A-03-04-190929 16.68, Description: PDI-064SC-A-03-04-190929,
 Task: ST200307R1_1

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.37	1.114e4	1.465e4	1.117e3	1.442e3	0.77	NO	2.560e3	0.35800	0.35800	0.0684
2	Total Tetra-Dioxins	26.15	4.166e3	4.482e3	2.277e2	3.378e2	0.67	NO	5.655e2	0.079101	0.079000	0.0684

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.71	6.192e3	1.505e4	2.632e2	5.977e2	0.44	YES	0.000e0	0.00000	0.13600	0.0928
2	Total Penta-Dioxins	29.19	9.401e3	1.676e4	4.322e2	6.870e2	0.63	NO	1.119e3	0.22327	0.22300	0.0928
3	Total Penta-Dioxins	29.72	5.610e3	1.177e4	2.842e2	5.252e2	0.54	NO	8.095e2	0.16148	0.16100	0.0928
4	Total Penta-Dioxins	29.98	4.989e3	4.990e3	2.169e2	2.164e2	1.00	YES	0.000e0	0.00000	0.070000	0.0928
5	Total Penta-Dioxins	30.21	7.045e3	1.130e4	4.089e2	7.196e2	0.57	NO	1.129e3	0.22513	0.22500	0.0928
6	Total Penta-Dioxins	30.55	2.438e3	4.834e3	1.573e2	2.423e2	0.65	NO	3.996e2	0.079710	0.080000	0.0928
7	1,2,3,7,8-PeCDD	30.99	3.347e3	8.380e3	1.526e2	3.159e2	0.48	YES	4.685e2	0.00000	0.079000	0.0928

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.90	5.713e4	5.069e4	2.976e3	2.497e3	1.19	NO	5.473e3	1.2677	1.2680	0.0829
2	Total Hexa-Dioxins	33.47	1.963e4	1.327e4	9.152e2	6.930e2	1.32	NO	1.608e3	0.37252	0.37300	0.0829
3	Total Hexa-Dioxins	33.72	2.141e4	1.920e4	1.468e3	1.252e3	1.17	NO	2.720e3	0.63015	0.63000	0.0829
4	1,2,3,6,7,8-HxCDD	34.49	7.881e3	6.589e3	4.150e2	3.002e2	1.38	NO	7.152e2	0.15046	0.15000	0.0750
5	1,2,3,7,8,9-HxCDD	34.74	1.311e4	9.387e3	6.856e2	4.602e2	1.49	YES	1.146e3	0.00000	0.24500	0.0905

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.18	6.516e4	6.043e4	4.572e3	4.616e3	0.99	NO	9.187e3	2.6376	2.6380	0.200
2	1,2,3,4,6,7,8-HpCDD	38.22	4.228e4	3.502e4	3.503e3	2.866e3	1.22	YES	6.368e3	0.00000	1.6780	0.200

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Dataset: U:\VG12.PRO\Results\200307R1\200307R1-12.qld

Last Altered: Tuesday, March 24, 2020 7:57:42 AM Pacific Daylight Time

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Name: 200307R1_12, Date: 07-Mar-2020, Time: 18:25:57, ID: 2000144-06 PDI-064SC-A-03-04-190929 16.68, Description: PDI-064SC-A-03-04-190929, Task: ST200307R1_1

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	19.46	1.107e4	1.400e4	8.596e2	1.089e3	0.79	NO	1.948e3	0.21260	0.21300	0.0750
2	Total Tetra-Furans	19.97	7.845e3	7.988e3	3.525e2	5.064e2	0.70	NO	8.589e2	0.093728	0.094000	0.0750
3	Total Tetra-Furans	20.56	3.156e4	3.679e4	2.735e3	3.564e3	0.77	NO	6.299e3	0.68738	0.68700	0.0750
4	Total Tetra-Furans	20.95	4.204e3	5.582e3	2.530e2	2.988e2	0.85	NO	5.518e2	0.060216	0.060000	0.0750
5	Total Tetra-Furans	21.09	1.438e4	2.030e4	1.603e3	2.368e3	0.68	NO	3.970e3	0.43325	0.43300	0.0750
6	Total Tetra-Furans	21.51	1.038e4	1.230e4	1.392e3	1.816e3	0.77	NO	3.208e3	0.35010	0.35000	0.0750
7	Total Tetra-Furans	21.92	5.598e3	8.743e3	5.115e2	6.880e2	0.74	NO	1.200e3	0.13089	0.13100	0.0750
8	Total Tetra-Furans	22.08	4.582e3	5.446e3	3.126e2	4.007e2	0.78	NO	7.134e2	0.077844	0.078000	0.0750
9	Total Tetra-Furans	22.92	7.623e3	6.761e3	4.307e2	6.072e2	0.71	NO	1.038e3	0.11326	0.11300	0.0750
10	Total Tetra-Furans	23.10	6.845e3	1.382e4	4.944e2	8.036e2	0.62	YES	0.000e0	0.00000	0.12400	0.0750
11	Total Tetra-Furans	23.22	9.039e3	1.588e4	9.212e2	1.573e3	0.59	YES	0.000e0	0.00000	0.23100	0.0750
12	Total Tetra-Furans	23.79	1.239e4	1.576e4	1.030e3	1.341e3	0.77	NO	2.371e3	0.25875	0.25900	0.0750
13	Total Tetra-Furans	24.12	5.441e3	8.263e3	3.431e2	4.644e2	0.74	NO	8.075e2	0.088109	0.088000	0.0750
14	Total Tetra-Furans	24.33	5.475e3	6.603e3	4.305e2	4.475e2	0.96	YES	0.000e0	0.00000	0.086000	0.0750
15	Total Tetra-Furans	24.57	5.581e3	9.192e3	4.212e2	5.506e2	0.76	NO	9.717e2	0.10604	0.10600	0.0750
16	Total Tetra-Furans	24.70	4.084e3	5.735e3	2.513e2	3.737e2	0.67	NO	6.251e2	0.068207	0.068000	0.0750
17	2,3,7,8-TCDF	24.82	1.394e4	1.645e4	1.072e3	1.358e3	0.79	NO	2.431e3	0.26522	0.26500	0.0750
18	Total Tetra-Furans	25.23	1.113e4	1.587e4	9.776e2	1.283e3	0.76	NO	2.261e3	0.24668	0.24700	0.0750
19	Total Tetra-Furans	26.96	7.721e3	6.273e3	4.603e2	3.167e2	1.45	YES	0.000e0	0.00000	0.061000	0.0750

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	26.95	7.809e3	5.233e3	5.610e2	3.188e2	1.76	NO	8.798e2	0.11478	0.11500	0.0308

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Dataset: U:\VG12.PRO\Results\200307R1\200307R1-12.qld

Last Altered: Tuesday, March 24, 2020 7:57:42 AM Pacific Daylight Time

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Name: 200307R1_12, Date: 07-Mar-2020, Time: 18:25:57, ID: 2000144-06 PDI-064SC-A-03-04-190929 16.68, Description: PDI-064SC-A-03-04-190929, Task: ST200307R1_1

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.47	8.712e3	7.501e3	6.512e2	4.937e2	1.32	NO	1.145e3	0.14935	0.14900	0.0910
2	Total Penta-Furans	28.61	1.114e4	9.257e3	1.013e3	6.502e2	1.56	NO	1.663e3	0.21699	0.21700	0.0910
3	1,2,3,7,8-PeCDF	29.66	1.063e4	6.752e3	5.572e2	3.689e2	1.51	NO	9.261e2	0.11809	0.11800	0.0891
4	Total Penta-Furans	29.95	8.106e3	6.013e3	3.800e2	3.377e2	1.13	YES	0.000e0	0.00000	0.082000	0.0910
5	Total Penta-Furans	30.58	7.534e3	1.070e4	4.128e2	3.833e2	1.08	YES	0.000e0	0.00000	0.089000	0.0910
6	2,3,4,7,8-PeCDF	30.67	1.081e4	7.185e3	3.604e2	2.748e2	1.31	YES	6.352e2	0.00000	0.076000	0.0889
7	Total Penta-Furans	30.70	1.028e4	5.526e3	3.135e2	2.150e2	1.46	NO	5.285e2	0.068953	0.069000	0.0910

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.52	1.194e4	1.042e4	6.184e2	4.523e2	1.37	NO	1.071e3	0.18051	0.18100	0.0596
2	Total Hexa-Furans	33.42	5.893e3	3.768e3	2.422e2	1.677e2	1.45	YES	0.000e0	0.00000	0.063000	0.0596
3	1,2,3,4,7,8-HxCDF	33.53	1.152e4	8.214e3	4.882e2	4.328e2	1.13	NO	9.210e2	0.16092	0.16100	0.0565
4	1,2,3,6,7,8-HxCDF	33.66	5.536e3	5.173e3	2.953e2	2.895e2	1.02	YES	5.848e2	0.00000	0.087000	0.0567
5	2,3,4,6,7,8-HxCDF	34.24	5.786e3	3.966e3	3.687e2	2.036e2	1.81	YES	5.723e2	0.00000	0.077000	0.0578
6	1,2,3,7,8,9-HxCDF	35.10	5.536e3	4.064e3	2.760e2	2.207e2	1.25	NO	4.967e2	0.10225	0.10200	0.0825
7	Total Hexa-Furans	35.13	2.168e3	1.641e3	9.002e1	6.686e1	1.35	NO	1.569e2	0.026451	0.026000	0.0596

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.81	7.681e3	9.248e3	5.550e2	5.461e2	1.02	NO	1.101e3	0.26350	0.26400	0.111

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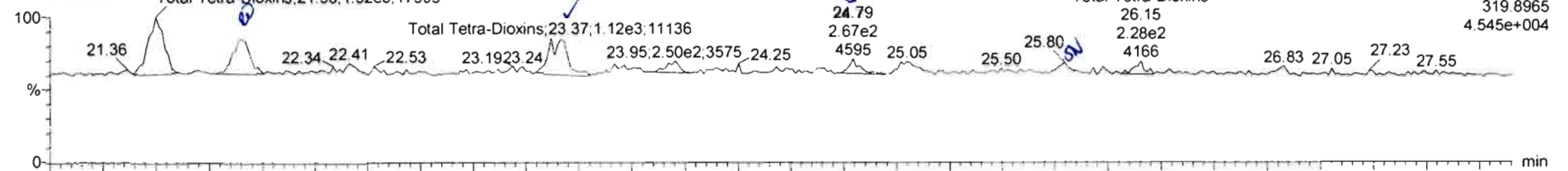
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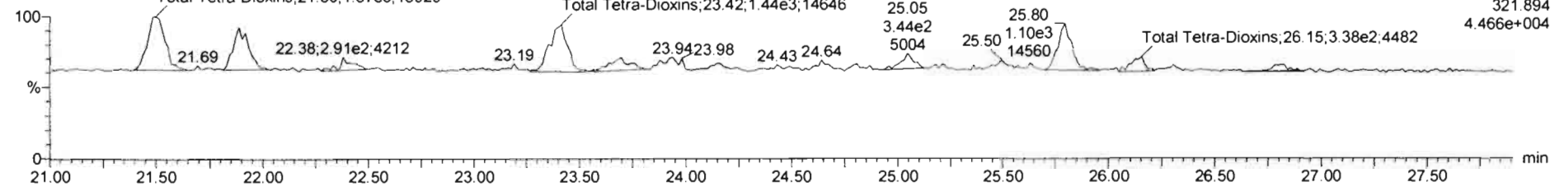
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2,3,7,8-TCDD

200307R1_12

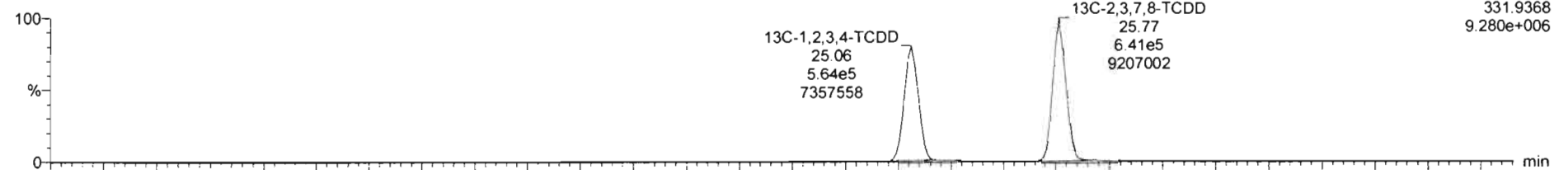


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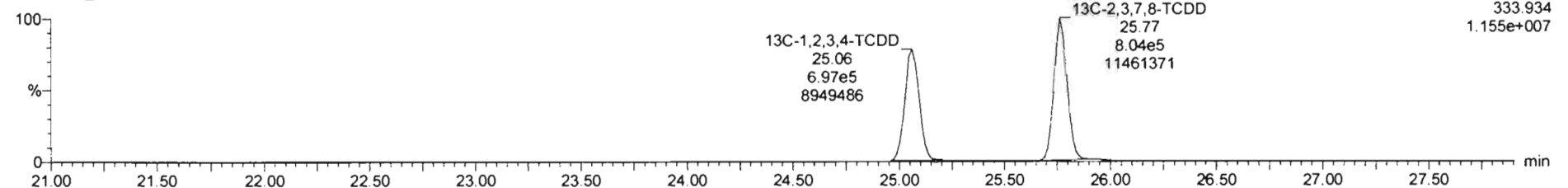


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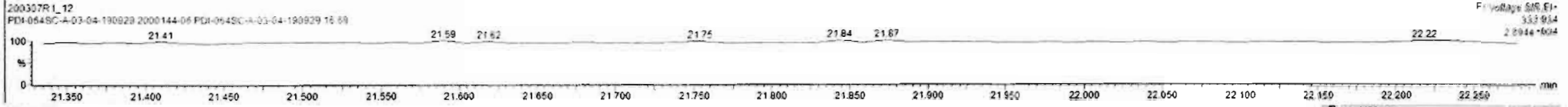
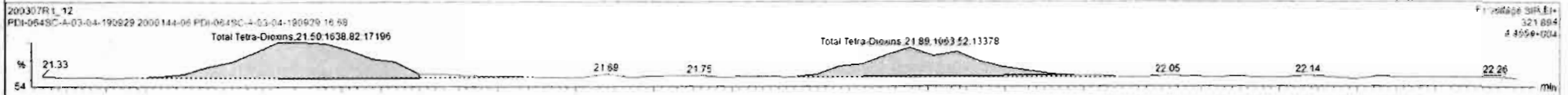


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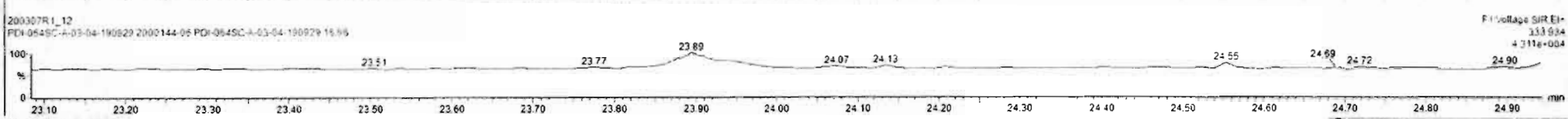
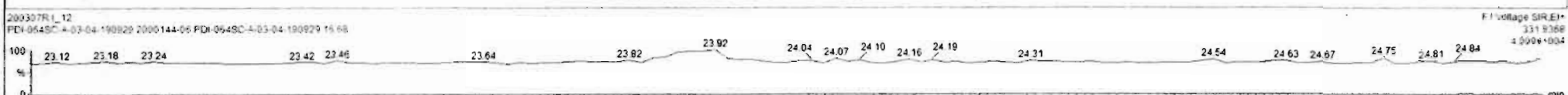
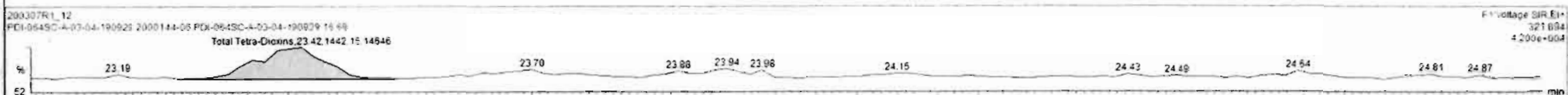
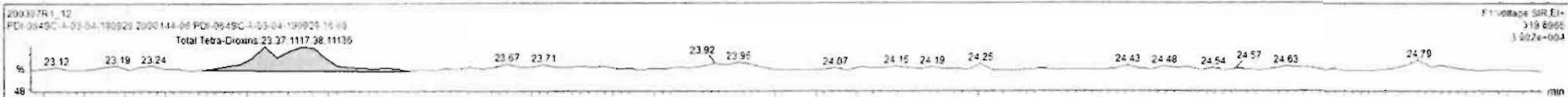
#	Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.98	10.062			0.437		0.0684	1.11
40	Total Penta-Dioxins				0.92	10.062			0.618		0.0528	0.847
41	Total Hexa-Dioxins				0.98	10.062			2.35		0.0829	3.07
42	Total Hepta-Dioxins				1.01	10.062			2.68		0.209	4.42
43	Total Tetra-Furans				0.92	10.062			3.09		0.0750	3.68
44	1st Func. Penta-Furans				0.96	10.062			0.115		0.0308	0.115
45	Total Penta-Furans				0.96	10.062			0.649		0.0910	0.825
46	Total Hexa-Furans				1.09	10.062			0.290		0.0596	0.539
47	Total Hepta-Furans				1.05	10.062			0.264		0.126	0.264
48	PFK1											

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Tetra-Dioxins	21.50	1.504e3	1.639e3	0.92	ES	0.40572	0.00000
2	Total Tetra-Dioxins	21.89	1.051e3	1.064e2	0.99	ES	0.28329	0.00000
3	Total Tetra-Dioxins	23.37	1.117e3	1.442e3	0.77	HO	0.35800	0.35800
4	Total Tetra-Dioxins	26.15	2.277e2	3.378e2	0.67	HO	0.079101	0.079101



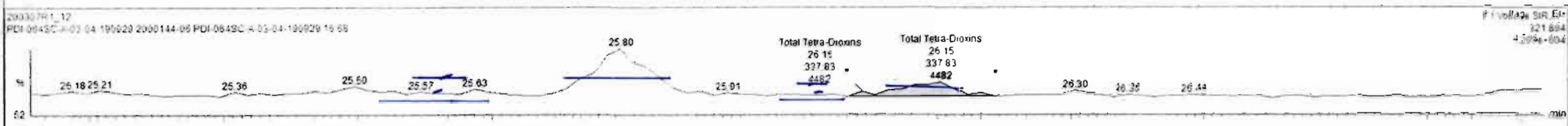
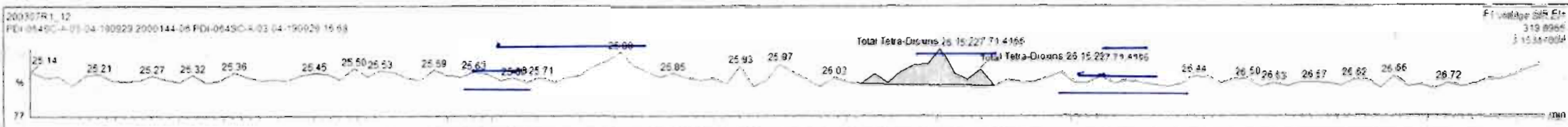
Name	Resp	RA	n/y	RRF	wt/wt	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.98	10.062			0.437		0.0664	1.11
40 Total Penta-Dioxins				0.92	10.062			0.618		0.0928	0.847
41 Total Hexa-Dioxins				0.98	10.062			2.35		0.0829	3.07
42 Total Hepta-Dioxins				1.01	10.062			2.68		0.200	4.42
43 Total Tetra-Furans				0.92	10.062			3.09		0.0750	3.68
44 1st Func. Penta-Furans				0.98	10.062			0.115		0.0306	0.115
45 Total Penta-Furans				0.98	10.062			0.849		0.0910	0.825
46 Total Hexa-Furans				1.05	10.062			0.250		0.0596	0.539
47 Total Hepta-Furans				1.05	10.062			0.264		0.126	0.264
48 DPK1											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	21.50	1.594e3	1.639e3	0.92	YES	0.40572	0.00000
2 Total Tetra-Dioxins	21.89	1.051e3	1.064e3	0.96	YES	0.28329	0.00000
3 Total Tetra-Dioxins	23.37	1.117e3	1.442e3	0.77	NO	0.15600	0.15600
4 Total Tetra-Dioxins	26.15	2.277e2	3.378e2	0.67	NO	0.079101	0.079101



Custom Reporting: Select reports to generate 200307R1_12 CAP NUM

Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
24	13C-OCDD	7.77e5	0.90	NO	0.57	10.062	41.22	1.216	215	54.1	0.312
25	13C-2,3,7,8-TCDF	1.96e6	0.78	NO	1.09	10.062	24.78	0.969	166	93.7	0.259
26	13C-1,2,3,7,8-PeCDF	1.62e6	1.57	NO	0.88	10.062	29.65	1.183	169	95.1	0.454
27	13C-2,3,4,7,8-PeCDF	1.55e6	1.58	NO	0.84	10.062	30.67	1.224	187	94.2	0.472
28	13C-1,2,3,4,7,8-HxCDF	1.10e6	0.51	NO	1.00	10.062	33.51	0.989	173	87.1	0.237
29	13C-1,2,3,6,7,8-HxCDF	1.20e6	0.52	NO	1.12	10.062	33.63	0.992	170	85.4	0.301
30	13C-2,3,4,6,7,8-HxCDF	1.08e6	0.53	NO	1.04	10.062	34.26	1.009	165	83.1	0.325
31	13C-1,2,3,7,8-HxCDF	9.40e5	0.51	NO	0.87	10.062	35.07	1.035	170	86.7	0.266
32	13C-1,2,3,4,6,7,8-HpCDF	7.92e5	0.44	NO	0.77	10.062	36.78	1.065	163	81.8	0.258
33	13C-1,2,3,4,7,8,9-HpCDF	5.59e5	0.45	NO	0.52	10.062	38.81	1.145	170	85.7	0.528
34	13C-OCDF	1.11e6	0.89	NO	0.70	10.062	41.40	1.222	253	63.7	0.235
35	3TCI-2,3,7,8-TCDD	5.34e5			1.17	10.062	25.60	1.029	71.7	90.2	0.0787
36	13C-1,2,3,4-TCDD	1.26e6	0.81	NO	1.00	10.062	25.06	1.000	199	100	0.196
37	13C-1,2,3,4-TCDF	1.85e6	0.80	NO	1.00	10.062	23.19	1.000	199	100	0.262
38	13C-1,2,3,4,6,8-HxCDF	1.26e6	0.52	NO	1.00	10.062	33.89	1.000	199	100	0.337
39	Total Tetra-Dioxins				0.98	10.062			0.437	0.0684	1.13



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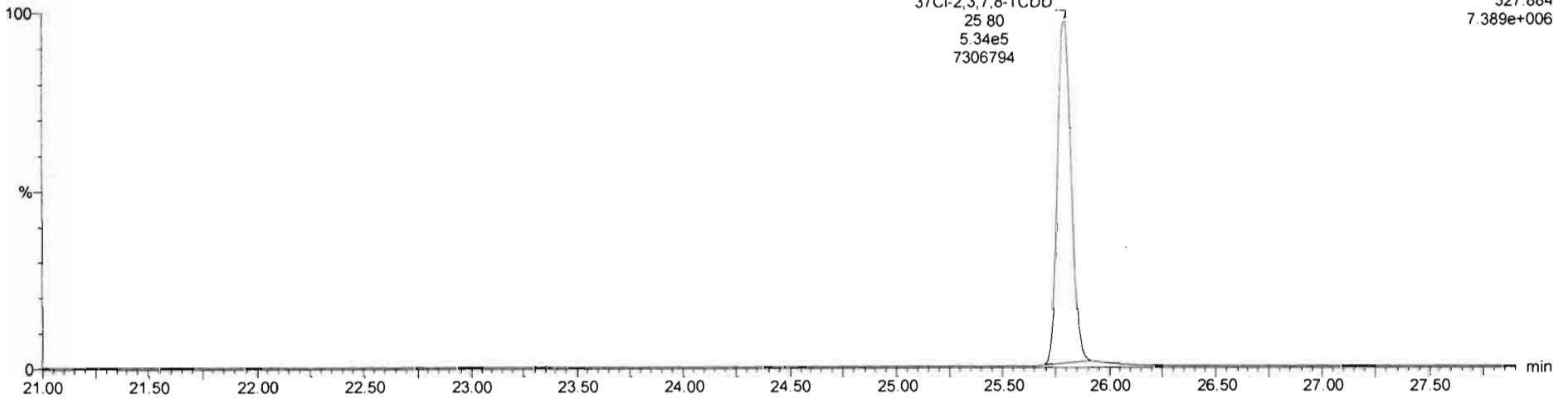
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Name: 200307R1_12, Date: 07-Mar-2020, Time: 18:25:57, ID: 2000144-06 PDI-064SC-A-03-04-190929 16.68, Description: PDI-064SC-A-03-04-190929

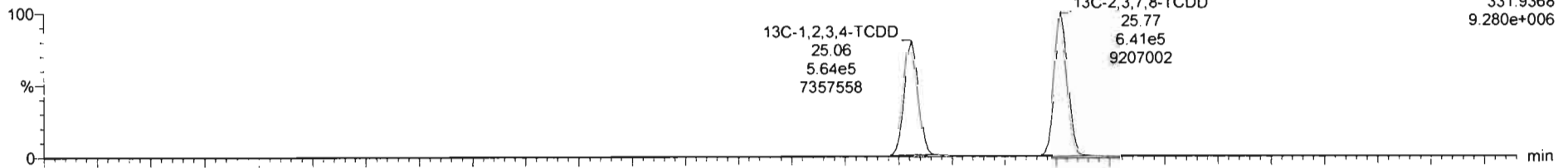
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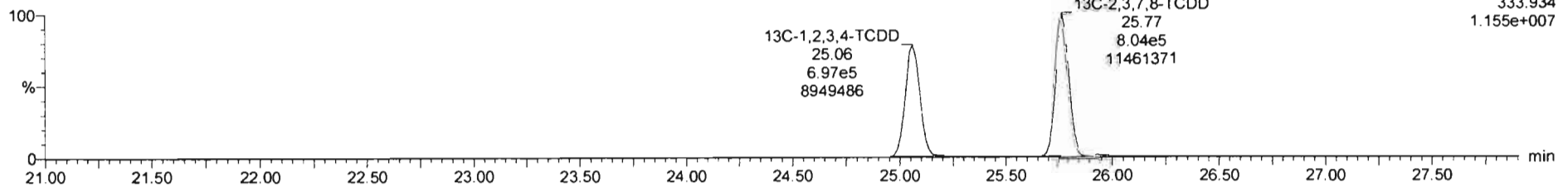


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200307R1_12



200307R1_12



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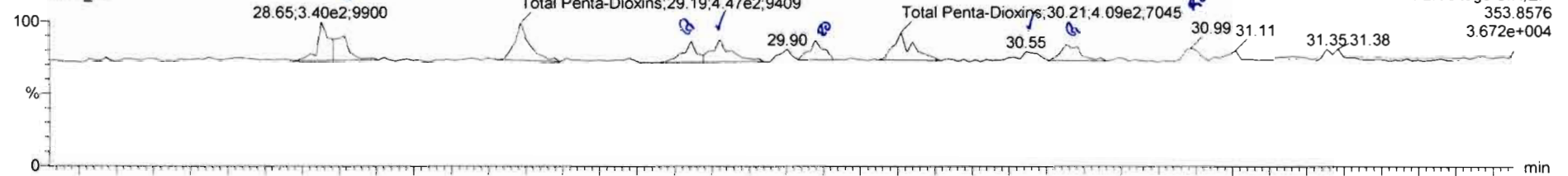
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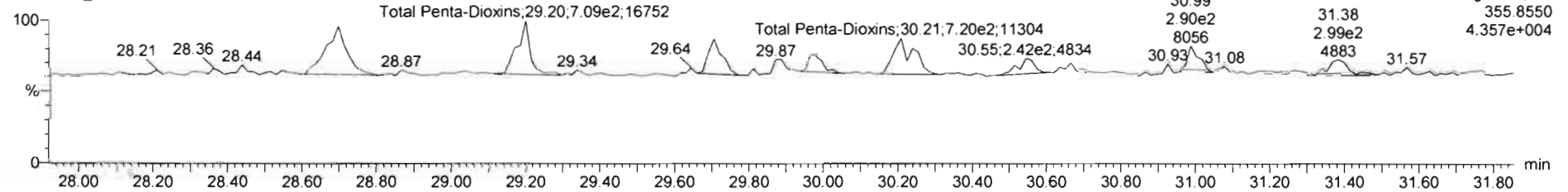
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1,2,3,7,8-PeCDD

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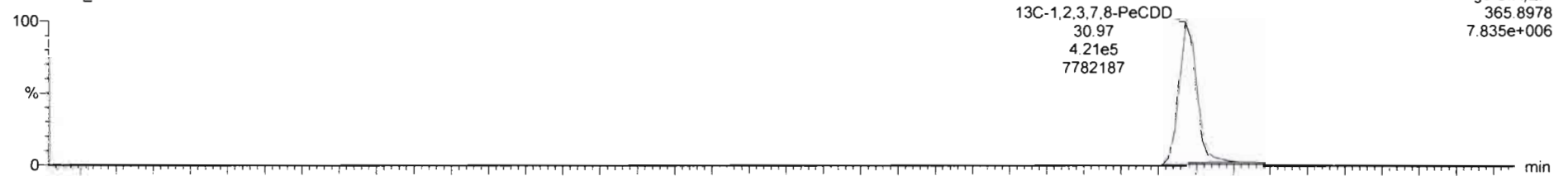


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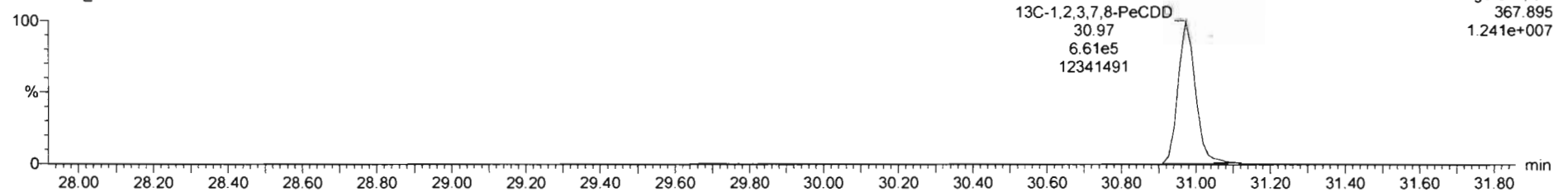


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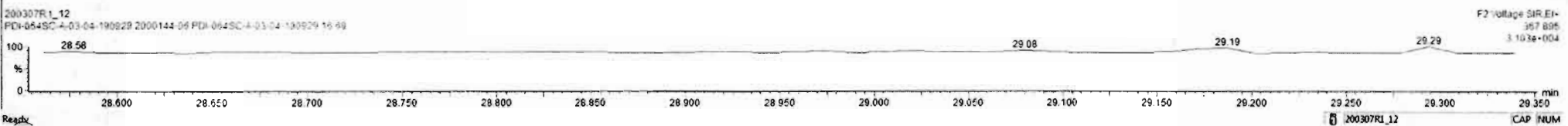


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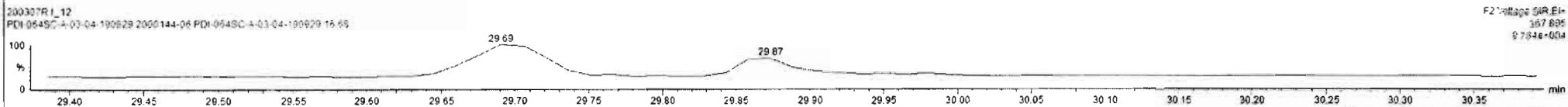
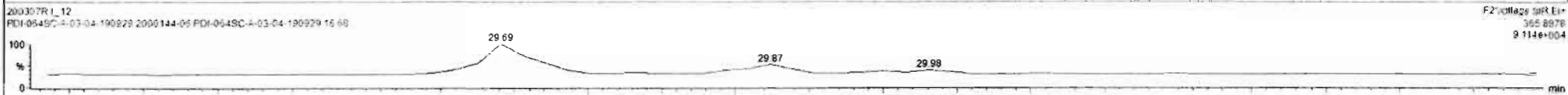
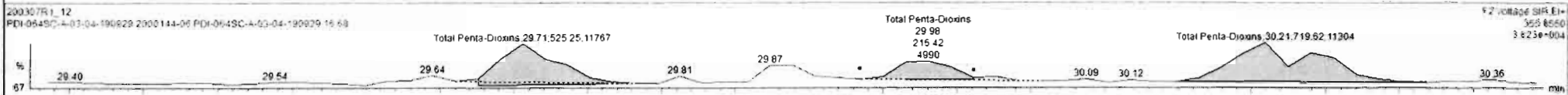
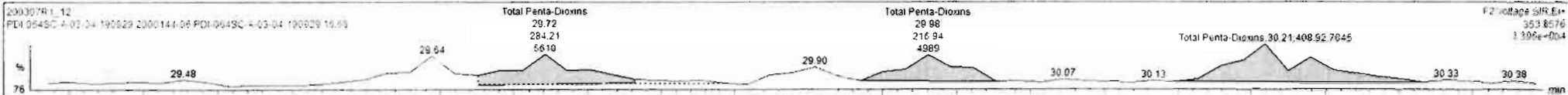
Name	Resp	RA	ny	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.98	10.062			0.437		0.0664	1.11
40 Total Penta-Dioxins				0.82	10.062			0.610		0.0926	0.829
41 Total Hexa-Dioxins				0.98	10.062			2.35		0.0629	3.07
42 Total Hepta-Dioxins				1.01	10.062			2.68		0.200	4.42
43 Total Tetra-Furans				0.92	10.062			3.09		0.0750	3.68
44 1st Func. Penta-Furans				0.96	10.082			0.115		0.0306	0.115
45 Total Penta-Furans				0.98	10.062			0.649		0.0910	0.829
46 Total Hexa-Furans				1.09	10.062			0.260		0.0596	0.539
47 Total Hepta-Furans				1.05	10.062			0.264		0.128	0.264

Name	RT	m1 Resp	m2 Resp	RA	ny	EMPC	Conc.
1 Total Penta-Dioxins	28.71	2.532e2	5.977e2	0.44	ES	0.13580	0.00000
2 Total Penta-Dioxins	29.19	4.322e2	6.870e2	0.63	NO	0.22327	0.22327
3 Total Penta-Dioxins	29.72	3.321e2	4.800e2	0.69	NO	0.16202	0.16202
4 Total Penta-Dioxins	29.98	2.189e2	2.548e2	0.85	ES	0.082940	0.00000
5 Total Penta-Dioxins	30.21	4.089e2	7.199e2	0.57	NO	0.22513	0.22513



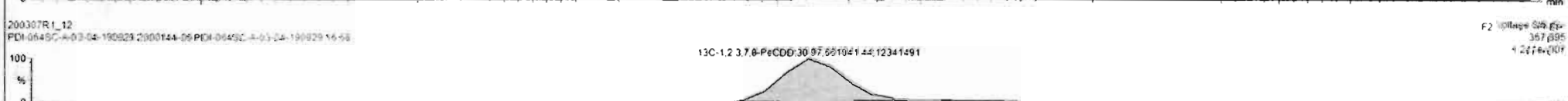
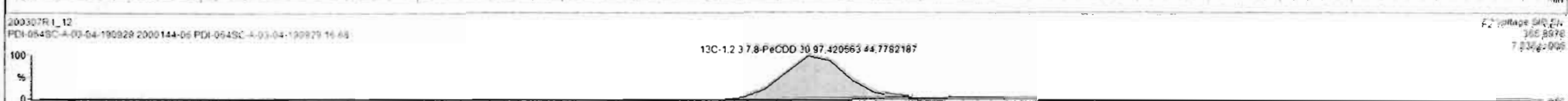
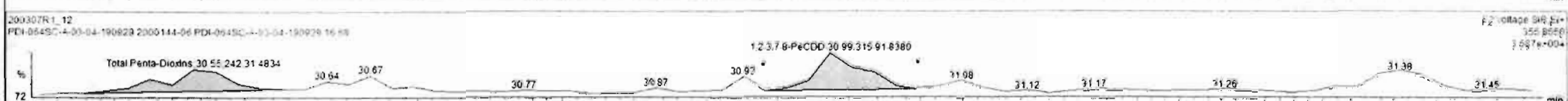
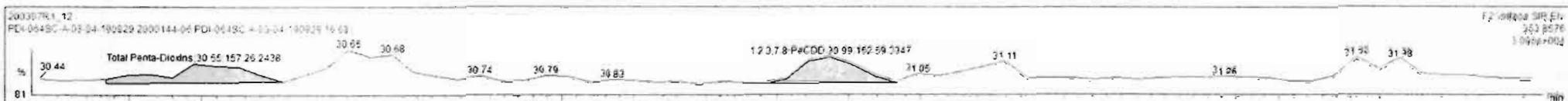
#	Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.98	10.062			0.437	0.0664	1.11	
40	Total Penta-Dioxins				0.92	10.062			0.610	0.0928	0.816	
41	Total Hexa-Dioxins				0.58	10.062			2.35	6.0829	3.07	
42	Total Hepta-Dioxins				1.01	10.062			2.68	0.200	4.43	
43	Total Tetra-Furans				0.92	10.062			3.09	0.0750	3.68	
44	1st Func. Penta-Furans				0.96	10.062			0.115	0.0308	0.115	
45	Total Penta-Furans				0.96	10.062			0.649	0.0910	0.825	
46	Total Hexa-Furans				1.05	10.062			0.290	0.0596	0.539	
47	Total Hepta-Furans				1.05	10.062			0.264	0.128	0.264	
48	PPK1											

#	Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1	Total Penta-Dioxins	28.71	2.632e2	5.977e2	0.44	ES	0.13585	0.00000
2	Total Penta-Dioxins	29.19	4.322e2	6.870e2	0.63	NO	0.22327	0.22327
3	Total Penta-Dioxins	29.72	2.642e2	5.252e2	0.54	HD	0.16148	0.16148
4	Total Penta-Dioxins	29.56	2.189e2	2.164e2	1.00	ES	0.076373	0.00000
5	Total Penta-Dioxins	30.21	4.088e2	7.196e2	0.57	NO	0.22413	0.22413



Name	Resp	RA	ruy	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.98	10.062			0.437	0.0684	0.437	
40 Total Penta-Dioxins				0.92	10.062			0.690	0.0628	0.875	
41 Total Hexa-Dioxins				0.98	10.062			2.36	0.0829	3.07	
42 Total Hepta-Dioxins				1.01	10.062			2.68	0.200	4.43	
43 Total Tetra-Furans				0.92	10.062			3.09	0.0750	3.68	
44 1st Func. Penta-Furans				0.98	10.062			0.115	0.0306	0.115	
45 Total Penta-Furans				0.98	10.062			0.649	0.0910	0.828	
46 Total Hexa-Furans				1.09	10.062			0.290	0.0596	0.539	
47 Total Hepta-Furans				1.05	10.062			0.284	0.128	0.284	
48 PPK1											

Name	RT	m1 Resp	m2 Resp	RA	ruy	EMPC	Conc.
1 Total Penta-Dioxins	28.71	2.632e2	5.977e2	0.44	YES	0.13585	0.00000
2 Total Penta-Dioxins	29.19	4.322e2	8.870e2	0.83	NO	0.22327	0.22327
3 Total Penta-Dioxins	29.72	2.842e2	5.252e2	0.54	NO	0.16148	0.16148
4 Total Penta-Dioxins	29.98	2.185e2	2.164e2	1.00	YES	0.070373	0.00000
5 Total Penta-Dioxins	30.21	4.089e2	7.196e2	0.57	NO	0.22513	0.22513
6 Total Penta-Dioxins	30.55	1.573e2	2.423e2	0.65	NO	0.079710	0.079710
7 1,2,3,7,8-PeCDD	30.99	1.526e2	7.199e2	0.46	YES	0.076756	0.00000



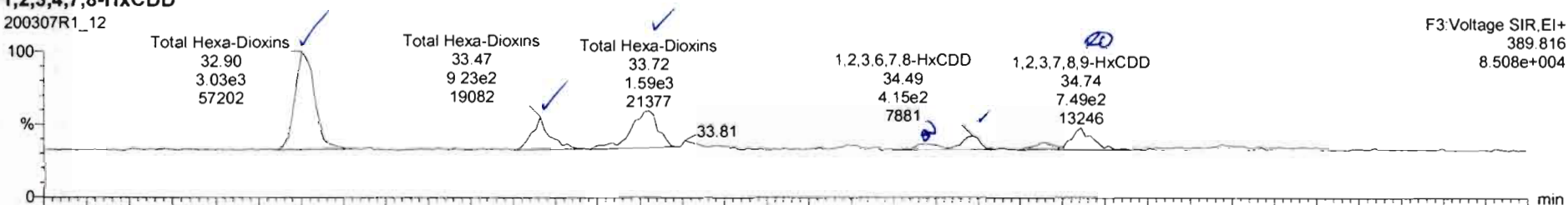
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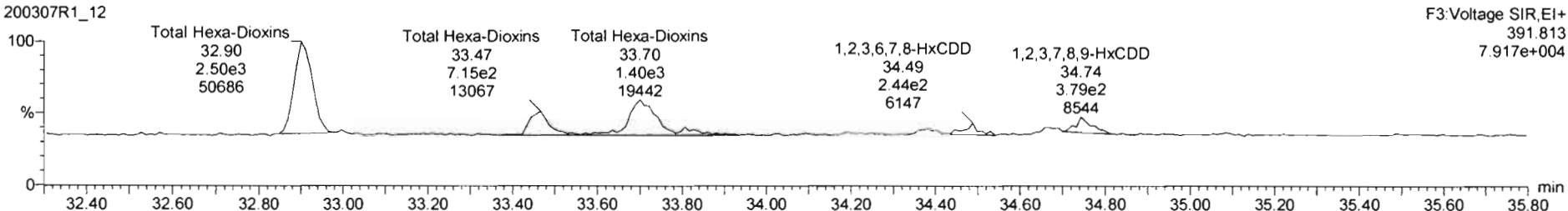
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1,2,3,4,7,8-HxCDD

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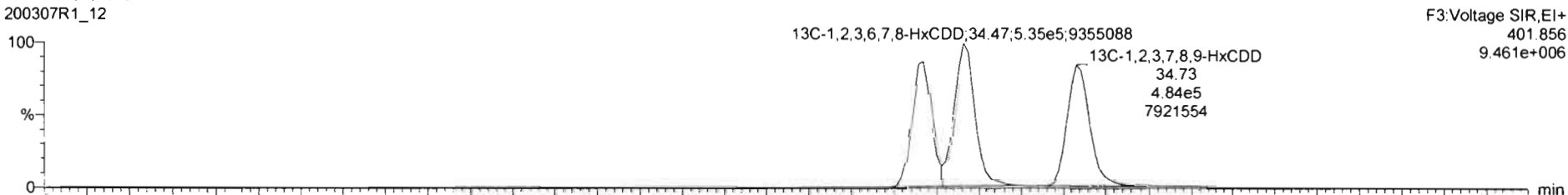


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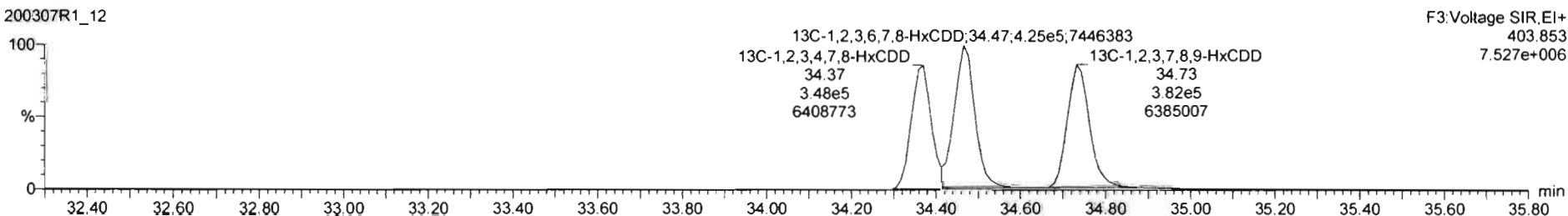


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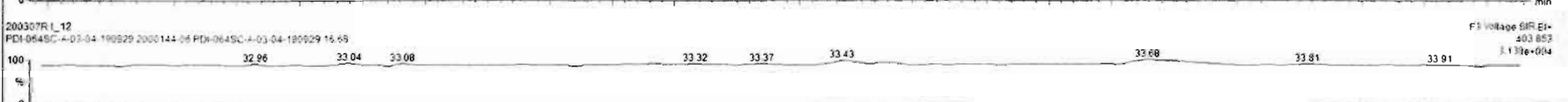
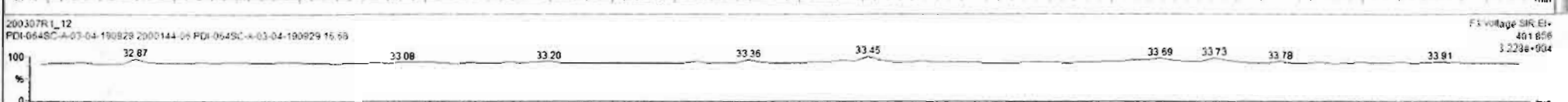
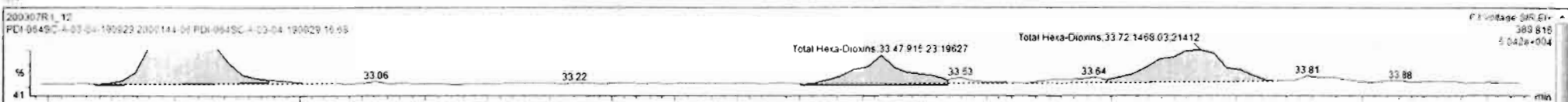


200307R1_12



Name	Resp	RA	n/y	RRF	wt/wt	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.98	10.062			0.437	0.0624	0.437	
40 Total Penta-Dioxins				0.92	10.062			0.690	0.0928	0.975	
41 Total Hexa-Dioxins				0.98	10.062			2.27	0.0829	2.59	
42 Total Hepta-Dioxins				1.01	10.062			2.66	0.200	4.43	
43 Total Tetra-Furans				0.92	10.062			3.09	0.0750	3.68	
44 1st Func. Penta-Furans				0.96	10.062			0.115	0.0308	0.115	
45 Total Penta-Furans				0.98	10.062			0.649	0.0910	0.825	
46 Total Hexa-Furans				1.09	10.062			0.790	0.0596	0.539	
47 Total Hepta-Furans				1.05	10.062			0.264	0.128	0.264	
48 PPK1											

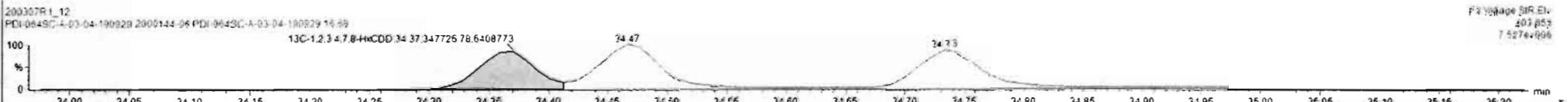
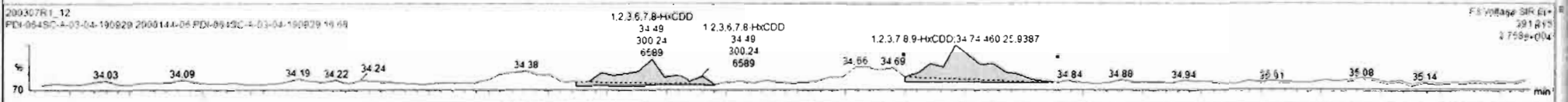
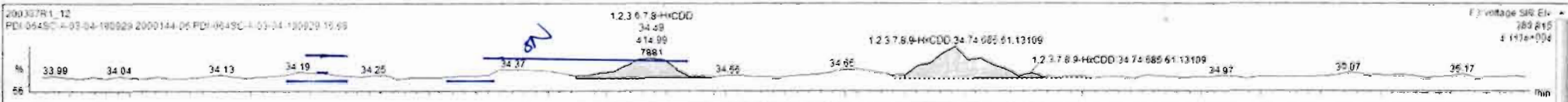
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	32.50	2.576e3	2.497e3	1.19	NO	1.2677	1.2677
2 Total Hexa-Dioxins	33.47	6.152e2	6.532e2	1.32	NO	0.37252	0.37252
3 Total Hexa-Dioxins	33.72	1.468e3	1.252e3	1.17	NO	0.63015	0.63015
4 1,2,3,6,7,8-HxCDD	34.49	4.150e2	2.428e2	1.70	-ES	0.11487	0.00000
5 1,2,2,7,8,9-HxCDD	34.74	7.492e2	3.787e2	1.98	-ES	0.20118	0.00000



200307R1_12 - 2000144-06 PDI-064SC-A-03-04-190929 16 68 - PDI-064SC-A-03-04-190929

#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.98	10.062			0.437		0.0664	0.437
40	Total Penta-Dioxins				0.82	10.062			0.690		0.0928	0.975
41	Total Hexa-Dioxins				0.98	10.062			2.42		0.0829	2.87
42	Total Hepta-Dioxins				1.01	10.062			3.68		0.200	4.43
43	Total Tetra-Furans				0.92	10.062			3.09		0.0750	3.68
44	1st Func. Penta-Furans				0.96	10.062			0.115		0.0308	0.115
45	Total Penta-Furans				0.98	10.062			0.649		0.0910	0.824
46	Total Hexa-Furans				1.04	10.062			0.260		0.0596	0.539
47	Total Hepta-Furans				1.05	10.062			0.264		0.128	0.264
48	DPK1											

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Hexa-Dioxins	32.90	2.576e3	2.497e3	1.19	NO	1.2677	1.2677
2	Total Hexa-Dioxins	33.47	9.152e2	6.930e2	1.32	NO	0.37252	0.37252
3	Total Hexa-Dioxins	33.72	1.468e3	1.252e3	1.17	NO	0.63015	0.63015
4	1,2,3,6,7,8-HxCDD	34.49	4.150e2	3.002e2	1.38	NO	0.15048	0.15048
5	1,2,3,7,8,9-HxCDD	34.74	6.856e2	4.602e2	1.49	YES	0.24452	0.00000



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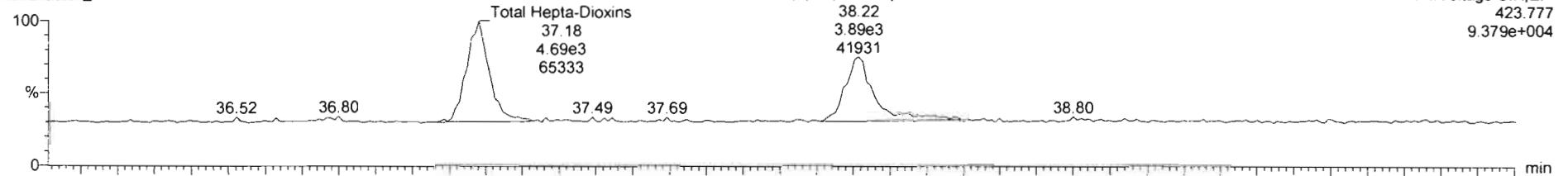
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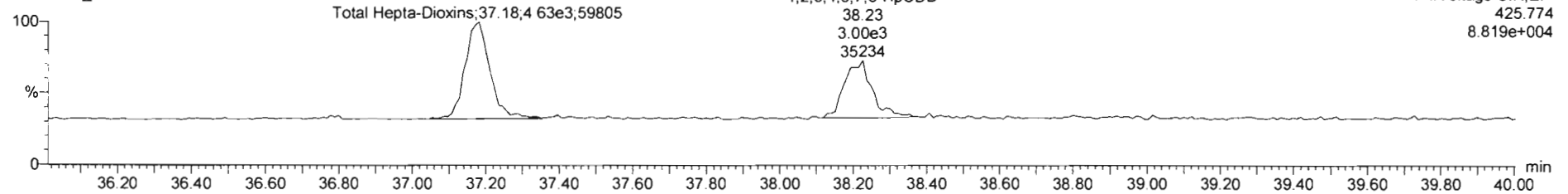
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1,2,3,4,6,7,8-HpCDD

200307R1_12

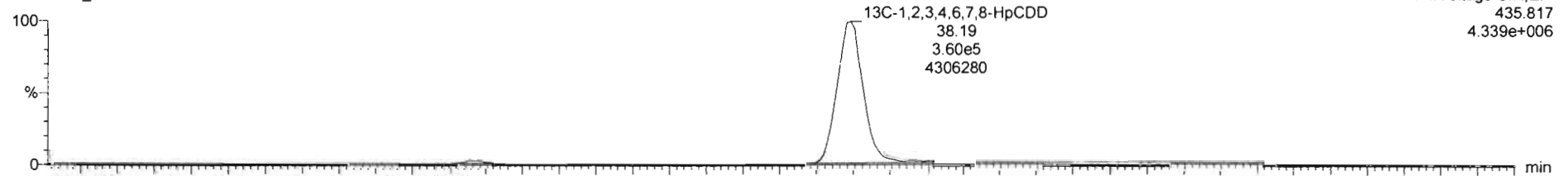


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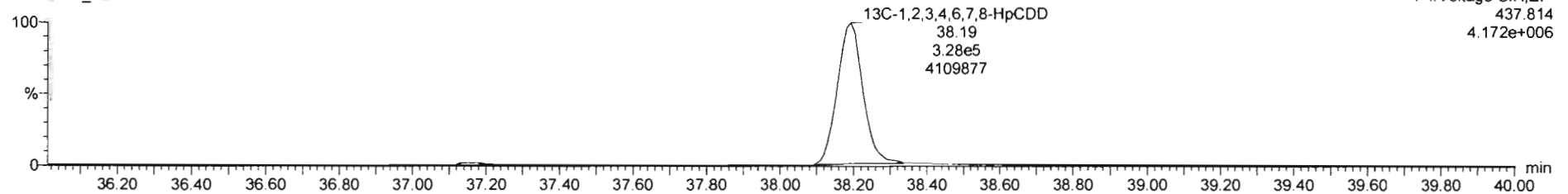


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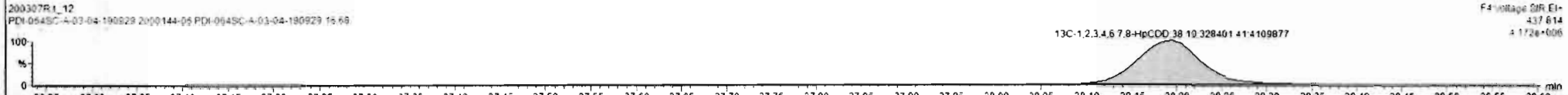
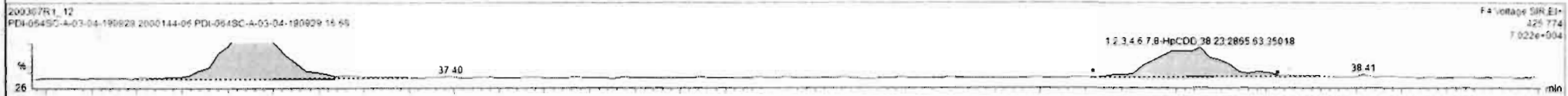


200307R1_12



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.98	10.062			0.437	0.0664	0.437	
40 Total Penta-Dioxins				0.92	10.062			0.690	0.0528	0.975	
41 Total Hexa-Dioxins				0.58	10.062			2.42	0.0629	2.67	
42 Total Hepta-Dioxins				1.01	10.062			2.64	0.200	4.32	
43 Total Tetra-Furans				0.92	10.062			3.09	0.0750	3.66	
44 1st Func. Penta-Furans				0.96	10.062			0.115	0.0306	0.115	
45 Total Penta-Furans				0.96	10.062			0.643	0.0910	0.825	
46 Total Hexa-Furans				1.09	10.062			0.290	0.0596	0.539	
47 Total Hepta-Furans				1.05	10.062			0.264	0.126	0.264	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hepta-Dioxins	37.18	4.572e3	4.616e3	0.96	NO	2.6376	2.6376
2 1,2,3,4,6,7,8-HpCDD	38.22	3.503e3	2.886e3	1.22	YES	1.8787	0.00000



Custom Reporting: Select reports to generate

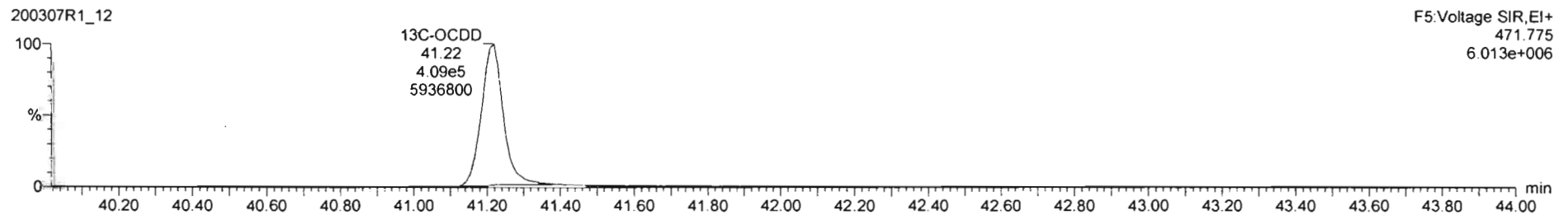
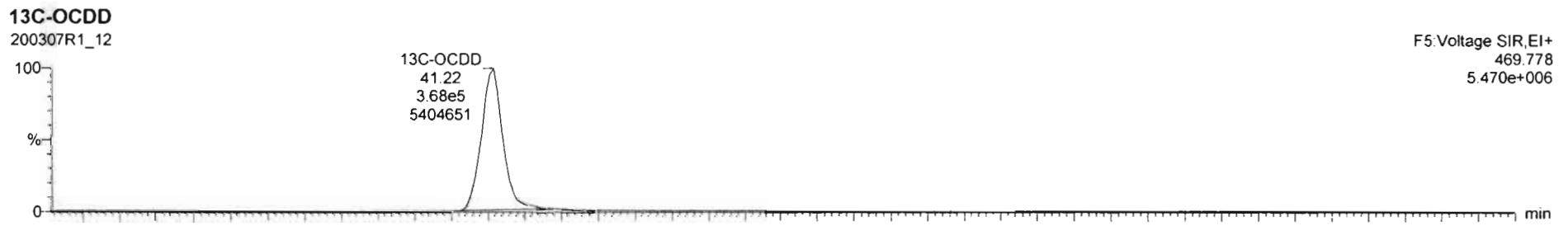
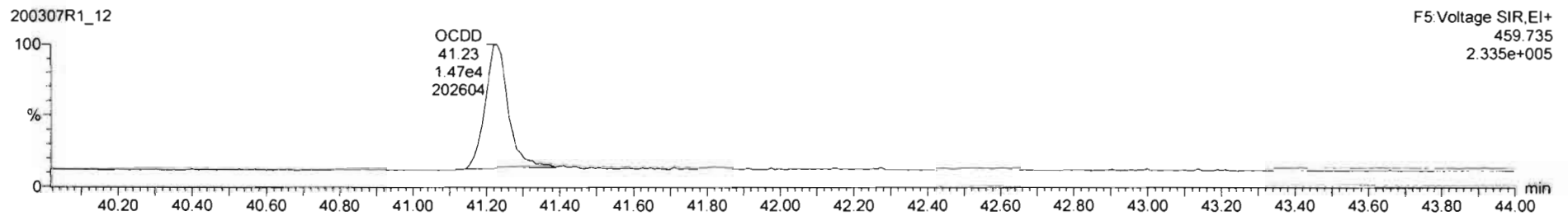
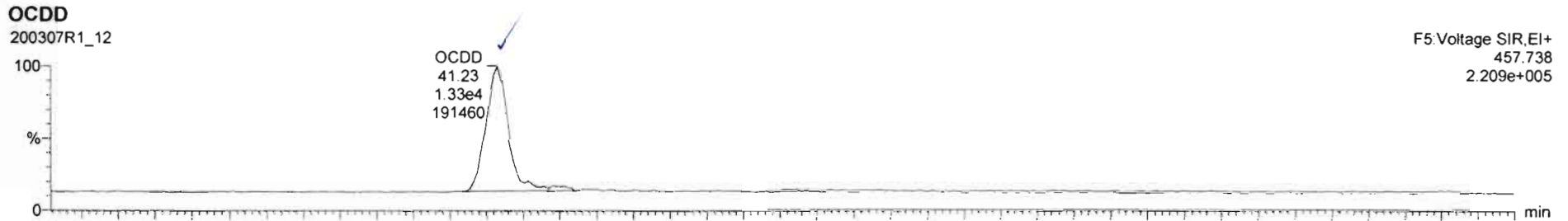
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Name: 200307R1_12, Date: 07-Mar-2020, Time: 18:25:57, ID: 2000144-06 PDI-064SC-A-03-04-190929 16.68, Description: PDI-064SC-A-03-04-190929



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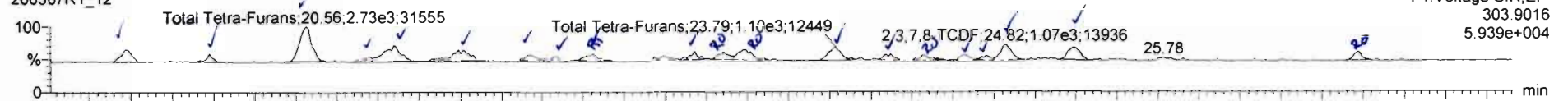
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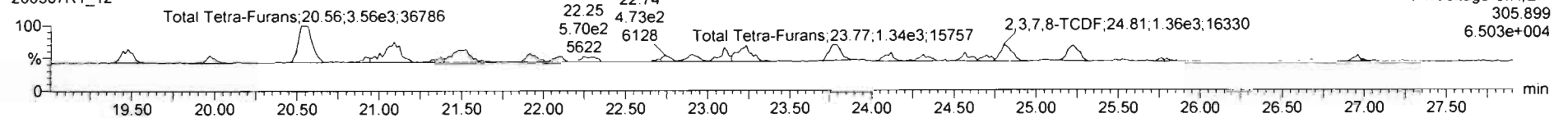
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2,3,7,8-TCDF

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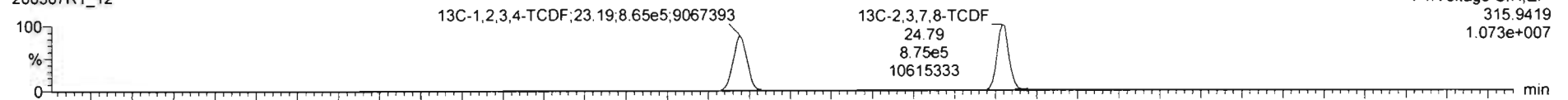


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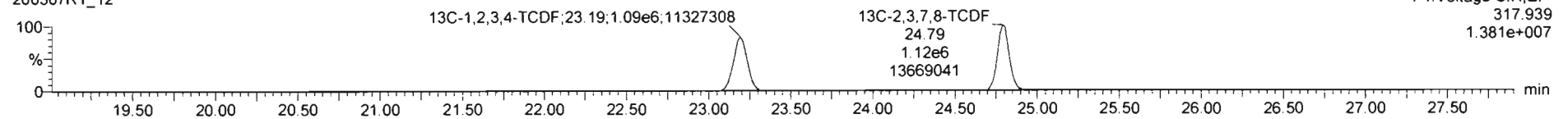


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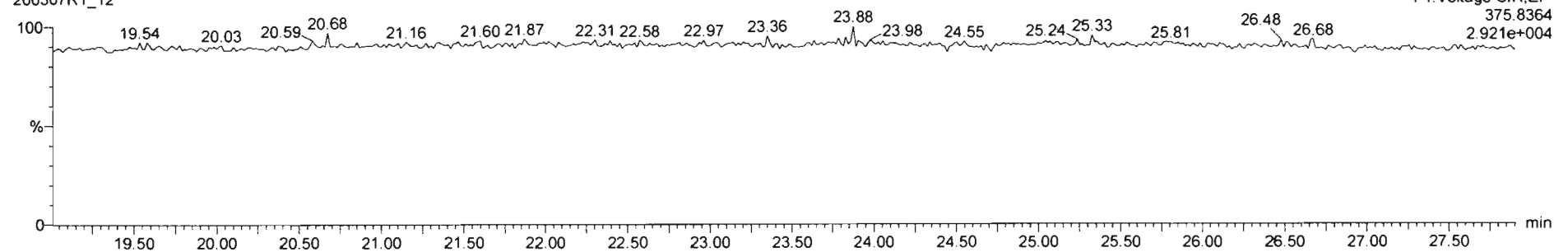


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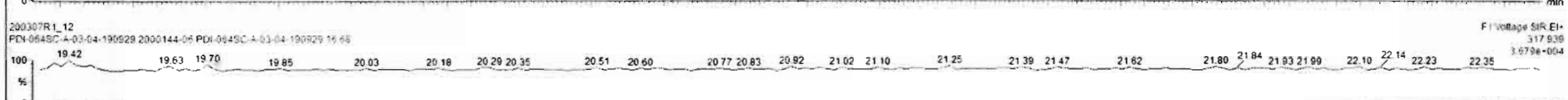
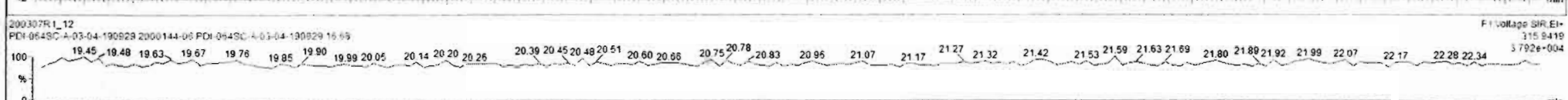
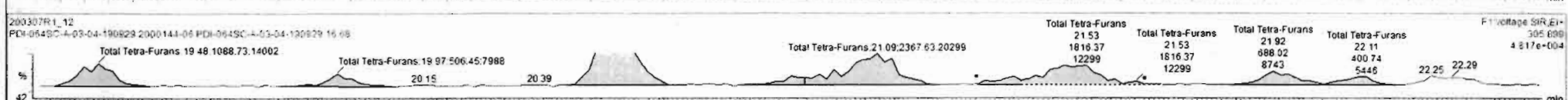
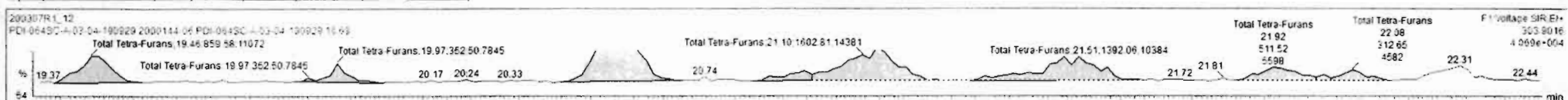
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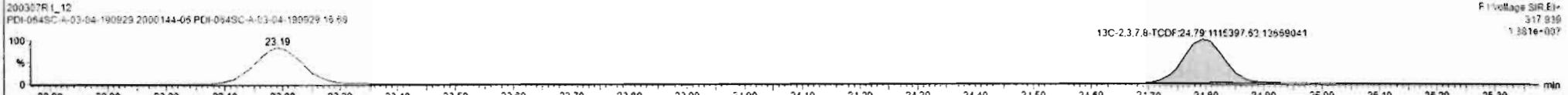
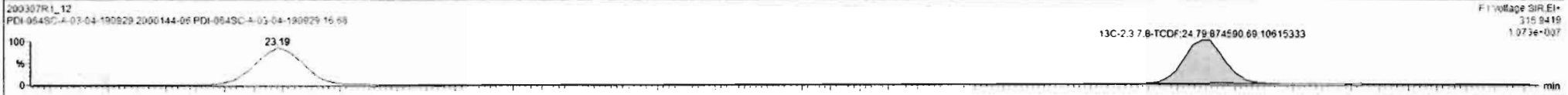
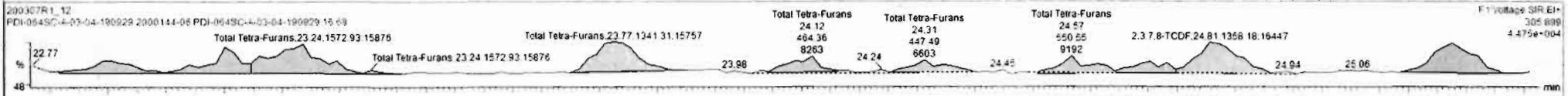
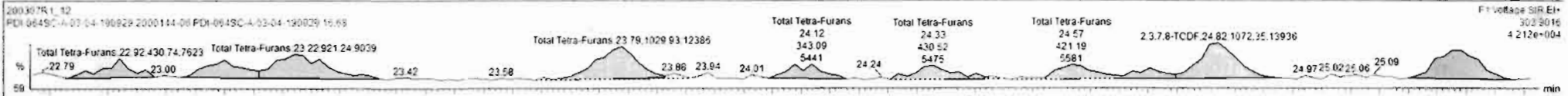
#	Name	Resp	RA	n/y	RRF	wProt	RT	RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.98	10.062			0.437		0.0684	0.437
40	Total Penta-Dioxins				0.92	10.062			0.690		0.0928	0.975
41	Total Hexa-Dioxins				0.98	10.062			2.42		0.0829	2.67
42	Total Hepta-Dioxins				1.01	10.062			2.64		0.200	4.32
43	Total Tetra-Furans				0.82	10.062			3.11		0.0750	3.70
44	1st Func. Penta-Furans				0.96	10.062			0.115		0.0306	0.115
45	Total Penta-Furans				0.96	10.062			0.649		0.0910	0.825
46	Total Hexa-Furans				1.09	10.062			0.290		0.0596	0.539
47	Total Hepta-Furans				1.05	10.062			0.264		0.128	0.264
48	PK1											

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	Total Tetra-Furans	19.46	6.59E+2	1.089E+3	0.79	NO	0.21260	0.21260
2	Total Tetra-Furans	19.97	3.525E+2	5.084E+2	0.70	NO	0.093728	0.093728
3	Total Tetra-Furans	20.56	2.775E+3	3.564E+3	0.77	NO	0.68738	0.68738
4	Total Tetra-Furans	20.95	2.530E+2	2.986E+2	0.85	NO	0.066216	0.066216
5	Total Tetra-Furans	21.10	1.602E+3	2.368E+3	0.68	NO	0.43325	0.43325
6	Total Tetra-Furans	21.51	1.382E+3	1.916E+3	0.77	NO	0.35010	0.35010
7	Total Tetra-Furans	21.92	5.115E+2	8.880E+2	0.74	NO	0.13069	0.13069
8	Total Tetra-Furans	22.08	3.126E+2	4.087E+2	0.78	NO	0.077844	0.077844
9	Total Tetra-Furans	22.92	4.307E+2	6.072E+2	0.71	NO	0.11326	0.11326
10	Total Tetra-Furans	23.10	4.844E+2	8.036E+2	0.62	YES	0.12401	0.00000
11	Total Tetra-Furans	23.22	9.212E+2	1.573E+3	0.59	YES	0.20106	0.00000



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.98	10.062			0.437		0.0684	0.437
40 Total Penta-Dioxins				0.92	10.062			0.690		0.0928	0.975
41 Total Hexa-Dioxins				0.98	10.062			2.42		0.0829	2.67
42 Total Hepta-Dioxins				1.01	10.062			2.64		0.200	4.32
43 Total Tetra-Furans				0.82	10.062			3.19		0.0750	3.69
44 1st Func. Penta-Furans				0.96	10.062			0.115		0.0206	0.115
45 Total Penta-Furans				0.96	10.062			0.849		0.0910	0.825
46 Total Hexa-Furans				1.09	10.062			0.290		0.0596	0.539
47 Total Hepta-Furans				1.05	10.062			0.264		0.12E	0.264

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
8 Total Tetra-Furans	22.06	3.126e2	4.007e2	0.76	NO	0.077844	0.077844
9 Total Tetra-Furans	22.52	4.307e2	6.072e2	0.71	NO	0.11326	0.11326
10 Total Tetra-Furans	23.10	4.944e2	8.036e2	0.62	YES	0.12401	0.00000
11 Total Tetra-Furans	23.22	9.212e2	1.573e3	0.59	YES	0.23106	0.00000
12 Total Tetra-Furans	23.79	1.030e3	1.341e3	0.77	NO	0.25875	0.25875
13 Total Tetra-Furans	24.12	3.431e2	4.844e2	0.74	NO	0.086108	0.086108
14 Total Tetra-Furans	24.33	4.305e2	4.475e2	0.96	YES	0.086429	0.00000
15 Total Tetra-Furans	24.57	4.212e2	5.066e2	0.77	NO	0.10604	0.10604
16 Total Tetra-Furans	24.70	2.512e2	3.737e2	0.67	NO	0.068207	0.068207
17 2,3,7,8-TCDF	24.82	1.072e3	1.368e3	0.79	NO	0.26522	0.26522
18 Total Tetra-Furans	25.23	9.776e2	1.203e3	0.76	NO	0.24668	0.24668



Custom Reporting: Select reports to generate

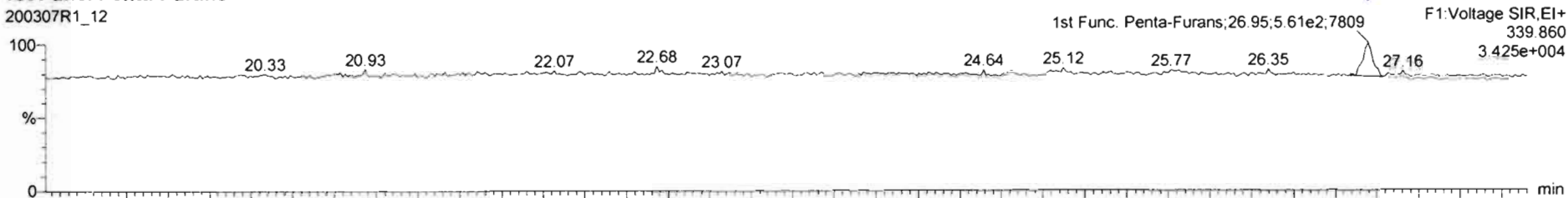
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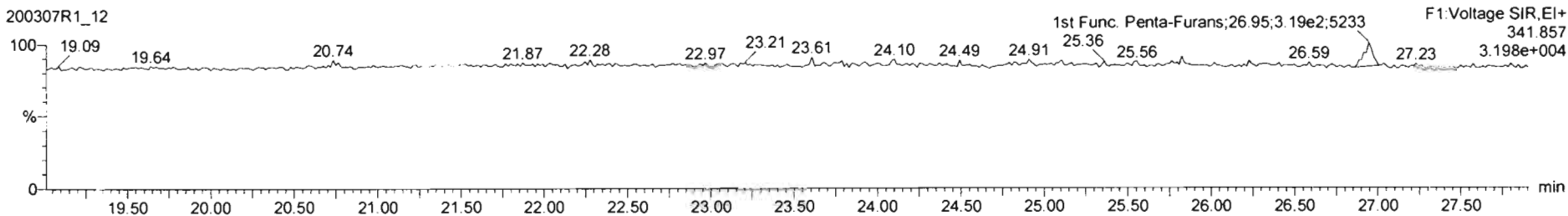
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1st Func. Penta-Furans

200307R1_12

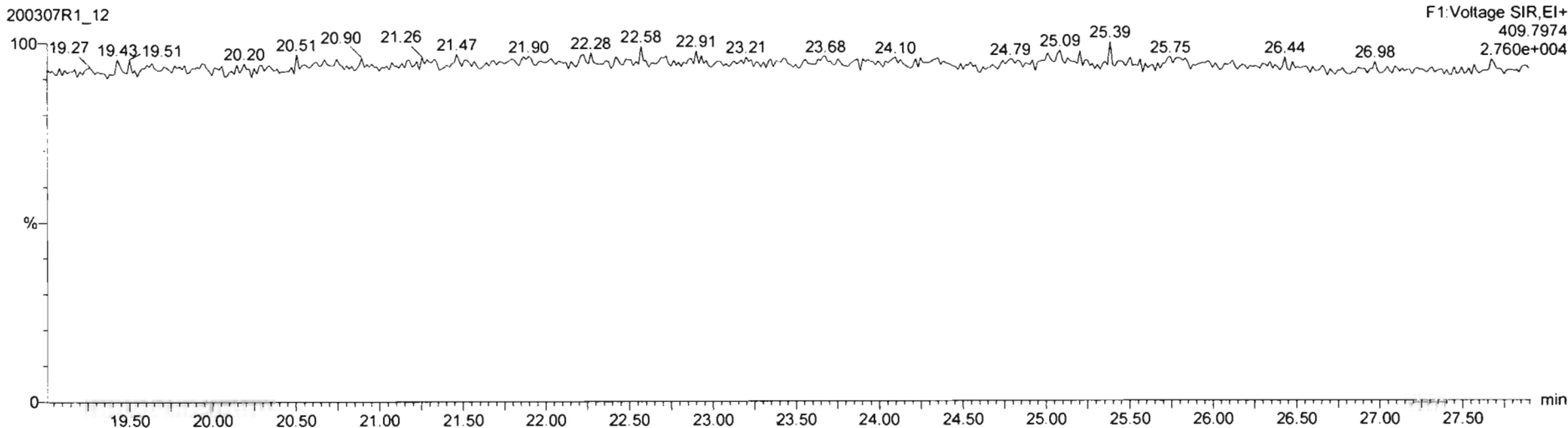


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DPE6

200307R1_12



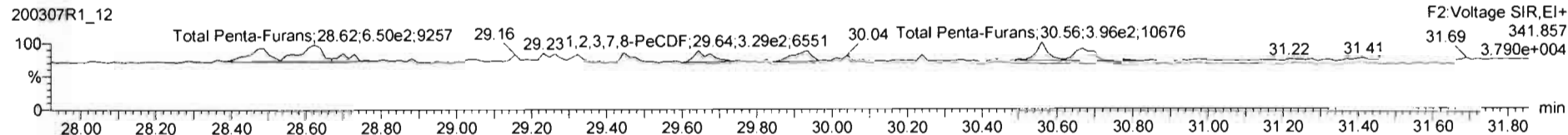
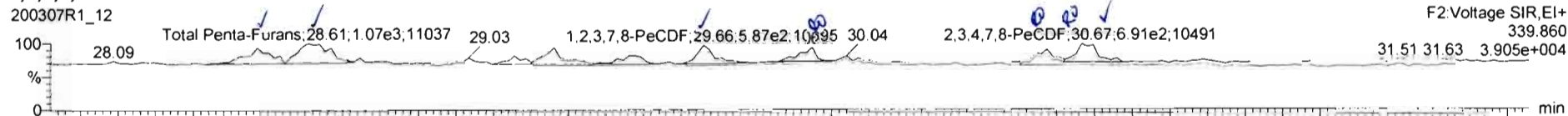
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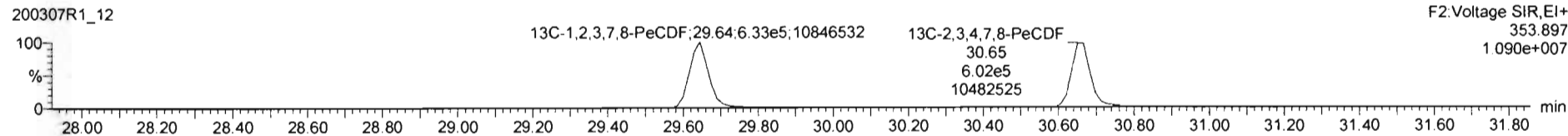
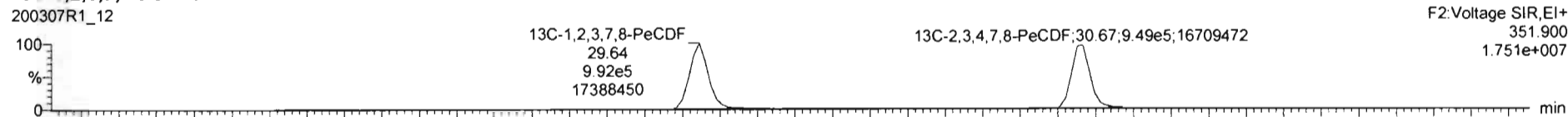
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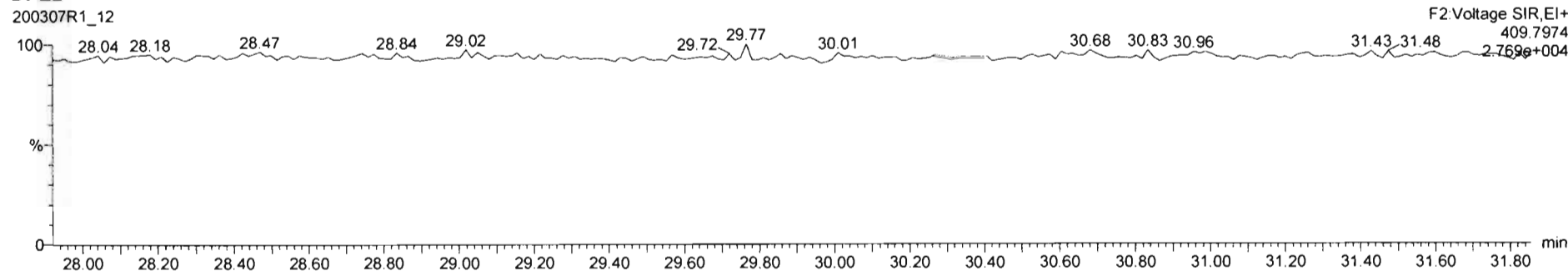
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13C-1,2,3,7,8-PeCDF

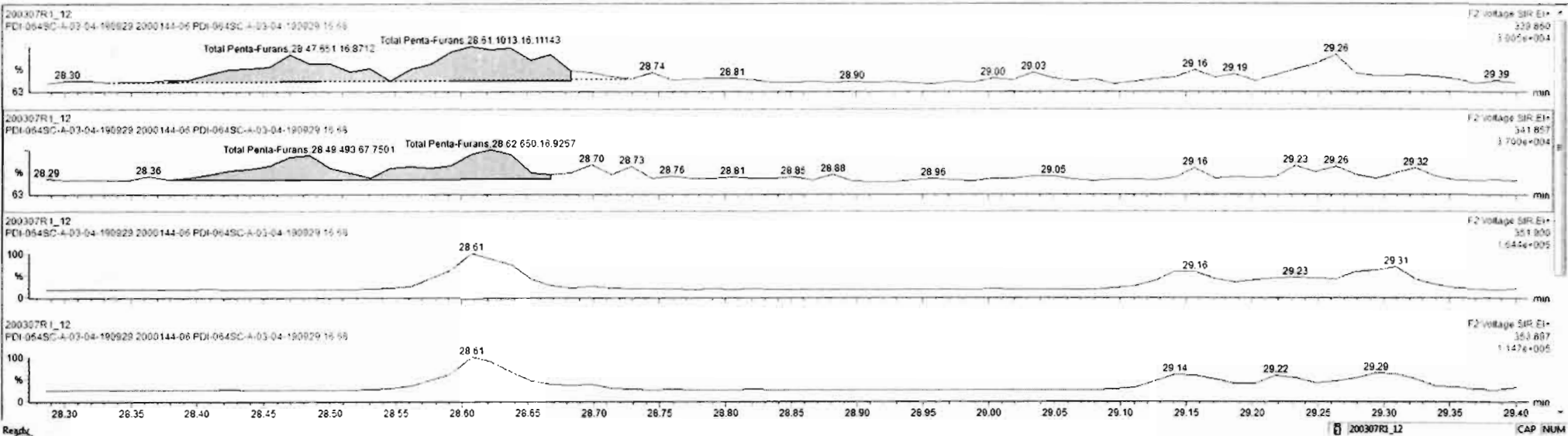


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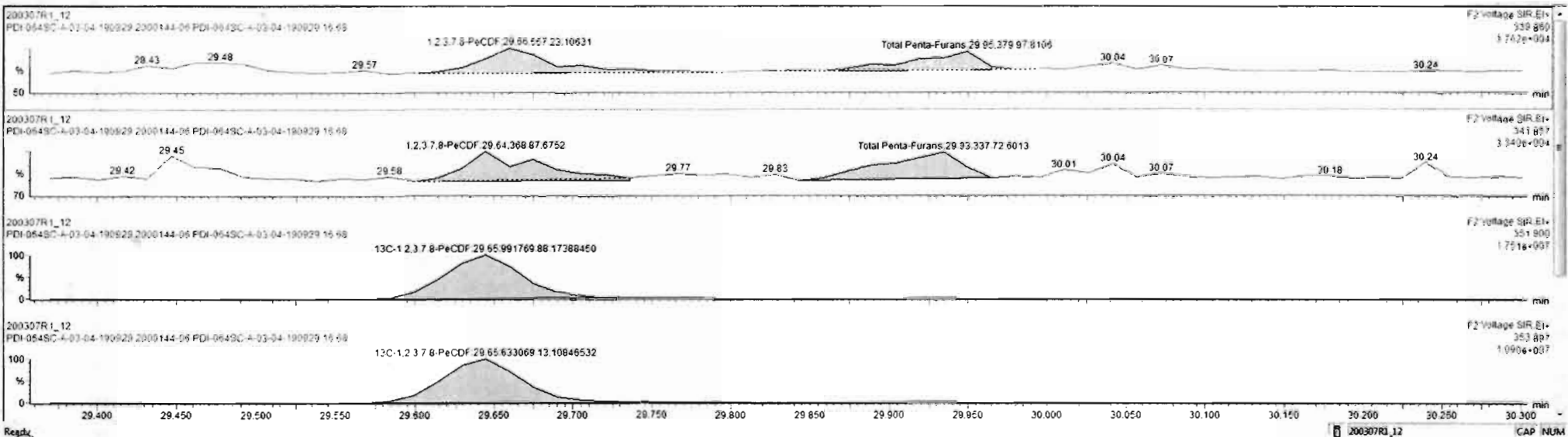
Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.98	10.062			0.437		0.0664	0.437
40 Total Penta-Dioxins				0.92	10.062			0.690		0.0928	0.975
41 Total Hexa-Dioxins				0.98	10.062			2.42		0.0829	2.67
42 Total Hepta-Dioxins				1.01	10.052			2.64		0.200	4.32
43 Total Tetra-Furans				0.92	10.062			3.19		0.0750	3.69
44 1st Func. Penta-Furans				0.96	10.062			0.115		0.0308	0.115
45 Total Penta-Furans				0.96	10.062			0.838		0.0910	0.815
46 Total Hexa-Furans				1.05	10.052			0.290		0.0596	0.539
47 Total Hepta-Furans				1.05	10.062			0.264		0.128	0.264

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Penta-Furans	28.47	6.512e2	4.937e2	1.32	NO	0.14935	0.14935
2 Total Penta-Furans	28.61	1.013e3	6.502e2	1.55	NO	0.21699	0.21699
3 1,2,3,7,8-PeCDF	29.66	5.966e2	2.294e2	1.78	NO	0.11682	0.11682
4 Total Penta-Furans	29.95	4.059e2	3.377e2	1.20	ES	0.087122	0.00000
5 Total Penta-Furans	30.58	4.165e2	3.955e2	1.05	ES	0.089394	0.00000
6 2,3,4,7,8-PeCDF	30.67	6.899e2	5.232e2	1.32	NO	0.15490	0.15490



Name	Resp	RA	ny	BRF	wthol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.98	10.062			0.437		0.0684	0.437
40 Total Penta-Dioxins				0.92	10.062			0.690		0.0928	0.675
41 Total Hexa-Dioxins				0.98	10.062			2.42		0.0629	2.67
42 Total Hepta-Dioxins				1.01	10.062			2.64		0.200	4.32
43 Total Tetra-Furans				0.92	10.062			3.19		0.0750	3.69
44 1st Func. Penta-Furans				0.96	10.062			0.115		0.0306	0.115
45 Total Penta-Furans				0.96	10.062			0.839		0.0910	0.810
46 Total Hexa-Furans				1.05	10.062			0.250		0.0596	0.539
47 Total Hepta-Furans				1.05	10.062			0.264		0.126	0.264

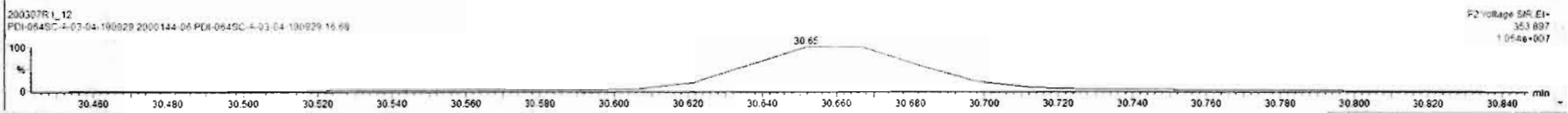
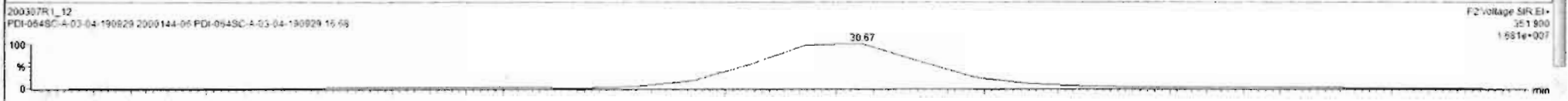
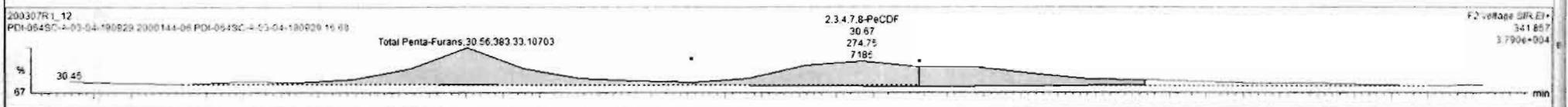
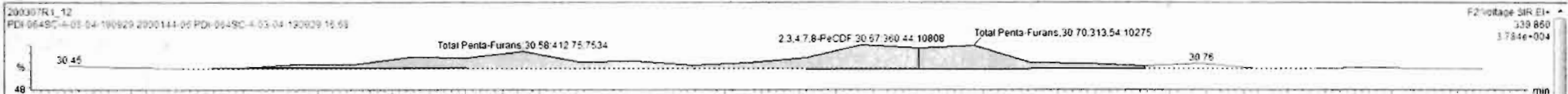
Name	RT	m1 Reso	m2 Reso	RA	ny	EMPC	Conc.
1 Total Penta-Furans	28.47	6.512e2	4.937e2	1.32	NO	0.14935	0.14935
2 Total Penta-Furans	28.61	1.013e3	6.502e2	1.56	NO	0.21699	0.21699
3 1,2,3,7,8-PeCDF	29.66	5.572e2	3.699e2	1.51	NO	0.11809	0.11809
4 Total Penta-Furans	29.95	3.800e2	2.377e2	1.12	YES	0.081549	0.08000
5 Total Penta-Furans	30.58	4.165e2	3.655e2	1.05	YES	0.089394	0.08000
6 2,3,4,7,8-PeCDF	30.67	6.909e2	5.222e2	1.32	NO	0.15490	0.15490



200307R1_12 - 2000144-06 PDI-064SC-A-03-04-190929 16:68 - PDI-064SC-A-03-04-190929

Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.96	10.062						
46 Total Hexa-Furans				1.09	10.062						
47 Total Hepta-Furans				1.05	10.062						
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											
54 DPF2											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.47	6.512e2	4.937e2	1.32	NO		
2 Total Penta-Furans	28.61	1.013e3	6.502e2	1.56	NO		
3 1,2,3,7,8-PeCDF	29.66	5.572e2	3.689e2	1.51	NO		
4 Total Penta-Furans	29.95	3.800e2	3.377e2	1.13	YES		
5 Total Penta-Furans	30.56	4.128e2	3.832e2	1.08	YES		
6 2,3,4,7,8-PeCDF	30.67	3.694e2	2.745e2	1.31	YES		
7 Total Penta-Furans	30.70	3.135e2	2.150e2	1.48	NO		

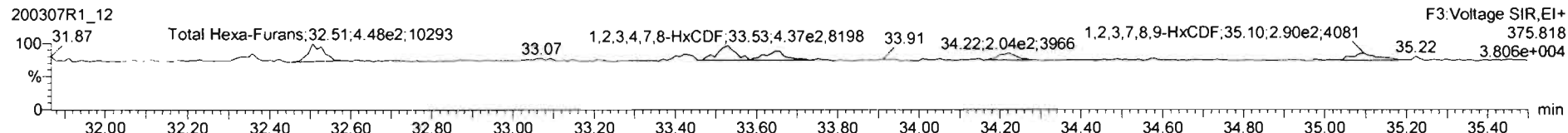
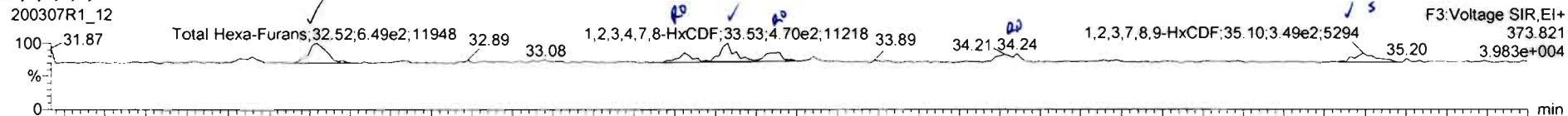


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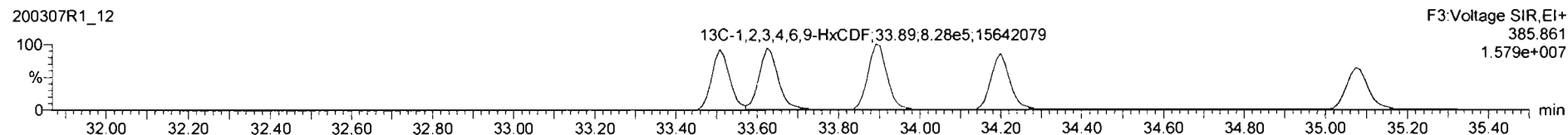
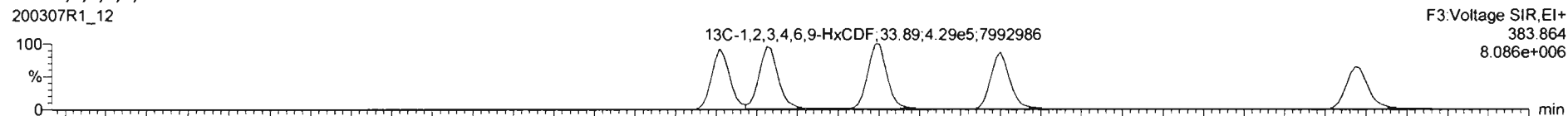
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Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

Name: 200307R1_12, Date: 07-Mar-2020, Time: 18:25:57, ID: 2000144-06 PDI-064SC-A-03-04-190929 16.68, Description: PDI-064SC-A-03-04-190929

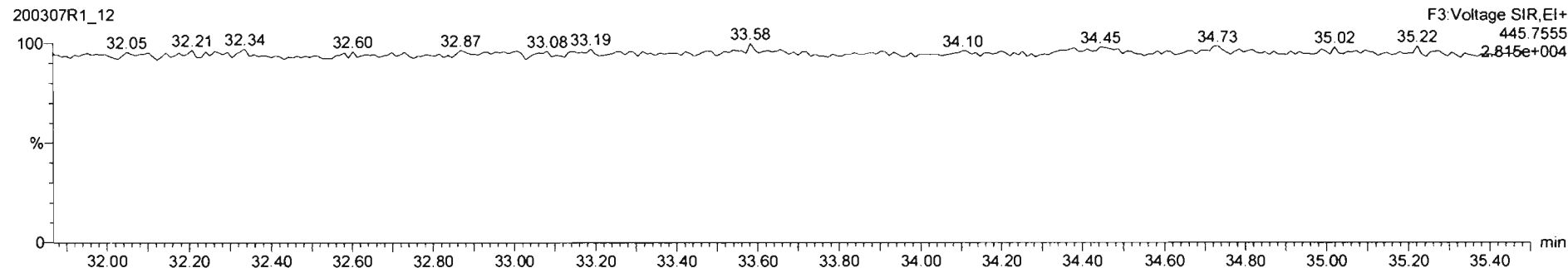
1,2,3,4,7,8-HxCDF



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

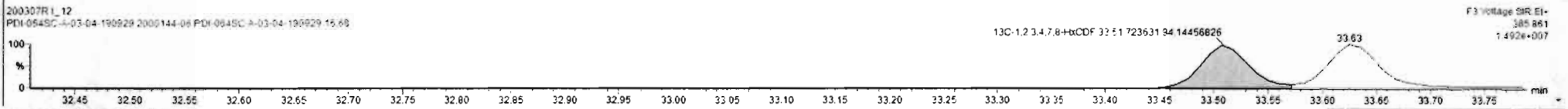
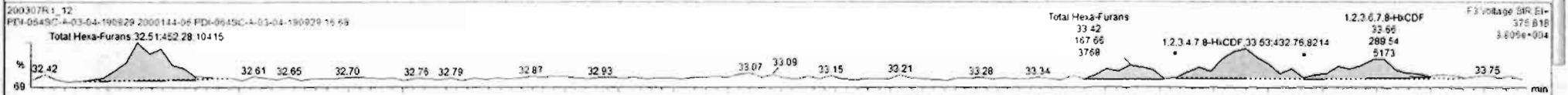
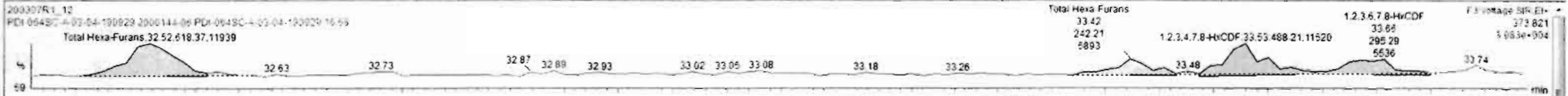


DPE3



Name	Resp	RA	rdy	RRF	wtdVol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.96	10.062			0.553	0.0910	0.799	
46 Total Hexa-Furans				1.09	10.062			0.473	0.0596	0.624	
47 Total Hepta-Furans				1.05	10.062			0.264	0.126	0.264	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											
54 DPF2											

Name	RT	m1 Resp	m2 Resp	RA	rdy	EMPC	Conc.
1 Total Hexa-Furans	32.52	6.184e2	4.523e2	1.37	NO	0.18051	0.18051
2 Total Hexa-Furans	32.42	2.422e2	1.677e2	1.44	YES	0.063321	0.00000
3 1,2,3,4,7,8-HxCDF	33.52	4.882e2	4.328e2	1.13	NO	0.16092	0.16092
4 1,2,3,6,7,8-HxCDF	33.66	2.953e2	2.895e2	1.02	YES	0.087270	0.00000
5 1,2,3,7,8,9-HxCDF	35.10	3.491e2	2.897e2	1.21	NO	0.12150	0.12150

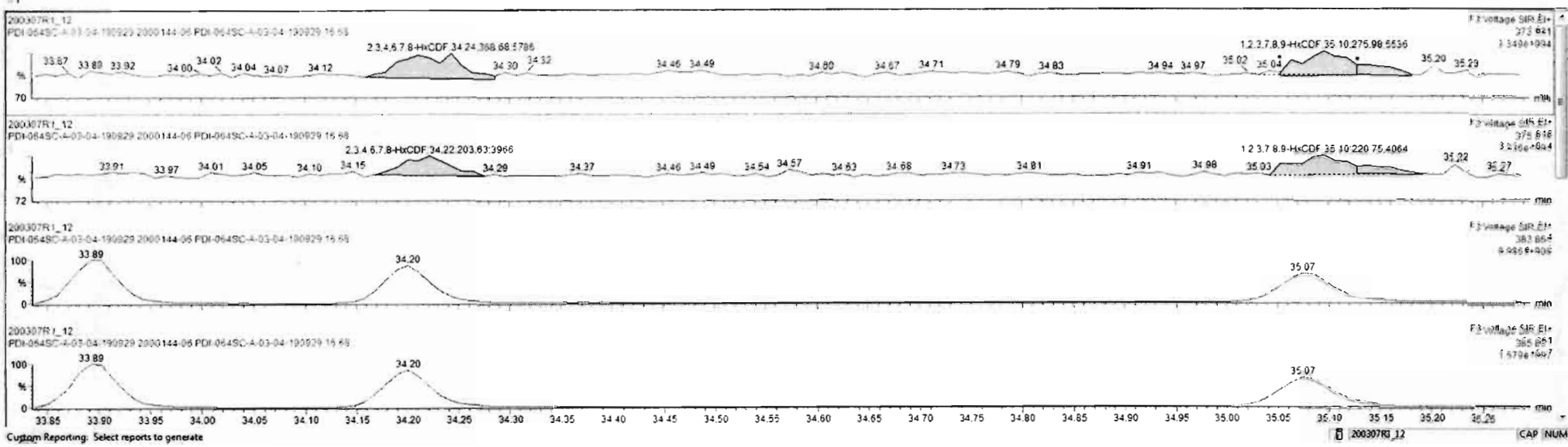


Custom Reporting: Select reports to generate

200307R1_12 2000144-06 PDI-064SC-A-03-04-190929 16 68 PDI-064SC-A-03-04-190929

Name	Resp	RA	rvj	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.96	10.062			0.553	0.0510	0.759	
46 Total Hexa-Furans				1.09	10.062			0.470	0.0566	0.697	
47 Total Hepta-Furans				1.05	10.062			0.264	0.126	0.264	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											
54 DPF2											

Name	RT	m1 Resp	m2 Resp	RA	rvj	EMPC	Conc.
1 Total Hexa-Furans	32.52	6.184e2	4.523e2	1.37	NO	0.18051	0.18051
2 Total Hexa-Furans	33.42	2.422e2	1.677e2	1.44	YES	0.062321	0.00000
3 1,2,3,4,7,8-HxCDF	33.53	4.822e2	4.328e2	1.13	NO	0.16092	0.16092
4 1,2,3,6,7,8-HxCDF	33.66	2.952e2	2.695e2	1.02	YES	0.087270	0.00000
5 2,3,6,7,8-HxCDF	34.24	3.687e2	2.036e2	1.81	YES	0.076713	0.00000
6 1,2,3,7,8,9-HxCDF	35.10	2.780e2	2.207e2	1.25	NO	0.10225	0.10225
7 Total Hexa-Furans	35.13	9.002e1	6.886e1	1.30	NO	0.026451	0.026451



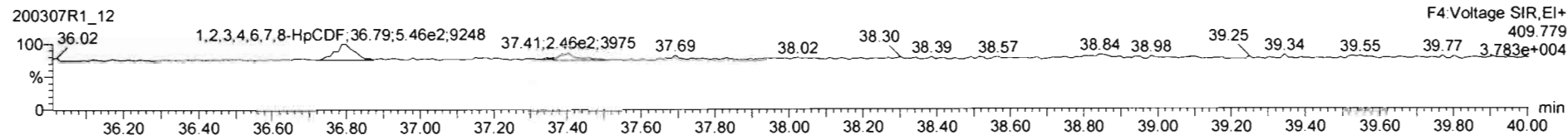
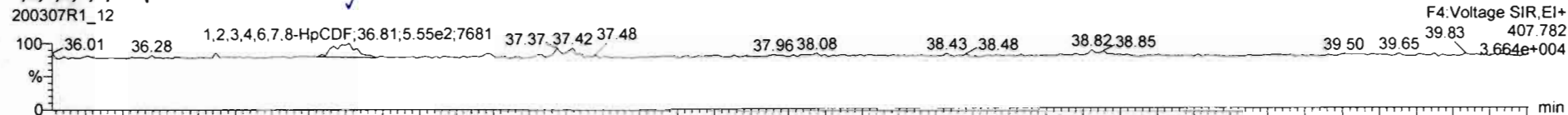
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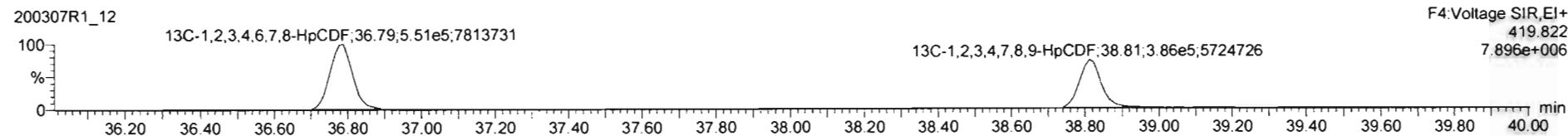
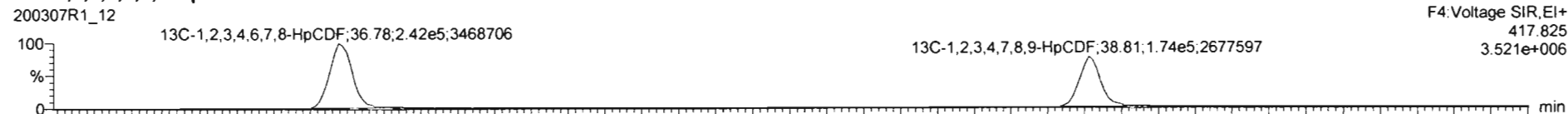
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Name: 200307R1_12, Date: 07-Mar-2020, Time: 18:25:57, ID: 2000144-06 PDI-064SC-A-03-04-190929 16.68, Description: PDI-064SC-A-03-04-190929

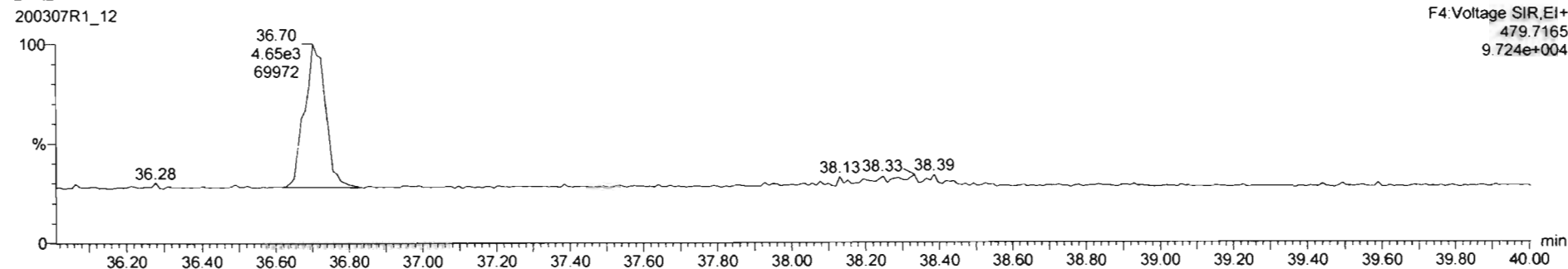
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13C-1,2,3,4,6,7,8-HpCDF

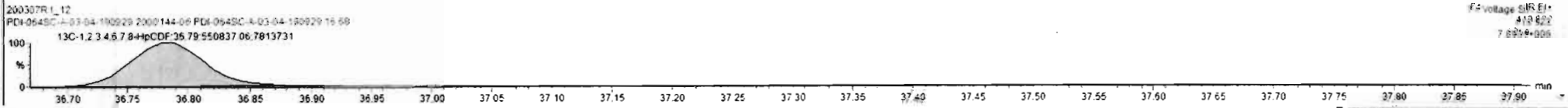
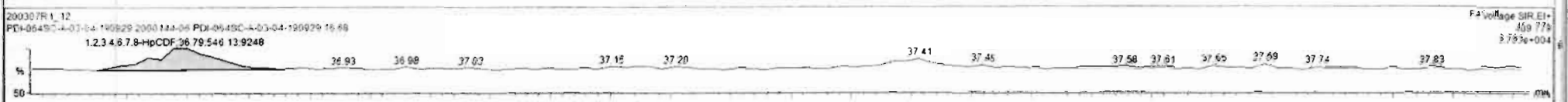
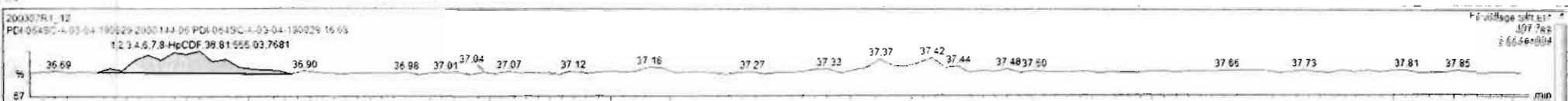


DPE4



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.96	10.652			0.553	0.0910	0.799	
46 Total Hexa-Furans				1.09	10.062			0.470	0.0596	0.697	
47 Total Hepta-Furans				1.05	10.062			0.264	0.128	0.264	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											
54 DPE2											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 1.2.3.4.6.7.8-HpCDF	36.81	5.550e2	5.461e2	1.02	NO	0.26350	0.26350

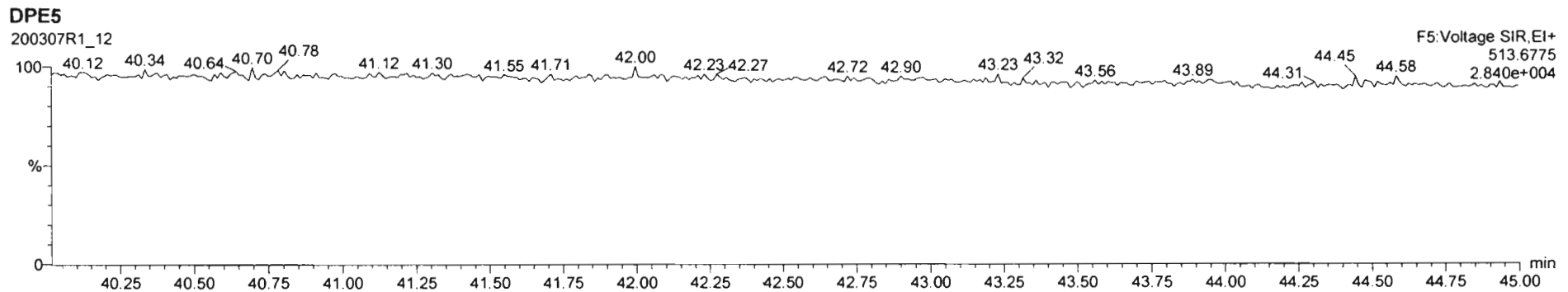
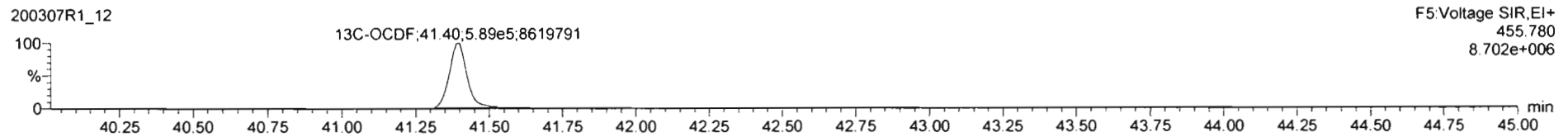
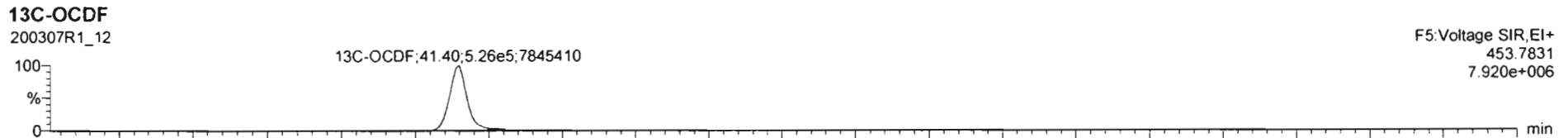
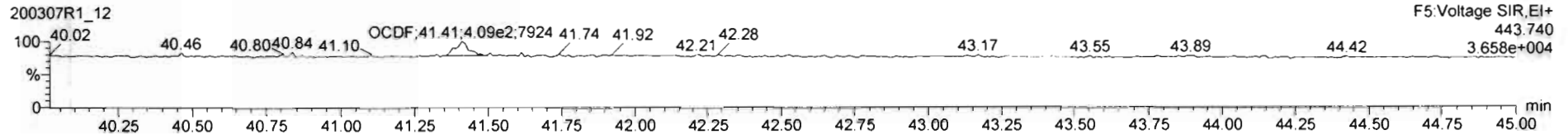
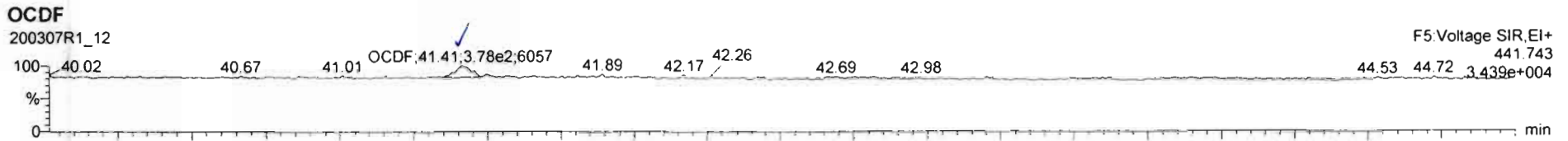


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Name: 200307R1_12, Date: 07-Mar-2020, Time: 18:25:57, ID: 2000144-06 PDI-064SC-A-03-04-190929 16.68, Description: PDI-064SC-A-03-04-190929



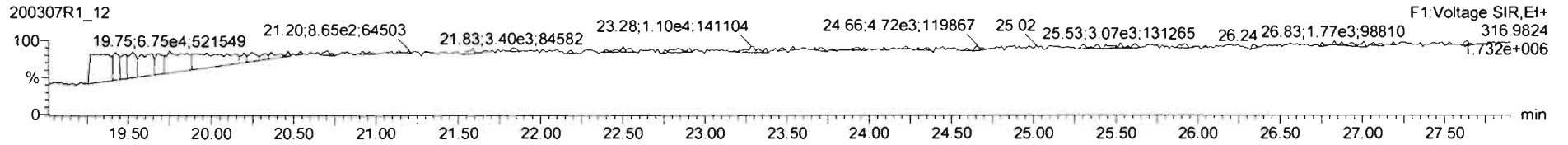
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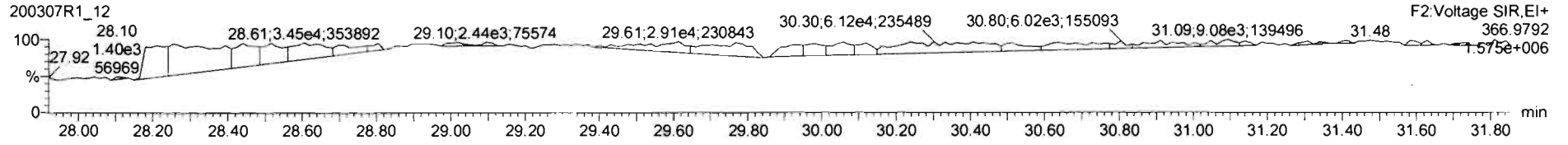
Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

Name: 200307R1_12, Date: 07-Mar-2020, Time: 18:25:57, ID: 2000144-06 PDI-064SC-A-03-04-190929 16.68, Description: PDI-064SC-A-03-04-190929

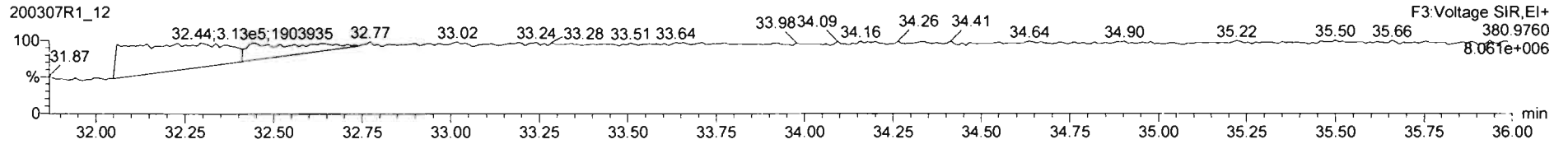
PFK1



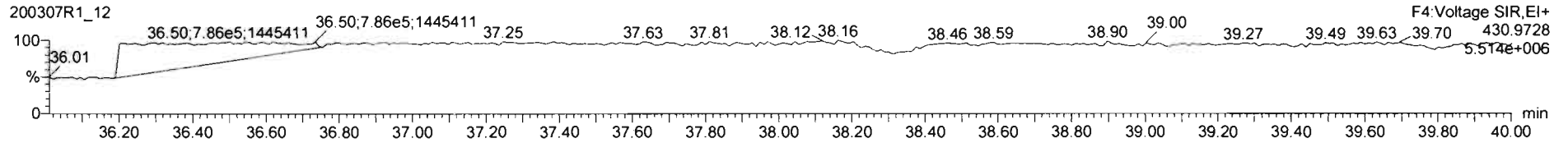
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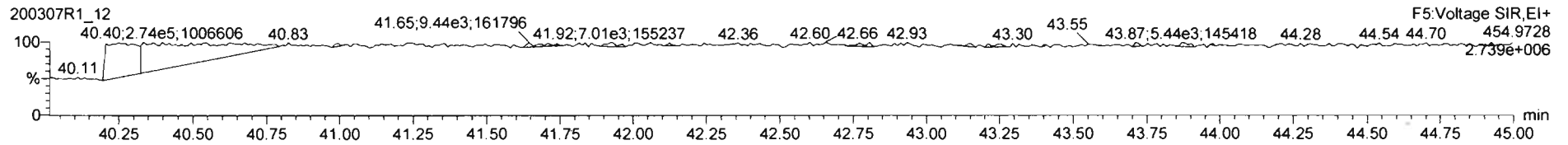
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200307R1\200307R1-13.qld

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Printed: Tuesday, March 24, 2020 9:41:41 AM Pacific Daylight Time

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C 10/24/2020

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

Name: 200307R1_13, Date: 07-Mar-2020, Time: 19:13:23, ID: 2000144-07 PDI-079SC-A-08-09-191014 15.43, Description: PDI-079SC-A-08-09-191014, Task: ST200307R1_1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	5.70e3	0.61	YES	0.983	10.036	25.80	1.001	0.78722		0.0672	0.687
2	1,2,3,7,8-PeCDD	3.74e3	0.61	NO	0.921	10.036	30.99	1.000	0.65435		0.0716	0.654
3	1,2,3,4,7,8-HxCDD	2.54e3	1.18	NO	1.13	10.036	34.37	1.000	0.47613		0.121	0.476
4	1,2,3,6,7,8-HxCDD	1.23e4	1.25	NO	0.984	10.036	34.48	1.000	2.1984		0.119	2.20
5	1,2,3,7,8,9-HxCDD	6.32e3	1.19	NO	0.967	10.036	34.75	1.001	1.2369		0.136	1.24
6	1,2,3,4,6,7,8-HpCDD	2.82e5	1.03	NO	1.01	10.036	38.21	1.000	63.003		0.403	63.0
7	OCDD	3.36e6	0.89	NO	1.05	10.036	41.24	1.000	885.48		0.360	885
8	2,3,7,8-TCDF	4.56e5	0.77	NO	0.915	10.036	24.84	1.001	48.220	(34.7)	0.0952	48.2
9	1,2,3,7,8-PeCDF	5.65e5	1.54	NO	0.959	10.036	29.65	1.001	65.656		0.150	65.7
10	2,3,4,7,8-PeCDF	1.81e5	1.58	NO	1.00	10.036	30.67	1.000	20.453		0.139	20.5
11	1,2,3,4,7,8-HxCDF	6.27e5	1.22	NO	1.04	10.036	33.52	1.000	88.971		0.118	89.0
12	1,2,3,6,7,8-HxCDF	1.80e5	1.25	NO	1.01	10.036	33.64	1.000	24.279		0.124	24.3
13	2,3,4,6,7,8-HxCDF	4.04e4	1.23	NO	1.09	10.036	34.21	1.001	5.6575		0.129	5.66
14	1,2,3,7,8,9-HxCDF	2.84e4	1.21	NO	1.03	10.036	35.12	1.001	4.8070		0.178	4.81
15	1,2,3,4,6,7,8-HpCDF	2.22e5	1.01	NO	1.05	10.036	36.80	1.001	42.835		0.187	42.8
16	1,2,3,4,7,8,9-HpCDF	7.49e4	1.03	NO	1.21	10.036	38.84	1.001	17.100		0.209	17.1
17	OCDF	4.41e5	0.87	NO	0.947	10.036	41.42	1.000	105.84		0.188	106
18	13C-2,3,7,8-TCDD	1.47e6	0.79	NO	1.18	10.036	25.78	1.029	193.97	97.3	0.192	
19	13C-1,2,3,7,8-PeCDD	1.24e6	0.63	NO	0.864	10.036	30.97	1.236	223.60	112	0.268	
20	13C-1,2,3,4,7,8-HxCDD	9.40e5	1.34	NO	0.754	10.036	34.36	1.014	177.22	88.9	0.374	
21	13C-1,2,3,6,7,8-HxCDD	1.13e6	1.23	NO	0.925	10.036	34.47	1.017	173.94	87.3	0.305	
22	13C-1,2,3,7,8,9-HxCDD	1.05e6	1.25	NO	0.829	10.036	34.73	1.025	180.35	90.5	0.340	
23	13C-1,2,3,4,6,7,8-HpCDD	8.85e5	1.04	NO	0.598	10.036	38.19	1.127	210.27	106	0.383	
24	13C-OCDD	1.44e6	0.89	NO	0.571	10.036	41.23	1.217	357.62	89.7	0.349	
25	13C-2,3,7,8-TCDF	2.06e6	0.78	NO	1.09	10.036	24.81	0.990	192.33	96.5	0.239	
26	13C-1,2,3,7,8-PeCDF	1.79e6	1.58	NO	0.876	10.036	29.63	1.182	207.49	104	0.310	
27	13C-2,3,4,7,8-PeCDF	1.76e6	1.58	NO	0.844	10.036	30.65	1.223	212.16	106	0.322	
28	13C-1,2,3,4,7,8-HxCDF	1.35e6	0.52	NO	1.00	10.036	33.51	0.989	192.22	96.5	0.347	
29	13C-1,2,3,6,7,8-HxCDF	1.46e6	0.52	NO	1.12	10.036	33.63	0.992	185.91	93.3	0.311	
30	13C-2,3,4,6,7,8-HxCDF	1.30e6	0.51	NO	1.04	10.036	34.19	1.009	178.90	89.8	0.335	

Dataset: U:\VG12.PRO\Results\200307R1\200307R1-13.qld

Last Altered: Tuesday, March 24, 2020 9:39:09 AM Pacific Daylight Time

Printed: Tuesday, March 24, 2020 9:41:41 AM Pacific Daylight Time

Name: 200307R1_13, Date: 07-Mar-2020, Time: 19:13:23, ID: 2000144-07 PDI-079SC-A-08-09-191014 15.43, Description: PDI-079SC-A-08-09-191014, Task: ST200307R1_1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
31	13C-1,2,3,7,8,9-HxCDF	1.15e6	0.53	NO	0.873	10.036	35.07	1.035	186.43	93.6	0.398	
32	13C-1,2,3,4,6,7,8-HpCDF	9.85e5	0.44	NO	0.771	10.036	36.78	1.085	181.69	91.2	0.463	
33	13C-1,2,3,4,7,8,9-HpCDF	7.21e5	0.44	NO	0.519	10.036	38.82	1.145	197.40	99.1	0.688	
34	13C-OCDF	1.75e6	0.89	NO	0.696	10.036	41.41	1.222	357.93	89.8	0.318	
35	37Cl-2,3,7,8-TCDD	5.75e5			1.17	10.036	25.80	1.029	76.544	96.0	0.0446	
36	13C-1,2,3,4-TCDD	1.27e6	0.80	NO	1.00	10.036	25.06	1.000	199.29	100	0.228	
37	13C-1,2,3,4-TCDF	1.96e6	0.79	NO	1.00	10.036	23.22	1.000	199.29	100	0.260	
38	13C-1,2,3,4,6,9-HxCDF	1.40e6	0.51	NO	1.00	10.036	33.89	1.000	199.29	100	0.347	
39	Total Tetra-Dioxins				0.983	10.036			1.7857		0.0672	4.21
40	Total Penta-Dioxins				0.921	10.036			4.2149		0.0716	4.71
41	Total Hexa-Dioxins				0.984	10.036			20.521		0.130	20.7
42	Total Hepta-Dioxins				1.01	10.036			135.01		0.403	135
43	Total Tetra-Furans				0.915	10.036			151.27		0.0952	156
44	1st Func. Penta-Furans				0.959	10.036			8.4773		0.0290	8.48
45	Total Penta-Furans				0.959	10.036			169.76		0.148	170
46	Total Hexa-Furans				1.09	10.036			156.11		0.129	156
47	Total Hepta-Furans				1.05	10.036			105.89		0.210	106

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200307R1\200307R1-13.qld

Last Altered: Tuesday, March 24, 2020 9:39:09 AM Pacific Daylight Time

Printed: Tuesday, March 24, 2020 9:41:41 AM Pacific Daylight Time

Method: Untitled 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\lb5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200307R1_13, Date: 07-Mar-2020, Time: 19:13:23, ID: 2000144-07 PDI-079SC-A-08-09-191014 15.43, Description: PDI-079SC-A-08-09-191014, Task: ST200307R1_1

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	21.53	4.594e4	5.013e4	4.212e3	4.641e3	0.91	YES	0.000e0	0.00000	1.1336	0.0672
2	Total Tetra-Dioxins	21.95	1.765e4	2.121e4	1.516e3	1.724e3	0.88	NO	3.239e3	0.44707	0.44707	0.0672
3	Total Tetra-Dioxins	22.43	4.909e3	5.258e3	3.098e2	4.347e2	0.71	NO	7.445e2	0.10275	0.10275	0.0672
4	Total Tetra-Dioxins	23.40	9.784e3	1.432e4	9.753e2	1.321e3	0.74	NO	2.296e3	0.31693	0.31693	0.0672
5	Total Tetra-Dioxins	23.68	8.111e3	1.329e4	5.163e2	1.220e3	0.42	YES	0.000e0	0.00000	0.16379	0.0672
6	Total Tetra-Dioxins	23.94	1.333e4	1.639e4	1.029e3	1.349e3	0.76	NO	2.378e3	0.32814	0.32814	0.0672
7	Total Tetra-Dioxins	24.22	3.391e3	4.279e3	2.682e2	2.923e2	0.92	YES	0.000e0	0.00000	0.071396	0.0672
8	Total Tetra-Dioxins	24.45	2.828e3	4.777e3	2.071e2	2.990e2	0.69	NO	5.061e2	0.069851	0.069851	0.0672
9	Total Tetra-Dioxins	24.66	4.540e3	6.350e3	3.018e2	4.741e2	0.64	YES	0.000e0	0.00000	0.095736	0.0672
10	Total Tetra-Dioxins	25.05	4.857e3	4.911e3	3.231e2	3.399e2	0.95	YES	0.000e0	0.00000	0.083041	0.0672
11	Total Tetra-Dioxins	25.51	1.900e4	2.872e4	1.581e3	2.194e3	0.72	NO	3.775e3	0.52096	0.52096	0.0672
12	2,3,7,8-TCDD	25.80	2.708e4	5.411e4	2.165e3	3.539e3	0.61	YES	5.704e3	0.00000	0.68678	0.0672
13	Total Tetra-Dioxins	26.15	8.839e3	7.504e3	5.583e2	5.669e2	0.98	YES	0.000e0	0.00000	0.13849	0.0672
14	Total Tetra-Dioxins	26.81	4.660e3	3.660e3	3.286e2	2.207e2	1.49	YES	0.000e0	0.00000	0.053921	0.0672

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.68	3.111e4	5.002e4	2.751e3	4.234e3	0.65	NO	6.985e3	1.2232	1.2232	0.0716
2	Total Penta-Dioxins	29.17	1.508e4	2.596e4	9.223e2	1.473e3	0.63	NO	2.396e3	0.41948	0.41948	0.0716
3	Total Penta-Dioxins	29.71	3.177e4	4.718e4	1.945e3	2.714e3	0.72	NO	4.659e3	0.81591	0.81591	0.0716
4	Total Penta-Dioxins	29.87	1.459e4	2.832e4	7.696e2	1.522e3	0.51	YES	0.000e0	0.00000	0.34866	0.0716
5	Total Penta-Dioxins	29.95	1.451e4	1.791e4	6.676e2	1.017e3	0.66	NO	1.685e3	0.29506	0.29506	0.0716
6	Total Penta-Dioxins	30.18	1.412e4	2.002e4	9.610e2	1.697e3	0.57	NO	2.658e3	0.46540	0.46540	0.0716
7	Total Penta-Dioxins	30.55	6.692e3	1.498e4	3.774e2	6.869e2	0.55	NO	1.064e3	0.18638	0.18638	0.0716
8	1,2,3,7,8-PeCDD	30.99	2.601e4	4.634e4	1.423e3	2.314e3	0.61	NO	3.737e3	0.65435	0.65435	0.0716
9	Total Penta-Dioxins	31.06	7.013e3	1.313e4	3.352e2	5.507e2	0.61	NO	8.859e2	0.15512	0.15512	0.0716
10	Total Penta-Dioxins	31.38	5.883e3	1.249e4	3.923e2	5.061e2	0.78	YES	0.000e0	0.00000	0.14445	0.0716

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200307R1\200307R1-13.qld

Last Altered: Tuesday, March 24, 2020 9:39:09 AM Pacific Daylight Time

Printed: Tuesday, March 24, 2020 9:41:41 AM Pacific Daylight Time

Name: 200307R1_13, Date: 07-Mar-2020, Time: 19:13:23, ID: 2000144-07 PDI-079SC-A-08-09-191014 15.43, Description: PDI-079SC-A-08-09-191014, Task: ST200307R1_1

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.90	4.188e5	3.203e5	2.233e4	1.740e4	1.28	NO	3.973e4	7.7197	7.7197	0.130
2	Total Hexa-Dioxins	33.47	6.341e4	5.963e4	3.727e3	3.064e3	1.22	NO	6.791e3	1.3195	1.3195	0.130
3	Total Hexa-Dioxins	33.71	2.985e5	2.361e5	2.089e4	1.655e4	1.26	NO	3.744e4	7.2757	7.2757	0.130
4	1,2,3,4,7,8-HxCDD	34.37	2.903e4	1.797e4	1.375e3	1.169e3	1.18	NO	2.544e3	0.47613	0.47613	0.121
5	1,2,3,6,7,8-HxCDD	34.48	1.016e5	8.571e4	6.825e3	5.475e3	1.25	NO	1.230e4	2.1984	2.1984	0.119
6	Total Hexa-Dioxins	34.67	1.515e4	1.281e4	8.024e2	7.162e2	1.12	NO	1.519e3	0.29507	0.29507	0.130
7	1,2,3,7,8,9-HxCDD	34.75	4.649e4	3.995e4	3.429e3	2.891e3	1.19	NO	6.320e3	1.2369	1.2369	0.136
8	Total Hexa-Dioxins	35.36	8.781e3	3.690e3	4.656e2	2.970e2	1.57	YES	0.000e0	0.00000	0.12927	0.130

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.17	1.980e6	1.927e6	1.636e5	1.582e5	1.03	NO	3.218e5	72.005	72.005	0.403
2	1,2,3,4,6,7,8-HpCDD	38.21	1.566e6	1.544e6	1.427e5	1.388e5	1.03	NO	2.815e5	63.003	63.003	0.403

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Dataset: U:\VG12.PRO\Results\200307R1\200307R1-13.qld

Last Altered: Tuesday, March 24, 2020 9:39:09 AM Pacific Daylight Time

Printed: Tuesday, March 24, 2020 9:41:41 AM Pacific Daylight Time

Name: 200307R1_13, Date: 07-Mar-2020, Time: 19:13:23, ID: 2000144-07 PDI-079SC-A-08-09-191014 15.43, Description: PDI-079SC-A-08-09-191014, Task: ST200307R1_1

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	19.51	2.040e4	2.833e4	1.776e3	2.309e3	0.77	NO	4.085e3	0.43164	0.43164	0.0952
2	Total Tetra-Furans	20.02	3.853e4	4.796e4	2.936e3	3.629e3	0.81	NO	6.564e3	0.69358	0.69358	0.0952
3	Total Tetra-Furans	20.59	9.856e5	1.237e6	8.190e4	1.056e5	0.78	NO	1.875e5	19.811	19.811	0.0952
4	Total Tetra-Furans	21.09	7.030e4	9.412e4	9.566e3	1.257e4	0.76	NO	2.213e4	2.3385	2.3385	0.0952
5	Total Tetra-Furans	21.50	4.785e5	6.343e5	4.541e4	5.996e4	0.76	NO	1.054e5	11.133	11.133	0.0952
6	Total Tetra-Furans	21.95	1.456e5	1.847e5	1.442e4	1.813e4	0.80	NO	3.256e4	3.4401	3.4401	0.0952
7	Total Tetra-Furans	22.32	6.822e4	8.437e4	6.288e3	7.982e3	0.79	NO	1.427e4	1.5078	1.5078	0.0952
8	Total Tetra-Furans	22.79	1.579e4	1.843e4	1.242e3	1.550e3	0.80	NO	2.793e3	0.29510	0.29510	0.0952
9	Total Tetra-Furans	22.92	1.081e4	1.370e4	8.642e2	1.035e3	0.83	NO	1.899e3	0.20068	0.20068	0.0952
10	Total Tetra-Furans	23.22	4.039e5	5.464e5	5.335e4	7.071e4	0.75	NO	1.241e5	13.109	13.109	0.0952
11	Total Tetra-Furans	23.81	1.761e6	2.301e6	1.621e5	2.108e5	0.77	NO	3.729e5	39.398	39.398	0.0952
12	Total Tetra-Furans	24.12	6.195e4	8.216e4	5.413e3	6.832e3	0.79	NO	1.225e4	1.2938	1.2938	0.0952
13	Total Tetra-Furans	24.33	3.536e4	4.101e4	2.790e3	3.693e3	0.76	NO	6.483e3	0.68496	0.68496	0.0952
14	Total Tetra-Furans	24.60	1.705e4	2.142e4	9.780e2	1.203e3	0.81	NO	2.181e3	0.23041	0.23041	0.0952
15	Total Tetra-Furans	24.72	3.682e5	5.087e5	2.625e4	3.455e4	0.76	NO	6.080e4	6.4244	6.4244	0.0952
16	2,3,7,8-TCDF	24.84	2.471e6	3.180e6	1.984e5	2.579e5	0.77	NO	4.564e5	48.220	48.220	0.0952
17	Total Tetra-Furans	25.24	9.322e4	1.154e5	7.219e3	8.869e3	0.81	NO	1.609e4	1.6999	1.6999	0.0952
18	Total Tetra-Furans	25.53	2.206e4	2.711e4	1.553e3	1.822e3	0.85	NO	3.375e3	0.35663	0.35663	0.0952
19	Total Tetra-Furans	26.96	3.322e5	3.417e5	2.196e4	2.311e4	0.95	YES	0.000e0	0.00000	4.3226	0.0952

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	26.96	6.837e5	4.386e5	4.429e4	2.812e4	1.58	NO	7.241e4	8.4773	8.4773	0.0290

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200307R1\200307R1-13.qld

Last Altered: Tuesday, March 24, 2020 9:39:09 AM Pacific Daylight Time

Printed: Tuesday, March 24, 2020 9:41:41 AM Pacific Daylight Time

Name: 200307R1_13, Date: 07-Mar-2020, Time: 19:13:23, ID: 2000144-07 PDI-079SC-A-08-09-191014 15.43, Description: PDI-079SC-A-08-09-191014, Task: ST200307R1_1

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.62	2.450e6	1.591e6	1.851e5	1.147e5	1.61	NO	2.999e5	35.106	35.106	0.148
2	Total Penta-Furans	29.23	5.202e5	3.337e5	3.121e4	2.115e4	1.48	NO	5.236e4	6.1296	6.1296	0.148
3	Total Penta-Furans	29.46	6.512e5	4.098e5	3.489e4	2.347e4	1.49	NO	5.836e4	6.8327	6.8327	0.148
4	1,2,3,7,8-PeCDF	29.65	5.863e6	3.858e6	3.425e5	2.228e5	1.54	NO	5.653e5	65.656	65.656	0.150
5	Total Penta-Furans	29.92	1.826e6	1.152e6	1.058e5	6.800e4	1.56	NO	1.738e5	20.349	20.349	0.148
6	Total Penta-Furans	30.56	3.470e4	2.641e4	1.857e3	1.368e3	1.36	NO	3.225e3	0.37758	0.37758	0.148
7	2,3,4,7,8-PeCDF	30.67	2.854e6	1.744e6	1.111e5	7.021e4	1.58	NO	1.813e5	20.453	20.453	0.139
8	Total Penta-Furans	30.68	2.570e6	1.531e6	7.014e4	4.306e4	1.63	NO	1.132e5	13.254	13.254	0.148
9	Total Penta-Furans	31.61	1.445e5	9.654e4	8.227e3	5.449e3	1.51	NO	1.368e4	1.6011	1.6011	0.148

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.34	2.480e5	1.942e5	1.272e4	1.054e4	1.21	NO	2.326e4	3.2259	3.2259	0.129
2	Total Hexa-Furans	32.51	9.361e5	7.275e5	5.042e4	4.114e4	1.23	NO	9.156e4	12.697	12.697	0.129
3	Total Hexa-Furans	32.86	1.825e4	1.436e4	9.297e2	8.569e2	1.08	NO	1.787e3	0.24775	0.24775	0.129
4	Total Hexa-Furans	33.06	7.672e5	6.419e5	4.079e4	3.328e4	1.23	NO	7.407e4	10.272	10.272	0.129
5	Total Hexa-Furans	33.42	5.716e4	4.609e4	2.294e3	1.923e3	1.19	NO	4.218e3	0.58487	0.58487	0.129
6	1,2,3,4,7,8-HxCDF	33.52	6.454e6	5.315e6	3.442e5	2.828e5	1.22	NO	6.270e5	88.971	88.971	0.118
7	1,2,3,6,7,8-HxCDF	33.64	1.652e6	1.329e6	1.003e5	8.008e4	1.25	NO	1.804e5	24.279	24.279	0.124
8	Total Hexa-Furans	33.90	2.731e4	2.215e4	1.358e3	1.016e3	1.34	NO	2.374e3	0.32918	0.32918	0.129
9	2,3,4,6,7,8-HxCDF	34.21	3.675e5	3.080e5	2.231e4	1.809e4	1.23	NO	4.040e4	5.6575	5.6575	0.129
10	1,2,3,7,8,9-HxCDF	35.12	4.619e5	3.750e5	1.556e4	1.281e4	1.21	NO	2.837e4	4.8070	4.8070	0.178
11	Total Hexa-Furans	35.13	4.982e5	4.041e5	2.036e4	1.599e4	1.27	NO	3.636e4	5.0418	5.0418	0.129

Dataset: U:\VG12.PRO\Results\200307R1\200307R1-13.qld

Last Altered: Tuesday, March 24, 2020 9:39:09 AM Pacific Daylight Time

Printed: Tuesday, March 24, 2020 9:41:41 AM Pacific Daylight Time

Name: 200307R1_13, Date: 07-Mar-2020, Time: 19:13:23, ID: 2000144-07 PDI-079SC-A-08-09-191014 15.43, Description: PDI-079SC-A-08-09-191014,
Task: ST200307R1_1

Hepta-Furans

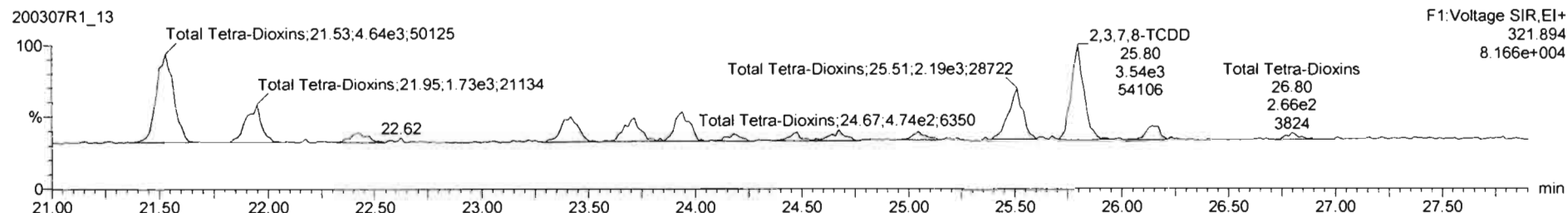
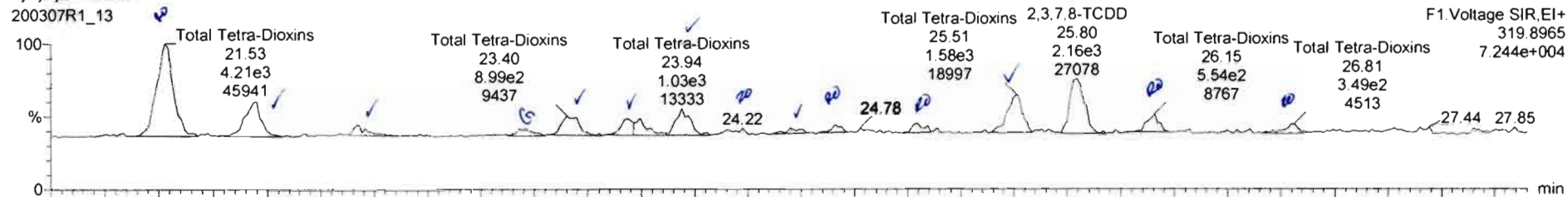
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1	1,2,3,4,6,7,8-HpCDF	36.80	1.410e6	1.380e6	1.116e5	1.104e5	1.01	NO	2.220e5	42.835	42.835	0.187
2	Total Hepta-Furans	37.17	3.017e4	2.525e4	2.142e3	2.126e3	1.01	NO	4.268e3	0.95080	0.95080	0.210
3	Total Hepta-Furans	37.38	1.228e6	1.229e6	1.010e5	1.010e5	1.00	NO	2.020e5	45.006	45.006	0.210
4	1,2,3,4,7,8,9-HpCDF	38.84	4.956e5	4.914e5	3.795e4	3.694e4	1.03	NO	7.489e4	17.100	17.100	0.209

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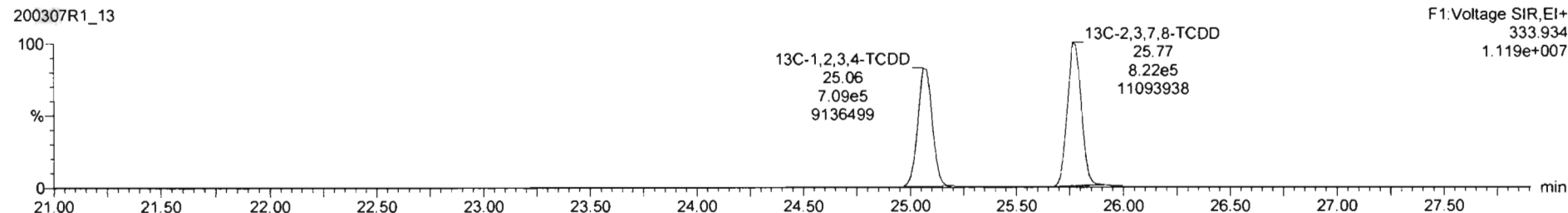
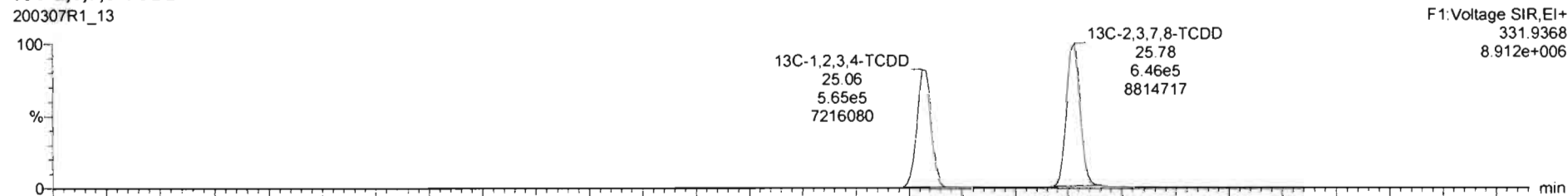
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Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

Name: 200307R1_13, Date: 07-Mar-2020, Time: 19:13:23, ID: 2000144-07 PDI-079SC-A-08-09-191014 15.43, Description: PDI-079SC-A-08-09-191014

2,3,7,8-TCDD

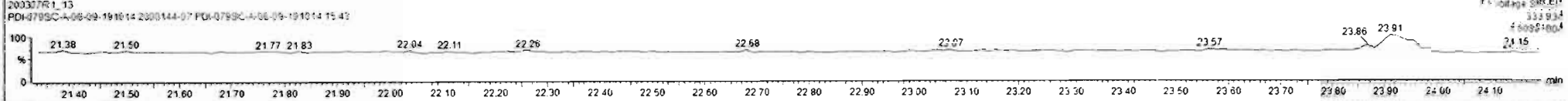
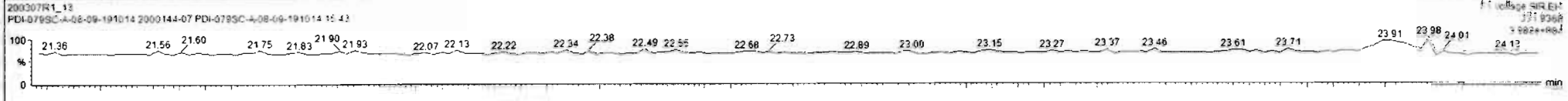
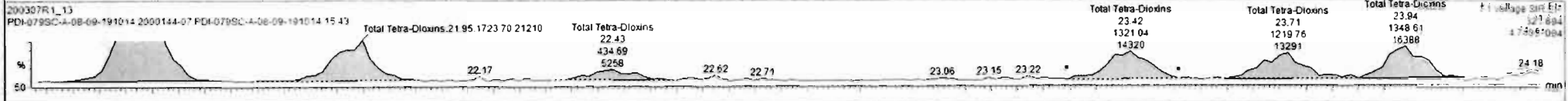
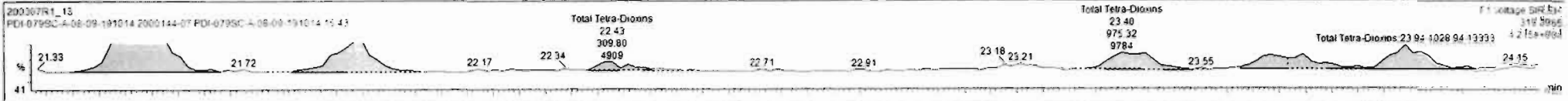


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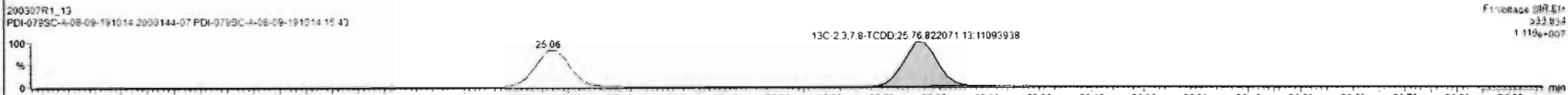
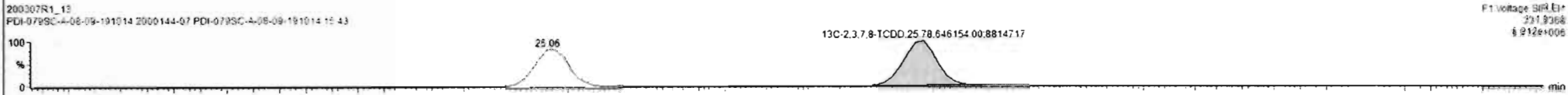
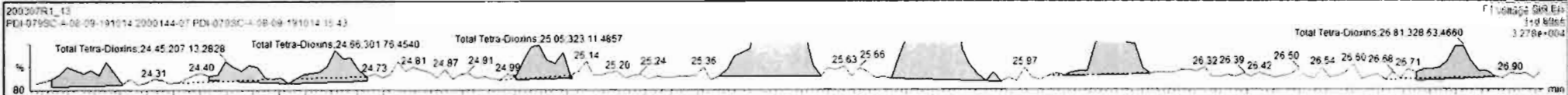
Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.98	10.036			2.06		0.0672	4.27
40 Total Penta-Dioxins				0.92	10.036			2.75		0.0716	4.60
41 Total Hexa-Dioxins				0.98	10.036			20.5		0.130	21.3
42 Total Hepta-Dioxins				1.01	10.036			135		0.403	135
43 Total Tetra-Furans				0.92	10.036			151		0.0952	155
44 1st Func. Penta-Furans				0.96	10.036			8.48		0.0290	8.48
45 Total Penta-Furans				0.95	10.036			168		0.148	169
46 Total Hexa-Furans				1.05	10.036			157		0.129	157
47 Total Hepta-Furans				1.05	10.036			106		0.210	106

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Tetra-Dioxins	21.53	4.212e3	4.641e3	0.91	YES	1.1336	0.00000
2 Total Tetra-Dioxins	21.95	1.516e3	1.724e3	0.86	NO	0.44707	0.44707
3 Total Tetra-Dioxins	22.43	3.098e2	4.347e2	0.71	NO	0.10275	0.10275
4 Total Tetra-Dioxins	23.40	9.753e2	1.321e3	0.74	NO	0.31693	0.31693
5 Total Tetra-Dioxins	23.74	9.981e2	1.220e3	0.82	NO	0.30562	0.30562
6 Total Tetra-Dioxins	23.94	1.025e3	1.348e3	0.76	NO	0.32814	0.32814
7 Total Tetra-Dioxins	24.45	2.157e2	2.980e2	0.72	NO	0.071040	0.071040
8 Total Tetra-Dioxins	24.66	2.082e2	4.741e2	0.44	YES	0.066037	0.00000
9 Total Tetra-Dioxins	25.05	3.063e2	3.322e2	0.92	YES	0.081141	0.00000
10 Total Tetra-Dioxins	26.51	1.551e3	2.194e3	0.72	NO	0.52096	0.52096
11 2,2',6,6'-TCDD	26.60	2.165e3	3.535e3	0.61	YES	0.68678	0.00000



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.98	10.036			2.09	0.0672	4.35	
40 Total Penta-Dioxins				0.92	10.036			2.75	0.0716	3.60	
41 Total Hexa-Dioxins				0.98	10.036			20.5	0.130	21.3	
42 Total Hepta-Dioxins				1.01	10.036			135	0.403	135	
43 Total Tetra-Furans				0.92	10.036			151	0.0562	151	
44 1st Func. Penta-Furans				0.95	10.036			8.48	0.0290	8.48	
45 Total Penta-Furans				0.96	10.036			156	0.148	169	
46 Total Hexa-Furans				1.09	10.036			157	0.126	157	
47 Total Hepta-Furans				1.05	10.036			106	0.210	106	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Dioxins	21.53	4.212e2	4.641e2	0.91	YES	1.1336	0.00000
2 Total Tetra-Dioxins	21.95	1.516e3	1.724e3	0.88	NO	0.44707	0.44707
3 Total Tetra-Dioxins	22.43	3.098e2	4.347e2	0.71	NO	0.10275	0.10275
4 Total Tetra-Dioxins	23.40	9.752e2	1.321e3	0.74	NO	0.31693	0.31693
5 Total Tetra-Dioxins	23.74	9.961e2	1.220e3	0.82	NO	0.30562	0.30562
6 Total Tetra-Dioxins	23.94	1.029e3	1.349e3	0.76	NO	0.22614	0.32814
7 Total Tetra-Dioxins	24.22	2.582e2	2.923e2	0.92	YES	0.071396	0.00000
8 Total Tetra-Dioxins	24.45	2.071e2	2.560e2	0.85	NO	0.069851	0.069851
9 Total Tetra-Dioxins	24.66	3.018e2	4.741e2	0.64	YES	0.095736	0.00000
10 Total Tetra-Dioxins	25.05	3.231e2	3.399e2	0.95	YES	0.083041	0.00000
11 Total Tetra-Dioxins	25.51	1.581e3	2.194e3	0.72	NO	0.52096	0.52096



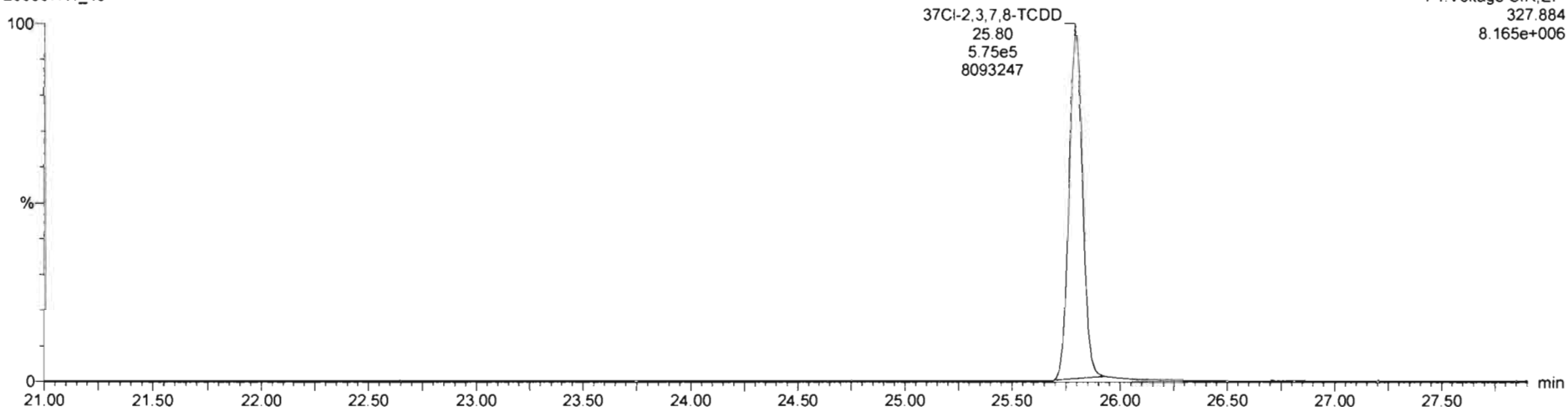
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Name: 200307R1_13, Date: 07-Mar-2020, Time: 19:13:23, ID: 2000144-07 PDI-079SC-A-08-09-191014 15.43, Description: PDI-079SC-A-08-09-191014

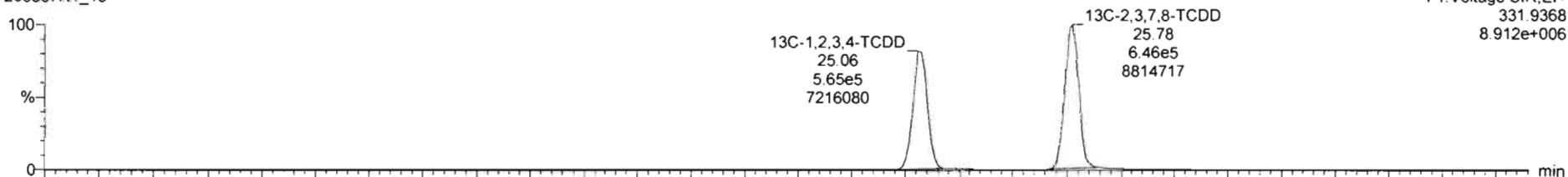
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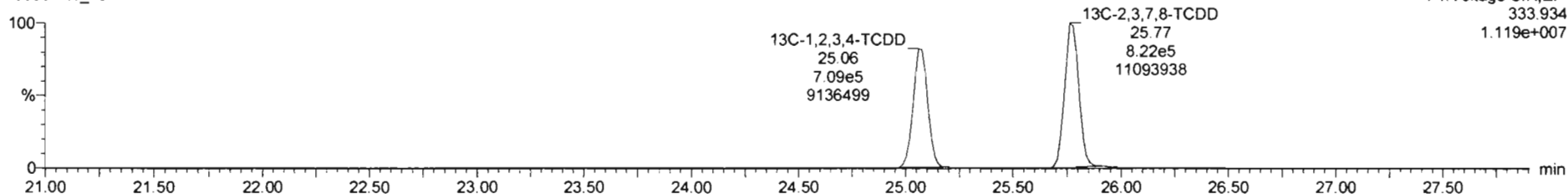


13C-1,2,3,4-TCDD

200307R1_13



200307R1_13



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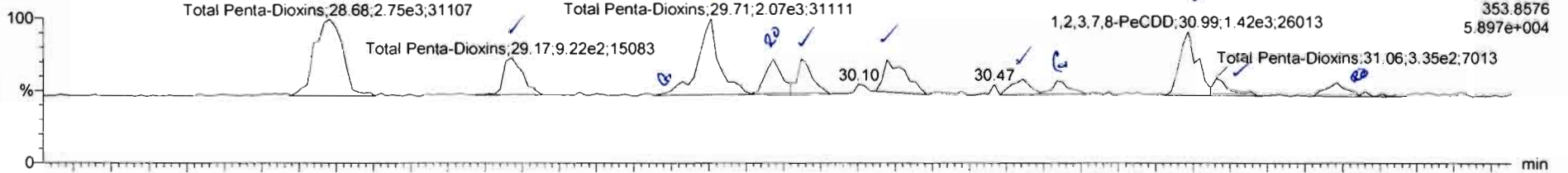
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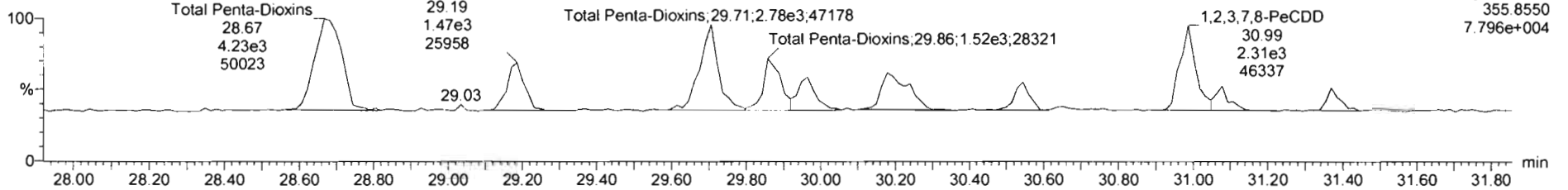
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1,2,3,7,8-PeCDD

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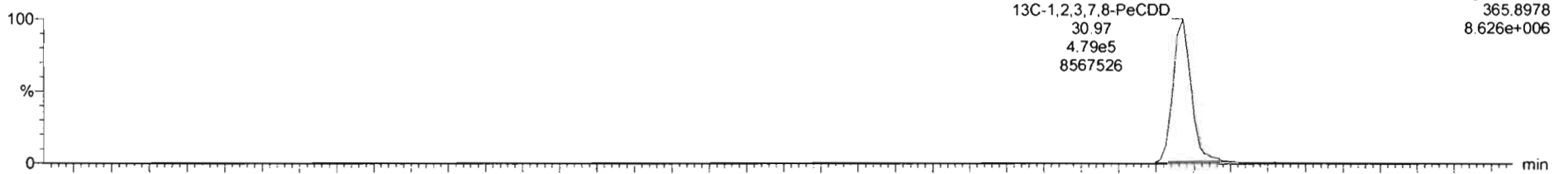


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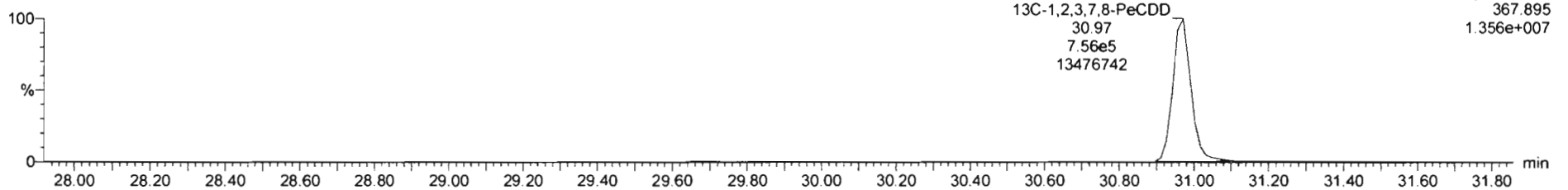


13C-1,2,3,7,8-PeCDD

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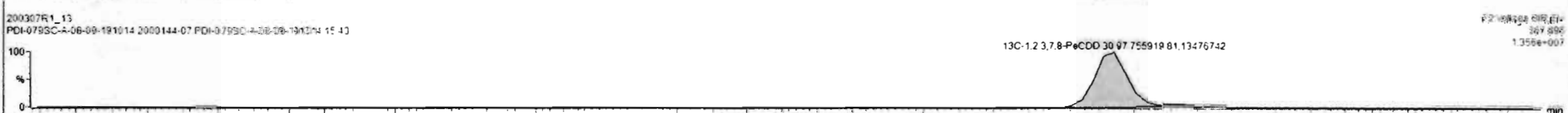
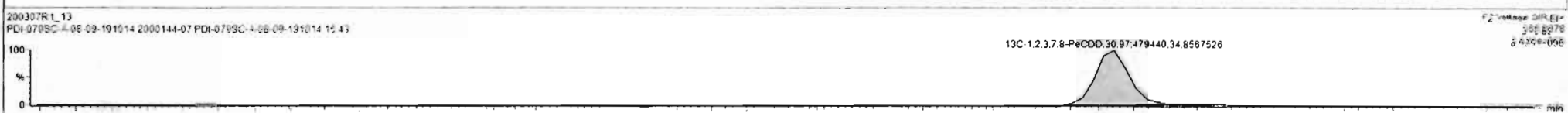
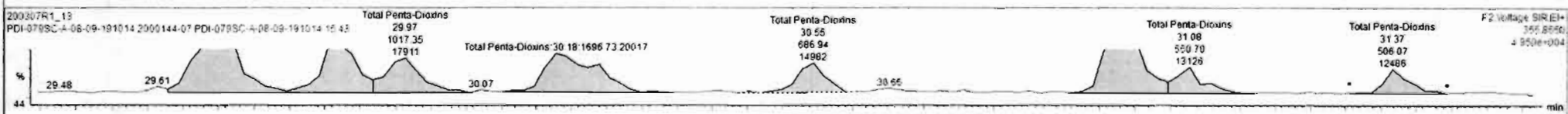
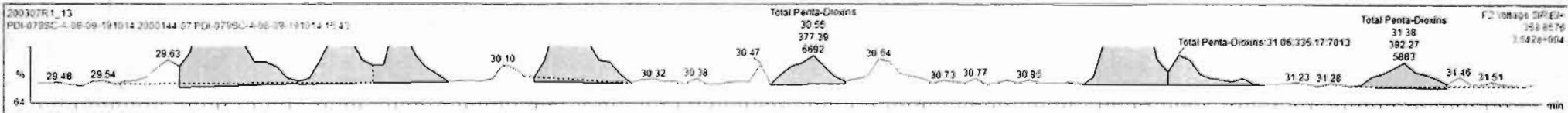


200307R1_13



Name	Resp	RA	rvy	RRF	wtVoi	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.98	10.036			2.09	0.0672	4.35	
40 Total Penta-Dioxins				0.92	10.036			4.21	0.0716	4.71	
41 Total Hexa-Dioxins				0.98	10.036			20.5	0.130	21.3	
42 Total Hepta-Dioxins				1.01	10.036			1351	0.4031	1351	

Name	RT	m1 Resp	m2 Resp	RA	rvy	EMPC	Conc.
1 Total Penta-Dioxins	28.66	2.751e3	4.274e3	0.65	NO	1.2272	1.2232
2 Total Penta-Dioxins	29.17	9.223e2	1.473e3	0.63	NO	0.41948	0.41948
3 Total Penta-Dioxins	29.71	1.945e3	2.714e3	0.72	NO	0.81591	0.81591
4 Total Penta-Dioxins	29.87	7.696e2	1.522e3	0.51	YES	0.34866	0.00000
5 Total Penta-Dioxins	29.95	6.676e2	1.017e3	0.66	NO	0.29508	0.29508
6 Total Penta-Dioxins	30.18	9.610e2	1.697e3	0.57	NO	0.46540	0.46540
7 Total Penta-Dioxins	30.55	3.774e2	6.869e2	0.55	NO	0.18638	0.18638
8 1,2,3,7,8-PeCDD	30.99	1.423e3	2.314e3	0.61	NO	0.65435	0.65435
9 Total Penta-Dioxins	31.06	3.252e2	5.507e2	0.61	NO	0.15512	0.15512
10 Total Penta-Dioxins	31.38	3.923e2	5.061e2	0.78	YES	0.14445	0.00000



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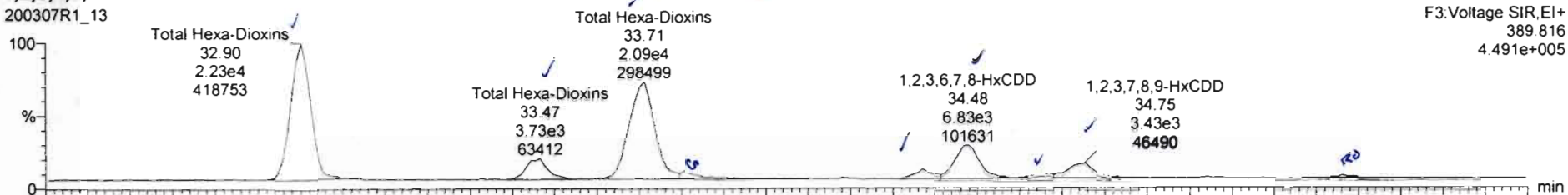
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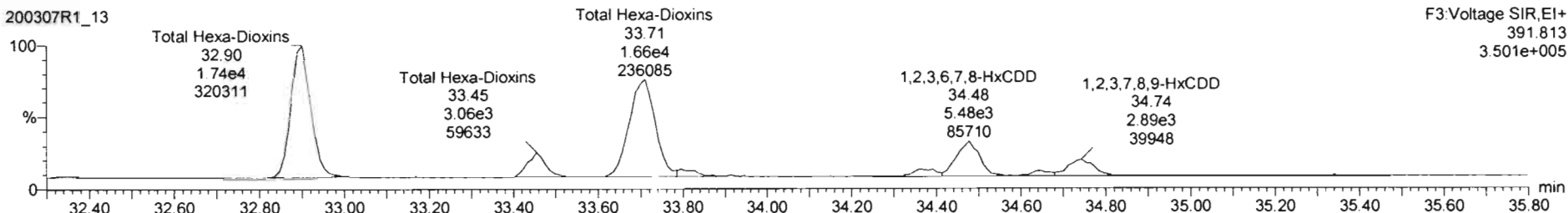
Name: 200307R1_13, Date: 07-Mar-2020, Time: 19:13:23, ID: 2000144-07 PDI-079SC-A-08-09-191014 15.43, Description: PDI-079SC-A-08-09-191014

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

200307R1_13

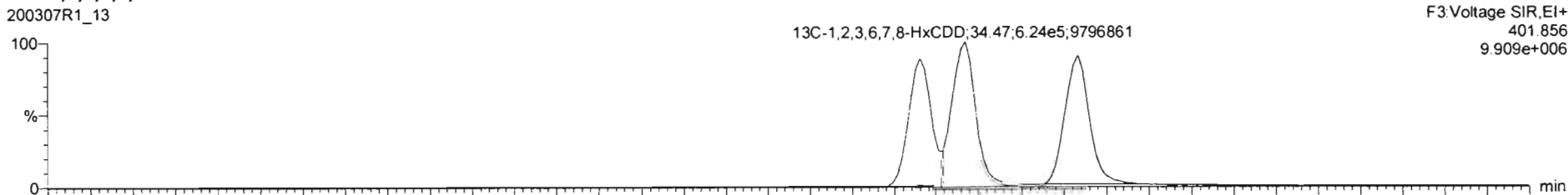


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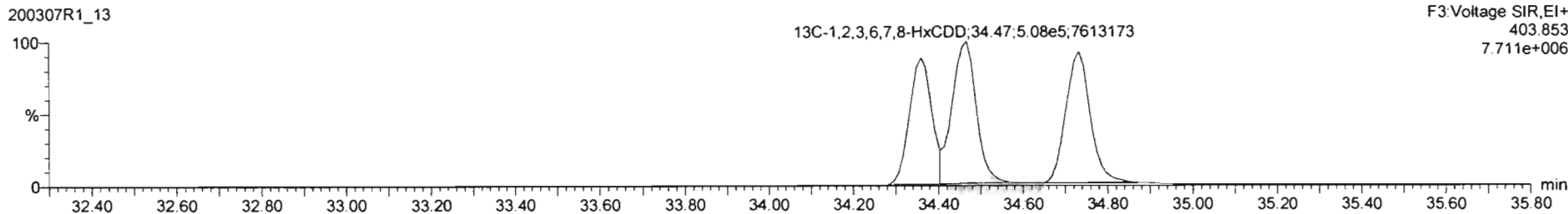


13C-1,2,3,4,7,8-HxCDD

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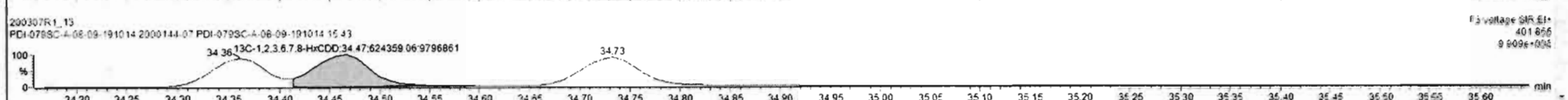
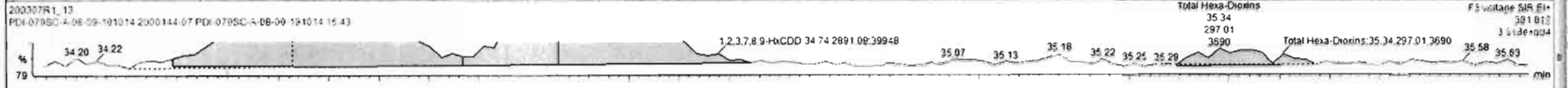
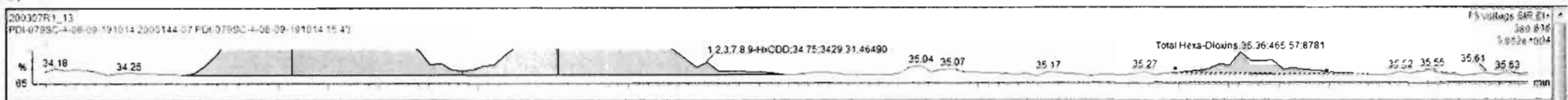


200307R1_13



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.98	10.036			20.5		0.130	20.7
42 Total Hepta-Dioxins				1.01	10.036			135		0.403	135
43 Total Tetra-Furans				0.92	10.036			161		0.0952	165
44 1st Func. Penta-Furans				0.96	10.036			8.48		0.6290	8.48

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	32.90	2.233e4	1.740e4	1.26	NO	7.7197	7.7197
2 Total Hexa-Dioxins	33.47	3.227e3	3.064e3	1.22	NO	1.3195	1.3195
3 Total Hexa-Dioxins	33.71	2.089e4	1.655e4	1.26	NO	7.2757	7.2757
4 1,2,3,4,7,8-HxCDD	34.37	1.375e3	1.169e3	1.18	NO	0.47613	0.47613
5 1,2,3,6,7,8-HxCDD	34.48	6.825e3	5.475e3	1.25	NO	2.1984	2.1984
6 Total Hexa-Dioxins	34.67	8.024e2	7.162e2	1.12	NO	0.29507	0.29507
7 1,2,3,7,8,9-HxCDD	34.75	2.429e3	2.891e3	1.19	NO	1.2369	1.2369
8 Total Hexa-Dioxins	35.36	4.656e2	2.970e2	1.57	YES	0.12927	0.00000



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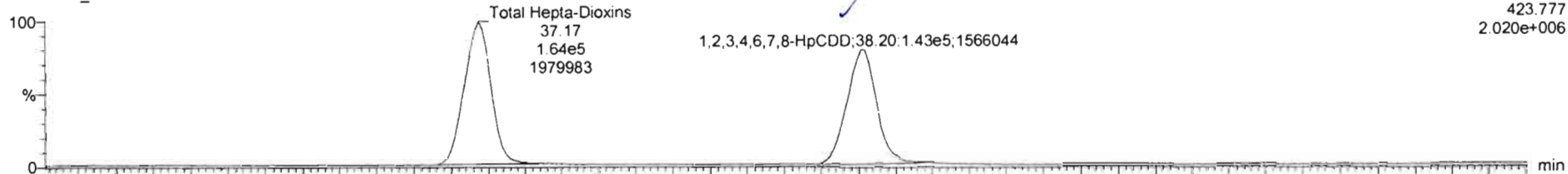
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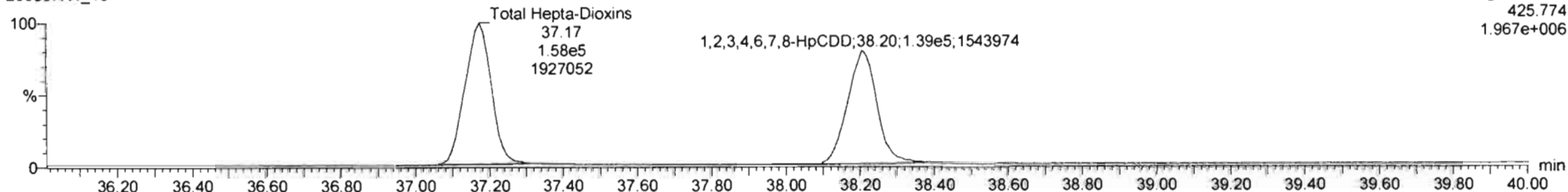
Name: 200307R1_13, Date: 07-Mar-2020, Time: 19:13:23, ID: 2000144-07 PDI-079SC-A-08-09-191014 15.43, Description: PDI-079SC-A-08-09-191014

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

200307R1_13

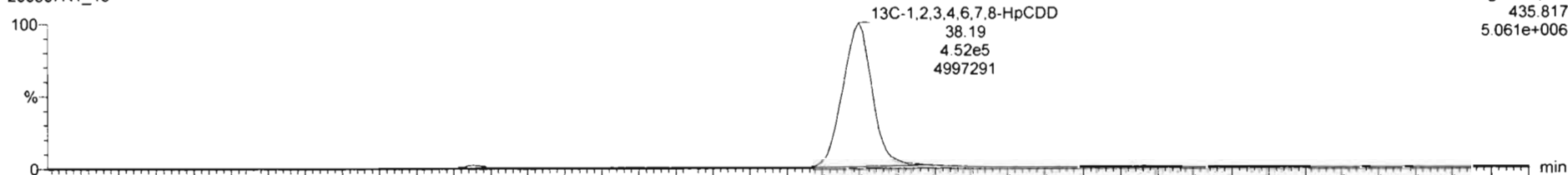


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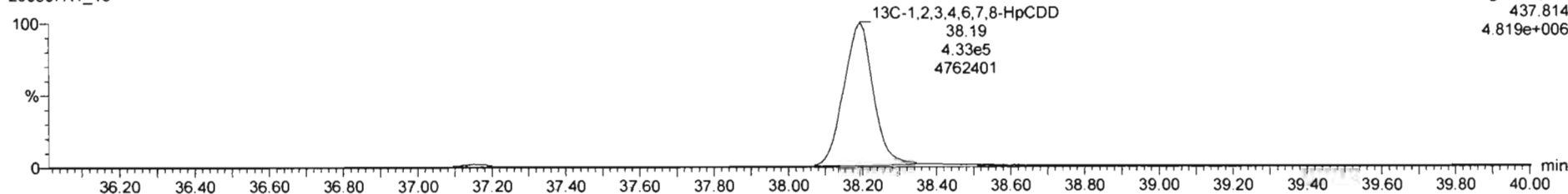


13C-1,2,3,4,6,7,8-HpCDD

200307R1_13



200307R1_13

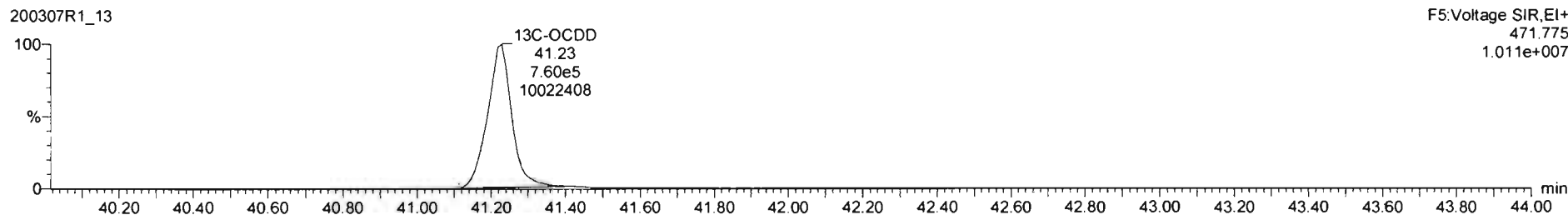
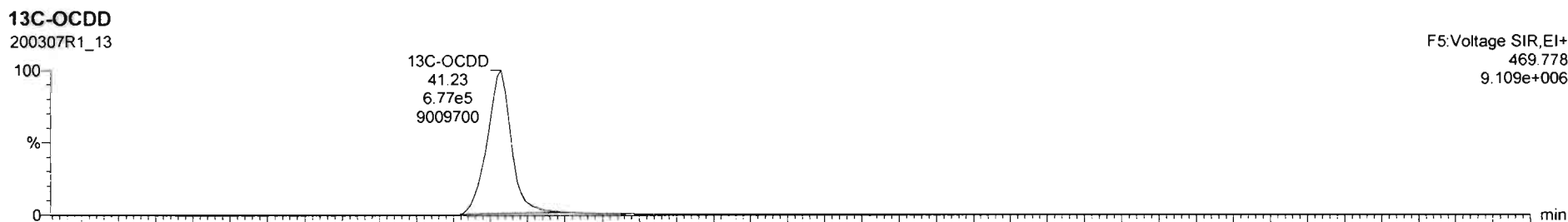
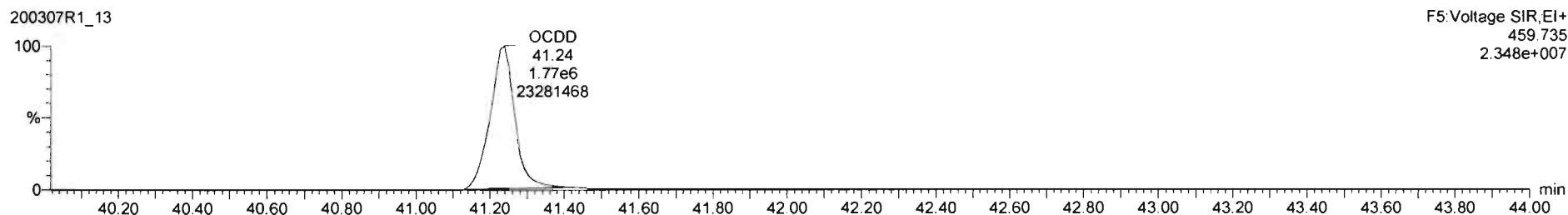
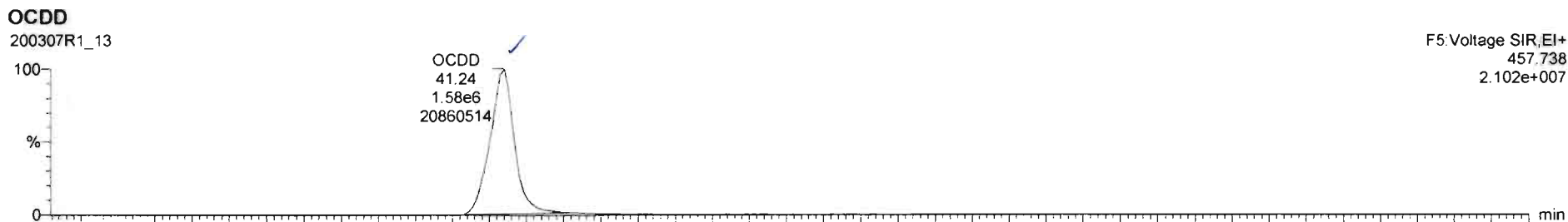


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Name: 200307R1_13, Date: 07-Mar-2020, Time: 19:13:23, ID: 2000144-07 PDI-079SC-A-08-09-191014 15.43, Description: PDI-079SC-A-08-09-191014



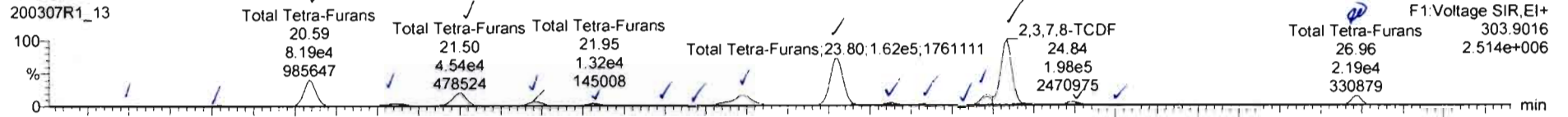
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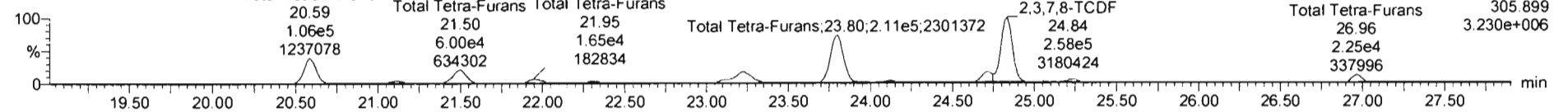
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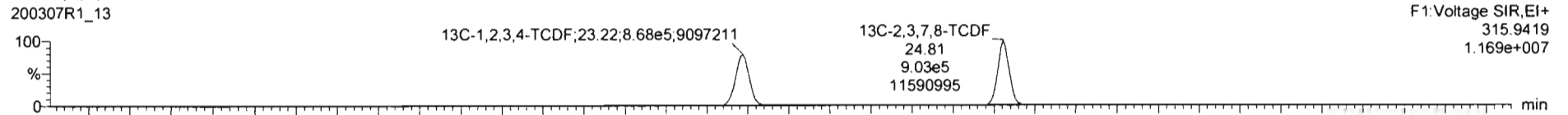
2,3,7,8-TCDF



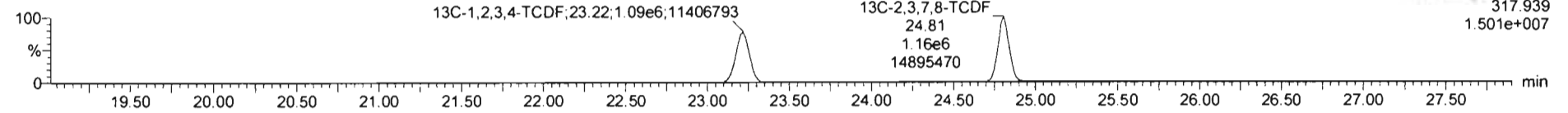
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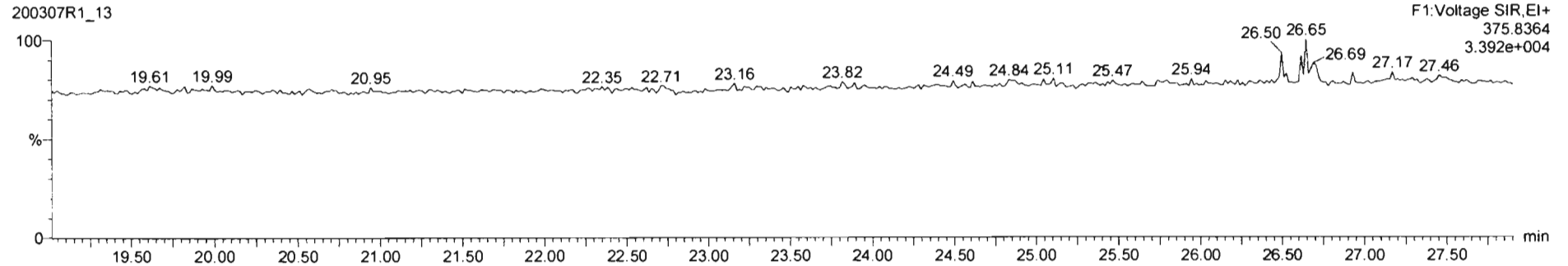
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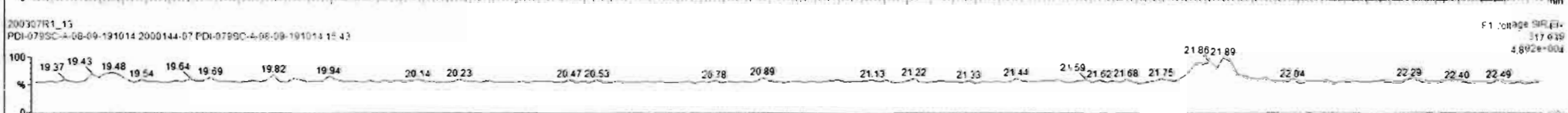
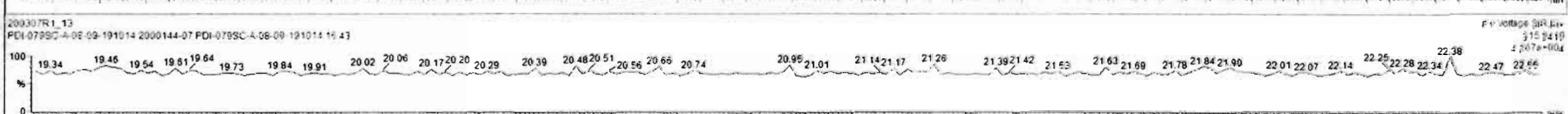
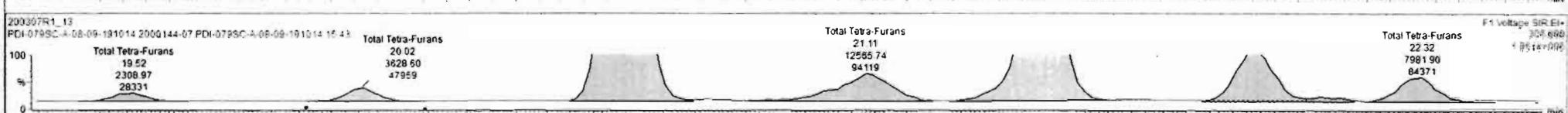
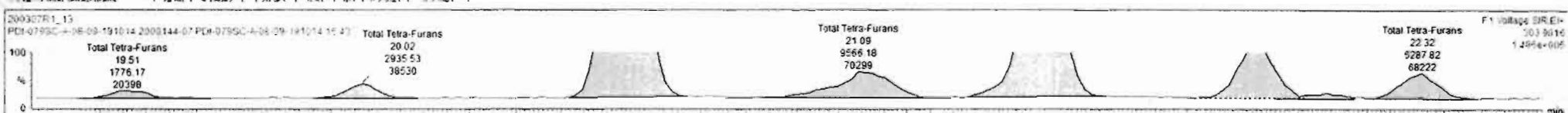


DPE1



Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.98	10.036			20.5		0.130	20.7
42 Total Hepta-Dioxins				1.01	10.036			135		0.403	135
43 Total Tetra-Furans				0.92	10.036			151		0.0952	156
44 1st Func. Penta-Furans				0.96	10.036			6.40		0.02901	6.40

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	19.51	1.775e3	2.305e3	0.77	NO	0.43164	3.43164
2 Total Tetra-Furans	20.02	2.936e3	3.529e3	0.81	NO	0.69358	0.69358
3 Total Tetra-Furans	20.59	8.190e4	1.056e5	0.78	NO	19.811	19.811
4 Total Tetra-Furans	21.09	9.566e3	1.257e4	0.76	NO	2.3385	2.3385
5 Total Tetra-Furans	21.50	4.541e4	5.966e4	0.76	NO	11.133	11.133
6 Total Tetra-Furans	21.95	1.442e4	1.813e4	0.80	NO	3.4401	3.4401
7 Total Tetra-Furans	22.32	6.286e3	7.982e3	0.79	NO	1.5078	1.5078
8 Total Tetra-Furans	22.79	1.242e3	1.550e3	0.80	NO	0.26510	0.26510
9 Total Tetra-Furans	22.92	8.842e2	1.035e3	0.83	NO	0.20068	0.20068
10 Total Tetra-Furans	23.22	5.335e4	7.071e4	0.75	NO	13.109	13.109
11 Total Tetra-Furans	23.81	1.621e5	2.108e5	0.77	NO	39.398	39.398
12 Total Tetra-Furans	24.12	5.413e3	6.932e3	0.79	NO	1.2938	1.2938
13 Total Tetra-Furans	24.33	2.790e3	3.693e3	0.76	NO	0.68496	0.68496
14 Total Tetra-Furans	24.60	0.790e2	1.025e2	0.81	NO	0.29241	0.29241



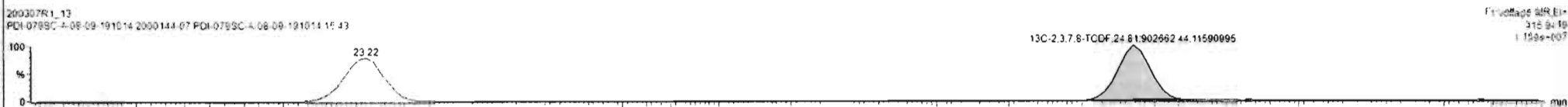
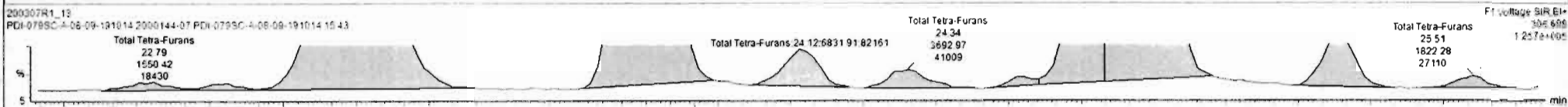
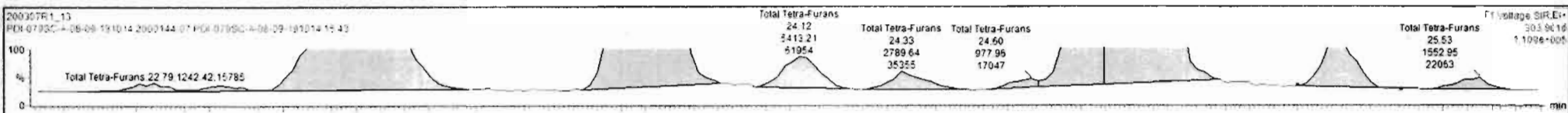
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200307R1_13 - 2000144-07 PDI-079SC-A-08-09-191014 15:43 - PDI-079SC-A-08-09-191014

#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Res	DL	EMPC
41	Total Hexa-Dioxins				0.98	10.036			20.5		0.130	20.7
42	Total Hepta-Coxins				1.01	10.036			135		0.403	135
43	Total Tetra-Furans				0.92	10.036			151		0.0952	150
44	1st Func. Penta-Furans				0.96	10.036			6.48		0.0290	6.42

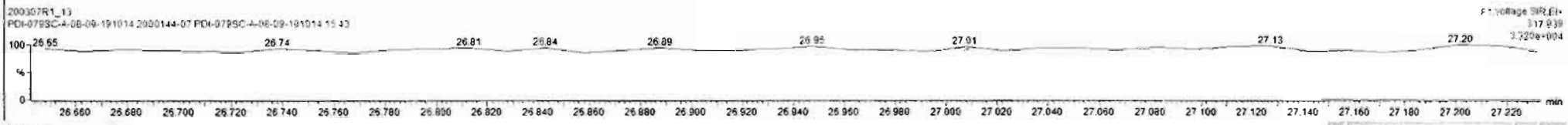
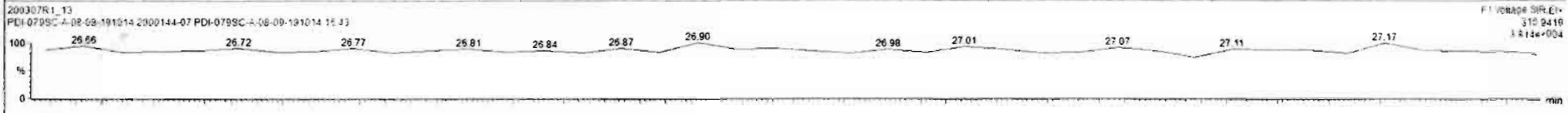
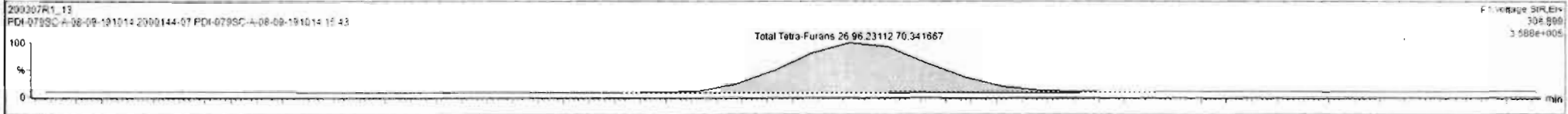
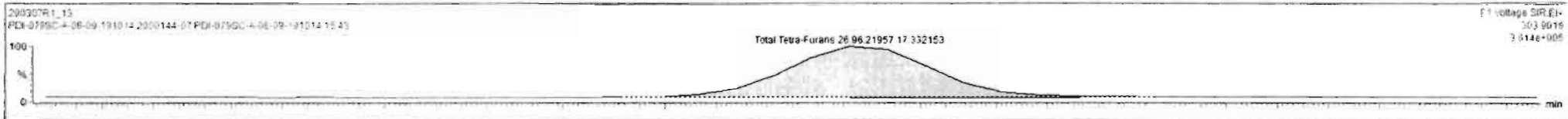
#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
9	Total Tetra-Furans	22.92	6.642e2	1.035e3	0.83	NO	0.20068	0.20068
10	Total Tetra-Furans	23.22	5.335e4	7.071e4	0.75	NO	13.105	13.109
11	Total Tetra-Furans	23.61	1.621e5	2.108e5	0.77	NO	39.398	39.396
12	Total Tetra-Furans	24.12	5.413e3	8.832e3	0.79	NO	1.2938	1.2928
13	Total Tetra-Furans	24.33	2.790e3	3.893e3	0.76	NO	0.68490	0.68496
14	Total Tetra-Furans	24.60	9.780e2	1.203e3	0.81	NO	0.22041	0.22041
15	Total Tetra-Furans	24.72	2.825e4	3.455e4	0.78	NO	6.4244	6.4244
16	2,3,7,8-TCDF	24.84	1.964e5	2.579e5	0.77	NO	48.220	48.220
17	Total Tetra-Furans	25.24	7.219e3	8.869e3	0.81	NO	1.6999	1.6999
18	Total Tetra-Furans	25.53	1.553e3	1.822e3	0.85	NO	0.35683	0.35667
19	Total Tetra-Furans	25.76	2.173e2	2.346e2	0.93	YES	0.043662	0.00000
20	Total Tetra-Furans	26.68	3.516e2	2.435e2	1.61	YES	0.045535	0.00000
21	Total Tetra-Furans	26.96	2.185e4	2.254e4	0.97	YES	4.2155	0.00000



Regdy 200307R1_13 CAP NUM

Name	Resp	RA	n/y	RF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.98	10.036			20.5		0.130	20.7
42 Total Hepta-Dioxins				1.01	10.036			135		0.403	135
43 Total Tetra-Furans				0.92	10.036			151		0.0952	158
44 1st Func. Penta-Furans				0.96	10.036			8.48		0.0290	6.48

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
7 Total Tetra-Furans	22.32	6.288e3	7.982e3	0.79	NO	1.5078	1.5078
8 Total Tetra-Furans	22.79	1.242e3	1.550e3	0.80	NO	0.29510	3.29510
9 Total Tetra-Furans	22.92	8.642e2	1.035e3	0.83	NO	0.20068	3.25068
10 Total Tetra-Furans	23.22	5.335e2	7.071e2	0.75	NO	12.109	13.109
11 Total Tetra-Furans	23.81	1.621e5	2.108e5	0.77	NO	39.398	35.398
12 Total Tetra-Furans	24.12	5.412e3	6.832e3	0.79	NO	1.2935	1.2935
13 Total Tetra-Furans	24.33	2.790e3	3.693e3	0.76	NO	6.68496	3.68496
14 Total Tetra-Furans	24.60	9.780e2	1.203e3	0.81	NO	0.23041	0.23041
15 Total Tetra-Furans	24.72	2.825e4	3.455e4	0.76	NO	6.4244	6.4244
16 2,3,7,8-TCDF	24.84	1.984e5	2.579e5	0.77	NO	48.220	48.220
17 Total Tetra-Furans	26.24	7.219e3	8.669e3	0.81	NO	1.6990	1.6990
18 Total Tetra-Furans	26.53	1.552e3	1.822e3	0.85	NO	0.35663	0.35663
19 Total Tetra-Furans	26.96	2.196e4	2.311e4	0.95	YES	4.3226	0.00000



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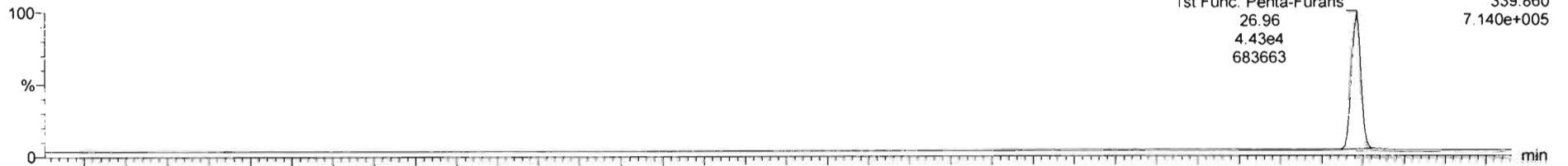
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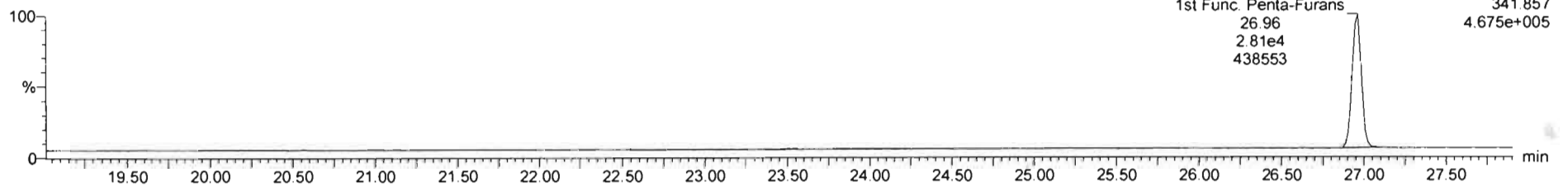
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1st Func. Penta-Furans

200307R1_13

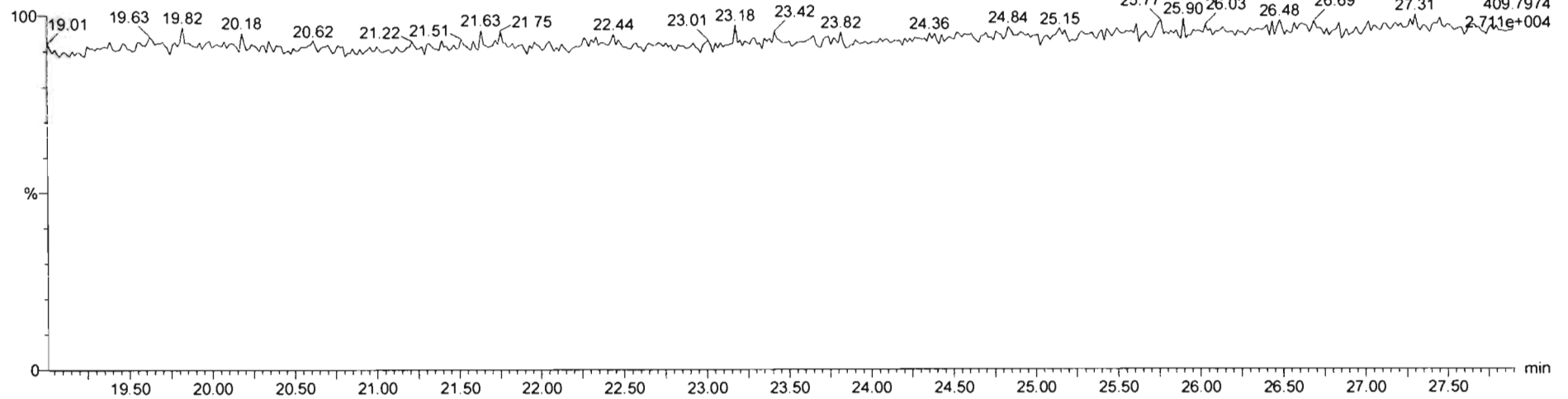


200307R1_13



DPE6

200307R1_13



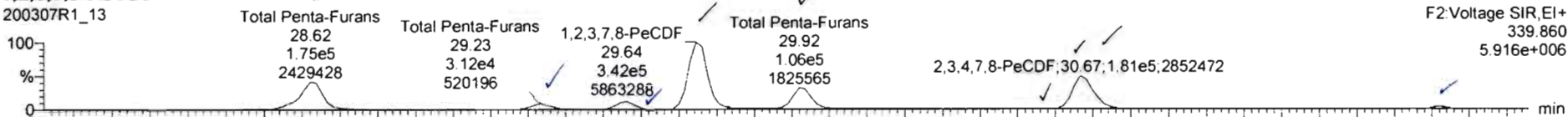
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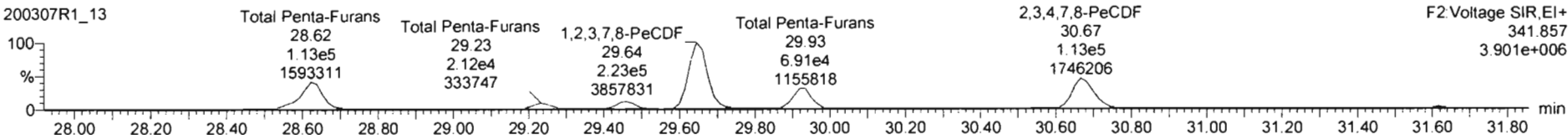
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1,2,3,7,8-PeCDF

200307R1_13

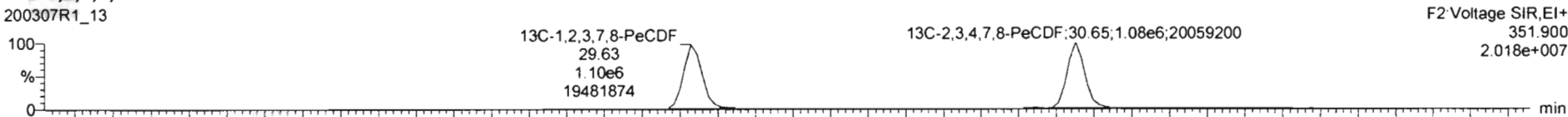


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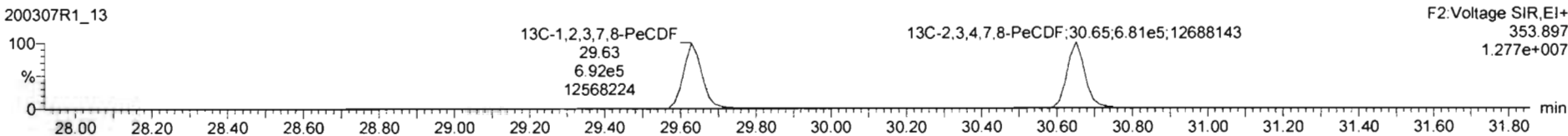


13C-1,2,3,7,8-PeCDF

200307R1_13

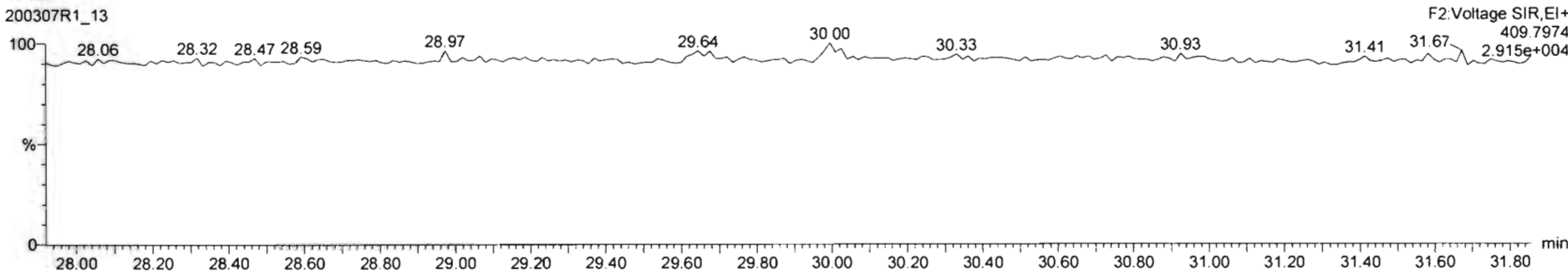


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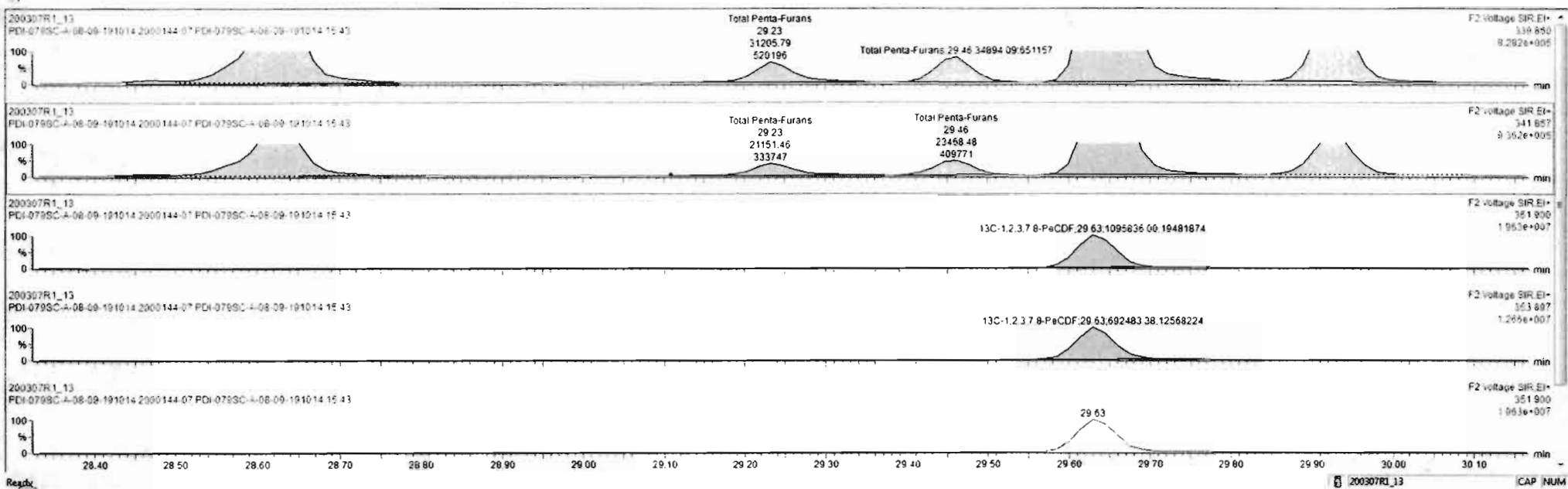
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200307R1_13



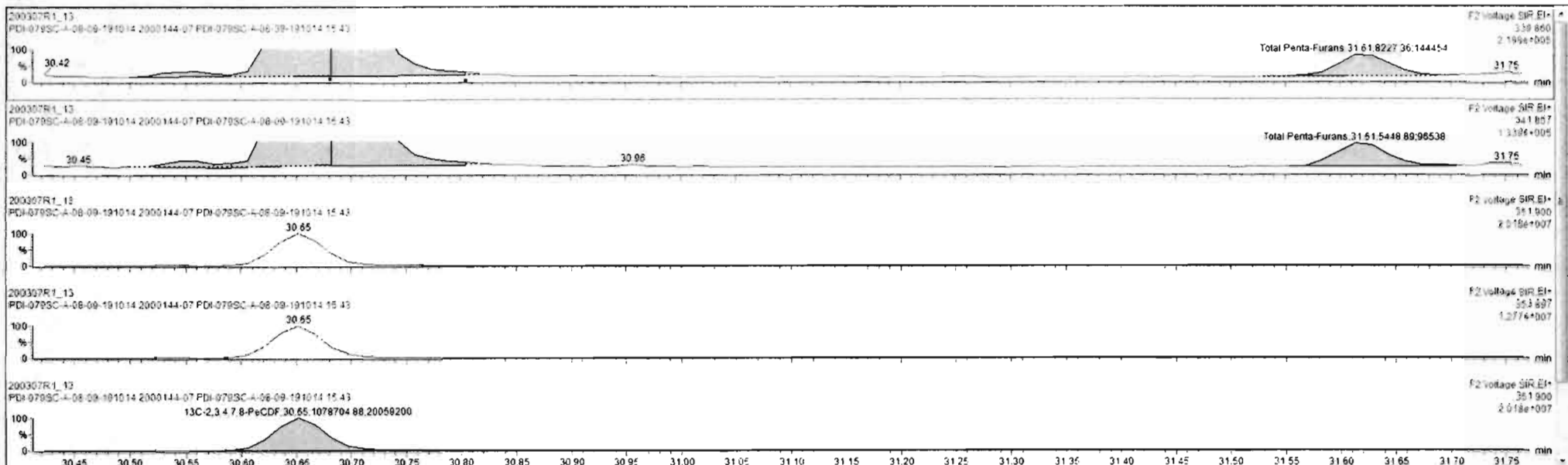
#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans				0.96	10.036			168		0.148	168
46	Total Hexa-Furans				1.09	10.036			157		0.129	157
47	Total Hepta-Furans				1.05	10.036			106		0.210	106
48	PFK1											

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Penta-Furans	28.62	1.851e5	1.147e5	1.61	NO	35.106	35.106
2	Total Penta-Furans	29.23	3.121e4	2.115e4	1.48	NO	6.1296	6.1296
3	Total Penta-Furans	29.46	3.489e4	2.347e4	1.49	NO	6.8327	6.8327
4	1,2,3,7,8-PeCDF	29.65	3.425e5	2.228e5	1.54	NO	65.656	65.656
5	Total Penta-Furans	29.92	1.058e5	6.600e4	1.56	NO	20.349	20.349
6	Total Penta-Furans	30.42	4.539e2	3.299e2	1.50	NO	0.096445	0.096445
7	Total Penta-Furans	30.56	1.857e3	9.081e2	2.04	YES	0.27109	0.00000
8	2,3,4,7,8-PeCDF	30.67	1.812e5	1.131e5	1.60	NO	33.206	33.206
9	Total Penta-Furans	31.61	6.327e3	5.449e3	1.53	NO	1.6127	1.6127
10	Total Penta-Furans	31.75	1.715e3	7.365e2	2.33	YES	0.21967	0.00000



Name	Resp	RA	n/y	RFI	wt%vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.96	10.036						
46 Total Hexa-Furans				1.09	10.036						
47 Total Hepta-Furans				1.05	10.036						
48 PFK1											

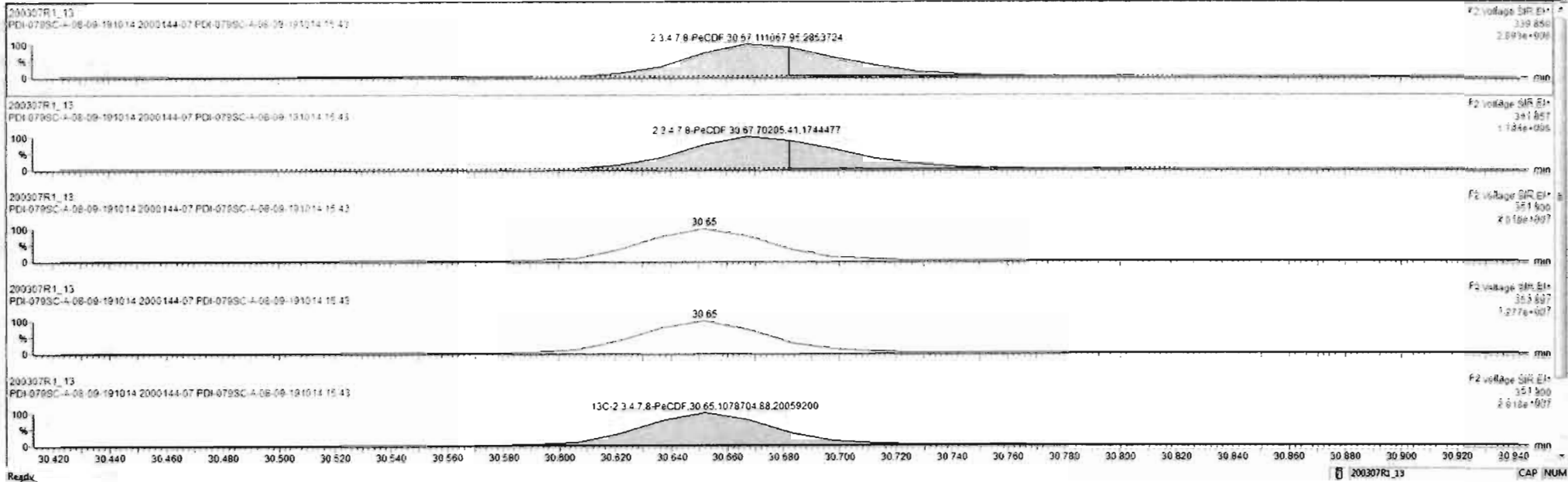
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.62	1.851e5	1.147e5	1.61	NO		
2 Total Penta-Furans	29.23	3.121e4	2.115e4	1.48	NO		
3 Total Penta-Furans	29.46	3.489e4	2.347e4	1.49	NO		
4 1,2,3,7,8-PeCDF	29.65	3.425e5	2.228e5	1.54	NO		
5 Total Penta-Furans	29.92	1.058e5	6.800e4	1.56	NO		
6 Total Penta-Furans	30.56	1.857e3	1.368e3	1.26	NO		
7 2,3,4,7,8-PeCDF	30.67	1.111e5	7.021e4	1.58	NO		
8 Total Penta-Furans	30.68	7.014e4	4.306e4	1.63	NO		
9 Total Penta-Furans	31.61	6.227e3	5.449e3	1.51	NO		



Custom Reporting: Select reports to generate 200307R1_13 CAP NUM

Name	Resp	RA	nly	RRF	wtdval	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.96	10.036						
46 Total Hexa-Furans				1.09	10.036						
47 Total Hepta-Furans				1.05	10.036						
48 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	CyC.
1 Total Penta-Furans	28.62	1.851e5	1.147e5	1.61	NO		
2 Total Penta-Furans	29.23	3.121e4	2.115e4	1.48	NO		
3 Total Penta-Furans	29.46	3.489e4	2.347e4	1.49	NO		
4 1,2,3,7,8-PeCDF	29.65	3.425e5	2.228e5	1.54	NO		
5 Total Penta-Furans	29.92	1.058e5	6.600e4	1.56	NO		
6 Total Penta-Furans	30.56	1.857e3	1.368e3	1.36	NO		
7 2,3,4,7,8-PeCDF	30.67	1.111e5	7.021e4	1.56	NO		
8 Total Penta-Furans	30.68	7.014e4	4.308e4	1.63	NO		
9 Total Penta-Furans	31.61	8.227e3	5.449e3	1.51	NO		



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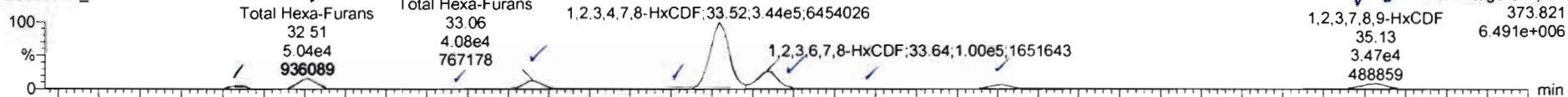
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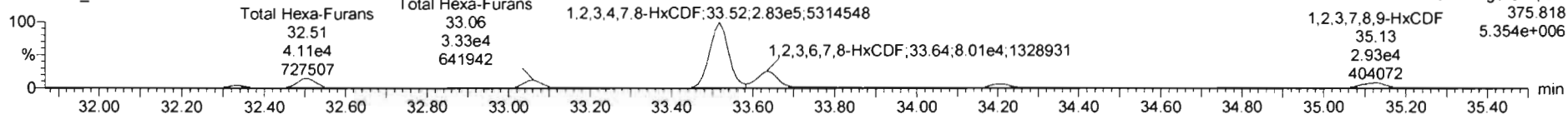
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1,2,3,4,7,8-HxCDF

200307R1_13

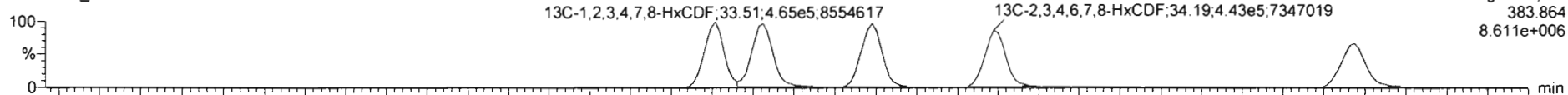


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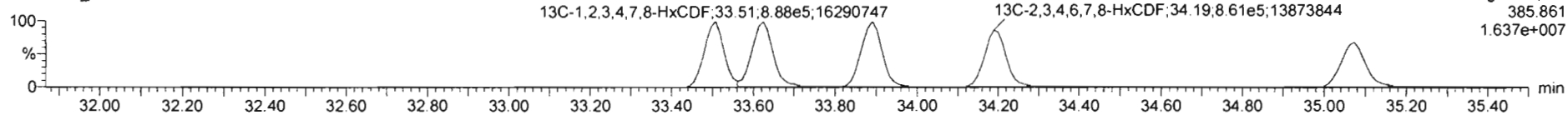


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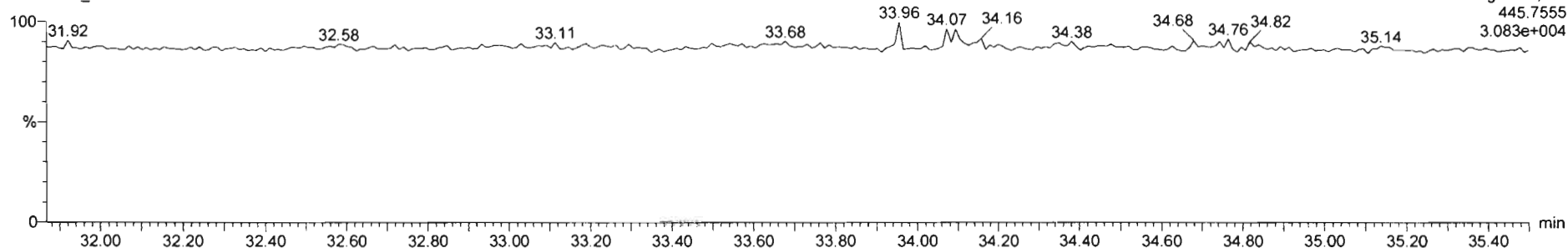


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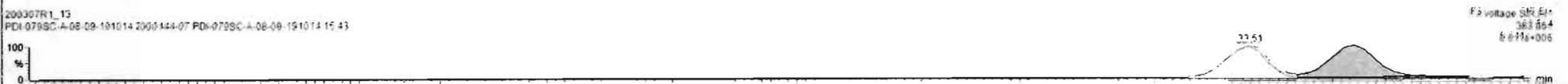
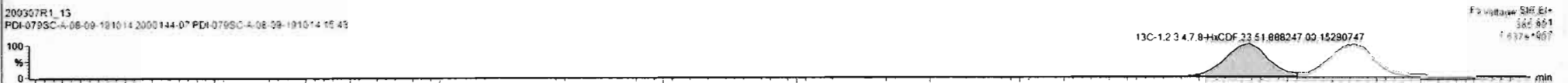
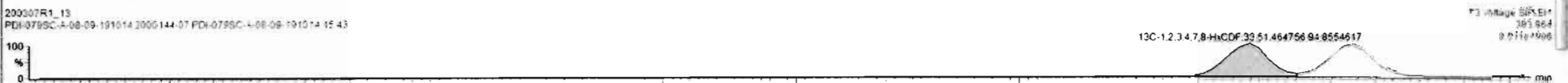
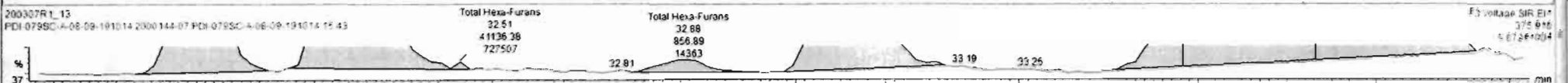
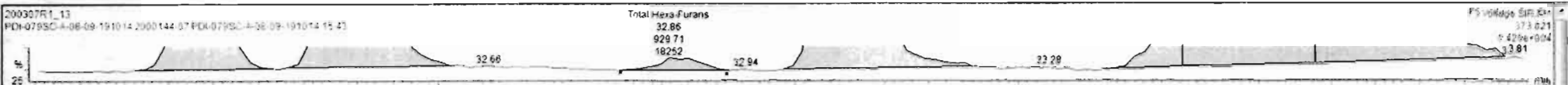
DPE3

200307R1_13



Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.96	10.036						
46 Total Hexa-Furans				1.09	10.036						
47 Total Hepta-Furans				1.05	10.036						
48 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Hexa-Furans	32.34	1.272e4	1.054e4	1.21	NO		
2 Total Hexa-Furans	32.51	5.042e4	4.114e4	1.23	NO		
3 Total Hexa-Furans	32.86	5.267e2	5.569e2	1.08	NO		
4 Total Hexa-Furans	33.06	4.079e4	7.328e4	1.23	NO		
5 Total Hexa-Furans	33.42	2.294e3	1.923e3	1.19	NO		
6 1,2,3,4,7,8-HxCDF	33.52	3.442e5	2.828e5	1.22	NO		
7 1,2,3,6,7,8-HxCDF	33.64	1.003e5	8.008e4	1.25	NO		
8 Total Hexa-Furans	33.90	1.551e3	1.018e3	1.53	YES		
9 2,3,4,6,7,8-HxCDF	34.21	2.231e4	1.809e4	1.23	NO		
10 1,2,3,7,8,9-HxCDF	35.13	3.474e4	2.930e4	1.19	NO		



Custom Reporting: Select reports to generate

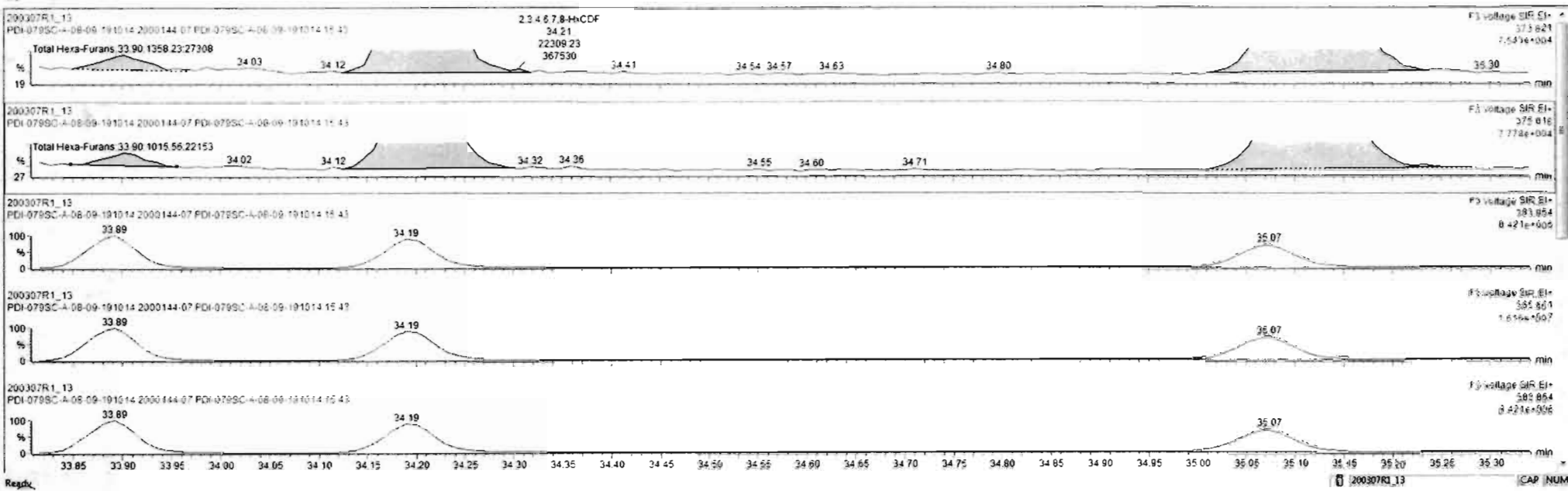
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200307R1_13 - 2000144-07 PDI-079SC-A-08-09-191014 15 43 - PDI-079SC-A-08-09-191014

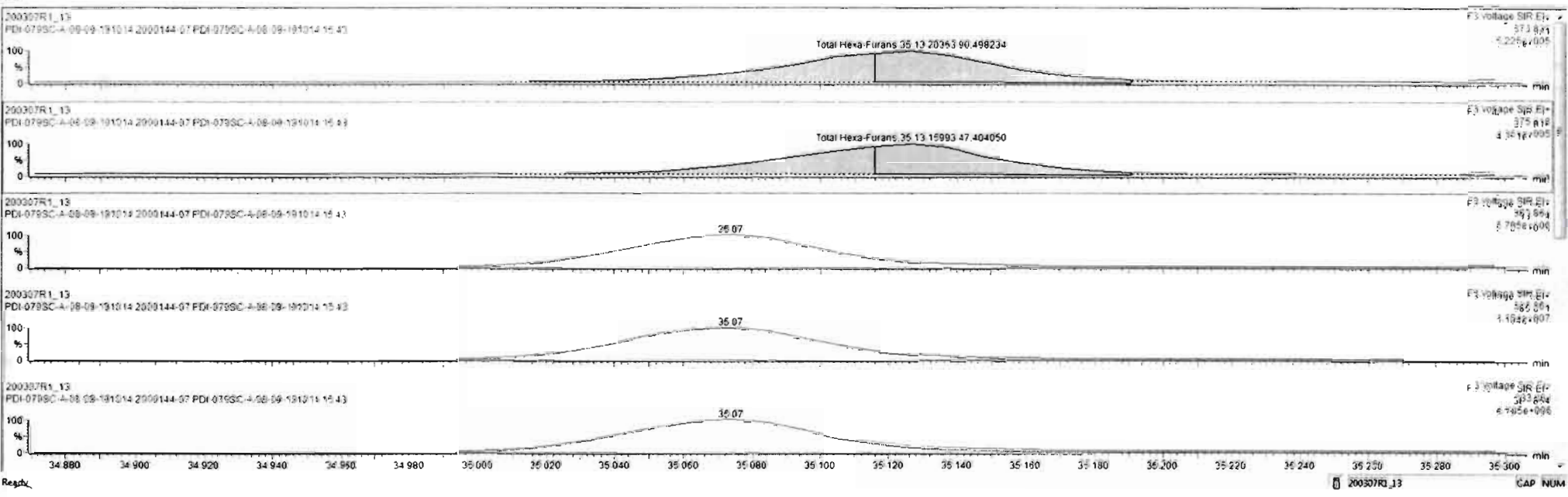
#	Name	Resp	RA	n/y	RFI	wt/vol	RT	PRT	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans				0.96	10.036			170		0.148	170
46	Total Hexa-Furans				1.09	10.036			157		0.129	157
47	Total Hepta-Furans				1.05	10.036			106		0.210	106
48	PFK1											

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Hexa-Furans	32.34	1.272e4	1.054e4	1.21	NO	3.2259	3.2259
2	Total Hexa-Furans	32.51	5.042e4	4.114e4	1.23	NO	12.697	12.697
3	Total Hexa-Furans	32.66	9.297e2	8.569e2	1.08	NO	0.24775	0.24775
4	Total Hexa-Furans	33.06	4.079e4	3.328e4	1.23	NO	10.272	10.272
5	Total Hexa-Furans	33.42	2.294e3	1.523e3	1.19	NO	0.58487	0.58487
6	1,2,3,4,7,8-HxCDF	33.52	3.442e5	2.828e5	1.22	NO	88.971	88.971
7	1,2,3,6,7,8-HxCDF	33.64	1.003e5	8.098e4	1.25	NO	24.279	24.279
8	Total Hexa-Furans	33.90	1.358e3	1.016e3	1.34	NO	0.32918	0.32918
9	2,3,4,6,7,8-HxCDF	34.21	2.231e4	1.809e4	1.23	NO	5.6575	5.6575
10	1,2,3,7,8,9-HxCDF	35.13	3.474e4	2.898e4	1.20	NO	10.797	10.797



Name	Resp	RA	n/y	SRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.96	13.036			170		0.148	170
46 Total Hexa-Furans				1.09	10.036			156		0.129	156
47 Total Hepta-Furans				1.05	12.036			106		0.210	106
48 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.34	1.272e4	1.054e4	1.21	NO	3.2259	3.2259
2 Total Hexa-Furans	32.51	5.042e4	4.114e4	1.23	NO	12.697	12.697
3 Total Hexa-Furans	32.66	9.297e2	8.569e2	1.08	NO	0.24775	0.24775
4 Total Hexa-Furans	33.06	4.079e4	3.328e4	1.23	NO	10.272	10.272
5 Total Hexa-Furans	33.42	2.294e3	1.923e3	1.19	NO	0.58487	0.58487
6 1,2,3,4,7,8-HxCDF	33.52	3.442e5	2.828e5	1.22	NO	86.971	86.971
7 1,2,3,6,7,8-HxCDF	33.64	1.003e5	8.008e4	1.25	NO	24.279	24.279
8 Total Hexa-Furans	33.90	1.358e3	1.016e3	1.24	NO	0.32918	0.32918
9 2,3,4,6,7,8-HxCDF	34.21	2.231e4	1.809e4	1.23	NO	5.6575	5.6575
10 1,2,3,7,8,9-HxCDF	35.12	1.556e4	1.281e4	1.21	NO	4.8670	4.8670
11 Total Hexa-Furans	35.13	2.036e4	1.599e4	1.27	NO	5.0418	5.0418

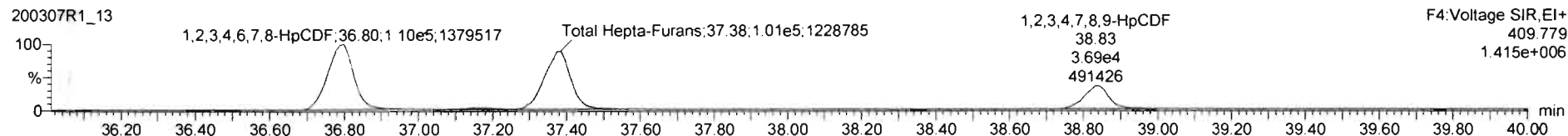
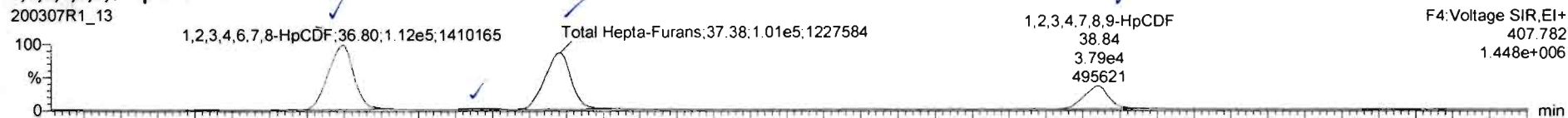


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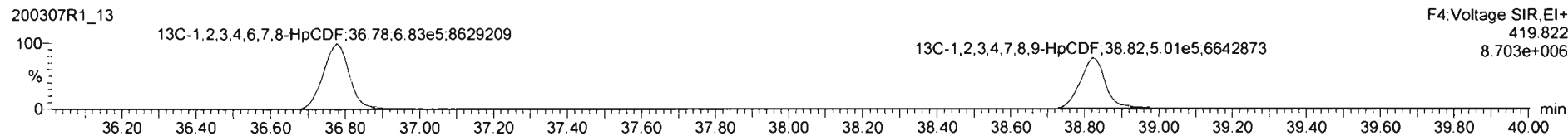
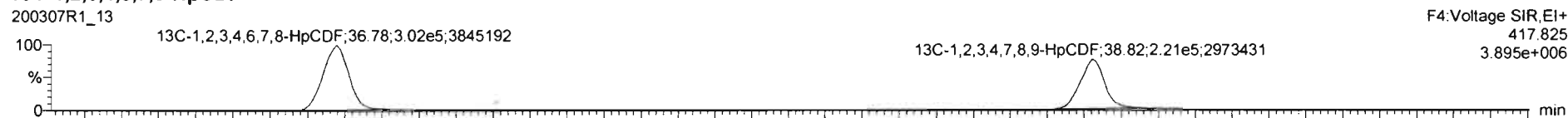
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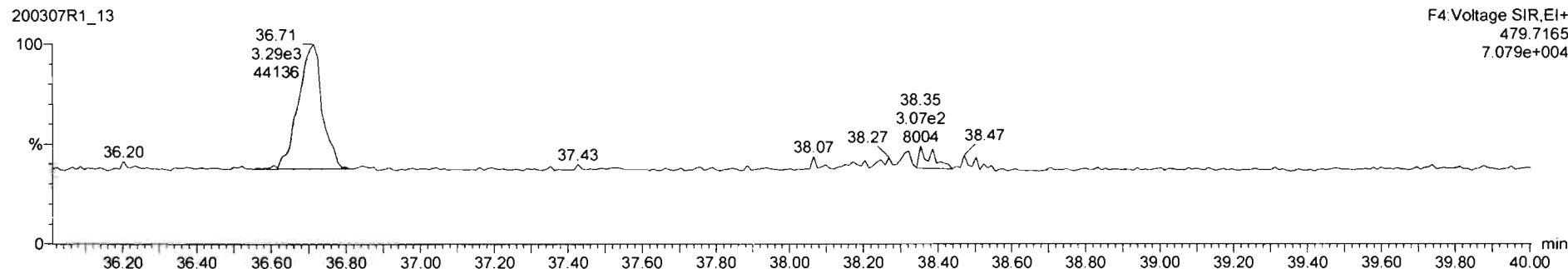
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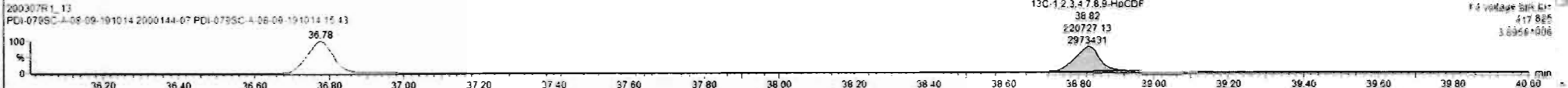


DPE4



Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.96	10.036			170		0.148	170
46 Total Hexa-Furans				1.29	10.036			156		0.128	156
47 Total Hepta-Furans				1.05	10.036			106		0.210	106
48 PPK1											

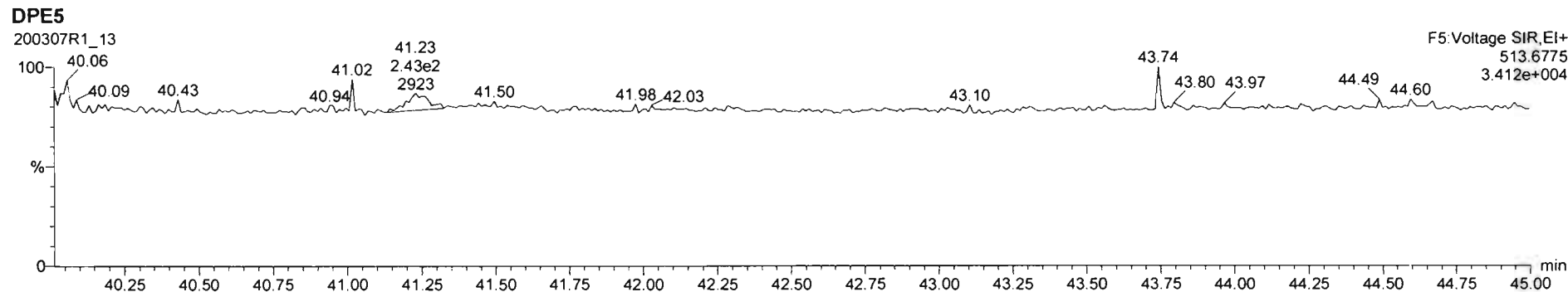
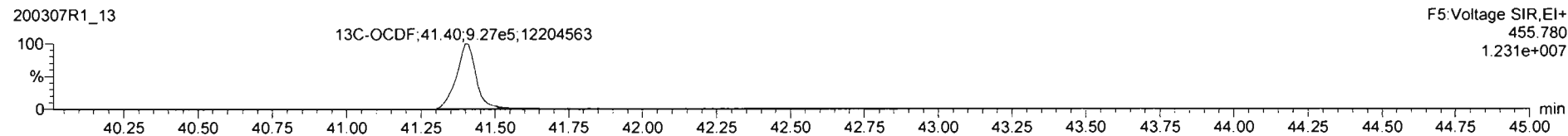
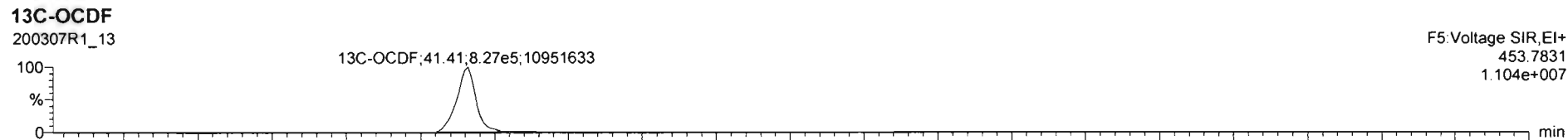
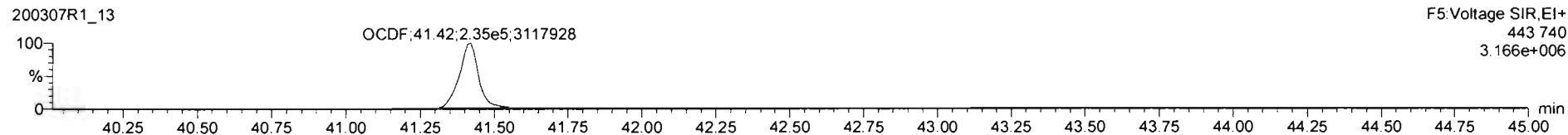
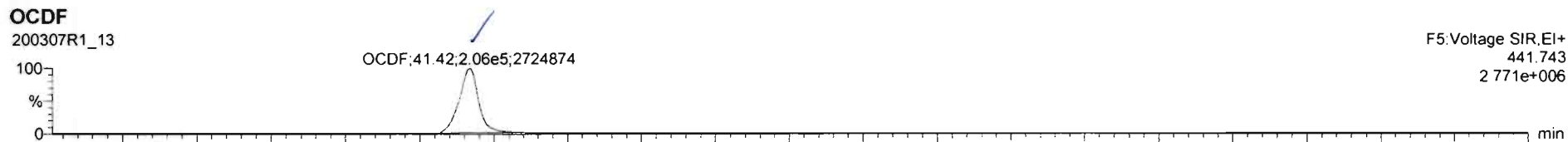
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	36.80	1.116e5	1.104e5	1.01	NO	42.835	42.835
2 Total Hepta-Furans	37.17	2.142e3	2.125e3	1.01	NO	0.95060	0.95060
3 Total Hepta-Furans	37.38	1.010e5	1.010e5	1.00	NO	45.006	45.006
4 1,2,3,4,7,8,9-HpCDF	38.84	3.795e4	3.694e4	1.03	NO	17.100	17.100



Dataset: Untitled

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

Name: 200307R1_13, Date: 07-Mar-2020, Time: 19:13:23, ID: 2000144-07 PDI-079SC-A-08-09-191014 15.43, Description: PDI-079SC-A-08-09-191014



Dataset: Untitled

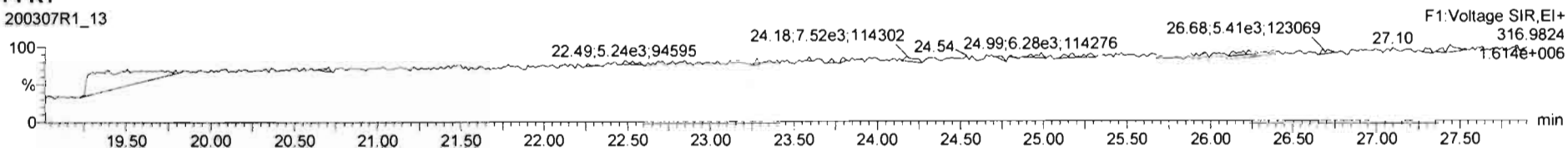
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Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

Name: 200307R1_13, Date: 07-Mar-2020, Time: 19:13:23, ID: 2000144-07 PDI-079SC-A-08-09-191014 15.43, Description: PDI-079SC-A-08-09-191014

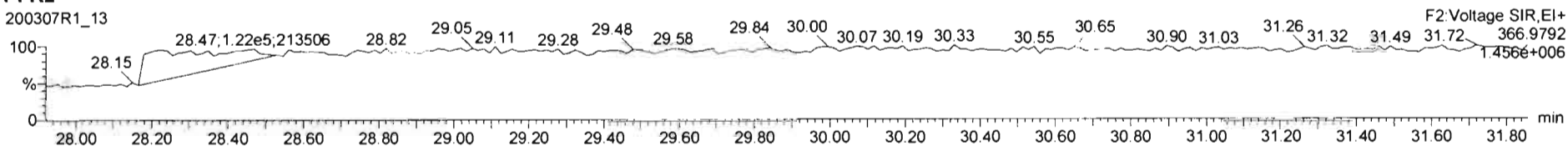
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200307R1_13



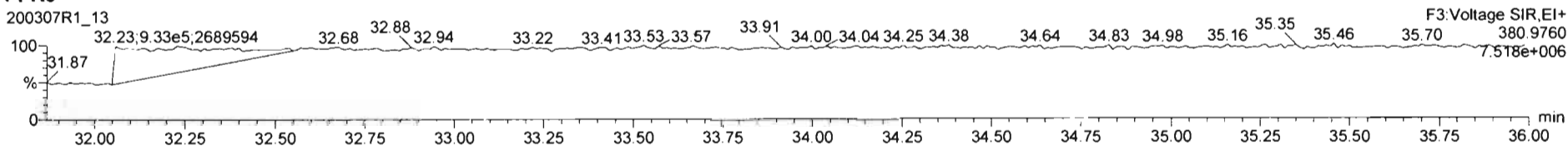
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200307R1_13



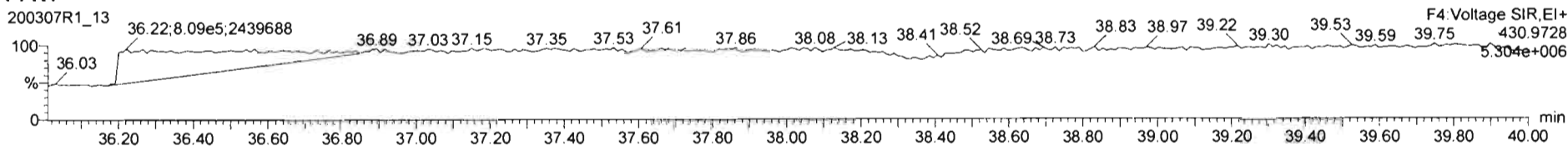
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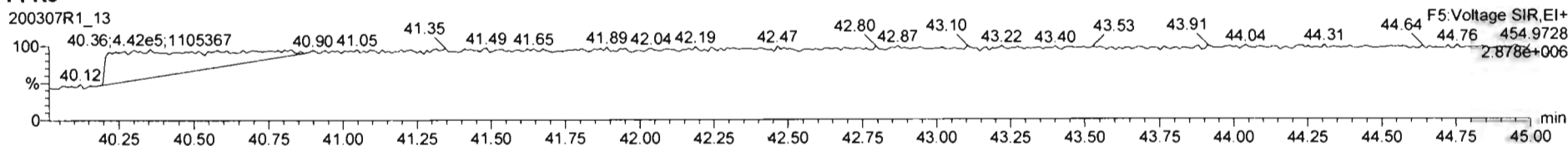
PFK4

200307R1_13



PFK5

200307R1_13



Dataset: U:\VG12.PRO\Results\200307R1\200307R1-14.qld

Last Altered: Tuesday, March 24, 2020 10:37:42 AM Pacific Daylight Time

Printed: Tuesday, March 24, 2020 10:39:35 AM Pacific Daylight Time

BL 03/24/2020

C1 03/26/2020

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

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

Name: 200307R1_14, Date: 07-Mar-2020, Time: 20:00:47, ID: 2000144-08 PDI-079SC-A-09-10-191014 12.23, Description: PDI-079SC-A-09-10-191014, Task: ST200307R1_1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD			NO	0.983	10.009					0.0715	
2	1,2,3,7,8-PeCDD	3.09e2	0.70	NO	0.921	10.009	31.00	1.001	0.057692		0.0630	0.0577
3	1,2,3,4,7,8-HxCDD			NO	1.13	10.009					0.0782	
4	1,2,3,6,7,8-HxCDD	6.02e2	1.20	NO	0.984	10.009	34.49	1.001	0.11411		0.0815	0.114
5	1,2,3,7,8,9-HxCDD	8.38e2	1.11	NO	0.967	10.009	34.74	1.000	0.16962		0.0898	0.170
6	1,2,3,4,6,7,8-HpCDD	1.02e4	1.05	NO	1.01	10.009	38.23	1.001	2.3944		0.188	2.39
7	OCDD	7.34e4	0.97	NO	1.05	10.009	41.24	1.001	18.895		0.204	18.9
8	2,3,7,8-TCDF	2.22e3	0.74	NO	0.915	10.009	24.82	1.001	0.24922		0.0609	0.249
9	1,2,3,7,8-PeCDF	3.70e3	1.56	NO	0.959	10.009	29.64	1.000	0.44787		0.0451	0.448
10	2,3,4,7,8-PeCDF	1.69e3	1.57	NO	1.00	10.009	30.68	1.001	0.19941		0.0411	0.199
11	1,2,3,4,7,8-HxCDF	8.32e3	1.25	NO	1.04	10.009	33.52	1.000	1.2881		0.0560	1.29
12	1,2,3,6,7,8-HxCDF	3.30e3	1.19	NO	1.01	10.009	33.65	1.001	0.46764		0.0544	0.468
13	2,3,4,6,7,8-HxCDF	9.11e2	1.41	NO	1.09	10.009	34.22	1.001	0.13035		0.0578	0.130
14	1,2,3,7,8,9-HxCDF	7.78e2	1.17	NO	1.03	10.009	35.08	1.000	0.13909		0.0830	0.139
15	1,2,3,4,6,7,8-HpCDF	6.53e3	1.04	NO	1.05	10.009	36.80	1.001	1.2872		0.0983	1.29
16	1,2,3,4,7,8,9-HpCDF	3.37e3	0.96	NO	1.21	10.009	38.84	1.001	0.77281		0.113	0.773
17	OCDF	3.09e4	0.92	NO	0.947	10.009	41.41	1.000	7.2114		0.112	7.21
18	13C-2,3,7,8-TCDD	1.37e6	0.77	NO	1.18	10.009	25.78	1.029	201.02	101	0.221	
19	13C-1,2,3,7,8-PeCDD	1.16e6	0.63	NO	0.864	10.009	30.97	1.236	233.70	117	0.262	
20	13C-1,2,3,4,7,8-HxCDD	9.04e5	1.25	NO	0.754	10.009	34.36	1.014	188.34	94.3	0.261	
21	13C-1,2,3,6,7,8-HxCDD	1.07e6	1.27	NO	0.925	10.009	34.47	1.017	181.70	90.9	0.213	
22	13C-1,2,3,7,8,9-HxCDD	1.02e6	1.23	NO	0.829	10.009	34.73	1.025	193.22	96.7	0.237	
23	13C-1,2,3,4,6,7,8-HpCDD	8.44e5	1.06	NO	0.598	10.009	38.18	1.127	221.74	111	0.419	
24	13C-OCDD	1.48e6	0.88	NO	0.571	10.009	41.22	1.216	406.44	102	0.366	
25	13C-2,3,7,8-TCDF	1.94e6	0.78	NO	1.09	10.009	24.81	0.990	201.86	101	0.278	
26	13C-1,2,3,7,8-PeCDF	1.72e6	1.58	NO	0.876	10.009	29.65	1.183	222.11	111	0.453	
27	13C-2,3,4,7,8-PeCDF	1.68e6	1.58	NO	0.844	10.009	30.65	1.223	226.07	113	0.470	
28	13C-1,2,3,4,7,8-HxCDF	1.24e6	0.52	NO	1.00	10.009	33.51	0.989	195.22	97.7	0.365	
29	13C-1,2,3,6,7,8-HxCDF	1.39e6	0.52	NO	1.12	10.009	33.63	0.992	195.58	97.9	0.327	
30	13C-2,3,4,6,7,8-HxCDF	1.28e6	0.52	NO	1.04	10.009	34.20	1.009	194.11	97.1	0.353	

Dataset: U:\VG12.PRO\Results\200307R1\200307R1-14.qld

Last Altered: Tuesday, March 24, 2020 10:37:42 AM Pacific Daylight Time
Printed: Tuesday, March 24, 2020 10:39:35 AM Pacific Daylight Time

Name: 200307R1_14, Date: 07-Mar-2020, Time: 20:00:47, ID: 2000144-08 PDI-079SC-A-09-10-191014 12.23, Description: PDI-079SC-A-09-10-191014, Task: ST200307R1_1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
31	13C-1,2,3,7,8,9-HxCDF	1.09e6	0.53	NO	0.873	10.009	35.07	1.035	195.98	98.1	0.418	
32	13C-1,2,3,4,6,7,8-HpCDF	9.68e5	0.44	NO	0.771	10.009	36.78	1.085	197.27	98.7	0.470	
33	13C-1,2,3,4,7,8,9-HpCDF	7.19e5	0.44	NO	0.519	10.009	38.82	1.146	217.61	109	0.698	
34	13C-OCDF	1.81e6	0.86	NO	0.696	10.009	41.41	1.222	408.06	102	0.343	
35	37Cl-2,3,7,8-TCDD	5.43e5			1.17	10.009	25.80	1.029	80.320	100	0.0585	
36	13C-1,2,3,4-TCDD	1.15e6	0.80	NO	1.00	10.009	25.06	1.000	199.83	100	0.262	
37	13C-1,2,3,4-TCDF	1.76e6	0.80	NO	1.00	10.009	23.21	1.000	199.83	100	0.302	
38	13C-1,2,3,4,6,9-HxCDF	1.27e6	0.52	NO	1.00	10.009	33.89	1.000	199.83	100	0.365	
39	Total Tetra-Dioxins				0.983	10.009			0.063034		0.0715	0.260
40	Total Penta-Dioxins				0.921	10.009			0.39504		0.0630	0.509
41	Total Hexa-Dioxins				0.984	10.009			2.0046		0.0863	2.00
42	Total Hepta-Dioxins				1.01	10.009			5.6084		0.188	5.61
43	Total Tetra-Furans				0.915	10.009			0.73438		0.0609	1.01
44	1st Func. Penta-Furans				0.959	10.009			0.13277		0.0296	0.133
45	Total Penta-Furans				0.959	10.009			1.0465		0.0441	1.35
46	Total Hexa-Furans				1.09	10.009			2.1935		0.0590	2.57
47	Total Hepta-Furans				1.05	10.009			3.4620		0.112	3.46

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Dataset: U:\VG12.PRO\Results\200307R1\200307R1-14.qld

Last Altered: Tuesday, March 24, 2020 10:37:42 AM Pacific Daylight Time

Printed: Tuesday, March 24, 2020 10:39:35 AM Pacific Daylight Time

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

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

Name: 200307R1_14, Date: 07-Mar-2020, Time: 20:00:47, ID: 2000144-08 PDI-079SC-A-09-10-191014 12.23, Description: PDI-079SC-A-09-10-191014, Task: ST200307R1_1

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.47	3.795e3	2.455e3	1.985e2	2.268e2	0.88	NO	4.253e2	0.063034	0.063034	0.0715
2	Total Tetra-Dioxins	23.42	6.559e3	1.147e4	5.784e2	9.141e2	0.63	YES	0.000e0	0.00000	0.19705	0.0715

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.71	4.806e3	6.850e3	3.217e2	4.649e2	0.69	NO	7.866e2	0.14666	0.14666	0.0630
2	Total Penta-Dioxins	29.20	6.411e3	9.822e3	3.928e2	6.300e2	0.62	NO	1.023e3	0.19069	0.19069	0.0630
3	Total Penta-Dioxins	30.18	3.188e3	5.709e3	2.359e2	5.143e2	0.46	YES	0.000e0	0.00000	0.11379	0.0630
4	1,2,3,7,8-PeCDD	31.00	2.885e3	5.153e3	1.276e2	1.818e2	0.70	NO	3.094e2	0.057692	0.057692	0.0630

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.90	5.127e4	4.057e4	2.735e3	2.385e3	1.15	NO	5.120e3	1.0413	1.0413	0.0863
2	Total Hexa-Dioxins	33.45	6.531e3	4.494e3	3.174e2	2.323e2	1.37	NO	5.497e2	0.1118C	0.1118C	0.0863
3	Total Hexa-Dioxins	33.70	2.609e4	2.061e4	1.511e3	1.280e3	1.18	NO	2.791e3	0.56774	0.56774	0.0863
4	1,2,3,6,7,8-HxCDD	34.49	6.279e3	5.489e3	3.280e2	2.737e2	1.20	NO	6.016e2	0.11411	0.11411	0.0815
5	1,2,3,7,8,9-HxCDD	34.74	8.410e3	8.483e3	4.403e2	3.973e2	1.11	NO	8.376e2	0.16962	0.16962	0.0898

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.18	8.737e4	7.491e4	6.948e3	6.713e3	1.04	NO	1.366e4	3.2139	3.2139	0.188
2	1,2,3,4,6,7,8-HpCDD	38.23	5.188e4	5.202e4	5.220e3	4.958e3	1.05	NO	1.018e4	2.3944	2.3944	0.188

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Dataset: U:\VG12.PRO\Results\200307R1\200307R1-14.qld

Last Altered: Tuesday, March 24, 2020 10:37:42 AM Pacific Daylight Time

Printed: Tuesday, March 24, 2020 10:39:35 AM Pacific Daylight Time

Name: 200307R1_14, Date: 07-Mar-2020, Time: 20:00:47, ID: 2000144-08 PDI-079SC-A-09-10-191014 12.23, Description: PDI-079SC-A-09-10-191014, Task: ST200307R1_1

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.56	1.477e4	1.983e4	1.300e3	1.725e3	0.75	NO	3.024e3	0.33997	0.33997	0.0609
2	Total Tetra-Furans	21.48	3.631e3	3.960e3	2.494e2	3.125e2	0.80	NO	5.618e2	0.063158	0.063158	0.0609
3	Total Tetra-Furans	23.79	7.649e3	1.244e4	8.397e2	1.333e3	0.63	YES	0.000e0	0.00000	0.21697	0.0609
4	2,3,7,8-TCDF	24.82	1.152e4	1.772e4	9.446e2	1.272e3	0.74	NO	2.217e3	0.24922	0.24922	0.0609
5	Total Tetra-Furans	26.54	4.733e3	5.190e3	3.095e2	4.203e2	0.74	NO	7.298e2	0.082036	0.082036	0.0609
6	Total Tetra-Furans	26.71	4.590e3	8.376e3	2.331e2	4.463e2	0.52	YES	0.000e0	0.00000	0.060243	0.0609

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	26.96	1.232e4	6.391e3	6.903e2	3.944e2	1.75	NO	1.085e3	0.13277	0.13277	0.0296

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.62	1.721e4	1.431e4	1.443e3	1.056e3	1.37	NO	2.500e3	0.30594	0.30594	0.0441
2	Total Penta-Furans	29.25	9.359e3	5.677e3	4.676e2	3.688e2	1.27	YES	0.000e0	0.00000	0.094157	0.0441
3	Total Penta-Furans	29.48	5.447e3	4.383e3	2.777e2	2.590e2	1.07	YES	0.000e0	0.00000	0.055921	0.0441
4	1,2,3,7,8-PeCDF	29.64	3.876e4	2.537e4	2.254e3	1.443e3	1.56	NO	3.696e3	0.44787	0.44787	0.0451
5	Total Penta-Furans	29.93	1.340e4	4.065e3	7.108e2	2.624e2	2.71	YES	0.000e0	0.00000	0.081916	0.0441
6	Total Penta-Furans	30.03	7.050e3	6.144e3	4.509e2	3.115e2	1.45	NO	7.624e2	0.093319	0.093319	0.0441
7	2,3,4,7,8-PeCDF	30.68	2.362e4	1.678e4	1.032e3	6.550e2	1.57	NO	1.687e3	0.19941	0.19941	0.0411
8	Total Penta-Furans	30.70	1.193e4	8.984e3	3.435e2	2.726e2	1.26	YES	0.000e0	0.00000	0.069175	0.0441

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Dataset: U:\VG12.PRO\Results\200307R1\200307R1-14.qld

Last Altered: Tuesday, March 24, 2020 10:37:42 AM Pacific Daylight Time

Printed: Tuesday, March 24, 2020 10:39:35 AM Pacific Daylight Time

Name: 200307R1_14, Date: 07-Mar-2020, Time: 20:00:47, ID: 2000144-08 PDI-079SC-A-09-10-191014 12.23, Description: PDI-079SC-A-09-10-191014, Task: ST200307R1_1

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.34	5.001e3	7.007e3	1.937e2	2.445e2	0.79	YES	0.000e0	0.00000	0.051186	0.0590
2	Total Hexa-Furans	32.52	1.463e4	1.240e4	6.628e2	6.780e2	0.98	YES	0.000e0	0.00000	0.17519	0.0590
3	Total Hexa-Furans	33.07	1.133e4	1.248e4	6.018e2	5.486e2	1.10	NO	1.150e3	0.16832	0.16832	0.0590
4	1,2,3,4,7,8-HxCDF	33.52	8.659e4	6.428e4	4.625e3	3.692e3	1.25	NO	8.317e3	1.2881	1.2881	0.0560
5	1,2,3,6,7,8-HxCDF	33.65	3.309e4	2.228e4	1.792e3	1.505e3	1.19	NO	3.297e3	0.46764	0.46764	0.0544
6	2,3,4,6,7,8-HxCDF	34.22	9.493e3	6.787e3	5.329e2	3.782e2	1.41	NO	9.111e2	0.13035	0.13035	0.0578
7	1,2,3,7,8,9-HxCDF	35.08	9.542e3	7.989e3	4.190e2	3.594e2	1.17	NO	7.784e2	0.13909	0.13909	0.0830
8	Total Hexa-Furans	35.12	1.153e4	1.041e4	5.708e2	4.482e2	1.27	NO	0.000e0	0.00000	0.14911	0.0590

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.80	4.232e4	4.304e4	3.335e3	3.200e3	1.04	NO	6.535e3	1.2872	1.2872	0.0983
2	Total Hepta-Furans	37.38	4.034e4	3.597e4	3.167e3	3.037e3	1.04	NO	6.204e3	1.4020	1.4020	0.112
3	1,2,3,4,7,8,9-HpCDF	38.84	2.110e4	2.061e4	1.646e3	1.719e3	0.96	NO	3.365e3	0.77281	0.77281	0.113

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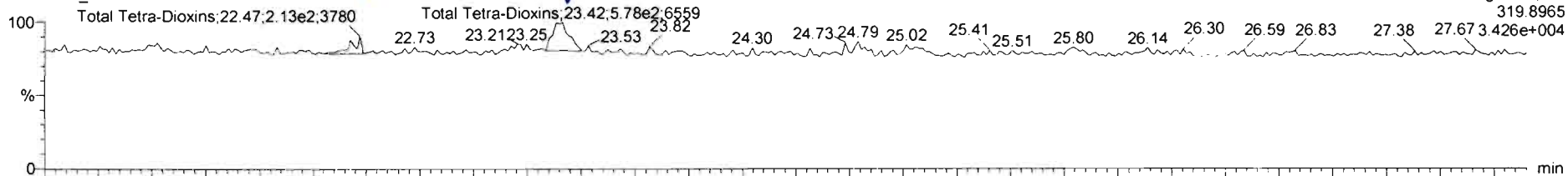
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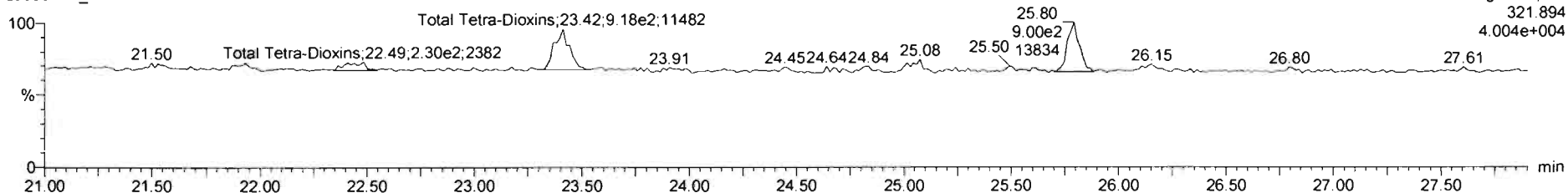
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2,3,7,8-TCDD

200307R1_14

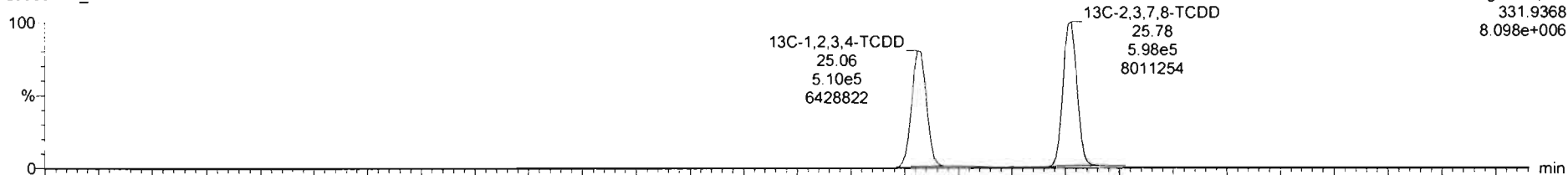


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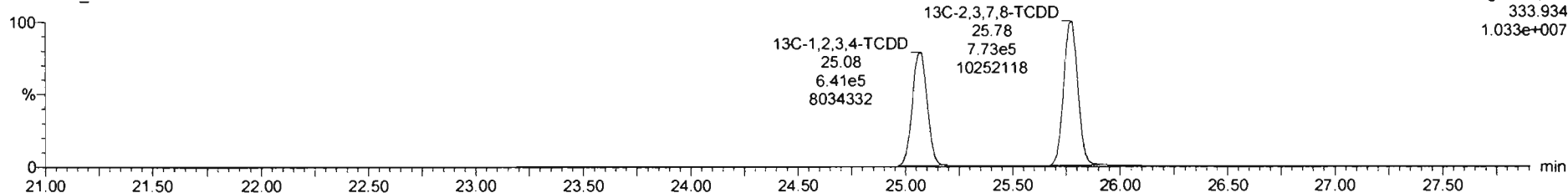


13C-2,3,7,8-TCDD

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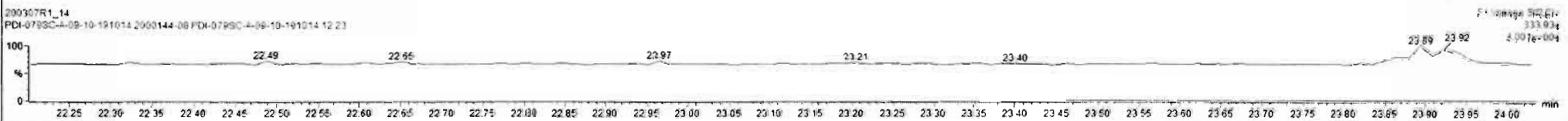
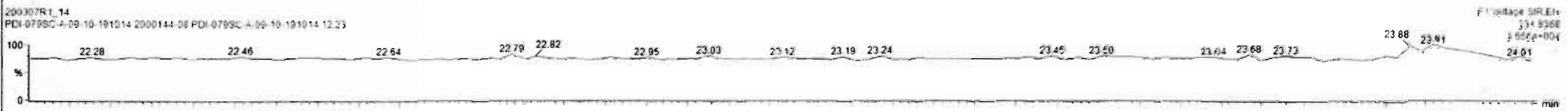
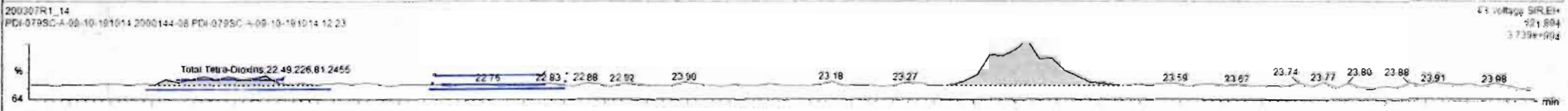
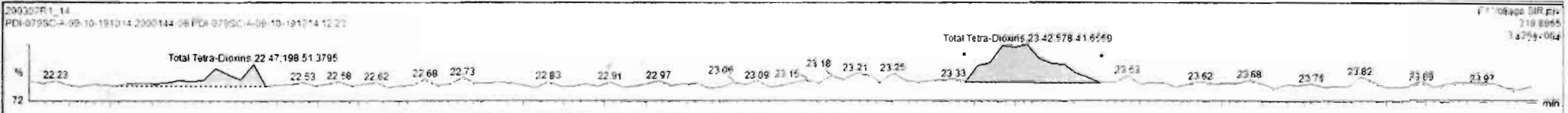


200307R1_14



Name	Resp	RA	ny	RRF	wtvol	RT	RRT	Conc.	%Rec	DL	EMPC
37 13C-1,2,3,4-TCDF	1.76e6	0.80	NO	1.00	10.009	23.21	1.000	200	100	0.302	
38 13C-1,2,3,4,6,9-HxCDF	1.27e6	0.52	NO	1.00	10.009	33.89	1.000	200	100	0.265	
39 Total Tetra-Dioxins				0.93	10.009			0.0630		0.0715	0.268
40 Total Penta-Dioxins				0.92	10.009			0.041		0.0630	0.485

Name	RT	m1 Resp	m2 Resp	RA	ny	EMPC	Conc.
1 Total Tetra-Dioxins	23.42	5.724e2	9.141e2	0.53	YES	0.19705	3.00900
2 Total Tetra-Dioxins	22.47	1.985e2	2.268e2	0.86	NO	0.063034	0.063034



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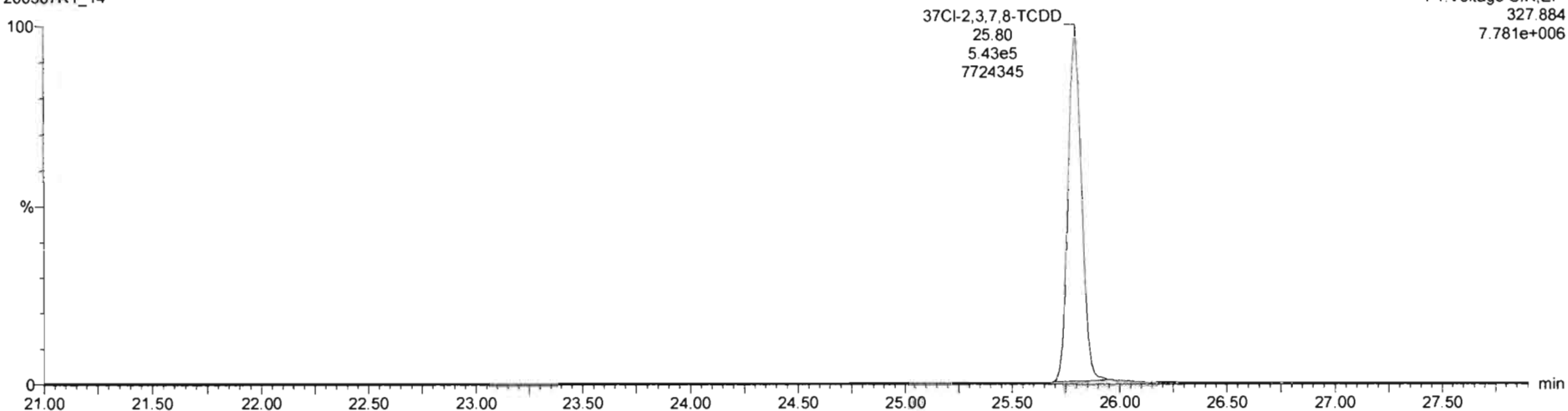
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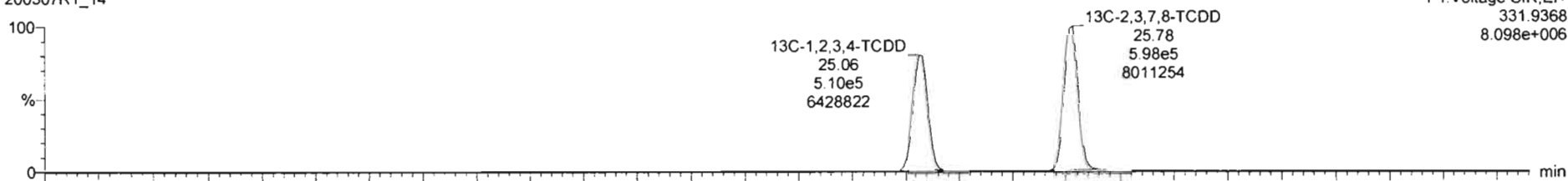
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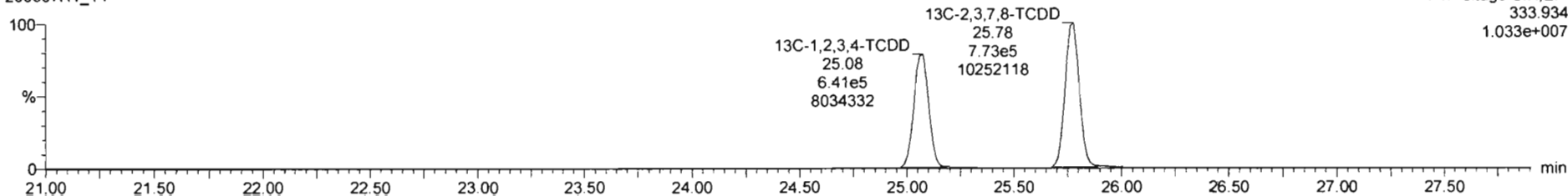


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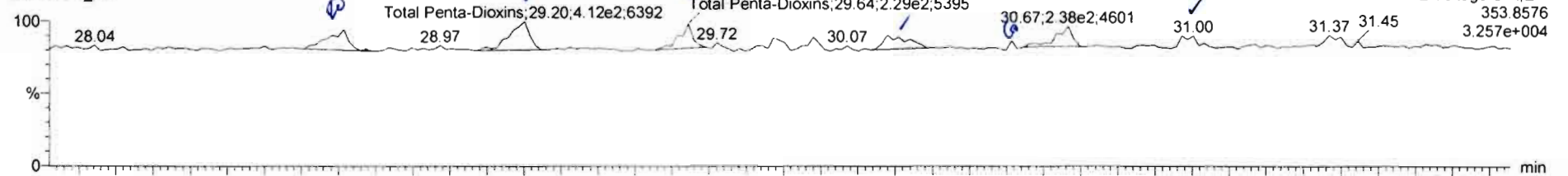
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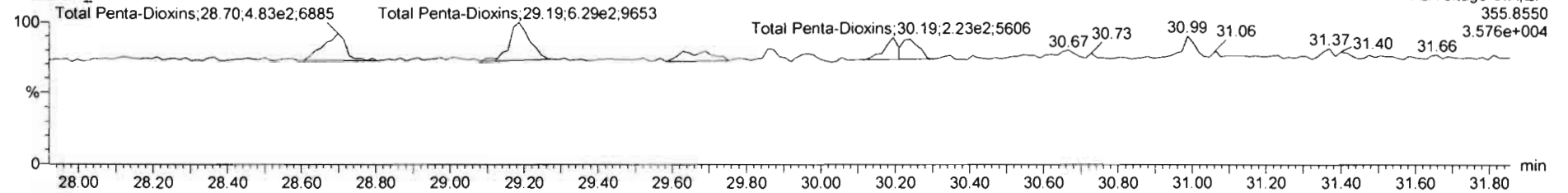
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1,2,3,7,8-PeCDD

200307R1_14

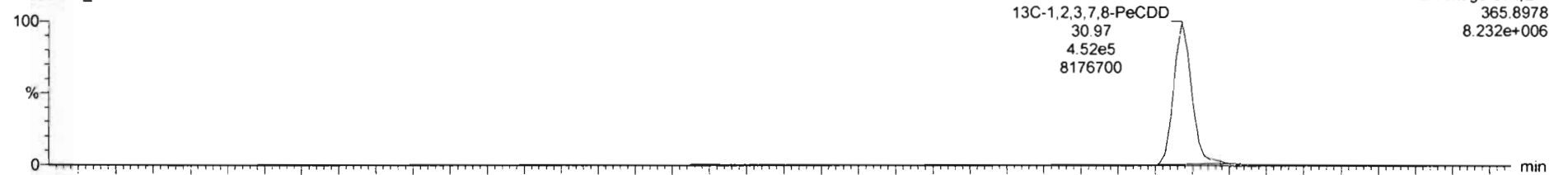


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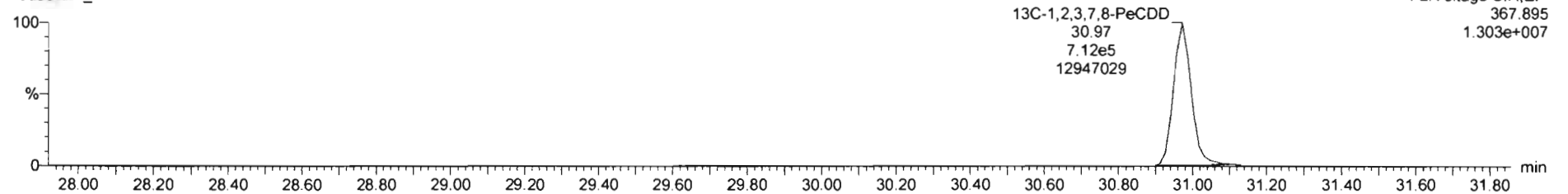


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200307R1_14



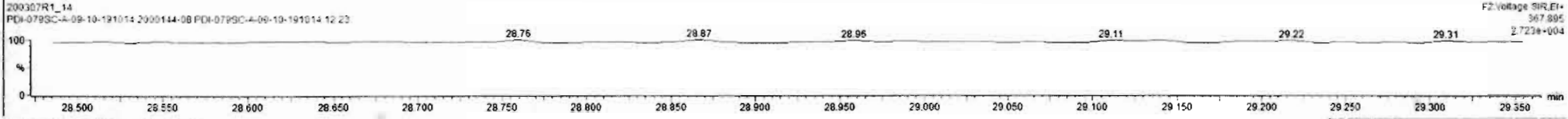
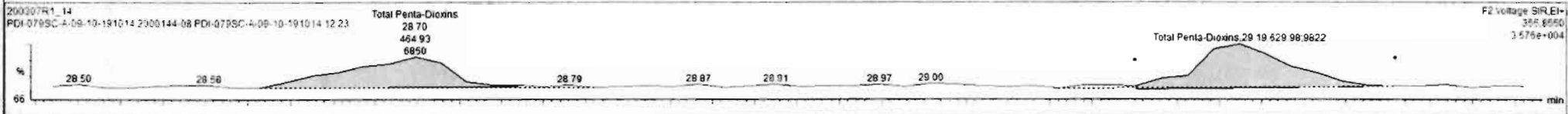
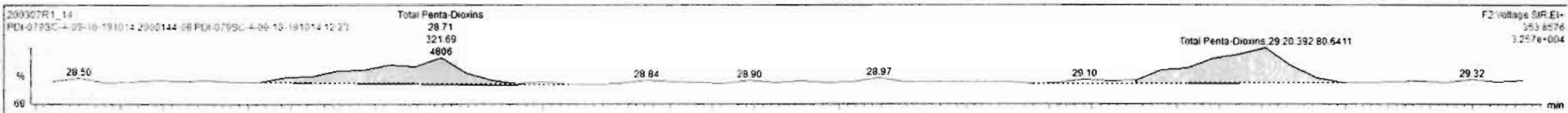
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200307R1_14 - 2000144-08 PDI-079SC-A-09-10-191014 12.23 - PDI-079SC-A-09-10-191014

Name	Resp	RA	n/y	RRF	w/w%	RT	RRT	Conc.	%Rec	DL	EMPC
37 13C-1,2,3,4-TCDF	1.76e6	0.80	NO	1.00	10.009	22.21	1.900	200	100	0.302	
38 13C-1,2,3,4,6,9-HxCDF	1.27e6	0.52	NO	1.00	10.009	23.89	1.000	200	100	0.365	
39 Total Tetra-Dioxins				0.98	10.009			0.0630		0.0715	0.260
40 Total Penta-Dioxins				0.92	10.000			0.337		0.0630	0.485

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	30.16	2.359e2	2.227e2	1.06	YES	0.067688	0.00000
2 Total Penta-Dioxins	29.20	3.528e2	6.300e2	0.62	NO	0.190269	0.19069
3 Total Penta-Dioxins	28.71	3.217e2	4.649e2	0.65	NO	0.14666	0.14666

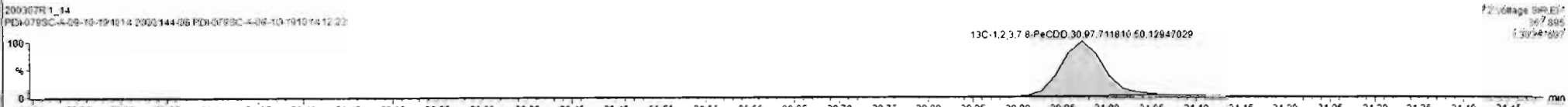
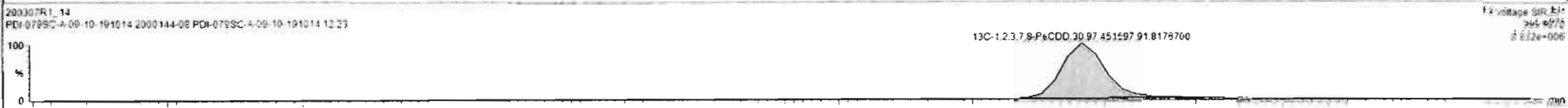
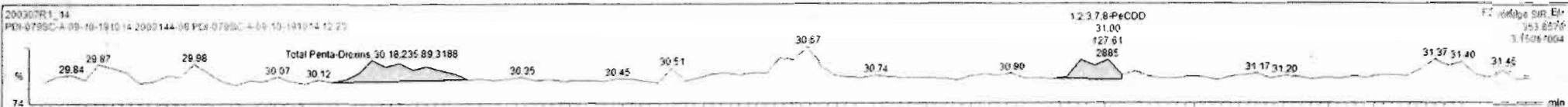


Custom Reporting: Select reports to generate

200307R1_14 CAP NUM

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
37 13C-1,2,3,4-TCDF	1.76e6	0.80	NO	1.00	10.009	23.21	1.000	200	100	0.302	
38 13C-1,2,3,4,6,9-HxCDF	1.27e6	0.52	NO	1.00	10.009	33.89	1.000	200	100	0.365	
39 Total Tetra-Dioxins				0.58	10.009			0.0630		0.0715	0.260
40 Total Penta-Dioxins				0.92	10.009			0.0630		0.0630	0.509

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	30.16	2.359e2	5.143e2	0.46	YES	0.11379	0.00000
2 Total Penta-Dioxins	29.20	3.528e2	6.300e2	0.62	NO	0.19069	0.19069
3 Total Penta-Dioxins	28.71	3.217e2	4.549e2	0.69	NO	0.14666	0.14666
4 1,2,3,7,8-PeCDD	31.00	1.276e2	1.818e2	0.70	NO	0.057692	0.057692



Custom Reporting: Select reports to generate

200307R1_14

CAP INUM

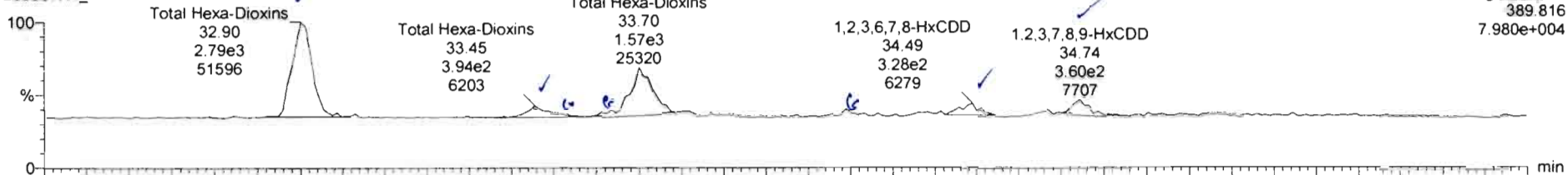
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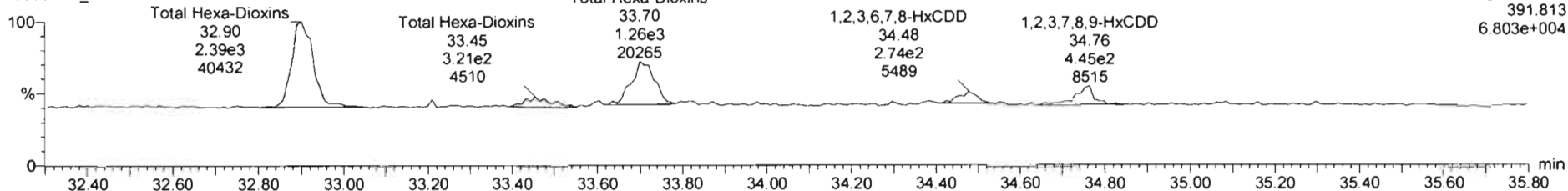
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1,2,3,4,7,8-HxCDD

200307R1_14

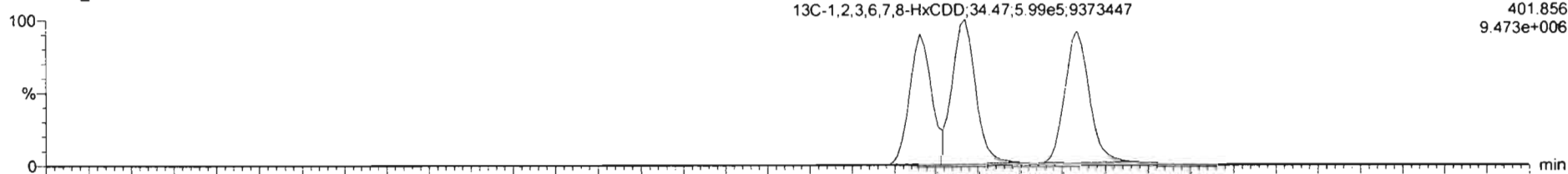


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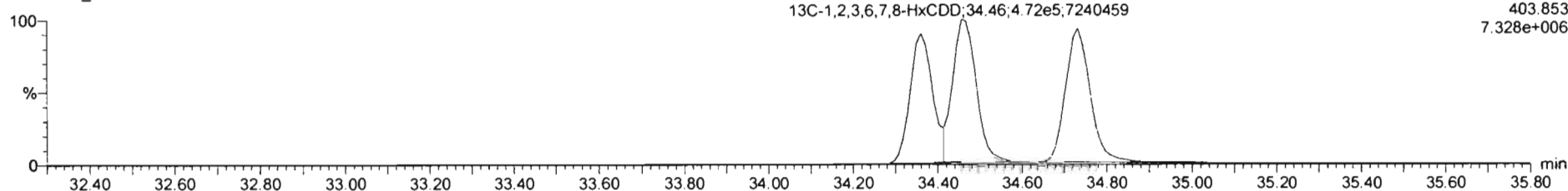


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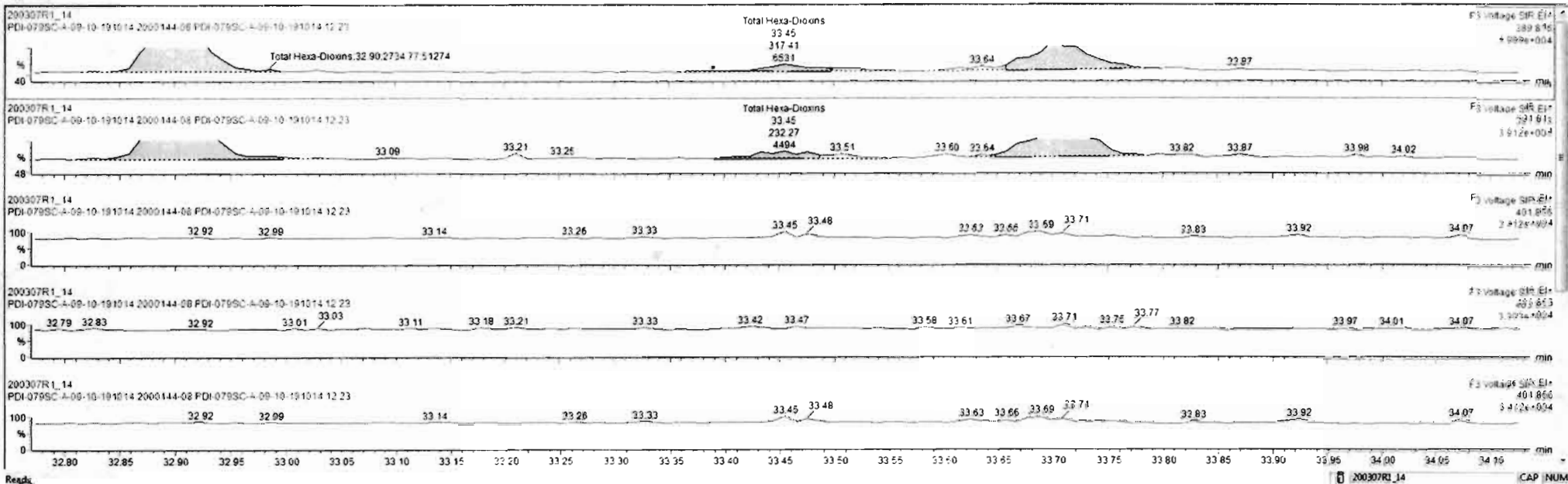
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200307R1_14 - 2000144-08 PDI-079SC-A-09 10-191014 12 23 - PDI-079SC-A-09 10-191014

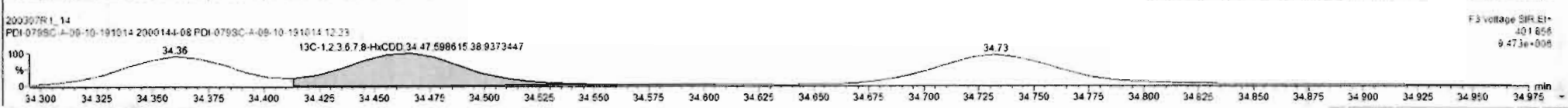
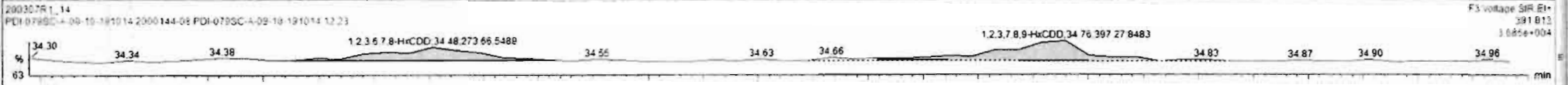
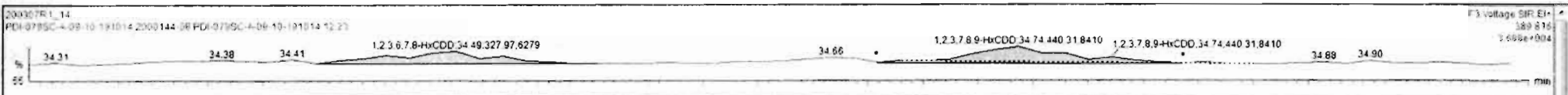
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.98	10.009			1.83		0.0863	1.97
42 Total Hepta-Dioxins				1.01	10.009			5.61		0.186	5.61
43 Total Tetra-Furans				0.52	10.009			0.469		0.0609	0.989
44 1st Func Penta-Furans				0.96	10.009			0.132		0.0296	0.132

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 1,2,3,7,8,9-HxCDD	34.74	3.603e2	4.451e2	0.81	ES	0.13181	0.00000
2 1,2,3,6,7,8-HxCDD	34.49	3.280e2	2.737e2	1.20	NO	0.11411	0.11411
3 Total Hexa-Dioxins	33.70	1.511e3	1.280e3	1.18	NO	0.56774	3.56774
4 Total Hexa-Dioxins	33.45	3.174e2	2.323e2	1.37	NO	0.11180	0.11180
5 Total Hexa-Dioxins	32.90	2.735e3	2.385e3	1.15	NO	1.0413	1.0413



#	Name	Resp	RA	n/y	RF	wt/wt	RT	RRT	Conc	%Rec	DL	EMPC
41	Total Hexa-Dioxins				0.98	10.009			2.00	0.0863	2.00	
42	Total Hepta-Dioxins				1.01	10.009			5.61	0.188	5.61	
43	Total Tetra-Furans				0.92	10.009			0.469	0.0609	0.569	
44	1st Func. Penta-Furans				0.96	10.009			0.132	0.0296	0.132	

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	Total Hexa-Dioxins	32.50	2.735e3	2.385e3	1.15	NO	1.0413	1.0413
2	Total Hexa-Dioxins	33.45	3.174e2	2.323e2	1.27	NO	3.11180	0.11180
3	Total Hexa-Dioxins	33.70	1.511e3	1.285e3	1.18	NO	0.56774	0.56774
4	1,2,3,6,7,8-HxCDD	34.48	3.280e2	2.737e2	1.20	NO	0.11411	0.11411
5	1,2,3,7,8,9-HxCDD	34.74	4.403e2	3.973e2	1.11	NO	0.16962	0.16962



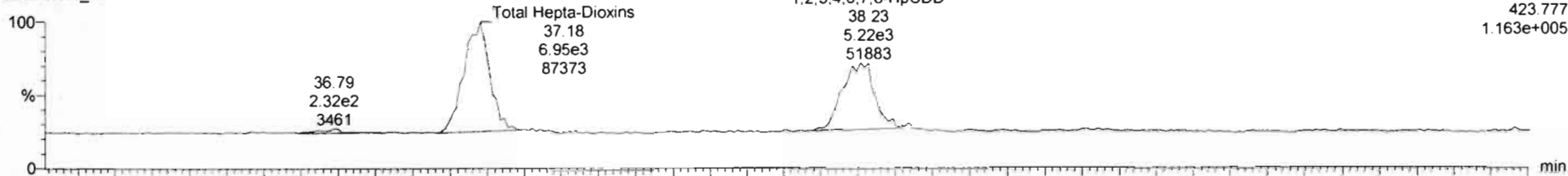
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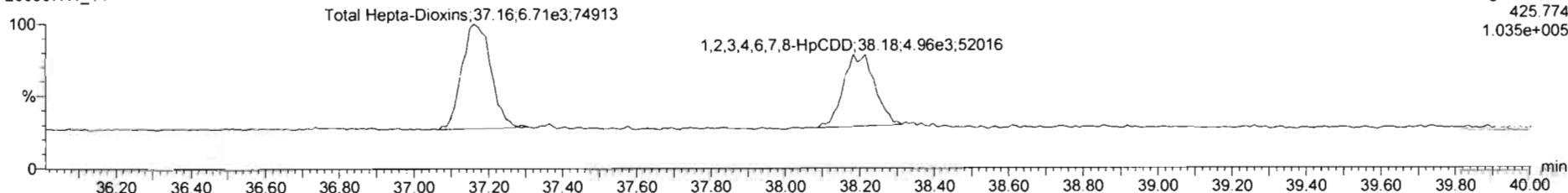
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1,2,3,4,6,7,8-HpCDD

200307R1_14

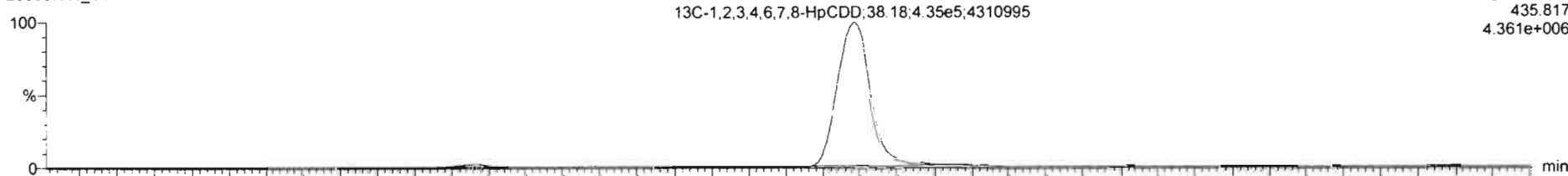


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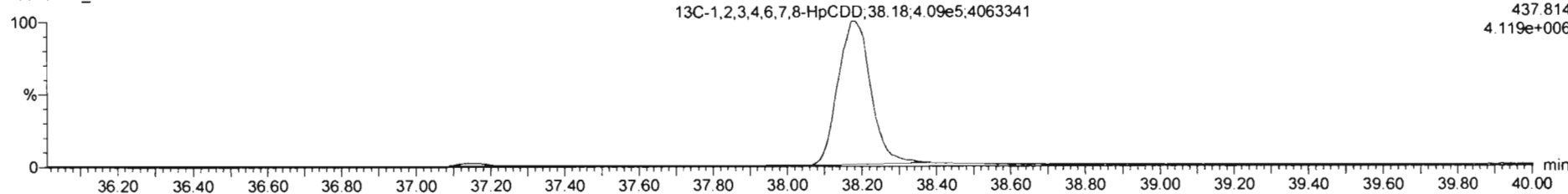


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200307R1_14



200307R1_14

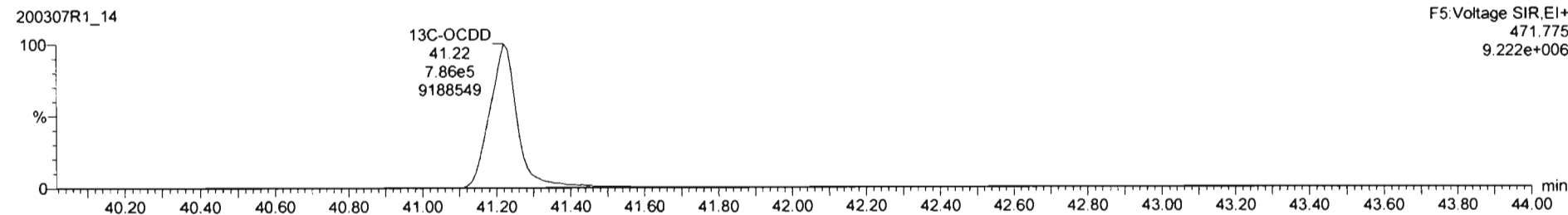
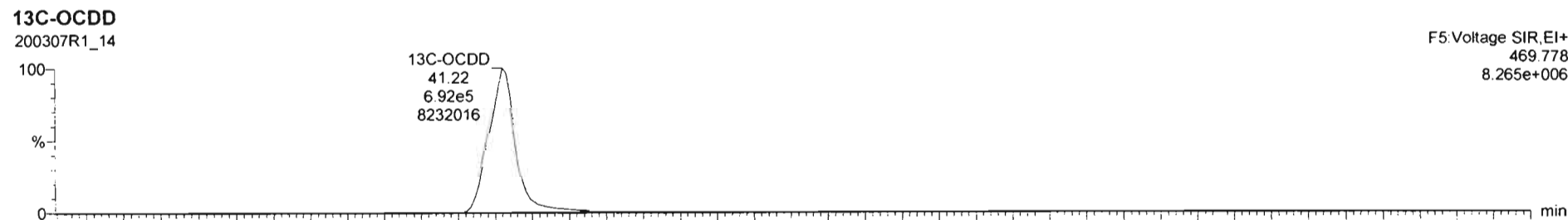
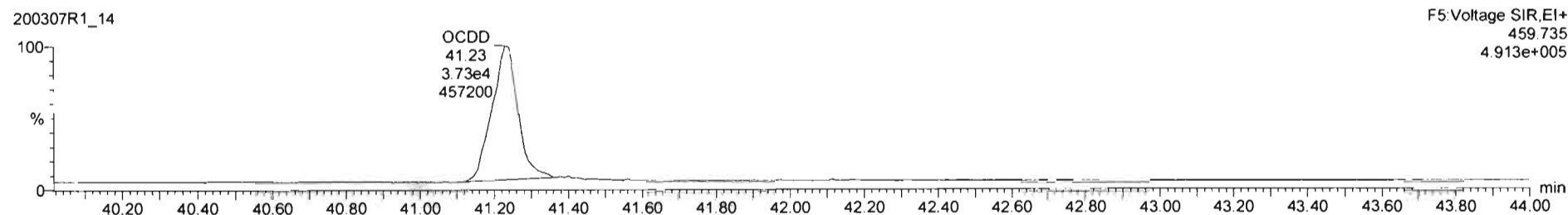
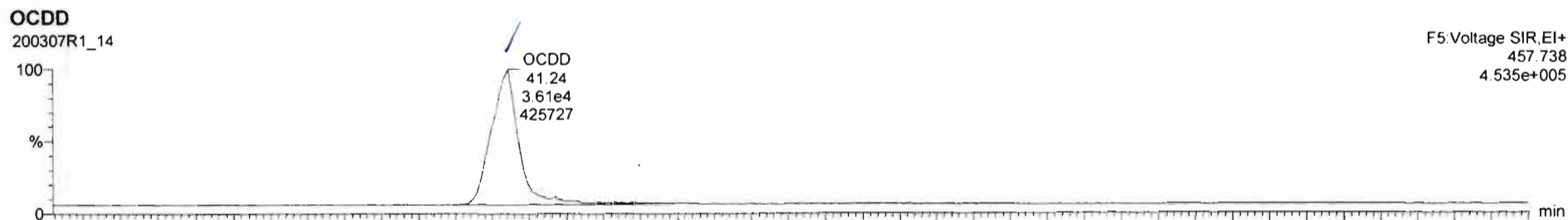


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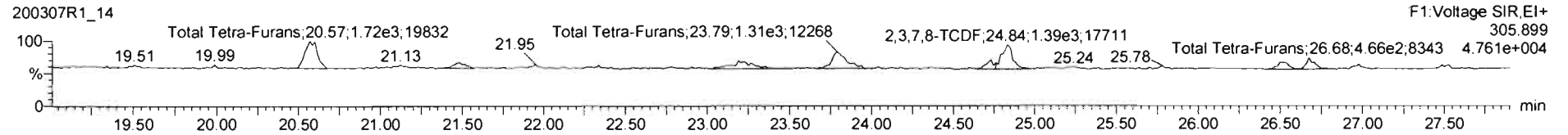
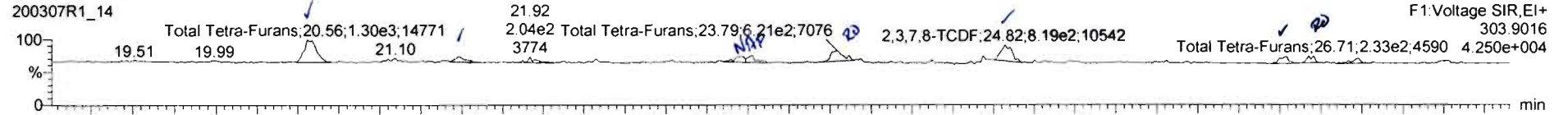
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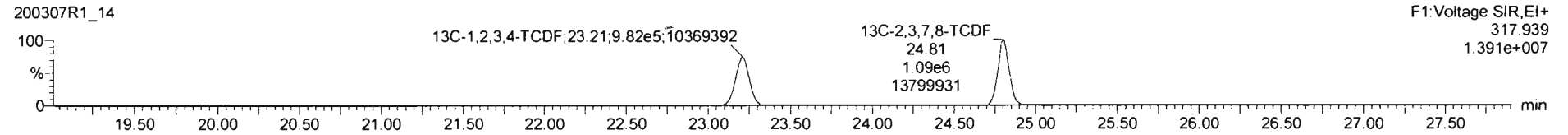
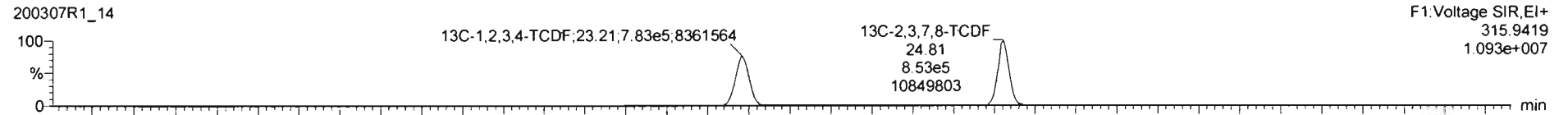
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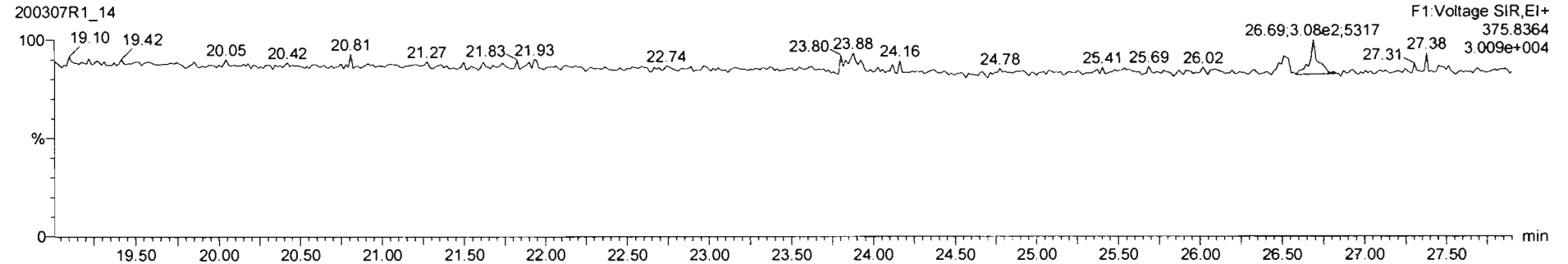
2,3,7,8-TCDF



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

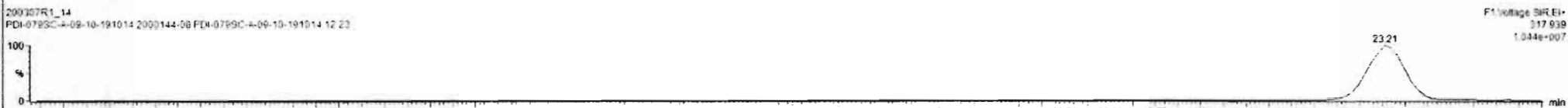
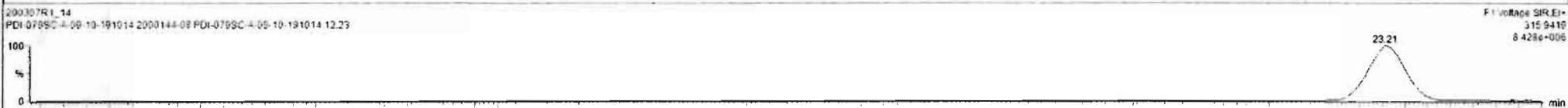
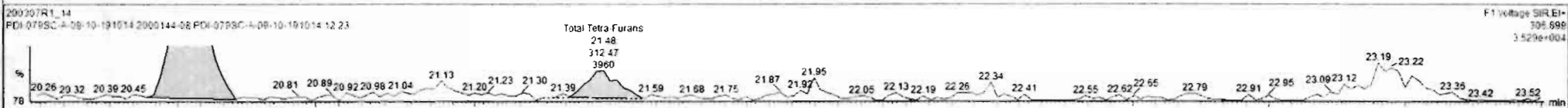
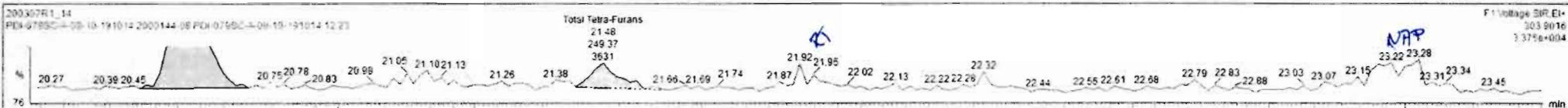


DPE1



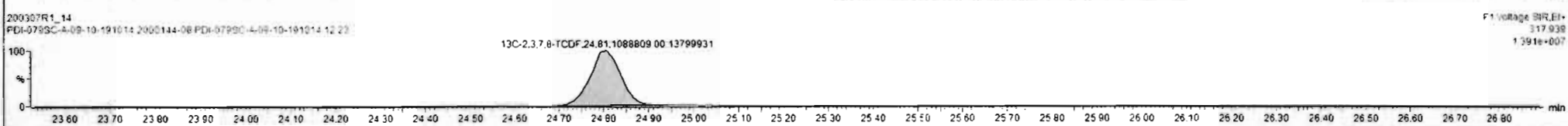
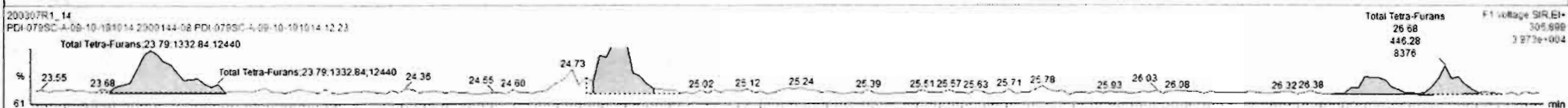
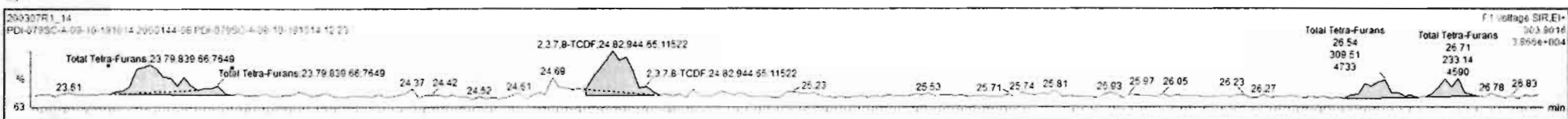
Name	Resp	RA	nly	RRF	wt/wt	RT	RRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.98	10.009			2.00	0.0883	2.00	
42 Total Hepta-Dioxins				1.01	10.009			5.61	0.188	5.61	
43 Total Tetra-Furans				0.92	10.009			0.465	0.0609	0.918	
44 1st Func. Penta-Furans				0.96	10.009			0.133	0.0296	0.133	

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Tetra-Furans	20.56	1.300e3	1.725e3	0.75	NO	0.33967	0.32997
2 Total Tetra-Furans	21.48	2.494e2	3.125e2	0.60	NO	0.063158	0.063158
3 Total Tetra-Furans	23.79	6.215e2	1.307e2	0.48	YES	0.16059	0.00000
4 2,3,7,8-TCDF	24.62	6.126e2	1.385e3	0.59	YES	0.21152	0.00000
5 Total Tetra-Furans	26.54	3.095e2	4.203e2	0.74	NO	0.082036	0.062036
6 Total Tetra-Furans	26.71	2.331e2	4.658e2	0.50	YES	0.066243	0.00000



Name	Resp	RA	n/y	RRF	wt/vol	RT	ART	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.98	10.009			2.00		0.0863	2.00
42 Total Hepta-Dioxins				1.01	10.005			5.61		0.186	5.61
43 Total Tetra-Furans				0.92	10.009			0.734		0.0609	1.01
44 1st Func. Penta-Furans				0.96	10.009			0.133		0.0296	0.133

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	20.56	1.300e3	1.725e3	0.75	NO	0.33997	0.33997
2 Total Tetra-Furans	21.48	2.494e2	3.125e2	0.80	NO	0.063158	0.063158
3 Total Tetra-Furans	23.75	6.397e2	1.333e3	0.63	YES	0.21697	0.00000
4 2,3,7,8-TCDF	24.62	9.446e2	1.272e3	0.74	NO	0.24922	0.24922
5 Total Tetra-Furans	26.54	3.095e2	4.207e2	0.74	NO	0.082036	0.082036
6 Total Tetra-Furans	26.71	2.331e2	4.460e2	0.52	YES	0.066243	0.00000



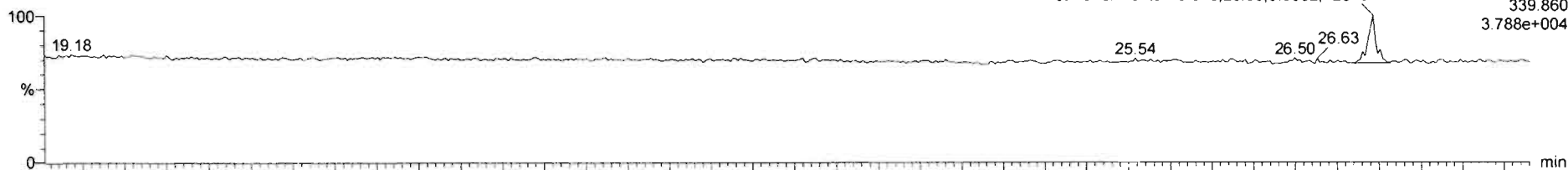
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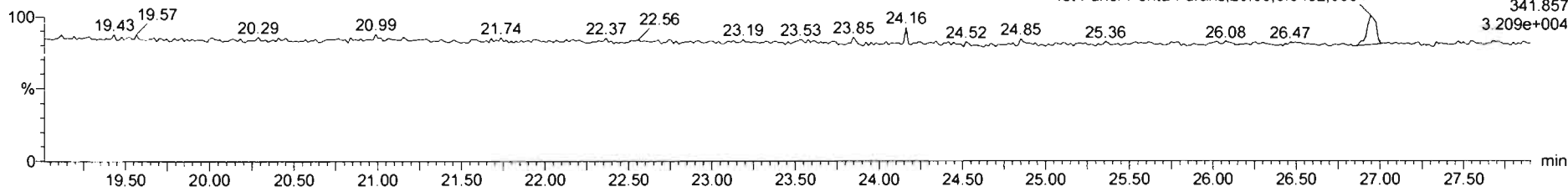
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1st Func. Penta-Furans

200307R1_14

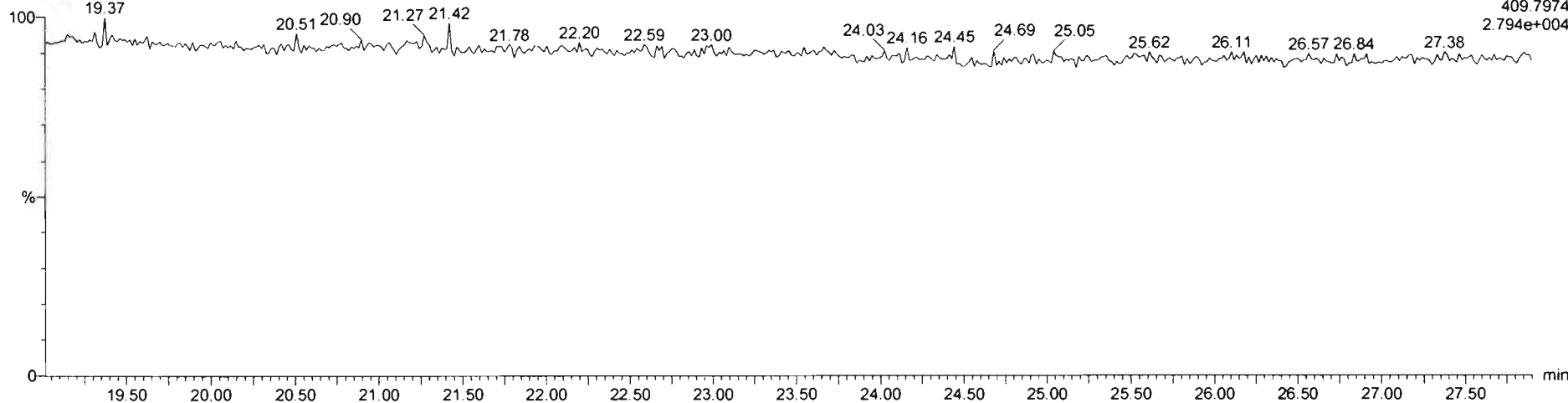


200307R1_14



DPE6

200307R1_14



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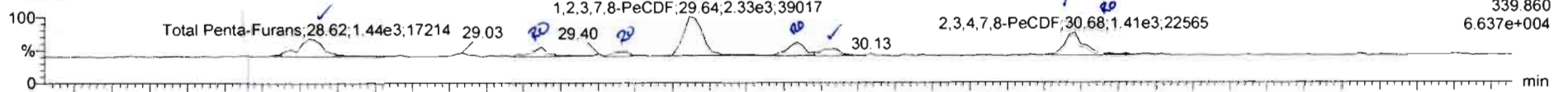
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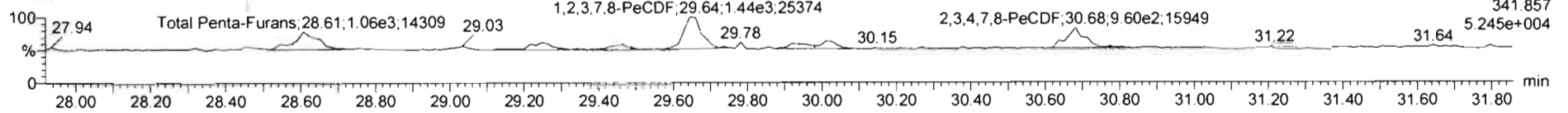
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1,2,3,7,8-PeCDF

200307R1_14

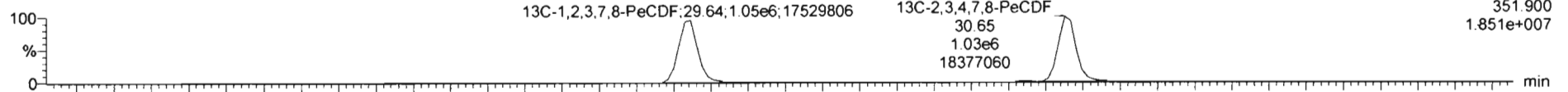


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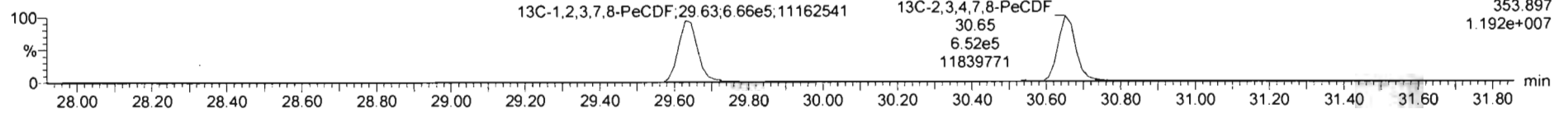


13C-1,2,3,7,8-PeCDF

200307R1_14

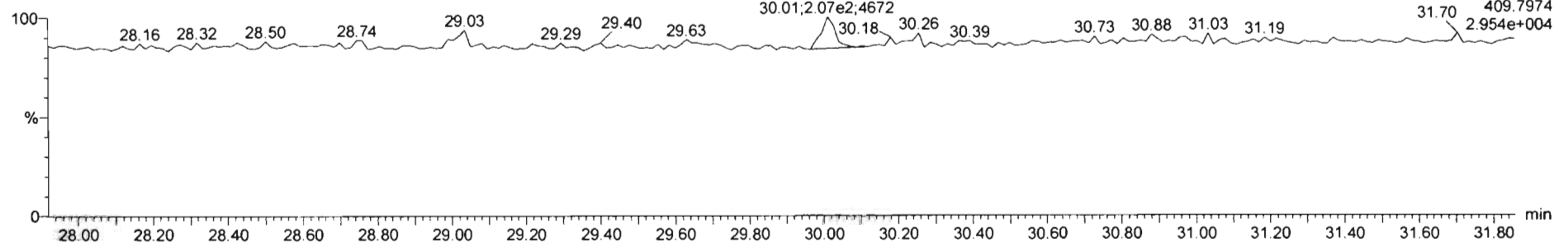


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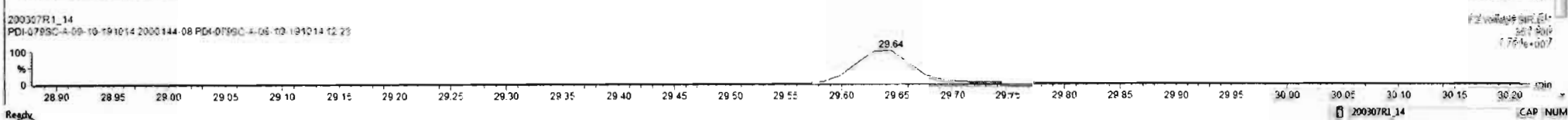
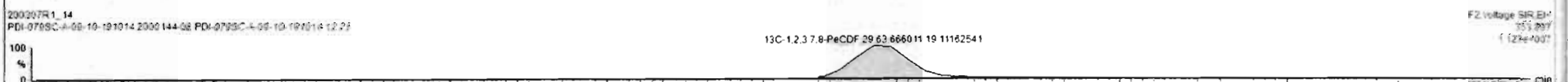
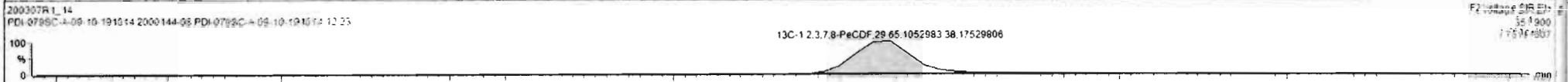
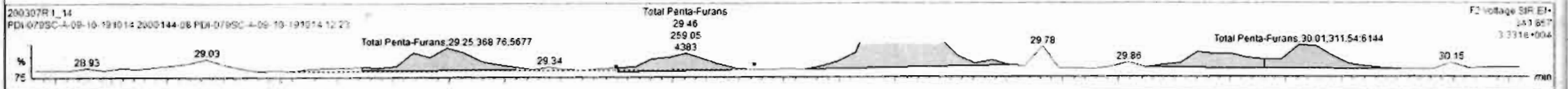
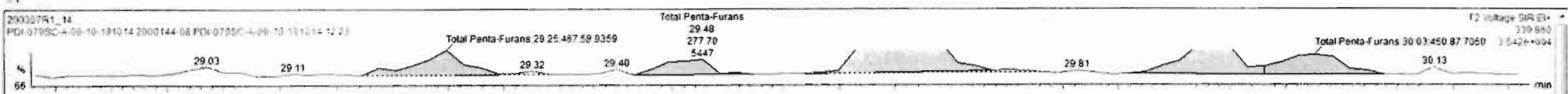
DPE2

200307R1_14



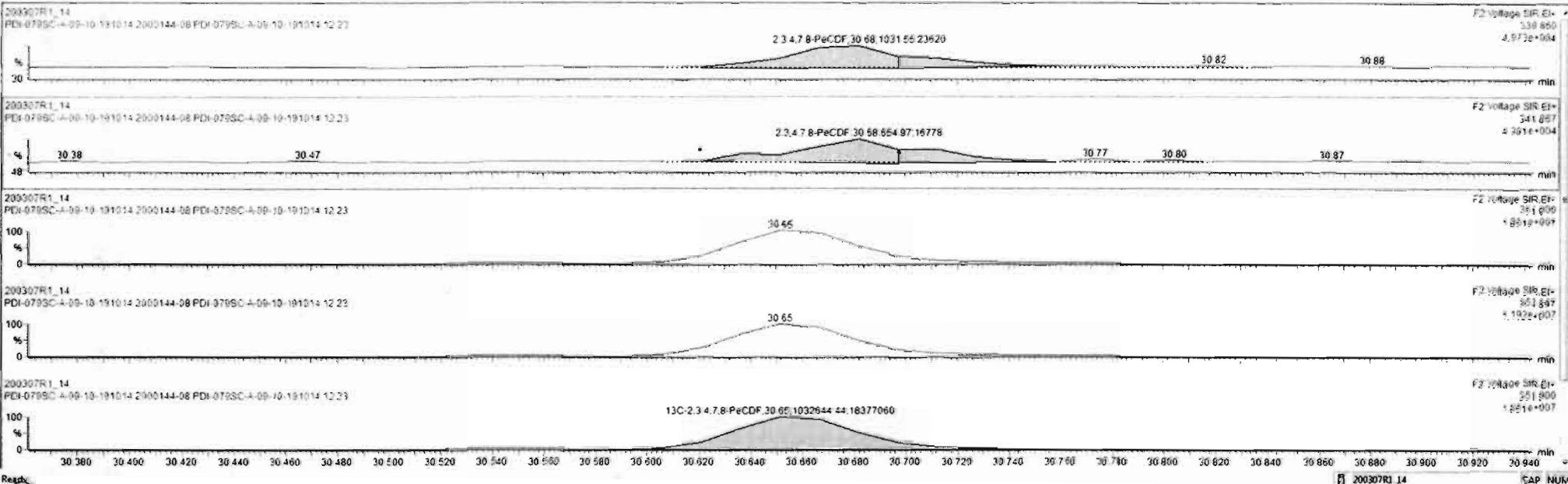
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45	Total Penta-Furans				0.96	10.000			1.05		0.0441	1.35
46	Total Hexa-Furans				1.05	10.000			1.54		0.0590	2.47
47	Total Hepta-Furans				1.05	10.000			3.46		0.112	3.46
48	PFK1											

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Penta-Furans	28.62	1.443e3	1.056e3	1.37	NO	0.30594	0.30594
2	Total Penta-Furans	29.25	4.675e2	3.686e2	1.27	ES	0.094157	0.00000
3	Total Penta-Furans	29.48	2.777e2	2.590e2	1.07	YES	0.055921	0.00000
4	1,2,3,7,8-PeCDF	29.64	2.254e3	1.443e3	1.56	NO	0.44767	0.44787
5	Total Penta-Furans	29.93	7.108e2	7.624e2	2.71	ES	0.081918	0.00000
6	Total Penta-Furans	30.03	4.509e2	3.115e2	1.45	NO	0.093319	0.093319
7	2,3,4,7,8-PeCDF	30.68	1.032e3	6.550e2	1.57	NO	0.19941	0.19941
8	Total Penta-Furans	30.70	3.435e2	2.726e2	1.26	YES	0.068175	0.00000



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.96	10.009			1.06	0.0441	1.36	
46 Total Hexa-Furans				1.09	10.009			1.94	0.0590	2.47	
47 Total Hepta-Furans				1.05	10.009			3.46	0.112	3.46	
48 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.62	1.443e3	1.056e3	1.37	NO	0.30594	0.30594
2 Total Penta-Furans	29.25	4.855e2	4.410e2	1.06	YES	0.093731	0.09000
3 Total Penta-Furans	29.48	2.777e2	2.366e2	1.17	YES	0.055921	0.00000
4 1,2,3,7,8-PeCDF	29.65	2.329e3	1.443e3	1.61	NO	0.45698	0.45698
5 Total Penta-Furans	29.93	7.108e2	2.624e2	2.71	YES	0.081916	0.00000
6 Total Penta-Furans	30.03	4.509e2	3.115e2	1.45	NO	0.093319	0.093319
7 2,3,4,7,8-PeCDF	30.68	1.032e3	6.550e2	1.57	NO	0.19941	0.19941
8 Total Penta-Furans	30.70	3.425e2	2.726e2	1.26	YES	0.069175	0.00000



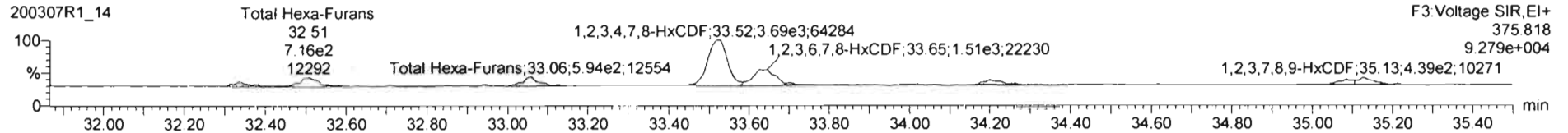
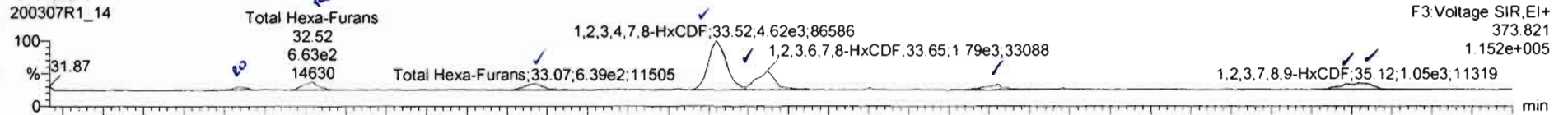
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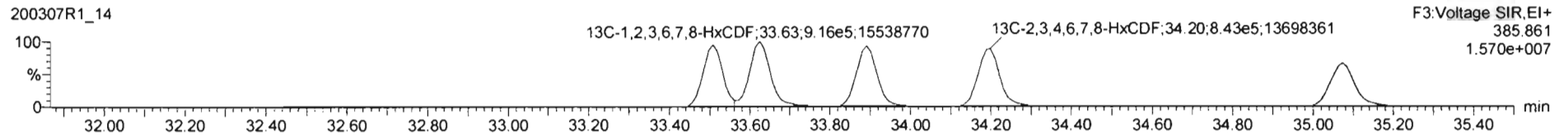
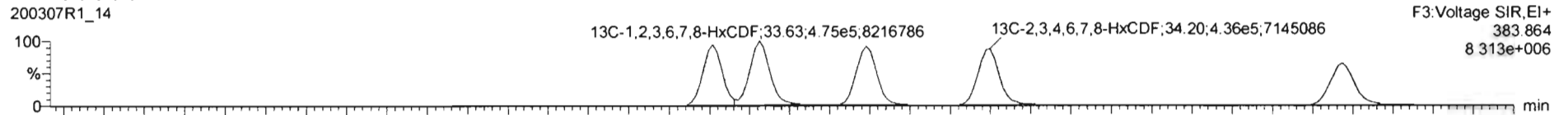
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Name: 200307R1_14, Date: 07-Mar-2020, Time: 20:00:47, ID: 2000144-08 PDI-079SC-A-09-10-191014 12.23, Description: PDI-079SC-A-09-10-191014

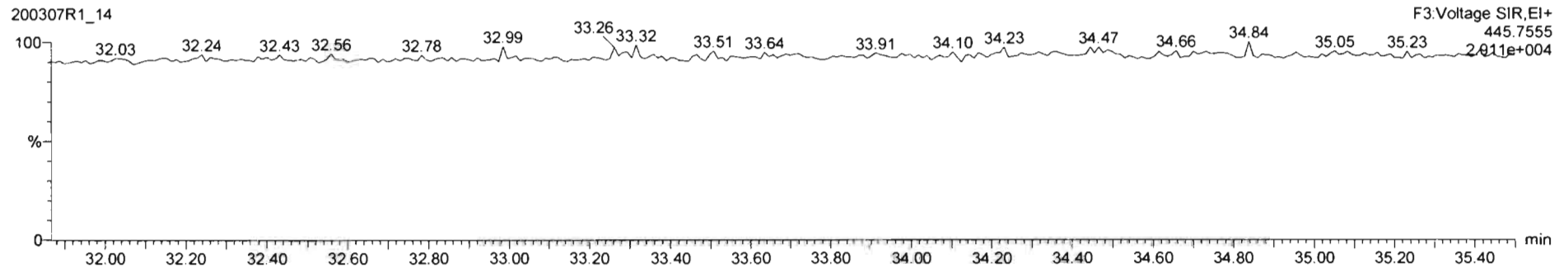
1,2,3,4,7,8-HxCDF



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

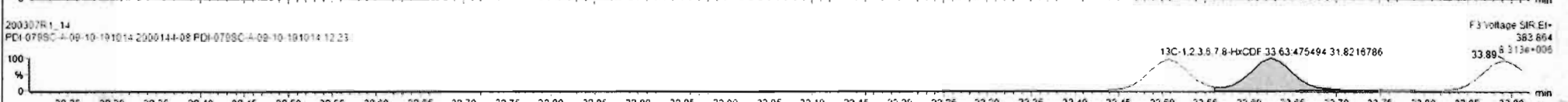
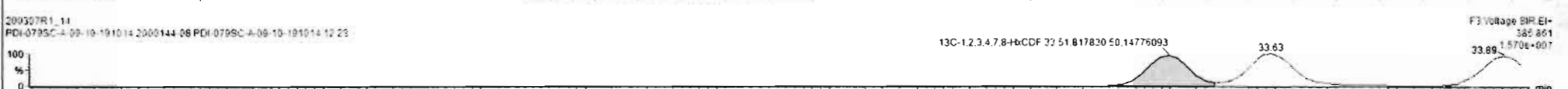
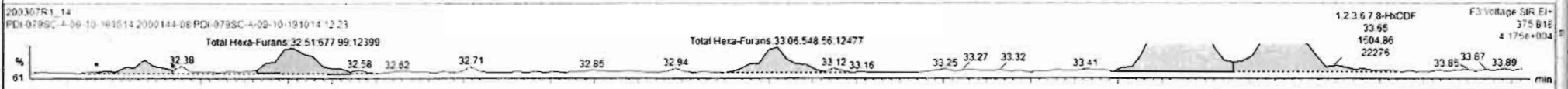
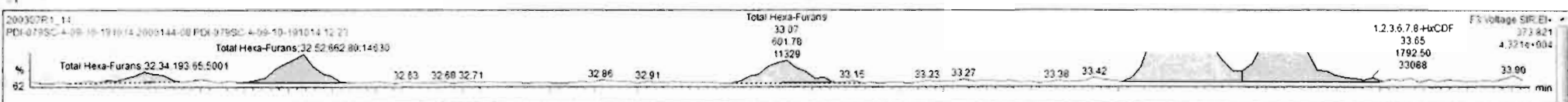


DPE3



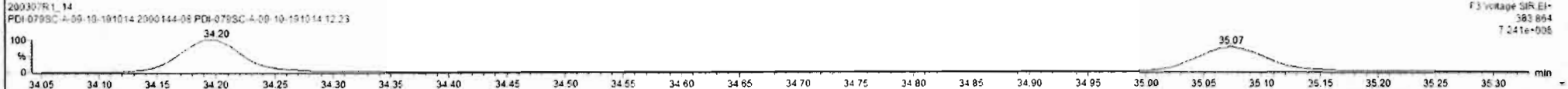
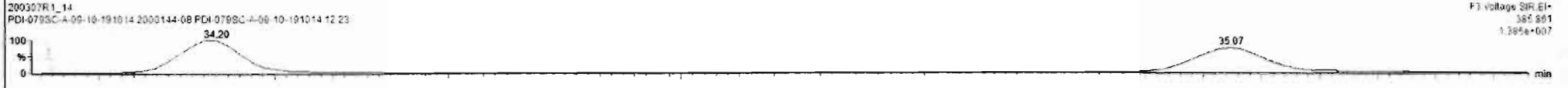
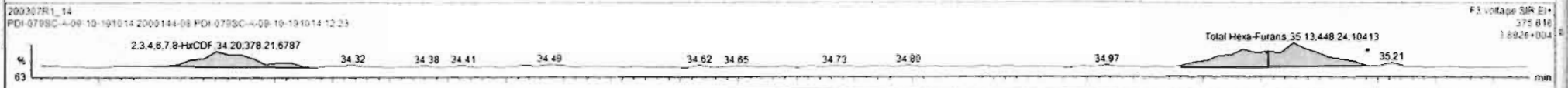
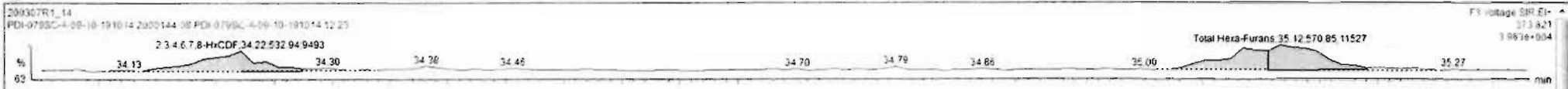
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.96	10.009			1.05	0.0441	1.35	
46 Total Hexa-Furans				1.09	10.009			1.92	0.0590	2.45	
47 Total Hepta-Furans				1.05	10.009			3.46	0.112	3.46	
48 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.34	1.937e2	2.445e2	0.79	YES	0.251186	0.00000
2 Total Hexa-Furans	32.52	6.628e2	6.780e2	0.98	YES	0.175119	0.00000
3 Total Hexa-Furans	33.07	6.016e2	5.486e2	1.10	NO	0.16832	0.16832
4 1,2,3,4,7,8-HxCDF	33.52	4.625e3	1.692e3	1.25	NO	1.2861	1.2861
5 1,2,3,6,7,8-HxCDF	33.65	1.792e3	1.505e3	1.19	NO	0.46764	0.46764
6 2,3,4,6,7,8-HxCDF	34.22	5.843e2	3.782e2	1.55	YES	0.12120	0.00000
7 1,2,3,7,8,9-HxCDF	35.12	1.050e3	4.387e2	2.39	YES	0.17561	0.00000



Name	Resp	RA	n/y	RRF	wt/mol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.96	10.009			1.05	0.0441	1.35	
46 Total Hexa-Furans				1.09	10.005			2.19	0.0590	2.57	
47 Total Hepta-Furans				1.05	10.009			3.46	0.112	3.46	
48 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.34	1.577e2	2.445e2	0.79	YES	0.051168	0.00000
2 Total Hexa-Furans	32.52	6.628e2	6.780e2	0.96	YES	0.17519	0.00000
3 Total Hexa-Furans	32.07	6.016e2	5.486e2	1.10	NO	0.16832	0.16832
4 1,2,3,4,7,8-HxCDF	32.52	4.625e3	3.692e3	1.25	NO	1.2881	1.2881
5 1,2,3,6,7,8-HxCDF	32.65	1.792e3	1.505e3	1.19	NO	0.46764	0.46764
6 2,3,4,6,7,8-HxCDF	34.22	6.329e2	3.782e2	1.41	NO	0.12035	0.13035
7 1,2,3,7,8,9-HxCDF	35.08	4.190e2	3.594e2	1.17	NO	0.13909	0.13909
8 Total Hexa-Furans	35.12	5.708e2	4.482e2	1.27	NO	0.14911	0.00000



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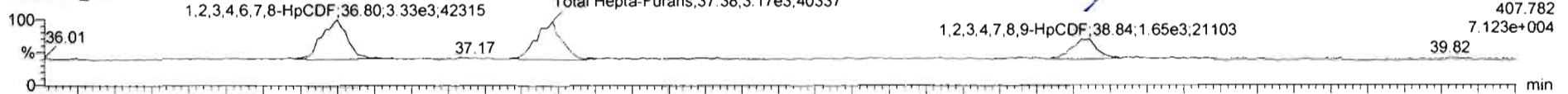
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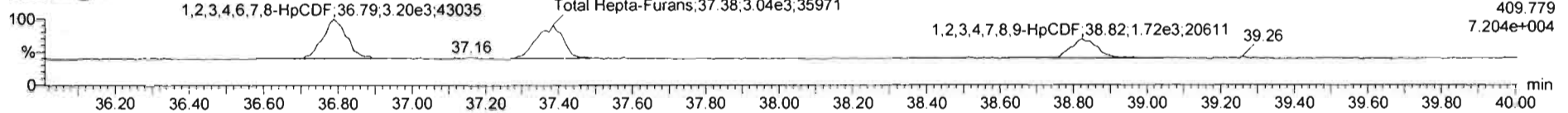
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1,2,3,4,6,7,8-HpCDF

200307R1_14

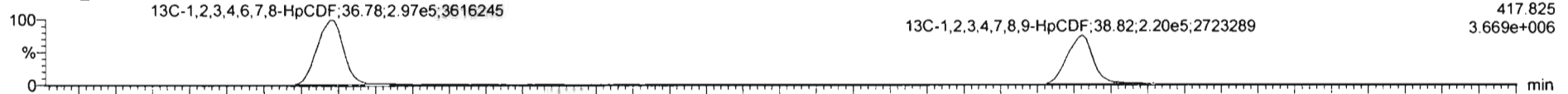


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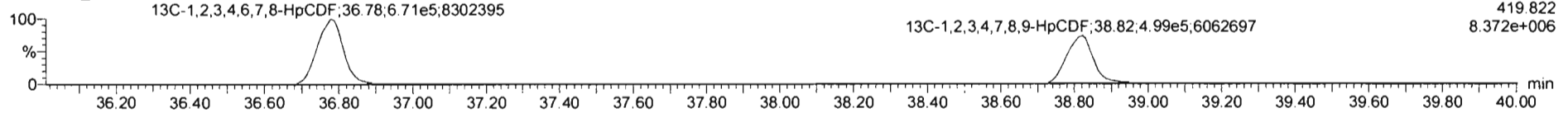


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200307R1_14

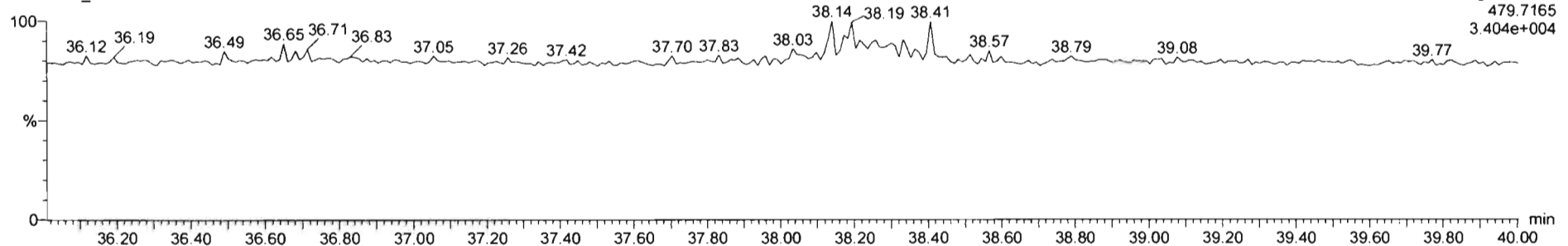


200307R1_14



DPE4

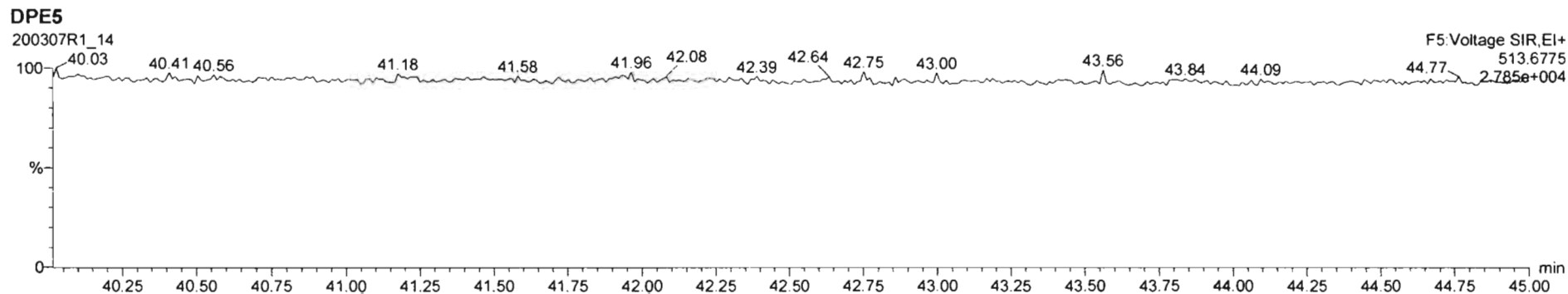
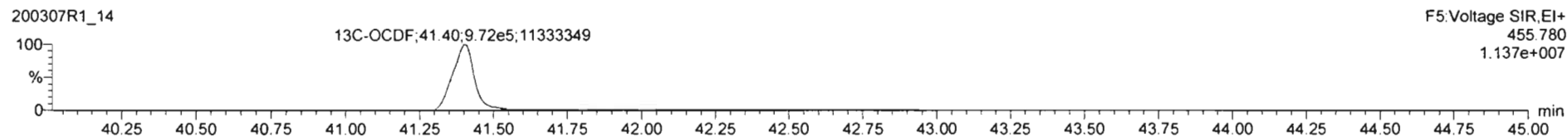
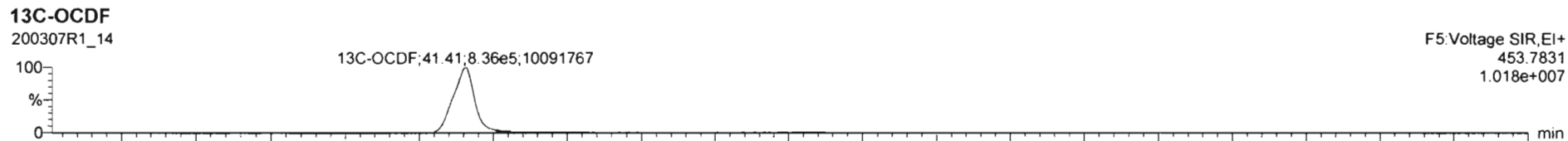
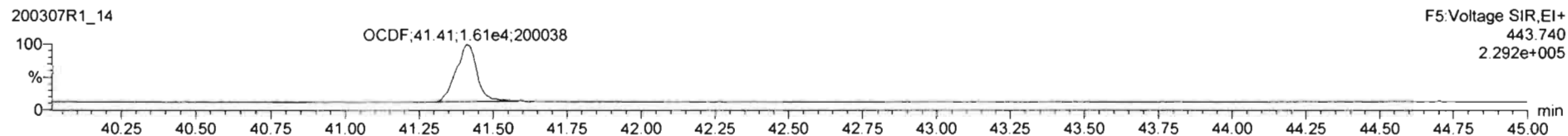
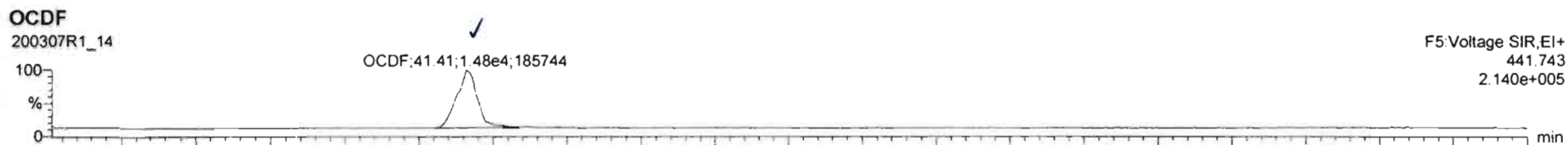
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Name: 200307R1_14, Date: 07-Mar-2020, Time: 20:00:47, ID: 2000144-08 PDI-079SC-A-09-10-191014 12.23, Description: PDI-079SC-A-09-10-191014

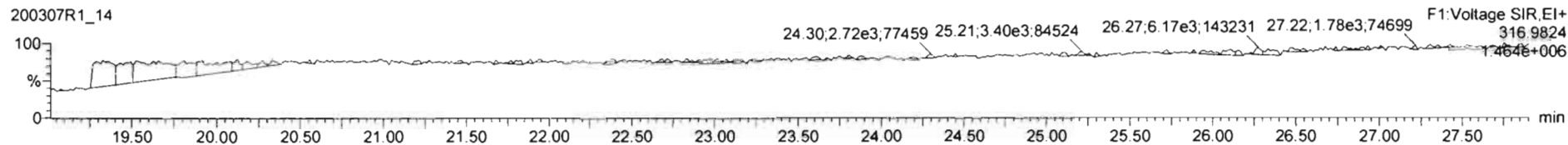


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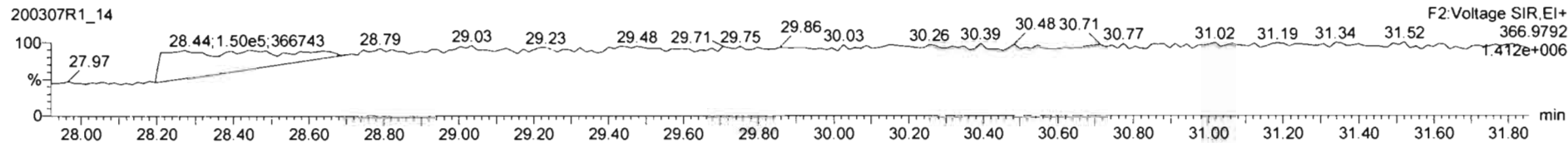
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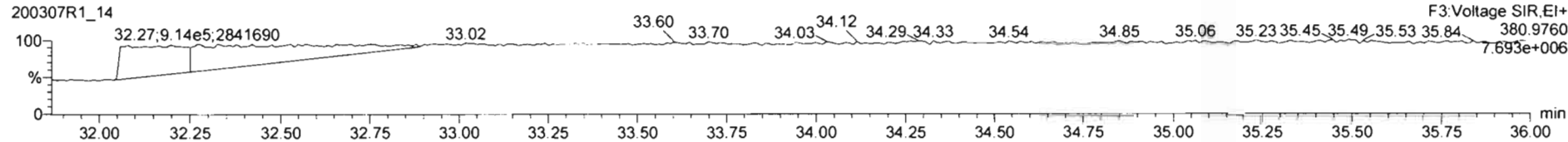
PFK1



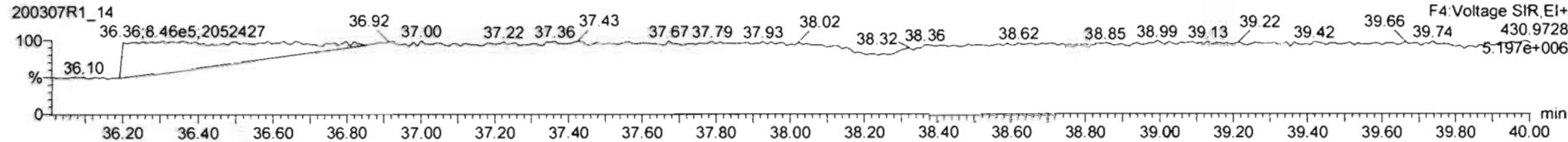
PFK2



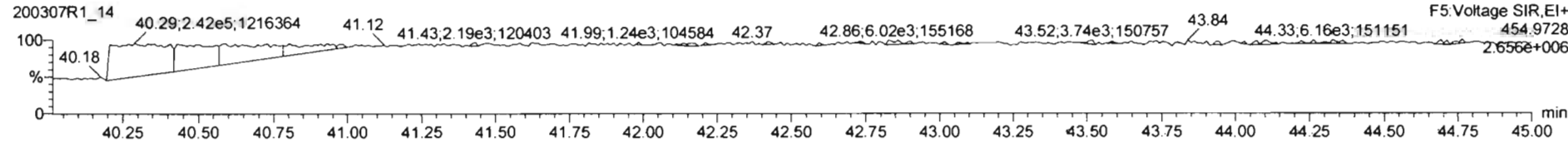
PFK3



PFK4



PFK5



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03/24/2020

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

03/20/2020

Name: 200315R2_4, Date: 16-Mar-2020, Time: 02:22:25, ID: 2000144-09 PDI-081SC-A-08-09-191002 14.98, Description: PDI-081SC-A-08-09-191002, Task: ST200315R2_1

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1	2,3,7,8-TCDD	4.12e3	0.66	NO	0.983	10.035	25.75	1.001	1.1441		0.132	1.14
2	1,2,3,7,8-PeCDD	3.82e3	0.63	NO	0.921	10.035	31.02	1.000	1.4362		0.106	1.44
3	1,2,3,4,7,8-HxCDD	2.79e3	1.25	NO	1.13	10.035	34.43	1.000	1.2250		0.290	1.23
4	1,2,3,6,7,8-HxCDD	1.82e4	1.23	NO	0.984	10.035	34.53	1.000	7.7372		0.278	7.74
5	1,2,3,7,8,9-HxCDD	7.01e3	1.17	NO	0.967	10.035	34.80	1.000	3.2321		0.320	3.23
6	1,2,3,4,6,7,8-HpCDD	3.94e5	1.04	NO	1.01	10.035	38.27	1.000	240.68		1.10	241
7	OCDD	5.26e6	0.88	NO	1.05	10.035	41.41	1.000	3201.3		0.782	3200
8	2,3,7,8-TCDF	3.31e5	0.76	NO	0.915	10.035	24.76	1.001	81.673	(61.5)	0.219	81.7
9	1,2,3,7,8-PeCDF	5.97e5	1.56	NO	0.959	10.035	29.66	1.001	157.08		0.380	157
10	2,3,4,7,8-PeCDF	1.96e5	1.52	NO	1.00	10.035	30.70	1.001	51.515		0.350	51.5
11	1,2,3,4,7,8-HxCDF	8.33e5	1.22	NO	1.04	10.035	33.58	1.000	298.51		0.308	299
12	1,2,3,6,7,8-HxCDF	2.10e5	1.22	NO	1.01	10.035	33.70	1.001	70.961		0.317	71.0
13	2,3,4,6,7,8-HxCDF	5.26e4	1.24	NO	1.09	10.035	34.27	1.000	17.918		0.334	17.9
14	1,2,3,7,8,9-HxCDF	3.44e4	1.22	NO	1.03	10.035	35.17	1.001	15.227		0.488	15.2
15	1,2,3,4,6,7,8-HpCDF	2.95e5	1.00	NO	1.05	10.035	36.86	1.001	152.06		0.470	152
16	1,2,3,4,7,8,9-HpCDF	6.57e4	0.98	NO	1.21	10.035	38.93	1.000	42.889		0.602	42.9
17	OCDF	5.29e5	0.86	NO	0.947	10.035	41.60	1.000	313.53		0.339	314
18	13C-2,3,7,8-TCDD	7.29e5	0.77	NO	1.18	10.035	25.72	1.029	181.55	91.1	0.261	
19	13C-1,2,3,7,8-PeCDD	5.76e5	0.62	NO	0.864	10.035	31.00	1.240	196.36	98.5	0.336	
20	13C-1,2,3,4,7,8-HxCDD	4.01e5	1.24	NO	0.754	10.035	34.42	1.014	187.50	94.1	0.380	
21	13C-1,2,3,6,7,8-HxCDD	4.76e5	1.27	NO	0.925	10.035	34.52	1.017	181.30	91.0	0.309	
22	13C-1,2,3,7,8,9-HxCDD	4.47e5	1.24	NO	0.829	10.035	34.79	1.025	189.69	95.2	0.345	
23	13C-1,2,3,4,6,7,8-HpCDD	3.25e5	1.02	NO	0.598	10.035	38.26	1.127	191.16	95.9	0.473	
24	13C-OCDD	6.23e5	0.89	NO	0.571	10.035	41.40	1.220	384.28	96.4	0.390	
25	13C-2,3,7,8-TCDF	8.82e5	0.78	NO	1.09	10.035	24.73	0.989	153.21	76.9	0.380	
26	13C-1,2,3,7,8-PeCDF	7.89e5	1.56	NO	0.876	10.035	29.65	1.186	170.52	85.6	0.506	
27	13C-2,3,4,7,8-PeCDF	7.56e5	1.58	NO	0.844	10.035	30.68	1.227	169.54	85.1	0.526	
28	13C-1,2,3,4,7,8-HxCDF	5.36e5	0.51	NO	1.00	10.035	33.56	0.989	188.62	94.6	0.554	
29	13C-1,2,3,6,7,8-HxCDF	5.83e5	0.52	NO	1.12	10.035	33.68	0.992	183.78	92.2	0.496	
30	13C-2,3,4,6,7,8-HxCDF	5.36e5	0.51	NO	1.04	10.035	34.26	1.009	182.40	91.5	0.535	

Dataset: U:\VG12.PRO\Results\200315R2\200315R2-4.qld

Last Altered: Tuesday, March 24, 2020 2:36:24 PM Pacific Daylight Time

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Name: 200315R2_4, Date: 16-Mar-2020, Time: 02:22:25, ID: 2000144-09 PDI-081SC-A-08-09-191002 14.98, Description: PDI-081SC-A-08-09-191002, Task: ST200315R2_1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
31	13C-1,2,3,7,8,9-HxCDF	4.39e5	0.50	NO	0.873	10.035	35.13	1.035	177.15	88.9	0.634	
32	13C-1,2,3,4,6,7,8-HpCDF	3.69e5	0.44	NO	0.771	10.035	36.83	1.085	168.81	84.7	0.498	
33	13C-1,2,3,4,7,8,9-HpCDF	2.53e5	0.43	NO	0.519	10.035	38.92	1.147	171.32	86.0	0.739	
34	13C-OCDF	7.11e5	0.87	NO	0.696	10.035	41.58	1.225	359.69	90.2	0.433	
35	37Cl-2,3,7,8-TCDD	2.75e5			1.17	10.035	25.75	1.030	68.937	86.5	0.0931	
36	13C-1,2,3,4-TCDD	6.76e5	0.78	NO	1.00	10.035	25.00	1.000	199.31	100	0.310	
37	13C-1,2,3,4-TCDF	1.05e6	0.79	NO	1.00	10.035	23.10	1.000	199.31	100	0.414	
38	13C-1,2,3,4,6,9-HxCDF	5.66e5	0.52	NO	1.00	10.035	33.95	1.000	199.31	100	0.554	
39	Total Tetra-Dioxins				0.983	10.035			9.6586		0.132	11.1
40	Total Penta-Dioxins				0.921	10.035			11.086		0.106	12.8
41	Total Hexa-Dioxins				0.984	10.035			76.932		0.307	76.9
42	Total Hepta-Dioxins				1.01	10.035			609.90		1.10	610
43	Total Tetra-Furans				0.915	10.035			245.99		0.219	256
44	1st Func. Penta-Furans				0.959	10.035			36.981		0.0515	37.0
45	Total Penta-Furans				0.959	10.035			400.25		0.373	400
46	Total Hexa-Furans				1.09	10.035			548.77		0.338	549
47	Total Hepta-Furans				1.05	10.035			462.56		0.561	465

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Dataset: U:\VG12.PRO\Results\200315R2\200315R2-4.qld

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

Name: 200315R2_4, Date: 16-Mar-2020, Time: 02:22:25, ID: 2000144-09 PDI-081SC-A-08-09-191002 14.98, Description: PDI-081SC-A-08-09-191002,

Task: ST200315R2_1

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	21.42	9.660e4	1.231e5	8.439e3	1.101e4	0.77	NO	1.945e4	5.4059	5.4059	0.132
2	Total Tetra-Dioxins	21.83	2.225e4	3.553e4	2.134e3	2.938e3	0.73	NO	5.073e3	1.4096	1.4096	0.132
3	Total Tetra-Dioxins	22.29	6.132e3	8.431e3	5.656e2	7.669e2	0.74	NO	1.332e3	0.37027	0.37027	0.132
4	Total Tetra-Dioxins	23.30	7.337e3	7.799e3	5.140e2	7.379e2	0.70	NO	1.252e3	0.34787	0.34787	0.132
5	Total Tetra-Dioxins	23.58	8.132e3	1.246e4	6.552e2	1.110e3	0.59	YES	0.000e0	0.00000	0.41853	0.132
6	Total Tetra-Dioxins	23.83	1.104e4	1.233e4	8.071e2	1.167e3	0.69	NO	1.974e3	0.54865	0.54865	0.132
7	Total Tetra-Dioxins	24.12	3.570e3	4.421e3	2.895e2	3.678e2	0.79	NO	6.573e2	0.18264	0.18264	0.132
8	Total Tetra-Dioxins	24.55	4.947e3	5.202e3	3.802e2	3.923e2	0.97	YES	0.000e0	0.00000	0.19295	0.132
9	Total Tetra-Dioxins	24.99	4.366e3	4.224e3	2.774e2	2.590e2	1.07	YES	0.000e0	0.00000	0.12740	0.132
10	Total Tetra-Dioxins	25.47	1.566e4	1.314e4	1.066e3	1.195e3	0.89	YES	0.000e0	0.00000	0.58788	0.132
11	2,3,7,8-TCDD	25.75	2.494e4	3.637e4	1.640e3	2.477e3	0.66	NO	4.117e3	1.1441	1.1441	0.132
12	Total Tetra-Dioxins	26.09	5.524e3	7.732e3	3.826e2	5.158e2	0.74	NO	8.984e2	0.24965	0.24965	0.132
13	Total Tetra-Dioxins	26.77	8.092e3	2.936e3	2.929e2	2.063e2	1.42	YES	0.000e0	0.00000	0.10148	0.132

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.68	4.805e4	7.404e4	3.935e3	6.414e3	0.61	NO	1.035e4	3.8888	3.8888	0.106
2	Total Penta-Dioxins	29.19	1.856e4	2.630e4	9.592e2	1.578e3	0.61	NO	2.537e3	0.95321	0.95321	0.106
3	Total Penta-Dioxins	29.72	4.315e4	8.160e4	2.446e3	4.456e3	0.55	NO	6.902e3	2.5934	2.5934	0.106
4	Total Penta-Dioxins	29.90	2.278e4	3.664e4	1.384e3	2.292e3	0.60	NO	3.675e3	1.3810	1.3810	0.106
5	Total Penta-Dioxins	29.98	1.657e4	2.902e4	8.060e2	1.413e3	0.57	NO	2.219e3	0.83375	0.83375	0.106
6	Total Penta-Dioxins	30.21	1.883e4	3.132e4	9.082e2	2.626e3	0.35	YES	0.000e0	0.00000	0.88297	0.106
7	Total Penta-Dioxins	30.56	6.773e3	6.559e3	3.079e2	4.153e2	0.74	YES	0.000e0	0.00000	0.25435	0.106
8	1,2,3,7,8-PeCDD	31.02	2.169e4	3.904e4	1.471e3	2.351e3	0.63	NO	3.822e3	1.4362	1.4362	0.106
9	Total Penta-Dioxins	31.09	6.672e3	8.477e3	3.649e2	4.043e2	0.90	YES	0.000e0	0.00000	0.24765	0.106
10	Total Penta-Dioxins	31.42	7.511e3	1.134e4	3.409e2	6.666e2	0.51	YES	0.000e0	0.00000	0.33142	0.106

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 Task: ST200315R2_1

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.96	6.615e5	5.464e5	3.694e4	2.974e4	1.24	NO	6.668e4	30.588	30.588	0.307
2	Total Hexa-Dioxins	33.52	7.431e4	5.782e4	4.217e3	3.031e3	1.39	NO	7.248e3	3.3244	3.3244	0.307
3	Total Hexa-Dioxins	33.77	5.340e5	3.866e5	3.654e4	2.867e4	1.27	NO	6.521e4	29.912	29.912	0.307
4	1,2,3,4,7,8-HxCDD	34.43	2.670e4	2.481e4	1.550e3	1.243e3	1.25	NO	2.793e3	1.2250	1.2250	0.290
5	1,2,3,6,7,8-HxCDD	34.53	1.561e5	1.305e5	1.005e4	8.153e3	1.23	NO	1.820e4	7.7372	7.7372	0.278
6	Total Hexa-Dioxins	34.70	1.972e4	1.576e4	1.149e3	8.437e2	1.36	NO	1.993e3	0.91403	0.91403	0.307
7	1,2,3,7,8,9-HxCDD	34.80	5.449e4	4.356e4	3.778e3	3.228e3	1.17	NO	7.006e3	3.2321	3.2321	0.320

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.24	3.552e6	3.436e6	3.079e5	2.971e5	1.04	NO	6.050e5	369.22	369.22	1.10
2	1,2,3,4,6,7,8-HpCDD	38.27	2.090e6	2.001e6	2.008e5	1.936e5	1.04	NO	3.944e5	240.68	240.68	1.10

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Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	19.43	1.231e4	2.115e4	1.080e3	1.602e3	0.67	NO	2.683e3	0.66244	0.66244	0.219
2	Total Tetra-Furans	19.93	3.156e4	4.718e4	2.724e3	4.018e3	0.68	NO	6.742e3	1.6649	1.6649	0.219
3	Total Tetra-Furans	20.50	3.355e5	4.361e5	2.849e4	3.774e4	0.76	NO	6.623e4	16.355	16.355	0.219
4	Total Tetra-Furans	21.02	5.720e4	7.645e4	7.730e3	1.052e4	0.73	NO	1.825e4	4.5068	4.5068	0.219
5	Total Tetra-Furans	21.40	4.022e5	5.444e5	3.704e4	5.005e4	0.74	NO	8.708e4	21.504	21.504	0.219
6	Total Tetra-Furans	21.84	1.615e5	2.248e5	1.479e4	1.991e4	0.74	NO	3.470e4	8.5688	8.5688	0.219
7	Total Tetra-Furans	22.01	1.233e4	1.783e4	8.470e2	1.400e3	0.60	YES	0.000e0	0.00000	0.48078	0.219
8	Total Tetra-Furans	22.19	5.503e4	7.785e4	5.385e3	7.200e3	0.75	NO	1.258e4	3.1075	3.1075	0.219
9	Total Tetra-Furans	22.65	1.330e4	1.434e4	1.154e3	1.353e3	0.85	NO	2.507e3	0.61906	0.61906	0.219
10	Total Tetra-Furans	22.82	1.027e4	1.557e4	1.016e3	1.293e3	0.79	NO	2.310e3	0.57034	0.57034	0.219
11	Total Tetra-Furans	23.10	2.031e5	2.862e5	3.049e4	3.996e4	0.76	NO	7.045e4	17.396	17.396	0.219
12	Total Tetra-Furans	23.70	1.412e6	1.878e6	1.267e5	1.685e5	0.75	NO	2.951e5	72.875	72.875	0.219
13	Total Tetra-Furans	24.03	4.364e4	7.460e4	4.164e3	5.571e3	0.75	NO	9.735e3	2.4040	2.4040	0.219
14	Total Tetra-Furans	24.25	1.187e4	1.771e4	1.149e3	1.508e3	0.76	NO	2.657e3	0.65621	0.65621	0.219
15	Total Tetra-Furans	24.51	2.265e4	2.710e4	1.251e3	1.704e3	0.73	NO	2.955e3	0.72967	0.72967	0.219
16	Total Tetra-Furans	24.64	2.273e5	3.096e5	1.499e4	2.006e4	0.75	NO	3.505e4	8.6556	8.6556	0.219
17	2,3,7,8-TCDF	24.76	1.721e6	2.302e6	1.430e5	1.877e5	0.76	NO	3.307e5	81.673	81.673	0.219
18	Total Tetra-Furans	25.17	7.231e4	9.924e4	5.842e3	8.047e3	0.73	NO	1.389e4	3.4296	3.4296	0.219
19	Total Tetra-Furans	25.44	1.429e4	1.871e4	1.056e3	1.415e3	0.75	NO	2.471e3	0.61028	0.61028	0.219
20	Total Tetra-Furans	26.95	3.030e5	3.323e5	1.963e4	2.113e4	0.93	YES	0.000e0	0.00000	9.2360	0.219

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	26.93	1.310e6	8.657e5	8.466e4	5.286e4	1.60	NO	1.375e5	36.981	36.981	0.0515

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Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.47	7.307e4	6.725e4	4.535e3	3.348e3	1.35	NO	7.883e3	2.1197	2.1197	0.373
2	Total Penta-Furans	28.62	2.678e6	1.729e6	1.791e5	1.163e5	1.54	NO	2.954e5	79.427	79.427	0.373
3	Total Penta-Furans	29.25	2.954e5	1.868e5	1.874e4	1.234e4	1.52	NO	3.108e4	8.3584	8.3584	0.373
4	Total Penta-Furans	29.46	5.419e5	3.602e5	3.153e4	2.040e4	1.55	NO	5.193e4	13.965	13.965	0.373
5	1,2,3,7,8-PeCDF	29.66	6.524e6	4.260e6	3.642e5	2.327e5	1.56	NO	5.970e5	157.08	157.08	0.380
6	Total Penta-Furans	29.95	2.237e6	1.467e6	1.203e5	7.791e4	1.54	NO	1.982e5	53.288	53.288	0.373
7	Total Penta-Furans	30.58	3.645e4	3.042e4	2.009e3	1.432e3	1.40	NO	3.441e3	0.92525	0.92525	0.373
8	2,3,4,7,8-PeCDF	30.70	2.966e6	1.872e6	1.181e5	7.785e4	1.52	NO	1.960e5	51.515	51.515	0.350
9	Total Penta-Furans	30.71	2.535e6	1.676e6	6.812e4	4.403e4	1.55	NO	1.121e5	30.155	30.155	0.373
10	Total Penta-Furans	31.66	1.457e5	7.935e4	7.869e3	4.837e3	1.63	NO	1.271e4	3.4165	3.4165	0.373

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.38	3.903e5	3.064e5	2.068e4	1.692e4	1.22	NO	3.759e4	13.108	13.108	0.338
2	Total Hexa-Furans	32.55	1.591e6	1.330e6	8.235e4	6.804e4	1.21	NO	1.504e5	52.437	52.437	0.338
3	Total Hexa-Furans	32.93	2.438e4	2.346e4	1.477e3	1.383e3	1.07	NO	2.860e3	0.99714	0.99714	0.338
4	Total Hexa-Furans	33.12	1.766e6	1.427e6	9.724e4	7.895e4	1.23	NO	1.762e5	61.436	61.436	0.338
5	Total Hexa-Furans	33.48	8.193e4	5.951e4	3.858e3	2.835e3	1.36	NO	6.693e3	2.3338	2.3338	0.338
6	1,2,3,4,7,8-HxCDF	33.58	8.137e6	6.756e6	4.580e5	3.746e5	1.22	NO	8.327e5	298.51	298.51	0.308
7	1,2,3,6,7,8-HxCDF	33.70	1.904e6	1.583e6	1.155e5	9.476e4	1.22	NO	2.102e5	70.961	70.961	0.317
8	Total Hexa-Furans	33.97	4.827e4	3.979e4	2.752e3	2.105e3	1.31	NO	4.857e3	1.6934	1.6934	0.338
9	2,3,4,6,7,8-HxCDF	34.27	4.722e5	3.800e5	2.908e4	2.354e4	1.24	NO	5.262e4	17.918	17.918	0.334
10	1,2,3,7,8,9-HxCDF	35.17	5.494e5	4.451e5	1.891e4	1.553e4	1.22	NO	3.444e4	15.227	15.227	0.488
11	Total Hexa-Furans	35.18	5.718e5	4.425e5	2.258e4	1.798e4	1.26	NO	4.055e4	14.141	14.141	0.338

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Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.86	1.817e6	1.827e6	1.480e5	1.474e5	1.00	NO	2.954e5	152.06	152.06	0.470
2	Total Hepta-Furans	37.25	2.730e4	2.522e4	2.115e3	1.722e3	1.23	YES	0.000e0	0.00000	2.1479	0.561
3	Total Hepta-Furans	37.44	2.485e6	2.456e6	2.204e5	2.173e5	1.01	NO	4.377e5	267.61	267.61	0.561
4	1,2,3,4,7,8,9-HpCDF	38.93	3.792e5	3.911e5	3.249e4	3.326e4	0.98	NO	6.575e4	42.889	42.889	0.602

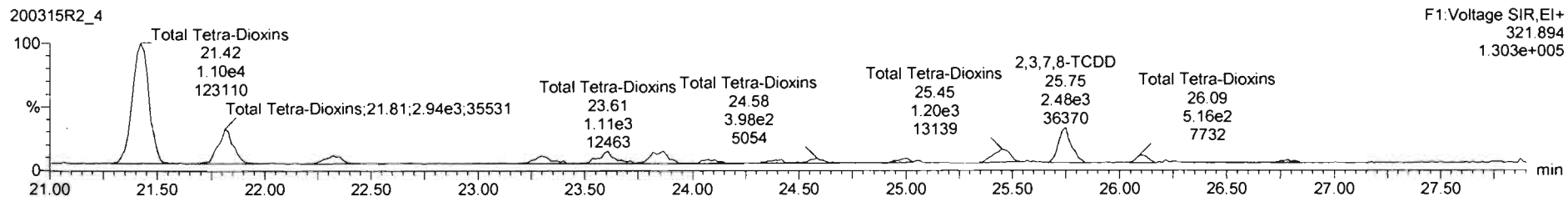
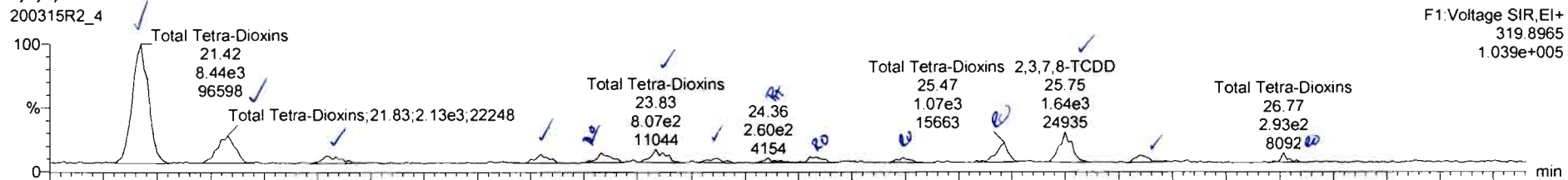
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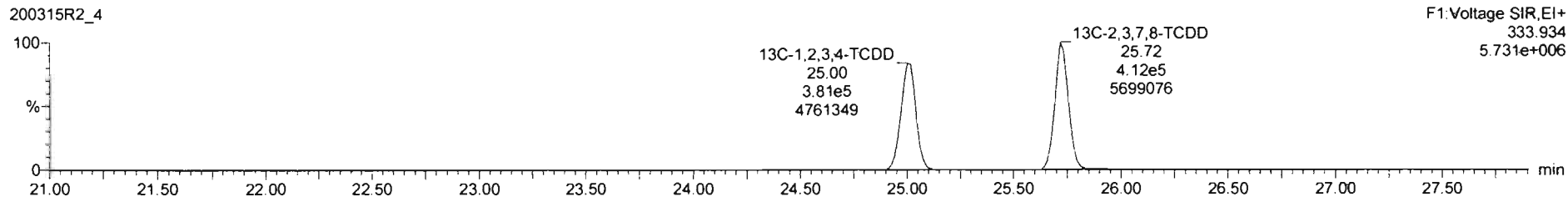
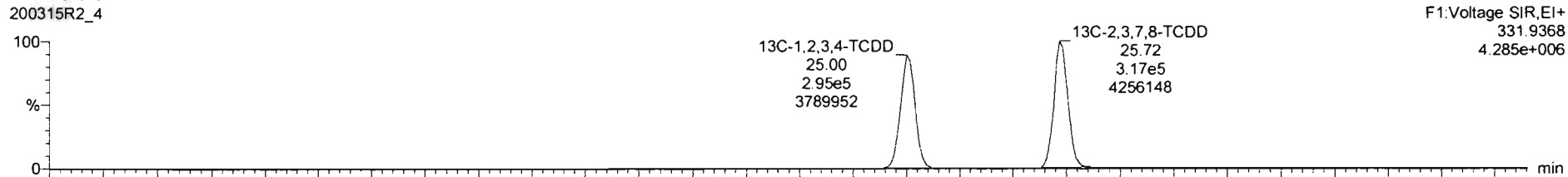
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Name: 200315R2_4, Date: 16-Mar-2020, Time: 02:22:25, ID: 2000144-09 PDI-081SC-A-08-09-191002 14.98, Description: PDI-081SC-A-08-09-191002

2,3,7,8-TCDD

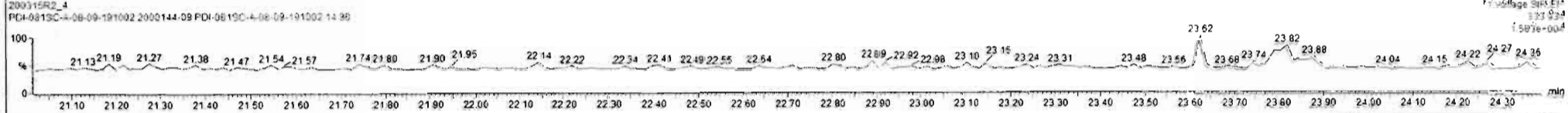
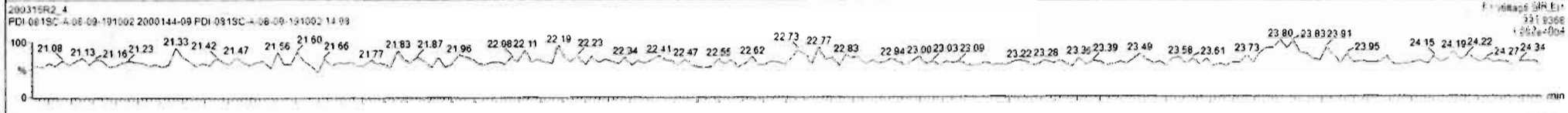
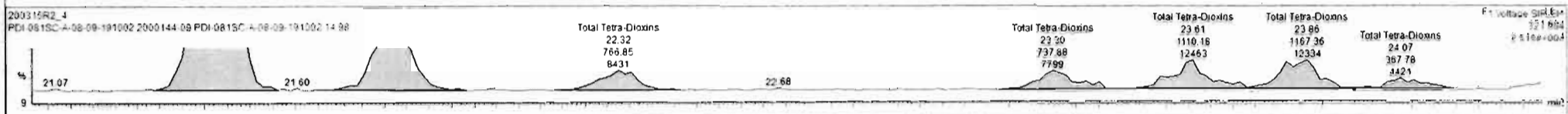


13C-2,3,7,8-TCDD



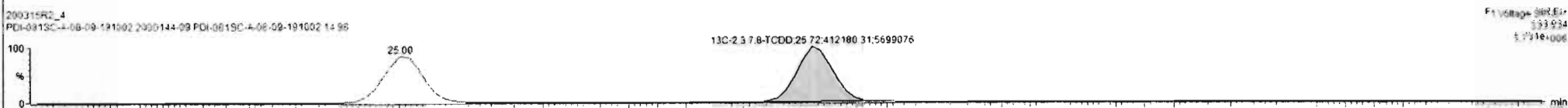
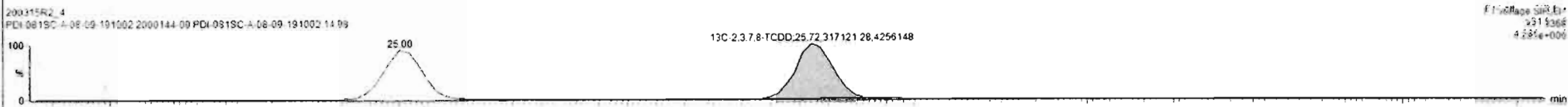
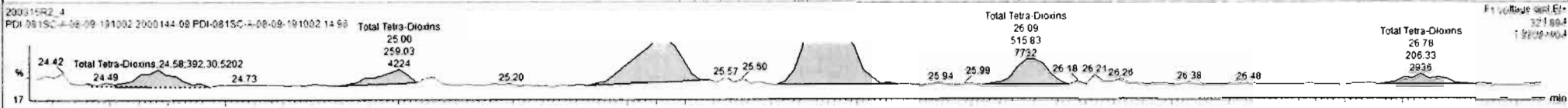
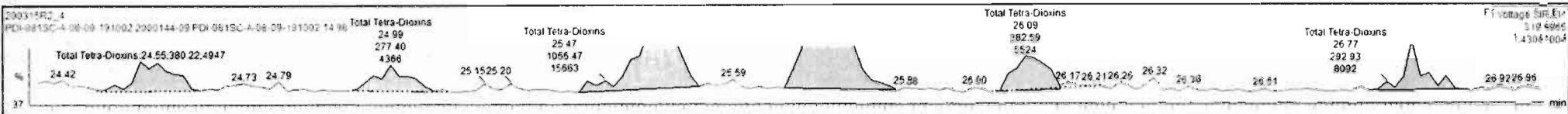
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38 13C-1,2,3,4,6,9-HxCDF	5.66e5	0.52	NO	1.00	10.035	22.95	1.000	199	100	0.554	
39 Total Tetra-Dioxins				0.98	10.035			9.86		0.132	11.1
40 Total Penta-Dioxins				0.52	10.035			9.67		0.106	12.3
41 Total Hexa-Dioxins				0.98	10.035			77.3		0.307	78.3

Name	RT	m1 Resp	m2 Resp	RA	nby	EMPC	Conc.
1 Total Tetra-Dioxins	21.42	6.439e3	1.101e4	0.77	NO	5.4059	5.4059
2 Total Tetra-Dioxins	21.83	2.134e3	2.930e3	0.73	NO	1.4096	1.4096
3 Total Tetra-Dioxins	22.29	5.650e2	7.569e2	0.74	NO	6.37027	0.37027
4 Total Tetra-Dioxins	23.30	5.140e2	7.379e2	0.70	NO	6.34787	0.34787
5 Total Tetra-Dioxins	23.58	8.552e2	1.110e3	0.59	YES	0.41563	0.00000
6 Total Tetra-Dioxins	23.63	8.071e2	1.167e3	0.69	NO	0.54985	0.54985
7 Total Tetra-Dioxins	24.12	2.895e2	1.678e2	0.79	NO	0.18264	0.18264
8 Total Tetra-Dioxins	24.55	3.733e2	3.977e2	0.94	YES	0.19550	0.00000
9 Total Tetra-Dioxins	24.99	2.877e2	2.590e2	1.03	YES	0.12740	0.00000
10 Total Tetra-Dioxins	25.47	1.066e3	1.195e3	0.89	YES	0.60768	0.00000
11 2,3,7,8-TCDD	25.75	1.640e3	2.477e3	0.66	NO	1.1441	1.1441
12 Total Tetra-Dioxins	26.09	4.002e2	5.158e2	0.76	NO	0.25456	0.25456
13 Total Tetra-Dioxins	26.77	2.929e2	2.063e2	1.42	YES	0.10148	0.00000



Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
38 13C-1,2,3,4,6,8-HxCDF	5.66e5	0.52	NO	1.00	10.035	33.95	1.300	150	100	0.554	
39 Total Tetra-Dioxins				0.98	10.035			9.66		0.152	11.1
40 Total Penta-Dioxins				0.92	10.035			9.67		0.156	12.3
41 Total Hexa-Dioxins				0.98	10.035			77.3		0.307	78.3

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Tetra-Dioxins	21.42	6.429e3	1.101e4	0.77	NO	5.4059	5.4059
2 Total Tetra-Dioxins	21.83	2.134e3	2.938e3	0.73	NO	1.4096	1.4096
3 Total Tetra-Dioxins	22.29	5.656e2	7.669e2	0.74	NO	0.37027	0.37027
4 Total Tetra-Dioxins	23.30	5.140e2	7.379e2	0.70	NO	0.34787	0.34787
5 Total Tetra-Dioxins	23.56	6.552e2	1.110e3	0.59	YES	0.41853	0.00000
6 Total Tetra-Dioxins	23.83	8.071e2	1.167e3	0.66	NO	0.54865	0.54865
7 Total Tetra-Dioxins	24.12	2.895e2	3.678e2	0.79	NO	0.18284	0.18284
8 Total Tetra-Dioxins	24.55	3.802e2	3.923e2	0.97	YES	0.15295	0.00000
9 Total Tetra-Dioxins	24.99	2.774e2	2.590e2	1.07	YES	0.12740	0.00000
10 Total Tetra-Dioxins	25.47	1.066e3	1.195e3	0.65	YES	0.58788	0.00000
11 2,3,7,8-TCDD	25.75	1.640e3	2.477e3	0.66	NO	1.1441	1.1441
12 Total Tetra-Dioxins	26.09	3.826e2	5.158e2	0.74	NO	0.24965	0.24965
13 Total Tetra-Dioxins	26.77	2.929e2	2.063e2	1.42	YES	0.10148	0.00000



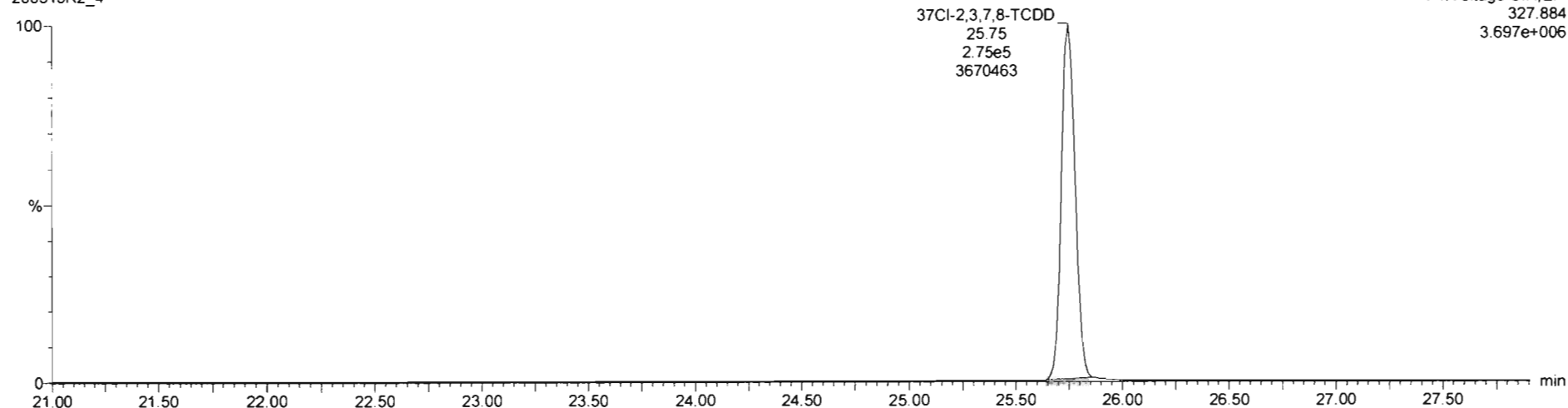
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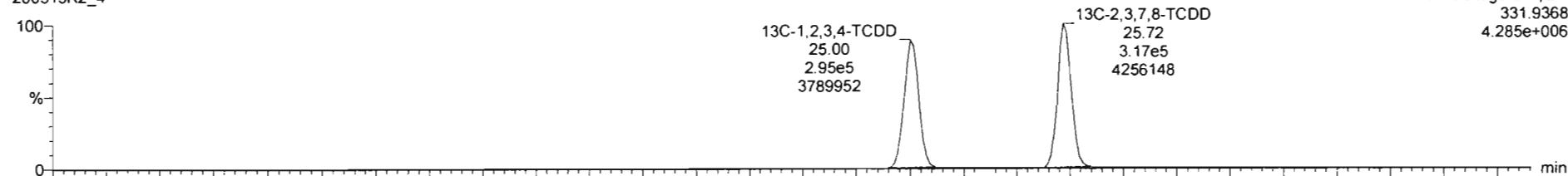
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200315R2_4

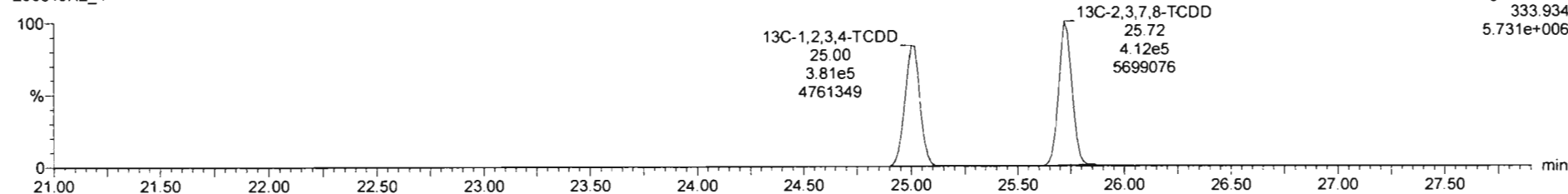


13C-1,2,3,4-TCDD

200315R2_4



200315R2_4



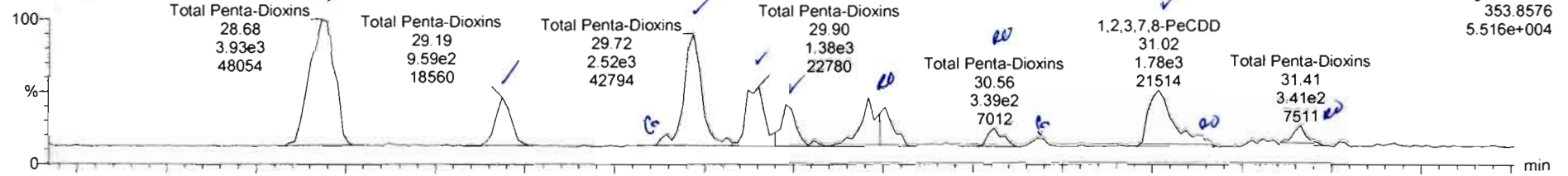
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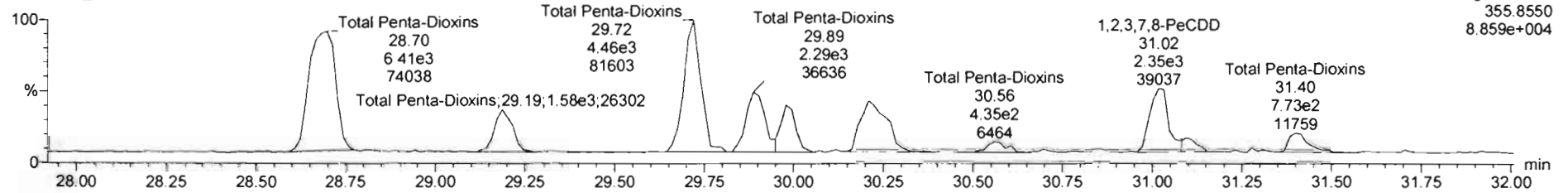
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1,2,3,7,8-PeCDD

200315R2_4

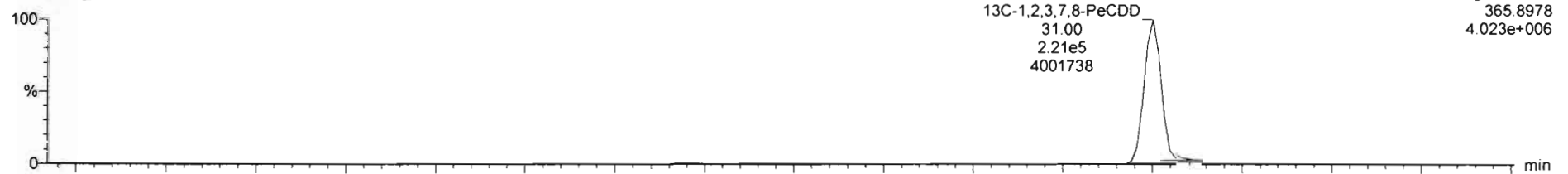


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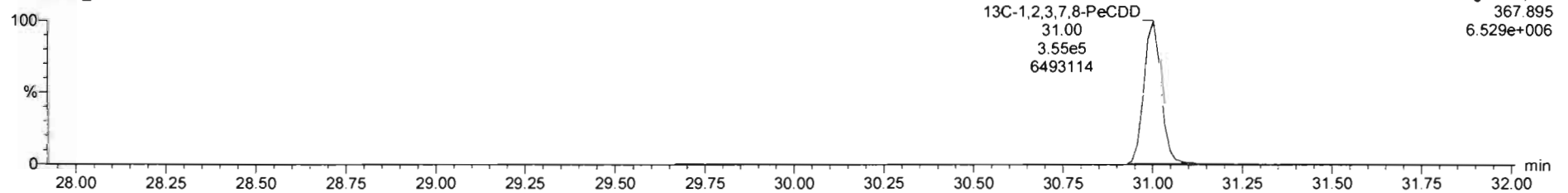


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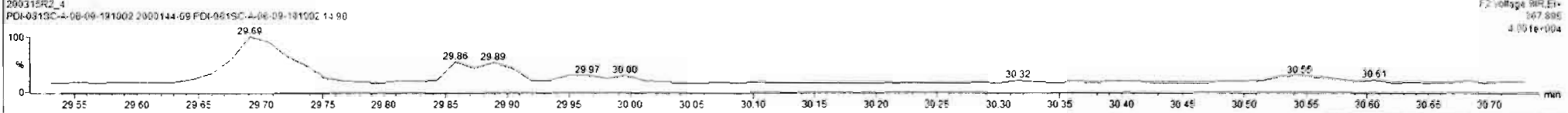
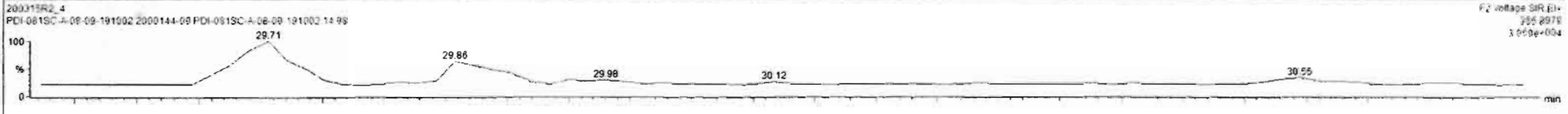
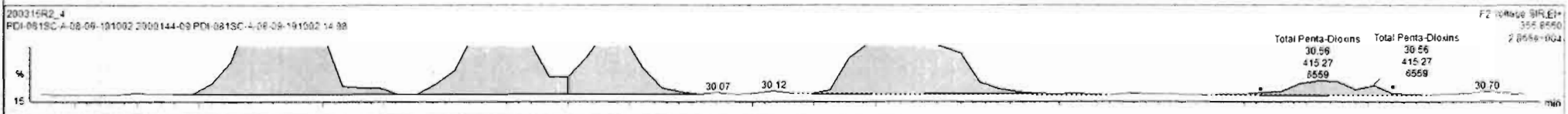
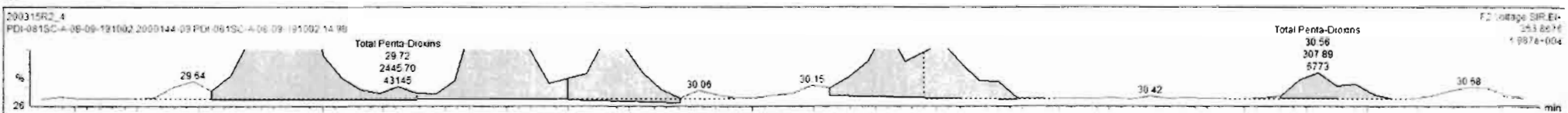


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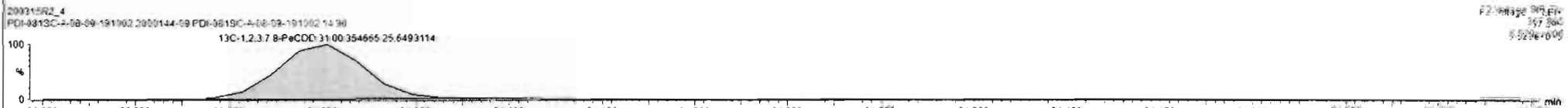
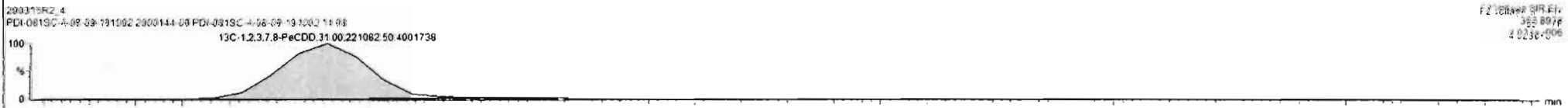
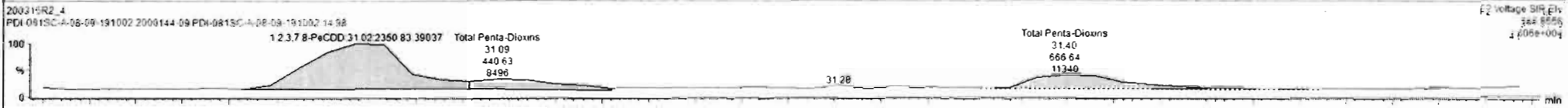
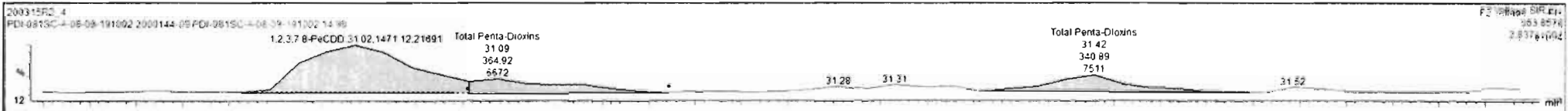
Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
38 13C-1,2,3,4,6,8-HxCDF	5.66e5	0.52	NO	1.00	10.035	33.95	1.000	159	100	0.654	
39 Total Tetra-Dioxins				0.98	10.035			9.68		0.132	11.1
40 Total Penta-Dioxins				0.92	10.035			9.85		0.106	13.0
41 Total Hexa-Dioxins				0.98	10.035			77.3		0.307	78.3

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	28.66	3.935e3	6.414e3	0.61	NO	3.8888	3.8888
2 Total Penta-Dioxins	29.15	9.592e2	1.578e3	0.61	NO	0.95321	0.95321
3 Total Penta-Dioxins	29.72	2.446e3	4.456e3	0.55	NO	2.5934	2.5934
4 Total Penta-Dioxins	29.90	1.364e3	2.292e3	0.60	NO	1.3610	1.3610
5 Total Penta-Dioxins	29.98	6.060e2	1.413e3	0.57	NO	0.83375	0.83375
6 Total Penta-Dioxins	30.21	1.369e3	2.626e2	0.52	YES	1.3310	0.00000
7 Total Penta-Dioxins	30.56	3.079e2	4.153e2	0.74	YES	0.25435	0.00000
8 1,2,3,7,8-PeCDD	31.02	1.777e3	2.351e3	0.76	YES	1.4399	0.00000
9 Total Penta-Dioxins	31.42	3.495e2	7.735e2	0.44	YES	0.35142	0.00000



Name	Resp	RA	n/y	RRF	w/w%	RT	RRT	Conc.	%Rec	DL	EMPC
38 1,2,3,4,6,8-HxCDF	5.66e5	0.52	NO	1.00	10.035	32.95	1.000	199	100	0.554	
39 Total Tetra-Dioxins				0.98	10.035			9.66		0.132	11.1
40 Total Penta-Dioxins				0.92	10.035			11.1		0.106	13.3
41 Total Hexa-Dioxins				0.98	10.035			77.31		0.307	78.3

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	28.56	3.535e3	6.414e3	0.61	NO	2.9888	3.8885
2 Total Penta-Dioxins	29.19	9.592e2	1.578e3	0.61	NO	0.95321	3.95321
3 Total Penta-Dioxins	29.72	2.446e3	4.456e2	0.56	NO	2.5934	2.5934
4 Total Penta-Dioxins	29.90	1.324e3	2.292e2	0.60	NO	1.3810	1.3810
5 Total Penta-Dioxins	29.96	6.060e2	1.413e3	0.57	NO	0.83375	0.83375
6 Total Penta-Dioxins	30.21	1.369e3	2.526e2	0.52	YES	1.3310	0.00000
7 Total Penta-Dioxins	30.56	3.079e2	4.183e2	0.74	YES	0.25435	0.00000
8 1,2,3,7,8-PeCDD	31.02	1.471e3	2.351e3	0.63	NO	1.4362	1.4362
9 Total Penta-Dioxins	31.09	3.649e2	4.405e2	0.83	YES	0.28968	0.00000
10 Total Penta-Dioxins	31.42	3.409e2	6.666e2	0.51	YES	0.13142	0.00000



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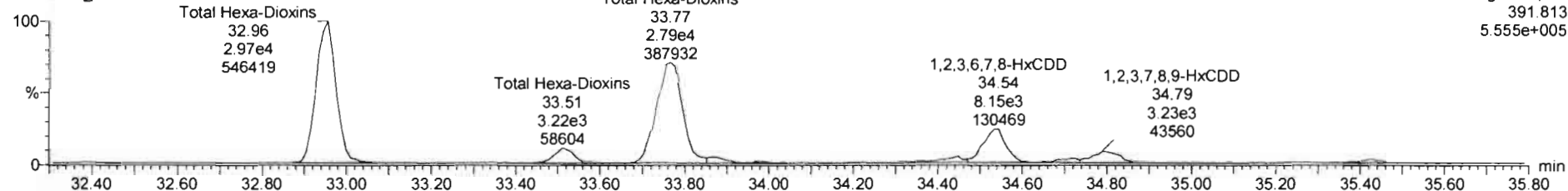
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1,2,3,4,7,8-HxCDD

200315R2_4

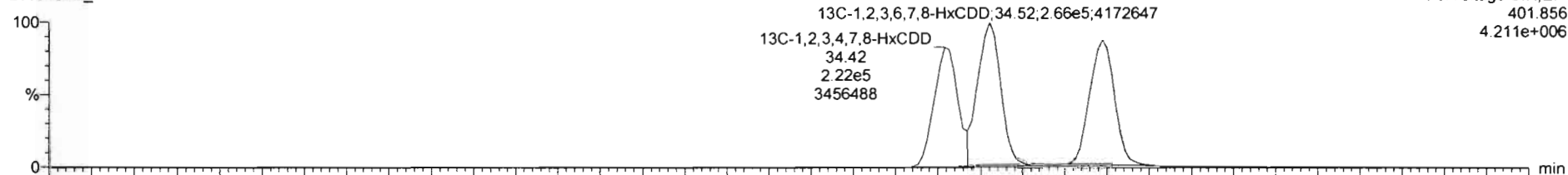


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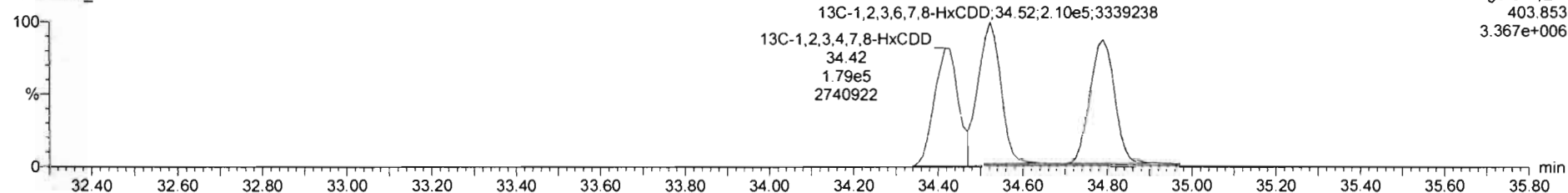


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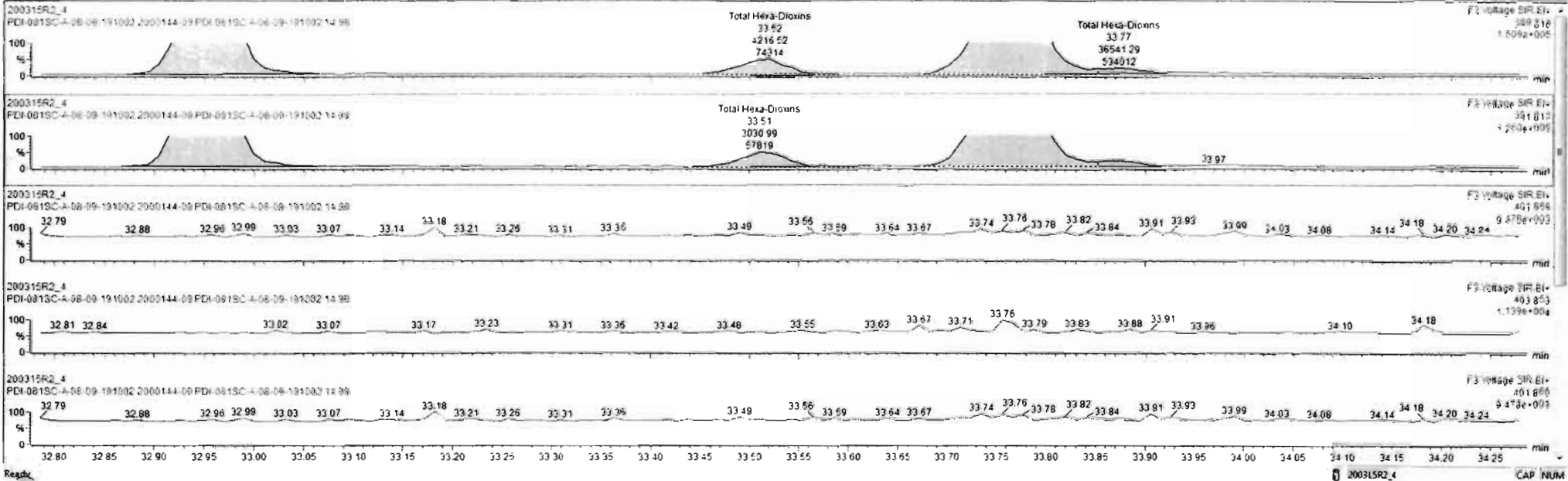


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Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.96	10.035			76.9		0.307	77.8
42 Total Hepta-Dioxins				1.01	10.035			610		1.10	610
43 Total Tetra-Furans				0.92	10.035			245		0.219	256
44 1st Func. Penta-Furans				0.96	10.035			37.0		0.0515	37.0

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	32.96	3.054e4	2.974e4	1.24	NO	30.588	30.588
2 Total Hexa-Dioxins	33.52	4.217e3	3.031e3	1.39	NO	3.3244	3.3244
3 Total Hexa-Dioxins	33.77	3.054e4	2.887e4	1.27	NO	29.912	29.912
4 1,2,3,4,7,8-HxCDD	34.43	1.550e3	1.243e3	1.25	NO	1.2250	1.2250
5 1,2,3,6,7,8-HxCDD	34.53	1.005e4	8.153e3	1.23	NO	7.7372	7.7372
6 Total Hexa-Dioxins	34.70	1.149e3	8.437e2	1.36	NO	0.91403	0.91403
7 1,2,3,7,8,9-HxCDD	34.80	3.778e3	3.228e3	1.17	NO	3.2321	3.2321
8 Total Hexa-Dioxins	35.43	1.688e3	6.686e2	2.45	YES	0.70757	0.00000



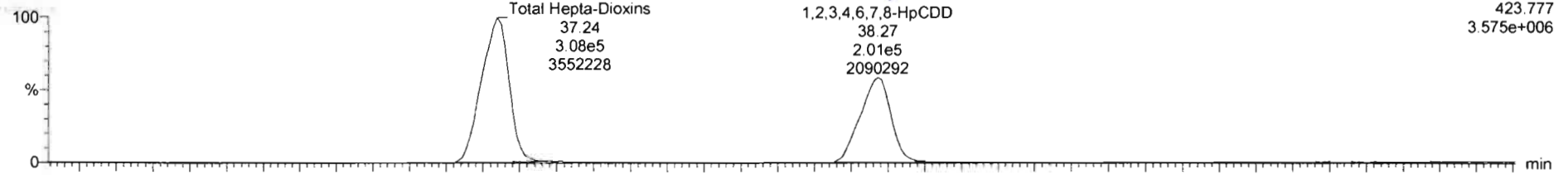
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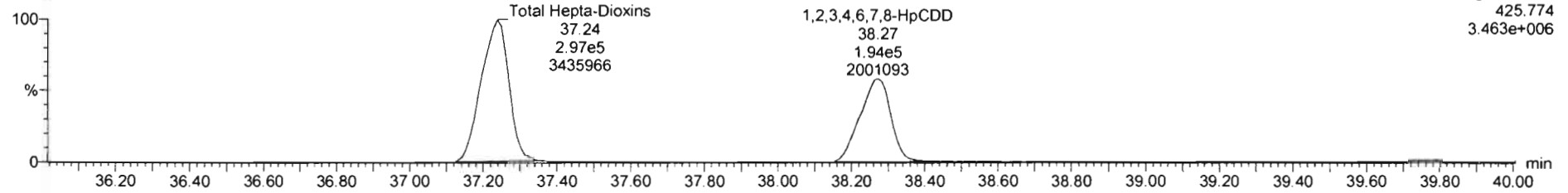
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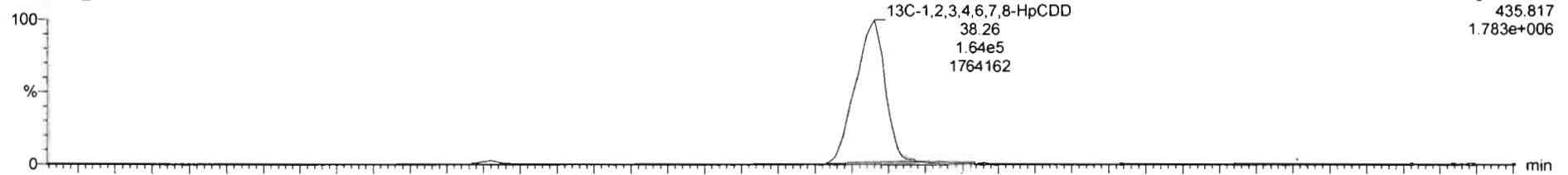
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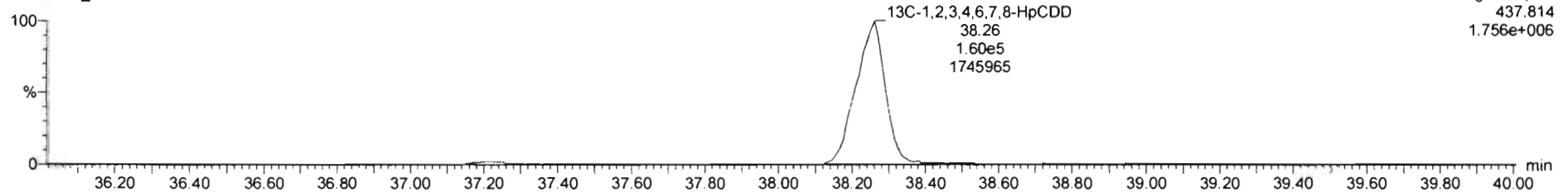
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200315R2_4



F4: Voltage SIR, EI+
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200315R2_4



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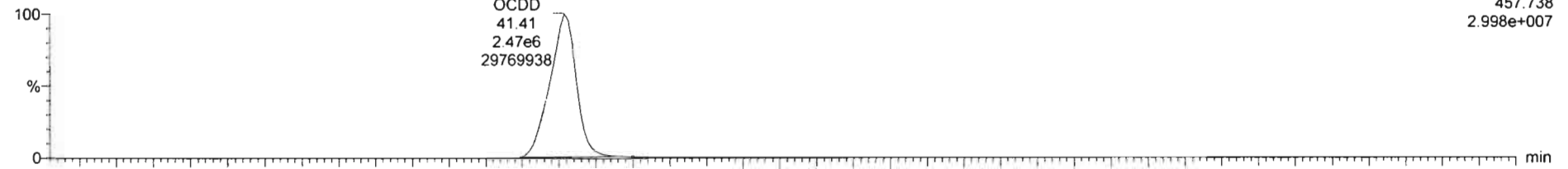
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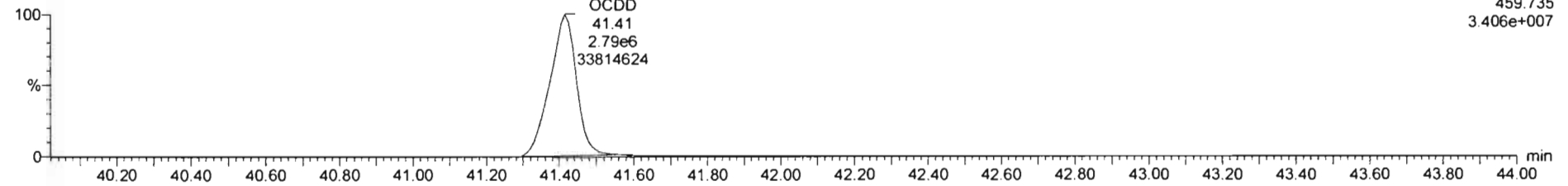
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OCDD

200315R2_4

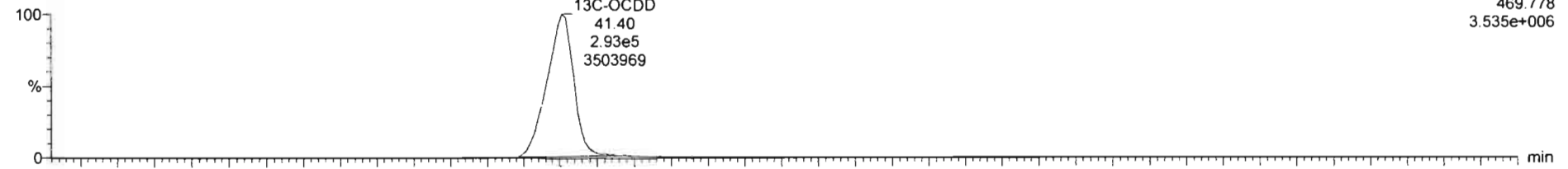


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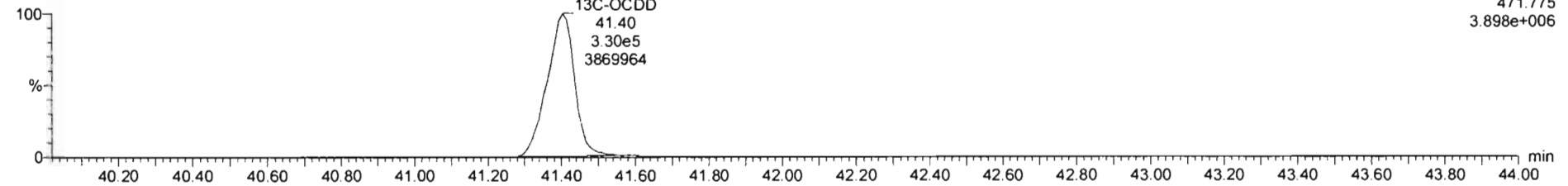


13C-OCDD

200315R2_4



200315R2_4

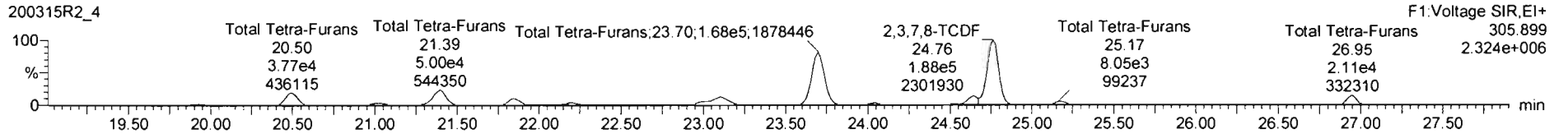
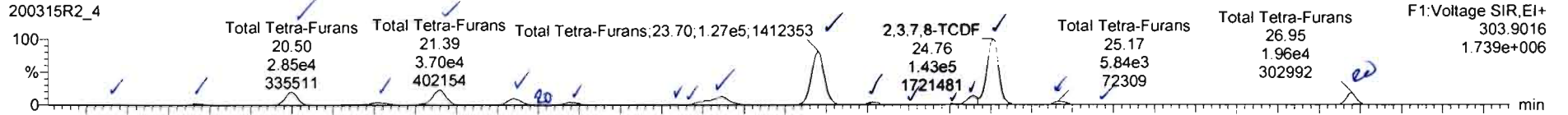


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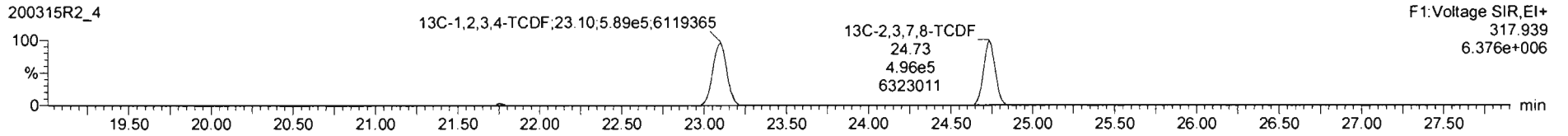
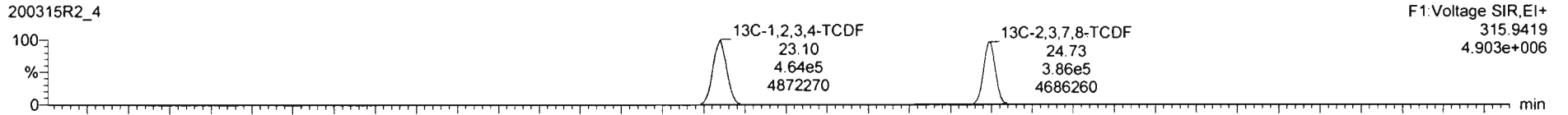
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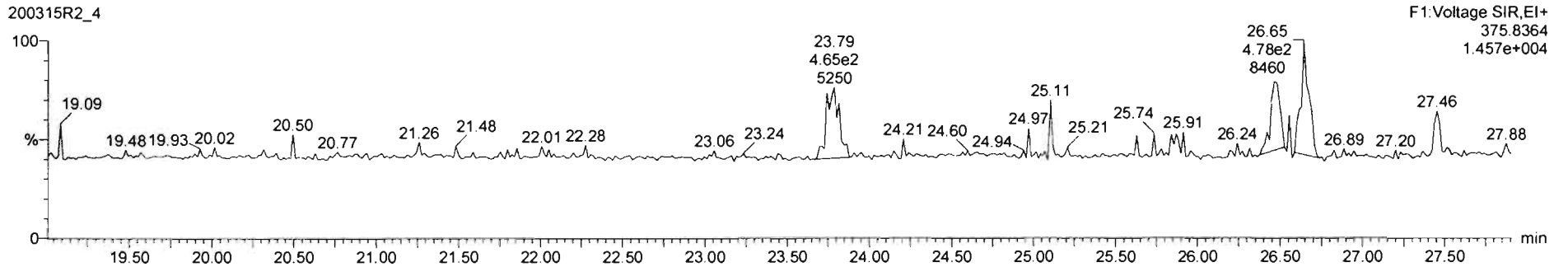
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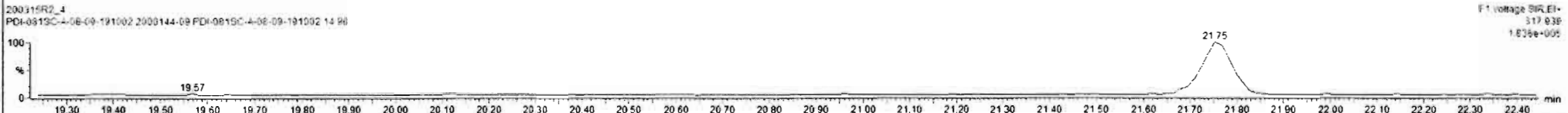
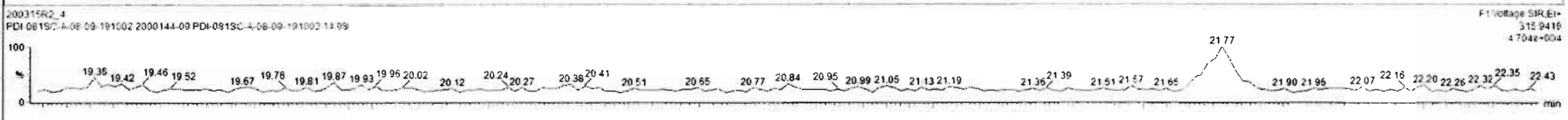
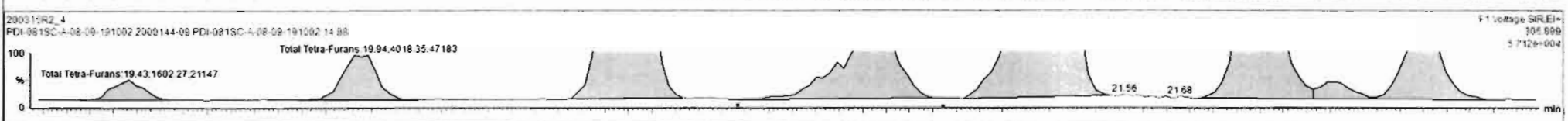
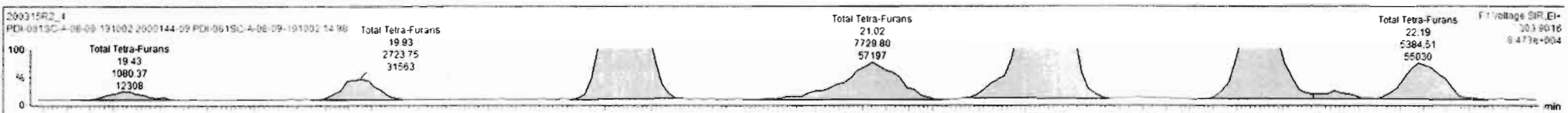


DPE1



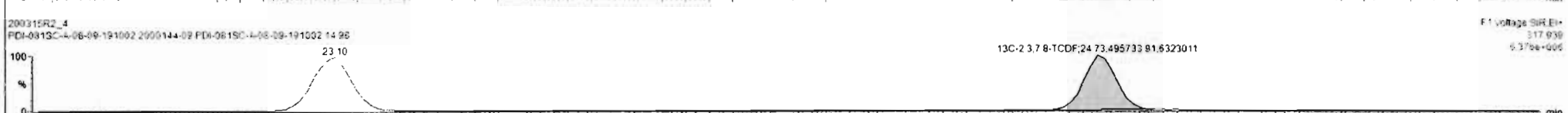
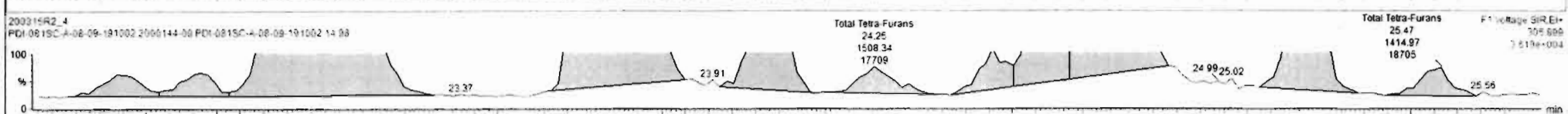
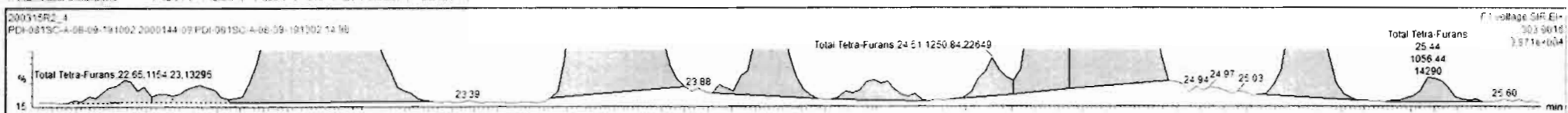
Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.98	10.035			75.9		0.307	75.9
42 Total Hepta-Dioxins				1.01	12.035			610		1.10	610
43 Total Tetra-Furans				0.92	10.035			245		0.219	256
44 1st Func. Penta-Furans				0.96	10.035			37.0		0.0515	37.0

Name	RT	m1 Reso	m2 Reso	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	19.43	1.080e3	1.602e3	0.67	NO	0.66244	0.66244
2 Total Tetra-Furans	19.93	2.724e3	4.018e3	0.68	NO	1.6649	1.6649
3 Total Tetra-Furans	20.50	2.649e4	3.774e4	0.76	NO	16.355	16.355
4 Total Tetra-Furans	21.02	7.730e3	1.052e4	0.73	NO	4.5068	4.5068
5 Total Tetra-Furans	21.40	3.704e4	5.005e4	0.74	NO	21.504	21.504
6 Total Tetra-Furans	21.64	1.479e4	1.991e4	0.74	NO	8.5688	8.5688
7 Total Tetra-Furans	22.01	8.470e2	1.400e3	0.60	YES	0.48078	0.00000
8 Total Tetra-Furans	22.19	5.355e3	7.200e3	0.75	NO	3.1075	3.1075
9 Total Tetra-Furans	22.65	1.278e3	1.353e3	1.02	YES	0.59124	0.00000
10 Total Tetra-Furans	22.62	8.157e2	1.293e3	0.63	YES	0.46304	0.00000
11 Total Tetra-Furans	23.10	3.049e4	3.896e4	0.76	NO	17.396	17.396
12 Total Tetra-Furans	23.70	1.267e5	1.685e5	0.75	NO	72.875	72.875
13 Total Tetra-Furans	24.03	4.164e3	5.571e3	0.75	NO	2.4040	2.4040
14 Total Tetra-Furans	24.24	1.140e1	1.506e1	0.76	NO	0.04601	0.04601



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.98	10.035			75.9		0.307	75.9
42 Total Hepta-Dioxins				1.01	10.035			610		1.10	610
43 Total Tetra-Furans				0.92	10.035			246		0.219	256
44 1st Func. Penta-Furans				0.96	10.035			37.0		0.0515	37.0

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	19.43	1.080e3	1.802e3	0.67	N/D	0.66244	0.66244
2 Total Tetra-Furans	19.93	2.724e3	4.018e3	0.68	N/D	1.6649	1.6649
3 Total Tetra-Furans	20.50	2.849e4	3.774e4	0.76	N/D	16.355	16.355
4 Total Tetra-Furans	21.02	7.730e3	1.052e4	0.73	N/D	4.5068	4.5068
5 Total Tetra-Furans	21.40	3.704e4	5.005e4	0.74	N/D	21.504	21.504
6 Total Tetra-Furans	21.84	1.479e4	1.991e4	0.74	N/D	8.5688	8.5688
7 Total Tetra-Furans	22.01	8.470e2	1.400e3	0.60	YES	0.48078	0.00000
8 Total Tetra-Furans	22.19	5.385e3	7.200e3	0.75	N/D	3.1075	3.1075
9 Total Tetra-Furans	22.65	1.154e3	1.353e3	0.85	N/D	0.61906	0.61906
10 Total Tetra-Furans	22.62	1.016e3	1.293e3	0.79	N/D	0.57034	0.57034
11 Total Tetra-Furans	23.10	3.049e4	3.996e4	0.76	N/D	17.396	17.396
12 Total Tetra-Furans	23.70	1.267e5	1.685e5	0.75	N/D	72.875	72.875
13 Total Tetra-Furans	24.03	4.164e3	5.571e3	0.75	N/D	2.4040	2.4040
14 Total Tetra-Furans	24.25	1.145e3	1.408e3	0.78	N/D	0.86801	0.86801



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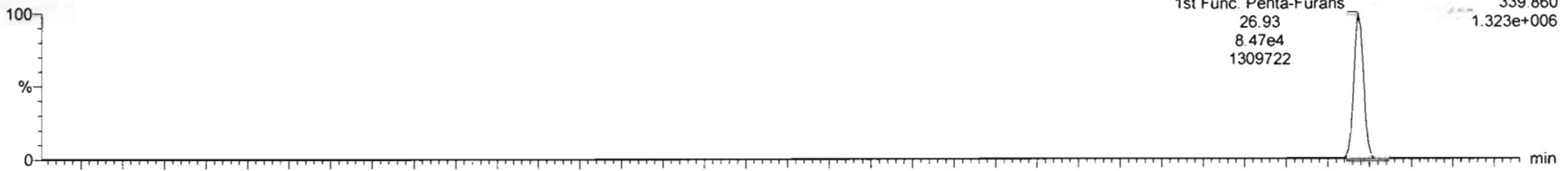
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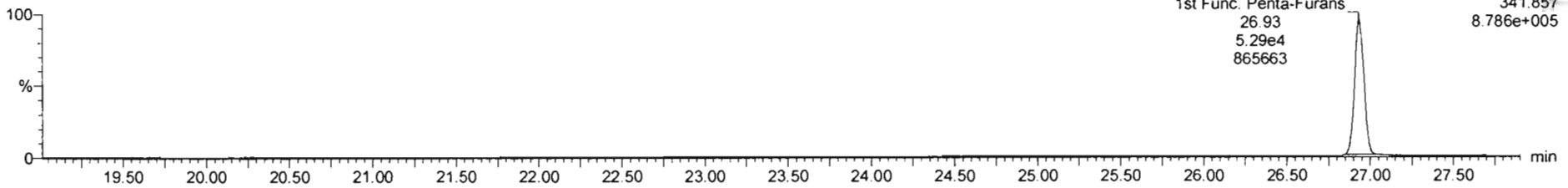
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1st Func. Penta-Furans

200315R2_4

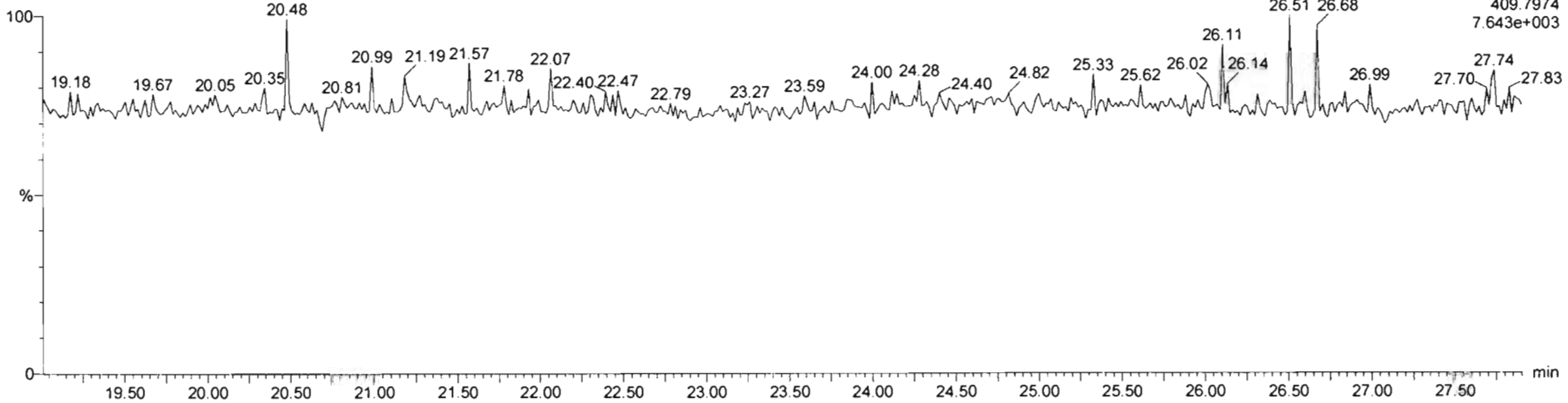


200315R2_4



DPE6

200315R2_4

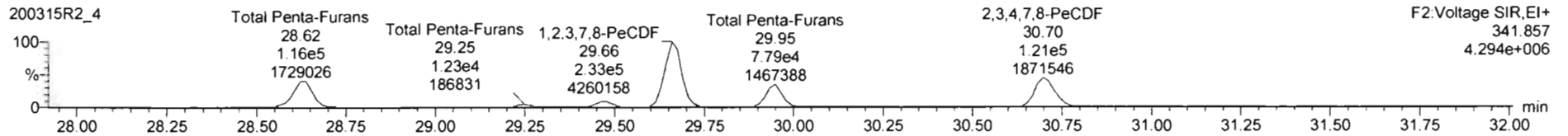
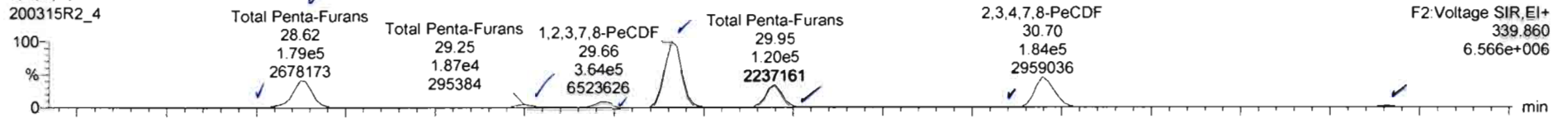


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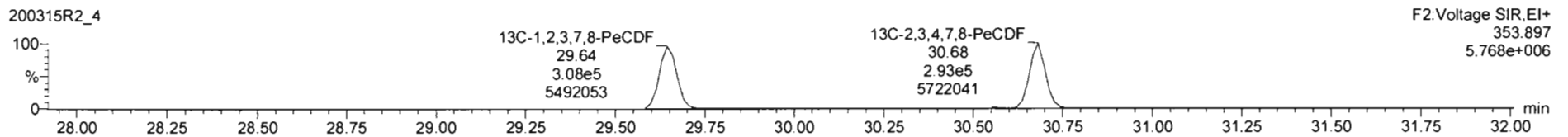
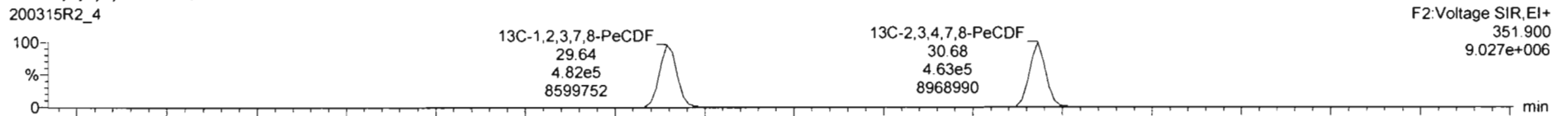
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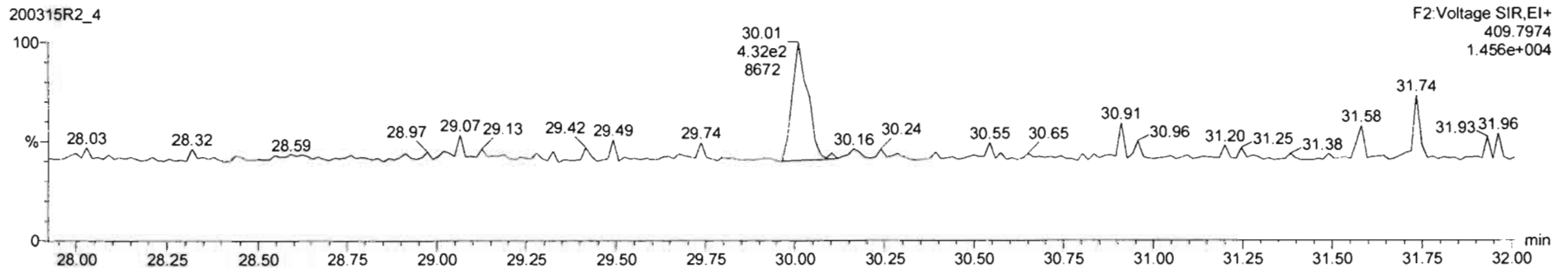
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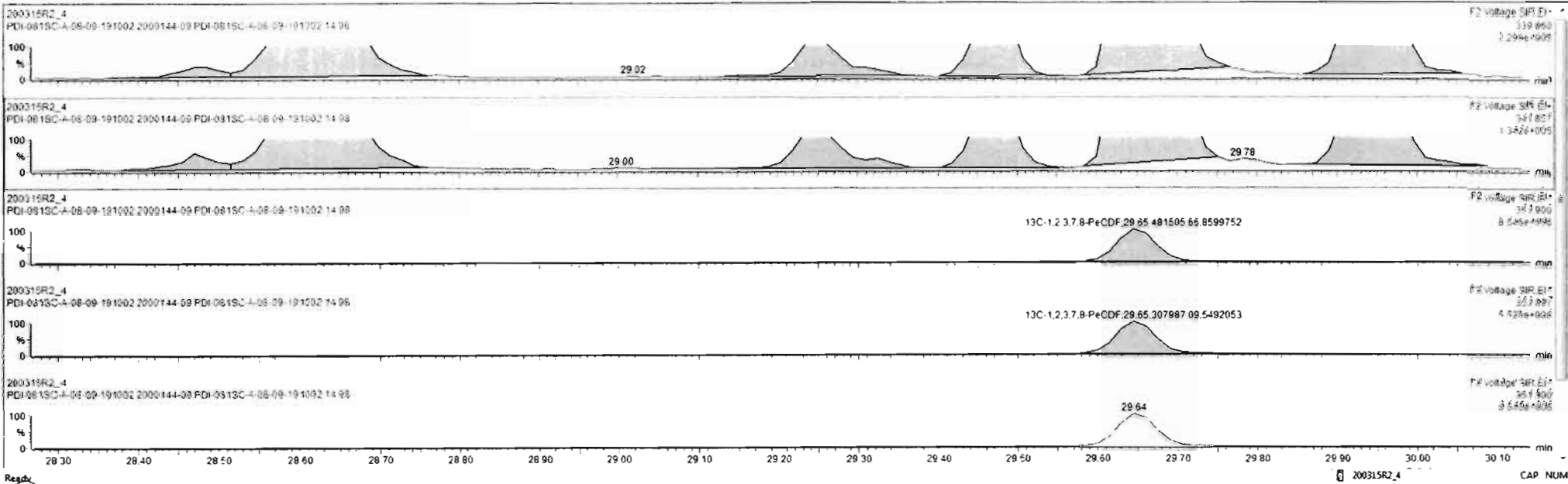


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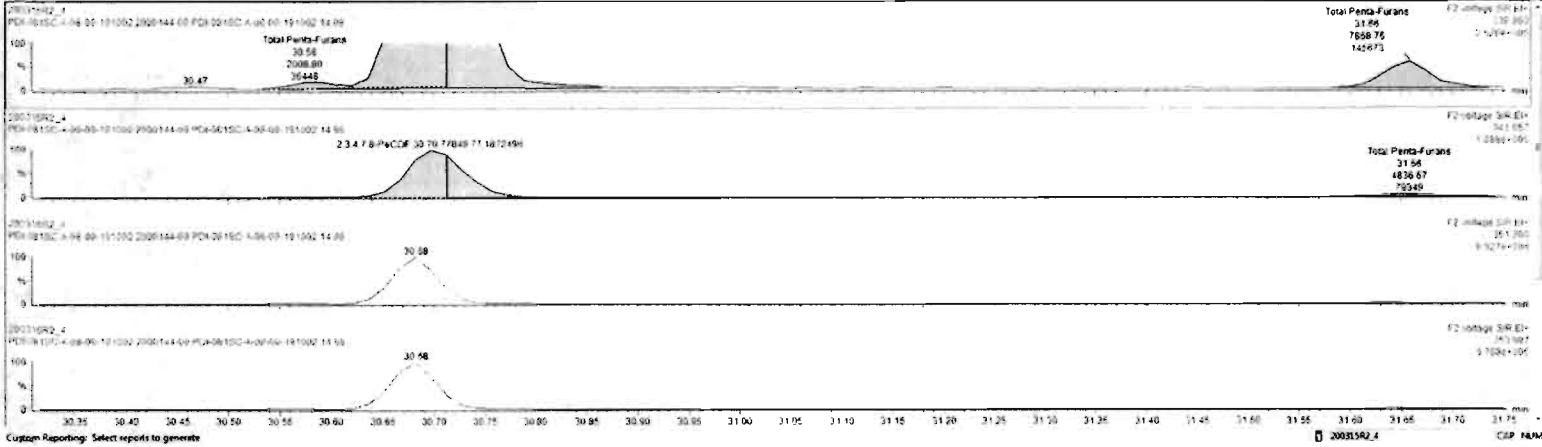


Name	Resp	RA	n/y	RFI	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.96	10.035			398		0.373	399
46 Total Hexa-Furans				1.09	10.035			554		0.336	554
47 Total Hepta-Furans				1.05	10.035			463		0.561	465
48 PFK1											

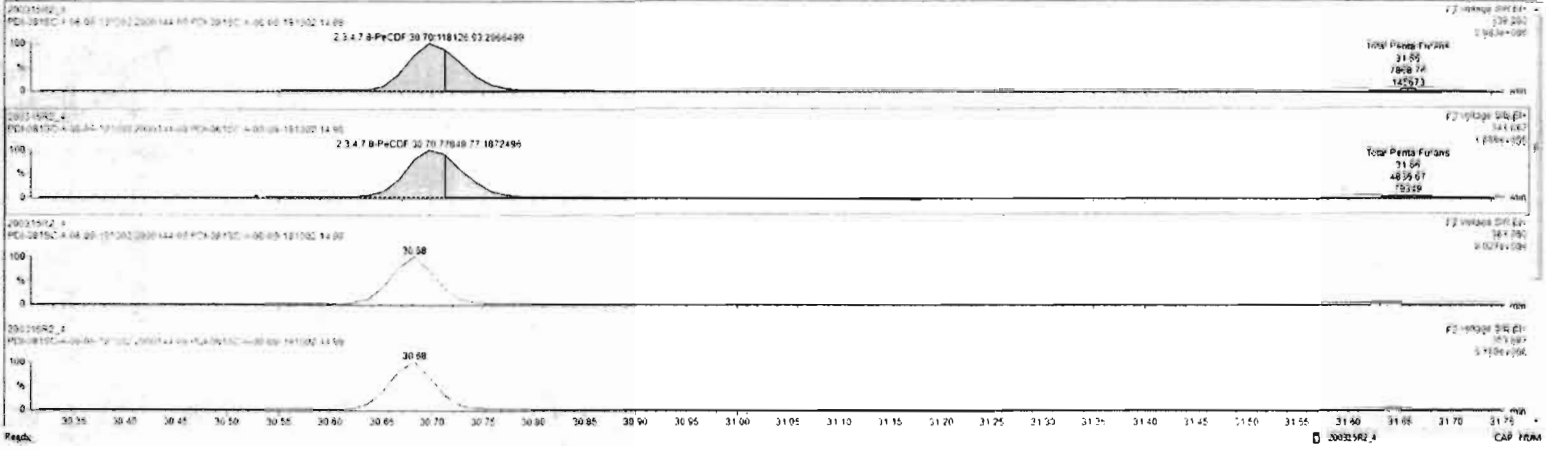
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.47	4.53e3	3.348e3	1.35	NO	2.1197	2.1197
2 Total Penta-Furans	28.62	1.791e5	1.163e5	1.54	NO	79.427	79.427
3 Total Penta-Furans	29.25	1.874e4	1.234e4	1.52	NO	8.3584	8.3584
4 Total Penta-Furans	29.48	3.153e4	2.040e4	1.55	NO	13.965	13.965
5 1,2,3,7,8-PeCDF	29.66	3.842e5	2.327e5	1.56	NO	157.08	157.08
6 Total Penta-Furans	29.95	1.203e5	7.791e4	1.54	NO	53.288	53.288
7 Total Penta-Furans	30.47	5.267e2	2.735e2	1.93	YES	0.18755	0.00000
8 Total Penta-Furans	30.56	1.530e3	1.240e3	1.23	YES	0.67875	0.00000
9 2,2',4,7,8-PeCDF	30.70	1.840e5	1.211e5	1.52	NO	80.217	80.217
10 Total Penta-Furans	31.66	7.869e3	4.837e3	1.62	NO	3.4165	3.4165
11 Total Penta-Furans	31.78	1.088e3	4.232e2	2.36	YES	0.29021	0.00000



Name	Resp	RA	RY	RPF	wtFrac	RT	RST	Conc	%Rec	DL	EMPC
38	1TC-1,2,3 & 5-mxCDF	5.98e1	0.52	100	1.00	10.035	33.96	1.200			
39	Total Tetra-Dioxins				3.98	10.035					
40	Total Penta-Dioxins				3.92	10.035					
41	Total Hexa-Dioxins				3.98	10.035					
42	Total Hepta-Dioxins				1.01	10.035					
43	Total Tetra-Furans				3.92	10.035					
44	Total Penta-Furans				3.96	10.035					
45	Total Hexa-Furans				3.96	10.035					
46	Total Hepta-Furans				1.05	10.035					
47	Total Octa-Furans				1.05	10.035					
48	PFK1										
49	PFK2										
50	PFK3										
51	PFK4										
52	PFK5										
53	DPE1										
54	DPE2										
55	DPE3										
56	DPE4										
57	DPE5										
58	DPE6										



PL	Name	Resp	RA	Hy	RRF	WtWtr	RT	RRT	Conc	%Rec	DL	EMPC
36	13C-1,2,3,4,5-hexCDF	5.86e1	0.52	1.00	10.036	33.95	1.200					
38	Total Tetra-Dioxins				2.96	10.036						
40	Total Penta-Dioxins				0.92	10.036						
41	Total Hexa-Dioxins				0.86	10.036						
42	Total Hepta-Dioxins				1.01	10.036						
43	Total Tetra-Furans				0.92	10.035						
44	1st Func. Penta-Furans				0.96	10.035						
45	Total Penta-Furans				0.96	10.035						
46	Total Hexa-Furans				1.09	10.035						
47	Total Hepta-Furans				1.02	10.035						
48	PF1											
49	PF2											
50	PF3											
51	PF4											
52	PF5											
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55	DPE3											
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58	DPE6											



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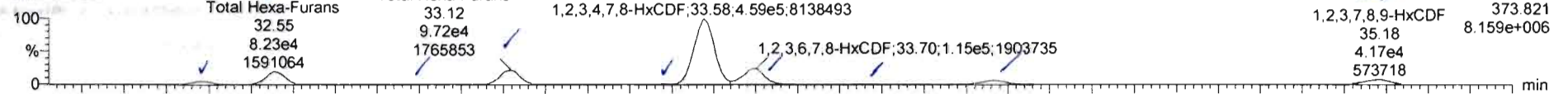
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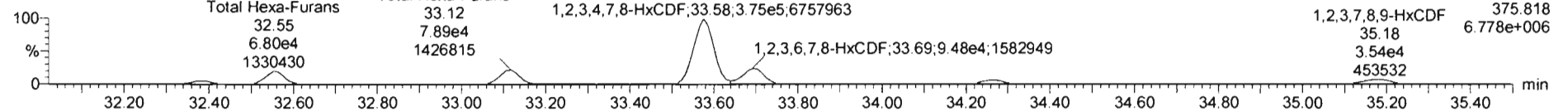
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1,2,3,4,7,8-HxCDF

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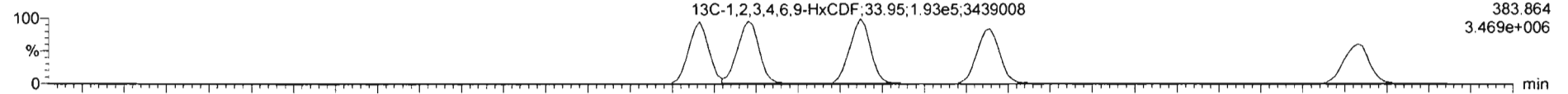


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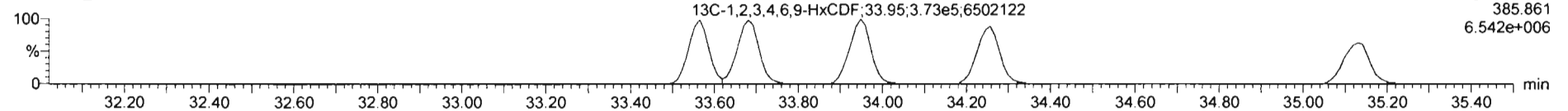


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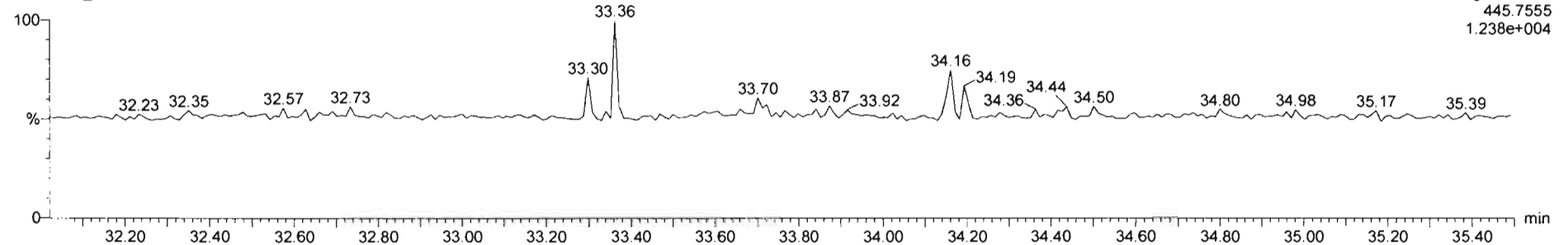


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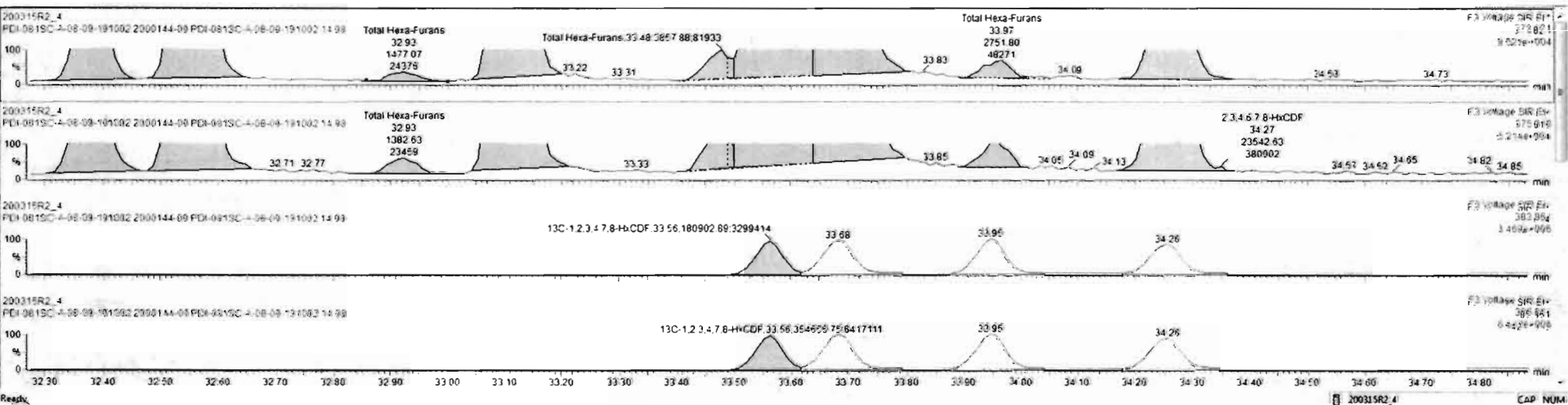
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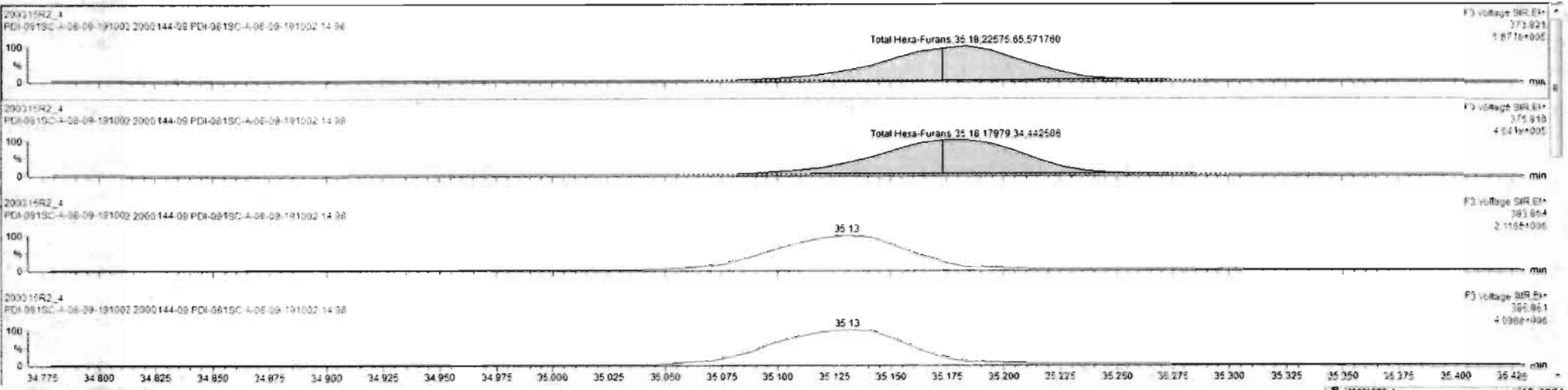
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36 13C-1,2,3,4,6,9-HxCDF	5.66e5	0.52	NO	1.00	10.035	33.95	1.000	199	100	0.554	
39 Total Tetra-Dioxins				0.96	10.035			9.68		0.132	11.1
40 Total Penta-Dioxins				0.92	10.035			11.1		0.108	12.8
41 Total Hexa-Dioxins				0.98	10.035			76.9		0.307	76.9
42 Total Hepta-Dioxins				1.01	10.035			610		1.18	610
43 Total Tetra-Furans				0.92	10.035			248		0.219	258
44 1st Func. Penta-Furans				0.96	10.035			37.0		0.0515	37.0
45 Total Penta-Furans				0.96	10.035			400		0.373	400
46 Total Hexa-Furans				1.09	10.035			953		0.338	563
47 Total Hepta-Furans				1.05	10.035			463		0.561	463

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.38	2.062e4	1.692e4	1.22	NO	13.108	12.108
2 Total Hexa-Furans	32.55	6.235e4	6.604e4	1.21	NO	52.437	52.437
3 Total Hexa-Furans	32.63	1.477e3	1.383e3	1.07	NO	0.96714	2.69714
4 Total Hexa-Furans	33.12	9.724e4	7.895e4	1.23	NO	61.436	61.436
5 Total Hexa-Furans	33.48	3.858e3	2.835e3	1.36	NO	2.3338	2.3336
6 1,2,3,4,7,8-HxCDF	33.56	4.580e5	3.746e5	1.22	NO	298.51	298.51
7 1,2,3,6,7,8-HxCDF	33.70	1.155e5	9.478e4	1.22	NO	70.961	70.961
8 Total Hexa-Furans	33.97	2.752e3	2.105e3	1.31	NO	1.8934	1.6934
9 2,3,4,6,7,8-HxCDF	34.27	2.908e4	2.354e4	1.24	NO	17.918	17.918
10 1,2,3,7,8,9-HxCDF	35.18	4.166e4	3.542e4	1.16	NO	34.077	34.077



Name	Resp	RA	nly	RRF	wfvol	RT	RRT	Conc.	%Rec	DL	EMPC
38 13C-1,2,3,4,6,9-HxCDF	5.86e5	0.52	NO	1.00	10.035	32.95	1.000	159	100	0.554	
39 Total Tetra-Dioxins				0.92	10.035			9.66		0.132	11.1
40 Total Penta-Dioxins				0.52	10.035			11.1		0.106	12.8
41 Total Hexa-Dioxins				0.98	10.035			76.9		0.307	76.9
42 Total Hepta-Dioxins				1.01	10.035			6.10		1.10	6.10
43 Total Tetra-Furans				0.92	10.035			248		0.219	256
44 1st Func. Penta-Furans				0.96	10.035			37.0		0.0516	37.0
45 Total Penta-Furans				0.96	10.035			400		0.373	400
46 Total Hexa-Furans				1.09	10.035			549		0.338	549
47 Total Hepta-Furans				1.05	10.035			463		0.561	463

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Hexa-Furans	32.36	2.068e4	1.692e4	1.22	NO	12.108	12.108
2 Total Hexa-Furans	32.55	8.235e4	6.604e4	1.21	NO	52.437	52.437
3 Total Hexa-Furans	32.93	1.477e3	1.383e3	1.07	NO	0.99714	0.99714
4 Total Hexa-Furans	33.12	5.724e4	7.895e4	1.23	NO	61.436	61.436
5 Total Hexa-Furans	33.46	3.858e3	2.635e3	1.36	NO	2.3338	2.3338
6 1,2,3,4,7,8-HxCDF	33.56	4.580e5	3.746e5	1.22	NO	298.51	298.51
7 1,2,3,6,7,8-HxCDF	33.70	1.155e5	9.476e4	1.22	NO	70.961	70.961
8 Total Hexa-Furans	33.97	2.752e3	2.105e3	1.31	NO	1.6934	1.6934
9 2,3,4,6,7,8-HxCDF	34.27	2.508e4	2.354e4	1.24	NO	17.918	17.918
10 1,2,3,7,8,9-HxCDF	35.17	1.891e4	1.553e4	1.22	NO	15.227	15.227
11 Total Hexa-Furans	35.18	2.250e4	1.798e4	1.26	NO	14.141	14.141



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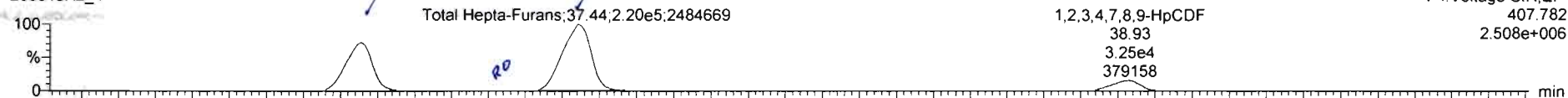
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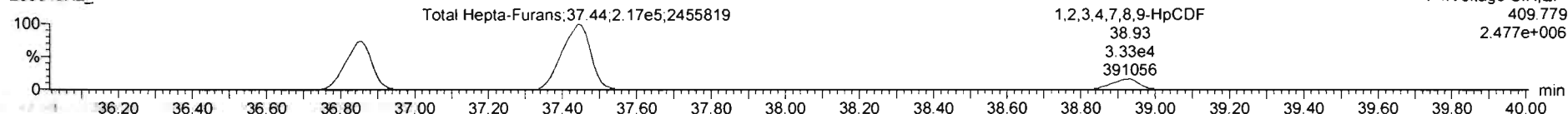
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1,2,3,4,6,7,8-HpCDF

200315R2_4



200315R2_4

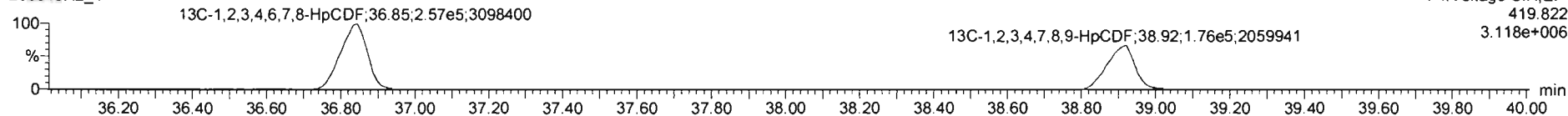


13C-1,2,3,4,6,7,8-HpCDF

200315R2_4

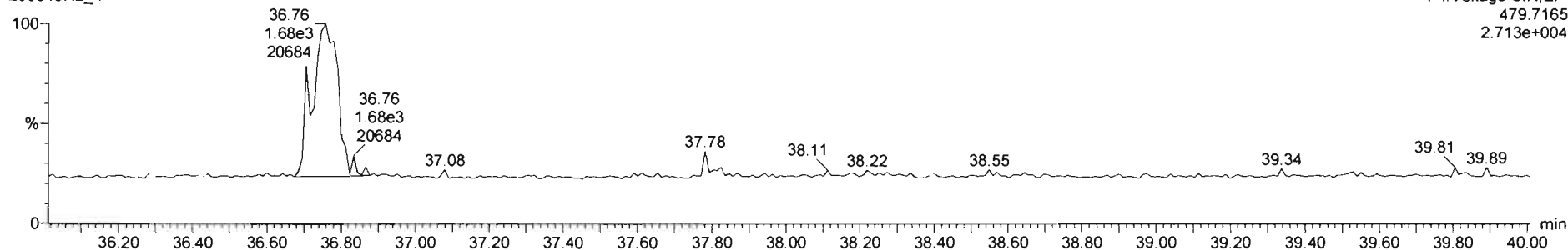


200315R2_4



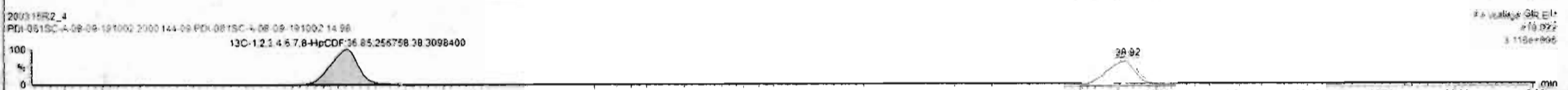
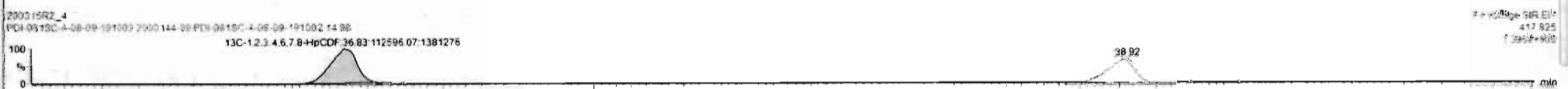
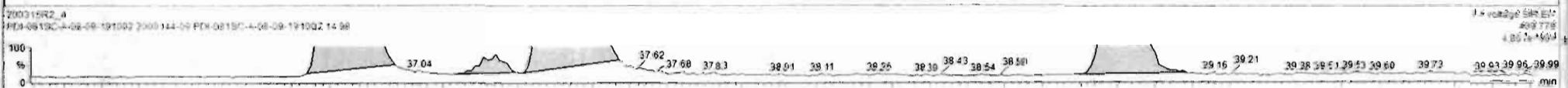
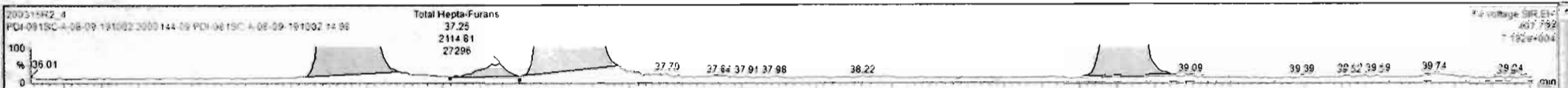
DPE4

200315R2_4



Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
38 1,2,3,4,6,7,8-HpCDF	5.66e5	0.52	NO	1.00	10.035	33.95	1.000	199	100	0.554	
39 Total Tetra-Dioxins				0.98	10.035			9.66		0.132	11.1
40 Total Penta-Dioxins				0.92	10.035			11.1		0.106	12.8
41 Total Hexa-Dioxins				0.98	10.035			75.9		0.307	76.9
42 Total Hepta-Dioxins				1.01	10.035			610		1.10	610
43 Total Tetra-Furans				0.92	10.035			246		0.219	256
44 1st Func. Penta-Furans				0.96	10.035			37.0		0.0515	37.0
45 Total Penta-Furans				0.96	10.035			400		0.373	400
46 Total Hexa-Furans				1.09	10.035			549		0.338	549
47 Total Hepta-Furans				1.05	10.035			653		0.561	653

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	36.86	1.480e5	1.474e5	1.00	NO	152.06	152.06
2 Total Hepta-Furans	37.25	2.115e3	1.722e3	1.23	YES	2.1479	0.00000
3 Total Hepta-Furans	37.44	2.204e5	2.173e5	1.01	NO	267.61	267.61
4 1,2,3,4,7,8-HpCDF	38.53	3.249e4	3.326e4	0.98	NO	42.889	42.889



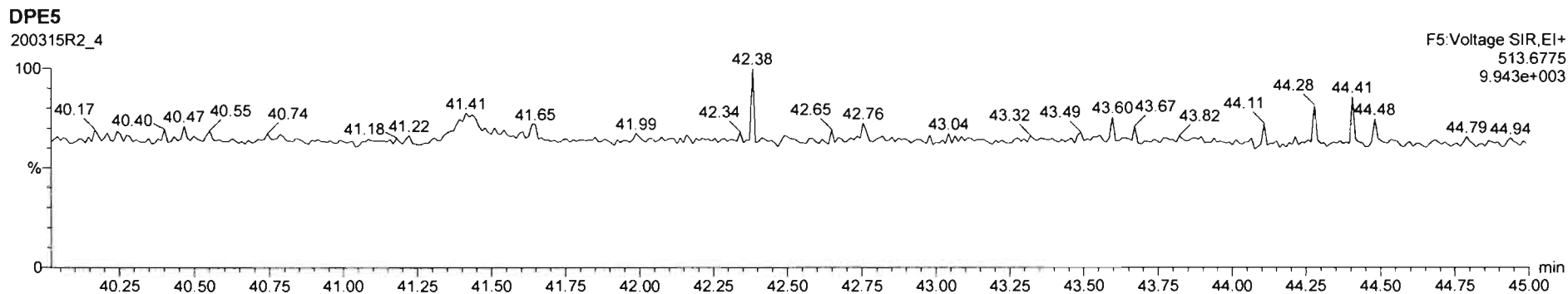
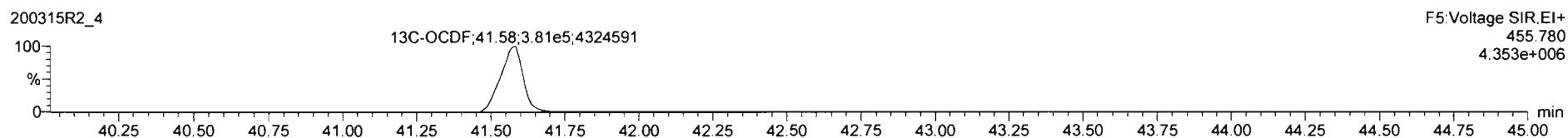
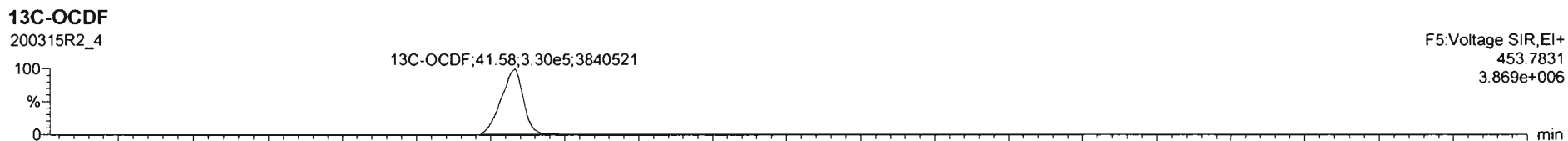
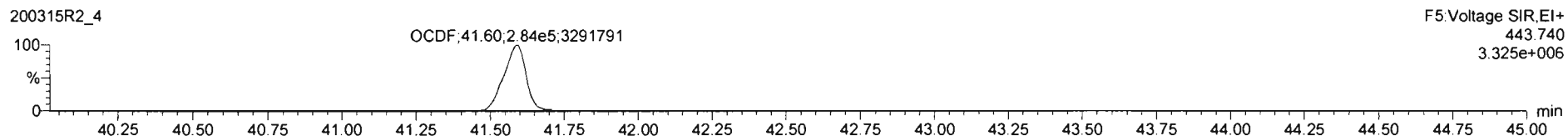
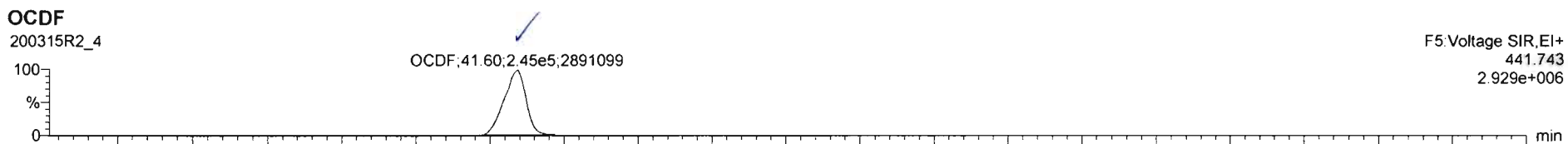
Vista Analytical Laboratory

Dataset: Untitled

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Printed: Monday, March 16, 2020 08:51:00 Pacific Daylight Time

Name: 200315R2_4, Date: 15-Mar-2020, Time: 02:22:25, ID: 2000144-09 PDI-081SC-A-08-09-191002 14.98, Description: PDI-081SC-A-08-09-191002



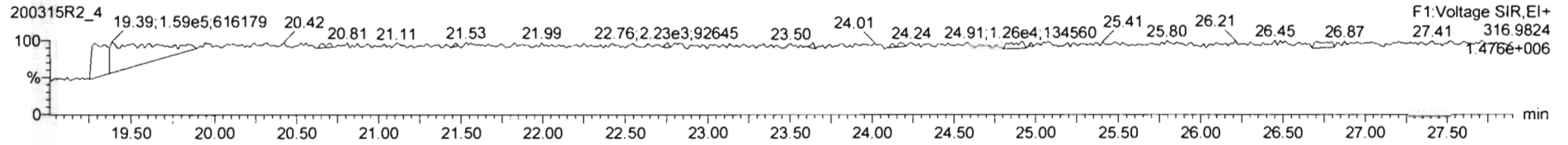
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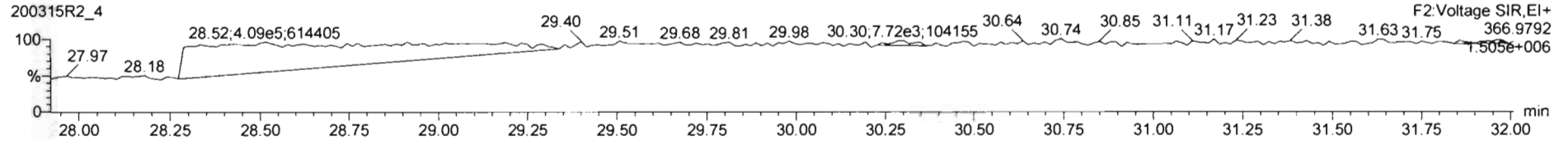
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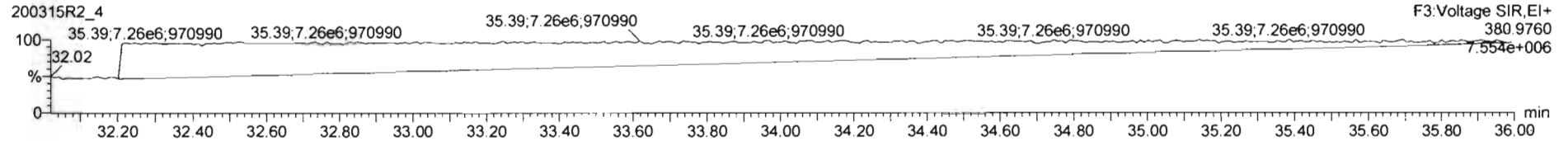
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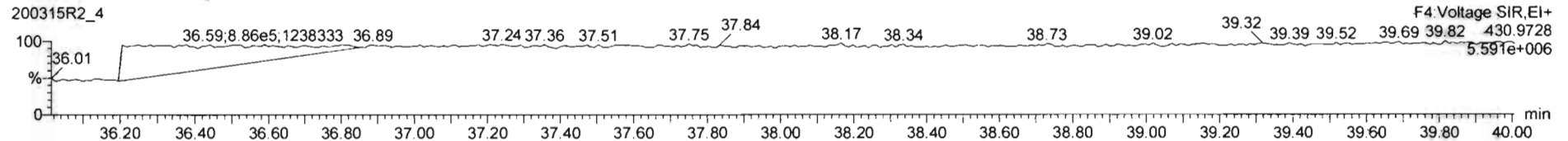
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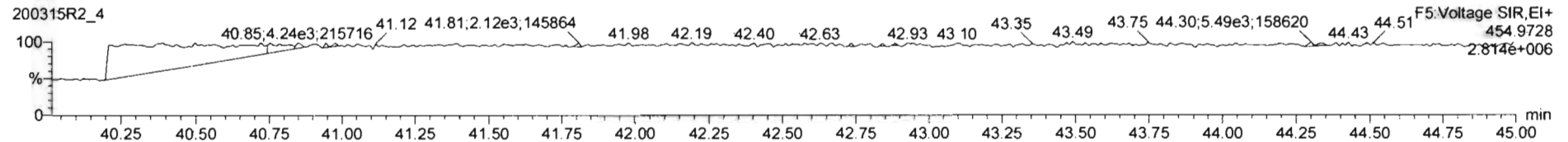
PFK3



PFK4



PFK5



Dataset: U:\VG7.PRO\Results\200320D1\200320D1_11.qld

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Printed: Friday, March 20, 2020 16:36:28 Pacific Daylight Time

DB 3/20/20 C703/20/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 20 Mar 2020 11:48:01

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200320D1_11, Date: 20-Mar-2020, Time: 16:07:21, ID: 2000144-09RE1 PDI-081SC-A-08-09-191002 14.98, Description: PDI-081SC-A-08-09-191002

	# 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	3.37e3	0.78	NO	0.982	10.035	17.154	17.16	1.000	1.001	61.488		3.46	61.5
2	2 13C-2,3,7,8-TCDF	1.11e4	0.67	NO	1.08	10.035	17.142	17.13	1.133	1.133	167.28	83.9	8.88	
3	3 13C-1,2,3,4-TCDF	1.22e4	0.68	NO	1.00	10.035	15.080	15.12	1.000	1.000	199.31	100	9.62	

Dataset: U:\VG7.PRO\Results\200320D1\200320D1_11.qld

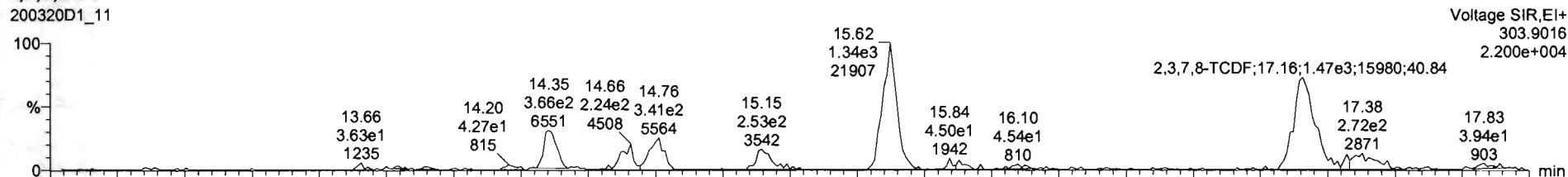
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Printed: Friday, March 20, 2020 16:35:21 Pacific Daylight Time

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Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

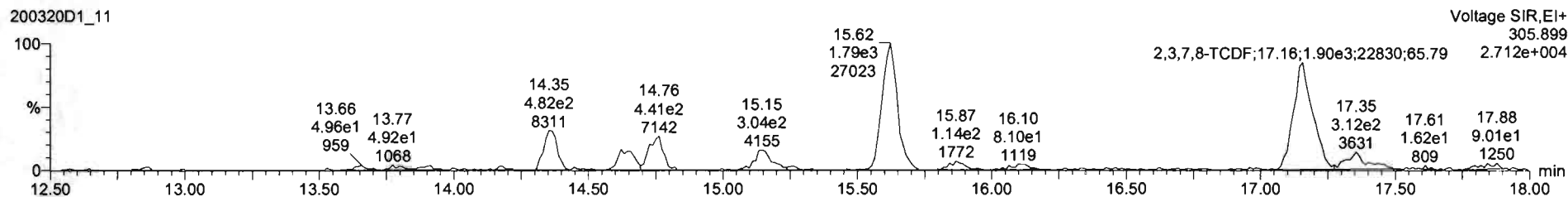
Name: 200320D1_11, Date: 20-Mar-2020, Time: 16:07:21, ID: 2000144-09RE1 PDI-081SC-A-08-09-191002 14.98, Description: PDI-081SC-A-08-09-191002

2,3,7,8-TCDF

200320D1_11

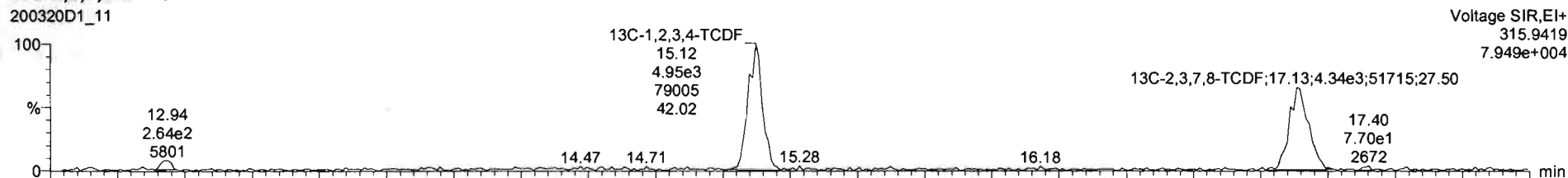


200320D1_11

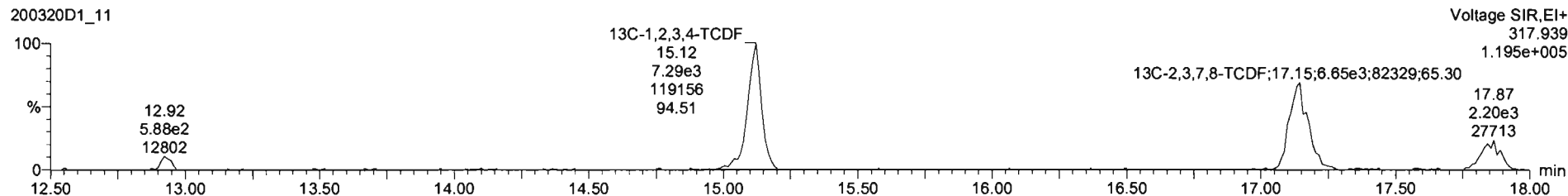


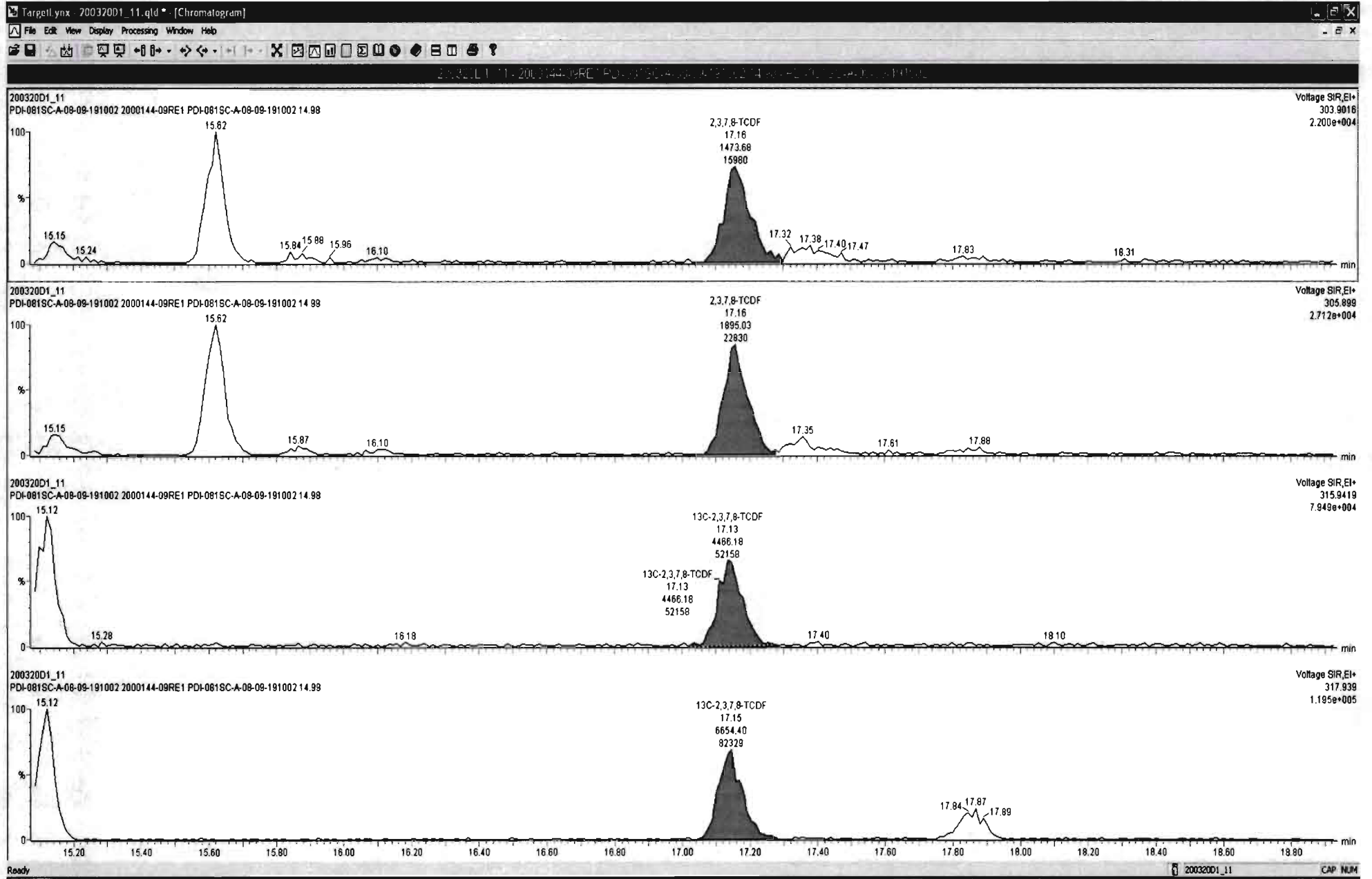
13C-2,3,7,8-TCDF

200320D1_11



200320D1_11





Dataset: U:\VG7.PRO\Results\200320D1\200320D1_11.qld

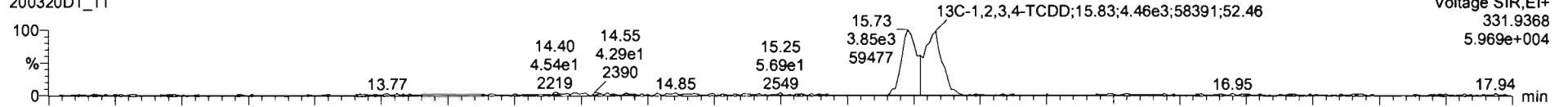
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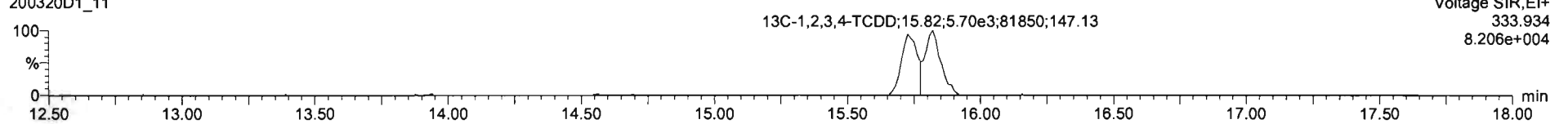
13C-1,2,3,4-TCDD

200320D1_11



Voltage SIR,EI+
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5.969e+004

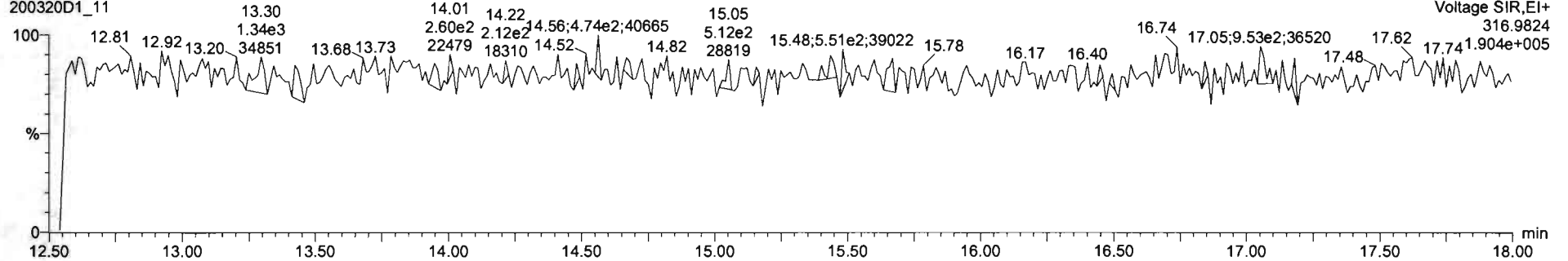
200320D1_11



Voltage SIR,EI+
333.934
8.206e+004

PFK1

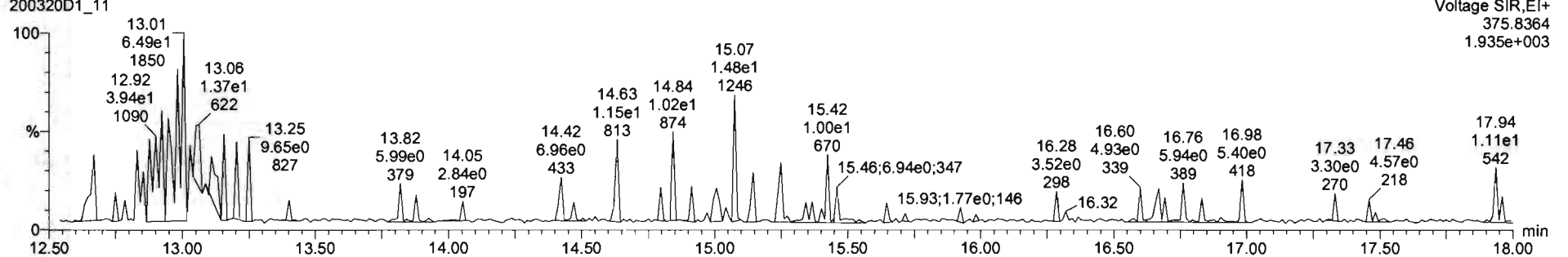
200320D1_11



Voltage SIR,EI+
316.9824
1.935e+005

DPE1

200320D1_11



Voltage SIR,EI+
375.8364
1.935e+003

Dataset: U:\VG12.PRO\Results\200315R2\200315R2-5.qld

Last Altered: Wednesday, March 25, 2020 09:47:57 Pacific Daylight Time

Printed: Wednesday, March 25, 2020 10:05:00 Pacific Daylight Time

03/25/2020

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

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

03/26/2020

Name: 200315R2_5, Date: 16-Mar-2020, Time: 03:10:00, ID: 2000144-10 PDI-081SC-A-09-10-191002 16.34, Description: PDI-081SC-A-09-10-191002

#	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	4.39e3	8.25e5	0.600	YES	10.07	25.77	25.78	1.00	1.00	NO	1.0746		0.128	0.92609
2	2 1,2,3,7,8-PeCDD	5.46e3	6.61e5	0.590	NO	10.07	31.04	31.03	1.00	1.00	NO	1.7809		0.142	1.7809
3	3 1,2,3,4,7,8-HxCDD	4.82e3	4.66e5	1.320	NO	10.07	34.45	34.44	1.00	1.00	NO	1.8124		0.202	1.8124
4	4 1,2,3,6,7,8-HxCDD	2.54e4	5.64e5	1.274	NO	10.07	34.53	34.54	1.00	1.00	NO	9.1030		0.190	9.1030
5	5 1,2,3,7,8,9-HxCDD	9.67e3	5.21e5	1.322	NO	10.07	34.81	34.81	1.00	1.00	NO	3.8142		0.224	3.8142
6	6 1,2,3,4,6,7,8-HpCDD	4.35e5	3.48e5	1.029	NO	10.07	38.28	38.29	1.00	1.00	NO	247.25		0.936	247.25
7	7 OCDD	4.32e6	5.18e5	0.891	NO	10.07	41.42	41.42	1.00	1.00	NO	3154.4		0.925	3154.4
8	8 2,3,7,8-TCDF	8.47e5	9.72e5	0.757	NO	10.07	24.77	24.78	1.00	1.00	NO	188.95	(144)	0.274	188.95
9	9 1,2,3,7,8-PeCDF	1.22e6	9.20e5	1.534	NO	10.07	29.68	29.69	1.00	1.00	NO	275.18		0.305	275.18
10	10 2,3,4,7,8-PeCDF	4.23e5	8.76e5	1.525	NO	10.07	30.70	30.71	1.00	1.00	NO	95.542		0.268	95.542
11	11 1,2,3,4,7,8-HxCDF	1.09e6	6.22e5	1.210	NO	10.07	33.58	33.59	1.00	1.00	NO	335.67		0.250	335.67
12	12 1,2,3,6,7,8-HxCDF	2.99e5	6.68e5	1.233	NO	10.07	33.70	33.70	1.00	1.00	NO	87.960		0.251	87.960
13	13 2,3,4,6,7,8-HxCDF	8.68e4	6.27e5	1.232	NO	10.07	34.30	34.28	1.00	1.00	NO	25.205		0.259	25.205
14	14 1,2,3,7,8,9-HxCDF	4.61e4	5.17e5	1.131	NO	10.07	35.14	35.18	1.00	1.00	NO	17.251		0.375	17.251
15	15 1,2,3,4,6,7,8-HpCDF	2.93e5	4.21e5	1.015	NO	10.07	36.90	36.87	1.00	1.00	NO	132.02		0.452	132.02
16	16 1,2,3,4,7,8,9-HpCDF	9.52e4	3.04e5	1.007	NO	10.07	38.93	38.94	1.00	1.00	NO	51.477		0.568	51.477
17	17 OCDF	5.13e5	8.03e5	0.871	NO	10.07	41.60	41.61	1.00	1.00	NO	268.11		0.333	268.11
18	18 13C-2,3,7,8-TCDD	8.25e5	7.54e5	0.775	NO	10.07	25.73	25.74	1.03	1.03	NO	183.69	92.5	0.280	
19	19 13C-1,2,3,7,8-PeCDD	6.61e5	7.54e5	0.633	NO	10.07	30.92	31.02	1.24	1.24	NO	201.52	101.4	0.275	
20	20 13C-1,2,3,4,7,8-HxCDD	4.66e5	6.26e5	1.283	NO	10.07	34.43	34.44	1.01	1.01	NO	196.20	98.8	0.377	
21	21 13C-1,2,3,6,7,8-HxCDD	5.64e5	6.26e5	1.267	NO	10.07	34.54	34.53	1.02	1.02	NO	193.36	97.3	0.307	
22	22 13C-1,2,3,7,8,9-HxCDD	5.21e5	6.26e5	1.255	NO	10.07	34.80	34.80	1.02	1.02	NO	199.30	100.3	0.343	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.48e5	6.26e5	1.057	NO	10.07	38.26	38.27	1.13	1.13	NO	184.48	92.8	0.498	
24	24 13C-OCDD	5.18e5	6.26e5	0.900	NO	10.07	41.41	41.42	1.22	1.22	NO	287.76	72.4	0.462	
25	25 13C-2,3,7,8-TCDF	9.72e5	1.13e6	0.772	NO	10.07	24.76	24.75	0.99	0.99	NO	157.19	79.1	0.403	
26	26 13C-1,2,3,7,8-PeCDF	9.20e5	1.13e6	1.580	NO	10.07	29.59	29.66	1.18	1.19	NO	184.82	93.0	0.557	
27	27 13C-2,3,4,7,8-PeCDF	8.76e5	1.13e6	1.582	NO	10.07	30.60	30.70	1.22	1.23	NO	182.95	92.1	0.578	
28	28 13C-1,2,3,4,7,8-HxCDF	6.22e5	6.26e5	0.515	NO	10.07	33.58	33.58	0.99	0.99	NO	197.37	99.3	0.465	
29	29 13C-1,2,3,6,7,8-HxCDF	6.68e5	6.26e5	0.511	NO	10.07	33.69	33.69	0.99	0.99	NO	189.57	95.4	0.416	
30	30 13C-2,3,4,6,7,8-HxCDF	6.27e5	6.26e5	0.507	NO	10.07	34.27	34.27	1.01	1.01	NO	192.16	96.7	0.449	
31	31 13C-1,2,3,7,8,9-HxCDF	5.17e5	6.26e5	0.510	NO	10.07	35.14	35.14	1.03	1.03	NO	187.94	94.6	0.532	
32	32 13C-1,2,3,4,6,7,8-HpCDF	4.21e5	6.26e5	0.441	NO	10.07	36.86	36.87	1.09	1.09	NO	173.36	87.3	0.469	

Dataset: U:\VG12.PRO\Results\200315R2\200315R2-5.qld

Last Altered: Wednesday, March 25, 2020 09:47:57 Pacific Daylight Time

Printed: Wednesday, March 25, 2020 10:05:00 Pacific Daylight Time

Name: 200315R2_5, Date: 16-Mar-2020, Time: 03:10:00, ID: 2000144-10 PDI-081SC-A-09-10-191002 16.34, Description: PDI-081SC-A-09-10-191002

#	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	3.04e5	6.26e5	0.448	NO	10.07	38.94	38.93	1.15	1.15	NO	185.60	93.4	0.696	
34	34 13C-OCDF	8.03e5	6.26e5	0.892	NO	10.07	41.59	41.60	1.22	1.22	NO	365.97	92.1	0.375	
35	35 37Cl-2,3,7,8-TCDD	3.14e5	7.54e5			10.07	25.74	25.76	1.03	1.03	NO	70.369	88.5	0.143	
36	36 13C-1,2,3,4-TCDD	7.54e5	7.54e5	0.792	NO	10.07	25.05	25.02	1.00	1.00	NO	198.69	100.0	0.331	
37	37 13C-1,2,3,4-TCDF	1.13e6	1.13e6	0.788	NO	10.07	23.19	23.10	1.00	1.00	NO	198.69	100.0	0.439	
38	38 13C-1,2,3,4,6,9-HxCDF	6.26e5	6.26e5	0.518	NO	10.07	33.88	33.96	1.00	1.00	NO	198.69	100.0	0.465	
39	39 Total Tetra-Dioxins		8.25e5			10.07	24.62		0.00		NO	12.010		0.123	15.106
40	40 Total Penta-Dioxins		6.61e5			10.07	29.96		0.00		NO	19.645		0.142	20.431
41	41 Total Hexa-Dioxins		0.00e0			10.07	33.63		0.00		NO	93.155		0.213	94.267
42	42 Total Hepta-Dioxins		3.48e5			10.07	37.64		0.00		NO	680.33		0.936	680.33
43	43 Total Tetra-Furans		9.72e5			10.07	23.61		0.00		NO	611.07		0.274	611.93
44	44 1st Func. Penta-Furans		0.00e0			10.07	27.09		0.00		NO	60.678		0.052	60.678
45	45 Total Penta-Furans		0.00e0			10.07	29.27		0.00		NO	743.76		0.293	744.94
46	46 Total Hexa-Furans		0.00e0			10.07	33.56		0.00		NO	669.92		0.266	669.92
47	47 Total Hepta-Furans		0.00e0			10.07	37.83		0.00		NO	448.36		0.537	448.36

Dataset: U:\VG12.PRO\Results\200315R2\200315R2-5.qld

Last Altered: Wednesday, March 25, 2020 09:47:57 Pacific Daylight Time

Printed: Wednesday, March 25, 2020 10:05:00 Pacific Daylight Time

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

Name: 200315R2_5, Date: 16-Mar-2020, Time: 03:10:00

Tetra-Dioxins

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	39 Total Tetra-Dioxins	21.42	0.799	NO	1.34e4	3.60e5	7.39	7.39
2	39 Total Tetra-Dioxins	21.81	0.767	NO	3.29e3	3.60e5	1.85	1.85
3	39 Total Tetra-Dioxins	22.34	0.838	NO	9.33e2	3.60e5	0.501	0.501
4	39 Total Tetra-Dioxins	23.30	0.784	NO	6.85e2	3.60e5	0.382	0.382
5	39 Total Tetra-Dioxins	23.59	0.717	NO	1.28e3	3.60e5	0.749	0.749
6	39 Total Tetra-Dioxins	23.85	0.886	YES	1.62e3	3.60e5	0.000	0.790
7	39 Total Tetra-Dioxins	24.09	0.744	NO	4.71e2	3.60e5	0.271	0.271
8	39 Total Tetra-Dioxins	24.39	0.679	NO	2.96e2	3.60e5	0.179	0.179
9	39 Total Tetra-Dioxins	24.57	0.696	NO	6.62e2	3.60e5	0.395	0.395
10	39 Total Tetra-Dioxins	24.97	0.676	NO	4.76e2	3.60e5	0.289	0.289
11	39 Total Tetra-Dioxins	25.47	0.889	YES	2.11e3	3.60e5	0.000	1.03
12	1 2,3,7,8-TCDD	25.78	0.600	YES	1.65e3	3.60e5	0.000	0.926
13	39 Total Tetra-Dioxins	26.14	1.041	YES	8.47e2	3.60e5	0.000	0.352

Penta-Dioxins

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	40 Total Penta-Dioxins	28.71	0.600	NO	7.16e3	2.56e5	6.24	6.24
2	40 Total Penta-Dioxins	29.22	0.573	NO	1.47e3	2.56e5	1.32	1.32
3	40 Total Penta-Dioxins	29.75	0.665	NO	4.95e3	2.56e5	4.05	4.05
4	40 Total Penta-Dioxins	29.92	0.601	NO	2.22e3	2.56e5	1.93	1.93
5	40 Total Penta-Dioxins	30.01	0.557	NO	1.46e3	2.56e5	1.33	1.33
6	40 Total Penta-Dioxins	30.24	0.636	NO	2.84e3	2.56e5	2.38	2.38
7	40 Total Penta-Dioxins	30.59	0.486	YES	3.78e2	2.56e5	0.000	0.319
8	2 1,2,3,7,8-PeCDD	31.03	0.590	NO	2.03e3	2.56e5	1.78	1.78
9	40 Total Penta-Dioxins	31.12	0.532	YES	5.53e2	2.56e5	0.000	0.467
10	40 Total Penta-Dioxins	31.43	0.604	NO	7.11e2	2.56e5	0.616	0.616

Dataset: U:\VG12.PRO\Results\200315R2\200315R2-5.qld

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Name: 200315R2_5, Date: 16-Mar-2020, Time: 03:10:00

Hexa-Dioxins

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	41 Total Hexa-Dioxins	32.97	1.230	NO	5.10e4	2.89e5	36.1	36.1
2	41 Total Hexa-Dioxins	33.53	1.215	NO	6.05e3	2.89e5	4.30	4.30
3	41 Total Hexa-Dioxins	33.78	1.253	NO	5.15e4	2.89e5	36.2	36.2
4	41 Total Hexa-Dioxins	33.88	1.216	NO	2.61e3	2.89e5	1.86	1.86
5	3 1,2,3,4,7,8-HxCDD	34.44	1.320	NO	2.74e3	2.62e5	1.81	1.81
6	4 1,2,3,6,7,8-HxCDD	34.54	1.274	NO	1.42e4	3.15e5	9.10	9.10
7	41 Total Hexa-Dioxins	34.72	1.497	YES	1.90e3	2.89e5	0.000	1.11
8	5 1,2,3,7,8,9-HxCDD	34.81	1.322	NO	5.51e3	2.90e5	3.81	3.81

Hepta-Dioxins

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	42 Total Hepta-Dioxins	37.26	1.029	NO	3.87e5	1.79e5	433	433
2	6 1,2,3,4,6,7,8-HpCDD	38.29	1.029	NO	2.21e5	1.79e5	247	247

Dataset: U:\VG12.PRO\Results\200315R2\200315R2-5.qld

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Name: 200315R2_5, Date: 16-Mar-2020, Time: 03:10:00

Tetra-Furans

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	43 Total Tetra-Furans	19.42	0.723	NO	1.59e3	4.24e5	0.846	0.846
2	43 Total Tetra-Furans	19.91	0.739	NO	6.62e3	4.24e5	3.48	3.48
3	43 Total Tetra-Furans	20.48	0.764	NO	2.63e4	4.24e5	13.5	13.5
4	43 Total Tetra-Furans	21.03	0.753	NO	1.88e4	4.24e5	9.74	9.74
5	43 Total Tetra-Furans	21.40	0.746	NO	9.19e4	4.24e5	48.0	48.0
6	43 Total Tetra-Furans	21.86	0.729	NO	4.22e4	4.24e5	22.3	22.3
7	43 Total Tetra-Furans	21.98	0.355	YES	1.36e3	4.24e5	0.000	0.700
8	43 Total Tetra-Furans	22.22	0.742	NO	2.37e4	4.24e5	12.4	12.4
9	43 Total Tetra-Furans	22.67	0.724	NO	4.06e3	4.24e5	2.16	2.16
10	43 Total Tetra-Furans	22.83	0.775	NO	1.82e3	4.24e5	0.932	0.932
11	43 Total Tetra-Furans	23.12	0.743	NO	6.30e4	4.24e5	33.0	33.0
12	43 Total Tetra-Furans	23.71	0.744	NO	4.04e5	4.24e5	211	211
13	43 Total Tetra-Furans	24.04	0.735	NO	1.29e4	4.24e5	6.80	6.80
14	43 Total Tetra-Furans	24.28	0.697	NO	1.63e3	4.24e5	0.888	0.888
15	43 Total Tetra-Furans	24.66	0.762	NO	3.67e4	4.24e5	18.9	18.9
16	8 2,3,7,8-TCDF	24.78	0.757	NO	3.65e5	4.24e5	189	189
17	43 Total Tetra-Furans	25.20	0.762	NO	1.60e4	4.24e5	8.28	8.28
18	43 Total Tetra-Furans	25.45	0.769	NO	4.23e3	4.24e5	2.17	2.17
19	43 Total Tetra-Furans	26.33	1.641	YES	6.58e2	4.24e5	0.000	0.158
20	43 Total Tetra-Furans	26.51	0.849	NO	1.11e3	4.24e5	0.539	0.539
21	43 Total Tetra-Furans	26.68	0.835	NO	1.61e3	4.24e5	0.788	0.788
22	43 Total Tetra-Furans	26.96	0.851	NO	5.33e4	4.24e5	25.9	25.9

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Penta-Furans function 1

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	44 1st Func. Penta-Furans	26.95	1.584	NO	1.61e5	5.50e5	60.7	60.7

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Penta-Furans

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	45 Total Penta-Furans	28.50	1.461	NO	1.14e4	5.50e5	4.42	4.42
2	45 Total Penta-Furans	28.65	1.535	NO	3.97e5	5.50e5	151	151
3	45 Total Penta-Furans	29.28	1.632	NO	3.73e4	5.50e5	13.9	13.9
4	45 Total Penta-Furans	29.49	1.599	NO	8.34e4	5.50e5	31.3	31.3
5	9 1,2,3,7,8-PeCDF	29.69	1.534	NO	7.40e5	5.63e5	275	275
6	45 Total Penta-Furans	29.97	1.563	NO	2.75e5	5.50e5	104	104
7	45 Total Penta-Furans	30.59	1.993	YES	3.97e3	5.50e5	0.000	1.17
8	10 2,3,4,7,8-PeCDF	30.71	1.525	NO	2.55e5	5.37e5	95.5	95.5
9	45 Total Penta-Furans	31.67	1.479	NO	2.03e4	5.50e5	7.83	7.83
10	45 Total Penta-Furans	30.73	1.593	NO	1.62e5	5.50e5	60.7	60.7

Hexa-Furans

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	46 Total Hexa-Furans	32.39	1.250	NO	3.26e4	2.06e5	17.5	17.5
2	46 Total Hexa-Furans	32.58	1.238	NO	1.18e5	2.06e5	63.7	63.7
3	46 Total Hexa-Furans	32.95	1.170	NO	2.47e3	2.06e5	1.37	1.37
4	46 Total Hexa-Furans	33.13	1.236	NO	1.52e5	2.06e5	82.2	82.2
5	46 Total Hexa-Furans	33.49	1.363	NO	7.41e3	2.06e5	3.84	3.84
6	11 1,2,3,4,7,8-HxCDF	33.59	1.210	NO	5.97e5	2.11e5	336	336
7	12 1,2,3,6,7,8-HxCDF	33.70	1.233	NO	1.65e5	2.26e5	88.0	88.0
8	46 Total Hexa-Furans	33.98	1.359	NO	6.41e3	2.06e5	3.33	3.33
9	13 2,3,4,6,7,8-HxCDF	34.28	1.232	NO	4.79e4	2.11e5	25.2	25.2
10	14 1,2,3,7,8,9-HxCDF	35.18	1.131	NO	2.45e4	1.75e5	17.3	17.3
11	46 Total Hexa-Furans	35.20	1.254	NO	5.93e4	2.06e5	31.9	31.9

Hepta-Furans

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	15 1,2,3,4,6,7,8-HpCDF	36.87	1.015	NO	1.48e5	1.29e5	132	132
2	47 Total Hepta-Furans	37.26	1.073	NO	3.23e3	1.11e5	3.27	3.27
3	47 Total Hepta-Furans	37.46	1.011	NO	2.51e5	1.11e5	262	262
4	16 1,2,3,4,7,8,9-HpCDF	38.94	1.007	NO	4.78e4	9.40e4	51.5	51.5

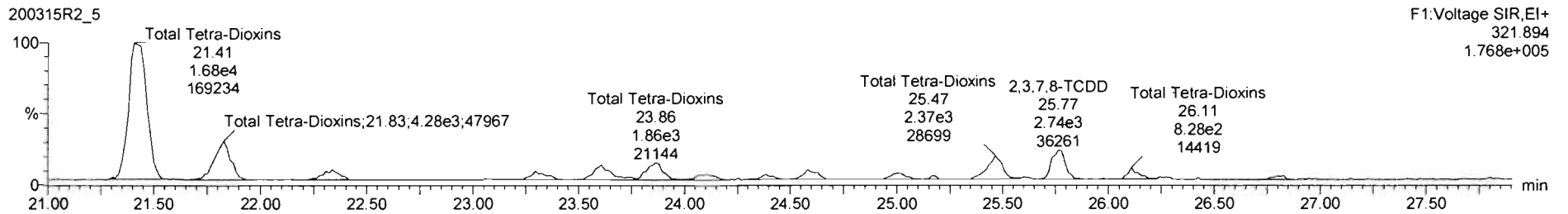
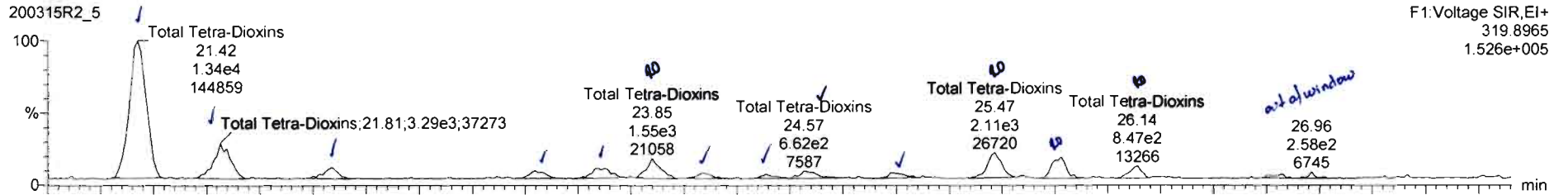
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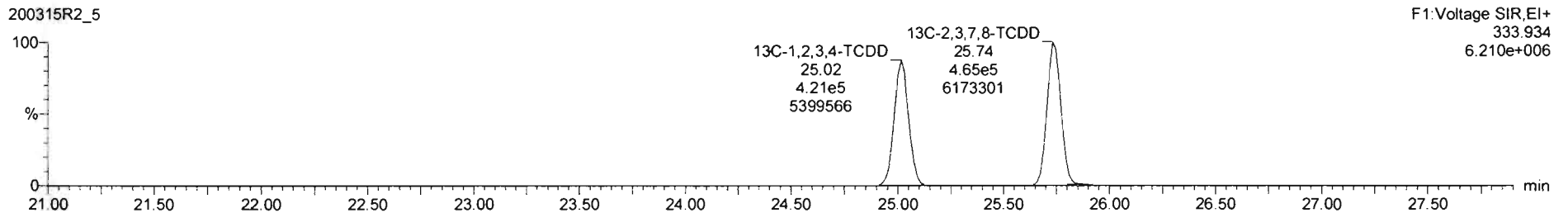
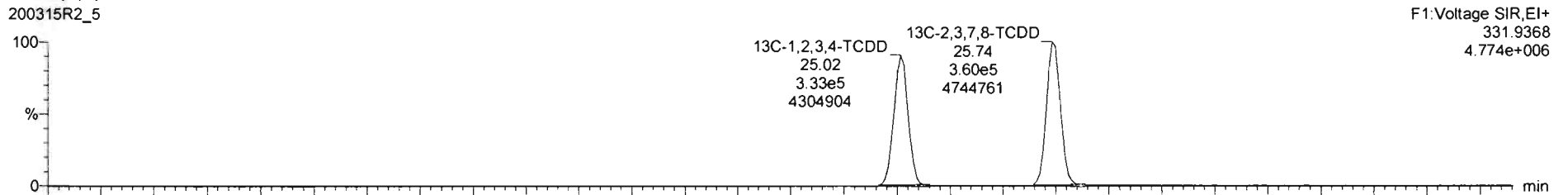
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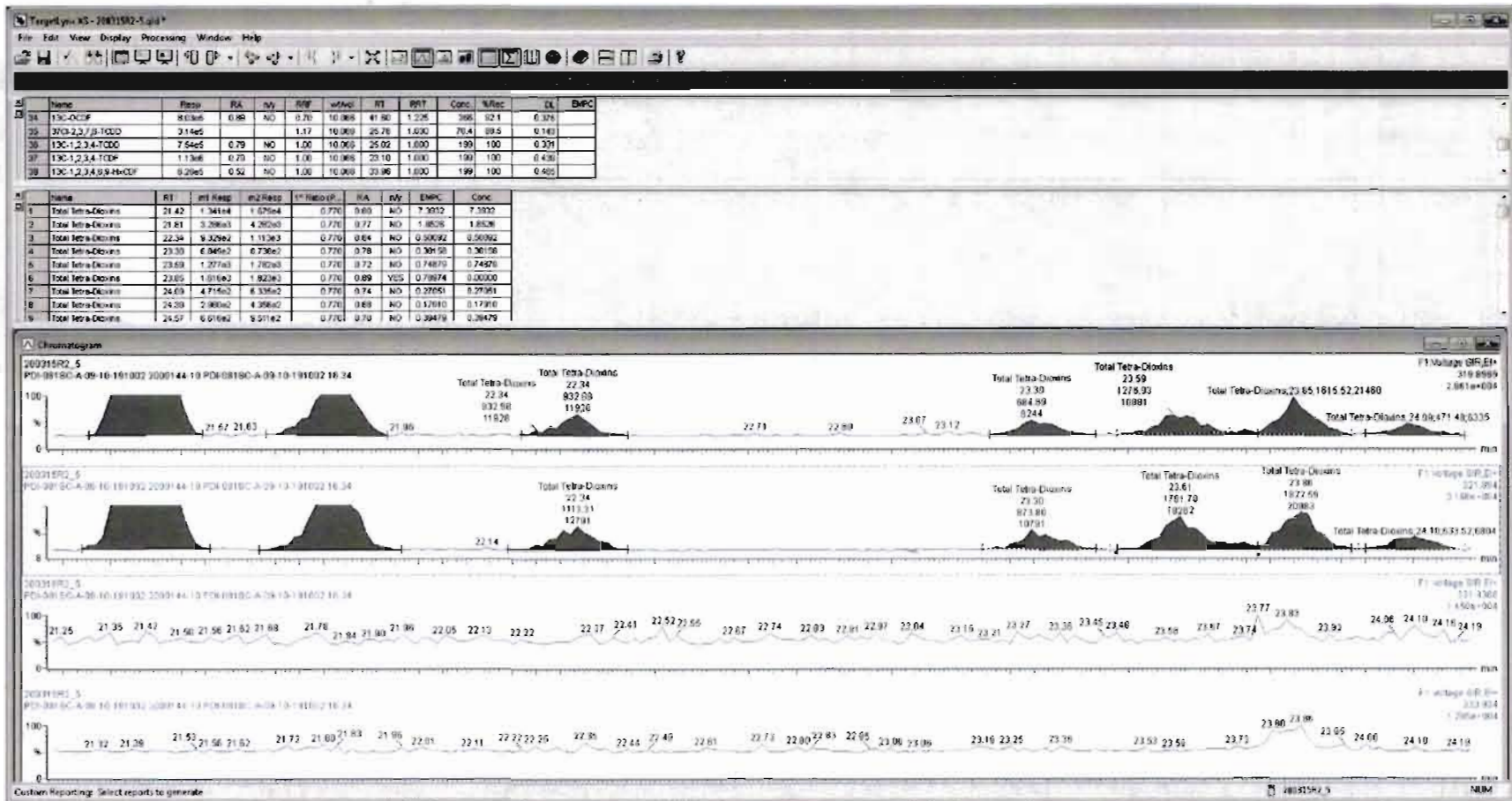
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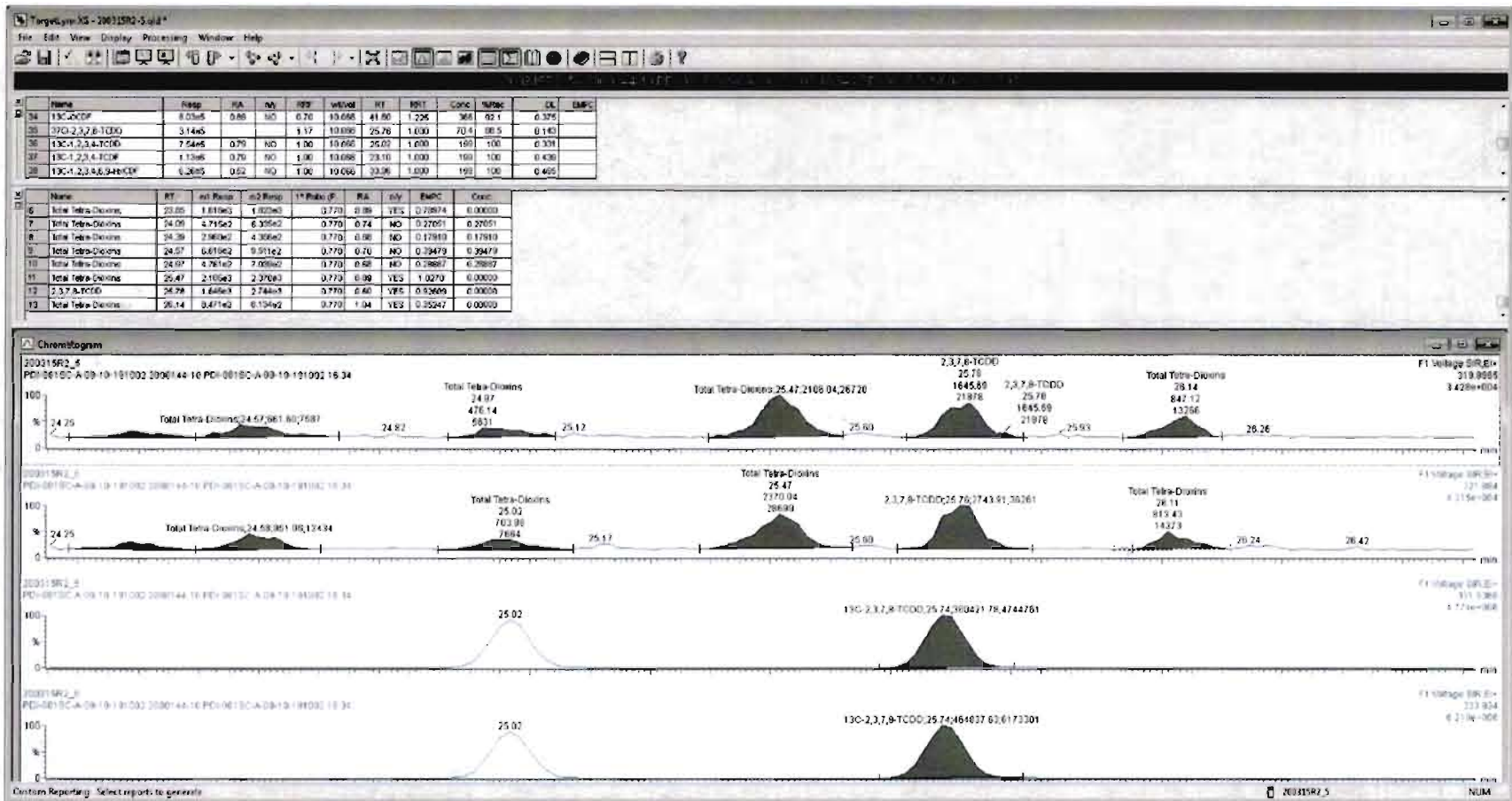
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13C-2,3,7,8-TCDD







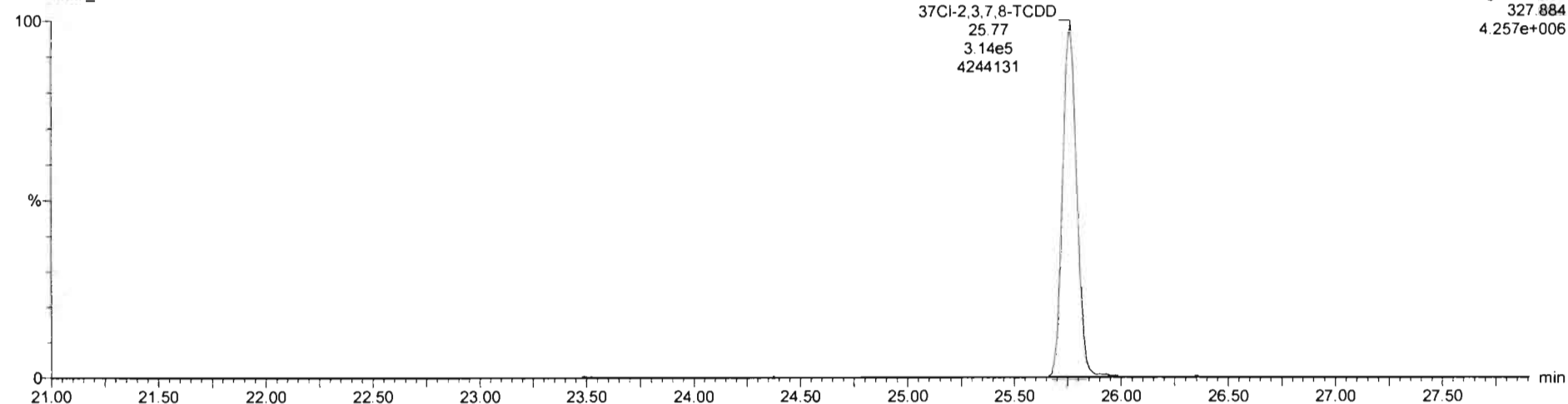
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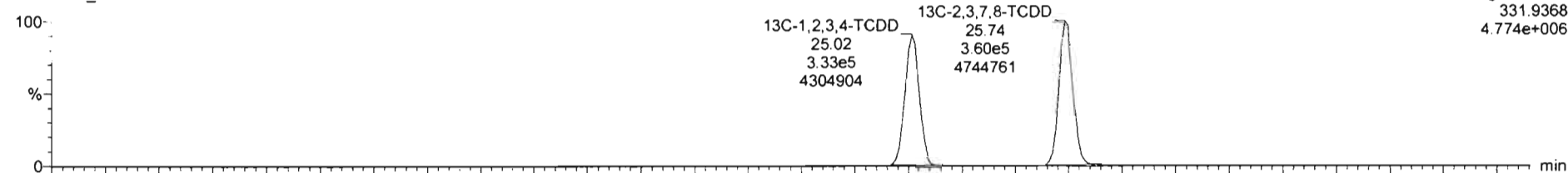
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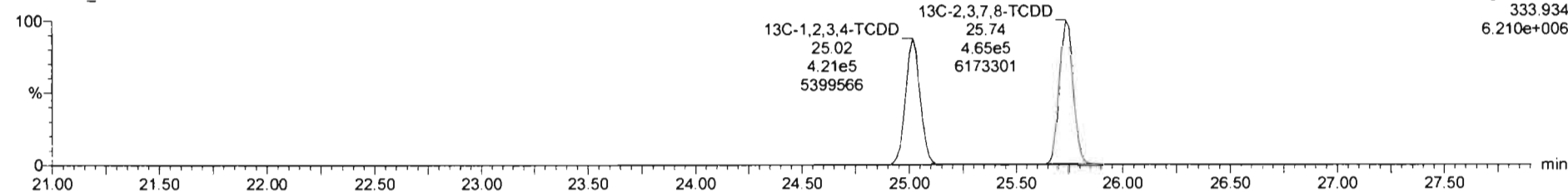


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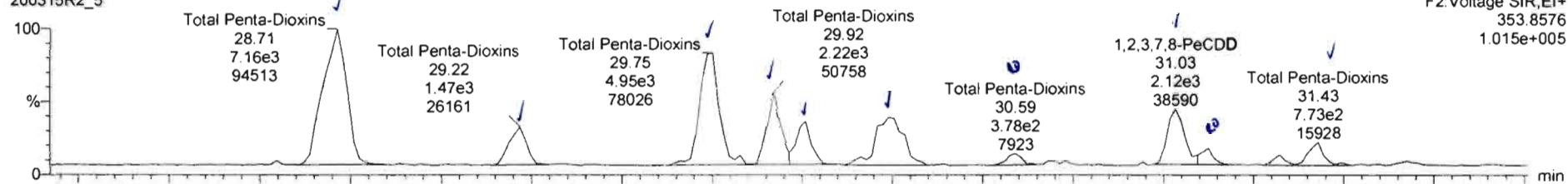
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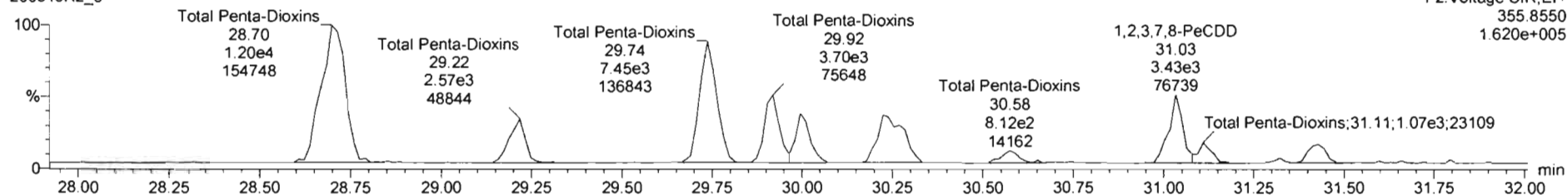
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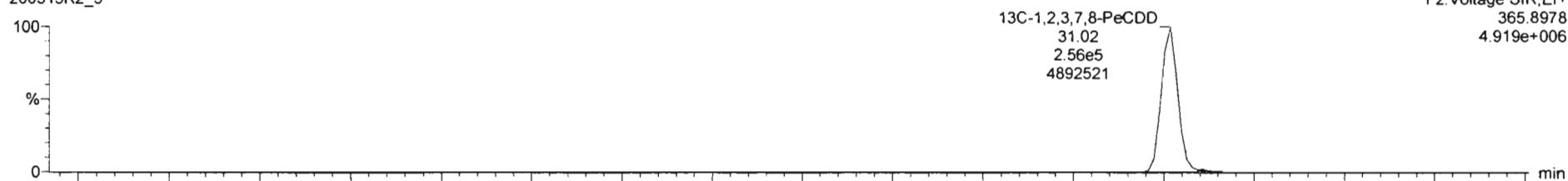


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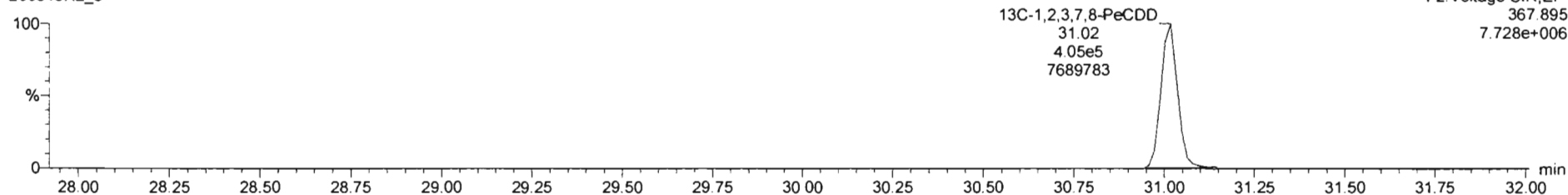


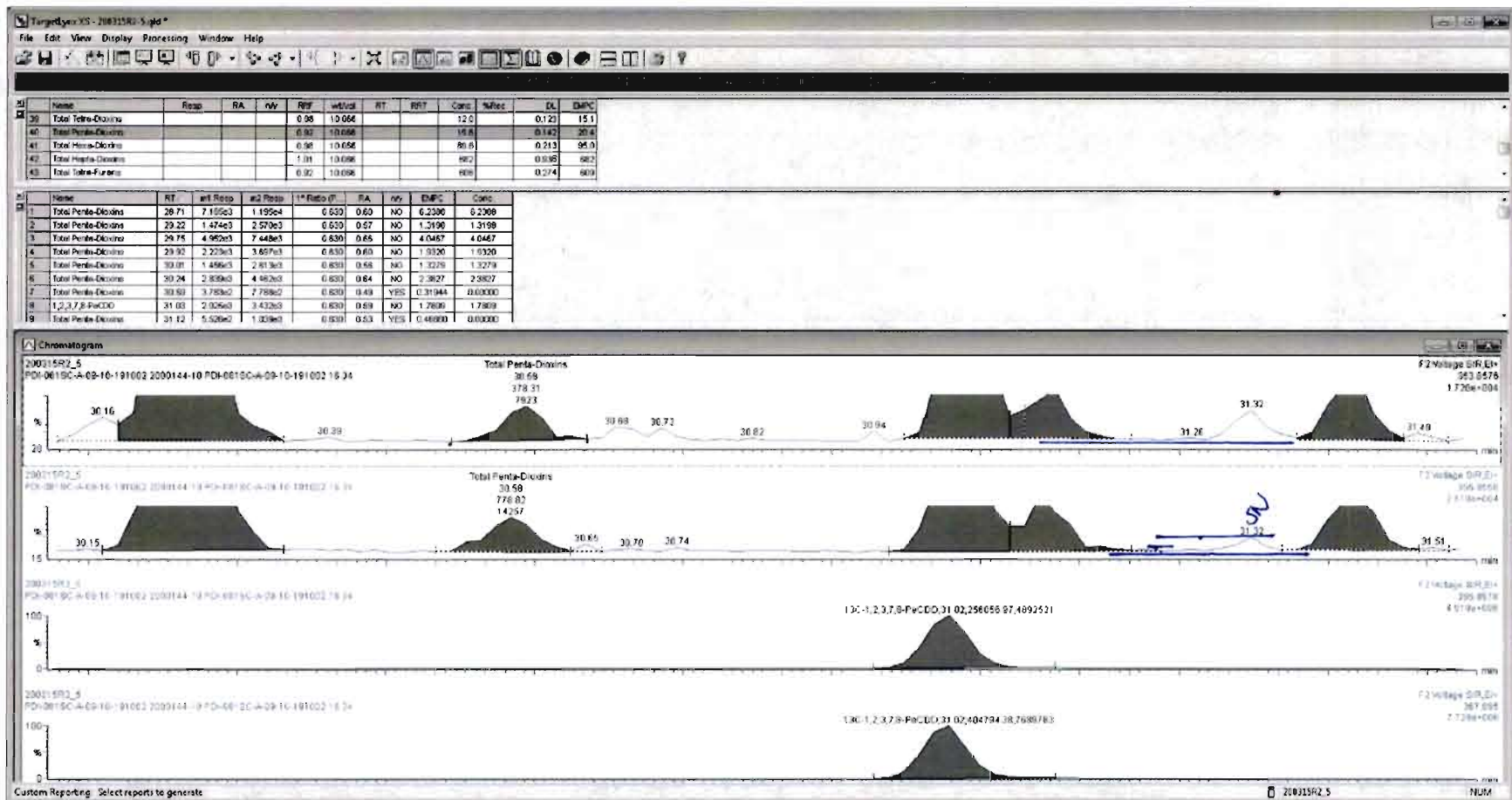
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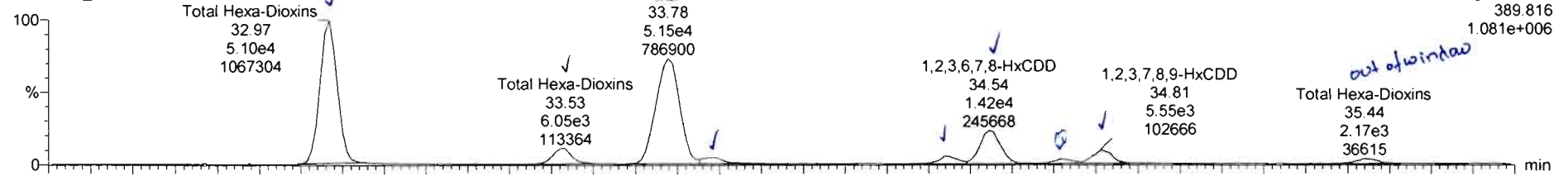
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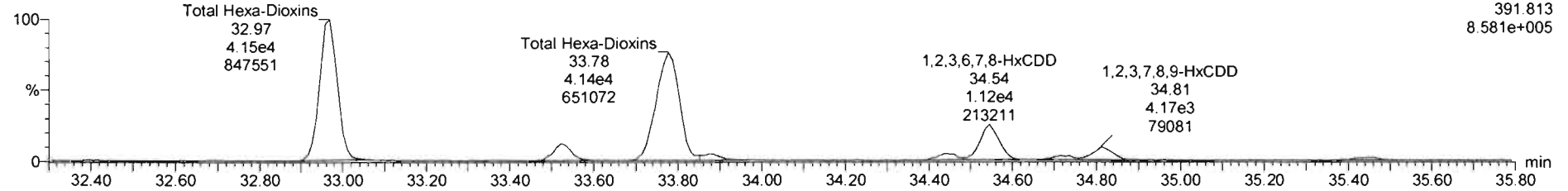
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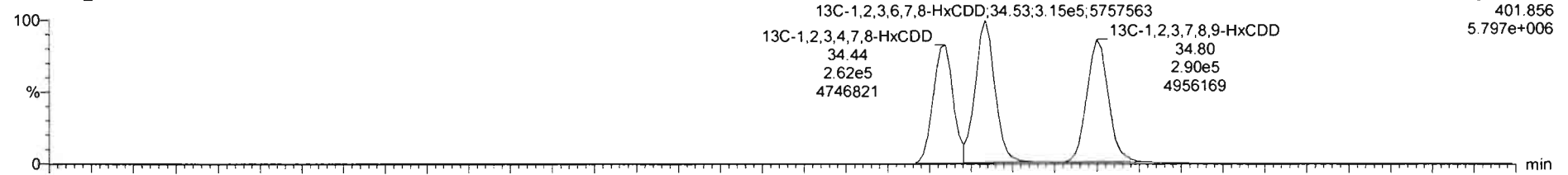


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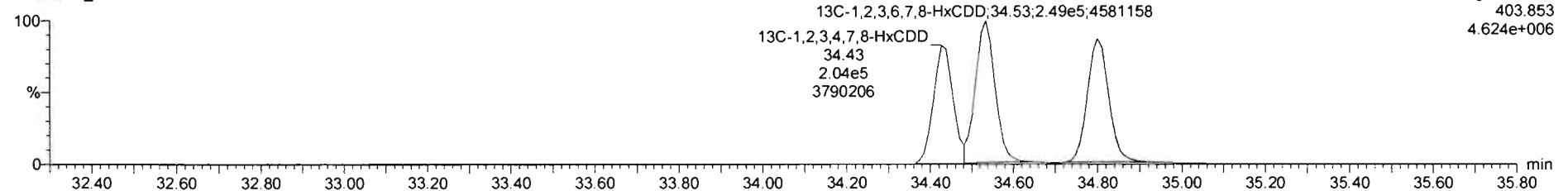


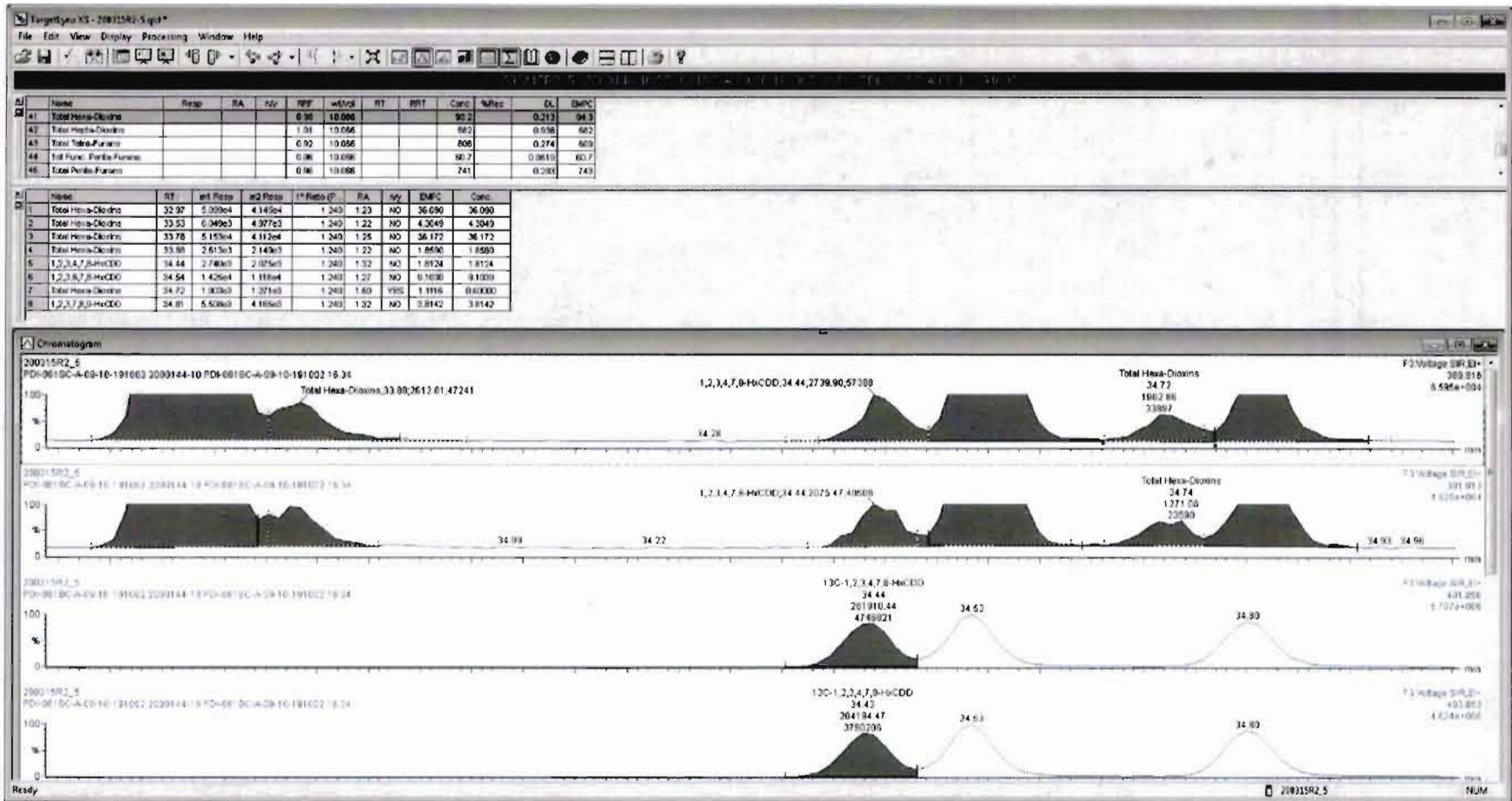
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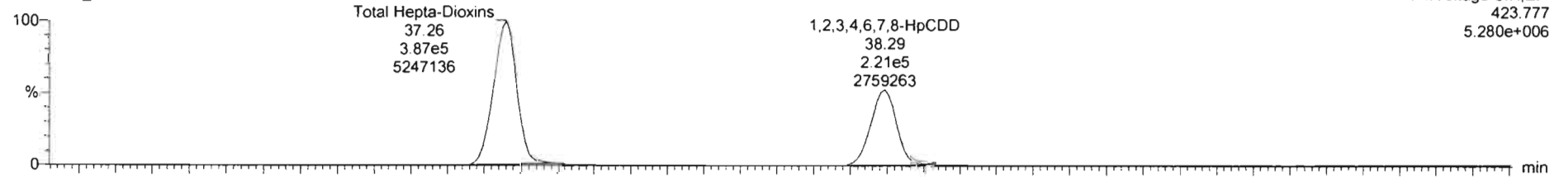
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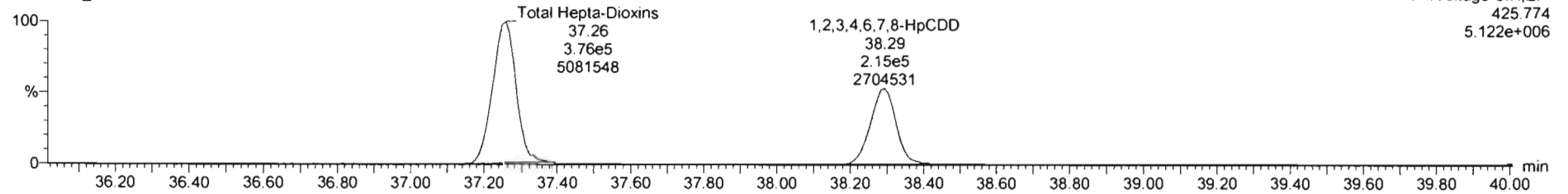
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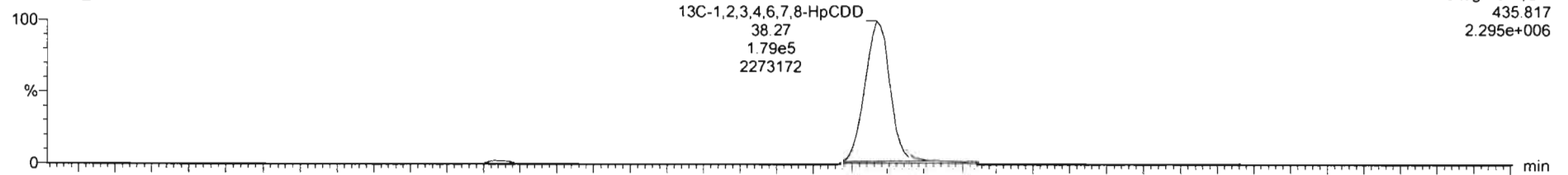


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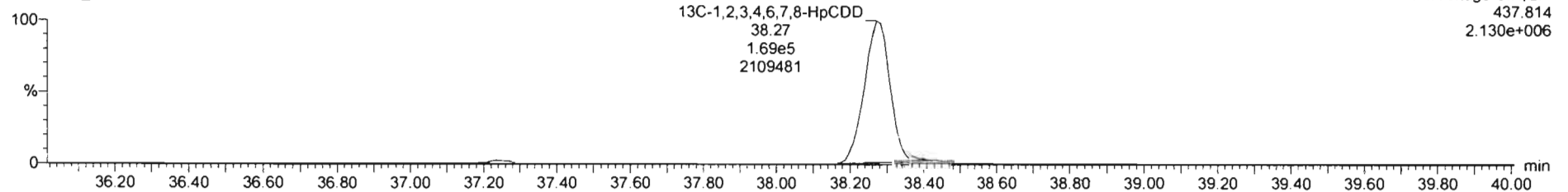


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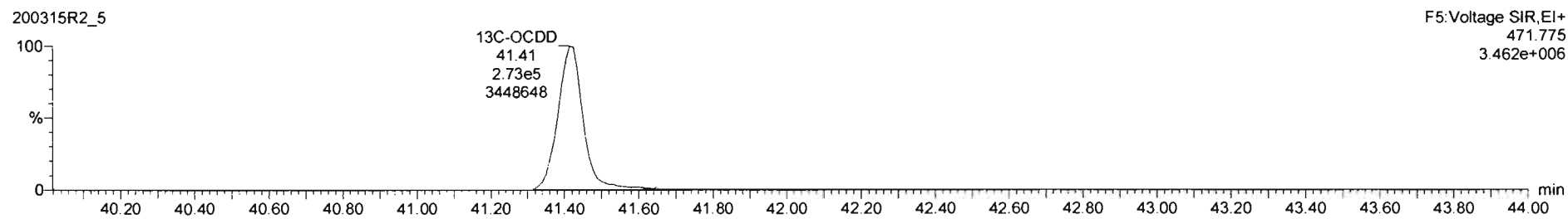
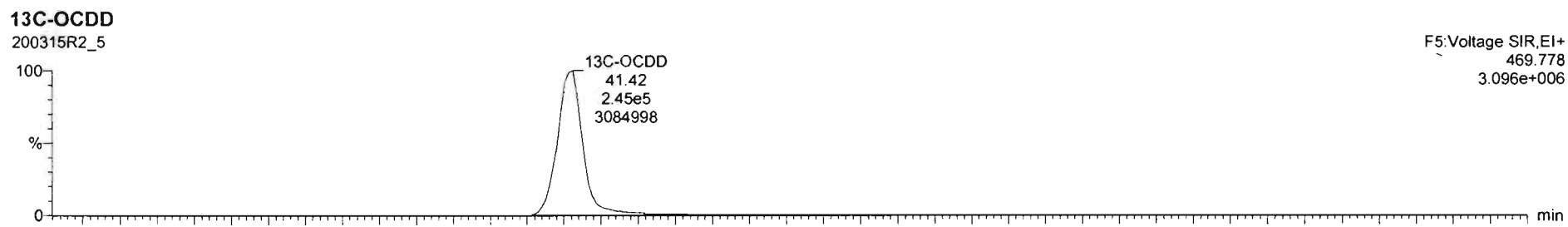
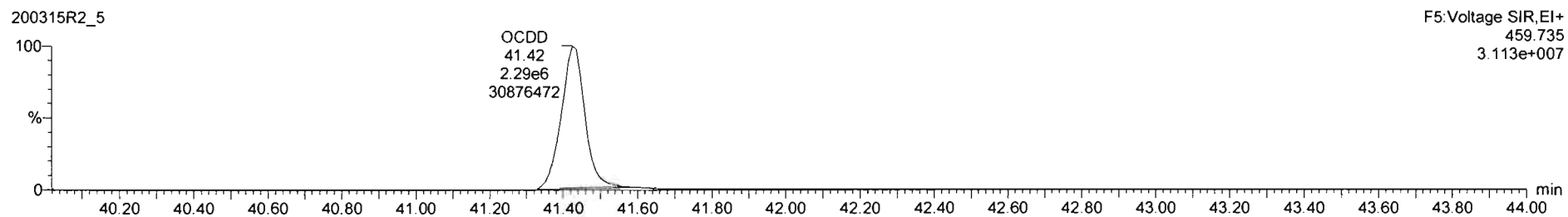
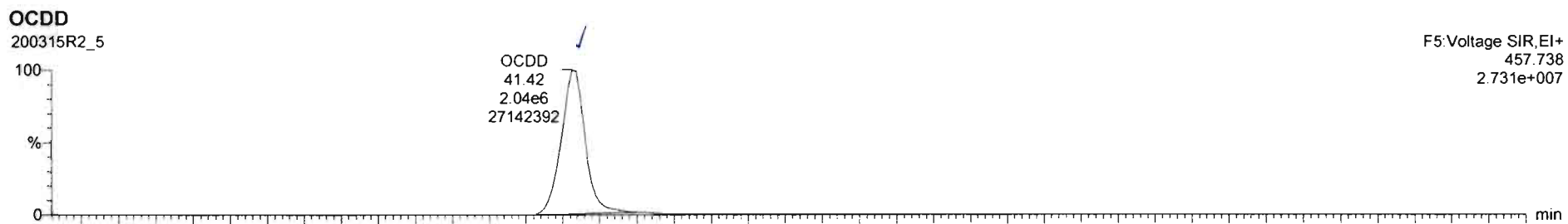
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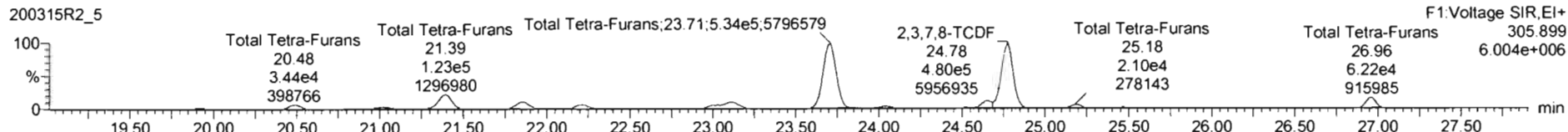
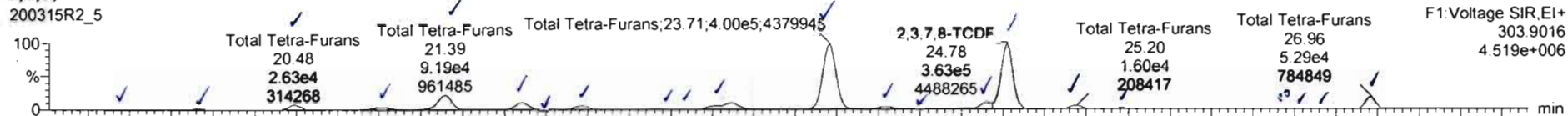


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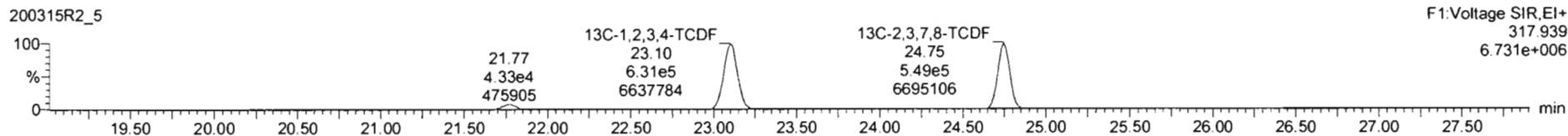
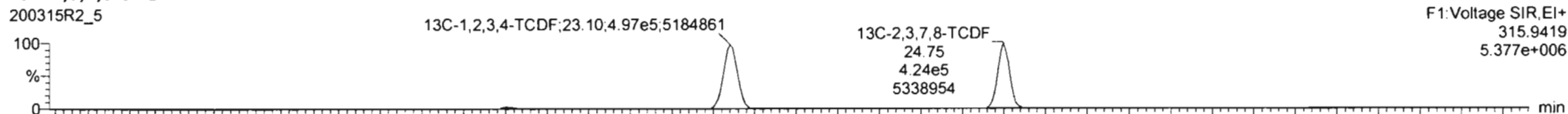
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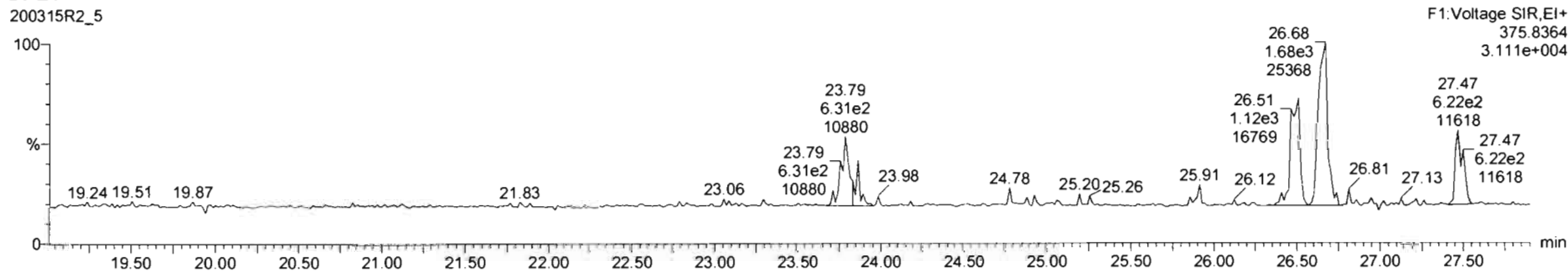
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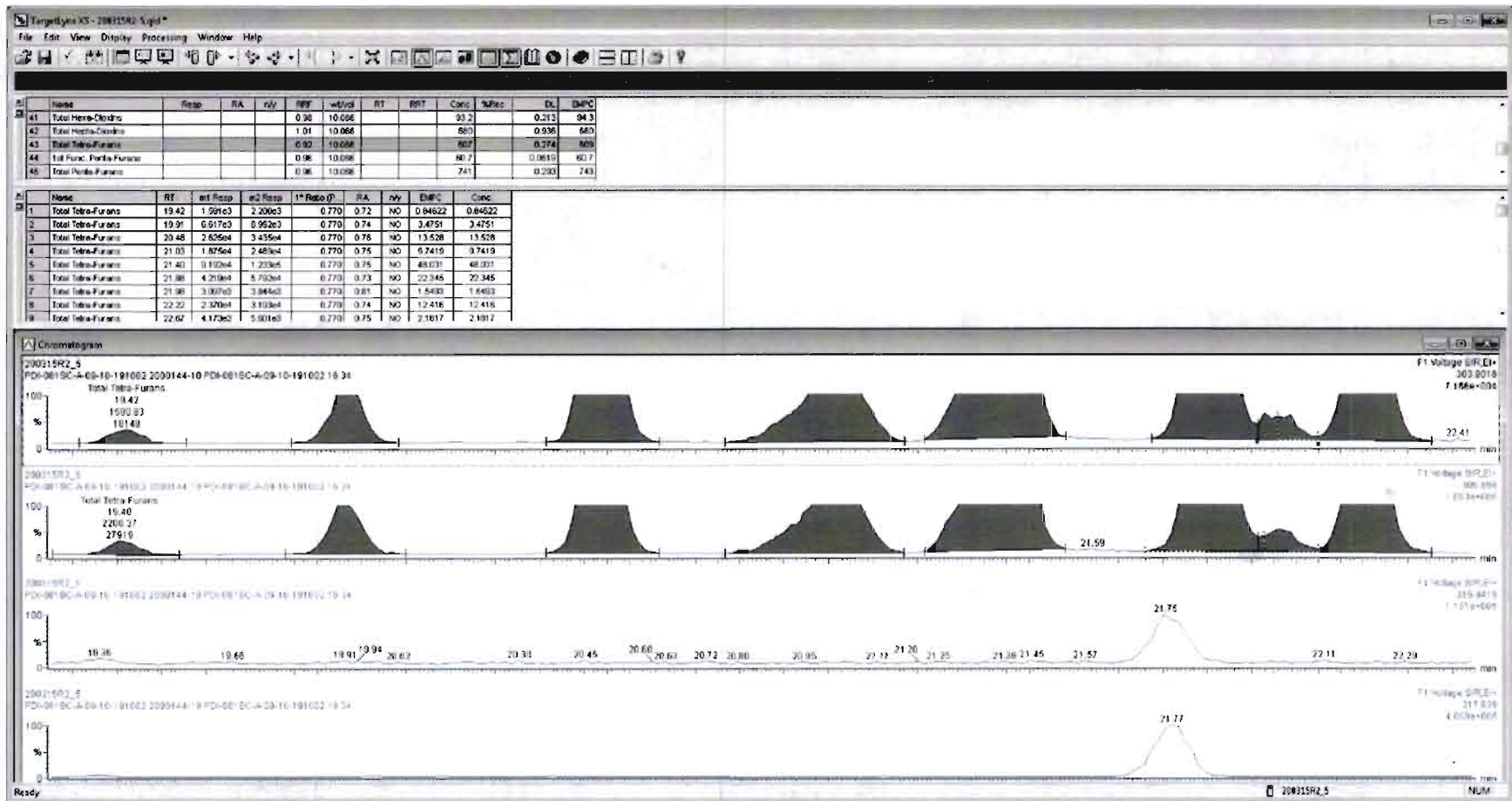


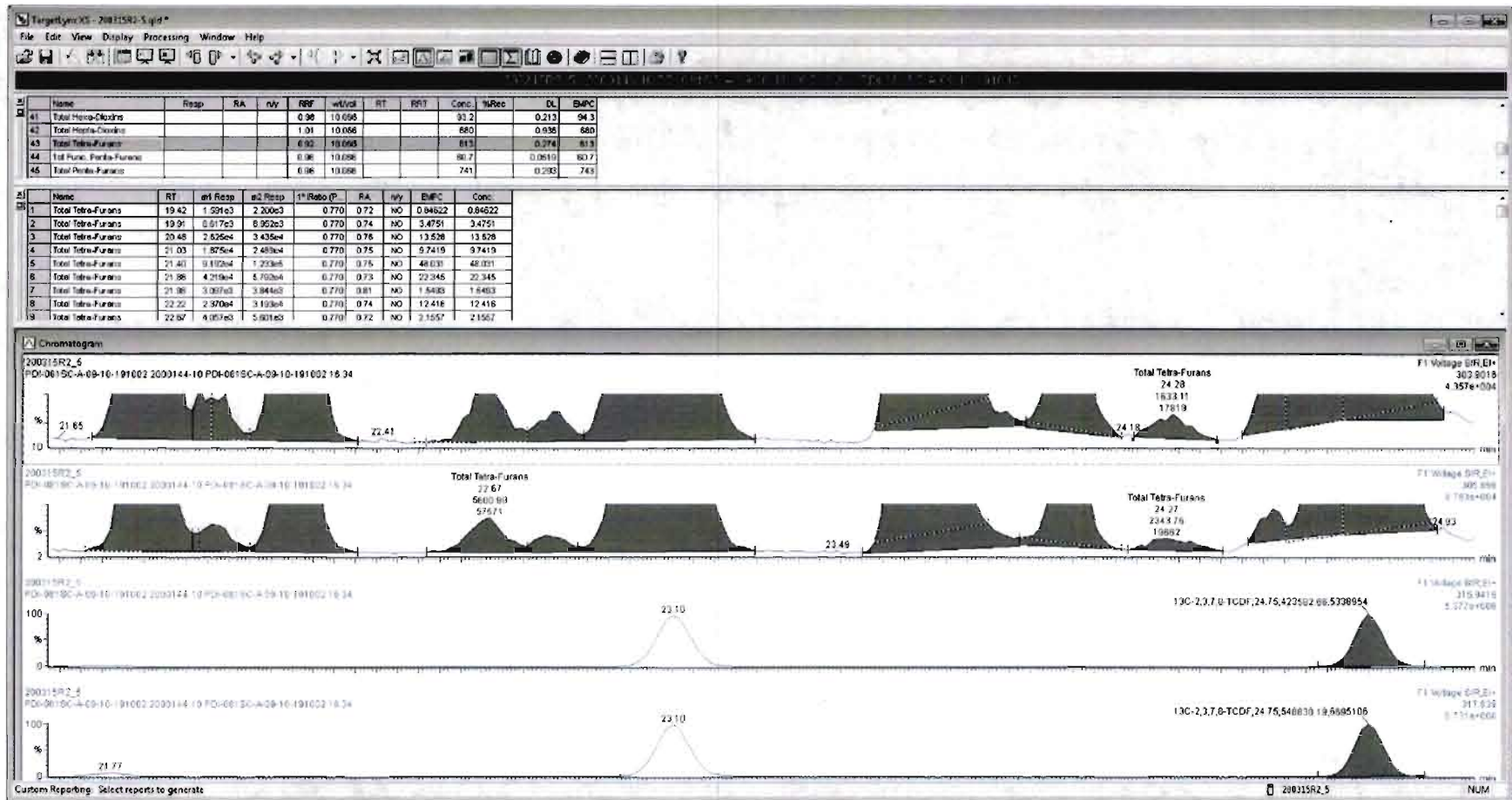
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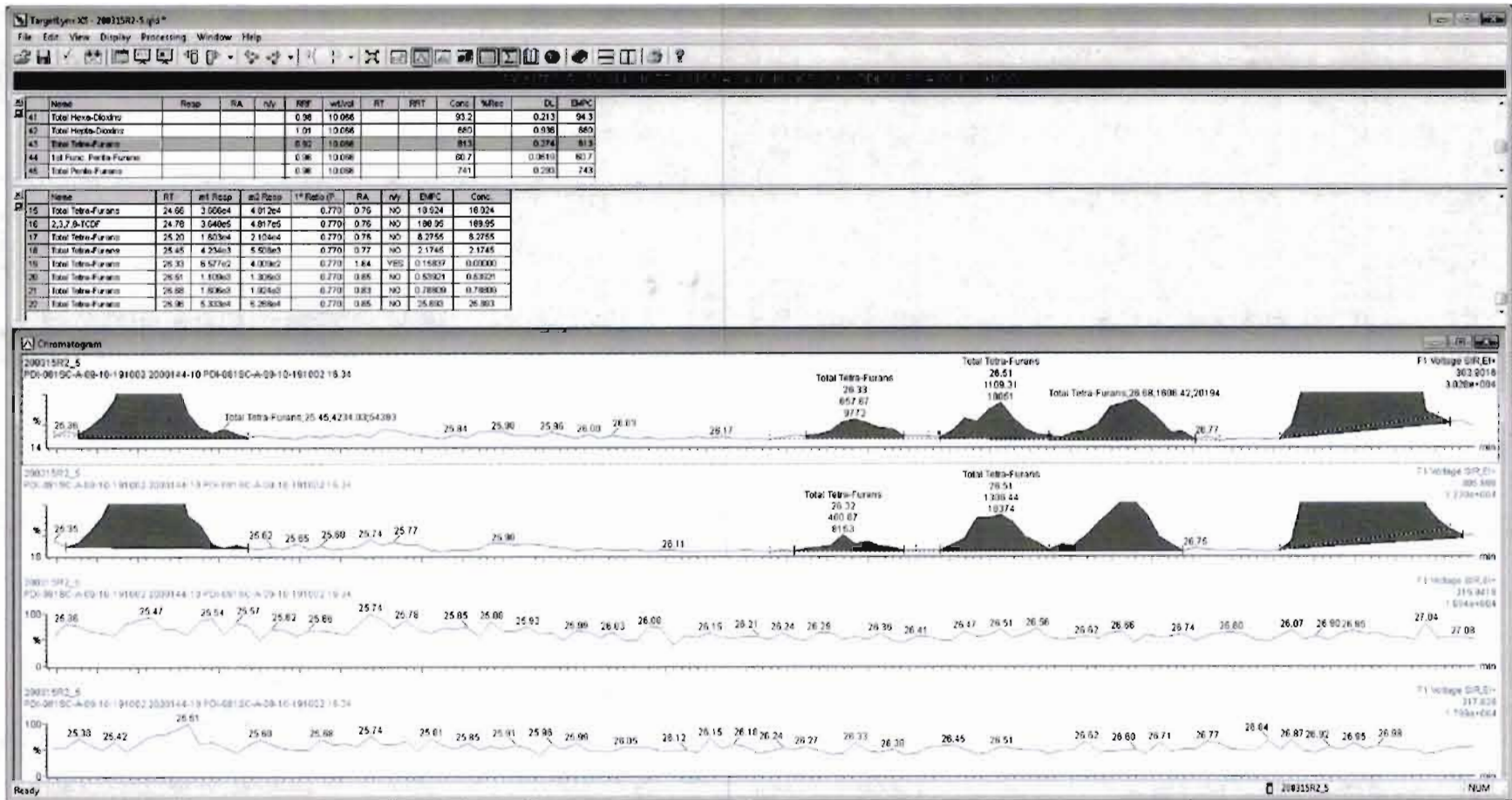


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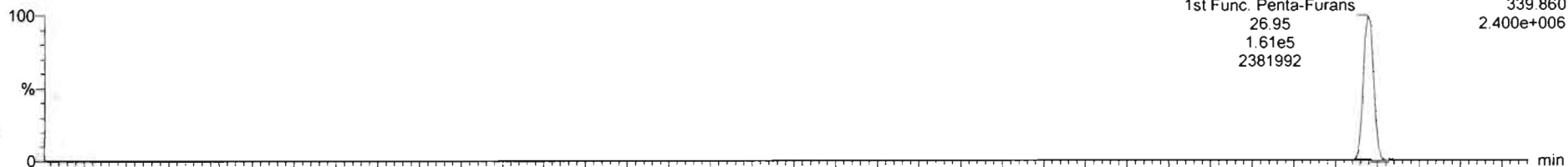
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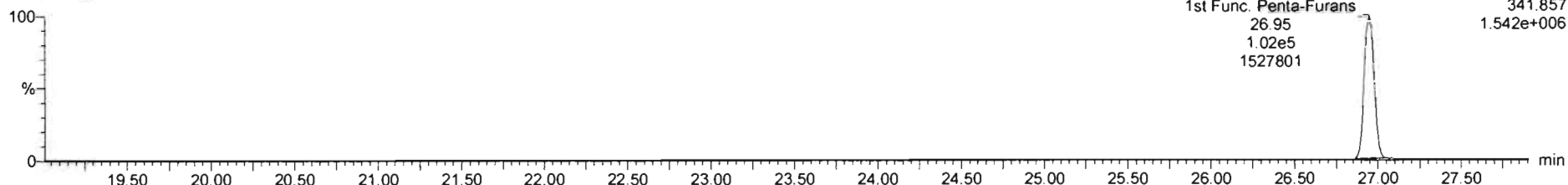
Name: 200315R2_5, Date: 15-Mar-2020, Time: 03:10:00, ID: 2000144-10 PDI-081SC-A-09-10-191002 16.34, Description: PDI-081SC-A-09-10-191002

1st Func. Penta-Furans

200315R2_5

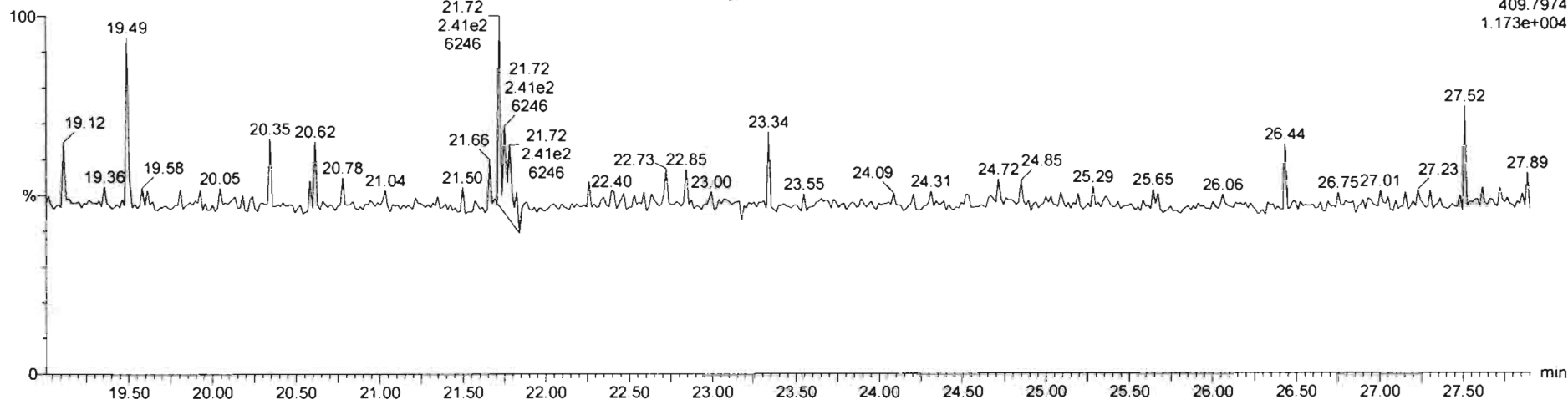


200315R2_5



DPE6

200315R2_5



Dataset: Untitled

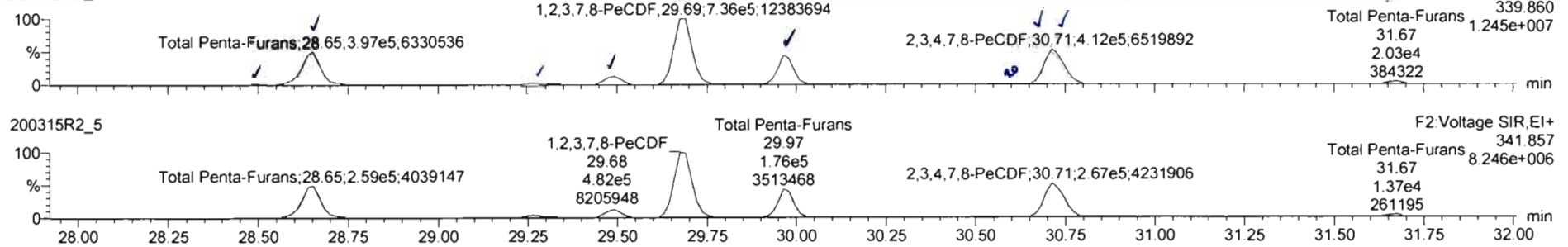
Last Altered: Monday, March 16, 2020 08:44:13 Pacific Daylight Time

Printed: Monday, March 16, 2020 08:51:00 Pacific Daylight Time

Name: 200315R2_5, Date: 15-Mar-2020, Time: 03:10:00, ID: 2000144-10 PDI-081SC-A-09-10-191002 16.34, Description: PDI-081SC-A-09-10-191002

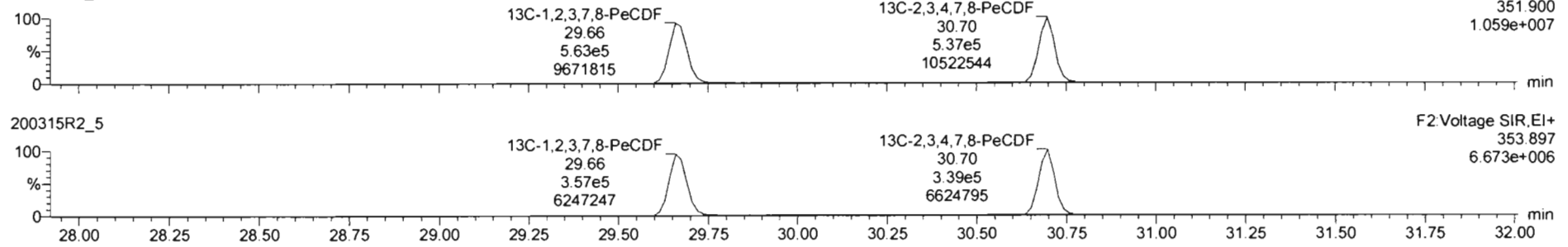
1,2,3,7,8-PeCDF

200315R2_5



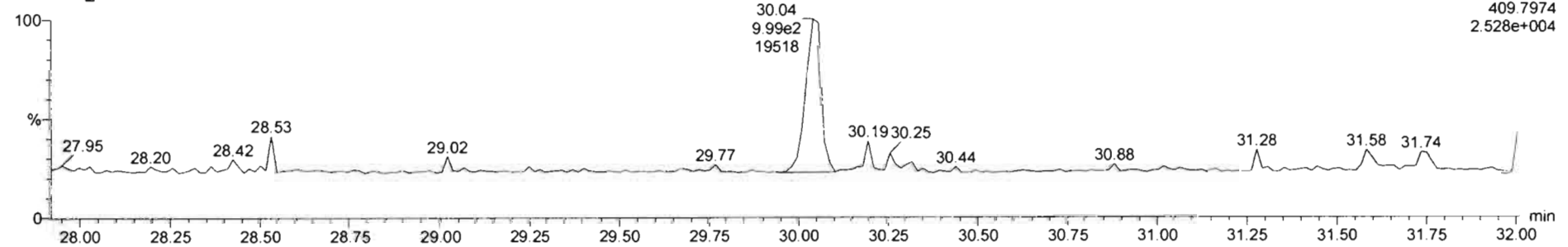
13C-1,2,3,7,8-PeCDF

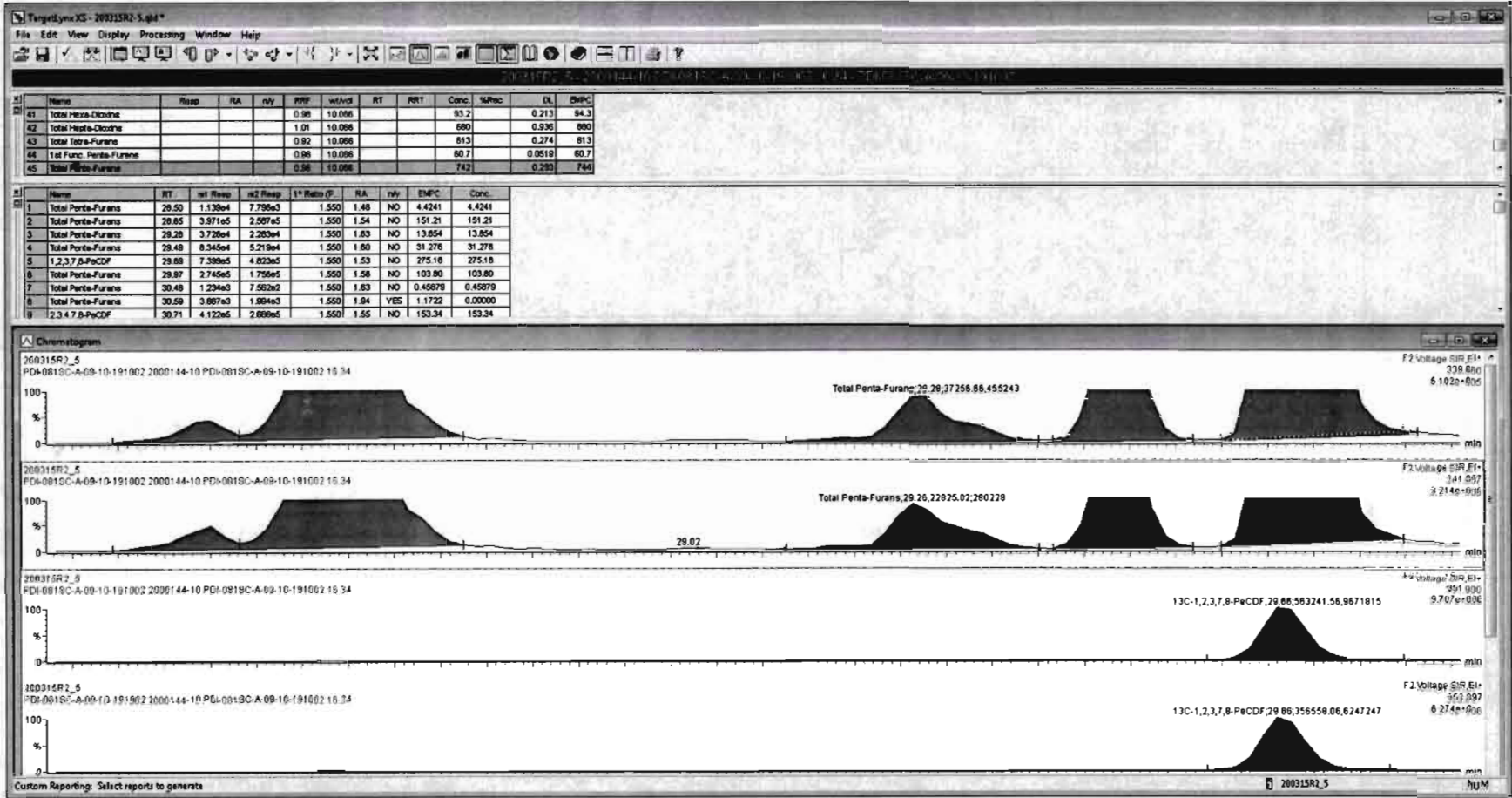
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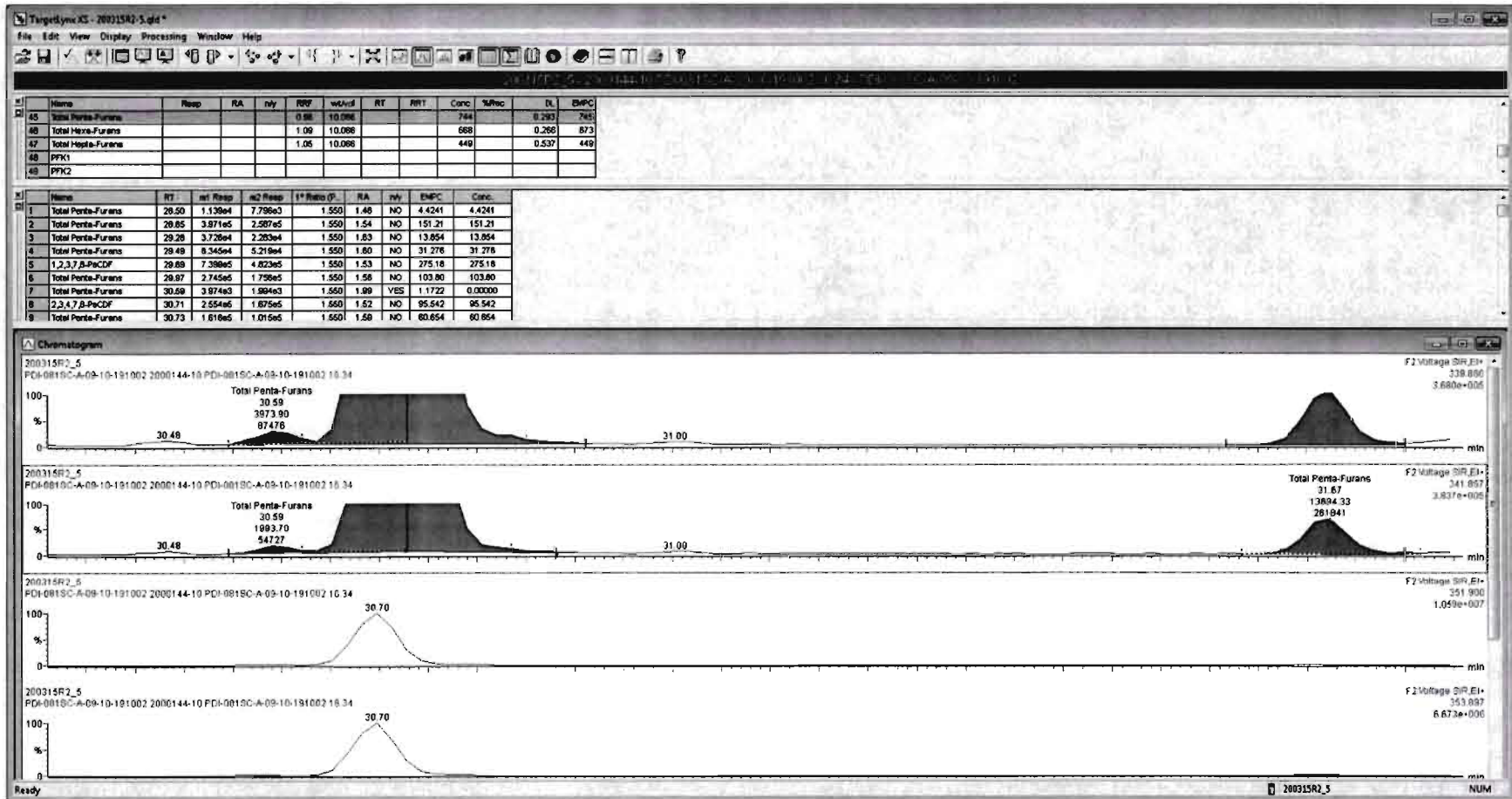


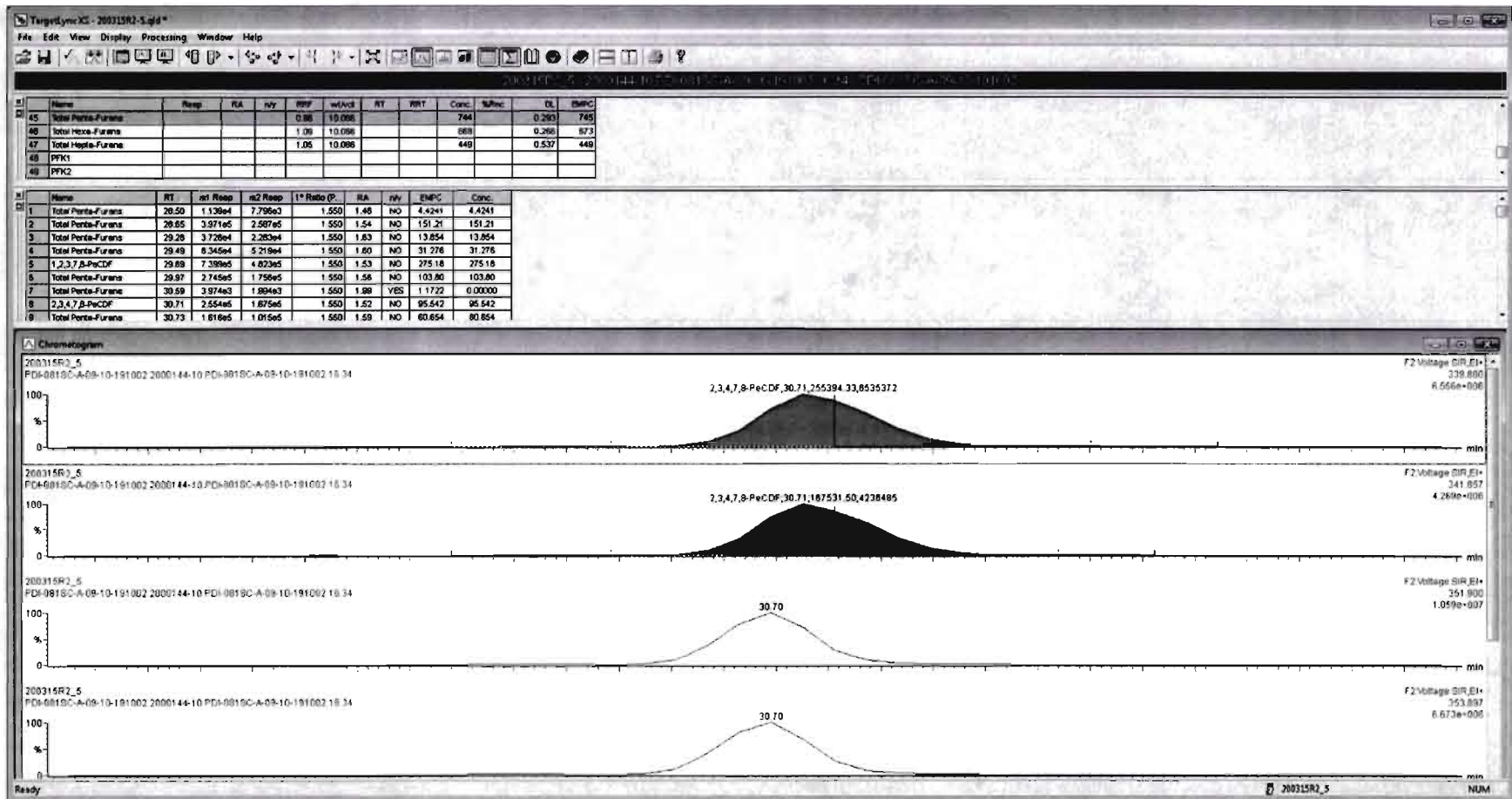
DPE2

200315R2_5









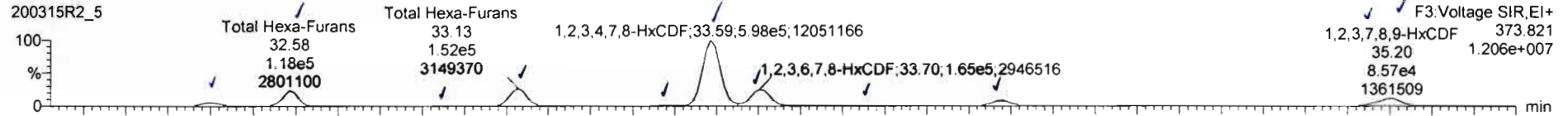
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Last Altered: Monday, March 16, 2020 08:44:13 Pacific Daylight Time

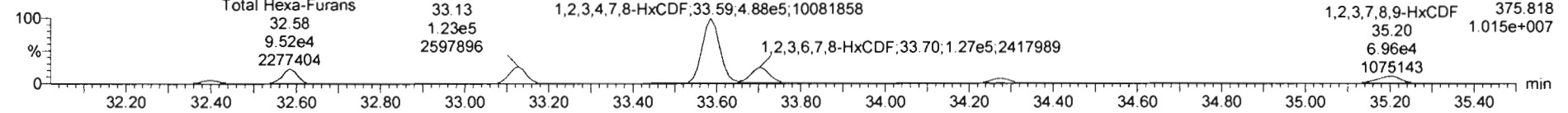
Printed: Monday, March 16, 2020 08:51:00 Pacific Daylight Time

Name: 200315R2_5, Date: 16-Mar-2020, Time: 03:10:00, ID: 2000144-10 PDI-081SC-A-09-10-191002 16.34, Description: PDI-081SC-A-09-10-191002

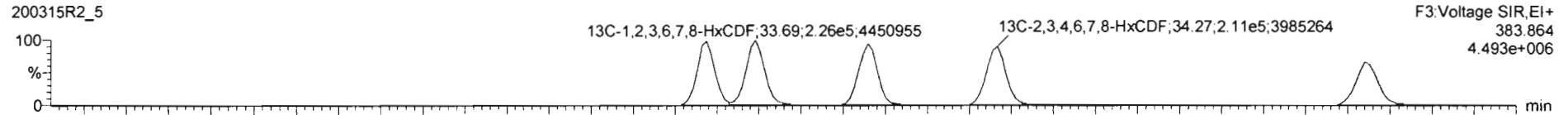
1,2,3,4,7,8-HxCDF



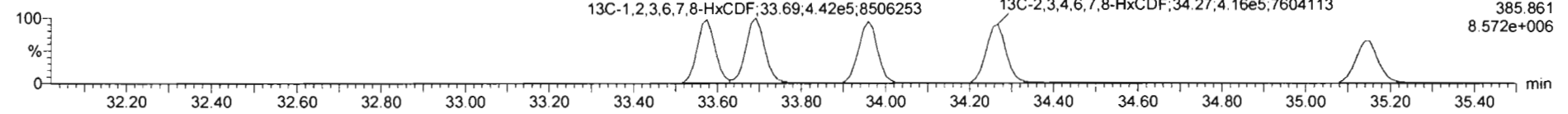
200315R2_5



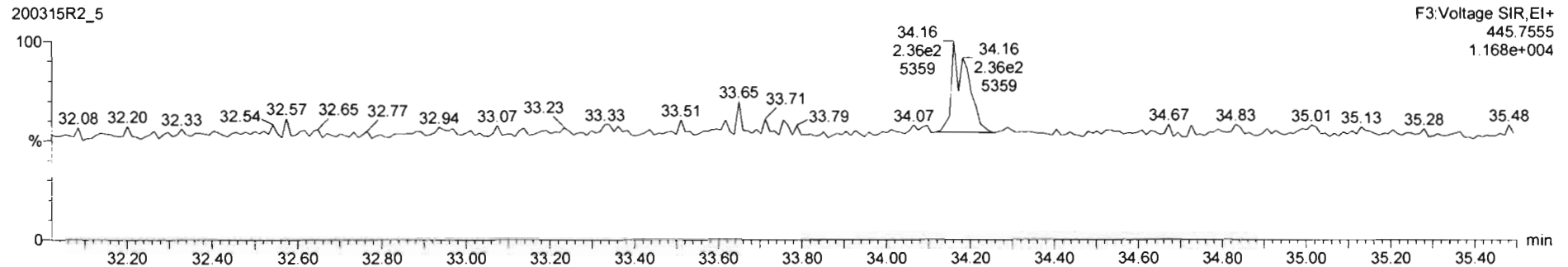
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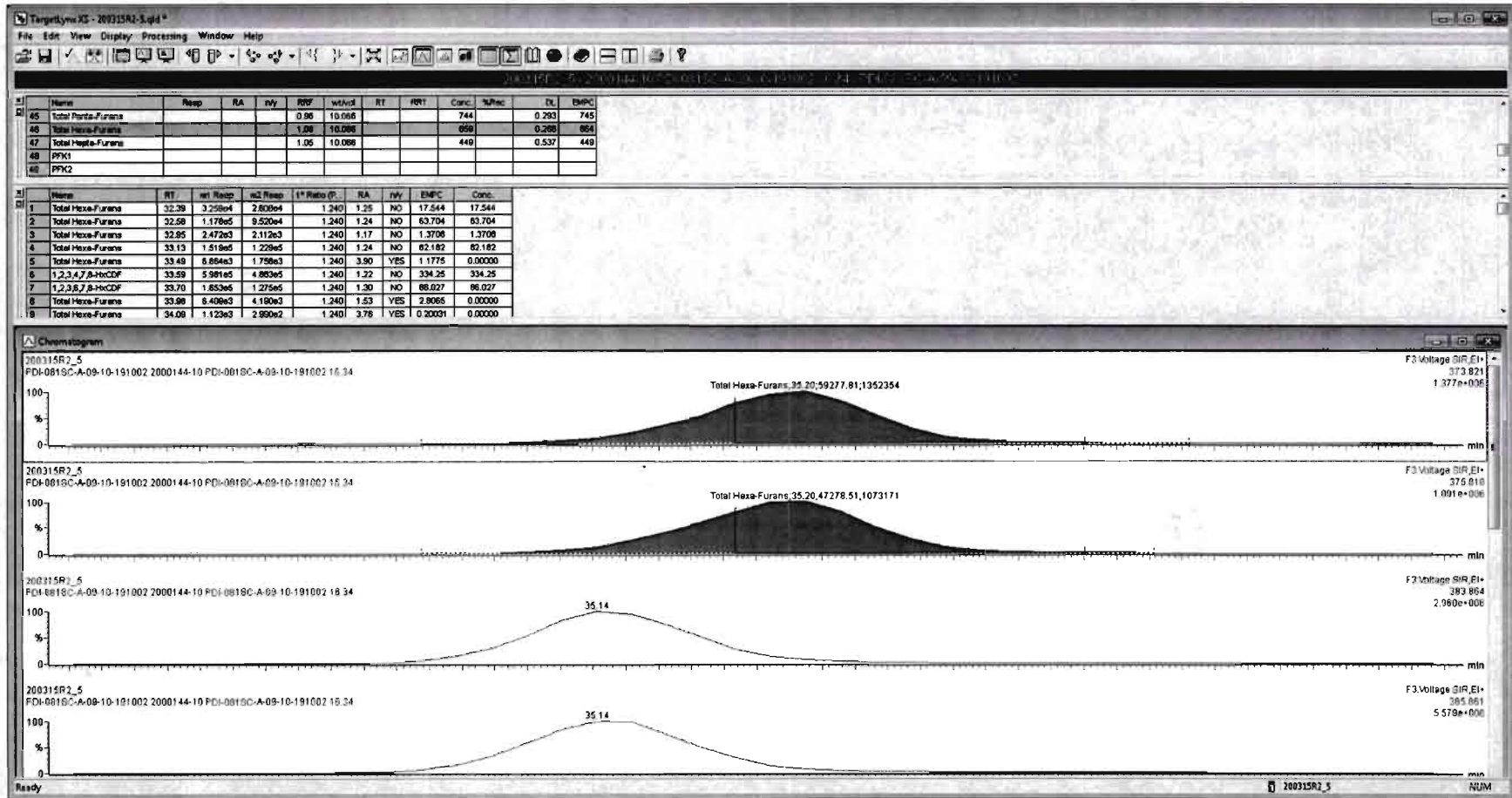


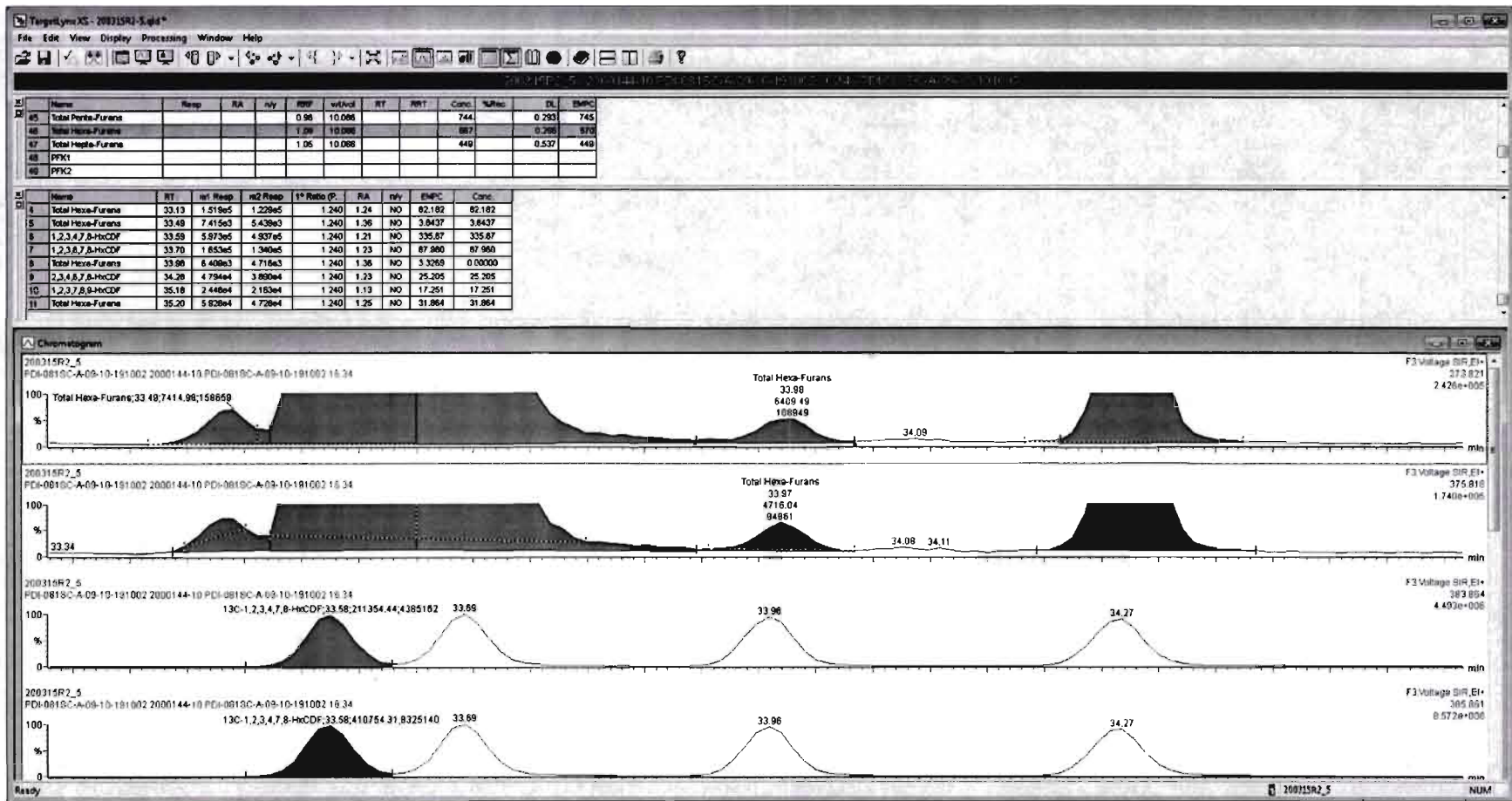
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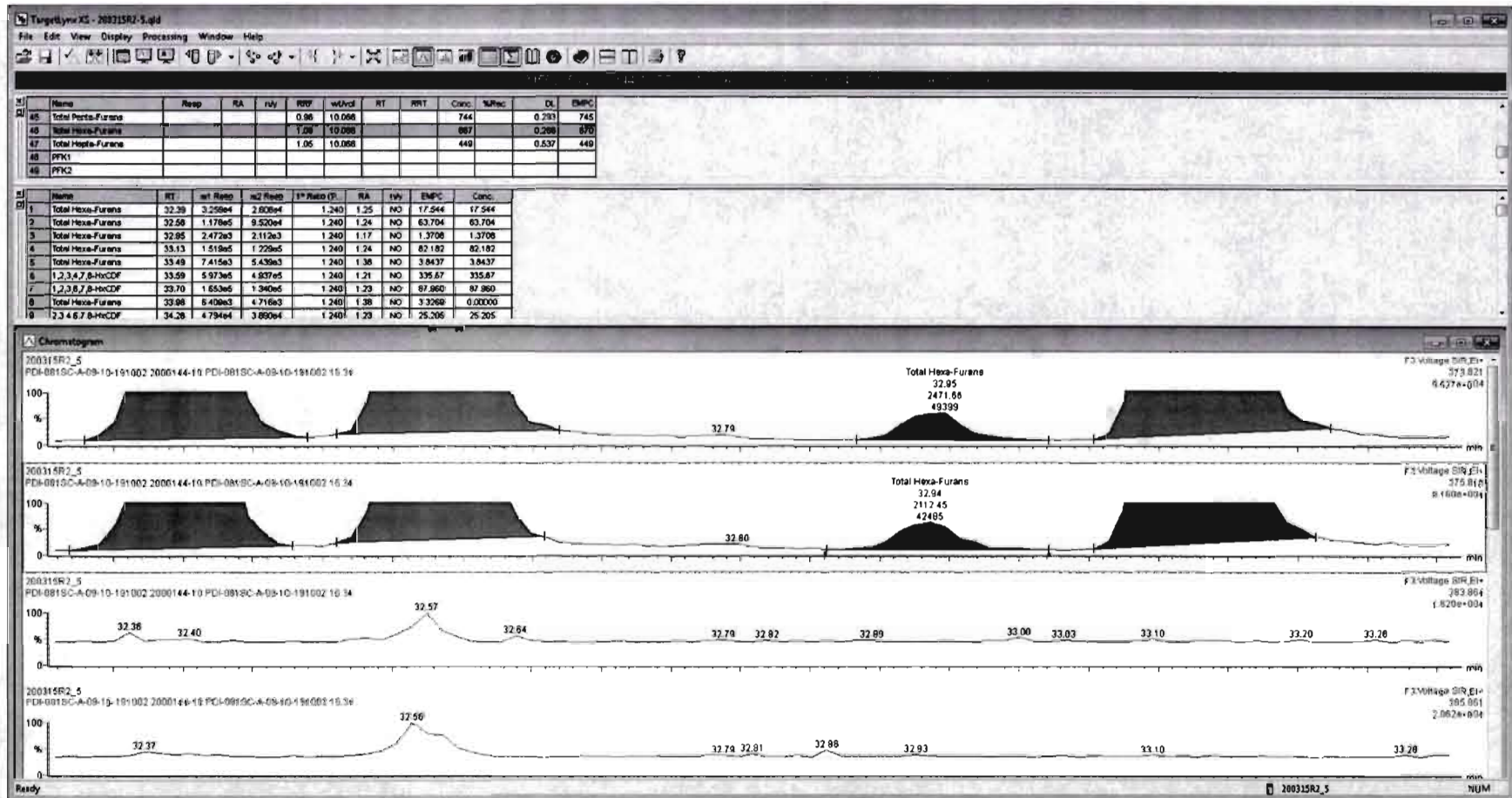


DPE3









Dataset: Untitled

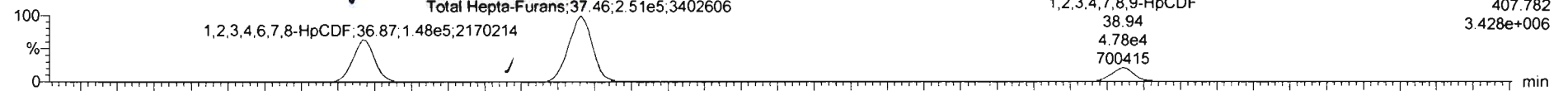
Last Altered: Monday, March 16, 2020 08:44:13 Pacific Daylight Time

Printed: Monday, March 16, 2020 08:51:00 Pacific Daylight Time

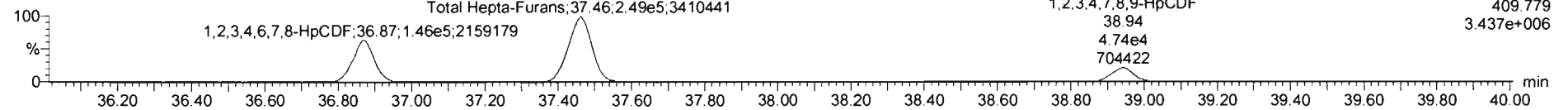
Name: 200315R2_5, Date: 16-Mar-2020, Time: 03:10:00, ID: 2000144-10 PDI-081SC-A-09-10-191002 16.34, Description: PDI-081SC-A-09-10-191002

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

200315R2_5

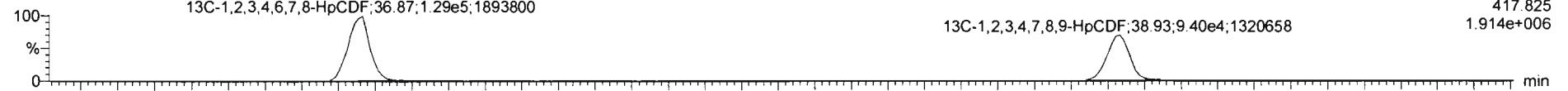


200315R2_5

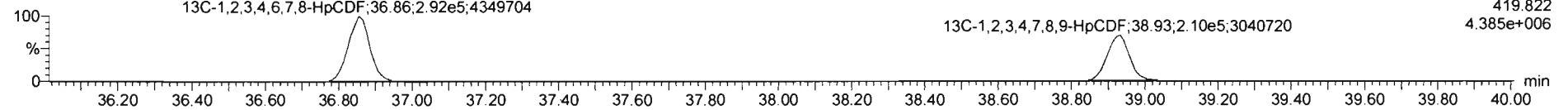


13C-1,2,3,4,6,7,8-HpCDF

200315R2_5

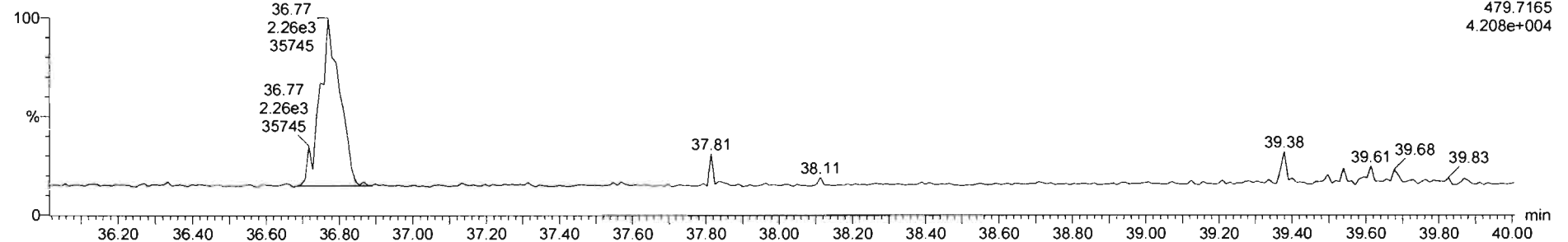


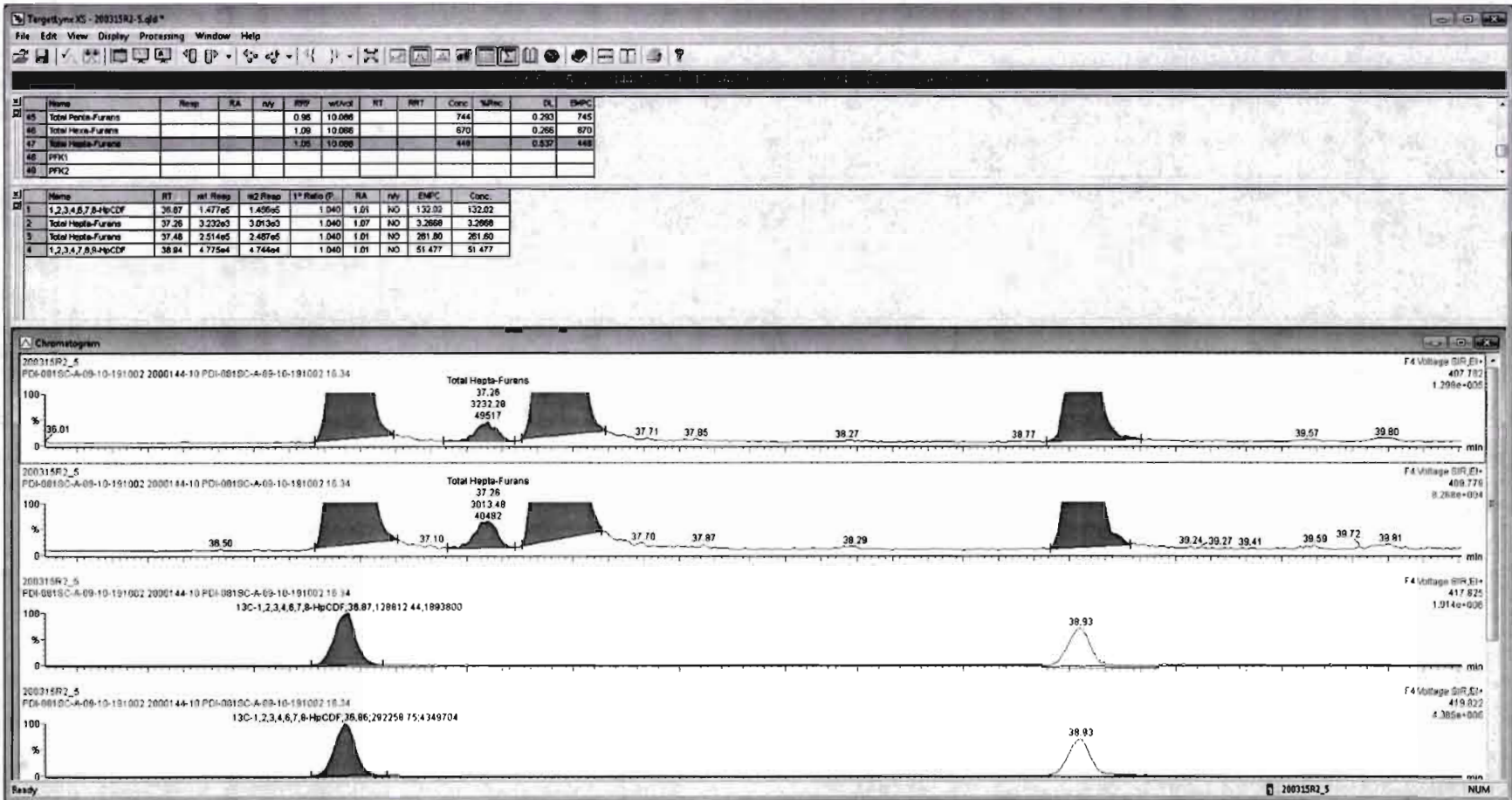
200315R2_5



DPE4

200315R2_5

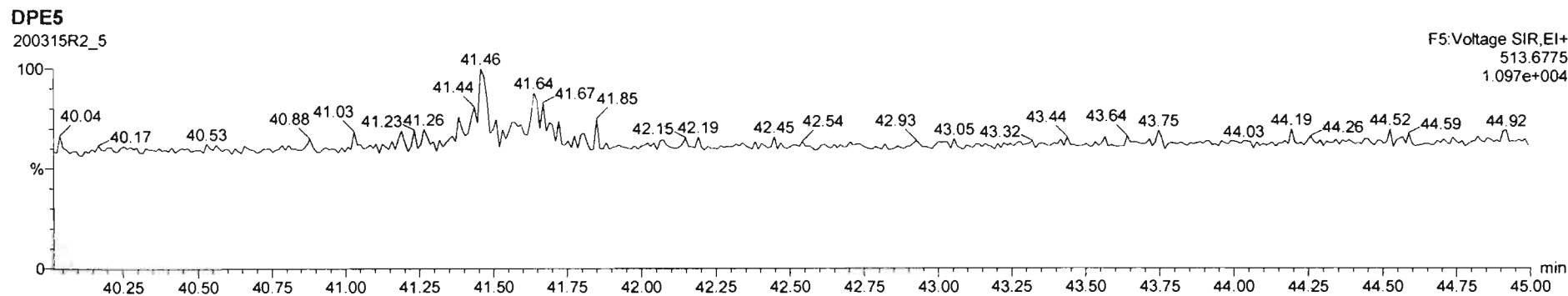
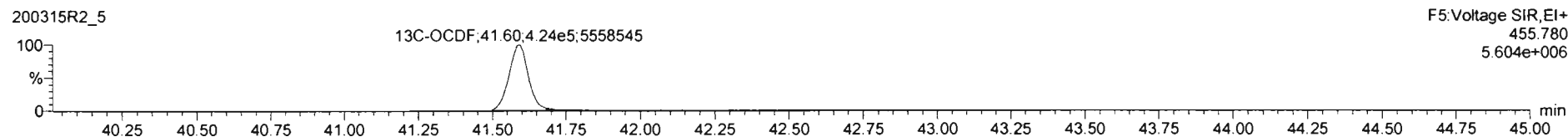
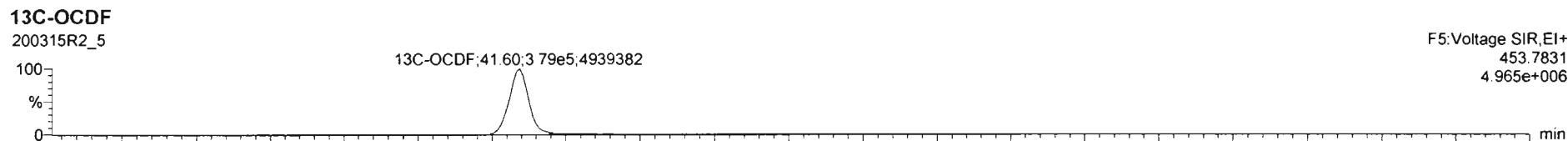
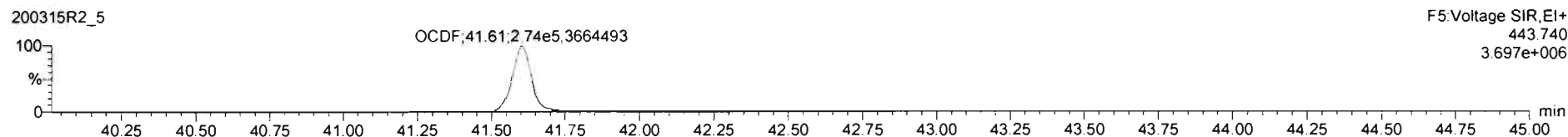
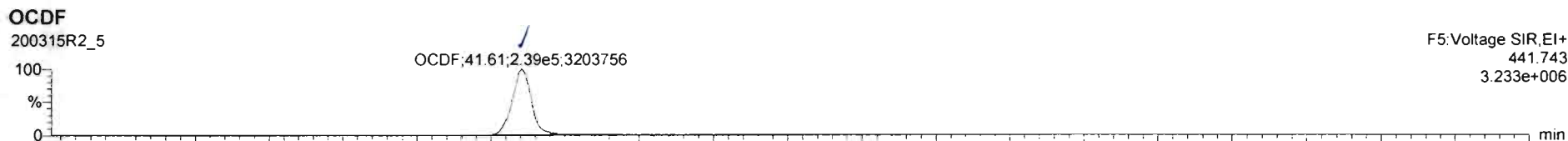




Dataset: Untitled

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_5, Date: 16-Mar-2020, Time: 03:10:00, ID: 2000144-10 PDI-081SC-A-09-10-191002 16.34, Description: PDI-081SC-A-09-10-191002

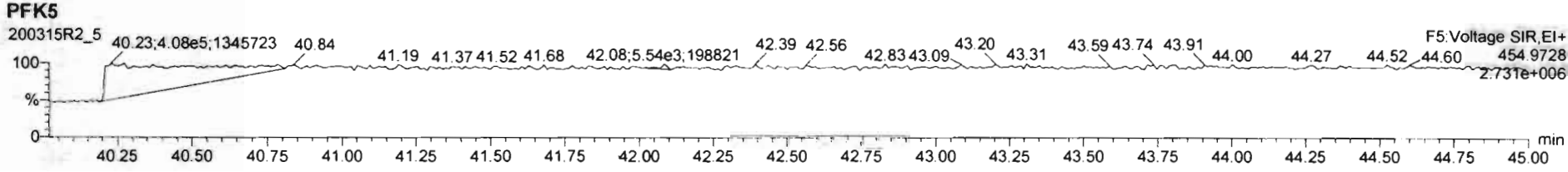
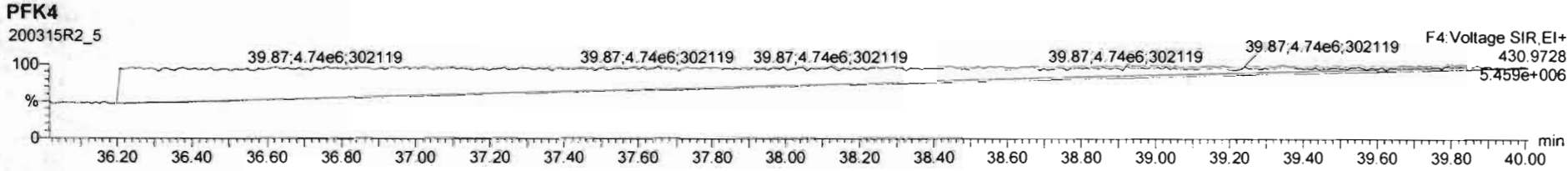
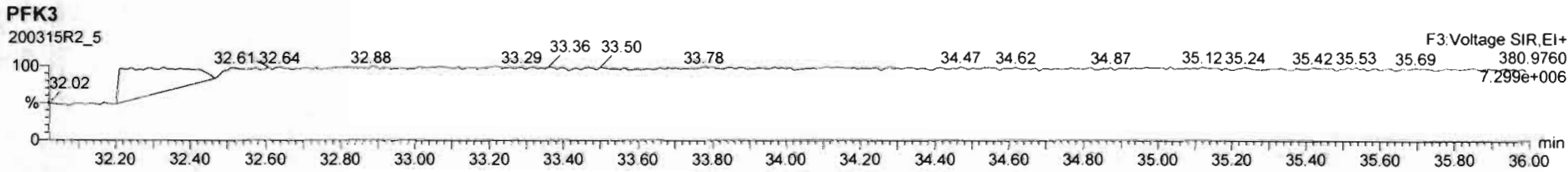
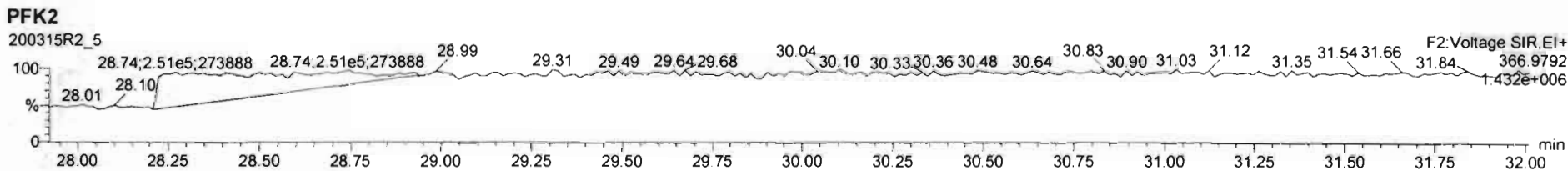
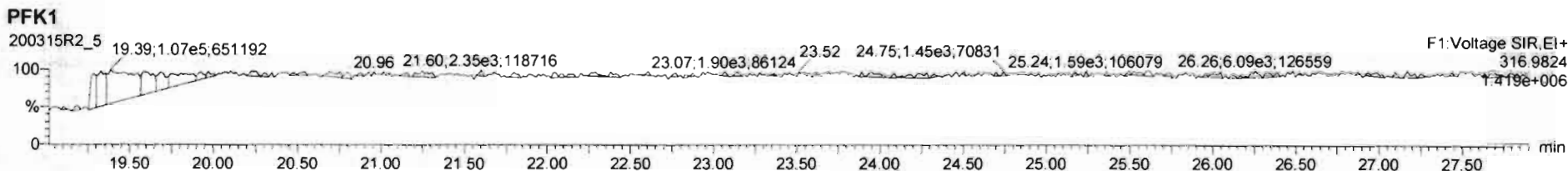


Dataset: Untitled

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_5, Date: 16-Mar-2020, Time: 08:10:00, ID: 2000144-10 PDI-081SC-A-09-10-191002 16.34, Description: PDI-081SC-A-09-10-191002



Dataset: U:\VG12.PRO\Results\200315R2\200315R2-6.qld

Last Altered: Wednesday, March 25, 2020 12:01:20 Pacific Daylight Time

Printed: Wednesday, March 25, 2020 12:02:33 Pacific Daylight Time

03/25/2020

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

03/26/2020

Name: 200315R2_6, Date: 16-Mar-2020, Time: 03:57:33, ID: 2000144-11 PDI-082SC-A-04-05-191002 17.76, Description: PDI-082SC-A-04-05-191002 ** See dil*

#	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	6.64e3	9.38e5	0.756	NO	10.00	25.78	25.78	1.00	1.00	NO	1.4392		0.106	1.4392
2	2 1,2,3,7,8-PeCDD	1.06e4	6.91e5	0.695	NO	10.00	31.04	31.03	1.00	1.00	NO	3.3194		0.150	3.3194
3	3 1,2,3,4,7,8-HxCDD	1.19e4	4.74e5	1.216	NO	10.00	34.45	34.45	1.00	1.00	NO	4.4418		0.386	4.4418
4	4 1,2,3,6,7,8-HxCDD	6.92e4	6.00e5	1.201	NO	10.00	34.53	34.56	1.00	1.00	NO	23.442		0.369	23.442
5	5 1,2,3,7,8,9-HxCDD	2.52e4	5.20e5	1.240	NO	10.00	34.81	34.82	1.00	1.00	NO	10.010		0.448	10.010
6	6 1,2,3,4,6,7,8-HpCDD	1.21e6	3.75e5	1.022	NO	10.00	38.27	38.28	1.00	1.00	NO	641.83		1.419	641.83
7	7 OCDD	1.25e7	4.82e5	0.883	NO	10.00	41.41	41.42	1.00	1.00	NO	9849.0	<i>*E flag</i>	1.874	9849.0
8	8 2,3,7,8-TCDF	1.57e6	1.12e6	0.764	NO	10.00	24.79	24.78	1.00	1.00	NO	304.90	<i>(226)</i>	0.230	304.90
9	9 1,2,3,7,8-PeCDF	2.73e6	9.92e5	1.538	NO	10.00	29.70	29.69	1.00	1.00	NO	574.08		0.334	574.08
10	10 2,3,4,7,8-PeCDF	1.28e6	9.20e5	1.538	NO	10.00	30.73	30.73	1.00	1.00	NO	277.10		0.341	277.10
11	11 1,2,3,4,7,8-HxCDF	3.53e6	6.64e5	1.210	NO	10.00	33.58	33.60	1.00	1.00	NO	1022.3		0.408	1022.3
12	12 1,2,3,6,7,8-HxCDF	9.35e5	7.00e5	1.212	NO	10.00	33.70	33.71	1.00	1.00	NO	263.99		0.407	263.99
13	13 2,3,4,6,7,8-HxCDF	2.57e5	6.05e5	1.228	NO	10.00	34.30	34.28	1.00	1.00	NO	77.944		0.464	77.944
14	14 1,2,3,7,8,9-HxCDF	1.43e5	5.35e5	1.158	NO	10.00	35.14	35.18	1.00	1.00	NO	52.179		0.641	52.179
15	15 1,2,3,4,6,7,8-HpCDF	1.09e6	4.32e5	1.019	NO	10.00	36.88	36.87	1.00	1.00	NO	482.36		0.708	482.36
16	16 1,2,3,4,7,8,9-HpCDF	3.11e5	3.09e5	1.015	NO	10.00	38.92	38.93	1.00	1.00	NO	166.61		0.842	166.61
17	17 OCDF	1.79e6	7.80e5	0.868	NO	10.00	41.58	41.61	1.00	1.00	NO	971.20		0.706	971.20
18	18 13C-2,3,7,8-TCDD	9.38e5	8.06e5	0.763	NO	10.00	25.73	25.75	1.03	1.03	NO	196.33	98.2	0.305	
19	19 13C-1,2,3,7,8-PeCDD	6.91e5	8.06e5	0.623	NO	10.00	30.92	31.02	1.24	1.24	NO	198.24	99.2	0.424	
20	20 13C-1,2,3,4,7,8-HxCDD	4.74e5	6.96e5	1.256	NO	10.00	34.43	34.44	1.01	1.01	NO	180.58	90.3	0.454	
21	21 13C-1,2,3,6,7,8-HxCDD	6.00e5	6.96e5	1.258	NO	10.00	34.54	34.53	1.02	1.02	NO	186.16	93.1	0.370	
22	22 13C-1,2,3,7,8,9-HxCDD	5.20e5	6.96e5	1.217	NO	10.00	34.80	34.80	1.02	1.02	NO	180.14	90.1	0.413	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.75e5	6.96e5	1.022	NO	10.00	38.26	38.26	1.13	1.13	NO	180.16	90.1	0.504	
24	24 13C-OCDD	4.82e5	6.96e5	0.870	NO	10.00	41.41	41.41	1.22	1.22	NO	242.17	60.6	0.341	*
25	25 13C-2,3,7,8-TCDF	1.12e6	1.20e6	0.775	NO	10.00	24.76	24.76	0.99	0.99	NO	172.50	86.3	0.490	
26	26 13C-1,2,3,7,8-PeCDF	9.92e5	1.20e6	1.556	NO	10.00	29.59	29.67	1.18	1.19	NO	189.22	94.6	0.496	
27	27 13C-2,3,4,7,8-PeCDF	9.20e5	1.20e6	1.617	NO	10.00	30.60	30.70	1.22	1.23	NO	182.35	91.2	0.515	
28	28 13C-1,2,3,4,7,8-HxCDF	6.64e5	6.96e5	0.511	NO	10.00	33.58	33.58	0.99	0.99	NO	190.71	95.4	0.489	
29	29 13C-1,2,3,6,7,8-HxCDF	7.00e5	6.96e5	0.506	NO	10.00	33.69	33.69	0.99	0.99	NO	179.78	89.9	0.437	
30	30 13C-2,3,4,6,7,8-HxCDF	6.05e5	6.96e5	0.519	NO	10.00	34.27	34.27	1.01	1.01	NO	167.76	83.9	0.472	
31	31 13C-1,2,3,7,8,9-HxCDF	5.35e5	6.96e5	0.525	NO	10.00	35.14	35.14	1.03	1.03	NO	175.93	88.0	0.560	
32	32 13C-1,2,3,4,6,7,8-HpCDF	4.32e5	6.96e5	0.437	NO	10.00	36.86	36.85	1.09	1.08	NO	160.83	80.4	0.476	

Dataset: U:\VG12.PRO\Results\200315R2\200315R2-6.qld

Last Altered: Wednesday, March 25, 2020 12:01:20 Pacific Daylight Time

Printed: Wednesday, March 25, 2020 12:02:33 Pacific Daylight Time

Name: 200315R2_6, Date: 16-Mar-2020, Time: 03:57:33, ID: 2000144-11 PDI-082SC-A-04-05-191002 17.76, Description: PDI-082SC-A-04-05-191002

	# 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	3.09e5	6.96e5	0.435	NO	10.00	38.94	38.92	1.15	1.15	NO	170.72	85.4	0.707	
34	34 13C-OCDF	7.80e5	6.96e5	0.889	NO	10.00	41.59	41.58	1.22	1.22	NO	321.76	80.5	0.352	
35	35 37Cl-2,3,7,8-TCDD	3.26e5	8.06e5			10.00	25.74	25.78	1.03	1.03	NO	68.785	86.0	0.090	
36	36 13C-1,2,3,4-TCDD	8.06e5	8.06e5	0.784	NO	10.00	25.05	25.02	1.00	1.00	NO	199.92	100.0	0.361	
37	37 13C-1,2,3,4-TCDF	1.20e6	1.20e6	0.792	NO	10.00	23.19	23.10	1.00	1.00	NO	199.92	100.0	0.533	
38	38 13C-1,2,3,4,6,9-HxCDF	6.96e5	6.96e5	0.512	NO	10.00	33.88	33.96	1.00	1.00	NO	199.92	100.0	0.489	
39	39 Total Tetra-Dioxins		9.38e5			10.00	24.62		0.00		NO	28.057		0.106	28.165
40	40 Total Penta-Dioxins		6.91e5			10.00	29.96		0.00		NO	39.524		0.150	39.524
41	41 Total Hexa-Dioxins		0.00e0			10.00	33.63		0.00		NO	203.32		0.415	203.32
42	42 Total Hepta-Dioxins		3.75e5			10.00	37.64		0.00		NO	1637.1		1.419	1637.1
43	43 Total Tetra-Furans		1.12e6			10.00	23.61		0.00		NO	837.14		0.230	867.73
44	44 1st Func. Penta-Furans		0.00e0			10.00	27.09		0.00		NO	107.73		0.052	107.73
45	45 Total Penta-Furans		0.00e0			10.00	29.27		0.00		NO	1656.3		0.345	1656.3
46	46 Total Hexa-Furans		0.00e0			10.00	33.56		0.00		NO	1938.5		0.449	1938.5
47	47 Total Hepta-Furans		0.00e0			10.00	37.83		0.00		NO	1395.1		0.818	1395.1

Dataset: U:\VG12.PRO\Results\200315R2\200315R2-6.qld

Last Altered: Wednesday, March 25, 2020 12:01:20 Pacific Daylight Time

Printed: Wednesday, March 25, 2020 12:02:33 Pacific Daylight Time

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

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

Name: 200315R2_6, Date: 16-Mar-2020, Time: 03:57:33

Tetra-Dioxins

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	39 Total Tetra-Dioxins	26.29	0.904	YES	2.55e2	4.06e5	0.000	0.108
2	39 Total Tetra-Dioxins	26.13	0.864	NO	1.07e3	4.06e5	0.502	0.502
3	1 2,3,7,8-TCDD	25.78	0.756	NO	2.86e3	4.06e5	1.44	1.44
4	39 Total Tetra-Dioxins	25.48	0.740	NO	3.82e3	4.06e5	1.95	1.95
5	39 Total Tetra-Dioxins	25.00	0.715	NO	8.23e2	4.06e5	0.428	0.428
6	39 Total Tetra-Dioxins	24.60	0.880	NO	1.18e3	4.06e5	0.549	0.549
7	39 Total Tetra-Dioxins	24.39	0.729	NO	5.94e2	4.06e5	0.305	0.305
8	39 Total Tetra-Dioxins	24.12	0.719	NO	8.57e2	4.06e5	0.444	0.444
9	39 Total Tetra-Dioxins	23.88	0.776	NO	3.04e3	4.06e5	1.51	1.51
10	39 Total Tetra-Dioxins	23.59	0.802	NO	2.91e3	4.06e5	1.42	1.42
11	39 Total Tetra-Dioxins	23.33	0.733	NO	7.78e2	4.06e5	0.399	0.399
12	39 Total Tetra-Dioxins	22.32	0.679	NO	1.51e3	4.06e5	0.811	0.811
13	39 Total Tetra-Dioxins	21.83	0.777	NO	1.09e4	4.06e5	5.42	5.42
14	39 Total Tetra-Dioxins	21.44	0.785	NO	2.58e4	4.06e5	12.7	12.7
15	39 Total Tetra-Dioxins	26.81	0.810	NO	3.29e2	4.06e5	0.159	0.159

Penta-Dioxins

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	40 Total Penta-Dioxins	31.11	0.565	NO	1.04e3	2.65e5	0.906	0.906
2	2 1,2,3,7,8-PeCDD	31.03	0.695	NO	4.33e3	2.65e5	3.32	3.32
3	40 Total Penta-Dioxins	30.59	0.719	NO	1.27e3	2.65e5	0.951	0.951
4	40 Total Penta-Dioxins	30.24	0.561	NO	4.77e3	2.65e5	4.17	4.17
5	40 Total Penta-Dioxins	30.01	0.601	NO	3.43e3	2.65e5	2.87	2.87
6	40 Total Penta-Dioxins	29.93	0.616	NO	4.30e3	2.65e5	3.54	3.54
7	40 Total Penta-Dioxins	29.75	0.637	NO	1.03e4	2.65e5	8.32	8.32
8	40 Total Penta-Dioxins	29.22	0.610	NO	2.73e3	2.65e5	2.27	2.27
9	40 Total Penta-Dioxins	28.71	0.608	NO	1.46e4	2.65e5	12.2	12.2
10	40 Total Penta-Dioxins	31.43	0.578	NO	1.20e3	2.65e5	1.03	1.03

Dataset: U:\VG12.PRO\Results\200315R2\200315R2-6.qld

Last Altered: Wednesday, March 25, 2020 12:01:20 Pacific Daylight Time

Printed: Wednesday, March 25, 2020 12:02:33 Pacific Daylight Time

Name: 200315R2_6, Date: 16-Mar-2020, Time: 03:57:33

Hexa-Dioxins

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	41 Total Hexa-Dioxins	33.52	1.272	NO	1.46e4	2.94e5	9.95	9.95
2	41 Total Hexa-Dioxins	32.97	1.249	NO	1.02e5	2.94e5	70.4	70.4
3	5 1,2,3,7,8,9-HxCDD	34.82	1.240	NO	1.39e4	2.85e5	10.0	10.0
4	41 Total Hexa-Dioxins	34.74	1.056	NO	2.66e3	2.94e5	1.98	1.98
5	4 1,2,3,6,7,8-HxCDD	34.56	1.201	NO	3.78e4	3.34e5	23.4	23.4
6	3 1,2,3,4,7,8-HxCDD	34.45	1.216	NO	6.54e3	2.64e5	4.44	4.44
7	41 Total Hexa-Dioxins	33.78	1.215	NO	1.19e5	2.94e5	83.1	83.1

Hepta-Dioxins

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	38.28	1.022	NO	6.12e5	1.90e5	642	642
2	42 Total Hepta-Dioxins	37.26	1.015	NO	9.47e5	1.90e5	995	995

Dataset: U:\VG12.PRO\Results\200315R2\200315R2-6.qld

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Name: 200315R2_6, Date: 16-Mar-2020, Time: 03:57:33

Tetra-Furans

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	43 Total Tetra-Furans	21.41	0.759	NO	1.72e5	4.91e5	77.4	77.4
2	43 Total Tetra-Furans	21.02	0.756	NO	3.15e4	4.91e5	14.2	14.2
3	43 Total Tetra-Furans	20.50	0.747	NO	3.62e4	4.91e5	16.5	16.5
4	43 Total Tetra-Furans	19.93	0.748	NO	7.28e3	4.91e5	3.30	3.30
5	43 Total Tetra-Furans	19.40	0.774	NO	2.63e3	4.91e5	1.17	1.17
6	43 Total Tetra-Furans	25.47	0.824	NO	4.20e3	4.91e5	1.81	1.81
7	43 Total Tetra-Furans	25.20	0.744	NO	2.60e4	4.91e5	11.8	11.8
8	8 2,3,7,8-TCDF	24.78	0.764	NO	6.79e5	4.91e5	305	305
9	43 Total Tetra-Furans	24.66	0.755	NO	5.48e4	4.91e5	24.8	24.8
10	43 Total Tetra-Furans	24.54	0.768	NO	5.41e3	4.91e5	2.42	2.42
11	43 Total Tetra-Furans	24.04	0.750	NO	2.26e4	4.91e5	10.2	10.2
12	43 Total Tetra-Furans	23.71	0.754	NO	6.39e5	4.91e5	289	289
13	43 Total Tetra-Furans	23.12	0.739	NO	8.58e4	4.91e5	39.2	39.2
14	43 Total Tetra-Furans	22.83	0.791	NO	2.65e3	4.91e5	1.16	1.16
15	43 Total Tetra-Furans	22.65	0.712	NO	4.78e3	4.91e5	2.23	2.23
16	43 Total Tetra-Furans	22.23	0.764	NO	2.32e4	4.91e5	10.4	10.4
17	43 Total Tetra-Furans	22.02	0.732	NO	3.35e3	4.91e5	1.54	1.54
18	43 Total Tetra-Furans	21.86	0.758	NO	5.62e4	4.91e5	25.3	25.3
19	43 Total Tetra-Furans	26.96	0.951	YES	8.46e4	4.91e5	0.000	30.6

Penta-Furans function 1

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	44 1st Func. Penta-Furans	26.96	1.580	NO	3.03e5	5.86e5	108	108

Dataset: U:\VG12.PRO\Results\200315R2\200315R2-6.qld

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Printed: Wednesday, March 25, 2020 12:02:33 Pacific Daylight Time

Name: 200315R2_6, Date: 16-Mar-2020, Time: 03:57:33

Penta-Furans

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	45 Total Penta-Furans	28.50	1.536	NO	3.25e4	5.86e5	11.7	11.7
2	10 2,3,4,7,8-PeCDF	30.73	1.538	NO	7.75e5	5.69e5	277	277
3	45 Total Penta-Furans	30.61	1.654	NO	1.02e4	5.86e5	3.55	3.55
4	45 Total Penta-Furans	29.98	1.545	NO	7.20e5	5.86e5	258	258
5	9 1,2,3,7,8-PeCDF	29.69	1.538	NO	1.66e6	6.04e5	574	574
6	45 Total Penta-Furans	29.49	1.560	NO	2.39e5	5.86e5	85.7	85.7
7	45 Total Penta-Furans	29.28	1.562	NO	5.87e4	5.86e5	21.0	21.0
8	45 Total Penta-Furans	28.65	1.532	NO	9.32e5	5.86e5	336	336
9	45 Total Penta-Furans	30.74	1.636	NO	2.53e5	5.86e5	89.0	89.0

Hexa-Furans

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	14 1,2,3,7,8,9-HxCDF	35.18	1.158	NO	7.69e4	1.84e5	52.2	52.2
2	13 2,3,4,6,7,8-HxCDF	34.28	1.228	NO	1.42e5	2.07e5	77.9	77.9
3	12 1,2,3,6,7,8-HxCDF	33.71	1.212	NO	5.13e5	2.35e5	264	264
4	11 1,2,3,4,7,8-HxCDF	33.60	1.210	NO	1.93e6	2.25e5	1020	1020
5	46 Total Hexa-Furans	33.49	1.297	NO	2.27e4	2.13e5	11.8	11.8
6	46 Total Hexa-Furans	33.13	1.218	NO	3.53e5	2.13e5	188	188
7	46 Total Hexa-Furans	32.95	1.326	NO	6.65e3	2.13e5	3.41	3.41
8	46 Total Hexa-Furans	32.58	1.221	NO	3.58e5	2.13e5	190	190
9	46 Total Hexa-Furans	32.40	1.218	NO	9.68e4	2.13e5	51.6	51.6
10	46 Total Hexa-Furans	35.19	1.238	NO	1.46e5	2.13e5	77.0	77.0

Hepta-Furans

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	16 1,2,3,4,7,8,9-HpCDF	38.93	1.015	NO	1.57e5	9.35e4	167	167
2	47 Total Hepta-Furans	37.45	1.006	NO	7.16e5	1.12e5	736	736
3	47 Total Hepta-Furans	37.25	1.016	NO	1.02e4	1.12e5	10.4	10.4
4	15 1,2,3,4,6,7,8-HpCDF	36.87	1.019	NO	5.51e5	1.31e5	482	482

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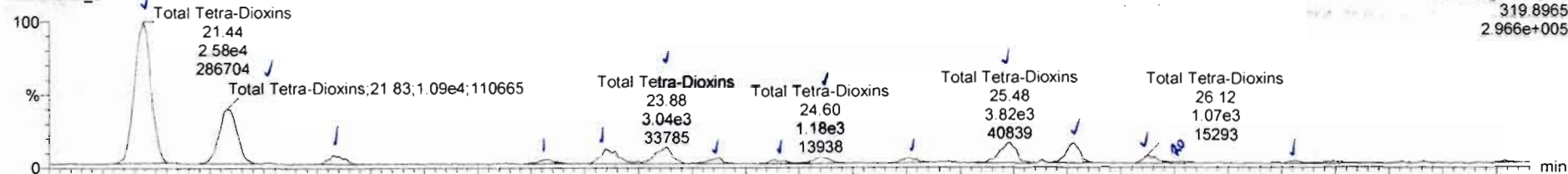
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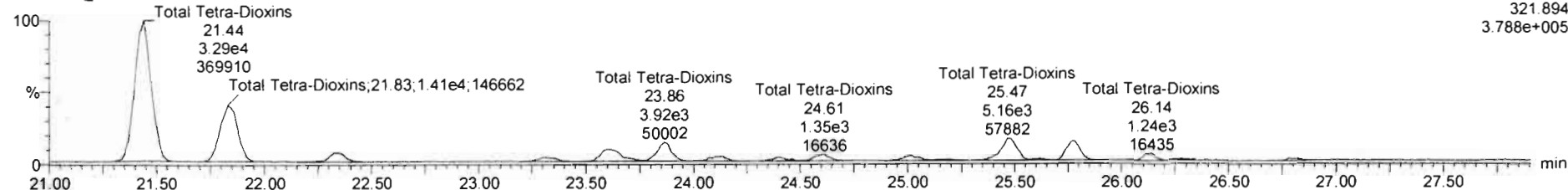
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2,3,7,8-TCDD

200315R2_6

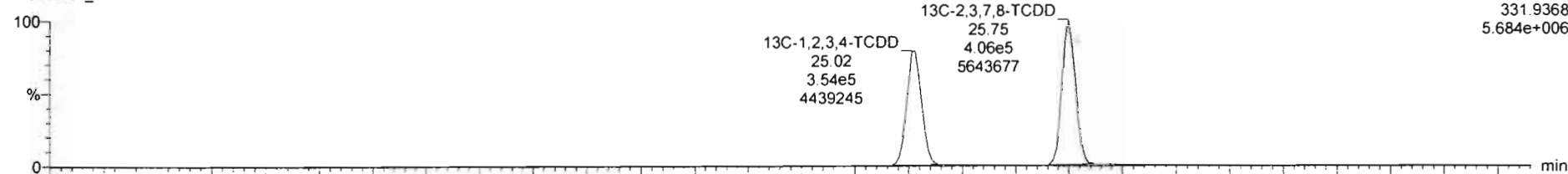


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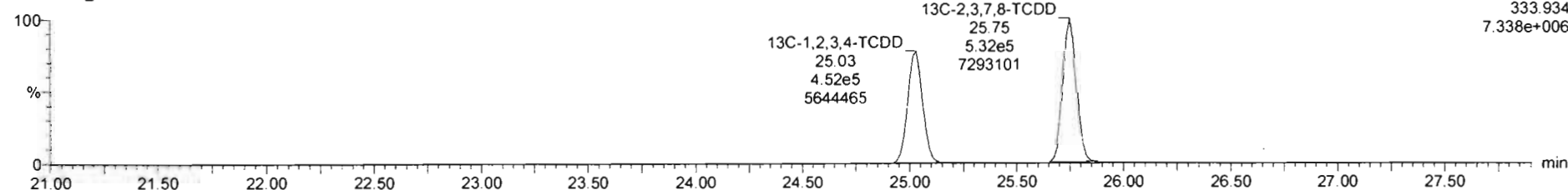


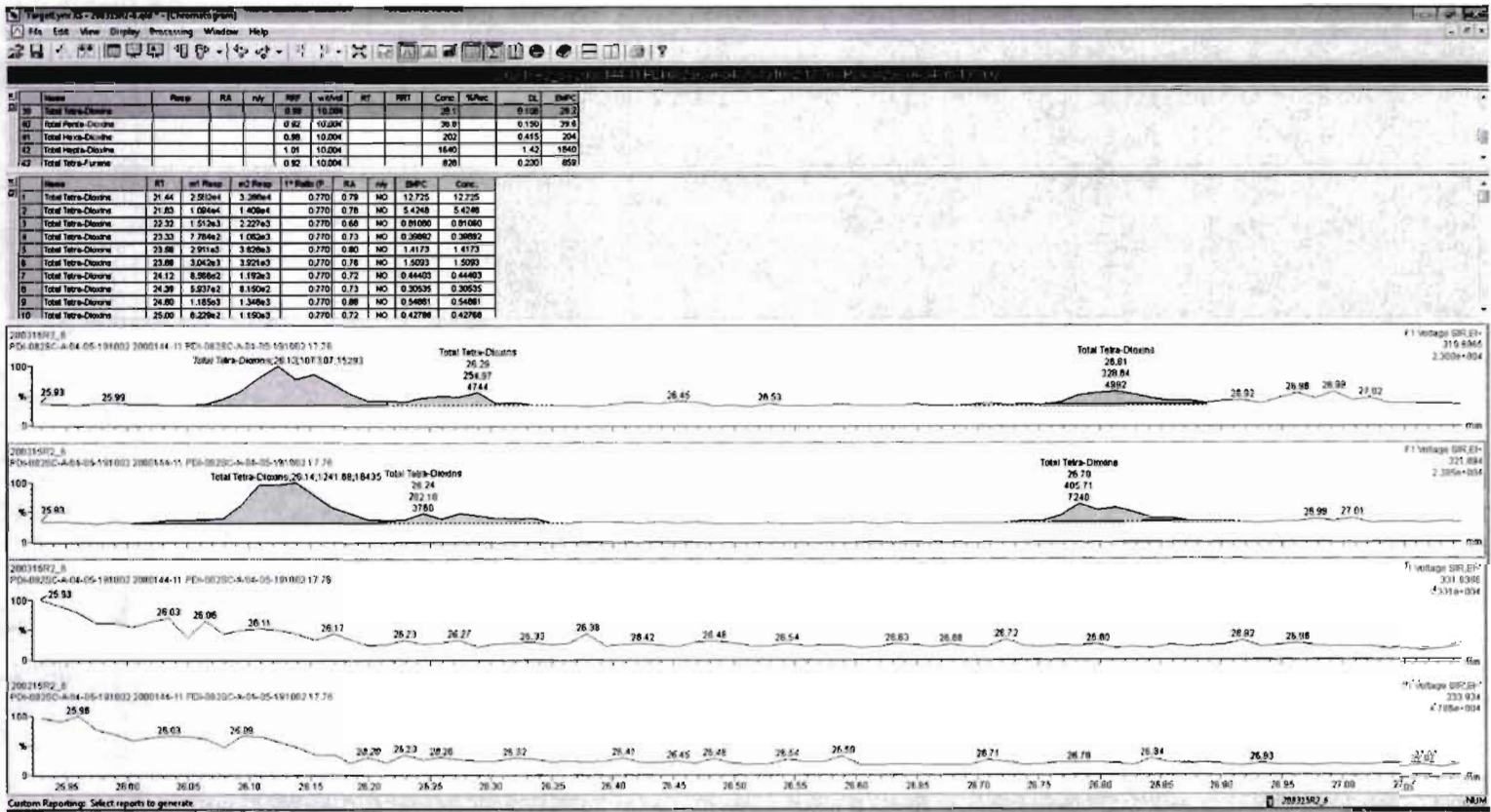
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200315R2_6





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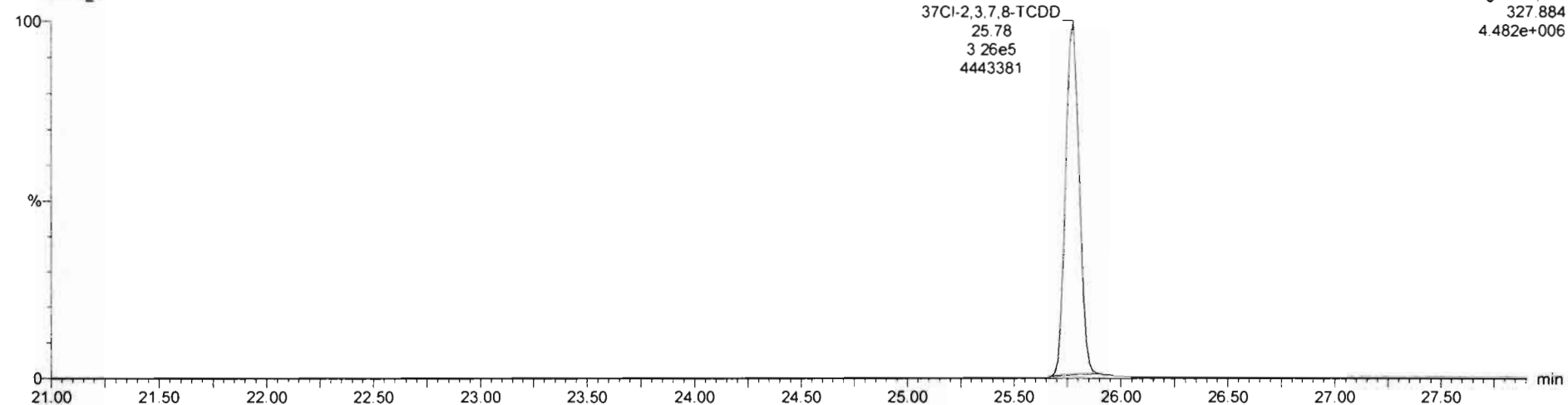
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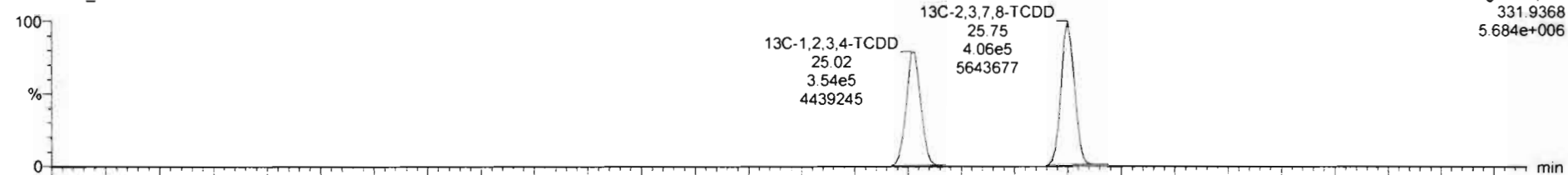
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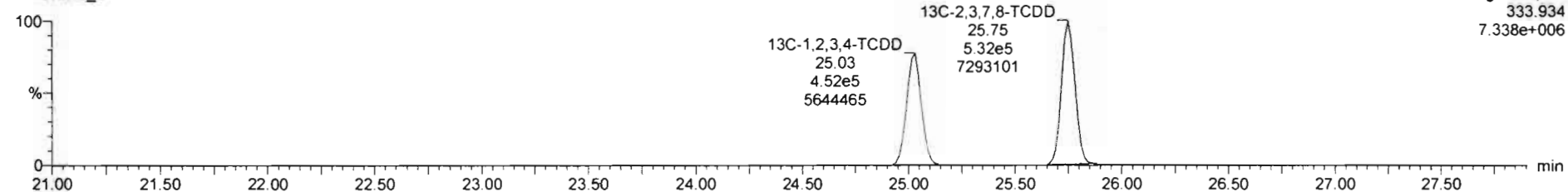


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200315R2_6



200315R2_6



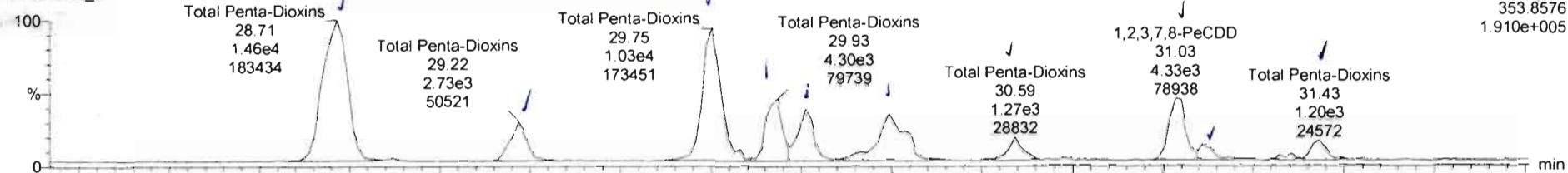
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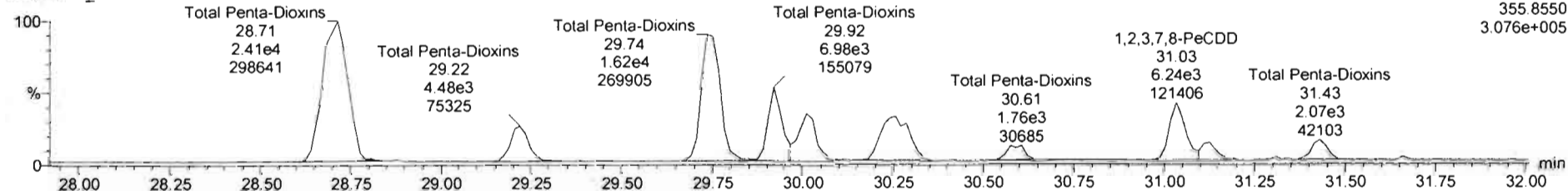
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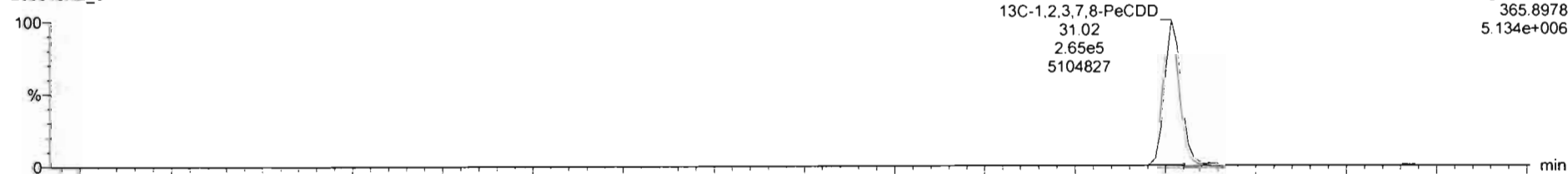


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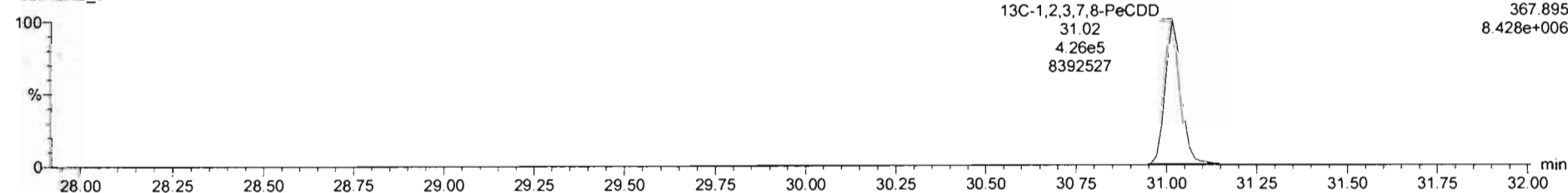


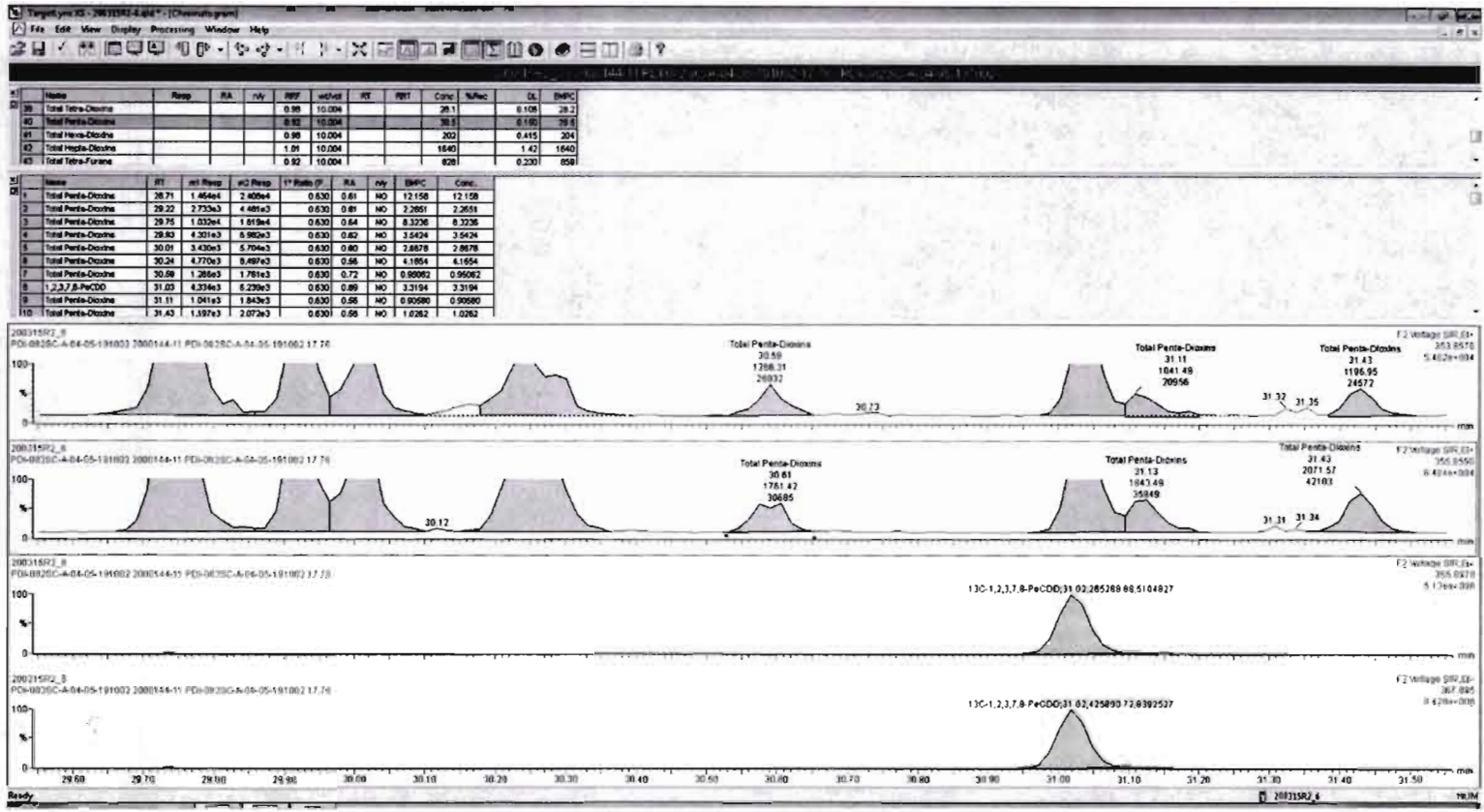
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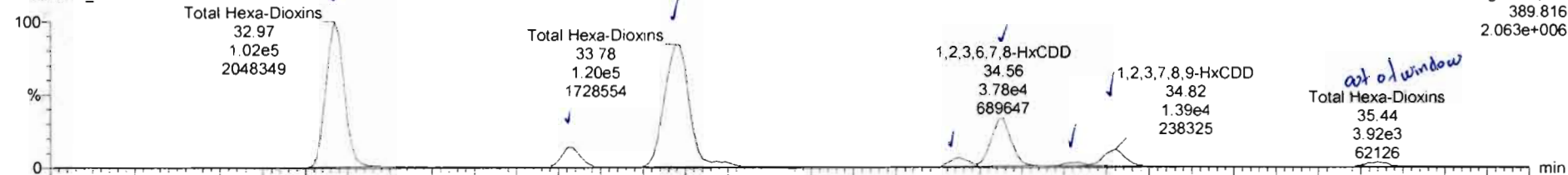
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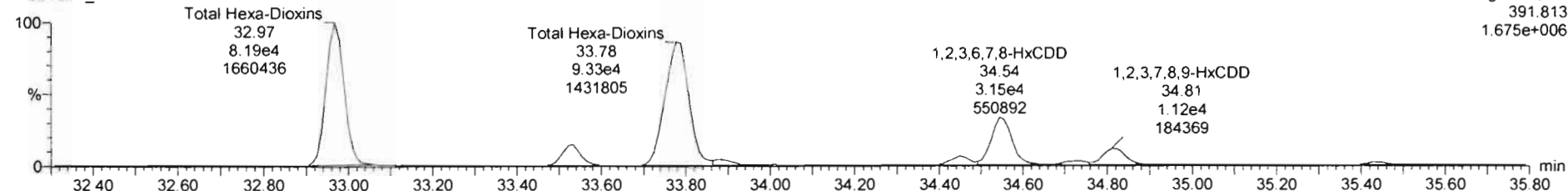
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1,2,3,4,7,8-HxCDD

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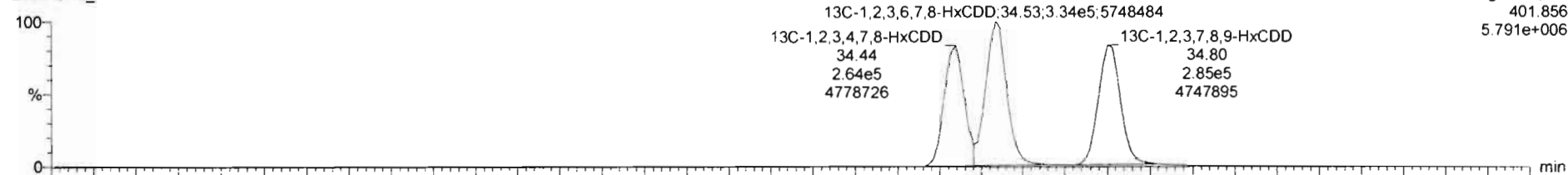


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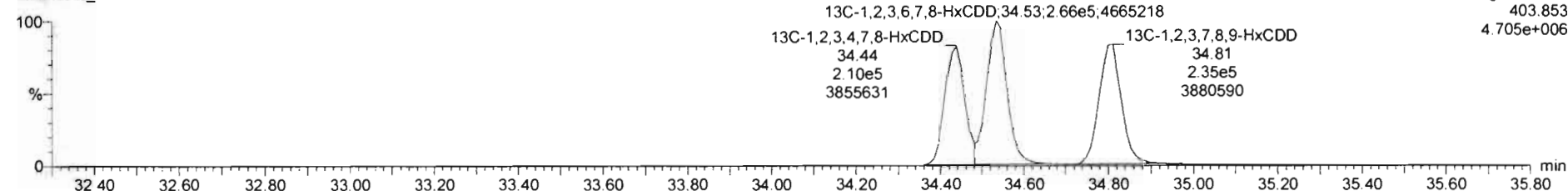


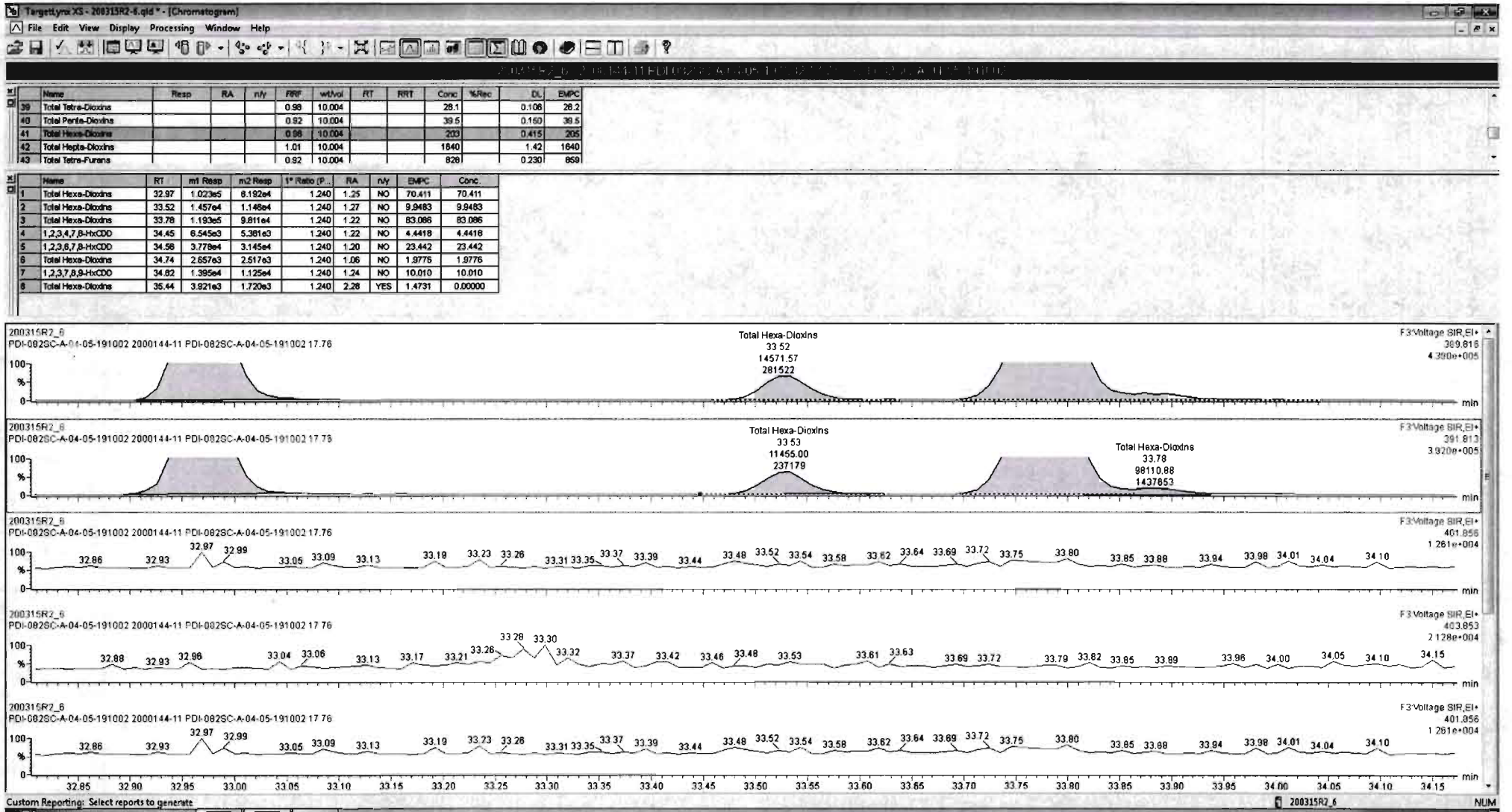
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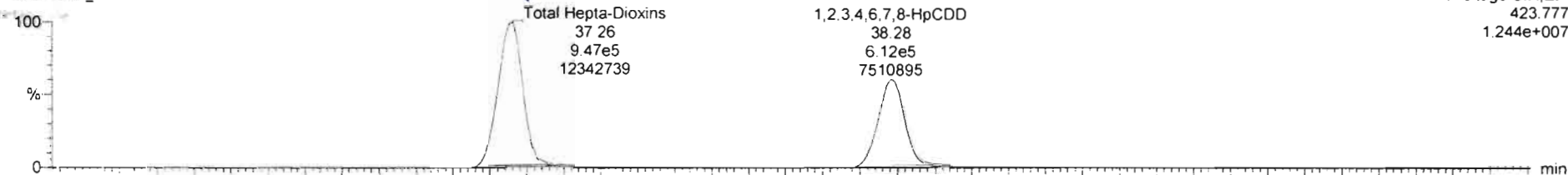
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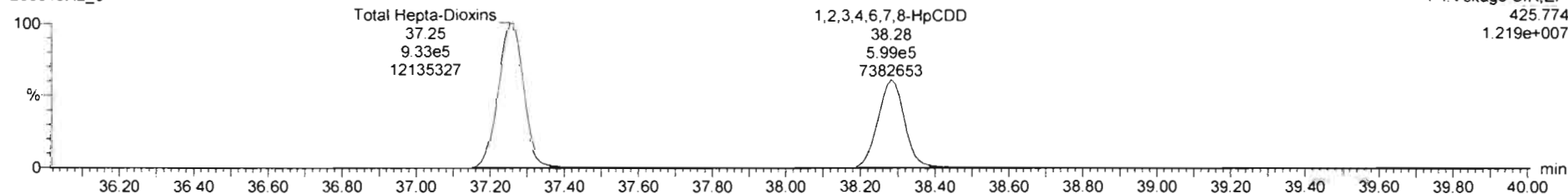
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200315R2_6



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1.244e+007

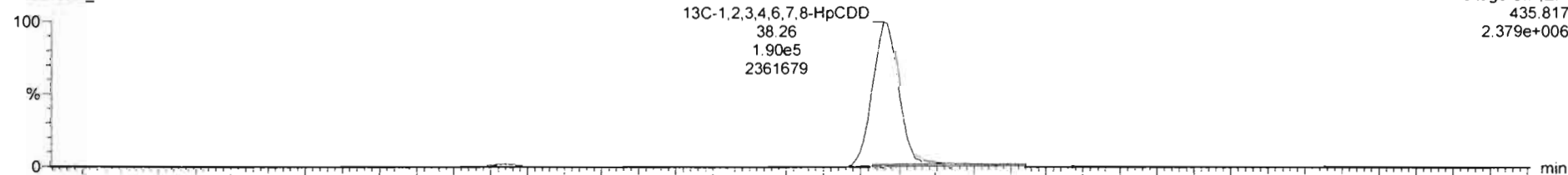
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F4: Voltage SIR, EI+
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1.219e+007

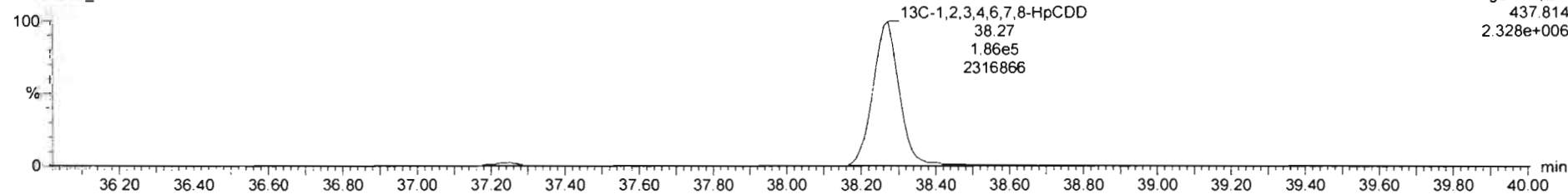
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200315R2_6



F4: Voltage SIR, EI+
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2.379e+006

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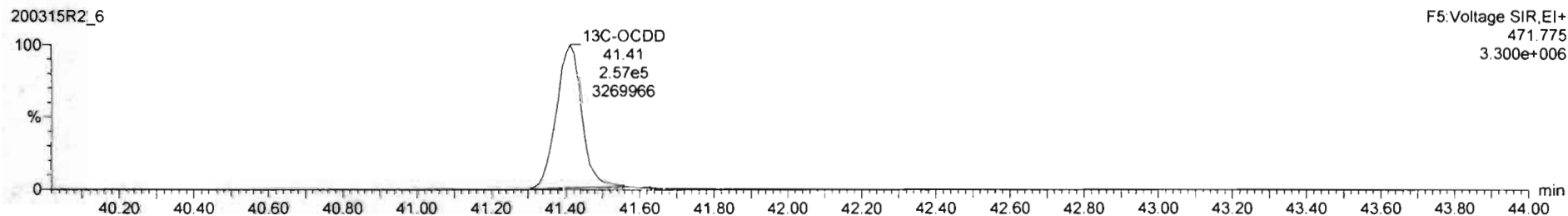
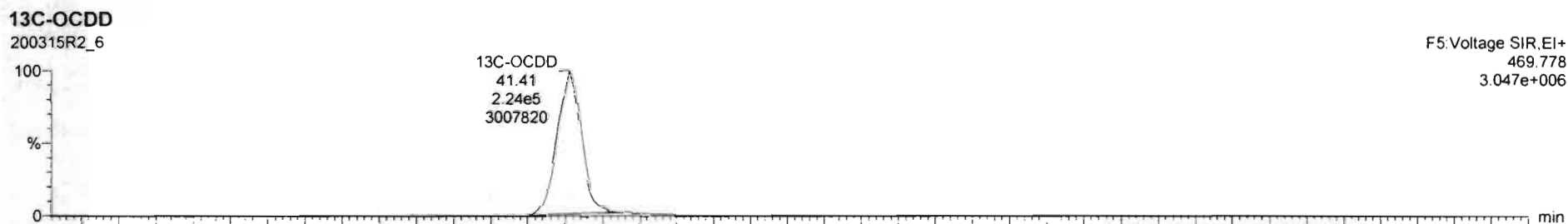
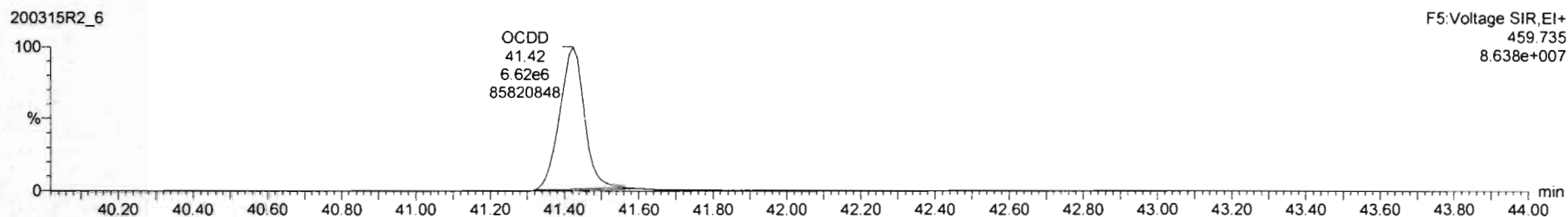
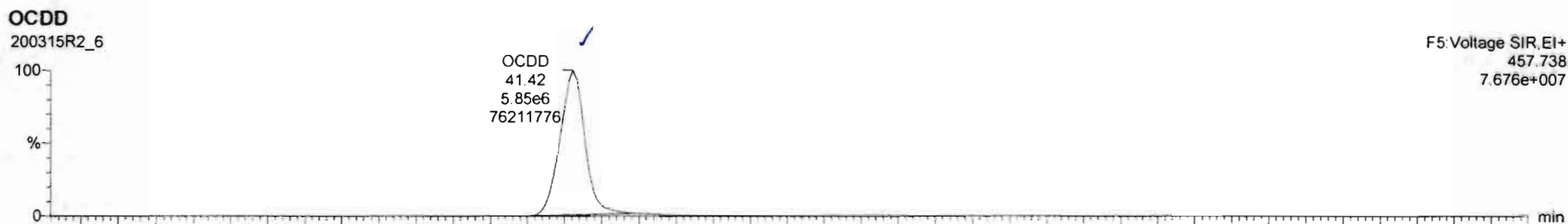


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2.328e+006

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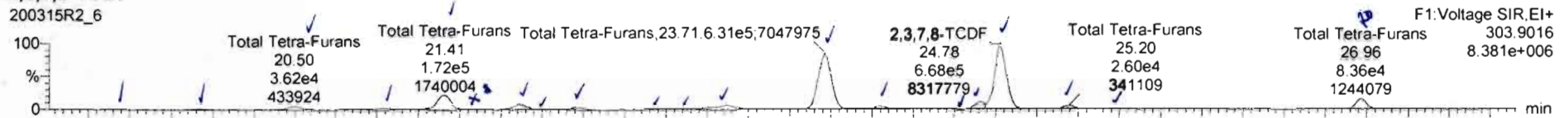
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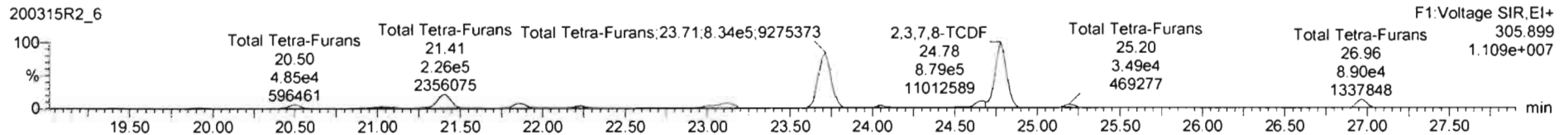
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2,3,7,8-TCDF

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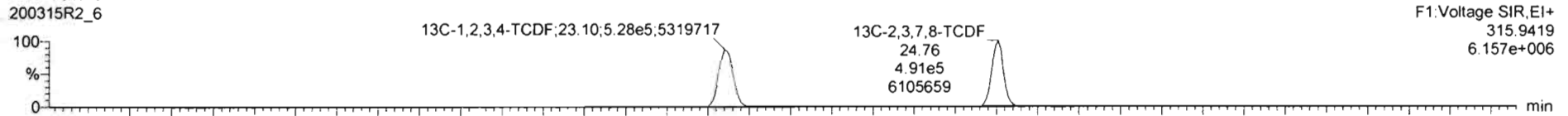


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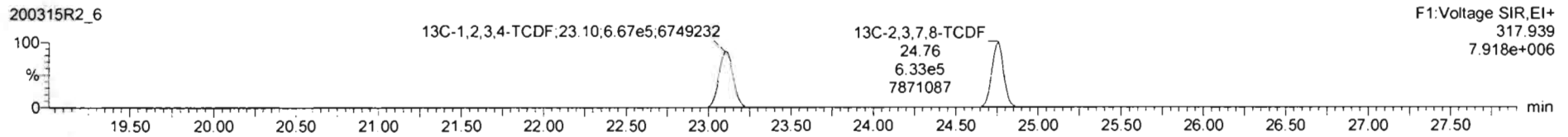


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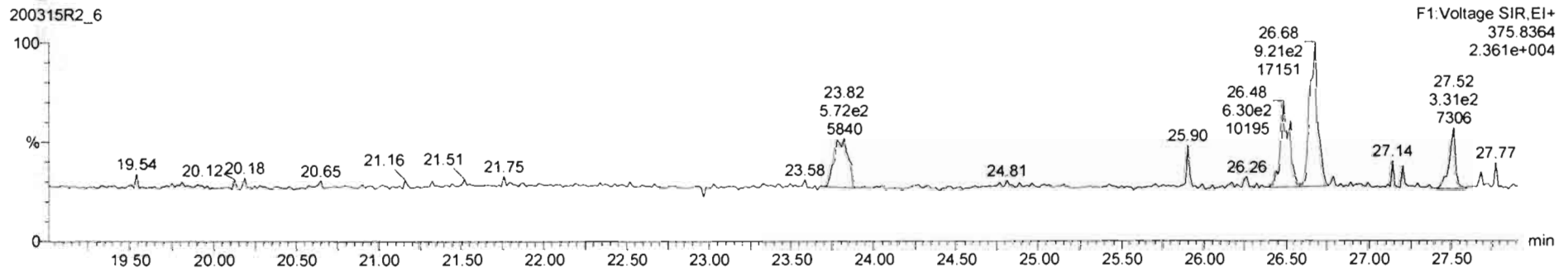


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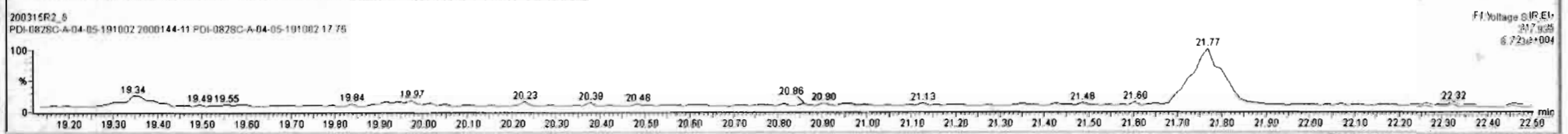
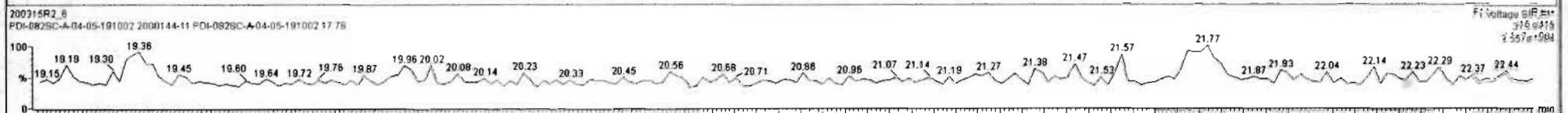
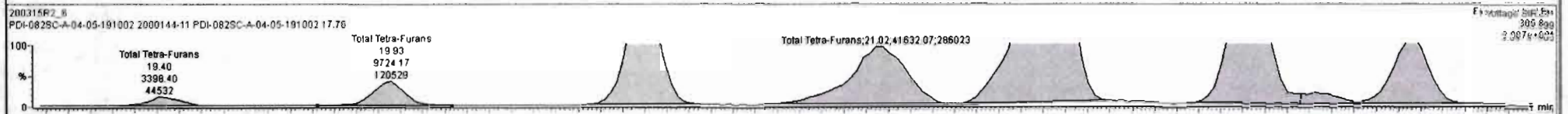
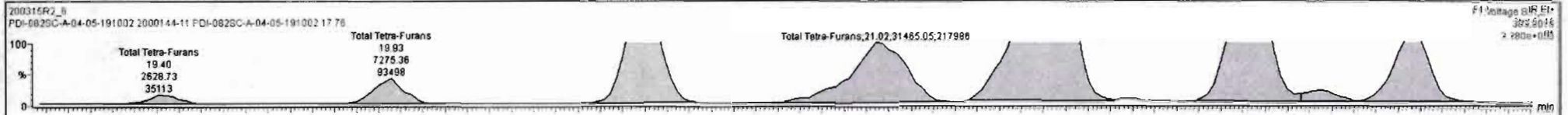
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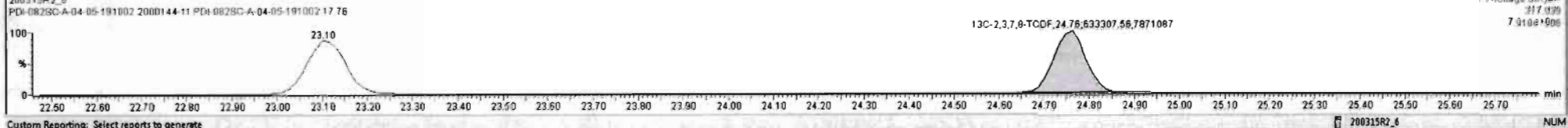
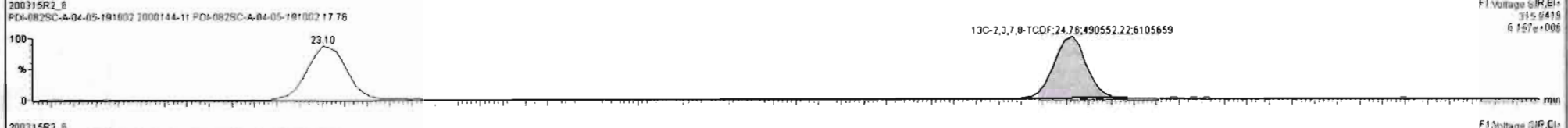
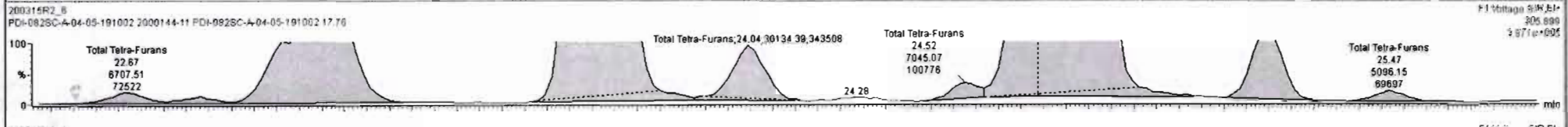
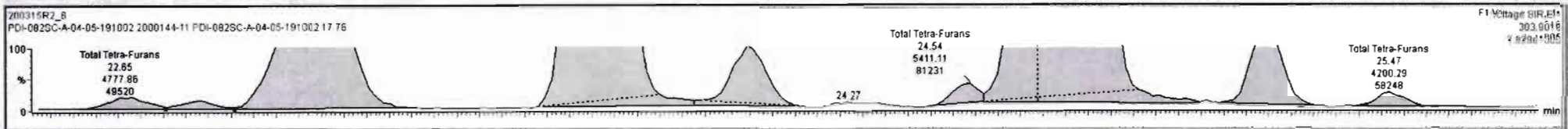
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40 Total Penta-Dioxins				0.92	10.004			39.5		0.150	39.5
41 Total Hexa-Dioxins				0.98	10.004			203		0.415	203
42 Total Hepta-Dioxins				1.01	10.004			1640		1.42	1640
43 Total Tetra-Furans				0.92	10.004			826		0.230	858

Name	RT	m1 Resp	m2 Resp	1* Ratio (P)	RA	n/y	EMPC	Conc
1 Total Tetra-Furans	19.40	2.629e3	3.398e3	0.770	0.77	NO	1.1712	1.1712
2 Total Tetra-Furans	19.93	7.275e3	9.724e3	0.770	0.75	NO	3.3034	3.3034
3 Total Tetra-Furans	20.50	3.624e4	4.849e4	0.770	0.75	NO	16.484	16.484
4 Total Tetra-Furans	21.02	3.147e4	4.163e4	0.770	0.76	NO	14.205	14.205
5 Total Tetra-Furans	21.41	1.717e5	2.264e5	0.770	0.78	NO	77.358	77.358
6 Total Tetra-Furans	21.86	5.616e4	7.405e4	0.770	0.76	NO	25.306	25.306
7 Total Tetra-Furans	22.02	3.353e3	4.590e3	0.770	0.73	NO	1.5417	1.5417
8 Total Tetra-Furans	22.23	2.320e4	3.037e4	0.770	0.78	NO	10.409	10.409
9 Total Tetra-Furans	22.85	4.770e3	6.708e3	0.770	0.71	NO	2.2319	2.2319
10 Total Tetra-Furans	22.83	2.645e3	3.343e3	0.770	0.79	NO	1.1638	1.1638



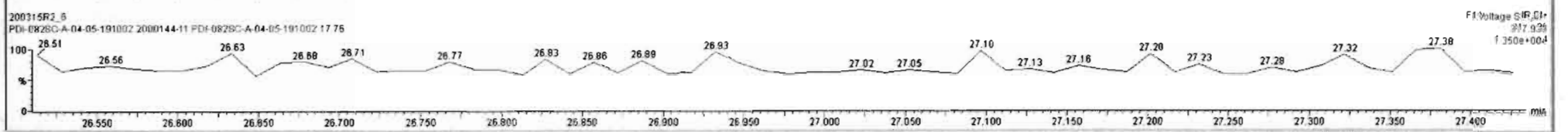
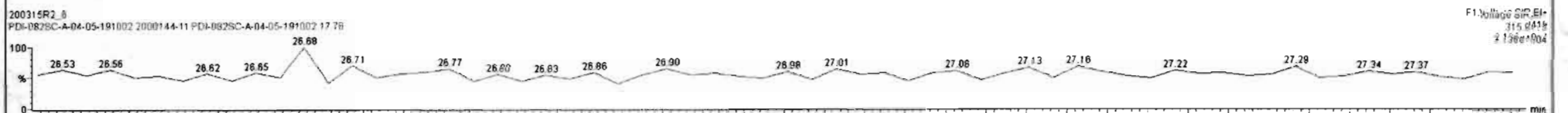
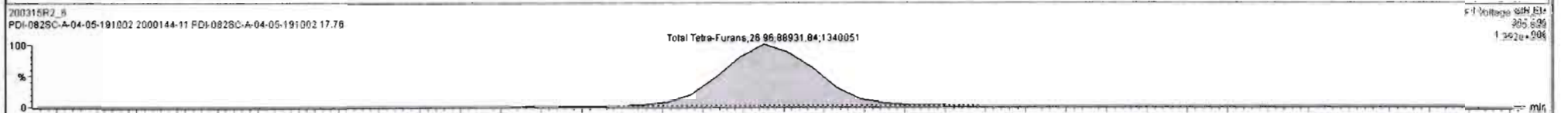
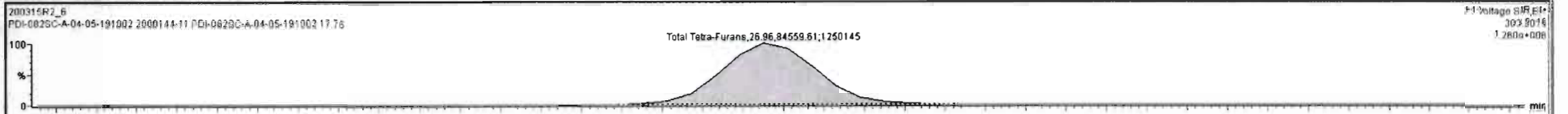
#	Name	Resp	RA	n/y	RRF	Method	RT	RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.98	10.004			28.1		0.108	28.2
40	Total Penta-Dioxins				0.92	10.004			39.5		0.150	39.5
41	Total Hexa-Dioxins				0.98	10.004			203		0.415	203
42	Total Hepta-Dioxins				1.01	10.004			1640		1.42	1640
43	Total Tetra-Furans				0.92	10.004			937		0.230	969

#	Name	RT	m1 Resp	m2 Resp	** Ratio (P)	RA	n/y	EMPC	Conc.
14	Total Tetra-Furans	24.54	5.411e3	7.045e3	0.770	0.77	NO	2.4206	2.4206
15	Total Tetra-Furans	24.86	5.481e4	7.259e4	0.770	0.76	NO	24.755	24.755
16	2,3,7,8-TCDF	24.78	6.794e5	8.898e5	0.770	0.76	NO	304.90	304.90
17	Total Tetra-Furans	25.20	2.598e4	3.494e4	0.770	0.74	NO	11.838	11.838
18	Total Tetra-Furans	25.47	4.200e3	5.098e3	0.770	0.82	NO	1.8085	1.8085
19	Total Tetra-Furans	26.35	8.860e2	4.481e2	0.770	2.00	YES	0.15413	0.00000
20	Total Tetra-Furans	26.51	7.918e2	8.789e2	0.770	0.90	YES	0.30161	0.00000
21	Total Tetra-Furans	26.89	1.245e3	1.008e3	0.770	1.24	YES	0.34588	0.00000
22	Total Tetra-Furans	26.98	8.983e4	8.898e4	0.770	0.94	YES	30.605	0.00000



Name	Resp	RA	n/y	RRF	wt%ol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.98	10.004			28.1	0.108	28.2	
40 Total Penta-Dioxins				0.92	10.004			39.5	0.150	39.5	
41 Total Hexa-Dioxins				0.98	10.004			203	0.415	203	
42 Total Hepta-Dioxins				1.01	10.004			1640	1.42	1640	
43 Total Tetra-Furans				0.92	10.004			837	0.230	868	

Name	RT	m1 Resp	m2 Resp	1* Ratio (P)	RA	n/y	EMPC	Conc.
11 Total Tetra-Furans	23.12	8.582e4	1.181e5	0.770	0.74	NO	39.239	39.239
12 Total Tetra-Furans	23.71	6.390e5	8.470e5	0.770	0.75	NO	288.78	288.78
13 Total Tetra-Furans	24.04	2.260e4	3.013e4	0.770	0.75	NO	10.248	10.248
14 Total Tetra-Furans	24.54	5.411e3	7.045e3	0.770	0.77	NO	2.4206	2.4206
15 Total Tetra-Furans	24.88	5.481e4	7.259e4	0.770	0.76	NO	24.755	24.755
16 2,3,7,8-TCDF	24.78	6.794e5	8.896e5	0.770	0.76	NO	304.90	304.90
17 Total Tetra-Furans	25.20	2.588e4	3.484e4	0.770	0.74	NO	11.838	11.838
18 Total Tetra-Furans	25.47	4.200e3	5.098e3	0.770	0.82	NO	1.8065	1.8065
19 Total Tetra-Furans	26.98	8.456e4	8.893e4	0.770	0.85	YES	30.589	0.00000



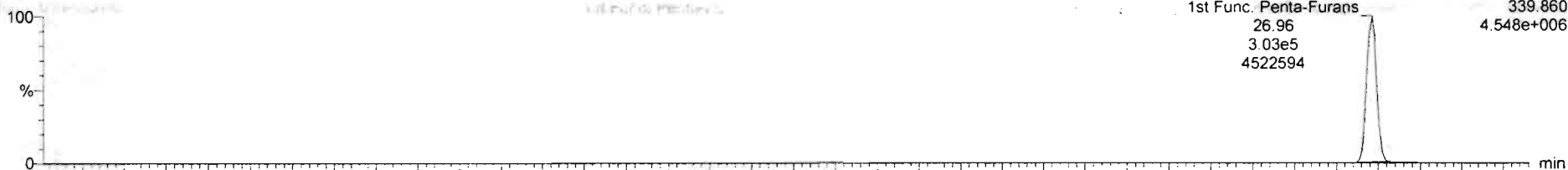
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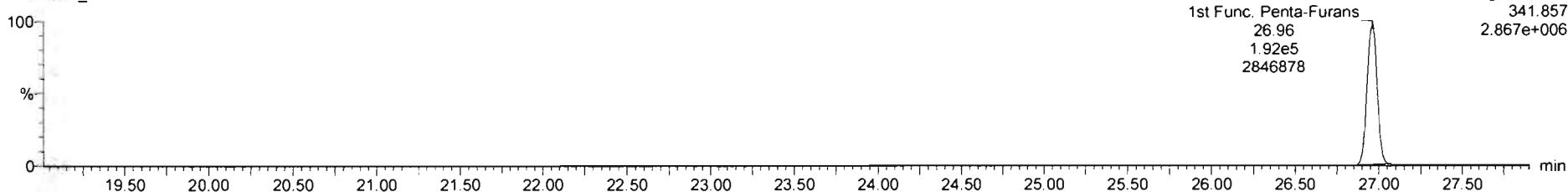
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1st Func. Penta-Furans

200315R2_6

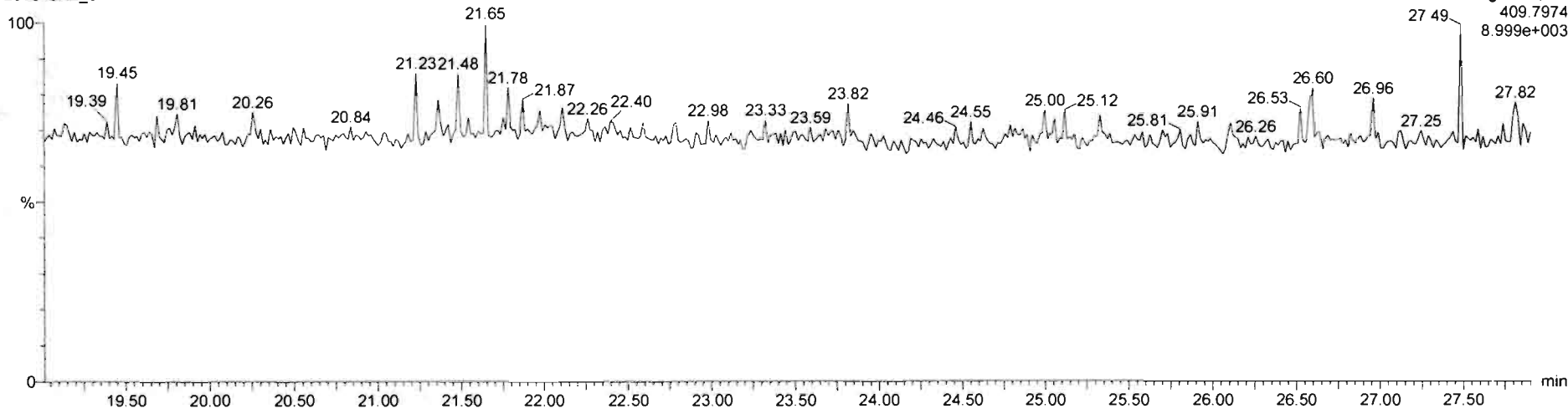


200315R2_6



DPE6

200315R2_6



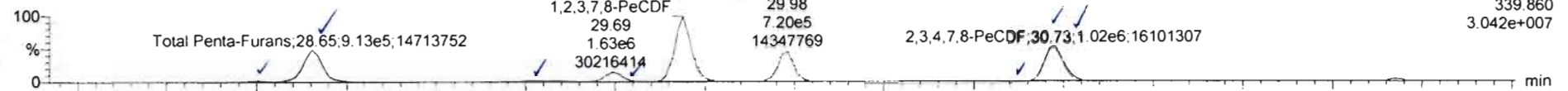
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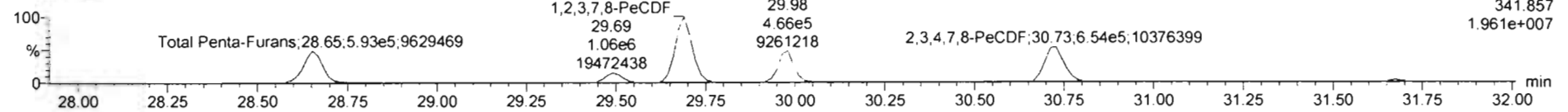
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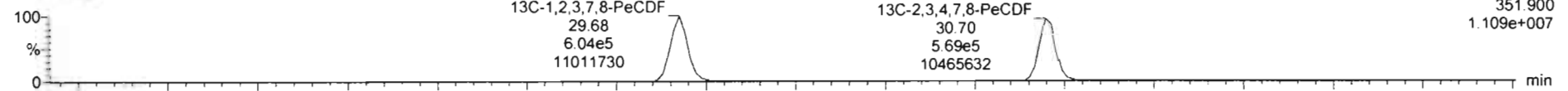


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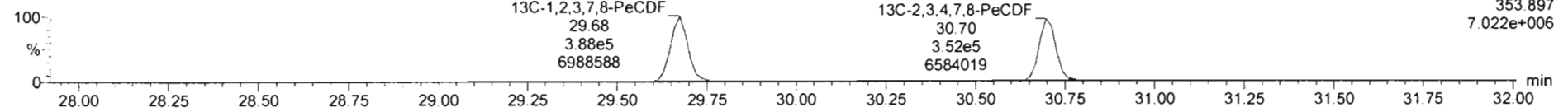


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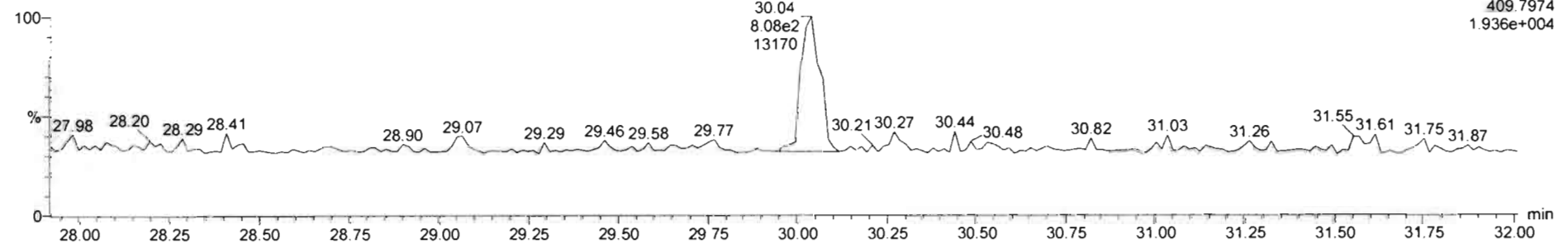


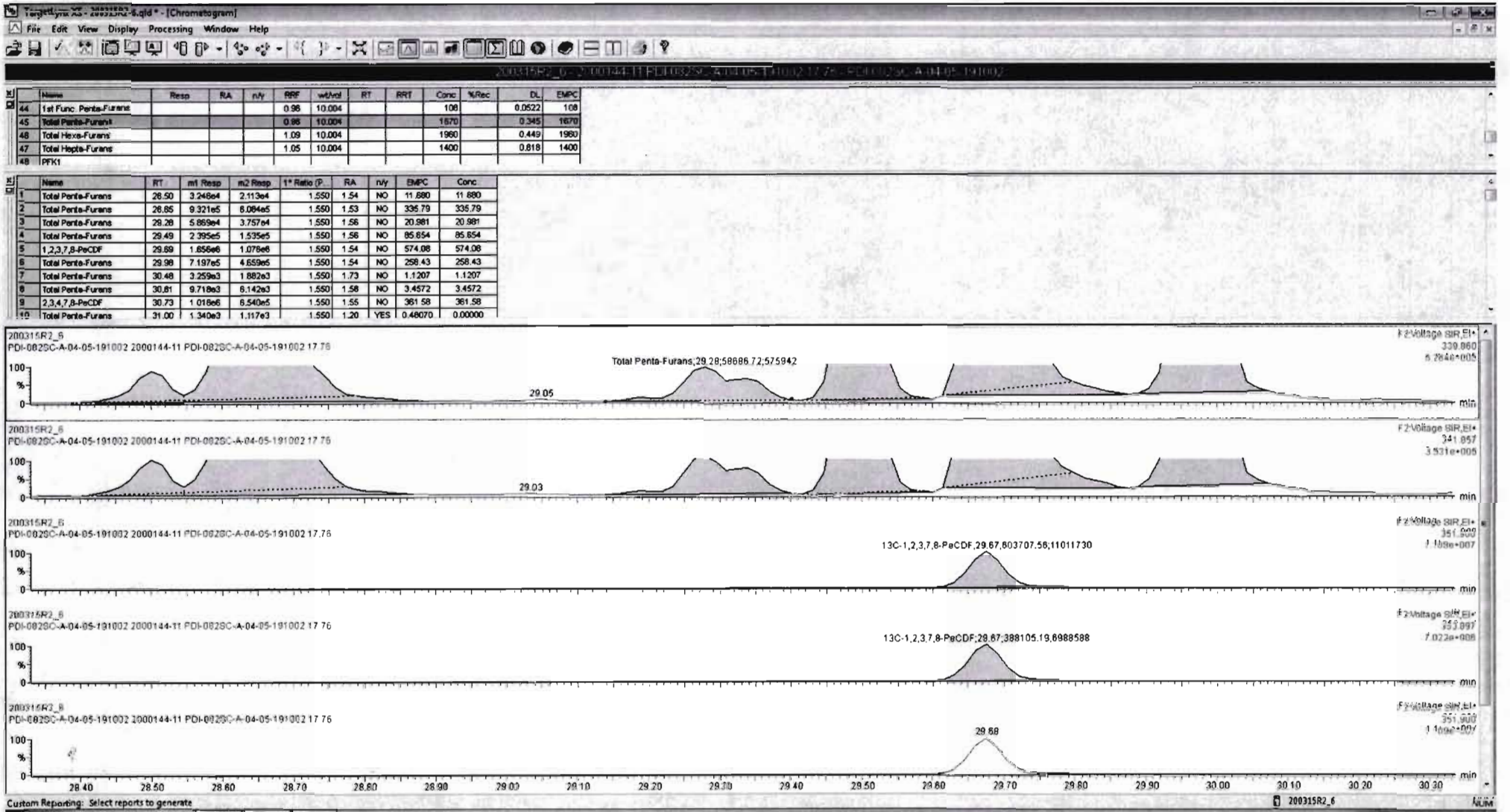
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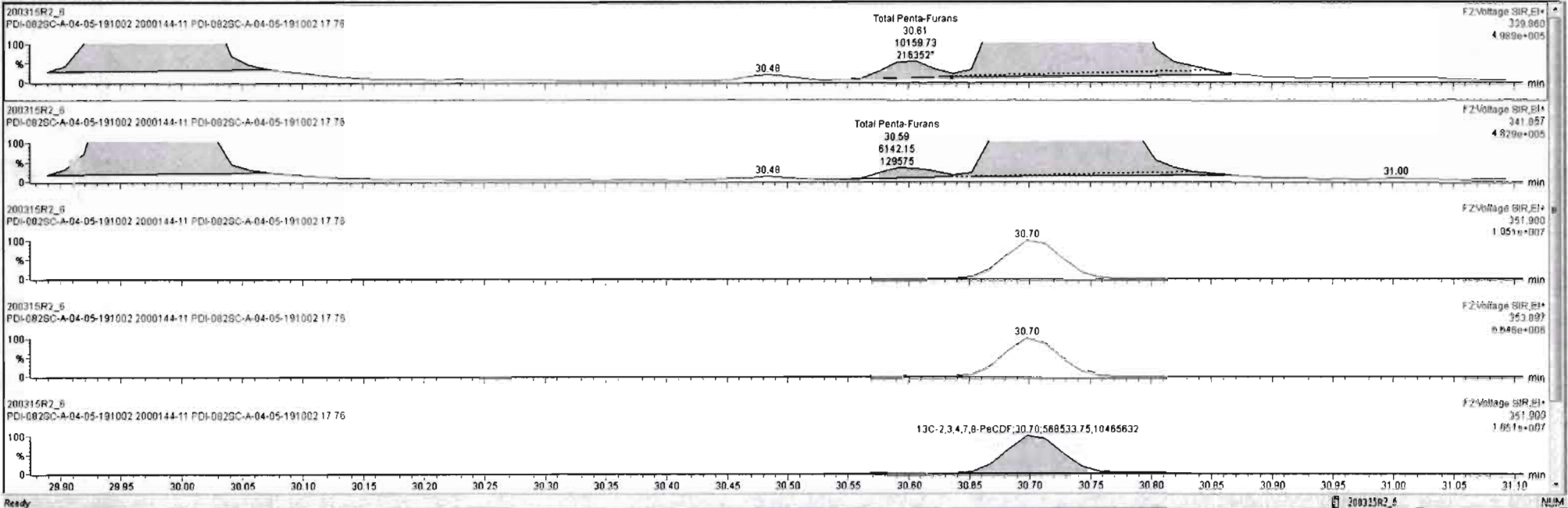
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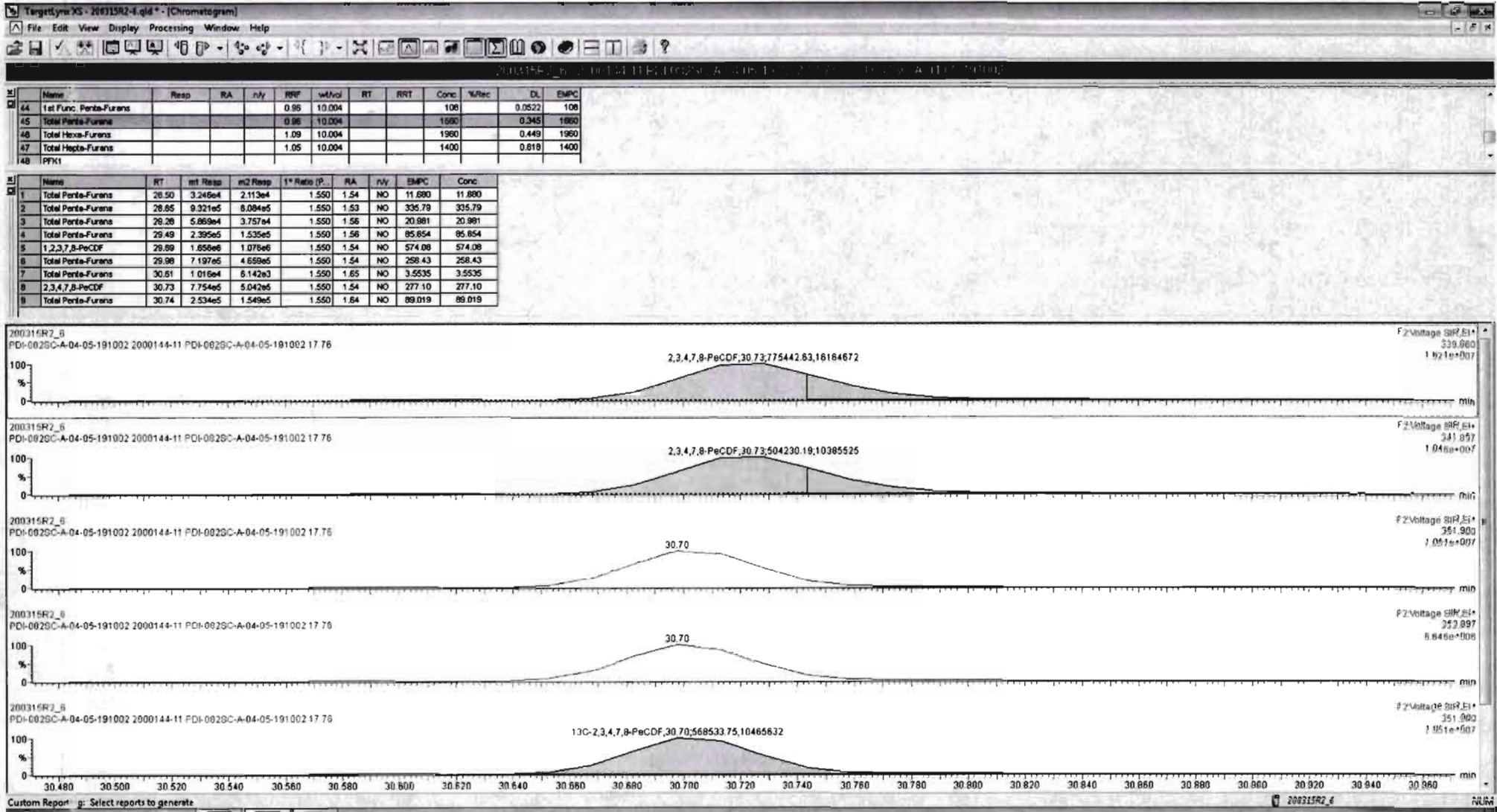




Name	Resp	RA	n/y	RRF	intVol	RT	RRT	Conc	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.98	10.004			108		0.0522	108
45 Total Penta-Furans				0.98	10.004			1550		0.345	1650
46 Total Hexa-Furans				1.09	10.004			1980		0.449	1980
47 Total Hepta-Furans				1.05	10.004			1400		0.818	1400
48 PFK1											

Name	RT	m1 Resp	m2 Resp	1* Ratio (P)	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.50	3.248e4	2.113e4	1.550	1.54	NO	11.880	11.880
2 Total Penta-Furans	28.85	9.321e5	6.084e5	1.550	1.53	NO	335.79	335.79
3 Total Penta-Furans	29.26	5.869e4	3.757e4	1.550	1.56	NO	20.881	20.981
4 Total Penta-Furans	29.49	2.395e5	1.535e5	1.550	1.56	NO	85.654	85.654
5 1,2,3,7,8-PeCDF	29.89	1.858e8	1.078e6	1.550	1.54	NO	574.08	574.08
6 Total Penta-Furans	29.98	7.197e5	4.659e5	1.550	1.54	NO	258.43	258.43
7 Total Penta-Furans	30.61	9.718e3	6.142e3	1.550	1.58	NO	3.4572	3.4572
8 2,3,4,7,8-PeCDF	30.73	1.023e6	6.591e5	1.550	1.55	NO	364.30	364.30



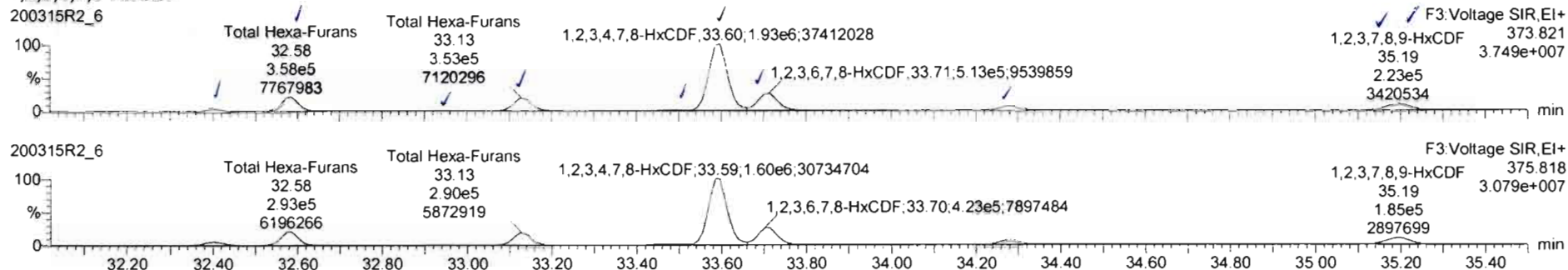


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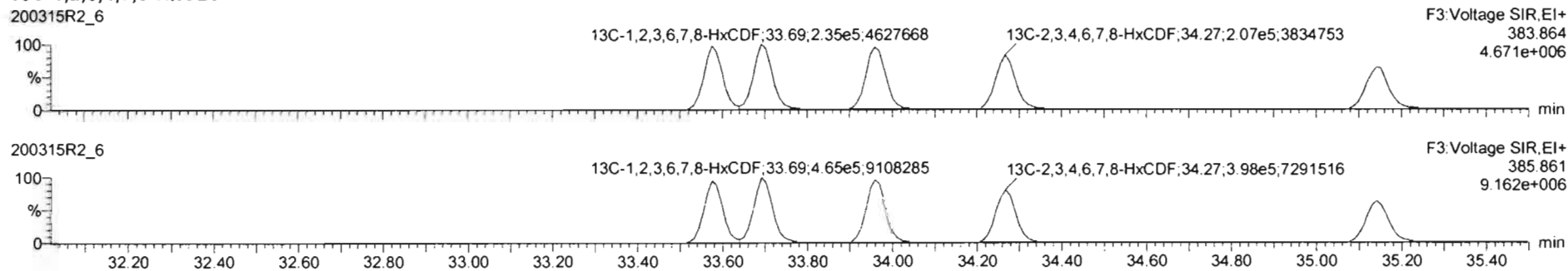
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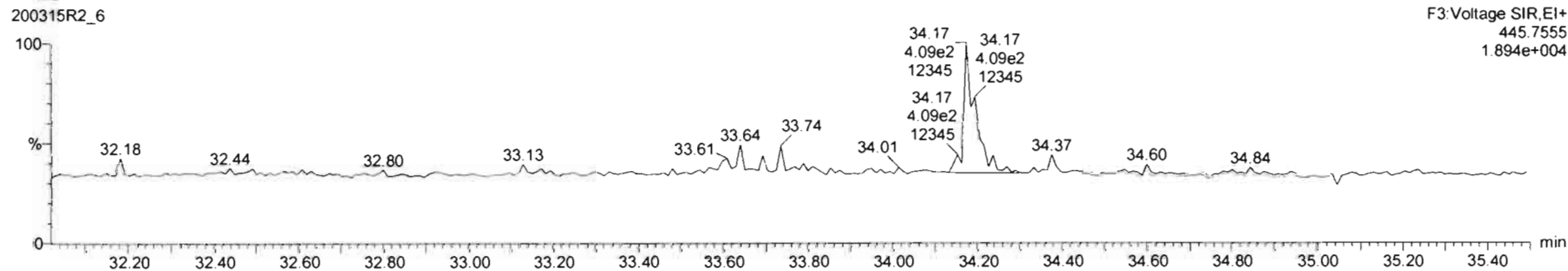
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13C-1,2,3,4,7,8-HxCDF



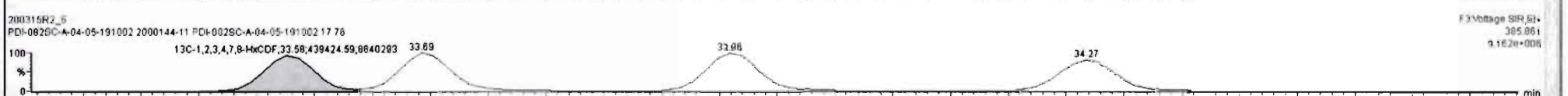
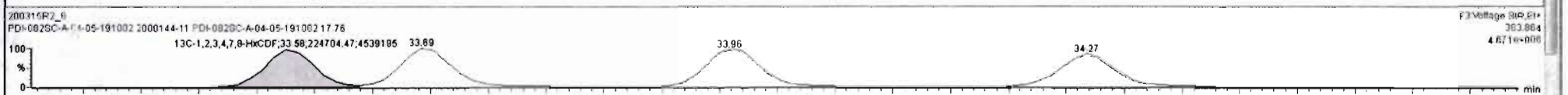
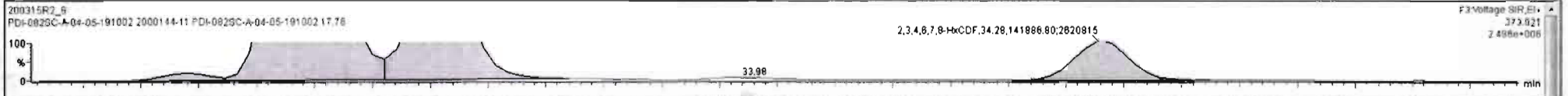
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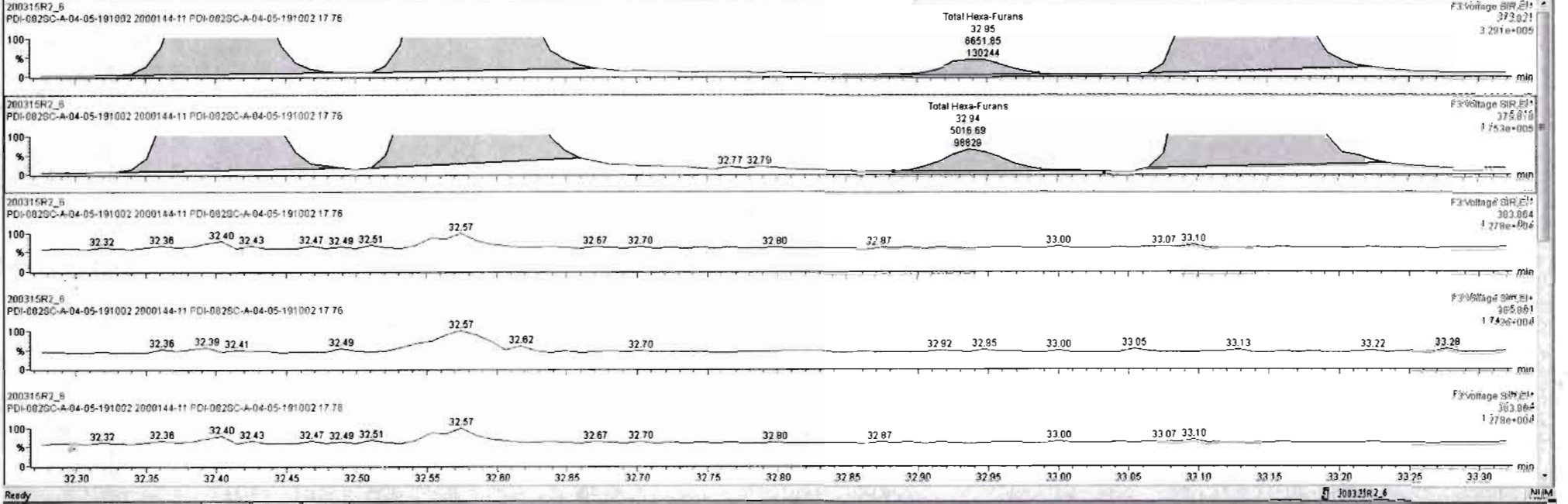
#	Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
44	1st Func. Penta-Furans				0.96	10.004			106		0.0522	106
45	Total Penta-Furans				0.96	10.004			1660		0.345	1660
46	Total Hexa-Furans				1.09	10.004			1940		0.443	1940
47	Total Hepta-Furans				1.05	10.004			1400		0.818	1400
48	IPFK1											

#	Name	RT	m1 Resp	m2 Resp	1 st Ratio (P)	RA	n/y	EMPC	Conc
1	Total Hexa-Furans	32.40	9.679e4	7.946e4	1.240	1.22	NO	51.560	51.560
2	Total Hexa-Furans	32.58	3.578e5	2.829e5	1.240	1.22	NO	190.28	190.28
3	Total Hexa-Furans	32.96	6.652e3	5.017e3	1.240	1.33	NO	3.4136	3.4136
4	Total Hexa-Furans	33.13	3.529e5	2.898e5	1.240	1.22	NO	188.02	188.02
5	Total Hexa-Furans	33.49	2.275e4	1.754e4	1.240	1.30	NO	11.788	11.788
6	1,2,3,4,7,8-HxCDF	33.60	1.930e5	1.585e6	1.240	1.21	NO	1022.3	1022.3
7	1,2,3,6,7,8-HxCDF	33.71	5.129e5	4.229e5	1.240	1.21	NO	263.99	263.99
8	2,3,4,6,7,8-HxCDF	34.28	1.419e5	1.155e6	1.240	1.23	NO	77.944	77.944
9	1,2,3,7,8,9-HxCDF	35.18	7.690e4	6.641e4	1.240	1.16	NO	52.179	52.179
10	Total Hexa-Furans	35.19	1.456e5	1.177e5	1.240	1.24	NO	77.031	77.031



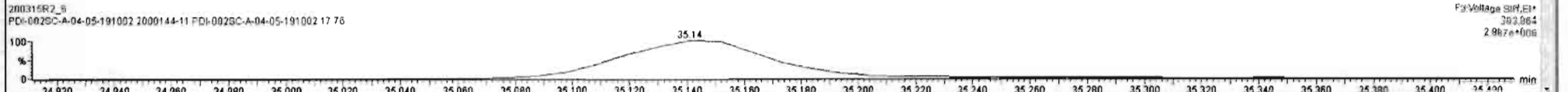
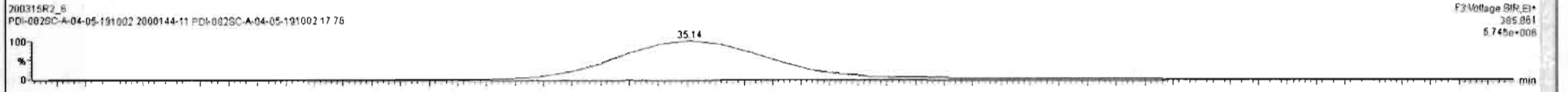
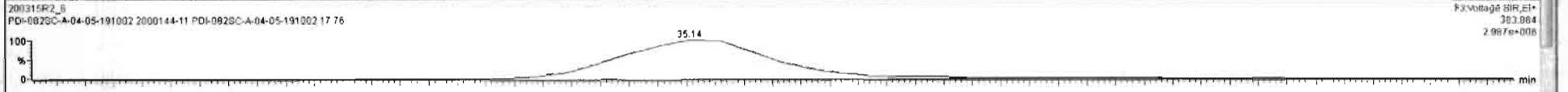
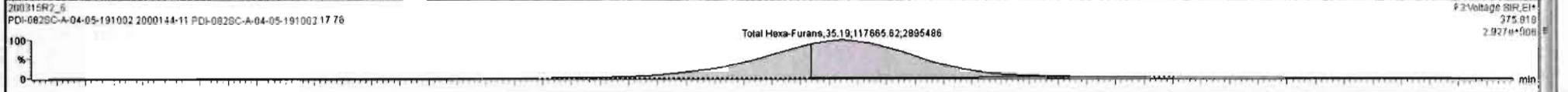
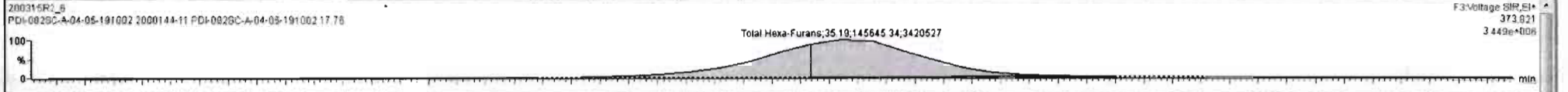
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.96	10.004			106		0.0522	106
45 Total Penta-Furans				0.96	10.004			1690		0.345	1660
46 Total Hexa-Furans				1.09	10.004			1940		0.449	1940
47 Total Hepta-Furans				1.05	10.004			1400		0.819	1400
48 PFY1											

Name	RT	m1 Resp	m2 Resp	1* Ratio (P)	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.40	9.679e4	7.946e4	1.240	1.22	NO	51.580	51.580
2 Total Hexa-Furans	32.58	3.578e5	2.929e5	1.240	1.22	NO	190.28	190.28
3 Total Hexa-Furans	32.95	6.652e3	5.017e3	1.240	1.33	NO	3.4136	3.4136
4 Total Hexa-Furans	33.13	3.529e5	2.898e5	1.240	1.22	NO	186.02	186.02
5 Total Hexa-Furans	33.49	2.275e4	1.754e4	1.240	1.30	NO	11.788	11.788
6 1,2,3,4,7,8-HxCDF	33.80	1.830e6	1.585e6	1.240	1.21	NO	1022.3	1022.3
7 1,2,3,6,7,8-HxCDF	33.71	5.126e5	4.229e5	1.240	1.21	NO	263.99	263.99
8 2,3,4,6,7,8-HxCDF	34.28	1.419e5	1.155e5	1.240	1.23	NO	77.944	77.944
9 1,2,3,7,8,9-HxCDF	35.18	7.890e4	6.841e4	1.240	1.18	NO	52.179	52.179
10 Total Hexa-Furans	35.19	1.458e5	1.177e5	1.240	1.24	NO	77.031	77.031



#	Name	Resp	RA	n/y	RRF	wt%oi	RT	RRT	Conc	%Rec	DL	EMPC
44	1st Func. Penta-Furans				0.96	10.004			108		0.0522	108
45	Total Penta-Furans				0.96	10.004			1680		0.345	1680
46	Total Hexa-Furans				1.05	10.004			1940		0.449	1940
47	Total Hepta-Furans								1400		0.818	1400
48	PFM1											

#	Name	RT	m1 Resp	m2 Resp	1* Ratio (P)	RA	n/y	EMPC	Conc
1	Total Hexa-Furans	32.40	9.679e4	7.948e4	1.240	1.22	NO	51.580	51.580
2	Total Hexa-Furans	32.58	3.578e5	2.929e5	1.240	1.22	NO	190.28	190.28
3	Total Hexa-Furans	32.95	6.652e3	5.017e3	1.240	1.33	NO	3.4136	3.4136
4	Total Hexa-Furans	33.13	3.529e5	2.898e5	1.240	1.22	NO	188.02	188.02
5	Total Hexa-Furans	33.49	2.275e4	1.754e4	1.240	1.30	NO	11.788	11.788
6	1,2,3,4,7,8-HxCDF	33.60	1.930e6	1.595e6	1.240	1.21	NO	1022.3	1022.3
7	1,2,3,6,7,8-HxCDF	33.71	5.126e5	4.228e5	1.240	1.21	NO	263.99	263.99
8	Total Hexa-Furans	33.98	8.557e3	6.897e3	1.240	1.22	NO	4.5502	4.5502
9	Total Hexa-Furans	34.09	1.511e3	1.082e3	1.240	1.40	NO	0.75858	0.75858
10	2,3,4,6,8-HxCDF	34.26	1.419e5	1.155e5	1.240	1.23	NO	77.944	77.944



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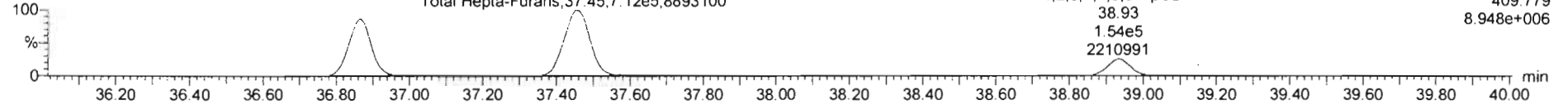
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1,2,3,4,6,7,8-HpCDF

200315R2_6

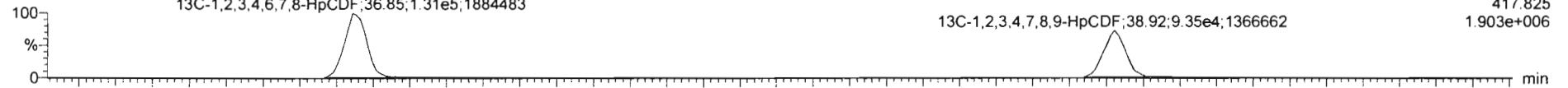


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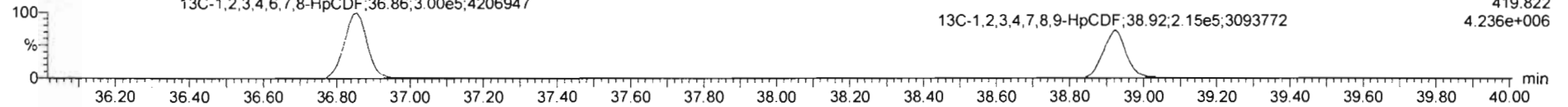


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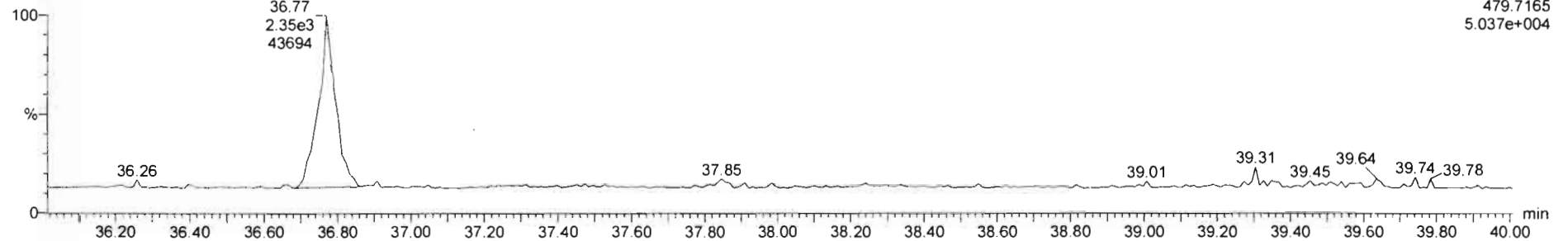


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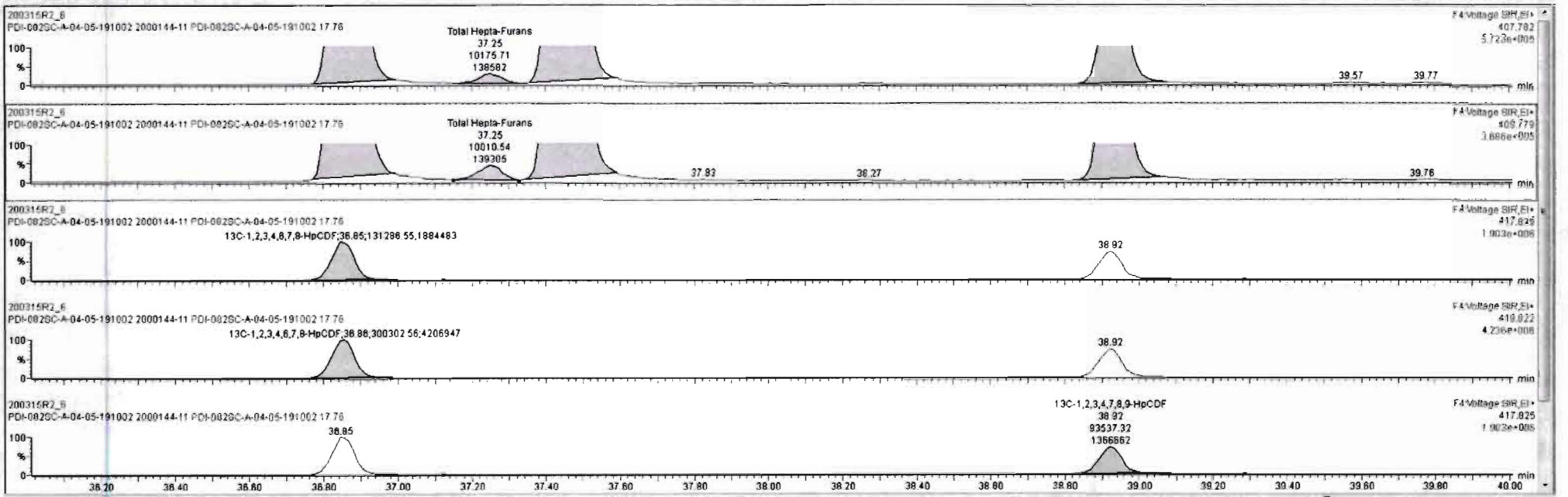
DPE4

200315R2_6



Name	Resp	RA	n/y	RRF	w/Vol	RT	RRT	Conc	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.96	10.004			108		0.0522	108
45 Total Penta-Furans				0.96	10.004			1660		0.345	1660
46 Total Hexa-Furans				1.09	10.004			1940		0.449	1940
47 Total Hepta-Furans				1.05	10.004			1400		0.818	1400
48 PFX1											

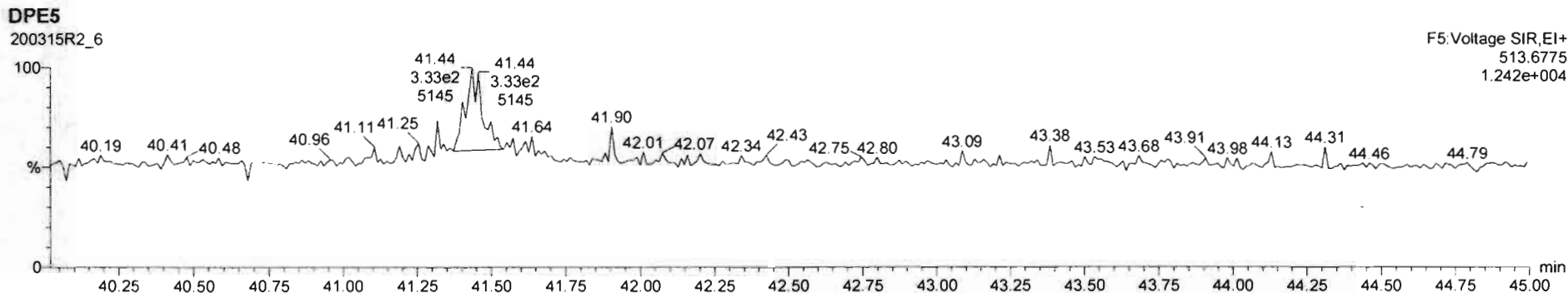
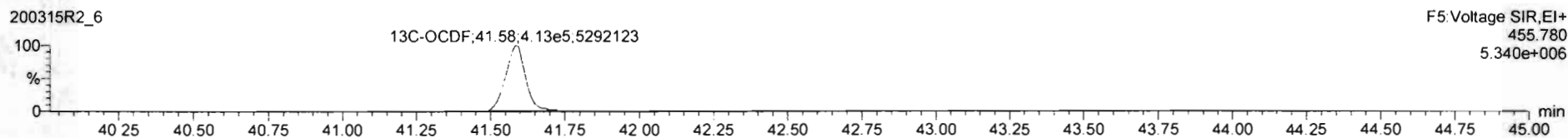
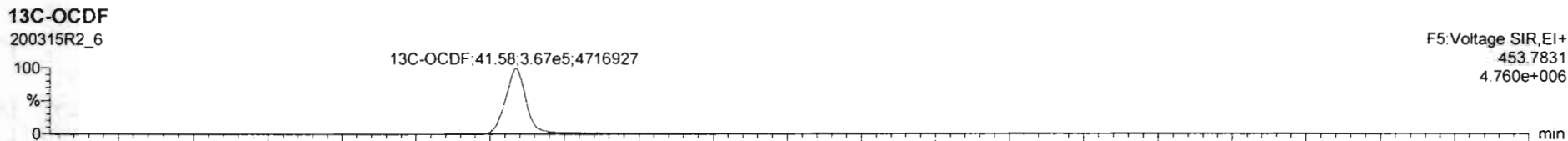
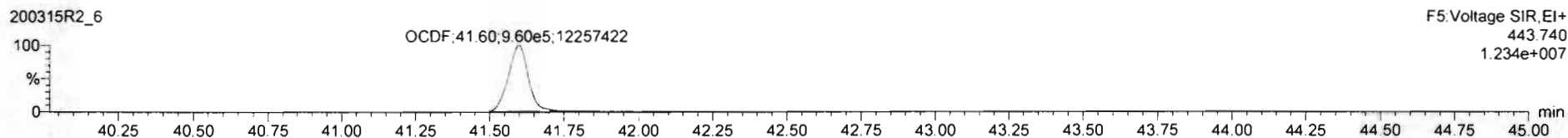
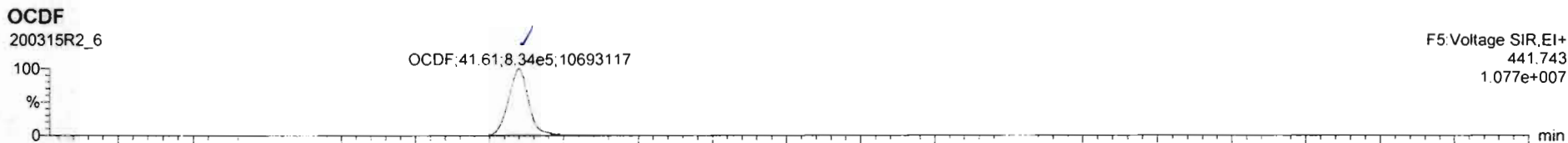
Name	RT	Int Resp	m2 Resp	1st Ratio (P)	RA	n/y	EMPC	Conc
1 1,2,3,4,6,7,8-HpCDF	36.87	5.510e5	5.406e5	1.040	1.02	NO	482.36	482.36
2 Total Hepta-Furans	37.25	1.018e4	1.001e4	1.040	1.02	NO	10.492	10.402
3 Total Hepta-Furans	37.45	7.161e5	7.117e5	1.040	1.01	NO	735.71	735.71
4 1,2,3,4,7,8,9-HpCDF	38.93	1.568e5	1.544e5	1.040	1.01	NO	166.81	166.81



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

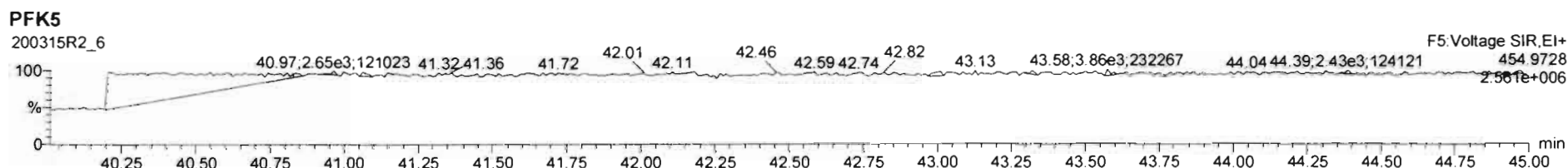
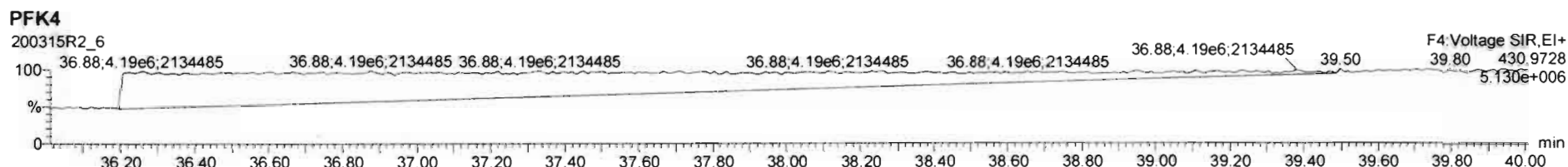
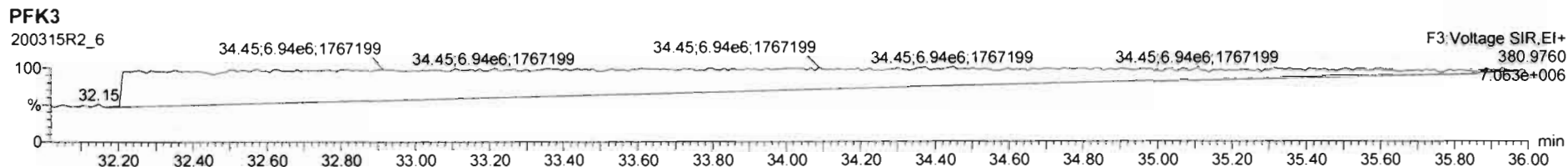
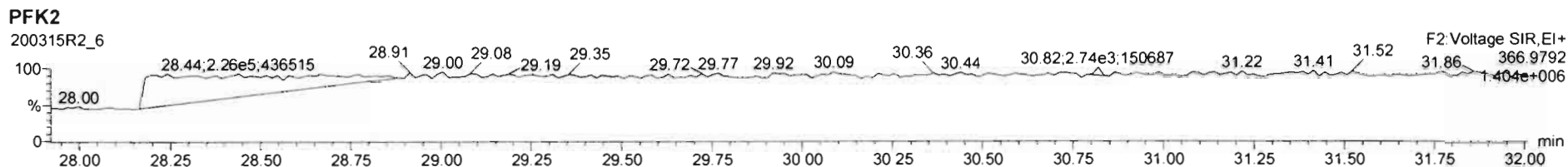
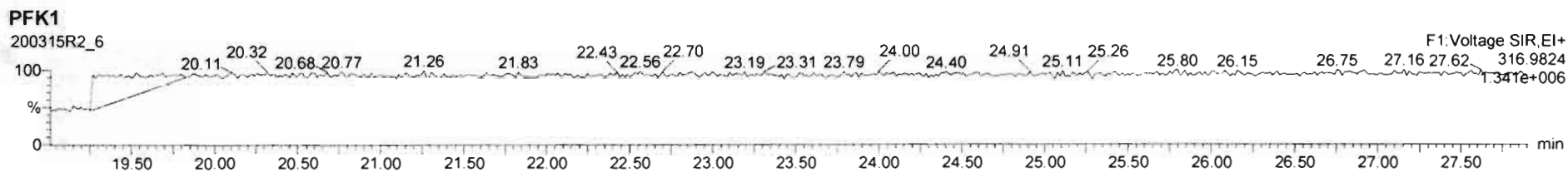
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Dataset: Untitled

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_6, Date: 16-Mar-2020, Time: 03:57:33, ID: 2000144-11 PDI-082SC-A-04-05-191002 17.76, Description: PDI-082SC-A-04-05-191002



Dataset: U:\VG12.PRO\Results\200317R1\200317R1-16C.qld

Last Altered: Thursday, March 26, 2020 10:40:40 Pacific Daylight Time

Printed: Thursday, March 26, 2020 10:42:01 Pacific Daylight Time

GPB 03/26/2020

C7 03/26/2020

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: 200317R1_16, Date: 18-Mar-2020, Time: 00:59:23, ID: 2000144-11@2X PDI-082SC-A-04-05-191002 17.76, Description: PDI-082SC-A-04-05-191002

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	7 OCDD	4.89e6	0.89	NO	1.05	10.004	41.307 ✓	41.32	1.000	1.000	9991.6		2.31	9990
2	24 13C-OCDD	1.86e5	0.86	NO	0.571	10.004	41.419	41.31	1.219	1.216	183.56	45.9	0.601	
3	35 37Cl-2,3,7,8-TCDD	1.45e5			1.17	10.004	25.745	25.78	1.029	1.031	67.709	84.7	0.166	
4	36 13C-1,2,3,4-TCDD	3.65e5	0.79	NO	1.00	10.004	25.050	25.02	1.000	1.000	199.92	100	0.454	
5	37 13C-1,2,3,4-TCDF	5.38e5	0.79	NO	1.00	10.004	23.190	23.09	1.000	1.000	199.92	100	0.881	
6	38 13C-1,2,3,4,6,9-HxCDF	3.55e5	0.51	NO	1.00	10.004	33.880	33.97	1.000	1.000	199.92	100	0.749	

Dataset: Untitled

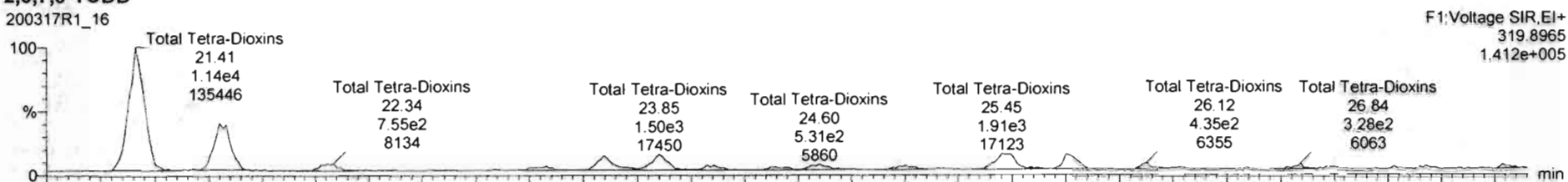
Last Altered: Thursday, March 26, 2020 10:40:40 Pacific Daylight Time
Printed: Thursday, March 26, 2020 10:41:00 Pacific Daylight Time

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

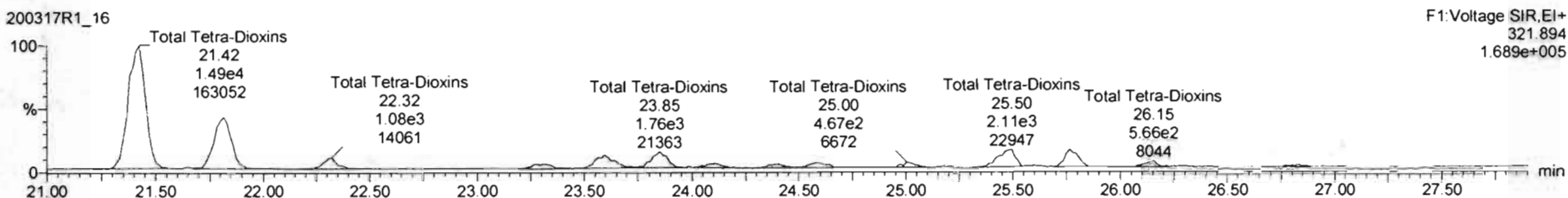
Name: 200317R1_16, Date: 18-Mar-2020, Time: 00:59:23, ID: 2000144-11@2X PDI-082SC-A-04-05-191002 17.76, Description: PDI-082SC-A-04-05-191002

2,3,7,8-TCDD

200317R1_16

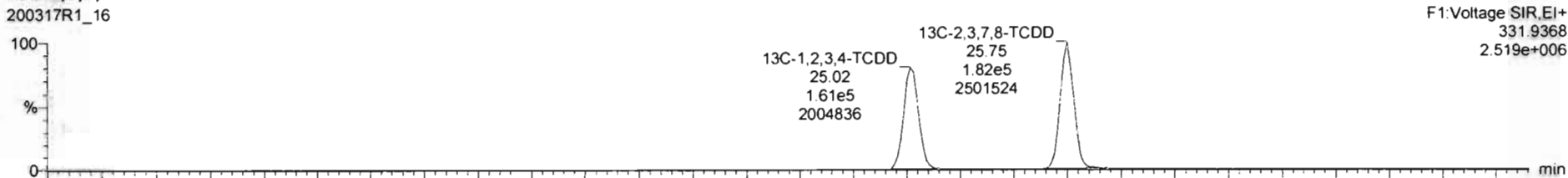


200317R1_16

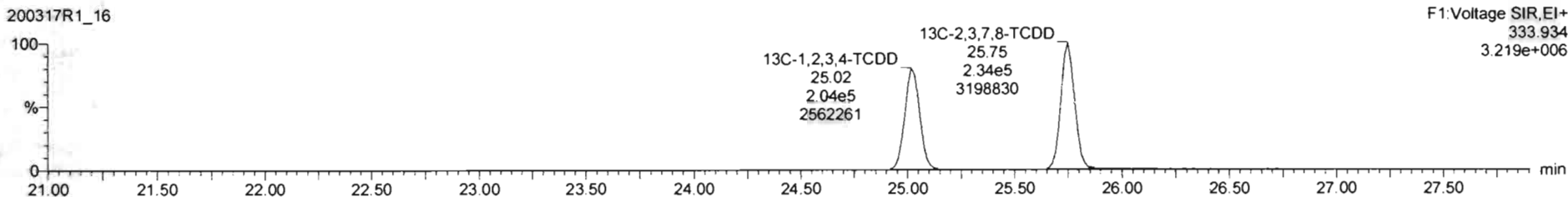


13C-2,3,7,8-TCDD

200317R1_16



200317R1_16



Dataset: Untitled

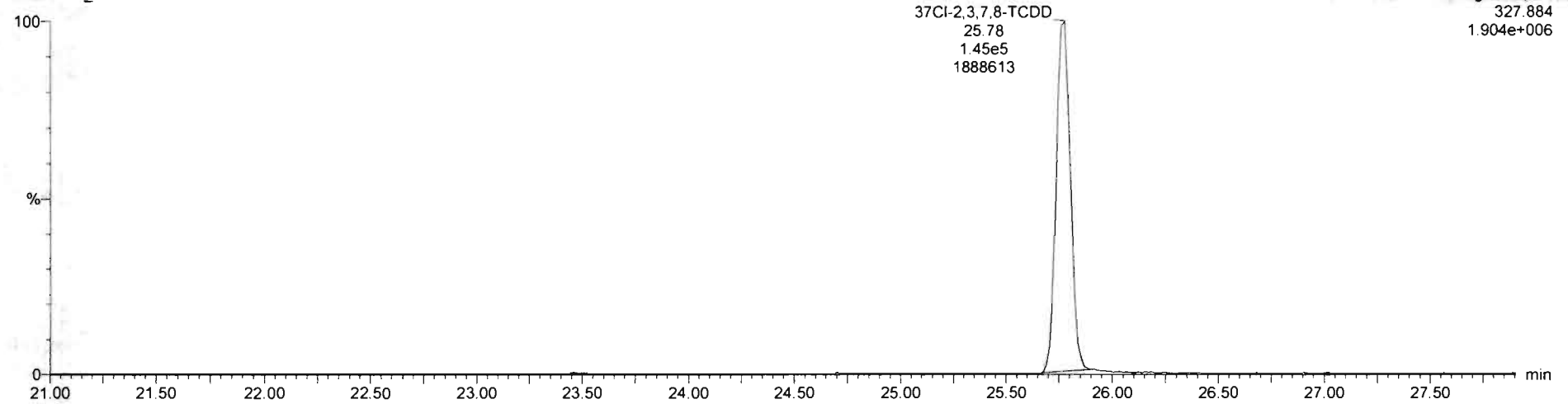
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Name: 200317R1_16, Date: 18-Mar-2020, Time: 00:59:23, ID: 2000144-11@2X PDI-082SC-A-04-05-191002 17.76, Description: PDI-082SC-A-04-05-191002

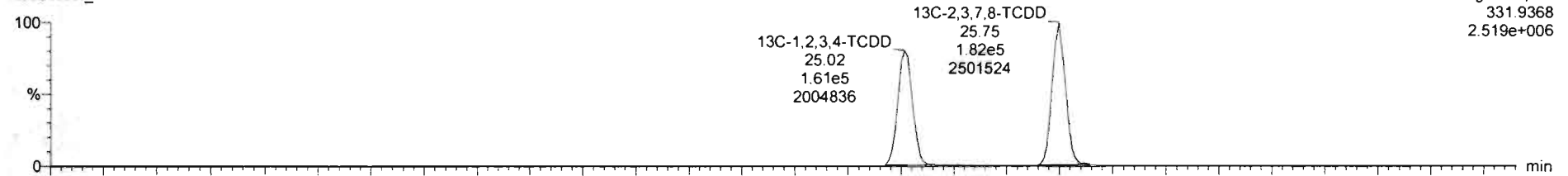
37Cl-2,3,7,8-TCDD

200317R1_16

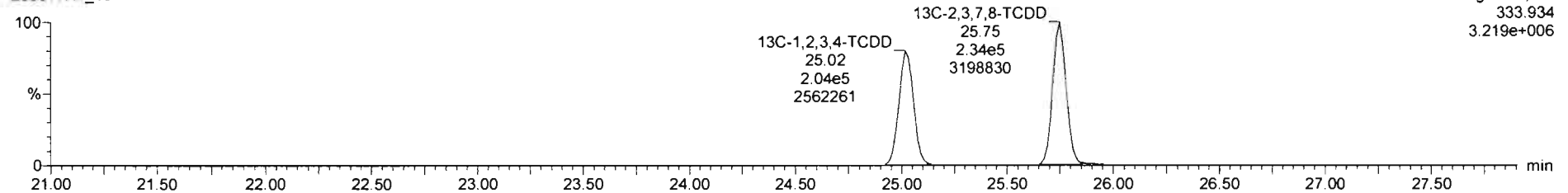


13C-1,2,3,4-TCDD

200317R1_16



200317R1_16



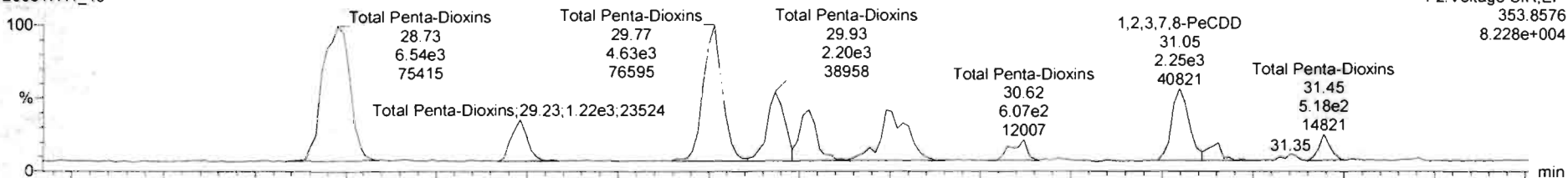
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Printed: Thursday, March 26, 2020 10:41:00 Pacific Daylight Time

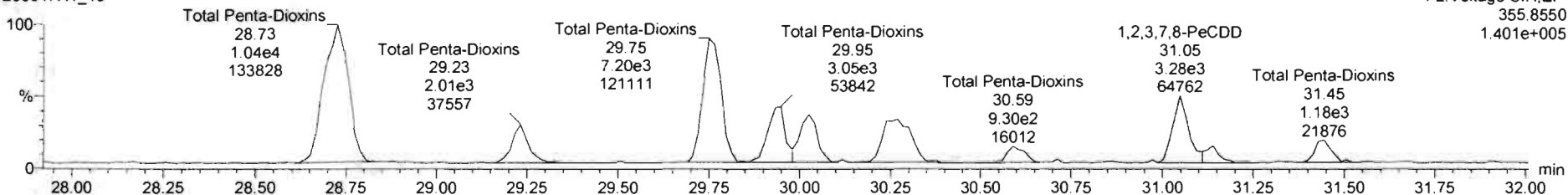
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1,2,3,7,8-PeCDD

200317R1_16

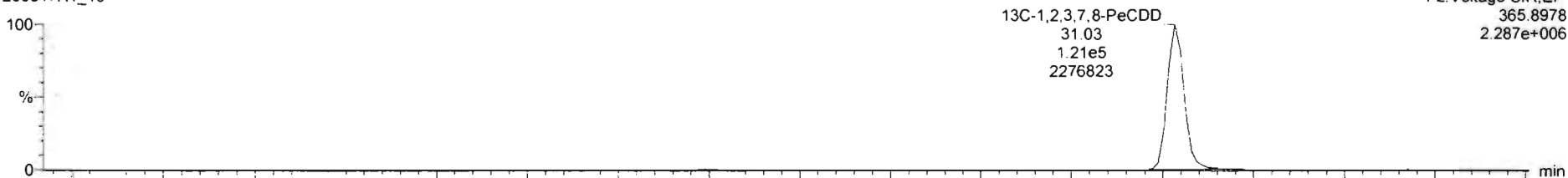


200317R1_16

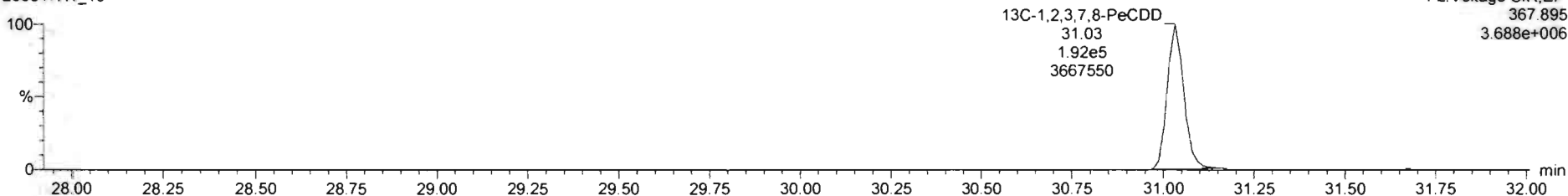


13C-1,2,3,7,8-PeCDD

200317R1_16



200317R1_16



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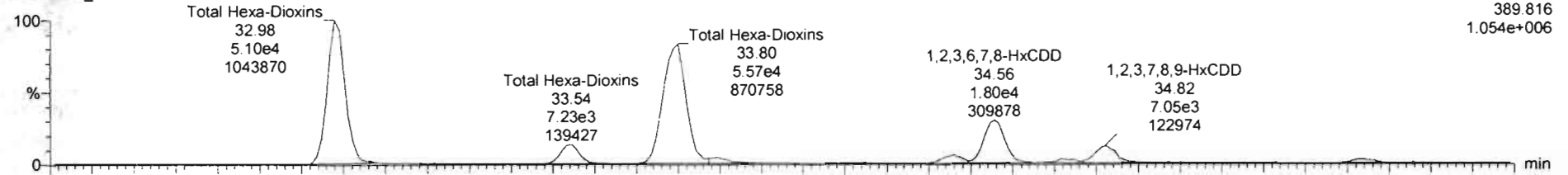
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Printed: Thursday, March 26, 2020 10:41:00 Pacific Daylight Time

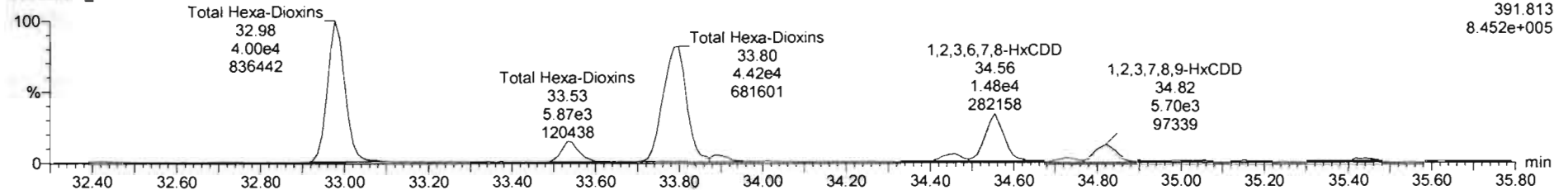
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1,2,3,4,7,8-HxCDD

200317R1_16

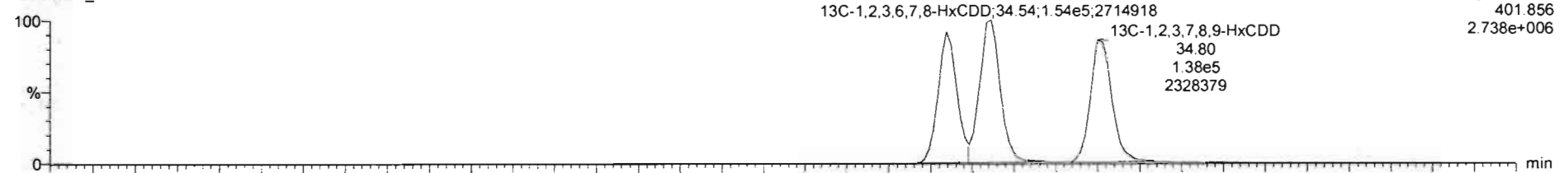


200317R1_16

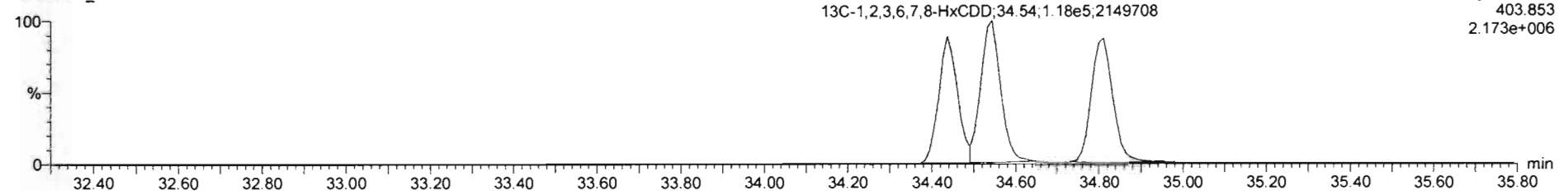


13C-1,2,3,4,7,8-HxCDD

200317R1_16



200317R1_16



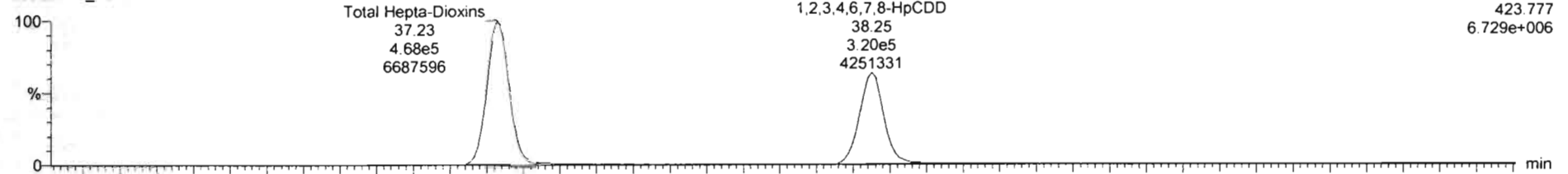
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Last Altered: Thursday, March 26, 2020 10:40:40 Pacific Daylight Time
Printed: Thursday, March 26, 2020 10:41:00 Pacific Daylight Time

Name: 200317R1_16, Date: 18-Mar-2020, Time: 00:59:23, ID: 2000144-11@2X PDI-082SC-A-04-05-191002 17.76, Description: PDI-082SC-A-04-05-191002

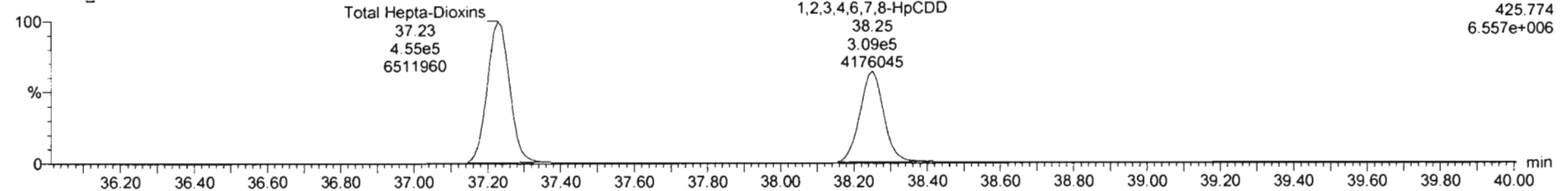
1,2,3,4,6,7,8-HpCDD

200317R1_16



F4: Voltage SIR, EI+
423.777
6.729e+006

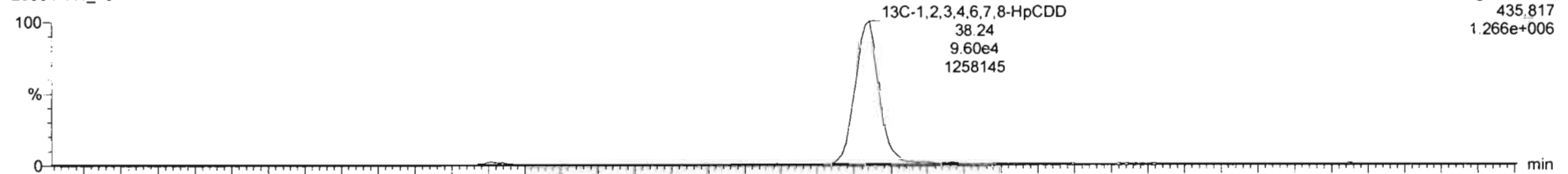
200317R1_16



F4: Voltage SIR, EI+
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6.557e+006

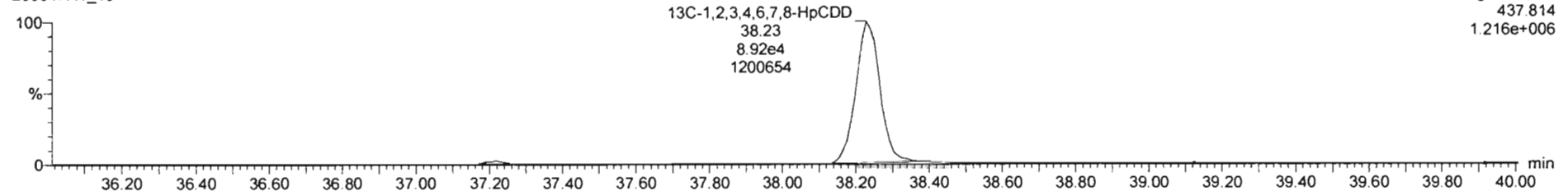
13C-1,2,3,4,6,7,8-HpCDD

200317R1_16



F4: Voltage SIR, EI+
435.817
1.266e+006

200317R1_16



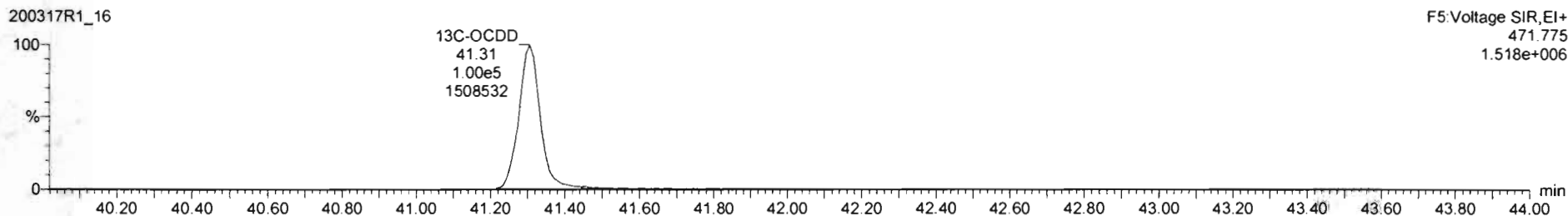
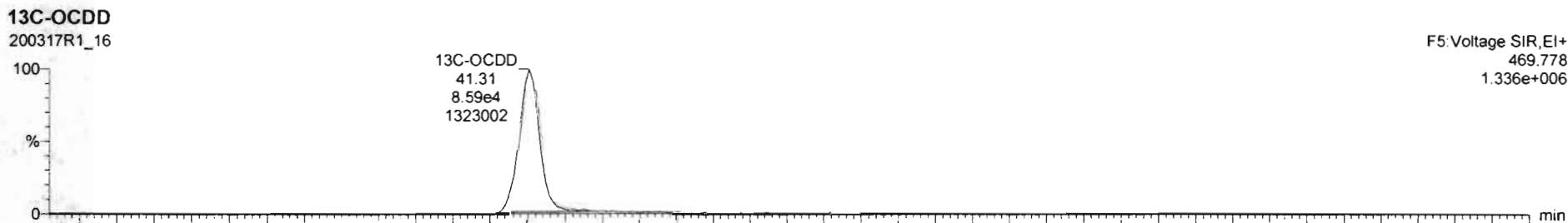
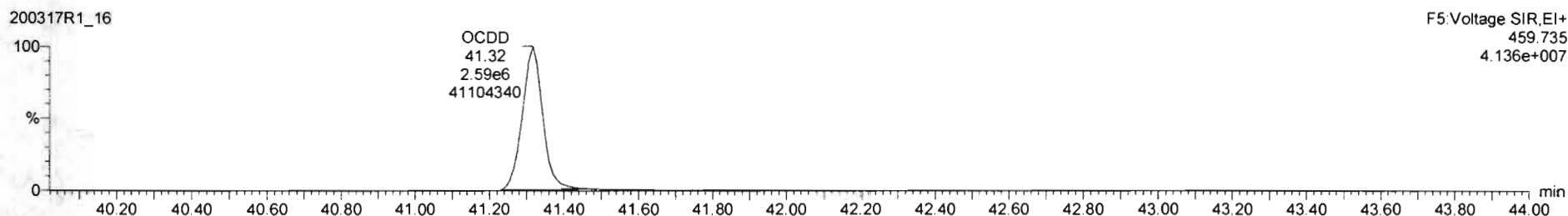
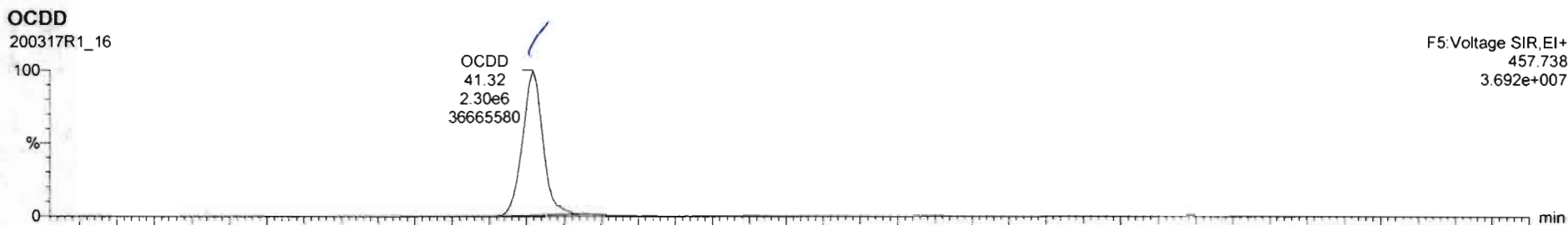
F4: Voltage SIR, EI+
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1.216e+006

Dataset: Untitled

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Printed: Thursday, March 26, 2020 10:41:00 Pacific Daylight Time

Name: 200317R1_16, Date: 13-Mar-2020, Time: 00:59:23, ID: 2000144-11@2X PDI-082SC-A-04-05-191002 17.76, Description: PDI-082SC-A-04-05-191002



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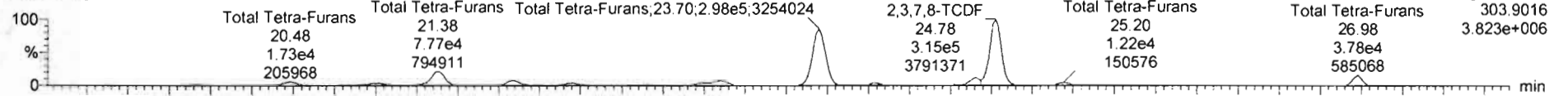
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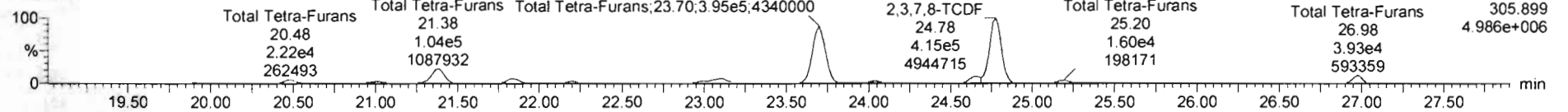
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2,3,7,8-TCDF

200317R1_16

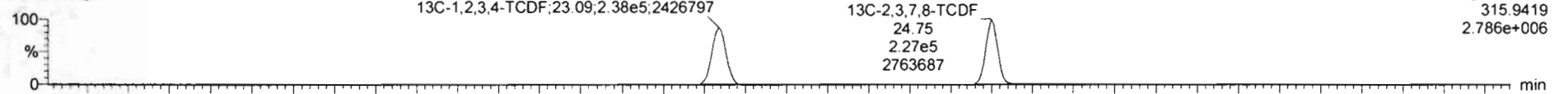


200317R1_16

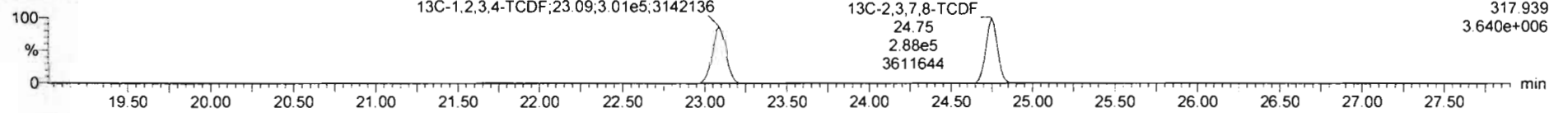


13C-2,3,7,8-TCDF

200317R1_16

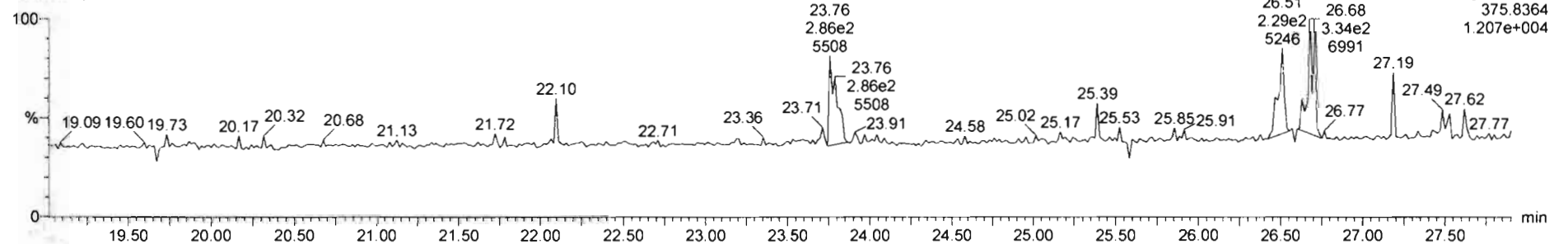


200317R1_16



DPE1

200317R1_16



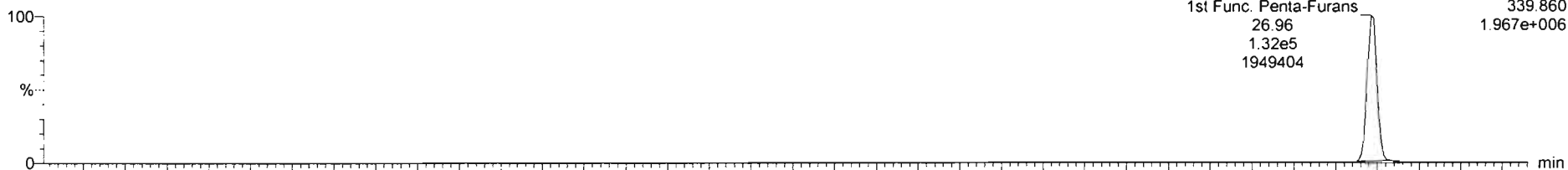
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Printed: Thursday, March 26, 2020 10:41:00 Pacific Daylight Time

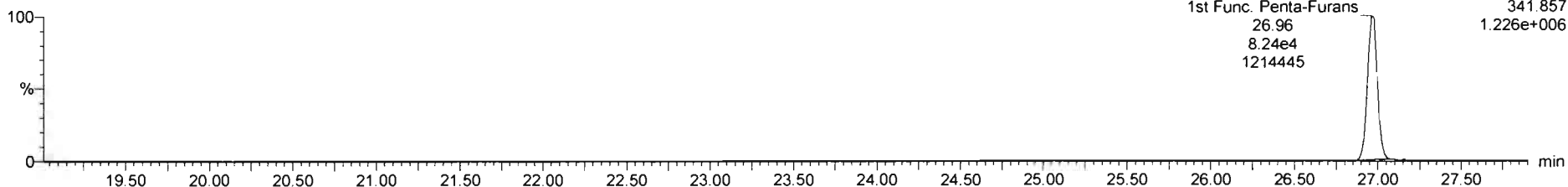
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1st Func. Penta-Furans

200317R1_16

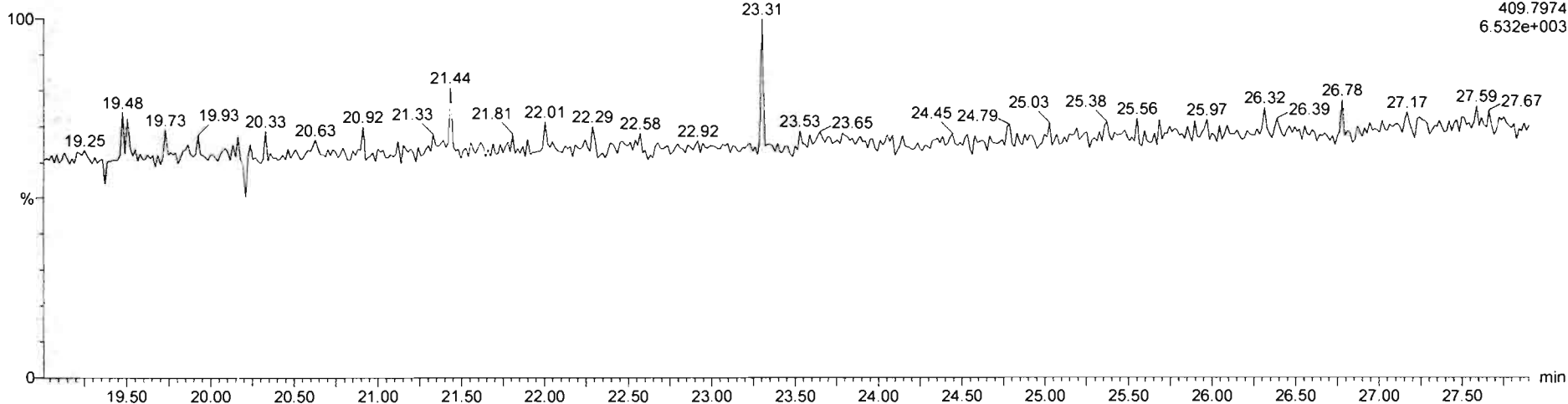


200317R1_16



DPE6

200317R1_16



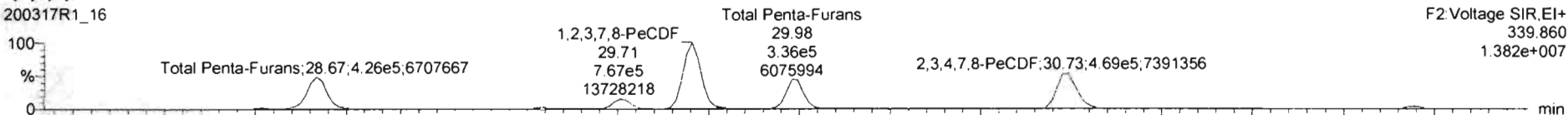
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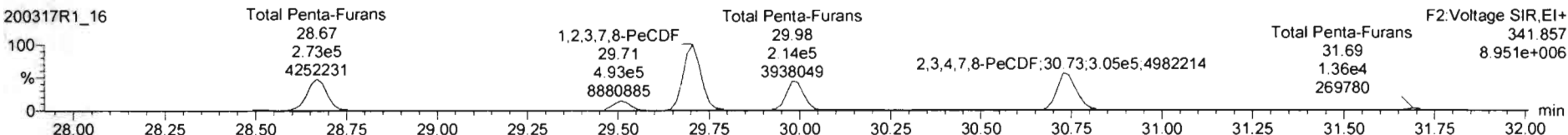
Name: 200317R1_16, Date: 18-Mar-2020, Time: 00:59:23, ID: 2000144-11@2X PDI-082SC-A-04-05-191002 17.76, Description: PDI-082SC-A-04-05-191002

1,2,3,7,8-PeCDF

200317R1_16

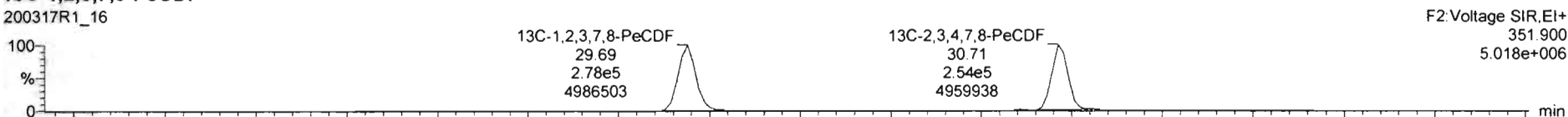


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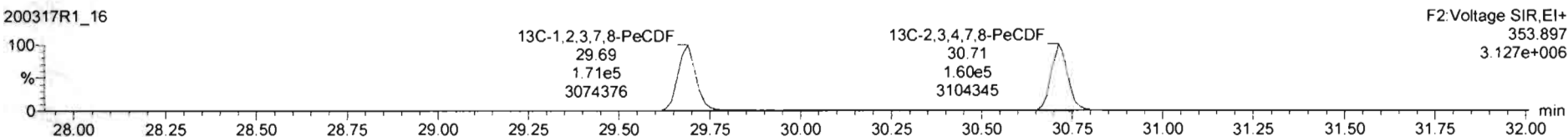


13C-1,2,3,7,8-PeCDF

200317R1_16

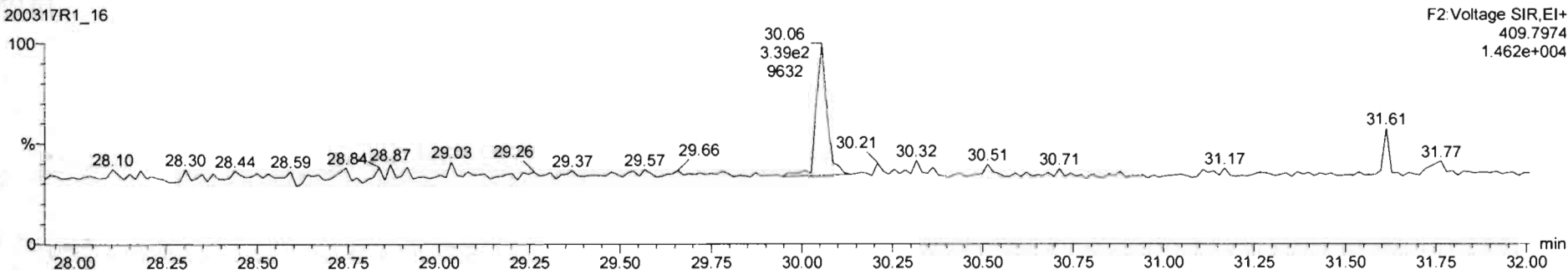


200317R1_16



DPE2

200317R1_16

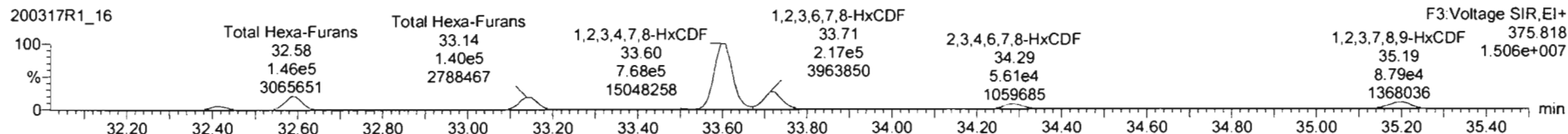
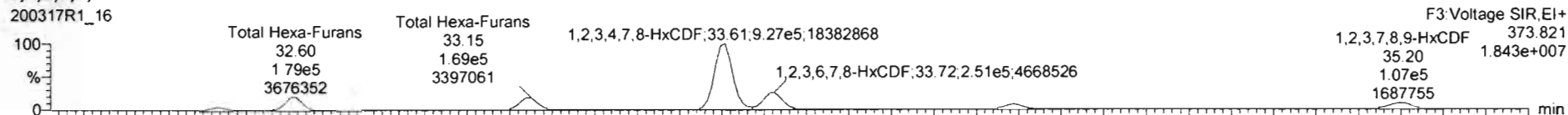


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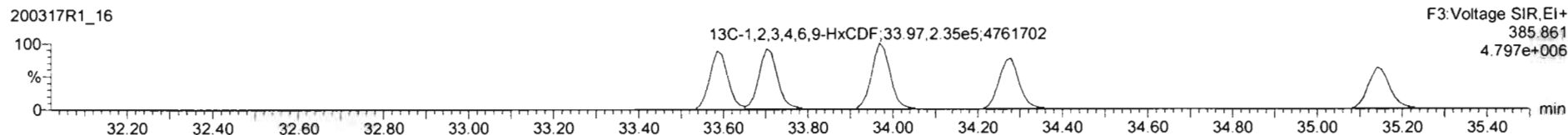
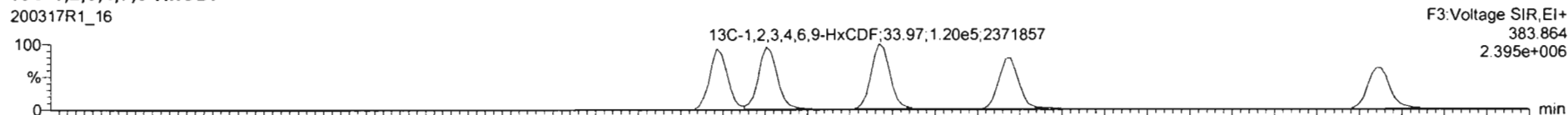
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Name: 200317R1_16, Date: 18-Mar-2020, Time: 00:59:23, ID: 2000144-11@2X PDI-082SC-A-04-05-191002 17.76, Description: PDI-082SC-A-04-05-191002

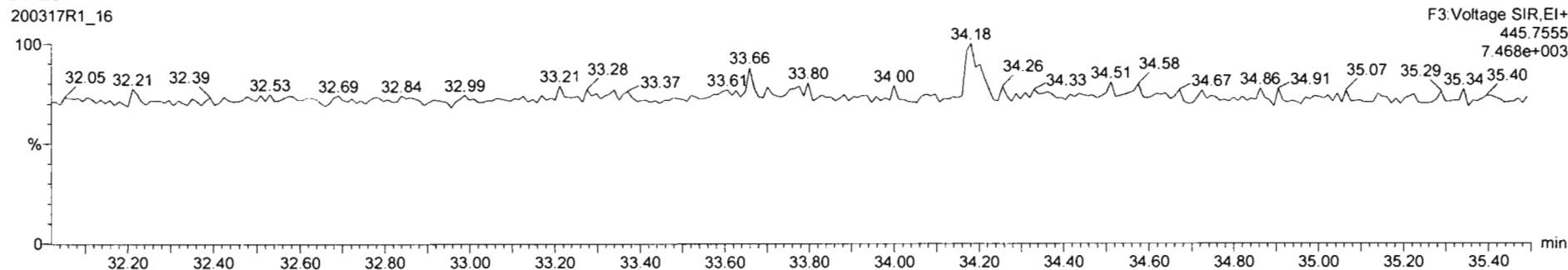
1,2,3,4,7,8-HxCDF



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



DPE3



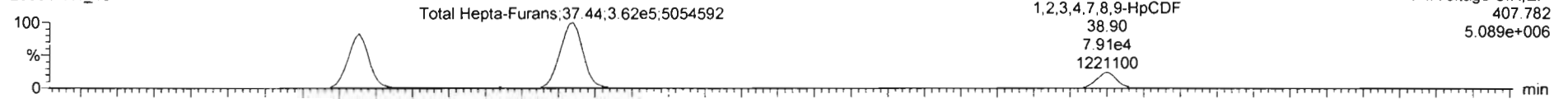
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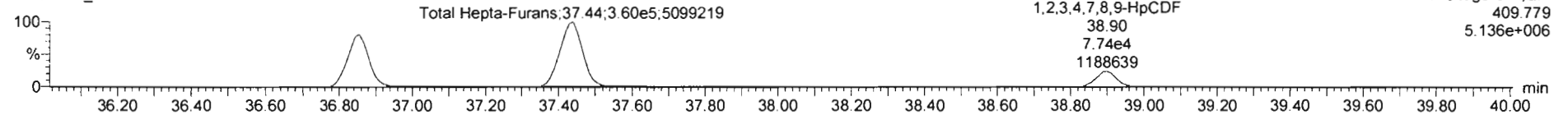
Name: 200317R1_16, Date: 18-Mar-2020, Time: 00:59:23, ID: 2000144-11@2X PDI-082SC-A-04-05-191002 17.76, Description: PDI-082SC-A-04-05-191002

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

200317R1_16

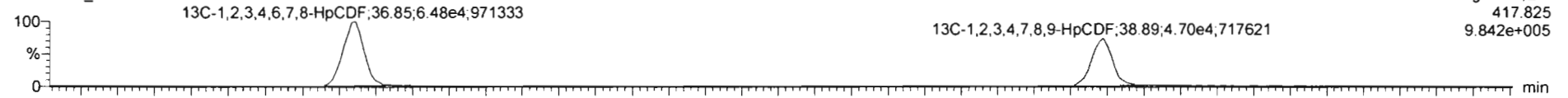


200317R1_16

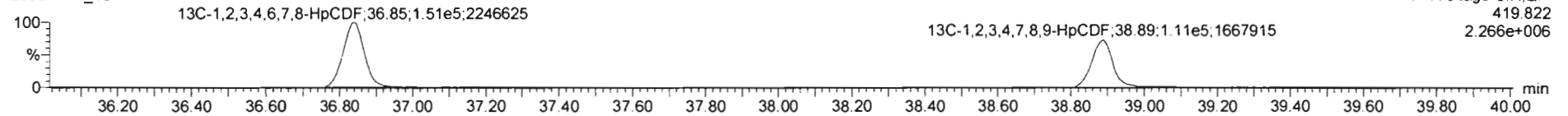


13C-1,2,3,4,6,7,8-HpCDF

200317R1_16

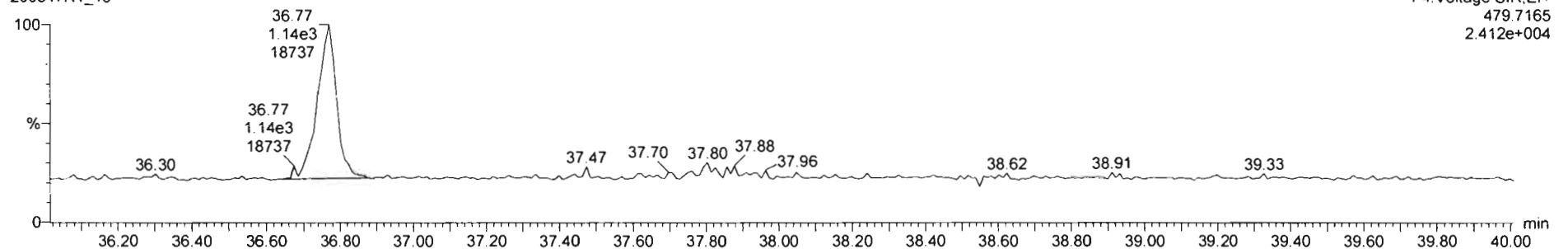


200317R1_16



DPE4

200317R1_16

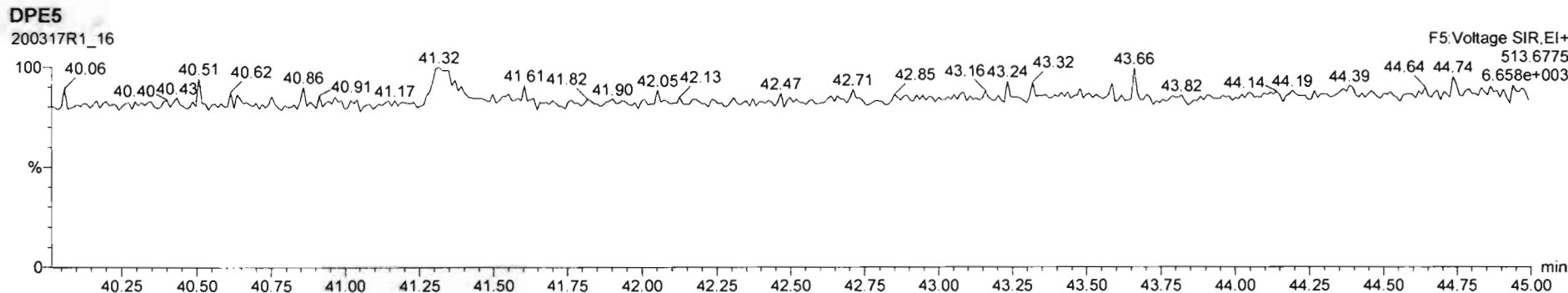
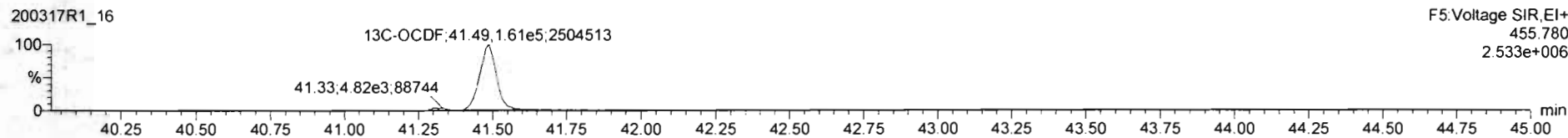
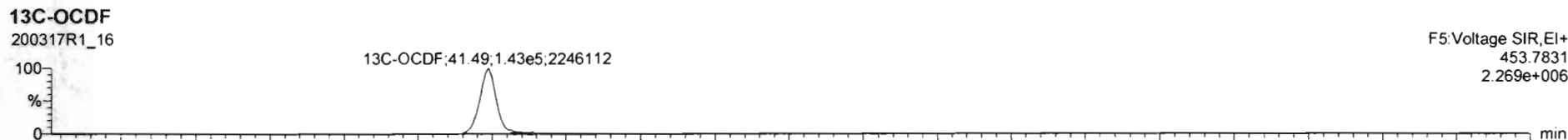
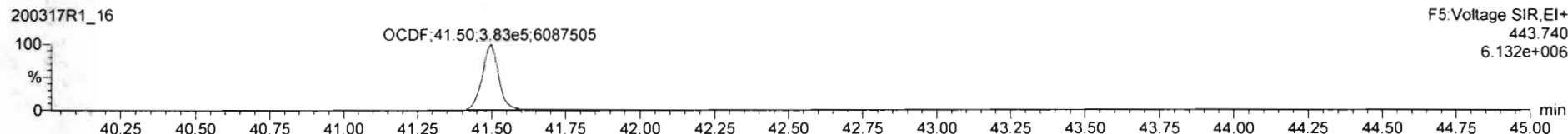
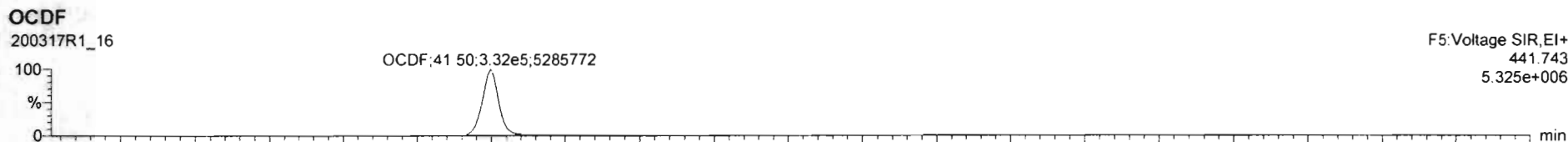


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Last Altered: Thursday, March 26, 2020 10:40:40 Pacific Daylight Time

Printed: Thursday, March 26, 2020 10:41:00 Pacific Daylight Time

Name: 200317R1_16, Date: 18-Mar-2020, Time: 00:59:23, ID: 2000144-11@2X PDI-082SC-A-04-05-191002 17.76, Description: PDI-082SC-A-04-05-191002

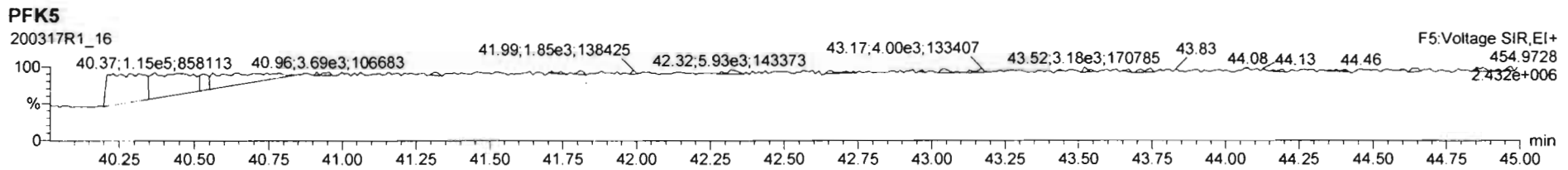
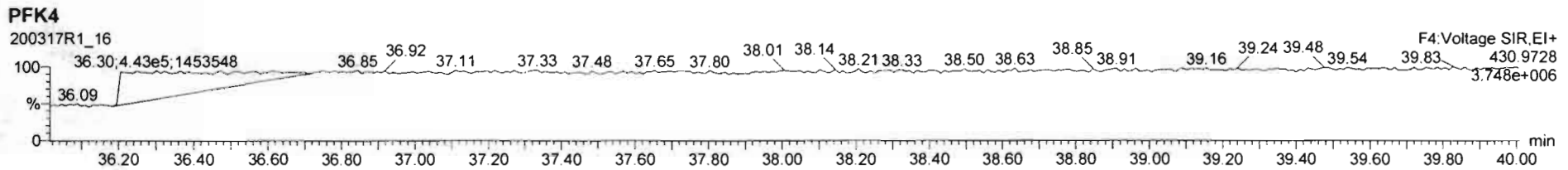
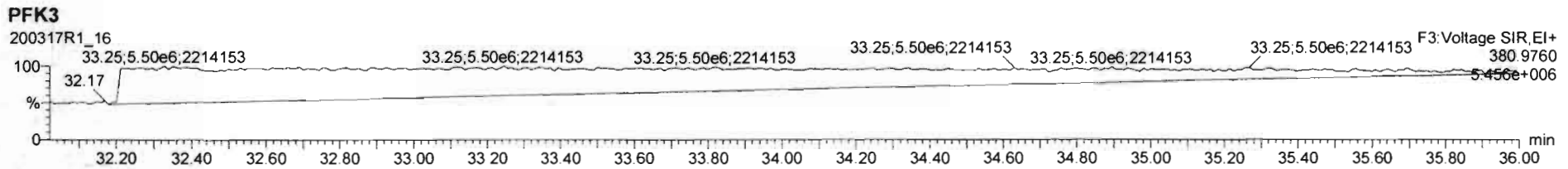
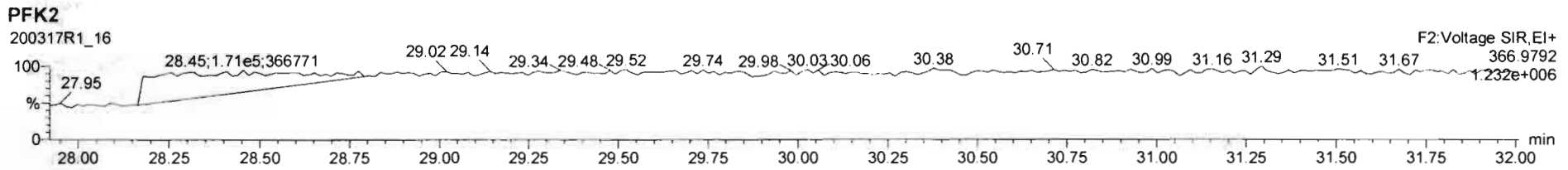
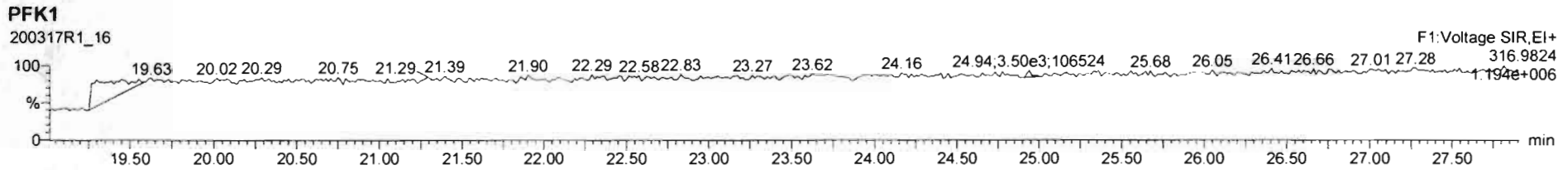


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Last Altered: Thursday, March 26, 2020 10:40:40 Pacific Daylight Time

Printed: Thursday, March 26, 2020 10:41:00 Pacific Daylight Time

Name: 200317R1_16, Date: 18-Mar-2020, Time: 00:59:23, ID: 2000144-11@2X PDI-082SC-A-04-05-191002 17.76, Description: PDI-082SC-A-04-05-191002



Dataset: U:\VG12.PRO\Results\200315R2\200315R2-7.qld

Last Altered: Wednesday, March 25, 2020 13:32:48 Pacific Daylight Time

Printed: Wednesday, March 25, 2020 13:35:42 Pacific Daylight Time

PL 03/25/2020
C7 03/26/2020

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_7, Date: 16-Mar-2020, Time: 04:45:07, ID: 2000144-12 PDI-082SC-A-05-06-191002 17.56, Description: PDI-082SC-A-05-06-191002

#	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	1.78e3	6.21e5	0.542	YES	10.05	25.77	25.78	1.00	1.00	NO	0.58169		0.143	0.47006
2	2 1,2,3,7,8-PeCDD	1.88e3	5.03e5	0.517	YES	10.05	31.04	31.03	1.00	1.00	NO	0.80989		0.172	0.71382
3	3 1,2,3,4,7,8-HxCDD	1.94e3	3.49e5	1.342	NO	10.05	34.45	34.46	1.00	1.00	NO	0.97507		0.207	0.97507
4	4 1,2,3,6,7,8-HxCDD	1.30e4	4.37e5	1.177	NO	10.05	34.53	34.56	1.00	1.00	NO	6.0300		0.202	6.0300
5	5 1,2,3,7,8,9-HxCDD	4.54e3	3.96e5	1.107	NO	10.05	34.81	34.83	1.00	1.00	NO	2.3571		0.234	2.3571
6	6 1,2,3,4,6,7,8-HpCDD	2.86e5	3.00e5	1.003	NO	10.05	38.28	38.29	1.00	1.00	NO	189.17		1.305	189.17
7	7 OCDD	4.80e6	6.78e5	0.883	NO	10.05	41.41	41.42	1.00	1.00	NO	2680.8		1.113	2680.8
8	8 2,3,7,8-TCDF	2.16e5	7.67e5	0.758	NO	10.05	24.77	24.78	1.00	1.00	NO	61.231	OK	0.322	61.231
9	9 1,2,3,7,8-PeCDF	2.69e5	6.69e5	1.593	NO	10.05	29.70	29.69	1.00	1.00	NO	83.399		0.274	83.399
10	10 2,3,4,7,8-PeCDF	1.18e5	6.50e5	1.535	NO	10.05	30.73	30.73	1.00	1.00	NO	36.005		0.257	36.005
11	11 1,2,3,4,7,8-HxCDF	3.23e5	4.69e5	1.196	NO	10.05	33.58	33.60	1.00	1.00	NO	131.86		0.261	131.86
12	12 1,2,3,6,7,8-HxCDF	1.01e5	5.06e5	1.166	NO	10.05	33.71	33.71	1.00	1.00	NO	39.193		0.280	39.193
13	13 2,3,4,6,7,8-HxCDF	2.57e4	4.52e5	1.219	NO	10.05	34.30	34.28	1.00	1.00	NO	10.384		0.303	10.384
14	14 1,2,3,7,8,9-HxCDF	2.85e4	4.05e5	1.165	NO	10.05	35.15	35.19	1.00	1.00	NO	13.650		0.383	13.650
15	15 1,2,3,4,6,7,8-HpCDF	2.47e5	3.40e5	1.021	NO	10.05	36.89	36.87	1.00	1.00	NO	137.94		0.653	137.94
16	16 1,2,3,4,7,8,9-HpCDF	4.07e4	2.57e5	1.017	NO	10.05	38.92	38.94	1.00	1.00	NO	26.065		0.749	26.065
17	17 OCDF	6.75e5	8.19e5	0.840	NO	10.05	41.58	41.61	1.00	1.00	NO	346.31		0.459	346.31
18	18 13C-2,3,7,8-TCDD	6.21e5	5.59e5	0.773	NO	10.05	25.73	25.74	1.03	1.03	NO	186.45	93.7	0.389	
19	19 13C-1,2,3,7,8-PeCDD	5.03e5	5.59e5	0.632	NO	10.05	30.92	31.02	1.24	1.24	NO	206.92	104.0	0.462	
20	20 13C-1,2,3,4,7,8-HxCDD	3.49e5	4.86e5	1.290	NO	10.05	34.44	34.44	1.01	1.01	NO	189.28	95.1	0.838	
21	21 13C-1,2,3,6,7,8-HxCDD	4.37e5	4.86e5	1.217	NO	10.05	34.55	34.53	1.02	1.02	NO	193.24	97.1	0.682	
22	22 13C-1,2,3,7,8,9-HxCDD	3.96e5	4.86e5	1.223	NO	10.05	34.81	34.80	1.02	1.02	NO	195.44	98.2	0.761	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.00e5	4.86e5	1.083	NO	10.05	38.27	38.27	1.13	1.13	NO	204.82	102.9	0.802	
24	24 13C-OCDD	6.78e5	4.86e5	0.901	NO	10.05	41.42	41.41	1.22	1.22	NO	485.65	122.0	0.884	
25	25 13C-2,3,7,8-TCDF	7.67e5	8.04e5	0.769	NO	10.05	24.76	24.75	0.99	0.99	NO	174.13	87.5	0.633	
26	26 13C-1,2,3,7,8-PeCDF	6.69e5	8.04e5	1.554	NO	10.05	29.59	29.67	1.18	1.19	NO	188.98	95.0	0.786	
27	27 13C-2,3,4,7,8-PeCDF	6.50e5	8.04e5	1.602	NO	10.05	30.60	30.70	1.22	1.23	NO	190.53	95.7	0.816	
28	28 13C-1,2,3,4,7,8-HxCDF	4.69e5	4.86e5	0.510	NO	10.05	33.59	33.58	0.99	0.99	NO	191.97	96.5	0.662	
29	29 13C-1,2,3,6,7,8-HxCDF	5.06e5	4.86e5	0.523	NO	10.05	33.70	33.70	0.99	0.99	NO	185.04	93.0	0.593	
30	30 13C-2,3,4,6,7,8-HxCDF	4.52e5	4.86e5	0.517	NO	10.05	34.28	34.27	1.01	1.01	NO	178.46	89.7	0.640	
31	31 13C-1,2,3,7,8,9-HxCDF	4.05e5	4.86e5	0.497	NO	10.05	35.15	35.15	1.03	1.03	NO	189.58	95.3	0.759	
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.40e5	4.86e5	0.451	NO	10.05	36.87	36.86	1.09	1.08	NO	180.48	90.7	0.754	

Dataset: U:\VG12.PRO\Results\200315R2\200315R2-7.qld

Last Altered: Wednesday, March 25, 2020 13:32:48 Pacific Daylight Time

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Name: 200315R2_7, Date: 16-Mar-2020, Time: 04:45:07, ID: 2000144-12 PDI-082SC-A-05-06-191002 17.56, Description: PDI-082SC-A-05-06-191002

#	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	2.57e5	4.86e5	0.419	NO	10.05	38.95	38.92	1.15	1.15	NO	202.14	101.6	1.120	
34	34 13C-OCDF	8.19e5	4.86e5	0.884	NO	10.05	41.60	41.58	1.22	1.22	NO	481.33	120.9	0.741	
35	35 37Cl-2,3,7,8-TCDD	2.30e5	5.59e5			10.05	25.74	25.76	1.03	1.03	NO	69.599	87.4	0.092	
36	36 13C-1,2,3,4-TCDD	5.59e5	5.59e5	0.779	NO	10.05	25.05	25.02	1.00	1.00	NO	199.00	100.0	0.461	
37	37 13C-1,2,3,4-TCDF	8.04e5	8.04e5	0.792	NO	10.05	23.19	23.10	1.00	1.00	NO	199.00	100.0	0.689	
38	38 13C-1,2,3,4,6,9-HxCDF	4.86e5	4.86e5	0.511	NO	10.05	33.88	33.97	1.00	1.00	NO	199.00	100.0	0.663	
39	39 Total Tetra-Dioxins		6.21e5			10.05	24.62		0.00		NO	4.0094		0.143	6.5738
40	40 Total Penta-Dioxins		5.03e5			10.05	29.96		0.00		NO	6.4783		0.172	9.0372
41	41 Total Hexa-Dioxins		0.00e0			10.05	33.63		0.00		NO	53.780		0.222	53.780
42	42 Total Hepta-Dioxins		3.00e5			10.05	37.64		0.00		NO	453.65		1.305	453.65
43	43 Total Tetra-Furans		7.67e5			10.05	23.61		0.00		NO	197.86		0.322	206.14
44	44 1st Func. Penta-Furans		0.00e0			10.05	27.09		0.00		NO	25.337		0.058	25.337
45	45 Total Penta-Furans		0.00e0			10.05	29.27		0.00		NO	226.34		0.271	240.78
46	46 Total Hexa-Furans		0.00e0			10.05	33.56		0.00		NO	293.21		0.290	295.60
47	47 Total Hepta-Furans		0.00e0			10.05	37.83		0.00		NO	467.96		0.744	467.96

Dataset: U:\VG12.PRO\Results\200315R2\200315R2-7.qld

Last Altered: Wednesday, March 25, 2020 13:32:48 Pacific Daylight Time

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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_7, Date: 16-Mar-2020, Time: 04:45:07

Tetra-Dioxins

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	1 2,3,7,8-TCDD	25.78	0.542	YES	6.27e2	2.70e5	0.000	0.470
2	39 Total Tetra-Dioxins	25.48	0.905	YES	6.35e2	2.70e5	0.000	0.405
3	39 Total Tetra-Dioxins	24.60	0.951	YES	2.38e2	2.70e5	0.000	0.144
4	39 Total Tetra-Dioxins	23.88	0.965	YES	5.47e2	2.70e5	0.000	0.327
5	39 Total Tetra-Dioxins	23.34	0.648	YES	2.51e2	2.70e5	0.000	0.188
6	39 Total Tetra-Dioxins	21.83	0.922	YES	1.16e3	2.70e5	0.000	0.723
7	39 Total Tetra-Dioxins	21.41	0.768	NO	5.34e3	2.70e5	4.01	4.01
8	39 Total Tetra-Dioxins	22.34	0.898	YES	4.77e2	2.70e5	0.000	0.307

Penta-Dioxins

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	40 Total Penta-Dioxins	31.44	0.611	NO	3.04e2	1.95e5	0.345	0.345
2	2 1,2,3,7,8-PeCDD	31.03	0.517	YES	6.42e2	1.95e5	0.000	0.714
3	40 Total Penta-Dioxins	30.24	0.770	YES	1.29e3	1.95e5	0.000	1.18
4	40 Total Penta-Dioxins	30.03	0.679	NO	3.96e2	1.95e5	0.420	0.420
5	40 Total Penta-Dioxins	29.92	0.687	NO	6.98e2	1.95e5	0.736	0.736
6	40 Total Penta-Dioxins	29.74	0.651	NO	1.83e3	1.95e5	1.99	1.99
7	40 Total Penta-Dioxins	29.22	0.421	YES	4.91e2	1.95e5	0.000	0.546
8	40 Total Penta-Dioxins	28.73	0.608	NO	2.63e3	1.95e5	2.99	2.99
9	40 Total Penta-Dioxins	30.61	1.122	YES	1.96e2	1.95e5	0.000	0.122

Dataset: U:\VG12.PRO\Results\200315R2\200315R2-7.qld

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Name: 200315R2_7, Date: 16-Mar-2020, Time: 04:45:07

Hexa-Dioxins

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	4 1,2,3,6,7,8-HxCDD	34.56	1.177	NO	7.05e3	2.40e5	6.03	6.03
2	3 1,2,3,4,7,8-HxCDD	34.46	1.342	NO	1.11e3	1.97e5	0.975	0.975
3	41 Total Hexa-Dioxins	33.79	1.200	NO	2.15e4	2.18e5	20.3	20.3
4	41 Total Hexa-Dioxins	33.53	1.113	NO	2.15e3	2.18e5	2.09	2.09
5	41 Total Hexa-Dioxins	32.97	1.216	NO	2.30e4	2.18e5	21.5	21.5
6	5 1,2,3,7,8,9-HxCDD	34.83	1.107	NO	2.39e3	2.18e5	2.36	2.36
7	41 Total Hexa-Dioxins	34.72	1.134	NO	5.77e2	2.18e5	0.557	0.557

Hepta-Dioxins

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	38.29	1.003	NO	1.43e5	1.56e5	189	189
2	42 Total Hepta-Dioxins	37.25	1.023	NO	2.03e5	1.56e5	264	264

Dataset: U:\VG12.PRO\Results\200315R2\200315R2-7.qld

Last Altered: Wednesday, March 25, 2020 13:32:48 Pacific Daylight Time
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Name: 200315R2_7, Date: 16-Mar-2020, Time: 04:45:07

Tetra-Furans

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	43 Total Tetra-Furans	19.40	0.726	NO	7.50e2	3.33e5	0.505	0.505
2	43 Total Tetra-Furans	24.64	0.780	NO	7.75e3	3.33e5	5.02	5.02
3	43 Total Tetra-Furans	24.52	0.980	YES	8.48e2	3.33e5	0.000	0.434
4	43 Total Tetra-Furans	24.04	0.801	NO	3.60e3	3.33e5	2.30	2.30
5	43 Total Tetra-Furans	23.71	0.764	NO	1.08e5	3.33e5	70.8	70.8
6	43 Total Tetra-Furans	23.12	0.780	NO	1.25e4	3.33e5	8.07	8.07
7	43 Total Tetra-Furans	23.01	0.727	NO	4.31e3	3.33e5	2.91	2.91
8	43 Total Tetra-Furans	22.83	0.829	NO	5.30e2	3.33e5	0.331	0.331
9	43 Total Tetra-Furans	22.67	0.732	NO	9.90e2	3.33e5	0.664	0.664
10	43 Total Tetra-Furans	22.19	0.811	NO	6.65e3	3.33e5	4.21	4.21
11	43 Total Tetra-Furans	21.98	0.976	YES	7.45e2	3.33e5	0.000	0.383
12	43 Total Tetra-Furans	21.84	0.747	NO	1.31e4	3.33e5	8.71	8.71
13	43 Total Tetra-Furans	21.38	0.735	NO	2.72e4	3.33e5	18.2	18.2
14	43 Total Tetra-Furans	21.02	0.785	NO	6.59e3	3.33e5	4.25	4.25
15	43 Total Tetra-Furans	20.48	0.771	NO	8.53e3	3.33e5	5.56	5.56
16	43 Total Tetra-Furans	19.91	0.751	NO	2.03e3	3.33e5	1.34	1.34
17	43 Total Tetra-Furans	26.96	0.907	YES	1.30e4	3.33e5	0.000	7.18
18	43 Total Tetra-Furans	26.69	0.858	NO	6.66e2	3.33e5	0.409	0.409
19	43 Total Tetra-Furans	26.51	0.627	YES	4.25e2	3.33e5	0.000	0.277
20	43 Total Tetra-Furans	25.48	0.759	NO	1.28e3	3.33e5	0.843	0.843
21	43 Total Tetra-Furans	25.20	0.851	NO	4.08e3	3.33e5	2.52	2.52
22	8 2,3,7,8-TCDF	24.78	0.758	NO	9.31e4	3.33e5	61.2	61.2

P

Penta-Furans function 1

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	44 1st Func. Penta-Furans	26.95	1.568	NO	4.92e4	4.04e5	25.3	25.3

Dataset: U:\VG12.PRO\Results\200315R2\200315R2-7.qld

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Name: 200315R2_7, Date: 16-Mar-2020, Time: 04:45:07

Penta-Furans

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	45 Total Penta-Furans	31.69	1.600	NO	5.31e3	4.04e5	2.72	2.72
2	10 2,3,4,7,8-PeCDF	30.73	1.535	NO	7.14e4	4.00e5	36.0	36.0
3	45 Total Penta-Furans	29.97	1.575	NO	6.40e4	4.04e5	32.9	32.9
4	9 1,2,3,7,8-PeCDF	29.69	1.593	NO	1.65e5	4.07e5	83.4	83.4
5	45 Total Penta-Furans	29.49	1.490	NO	2.15e4	4.04e5	11.3	11.3
6	45 Total Penta-Furans	29.28	1.541	NO	9.88e3	4.04e5	5.13	5.13
7	45 Total Penta-Furans	28.65	1.563	NO	1.03e5	4.04e5	53.1	53.1
8	45 Total Penta-Furans	28.50	1.426	NO	3.37e3	4.04e5	1.80	1.80
9	45 Total Penta-Furans	30.74	1.650	NO	2.86e4	4.04e5	0.000	14.4

Hexa-Furans

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	14 1,2,3,7,8,9-HxCDF	35.19	1.165	NO	1.53e4	1.34e5	13.7	13.7
2	13 2,3,4,6,7,8-HxCDF	34.28	1.219	NO	1.41e4	1.54e5	10.4	10.4
3	46 Total Hexa-Furans	33.97	0.879	YES	1.29e3	1.55e5	0.000	0.931
4	12 1,2,3,6,7,8-HxCDF	33.71	1.166	NO	5.43e4	1.74e5	39.2	39.2
5	11 1,2,3,4,7,8-HxCDF	33.60	1.196	NO	1.76e5	1.59e5	132	132
6	46 Total Hexa-Furans	33.49	1.035	YES	2.03e3	1.55e5	0.000	1.46
7	46 Total Hexa-Furans	33.14	1.229	NO	7.13e4	1.55e5	51.4	51.4
8	46 Total Hexa-Furans	32.95	1.296	NO	1.06e3	1.55e5	0.751	0.751
9	46 Total Hexa-Furans	32.57	1.211	NO	4.64e4	1.55e5	33.7	33.7
10	46 Total Hexa-Furans	32.40	1.218	NO	1.22e4	1.55e5	8.87	8.87
11	46 Total Hexa-Furans	35.22	1.184	NO	4.60e3	1.55e5	3.38	3.38

Hepta-Furans

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	15 1,2,3,4,6,7,8-HpCDF	36.87	1.021	NO	1.25e5	1.06e5	138	138
2	16 1,2,3,4,7,8,9-HpCDF	38.94	1.017	NO	2.05e4	7.58e4	26.1	26.1
3	47 Total Hepta-Furans	37.45	1.007	NO	2.38e5	9.08e4	302	302
4	47 Total Hepta-Furans	37.24	0.969	NO	1.27e3	9.08e4	1.64	1.64

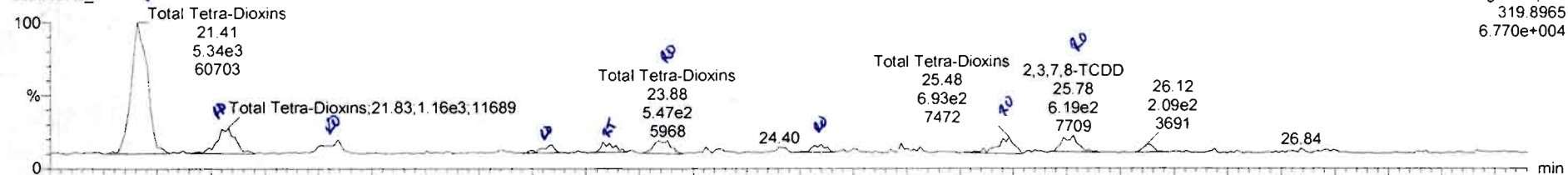
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Printed: Monday, March 16, 2020 08:51:00 Pacific Daylight Time

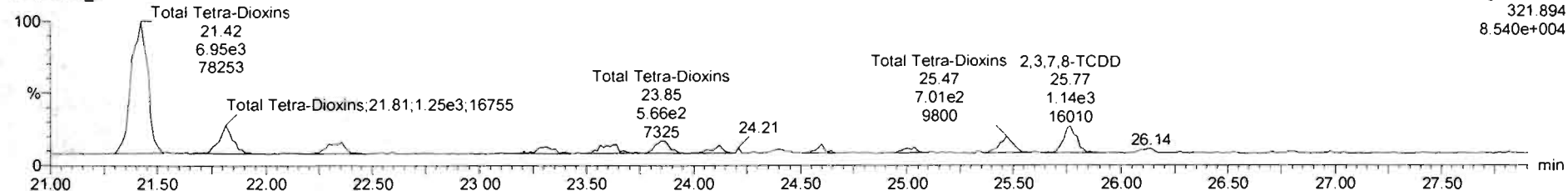
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2,3,7,8-TCDD

200315R2_7

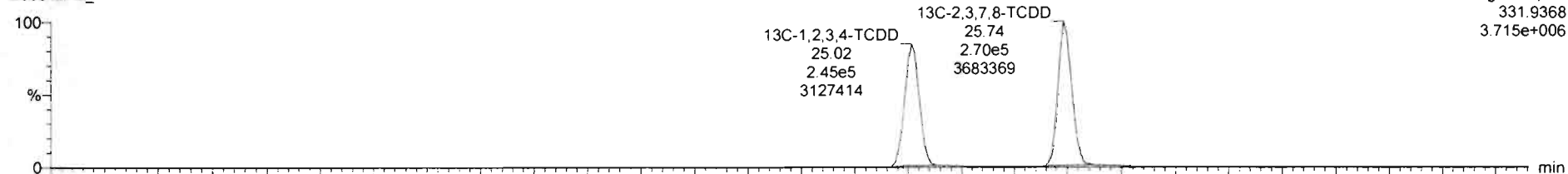


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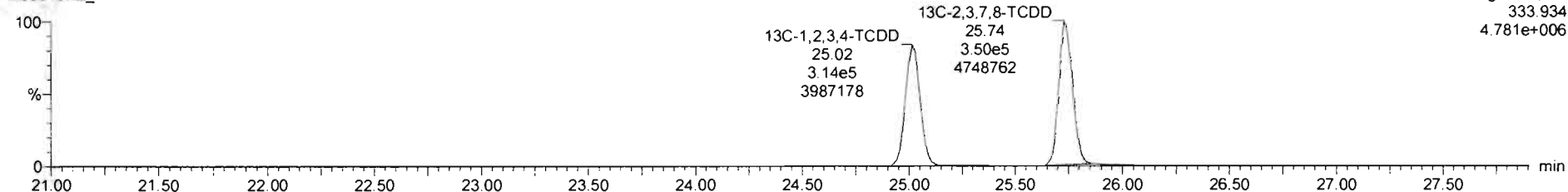


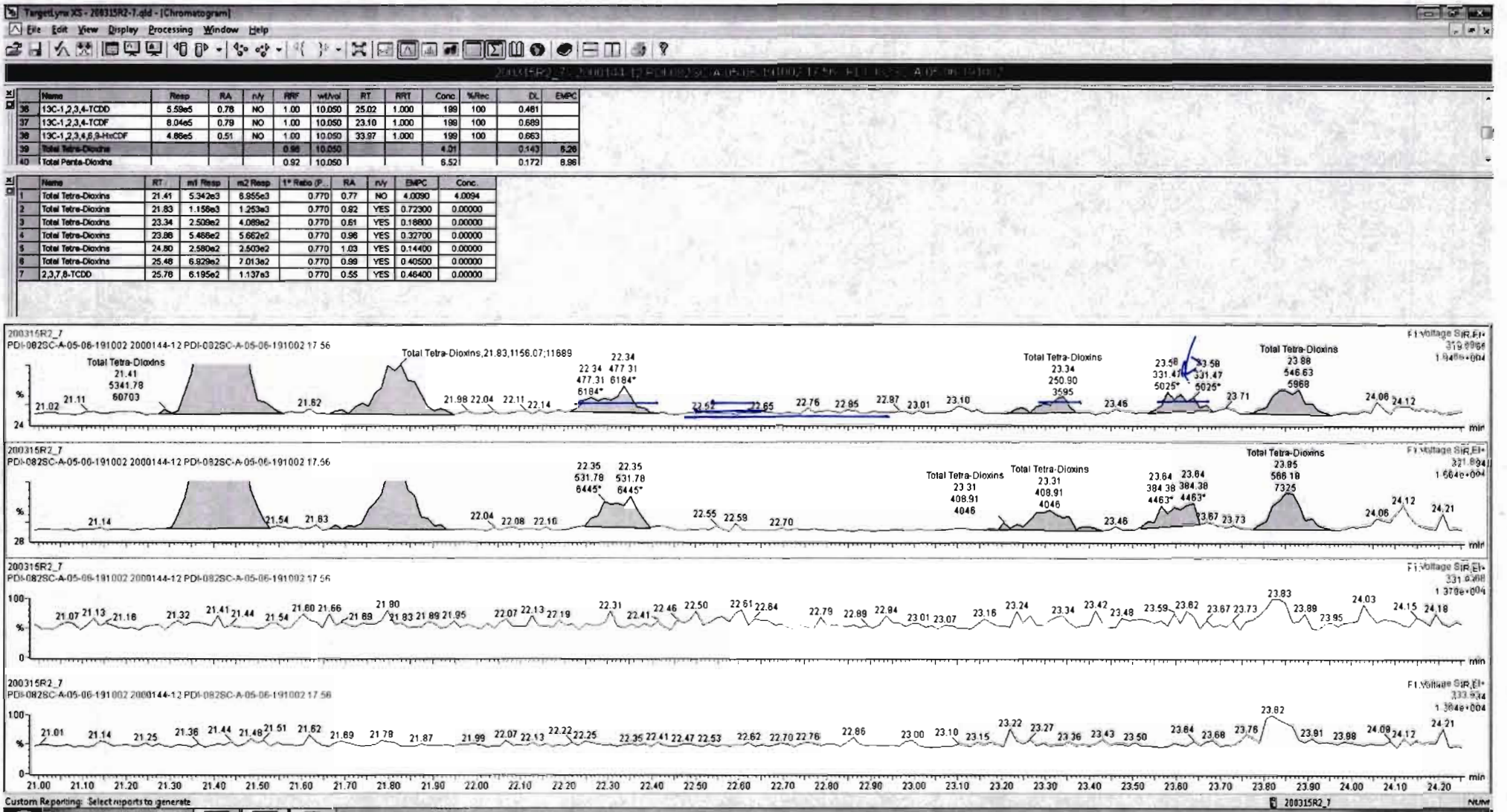
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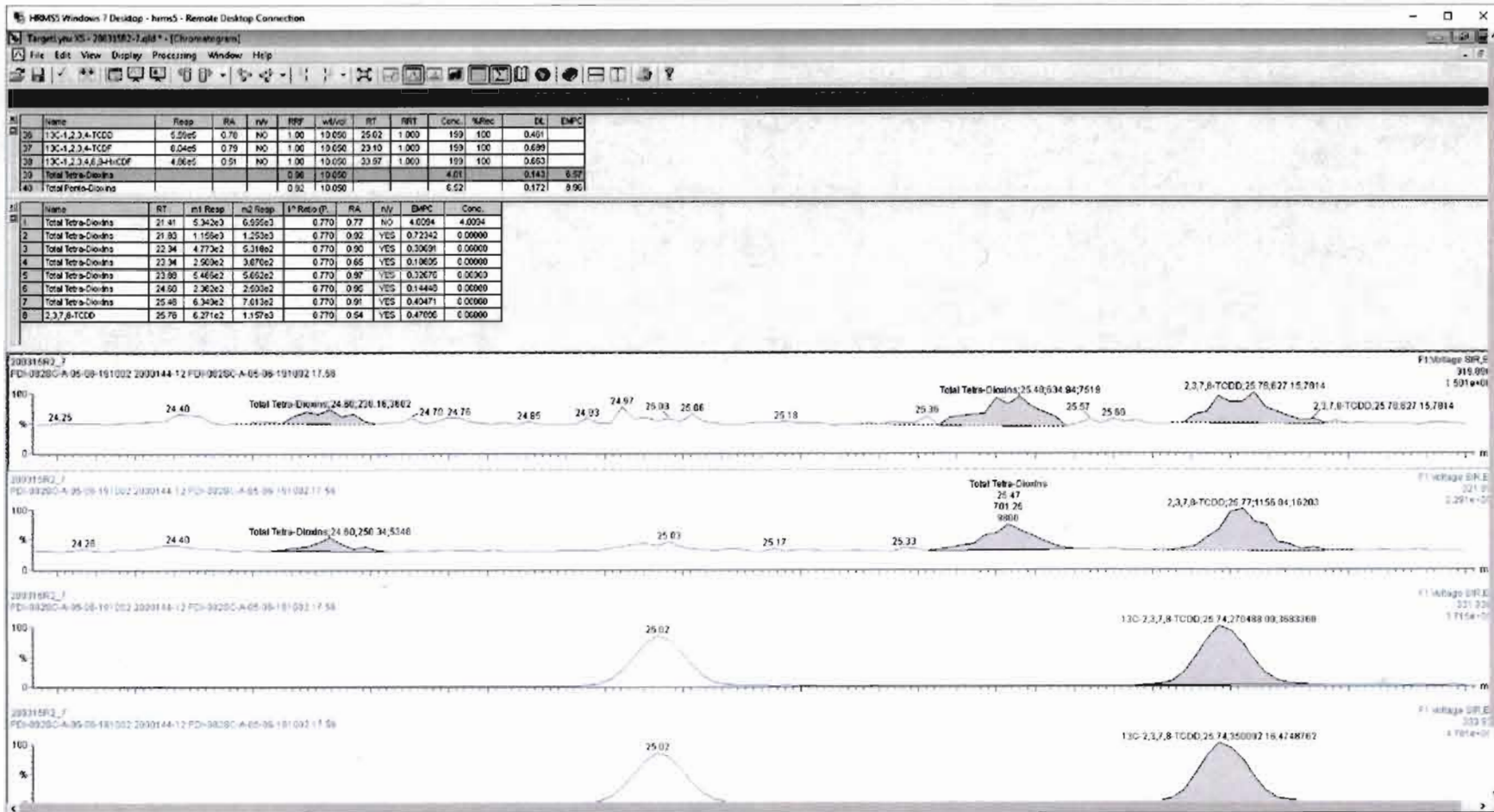
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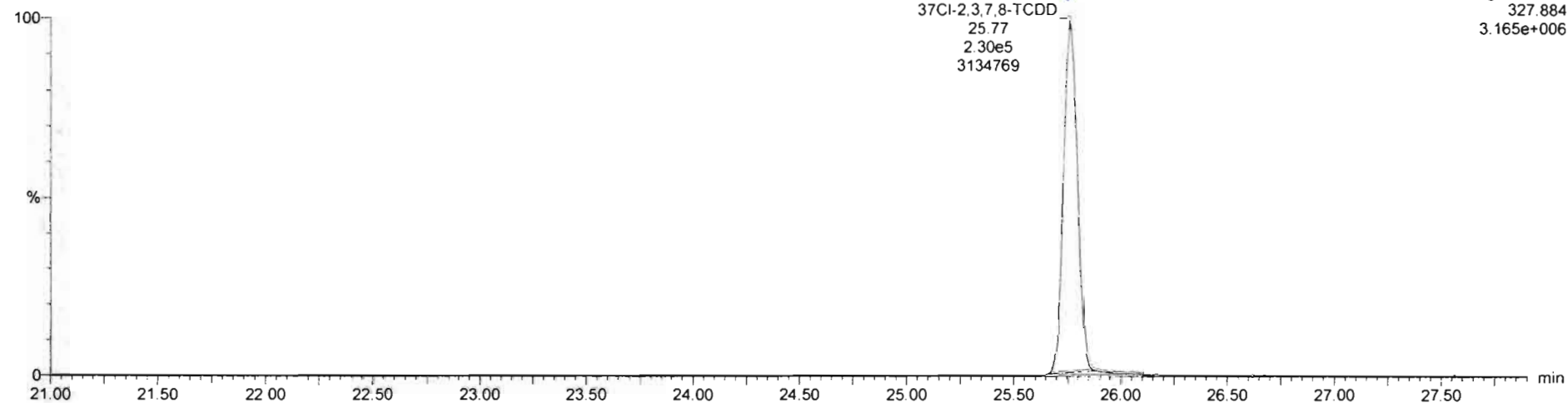
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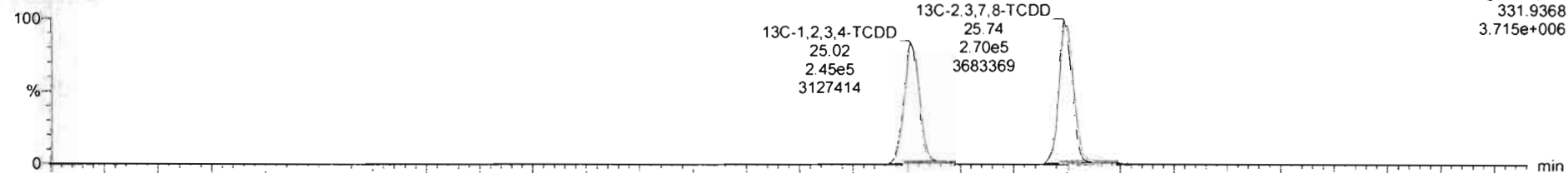
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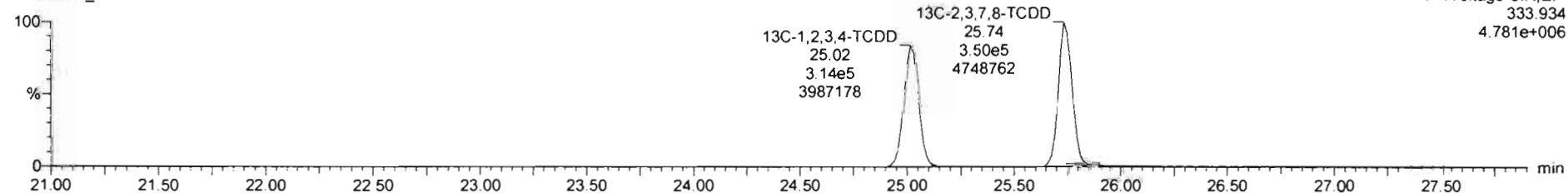


13C-1,2,3,4-TCDD

200315R2_7



200315R2_7



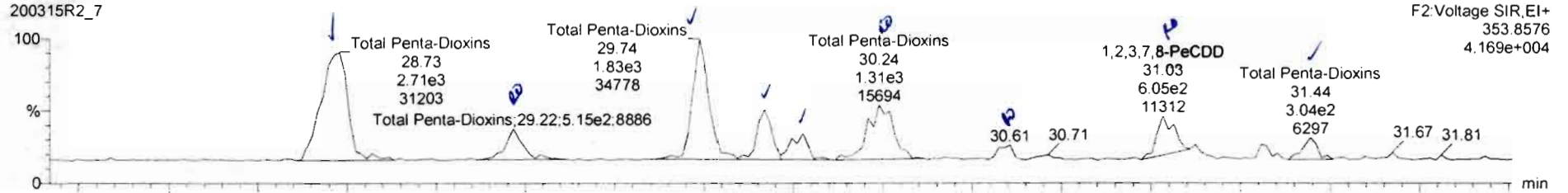
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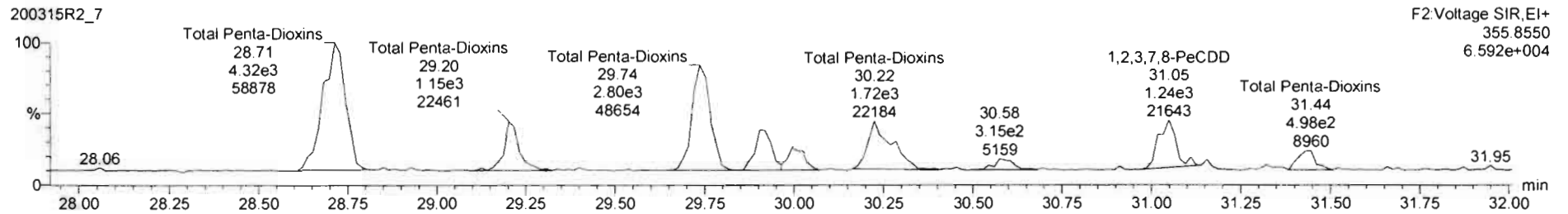
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1,2,3,7,8-PeCDD

200315R2_7

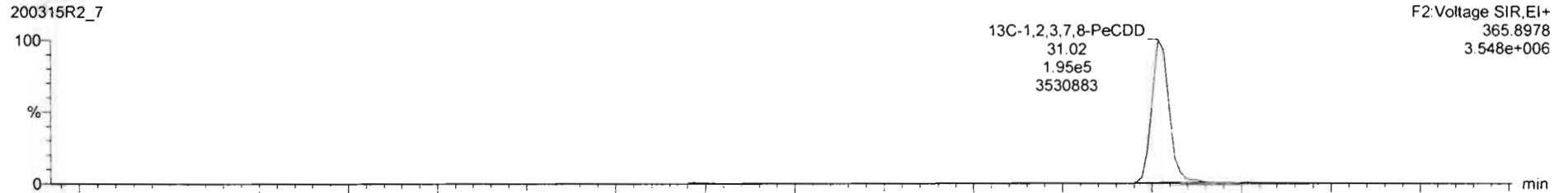


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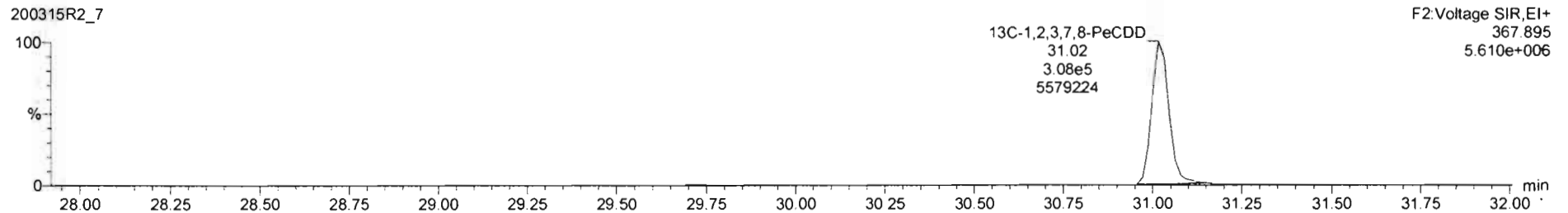


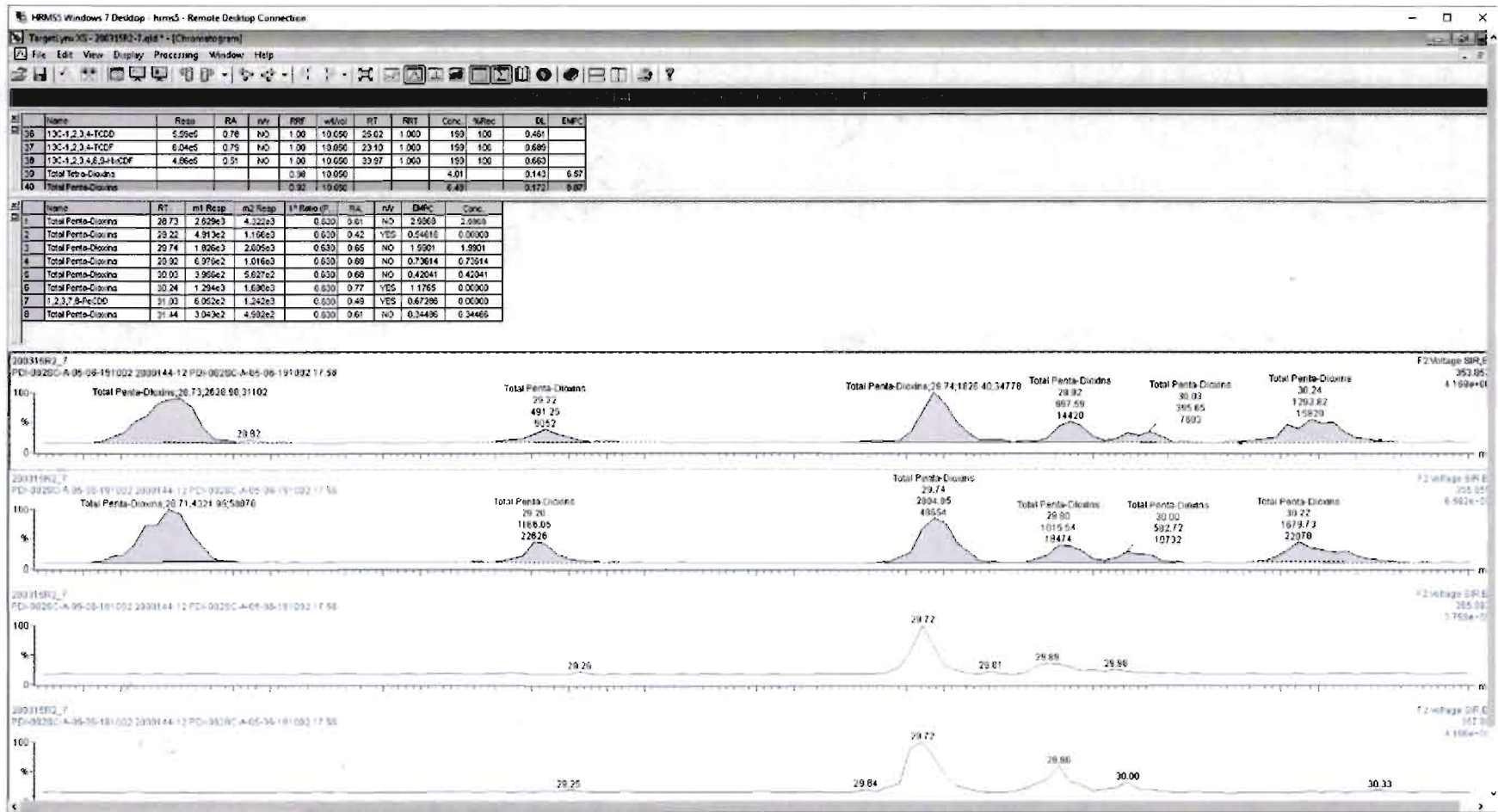
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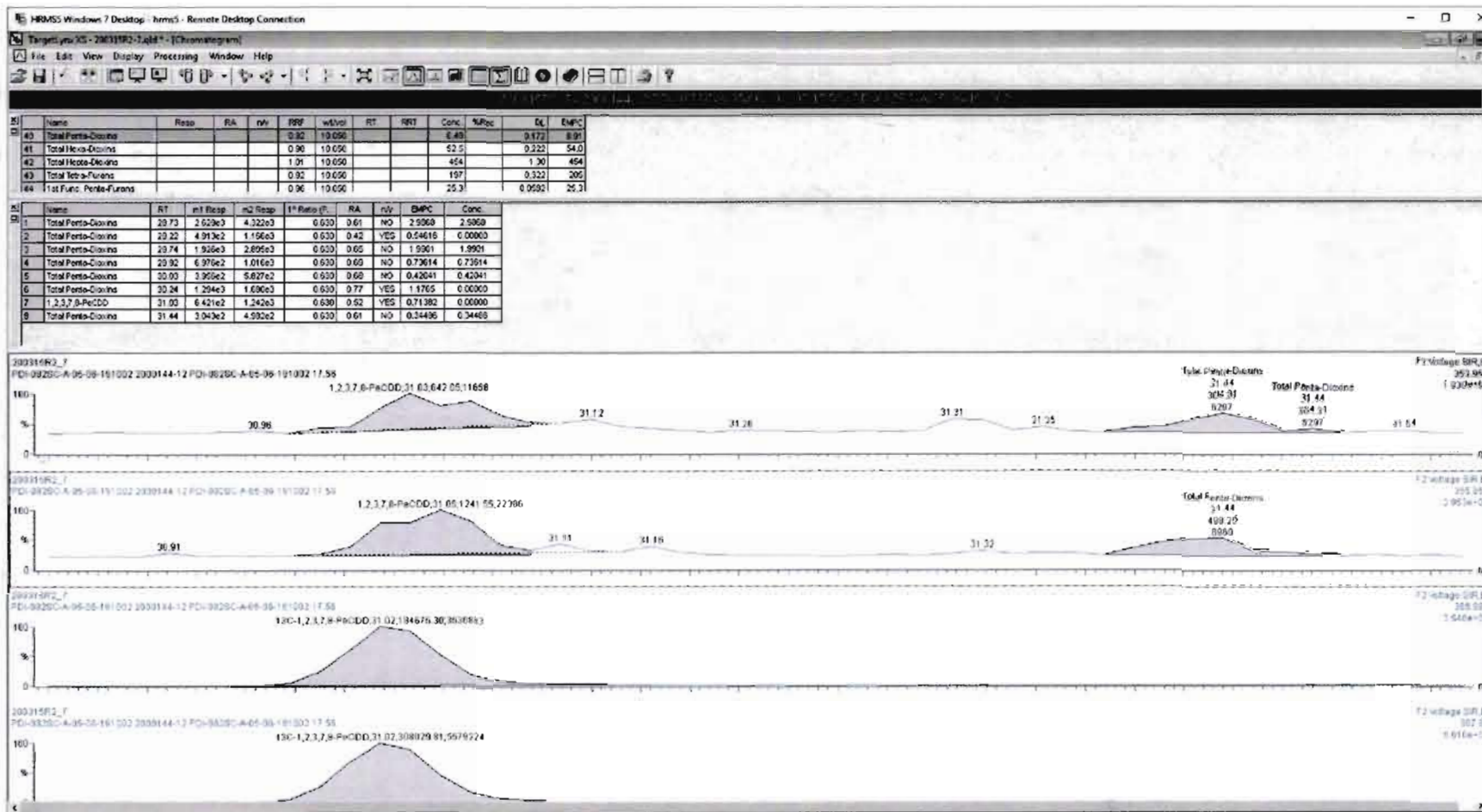
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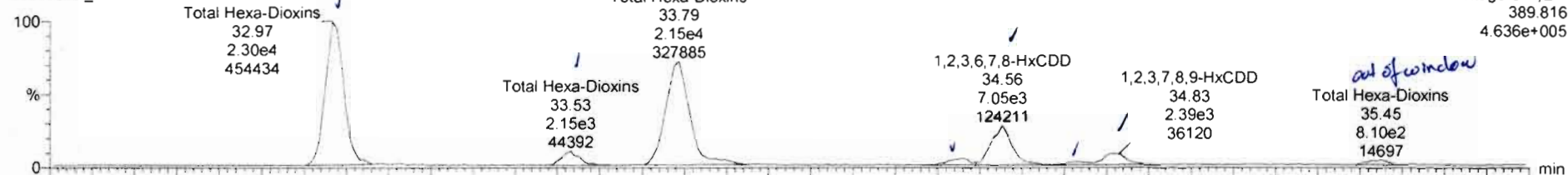
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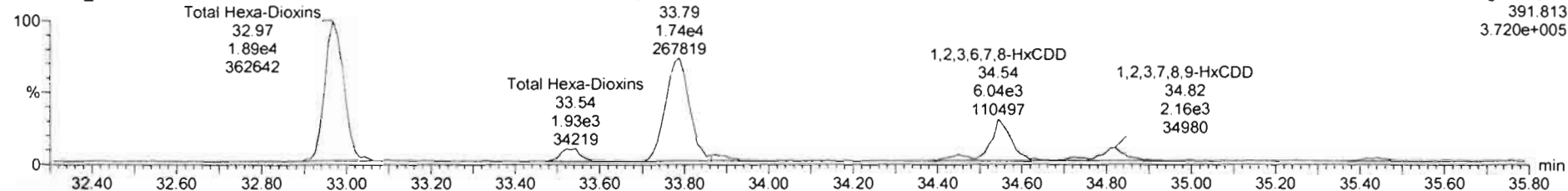
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1,2,3,4,7,8-HxCDD

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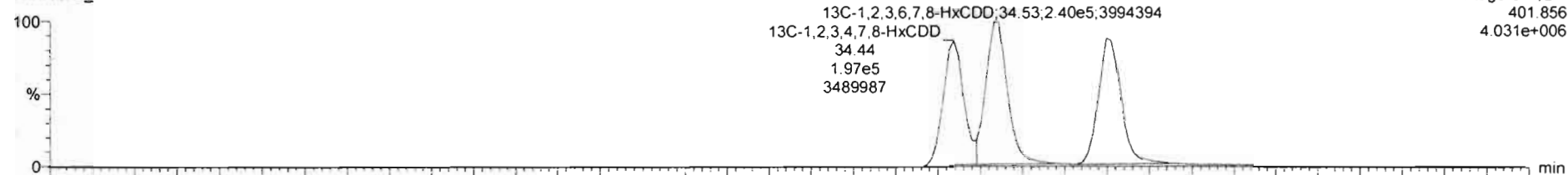


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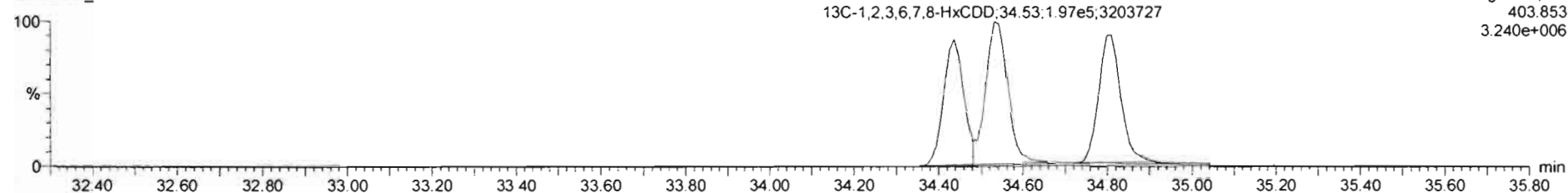


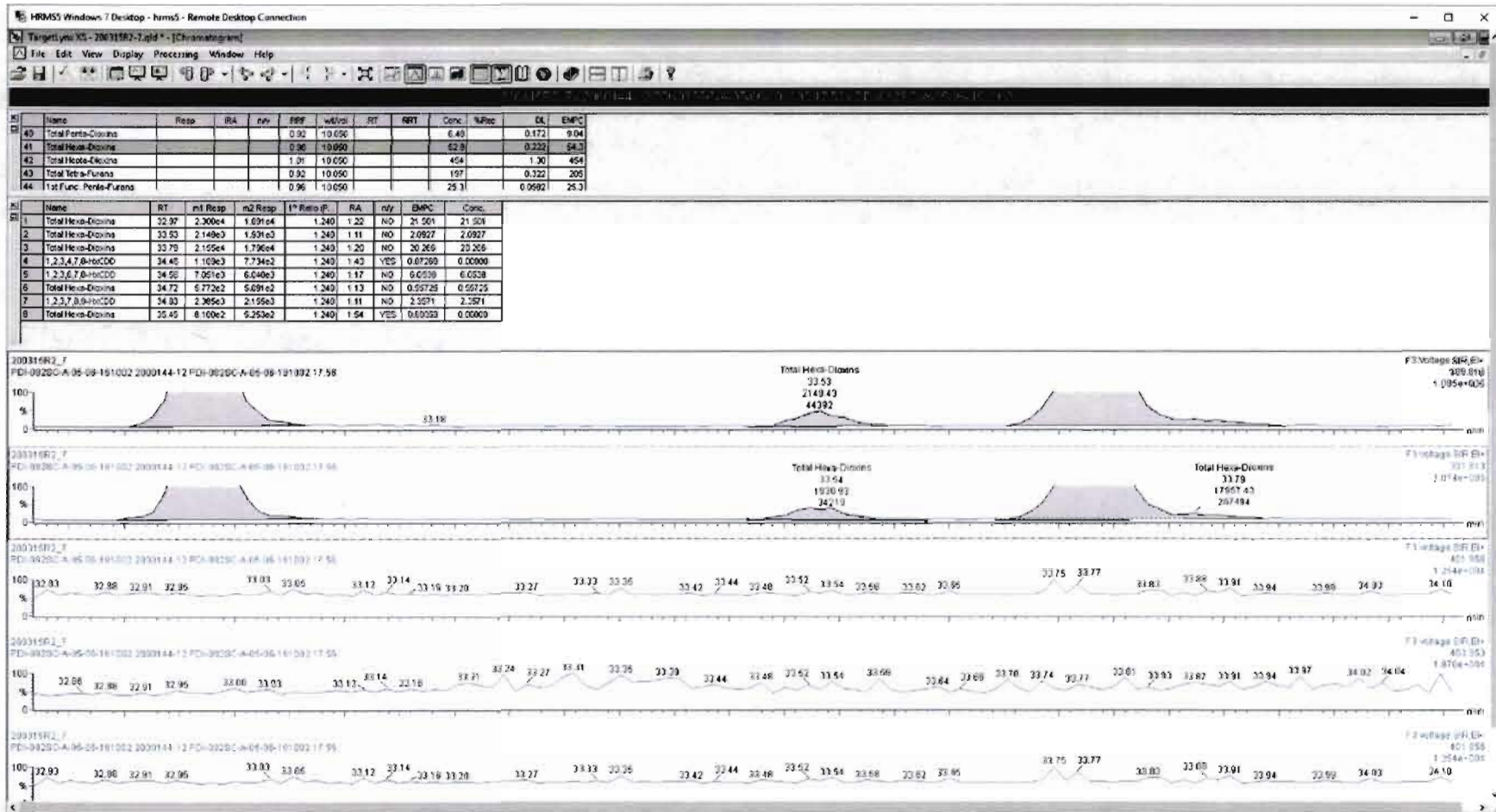
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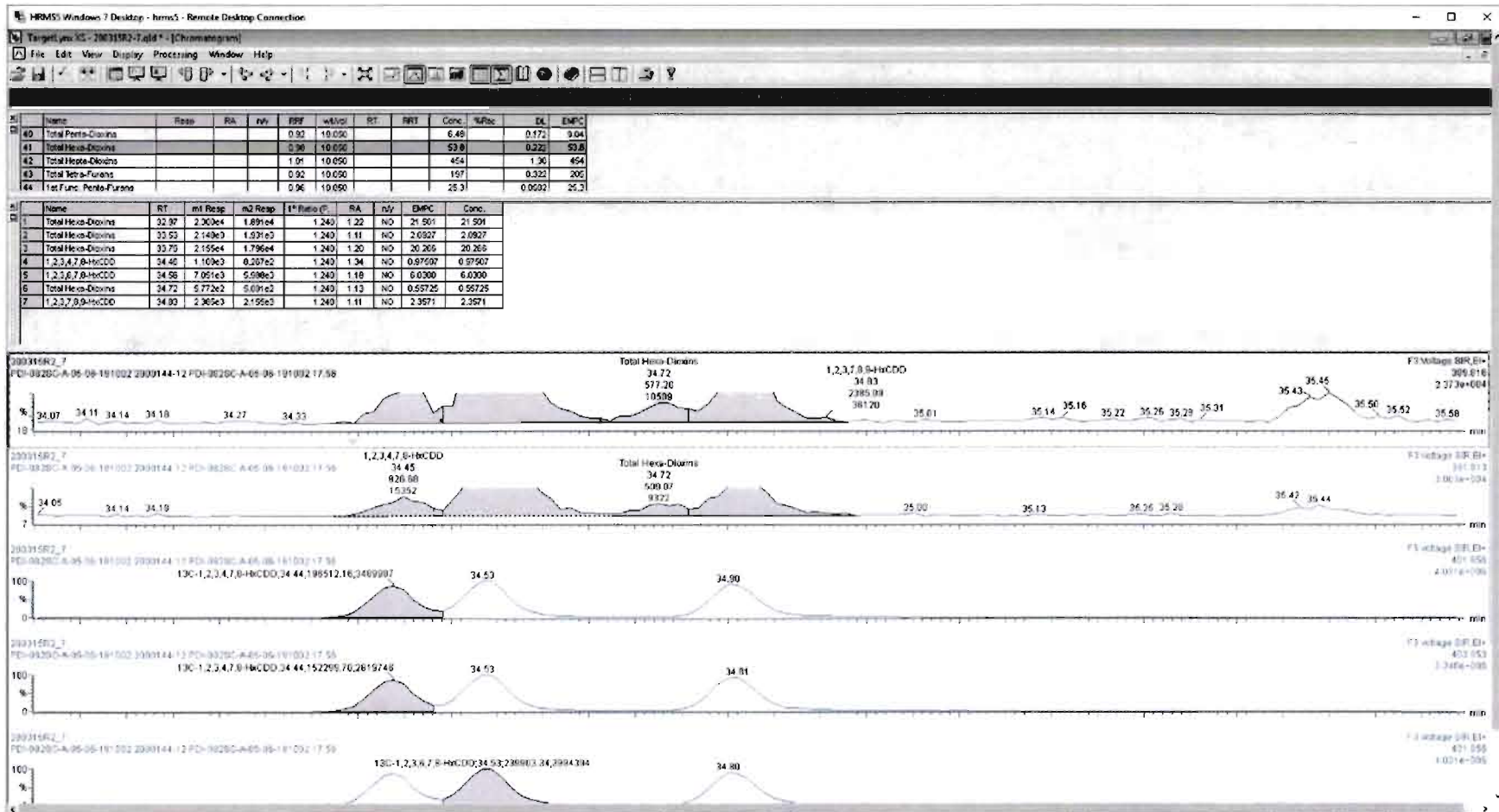
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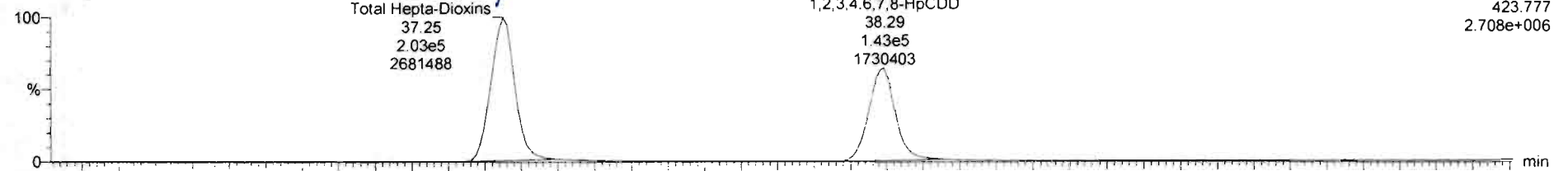
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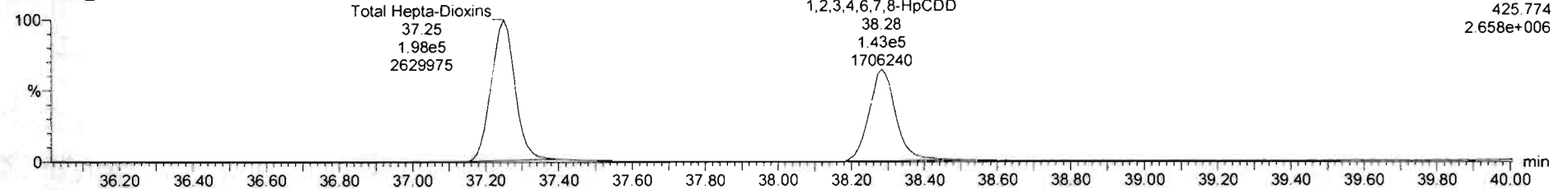
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1,2,3,4,6,7,8-HpCDD

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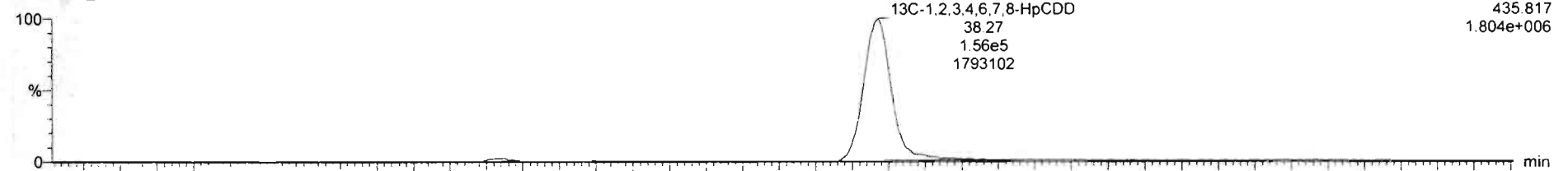


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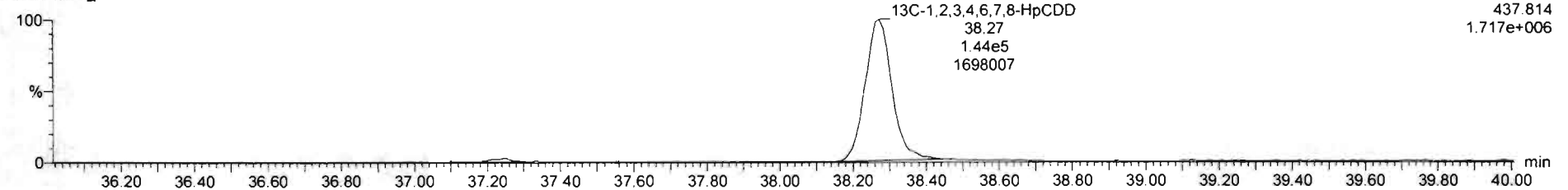


13C-1,2,3,4,6,7,8-HpCDD

200315R2_7



200315R2_7

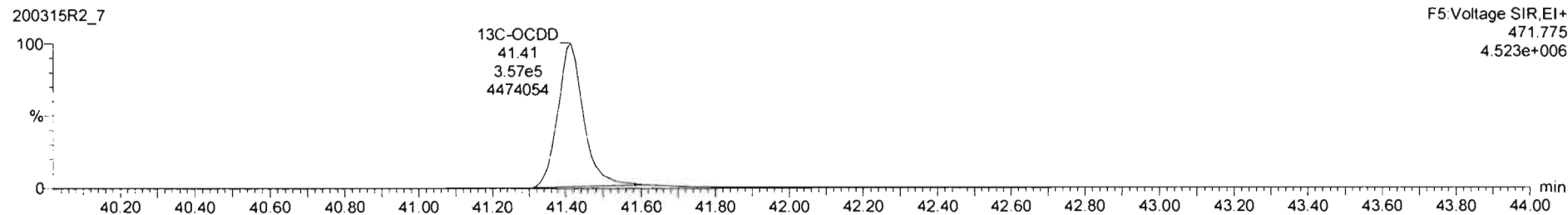
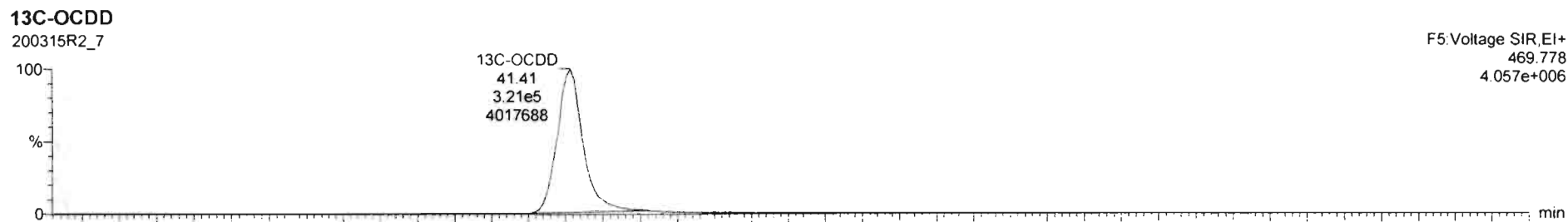
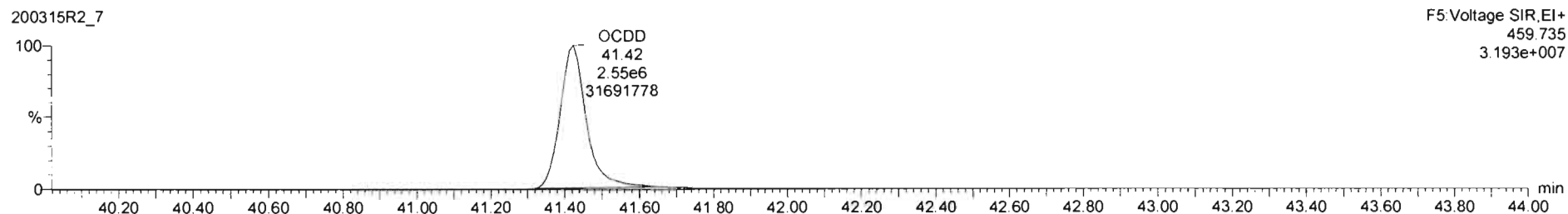
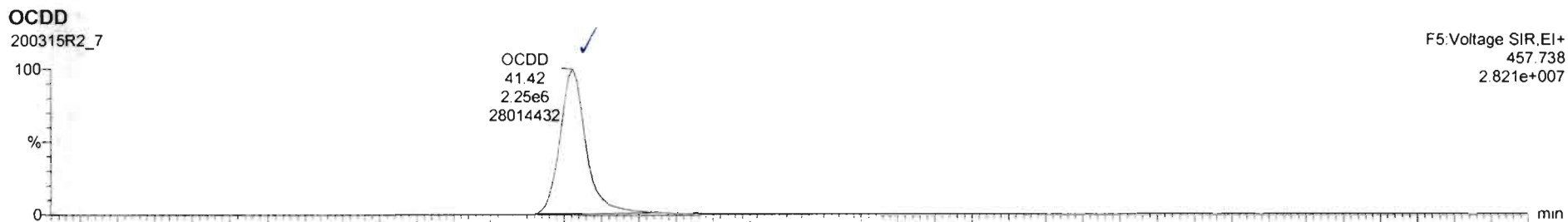


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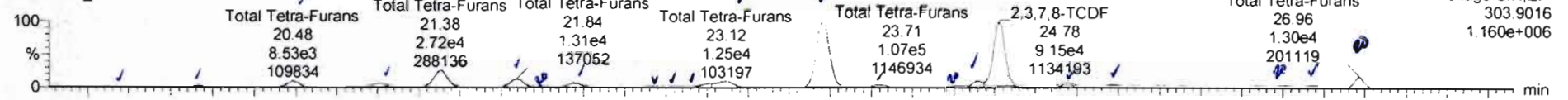
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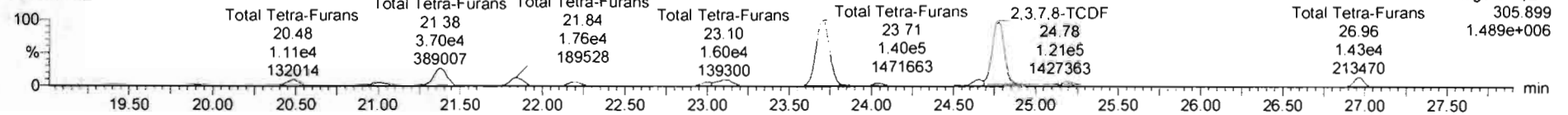
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2,3,7,8-TCDF

200315R2_7

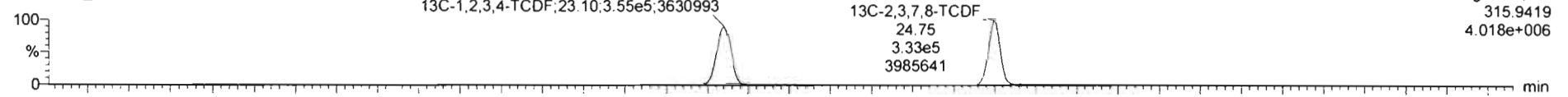


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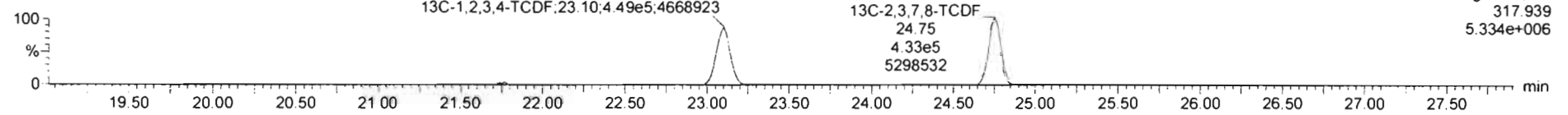


13C-2,3,7,8-TCDF

200315R2_7

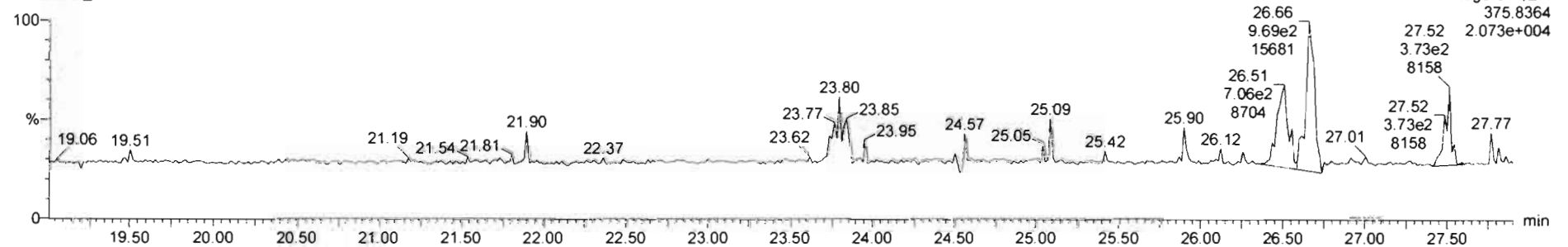


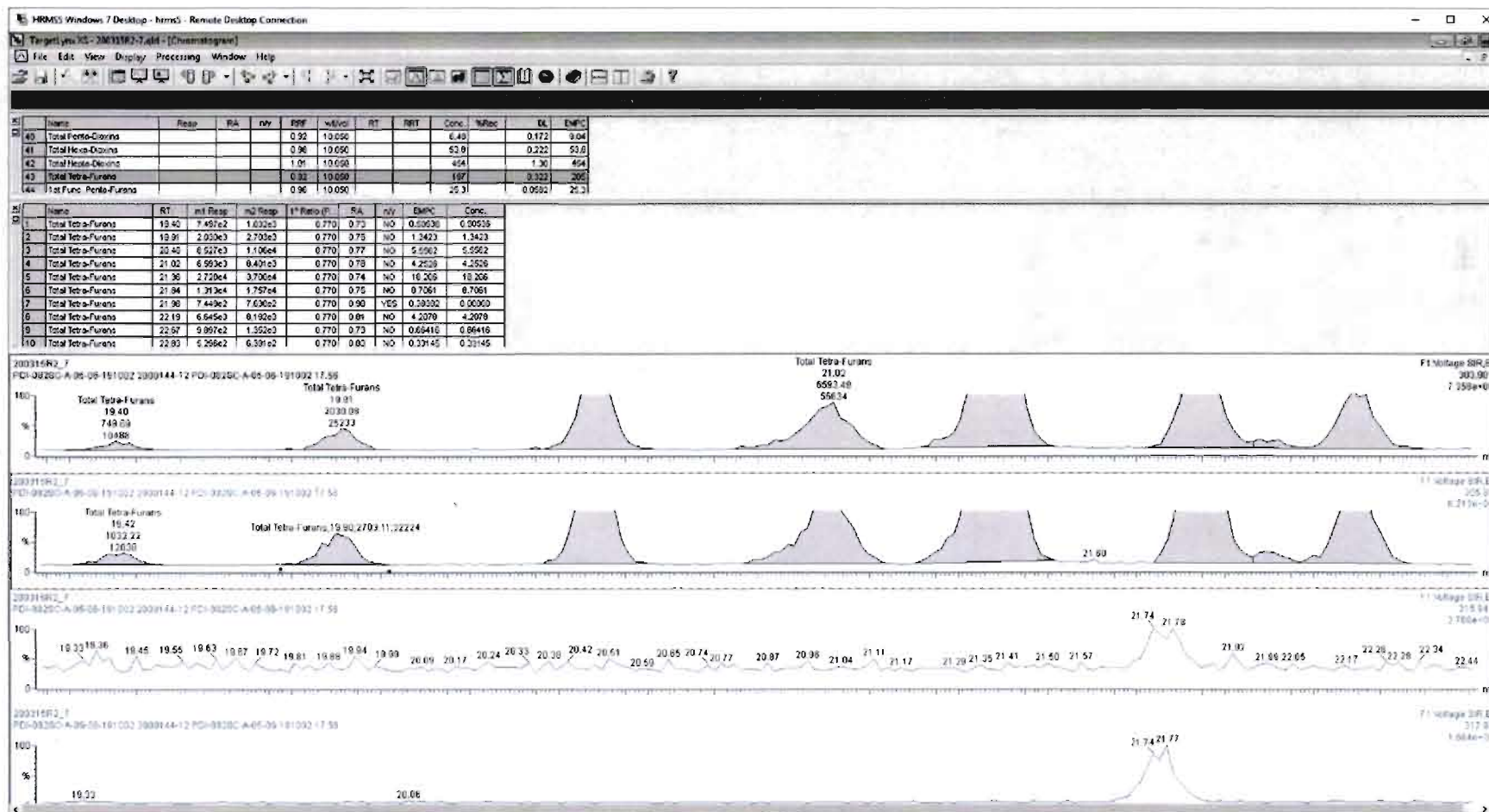
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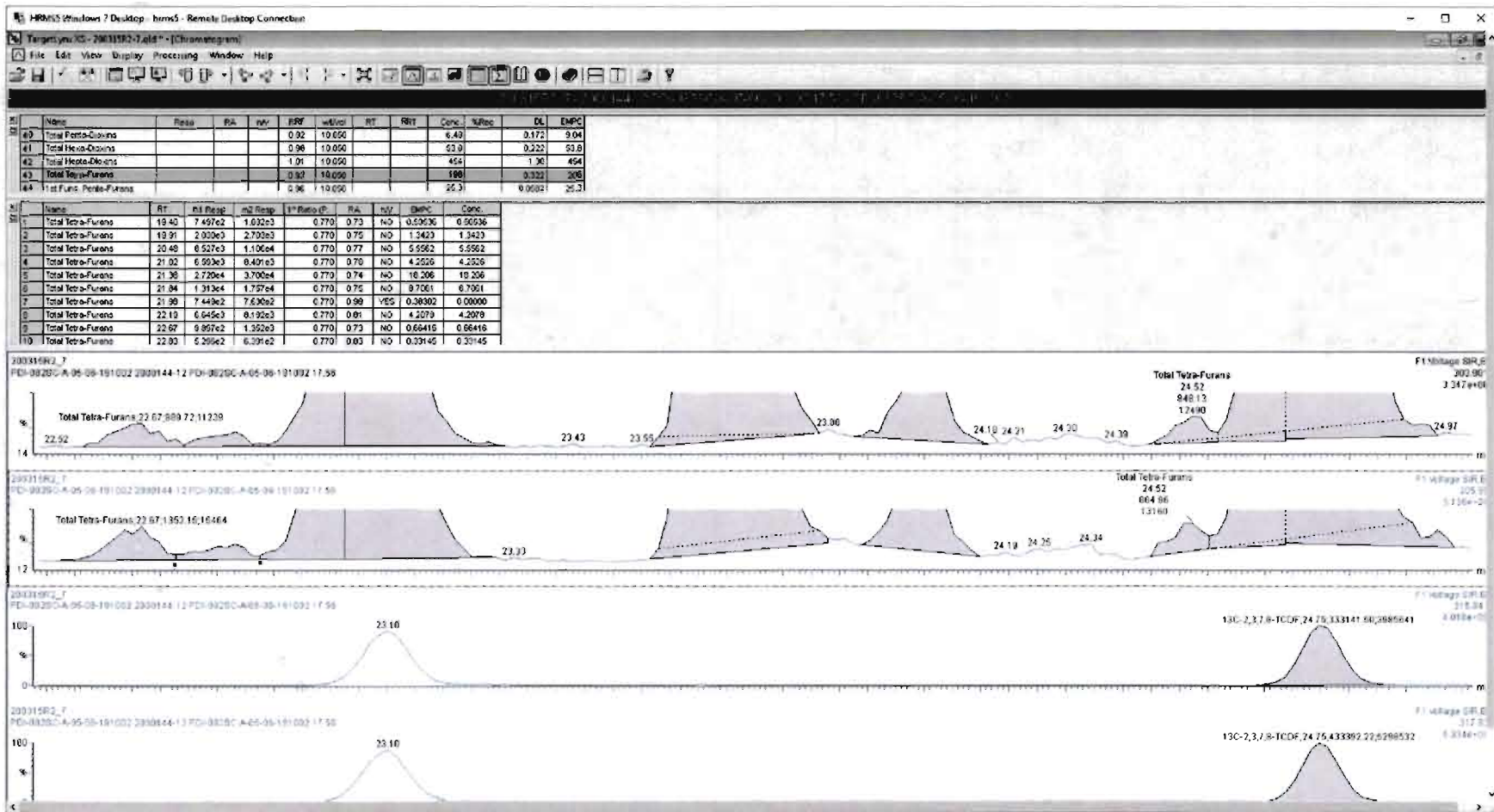


DPE1

200315R2_7







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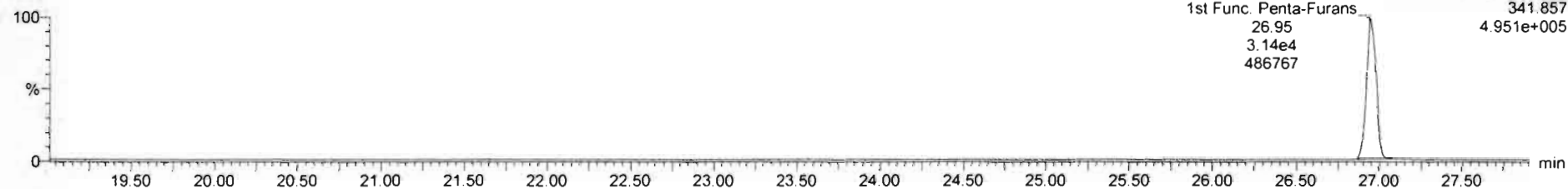
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1st Func. Penta-Furans

200315R2_7

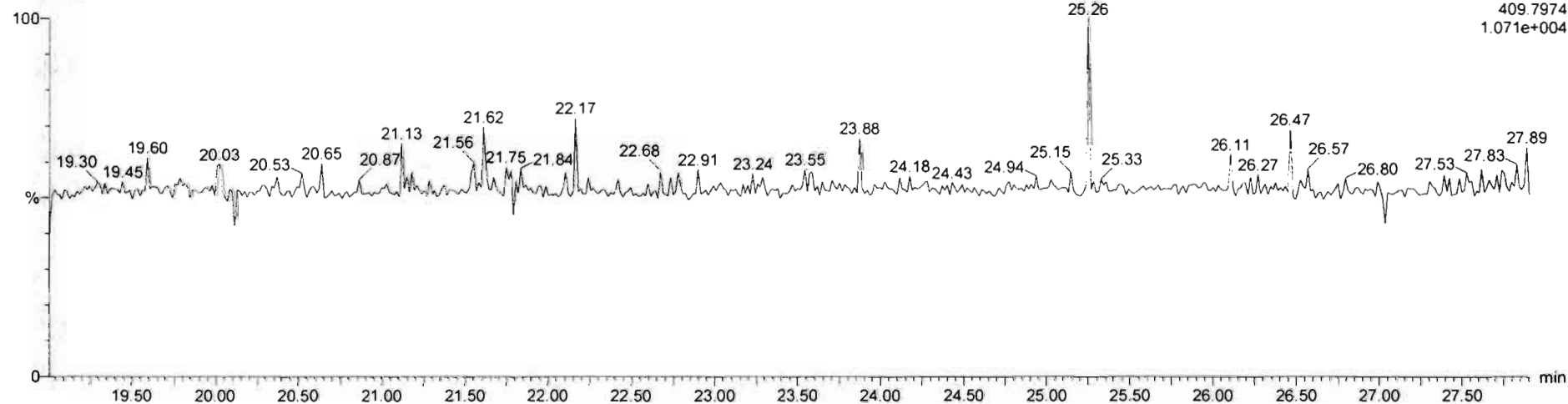


200315R2_7



DPE6

200315R2_7



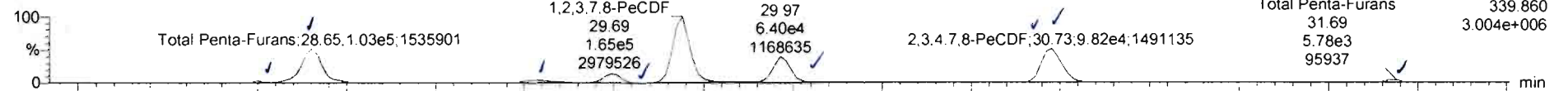
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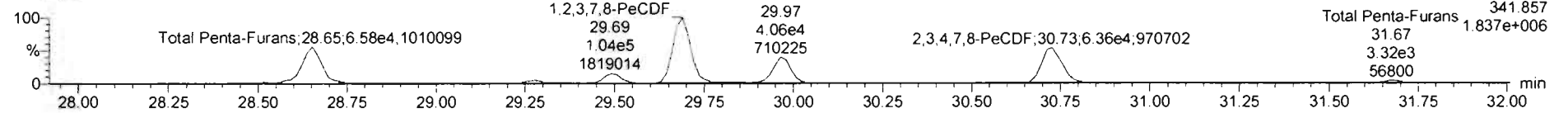
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1,2,3,7,8-PeCDF

200315R2_7

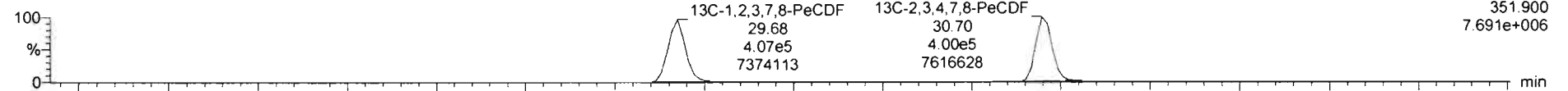


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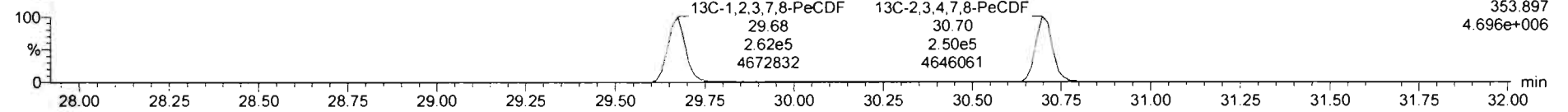


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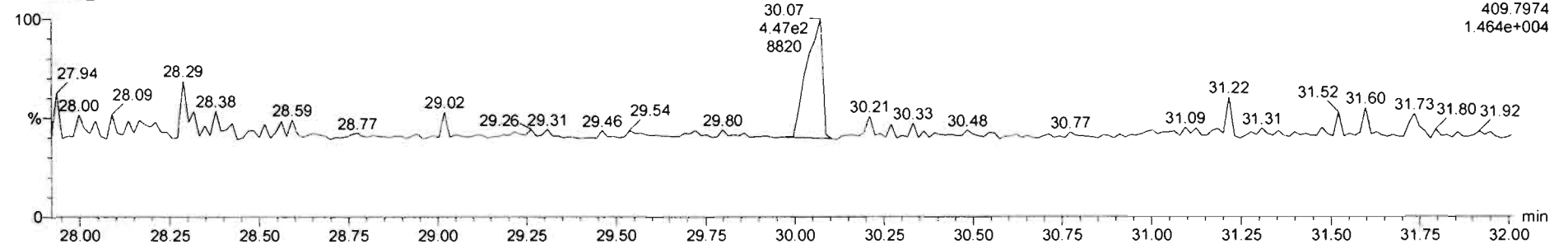


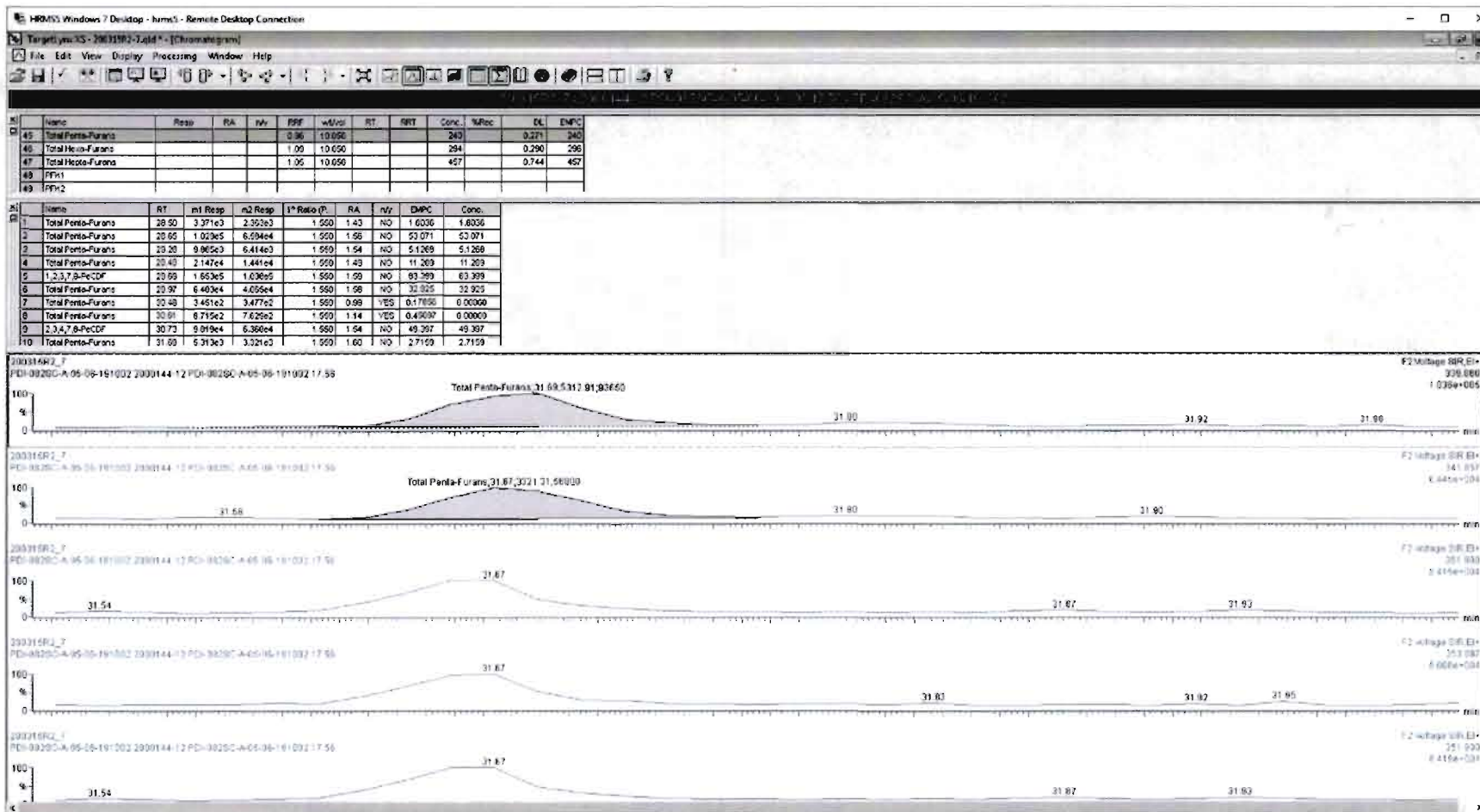
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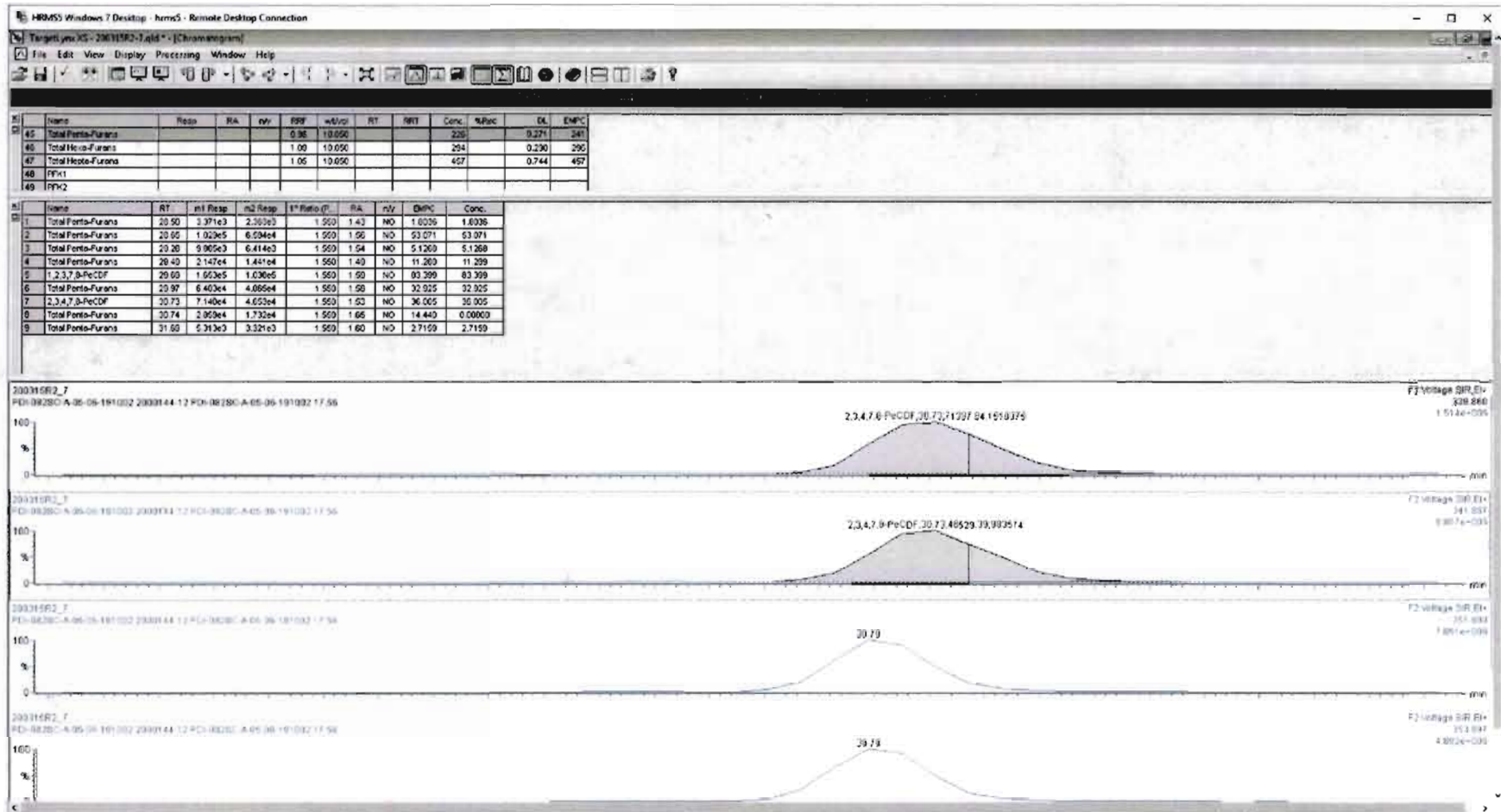


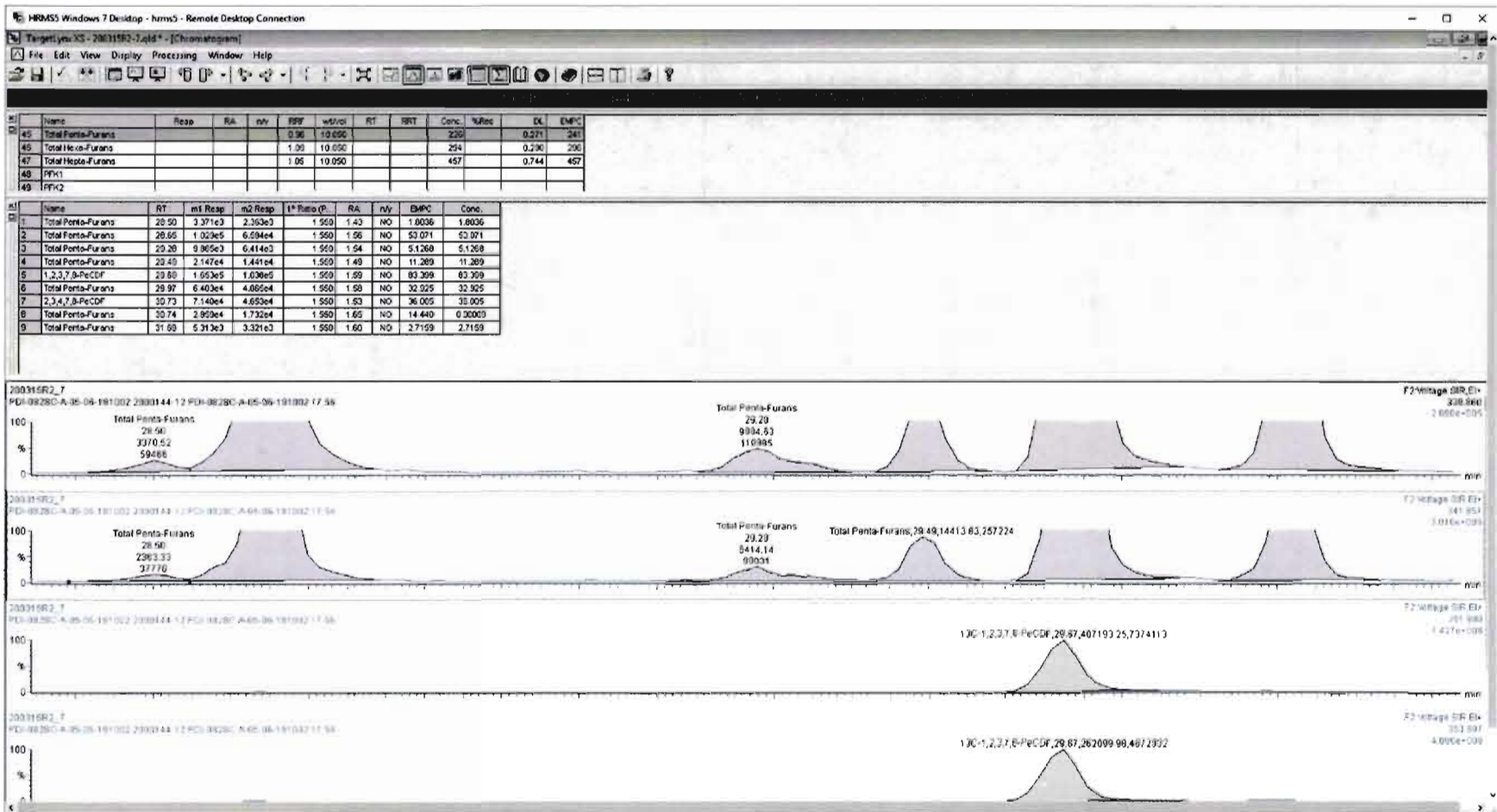
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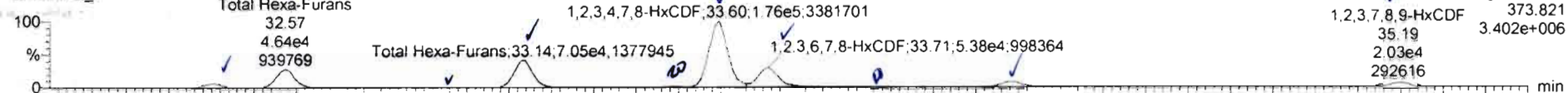
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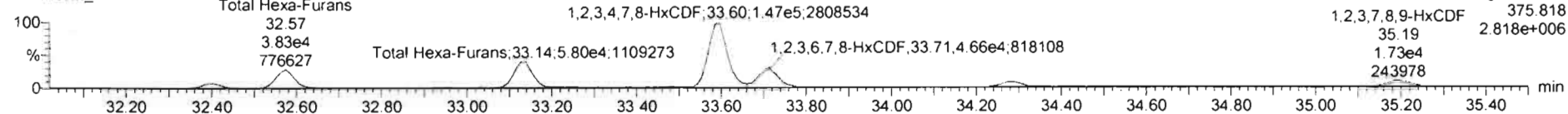
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1,2,3,4,7,8-HxCDF

200315R2_7

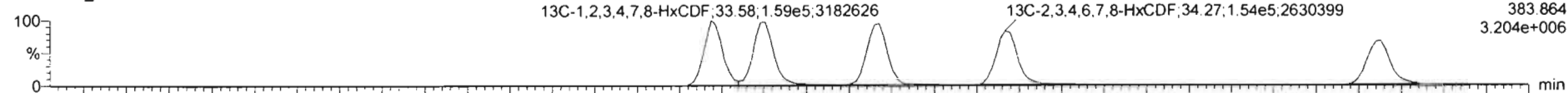


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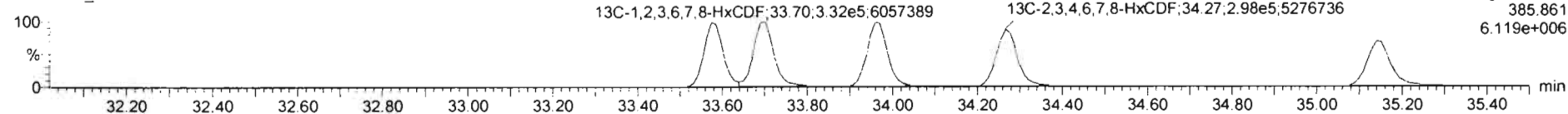


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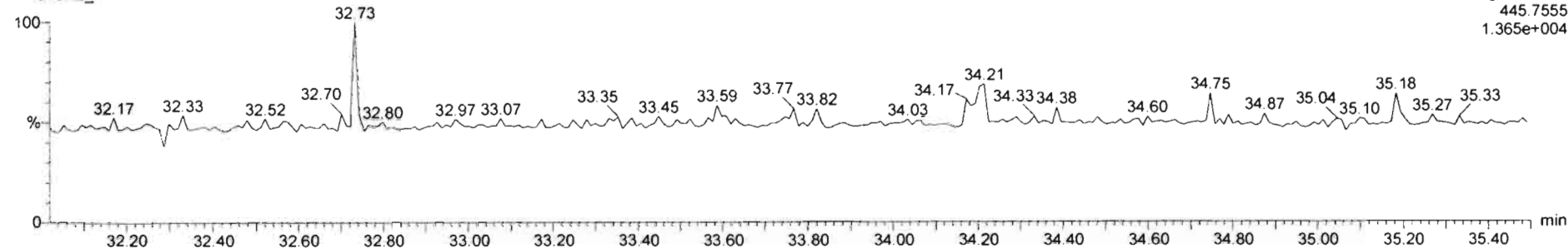


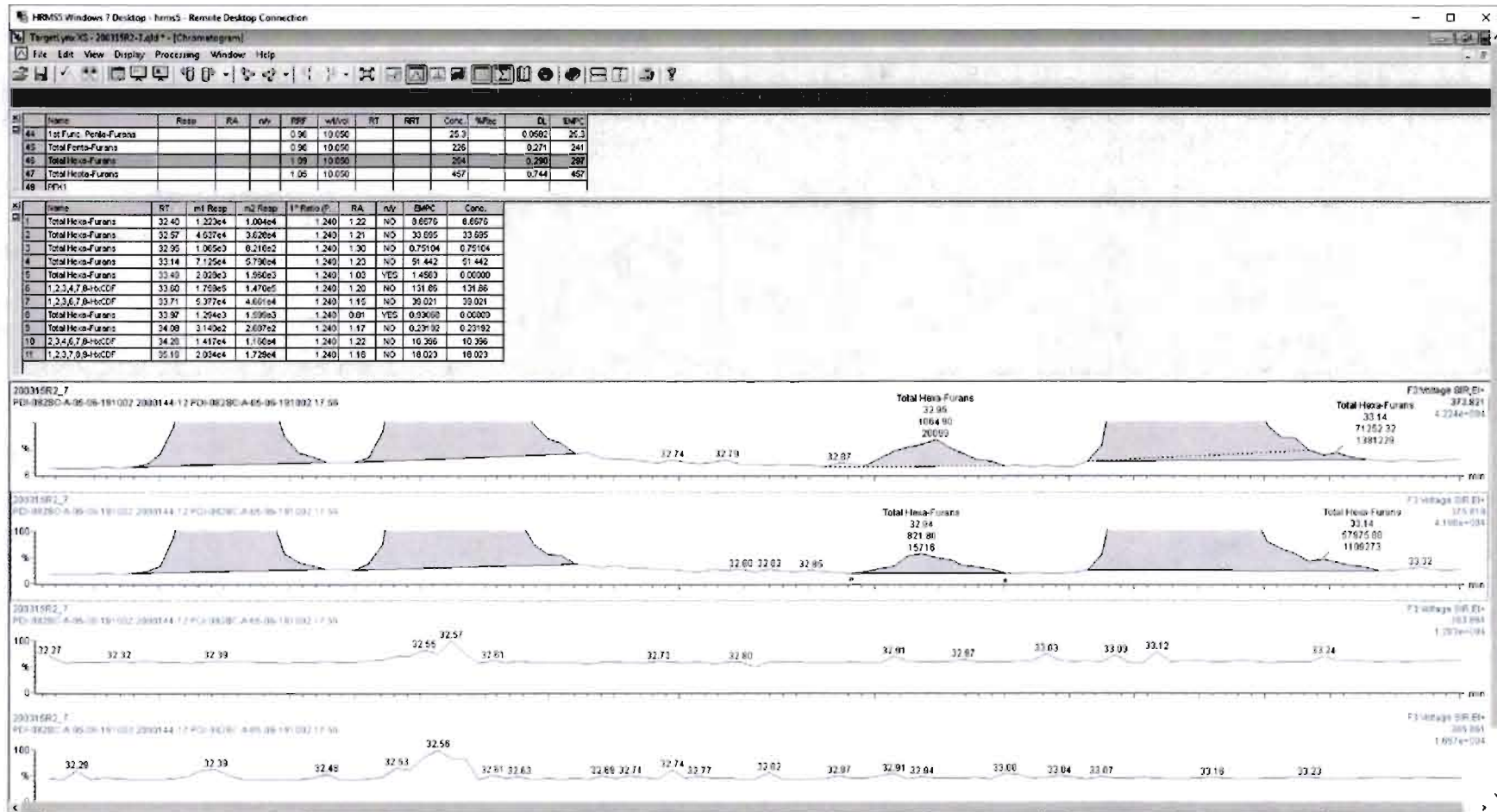
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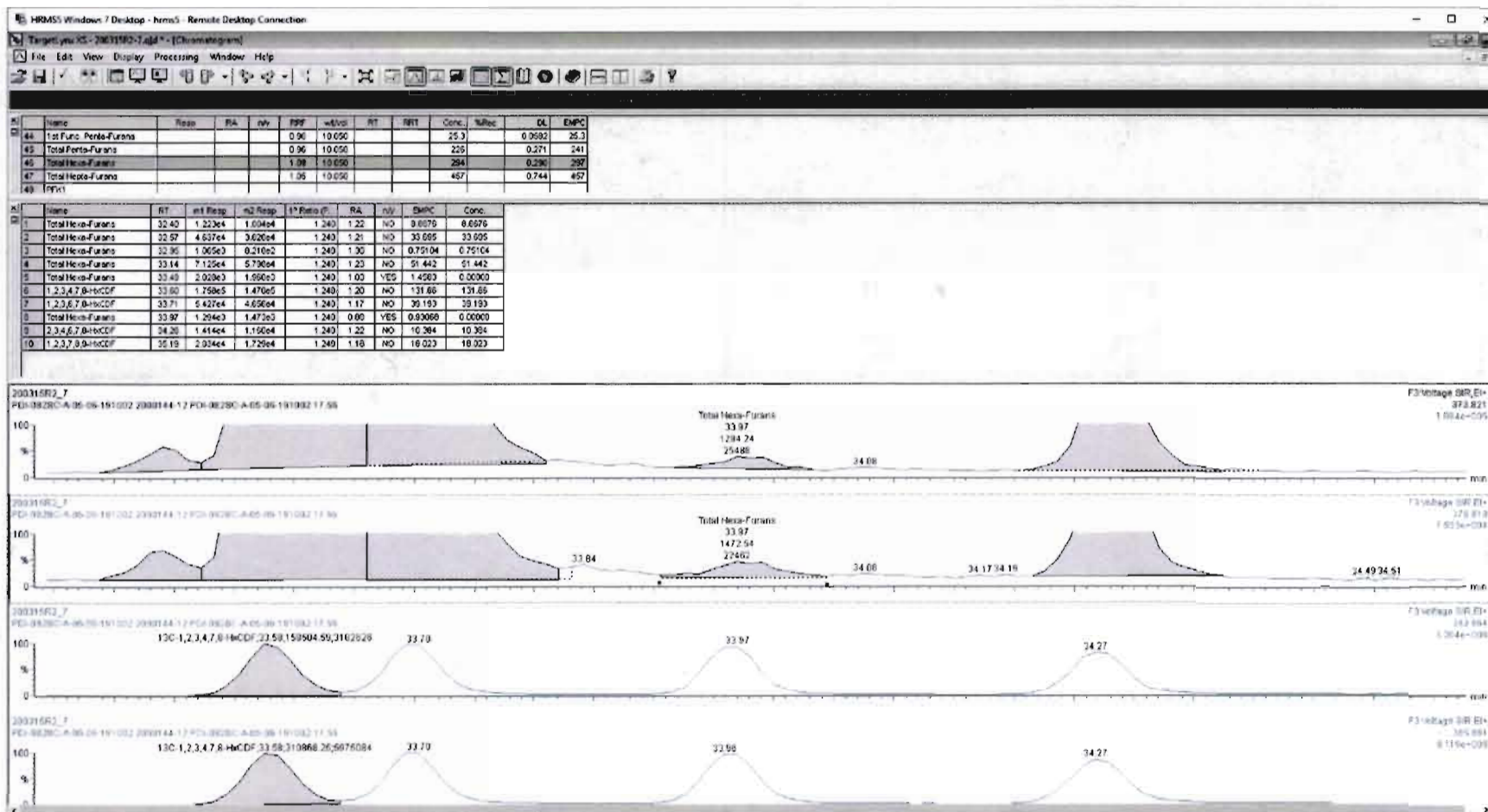


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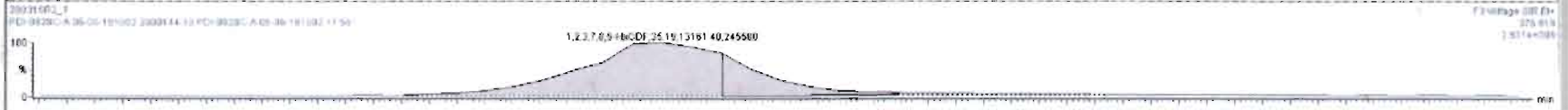
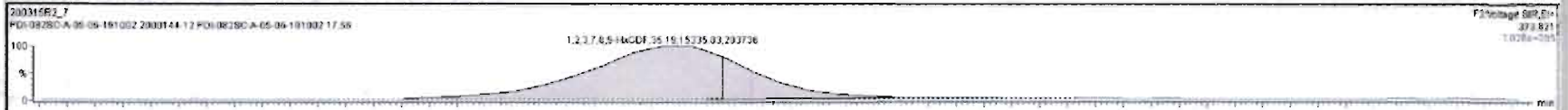






#	Name	Resp	RA	n/y	RF	adjRF	RT	RET	Conc.	%Rec	DL	EMPC
44	1st Func. Penta-Furans				0.96	10.650			25.3		0.2682	25.3
45	Total Penta-Furans				0.96	10.650			226		0.271	241
46	Total Hexa-Furans				1.02	10.650			253		3.256	296
47	Total Hepta-Furans				1.05	10.650			427		0.744	457
48	PFH1											

#	Name	RT	m1 Resp	m2 Resp	1 st Ratio (%)	RA	n/y	EMPC	Conc.
1	Total Hexa-Furans	32.40	1.223e4	1.024e4	1.240	1.22	NO	0.8676	0.8676
2	Total Hexa-Furans	32.67	4.637e4	3.628e4	1.240	1.21	NO	33.695	33.695
3	Total Hexa-Furans	32.95	1.065e3	8.218e2	1.240	1.30	NO	0.75104	0.75104
4	Total Hexa-Furans	33.14	7.125e4	5.796e4	1.240	1.23	NO	51.442	51.442
5	Total Hexa-Furans	33.40	2.029e3	1.666e3	1.240	1.03	YES	1.4563	0.00000
6	1,2,3,4,7,8-HxCDF	33.60	1.759e5	1.476e5	1.240	1.20	NO	131.65	131.65
7	1,2,3,6,7,8-HxCDF	35.71	5.427e4	4.656e4	1.240	1.17	NO	39.183	39.183
8	Total Hexa-Furans	33.97	1.294e3	1.472e3	1.240	0.88	YES	0.93088	0.00000
9	2,3,4,6,7,8-HxCDF	34.26	1.414e4	1.160e4	1.240	1.22	NO	10.364	10.364
10	1,2,3,7,8-HxCDF	35.19	1.534e4	1.316e4	1.240	1.17	NO	13.650	13.650
11	Total Hexa-Furans	35.22	4.996e3	3.693e3	1.240	1.13	NO	3.3751	3.3751



Dataset: Untitled

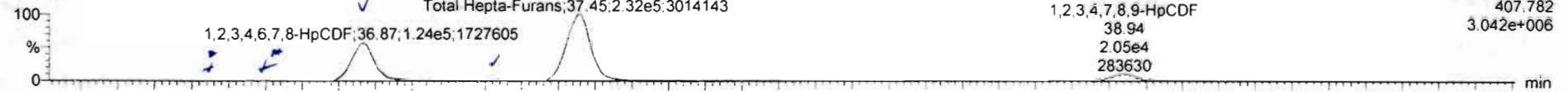
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Name: 200315R2_7, Date: 16-Mar-2020, Time: 04:45:07, ID: 2000144-12 PDI-082SC-A-05-06-191002 17.56, Description: PDI-082SC-A-05-06-191002

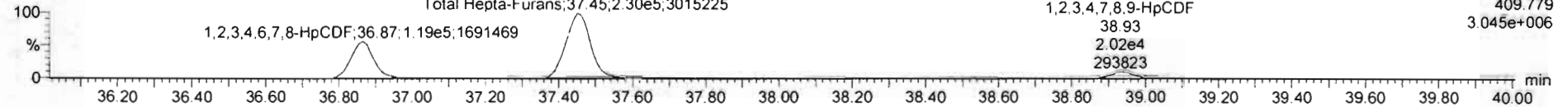
** BL 03/16/2020*

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

200315R2_7

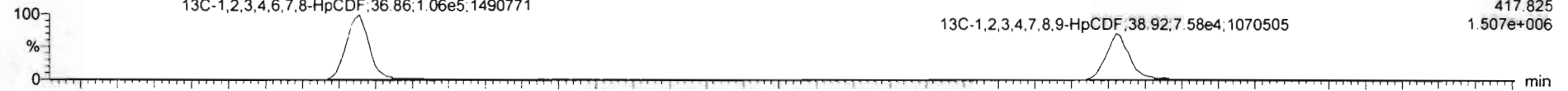


200315R2_7

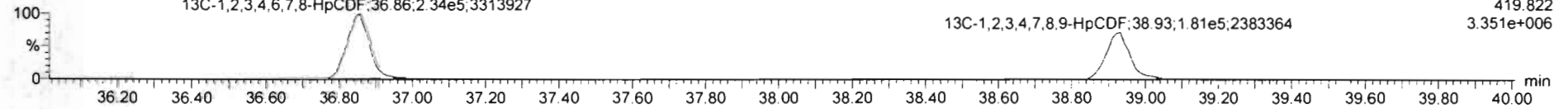


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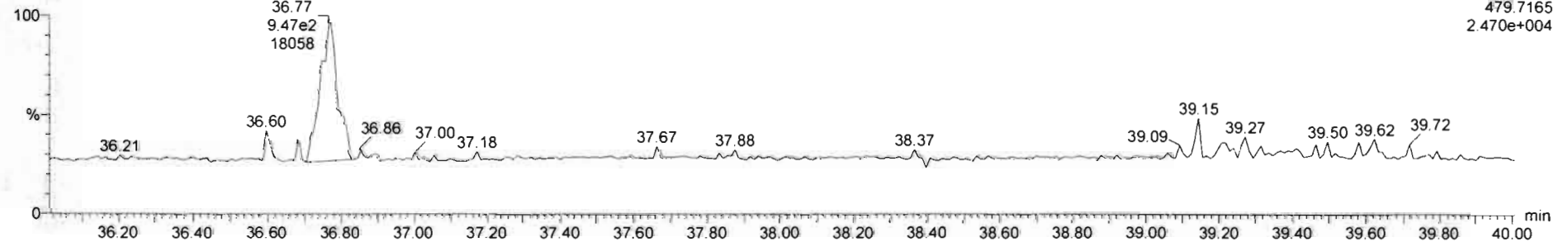


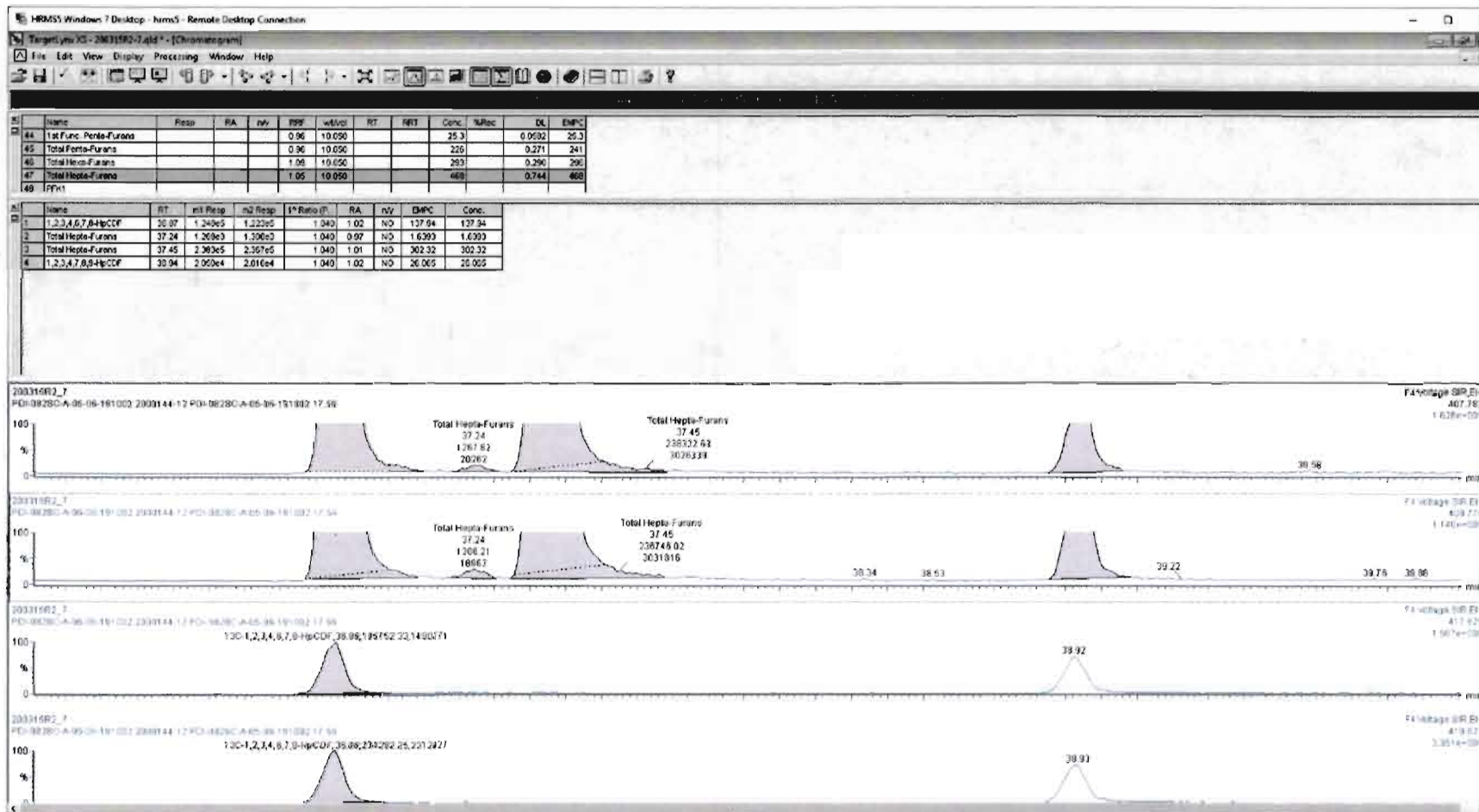
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200315R2_7

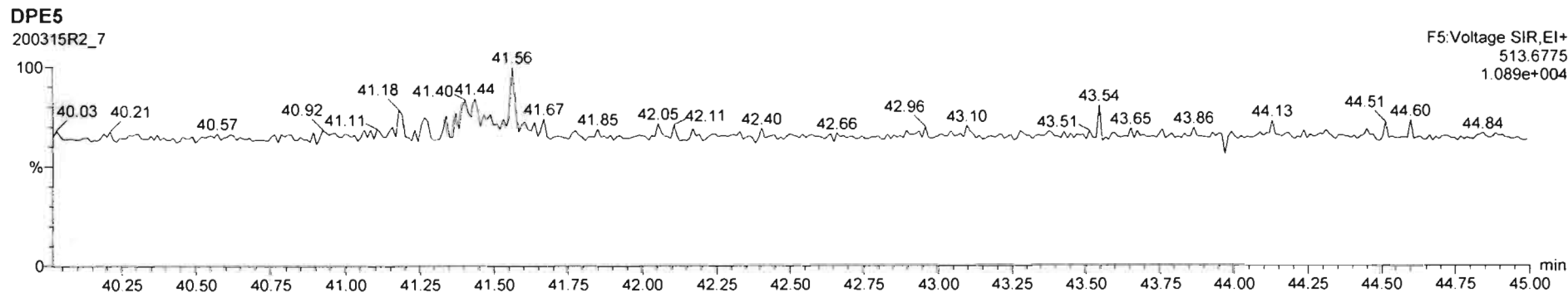
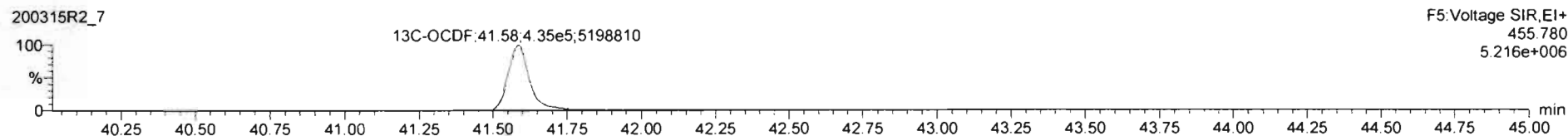
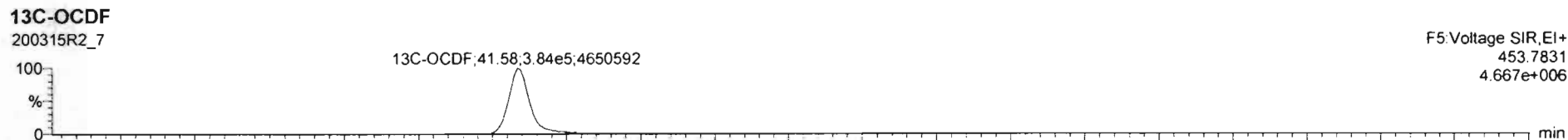
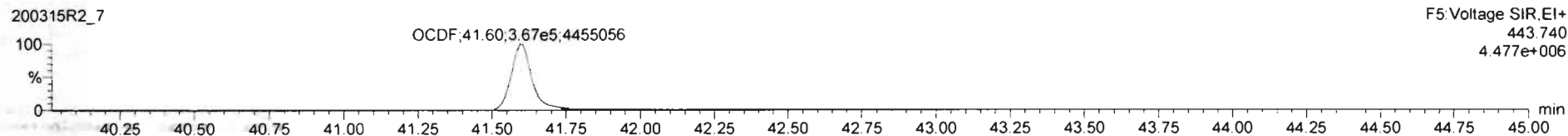
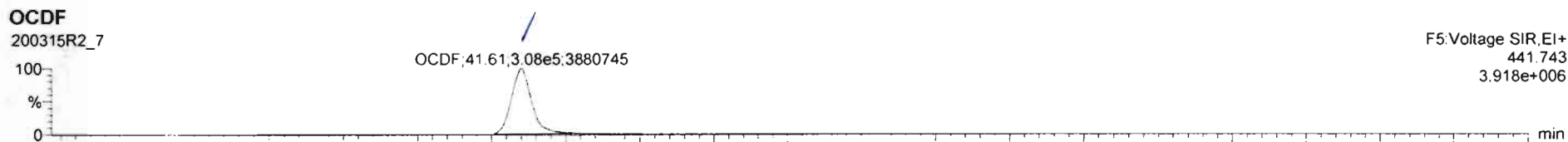




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Printed: Monday, March 16, 2020 08:51:00 Pacific Daylight Time

Name: 200315R2_7, Date: 16-Mar-2020, Time: 04:45:07, ID: 2000144-12 PDI-082SC-A-05-06-191002 17.56, Description: PDI-082SC-A-05-06-191002

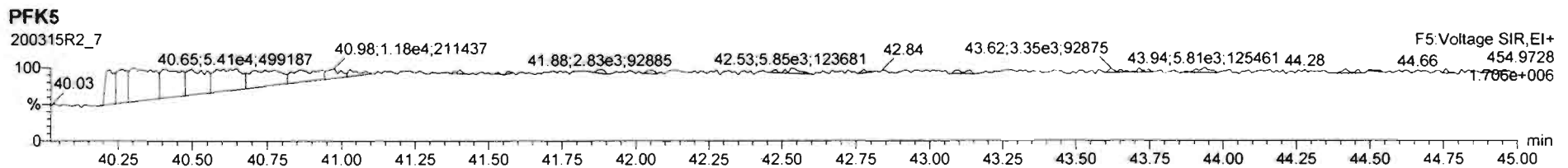
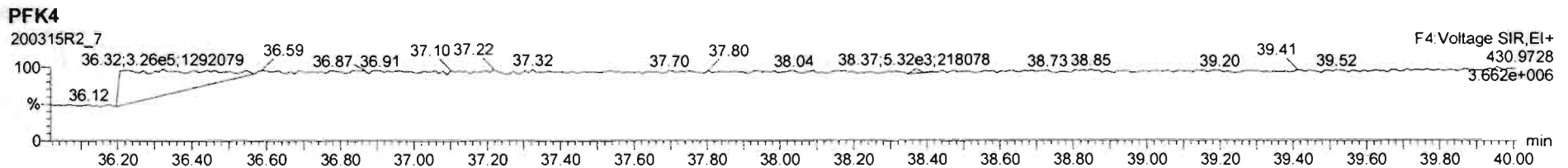
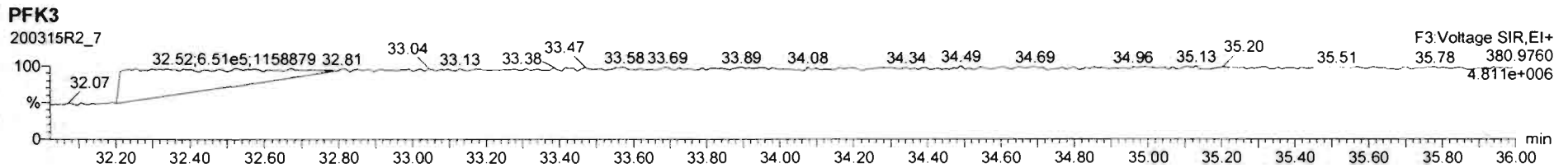
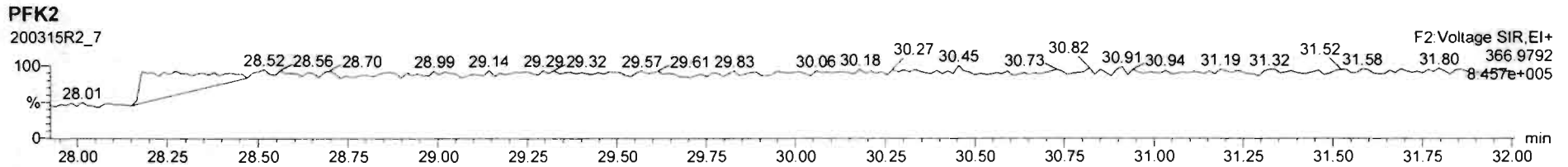
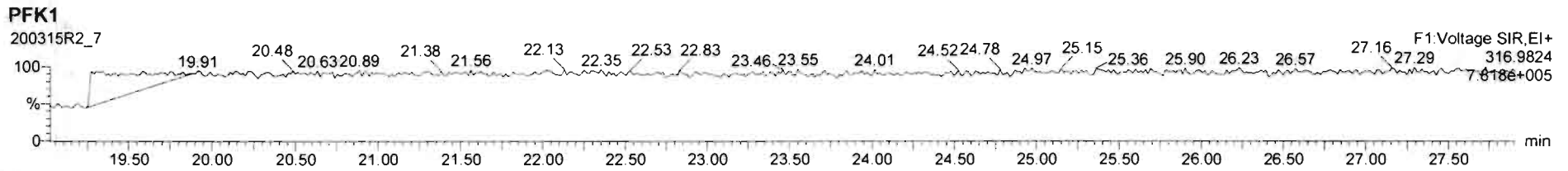


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Dataset: U:\VG12.PRO\Results\200315R2\200315R2-8B.qld

Last Altered: Thursday, March 26, 2020 10:45:54 Pacific Daylight Time

Printed: Thursday, March 26, 2020 10:50:04 Pacific Daylight Time

2003/26/2020

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

2003/26/2020

Name: 200315R2_8, Date: 16-Mar-2020, Time: 05:32:42, ID: 2000144-13 PDI-084SC-A-01-02-191002 20.48, Description: PDI-084SC-A-01-02-191002

#	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		5.42e5			10.05	25.77		1.00		NO			0.119	
2	2 1,2,3,7,8-PeCDD	4.30e2	4.23e5	0.670	NO	10.05	31.02	31.03	1.00	1.00	NO	0.21948		0.123	0.21948
3	3 1,2,3,4,7,8-HxCDD		2.91e5			10.05	34.44		1.00		NO			0.166	
4	4 1,2,3,6,7,8-HxCDD	2.73e3	3.68e5	1.379	NO	10.05	34.52	34.54	1.00	1.00	NO	1.4985		0.174	1.4985
5	5 1,2,3,7,8,9-HxCDD	1.10e3	3.32e5	1.176	NO	10.05	34.81	34.83	1.00	1.00	NO	0.68081		0.198	0.68081
6	6 1,2,3,4,6,7,8-HpCDD	3.71e4	2.76e5	1.006	NO	10.05	38.27	38.28	1.00	1.00	NO	26.569		0.478	26.569
7	7 OCDD	3.97e5	6.09e5	0.894	NO	10.05	41.41	41.42	1.00	1.00	NO	247.00		0.456	247.00
8	8 2,3,7,8-TCDF	2.08e4	6.87e5	0.710	NO	10.05	24.77	24.78	1.00	1.00	NO	6.5814	(5.40)	0.149	6.5814
9	9 1,2,3,7,8-PeCDF	2.75e4	5.74e5	1.542	NO	10.05	29.68	29.67	1.00	1.00	NO	9.9453		0.270	9.9453
10	10 2,3,4,7,8-PeCDF	1.22e4	5.60e5	1.491	NO	10.05	30.71	30.71	1.00	1.00	NO	4.3368		0.272	4.3368
11	11 1,2,3,4,7,8-HxCDF	4.40e4	3.87e5	1.225	NO	10.05	33.56	33.59	1.00	1.00	NO	21.797		0.168	21.797
12	12 1,2,3,6,7,8-HxCDF	1.02e4	4.15e5	1.107	NO	10.05	33.69	33.70	1.00	1.00	NO	4.8051		0.183	4.8051
13	13 2,3,4,6,7,8-HxCDF	2.32e3	3.89e5	1.151	NO	10.05	34.29	34.28	1.00	1.00	NO	1.0842		0.177	1.0842
14	14 1,2,3,7,8,9-HxCDF	1.05e3	3.46e5	0.927	YES	10.05	35.14	35.16	1.00	1.00	NO	0.58893		0.244	0.51167
15	15 1,2,3,4,6,7,8-HpCDF	1.48e4	3.06e5	1.015	NO	10.05	36.88	36.87	1.00	1.00	NO	9.2029		0.199	9.2029
16	16 1,2,3,4,7,8,9-HpCDF	4.54e3	2.20e5	0.973	NO	10.05	38.91	38.91	1.00	1.00	NO	3.3983		0.258	3.3983
17	17 OCDF	3.22e4	7.00e5	0.831	NO	10.05	41.60	41.60	1.00	1.00	NO	19.340		0.217	19.340
18	18 13C-2,3,7,8-TCDD	5.42e5	4.69e5	0.774	NO	10.05	25.75	25.74	1.03	1.03	NO	194.10	97.6	0.445	
19	19 13C-1,2,3,7,8-PeCDD	4.23e5	4.69e5	0.642	NO	10.05	30.94	31.00	1.24	1.24	NO	207.45	104.3	0.445	
20	20 13C-1,2,3,4,7,8-HxCDD	2.91e5	4.19e5	1.245	NO	10.05	34.42	34.43	1.01	1.01	NO	183.05	92.0	0.640	
21	21 13C-1,2,3,6,7,8-HxCDD	3.68e5	4.19e5	1.230	NO	10.05	34.53	34.52	1.02	1.02	NO	188.48	94.7	0.521	
22	22 13C-1,2,3,7,8,9-HxCDD	3.32e5	4.19e5	1.287	NO	10.05	34.79	34.80	1.02	1.03	NO	189.71	95.4	0.581	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.76e5	4.19e5	1.023	NO	10.05	38.25	38.26	1.13	1.13	NO	218.68	109.9	1.005	
24	24 13C-OCDD	6.09e5	4.19e5	0.894	NO	10.05	41.39	41.41	1.22	1.22	NO	505.33	127.0	1.152	
25	25 13C-2,3,7,8-TCDF	6.87e5	6.77e5	0.766	NO	10.05	24.77	24.75	0.99	0.99	NO	185.10	93.1	0.515	
26	26 13C-1,2,3,7,8-PeCDF	5.74e5	6.77e5	1.590	NO	10.05	29.61	29.66	1.18	1.18	NO	192.41	96.7	0.813	
27	27 13C-2,3,4,7,8-PeCDF	5.60e5	6.77e5	1.564	NO	10.05	30.62	30.68	1.22	1.23	NO	194.79	97.9	0.844	
28	28 13C-1,2,3,4,7,8-HxCDF	3.87e5	4.19e5	0.506	NO	10.05	33.57	33.56	0.99	0.99	NO	183.33	92.2	0.983	
29	29 13C-1,2,3,6,7,8-HxCDF	4.15e5	4.19e5	0.520	NO	10.05	33.68	33.68	0.99	0.99	NO	176.29	88.6	0.880	
30	30 13C-2,3,4,6,7,8-HxCDF	3.89e5	4.19e5	0.515	NO	10.05	34.26	34.26	1.01	1.01	NO	178.21	89.6	0.950	
31	31 13C-1,2,3,7,8,9-HxCDF	3.46e5	4.19e5	0.500	NO	10.05	35.13	35.14	1.03	1.04	NO	187.94	94.5	1.126	
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.06e5	4.19e5	0.434	NO	10.05	36.84	36.85	1.09	1.09	NO	188.27	94.6	0.789	

Dataset: U:\VG12.PRO\Results\200315R2\200315R2-8B.qld

Last Altered: Thursday, March 26, 2020 10:45:54 Pacific Daylight Time

Printed: Thursday, March 26, 2020 10:50:04 Pacific Daylight Time

Name: 200315R2_8, Date: 16-Mar-2020, Time: 05:32:42, ID: 2000144-13 PDI-084SC-A-01-02-191002 20.48, Description: PDI-084SC-A-01-02-191002

#	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	2.20e5	4.19e5	0.437	NO	10.05	38.93	38.91	1.15	1.15	NO	200.54	100.8	1.171	
34	34 13C-OCDF	7.00e5	4.19e5	0.875	NO	10.05	41.57	41.60	1.22	1.23	NO	476.98	119.9	1.008	
35	35 37Cl-2,3,7,8-TCDD	2.07e5	4.69e5			10.05	25.76	25.76	1.03	1.03	NO	74.927	94.2	0.108	
36	36 13C-1,2,3,4-TCDD	4.69e5	4.69e5	0.787	NO	10.05	25.05	25.03	1.00	1.00	NO	198.93	100.0	0.527	
37	37 13C-1,2,3,4-TCDF	6.77e5	6.77e5	0.786	NO	10.05	23.19	23.12	1.00	1.00	NO	198.93	100.0	0.561	
38	38 13C-1,2,3,4,6,9-HxCDF	4.19e5	4.19e5	0.512	NO	10.05	33.88	33.95	1.00	1.00	NO	198.93	100.0	0.983	
39	39 Total Tetra-Dioxins		5.42e5			10.05	24.62		0.00		NO	0.00000		0.081	0.44926
40	40 Total Penta-Dioxins		4.23e5			10.05	29.96		0.00		NO	0.94180		0.123	1.5011
41	41 Total Hexa-Dioxins		0.00e0			10.05	33.63		0.00		NO	10.950		0.186	11.357
42	42 Total Hepta-Dioxins		2.76e5			10.05	37.64		0.00		NO	54.574		0.478	54.574
43	43 Total Tetra-Furans		6.87e5			10.05	23.61		0.00		NO	15.737		0.149	18.899
44	44 1st Func. Penta-Furans		0.00e0			10.05	27.09		0.00		NO	2.4734		0.054	2.4734
45	45 Total Penta-Furans		0.00e0			10.05	29.27		0.00		NO	22.038		0.277	25.234
46	46 Total Hexa-Furans		0.00e0			10.05	33.56		0.00		NO	37.078		0.182	37.590
47	47 Total Hepta-Furans		0.00e0			10.05	37.83		0.00		NO	24.106		0.240	24.106

Dataset: U:\VG12.PRO\Results\200315R2\200315R2-8B.qld

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Name: 200315R2_8, Date: 16-Mar-2020, Time: 05:32:42

Tetra-Dioxins

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	39 Total Tetra-Dioxins	25.48	0.603	YES	2.05e2	2.36e5	0.000	0.176
2	39 Total Tetra-Dioxins	21.42	0.907	YES	3.75e2	2.36e5	0.000	0.274

Penta-Dioxins

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	40 Total Penta-Dioxins	28.70	0.608	NO	5.35e2	1.65e5	0.722	0.722
2	40 Total Penta-Dioxins	29.90	0.480	YES	1.59e2	1.65e5	0.000	0.210
3	40 Total Penta-Dioxins	29.74	0.395	YES	1.45e2	1.65e5	0.000	0.192
4	2 1,2,3,7,8-PeCDD	31.03	0.670	NO	1.72e2	1.65e5	0.219	0.219
5	40 Total Penta-Dioxins	29.98	0.750	YES	1.42e2	1.65e5	0.000	0.157

Hexa-Dioxins

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	5 1,2,3,7,8,9-HxCDD	34.83	1.176	NO	5.94e2	1.87e5	0.681	0.681
2	4 1,2,3,6,7,8-HxCDD	34.54	1.379	NO	1.58e3	2.03e5	1.50	1.50
3	41 Total Hexa-Dioxins	33.78	1.171	NO	4.89e3	1.84e5	5.55	5.55
4	41 Total Hexa-Dioxins	33.52	1.592	YES	4.73e2	1.84e5	0.000	0.407
5	41 Total Hexa-Dioxins	32.96	1.198	NO	2.87e3	1.84e5	3.22	3.22

Hepta-Dioxins

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	38.28	1.006	NO	1.86e4	1.39e5	26.6	26.6
2	42 Total Hepta-Dioxins	37.25	0.973	NO	1.93e4	1.39e5	28.0	28.0

Dataset: U:\VG12.PRO\Results\200315R2\200315R2-8B.qld

Last Altered: Thursday, March 26, 2020 10:45:54 Pacific Daylight Time
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Name: 200315R2_8, Date: 16-Mar-2020, Time: 05:32:42

Tetra-Furans

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	43 Total Tetra-Furans	26.95	0.891	YES	1.02e3	2.98e5	0.000	0.643
2	43 Total Tetra-Furans	25.18	0.787	NO	4.89e2	2.98e5	0.351	0.351
3	8 2,3,7,8-TCDF	24.78	0.710	NO	8.63e3	2.98e5	6.58	6.58
4	43 Total Tetra-Furans	24.64	0.555	YES	6.54e2	2.98e5	0.000	0.476
5	43 Total Tetra-Furans	24.06	0.752	NO	3.21e2	2.98e5	0.237	0.237
6	43 Total Tetra-Furans	23.72	0.769	NO	8.02e3	2.98e5	5.84	5.84
7	43 Total Tetra-Furans	23.13	0.651	YES	1.08e3	2.98e5	0.000	0.789
8	43 Total Tetra-Furans	23.03	0.800	NO	4.22e2	2.98e5	0.301	0.301
9	43 Total Tetra-Furans	22.20	0.474	YES	3.81e2	2.98e5	0.000	0.277
10	43 Total Tetra-Furans	21.86	0.622	YES	6.99e2	2.98e5	0.000	0.509
11	43 Total Tetra-Furans	21.40	0.694	NO	2.07e3	2.98e5	1.60	1.60
12	43 Total Tetra-Furans	21.05	1.032	YES	8.64e2	2.98e5	0.000	0.469
13	43 Total Tetra-Furans	20.51	0.729	NO	1.11e3	2.98e5	0.833	0.833

Penta-Furans function 1

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	44 1st Func. Penta-Furans	26.95	1.507	NO	4.07e3	3.47e5	2.47	2.47

Penta-Furans

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	45 Total Penta-Furans	31.66	1.254	YES	4.06e2	3.47e5	0.000	0.244
2	10 2,3,4,7,8-PeCDF	30.71	1.491	NO	7.33e3	3.41e5	4.34	4.34
3	45 Total Penta-Furans	30.61	1.126	YES	2.55e2	3.47e5	0.000	0.153
4	45 Total Penta-Furans	29.95	1.808	YES	5.42e3	3.47e5	0.000	2.80
5	9 1,2,3,7,8-PeCDF	29.67	1.542	NO	1.67e4	3.52e5	9.95	9.95
6	45 Total Penta-Furans	29.48	1.381	NO	1.32e3	3.47e5	0.835	0.835
7	45 Total Penta-Furans	29.26	1.486	NO	9.89e2	3.47e5	0.605	0.605
8	45 Total Penta-Furans	28.65	1.661	NO	9.39e3	3.47e5	5.50	5.50
9	45 Total Penta-Furans	30.74	1.576	NO	1.37e3	3.47e5	0.816	0.816

Dataset: U:\VG12.PRO\Results\200315R2\200315R2-8B.qld

Last Altered: Thursday, March 26, 2020 10:45:54 Pacific Daylight Time
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Name: 200315R2_8, Date: 16-Mar-2020, Time: 05:32:42

Hexa-Furans

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	14 1,2,3,7,8,9-HxCDF	35.16	0.927	YES	5.06e2	1.15e5	0.000	0.512
2	13 2,3,4,6,7,8-HxCDF	34.28	1.151	NO	1.24e3	1.32e5	1.08	1.08
3	12 1,2,3,6,7,8-HxCDF	33.70	1.107	NO	5.34e3	1.42e5	4.81	4.81
4	11 1,2,3,4,7,8-HxCDF	33.59	1.225	NO	2.42e4	1.30e5	21.8	21.8
5	46 Total Hexa-Furans	33.12	1.249	NO	4.00e3	1.30e5	3.41	3.41
6	46 Total Hexa-Furans	32.55	1.190	NO	4.09e3	1.30e5	3.57	3.57
7	46 Total Hexa-Furans	32.39	1.207	NO	1.25e3	1.30e5	1.09	1.09
8	46 Total Hexa-Furans	35.19	1.309	NO	1.59e3	1.30e5	1.33	1.33

Hepta-Furans

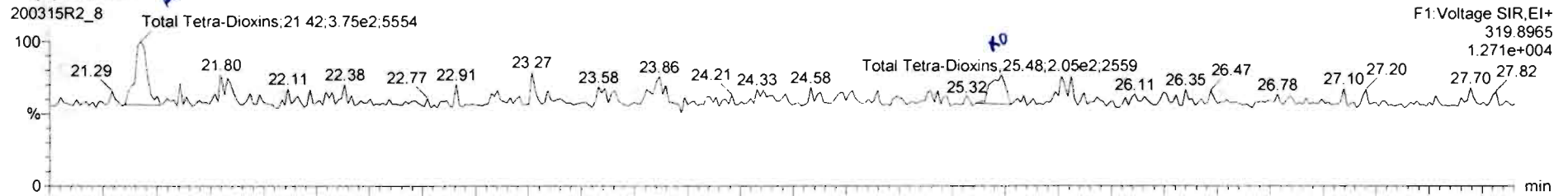
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1	16 1,2,3,4,7,8,9-HpCDF	38.91	0.973	NO	2.24e3	6.67e4	3.40	3.40
2	47 Total Hepta-Furans	37.46	0.993	NO	7.94e3	7.96e4	11.5	11.5
3	15 1,2,3,4,6,7,8-HpCDF	36.87	1.015	NO	7.47e3	9.25e4	9.20	9.20

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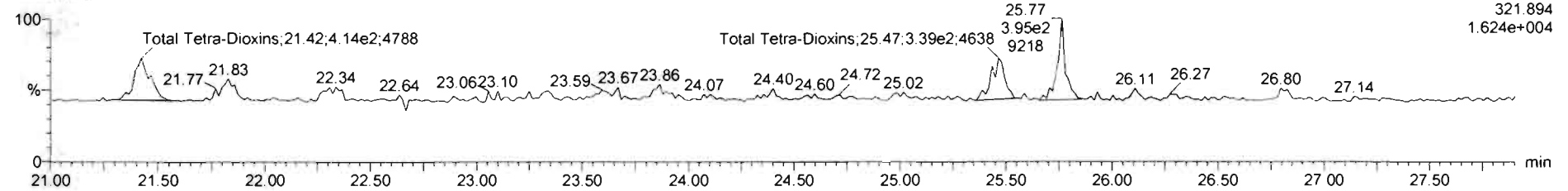
Last Altered: Monday, March 16, 2020 08:44:13 Pacific Daylight Time
Printed: Monday, March 16, 2020 08:51:00 Pacific Daylight Time

Name: 200315R2_8, Date: 16-Mar-2020, Time: 05:32:42, ID: 2000144-13 PDI-084SC-A-01-02-191002 20.48, Description: PDI-084SC-A-01-02-191002

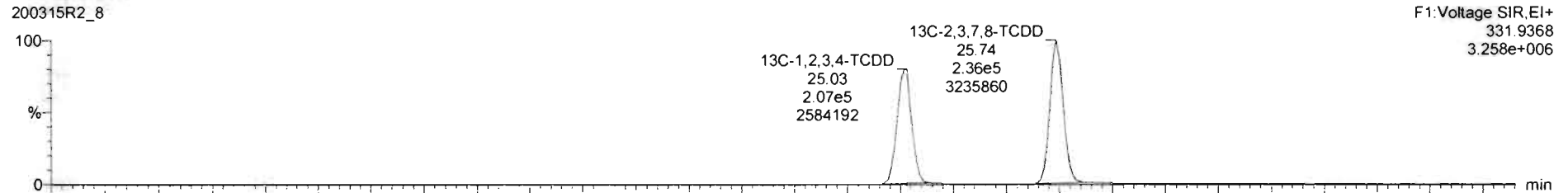
2,3,7,8-TCDD



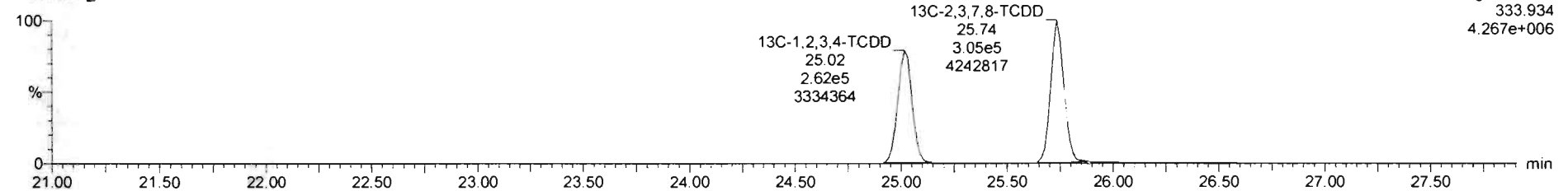
200315R2_8



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



200315R2_8



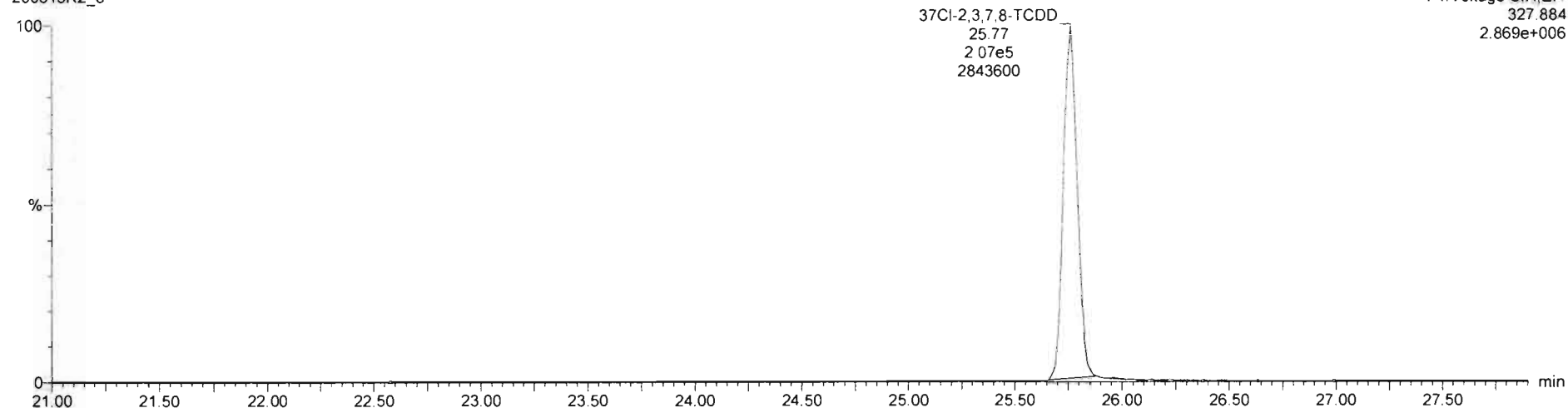
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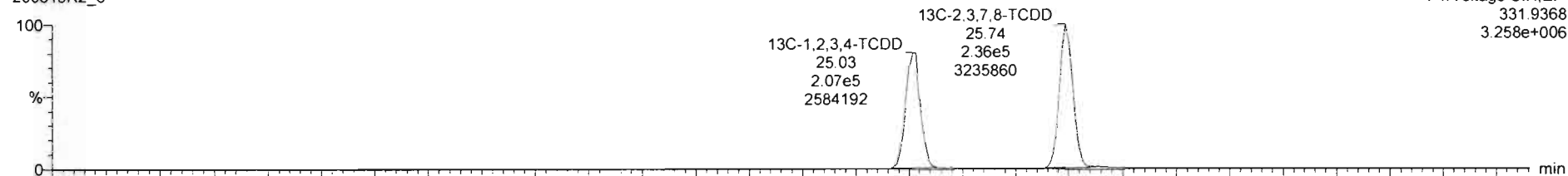
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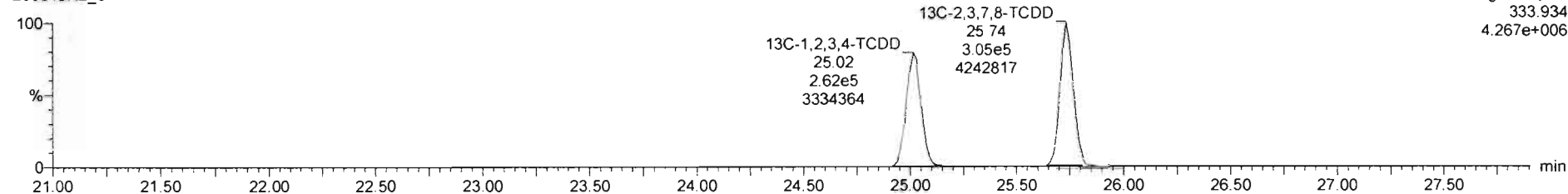


13C-1,2,3,4-TCDD

200315R2_8



200315R2_8



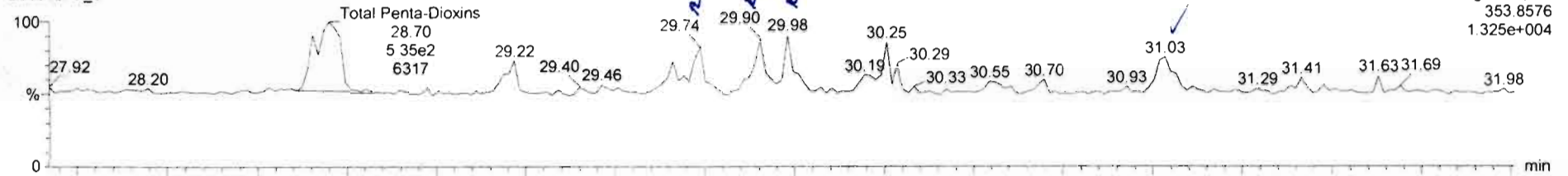
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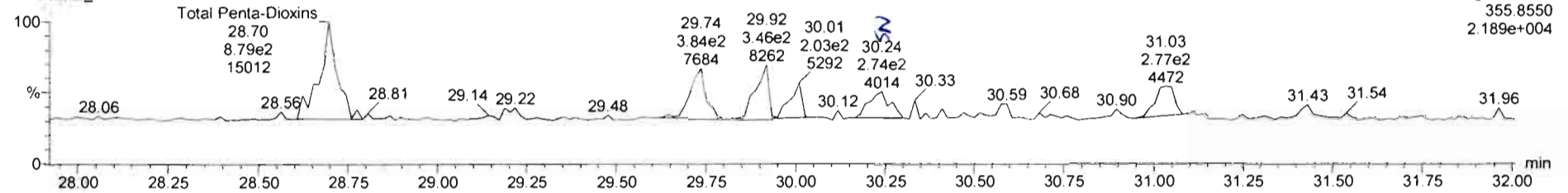
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1,2,3,7,8-PeCDD

200315R2_8

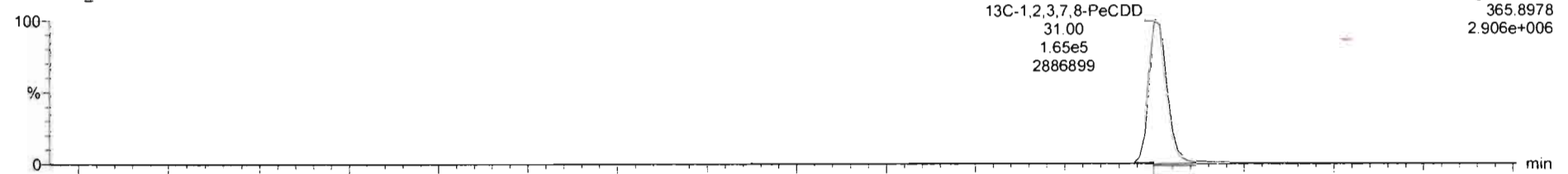


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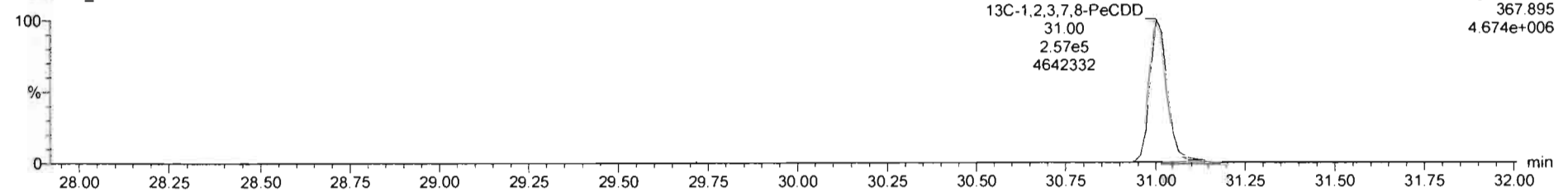


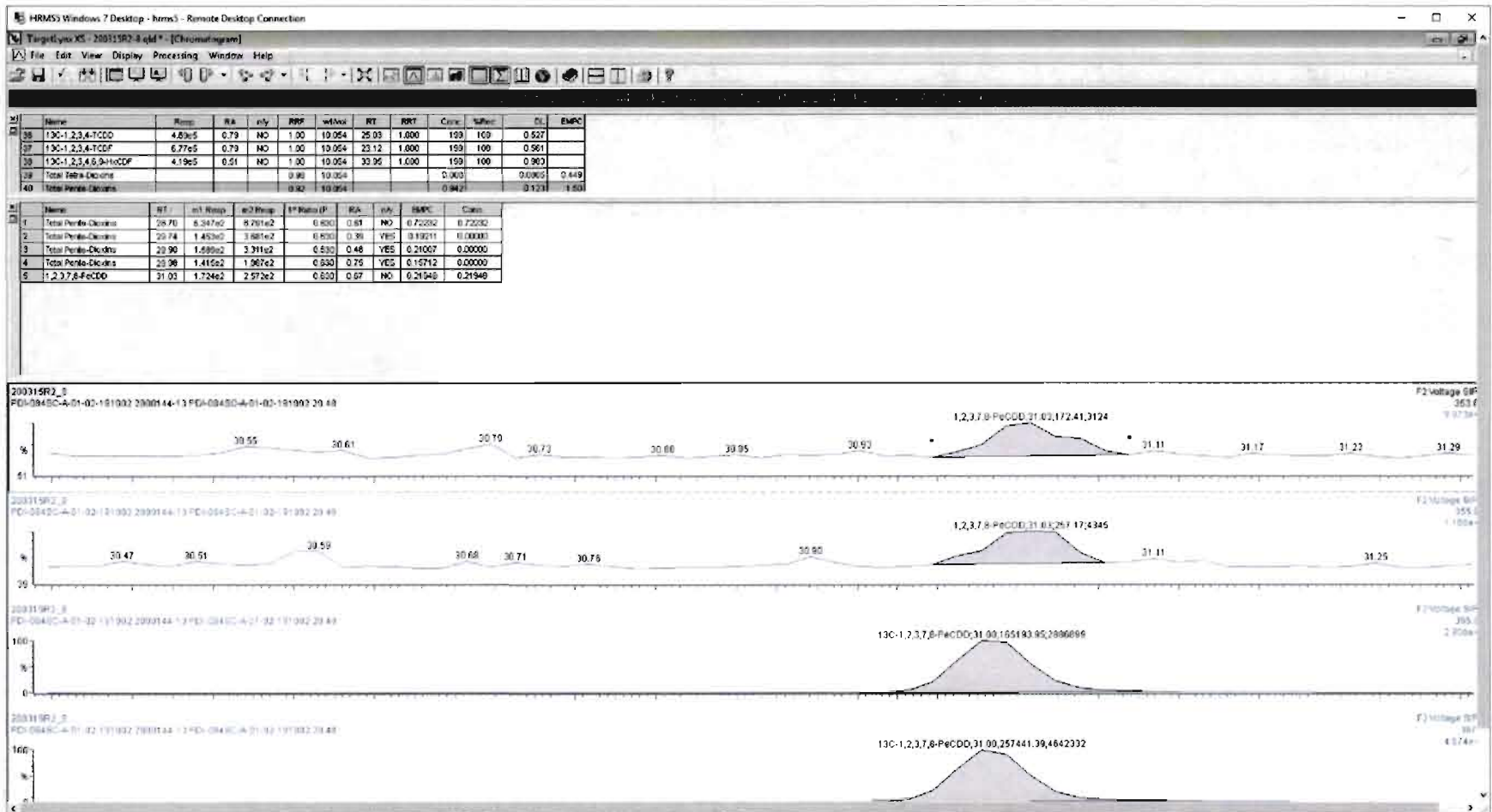
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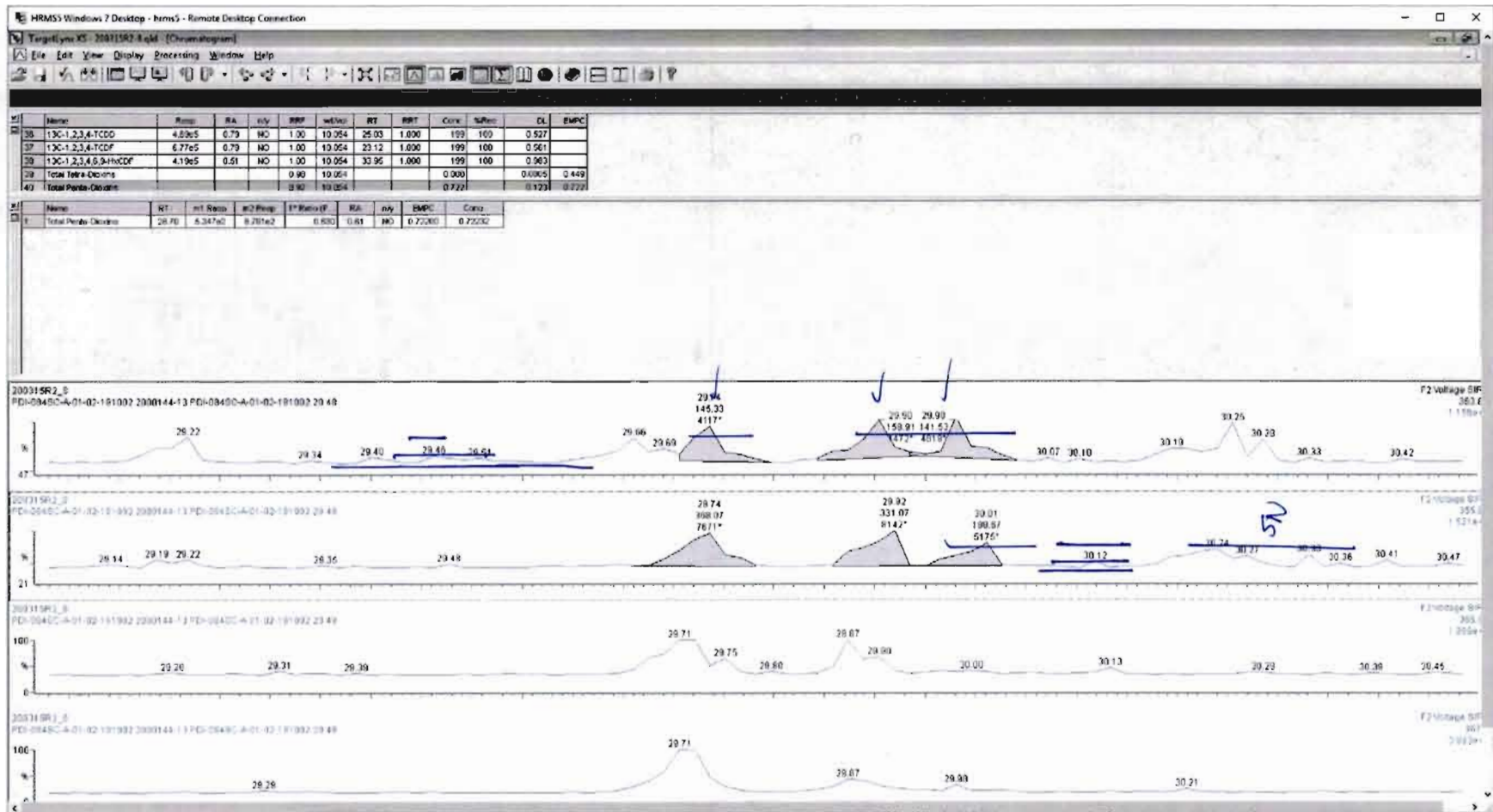
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200315R2_8







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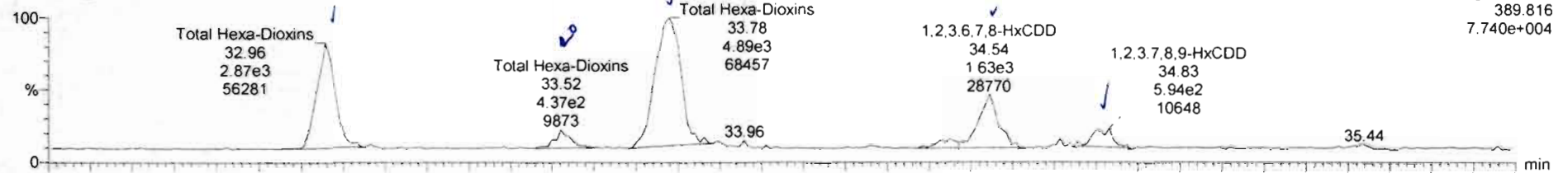
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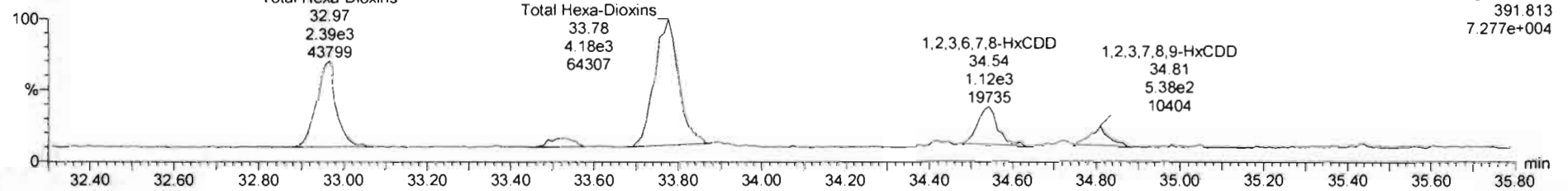
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1,2,3,4,7,8-HxCDD

200315R2_8

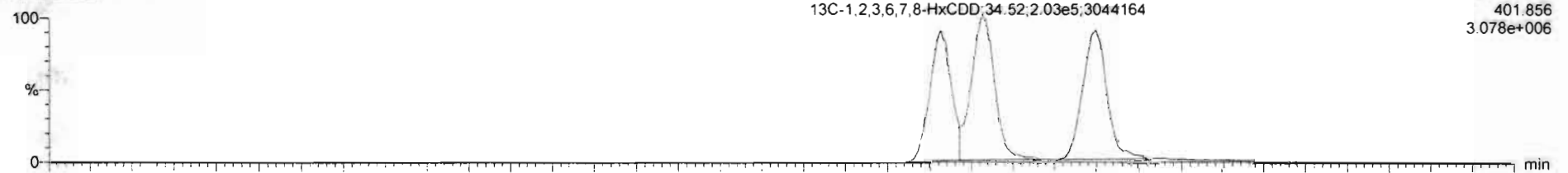


200315R2_8

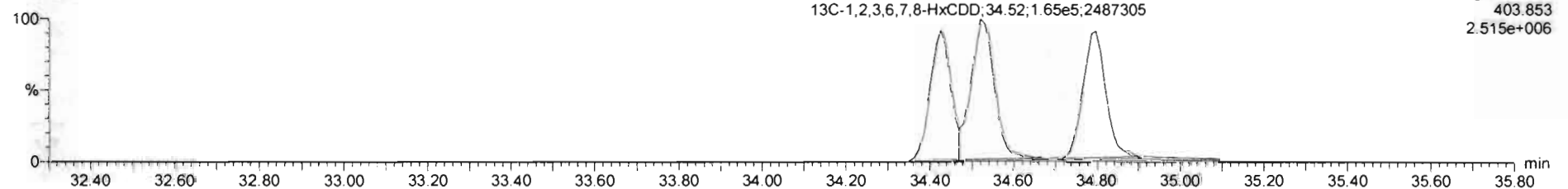


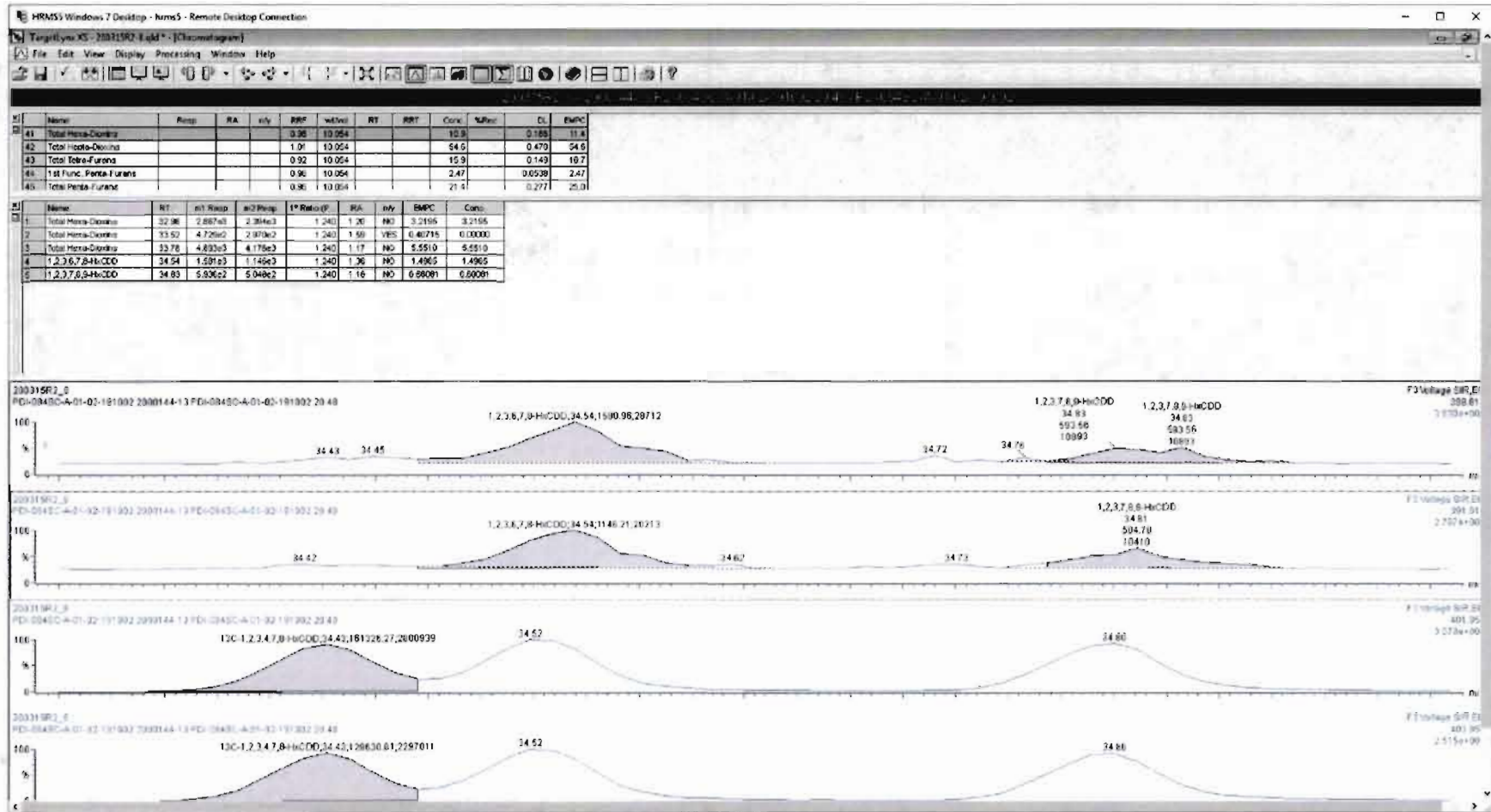
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200315R2_8



200315R2_8





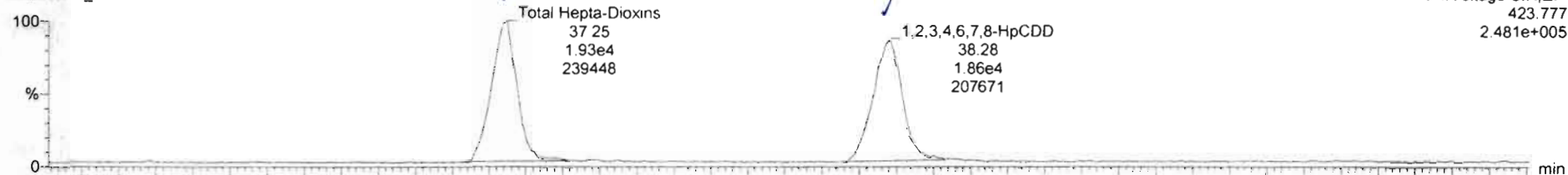
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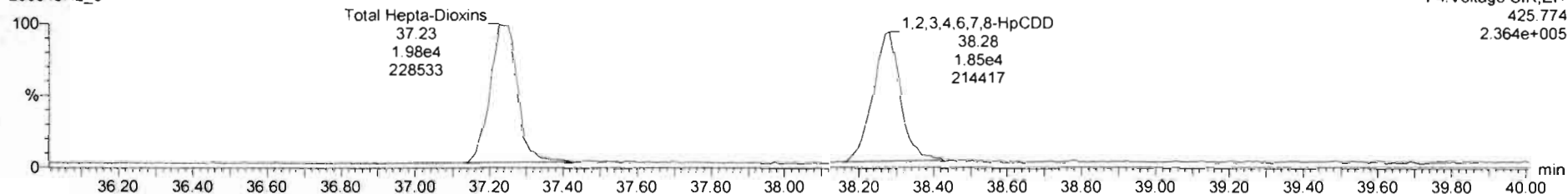
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1,2,3,4,6,7,8-HpCDD

200315R2_8

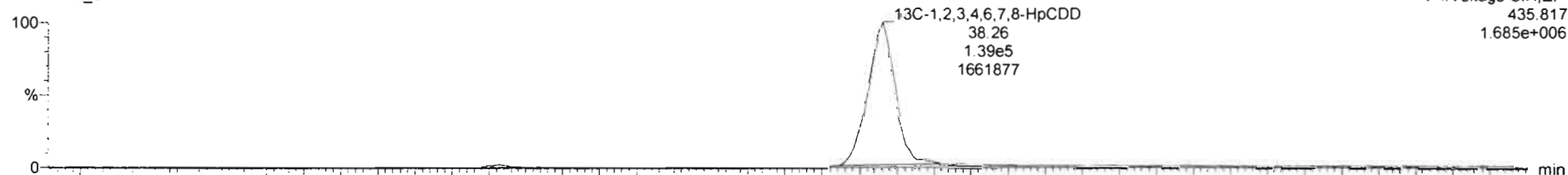


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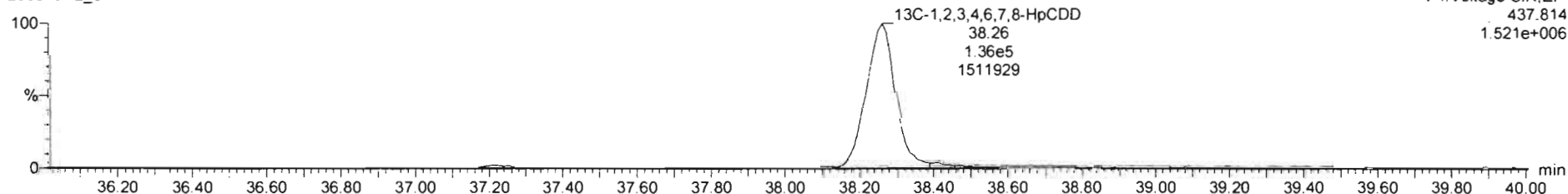


13C-1,2,3,4,6,7,8-HpCDD

200315R2_8



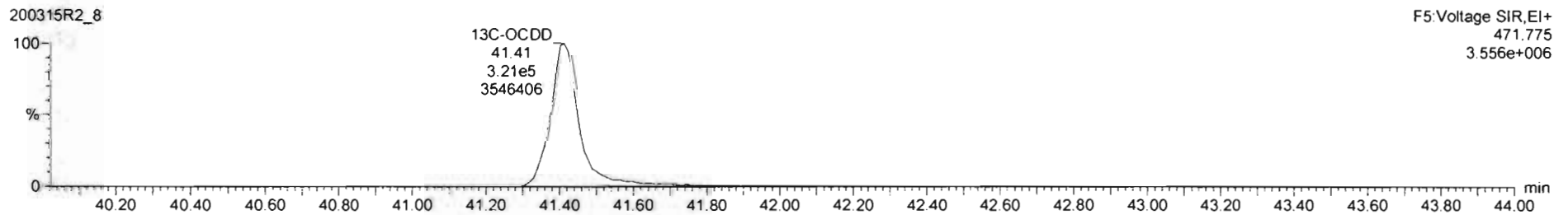
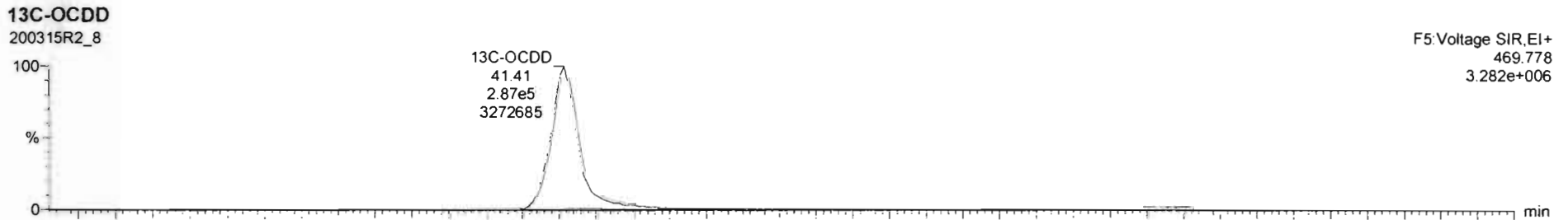
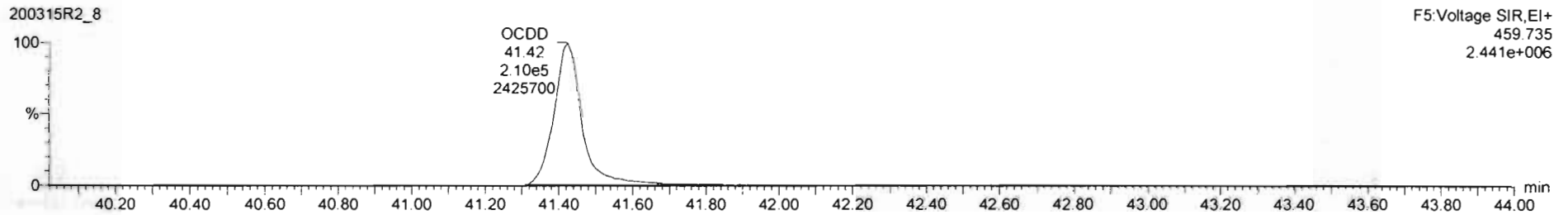
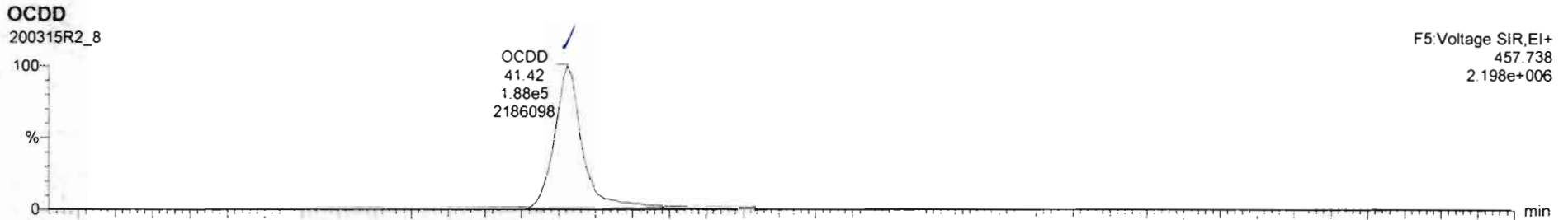
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Name: 200315R2_8, Date: 16-Mar-2020, Time: 05:32:42, ID: 2000144-13 PDI-084SC-A-01-02-191002 20.48, Description: PDI-084SC-A-01-02-191002

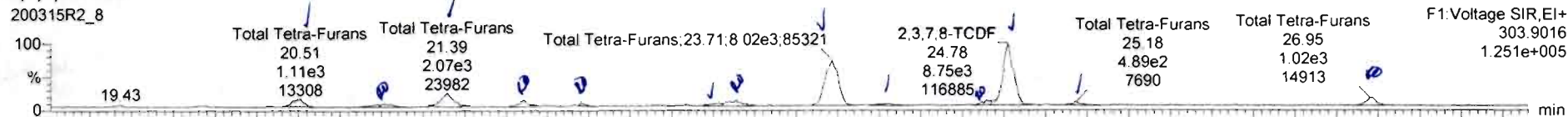


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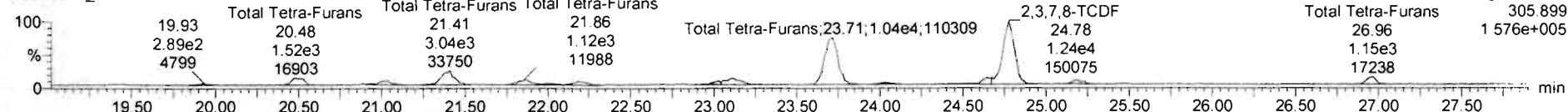
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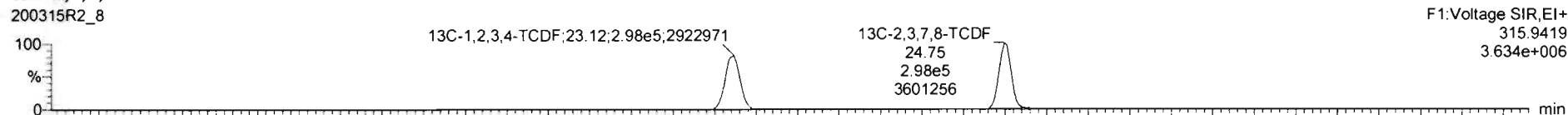
2,3,7,8-TCDF



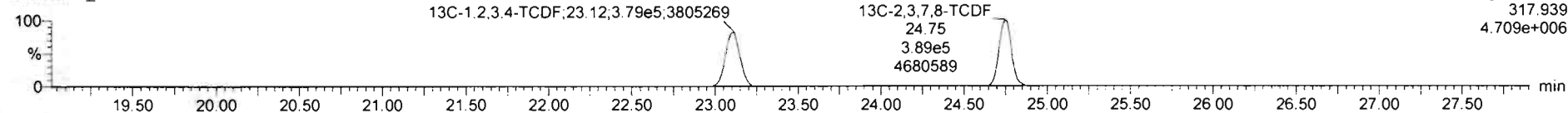
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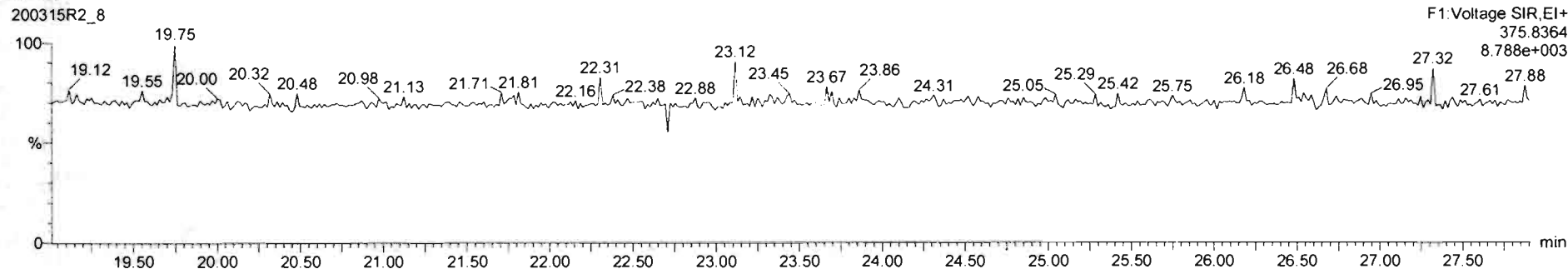
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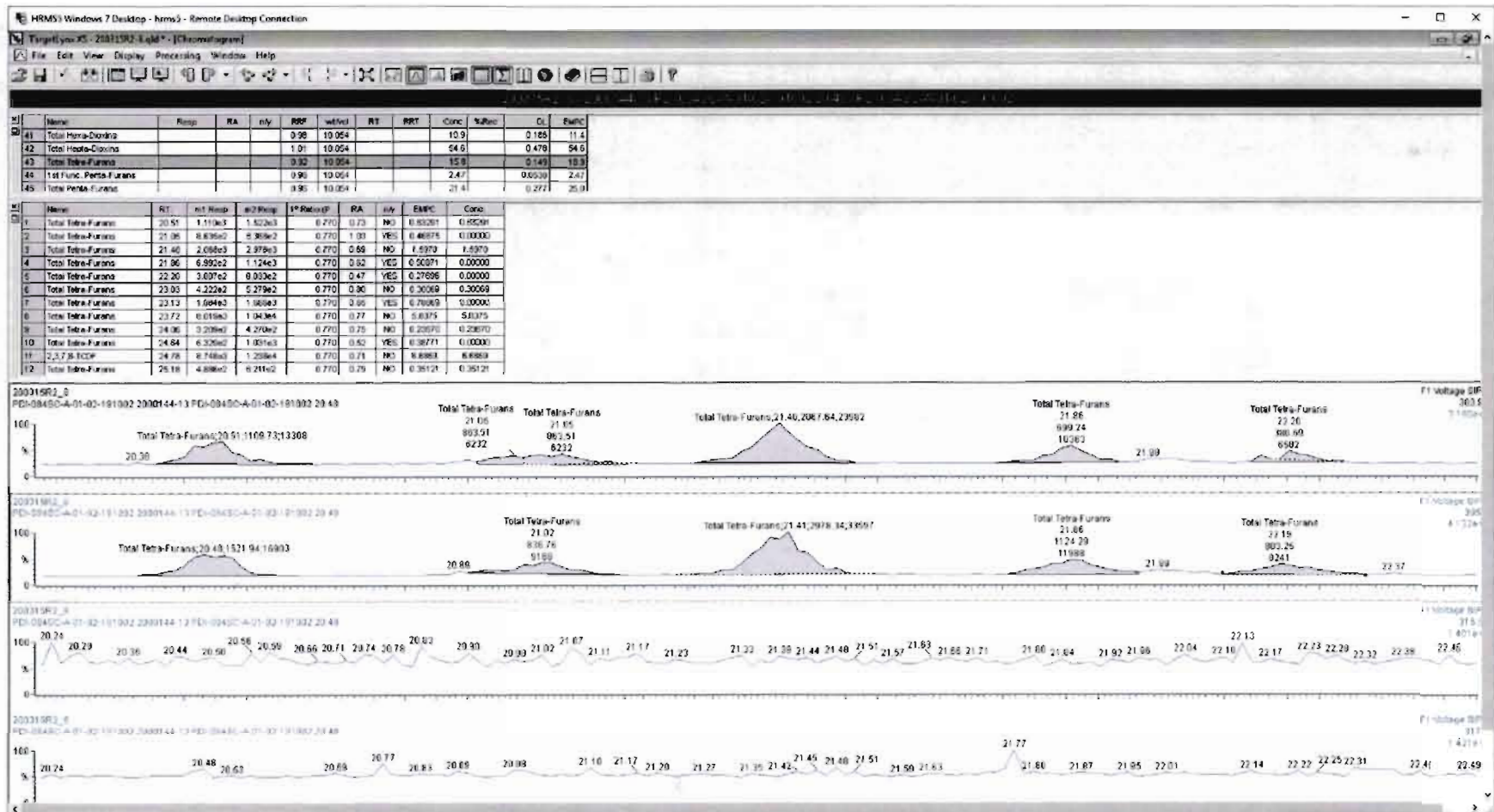


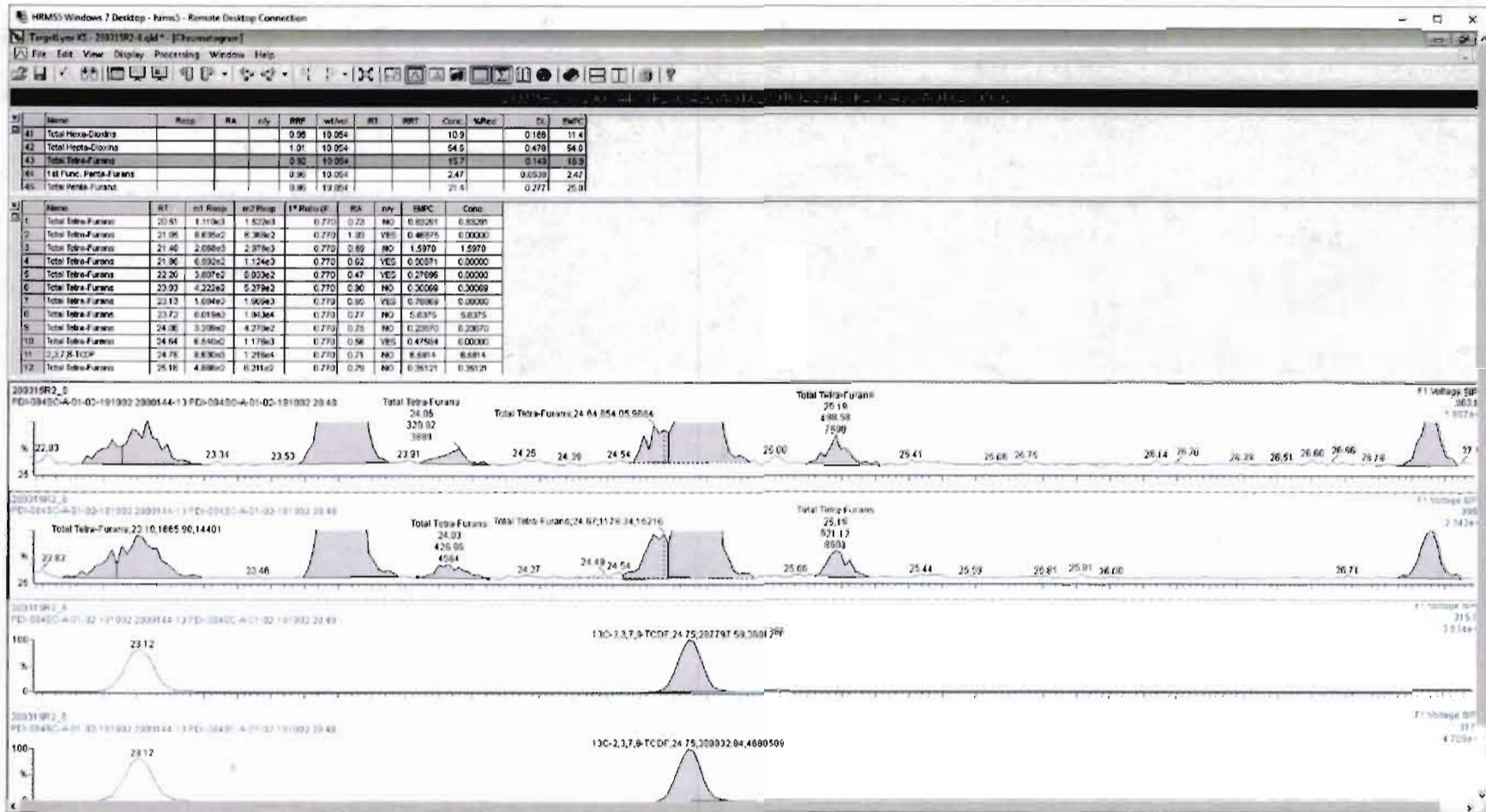
200315R2_8



DPE1







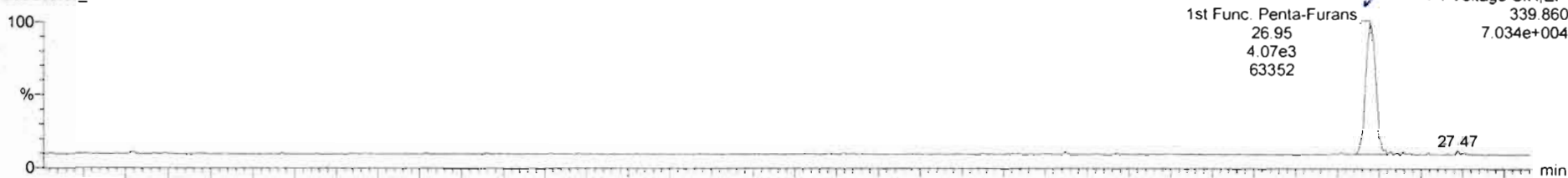
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Printed: Monday, March 16, 2020 08:51:00 Pacific Daylight Time

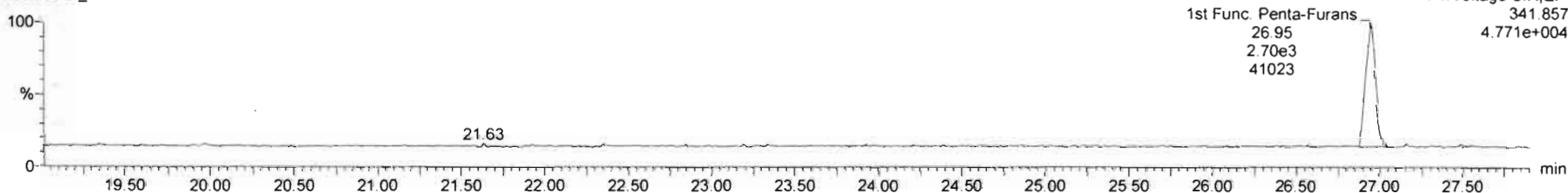
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200315R2_8

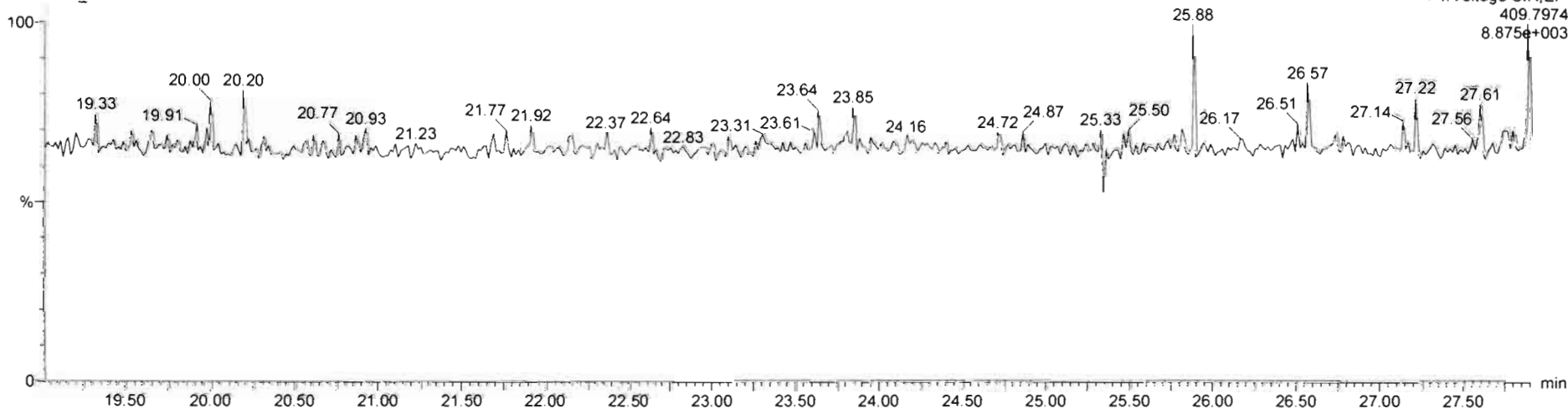


200315R2_8



DPE6

200315R2_8

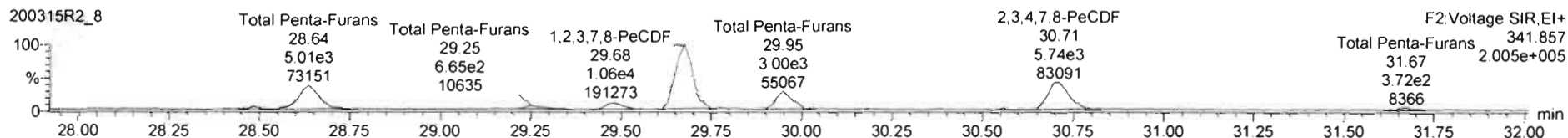
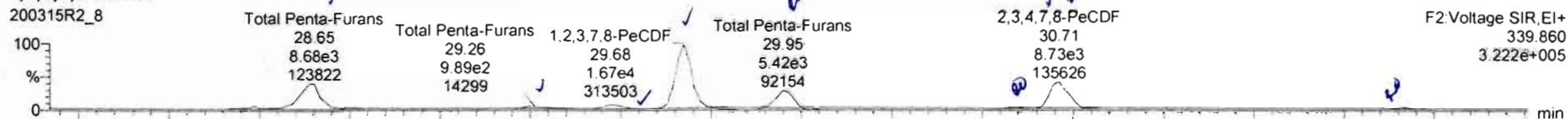


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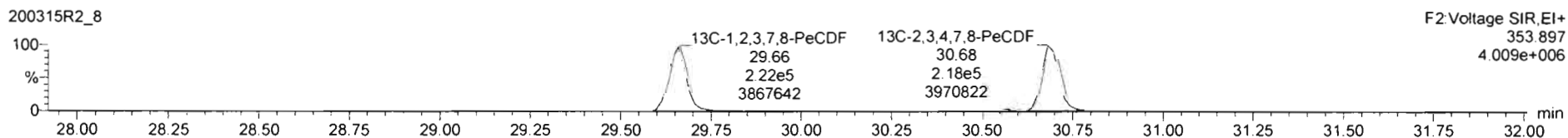
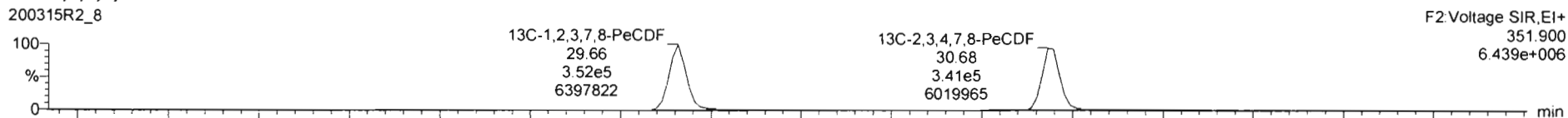
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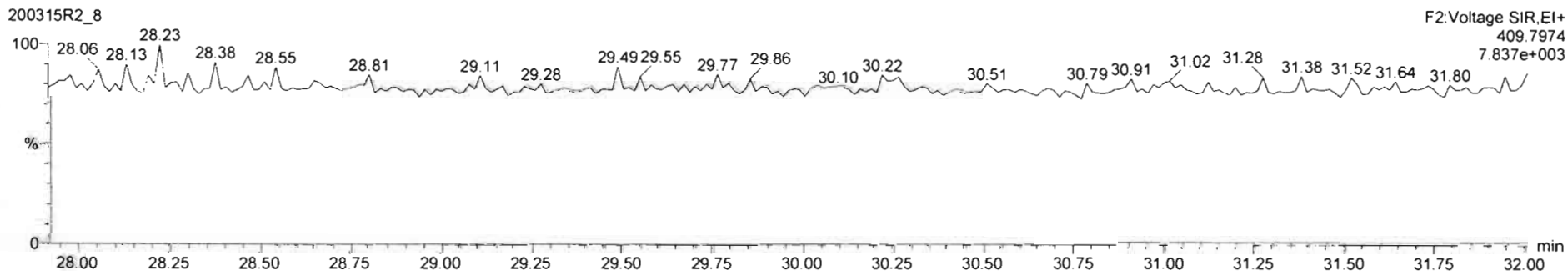
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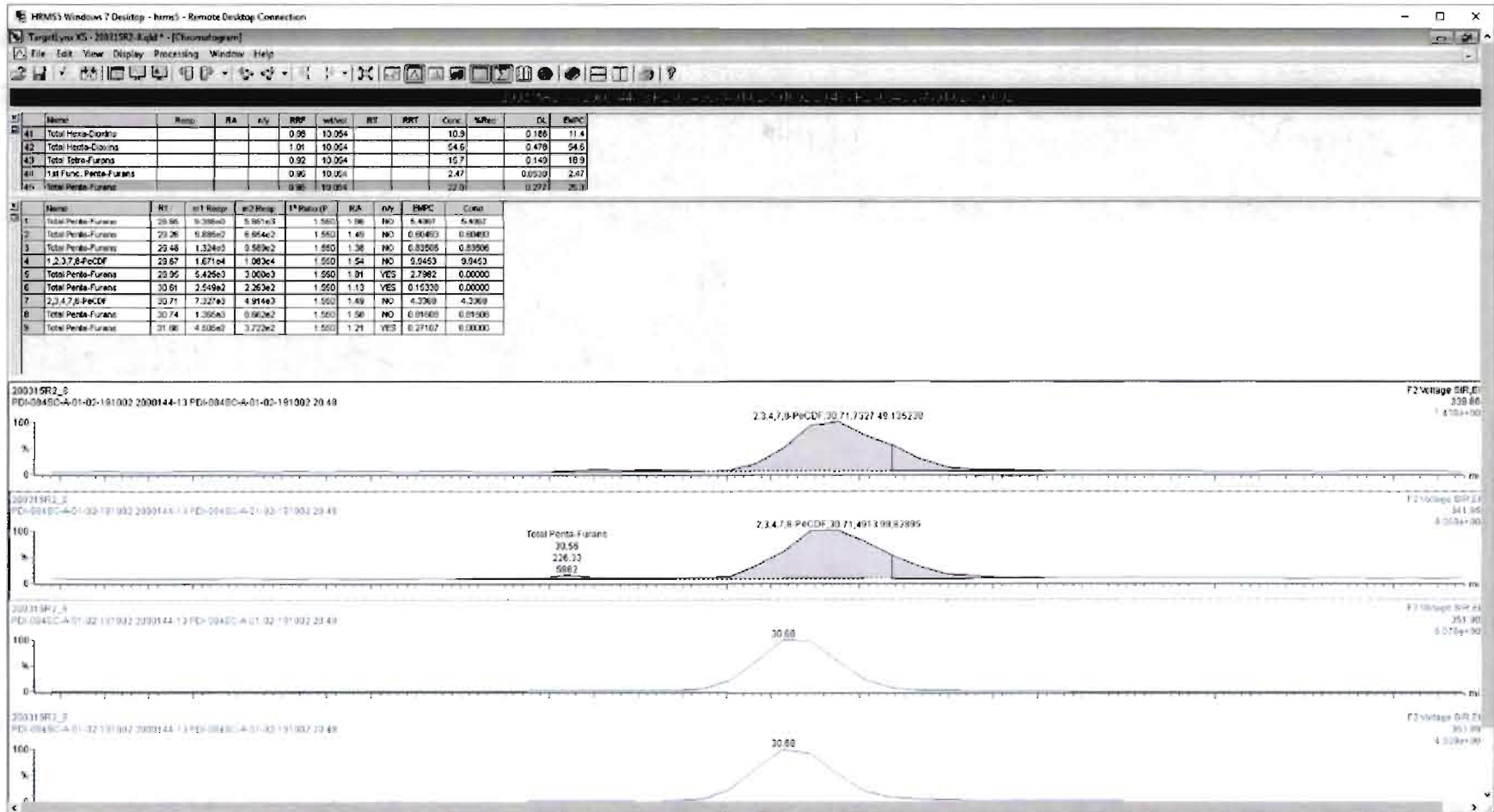


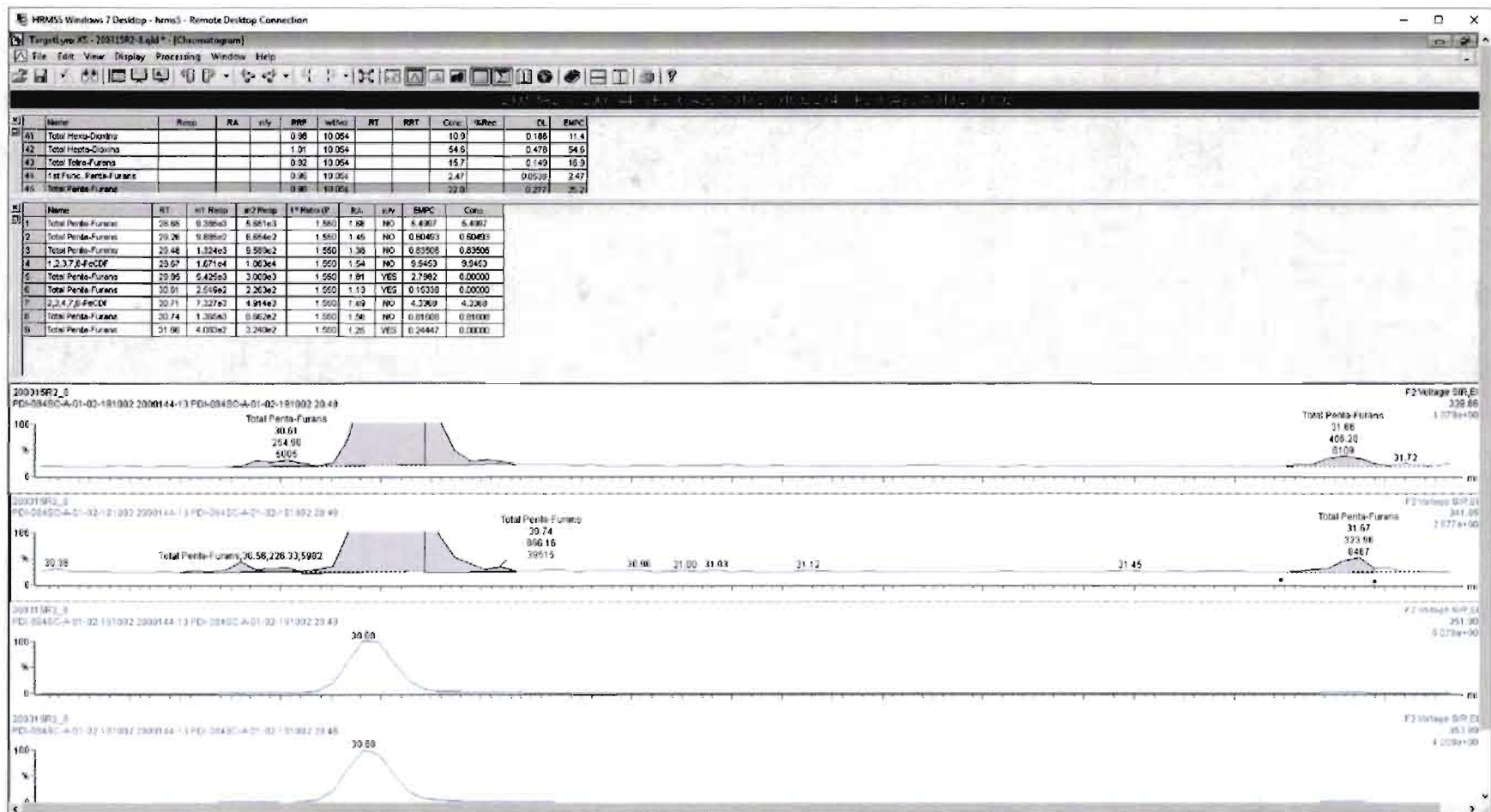
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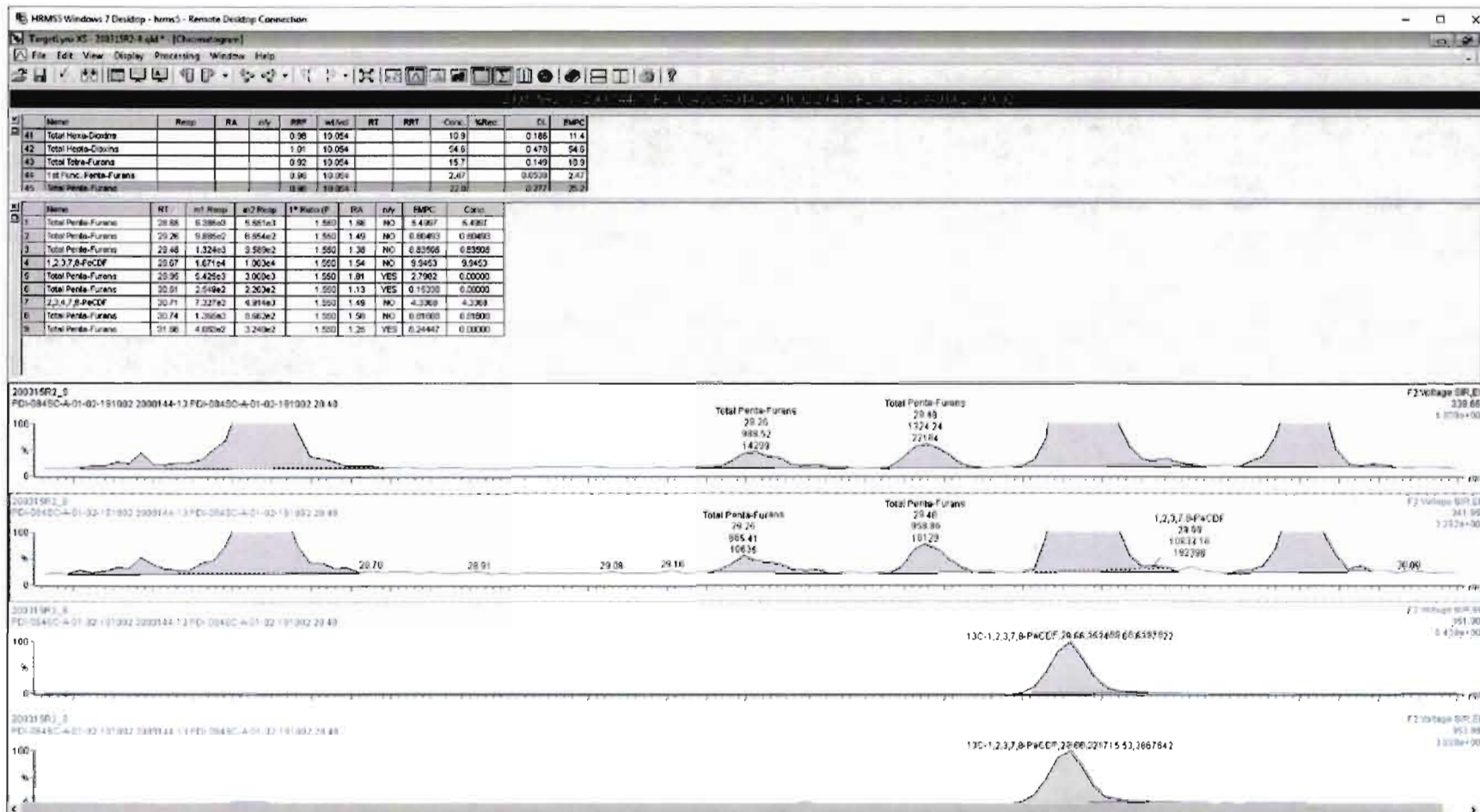


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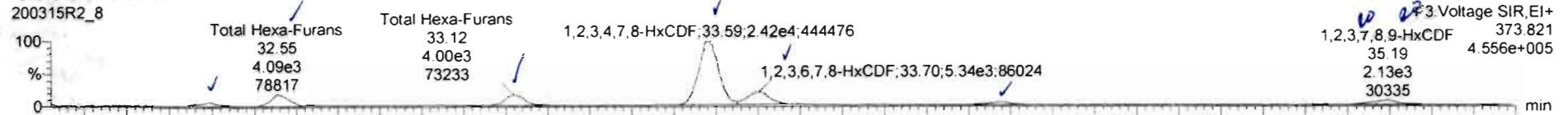


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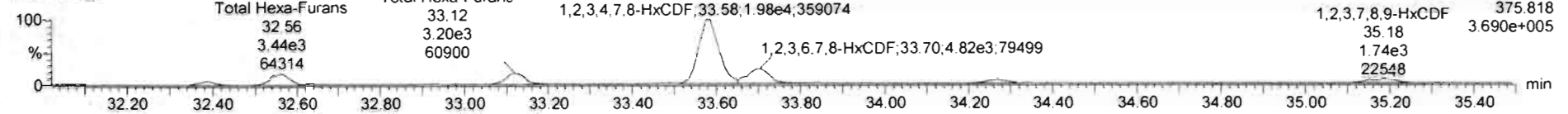
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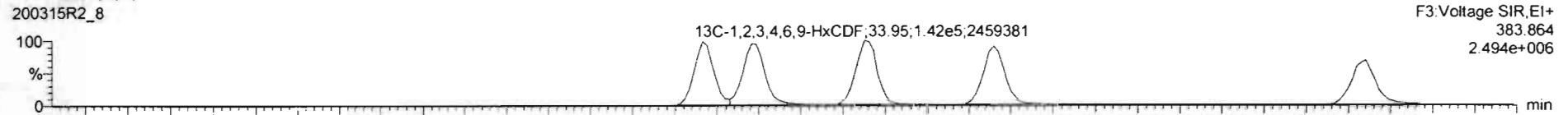
1,2,3,4,7,8-HxCDF



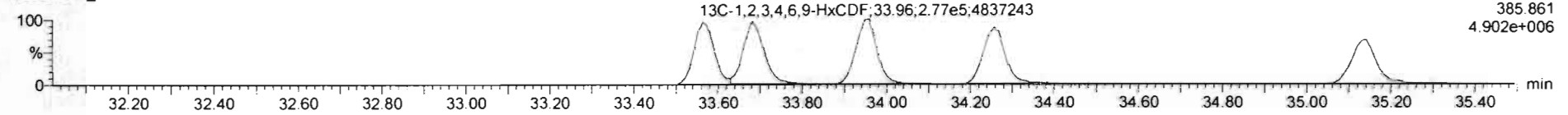
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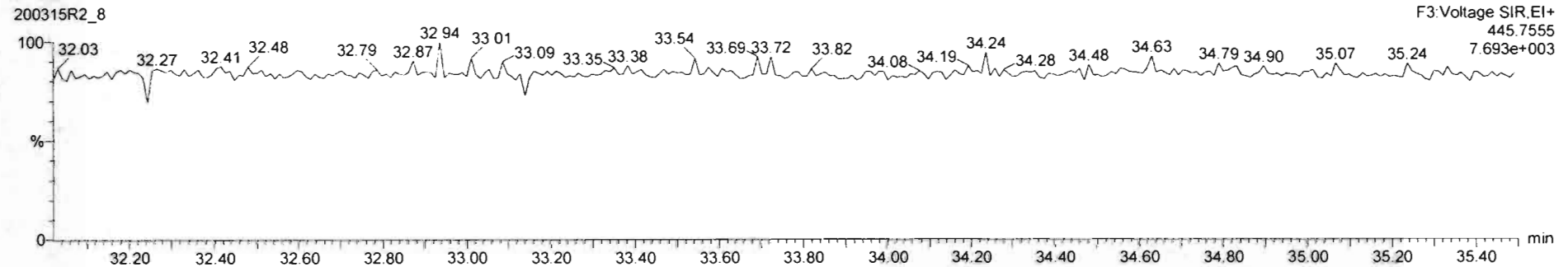
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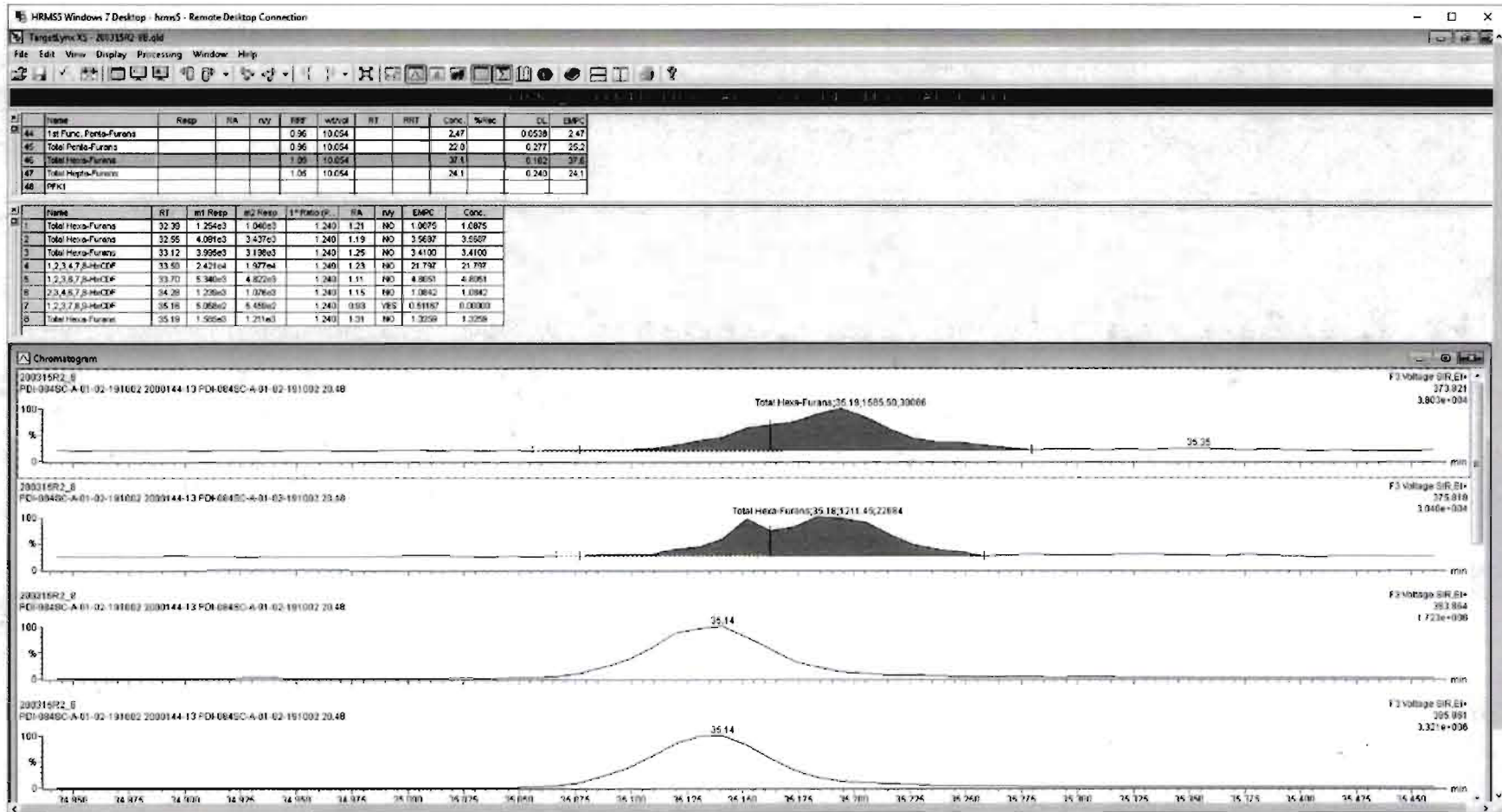


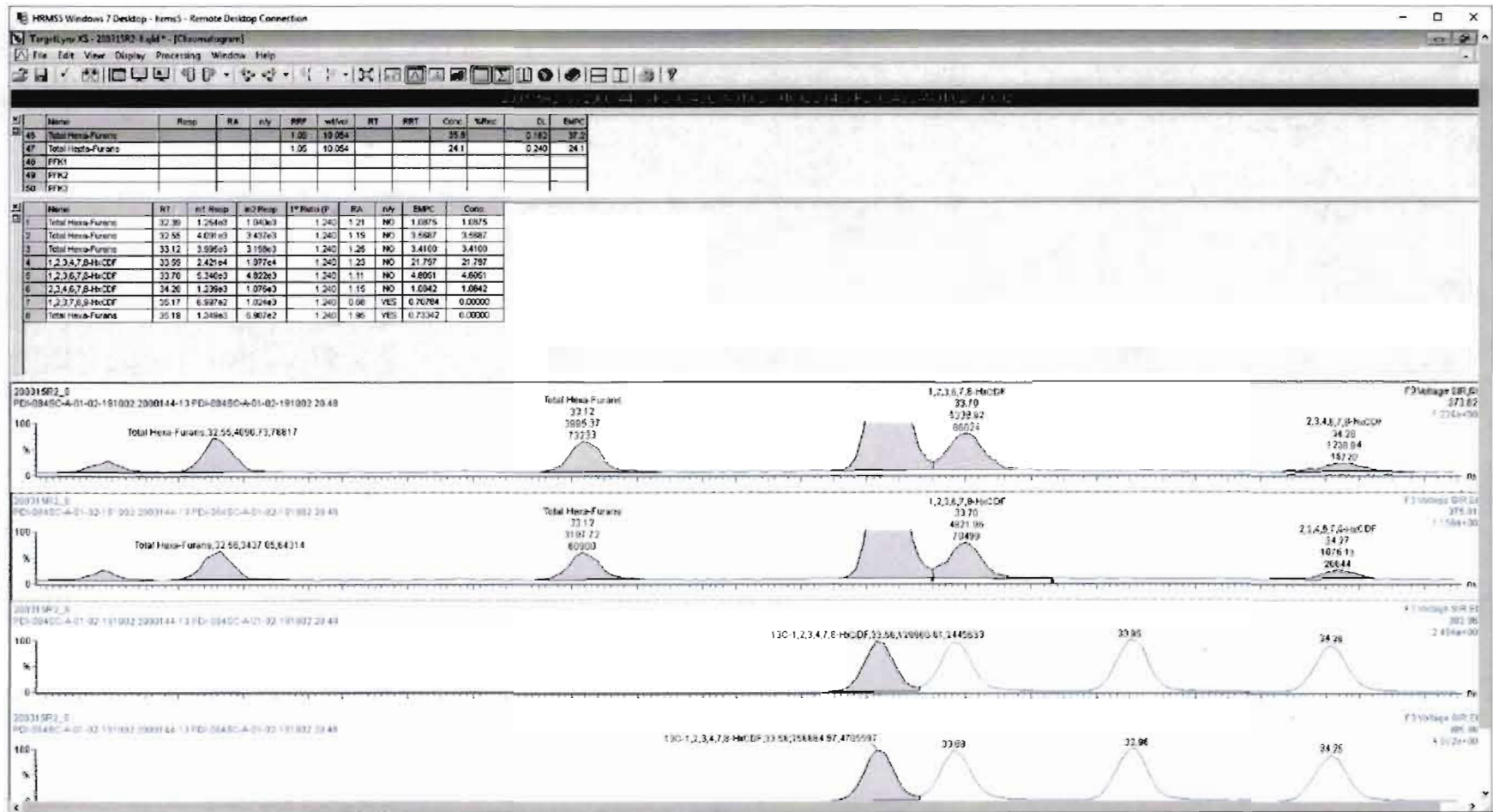
200315R2_8



DPE3





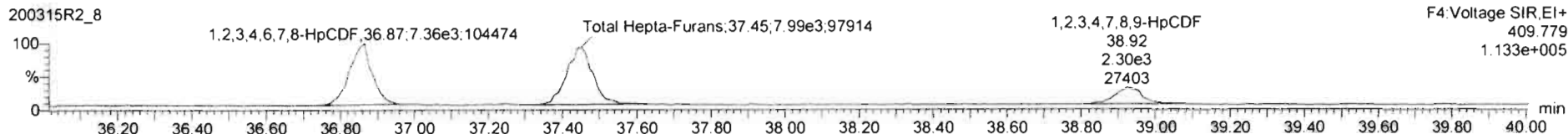


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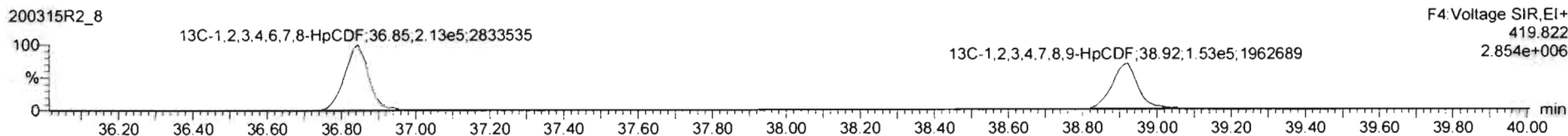
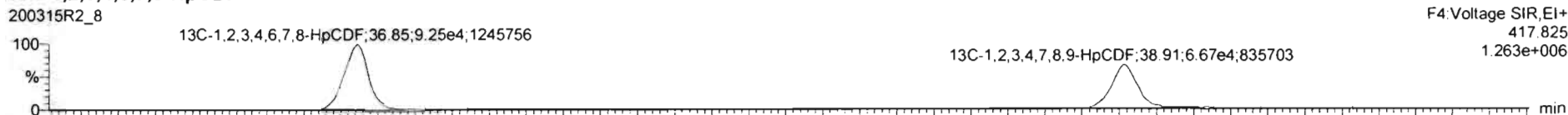
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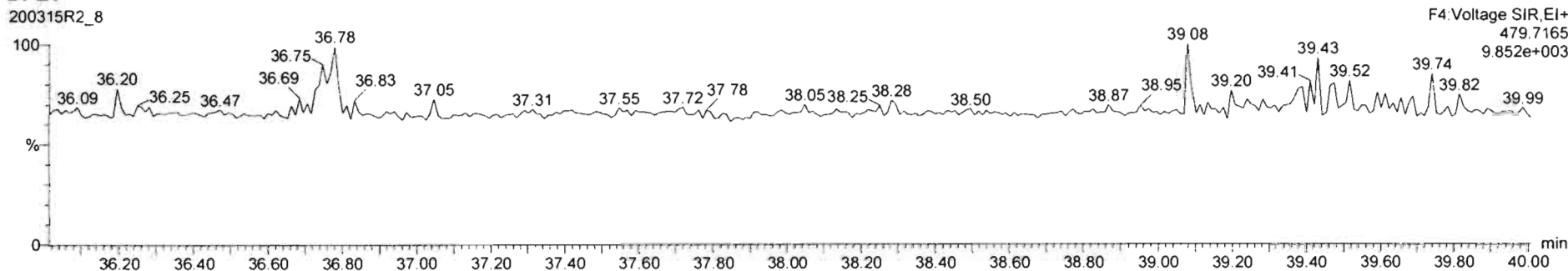
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13C-1,2,3,4,6,7,8-HpCDF



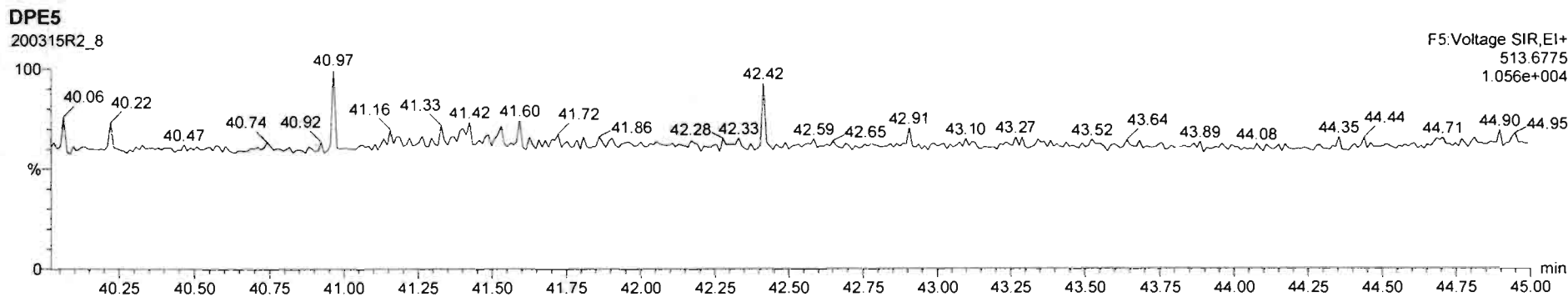
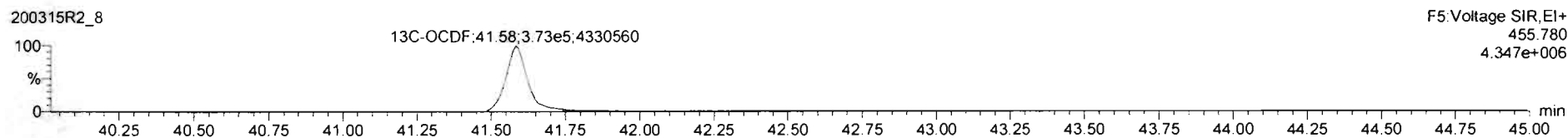
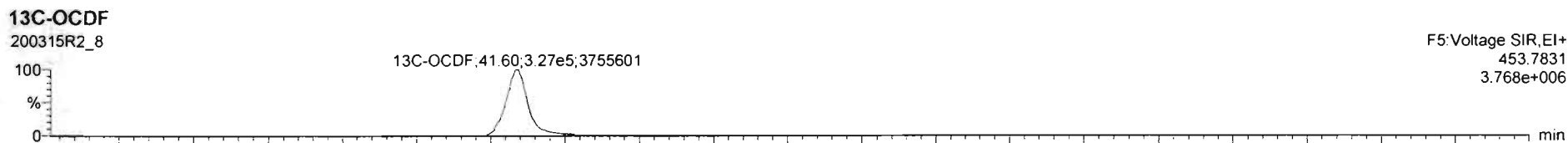
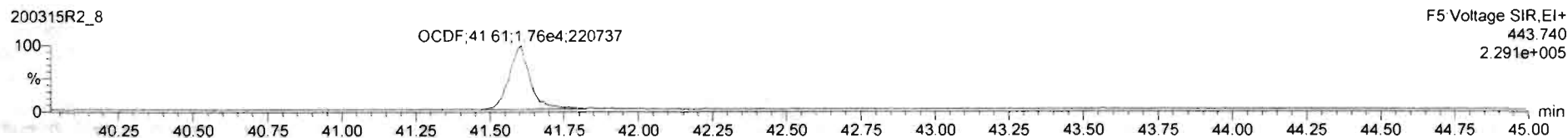
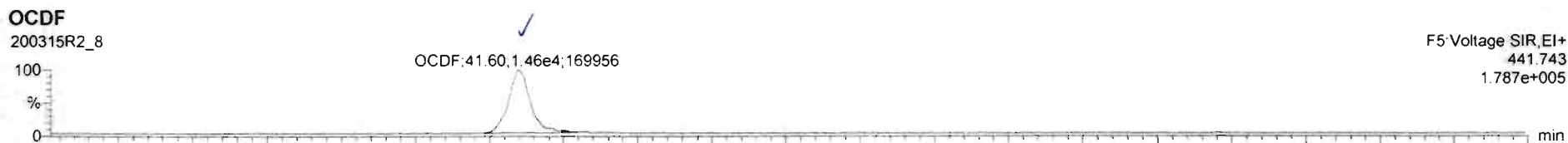
DPE4



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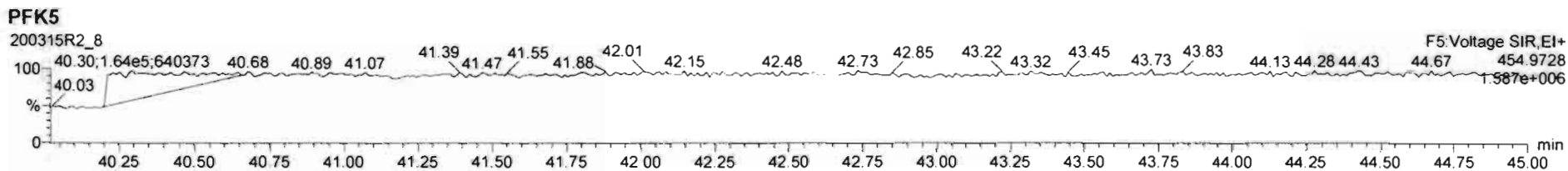
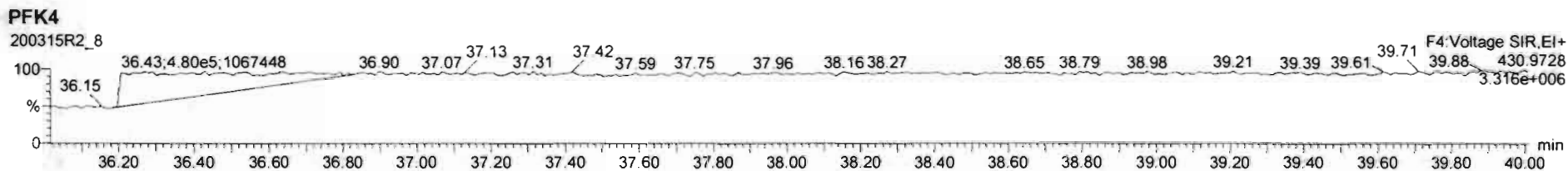
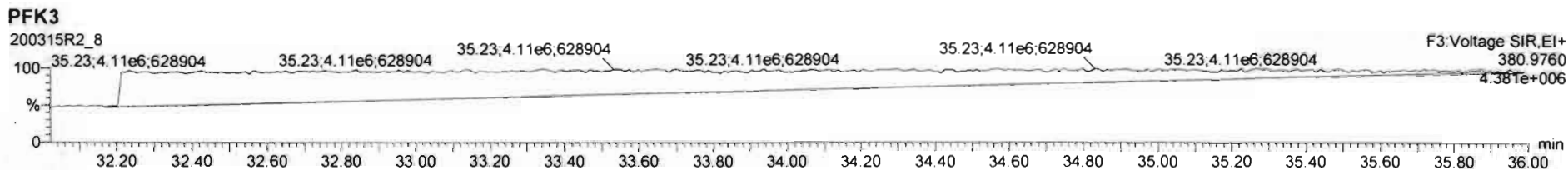
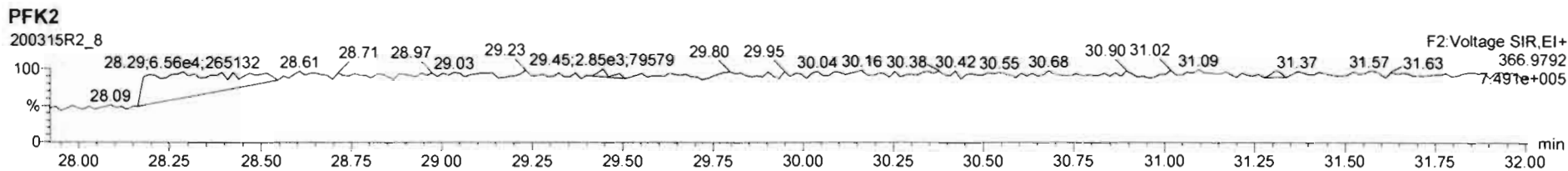
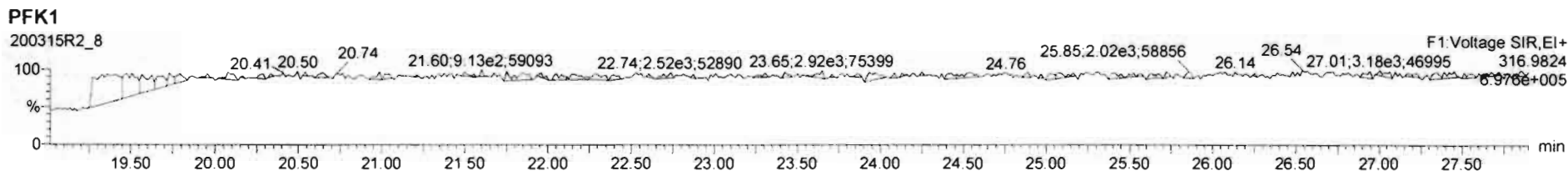


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Dataset: U:\VG12.PRO\Results\200315R2\200315R2-9.qld

Last Altered: Wednesday, March 25, 2020 16:11:37 Pacific Daylight Time

Printed: Wednesday, March 25, 2020 16:12:48 Pacific Daylight Time

BL 03/25/2020

03/26/2020

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

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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	2.41e3	5.61e5	0.752	NO	10.12	25.75	25.74	1.00	1.00	NO	0.86129		0.180	0.86129
2	2 1,2,3,7,8-PeCDD	3.52e3	4.51e5	0.588	NO	10.12	31.02	31.02	1.00	1.00	NO	1.6736		0.145	1.6736
3	3 1,2,3,4,7,8-HxCDD	3.76e3	3.21e5	1.196	NO	10.12	34.44	34.44	1.00	1.00	NO	2.0462		0.312	2.0462
4	4 1,2,3,6,7,8-HxCDD	2.14e4	3.99e5	1.233	NO	10.12	34.52	34.54	1.00	1.00	NO	10.792		0.303	10.792
5	5 1,2,3,7,8,9-HxCDD	9.13e3	3.49e5	1.315	NO	10.12	34.80	34.81	1.00	1.00	NO	5.3385		0.377	5.3385
6	6 1,2,3,4,6,7,8-HpCDD	3.93e5	2.95e5	1.011	NO	10.12	38.26	38.27	1.00	1.00	NO	261.49		1.618	261.49
7	7 OCDD	5.47e6	6.79e5	0.890	NO	10.12	41.40	41.40	1.00	1.00	NO	3026.3		1.297	3026.3
8	8 2,3,7,8-TCDF	5.53e5	7.10e5	0.761	NO	10.12	24.77	24.76	1.00	1.00	NO	168.32	(134)	0.315	168.32
9	9 1,2,3,7,8-PeCDF	7.83e5	6.17e5	1.577	NO	10.12	29.67	29.66	1.00	1.00	NO	261.24		0.486	261.24
10	10 2,3,4,7,8-PeCDF	3.51e5	5.91e5	1.540	NO	10.12	30.71	30.70	1.00	1.00	NO	116.94		0.468	116.94
11	11 1,2,3,4,7,8-HxCDF	1.35e6	4.34e5	1.227	NO	10.12	33.56	33.58	1.00	1.00	NO	593.59		0.586	593.59
12	12 1,2,3,6,7,8-HxCDF	3.77e5	4.69e5	1.172	NO	10.12	33.69	33.69	1.00	1.00	NO	156.69		0.568	156.69
13	13 2,3,4,6,7,8-HxCDF	7.99e4	4.13e5	1.212	NO	10.12	34.29	34.27	1.00	1.00	NO	34.952		0.671	34.952
14	14 1,2,3,7,8,9-HxCDF	3.83e4	3.87e5	1.193	NO	10.12	35.13	35.16	1.00	1.00	NO	19.047		0.840	19.047
15	15 1,2,3,4,6,7,8-HpCDF	6.15e5	3.39e5	1.008	NO	10.12	36.88	36.86	1.00	1.00	NO	342.22		0.786	342.22
16	16 1,2,3,4,7,8,9-HpCDF	1.73e5	2.47e5	1.042	NO	10.12	38.91	38.93	1.00	1.00	NO	114.33		0.986	114.33
17	17 OCDF	9.68e5	7.36e5	0.904	NO	10.12	41.57	41.58	1.00	1.00	NO	549.19		0.553	549.19
18	18 13C-2,3,7,8-TCDD	5.61e5	4.69e5	0.777	NO	10.12	25.72	25.72	1.03	1.03	NO	199.52	101.0	0.400	
19	19 13C-1,2,3,7,8-PeCDD	4.51e5	4.69e5	0.621	NO	10.12	30.90	31.00	1.24	1.24	NO	219.52	111.1	0.687	
20	20 13C-1,2,3,4,7,8-HxCDD	3.21e5	4.18e5	1.268	NO	10.12	34.42	34.43	1.01	1.01	NO	201.03	101.7	0.924	
21	21 13C-1,2,3,6,7,8-HxCDD	3.99e5	4.18e5	1.296	NO	10.12	34.53	34.52	1.02	1.02	NO	203.76	103.1	0.753	
22	22 13C-1,2,3,7,8,9-HxCDD	3.49e5	4.18e5	1.289	NO	10.12	34.79	34.79	1.02	1.02	NO	199.21	100.8	0.840	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.95e5	4.18e5	1.071	NO	10.12	38.25	38.25	1.13	1.13	NO	233.17	118.0	1.204	
24	24 13C-OCDD	6.79e5	4.18e5	0.895	NO	10.12	41.39	41.40	1.22	1.22	NO	562.01	142.2	1.350	
25	25 13C-2,3,7,8-TCDF	7.10e5	6.63e5	0.772	NO	10.12	24.74	24.75	0.99	0.99	NO	194.18	98.3	0.601	
26	26 13C-1,2,3,7,8-PeCDF	6.17e5	6.63e5	1.558	NO	10.12	29.57	29.65	1.18	1.19	NO	209.84	106.2	0.655	
27	27 13C-2,3,4,7,8-PeCDF	5.91e5	6.63e5	1.580	NO	10.12	30.58	30.68	1.22	1.23	NO	208.66	105.6	0.681	
28	28 13C-1,2,3,4,7,8-HxCDF	4.34e5	4.18e5	0.504	NO	10.12	33.57	33.56	0.99	0.99	NO	204.94	103.7	0.965	
29	29 13C-1,2,3,6,7,8-HxCDF	4.69e5	4.18e5	0.509	NO	10.12	33.68	33.68	0.99	0.99	NO	198.52	100.5	0.864	
30	30 13C-2,3,4,6,7,8-HxCDF	4.13e5	4.18e5	0.535	NO	10.12	34.26	34.26	1.01	1.01	NO	188.80	95.5	0.933	
31	31 13C-1,2,3,7,8,9-HxCDF	3.87e5	4.18e5	0.496	NO	10.12	35.13	35.13	1.03	1.03	NO	209.33	105.9	1.106	
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.39e5	4.18e5	0.422	NO	10.12	36.84	36.85	1.09	1.09	NO	207.64	105.1	0.846	

Dataset: U:\VG12.PRO\Results\200315R2\200315R2-9.qld

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Name: 200315R2_9, Date: 16-Mar-2020, Time: 06:20:14, ID: 2000144-14 PDI-084SC-A-02-03-191002 20.28, Description: PDI-084SC-A-02-03-191002

#	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	2.47e5	4.18e5	0.444	NO	10.12	38.93	38.91	1.15	1.15	NO	224.95	113.8	1.255	
34	34 13C-OCDF	7.36e5	4.18e5	0.887	NO	10.12	41.57	41.57	1.22	1.22	NO	499.67	126.4	0.805	
35	35 37Cl-2,3,7,8-TCDD	2.06e5	4.69e5			10.12	25.73	25.75	1.03	1.03	NO	73.672	93.2	0.104	
36	36 13C-1,2,3,4-TCDD	4.69e5	4.69e5	0.800	NO	10.12	25.05	25.00	1.00	1.00	NO	197.61	100.0	0.474	
37	37 13C-1,2,3,4-TCDF	6.63e5	6.63e5	0.795	NO	10.12	23.19	23.10	1.00	1.00	NO	197.61	100.0	0.655	
38	38 13C-1,2,3,4,6,9-HxCDF	4.18e5	4.18e5	0.512	NO	10.12	33.88	33.95	1.00	1.00	NO	197.61	100.0	0.966	
39	39 Total Tetra-Dioxins		5.61e5			10.12	24.62		0.00		NO	6.7313		0.180	6.9063
40	40 Total Penta-Dioxins		4.51e5			10.12	29.96		0.00		NO	13.284		0.145	13.621
41	41 Total Hexa-Dioxins		0.00e0			10.12	33.63		0.00		NO	84.821		0.342	85.289
42	42 Total Hepta-Dioxins		2.95e5			10.12	37.64		0.00		NO	553.57		1.618	553.57
43	43 Total Tetra-Furans		7.10e5			10.12	23.61		0.00		NO	489.70		0.315	503.83
44	44 1st Func. Penta-Furans		0.00e0			10.12	27.09		0.00		NO	32.729		0.068	32.729
45	45 Total Penta-Furans		0.00e0			10.12	29.27		0.00		NO	678.57		0.488	678.57
46	46 Total Hexa-Furans		0.00e0			10.12	33.56		0.00		NO	1011.0		0.629	1011.0
47	47 Total Hepta-Furans		0.00e0			10.12	37.83		0.00		NO	727.15		0.935	727.15

Dataset: U:\VG12.PRO\Results\200315R2\200315R2-9.qld

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

Name: 200315R2_9, Date: 16-Mar-2020, Time: 06:20:14

Tetra-Dioxins

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	39 Total Tetra-Dioxins	26.11	0.976	YES	2.69e2	2.45e5	0.000	0.175
2	1 2,3,7,8-TCDD	25.74	0.752	NO	1.03e3	2.45e5	0.861	0.861
3	39 Total Tetra-Dioxins	25.45	0.860	NO	1.33e3	2.45e5	1.03	1.03
4	39 Total Tetra-Dioxins	23.86	0.822	NO	6.95e2	2.45e5	0.551	0.551
5	39 Total Tetra-Dioxins	23.58	0.679	NO	5.52e2	2.45e5	0.488	0.488
6	39 Total Tetra-Dioxins	21.81	0.867	NO	8.52e2	2.45e5	0.657	0.657
7	39 Total Tetra-Dioxins	21.42	0.807	NO	3.92e3	2.45e5	3.14	3.14

Penta-Dioxins

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	40 Total Penta-Dioxins	31.41	0.555	NO	3.74e2	1.73e5	0.499	0.499
2	2 1,2,3,7,8-PeCDD	31.02	0.588	NO	1.30e3	1.73e5	1.67	1.67
3	40 Total Penta-Dioxins	30.59	0.515	YES	2.74e2	1.73e5	0.000	0.338
4	40 Total Penta-Dioxins	30.21	0.548	NO	1.18e3	1.73e5	1.59	1.59
5	40 Total Penta-Dioxins	29.98	0.555	NO	6.11e2	1.73e5	0.814	0.814
6	40 Total Penta-Dioxins	29.90	0.556	NO	1.29e3	1.73e5	1.71	1.71
7	40 Total Penta-Dioxins	29.71	0.688	NO	2.15e3	1.73e5	2.51	2.51
8	40 Total Penta-Dioxins	29.17	0.568	NO	5.70e2	1.73e5	0.749	0.749
9	40 Total Penta-Dioxins	28.70	0.595	NO	2.93e3	1.73e5	3.74	3.74

Hexa-Dioxins

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	41 Total Hexa-Dioxins	33.77	1.213	NO	3.67e4	2.00e5	37.7	37.7
2	41 Total Hexa-Dioxins	33.52	1.373	NO	3.15e3	2.00e5	3.06	3.06
3	41 Total Hexa-Dioxins	32.95	1.241	NO	2.54e4	2.00e5	25.9	25.9
4	5 1,2,3,7,8,9-HxCDD	34.81	1.315	NO	5.19e3	1.97e5	5.34	5.34
5	41 Total Hexa-Dioxins	34.70	0.776	YES	4.61e2	2.00e5	0.000	0.469
6	4 1,2,3,6,7,8-HxCDD	34.54	1.233	NO	1.18e4	2.25e5	10.8	10.8
7	3 1,2,3,4,7,8-HxCDD	34.44	1.196	NO	2.05e3	1.79e5	2.05	2.05

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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	38.27	1.011	NO	1.97e5	1.53e5	261	261
2	42 Total Hepta-Dioxins	37.24	1.033	NO	2.23e5	1.53e5	292	292

Tetra-Furans

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	43 Total Tetra-Furans	24.30	0.773	NO	1.25e3	3.09e5	0.871	0.871
2	43 Total Tetra-Furans	24.04	0.786	NO	8.71e3	3.09e5	6.02	6.02
3	43 Total Tetra-Furans	23.70	0.753	NO	2.17e5	3.09e5	154	154
4	43 Total Tetra-Furans	23.10	0.766	NO	3.32e4	3.09e5	23.3	23.3
5	43 Total Tetra-Furans	22.79	0.770	NO	1.09e3	3.09e5	0.763	0.763
6	43 Total Tetra-Furans	22.64	0.682	NO	1.69e3	3.09e5	1.27	1.27
7	43 Total Tetra-Furans	22.20	0.778	NO	9.26e3	3.09e5	6.44	6.44
8	43 Total Tetra-Furans	22.02	0.717	NO	1.93e3	3.09e5	1.41	1.41
9	43 Total Tetra-Furans	21.84	0.743	NO	1.79e4	3.09e5	12.8	12.8
10	43 Total Tetra-Furans	21.40	0.739	NO	5.80e4	3.09e5	41.5	41.5
11	43 Total Tetra-Furans	21.03	0.792	NO	1.12e4	3.09e5	7.74	7.74
12	43 Total Tetra-Furans	20.50	0.752	NO	5.47e4	3.09e5	38.7	38.7
13	43 Total Tetra-Furans	19.94	0.767	NO	2.99e3	3.09e5	2.10	2.10
14	43 Total Tetra-Furans	19.43	0.668	NO	9.59e2	3.09e5	0.729	0.729
15	43 Total Tetra-Furans	26.95	0.988	YES	2.59e4	3.09e5	0.000	14.1
16	43 Total Tetra-Furans	25.45	0.762	NO	1.80e3	3.09e5	1.26	1.26
17	43 Total Tetra-Furans	25.18	0.781	NO	9.55e3	3.09e5	6.63	6.63
18	8 2,3,7,8-TCDF	24.76	0.761	NO	2.39e5	3.09e5	168	168
19	43 Total Tetra-Furans	24.63	0.751	NO	2.05e4	3.09e5	14.5	14.5
20	43 Total Tetra-Furans	24.51	0.829	NO	2.13e3	3.09e5	1.43	1.43

Penta-Furans function 1

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	44 1st Func. Penta-Furans	26.93	1.504	NO	5.76e4	3.69e5	32.7	32.7

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Penta-Furans

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	45 Total Penta-Furans	31.66	1.546	NO	1.16e4	3.69e5	6.52	6.52
2	10 2,3,4,7,8-PeCDF	30.70	1.540	NO	2.13e5	3.62e5	117	117
3	45 Total Penta-Furans	30.58	1.741	NO	4.01e3	3.69e5	2.15	2.15
4	45 Total Penta-Furans	29.95	1.553	NO	1.65e5	3.69e5	92.5	92.5
5	9 1,2,3,7,8-PeCDF	29.66	1.577	NO	4.79e5	3.76e5	261	261
6	45 Total Penta-Furans	29.48	1.528	NO	4.93e4	3.69e5	27.8	27.8
7	45 Total Penta-Furans	29.25	1.528	NO	1.50e4	3.69e5	8.47	8.47
8	45 Total Penta-Furans	28.62	1.542	NO	2.30e5	3.69e5	130	130
9	45 Total Penta-Furans	28.47	1.490	NO	6.71e3	3.69e5	3.82	3.82
10	45 Total Penta-Furans	30.73	1.591	NO	5.31e4	3.69e5	29.5	29.5

Hexa-Furans

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	14 1,2,3,7,8,9-HxCDF	35.16	1.193	NO	2.08e4	1.28e5	19.0	19.0
2	13 2,3,4,6,7,8-HxCDF	34.27	1.212	NO	4.38e4	1.44e5	35.0	35.0
3	12 1,2,3,6,7,8-HxCDF	33.69	1.172	NO	2.03e5	1.58e5	157	157
4	11 1,2,3,4,7,8-HxCDF	33.58	1.227	NO	7.45e5	1.45e5	594	594
5	46 Total Hexa-Furans	33.47	1.424	NO	4.96e3	1.44e5	3.59	3.59
6	46 Total Hexa-Furans	33.12	1.225	NO	8.84e4	1.44e5	68.2	68.2
7	46 Total Hexa-Furans	32.92	1.225	NO	1.65e3	1.44e5	1.28	1.28
8	46 Total Hexa-Furans	32.55	1.214	NO	1.01e5	1.44e5	78.5	78.5
9	46 Total Hexa-Furans	32.38	1.226	NO	2.20e4	1.44e5	17.0	17.0
10	46 Total Hexa-Furans	35.18	1.209	NO	4.92e4	1.44e5	38.2	38.2

Hepta-Furans

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	16 1,2,3,4,7,8,9-HpCDF	38.93	1.042	NO	8.82e4	7.59e4	114	114
2	47 Total Hepta-Furans	37.45	1.018	NO	2.08e5	8.82e4	265	265
3	47 Total Hepta-Furans	37.22	0.954	NO	3.99e3	8.82e4	5.26	5.26
4	15 1,2,3,4,6,7,8-HpCDF	36.86	1.008	NO	3.08e5	1.01e5	342	342

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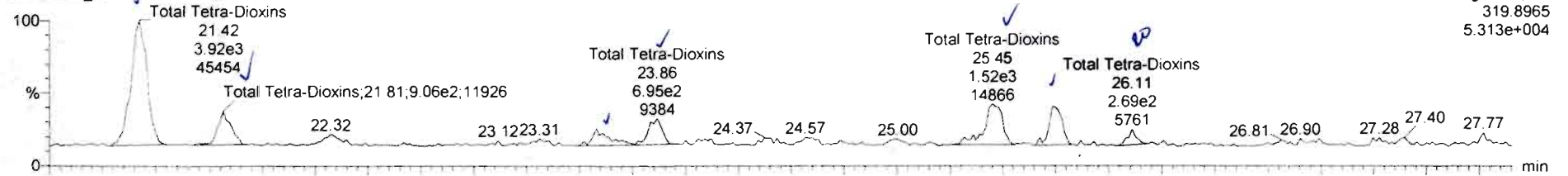
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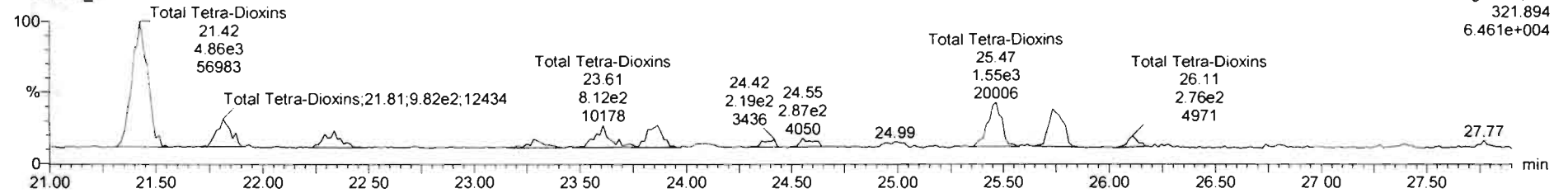
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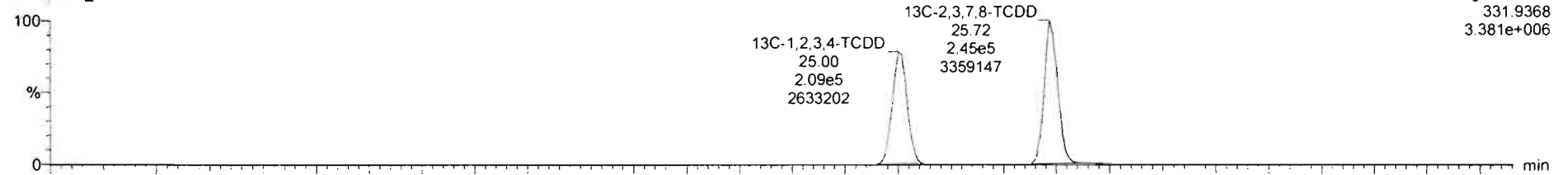


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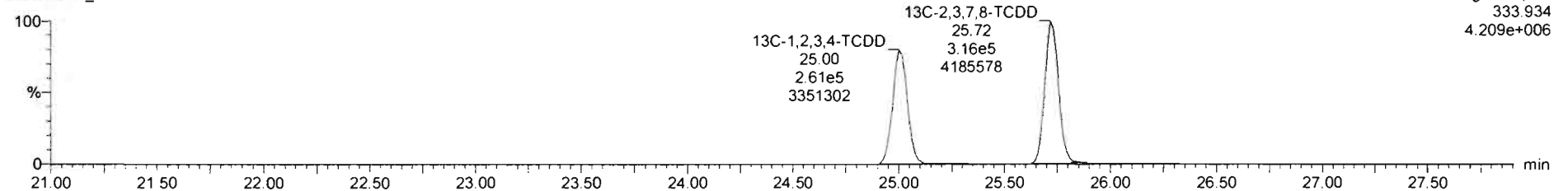


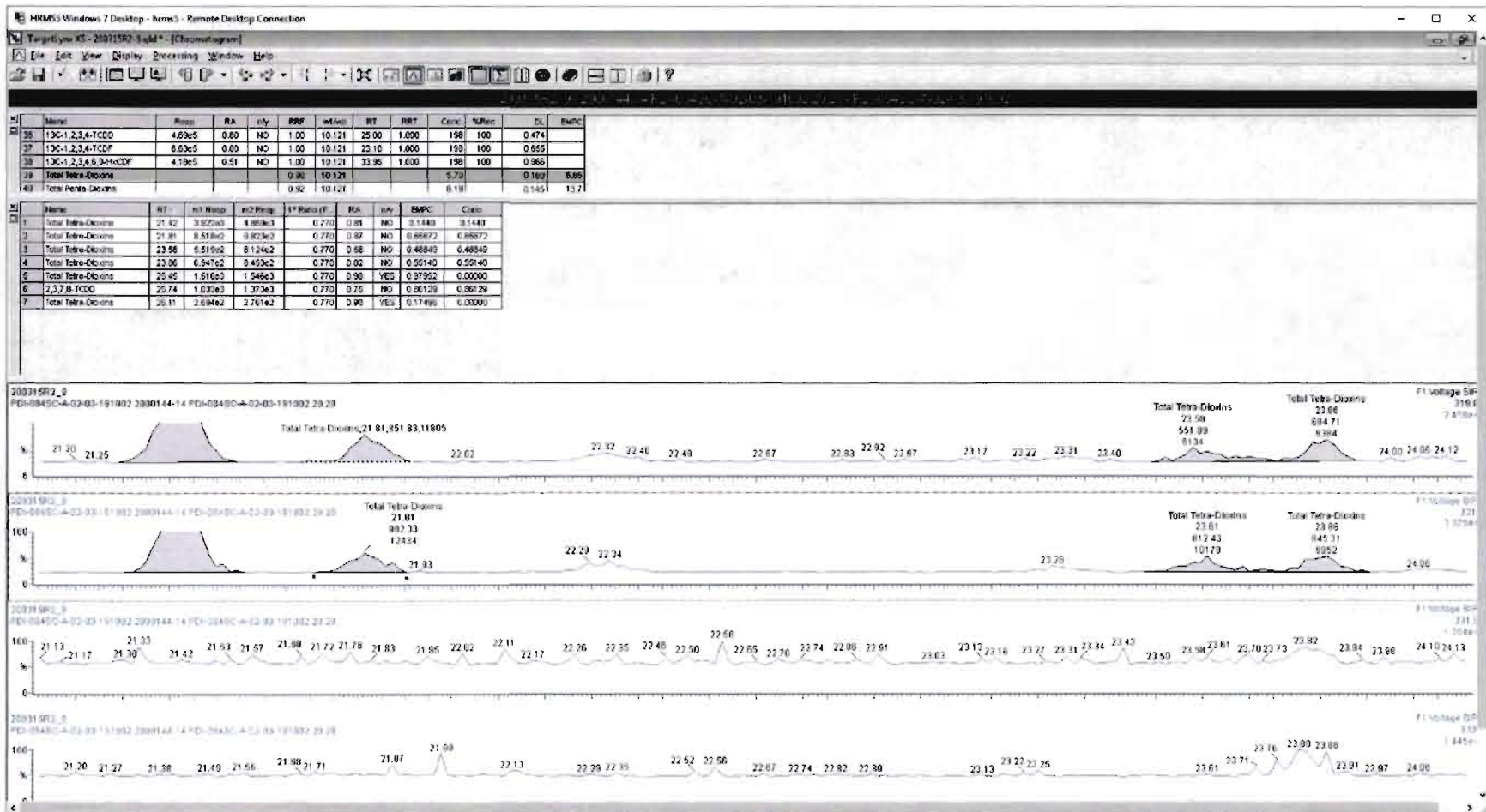
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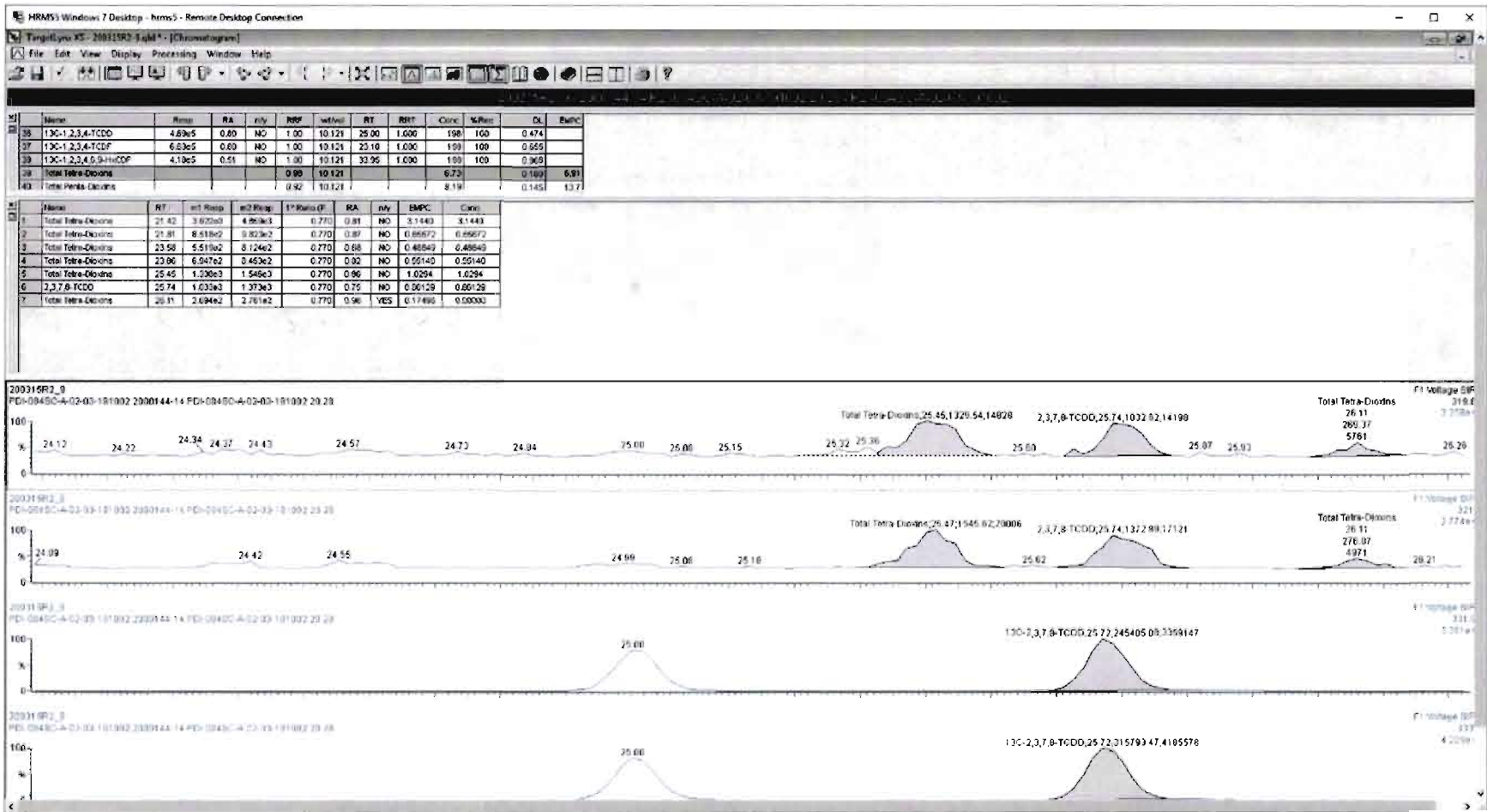
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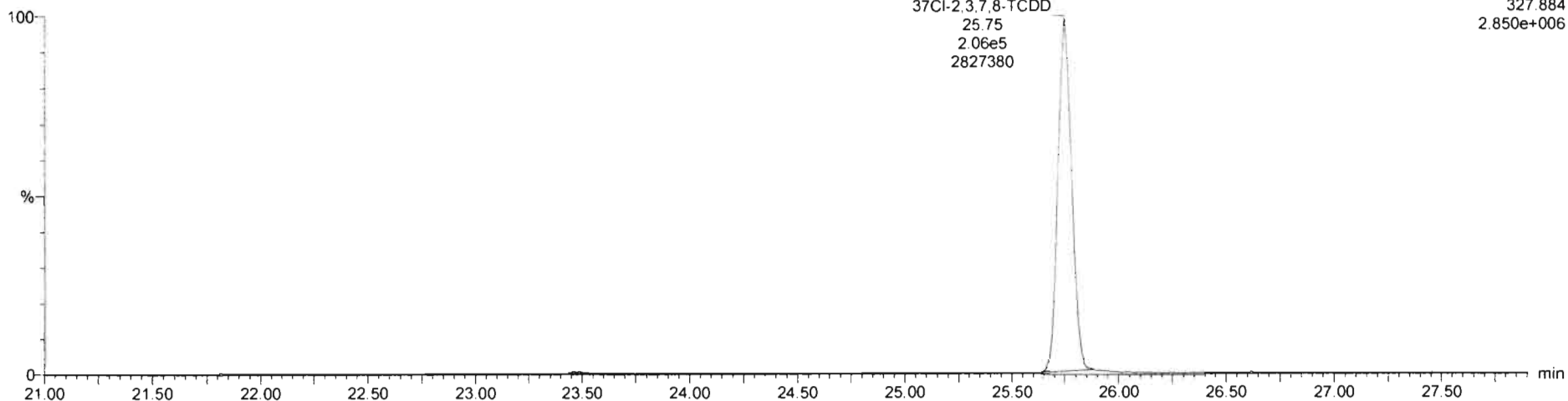
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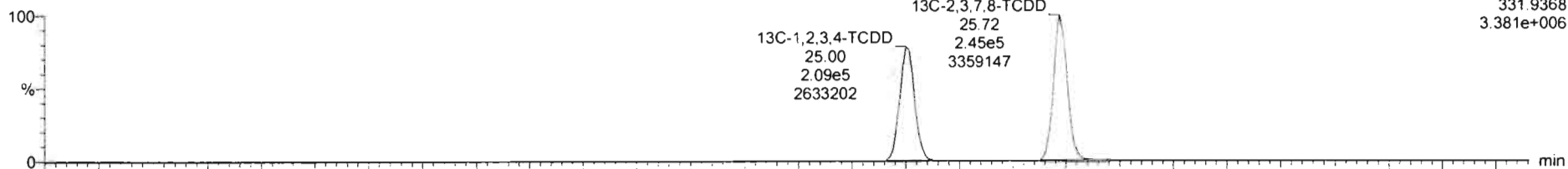
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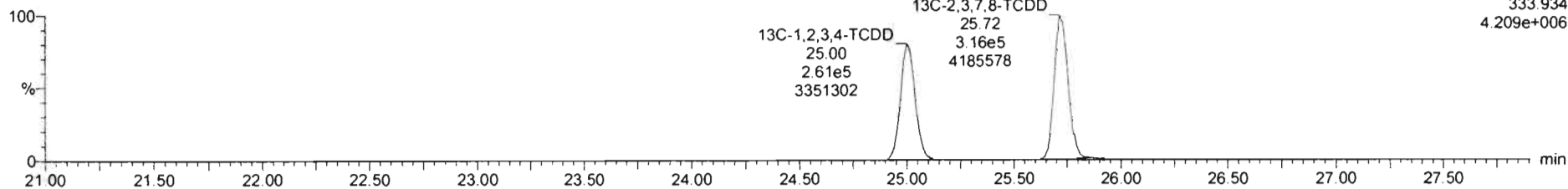


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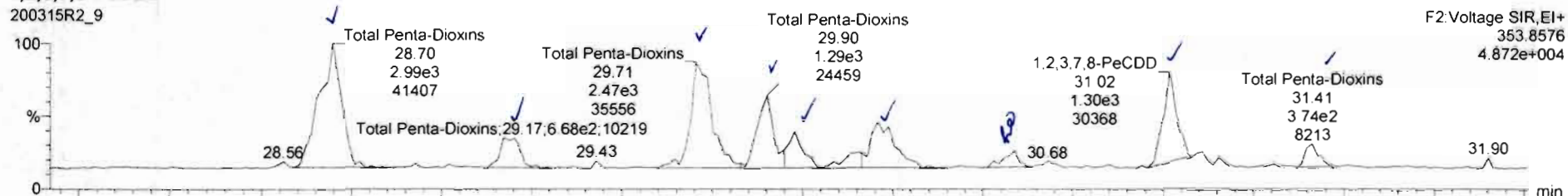
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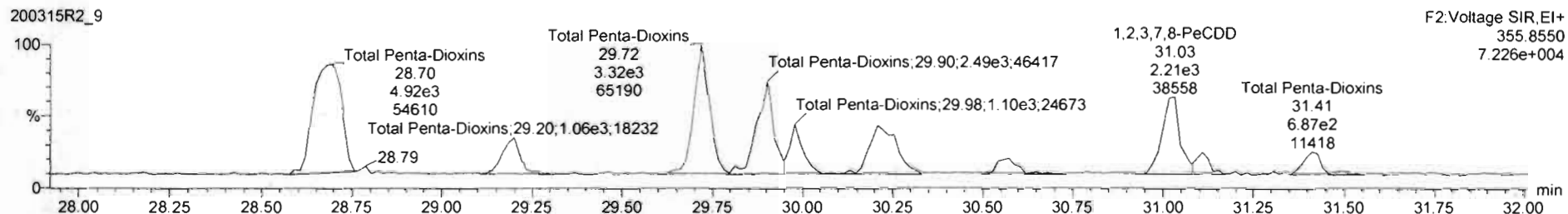
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1,2,3,7,8-PeCDD

200315R2_9

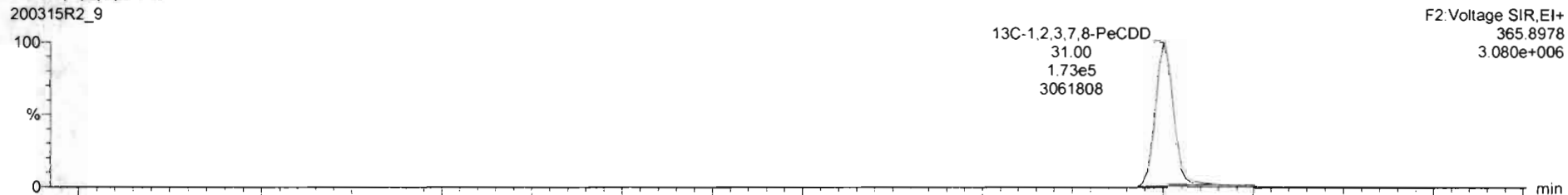


200315R2_9

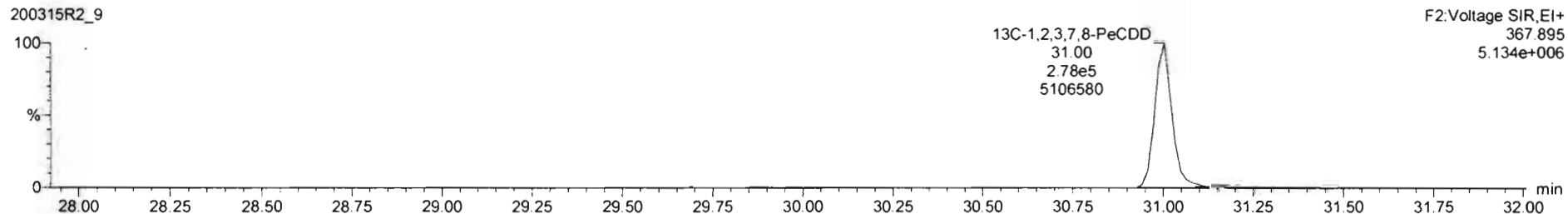


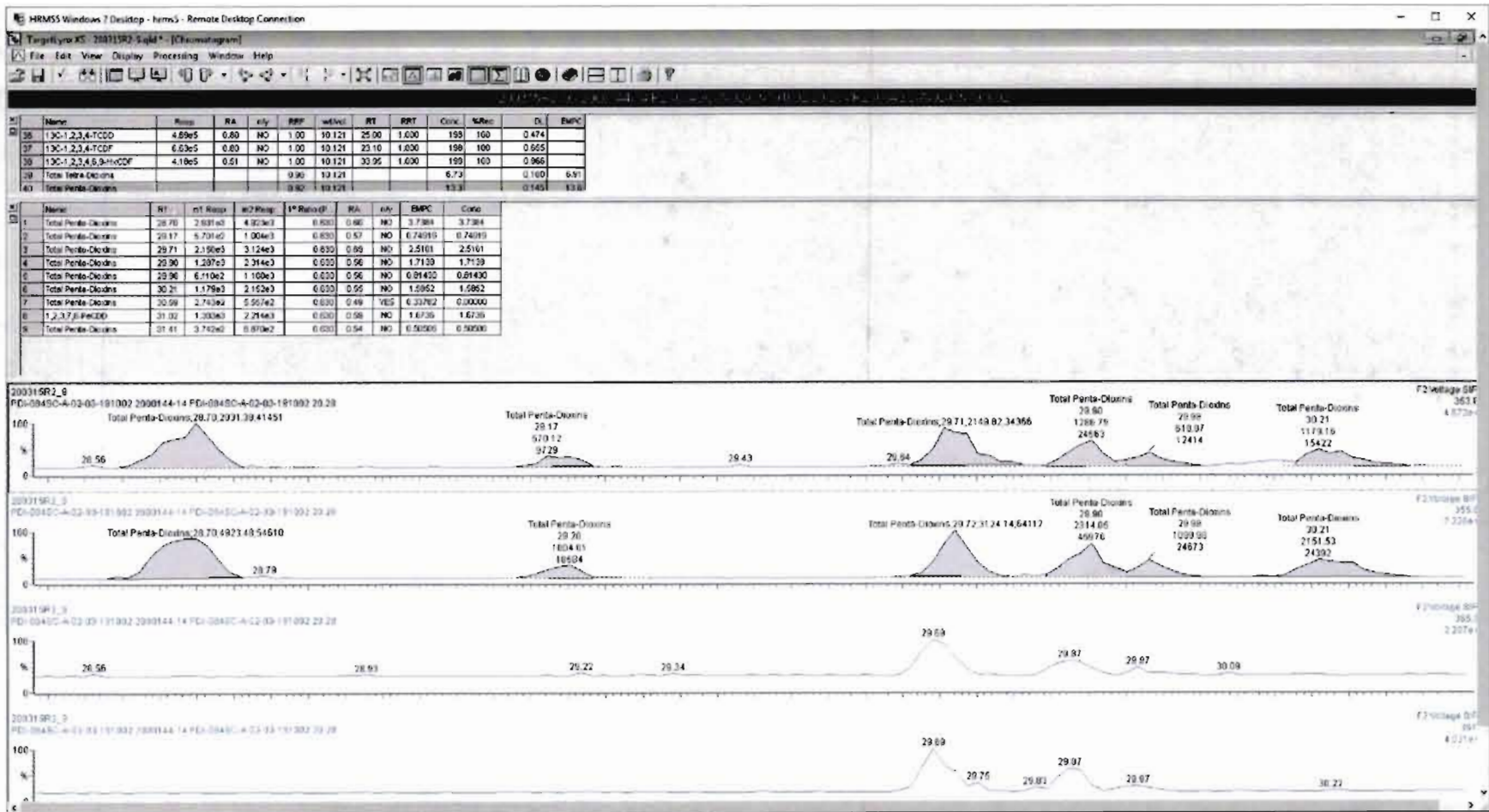
13C-1,2,3,7,8-PeCDD

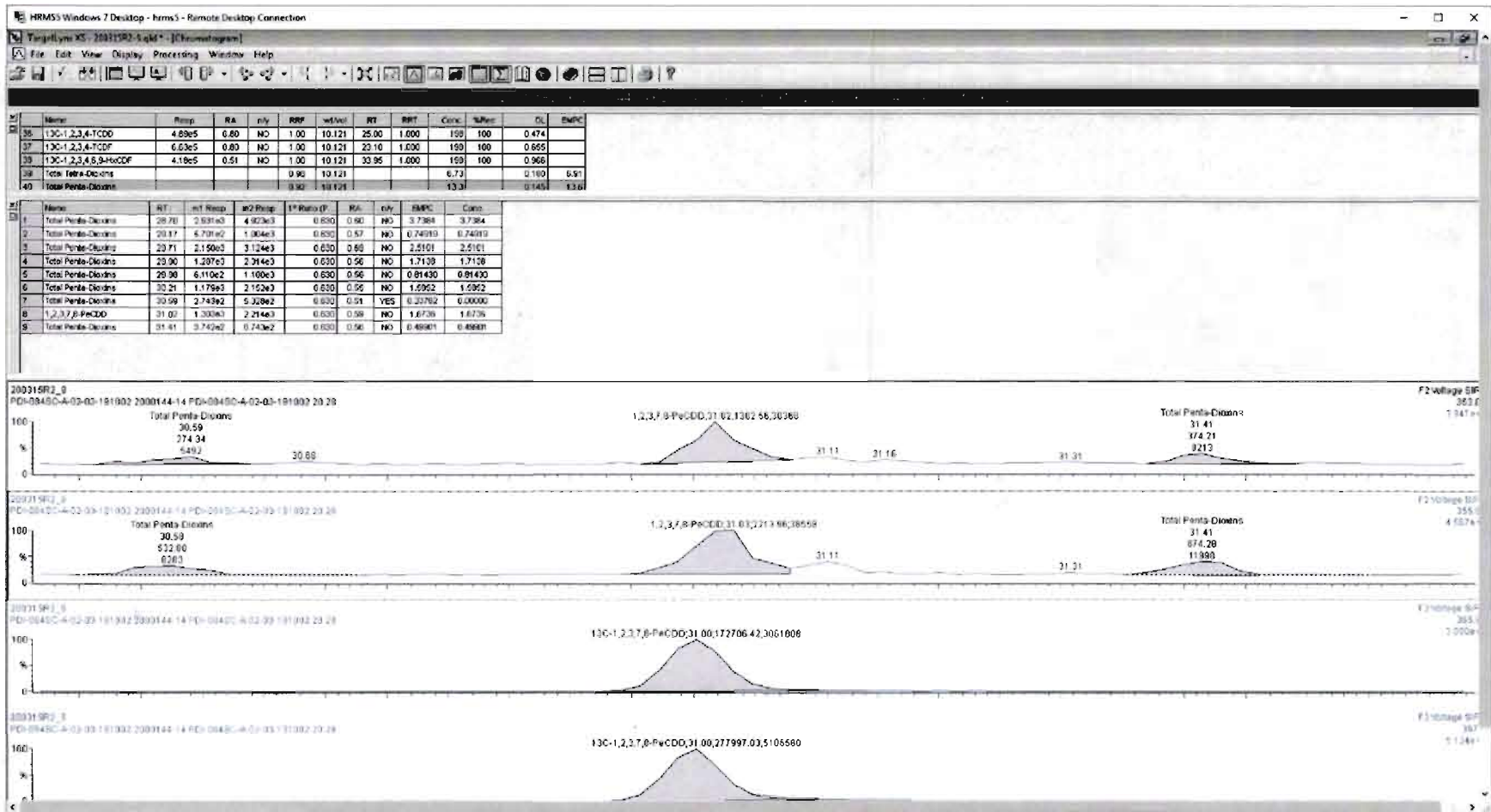
200315R2_9



200315R2_9







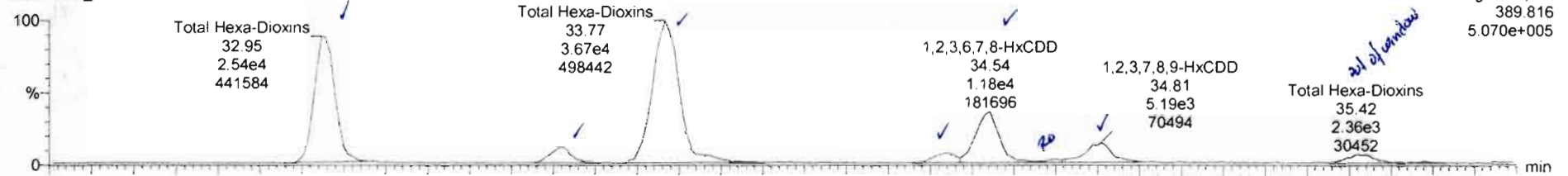
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Printed: Monday, March 16, 2020 08:51:00 Pacific Daylight Time

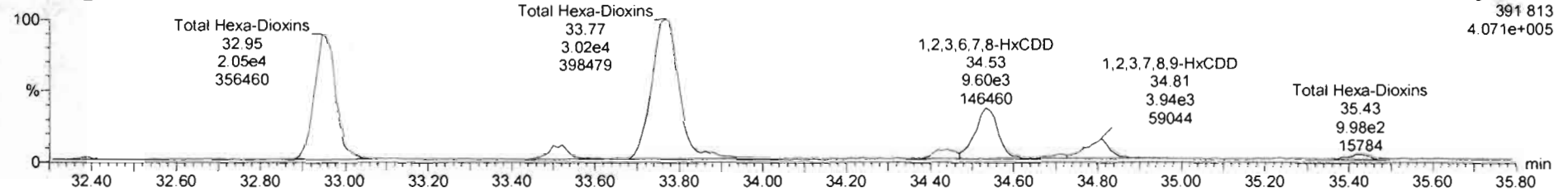
Name: 200315R2_9, Date: 16-Mar-2020, Time: 06:20:14, ID: 2000144-14 PDI-084SC-A-02-03-191002 20.28, Description: PDI-084SC-A-02-03-191002

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

200315R2_9

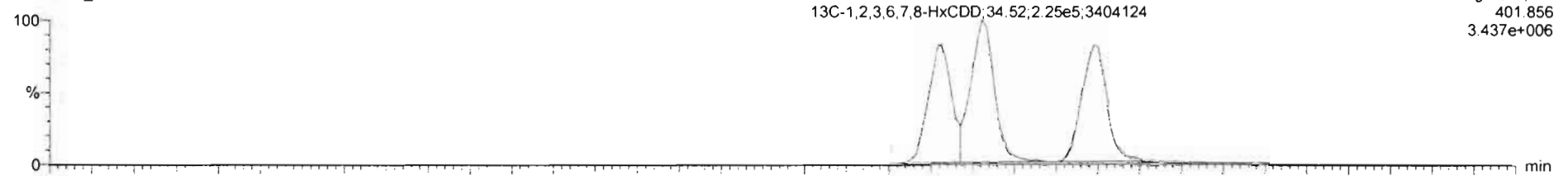


200315R2_9

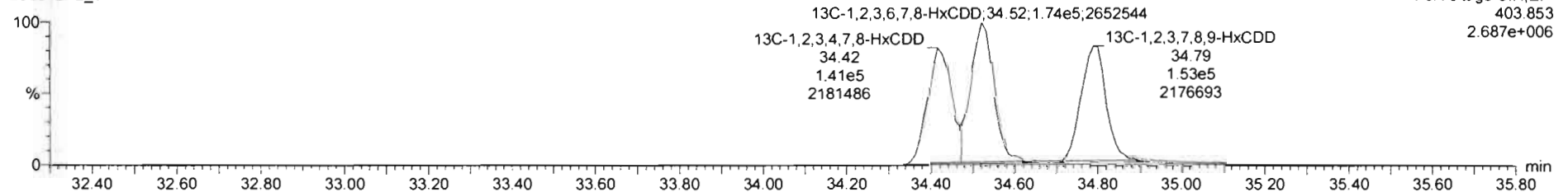


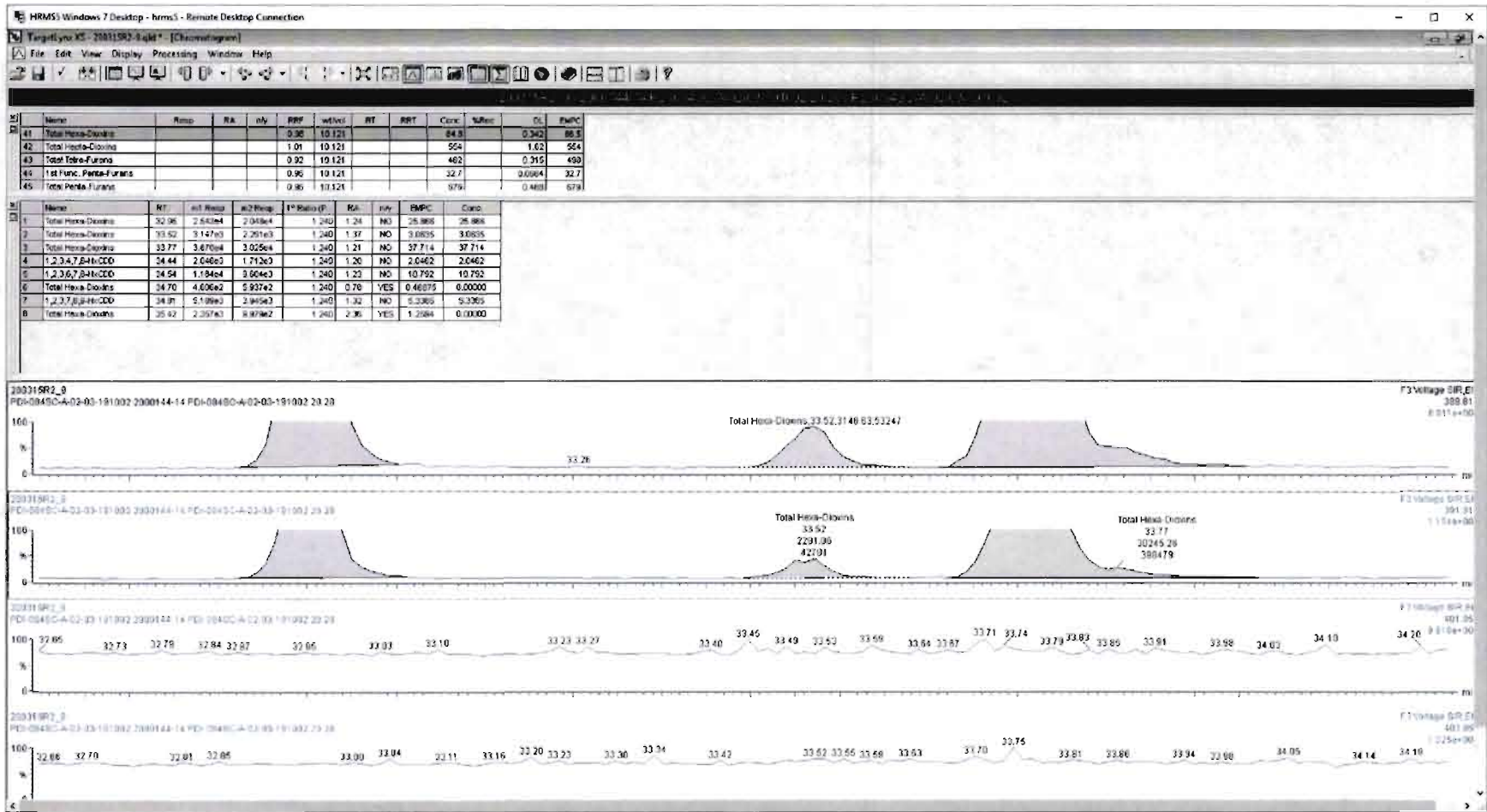
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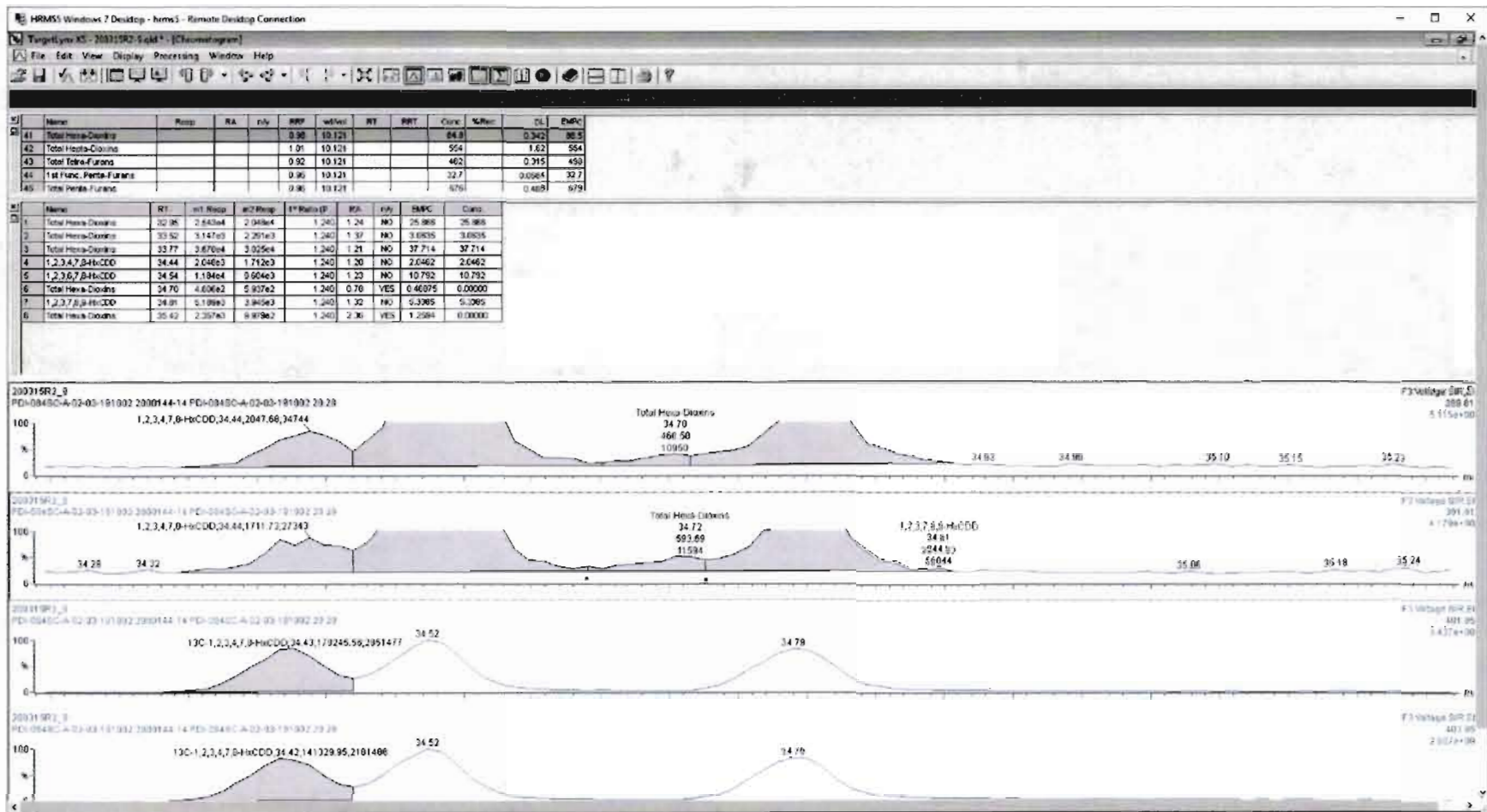
200315R2_9



200315R2_9







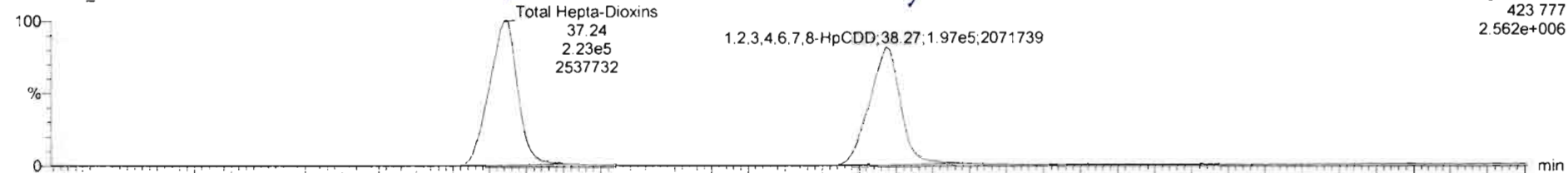
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Printed: Monday, March 16, 2020 08:51:00 Pacific Daylight Time

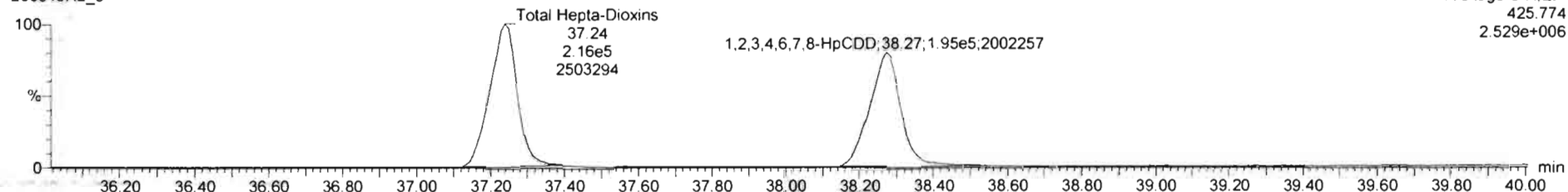
Name: 200315R2_9, Date: 16-Mar-2020, Time: 06:20:14, ID: 2000144-14 PDI-084SC-A-02-03-191002 20.28, Description: PDI-084SC-A-02-03-191002

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

200315R2_9

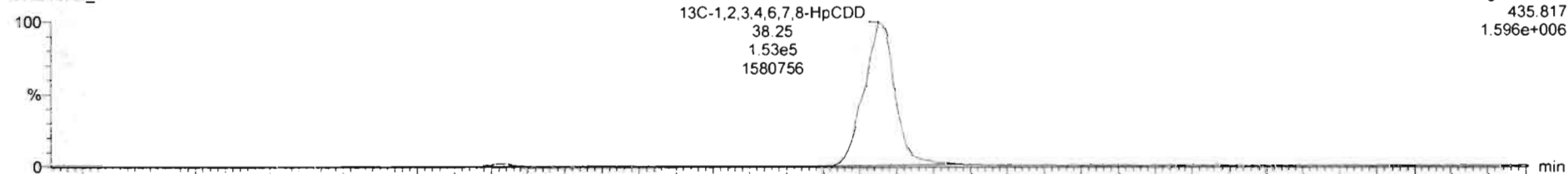


200315R2_9

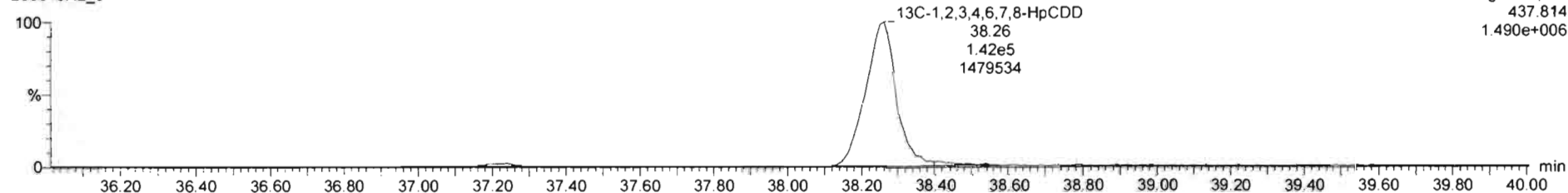


13C-1,2,3,4,6,7,8-HpCDD

200315R2_9



200315R2_9

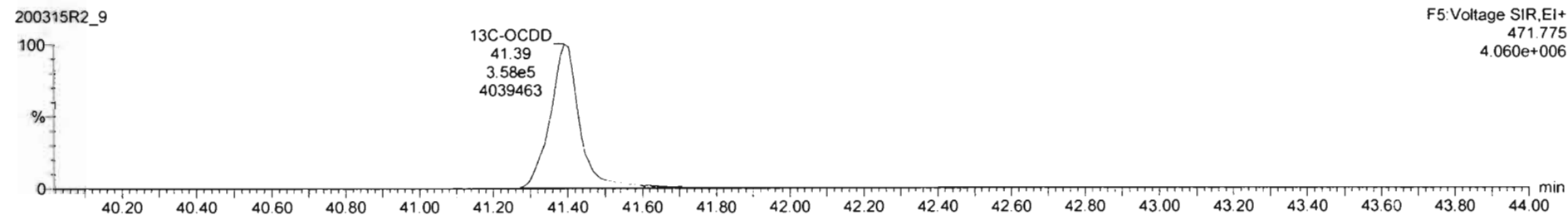
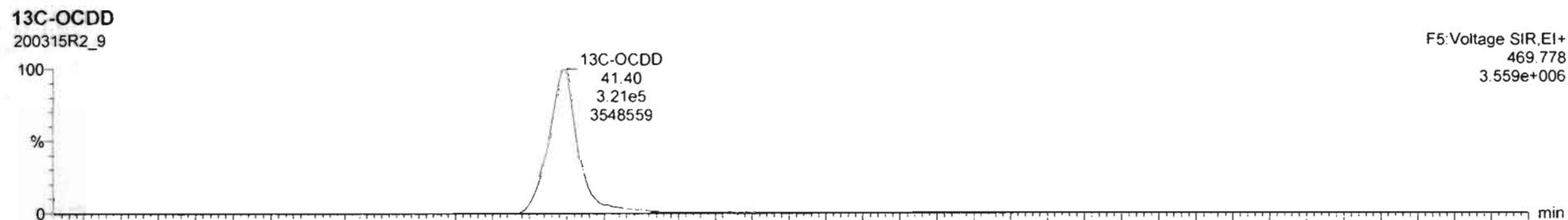
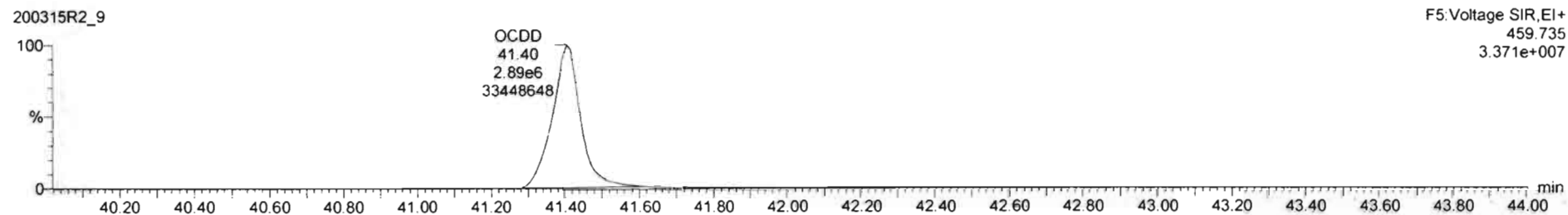
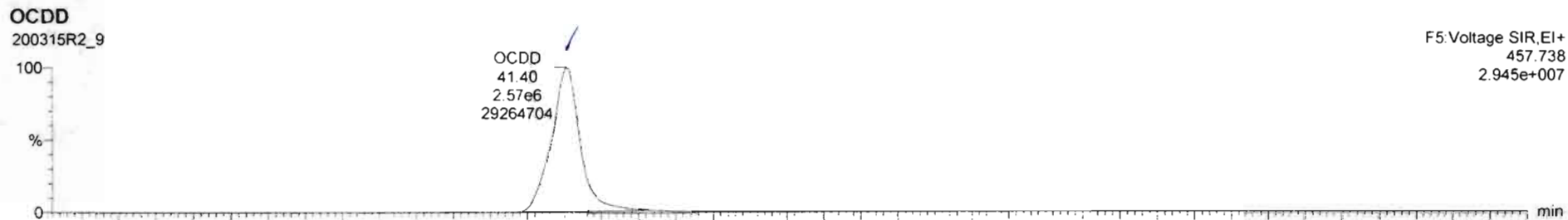


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Printed: Monday, March 16, 2020 08:51:00 Pacific Daylight Time

Name: 200315R2_9, Date: 15-Mar-2020, Time: 06:20:14, ID: 2000144-14 PDI-084SC-A-02-03-191002 20.28, Description: PDI-084SC-A-02-03-191002

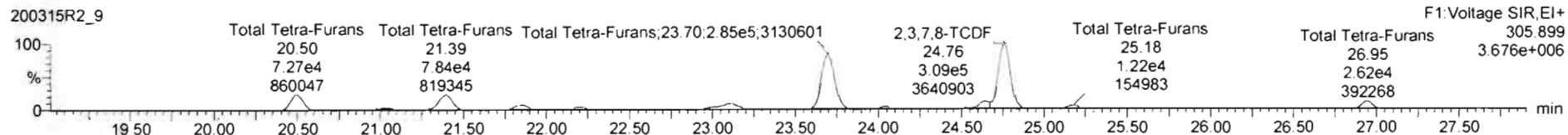
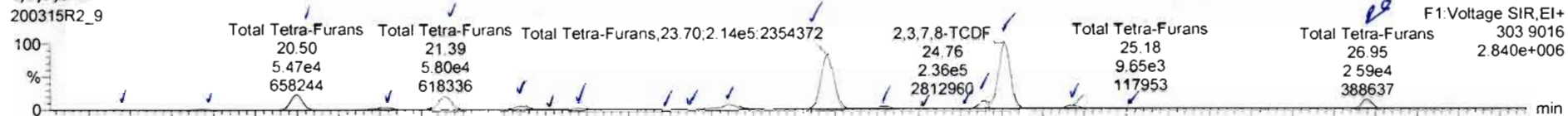


Dataset: Untitled

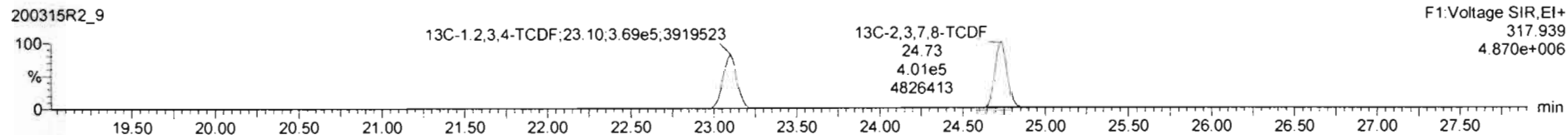
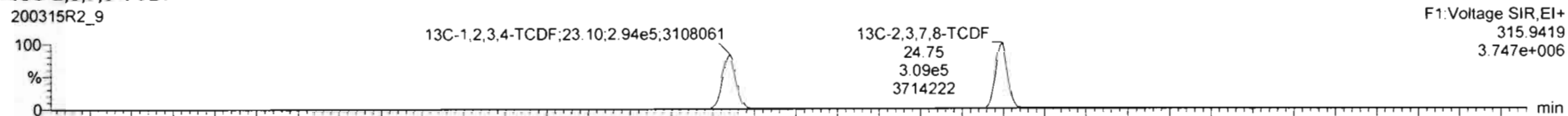
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Name: 200315R2_9, Date: 16-Mar-2020, Time: 08:20:14, ID: 2000144-14 PDI-084SC-A-02-03-191002 20.28, Description: PDI-084SC-A-02-03-191002

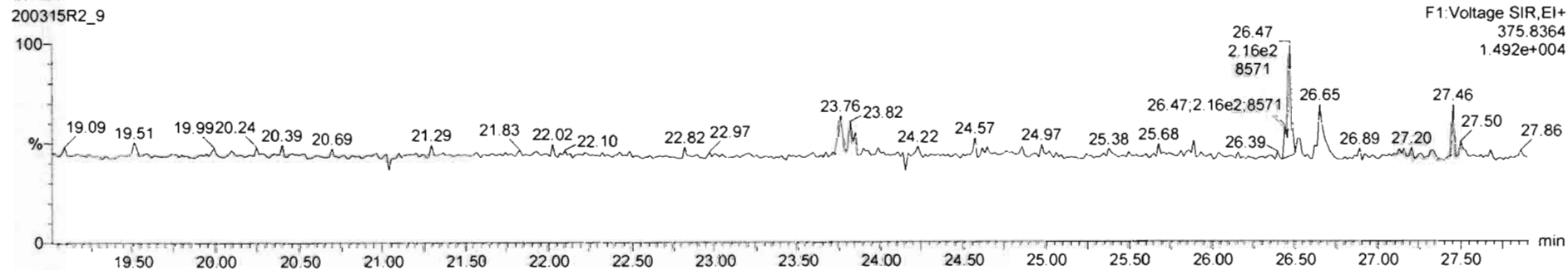
2,3,7,8-TCDF

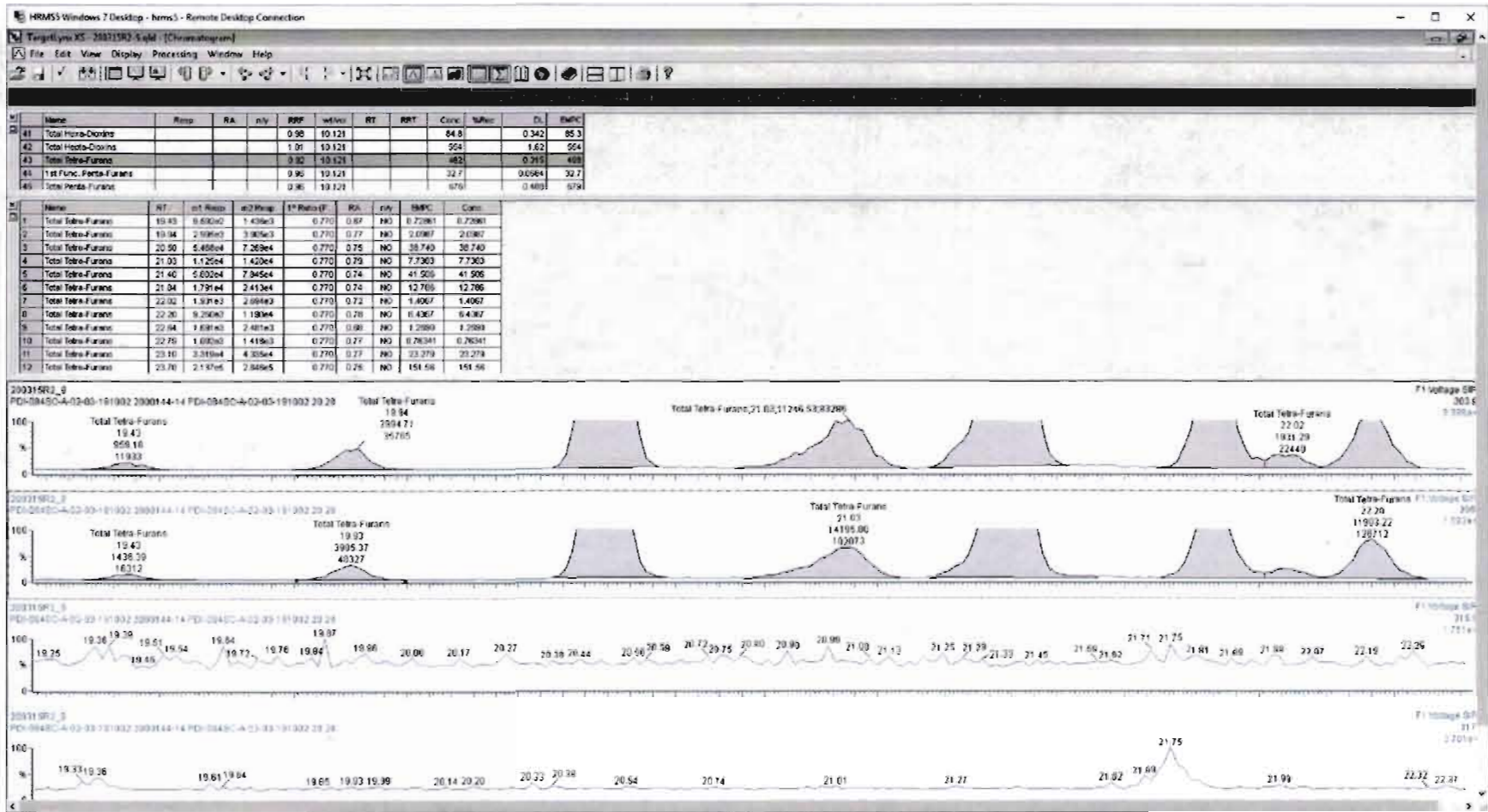


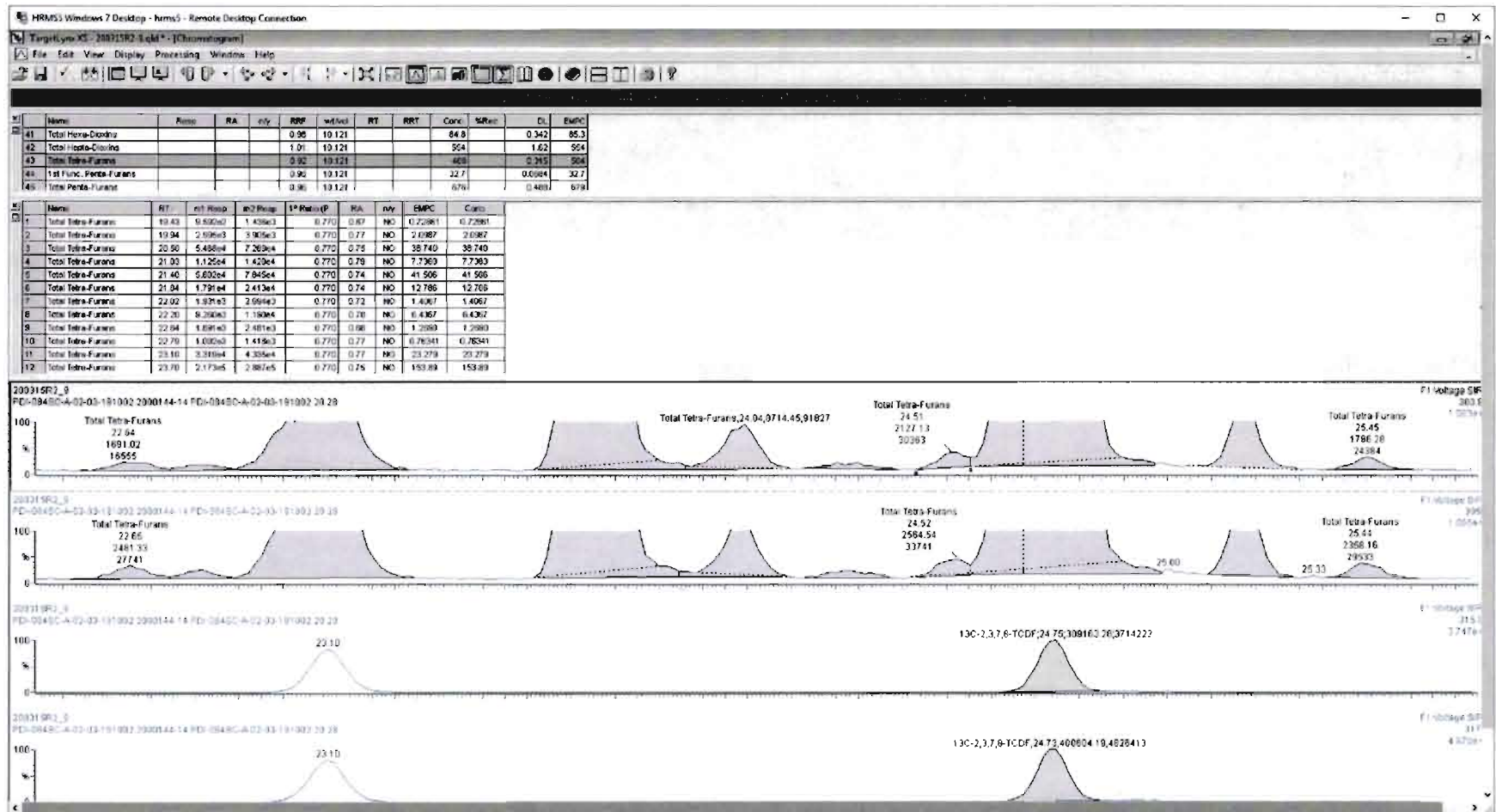
13C-2,3,7,8-TCDF



DPE1







Dataset: Untitled

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Printed: Monday, March 16, 2020 08:51:00 Pacific Daylight Time

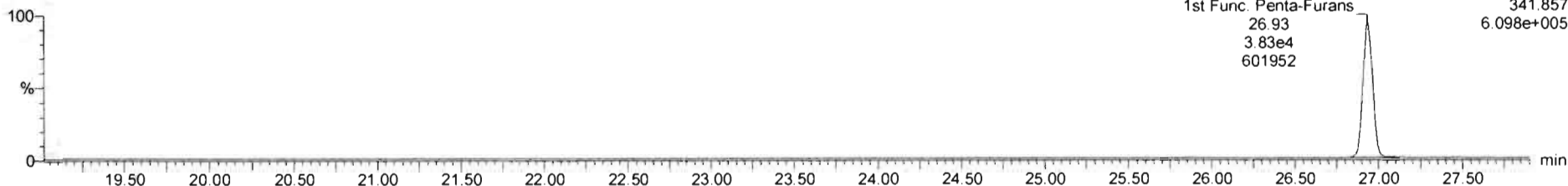
Name: 200315R2_9, Date: 16-Mar-2020, Time: 06:20:14, ID: 2000144-14 PDI-084SC-A-02-03-191002 20.28, Description: PDI-084SC-A-02-03-191002

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200315R2_9

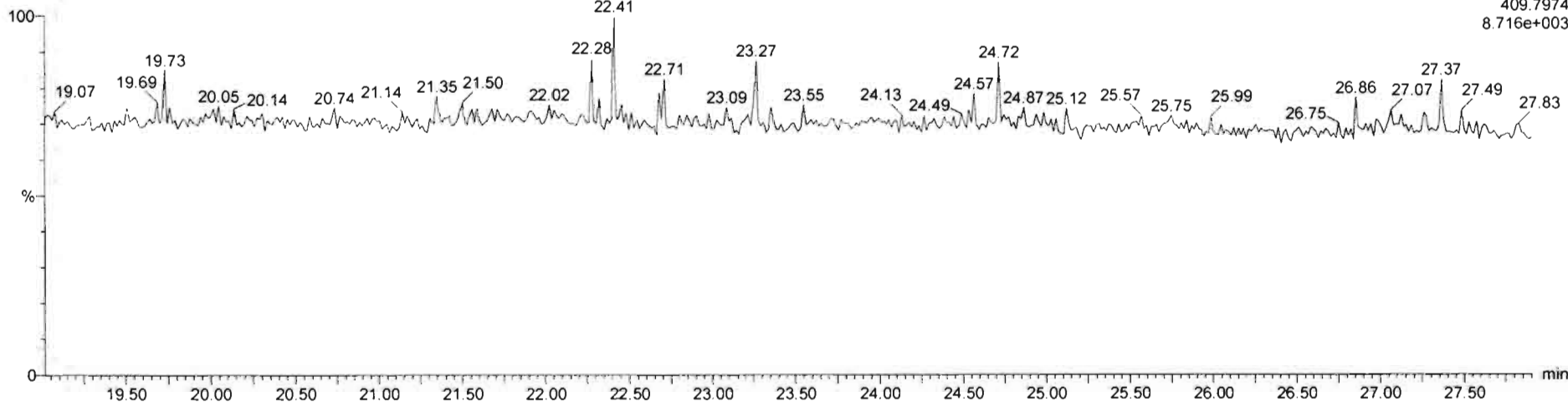


200315R2_9



DPE6

200315R2_9

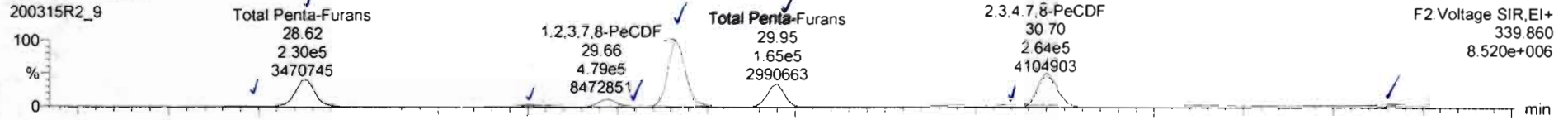


Dataset: Untitled

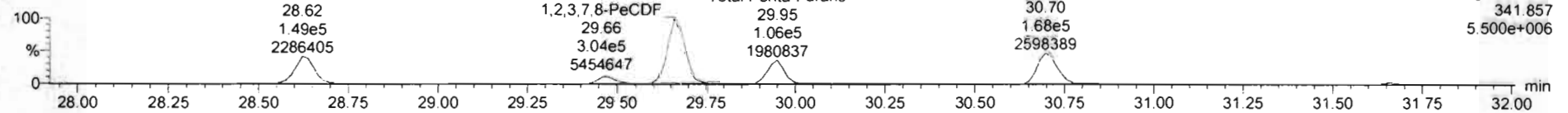
Last Altered: Monday, March 16, 2020 08:44:13 Pacific Daylight Time
Printed: Monday, March 16, 2020 08:51:00 Pacific Daylight Time

Name: 200315R2_9, Date: 16-Mar-2020, Time: 06:20:14, ID: 2000144-14 PDI-084SC-A-02-03-191002 20.28, Description: PDI-084SC-A-02-03-191002

1,2,3,7,8-PeCDF



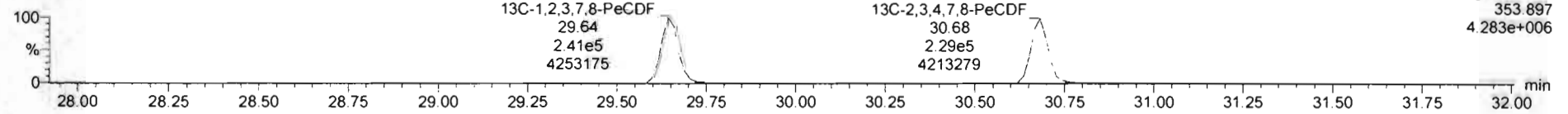
200315R2_9



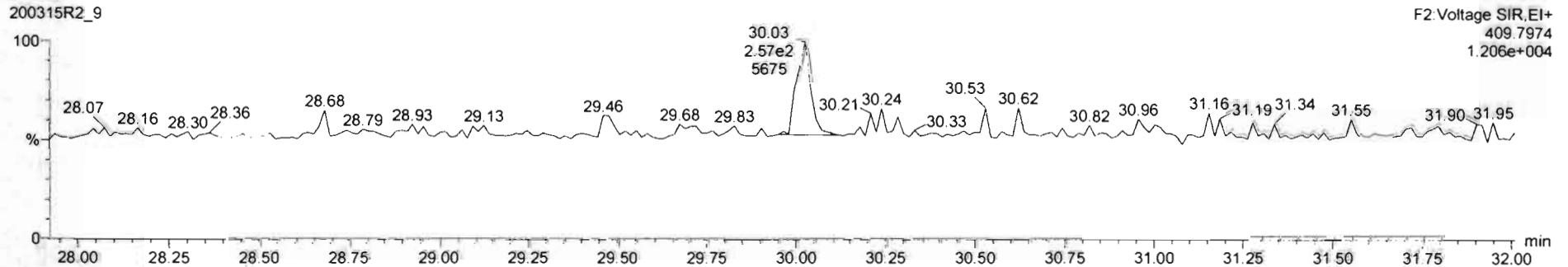
13C-1,2,3,7,8-PeCDF

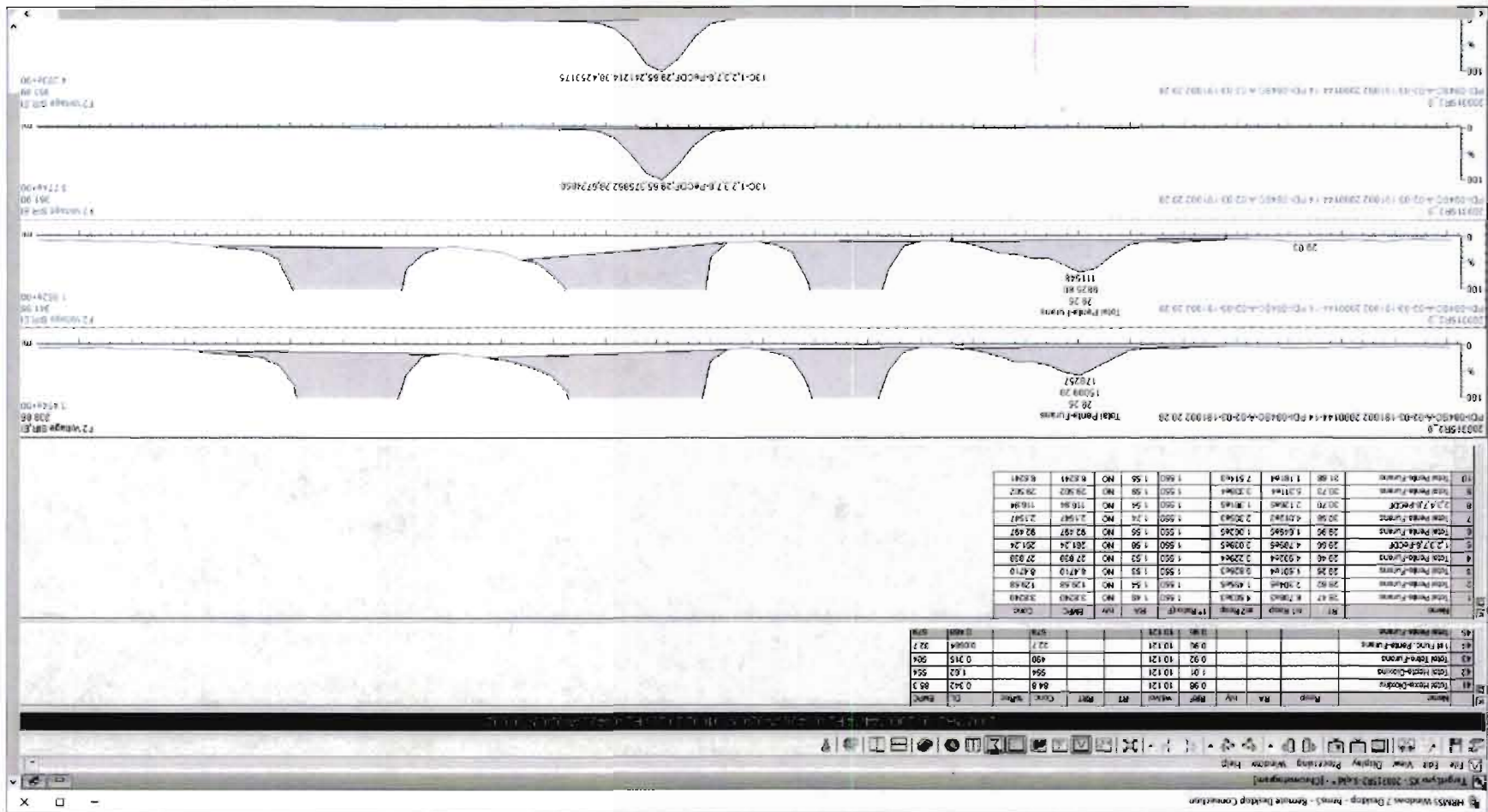


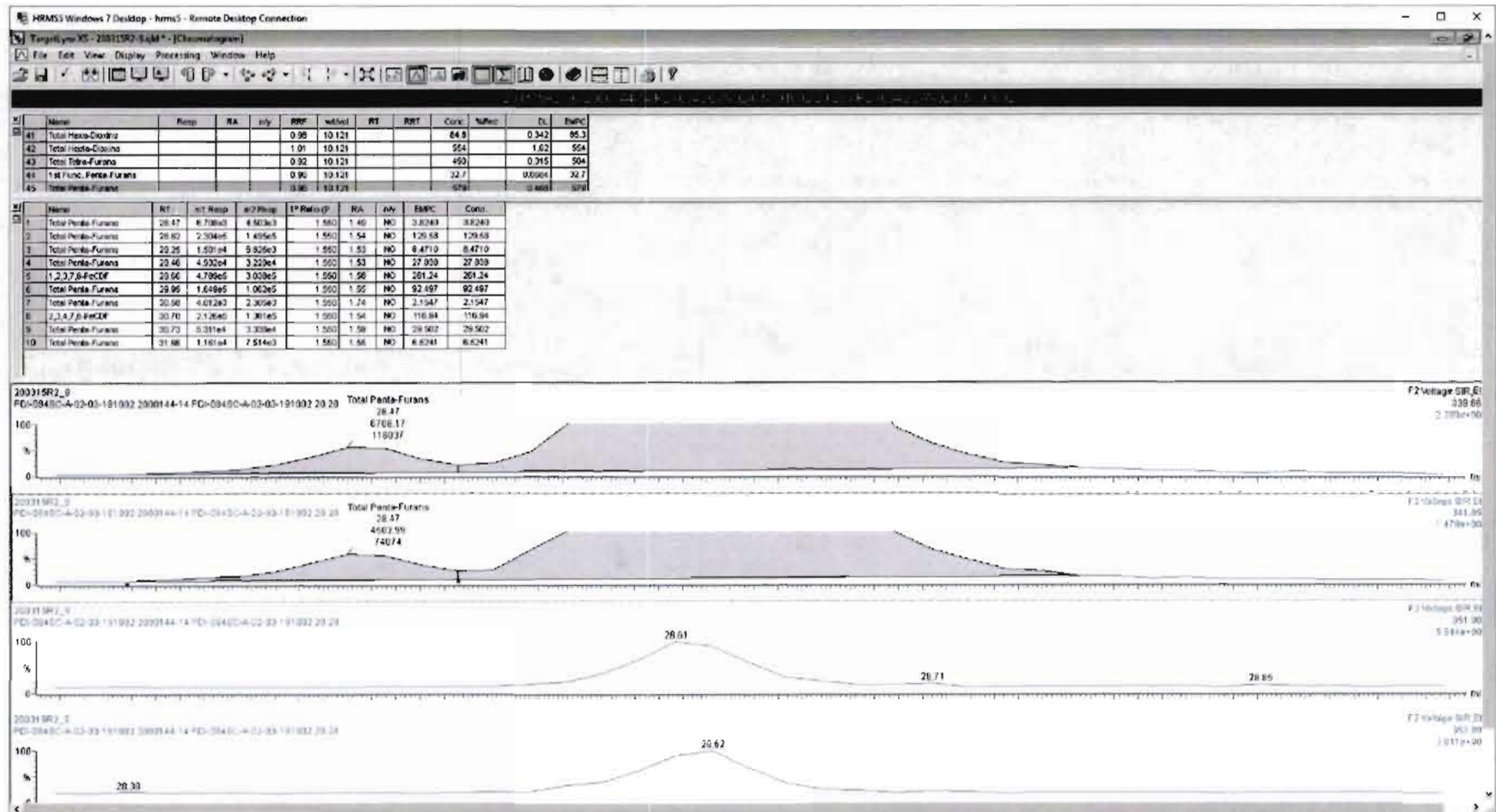
200315R2_9

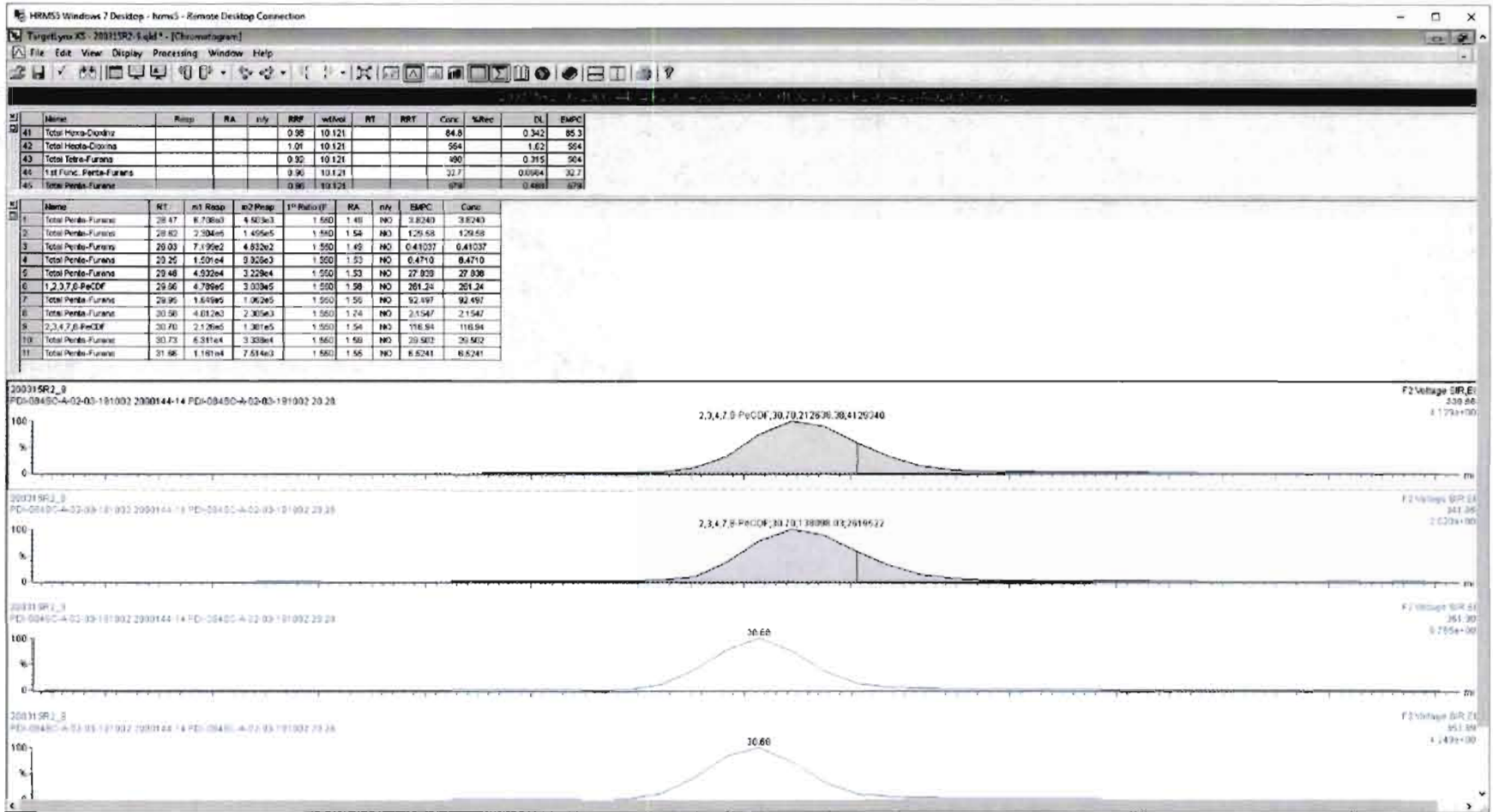


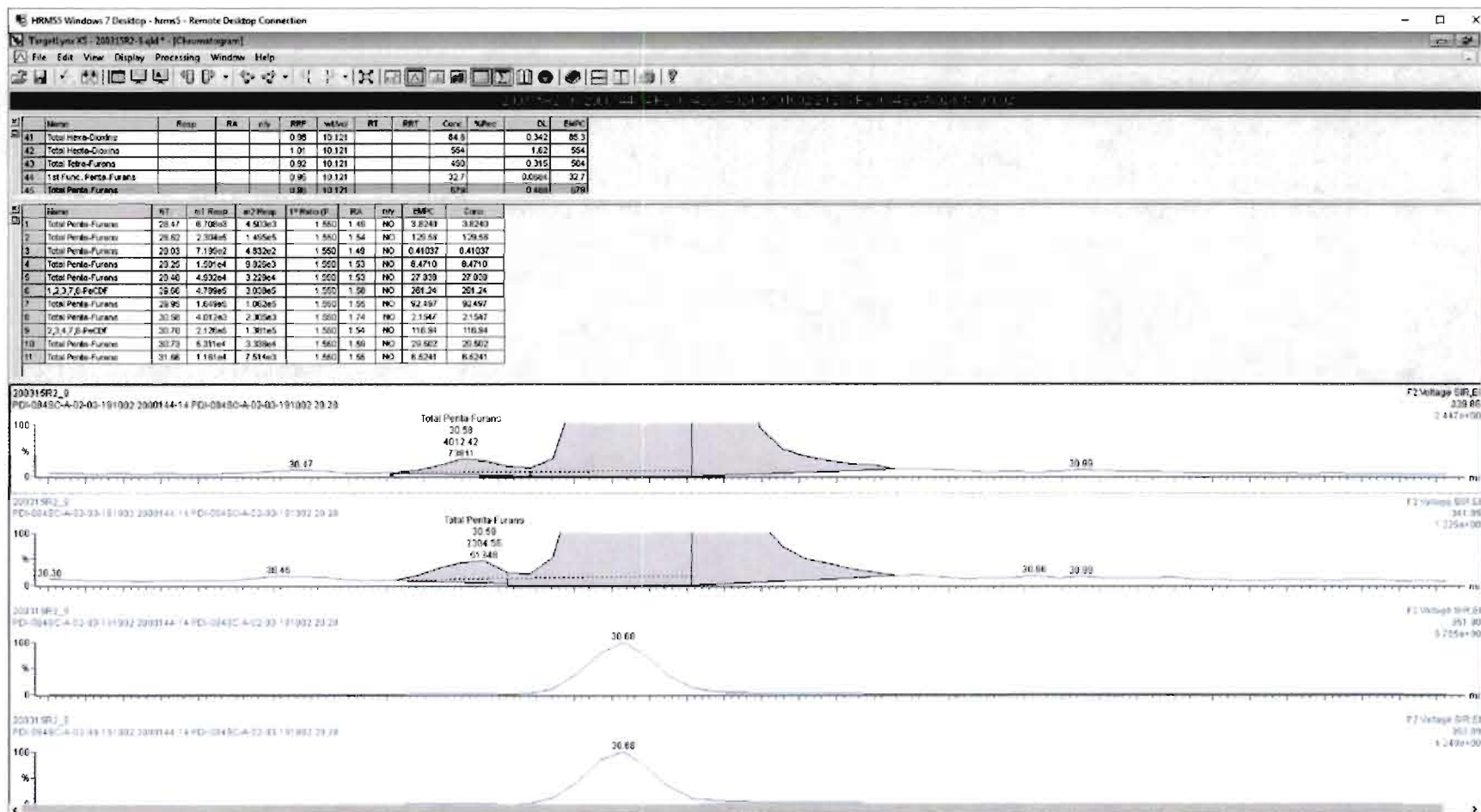
DPE2











Dataset: Untitled

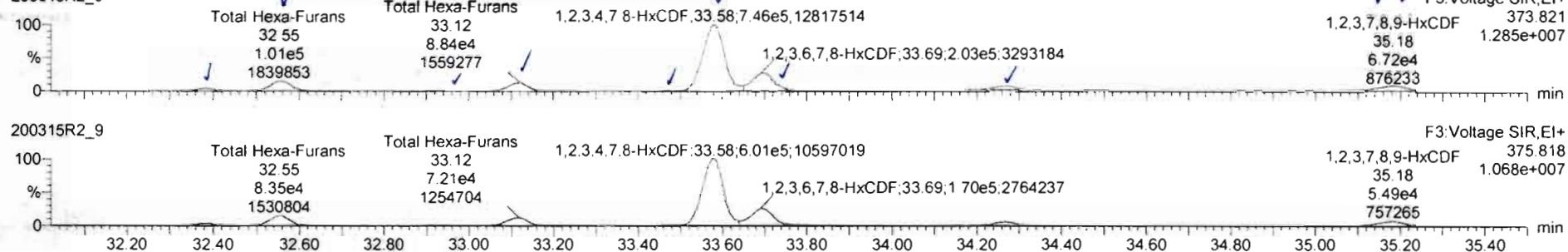
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Printed: Monday, March 16, 2020 08:51:00 Pacific Daylight Time

Name: 200315R2_9, Date: 16-Mar-2020, Time: 06:20:14, ID: 2000144-14 PDI-084SC-A-02-03-191002 20.28, Description: PDI-084SC-A-02-03-191002

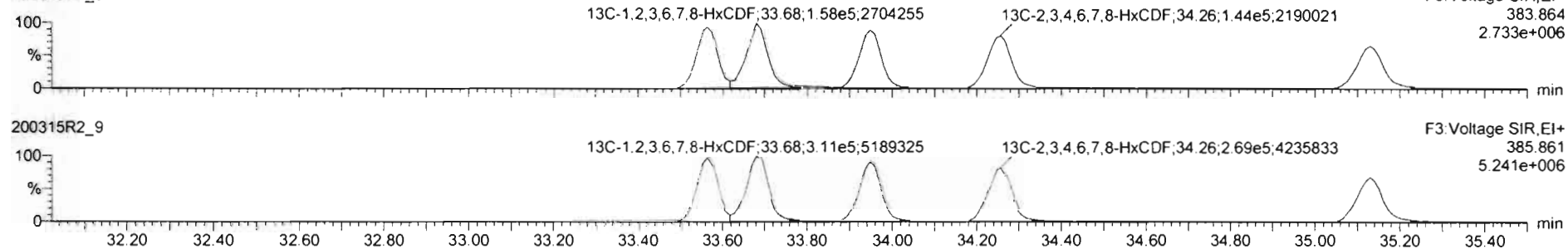
1,2,3,4,7,8-HxCDF

200315R2_9



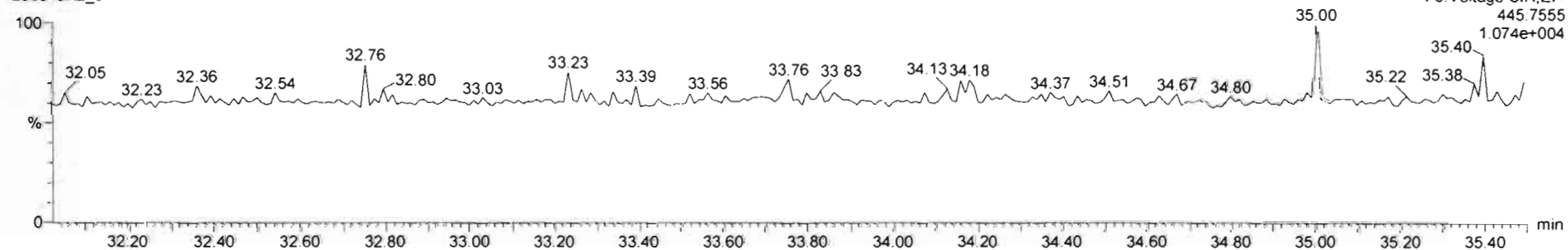
13C-1,2,3,4,7,8-HxCDF

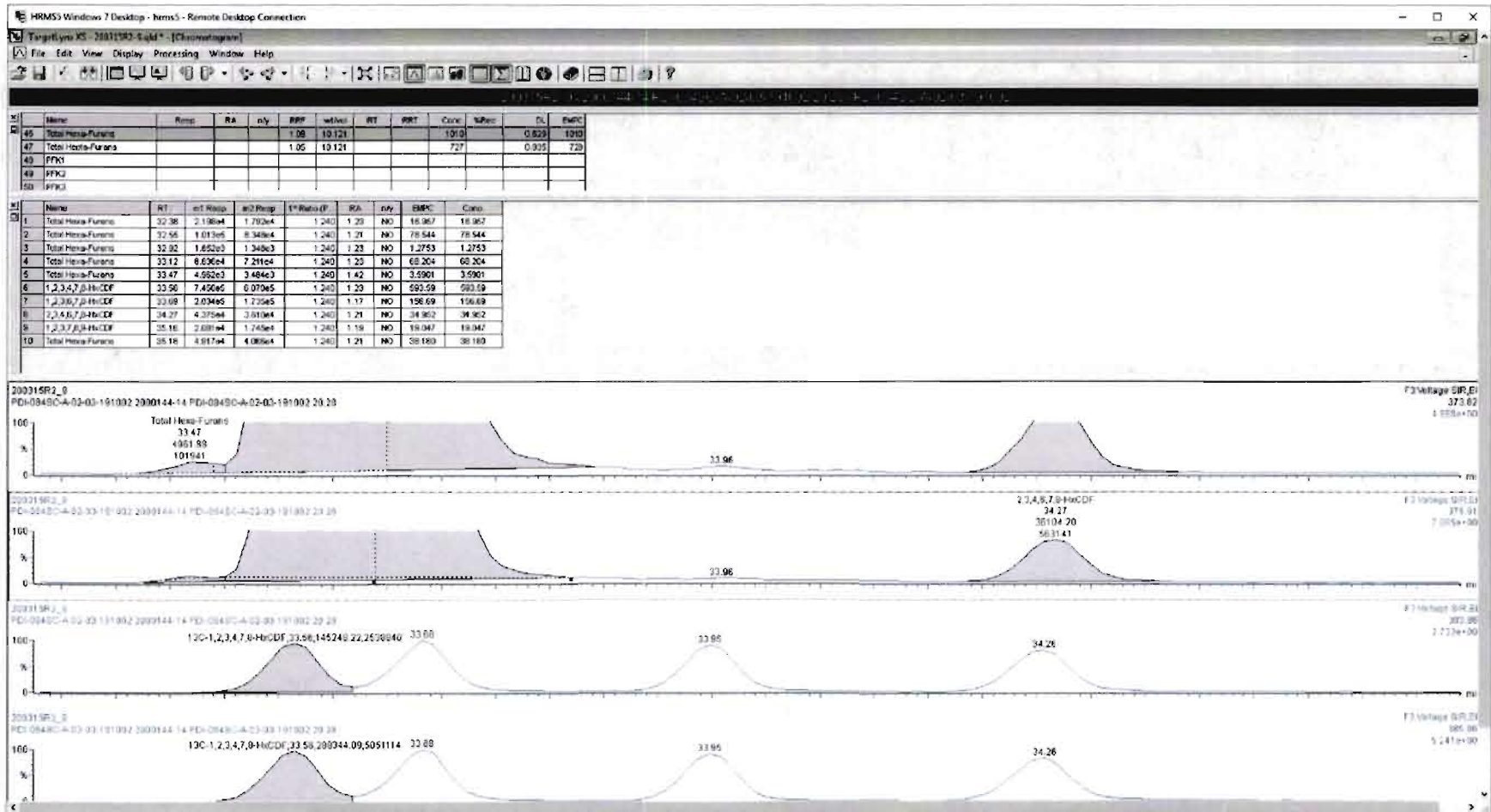
200315R2_9

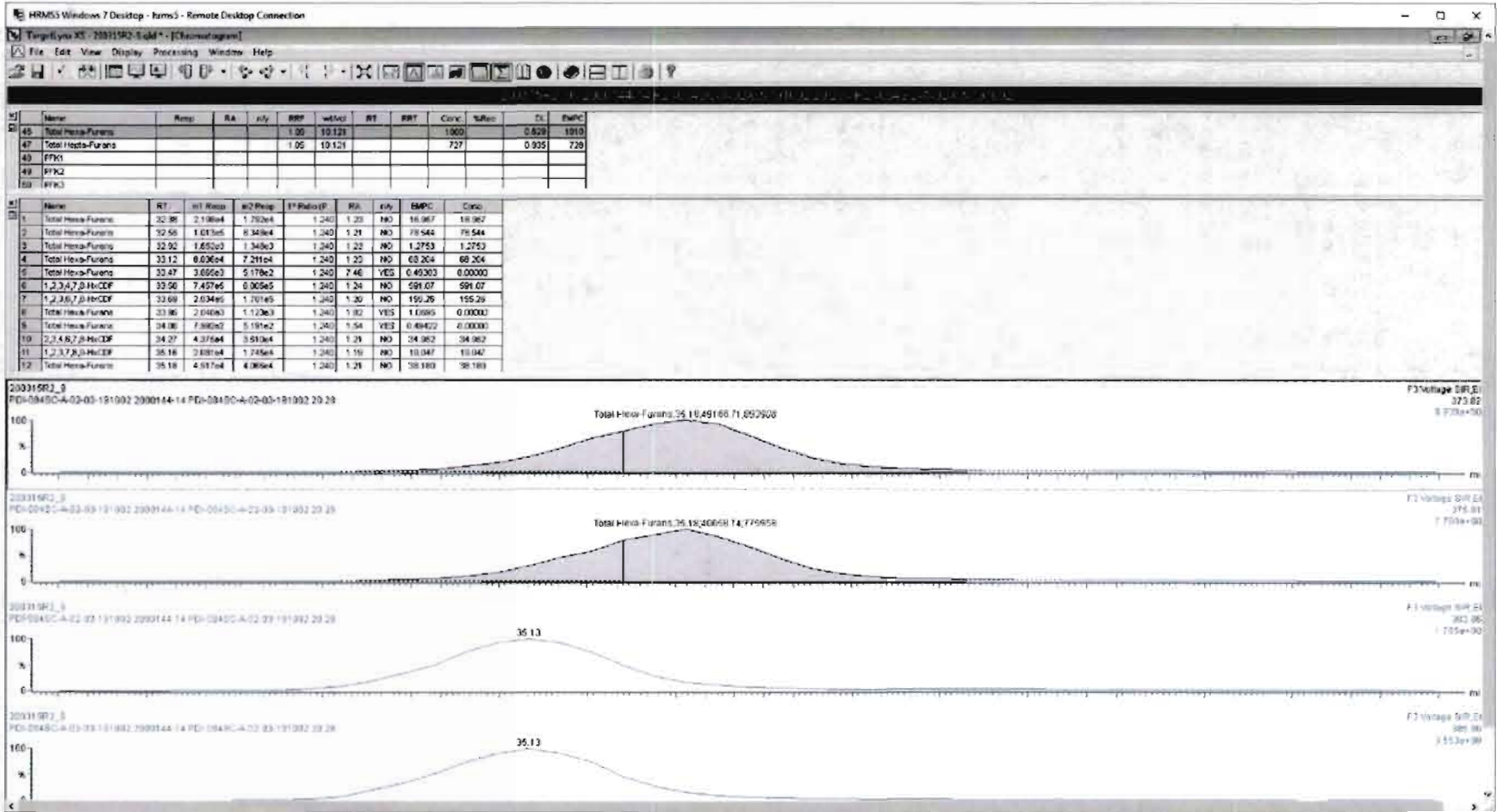


DPE3

200315R2_9





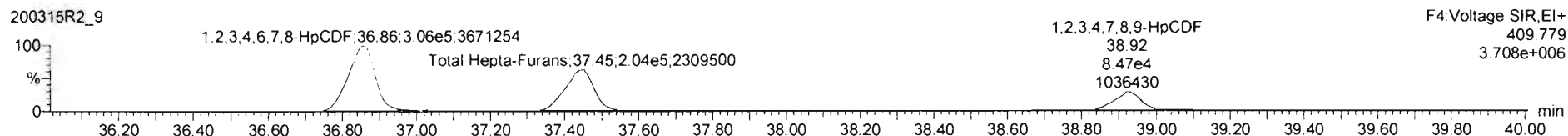


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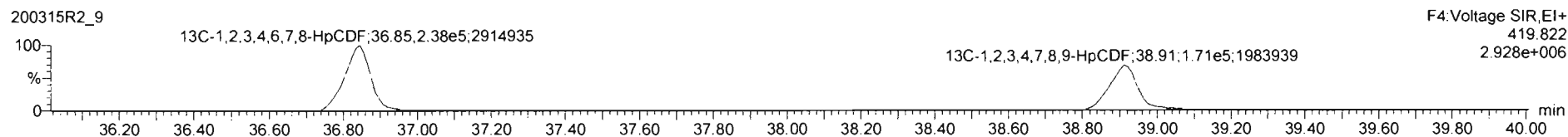
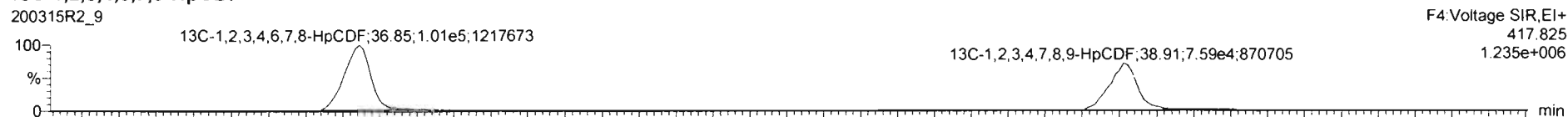
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Printed: Monday, March 16, 2020 08:51:00 Pacific Daylight Time

Name: 200315R2_9, Date: 16-Mar-2020, Time: 06:20:14, ID: 2000144-14 PDI-084SC-A-02-03-191002 20.28, Description: PDI-084SC-A-02-03-191002

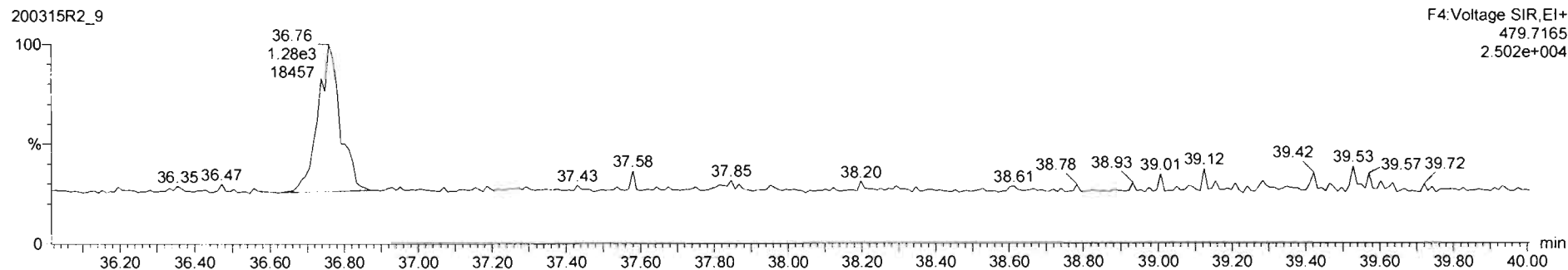
1,2,3,4,6,7,8-HpCDF

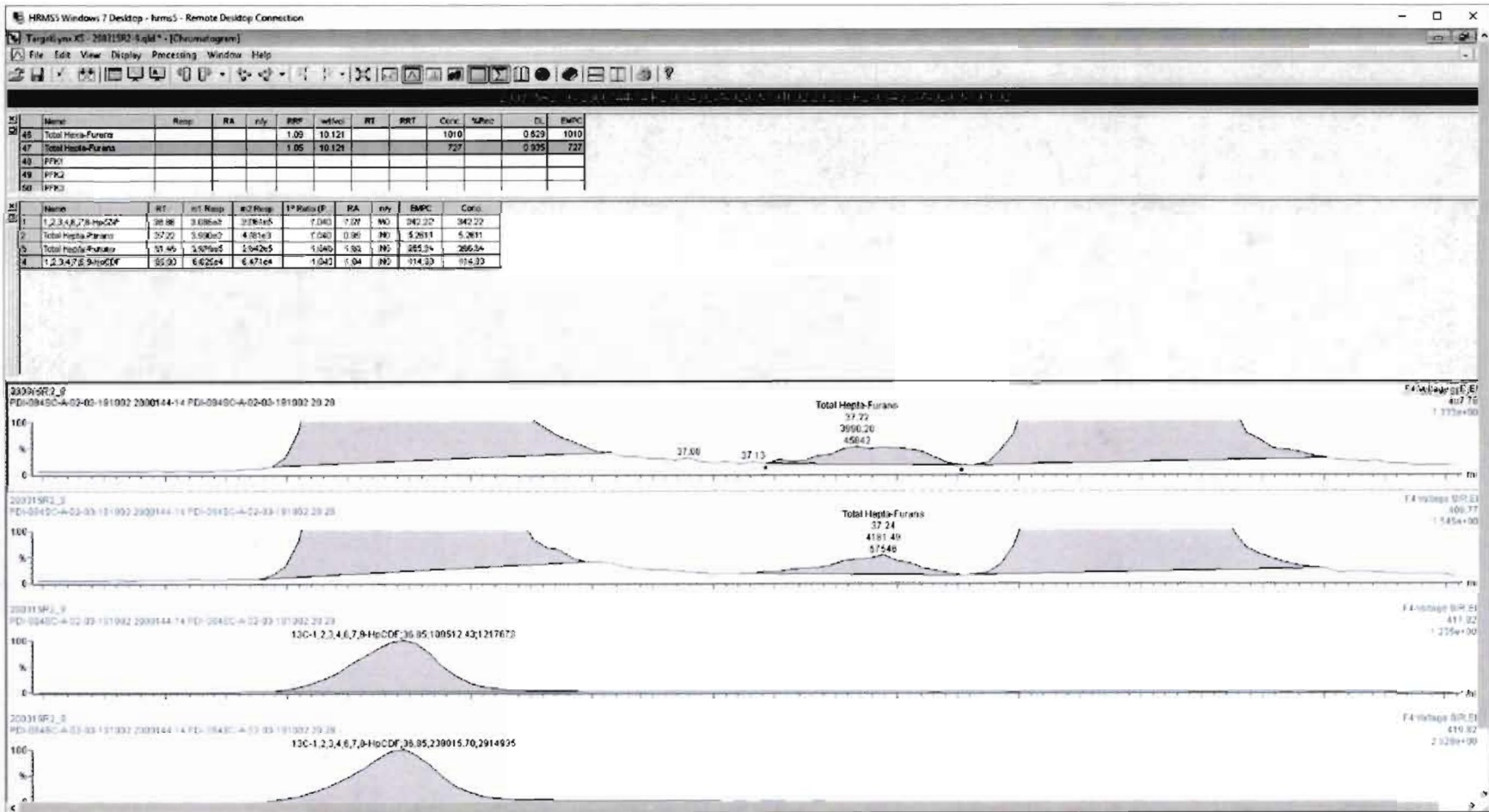


13C-1,2,3,4,6,7,8-HpCDF



DPE4

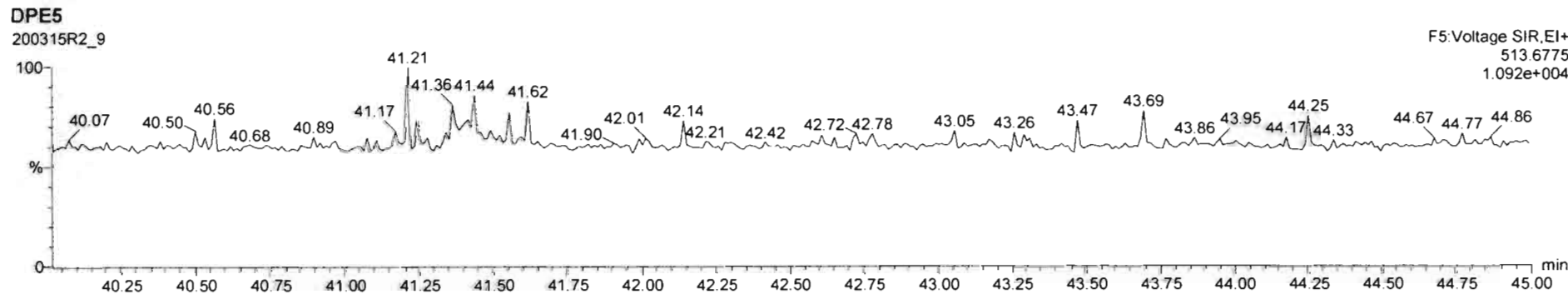
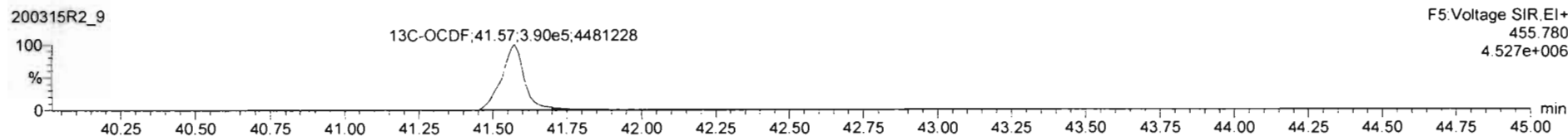
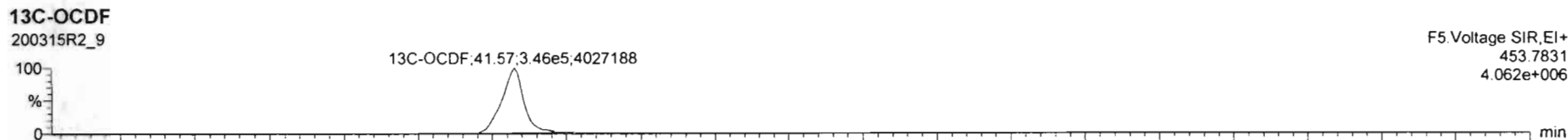
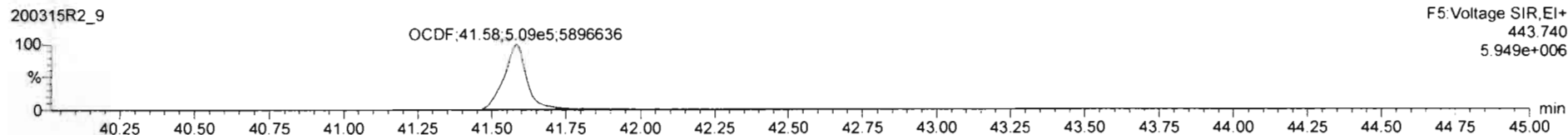
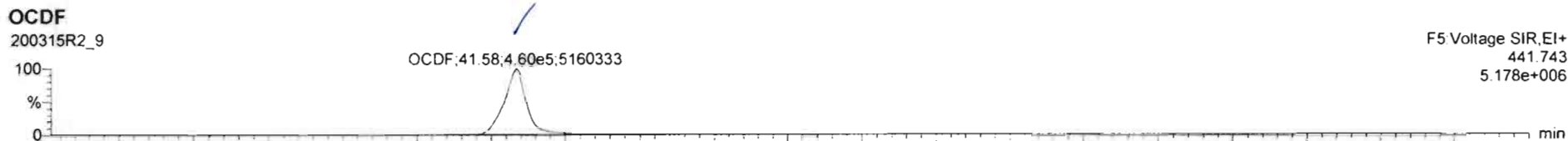




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Printed: Monday, March 16, 2020 08:51:00 Pacific Daylight Time

Name: 200315R2_9, Date: 16-Mar-2020, Time: 06:20:14, ID: 2000144-14 PDI-084SC-A-02-03-191002 20.28, Description: PDI-084SC-A-02-03-191002

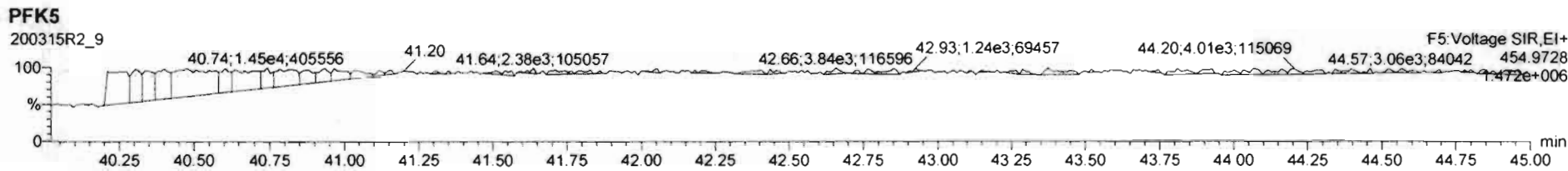
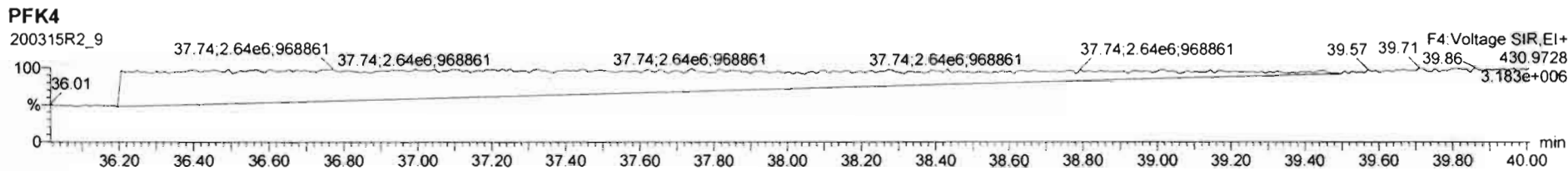
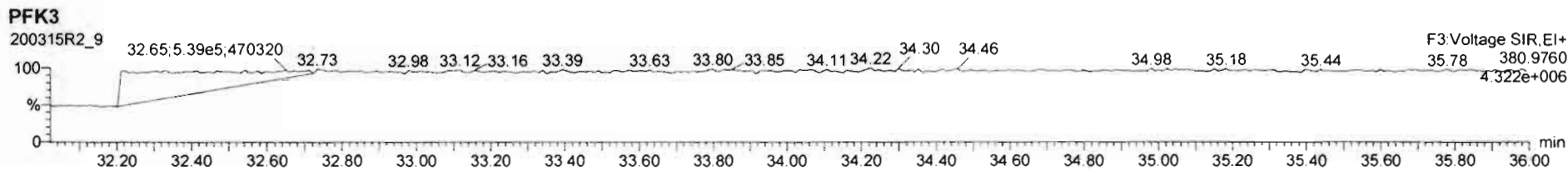
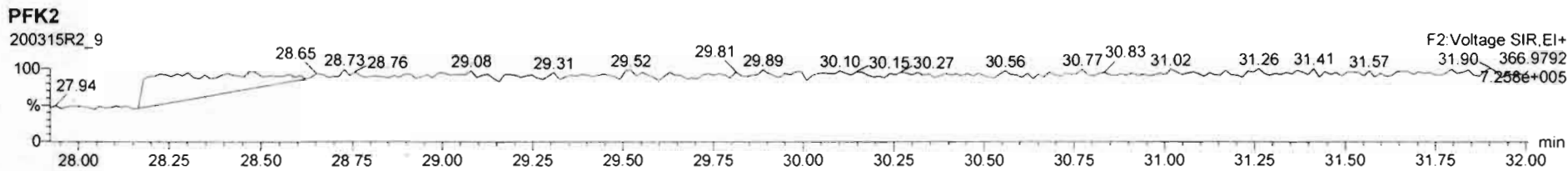
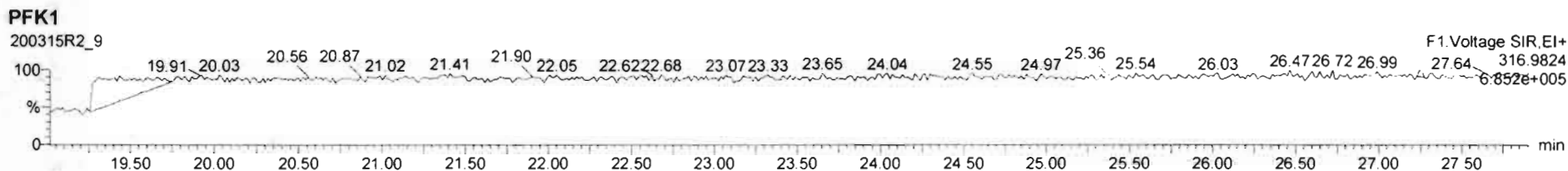


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Printed: Monday, March 16, 2020 08:51:00 Pacific Daylight Time

Name: 200315R2_9, Date: 16-Mar-2020, Time: 06:20:14, ID: 2000144-14 PDI-084SC-A-02-03-191002 20.28, Description: PDI-084SC-A-02-03-191002



CONFIRMATION

Dataset: U:\VG7.PRO\Results\200320D1\200320D1_7.qld

Last Altered: Friday, March 20, 2020 14:27:49 Pacific Daylight Time
Printed: Friday, March 20, 2020 14:29:00 Pacific Daylight Time

DB 3/20/20 0703/26/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 20 Mar 2020 11:48:01
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200320D1_7, Date: 20-Mar-2020, Time: 14:00:33, ID: 2000144-01RE1 PDI-052SC-A-06-07-191015 14.52, Description: PDI-052SC-A-06-07-191015

	# 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	4.23e3	0.82	NO	0.982	10.037	17.154	17.17	1.000	1.002	10.677		0.655	10.7
2	2 13C-2,3,7,8-TCDF	8.04e4	0.74	NO	1.08	10.037	17.130	17.13	1.133	1.134	173.41	87.0	1.09	
3	3 13C-1,2,3,4-TCDF	8.53e4	0.78	NO	1.00	10.037	15.080	15.11	1.000	1.000	199.26	100	1.18	

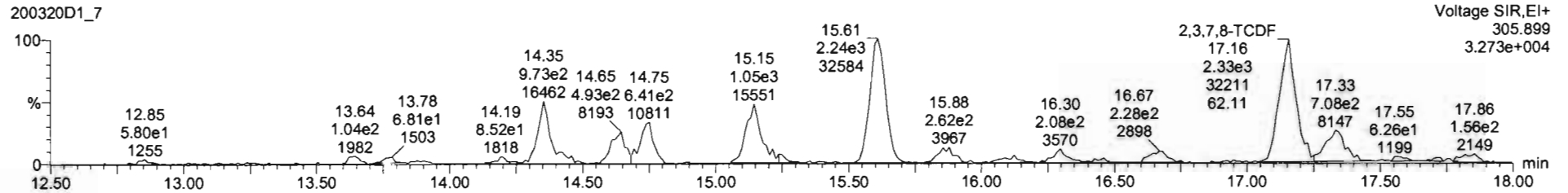
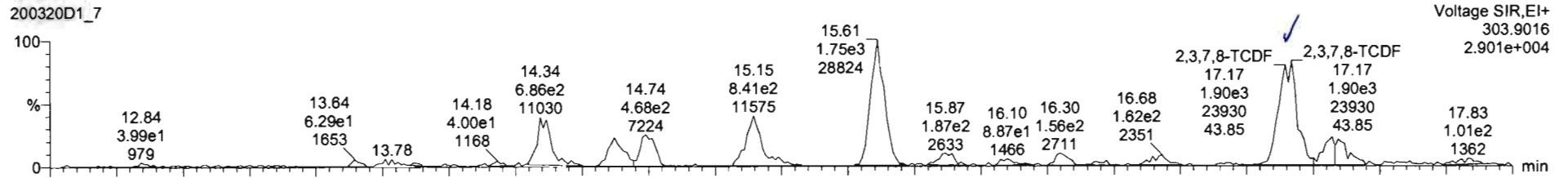
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Printed: Friday, March 20, 2020 14:29:21 Pacific Daylight Time

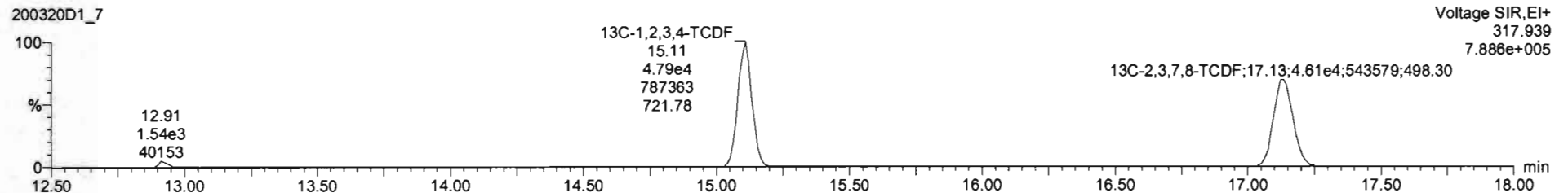
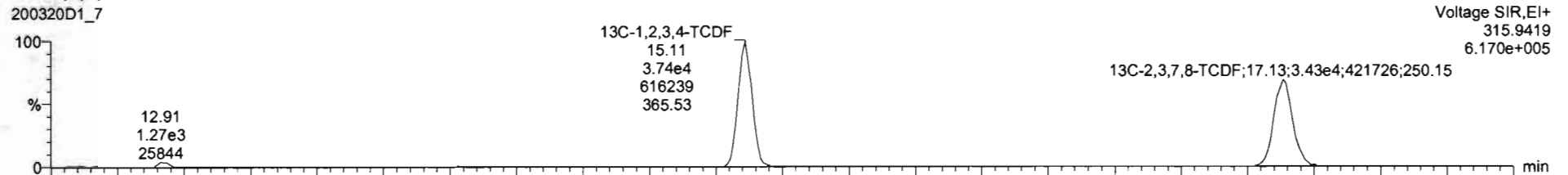
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 20 Mar 2020 11:48:01
Calibration: U:\VG7.PRO\CurveDB\ldb-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200320D1_7, Date: 20-Mar-2020, Time: 14:00:33, ID: 2000144-01RE1 PDI-052SC-A-06-07-191015 14.52, Description: PDI-052SC-A-06-07-191015

2,3,7,8-TCDF



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



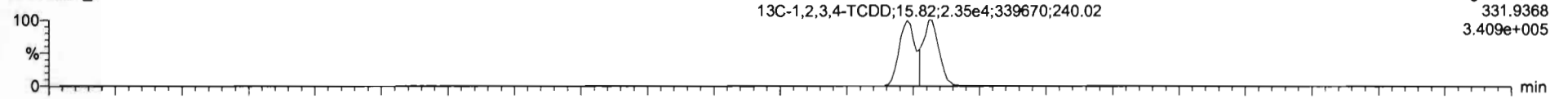
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Printed: Friday, March 20, 2020 14:29:21 Pacific Daylight Time

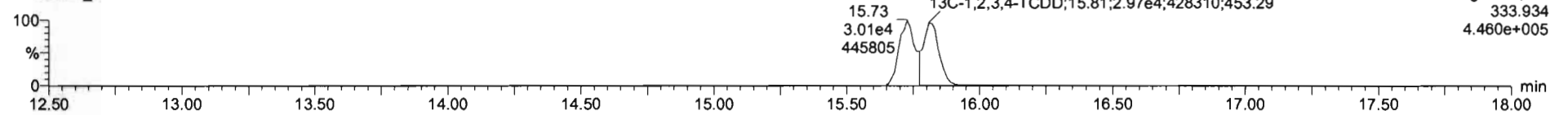
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13C-1,2,3,4-TCDD

200320D1_7

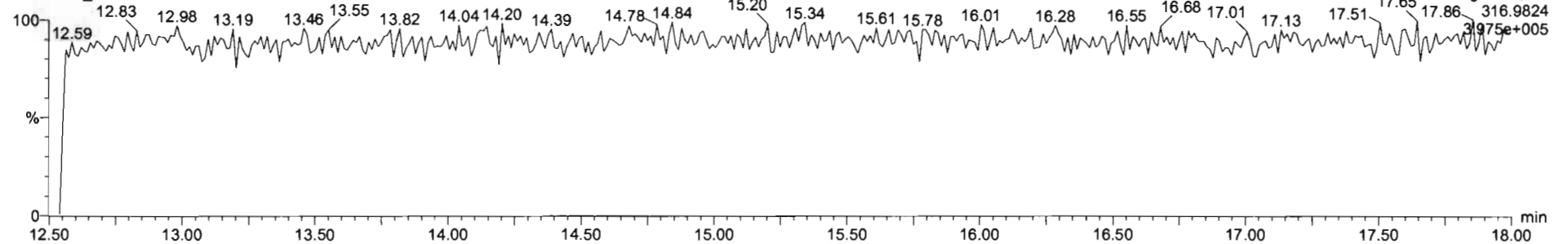


200320D1_7



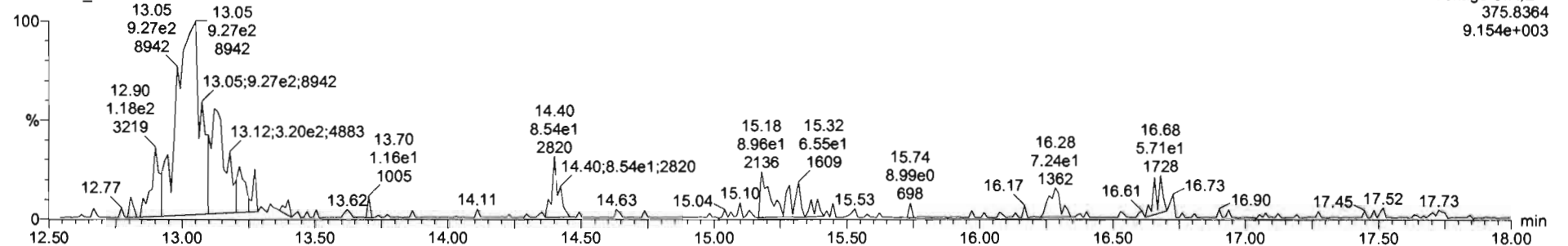
PFK1

200320D1_7



DPE1

200320D1_7



Dataset: U:\VG7.PRO\Results\200320D1\200320D1_5.qld

Last Altered: Friday, March 20, 2020 14:24:52 Pacific Daylight Time
Printed: Friday, March 20, 2020 14:25:58 Pacific Daylight Time

DB 3/20/20 C7 03/20/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 20 Mar 2020 11:48:01
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200320D1_5, Date: 20-Mar-2020, Time: 12:57:07, ID: B0B0031-DUP1RE1, Description: Duplicate

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	4.89e3	0.75	NO	0.982	10.010	17.142	17.12	1.000	1.000	9.4931		0.362	9.49
2	2 13C-2,3,7,8-TCDF	1.05e5	0.79	NO	1.08	10.010	17.119	17.12	1.133	1.134	217.01	109	1.35	
3	3 13C-1,2,3,4-TCDF	8.91e4	0.78	NO	1.00	10.010	15.080	15.10	1.000	1.000	199.81	100	1.47	

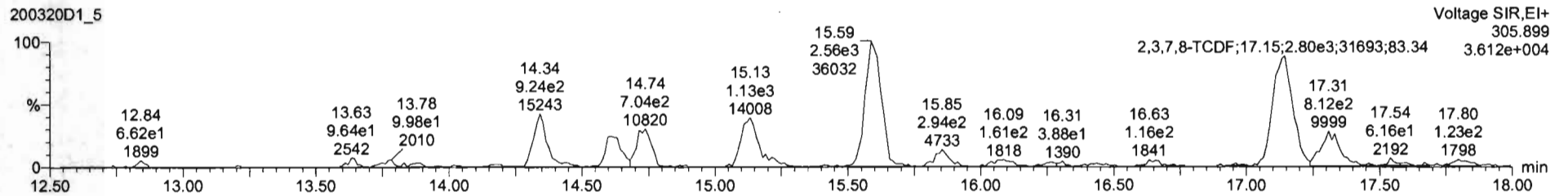
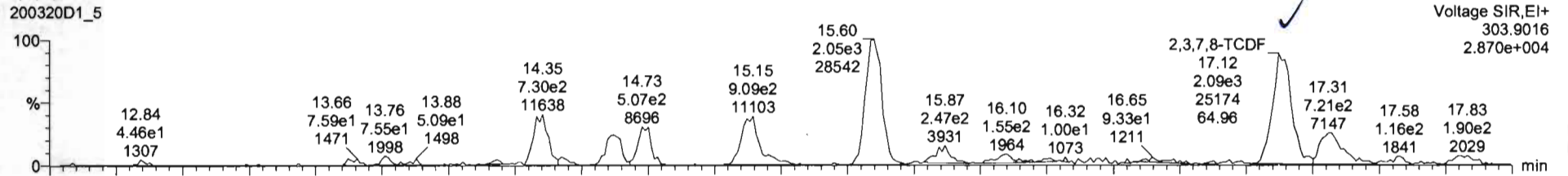
Dataset: U:\VG7.PRO\Results\200320D1\200320D1_5.qld

Last Altered: Friday, March 20, 2020 14:24:52 Pacific Daylight Time
Printed: Friday, March 20, 2020 14:26:23 Pacific Daylight Time

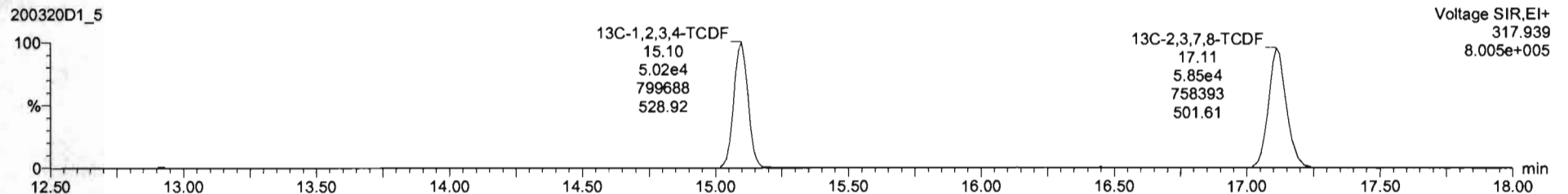
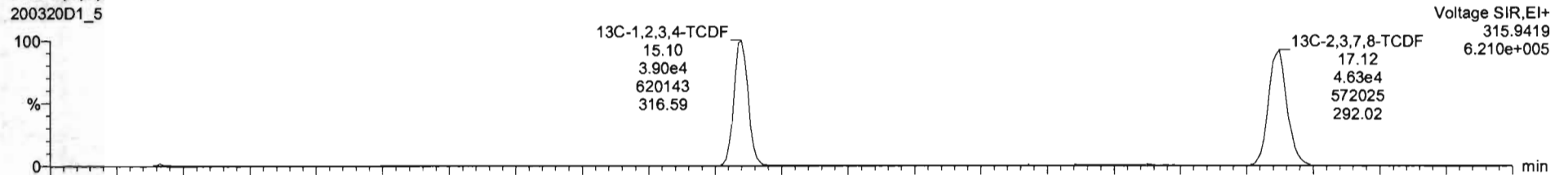
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 20 Mar 2020 11:48:01
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200320D1_5, Date: 20-Mar-2020, Time: 12:57:07, ID: B0B0031-DUP1RE1, Description: Duplicate

2,3,7,8-TCDF



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



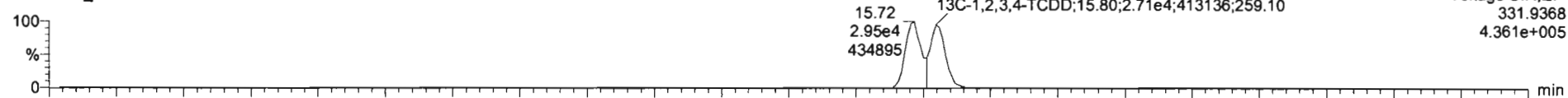
Dataset: U:\VG7.PRO\Results\200320D1\200320D1_5.qld

Last Altered: Friday, March 20, 2020 14:24:52 Pacific Daylight Time
Printed: Friday, March 20, 2020 14:26:23 Pacific Daylight Time

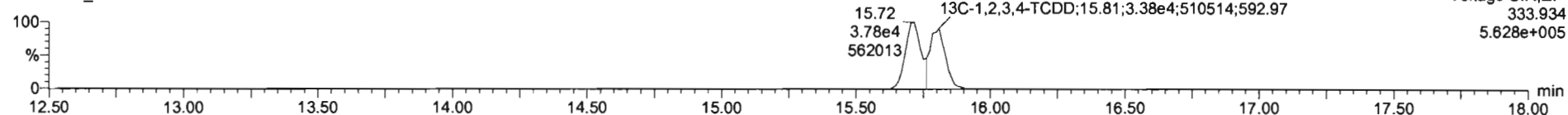
Name: 200320D1_5, Date: 20-Mar-2020, Time: 12:57:07, ID: B0B0031-DUP1RE1, Description: Duplicate

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

200320D1_5

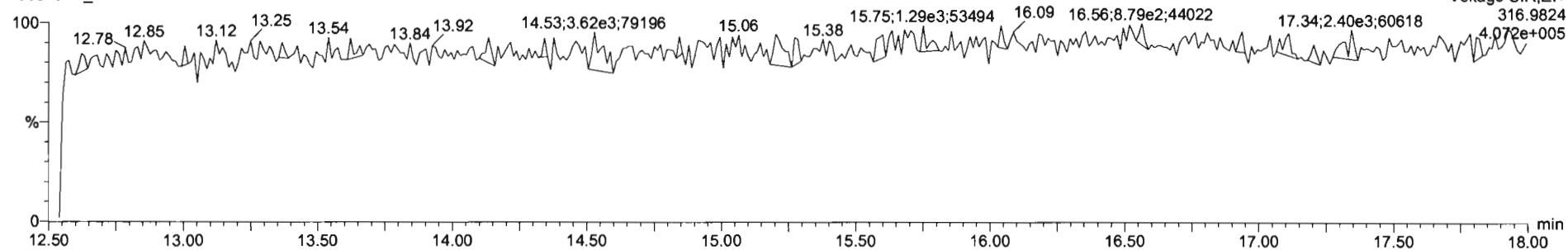


200320D1_5



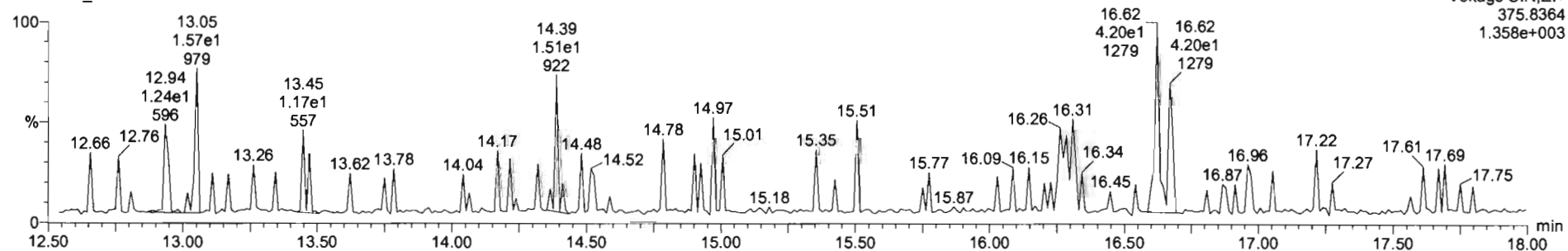
PFK1

200320D1_5



DPE1

200320D1_5



Dataset: U:\VG7.PRO\Results\200320D1\200320D1_8.qld

Last Altered: Friday, March 20, 2020 14:57:00 Pacific Daylight Time
Printed: Friday, March 20, 2020 14:58:18 Pacific Daylight Time

DB 3/20/20 C123/20/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 20 Mar 2020 11:48:01
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200320D1_8, Date: 20-Mar-2020, Time: 14:32:15, ID: 2000144-02RE1 PDI-055SC-A-02-03-191015 17.22, Description: PDI-055SC-A-02-03-191015

#	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	9.81e4	0.74	NO	0.982	10.025	17.142	17.16	1.000	1.002	204.62		0.949	205
2	2 13C-2,3,7,8-TCDF	9.75e4	0.76	NO	1.08	10.025	17.130	17.12	1.133	1.133	179.35	89.9	1.52	
3	3 13C-1,2,3,4-TCDF	1.00e5	0.77	NO	1.00	10.025	15.080	15.11	1.000	1.000	199.51	100	1.65	

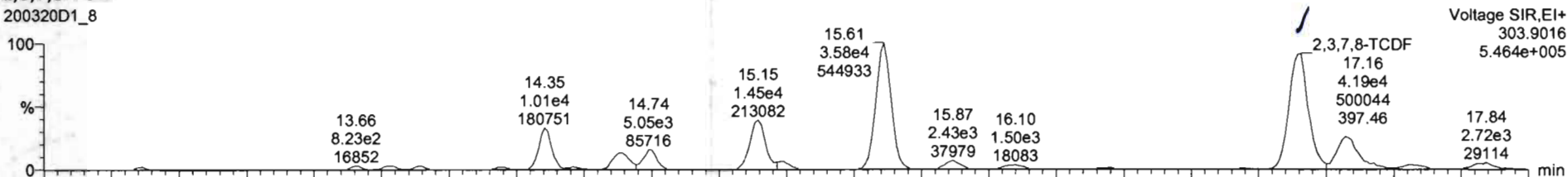
Dataset: U:\VG7.PRO\Results\200320D1\200320D1_8.qld

Last Altered: Friday, March 20, 2020 14:57:00 Pacific Daylight Time
Printed: Friday, March 20, 2020 14:58:37 Pacific Daylight Time

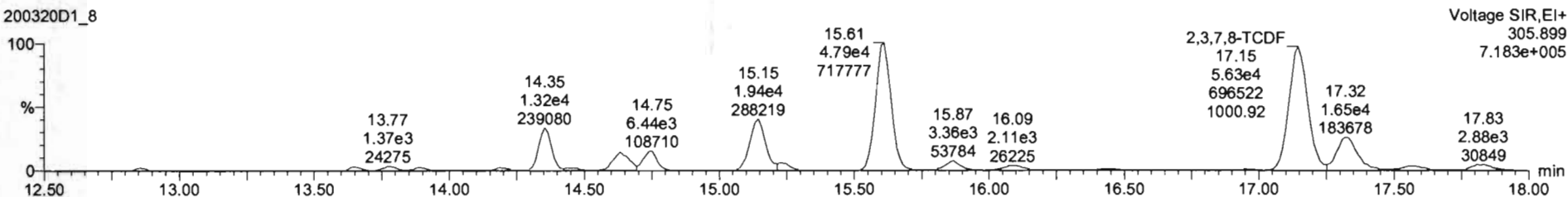
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 20 Mar 2020 11:48:01
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200320D1_8, Date: 20-Mar-2020, Time: 14:32:15, ID: 2000144-02RE1 PDI-055SC-A-02-03-191015 17.22, Description: PDI-055SC-A-02-03-191015

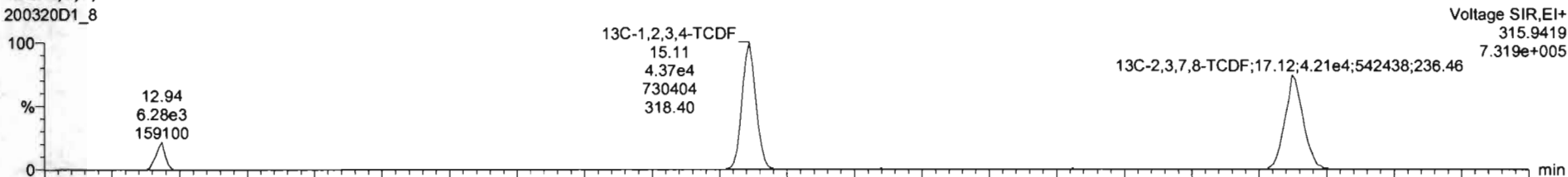
2,3,7,8-TCDF
200320D1_8



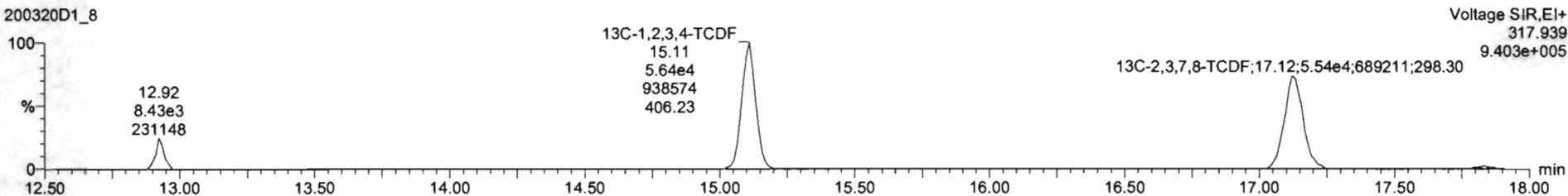
200320D1_8



13C-2,3,7,8-TCDF
200320D1_8



200320D1_8



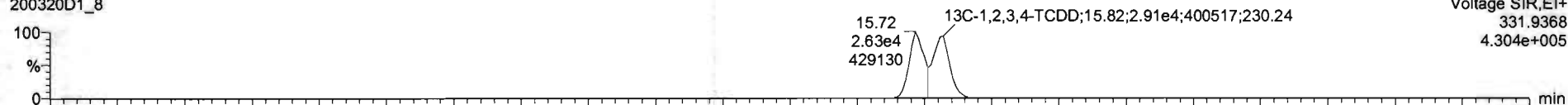
Dataset: U:\VG7.PRO\Results\200320D1\200320D1_8.qld

Last Altered: Friday, March 20, 2020 14:57:00 Pacific Daylight Time
Printed: Friday, March 20, 2020 14:58:37 Pacific Daylight Time

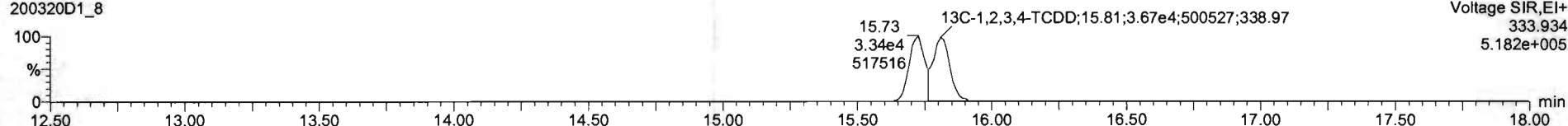
Name: 200320D1_8, Date: 20-Mar-2020, Time: 14:32:15, ID: 2000144-02RE1 PDI-055SC-A-02-03-191015 17.22, Description: PDI-055SC-A-02-03-191015

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

200320D1_8

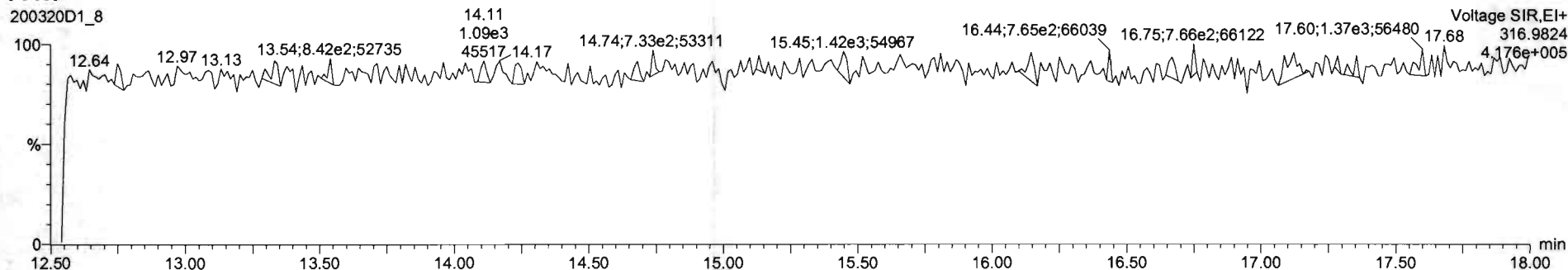


200320D1_8



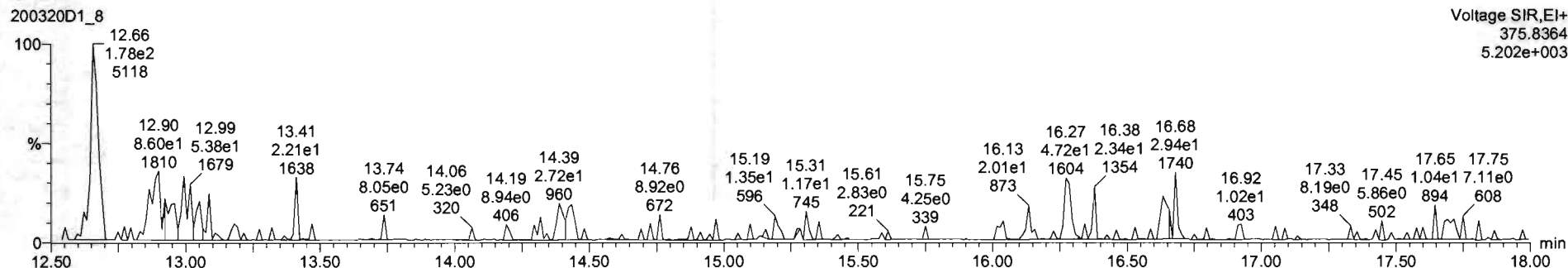
PFK1

200320D1_8



DPE1

200320D1_8



Dataset: U:\VG7.PRO\Results\200320D1\200320D1_9.qld

Last Altered: Friday, March 20, 2020 15:27:15 Pacific Daylight Time

Printed: Friday, March 20, 2020 15:29:04 Pacific Daylight Time

DB 3/20/20 C 7 03/20/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 20 Mar 2020 11:48:01

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200320D1_9, Date: 20-Mar-2020, Time: 15:03:58, ID: 2000144-03RE1 PDI-055SC-A-03-04-191015 16.3, Description: PDI-055SC-A-03-04-191015

	# 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	6.27e4	0.74	NO	0.982	10.026	17.189	17.18	1.000	1.001	203.15		1.59	203
2	2 13C-2,3,7,8-TCDF	6.27e4	0.76	NO	1.08	10.026	17.154	17.17	1.133	1.134	159.73	80.1	3.46	
3	3 13C-1,2,3,4-TCDF	7.24e4	0.71	NO	1.00	10.026	15.080	15.13	1.000	1.000	199.48	100	3.75	

Vista Analytical Laboratory VG-10

Dataset: U:\VG7.PRO\Results\200320D1\200320D1_9.qld

Last Altered: Friday, March 20, 2020 15:27:15 Pacific Daylight Time

Printed: Friday, March 20, 2020 15:29:26 Pacific Daylight Time

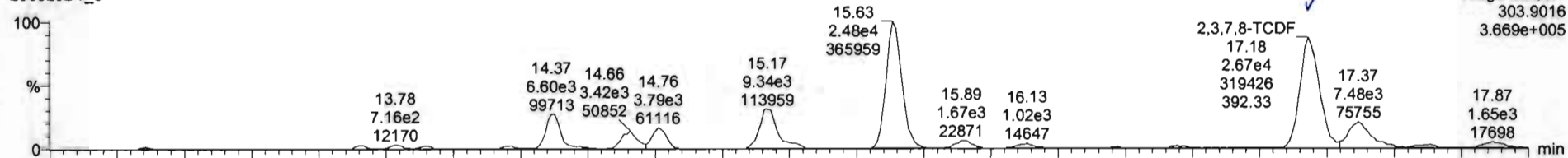
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 20 Mar 2020 11:48:01

Calibration: U:\VG7.PRO\CurveDB\ldb-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

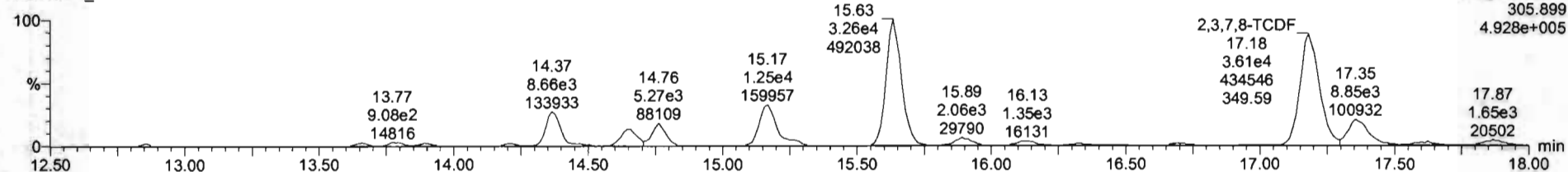
Name: 200320D1_9, Date: 20-Mar-2020, Time: 15:03:58, ID: 2000144-03RE1 PDI-055SC-A-03-04-191015 16.3, Description: PDI-055SC-A-03-04-191015

2,3,7,8-TCDF

200320D1_9

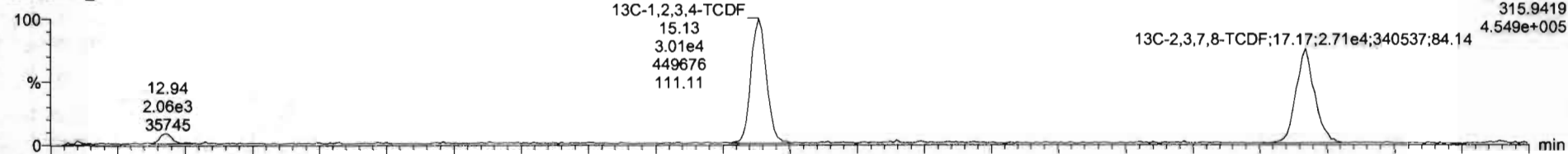


200320D1_9

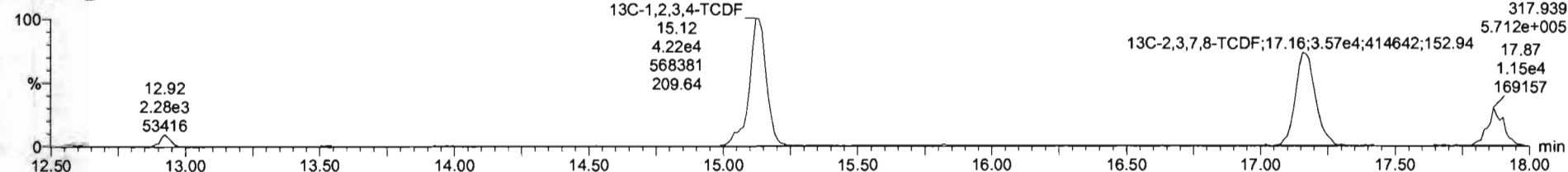


13C-2,3,7,8-TCDF

200320D1_9



200320D1_9



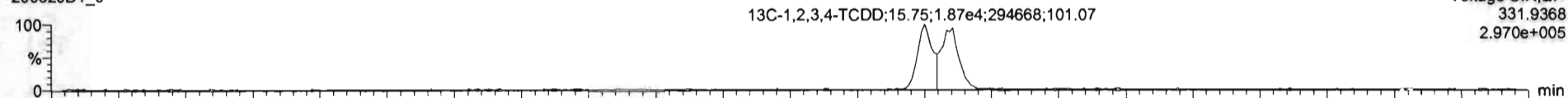
Dataset: U:\VG7.PRO\Results\200320D1\200320D1_9.qld

Last Altered: Friday, March 20, 2020 15:27:15 Pacific Daylight Time
Printed: Friday, March 20, 2020 15:29:26 Pacific Daylight Time

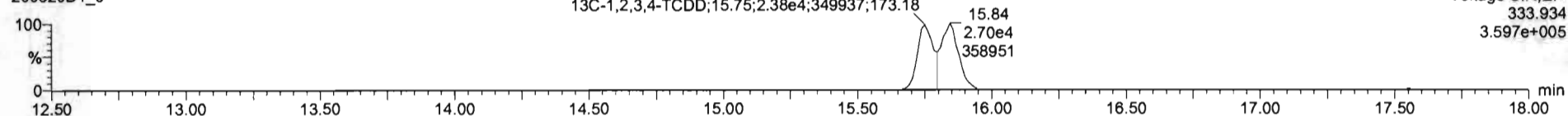
Name: 200320D1_9, Date: 20-Mar-2020, Time: 15:03:58, ID: 2000144-03RE1 PDI-055SC-A-03-04-191015 16.3, Description: PDI-055SC-A-03-04-191015

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

200320D1_9

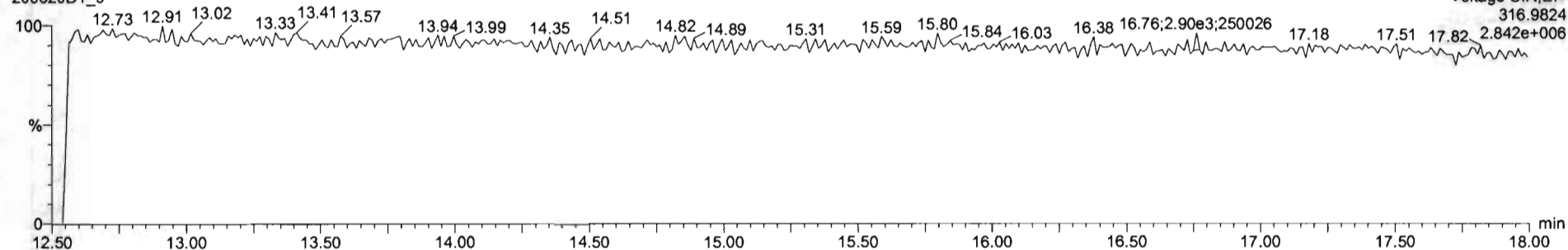


200320D1_9



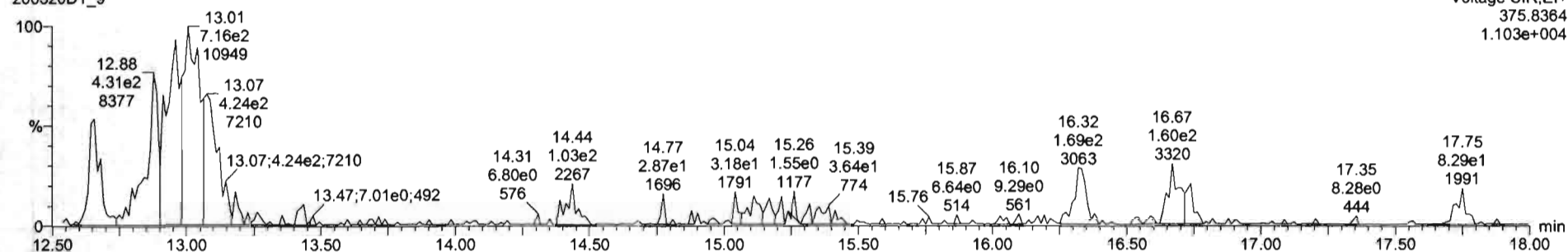
PFK1

200320D1_9



DPE1

200320D1_9



Dataset: U:\VG7.PRO\Results\200320D1\200320D1_10.qld

Last Altered: Friday, March 20, 2020 15:59:26 Pacific Daylight Time
Printed: Friday, March 20, 2020 16:00:30 Pacific Daylight Time

DB 3/20/20 C703/20/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 20 Mar 2020 11:48:01
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200320D1_10, Date: 20-Mar-2020, Time: 15:35:39, ID: 2000144-07RE1 PDI-079SC-A-08-09-191014 15.43, Description: PDI-079SC-A-08-09-191014

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	2.50e3	0.81	NO	0.982	10.036	✓ 17.189	17.18	1.000	1.001	34.673		3.12	34.7
2	2 13C-2,3,7,8-TCDF	1.46e4	0.69	NO	1.08	10.036	17.142	17.17	1.133	1.135	223.30	112	7.65	
3	3 13C-1,2,3,4-TCDF	1.21e4	0.77	NO	1.00	10.036	15.080	15.12	1.000	1.000	199.29	100	8.28	

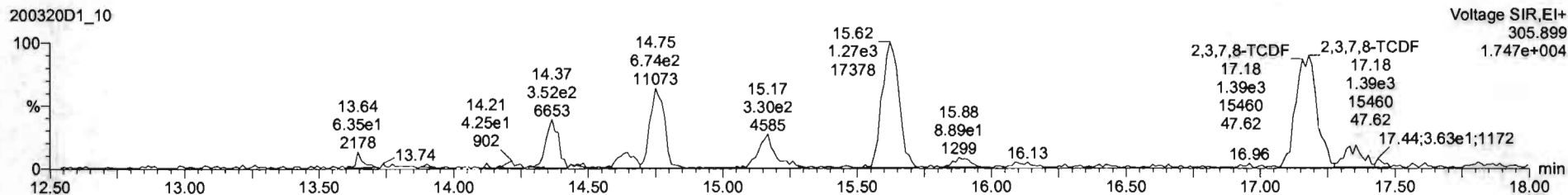
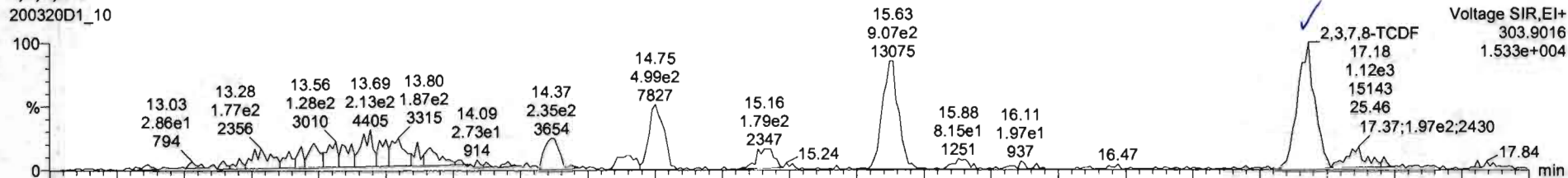
Dataset: U:\VG7.PRO\Results\200320D1\200320D1_10.qld

Last Altered: Friday, March 20, 2020 15:59:26 Pacific Daylight Time
Printed: Friday, March 20, 2020 16:00:52 Pacific Daylight Time

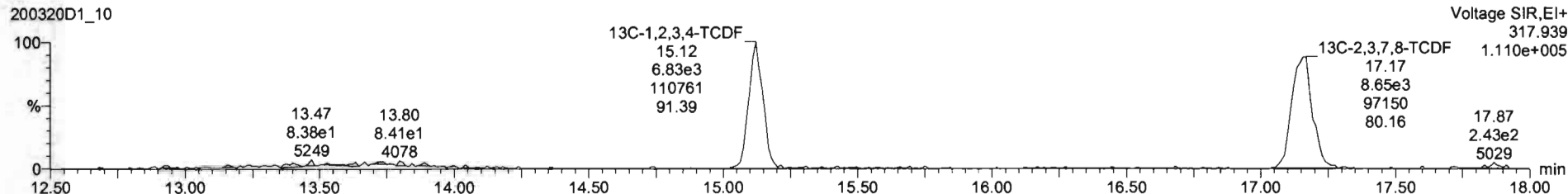
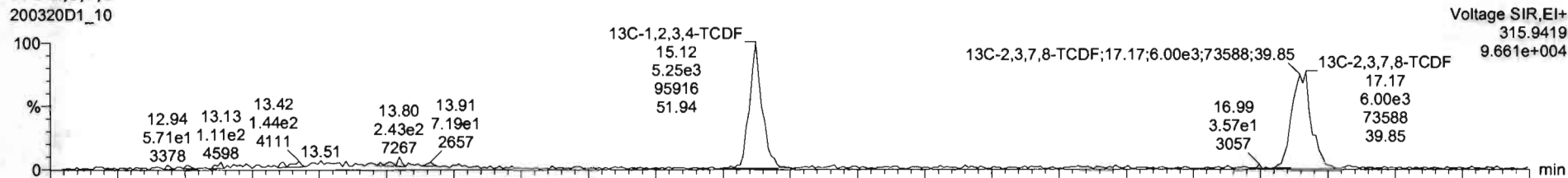
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 20 Mar 2020 11:48:01
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200320D1_10, Date: 20-Mar-2020, Time: 15:35:39, ID: 2000144-07RE1 PDI-079SC-A-08-09-191014 15.43, Description: PDI-079SC-A-08-09-191014

2,3,7,8-TCDF



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



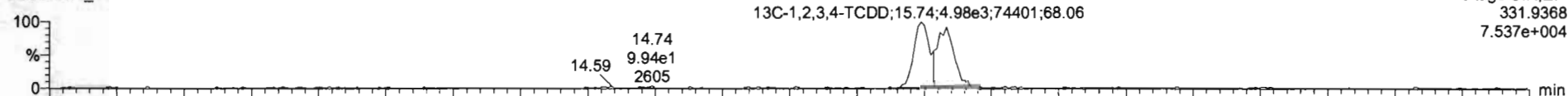
Dataset: U:\VG7.PRO\Results\200320D1\200320D1_10.qld

Last Altered: Friday, March 20, 2020 15:59:26 Pacific Daylight Time
Printed: Friday, March 20, 2020 16:00:52 Pacific Daylight Time

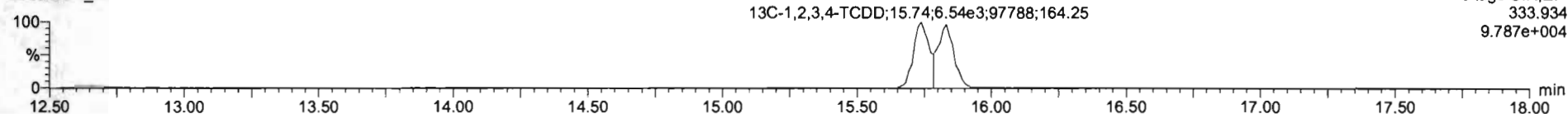
Name: 200320D1_10, Date: 20-Mar-2020, Time: 15:35:39, ID: 2000144-07RE1 PDI-079SC-A-08-09-191014 15.43, Description: PDI-079SC-A-08-09-191014

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

200320D1_10

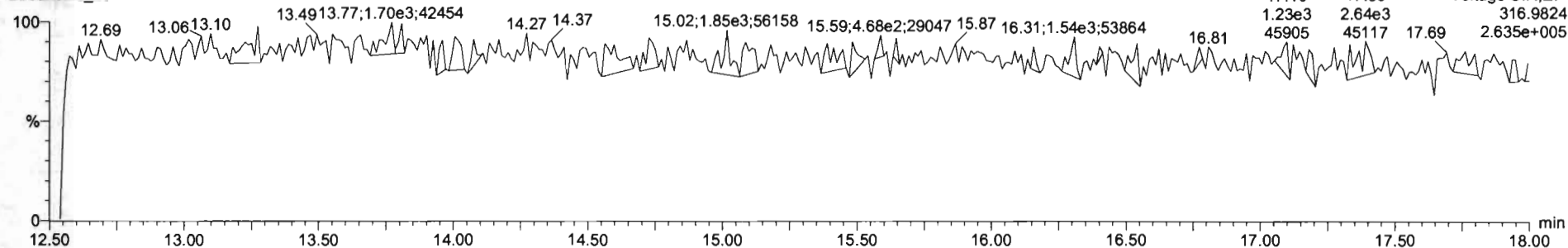


200320D1_10



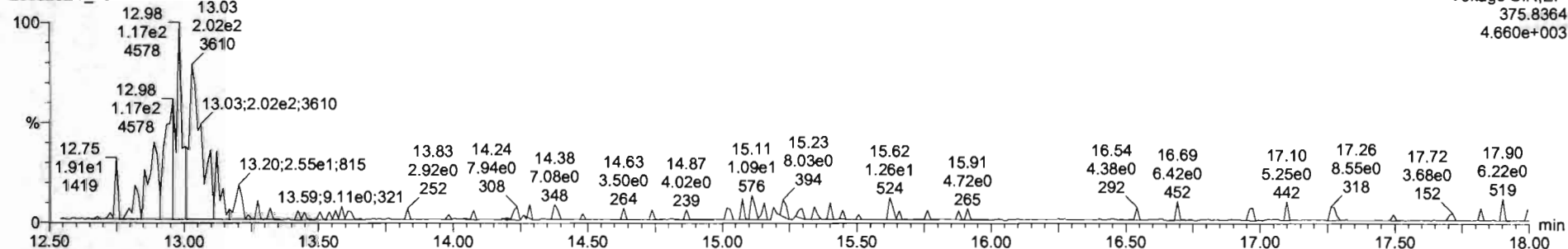
PFK1

200320D1_10



DPE1

200320D1_10



Dataset: U:\VG7.PRO\Results\200320D1\200320D1_11.qld

Last Altered: Friday, March 20, 2020 16:35:35 Pacific Daylight Time

Printed: Friday, March 20, 2020 16:36:28 Pacific Daylight Time

DB 3/20/20 C703/20/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 20 Mar 2020 11:48:01

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200320D1_11, Date: 20-Mar-2020, Time: 16:07:21, ID: 2000144-09RE1 PDI-081SC-A-08-09-191002 14.98, Description: PDI-081SC-A-08-09-191002

	# Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	3.37e3	0.78	NO	0.982	10.035	17.154	17.16	1.000	1.001	61.488		3.46	61.5
2	2 13C-2,3,7,8-TCDF	1.11e4	0.67	NO	1.08	10.035	17.142	17.13	1.133	1.133	167.28	83.9	8.88	
3	3 13C-1,2,3,4-TCDF	1.22e4	0.68	NO	1.00	10.035	15.080	15.12	1.000	1.000	199.31	100	9.62	

Dataset: U:\VG7.PRO\Results\200320D1\200320D1_11.qld

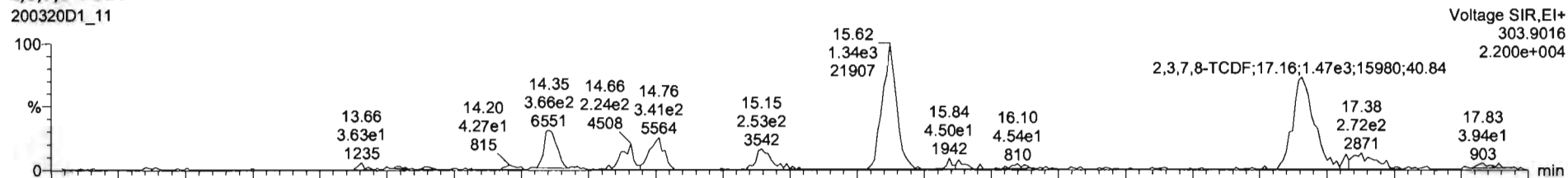
Last Altered: Friday, March 20, 2020 16:31:39 Pacific Daylight Time
Printed: Friday, March 20, 2020 16:35:21 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 20 Mar 2020 11:48:01
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

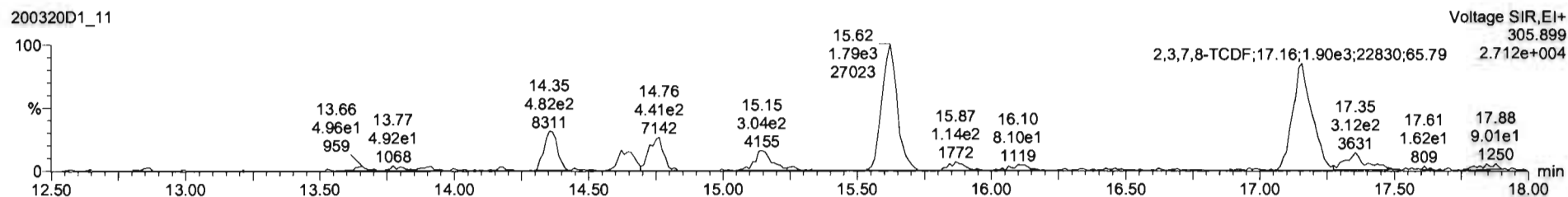
Name: 200320D1_11, Date: 20-Mar-2020, Time: 16:07:21, ID: 2000144-09RE1 PDI-081SC-A-08-09-191002 14.98, Description: PDI-081SC-A-08-09-191002

2,3,7,8-TCDF

200320D1_11

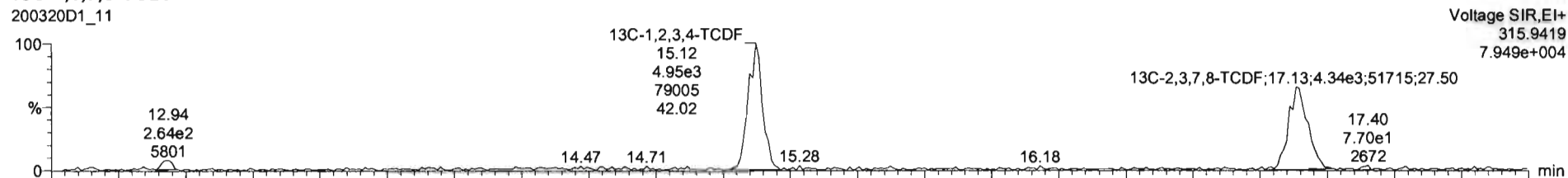


200320D1_11

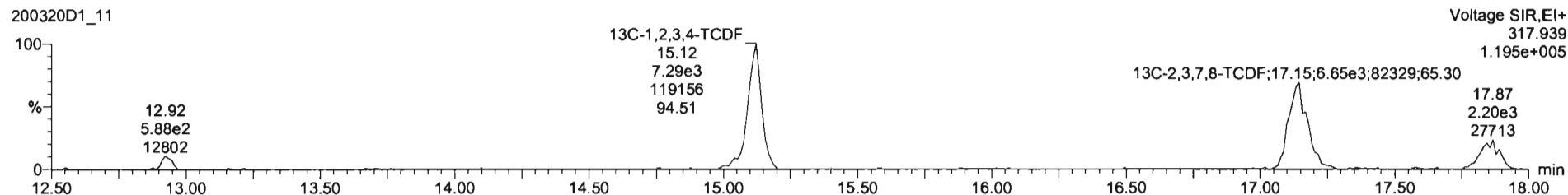


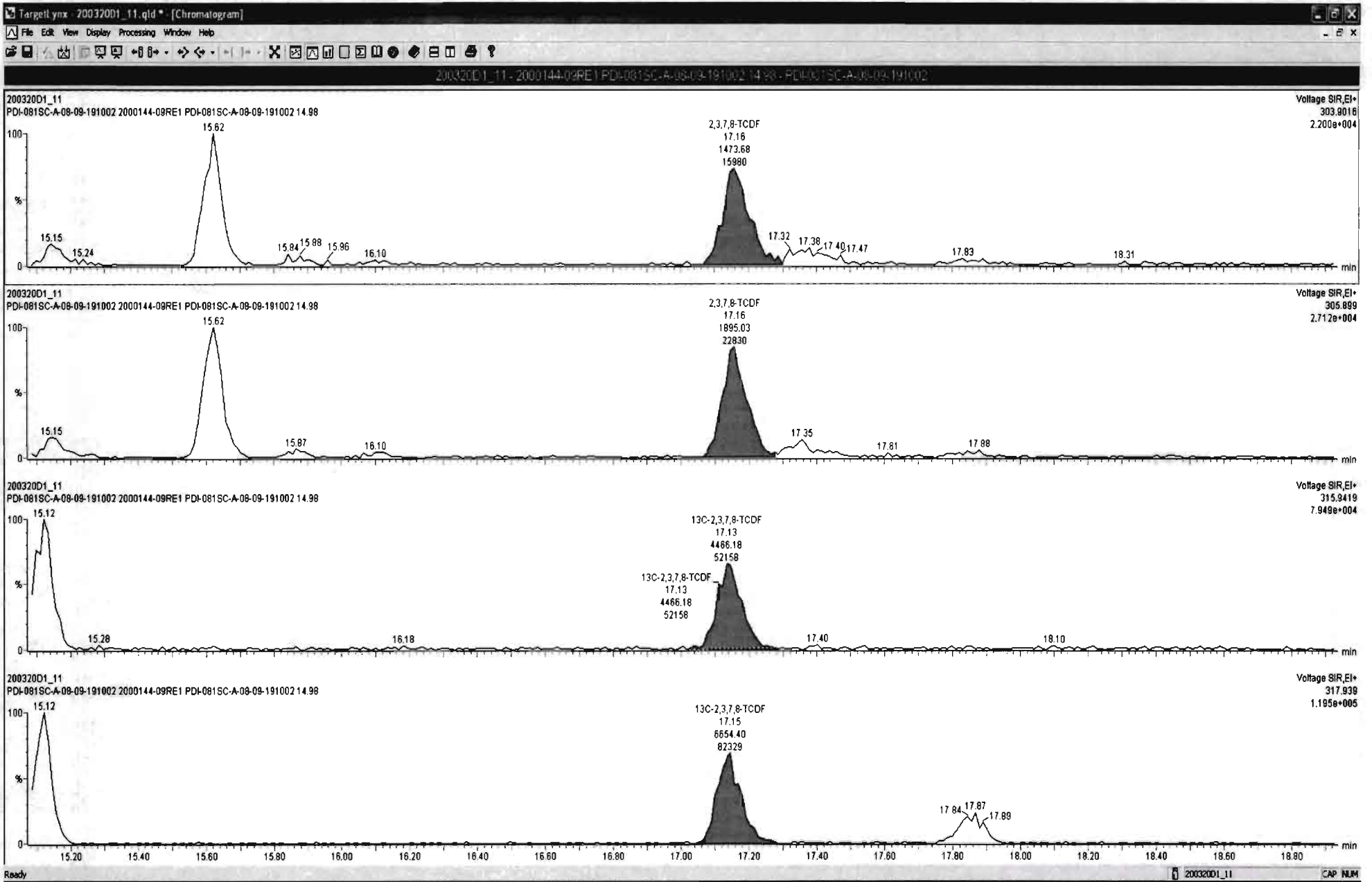
13C-2,3,7,8-TCDF

200320D1_11



200320D1_11





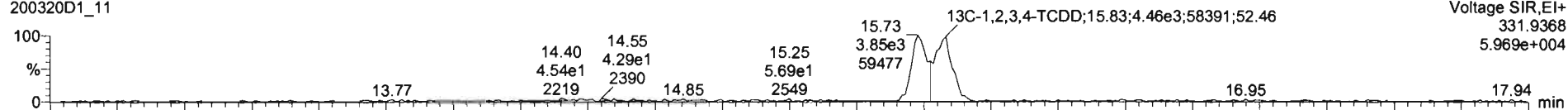
Dataset: U:\VG7.PRO\Results\200320D1\200320D1_11.qid

Last Altered: Friday, March 20, 2020 16:31:39 Pacific Daylight Time
Printed: Friday, March 20, 2020 16:35:21 Pacific Daylight Time

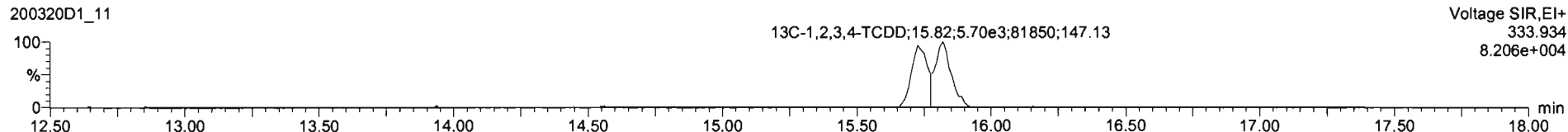
Name: 200320D1_11, Date: 20-Mar-2020, Time: 16:07:21, ID: 2000144-09RE1 PDI-081SC-A-08-09-191002 14.98, Description: PDI-081SC-A-08-09-191002

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

200320D1_11

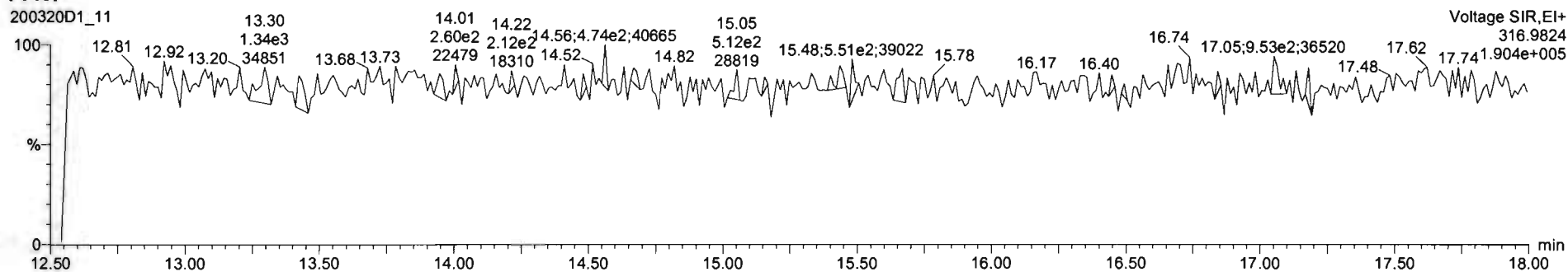


200320D1_11



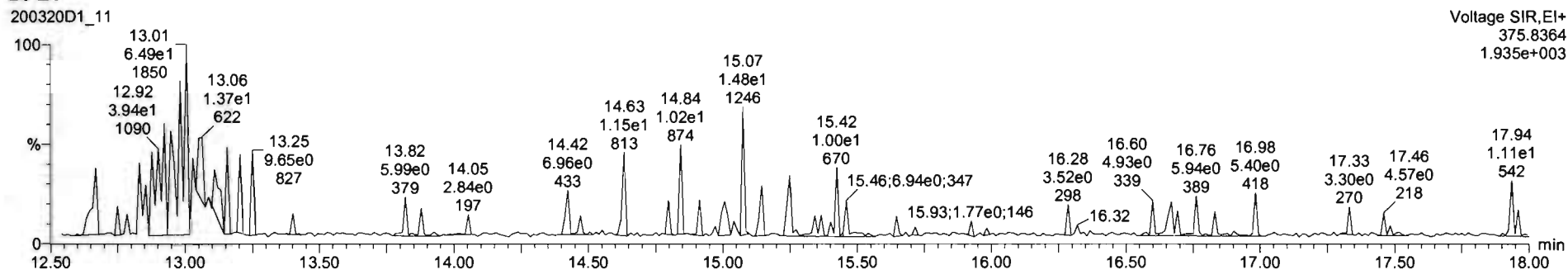
PFK1

200320D1_11



DPE1

200320D1_11



Dataset: U:\VG7.PRO\Results\200320D1\200320D1_12.qld

Last Altered: Friday, March 20, 2020 17:04:28 Pacific Daylight Time
Printed: Friday, March 20, 2020 17:05:33 Pacific Daylight Time

DB 3/20/20 C-1 03/20/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 20 Mar 2020 11:48:01
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200320D1_12, Date: 20-Mar-2020, Time: 16:39:02, ID: 2000144-10RE1 PDI-081SC-A-09-10-191002 16.34, Description: PDI-081SC-A-09-10-191002

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	8.02e3	0.73	NO	0.982	10.066	17.131	17.15	1.000	1.002	144.20		5.85	144
2	2 13C-2,3,7,8-TCDF	1.13e4	0.75	NO	1.08	10.066	17.130	17.11	1.133	1.132	172.44	86.8	12.9	
3	3 13C-1,2,3,4-TCDF	1.20e4	0.74	NO	1.00	10.066	15.080	15.11	1.000	1.000	198.69	100	13.9	

Dataset: U:\VG7.PRO\Results\200320D1\200320D1_12.qld

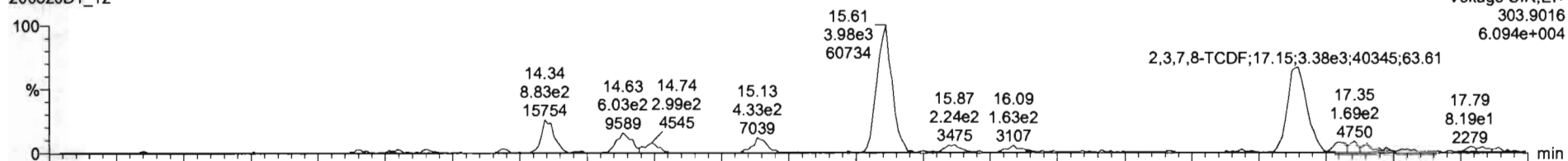
Last Altered: Friday, March 20, 2020 17:04:28 Pacific Daylight Time
Printed: Friday, March 20, 2020 17:05:53 Pacific Daylight Time

Method: C:\MassLynx\Default.PROMethDB\tcdf.mdb 20 Mar 2020 11:48:01
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

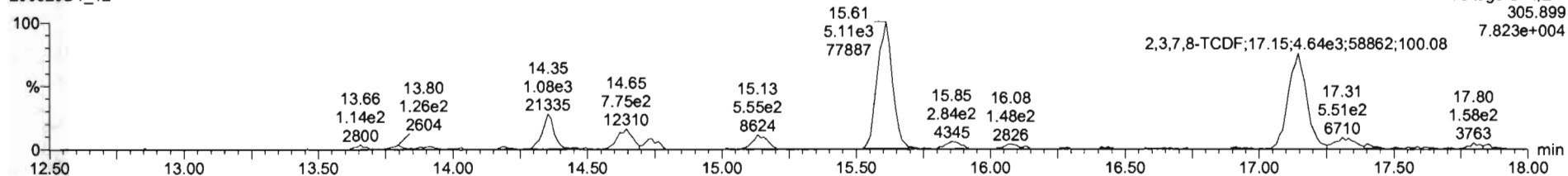
Name: 200320D1_12, Date: 20-Mar-2020, Time: 16:39:02, ID: 2000144-10RE1 PDI-081SC-A-09-10-191002 16.34, Description: PDI-081SC-A-09-10-191002

2,3,7,8-TCDF

200320D1_12

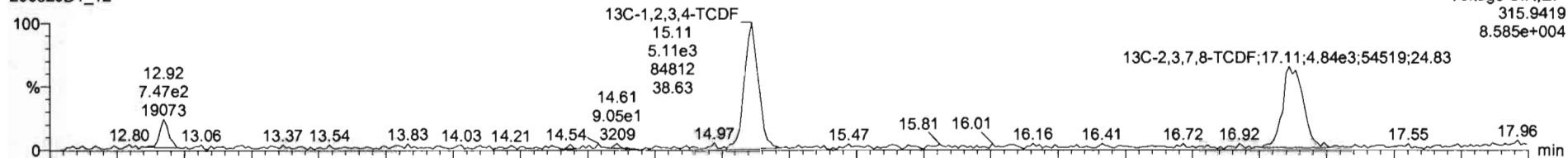


200320D1_12

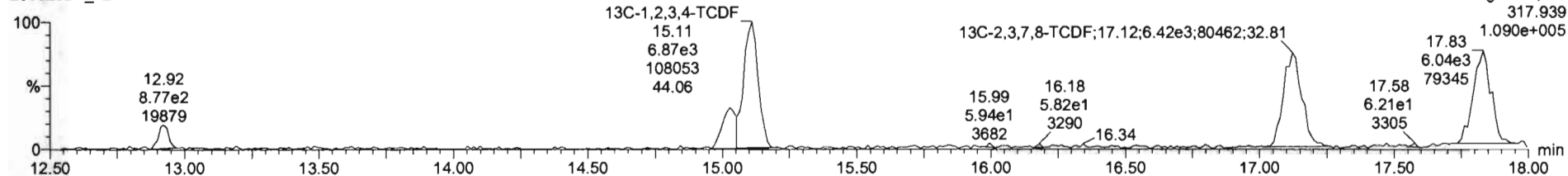


13C-2,3,7,8-TCDF

200320D1_12



200320D1_12



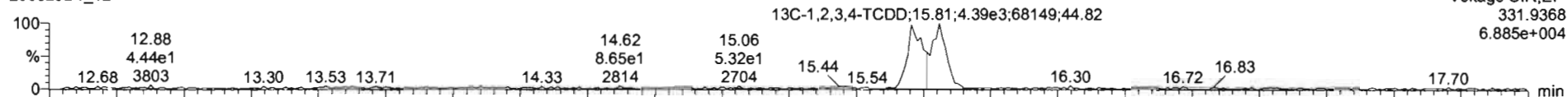
Dataset: U:\VG7.PRO\Results\200320D1\200320D1_12.qld

Last Altered: Friday, March 20, 2020 17:04:28 Pacific Daylight Time
Printed: Friday, March 20, 2020 17:05:53 Pacific Daylight Time

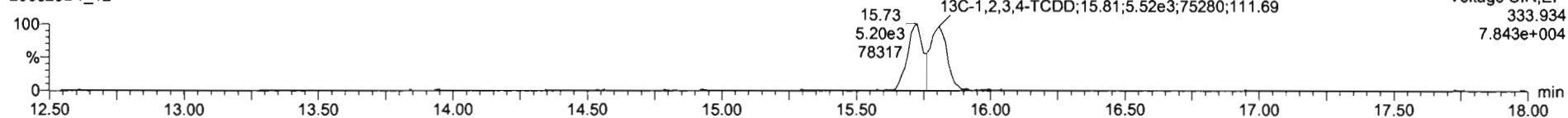
Name: 200320D1_12, Date: 20-Mar-2020, Time: 16:39:02, ID: 2000144-10RE1 PDI-081SC-A-09-10-191002 16.34, Description: PDI-081SC-A-09-10-191002

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

200320D1_12

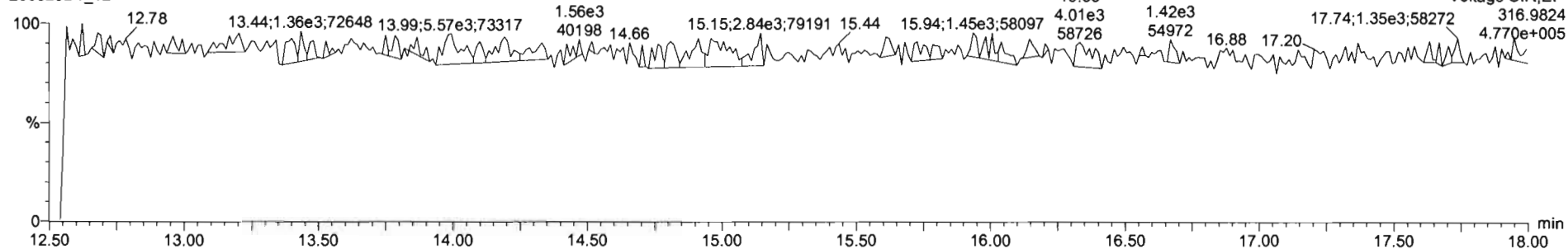


200320D1_12



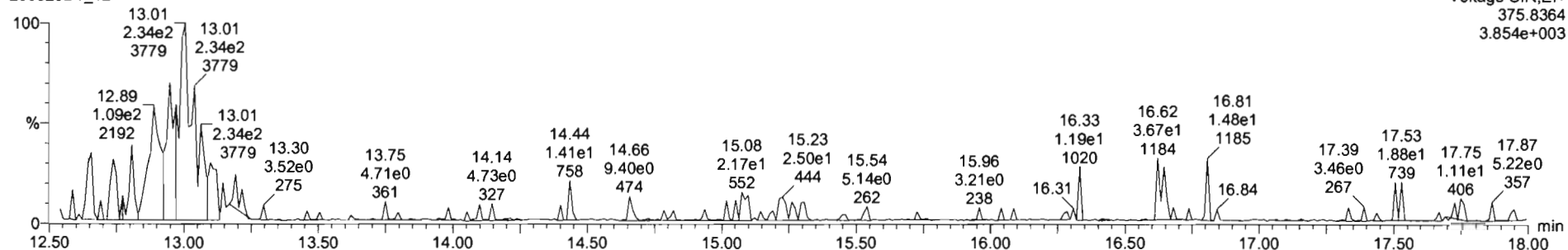
PFK1

200320D1_12



DPE1

200320D1_12



Dataset: U:\VG7.PRO\Results\200320D1\200320D1_13.qld

Last Altered: Monday, March 23, 2020 10:04:38 Pacific Daylight Time
Printed: Monday, March 23, 2020 10:05:45 Pacific Daylight Time

DA *3/23/20* *C703/24/2020*

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 20 Mar 2020 11:48:01
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200320D1_13, Date: 20-Mar-2020, Time: 17:10:45, ID: 2000144-11RE1 PDI-082SC-A-04-05-191002 17.76, Description: PDI-082SC-A-04-05-191002

#	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	1.30e4	0.75	NO	0.982	10.004	17.177	17.18	1.000	1.001	236.42		4.99	236
2	2 13C-2,3,7,8-TCDF	1.12e4	0.76	NO	1.08	10.004	17.142	17.16	1.133	1.135	180.99	90.5	11.6	
3	3 13C-1,2,3,4-TCDF	1.14e4	0.72	NO	1.00	10.004	15.080	15.12	1.000	1.000	199.92	100	12.6	

Dataset: U:\VG7.PRO\Results\200320D1\200320D1_13.qld

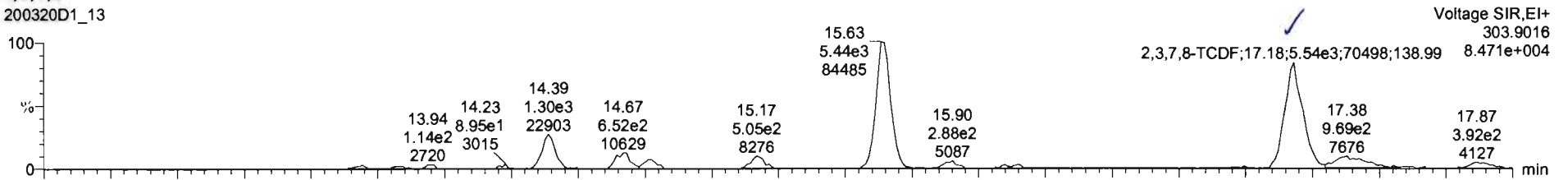
Last Altered: Monday, March 23, 2020 10:04:38 Pacific Daylight Time
Printed: Monday, March 23, 2020 10:06:07 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 20 Mar 2020 11:48:01
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

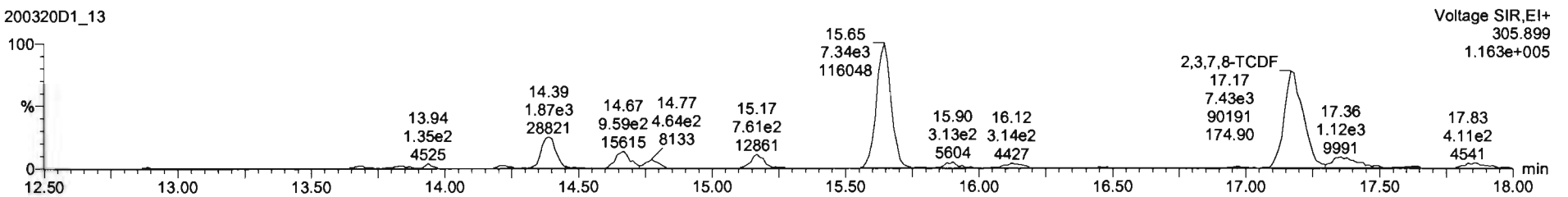
Name: 200320D1_13, Date: 20-Mar-2020, Time: 17:10:45, ID: 2000144-11RE1 PDI-082SC-A-04-05-191002 17.76, Description: PDI-082SC-A-04-05-191002

2,3,7,8-TCDF

200320D1_13

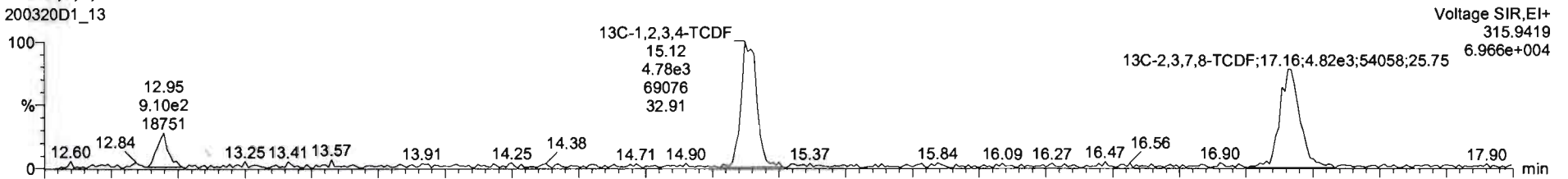


200320D1_13

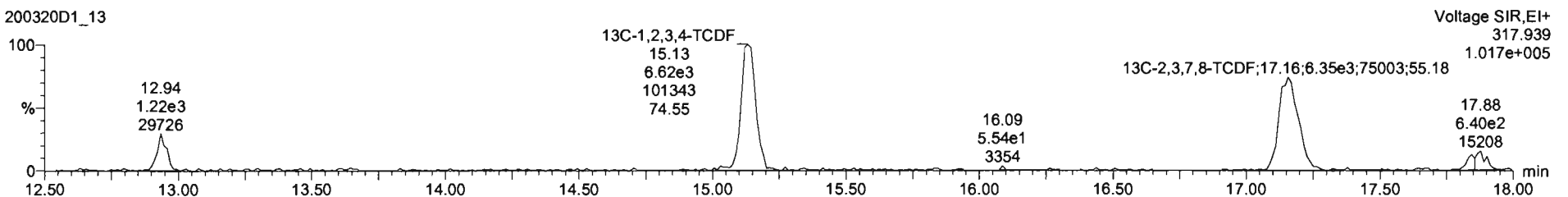


13C-2,3,7,8-TCDF

200320D1_13



200320D1_13



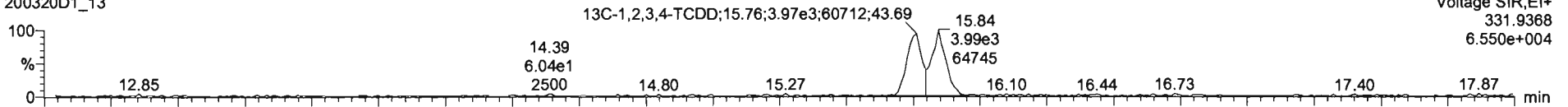
Dataset: U:\VG7.PRO\Results\200320D1\200320D1_13.qld

Last Altered: Monday, March 23, 2020 10:04:38 Pacific Daylight Time
Printed: Monday, March 23, 2020 10:06:07 Pacific Daylight Time

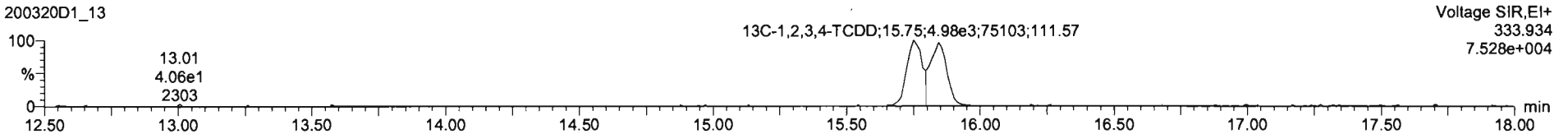
Name: 200320D1_13, Date: 20-Mar-2020, Time: 17:10:45, ID: 2000144-11RE1 PDI-082SC-A-04-05-191002 17.76, Description: PDI-082SC-A-04-05-191002

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

200320D1_13

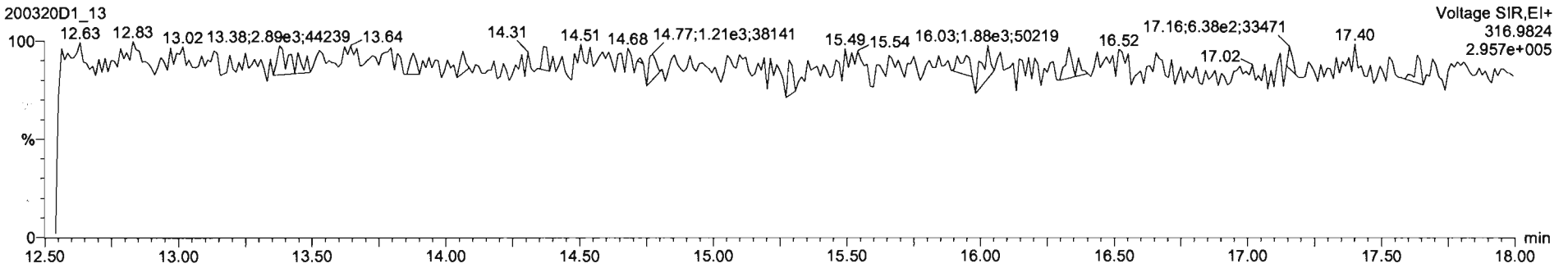


200320D1_13



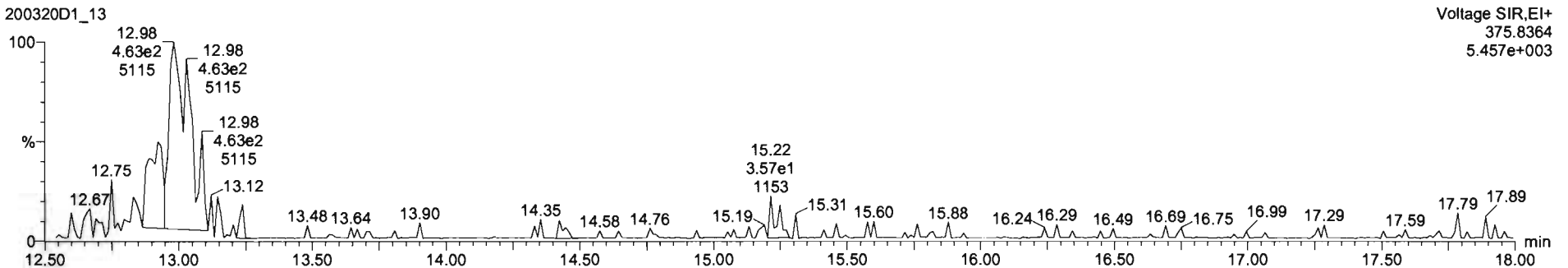
PFK1

200320D1_13



DPE1

200320D1_13



Dataset: U:\VG7.PRO\Results\200324D1\200324D1_4.qld

Last Altered: Tuesday, March 24, 2020 12:22:26 Pacific Daylight Time
Printed: Tuesday, March 24, 2020 12:23:25 Pacific Daylight Time

DB 3/24/20

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200324D1_4, Date: 24-Mar-2020, Time: 11:58:14, ID: 2000144-12RE1 PDI-082SC-A-05-06-191002 17.56, Description: PDI-082SC-A-05-06-191002

#	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	1.15e4	0.78	NO	0.982	10.050	17.840	17.83	1.000	1.001	61.677		1.22	61.7
2	2 13C-2,3,7,8-TCDF	3.77e4	0.78	NO	1.08	10.050	17.817	17.82	1.133	1.138	188.95	94.9	2.59	
3	3 13C-1,2,3,4-TCDF	3.66e4	0.77	NO	1.00	10.050	15.660	15.66	1.000	1.000	199.00	100	2.80	

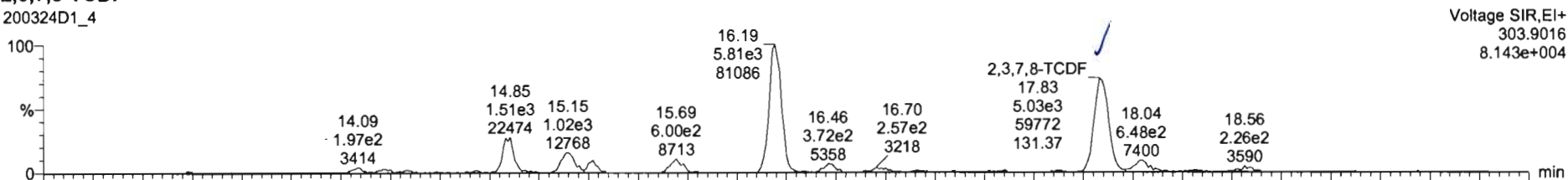
Dataset: U:\VG7.PRO\Results\200324D1\200324D1_4.qld

Last Altered: Tuesday, March 24, 2020 12:22:26 Pacific Daylight Time
Printed: Tuesday, March 24, 2020 12:23:44 Pacific Daylight Time

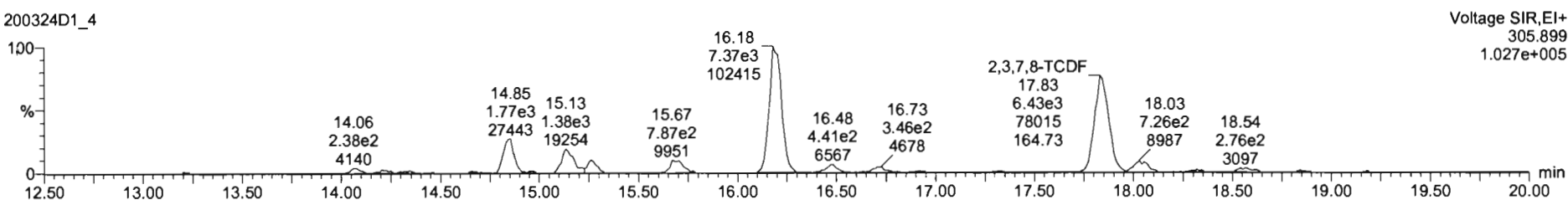
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200324D1_4, Date: 24-Mar-2020, Time: 11:58:14, ID: 2000144-12RE1 PDI-082SC-A-05-06-191002 17.56, Description: PDI-082SC-A-05-06-191002

2,3,7,8-TCDF
200324D1_4



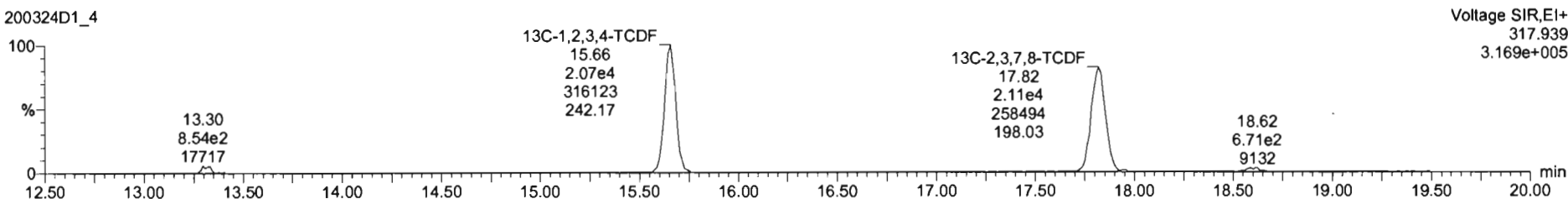
200324D1_4



13C-2,3,7,8-TCDF
200324D1_4



200324D1_4



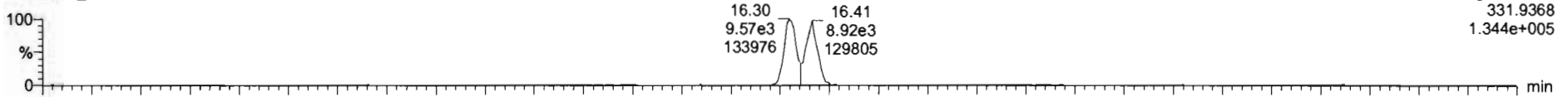
Dataset: U:\VG7.PRO\Results\200324D1\200324D1_4.qld

Last Altered: Tuesday, March 24, 2020 12:22:26 Pacific Daylight Time
Printed: Tuesday, March 24, 2020 12:23:44 Pacific Daylight Time

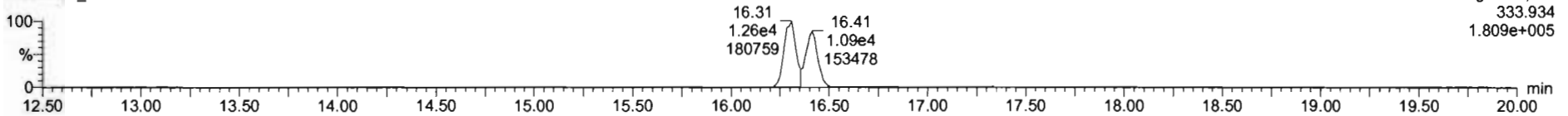
Name: 200324D1_4, Date: 24-Mar-2020, Time: 11:58:14, ID: 2000144-12RE1 PDI-082SC-A-05-06-191002 17.56, Description: PDI-082SC-A-05-06-191002

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

200324D1_4

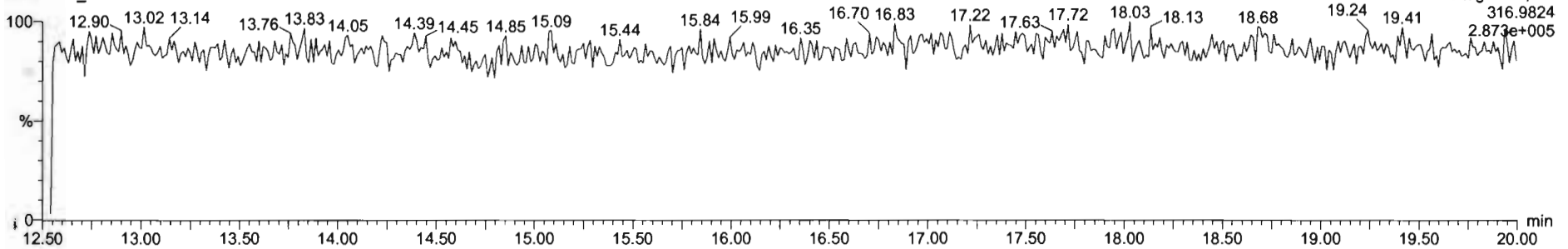


200324D1_4



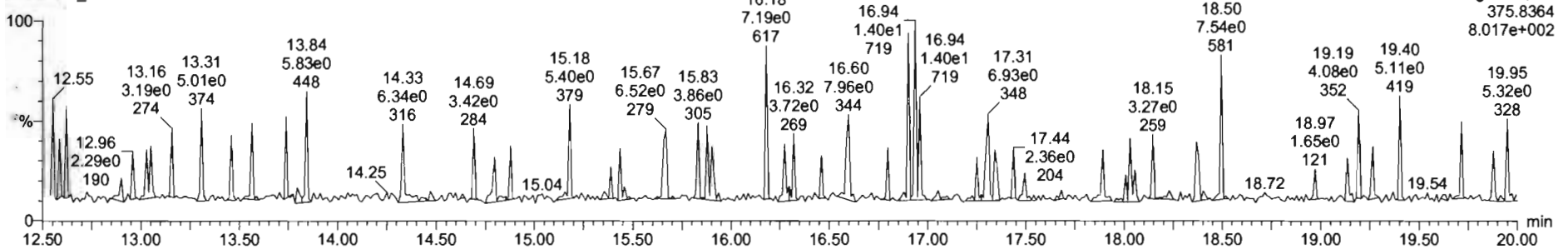
PFK1

200324D1_4



DPE1

200324D1_4



Dataset: U:\VG7.PRO\Results\200320D1\200320D1_15.qld

Last Altered: Monday, March 23, 2020 10:07:53 Pacific Daylight Time
Printed: Monday, March 23, 2020 10:09:12 Pacific Daylight Time

DB 3/23/20

CT 03/26/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 20 Mar 2020 11:48:01

Calibration: U:\VG7.PRO\CurveDB\ldb-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200320D1_15, Date: 20-Mar-2020, Time: 18:14:08, ID: 2000144-13RE1 PDI-084SC-A-01-02-191002 20.48, Description: PDI-084SC-A-01-02-191002

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDF	3.16e2	0.74	NO	0.982	10.054	17.154	17.16	1.000	1.001	5.9003		2.11	5.90
2	13C-2,3,7,8-TCDF	1.09e4	0.71	NO	1.08	10.054	17.142	17.13	1.133	1.133	201.19	101	7.69	
3	13C-1,2,3,4-TCDF	9.91e3	0.74	NO	1.00	10.054	15.080	15.12	1.000	1.000	198.93	100	8.32	

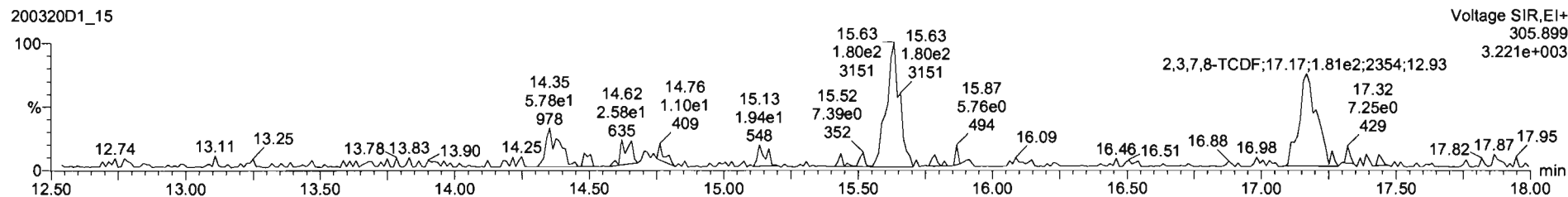
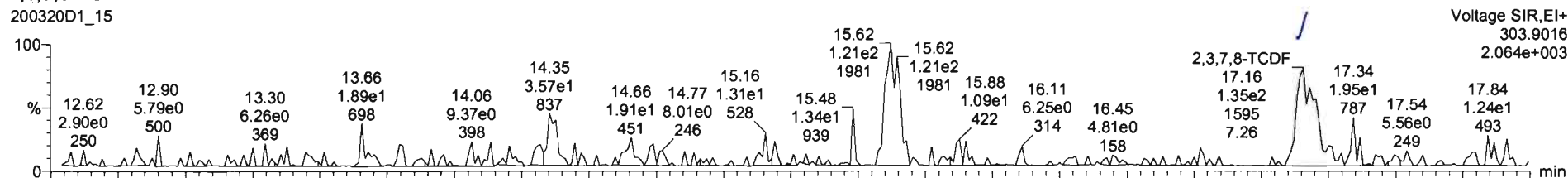
Dataset: U:\VG7.PRO\Results\200320D1\200320D1_15.qld

Last Altered: Monday, March 23, 2020 10:07:53 Pacific Daylight Time
Printed: Monday, March 23, 2020 10:09:28 Pacific Daylight Time

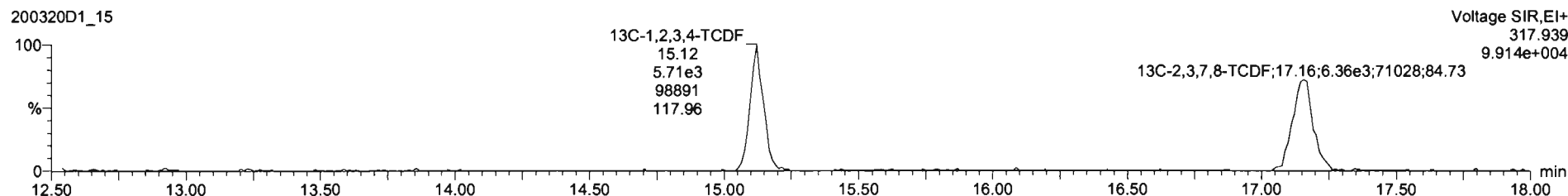
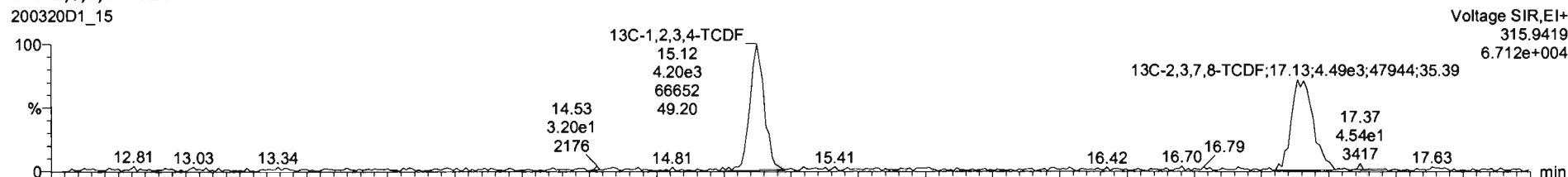
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 20 Mar 2020 11:48:01
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200320D1_15, Date: 20-Mar-2020, Time: 18:14:08, ID: 2000144-13RE1 PDI-084SC-A-01-02-191002 20.48, Description: PDI-084SC-A-01-02-191002

2,3,7,8-TCDF



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



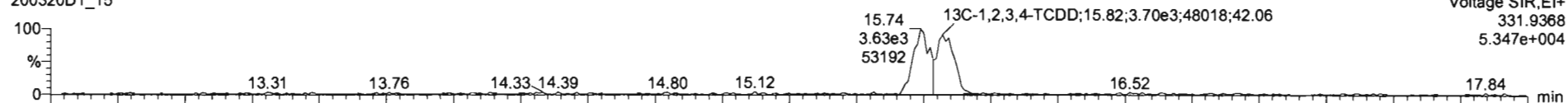
Dataset: U:\VG7.PRO\Results\200320D1\200320D1_15.qld

Last Altered: Monday, March 23, 2020 10:07:53 Pacific Daylight Time
Printed: Monday, March 23, 2020 10:09:28 Pacific Daylight Time

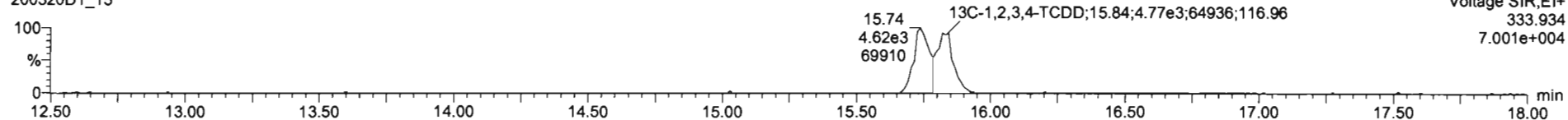
Name: 200320D1_15, Date: 20-Mar-2020, Time: 18:14:08, ID: 2000144-13RE1 PDI-084SC-A-01-02-191002 20.48, Description: PDI-084SC-A-01-02-191002

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

200320D1_15

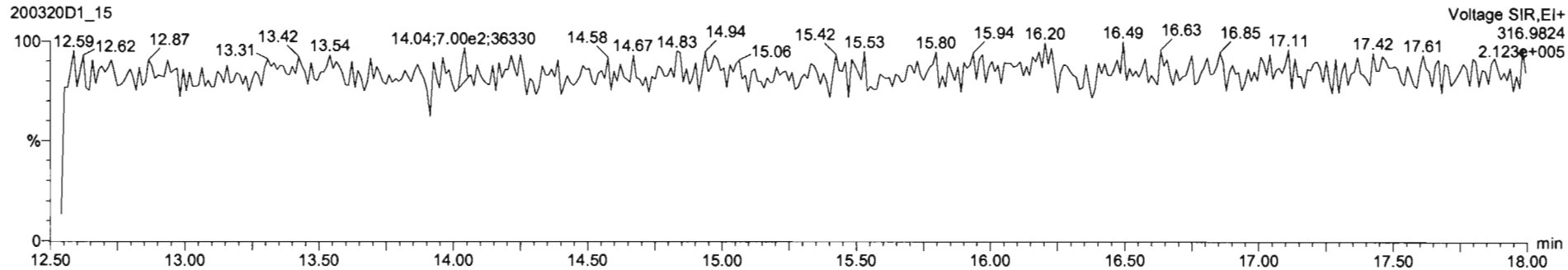


200320D1_15



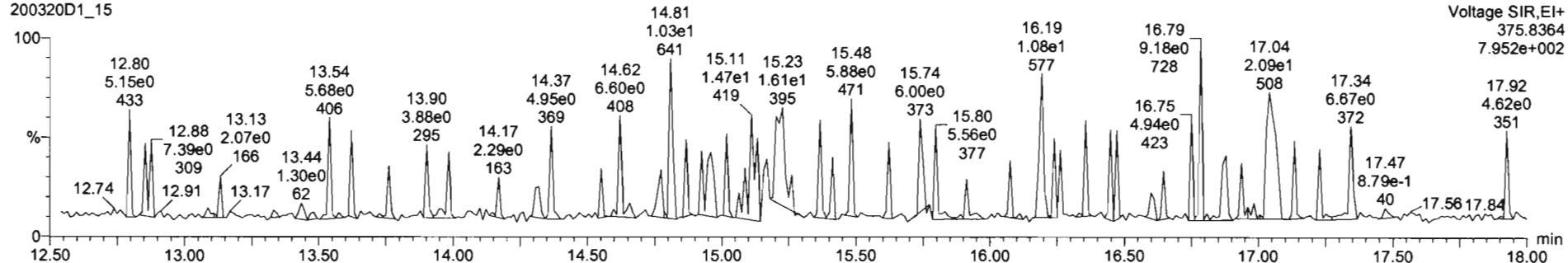
PFK1

200320D1_15



DPE1

200320D1_15



Dataset: U:\VG7.PRO\Results\200320D1\200320D1_16.qld

Last Altered: Monday, March 23, 2020 10:10:30 Pacific Daylight Time
Printed: Monday, March 23, 2020 10:11:35 Pacific Daylight Time

DB 3/23/20

0703/26/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 20 Mar 2020 11:48:01
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200320D1_16, Date: 20-Mar-2020, Time: 18:45:48, ID: 2000144-14RE1 PDI-084SC-A-02-03-191002 20.28, Description: PDI-084SC-A-02-03-191002

#	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	7.28e3	0.72	NO	0.982	10.121	17.177	17.16	1.000	1.000	133.71		4.37	134
2	2 13C-2,3,7,8-TCDF	1.10e4	0.74	NO	1.08	10.121	17.130	17.16	1.133	1.135	204.96	104	8.61	
3	3 13C-1,2,3,4-TCDF	9.76e3	0.79	NO	1.00	10.121	15.080	15.11	1.000	1.000	197.61	100	9.32	

Dataset: U:\VG7.PRO\Results\200320D1\200320D1_16.qld

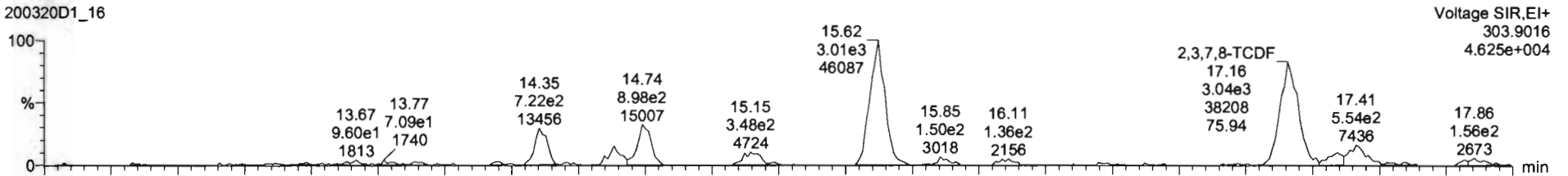
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Printed: Monday, March 23, 2020 10:11:54 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 20 Mar 2020 11:48:01
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

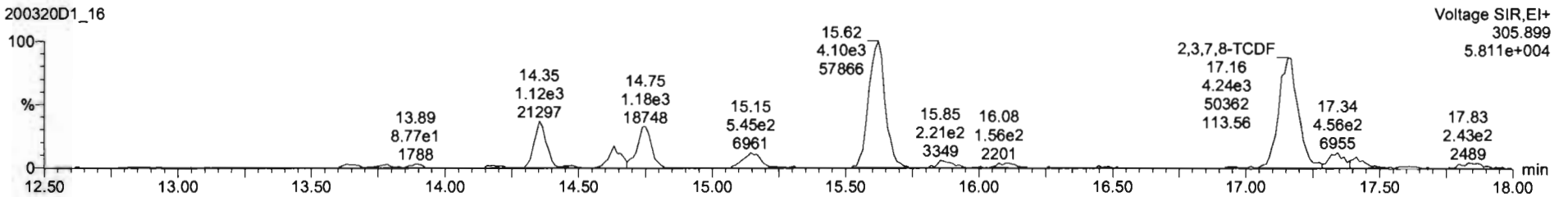
Name: 200320D1_16, Date: 20-Mar-2020, Time: 18:45:48, ID: 2000144-14RE1 PDI-084SC-A-02-03-191002 20.28, Description: PDI-084SC-A-02-03-191002

2,3,7,8-TCDF

200320D1_16

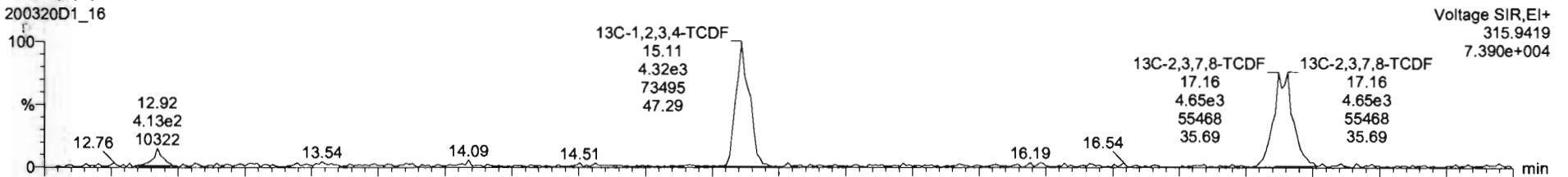


200320D1_16

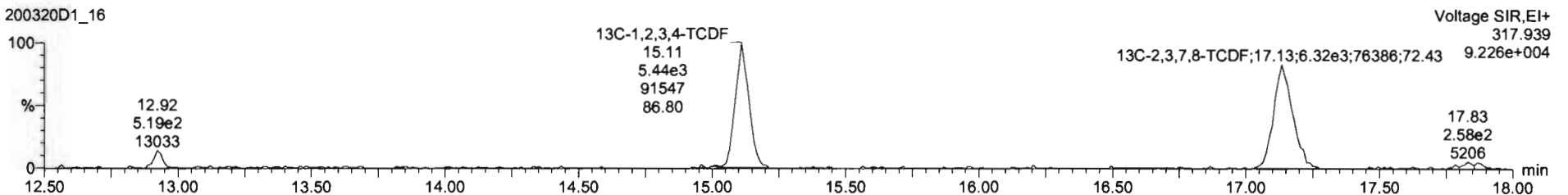


13C-2,3,7,8-TCDF

200320D1_16



200320D1_16



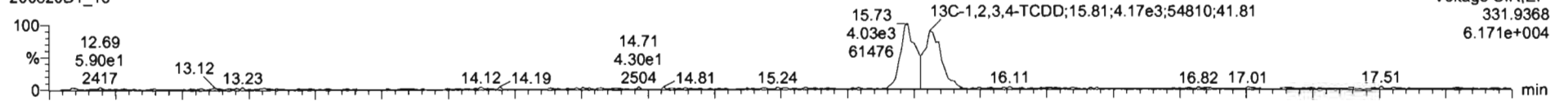
Dataset: U:\VG7.PRO\Results\200320D1\200320D1_16.qld

Last Altered: Monday, March 23, 2020 10:10:30 Pacific Daylight Time
Printed: Monday, March 23, 2020 10:11:54 Pacific Daylight Time

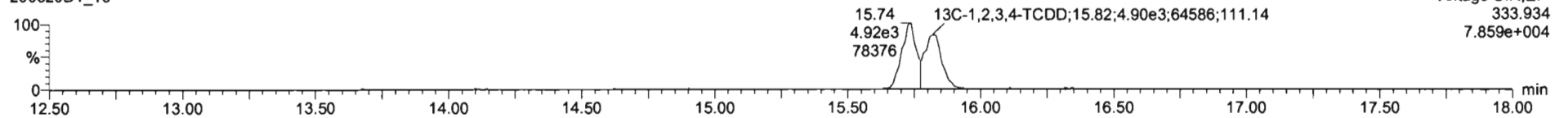
Name: 200320D1_16, Date: 20-Mar-2020, Time: 18:45:48, ID: 2000144-14RE1 PDI-084SC-A-02-03-191002 20.28, Description: PDI-084SC-A-02-03-191002

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

200320D1_16

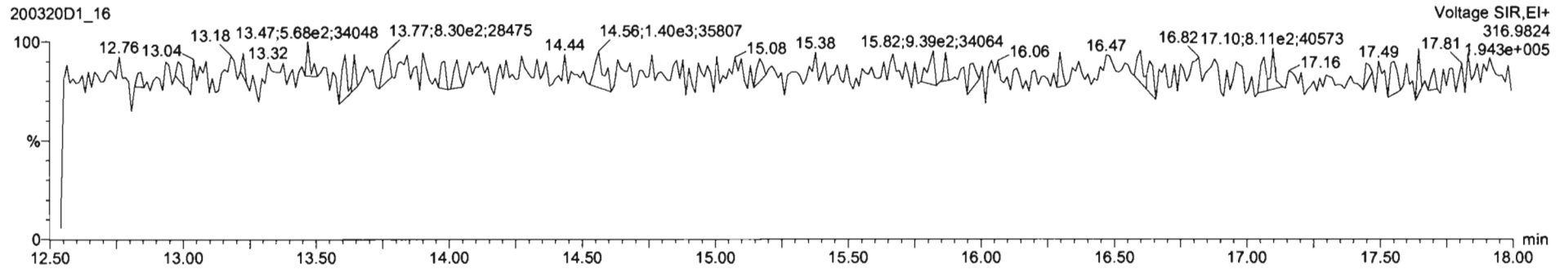


200320D1_16



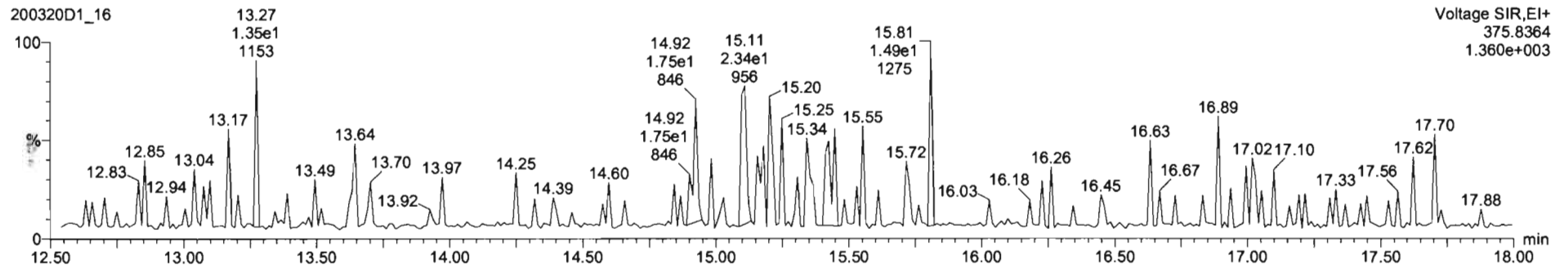
PFK1

200320D1_16



DPE1

200320D1_16



CONTINUING CALIBRATION

HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST20030721-1

Reviewed By: C1 03/09/2020
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"/> <u>↓</u>
- Samples within 12 hour clock?	<input checked="" type="checkbox"/> <u>(Y)</u>	<input type="checkbox"/> <u>N</u>
- Bottle position verified?	<u>GPB</u>	<u>GPB</u>

Mass resolution ≥

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

Intergrated peaks display correctly?

GC Break <20%

NA

8280 CS1 End Standard:

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

Comments:

FILAMENT DIED AFTER SAMPLE 14, BEFORE END RES CHECK. MANUAL RES CHECK PROCESSED AFTER FILAMENT WAS CHANGED w/ NO CHANGES TO THE TUNING.

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

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

NA

Dataset: U:\VG12.PRO\Results\300307R1\200307R1-1.qld

Last Altered: Monday, March 09, 2020 12:16:12 Pacific Daylight Time

Printed: Monday, March 09, 2020 12:17:04 Pacific Daylight Time

GRB 03/09/2020

C7 03/09/2020

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

Calibration: U:\VG12.PRO\CurveDB\lb5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200307R1_1, Date: 07-Mar-2020, Time: 09:44:00, ID: ST200307R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	1.11e5	1.15e6	0.79	NO	0.983	25.81	25.81	NO	1.001	1.001	9.8772	98.8	NO
2	2 1,2,3,7,8-PeCDD	3.45e5	7.62e5	0.63	NO	0.921	30.99	31.00	NO	1.001	1.001	49.170	98.3	NO
3	3 1,2,3,4,7,8-HxCDD	2.87e5	5.21e5	1.31	NO	1.13	34.37	34.38	NO	1.000	1.001	48.563	97.1	NO
4	4 1,2,3,6,7,8-HxCDD	3.24e5	6.79e5	1.26	NO	0.984	34.47	34.48	NO	1.000	1.000	48.512	97.0	NO
5	5 1,2,3,7,8,9-HxCDD	2.78e5	5.79e5	1.28	NO	0.967	34.74	34.75	NO	1.000	1.001	49.623	99.2	NO
6	6 1,2,3,4,6,7,8-HpCDD	2.15e5	4.48e5	1.00	NO	1.01	38.21	38.20	NO	1.000	1.000	47.741	95.5	NO
7	7 OCDD	4.19e5	8.39e5	0.89	NO	1.05	41.22	41.23	NO	1.000	1.000	95.077	95.1	NO
8	8 2,3,7,8-TCDF	1.46e5	1.65e6	0.78	NO	0.915	24.83	24.84	NO	1.001	1.001	9.7197	97.2	NO
9	9 1,2,3,7,8-PeCDF	5.62e5	1.19e6	1.56	NO	0.959	29.67	29.66	NO	1.001	1.001	49.197	98.4	NO
10	10 2,3,4,7,8-PeCDF	5.68e5	1.16e6	1.59	NO	1.00	30.70	30.68	NO	1.001	1.000	48.953	97.9	NO
11	11 1,2,3,4,7,8-HxCDF	3.82e5	7.71e5	1.20	NO	1.04	33.51	33.53	NO	1.000	1.001	47.728	95.5	NO
12	12 1,2,3,6,7,8-HxCDF	4.45e5	8.97e5	1.22	NO	1.01	33.64	33.65	NO	1.000	1.001	48.951	97.9	NO
13	13 2,3,4,6,7,8-HxCDF	4.14e5	8.07e5	1.22	NO	1.09	34.23	34.21	NO	1.001	1.000	46.955	93.9	NO
14	14 1,2,3,7,8,9-HxCDF	3.11e5	6.39e5	1.22	NO	1.03	35.07	35.09	NO	1.000	1.001	47.349	94.7	NO
15	15 1,2,3,4,6,7,8-HpCDF	2.95e5	6.03e5	1.01	NO	1.05	36.81	36.80	NO	1.001	1.001	46.615	93.2	NO
16	16 1,2,3,4,7,8,9-HpCDF	2.25e5	3.94e5	0.99	NO	1.21	38.82	38.83	NO	1.000	1.000	47.279	94.6	NO
17	17 OCDF	4.77e5	1.06e6	0.89	NO	0.947	41.40	41.41	NO	1.000	1.000	95.336	95.3	NO
18	18 13C-2,3,7,8-TCDD	1.15e6	9.97e5	0.81	NO	1.18	25.80	25.78	NO	1.029	1.028	97.053	97.1	NO
19	19 13C-1,2,3,7,8-PeCDD	7.62e5	9.97e5	0.65	NO	0.864	30.99	30.97	NO	1.236	1.235	88.475	88.5	NO
20	20 13C-1,2,3,4,7,8-HxCDD	5.21e5	8.08e5	1.27	NO	0.754	34.36	34.36	NO	1.014	1.014	85.556	85.6	NO
21	21 13C-1,2,3,6,7,8-HxCDD	6.79e5	8.08e5	1.27	NO	0.925	34.47	34.47	NO	1.017	1.017	90.814	90.8	NO
22	22 13C-1,2,3,7,8,9-HxCDD	5.79e5	8.08e5	1.23	NO	0.829	34.73	34.73	NO	1.025	1.025	86.405	86.4	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.48e5	8.08e5	1.05	NO	0.598	38.18	38.19	NO	1.127	1.127	92.678	92.7	NO
24	24 13C-OCDD	8.39e5	8.08e5	0.90	NO	0.571	41.32	41.22	NO	1.219	1.216	181.83	90.9	NO
25	25 13C-2,3,7,8-TCDF	1.65e6	1.58e6	0.79	NO	1.09	24.82	24.81	NO	0.990	0.989	95.771	95.8	NO
26	26 13C-1,2,3,7,8-PeCDF	1.19e6	1.58e6	1.59	NO	0.876	29.66	29.64	NO	1.183	1.182	86.040	86.0	NO
27	27 13C-2,3,4,7,8-PeCDF	1.16e6	1.58e6	1.58	NO	0.844	30.67	30.67	NO	1.223	1.223	86.903	86.9	NO
28	28 13C-1,2,3,4,7,8-HxCDF	7.71e5	8.08e5	0.52	NO	1.00	33.51	33.51	NO	0.989	0.989	95.464	95.5	NO
29	29 13C-1,2,3,6,7,8-HxCDF	8.97e5	8.08e5	0.53	NO	1.12	33.62	33.63	NO	0.992	0.992	99.405	99.4	NO
30	30 13C-2,3,4,6,7,8-HxCDF	8.07e5	8.08e5	0.54	NO	1.04	34.20	34.20	NO	1.009	1.009	96.515	96.5	NO
31	31 13C-1,2,3,7,8,9-HxCDF	6.39e5	8.08e5	0.52	NO	0.873	35.07	35.07	NO	1.035	1.035	90.610	90.6	NO

Dataset: U:\VG12.PRO\Results\300307R1\200307R1-1.qld

Last Altered: Monday, March 09, 2020 12:16:12 Pacific Daylight Time

Printed: Monday, March 09, 2020 12:17:04 Pacific Daylight Time

Name: 200307R1_1, Date: 07-Mar-2020, Time: 09:44:00, ID: ST200307R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	32 13C-1,2,3,4,6,7,8-HpCDF	6.03e5	8.08e5	0.44	NO	0.771	36.78	36.78	NO	1.085	1.085	96.812	96.8	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.94e5	8.08e5	0.43	NO	0.519	38.86	38.82	NO	1.147	1.145	93.914	93.9	NO
34	34 13C-OCDF	1.06e6	8.08e5	0.87	NO	0.696	41.50	41.40	NO	1.225	1.222	187.87	93.9	NO
35	35 37Cl-2,3,7,8-TCDD	1.12e5	9.97e5			1.17	25.81	25.81	NO	1.029	1.029	9.5496	95.5	NO
36	36 13C-1,2,3,4-TCDD	9.97e5	9.97e5	0.82	NO	1.00	25.05	25.08	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.58e6	1.58e6	0.79	NO	1.00	23.19	23.21	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	8.08e5	8.08e5	0.52	NO	1.00	33.88	33.89	NO	1.000	1.000	100.00	100	YES <i>OK</i>
39	39 Total Tetra-Dioxins		1.15e6			0.983	24.62		NO	0.000		85.293		NO
40	40 Total Penta-Dioxins		7.62e5			0.921	29.96		NO	0.000		221.74		NO
41	41 Total Hexa-Dioxins		0.00e0			0.984	33.63		NO	0.000		246.85		NO
42	42 Total Hepta-Dioxins		4.48e5			1.01	37.64		NO	0.000		128.04		NO
43	43 Total Tetra-Furans		1.65e6			0.915	23.61		NO	0.000		48.390		NO
44	44 1st Func. Penta-Furans		0.00e0			0.959	27.09		NO	0.000		92.889		NO
45	45 Total Penta-Furans		0.00e0			0.959	29.27		NO	0.000		168.13		NO
46	46 Total Hexa-Furans		0.00e0			1.09	33.56		NO	0.000		277.25		NO
47	47 Total Hepta-Furans		0.00e0			1.05	37.83		NO	0.000		93.894		NO

Dataset: Untitled

Last Altered: Monday, March 09, 2020 12:20:59 Pacific Daylight Time

Printed: Monday, March 09, 2020 12:25:45 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 06 Mar 2020 18:12:45

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

Name: 200307R1_1, Date: 07-Mar-2020, Time: 09:44:00, ID: ST200307R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	21.51
2	2 1,2,8,9-TCDD (Last)	26.83
3	3 1,2,4,7,9-PeCDD (First)	28.70
4	4 1,2,3,8,9-PeCDD (Last)	31.38
5	5 1,2,4,6,7,9-HxCDD (First)	32.91
6	6 1,2,3,7,8,9-HxCDD (Last)	34.75
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.17
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.20
9	9 1,3,6,8-TCDF (First)	19.49
10	10 1,2,8,9-TCDF (Last)	26.98
11	11 1,3,4,6,8-PeCDF (First)	26.93
12	12 1,2,3,8,9-PeCDF (Last)	31.63
13	13 1,2,3,4,6,8-HxCDF (First)	32.35
14	14 1,2,3,7,8,9-HxCDF (Last)	35.09
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.80
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.83

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Monday, March 09, 2020 12:32:01 Pacific Daylight Time

Printed: Monday, March 09, 2020 12:32:22 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 06 Mar 2020 18:12:45

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

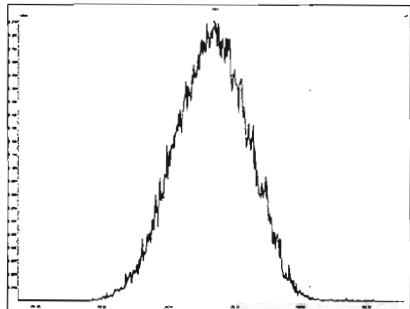
Compound name: 1,3,6,8-TCDD (First)

	Name	ID	Acq.Date	Acq.Time
1	200307R1_1	ST200307R1_1 1613 CS3 19L2305	07-Mar-20	09:44:00
2	200307R1_2	B0B0031-BS1 OPR 10	07-Mar-20	10:32:33
3	200307R1_3	SOLVENT BLANK	07-Mar-20	11:18:44
4	200307R1_4	B0B0031-BLK1 Method Blank 10	07-Mar-20	12:06:17
5	200307R1_5	1903736-10RE2 PDI-079SC-B-02-04-191014 ...	07-Mar-20	12:53:41
6	200307R1_6	2000144-01 PDI-052SC-A-06-07-191015 14.52	07-Mar-20	13:41:06
7	200307R1_7	B0B0031-DUP1 Duplicate 14.48	07-Mar-20	14:28:31
8	200307R1_8	2000144-02 PDI-055SC-A-02-03-191015 17.22	07-Mar-20	15:15:55
9	200307R1_9	2000144-03 PDI-055SC-A-03-04-191015 16.3	07-Mar-20	16:03:27
10	200307R1_10	2000144-04 PDI-059SC-A-12-13-191016 13.26	07-Mar-20	16:51:01
11	200307R1_11	2000144-05 PDI-064SC-A-02-03-190929 19.1	07-Mar-20	17:38:33
12	200307R1_12	2000144-06 PDI-064SC-A-03-04-190929 16.68	07-Mar-20	18:25:57
13	200307R1_13	2000144-07 PDI-079SC-A-08-09-191014 15.43	07-Mar-20	19:13:23
14	200307R1_14	2000144-08 PDI-079SC-A-09-10-191014 12.23	07-Mar-20	20:00:47

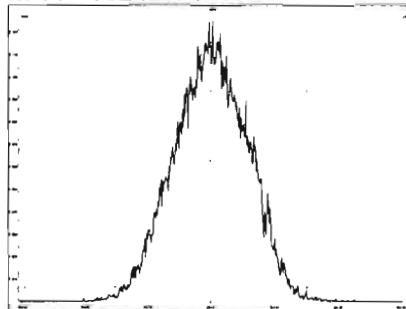
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Saturday, March 07, 2020 09:38:03 Pacific Standard Time

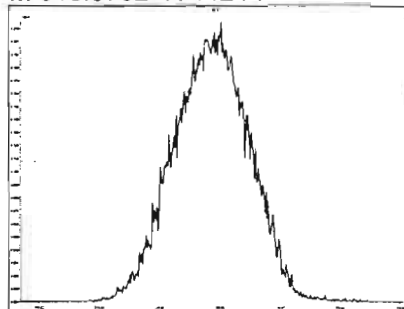
M 292.9824 R 11411



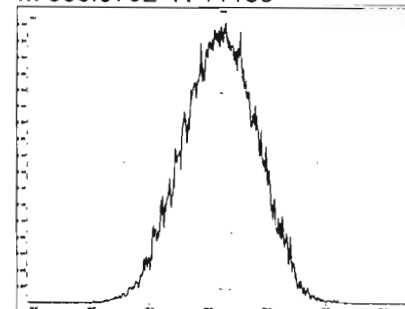
M 304.9824 R 11574



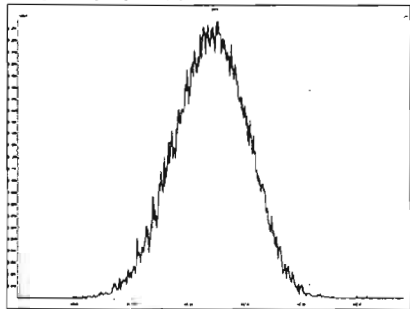
M 318.9792 R 11214



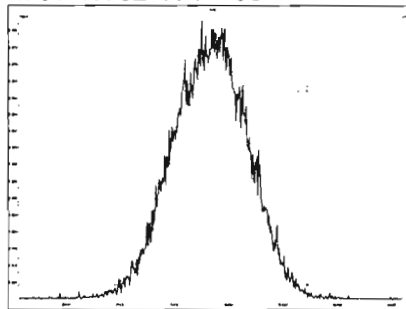
M 330.9792 R 11156



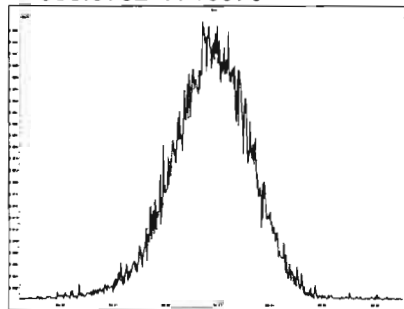
M 342.9792 R 11160



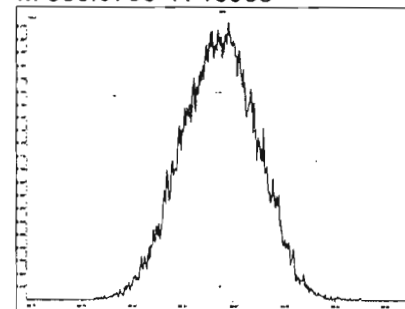
M 354.9792 R 11158



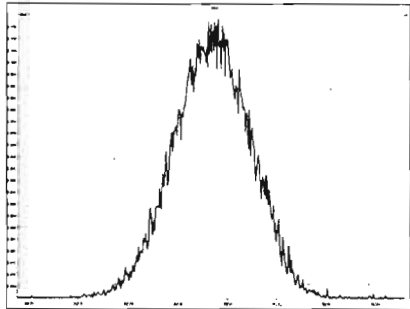
M 366.9792 R 10373



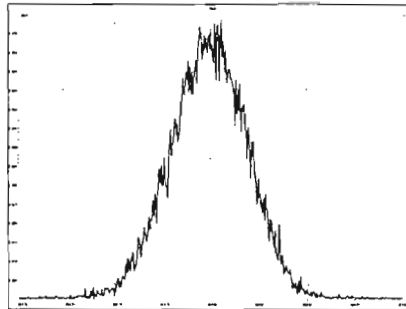
M 380.9760 R 10968



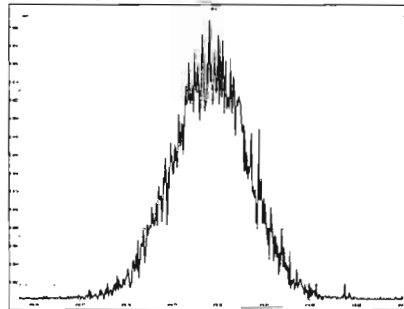
M 392.9760 R 10966



M 404.9760 R 11260



M 416.9760 R 10871



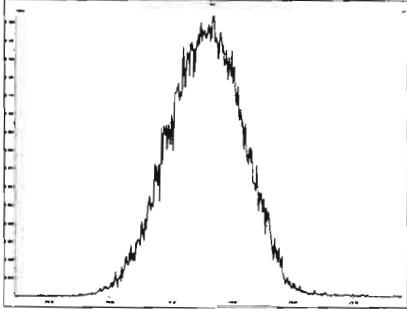
Experiment Calibration Report

MassLynx 4.1 SCN815

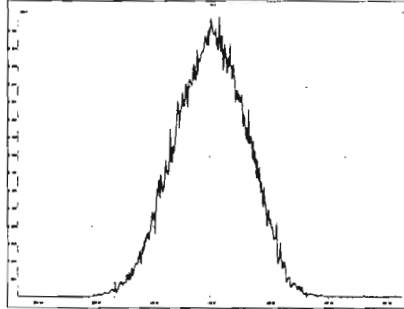
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Saturday, March 07, 2020 09:38:46 Pacific Standard Time

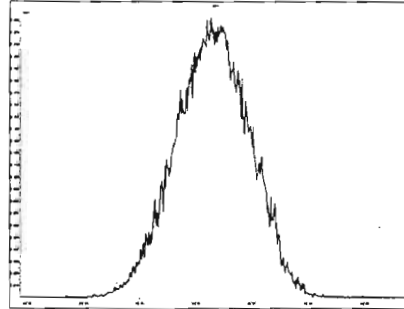
M 318.9792 R 11626



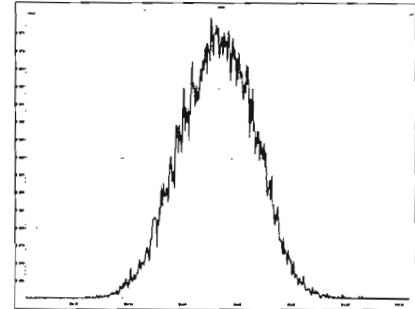
M 330.9792 R 11517



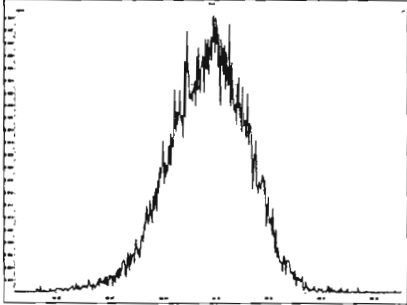
M 342.9792 R 11312



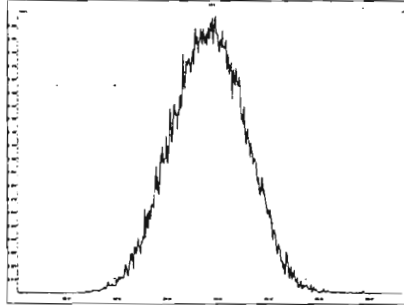
M 354.9792 R 10915



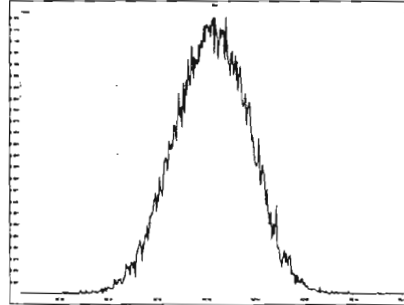
M 366.9792 R 10776



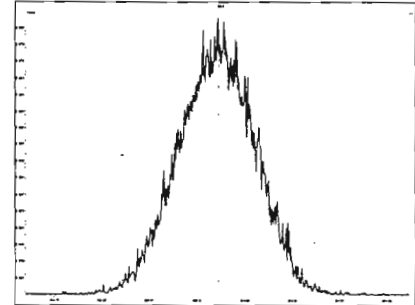
M 380.9760 R 10821



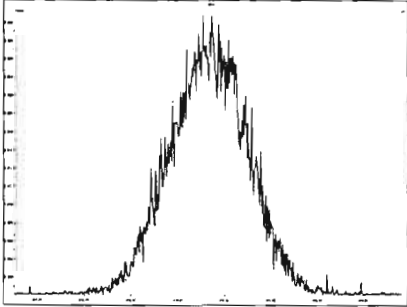
M 392.9760 R 11208



M 404.9760 R 11312



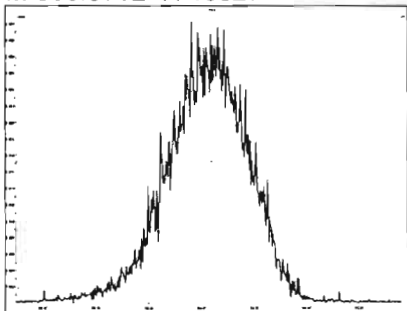
M 416.9760 R 10825



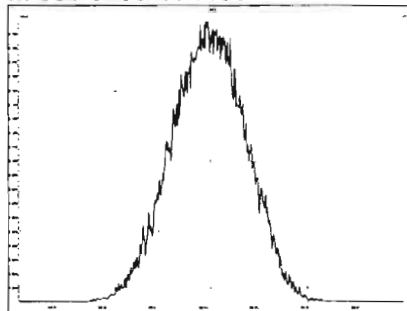
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Saturday, March 07, 2020 09:39:25 Pacific Standard Time

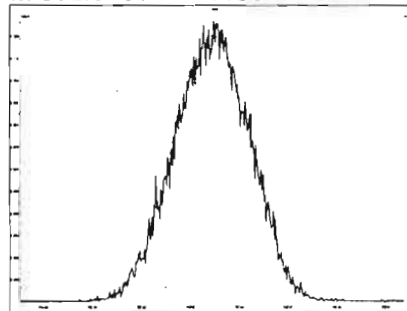
M 366.9792 R 10327



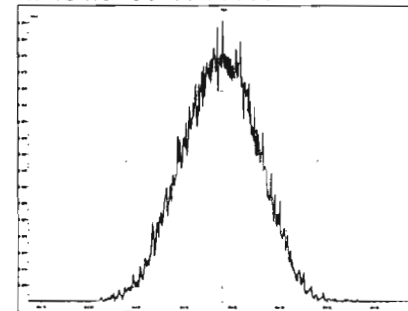
M 380.9760 R 11061



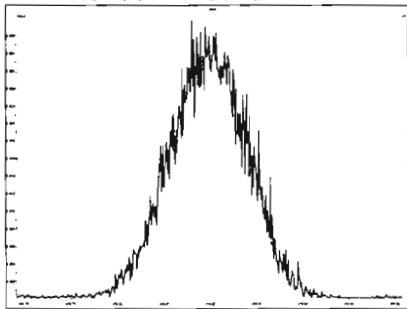
M 392.9760 R 11158



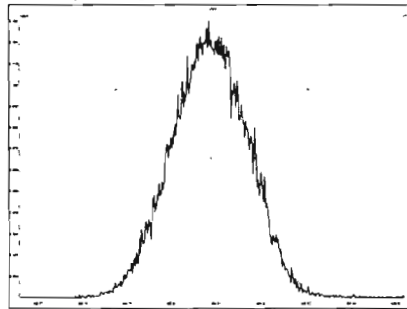
M 404.9760 R 11111



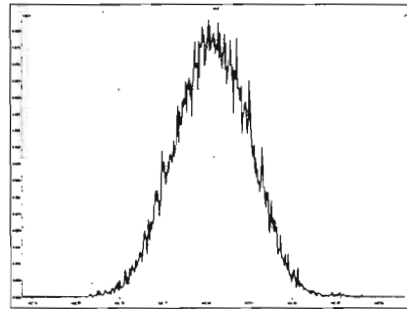
M 416.9760 R 10915



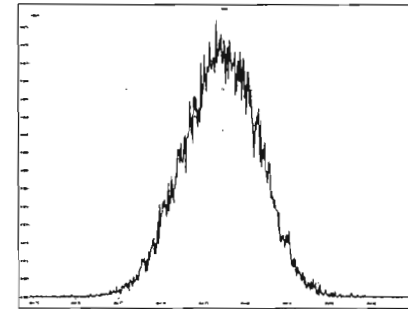
M 430.9728 R 11063



M 442.9728 R 11110



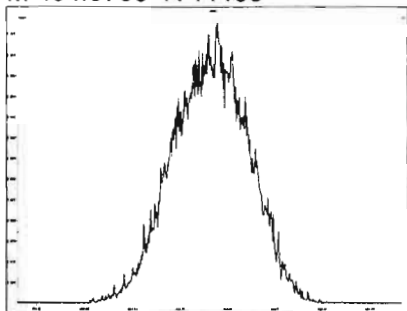
M 454.9728 R 11113



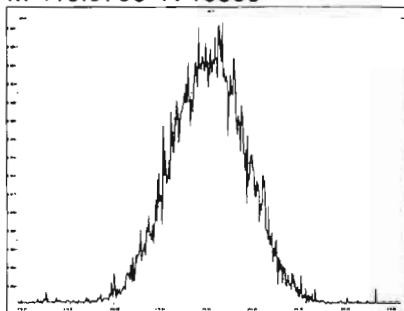
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Saturday, March 07, 2020 09:40:17 Pacific Standard Time

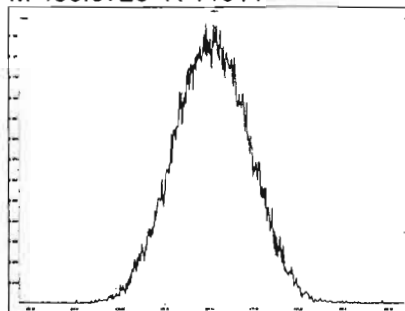
M 404.9760 R 11108



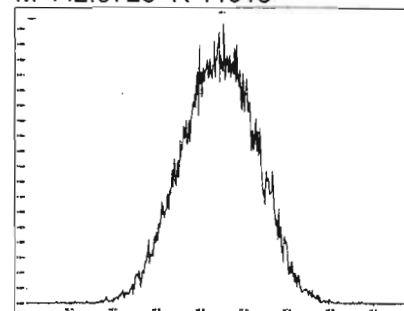
M 416.9760 R 10869



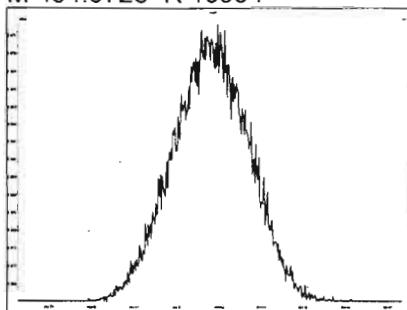
M 430.9728 R 11011



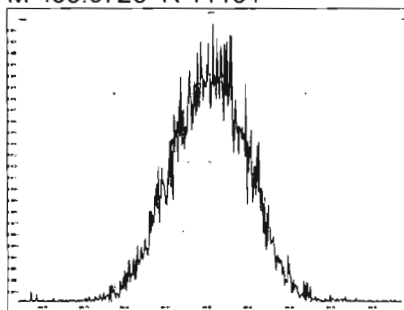
M 442.9728 R 11013



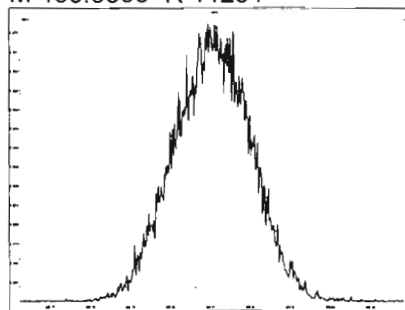
M 454.9728 R 10964



M 466.9728 R 11161



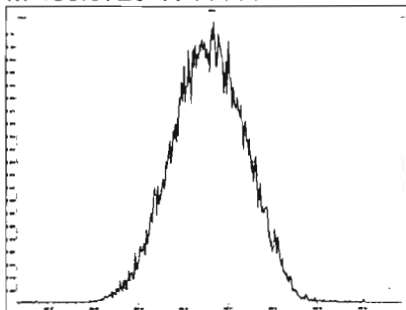
M 480.9696 R 11261



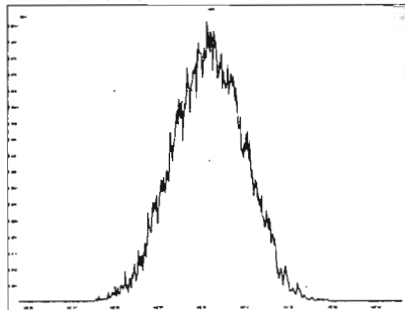
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Saturday, March 07, 2020 09:40:58 Pacific Standard Time

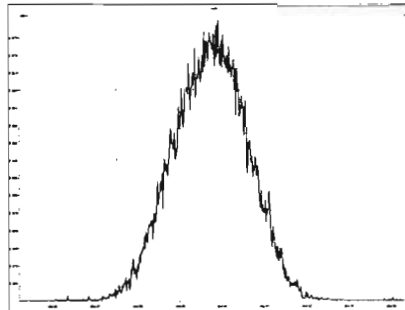
M 430.9728 R 11111



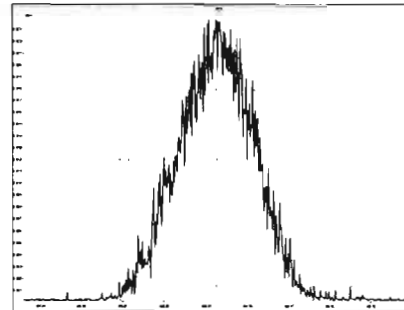
M 442.9728 R 11964



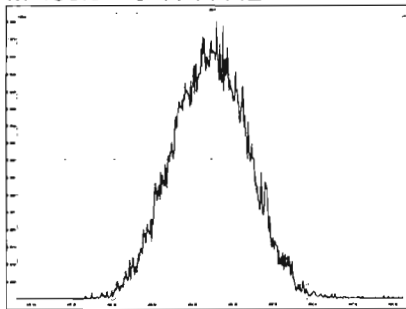
M 454.9728 R 11416



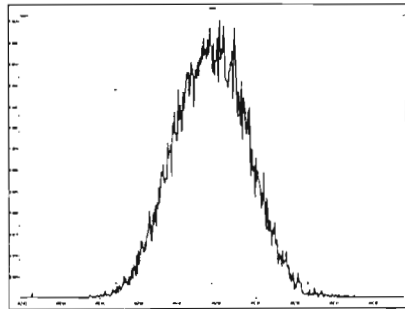
M 466.9728 R 11736



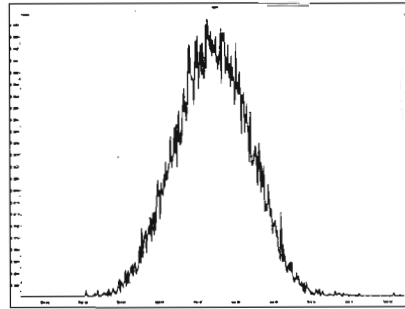
M 480.9696 R 11112



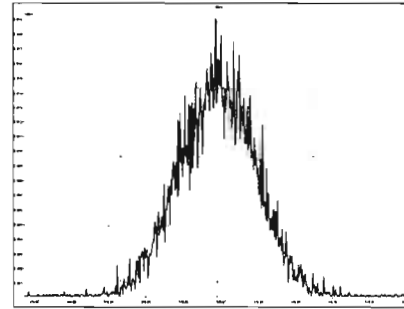
M 492.9696 R 11211



M 504.9696 R 11110



M 516.9697 R 11208



Dataset: Untitled

Last Altered: Monday, March 09, 2020 12:20:59 Pacific Daylight Time
Printed: Monday, March 09, 2020 12:25:45 Pacific Daylight Time

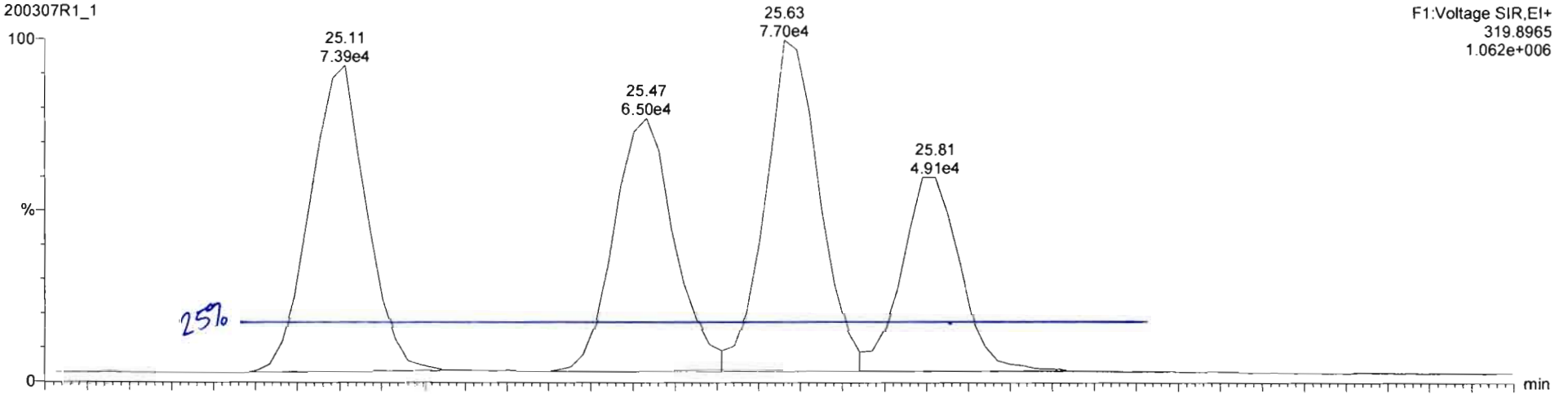
GPB 03/09/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 06 Mar 2020 18:12:45
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

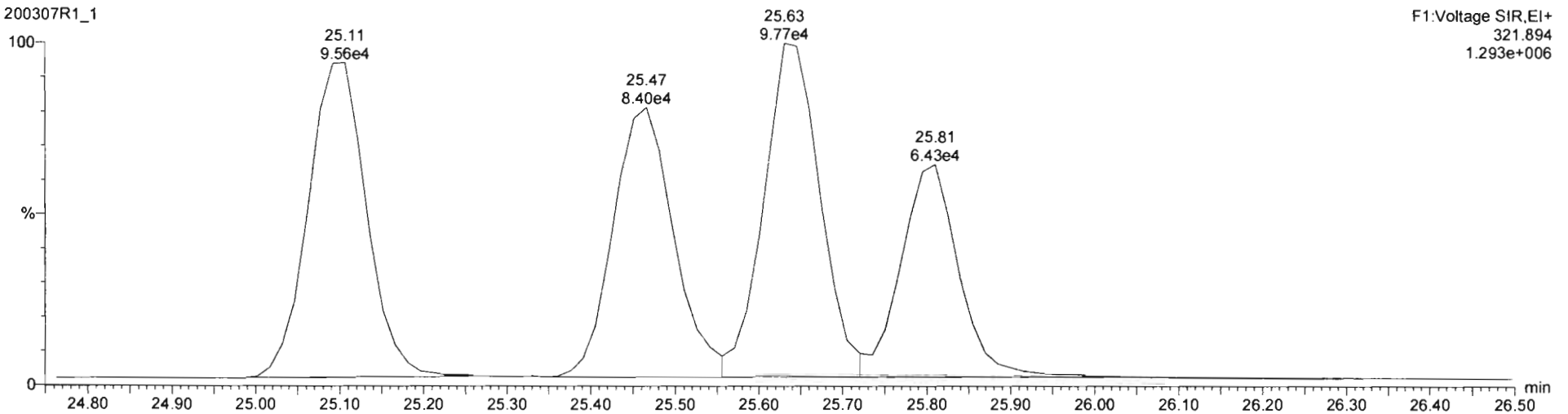
Name: 200307R1_1, Date: 07-Mar-2020, Time: 09:44:00, ID: ST200307R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200307R1_1



200307R1_1



Dataset: Untitled

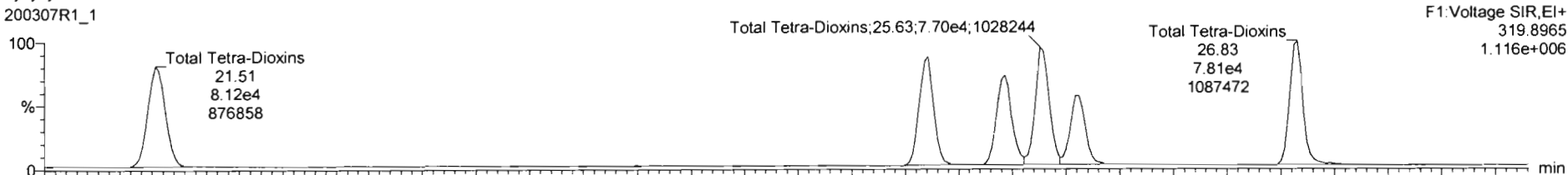
Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time
Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

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

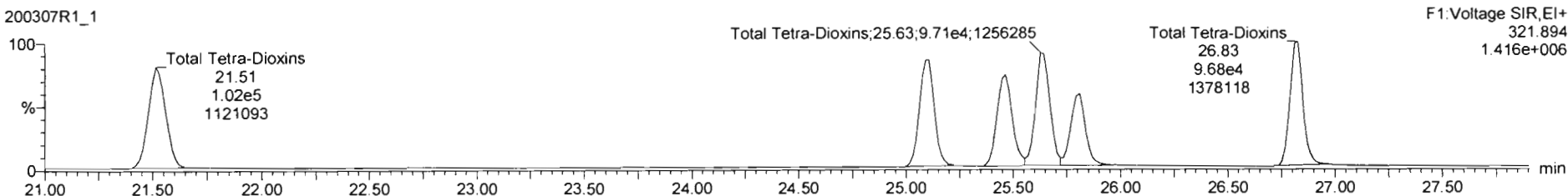
Name: 200307R1_1, Date: 07-Mar-2020, Time: 09:44:00, ID: ST200307R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD

200307R1_1

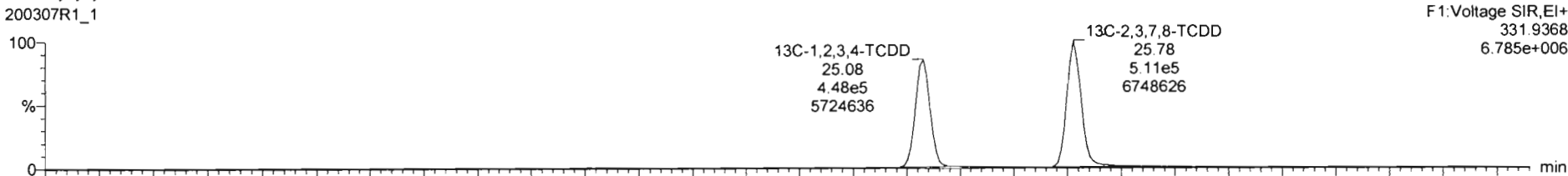


200307R1_1

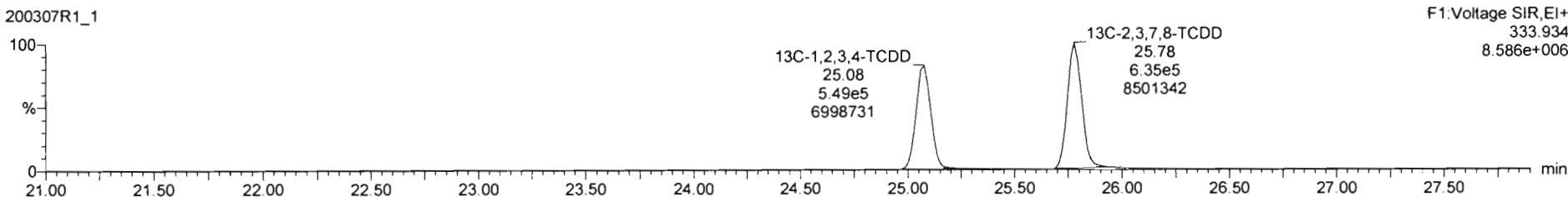


13C-2,3,7,8-TCDD

200307R1_1



200307R1_1



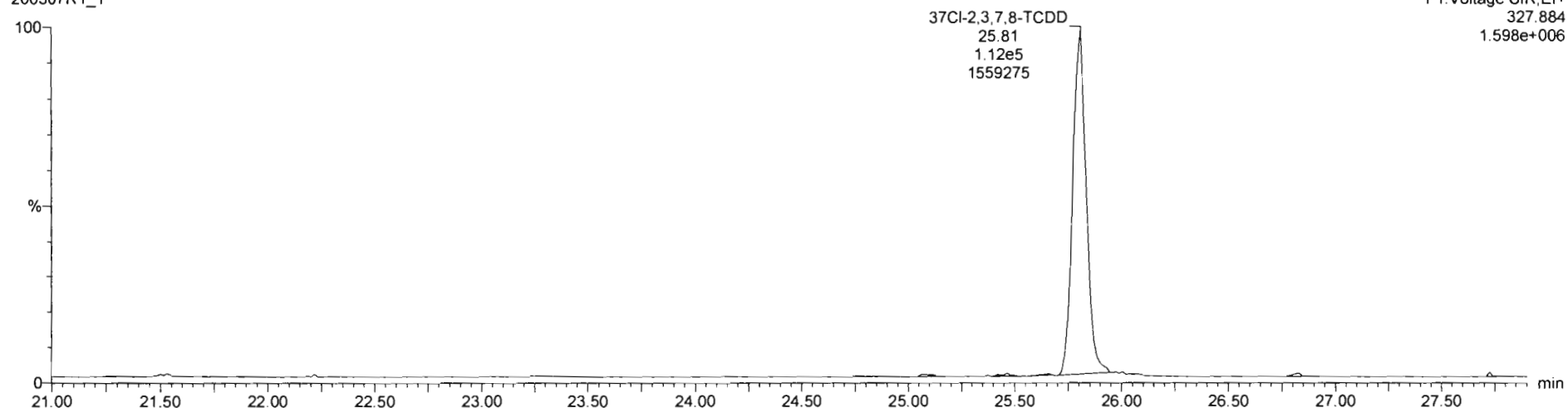
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Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time
Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

Name: 200307R1_1, Date: 07-Mar-2020, Time: 09:44:00, ID: ST200307R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

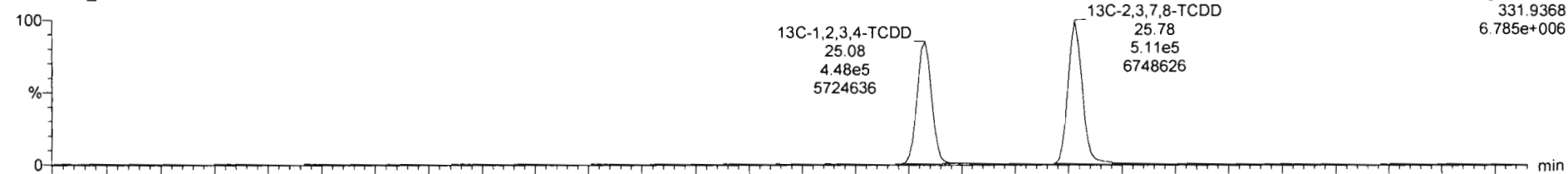
37Cl-2,3,7,8-TCDD

200307R1_1

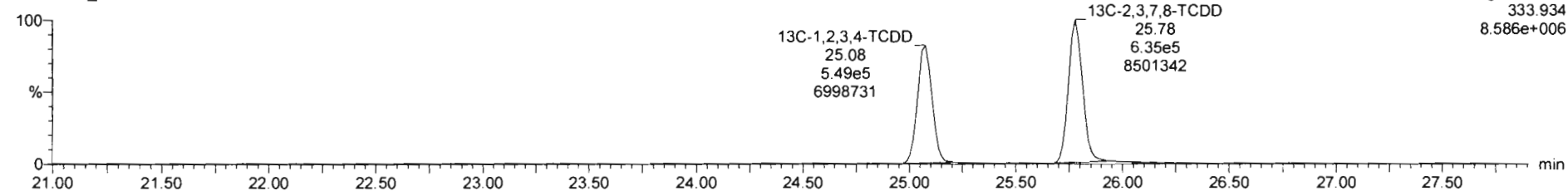


13C-1,2,3,4-TCDD

200307R1_1



200307R1_1



Dataset: Untitled

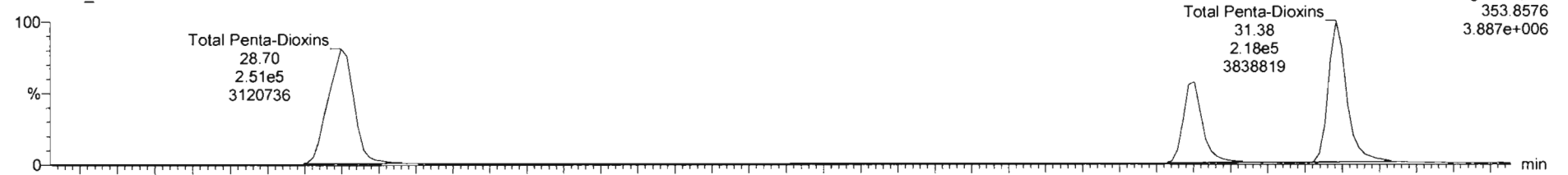
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Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

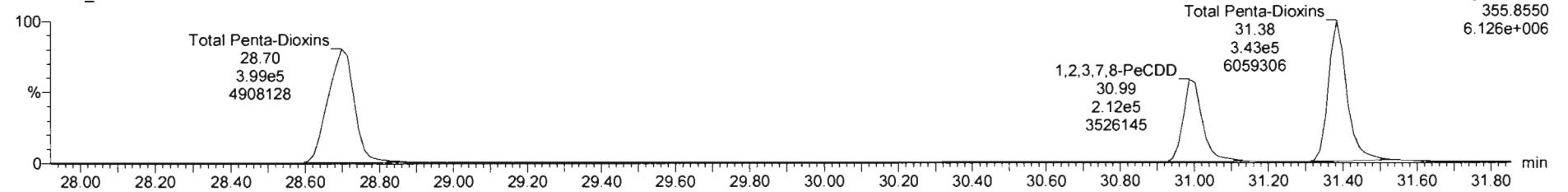
Name: 200307R1_1, Date: 07-Mar-2020, Time: 09:44:00, ID: ST200307R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,7,8-PeCDD

200307R1_1

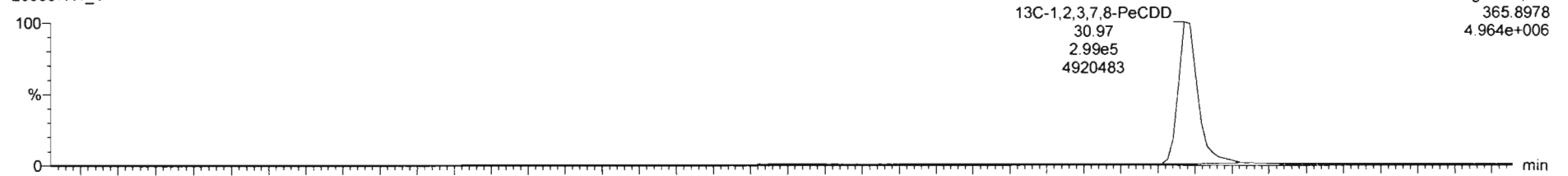


200307R1_1

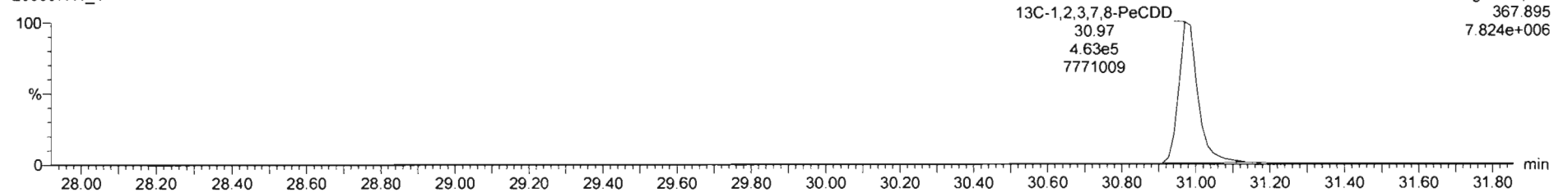


13C-1,2,3,7,8-PeCDD

200307R1_1



200307R1_1



Dataset: Untitled

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

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

Name: 200307R1_1, Date: 07-Mar-2020, Time: 09:44:00, ID: ST200307R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

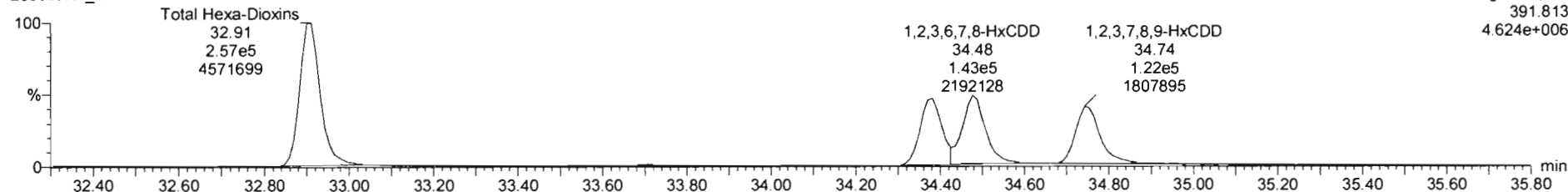
DATE: 20030711 11

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

200307R1_1

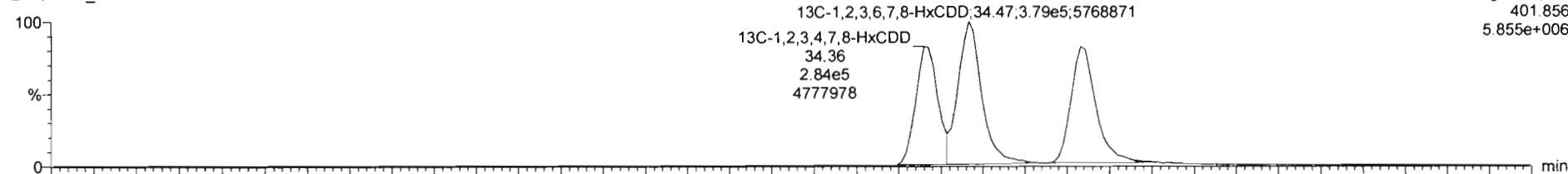


200307R1_1

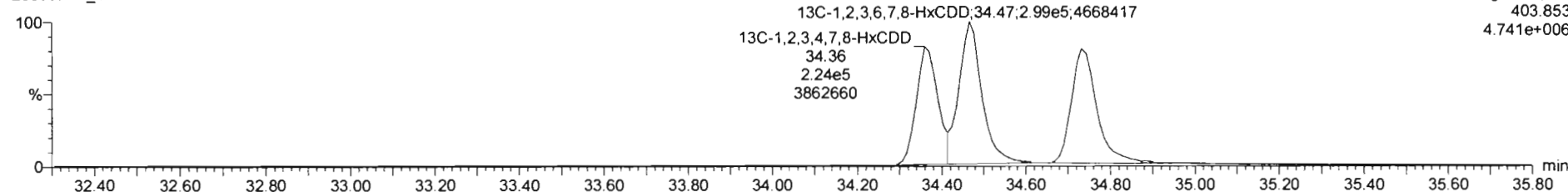


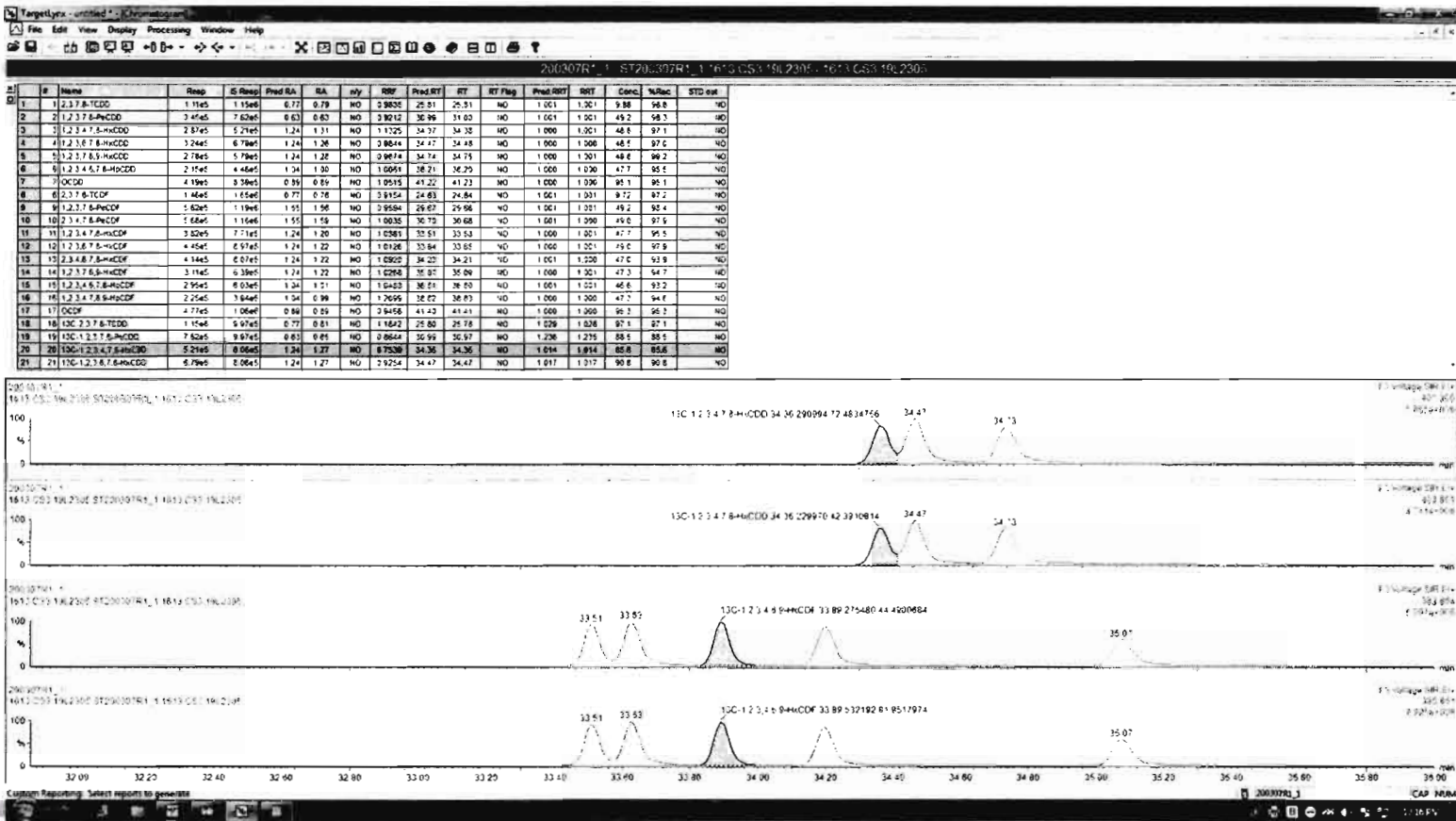
13C-1,2,3,4,7,8-HxCDD

200307R1_1



200307R1_1





Dataset: Untitled

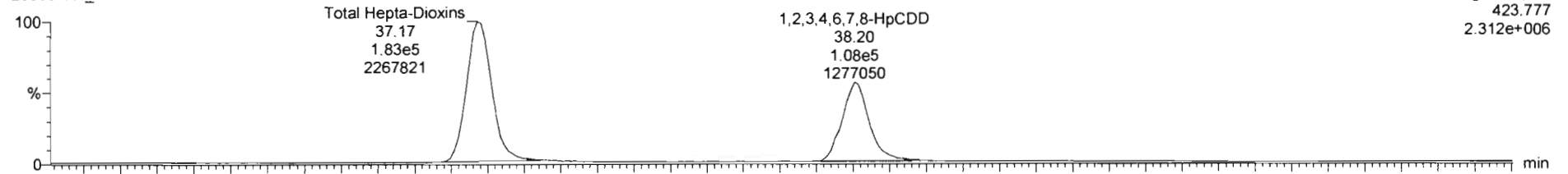
Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time

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

0, ID: ST200307R1_1, Date: 07-Mar-2020, Time: 09:44:00, ID: ST200307R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

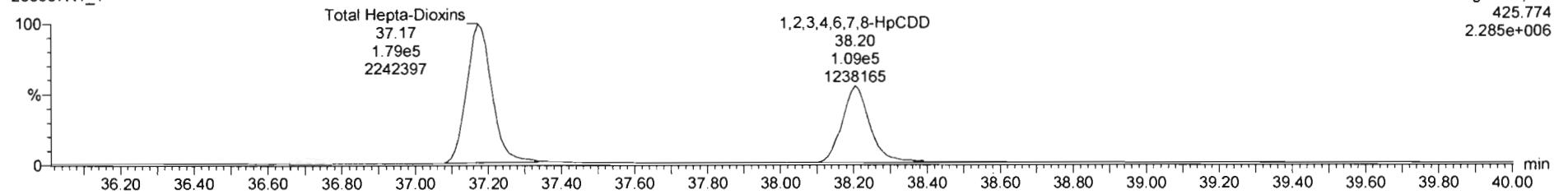
1,2,3,4,6,7,8-HpCDD

200307R1_1



F4:Voltage SIR,EI+
423.777
2.312e+006

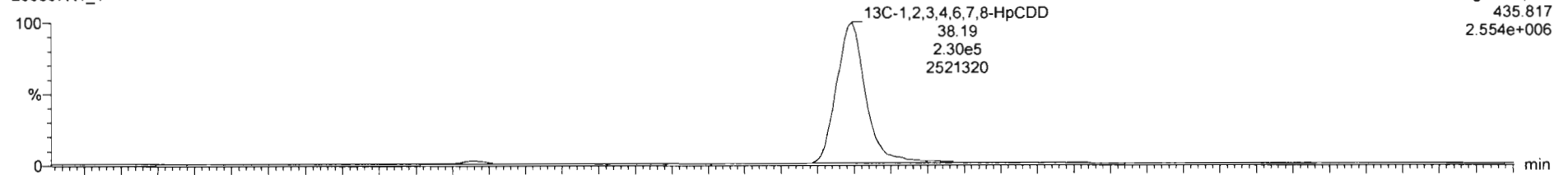
200307R1_1



F4:Voltage SIR,EI+
425.774
2.285e+006

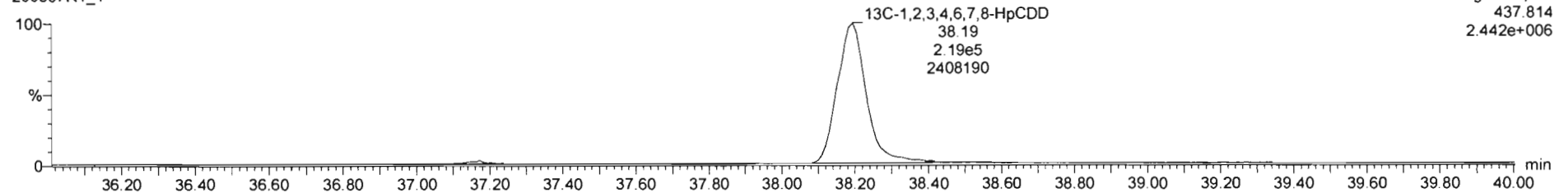
13C-1,2,3,4,6,7,8-HpCDD

200307R1_1

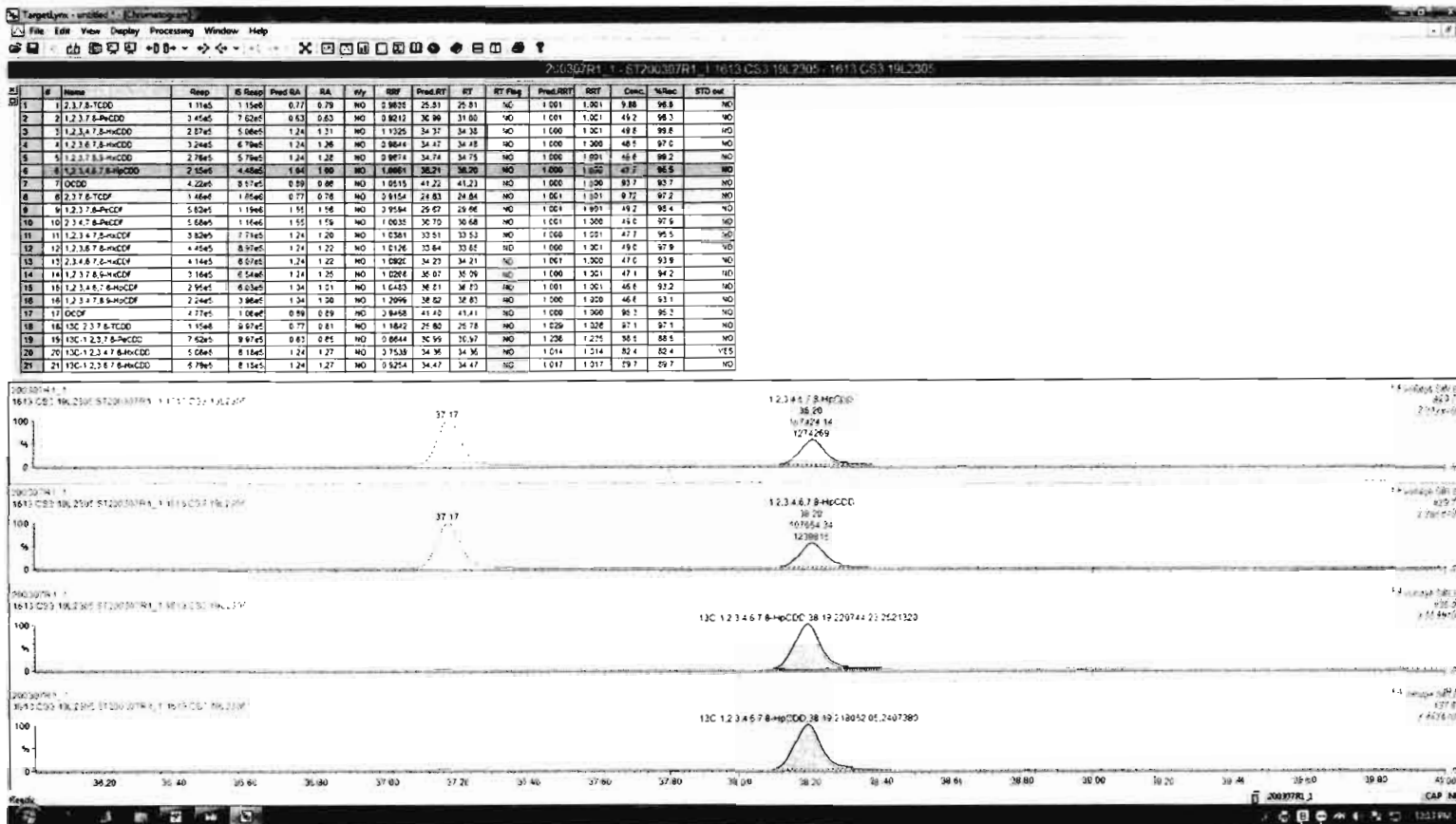


F4:Voltage SIR,EI+
435.817
2.554e+006

200307R1_1



F4:Voltage SIR,EI+
437.814
2.442e+006

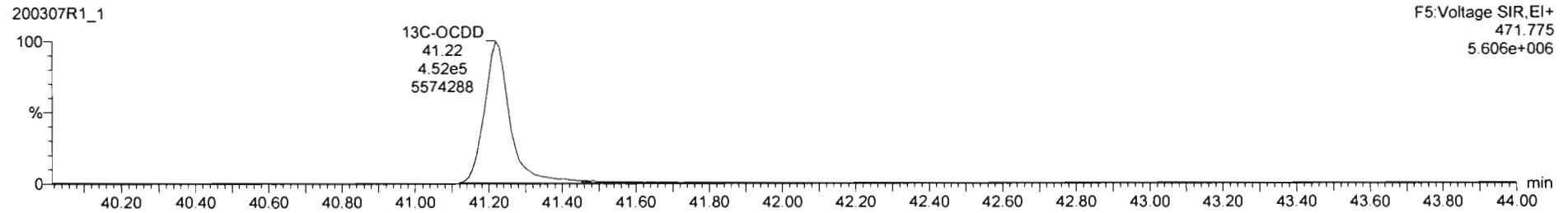
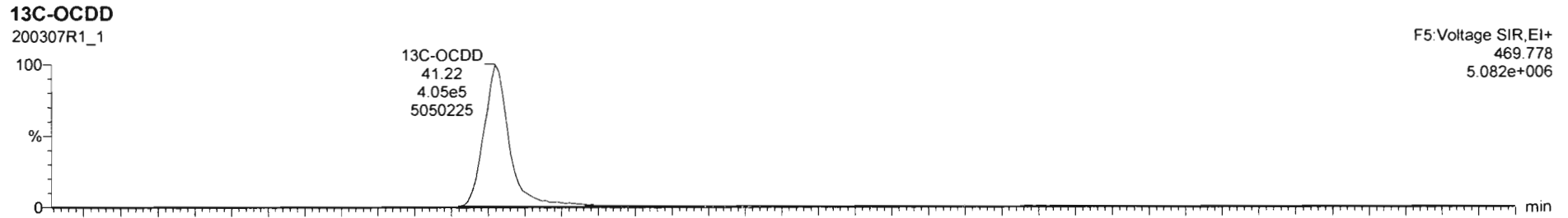
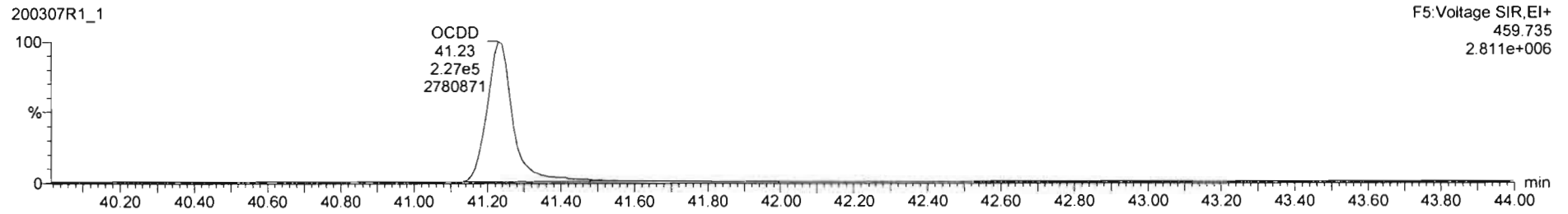
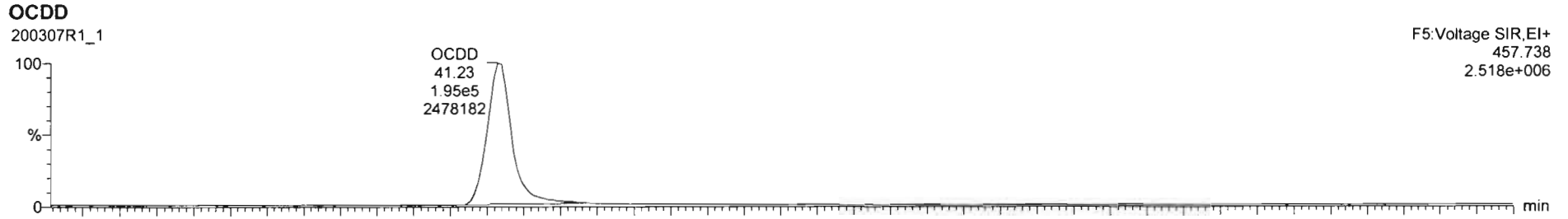


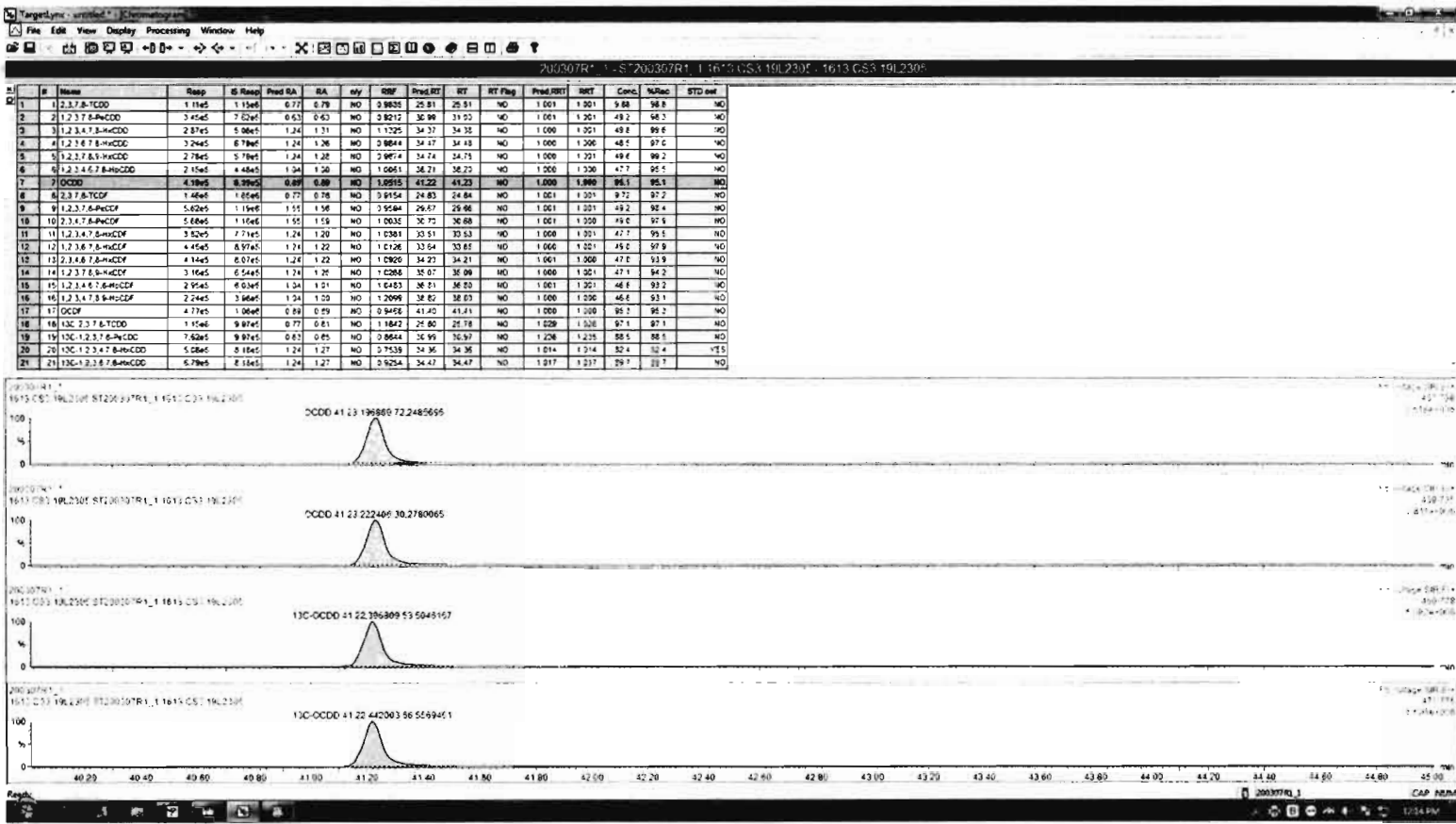
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Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time

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

Name: 200307R1_1, Date: 07-Mar-2020, Time: 09:44:00, ID: ST200307R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305





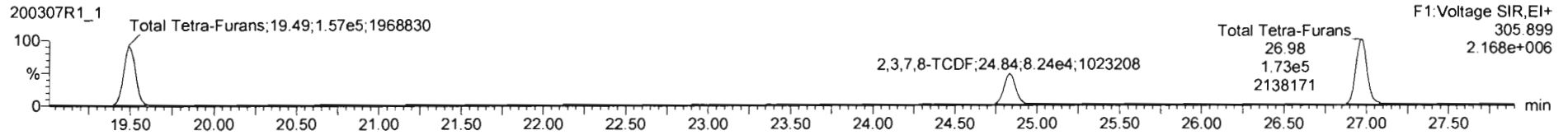
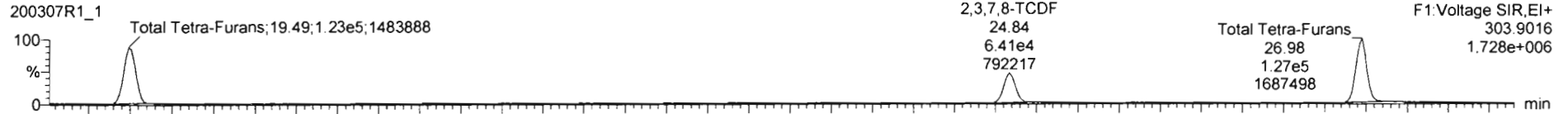
#	Name	Resp	IS Resp	Prod DA	RA	ely	QSP	Prod RT	RT	RT Flag	Prod.RRT	RRT	Comp.	NRac	STD ref.
1	1,2,3,7,8-TCDD	1.15e5	1.15e6	0.77	0.79	NO	3.9635	25.91	25.91	NO	1.001	1.001	9.88	98.8	NO
2	1,2,3,7,8-PeCDD	3.45e5	7.02e5	0.63	0.63	NO	3.8212	30.99	31.00	NO	1.001	1.001	49.2	66.3	NO
3	1,2,3,4,7,8-HxCDD	2.87e5	5.86e5	1.24	1.31	NO	1.1225	34.37	34.35	NO	1.000	1.001	49.8	99.6	NO
4	1,2,3,6,7,8-HxCDD	3.24e5	6.79e5	1.24	1.26	NO	3.9844	34.17	34.18	NO	1.000	1.000	48.5	97.0	NO
5	1,2,3,7,8,9-HxCDD	2.78e5	3.79e5	1.24	1.25	NO	3.9574	34.74	34.75	NO	1.000	1.001	49.6	99.2	NO
6	1,2,3,4,6,7,8-HxCDD	2.15e5	4.48e5	1.24	1.20	NO	1.0061	38.23	38.22	NO	1.000	1.000	47.1	95.5	NO
7	OCDD	4.19e5	8.29e5	0.89	0.89	NO	3.2915	41.22	41.23	NO	1.000	1.000	95.1	95.1	NO
8	2,3,7,8-TCDF	1.46e5	1.85e5	0.77	0.78	NO	3.9154	24.83	24.84	NO	1.001	1.001	9.72	97.2	NO
9	1,2,3,7,8-PeCDF	5.62e5	1.15e6	1.51	1.58	NO	3.9584	26.67	26.66	NO	1.001	1.001	49.2	92.4	NO
10	1,2,3,4,7,8-HxCDF	5.68e5	1.15e6	1.51	1.59	NO	1.0032	30.70	30.68	NO	1.001	1.000	49.0	97.9	NO
11	1,2,3,4,7,8-HxCDF	3.52e5	7.71e5	1.24	1.20	NO	1.0301	30.51	30.53	NO	1.000	1.001	47.7	95.5	NO
12	1,2,3,6,7,8-HxCDF	4.45e5	8.97e5	1.24	1.22	NO	1.0126	33.04	33.05	NO	1.000	1.001	49.0	97.9	NO
13	1,2,3,4,6,7,8-HxCDF	4.14e5	8.07e5	1.24	1.22	NO	1.0020	34.23	34.21	NO	1.001	1.000	47.0	93.9	NO
14	1,2,3,7,8,9-HxCDF	3.16e5	6.54e5	1.24	1.20	NO	1.0282	35.07	35.09	NO	1.000	1.001	47.1	94.2	NO
15	1,2,3,4,6,7,8-HxCDF	2.95e5	6.03e5	1.24	1.21	NO	1.0483	36.51	36.50	NO	1.001	1.001	46.6	93.2	NO
16	1,2,3,4,7,8-HxCDF	2.24e5	3.96e5	1.24	1.20	NO	1.2099	38.82	38.83	NO	1.000	1.000	46.6	93.1	NO
17	OCDF	4.77e5	1.06e6	0.89	0.89	NO	0.9458	41.40	41.41	NO	1.000	1.000	95.2	95.2	NO
18	1,2,3,7,8-TCDF	1.15e6	9.97e6	0.77	0.81	NO	1.1842	25.80	25.78	NO	1.000	1.000	97.1	97.1	NO
19	1,2,3,7,8-PeCDF	7.58e5	9.97e5	0.63	0.65	NO	3.8964	35.99	35.97	NO	1.000	1.000	88.5	88.5	NO
20	1,2,3,4,7,8-HxCDF	5.58e5	9.18e5	1.24	1.27	NO	3.7538	34.36	34.36	NO	1.000	1.000	82.4	82.4	YES
21	1,2,3,4,6,7,8-HxCDF	6.79e5	2.18e6	1.24	1.27	NO	3.9254	34.47	34.47	NO	1.000	1.000	89.7	89.7	NO

Dataset: Untitled

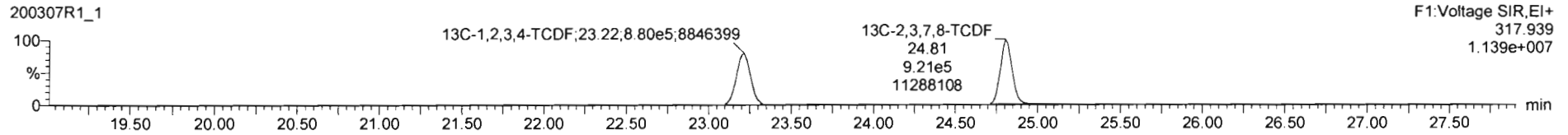
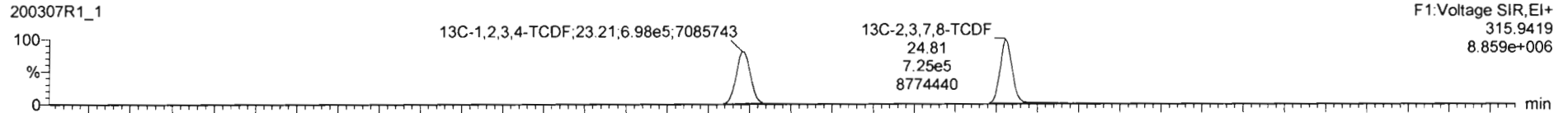
Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time
Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

Name: 200307R1_1; Date: 07-Mar-2020, Time: 09:44:00, ID: ST200307R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

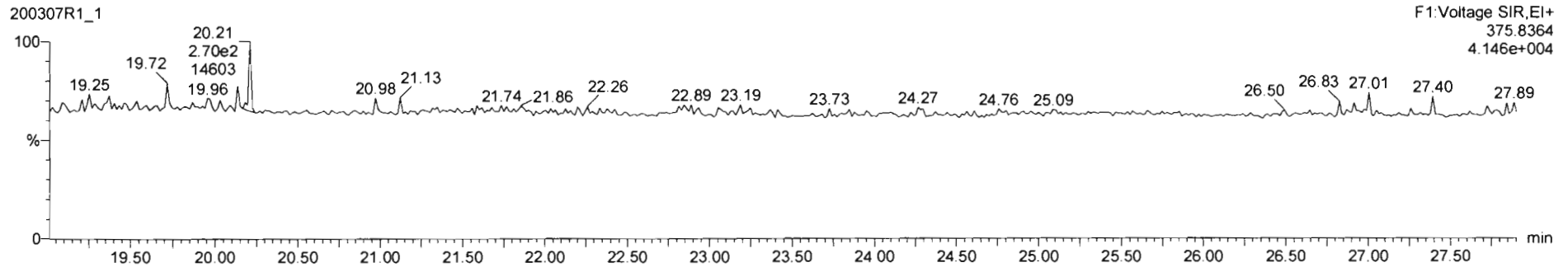
2,3,7,8-TCDF



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



DPE1



Dataset: Untitled

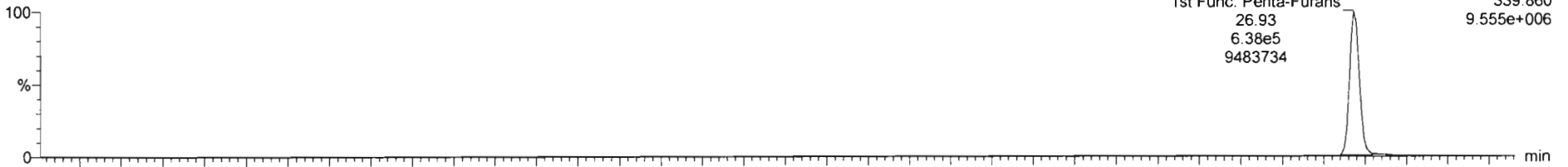
Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time

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

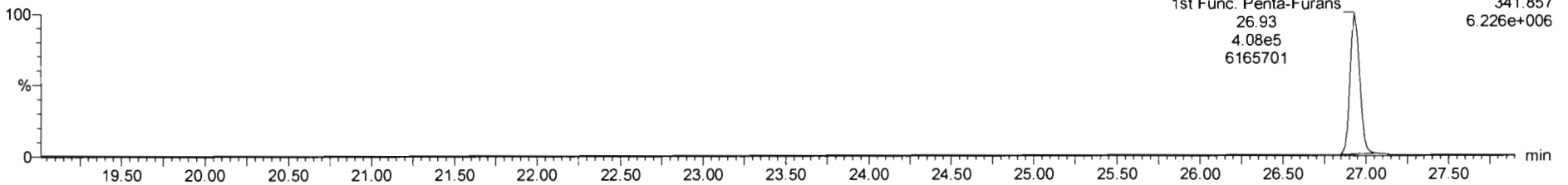
Name: 200307R1_1, Date: 07-Mar-2020, Time: 09:44:00, ID: ST200307R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1st Func. Penta-Furans

200307R1_1

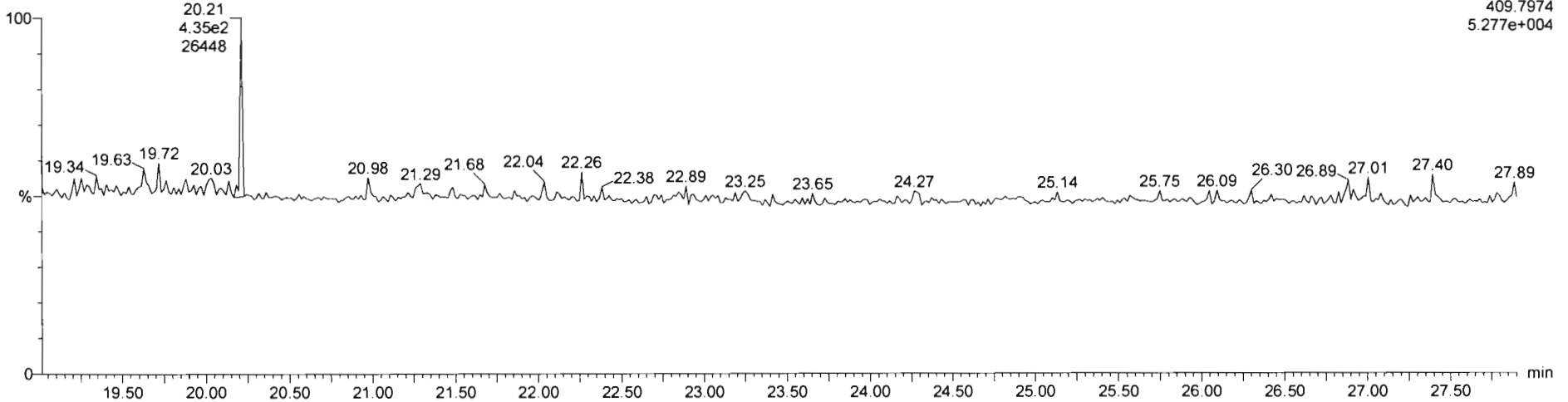


200307R1_1



DPE6

200307R1_1



Dataset: Untitled

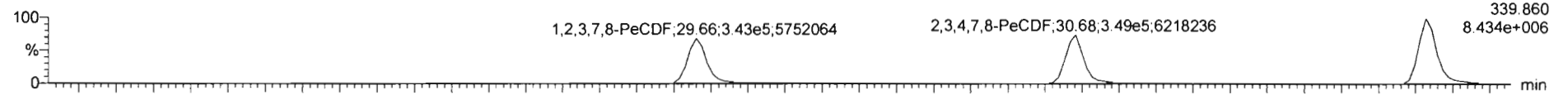
Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time

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

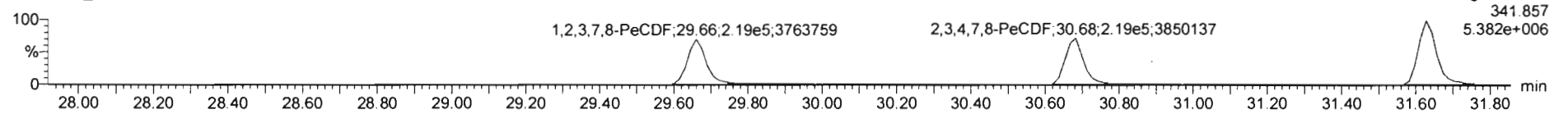
Name: 200307R1_1, Date: 07-Mar-2020, Time: 09:44:00, ID: ST200307R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,7,8-PeCDF

200307R1_1

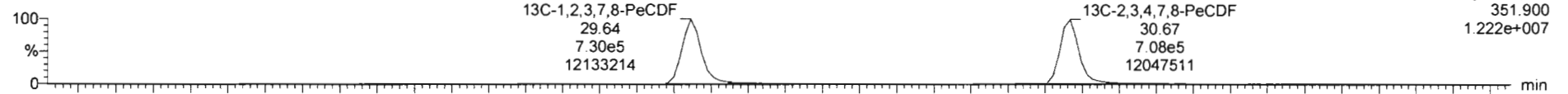


200307R1_1

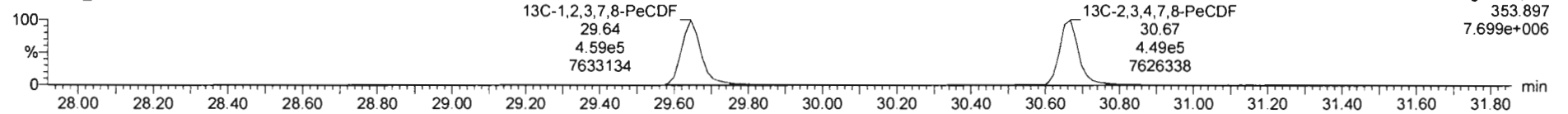


13C-1,2,3,7,8-PeCDF

200307R1_1

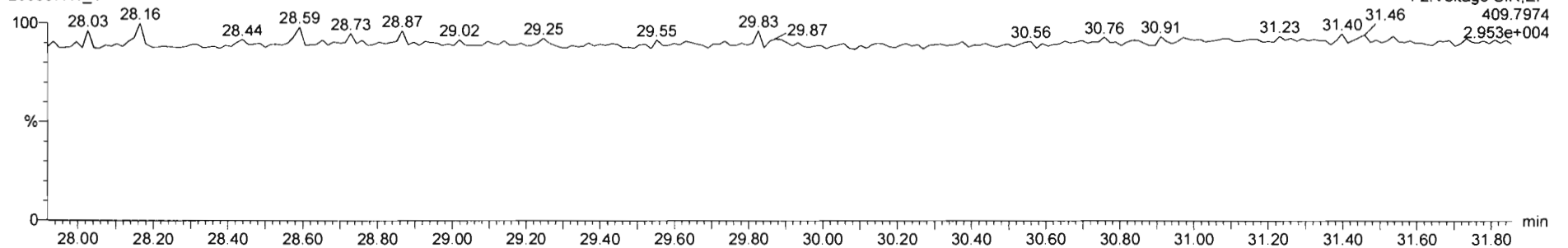


200307R1_1



DPE2

200307R1_1



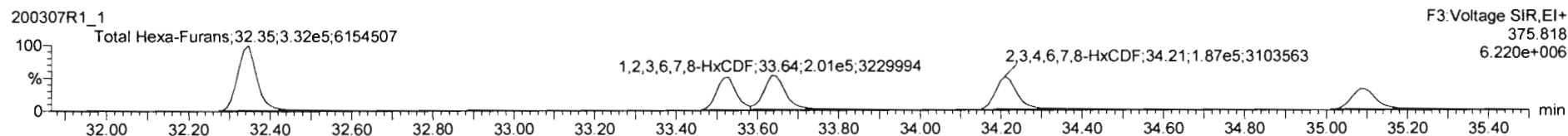
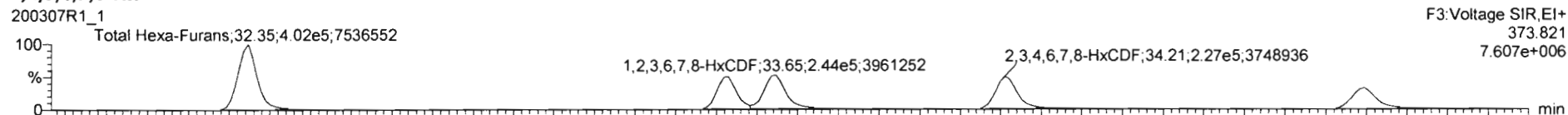
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Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time

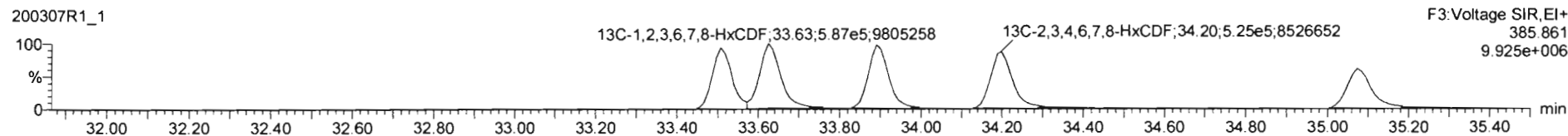
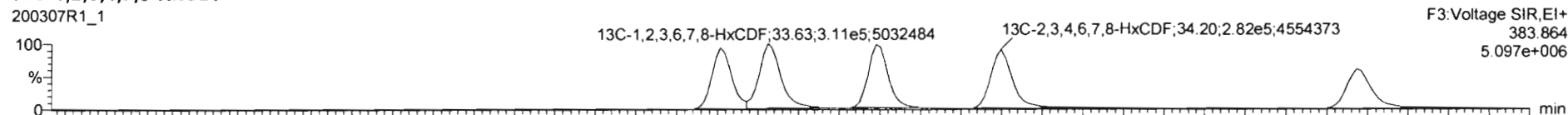
Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

Name: 200307R1_1, Date: 07-Mar-2020, Time: 09:44:00, ID: ST200307R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

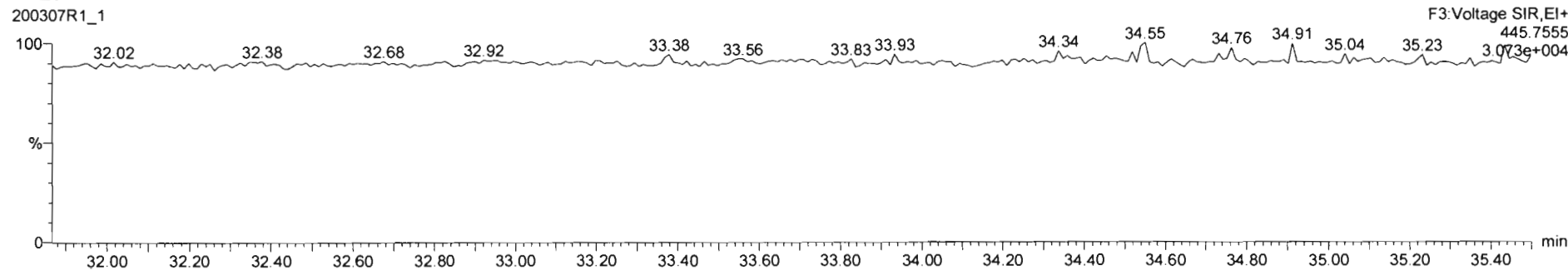
1,2,3,4,7,8-HxCDF



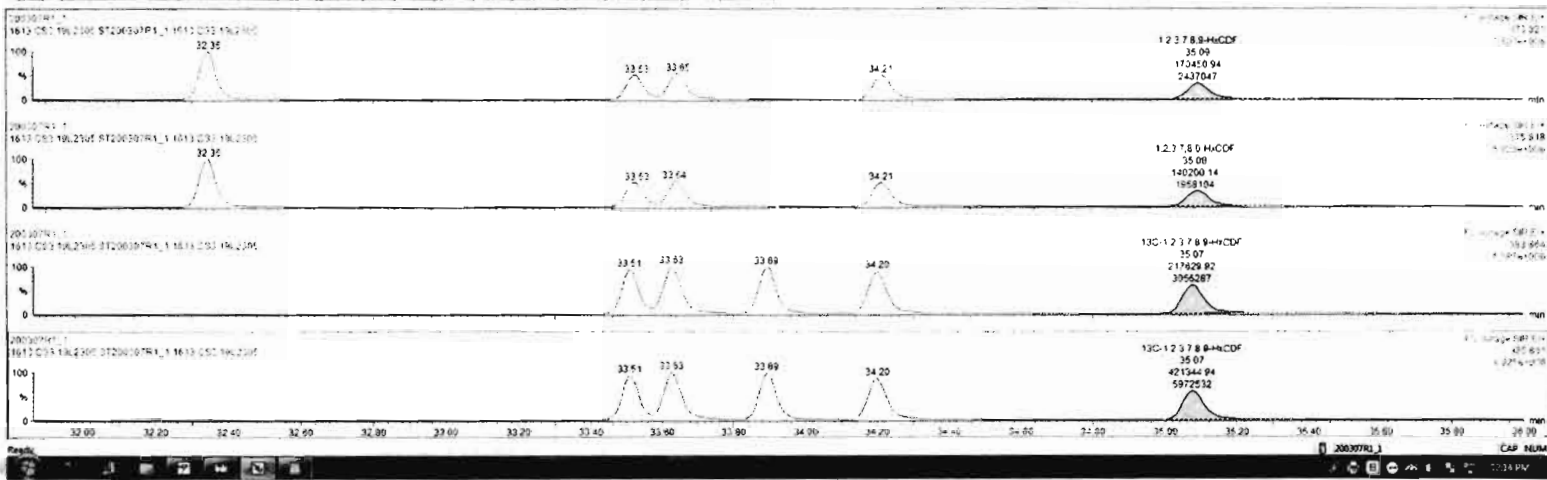
13C-1,2,3,4,7,8-HxCDF



DPE3



#	Name	Comp	IS Comp	Prod SA	RA	Infy	IMP	Prod.MT	RT	RT Flag	Prod.RT	RTT	Conc.	MSAc	STD dev
1	1,2,3,7,8-TCDD	1.11e5	1.15e6	0.77	0.78	NO	3.8835	25.91	25.91	NO	1.001	1.001	5.88	96.8	NO
2	1,2,3,7,8-PeCDD	3.45e5	7.62e6	0.63	0.63	NO	3.8212	30.99	31.00	NO	1.001	1.001	49.2	98.3	NO
3	1,2,3,4,7,8-HxCDD	2.87e5	5.08e6	1.24	1.31	NO	1.1725	34.37	34.38	NO	1.000	1.001	48.8	99.8	NO
4	1,2,3,6,7,8-HxCDD	2.24e5	6.78e6	1.24	1.26	NO	3.8844	34.47	34.48	NO	1.000	1.000	48.5	97.0	NO
5	1,2,3,7,8,9-HxCDD	2.78e5	5.79e6	1.24	1.26	NO	3.9674	34.74	34.75	NO	1.000	1.001	48.6	96.2	NO
6	1,2,3,4,6,7,8-HxCDD	2.75e5	4.48e6	1.24	1.30	NO	1.0691	36.71	36.75	NO	1.000	1.000	47.7	95.1	NO
7	OCDD	4.19e5	8.39e6	0.99	0.94	NO	1.0513	41.22	41.23	NO	1.000	1.000	95.1	95.1	NO
8	2,3,7,8-TCDF	1.48e5	3.02e6	0.72	0.76	NO	3.9154	24.83	24.84	NO	1.001	1.001	9.72	97.2	NO
9	1,2,3,7,8-PeCDF	5.62e5	1.19e6	1.55	1.58	NO	2.9594	29.67	29.66	NO	1.001	1.001	49.2	98.4	NO
10	1,2,3,4,7,8-HxCDF	5.68e5	1.16e6	1.55	1.58	NO	1.0035	30.75	30.68	NO	1.001	1.000	49.0	97.9	NO
11	1,2,3,4,7,8-HxCDF	3.62e5	7.71e5	1.24	1.20	NO	1.0381	33.51	33.53	NO	1.000	1.001	47.7	95.5	NO
12	1,2,3,6,7,8-HxCDF	4.45e5	6.97e6	1.24	1.22	NO	1.0128	33.64	33.65	NO	1.000	1.001	49.0	97.9	NO
13	1,2,3,6,7,8-HxCDF	4.14e5	6.07e6	1.24	1.22	NO	1.0920	34.23	34.21	NO	1.001	1.000	47.0	93.9	NO
14	1,2,3,7,8,9-HxCDF	3.19e5	6.30e6	1.24	1.22	NO	1.8008	35.07	35.06	NO	1.000	1.001	47.3	94.7	NO
15	1,2,3,4,6,7,8-HxCDF	2.95e5	6.03e6	1.24	1.21	NO	1.2403	38.81	38.80	NO	1.001	1.001	46.6	93.2	NO
16	1,2,3,4,7,8-HxCDF	2.24e5	3.96e6	1.24	1.20	NO	1.2099	38.82	38.83	NO	1.000	1.000	46.6	93.1	NO
17	OCDF	4.77e5	1.06e6	0.89	0.89	NO	3.8468	41.40	41.41	NO	1.000	1.000	95.1	95.1	NO
18	1,3C-1,2,3,7,8-TCDD	1.15e6	9.97e6	0.77	0.81	NO	1.1842	25.80	25.78	NO	1.028	1.030	97.1	97.1	NO
19	1,3C-1,2,3,7,8-PeCDD	7.62e5	9.97e6	0.63	0.85	NO	3.8644	30.99	30.97	NO	1.226	1.235	98.5	98.5	NO
20	1,3C-1,2,3,4,7,8-HxCDD	5.08e5	8.18e6	1.24	1.27	NO	2.7538	34.36	34.36	NO	1.214	1.014	88.4	88.4	YES
21	1,3C-1,2,3,6,7,8-HxCDD	6.78e5	8.18e6	1.24	1.27	NO	3.9254	34.47	34.47	NO	1.017	1.017	89.7	89.7	NO

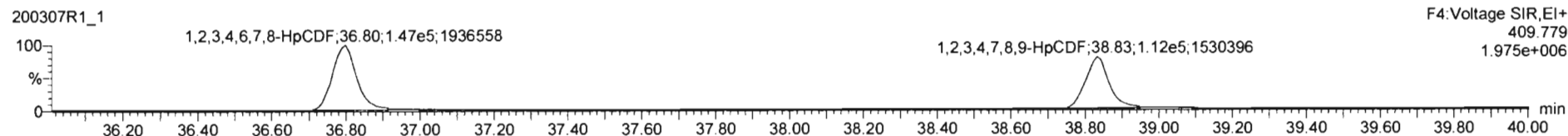
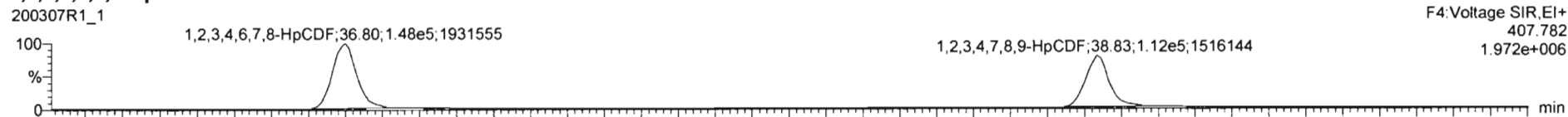


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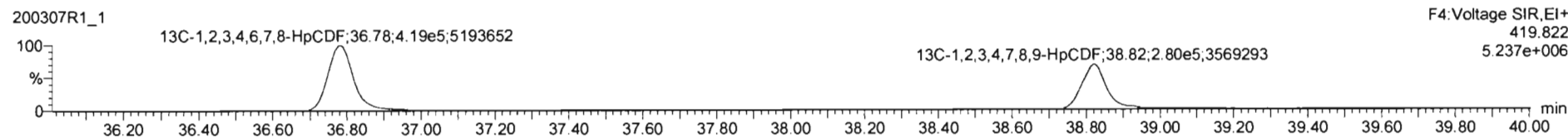
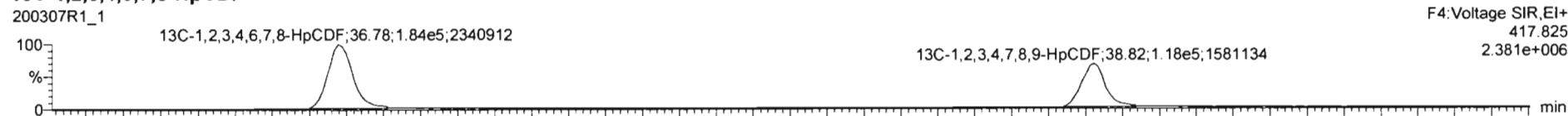
Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time
Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

Name: 200307R1_1, Date: 07-Mar-2020, Time: 09:44:00, ID: ST200307R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

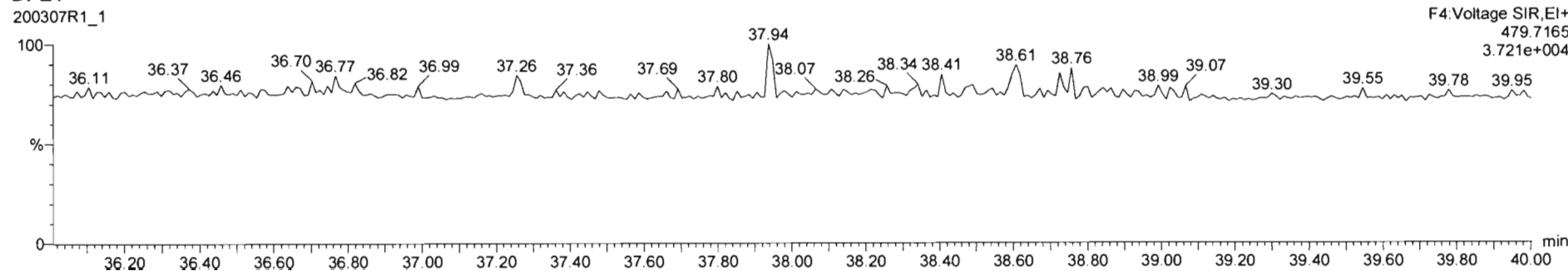
1,2,3,4,6,7,8-HpCDF



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



DPE4



Dataset: Untitled

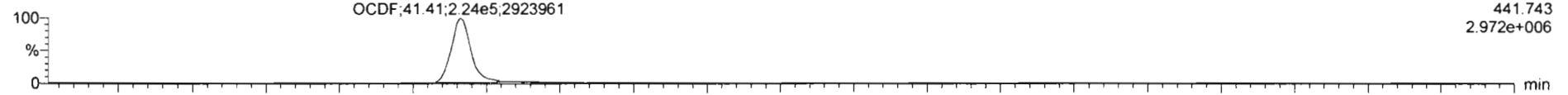
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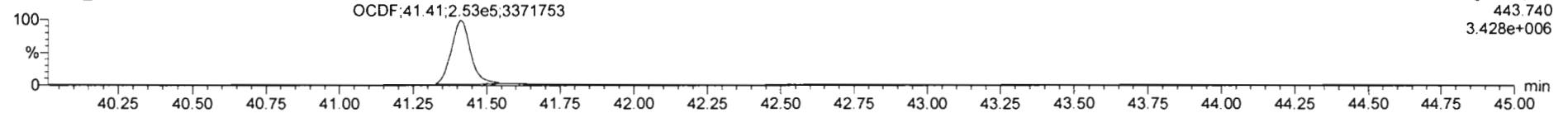
Name: 200307R1_1, Date: 07-Mar-2020, Time: 09:44:00, ID: ST200307R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

OCDF

200307R1_1

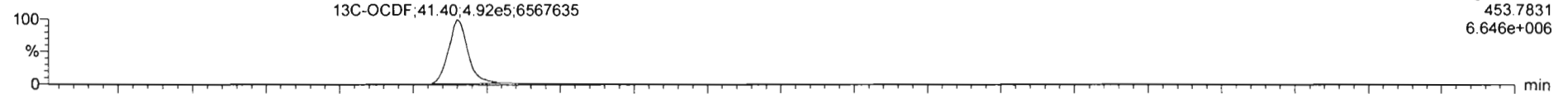


200307R1_1

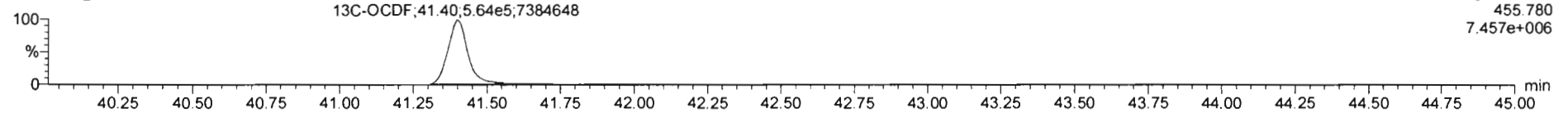


13C-OCDF

200307R1_1

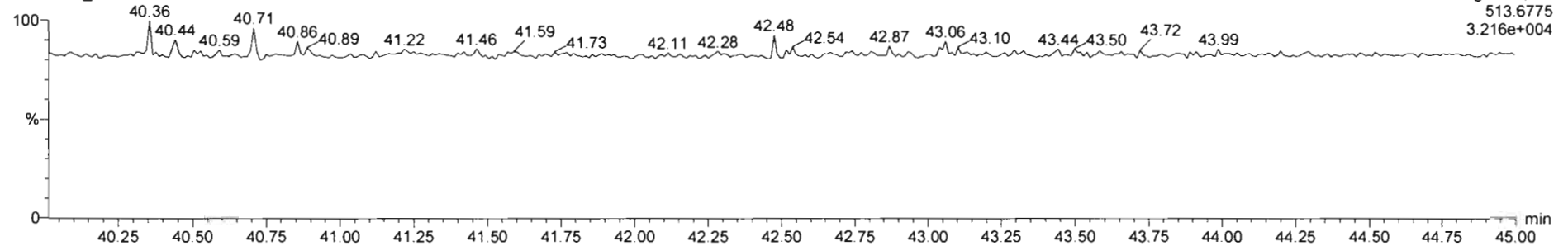


200307R1_1



DPE5

200307R1_1

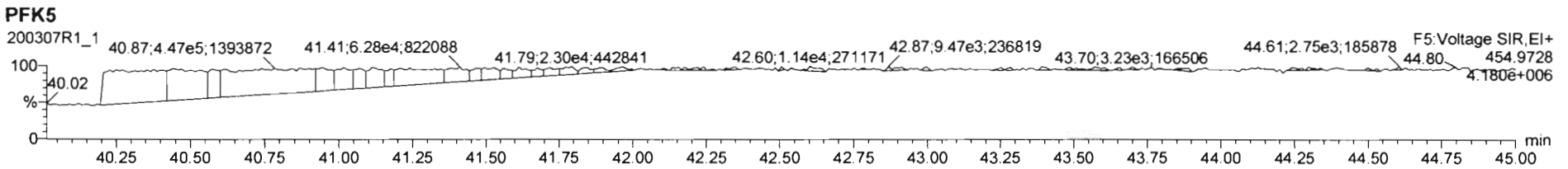
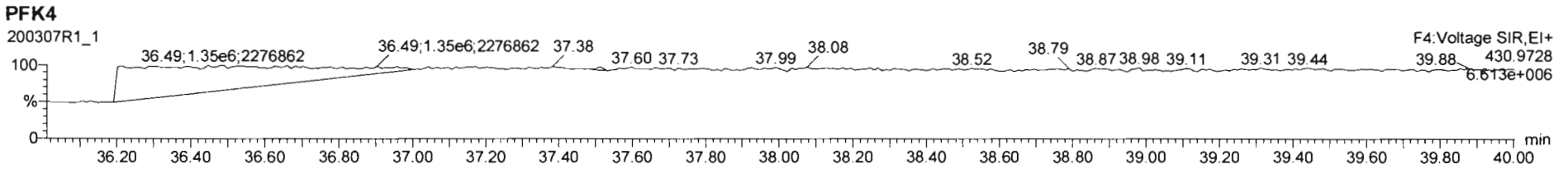
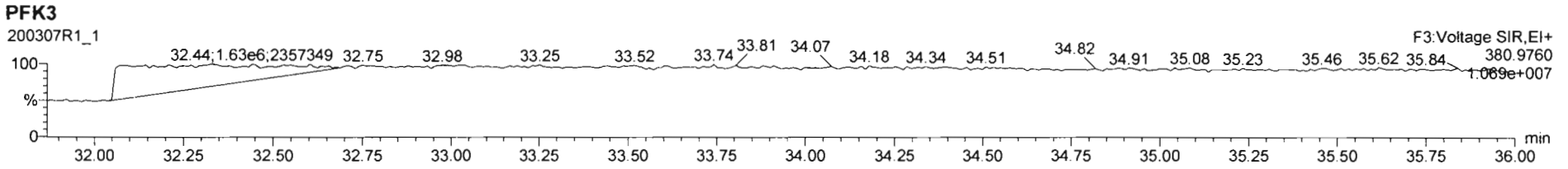
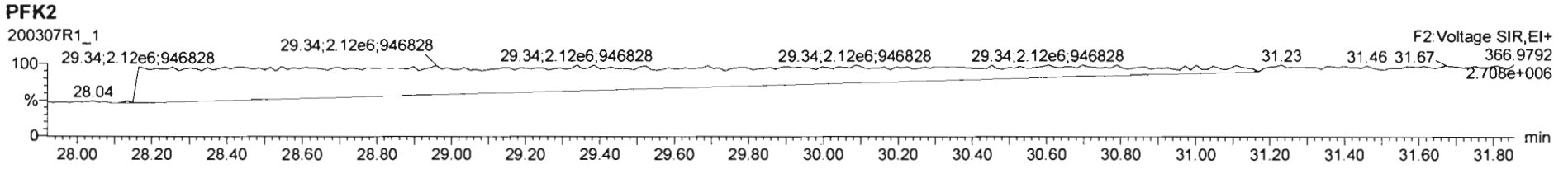
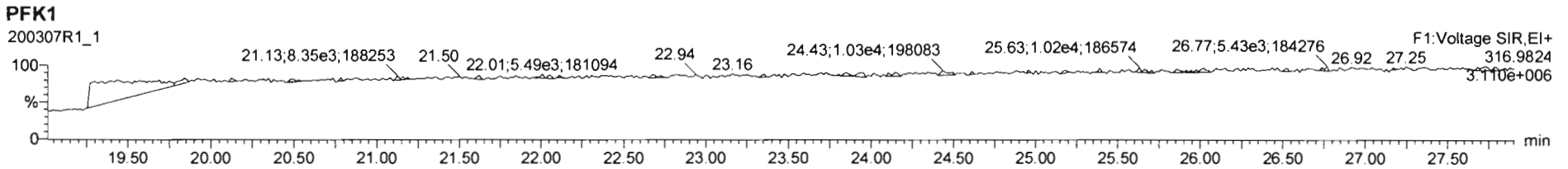


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Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time

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

Name: 200307R1_1, Date: 07-Mar-2020, Time: 09:44:00, ID: ST200307R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



Experiment Calibration Report

MassLynx 4.1 SCN815

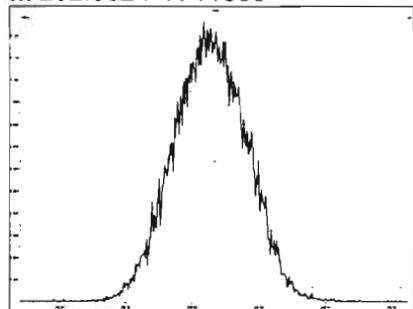
MANUAL RES CHECK

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

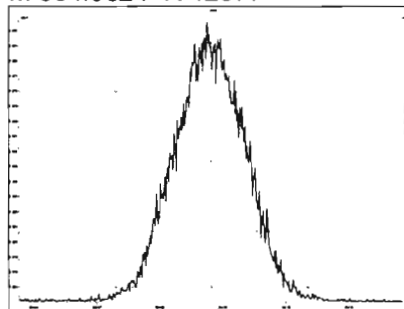
PROCESSED AFTER
FILAMENT WAS REPLACED

Printed: Monday, March 09, 2020 09:53:22 Pacific Daylight Time

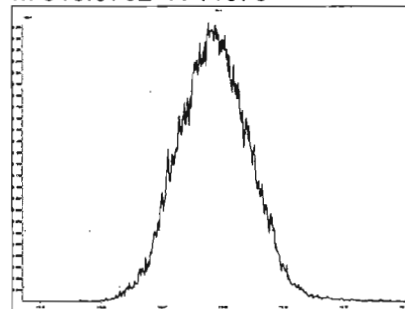
M 292.9824 R 11366



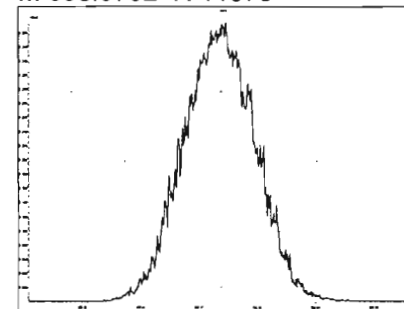
M 304.9824 R 12077



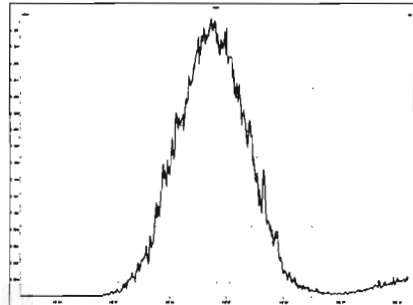
M 318.9792 R 11578



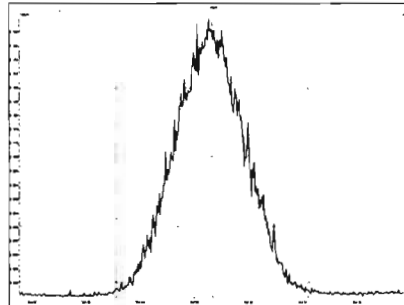
M 330.9792 R 11576



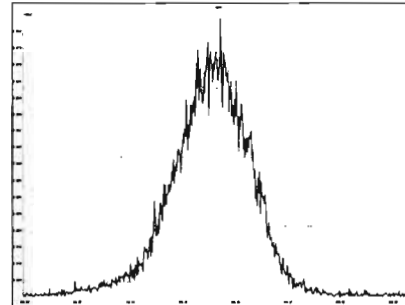
M 342.9792 R 11574



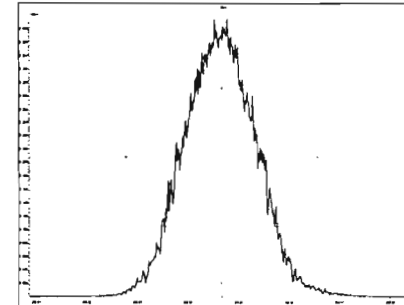
M 354.9792 R 12078



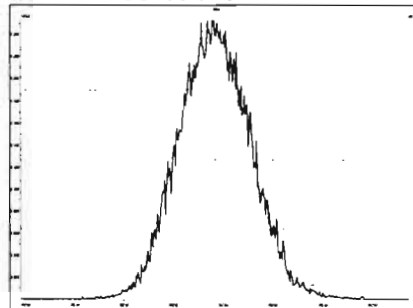
M 366.9792 R 10639



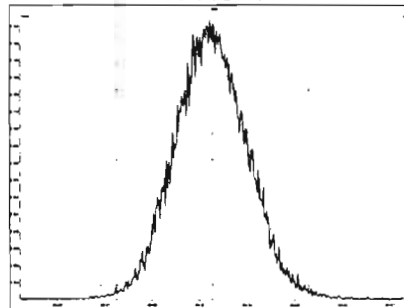
M 380.9760 R 11415



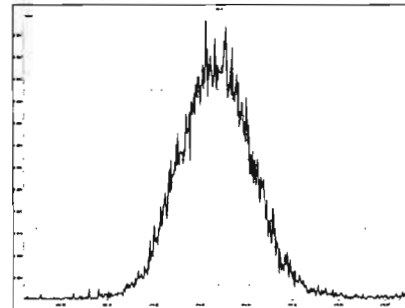
M 392.9760 R 11902



M 404.9760 R 11624



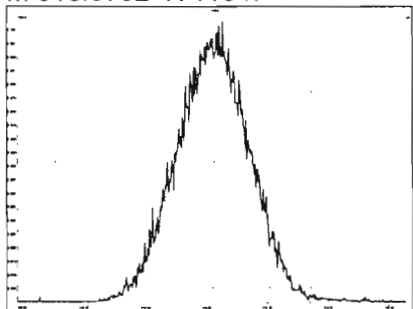
M 416.9760 R 10641



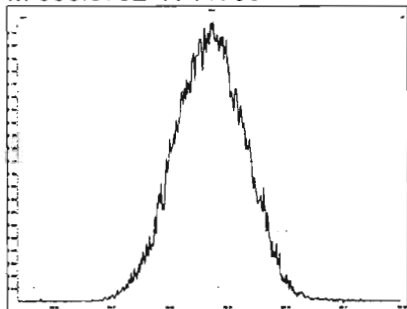
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Printed: Monday, March 09, 2020 09:54:37 Pacific Daylight Time

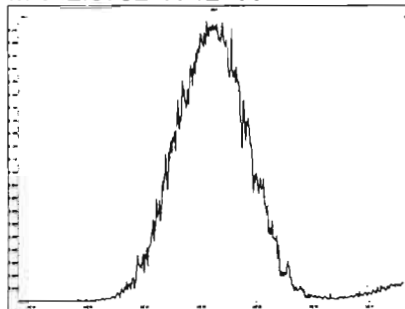
M 318.9792 R 11847



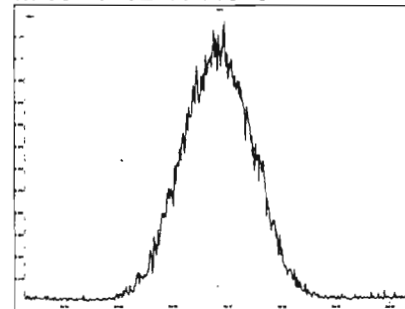
M 330.9792 R 11795



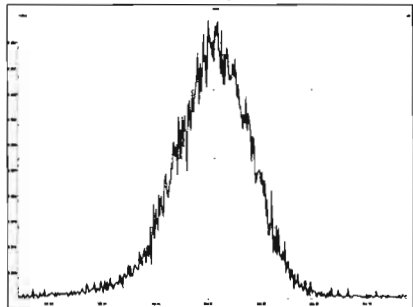
M 342.9792 R 12136



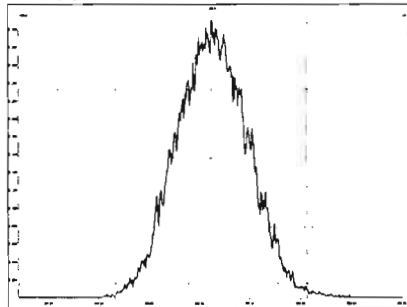
M 354.9792 R 11575



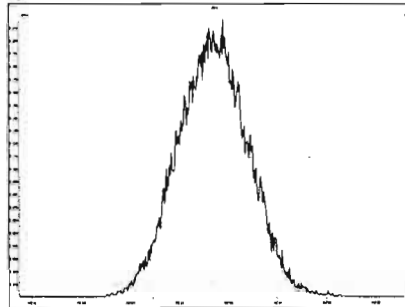
M 366.9792 R 11365



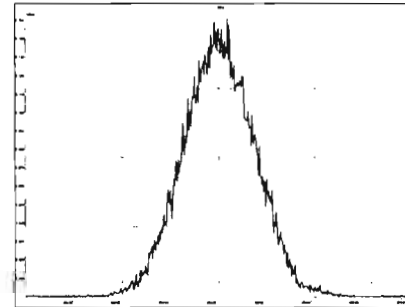
M 380.9760 R 11904



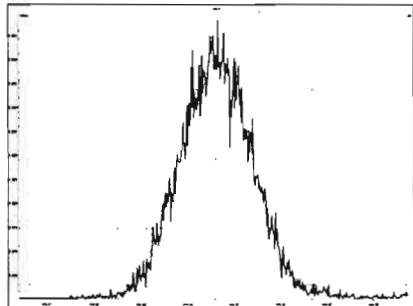
M 392.9760 R 12193



M 404.9760 R 12078



M 416.9760 R 11736



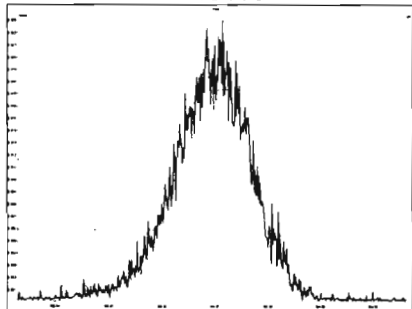
Experiment Calibration Report

MassLynx 4.1 SCN815

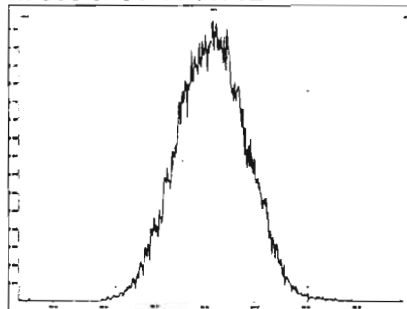
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Printed: Monday, March 09, 2020 09:55:38 Pacific Daylight Time

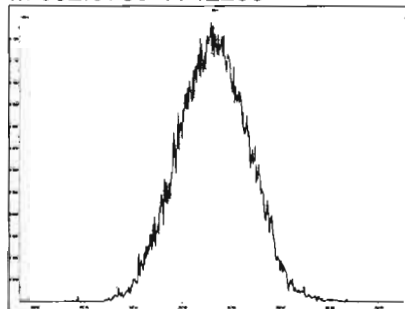
M 366.9792 R 10159



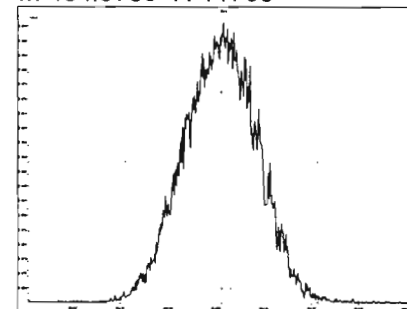
M 380.9760 R 11792



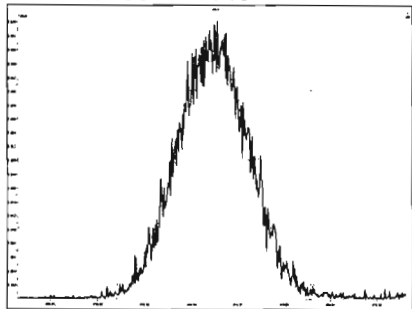
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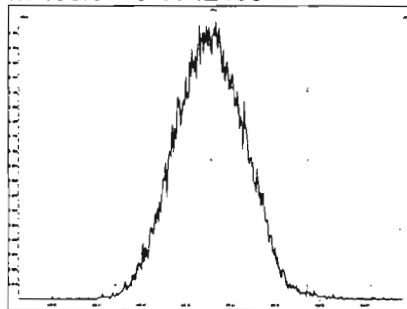
M 404.9760 R 11738



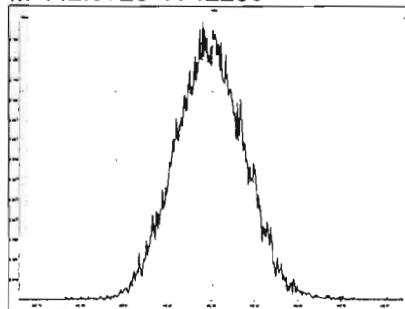
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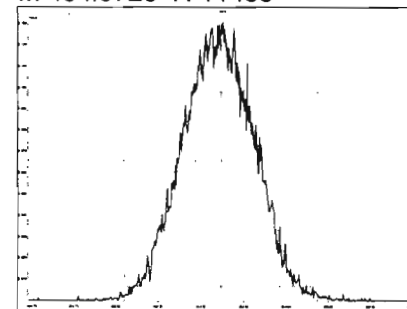
M 430.9728 R 12138



M 442.9728 R 12255



M 454.9728 R 11466



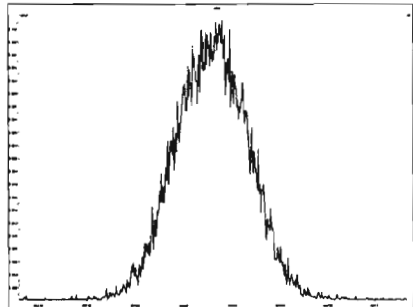
Experiment Calibration Report

MassLynx 4.1 SCN815

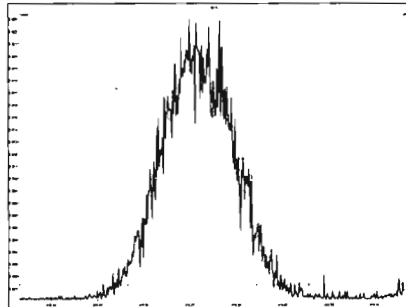
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Printed: Monday, March 09, 2020 09:56:15 Pacific Daylight Time

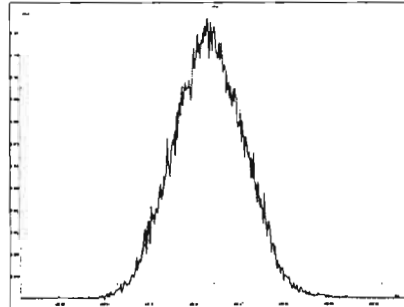
M 404.9760 R 11212



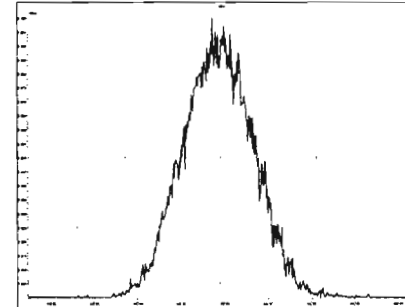
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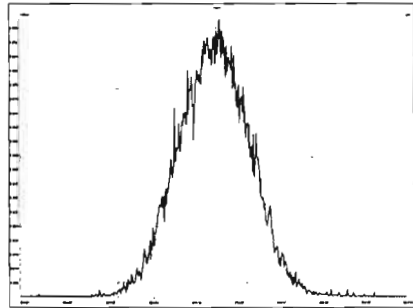
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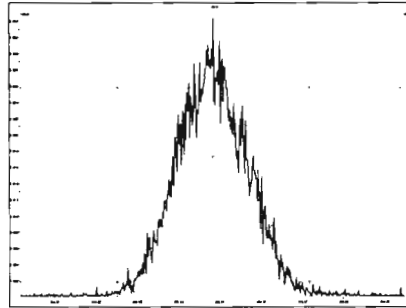
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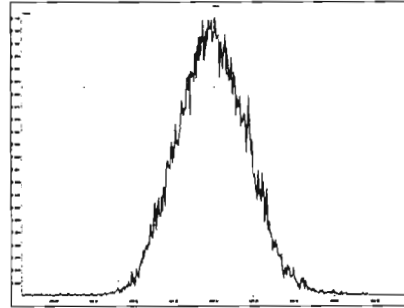
M 454.9728 R 11792



M 466.9728 R 12075



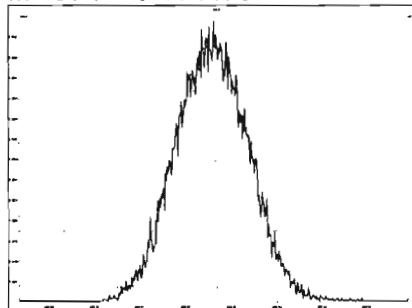
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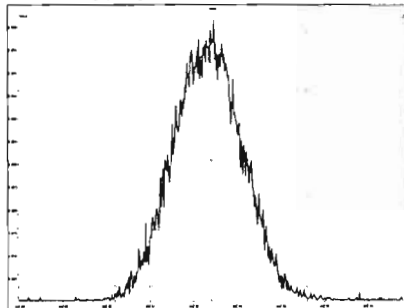
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Printed: Monday, March 09, 2020 09:56:53 Pacific Daylight Time

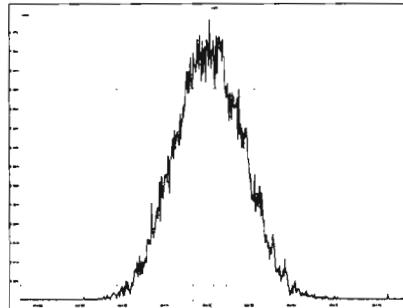
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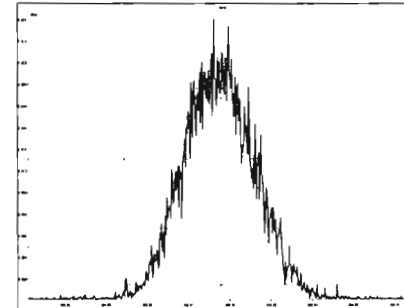
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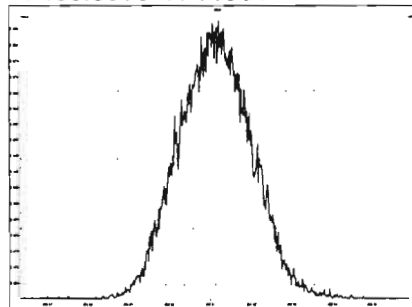
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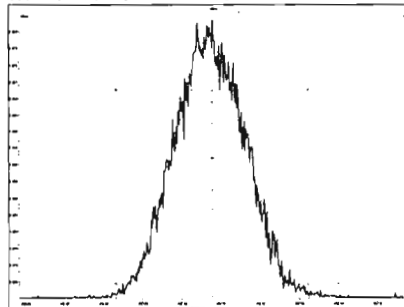
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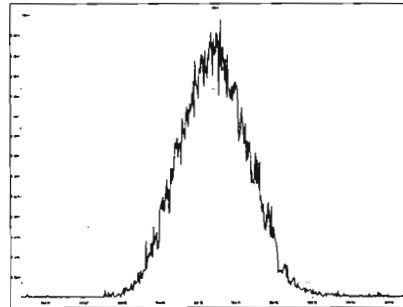
M 480.9696 R 11681



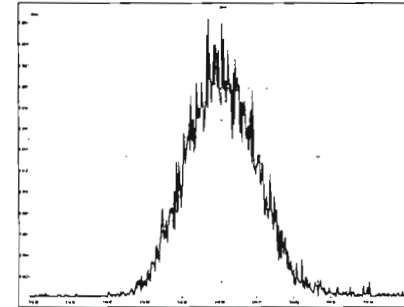
M 492.9696 R 12373



M 504.9696 R 12254



M 516.9697 R 11846



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

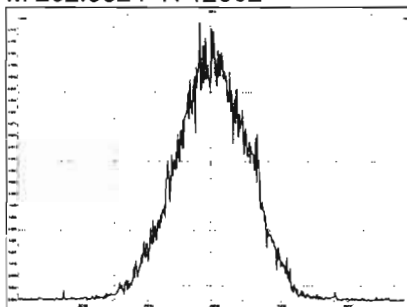
	Name	ID	Acq.Date	Acq.Time
1	200315R2_1	SOLVENT BLANK	16-Mar-20	00:01:01
2	200315R2_2	ST200315R2_1 1613 CS3 19L2305	16-Mar-20	00:47:18
3	200315R2_3	SOLVENT BLANK	16-Mar-20	01:34:51
4	200315R2_4	2000144-09 PDI-081SC-A-08-09-191002 14.98	16-Mar-20	02:22:25
5	200315R2_5	2000144-10 PDI-081SC-A-09-10-191002 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

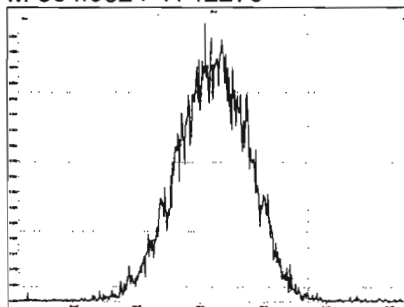
MassLynx 4.1 SCN815

Printed: Monday, March 16, 2020 00:00:59 Pacific Daylight Time

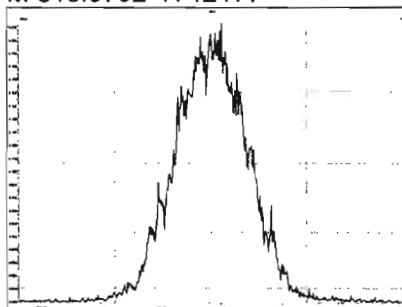
M 292.9824 R 12652



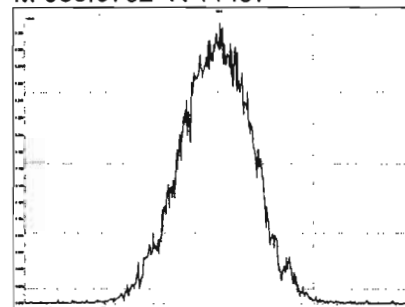
M 304.9824 R 12278



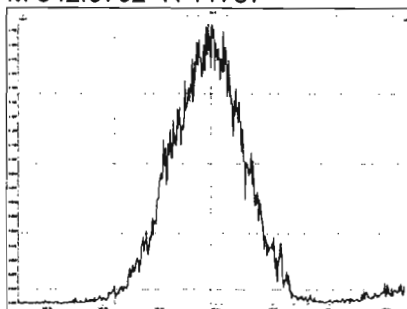
M 318.9792 R 12177



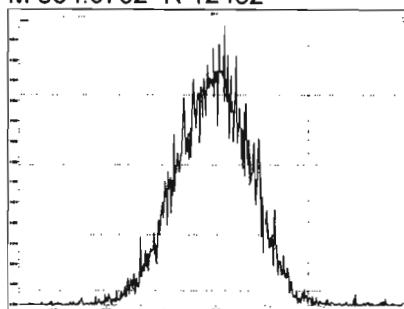
M 330.9792 R 11467



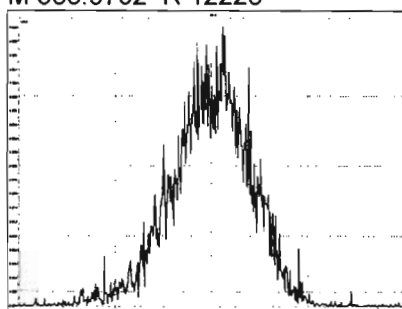
M 342.9792 R 11737



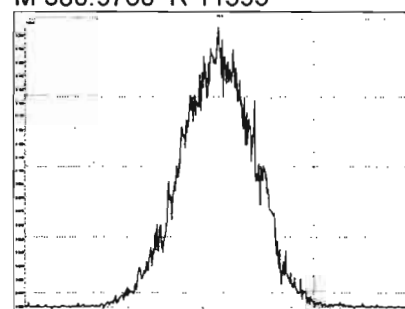
M 354.9792 R 12462



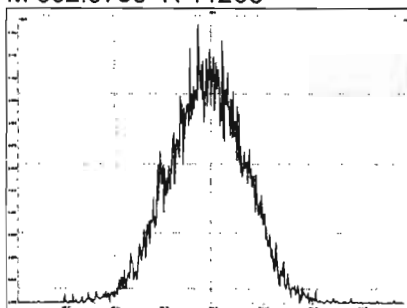
M 366.9792 R 12226



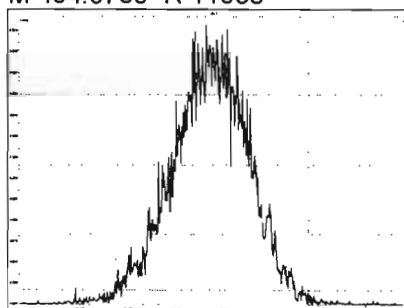
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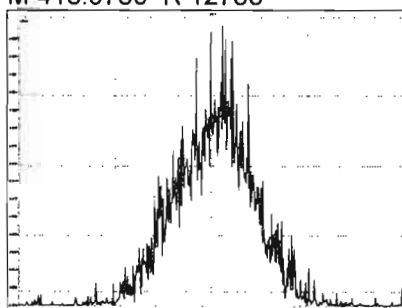
M 392.9760 R 11235



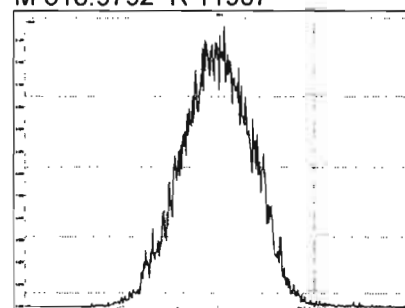
M 404.9760 R 11086



M 416.9760 R 12788

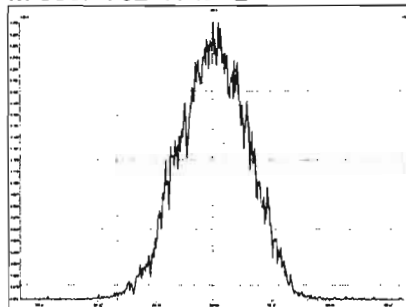


M 318.9792 R 11907

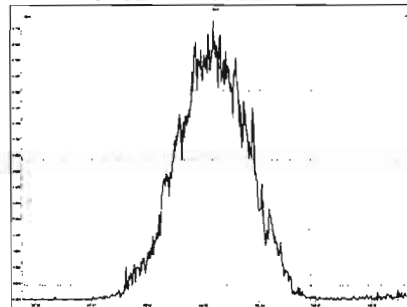


Printed: Monday, March 16, 2020 00:00:59 Pacific Daylight Time

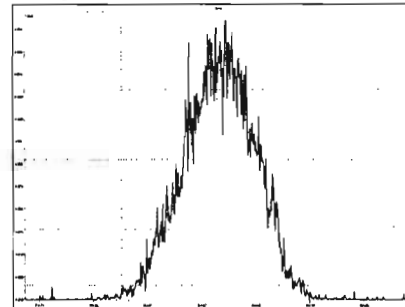
M 330.9792 R 12225



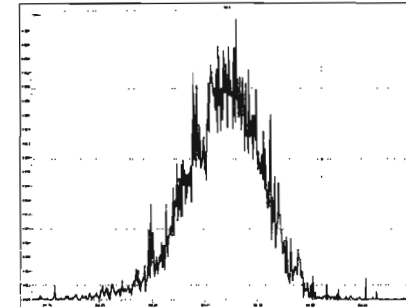
M 342.9792 R 11962



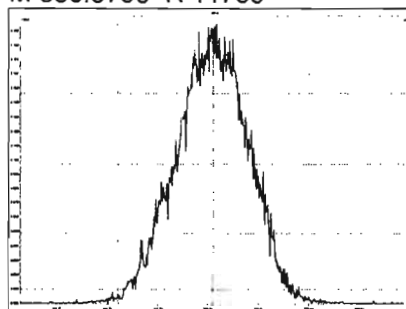
M 354.9792 R 13021



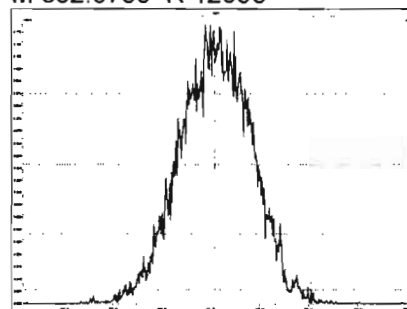
M 366.9792 R 12136



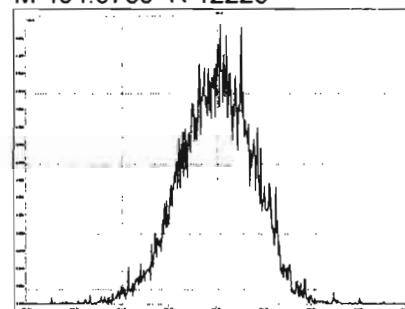
M 380.9760 R 11765



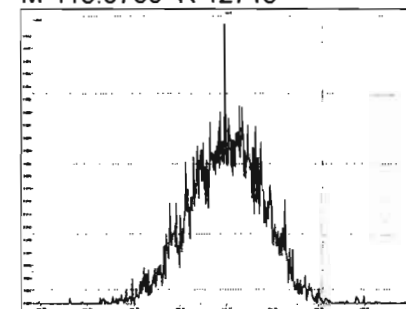
M 392.9760 R 12056



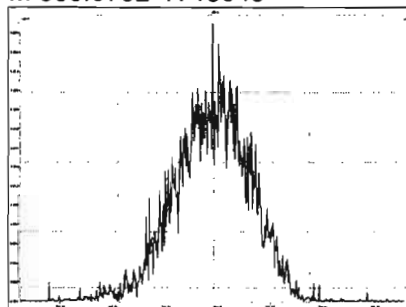
M 404.9760 R 12225



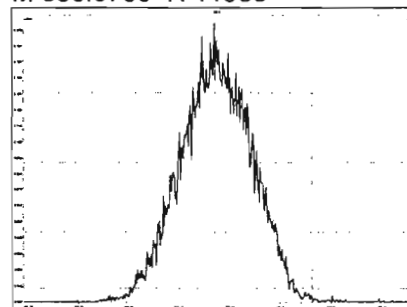
M 416.9760 R 12716



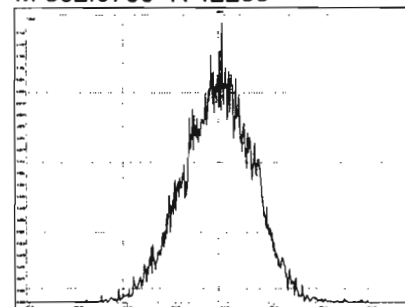
M 366.9792 R 13049



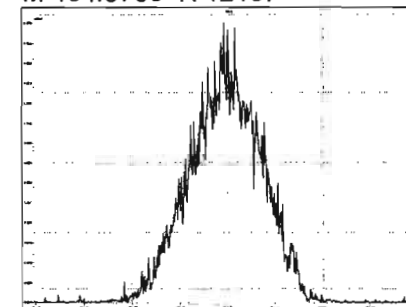
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M 392.9760 R 12233

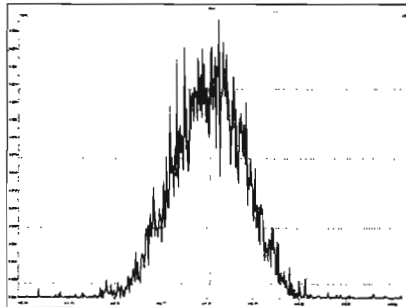


M 404.9760 R 12107

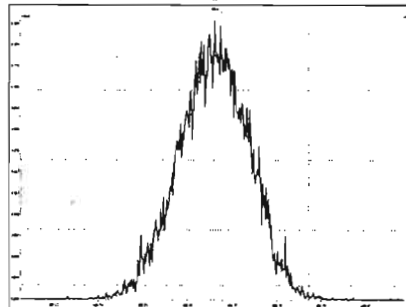


Printed: Monday, March 16, 2020 00:00:59 Pacific Daylight Time

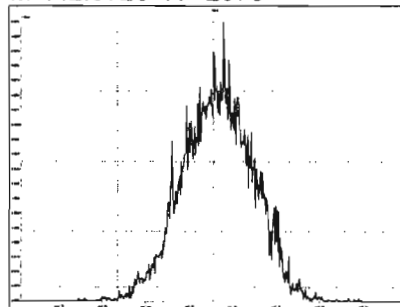
M 416.9760 R 12442



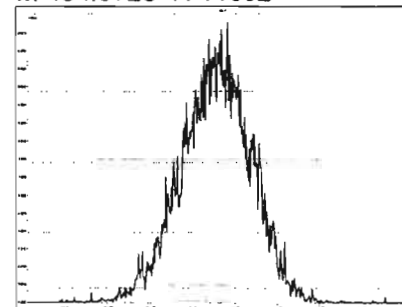
M 430.9728 R 12407



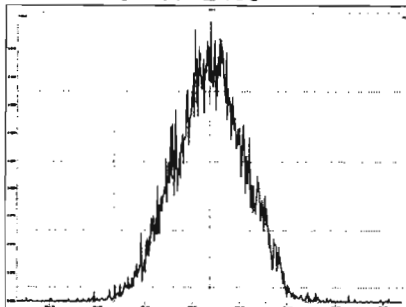
M 442.9728 R 12376



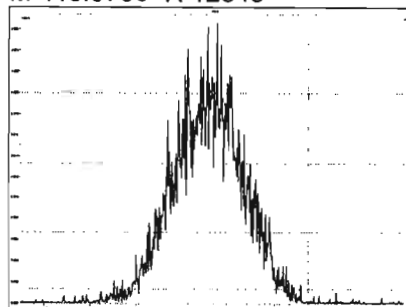
M 454.9728 R 11852



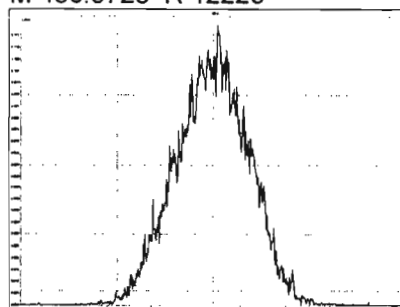
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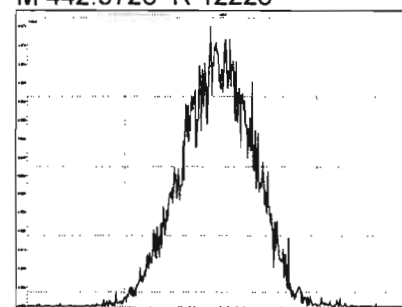
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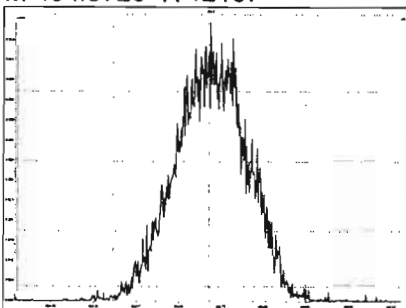
M 430.9728 R 12225



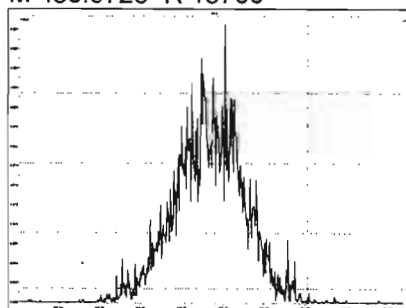
M 442.9728 R 12228



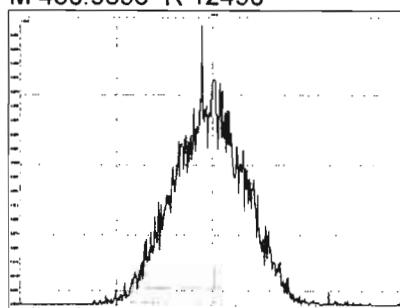
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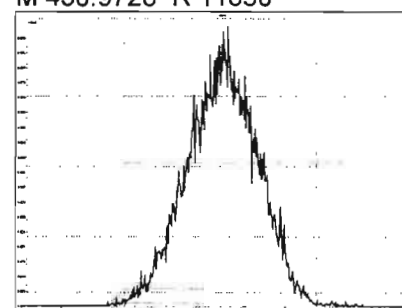
M 466.9728 R 13700



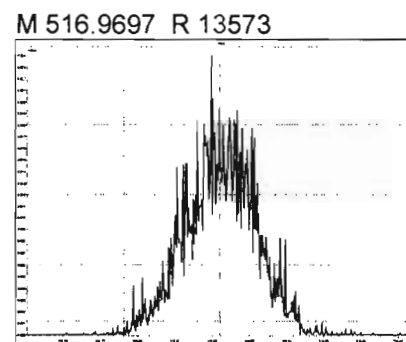
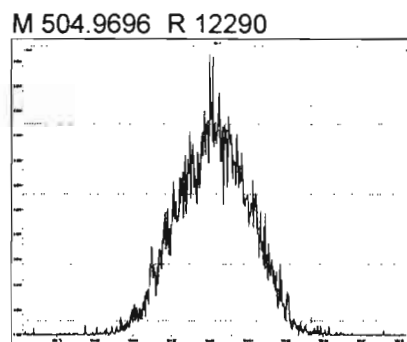
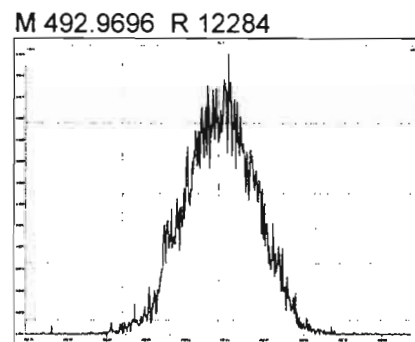
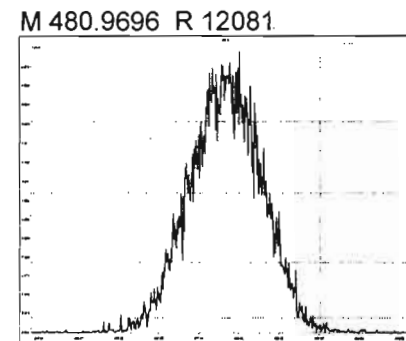
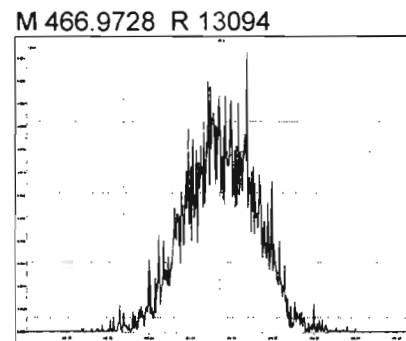
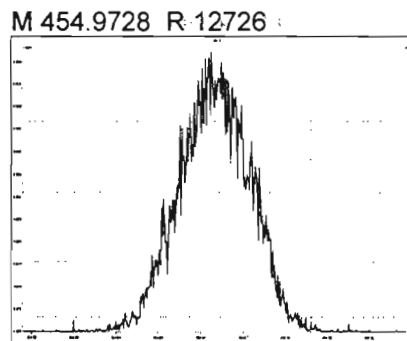
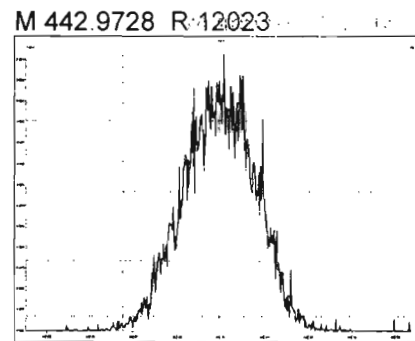
M 480.9696 R 12490



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

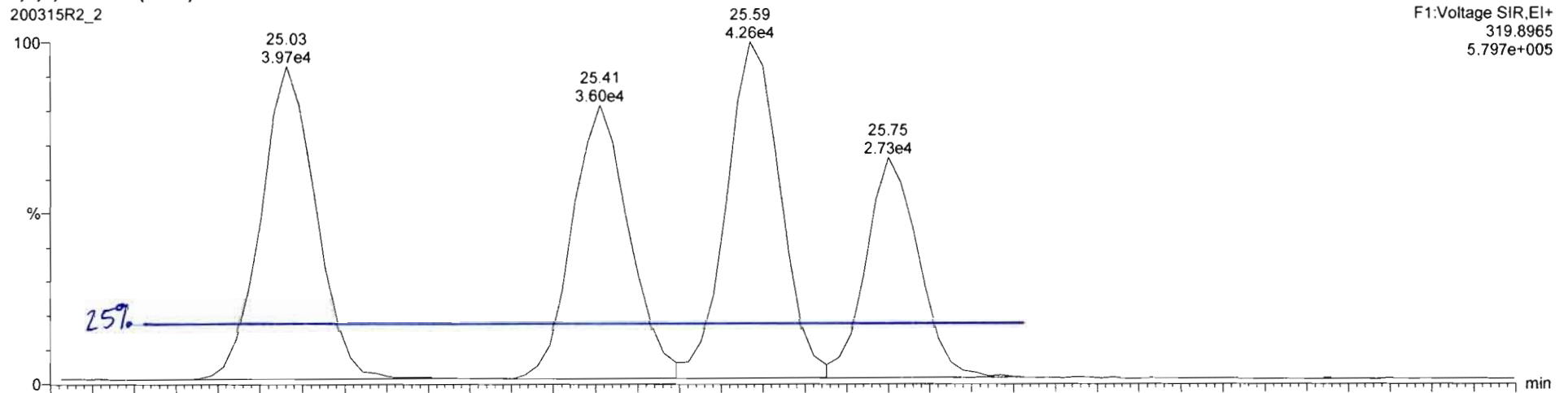
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GRB 03/16/2020

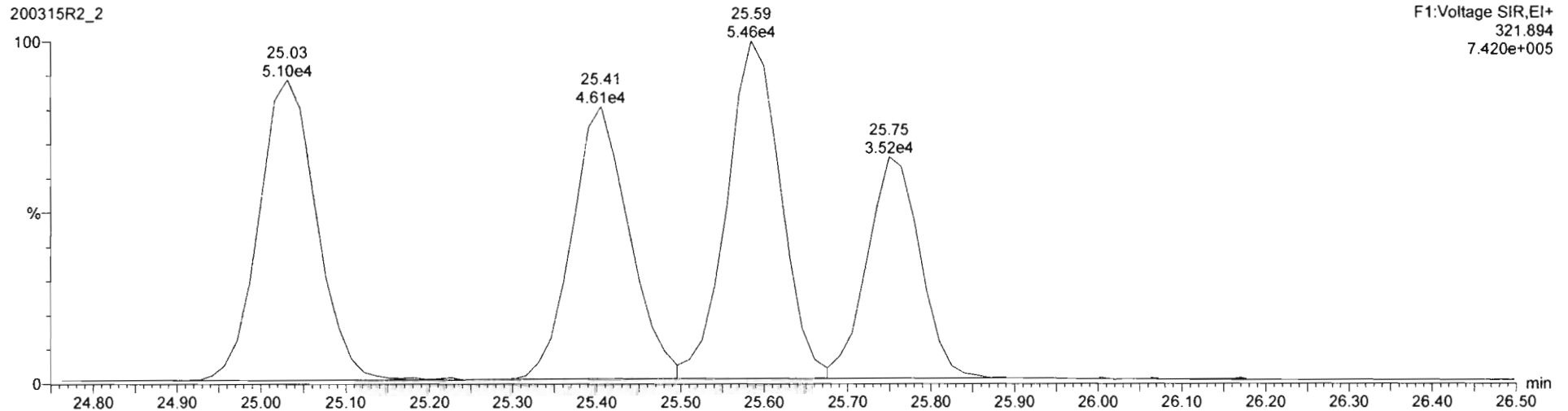
Method: U:\VG12.PRO\MethDB\CPSM.mdb 15 Mar 2020 13:05:01
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

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

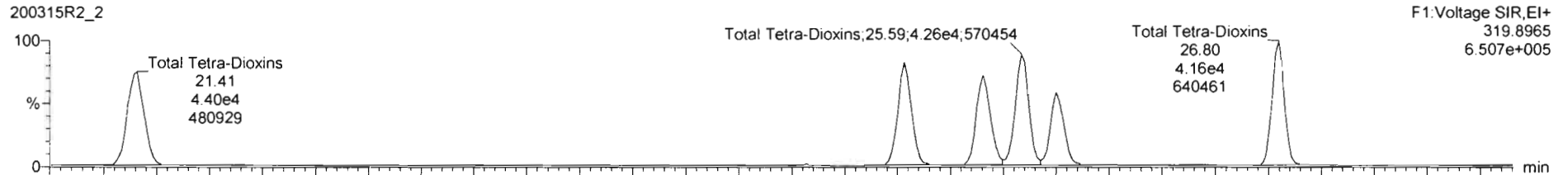
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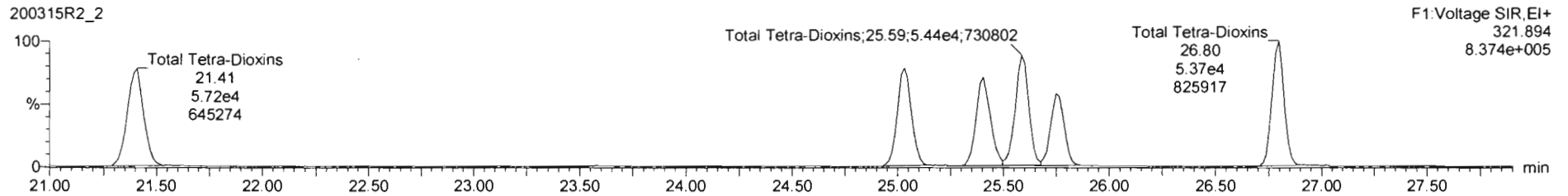
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2,3,7,8-TCDD

200315R2_2

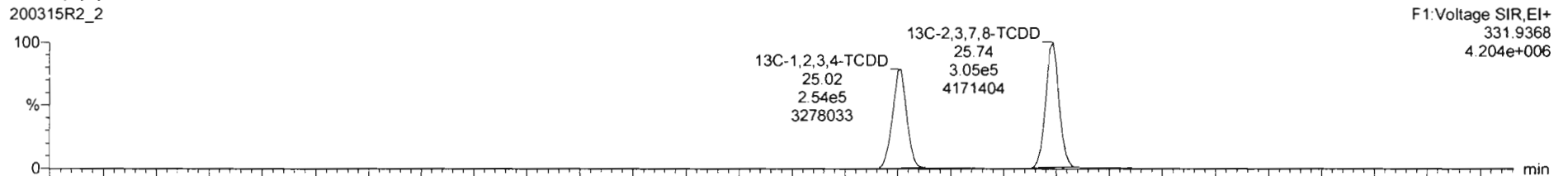


200315R2_2

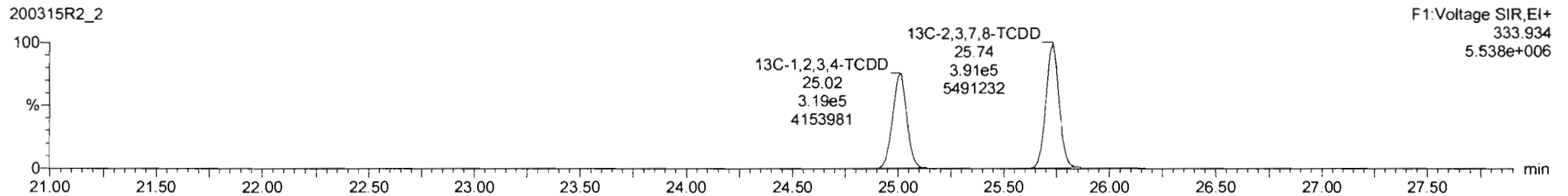


13C-2,3,7,8-TCDD

200315R2_2



200315R2_2



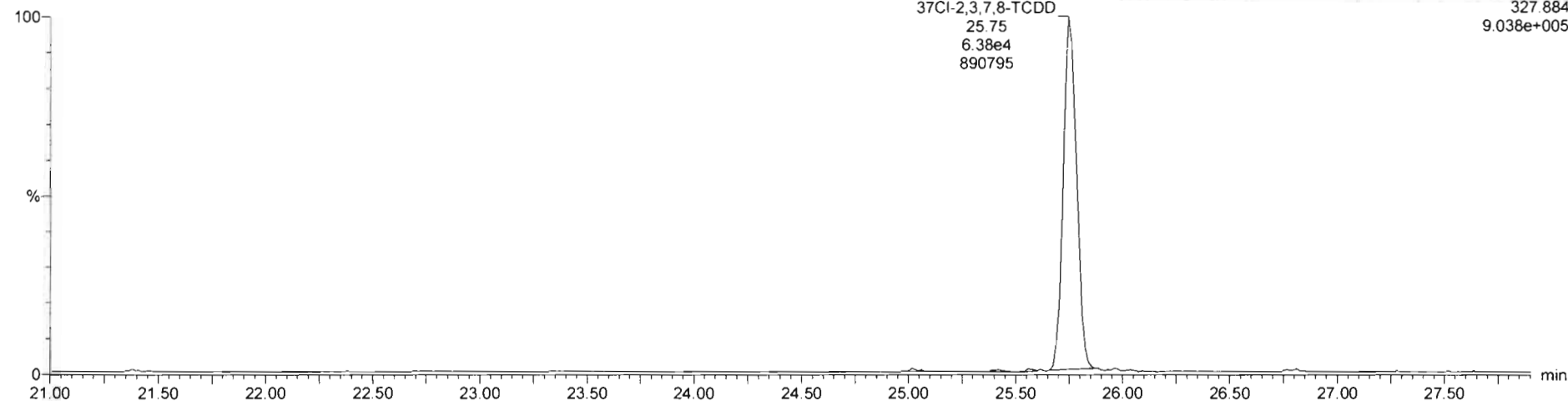
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Last Altered: Monday, March 16, 2020 07:41:17 Pacific Daylight Time
Printed: Monday, March 16, 2020 07:54:46 Pacific Daylight Time

Sample Name: 200315R2_2; Date: 16-Mar-2020; Time: 00:47:18; ID: ST200315R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

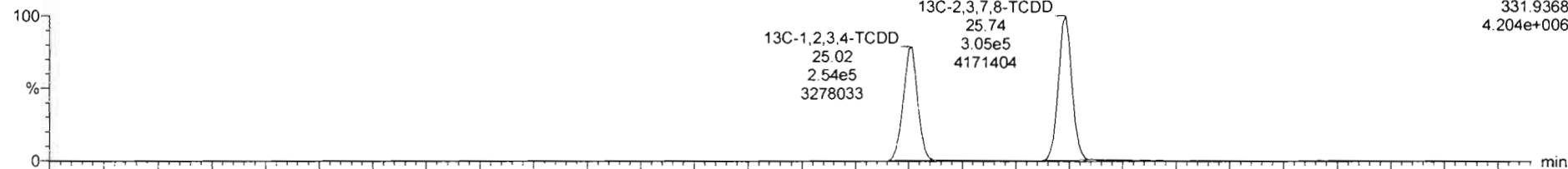
37Cl-2,3,7,8-TCDD

200315R2_2

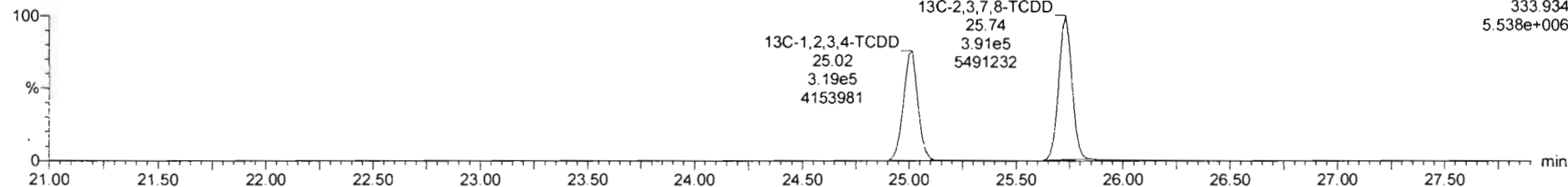


13C-1,2,3,4-TCDD

200315R2_2



200315R2_2



Dataset: Untitled

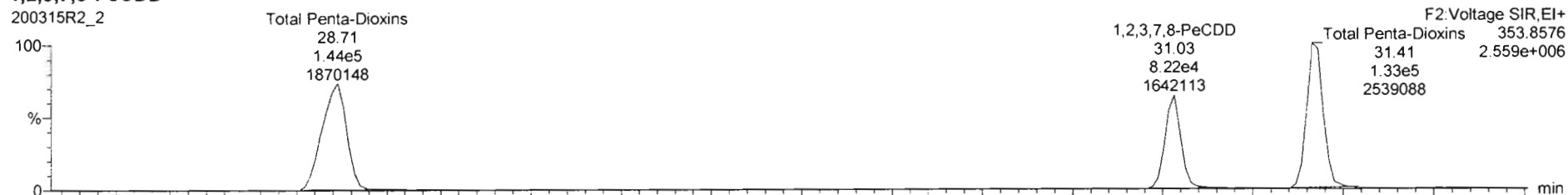
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Printed: Monday, March 16, 2020 07:54:46 Pacific Daylight Time

Last Altered:
Printed:
Mr

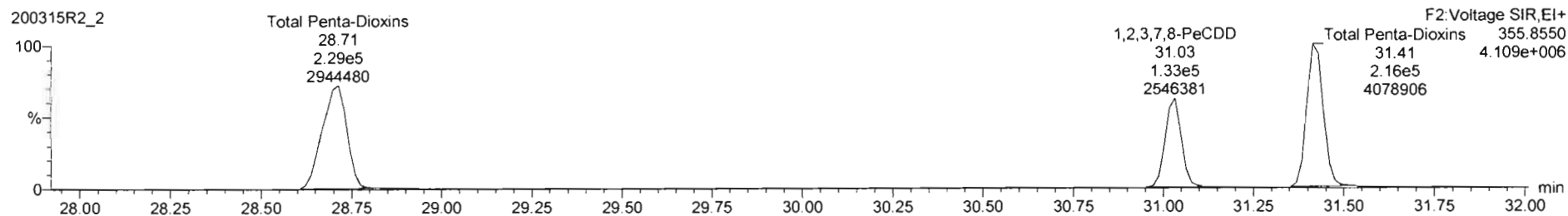
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1,2,3,7,8-PeCDD

200315R2_2

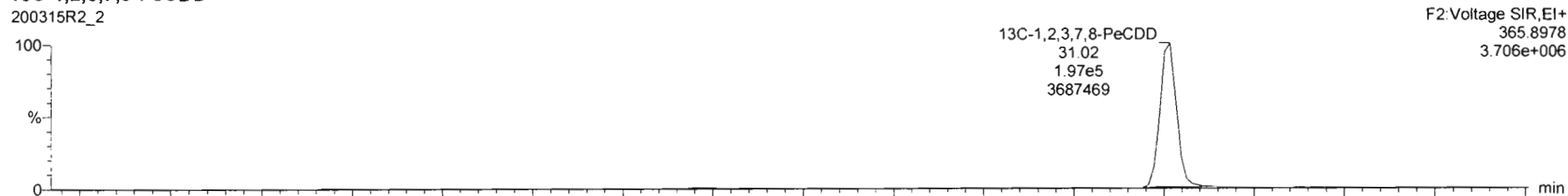


200315R2_2

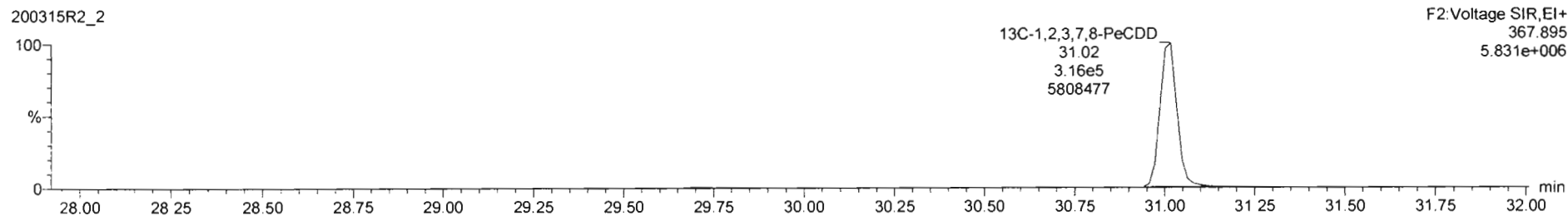


13C-1,2,3,7,8-PeCDD

200315R2_2



200315R2_2



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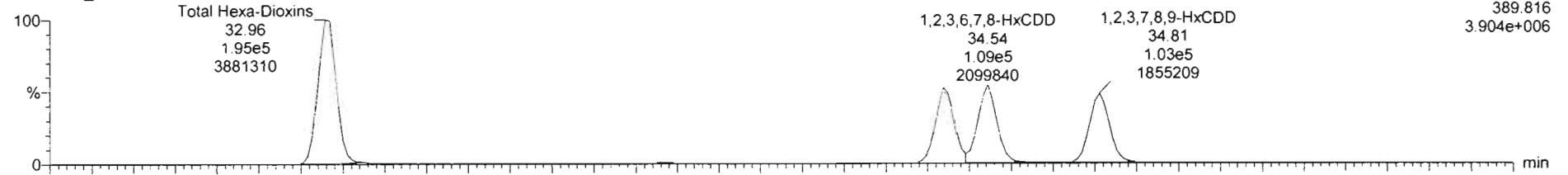
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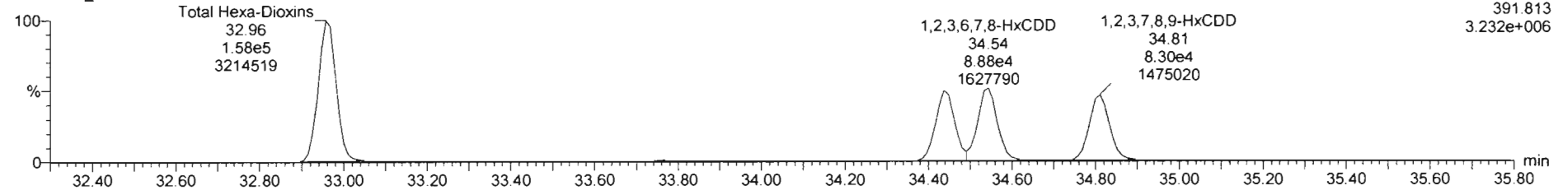
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1,2,3,4,7,8-HxCDD

200315R2_2

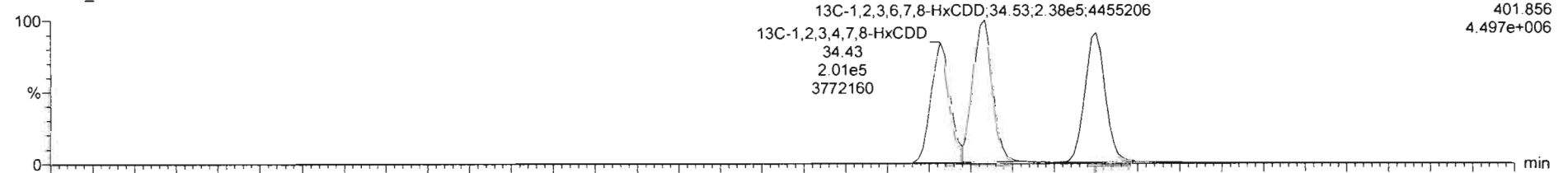


200315R2_2

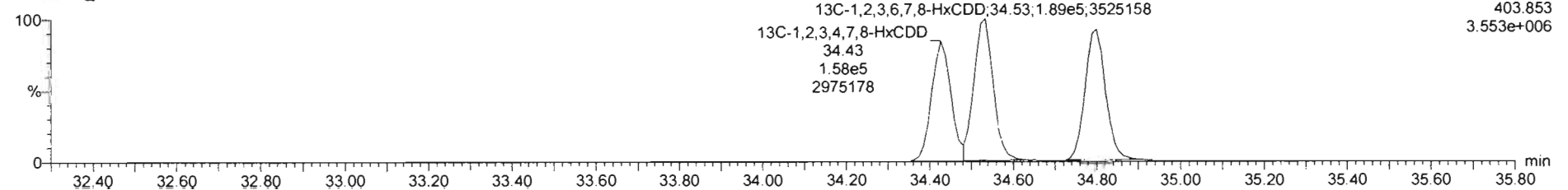


13C-1,2,3,4,7,8-HxCDD

200315R2_2



200315R2_2



Dataset: Untitled

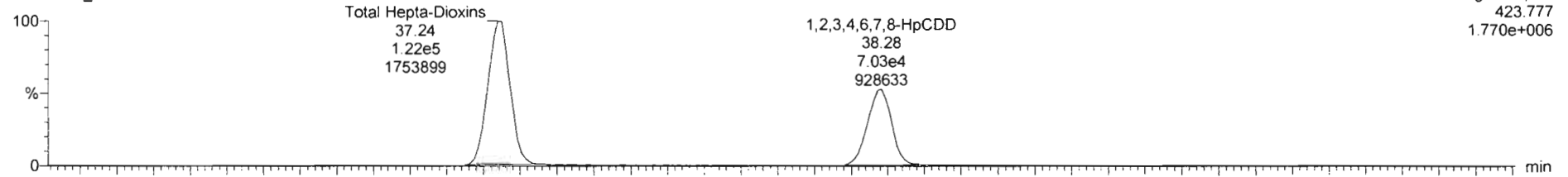
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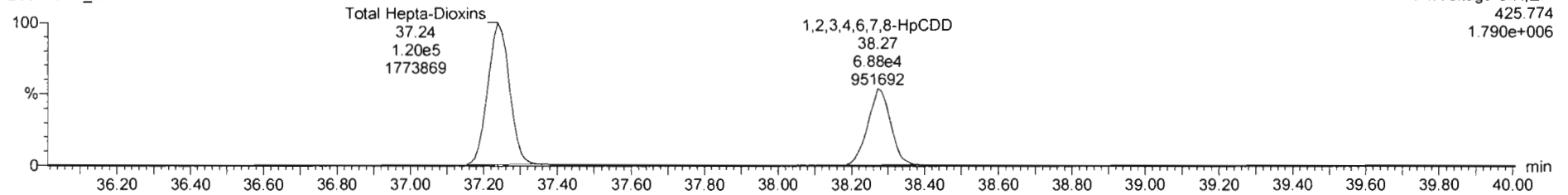
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1,2,3,4,6,7,8-HpCDD

200315R2_2

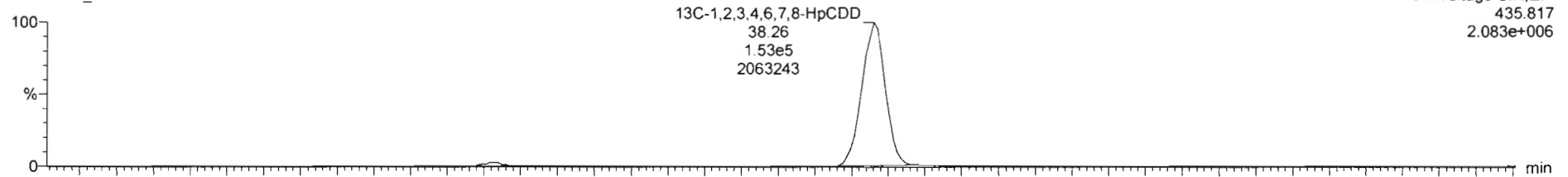


200315R2_2

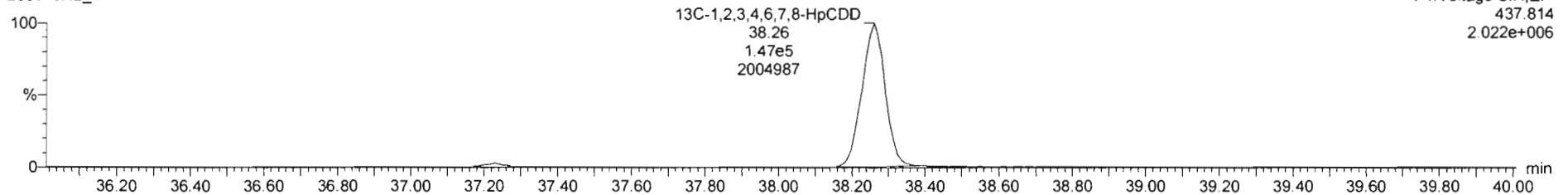


13C-1,2,3,4,6,7,8-HpCDD

200315R2_2



200315R2_2

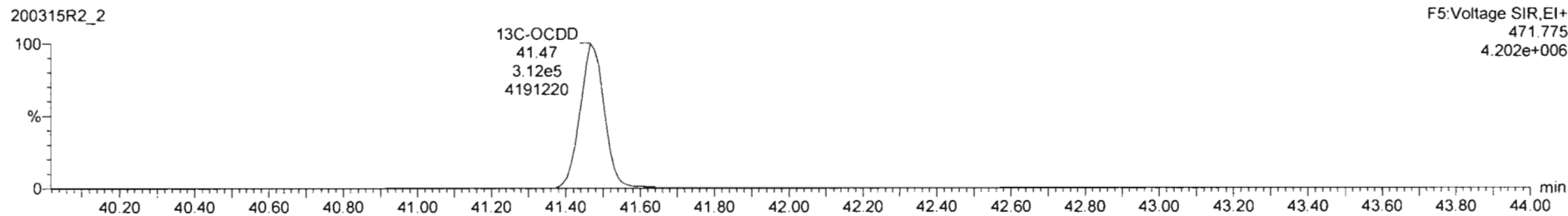
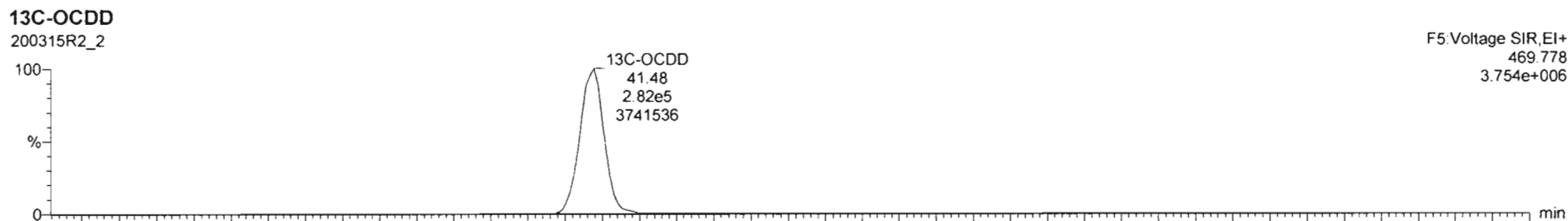
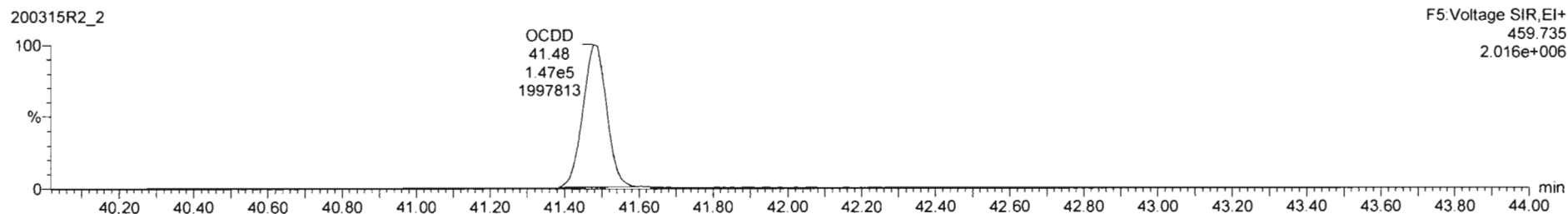
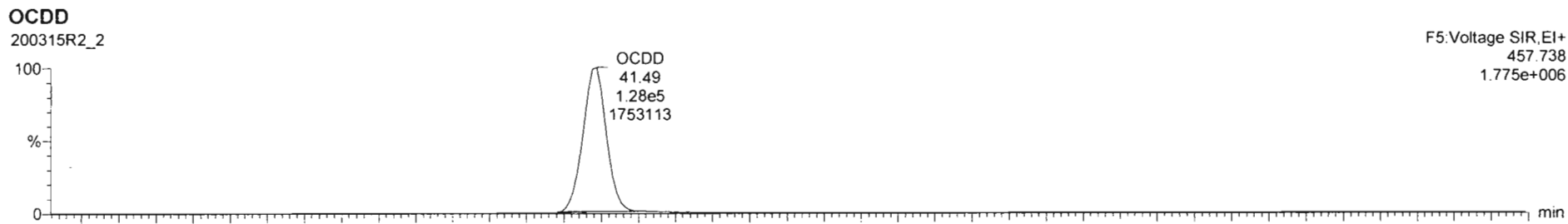


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LRST AREA: 1.775e+006
Area: 1.775e+006

Name: 200315R2_2, Date: 16-Mar-2020, Time: 00:47:18, ID: ST200315R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



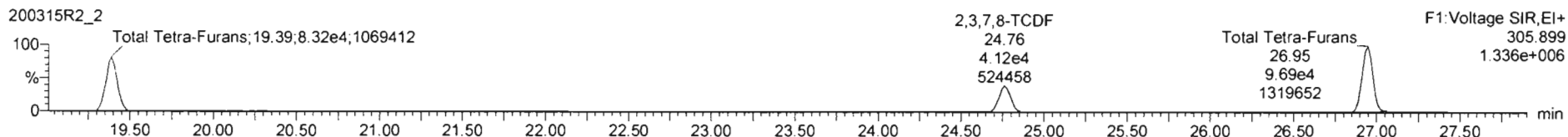
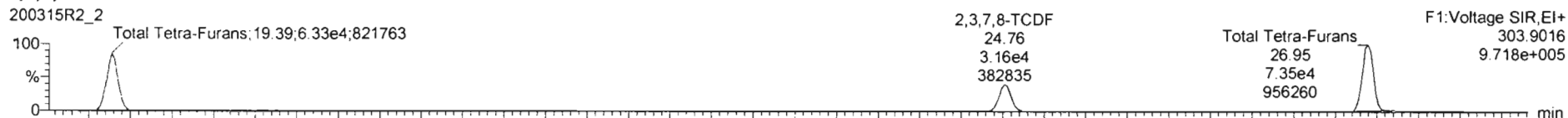
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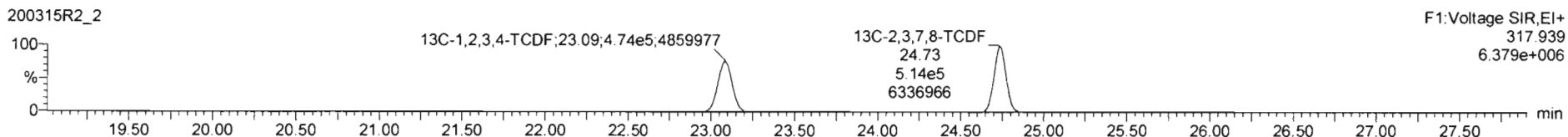
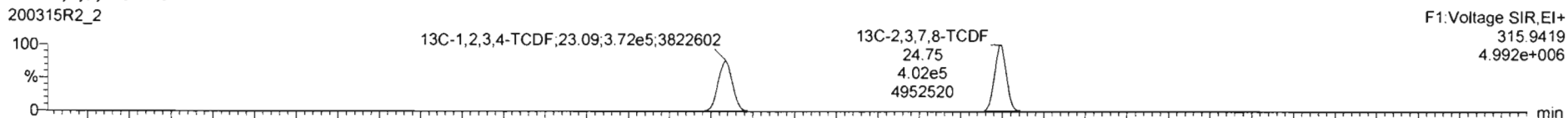
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Sample Name: 200315R2_2, Date: 16-Mar-2020, Time: 00:47:18, ID: ST200315R2_1 1613 CS3 19L2305, Description: 1613-CS3 19L2305

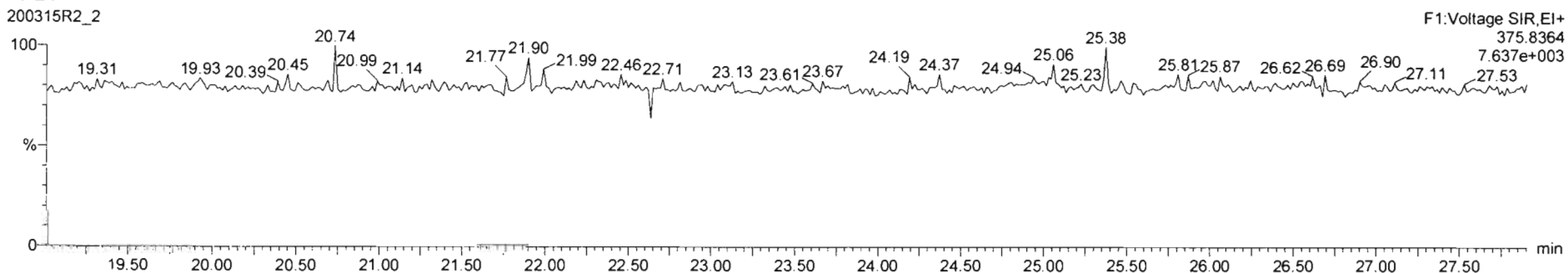
2,3,7,8-TCDF



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



DPE1



Dataset: Untitled

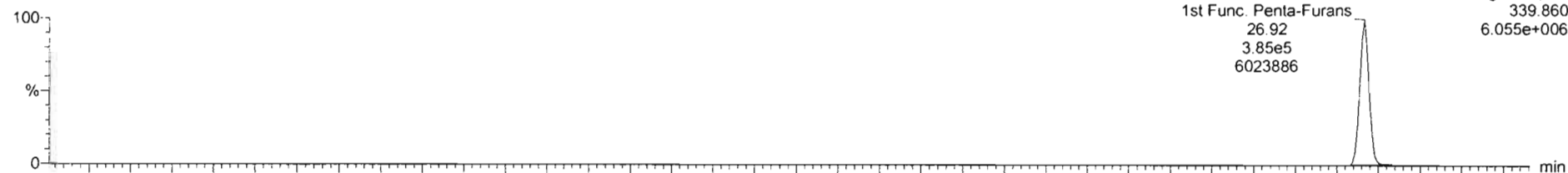
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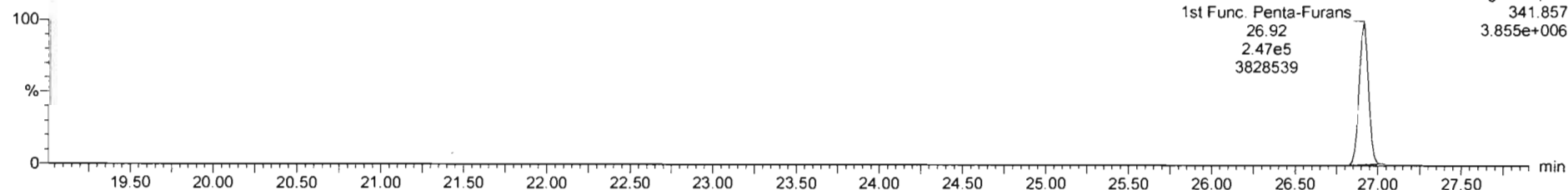
ID: ST200315R2_2, Date: 16-Mar-2020, Time: 00:47:18, ID: ST200315R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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200315R2_2

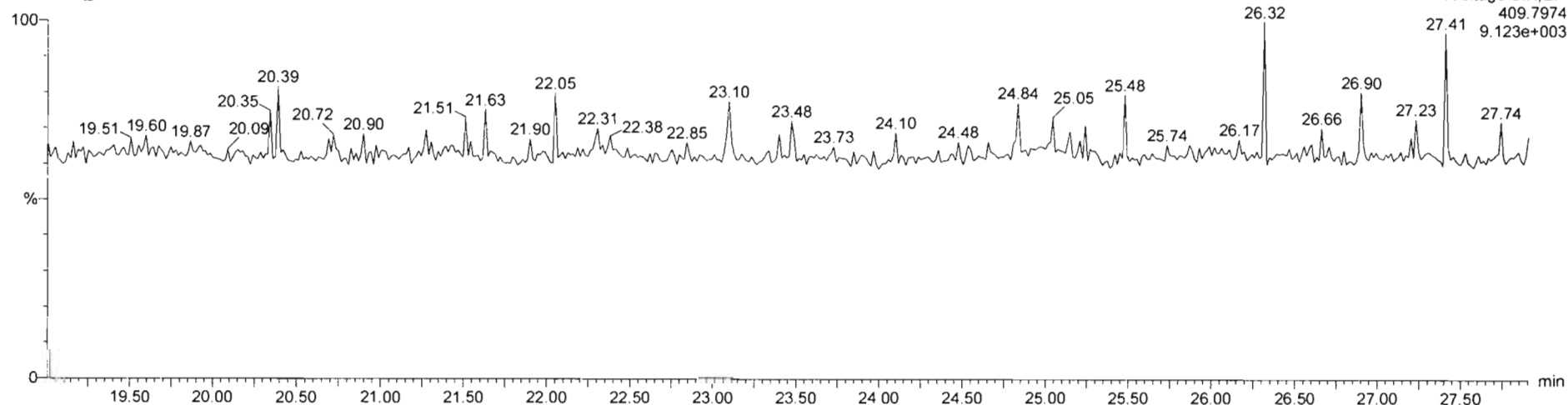


200315R2_2



DPE6

200315R2_2



Dataset: Untitled

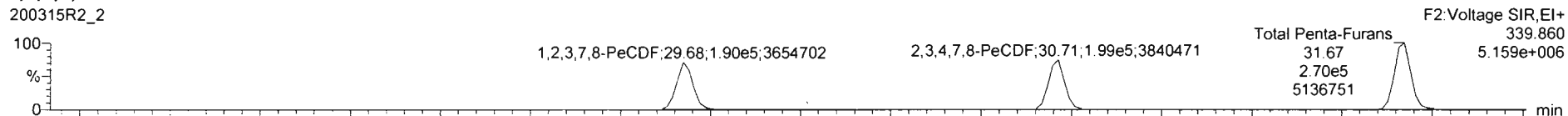
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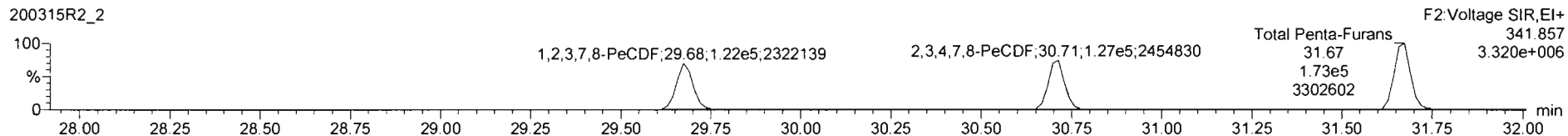
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1,2,3,7,8-PeCDF

200315R2_2

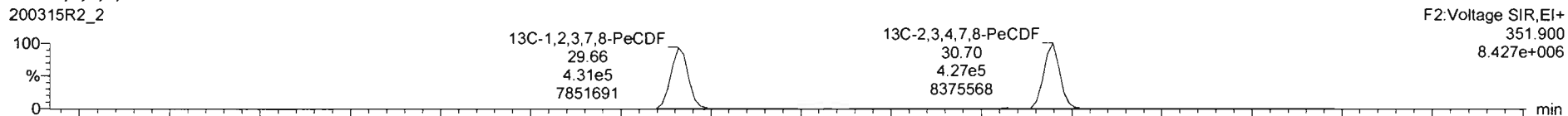


200315R2_2

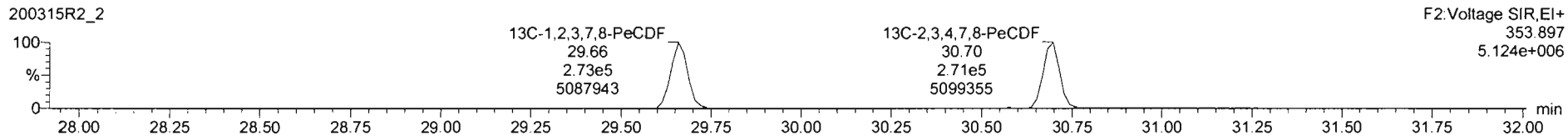


13C-1,2,3,7,8-PeCDF

200315R2_2

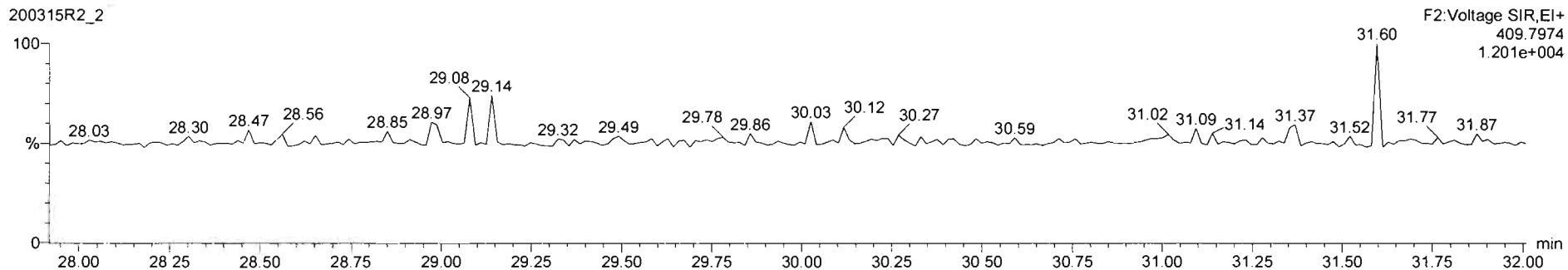


200315R2_2



DPE2

200315R2_2



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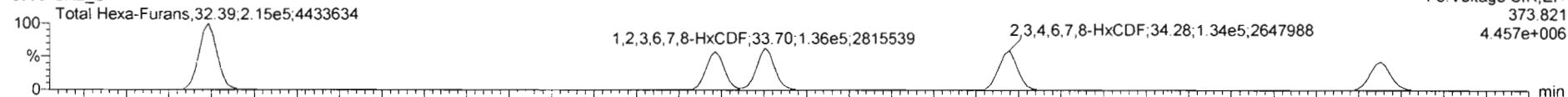
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Printed: Monday, March 16, 2020 07:54:46 Pacific Daylight Time

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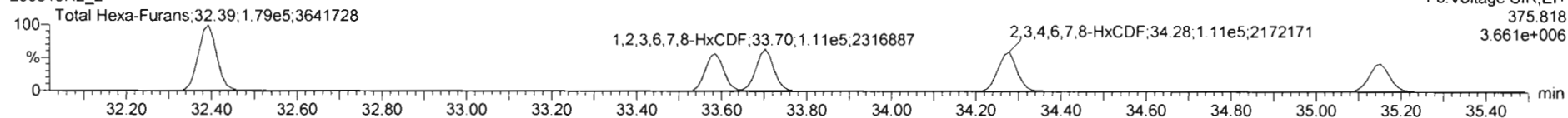
SPID: ST200315R2_2; Date: 16-Mar-2020; Time: 00:47:18; ID: ST200315R2_1 1613 CS3 19L2305; Description: 1613 CS3 19L2305; Sample: 1613 CS3 19L2305; Date: 16-Mar-2020; Time: 00:47:18; ID: ST200315R2_2

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

200315R2_2

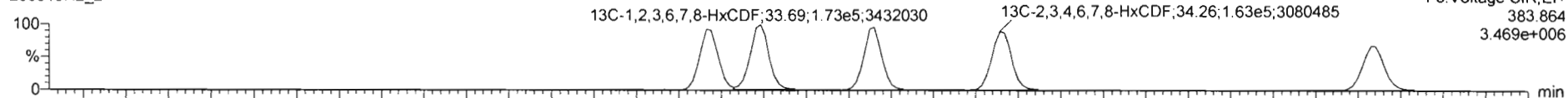


200315R2_2

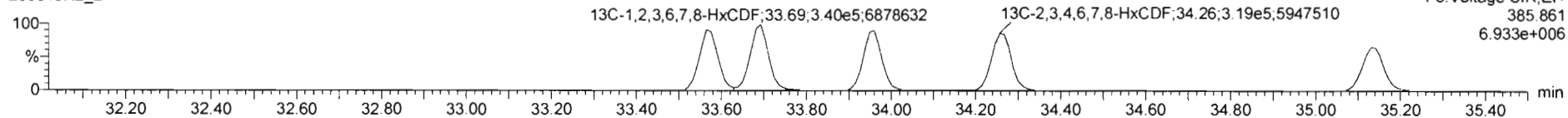


13C-1,2,3,4,7,8-HxCDF

200315R2_2

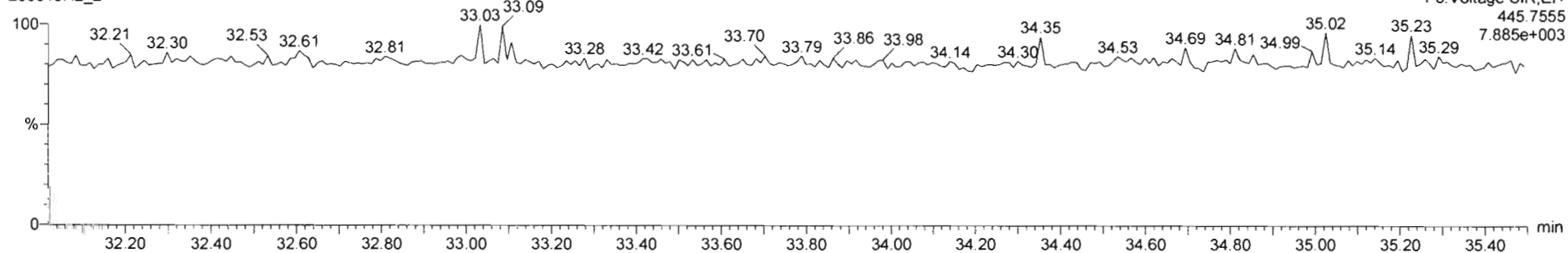


200315R2_2



DPE3

200315R2_2



Dataset: Untitled

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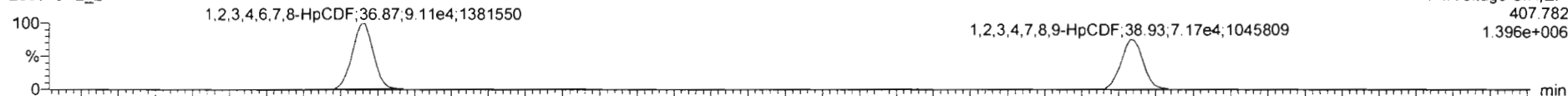
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Sample ID: ST200315R2_2, Date: 16-Mar-2020, Time: 00:47:18, ID: ST200315R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

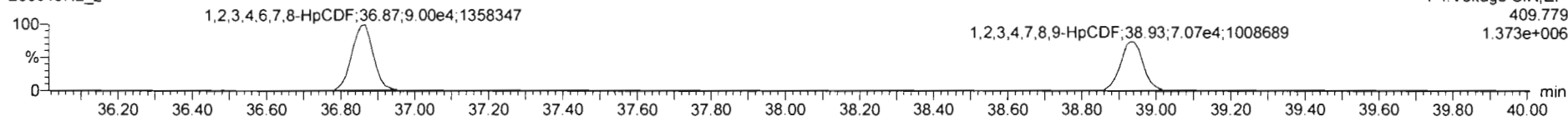
1,2,3,4,6,7,8-HpCDF

200315R2_2



F4: Voltage SIR, EI+
407.782
1.396e+006

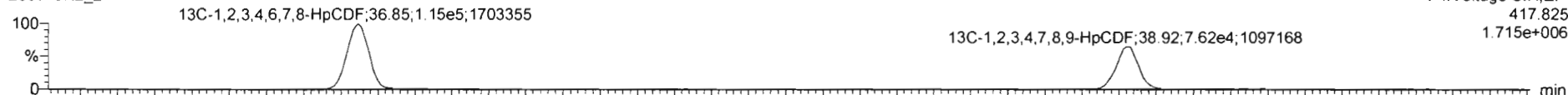
200315R2_2



F4: Voltage SIR, EI+
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1.373e+006

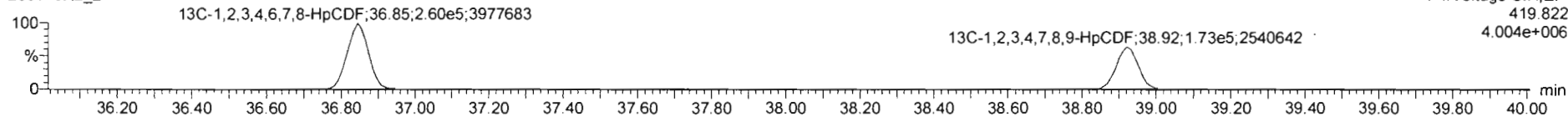
13C-1,2,3,4,6,7,8-HpCDF

200315R2_2



F4: Voltage SIR, EI+
417.825
1.715e+006

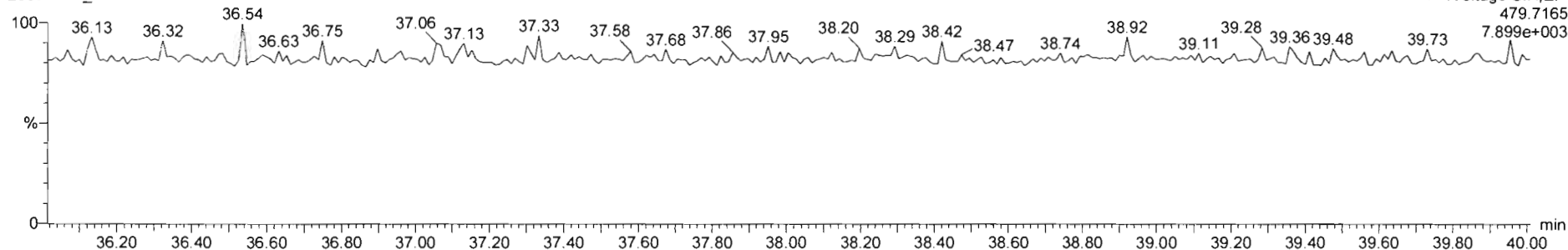
200315R2_2



F4: Voltage SIR, EI+
419.822
4.004e+006

DPE4

200315R2_2



F4: Voltage SIR, EI+
479.7165
7.899e+003

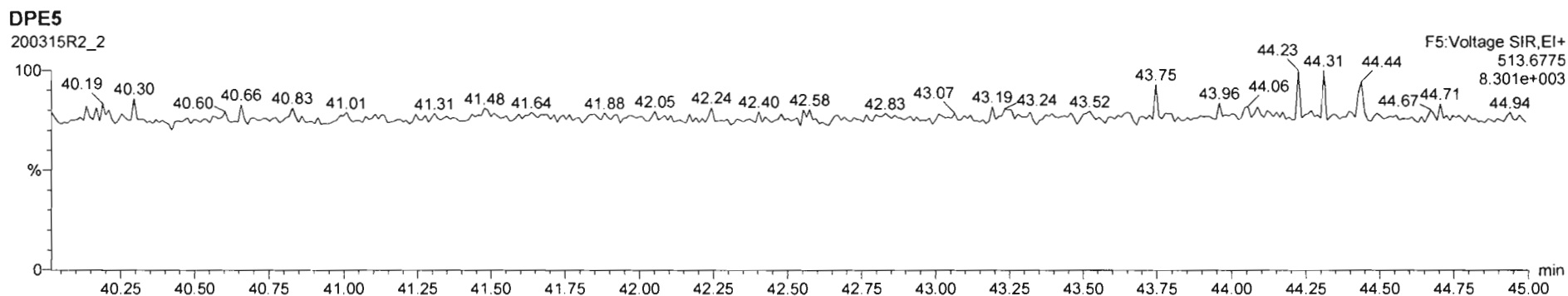
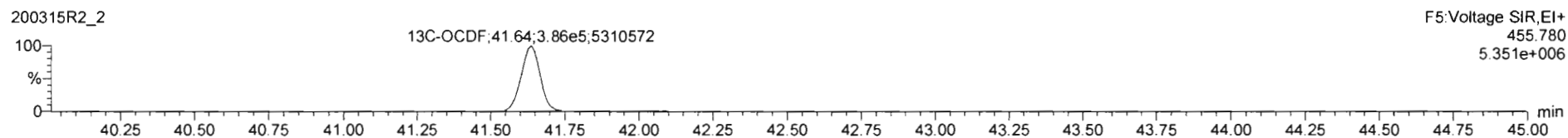
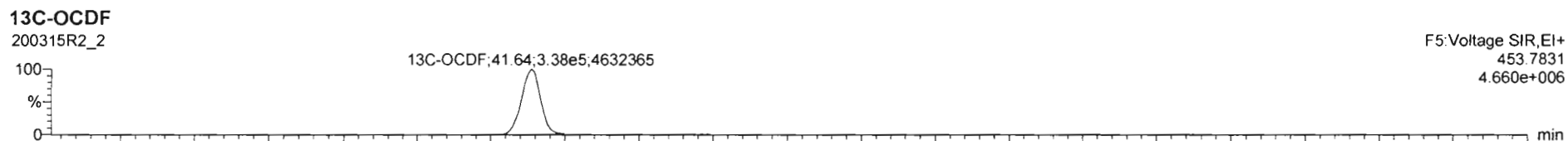
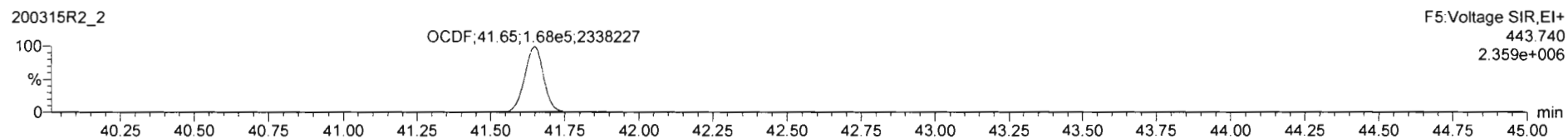
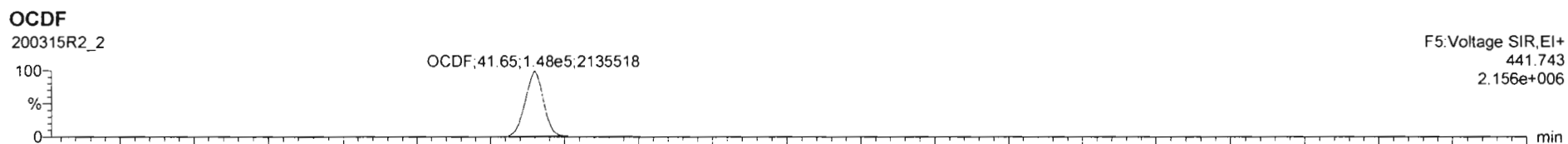
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Last Altered: Monday, March 16, 2020 07:41:17 Pacific Daylight Time

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

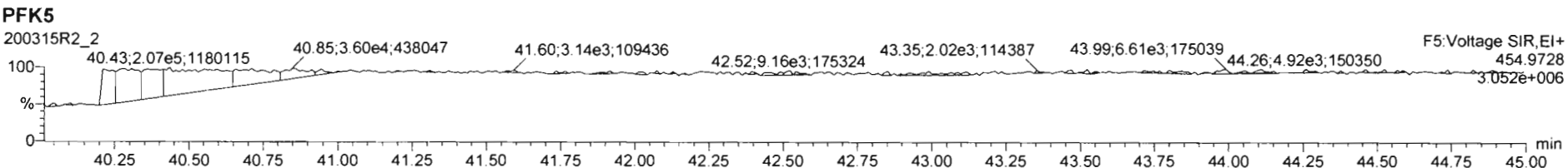
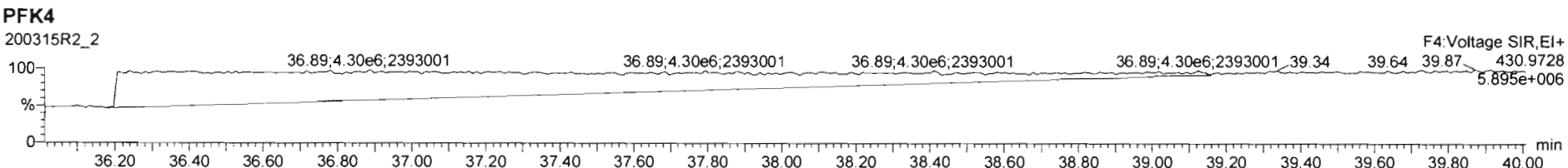
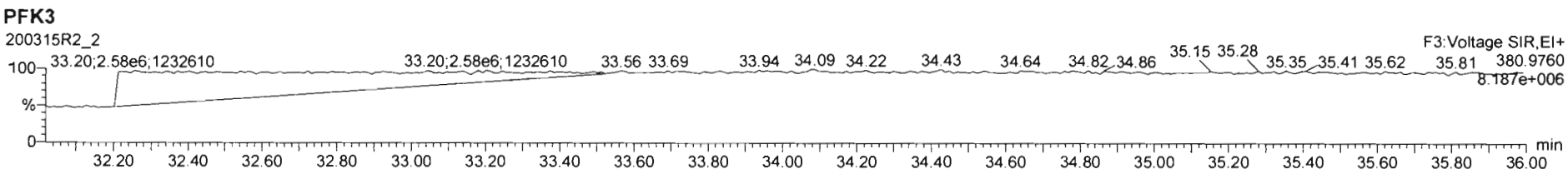
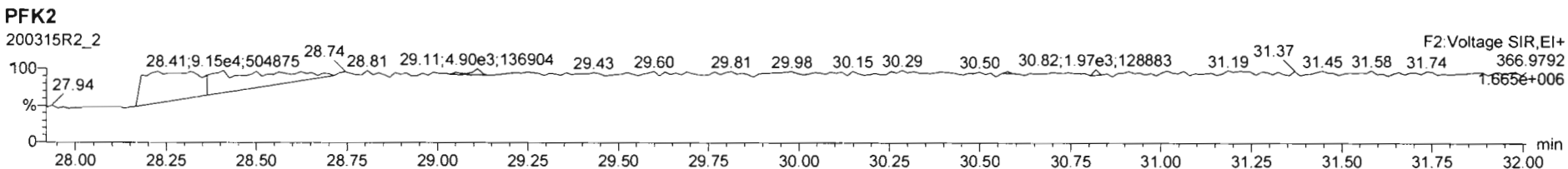
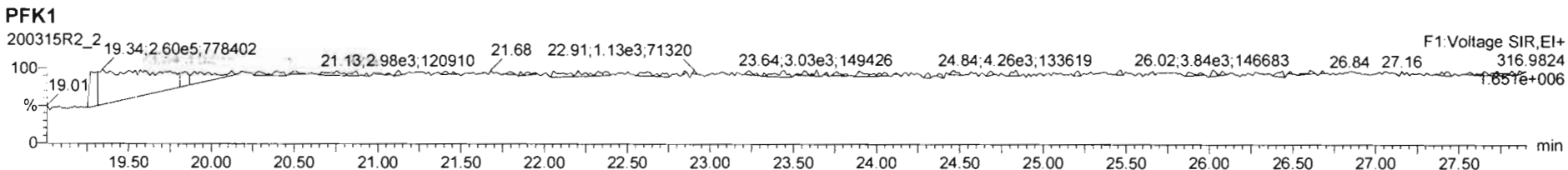


Dataset: Untitled

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: 07:41:17
Printed: 07:54:46

SP1: SP2 Name: 200315R2_2, Date: 16-Mar-2020, Time: 00:47:18, ID: ST200315R2_1 1613 CS3 19L2305, Description: 1613-CS3-19L2305



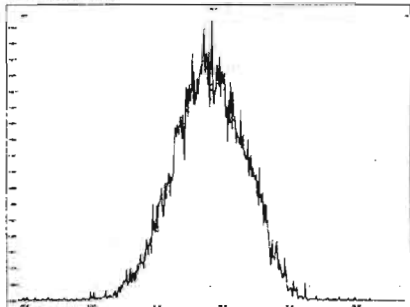
Resolution Check Report

MassLynx 4.1 SCN815

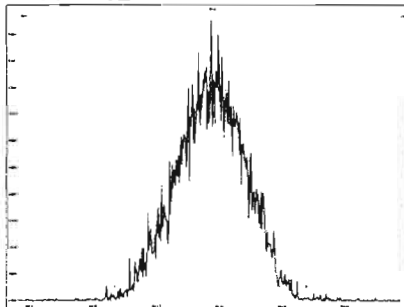
ⓐ INST. VENTED & STOPPED READING
MASSES DURING END RES CHECK.

Printed: Monday, March 16, 2020 10:26:52 Pacific Daylight Time

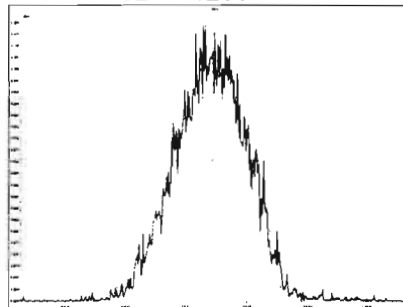
M 292.9824 R 11971



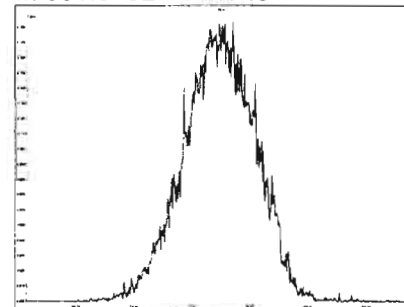
M 304.9824 R 12598



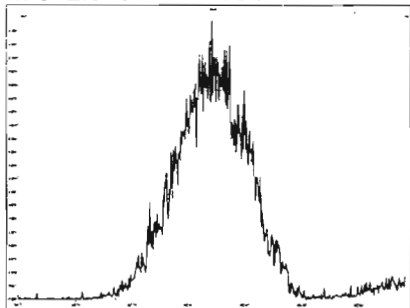
M 318.9792 R 12306



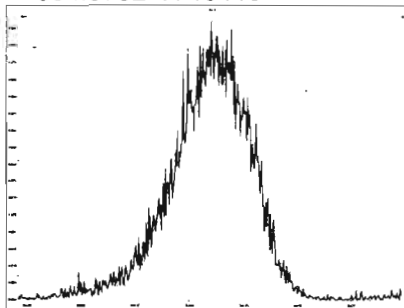
M 330.9792 R 11743



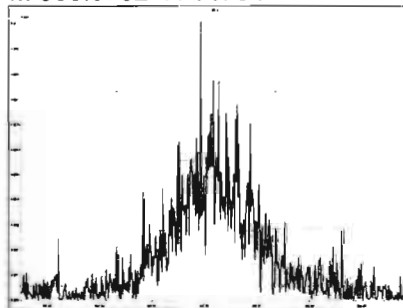
M 342.9792 R 12504



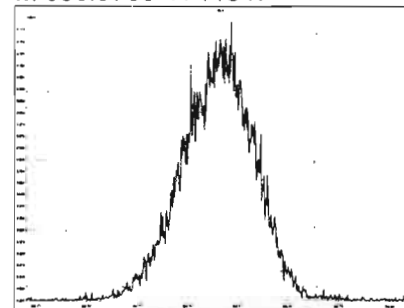
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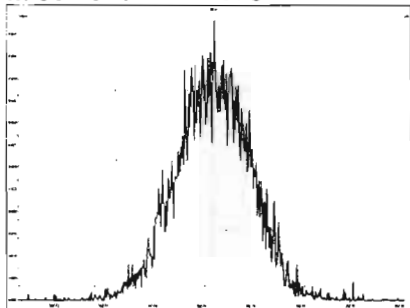
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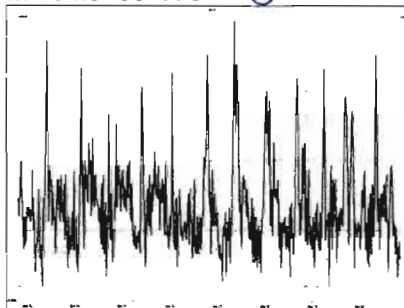
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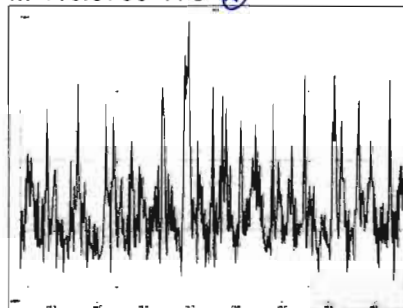
M 392.9760 R 11978



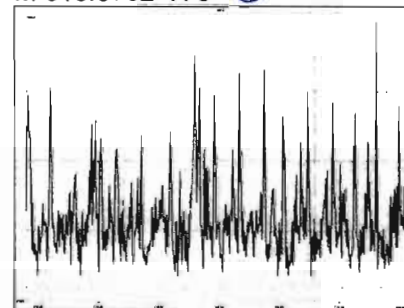
M 404.9760 R 0 ⓐ



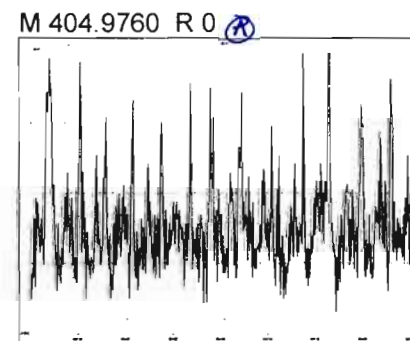
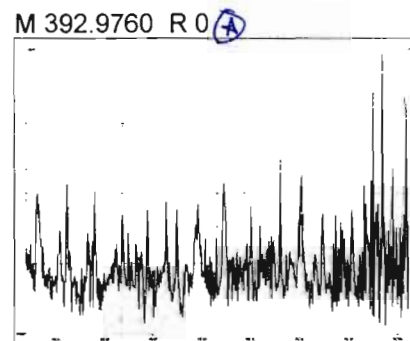
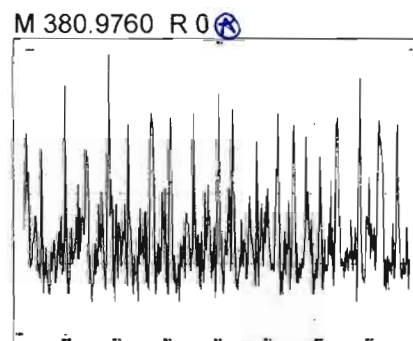
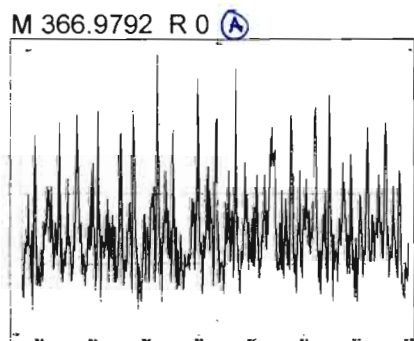
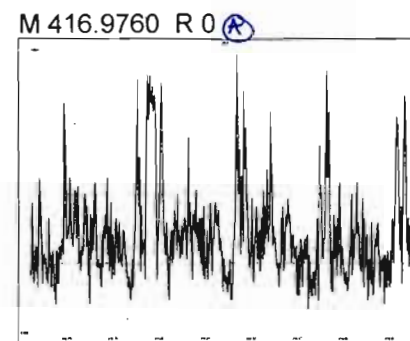
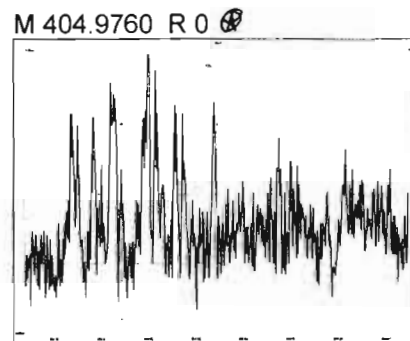
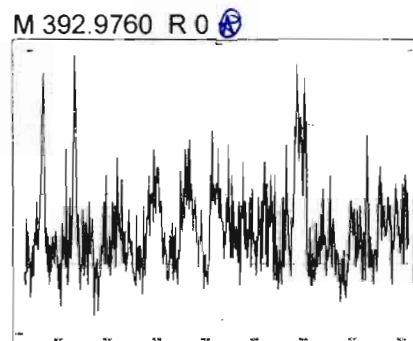
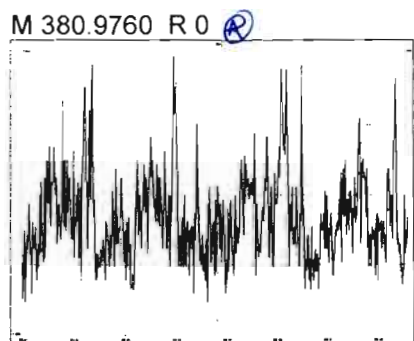
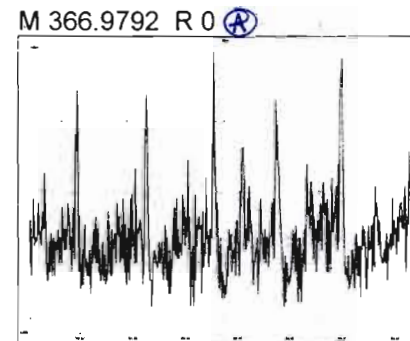
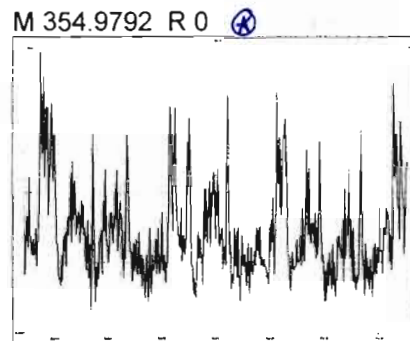
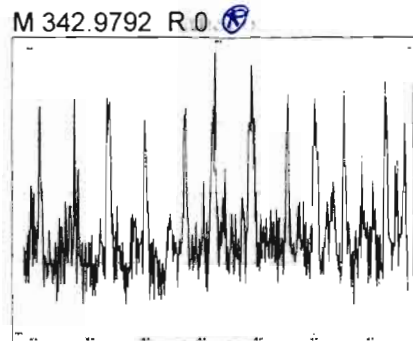
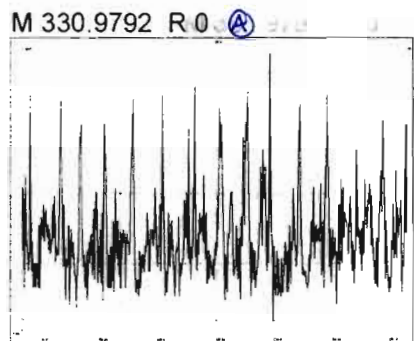
M 416.9760 R 0 ⓐ



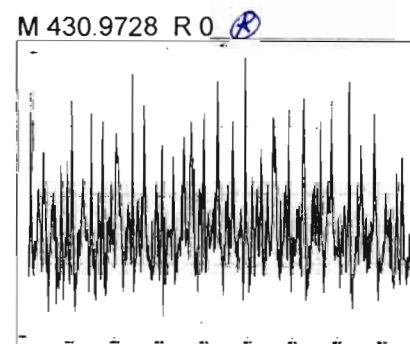
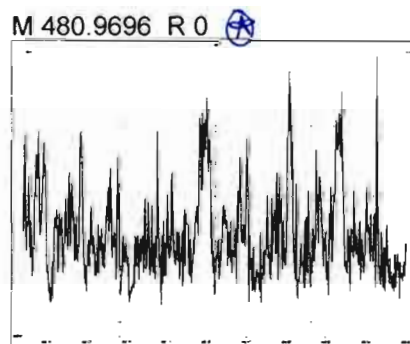
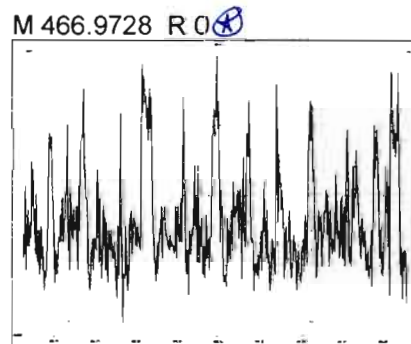
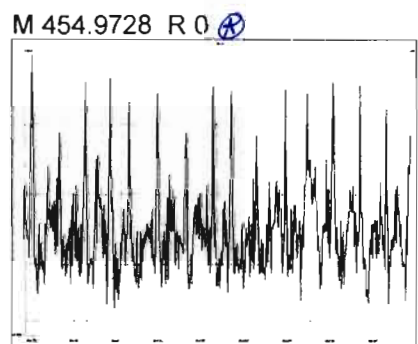
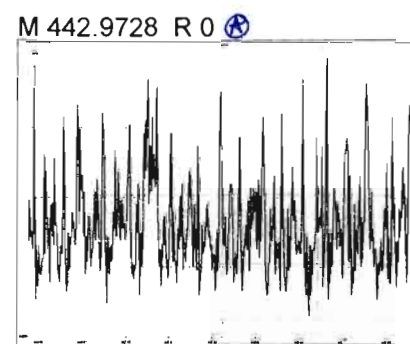
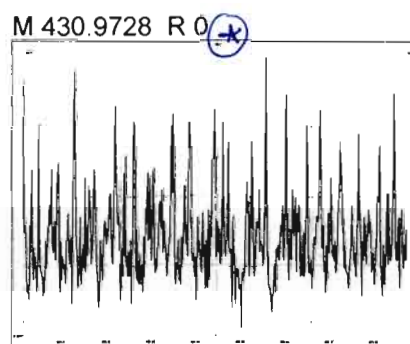
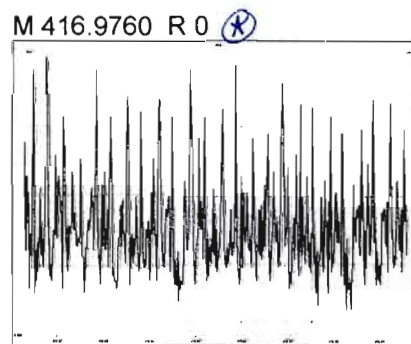
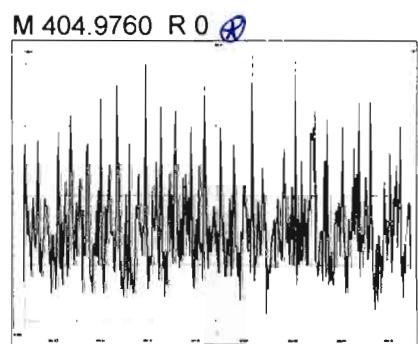
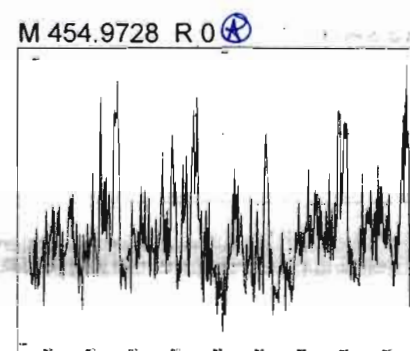
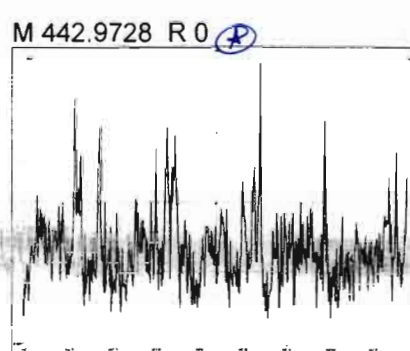
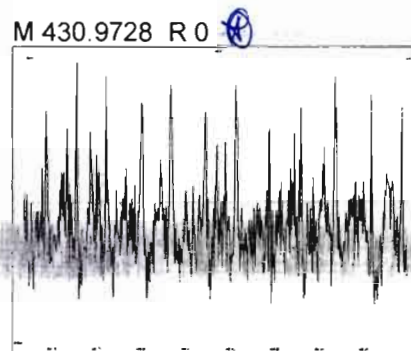
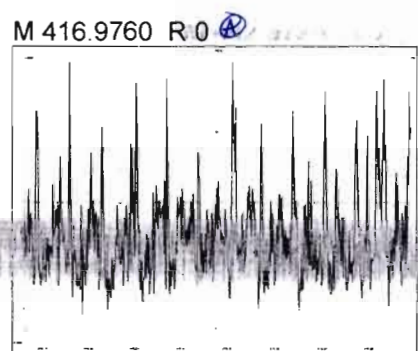
M 318.9792 R 0 ⓑ




Printed: Monday, March 16, 2020 10:26:52 Pacific Daylight Time

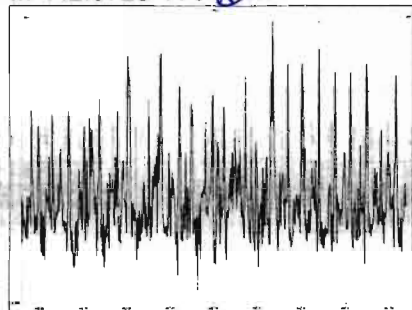



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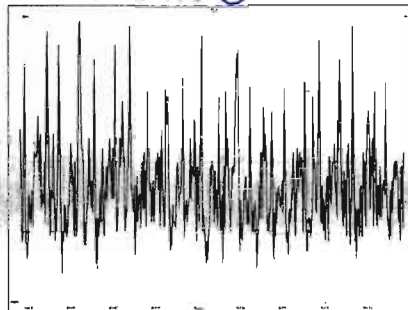


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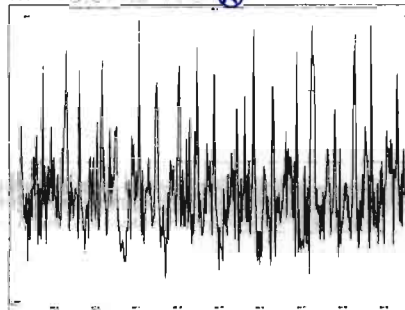
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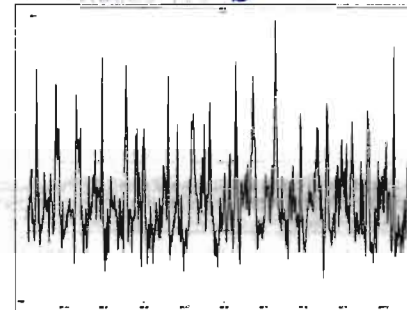
M 454.9728 R 0 




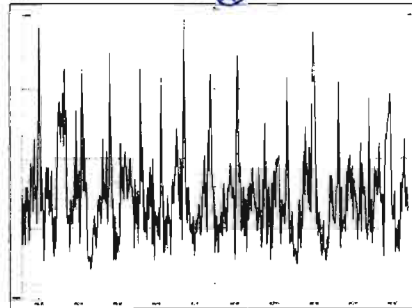
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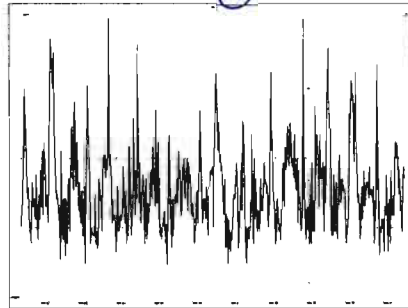
M 480.9696 R 0 




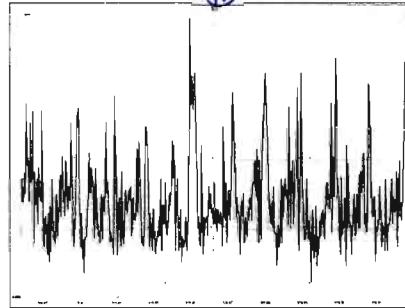
M 492.9696 R 0 



M 504.9696 R 0 



M 516.9697 R 0 



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200317R1-2

Reviewed By: C7 03/18/2020
Initials & Date

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>		<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/> <u>NA</u>	Mass resolution \geq	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K		
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1614 1699 429 1613/1668/8280		
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/> <u>NA</u>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GC Break <20% <input type="checkbox"/> <u>NA</u>		
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8280 CS1 End Standard:		
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		<input type="checkbox"/> <u>NA</u>
Correct ICAL referenced?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Comments: 		
Run Log:					
- 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 checked="" type="checkbox"/>	<input type="checkbox"/>			

Dataset: U:\VG12.PRO\Results\200317R1\200317R1-2.qld

Last Altered: Tuesday, March 17, 2020 15:34:42 Pacific Daylight Time
Printed: Tuesday, March 17, 2020 15:38:01 Pacific Daylight Time

GPB 03/17/2020

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

C703/2/2020

Name: 200317R1_2, Date: 17-Mar-2020, Time: 13:52:29, ID: ST200317R1_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	7.50e4	8.44e5	0.78	NO	0.983	25.80	25.78	NO	1.001	1.001	9.0321	90.3	NO
2	2 1,2,3,7,8-PeCDD	2.85e5	6.45e5	0.62	NO	0.921	31.07	31.06	NO	1.001	1.000	47.882	95.8	NO
3	3 1,2,3,4,7,8-HxCDD	2.61e5	4.79e5	1.27	NO	1.13	34.46	34.46	NO	1.000	1.000	48.124	96.2	NO
4	4 1,2,3,6,7,8-HxCDD	2.71e5	5.86e5	1.25	NO	0.984	34.54	34.56	NO	1.000	1.000	46.978	94.0	NO
5	5 1,2,3,7,8,9-HxCDD	2.48e5	5.35e5	1.26	NO	0.967	34.82	34.83	NO	1.000	1.001	47.999	96.0	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.95e5	4.06e5	1.03	NO	1.01	38.24	38.25	NO	1.000	1.001	47.813	95.6	NO
7	7 OCDD	3.66e5	7.48e5	0.92	NO	1.05	41.29	41.30	NO	1.000	1.000	93.215	93.2	NO
8	8 2,3,7,8-TCDF	9.38e4	1.12e6	0.75	NO	0.915	24.79	24.79	NO	1.001	1.001	9.1393	91.4	NO
9	9 1,2,3,7,8-PeCDF	4.36e5	9.43e5	1.54	NO	0.959	29.73	29.72	NO	1.001	1.000	48.175	96.4	NO
10	10 2,3,4,7,8-PeCDF	4.35e5	8.97e5	1.55	NO	1.00	30.76	30.74	NO	1.001	1.000	48.366	96.7	NO
11	11 1,2,3,4,7,8-HxCDF	3.28e5	6.74e5	1.22	NO	1.04	33.60	33.61	NO	1.000	1.000	46.812	93.6	NO
12	12 1,2,3,6,7,8-HxCDF	3.64e5	7.46e5	1.23	NO	1.01	33.72	33.72	NO	1.000	1.000	48.237	96.5	NO
13	13 2,3,4,6,7,8-HxCDF	3.54e5	6.82e5	1.22	NO	1.09	34.31	34.29	NO	1.001	1.000	47.497	95.0	NO
14	14 1,2,3,7,8,9-HxCDF	2.75e5	5.79e5	1.25	NO	1.03	35.15	35.16	NO	1.000	1.000	46.306	92.6	NO
15	15 1,2,3,4,6,7,8-HpCDF	2.53e5	5.23e5	1.01	NO	1.05	36.88	36.86	NO	1.001	1.000	46.126	92.3	NO
16	16 1,2,3,4,7,8,9-HpCDF	2.00e5	3.50e5	1.04	NO	1.21	38.89	38.90	NO	1.000	1.000	47.131	94.3	NO
17	17 OCDF	4.24e5	9.48e5	0.89	NO	0.947	41.47	41.48	NO	1.000	1.000	94.483	94.5	NO
18	18 13C-2,3,7,8-TCDD	8.44e5	7.14e5	0.78	NO	1.18	25.75	25.76	NO	1.029	1.029	99.861	99.9	NO
19	19 13C-1,2,3,7,8-PeCDD	6.45e5	7.14e5	0.62	NO	0.864	30.94	31.05	NO	1.236	1.240	104.58	105	NO
20	20 13C-1,2,3,4,7,8-HxCDD	4.79e5	6.77e5	1.30	NO	0.754	34.45	34.45	NO	1.014	1.014	93.750	93.7	NO
21	21 13C-1,2,3,6,7,8-HxCDD	5.86e5	6.77e5	1.24	NO	0.925	34.56	34.54	NO	1.017	1.017	93.567	93.6	NO
22	22 13C-1,2,3,7,8,9-HxCDD	5.35e5	6.77e5	1.26	NO	0.829	34.82	34.81	NO	1.025	1.024	95.262	95.3	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.06e5	6.77e5	1.06	NO	0.598	38.28	38.23	NO	1.127	1.125	100.14	100	NO
24	24 13C-OCDD	7.48e5	6.77e5	0.90	NO	0.571	41.43	41.29	NO	1.219	1.215	193.35	96.7	NO
25	25 13C-2,3,7,8-TCDF	1.12e6	1.04e6	0.78	NO	1.09	24.77	24.76	NO	0.990	0.989	99.226	99.2	NO
26	26 13C-1,2,3,7,8-PeCDF	9.43e5	1.04e6	1.61	NO	0.876	29.61	29.71	NO	1.183	1.187	103.79	104	NO
27	27 13C-2,3,4,7,8-PeCDF	8.97e5	1.04e6	1.58	NO	0.844	30.62	30.73	NO	1.223	1.228	102.54	103	NO
28	28 13C-1,2,3,4,7,8-HxCDF	6.74e5	6.77e5	0.51	NO	1.00	33.60	33.60	NO	0.989	0.989	99.547	99.5	NO
29	29 13C-1,2,3,6,7,8-HxCDF	7.46e5	6.77e5	0.52	NO	1.12	33.71	33.71	NO	0.992	0.992	98.510	98.5	NO
30	30 13C-2,3,4,6,7,8-HxCDF	6.82e5	6.77e5	0.52	NO	1.04	34.29	34.28	NO	1.009	1.009	97.300	97.3	NO
31	31 13C-1,2,3,7,8,9-HxCDF	5.79e5	6.77e5	0.50	NO	0.873	35.16	35.15	NO	1.035	1.035	97.939	97.9	NO

Dataset: U:\WG12.PRO\Results\200317R1\200317R1-2.qld

Last Altered: Tuesday, March 17, 2020 15:34:42 Pacific Daylight Time
Printed: Tuesday, March 17, 2020 15:38:01 Pacific Daylight Time

Name: 200317R1_2, Date: 17-Mar-2020, Time: 13:52:29, ID: ST200317R1_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	13C-1,2,3,4,6,7,8-HpCDF	5.23e5	6.77e5	0.44	NO	0.771	36.88	36.85	NO	1.085	1.084	100.24	100	NO
33	13C-1,2,3,4,7,8,9-HpCDF	3.50e5	6.77e5	0.44	NO	0.519	38.97	38.89	NO	1.147	1.145	99.676	99.7	NO
34	13C-OCDF	9.48e5	6.77e5	0.86	NO	0.696	41.61	41.47	NO	1.225	1.220	201.09	101	NO
35	37Cl-2,3,7,8-TCDD	7.94e4	7.14e5			1.17	25.76	25.78	NO	1.029	1.030	9.4672	94.7	NO
36	13C-1,2,3,4-TCDD	7.14e5	7.14e5	0.78	NO	1.00	25.05	25.03	NO	1.000	1.000	100.00	100	NO
37	13C-1,2,3,4-TCDF	1.04e6	1.04e6	0.80	NO	1.00	23.19	23.10	NO	1.000	1.000	100.00	100	NO
38	13C-1,2,3,4,6,9-HxCDF	6.77e5	6.77e5	0.51	NO	1.00	33.88	33.98	NO	1.000	1.000	100.00	100	YES <i>ok</i>
39	Total Tetra-Dioxins		8.44e5			0.983	24.62		NO	0.000		79.243		NO
40	Total Penta-Dioxins		6.45e5			0.921	29.96		NO	0.000		211.05		NO
41	Total Hexa-Dioxins		0.00e0			0.984	33.63		NO	0.000		235.21		NO
42	Total Hepta-Dioxins		4.06e5			1.01	37.64		NO	0.000		127.75		NO
43	Total Tetra-Furans		1.12e6			0.915	23.61		NO	0.000		44.399		NO
44	1st Func. Penta-Furans		0.00e0			0.959	27.09		NO	0.000		84.972		NO
45	Total Penta-Furans		0.00e0			0.959	29.27		NO	0.000		166.83		NO
46	Total Hexa-Furans		0.00e0			1.09	33.56		NO	0.000		266.74		NO
47	Total Hepta-Furans		0.00e0			1.05	37.83		NO	0.000		93.448		NO

Dataset: Untitled

Last Altered: Wednesday, March 18, 2020 08:22:58 Pacific Daylight Time

Printed: Wednesday, March 18, 2020 08:23:09 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	④ 200317R1_1	ST200317R1_1 1613 CS3 19L2305	17-Mar-20	13:03:51
2	⑤ 200317R1_2	ST200317R1_2 1613 CS3 19L2305	17-Mar-20	13:52:29
3	200317R1_3	B0C0116-BS1 OPR 10	17-Mar-20	14:41:31
4	200317R1_4	B0B0132-BS1 OPR 10	17-Mar-20	15:27:42
5	200317R1_5	B0B0013-BS1 OPR 10	17-Mar-20	16:15:21
6	200317R1_6	SOLVENT BLANK	17-Mar-20	17:02:59
7	200317R1_7	B0C0116-BLK1 Method Blank 10	17-Mar-20	17:50:41
8	200317R1_8	B0B0132-BLK1 Method Blank 10	17-Mar-20	18:38:17
9	200317R1_9	2000143-15 PDI-044SC-A-03-04-190930 12.5	17-Mar-20	19:25:57
10	200317R1_10	2000143-16 PDI-046SC-A-03-04-191001 10.85	17-Mar-20	20:13:30
11	200317R1_11	2000143-17 PDI-047SC-A-03-04-191001 11.2	17-Mar-20	21:01:09
12	200317R1_12	2000143-18 PDI-049SC-A-01-02-191015 19.5	17-Mar-20	21:48:48
13	200317R1_13	2000143-19 PDI-049SC-A-02-03-191015 19.23	17-Mar-20	22:36:27
14	200317R1_14	2000143-20 PDI-052SC-A-05-06-191015 16.75	17-Mar-20	23:24:05
15	200317R1_15	2000406-12RE1 PDI-049SC-A-07-08-191015 ...	18-Mar-20	00:11:44
16	200317R1_16	2000144-11@2X PDI-082SC-A-04-05-191002 ...	18-Mar-20	00:59:23

④ USED TO ADJUST WINDOWS

⑤ USED FOR RUN

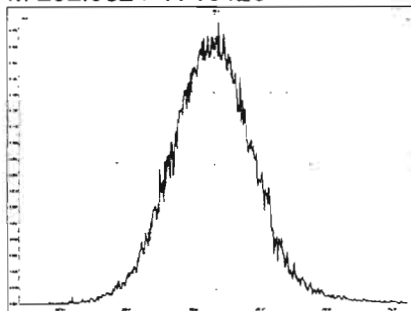
Experiment Calibration Report

MassLynx 4.1 SCN815

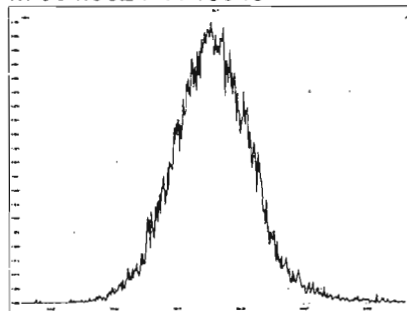
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, March 17, 2020 13:00:02 Pacific Daylight Time

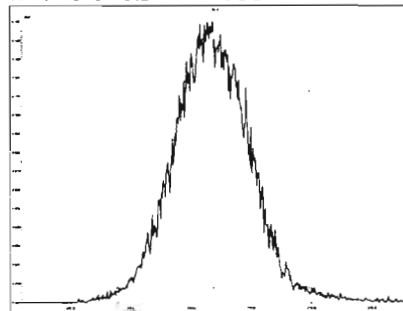
M 292.9824 R 10123



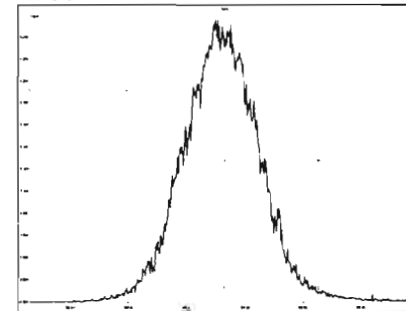
M 304.9824 R 10548



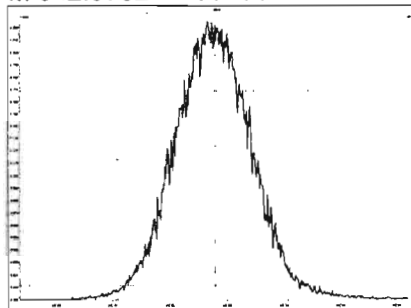
M 318.9792 R 11366



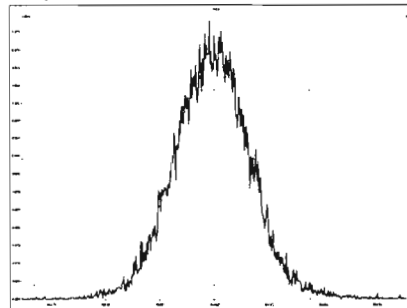
M 330.9792 R 11062



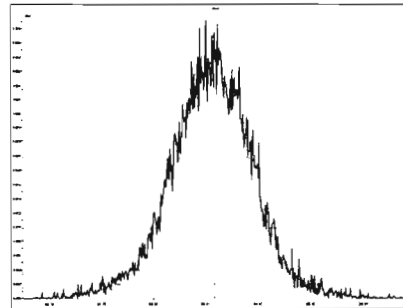
M 342.9792 R 11214



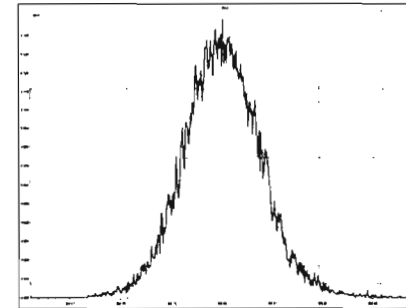
M 354.9792 R 11063



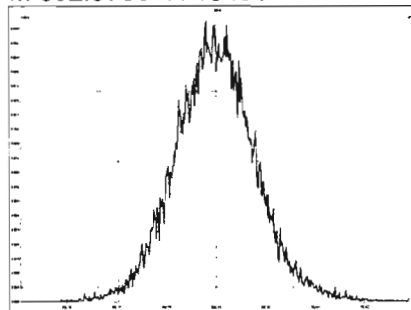
M 366.9792 R 10503



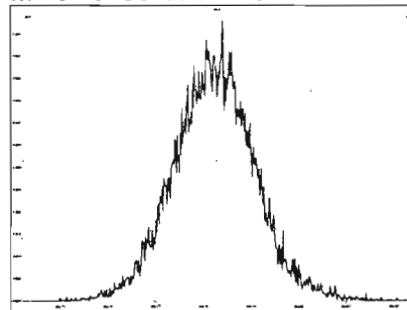
M 380.9760 R 10820



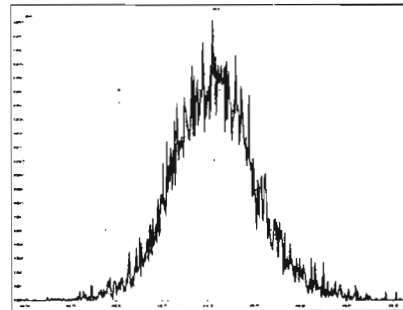
M 392.9760 R 10461



M 404.9760 R 10728



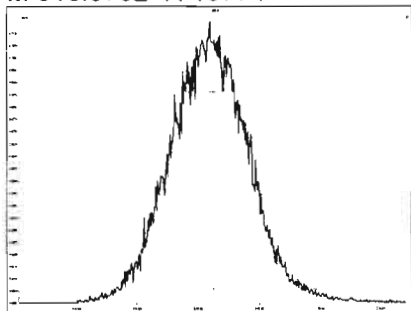
M 416.9760 R 10546



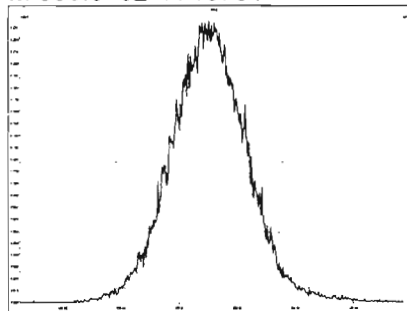
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Tuesday, March 17, 2020 13:00:31 Pacific Daylight Time

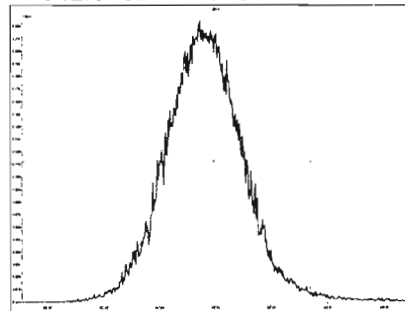
M 318.9792 R 10774



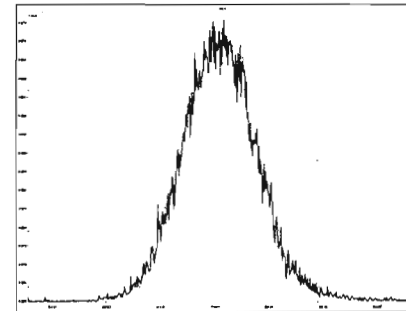
M 330.9792 R 10731



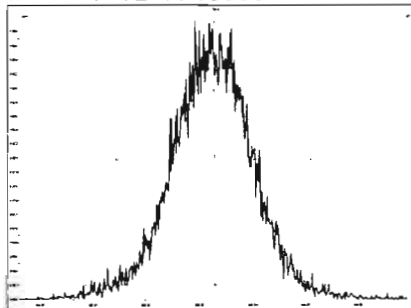
M 342.9792 R 10637



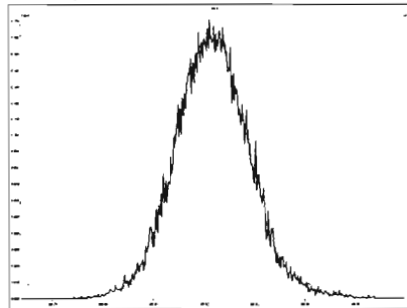
M 354.9792 R 10867



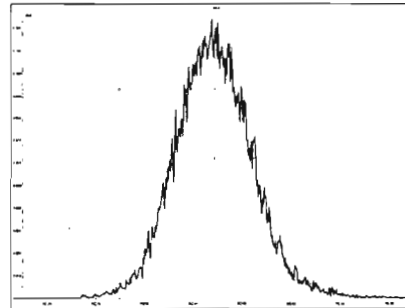
M 366.9792 R 10589



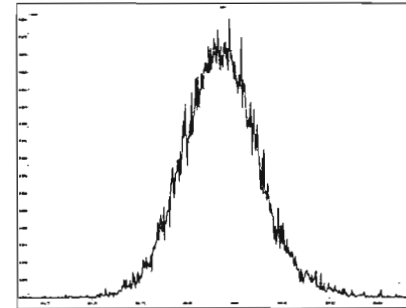
M 380.9760 R 11012



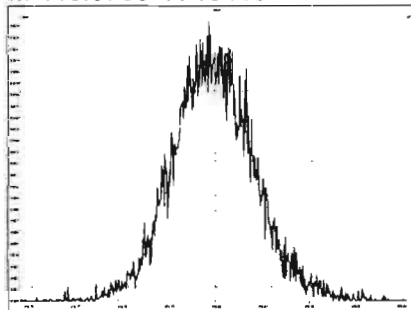
M 392.9760 R 11108



M 404.9760 R 10638



M 416.9760 R 10418



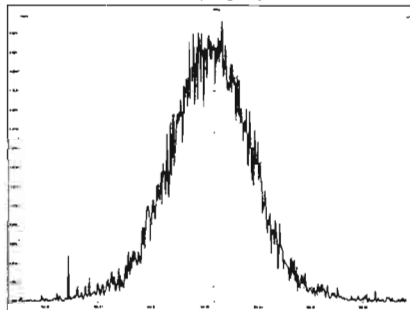
Experiment Calibration Report

MassLynx 4.1 SCN815

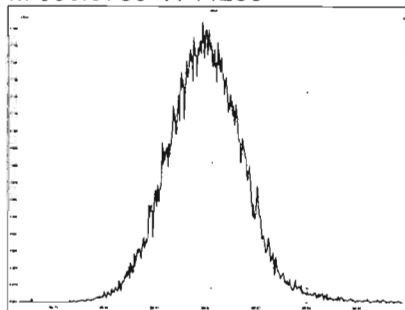
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Tuesday, March 17, 2020 13:01:01 Pacific Daylight Time

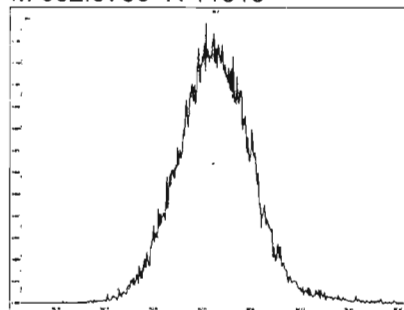
M 366.9792 R 11008



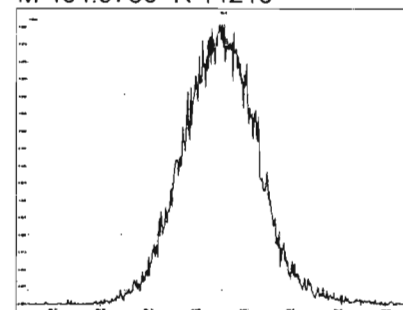
M 380.9760 R 11260



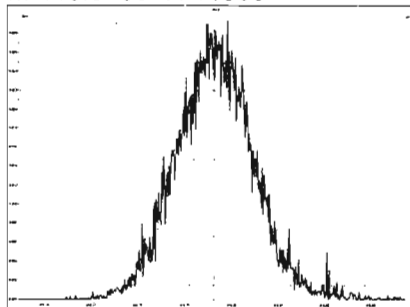
M 392.9760 R 11010



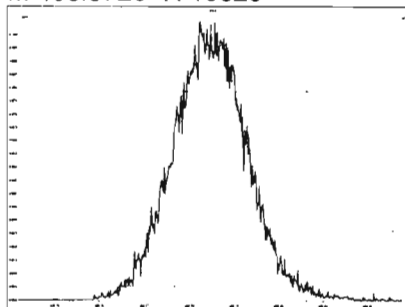
M 404.9760 R 11210



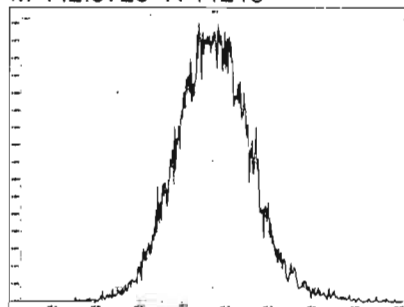
M 416.9760 R 11963



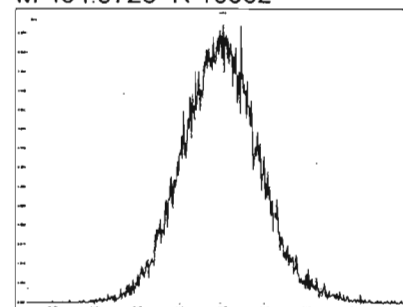
M 430.9728 R 10823



M 442.9728 R 11213



M 454.9728 R 10962



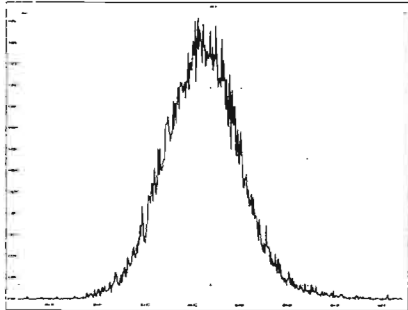
Experiment Calibration Report

MassLynx 4.1 SCN815

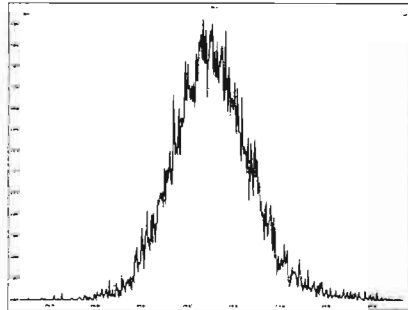
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Printed: Tuesday, March 17, 2020 13:01:28 Pacific Daylight Time

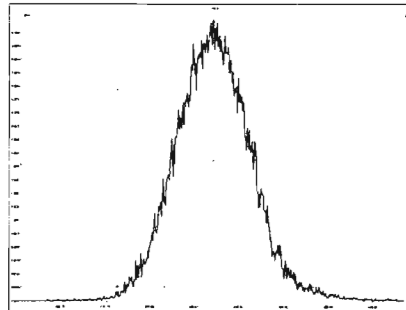
M 404.9760 R 10504



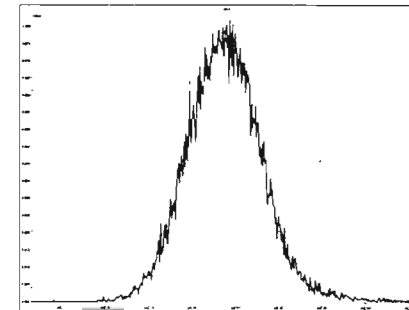
M 416.9760 R 12258



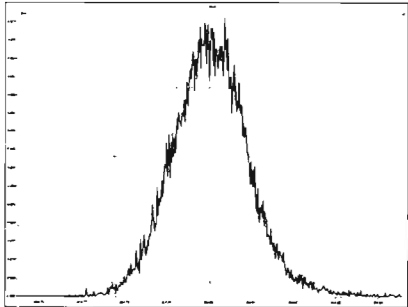
M 430.9728 R 11313



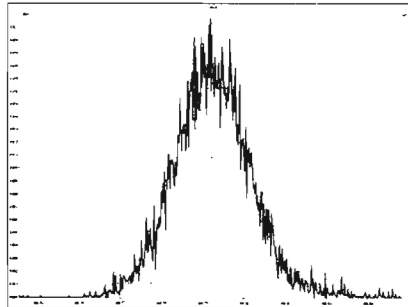
M 442.9728 R 11261



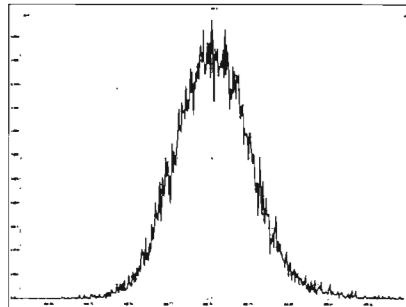
M 454.9728 R 10547



M 466.9728 R 11364



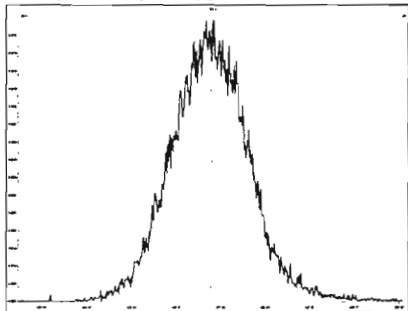
M 480.9696 R 11260



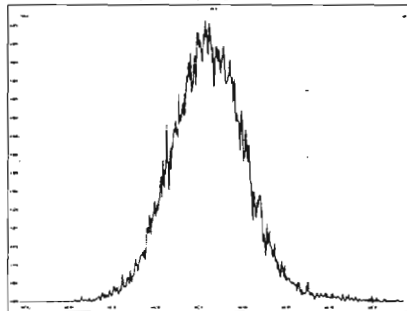
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Tuesday, March 17, 2020 13:02:01 Pacific Daylight Time

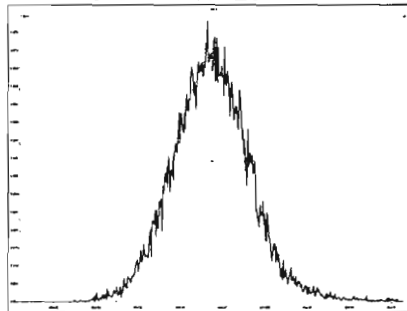
M 430.9728 R 10415



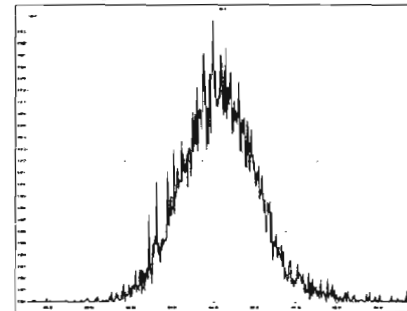
M 442.9728 R 10962



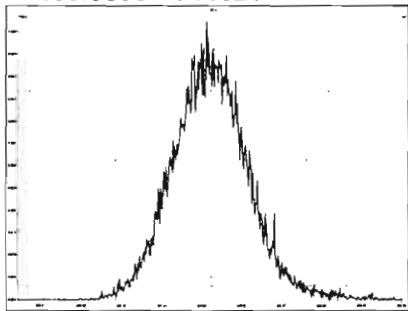
M 454.9728 R 10729



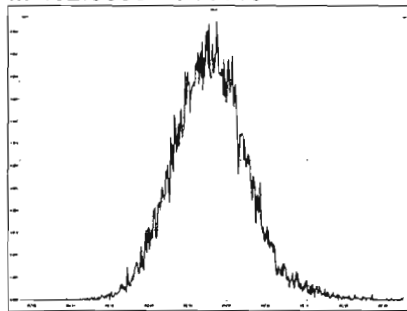
M 466.9728 R 11907



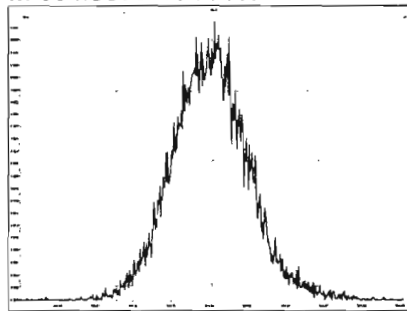
M 480.9696 R 11521



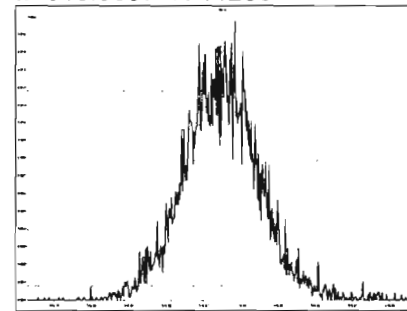
M 492.9696 R 11110



M 504.9696 R 11417



M 516.9697 R 11258



Dataset: Untitled

Last Altered: Tuesday, March 17, 2020 15:36:10 Pacific Daylight Time

Printed: Tuesday, March 17, 2020 15:36:28 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: 200317R1_2, Date: 17-Mar-2020, Time: 13:52:29, ID: ST200317R1_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	21.42
2	2 1,2,8,9-TCDD (Last)	26.83
3	3 1,2,4,7,9-PeCDD (First)	28.74
4	4 1,2,3,8,9-PeCDD (Last)	31.46
5	5 1,2,4,6,7,9-HxCDD (First)	32.99
6	6 1,2,3,7,8,9-HxCDD (Last)	34.83
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.23
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.25
9	9 1,3,6,8-TCDF (First)	19.40
10	10 1,2,8,9-TCDF (Last)	26.99
11	11 1,3,4,6,8-PeCDF (First)	26.95
12	12 1,2,3,8,9-PeCDF (Last)	31.70
13	13 1,2,3,4,6,8-HxCDF (First)	32.43
14	14 1,2,3,7,8,9-HxCDF (Last)	35.16
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.86
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.90

Dataset: Untitled

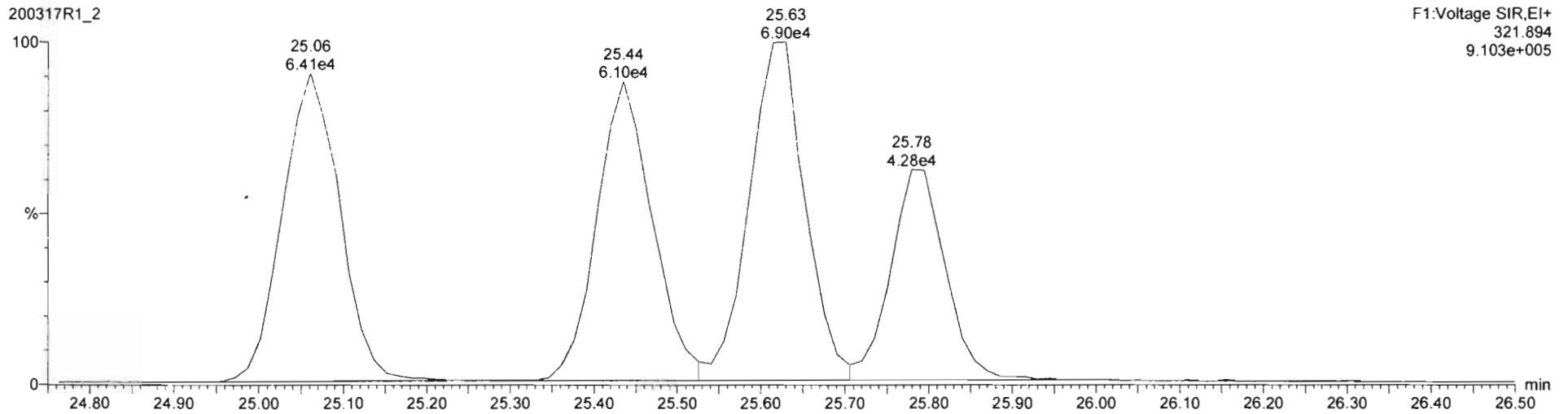
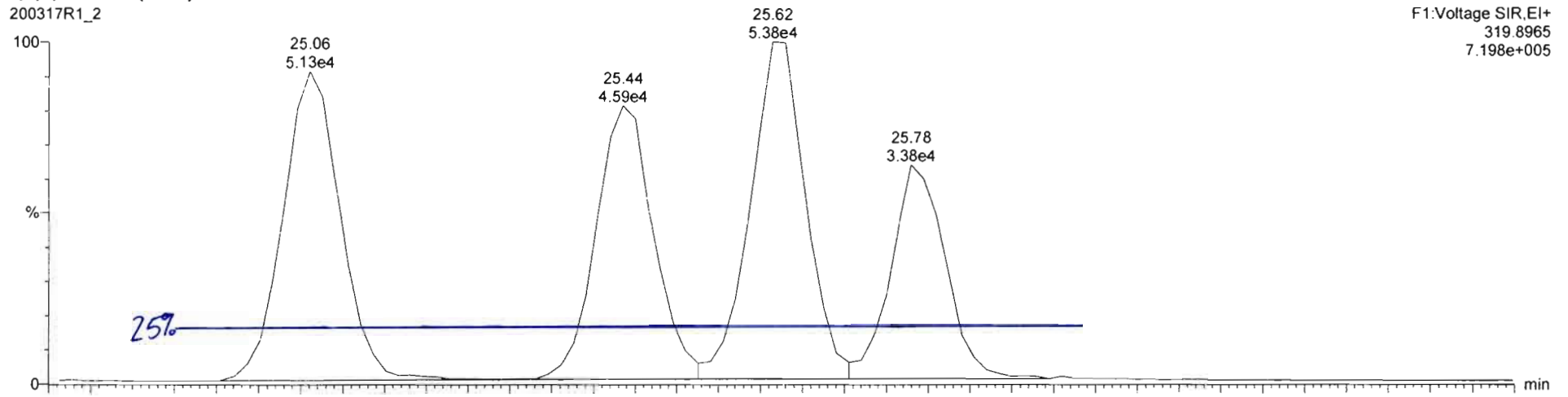
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Printed: Tuesday, March 17, 2020 15:36:28 Pacific Daylight Time

GRB 03/17/2020

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: 200317R1_2, Date: 17-Mar-2020, Time: 13:52:29, ID: ST200317R1_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,3,6,8-TCDD (First)
200317R1_2



Dataset: Untitled

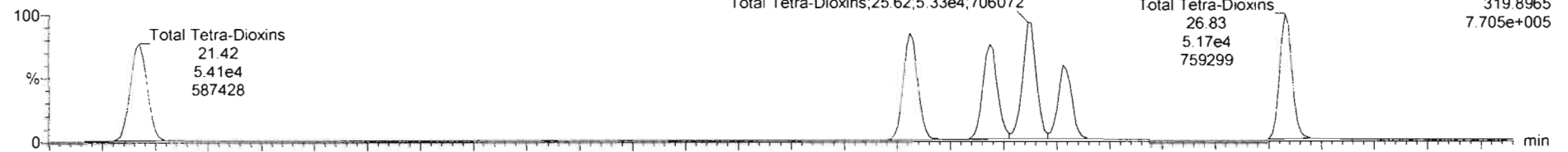
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Printed: Tuesday, March 17, 2020 15:35:32 Pacific Daylight Time

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

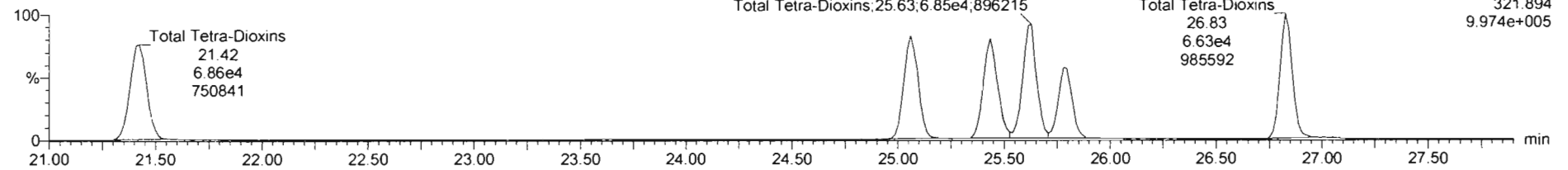
Name: 200317R1_2, Date: 17-Mar-2020, Time: 13:52:29, ID: ST200317R1_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD

200317R1_2

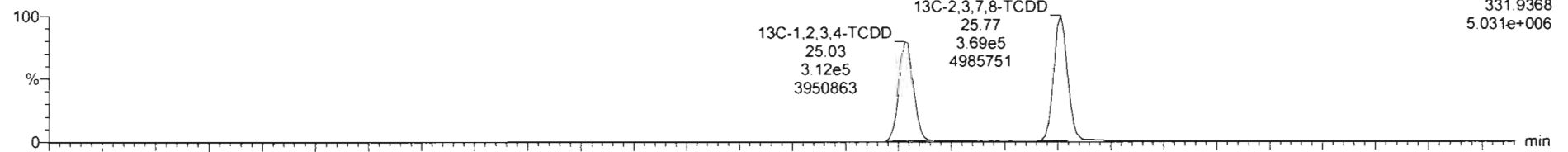


200317R1_2

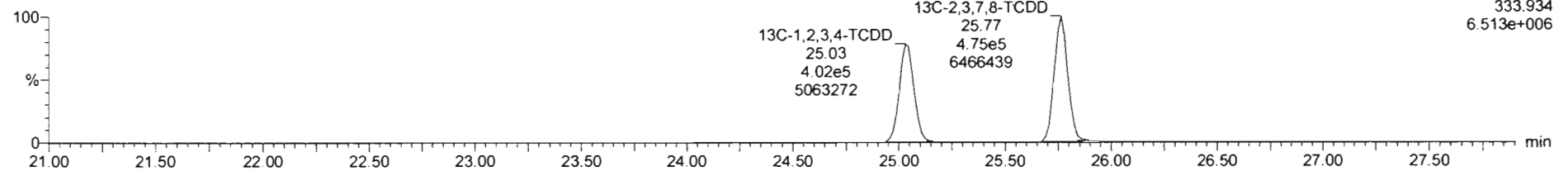


13C-2,3,7,8-TCDD

200317R1_2



200317R1_2



Dataset: Untitled

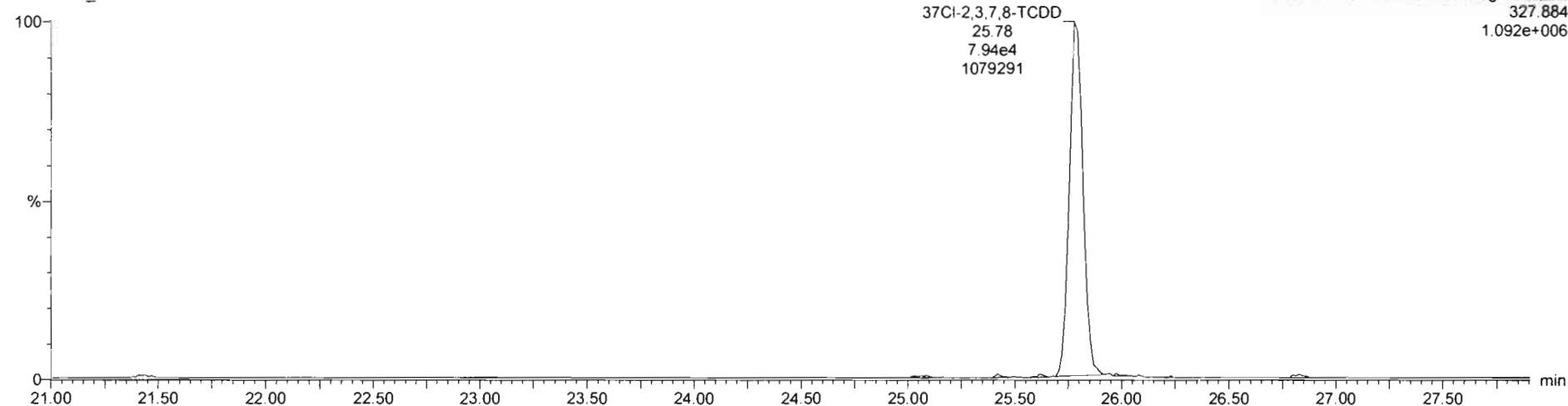
Last Altered: Tuesday, March 17, 2020 15:35:22 Pacific Daylight Time

Printed: Tuesday, March 17, 2020 15:35:32 Pacific Daylight Time

Name: 200317R1_2, Date: 17-Mar-2020, Time: 13:52:29, ID: ST200317R1_2 1613 CS3 19L2305, Description: 1613 CS3-19L2305

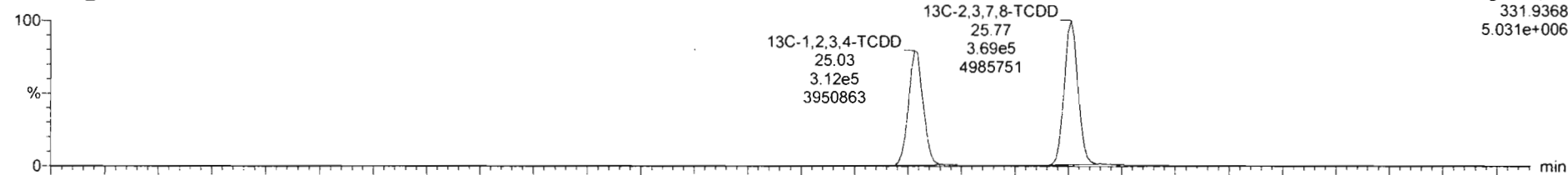
37Cl-2,3,7,8-TCDD

200317R1_2

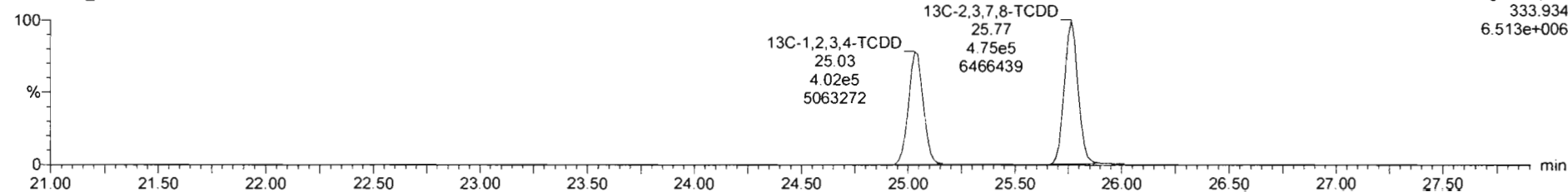


13C-1,2,3,4-TCDD

200317R1_2



200317R1_2



Dataset: Untitled

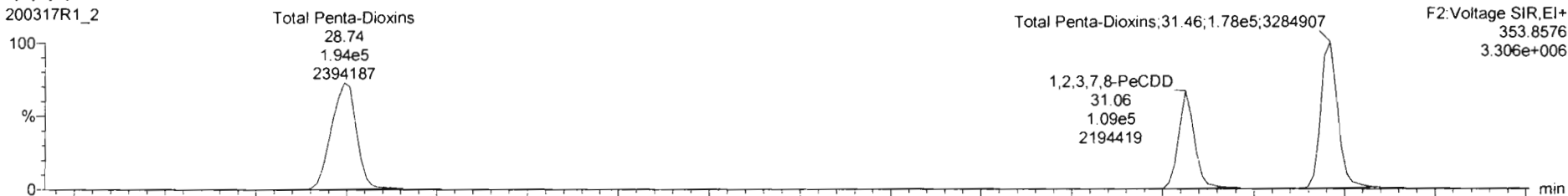
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Printed: Tuesday, March 17, 2020 15:35:32 Pacific Daylight Time

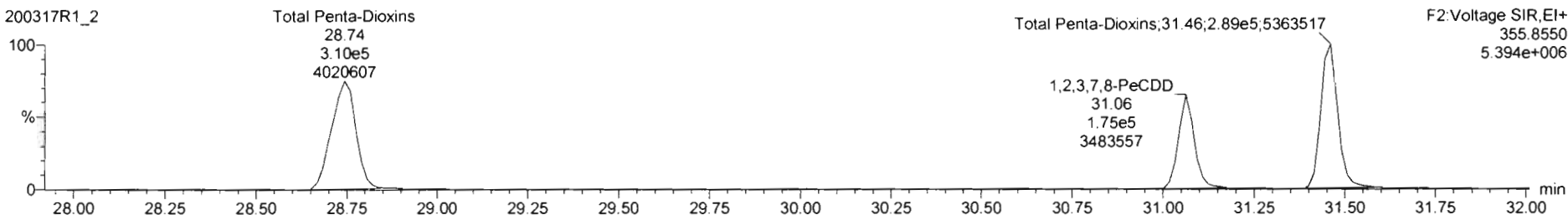
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1,2,3,7,8-PeCDD

200317R1_2

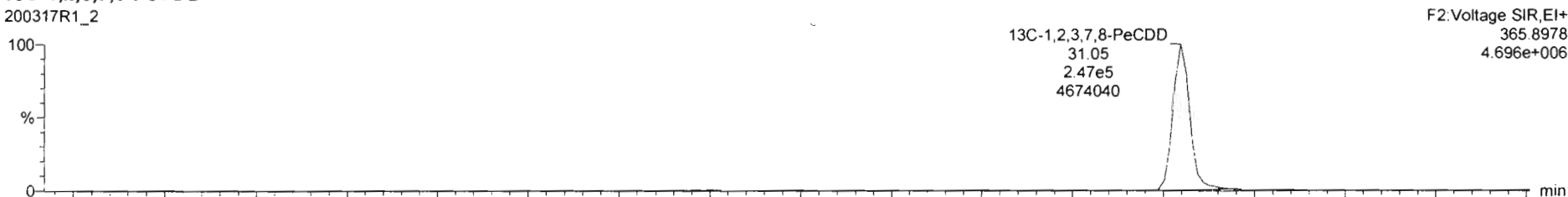


200317R1_2

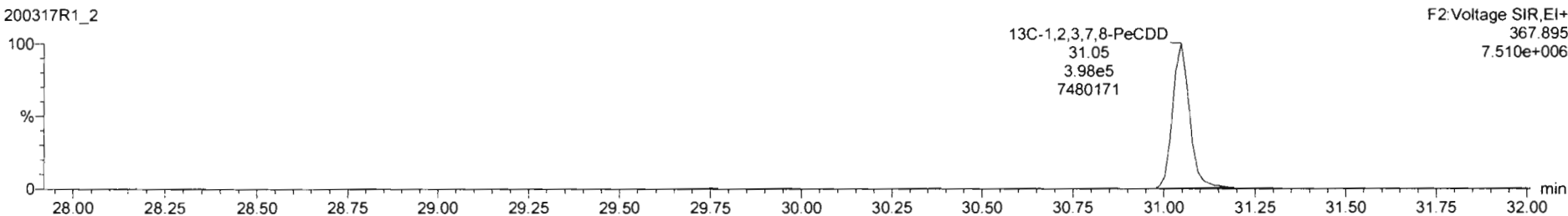


13C-1,2,3,7,8-PeCDD

200317R1_2



200317R1_2



Dataset: Untitled

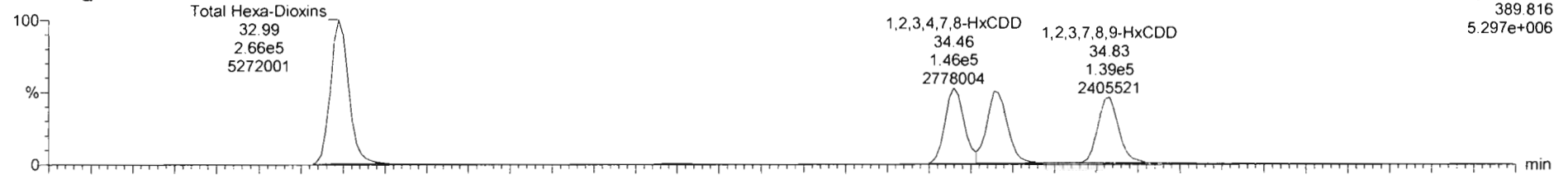
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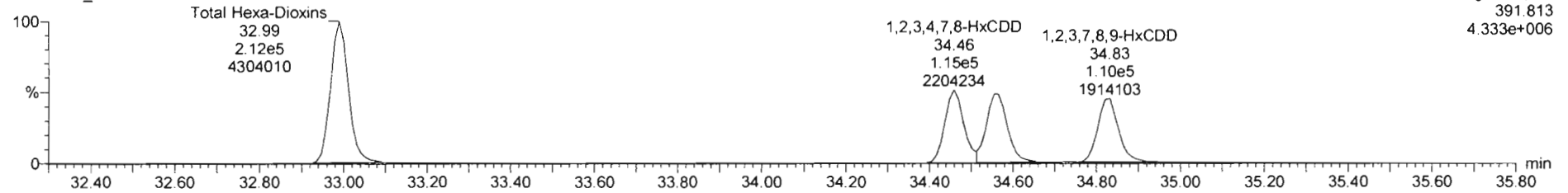
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1,2,3,4,7,8-HxCDD

200317R1_2

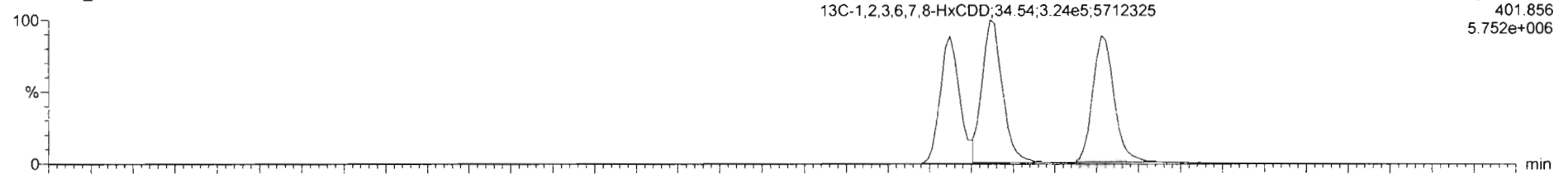


200317R1_2

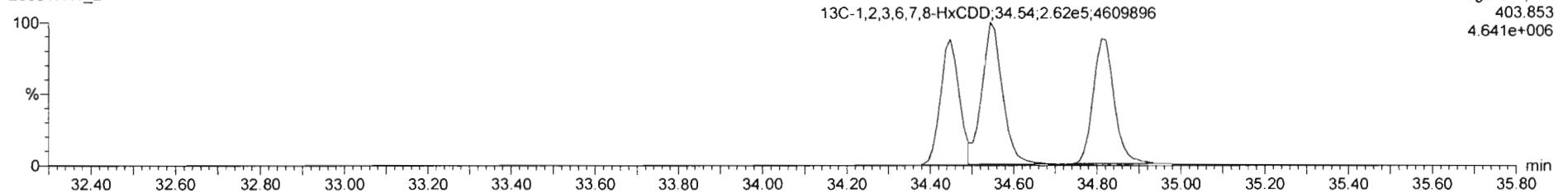


13C-1,2,3,4,7,8-HxCDD

200317R1_2



200317R1_2



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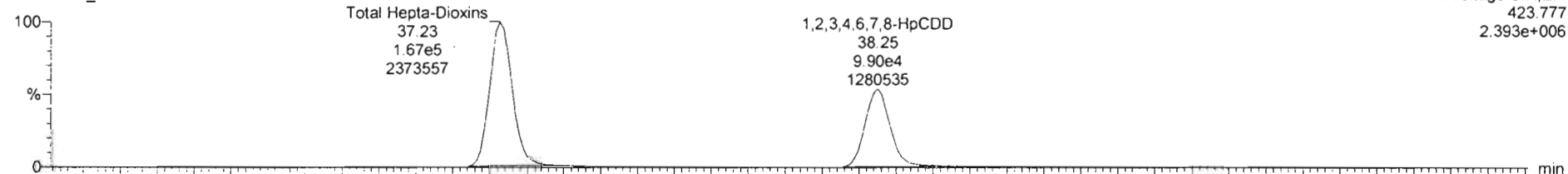
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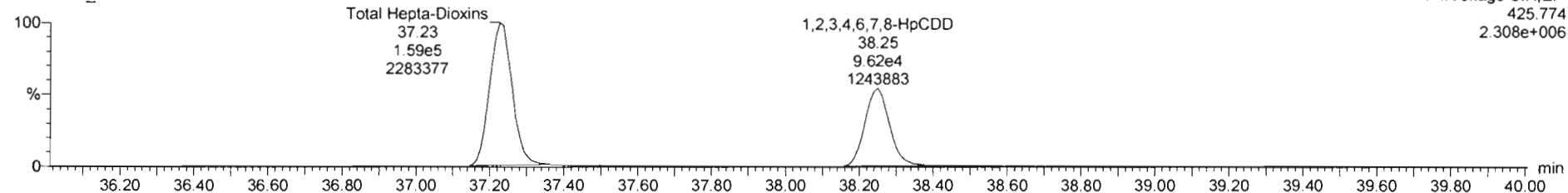
ID: ST2 Name: 200317R1_2, Date: 17-Mar-2020, Time: 13:52:29, ID: ST200317R1_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200317R1_2

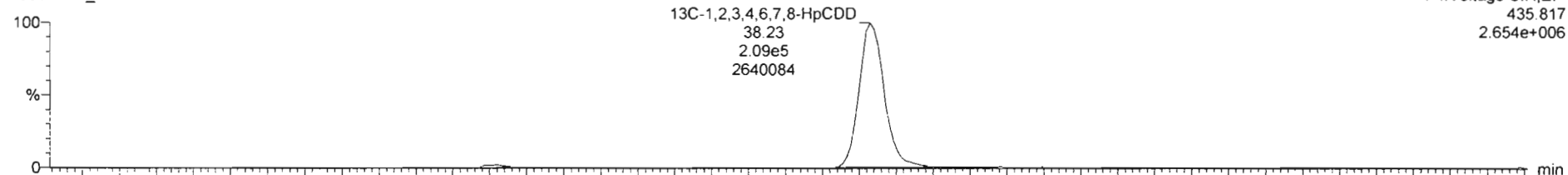


200317R1_2

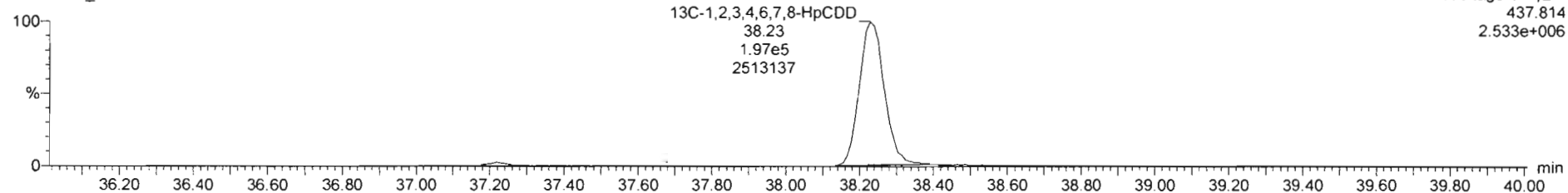


13C-1,2,3,4,6,7,8-HpCDD

200317R1_2



200317R1_2

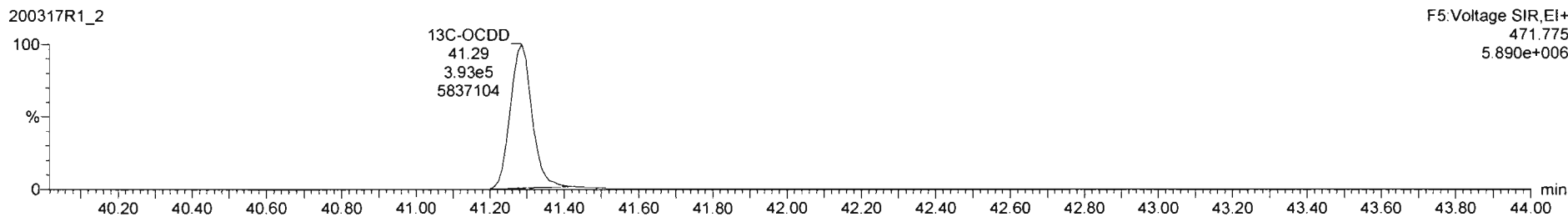
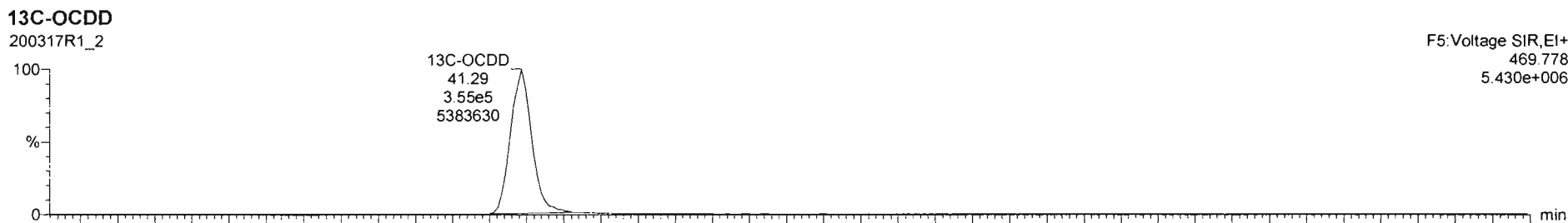
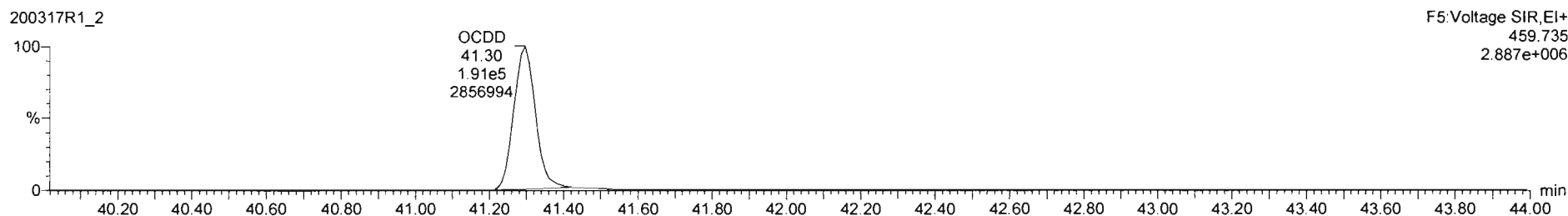
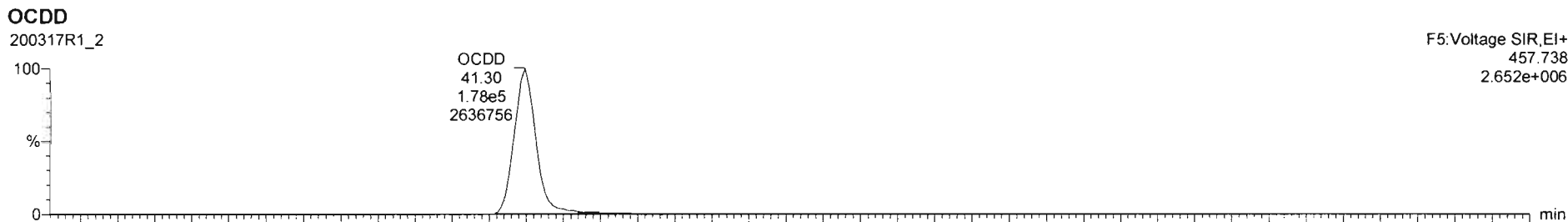


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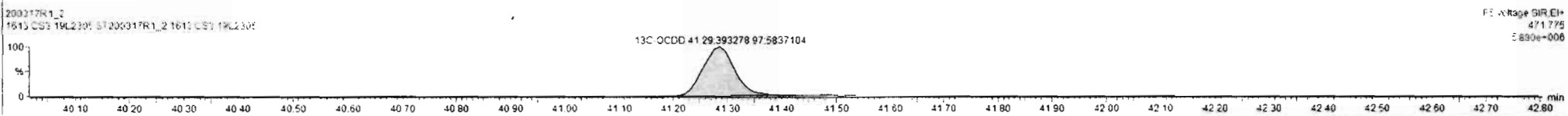
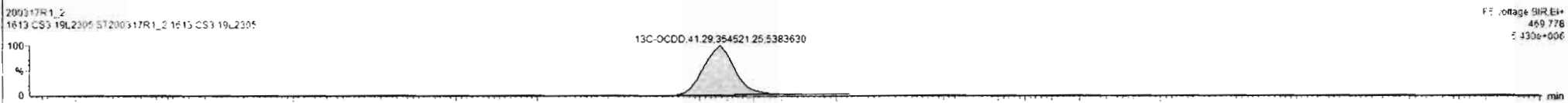
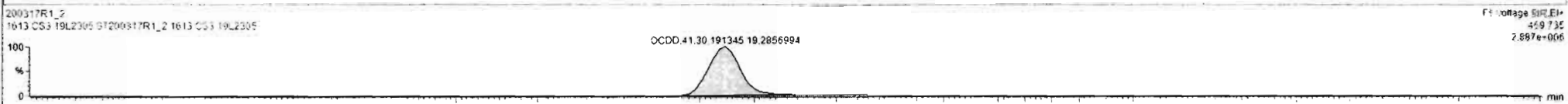
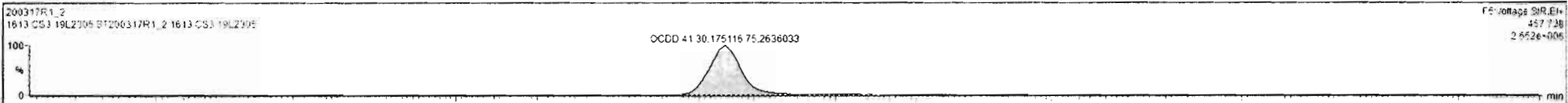
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Printed: Tuesday, March 17, 2020 15:35:32 Pacific Daylight Time

Printed: Tuesday, March 17, 2020 15:35:32 Pacific Daylight Time

Sample Name: 200317R1_2; Date: 17-Mar-2020, Time: 13:52:29, ID: ST200317R1_2 1613 CS3 19L2305; Description: 1613 CS3 19L2305



#	Name	Resp	IS Resp	Pred RA	RA	nfy	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1,2,3,7,8-TCDD	7.50e4	8.44e5	0.77	0.78	NO	0.9835	25.80	25.78	NO	1.001	1.001	9.03	90.3	NO
2	1,2,3,7,8-PeCDD	2.85e5	6.45e5	0.63	0.62	NO	0.9212	31.07	31.06	NO	1.001	1.000	47.9	95.8	NO
3	1,2,3,4,7,8-HxCDD	2.61e5	4.79e5	1.24	1.27	NO	1.1325	34.46	34.46	NO	1.000	1.000	48.1	96.2	NO
4	1,2,3,6,7,8-HxCDD	2.71e5	5.96e5	1.24	1.25	NO	0.9844	34.54	34.56	NO	1.000	1.000	47.0	94.0	NO
5	1,2,3,7,8,9-HxCDD	2.48e5	5.35e5	1.24	1.26	NO	0.9674	34.82	34.83	NO	1.000	1.001	48.0	96.0	NO
6	1,2,3,4,6,7,8-HpCDD	1.95e5	4.06e5	1.04	1.03	NO	1.0061	38.24	38.25	NO	1.000	1.001	47.8	95.6	NO
7	OCDD	3.69e5	7.48e5	0.89	0.92	NO	1.0515	41.29	41.30	NO	1.000	1.000	93.2	93.2	NO
8	1,2,3,7,8-TCDF	9.38e4	1.12e6	0.77	0.75	NO	0.9154	24.79	24.78	NO	1.001	1.001	9.14	91.4	NO
9	1,2,3,7,8-PeCDF	4.26e5	9.43e5	1.55	1.54	NO	0.9594	29.73	29.72	NO	1.001	1.000	48.2	96.4	NO
10	1,2,3,4,7,8-PeCDF	4.35e5	8.97e5	1.55	1.55	NO	1.0035	30.76	30.74	NO	1.001	1.000	48.4	96.7	NO
11	1,2,3,4,7,8-HxCDF	3.28e5	6.74e5	1.24	1.22	NO	1.0381	33.60	33.61	NO	1.000	1.000	46.8	93.6	NO
12	1,2,3,6,7,8-HxCDF	3.64e5	7.46e5	1.24	1.23	NO	1.0126	33.72	33.72	NO	1.000	1.000	46.2	96.5	NO
13	1,2,3,4,6,7,8-HxCDF	3.54e5	6.82e5	1.24	1.22	NO	1.0920	34.31	34.29	NO	1.001	1.000	47.5	95.0	NO
14	1,2,3,7,8,9-HxCDF	2.75e5	5.79e5	1.24	1.25	NO	1.0268	35.15	35.16	NO	1.000	1.000	46.3	92.6	NO
15	1,2,3,4,6,7,8-HpCDF	2.53e5	5.23e5	1.04	1.01	NO	1.0483	36.88	36.86	NO	1.001	1.000	46.1	92.3	NO
16	1,2,3,4,7,8,9-HpCDF	2.00e5	3.50e5	1.04	1.04	NO	1.2099	36.89	36.90	NO	1.000	1.000	47.1	94.3	NO
17	OCDF	4.24e5	9.48e5	0.89	0.89	NO	0.9468	41.47	41.48	NO	1.000	1.000	94.5	94.5	NO
18	13C-2,3,7,8-TCDD	8.44e5	7.14e5	0.77	0.78	NO	1.1842	25.75	25.76	NO	1.025	1.029	99.9	99.9	NO
19	13C-1,2,3,7,8-PeCDD	6.45e5	7.14e5	0.62	0.62	NO	0.8644	30.94	31.05	NO	1.236	1.240	105	105	NO
20	13C-1,2,3,4,7,8-HxCDD	4.79e5	6.77e5	1.24	1.30	NO	0.7535	34.45	34.45	NO	1.014	1.014	93.7	93.7	NO
21	13C-1,2,3,6,7,8-HxCDD	5.86e5	6.77e5	1.24	1.24	NO	0.9254	34.56	34.54	NO	1.017	1.017	92.6	93.6	NO

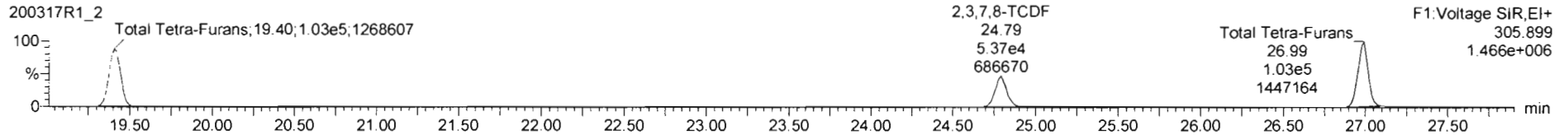
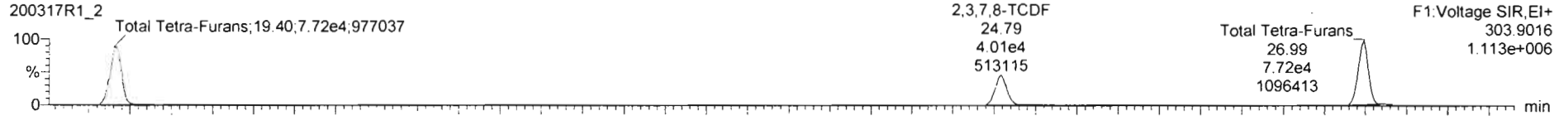


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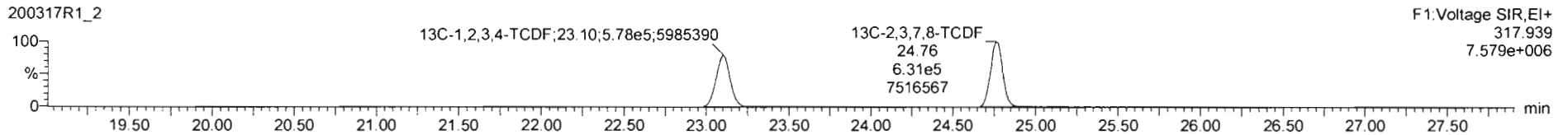
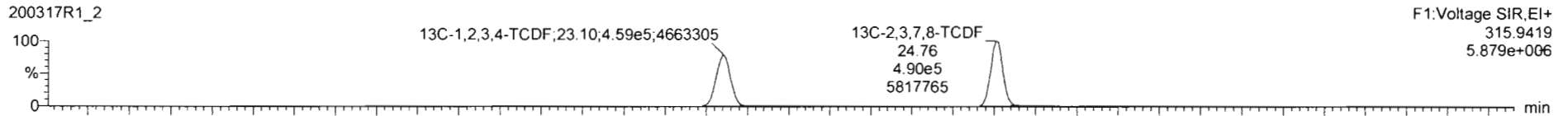
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Printed: Tuesday, March 17, 2020 15:35:32 Pacific Daylight Time

9:11:51 AM ID: ST: Name: 200317R1_2, Date: 17-Mar-2020, Time: 13:52:29, ID: ST200317R1_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

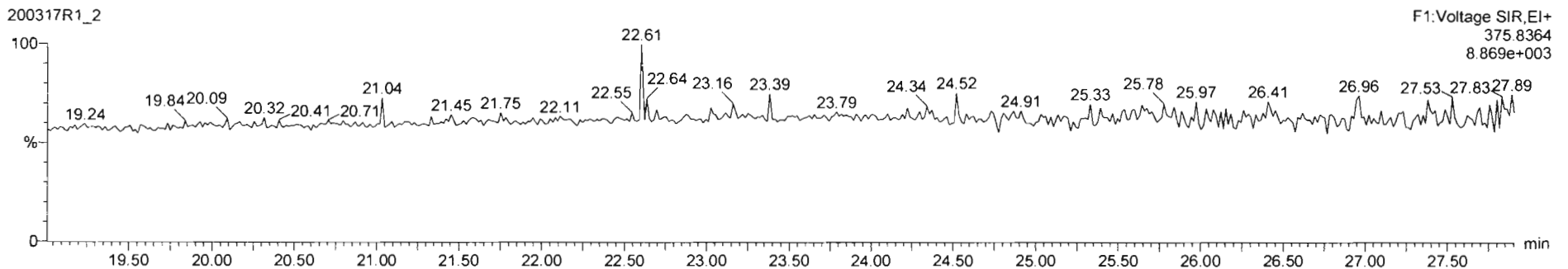
2,3,7,8-TCDF



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



DPE1



Dataset: Untitled

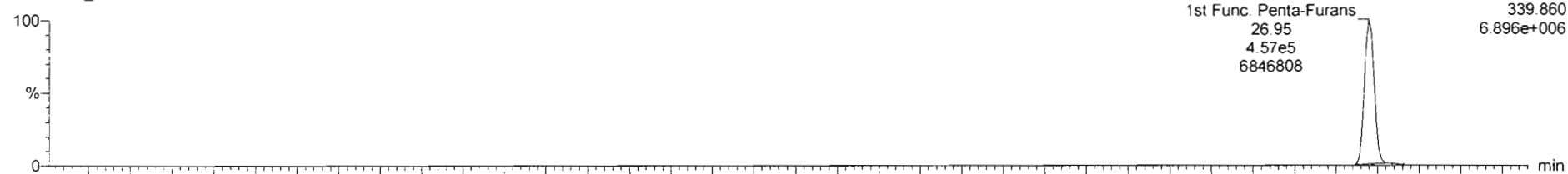
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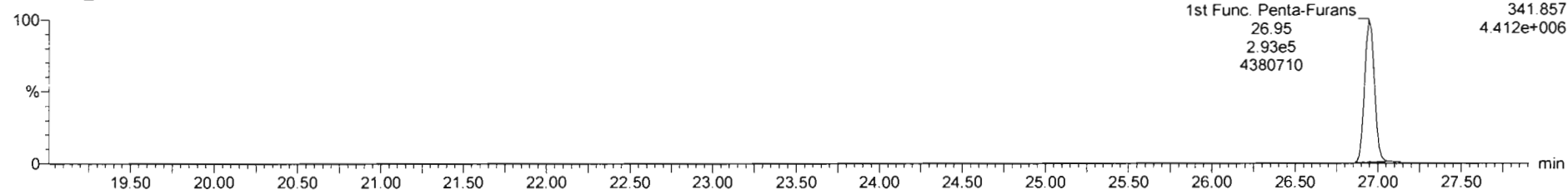
Name: 200317R1_2, Date: 17-Mar-2020, Time: 13:52:29, ID: ST200317R1_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1st Func. Penta-Furans

200317R1_2

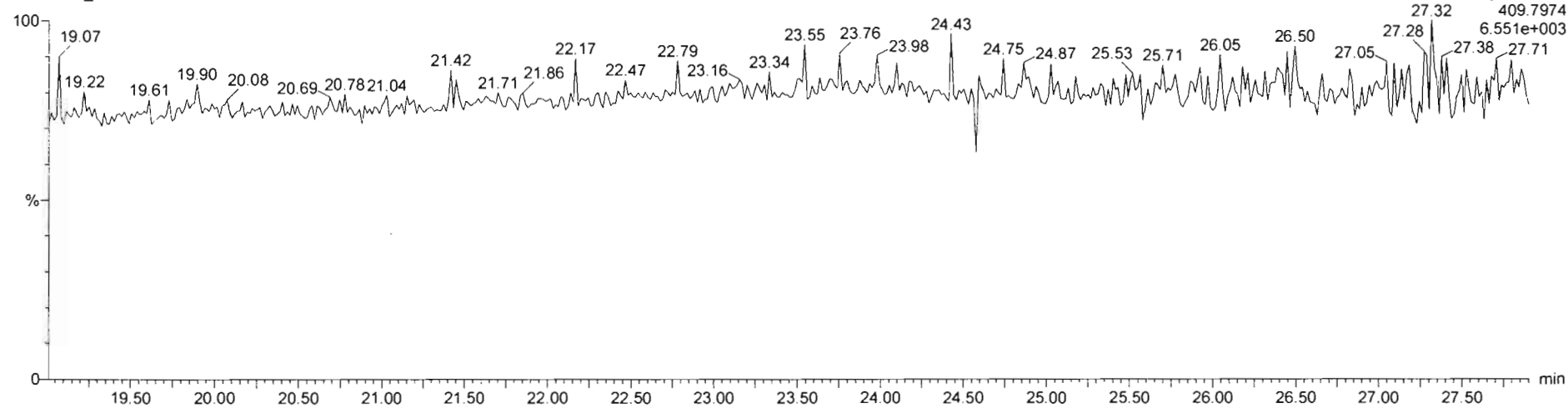


200317R1_2



DPE6

200317R1_2



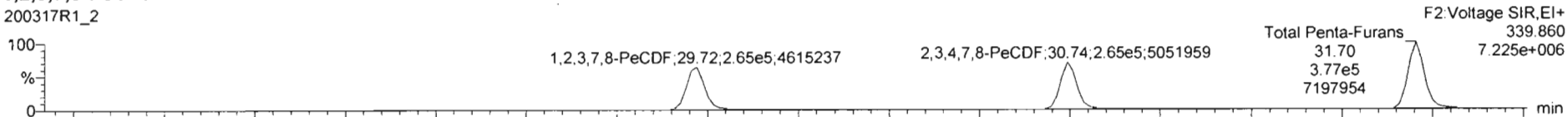
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Printed: Tuesday, March 17, 2020 15:35:32 Pacific Daylight Time

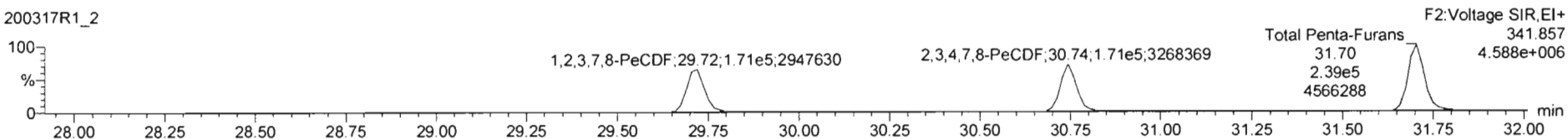
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1,2,3,7,8-PeCDF

200317R1_2

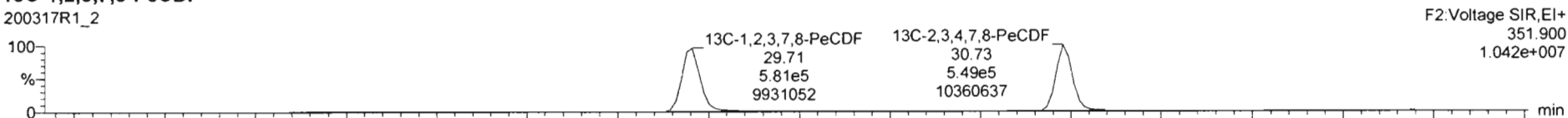


200317R1_2

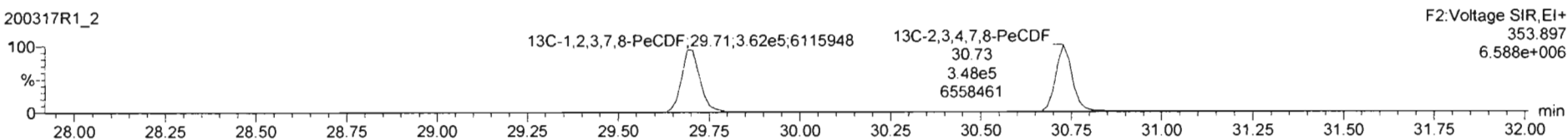


13C-1,2,3,7,8-PeCDF

200317R1_2

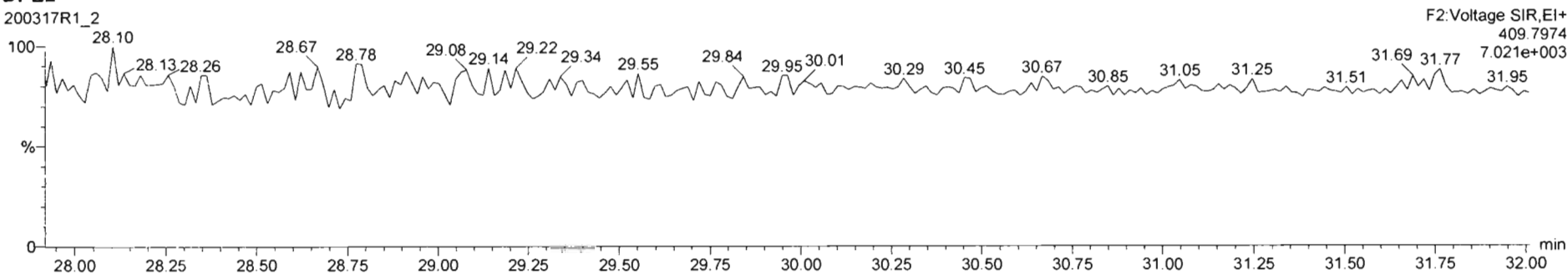


200317R1_2



DPE2

200317R1_2

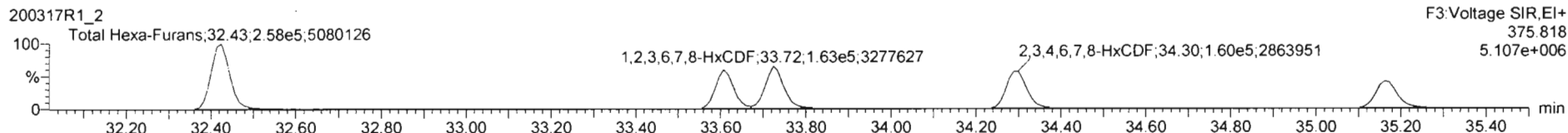
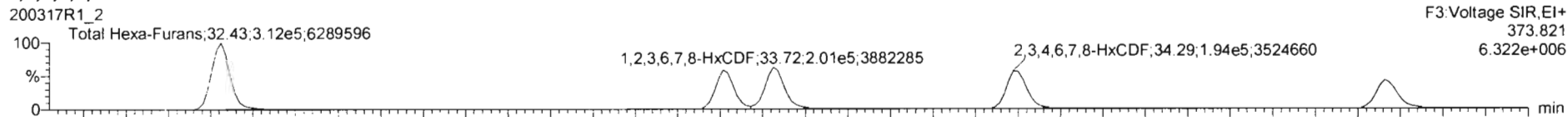


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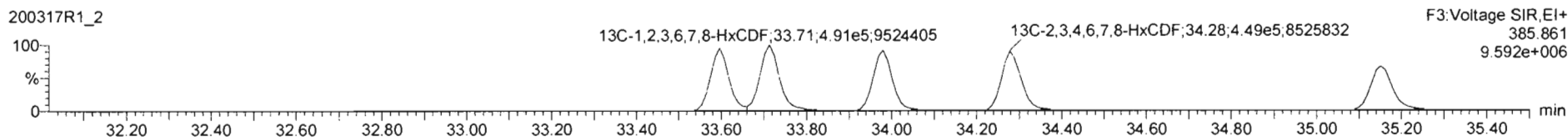
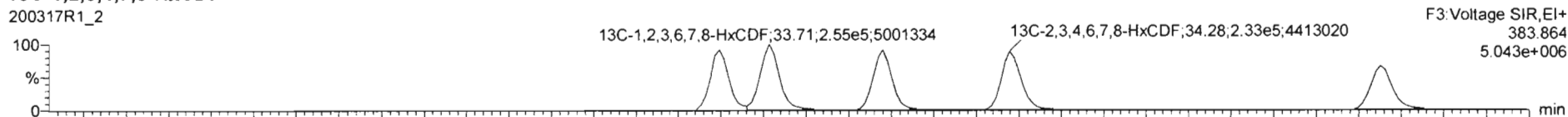
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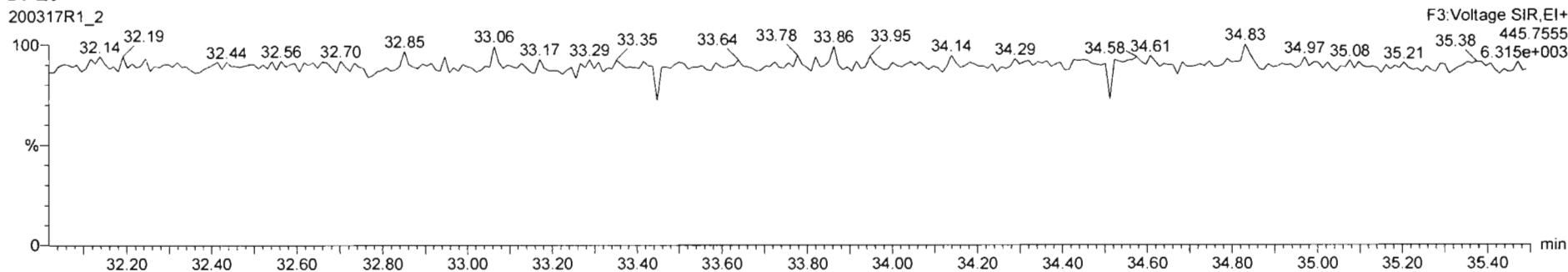
1,2,3,4,7,8-HxCDF



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



DPE3



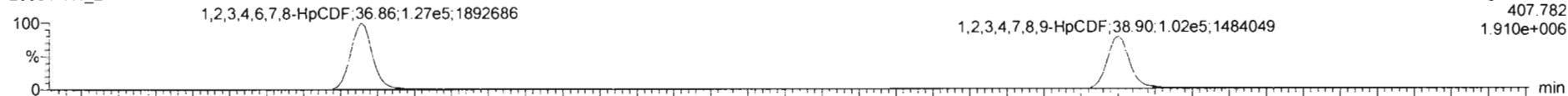
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Name: 200317R1_2, Date: 17-Mar-2020, Time: 13:52:29, ID: ST200317R1_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

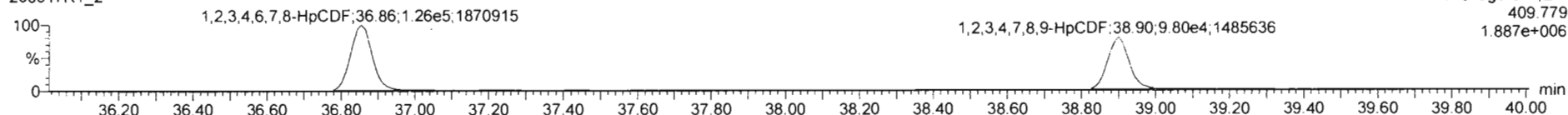
1,2,3,4,6,7,8-HpCDF

200317R1_2



F4: Voltage SIR, EI+
407.782
1.910e+006

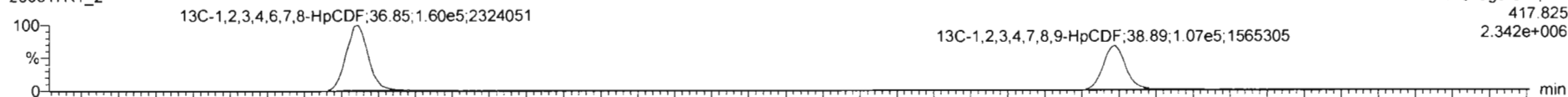
200317R1_2



F4: Voltage SIR, EI+
409.779
1.887e+006

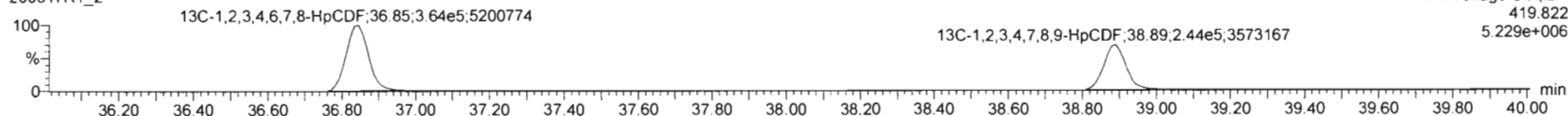
13C-1,2,3,4,6,7,8-HpCDF

200317R1_2



F4: Voltage SIR, EI+
417.825
2.342e+006

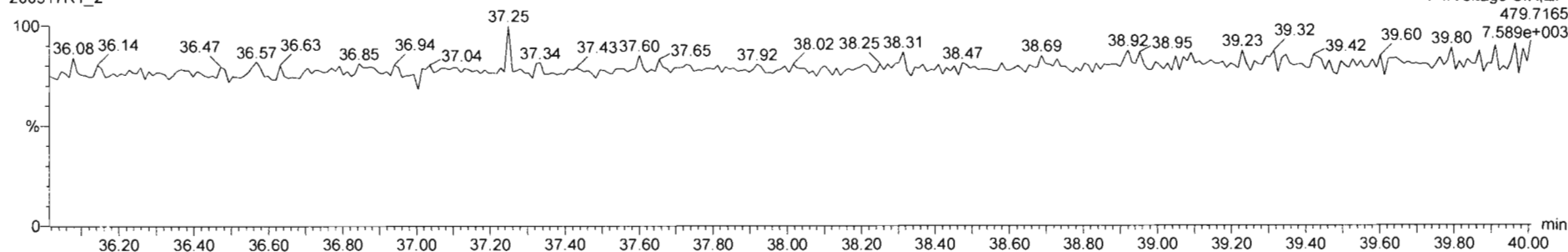
200317R1_2



F4: Voltage SIR, EI+
419.822
5.229e+006

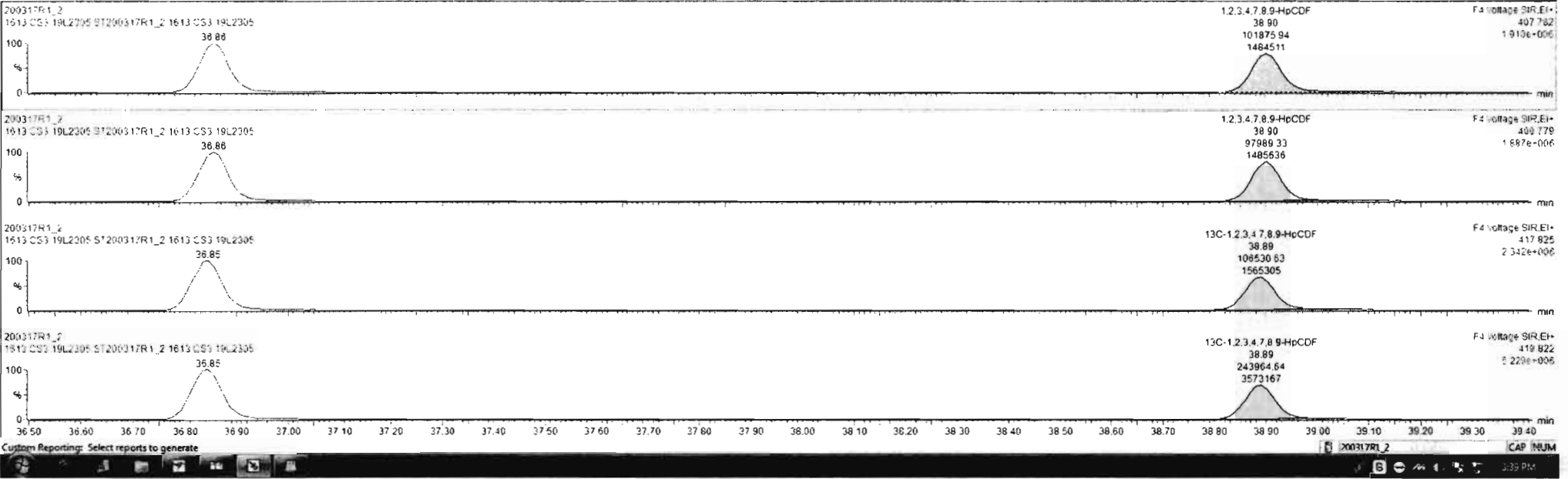
DPE4

200317R1_2



F4: Voltage SIR, EI+
479.7165
7.589e+003

#	Name	Rbsp	S 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	7.50e4	8.44e5	0.77	0.78	NO	0.9835	25.80	25.78	NO	1.001	1.001	9.03	90.3	NO
2	1,2,3,7,8-PeCDD	2.85e5	6.45e5	0.63	0.62	NO	0.9212	31.07	31.06	NO	1.001	1.000	47.9	95.8	NO
3	1,2,3,4,7,8-HxCDD	2.61e5	4.79e5	1.24	1.27	NO	1.1325	34.46	34.46	NO	1.006	1.000	48.1	96.2	NO
4	1,2,3,6,7,8-HxCDD	2.71e5	5.86e5	1.24	1.25	NO	0.8844	34.54	34.56	NO	1.000	1.000	47.0	94.0	NO
5	1,2,3,7,8,9-HxCDD	2.48e5	5.35e5	1.24	1.26	NO	0.9674	34.82	34.83	NO	1.000	1.001	48.0	96.0	NO
6	1,2,3,4,6,7,8-HpCDD	1.95e5	4.08e5	1.04	1.03	NO	1.0061	36.24	36.25	NO	1.000	1.001	47.8	95.8	NO
7	OCDD	3.66e5	7.42e5	0.89	0.92	NO	1.0515	41.29	41.30	NO	1.000	1.000	93.2	93.2	NO
8	2,3,7,8-TCDF	9.38e4	1.12e6	0.77	0.75	NO	0.9154	24.79	24.79	NO	1.001	1.001	9.14	91.4	NO
9	1,2,3,7,8-PeCDF	4.36e5	9.43e5	1.55	1.54	NO	0.9594	29.73	29.72	NO	1.001	1.000	48.2	96.4	NO
10	2,3,4,7,8-PeCDF	4.35e5	8.97e5	1.55	1.55	NO	1.0035	30.76	30.74	NO	1.001	1.000	48.4	96.7	NO
11	1,2,3,4,7,8-HxCDF	3.28e5	6.74e5	1.24	1.23	NO	1.0381	33.60	33.61	NO	1.000	1.000	46.8	93.6	NO
12	1,2,3,6,7,8-HxCDF	3.64e5	7.46e5	1.24	1.22	NO	1.0126	33.72	33.72	NO	1.006	1.000	48.2	96.5	NO
13	2,3,4,6,7,8-HxCDF	3.54e5	8.82e5	1.24	1.22	NO	1.0920	34.31	34.29	NO	1.001	1.000	47.5	95.0	NO
14	1,2,3,7,8,9-HxCDF	2.75e5	5.79e5	1.24	1.25	NO	1.0268	35.15	35.15	NO	1.006	1.000	46.3	92.6	NO
15	1,2,3,4,6,7,8-HpCDF	2.53e5	5.23e5	1.04	1.01	NO	1.0483	36.88	36.86	NO	1.001	1.000	46.1	92.3	NO
16	1,2,3,4,7,8,9-HpCDF	2.00e5	3.50e5	1.04	1.04	NO	1.2099	38.89	38.80	NO	1.000	1.000	47.1	94.3	NO
17	OCDF	4.24e5	9.48e5	0.89	0.89	NO	0.9468	41.47	41.48	NO	1.000	1.000	94.5	94.5	NO
18	13C-2,3,7,8-TCDD	8.44e5	7.14e5	0.77	0.78	NO	1.1642	25.75	25.76	NO	1.029	1.029	99.9	99.9	NO
19	13C-1,2,3,7,8-PeCDD	6.45e5	7.14e5	0.63	0.62	NO	0.8644	30.94	31.05	NO	1.236	1.240	105	105	NO
20	13C-1,2,3,4,7,8-HxCDD	4.79e5	8.77e5	1.24	1.30	NO	0.7539	34.45	34.45	NO	1.014	1.014	93.7	93.7	NO
21	13C-1,2,3,6,7,8-HxCDD	5.86e5	6.77e5	1.24	1.24	NO	0.5254	34.56	34.54	NO	1.017	1.017	92.8	93.6	NO

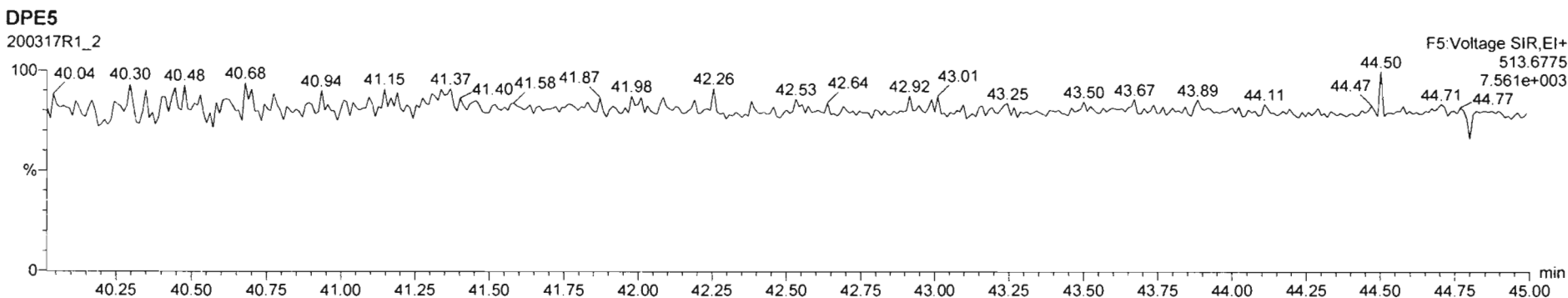
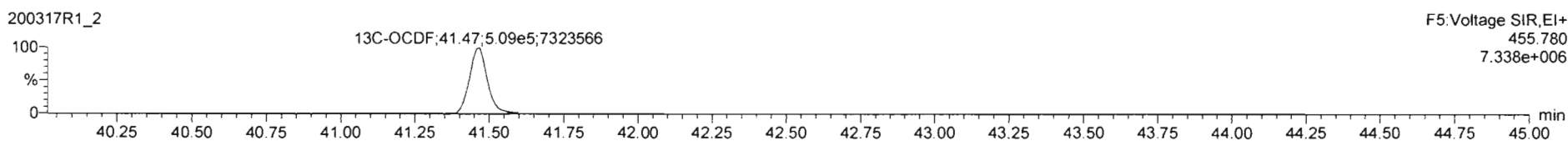
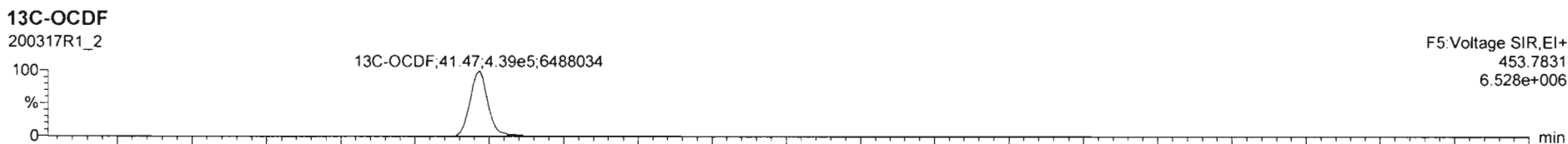
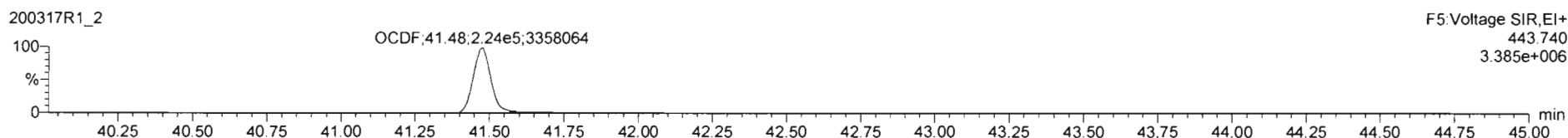
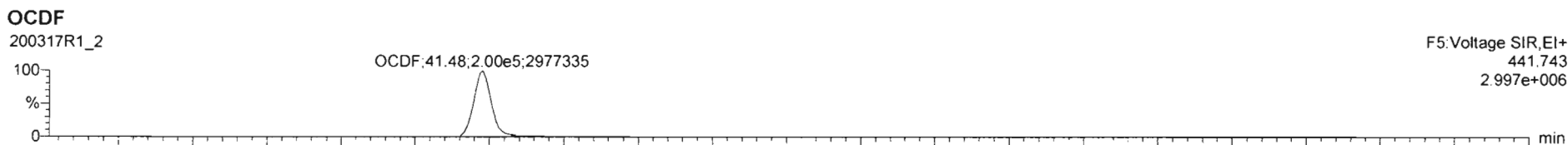


Dataset: Untitled

Last Altered: Tuesday, March 17, 2020 15:35:22 Pacific Daylight Time
Printed: Tuesday, March 17, 2020 15:35:32 Pacific Daylight Time

FILE: ...
PAGE: 12

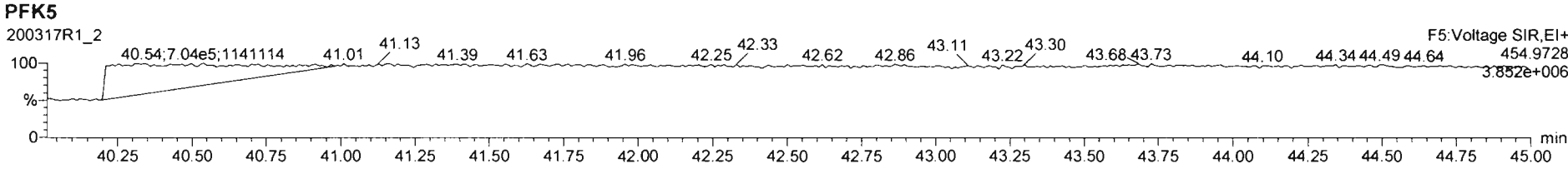
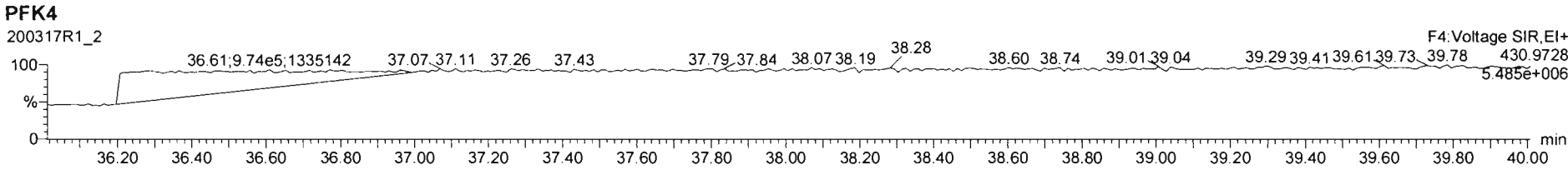
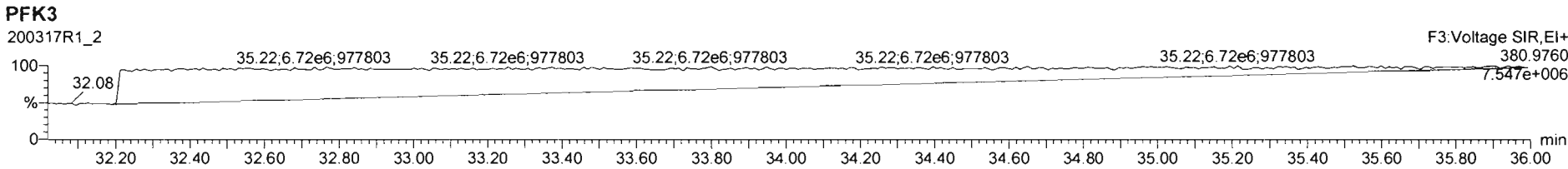
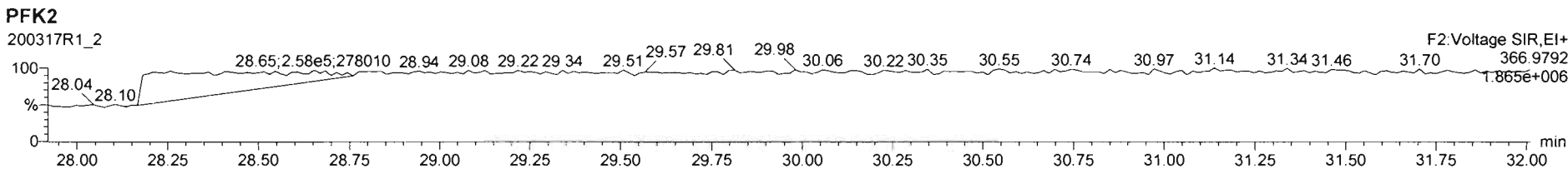
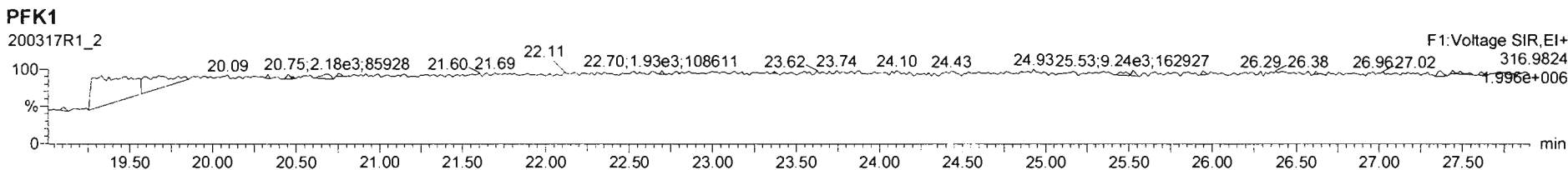
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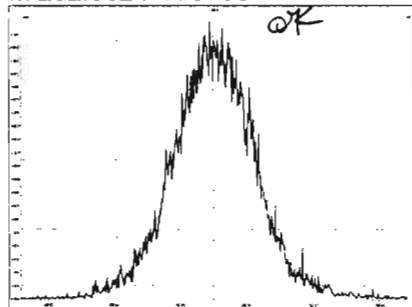
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Sample Name: 200317R1_2, Date: 17-Mar-2020, Time: 13:52:29, ID: ST200317R1_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

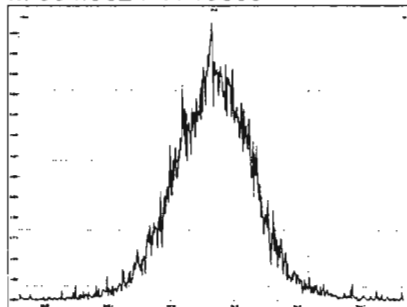


Printed: Wednesday, March 18, 2020 01:55:48 Pacific Daylight Time

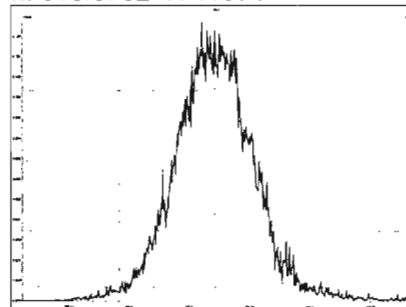
M 292.9824 R 9736



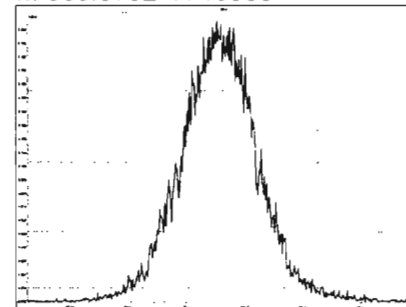
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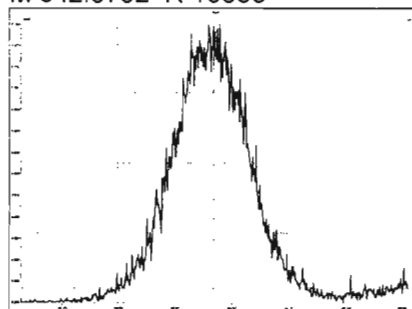
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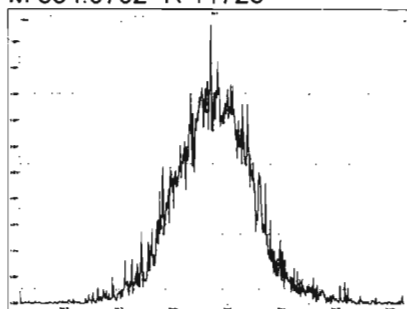
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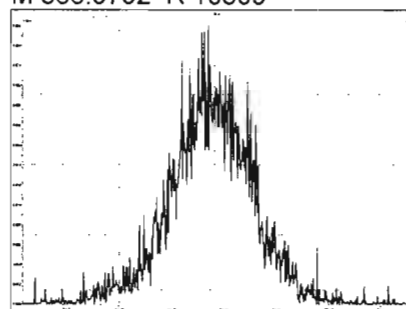
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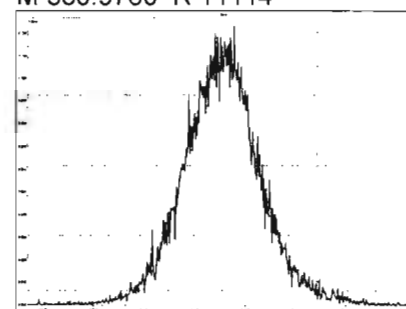
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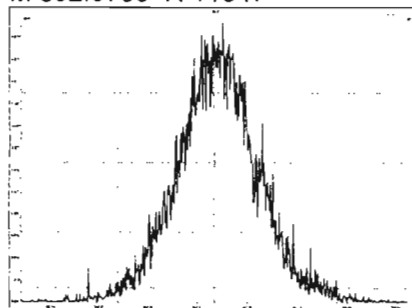
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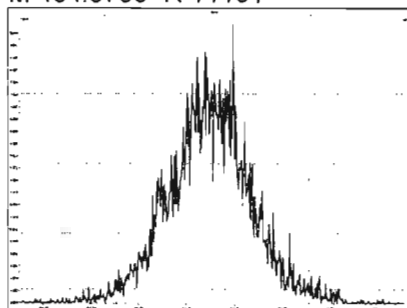
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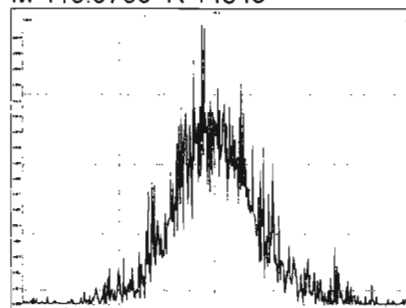
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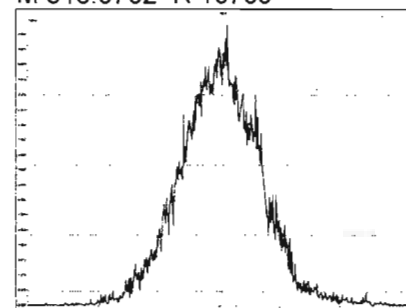
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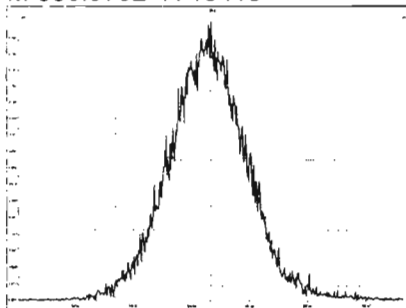


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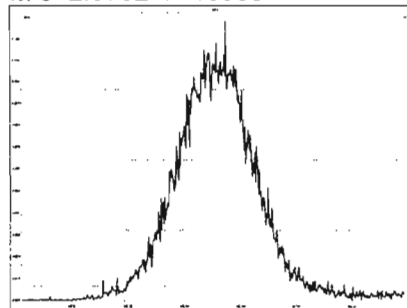


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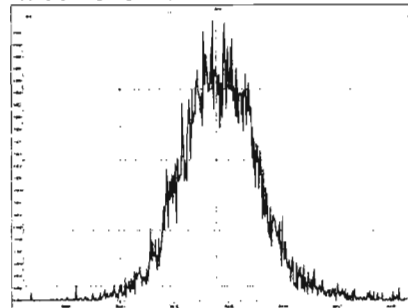
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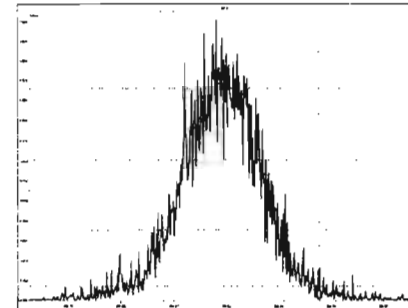
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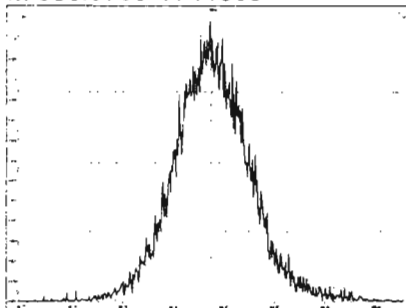
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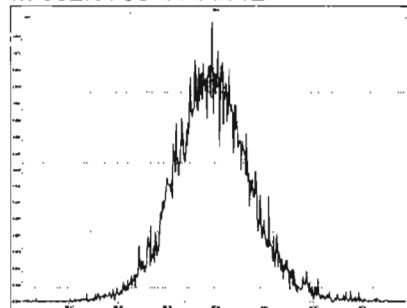
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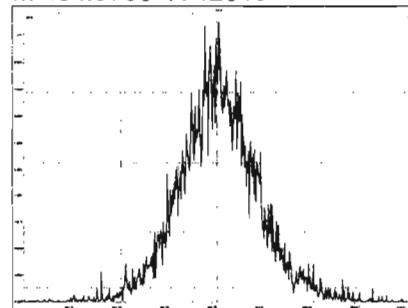
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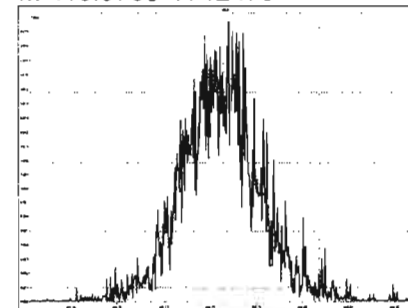
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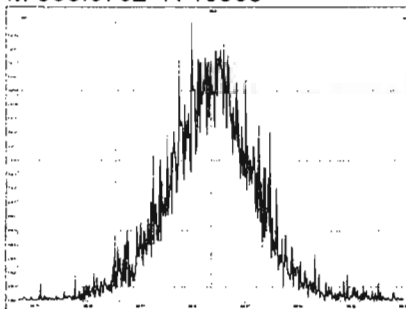
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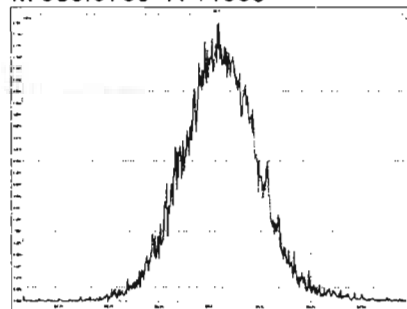
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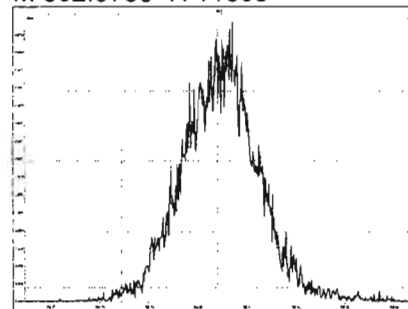
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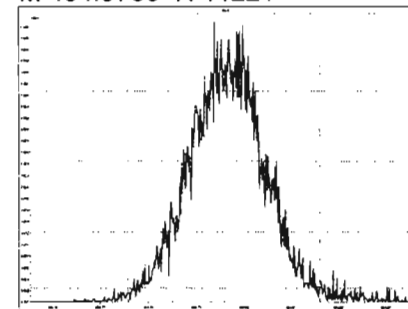
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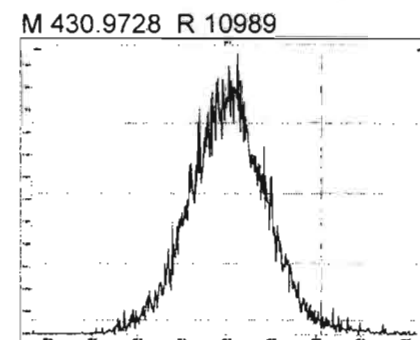
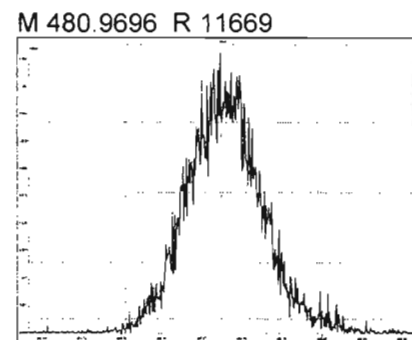
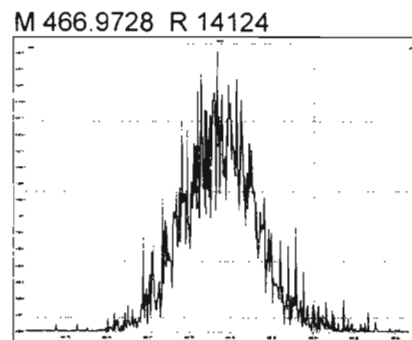
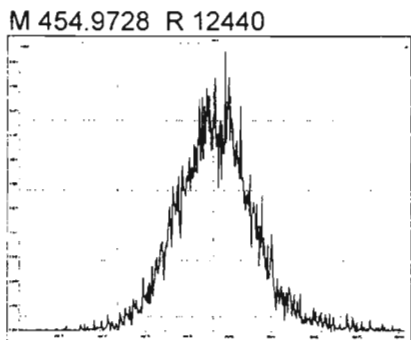
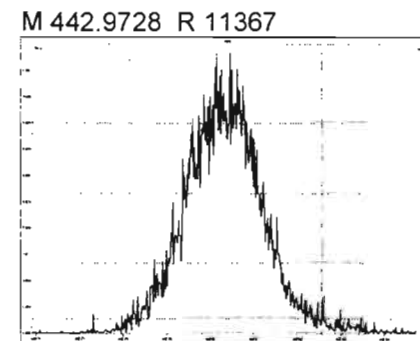
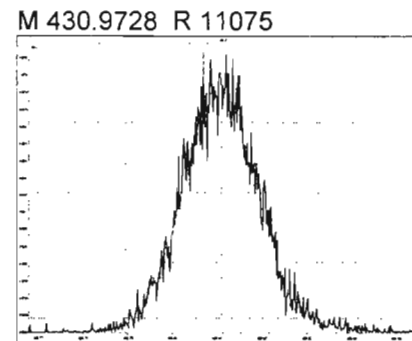
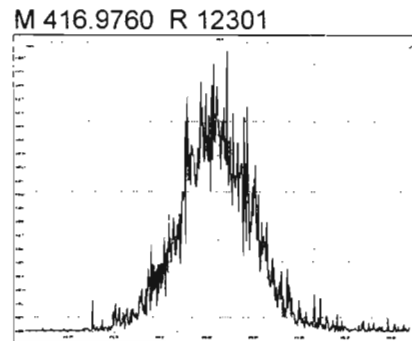
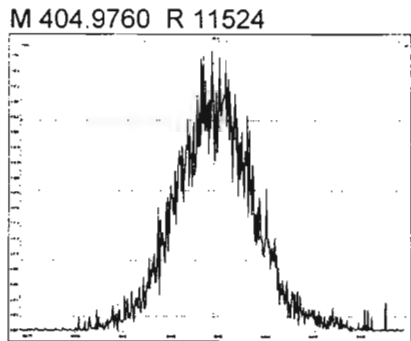
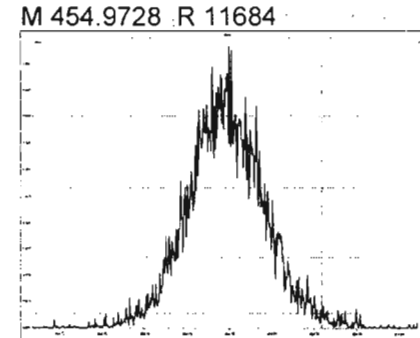
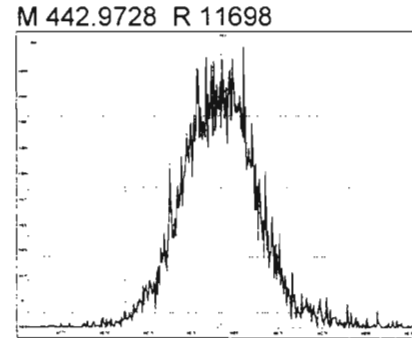
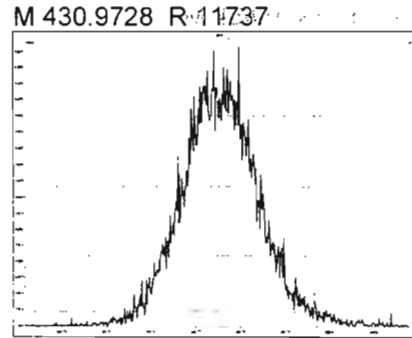
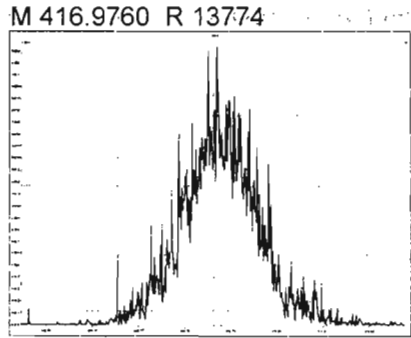
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M 404.9760 R 11221

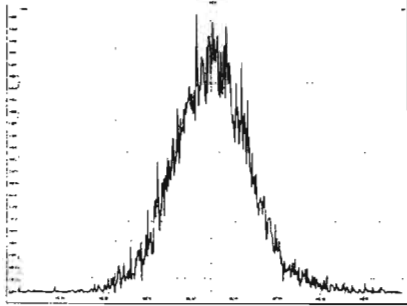


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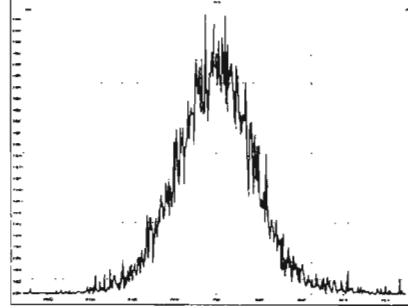


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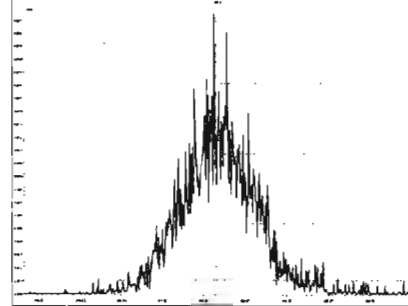
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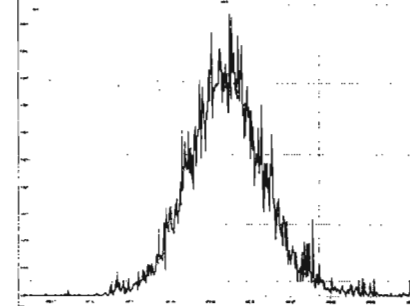
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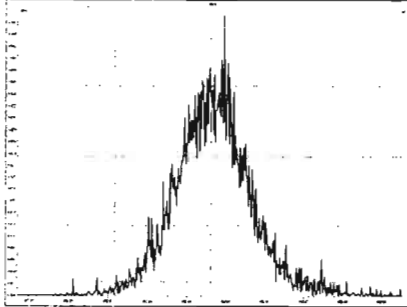
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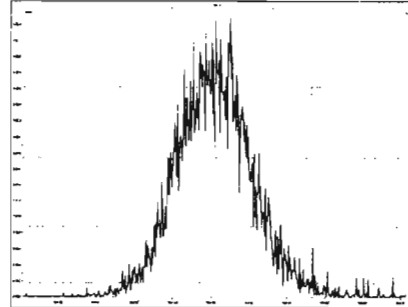
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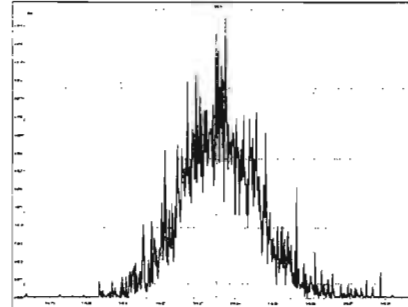
M 492.9696 R 12641



M 504.9696 R 12590



M 516.9697 R 12771



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200324D1-1

Reviewed By: 0703/25/2020
Initials & Date

End Calibration ID: NA

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

Mass resolution \geq

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

	<u>Beg.</u>	<u>End</u>
Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> NA
GC Break <20%		<input checked="" type="checkbox"/> NA

8280 CS1 End Standard:

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

NA

Comments:

Dataset: U:\VG7.PRO\Results\200324D1\200324D1_2.qld

Last Altered: Tuesday, March 24, 2020 11:18:06 Pacific Daylight Time

Printed: Tuesday, March 24, 2020 11:19:07 Pacific Daylight Time

DB 3/24/20

0703/25/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200324D1_2, Date: 24-Mar-2020, Time: 10:54:51, ID: ST200324D1-1 1613 CS3 19L2305, Description: 1613 CS3 19I1604

#	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	6.64e3	0.81	NO	0.982	1.000	17.794	17.79	1.000	1.001	8.7672	87.7 84 -120	0.175	8.77
2	2 13C-2,3,7,8-TCDF	7.71e4	0.77	NO	1.08	1.000	17.782	17.77	1.133	1.138	100.47	10071-140	0.609	
3	3 13C-1,2,3,4-TCDF	7.09e4	0.80	NO	1.00	1.000	15.660	15.62	1.000	1.000	100.00	100	0.659	

Dataset: Untitled

Last Altered: Wednesday, March 25, 2020 09:26:20 Pacific Daylight Time

Printed: Wednesday, March 25, 2020 09:26:37 Pacific Daylight Time

Method: C:\MassLynx\Default.PROMethDB\tcdf.mdb 23 Mar 2020 11:10:19

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

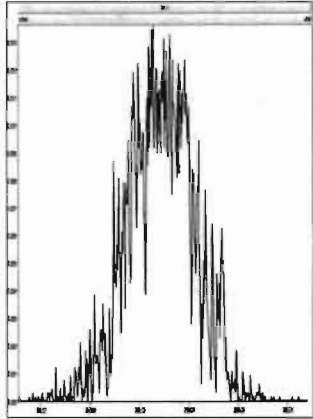
Compound name: 2,3,7,8-TCDF

	Name	ID	Acq.Date	Acq.Time
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2	200324D1_2	ST200324D1-1 1613 CS3 19L2305	24-Mar-20	10:54:51
3	200324D1_3	SOLVENT BLANK	24-Mar-20	11:26:29
4	200324D1_4	2000144-12RE1 PDI-082SC-A-05-06-191002 ...	24-Mar-20	11:58:14
5	200324D1_5	2000143-04RE1 PDI-031SC-A-03-04-191017 ...	24-Mar-20	12:29:54
6	200324D1_6	2000143-19RE1 PDI-049SC-A-02-03-191015 ...	24-Mar-20	13:01:37
7	200324D1_7	2000143-19RE1 PDI-049SC-A-02-03-191015 ...	24-Mar-20	13:33:23
8	200324D1_8	1903654-05RE4 PDI-075SC-B-00-02-191013 ...	24-Mar-20	14:05:06
9	200324D1_9	1903654-08RE4 PDI-075SC-B-06-08-191013 ...	24-Mar-20	14:36:46
10	200324D1_10	1903654-11RE4 PDI-076SC-B-05-07-191013 ...	24-Mar-20	15:08:29
11	200324D1_11	1903827-05RE4 PDI-062SC-B-00-02-191023 ...	24-Mar-20	15:40:10
12	200324D1_12	1904161-16RE6 PDI-066SC-A-06-07-191011 ...	24-Mar-20	16:11:48
13	200324D1_13	2000195-05RE1 PDI-074SC-A-06-07-191012 ...	24-Mar-20	16:43:30
14	200324D1_14	2000195-07RE1 PDI-076SC-A-08-09-191013 ...	24-Mar-20	17:15:12
15	200324D1_15	2000195-08RE1 PDI-076SC-A-09-10-191013 ...	24-Mar-20	17:46:53
16	200324D1_16	2000195-09RE1 PDI-100SC-J-04-05-190926 ...	24-Mar-20	18:18:36

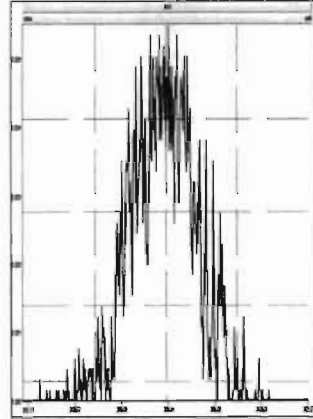
File: Experiment: tcdf_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, March 24, 2020 10:23:51 Pacific Daylight Time

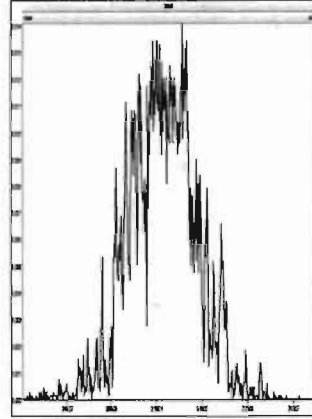
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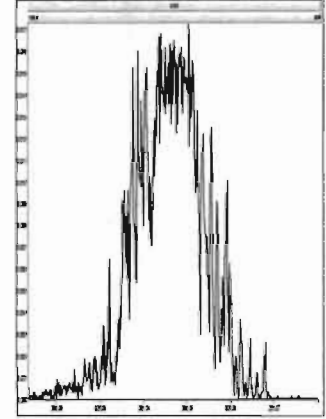
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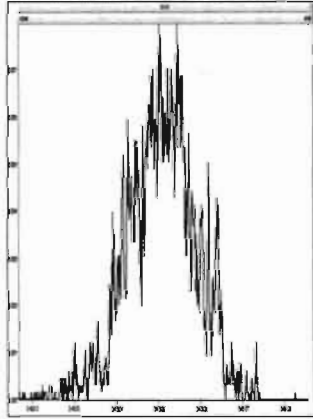
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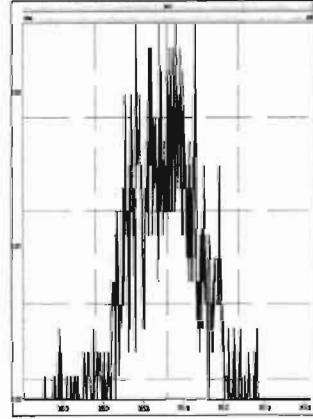
M 330.9792 R 12138



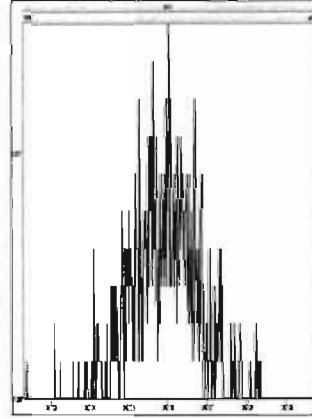
M 342.9792 R 11905



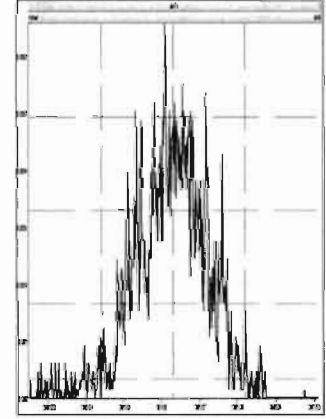
M 354.9792 R 11847

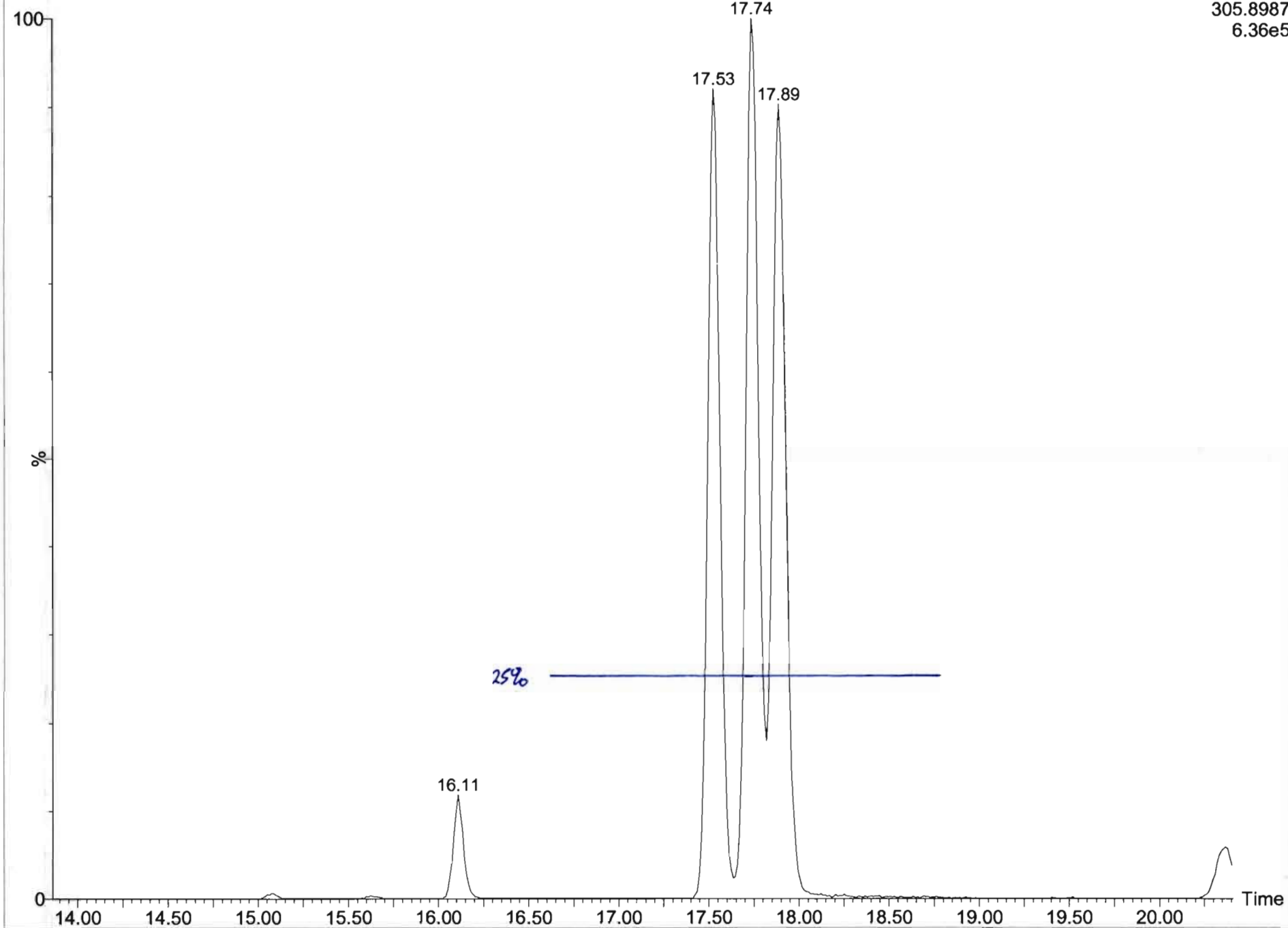


M 366.9792 R 15247



M 380.9760 R 12015





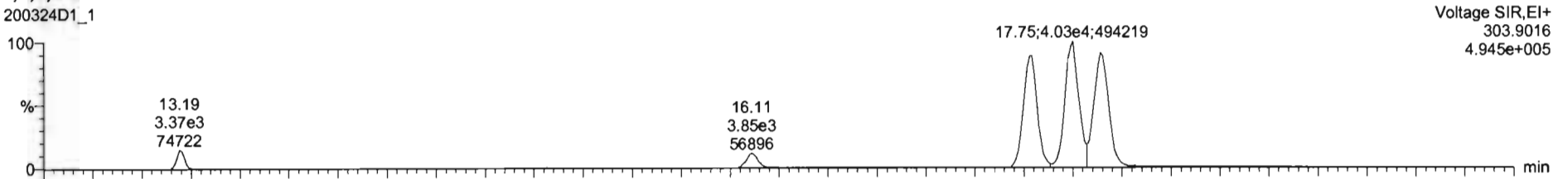
Dataset: U:\VG7.PRO\Results\200324D1\200324D1_1.qld

Last Altered: Tuesday, March 24, 2020 10:58:54 Pacific Daylight Time
Printed: Tuesday, March 24, 2020 11:02:27 Pacific Daylight Time

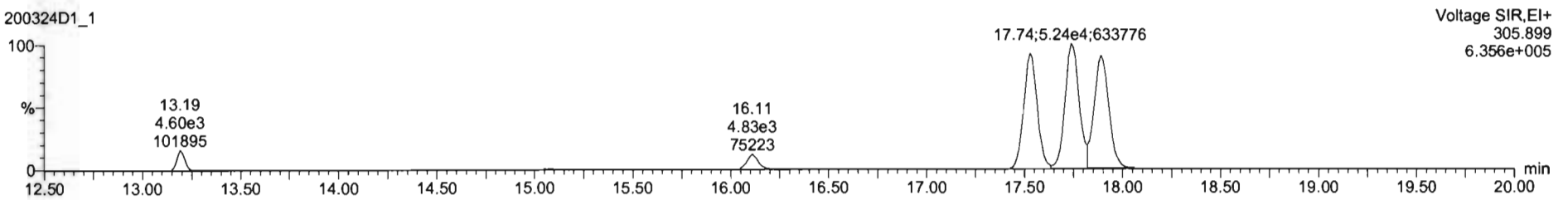
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200324D1_1, Date: 24-Mar-2020, Time: 10:24:42, ID: CP200324D1-1 DB-225 CPSM, Description: DB-225 CPSM

2,3,7,8-TCDF
200324D1_1

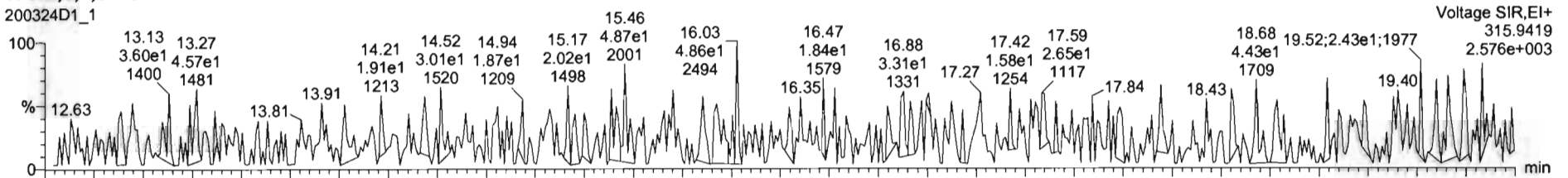


200324D1_1

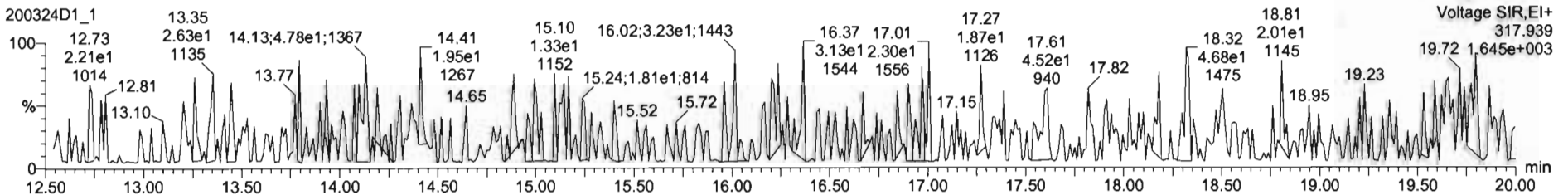


13C-2,3,7,8-TCDF

200324D1_1



200324D1_1



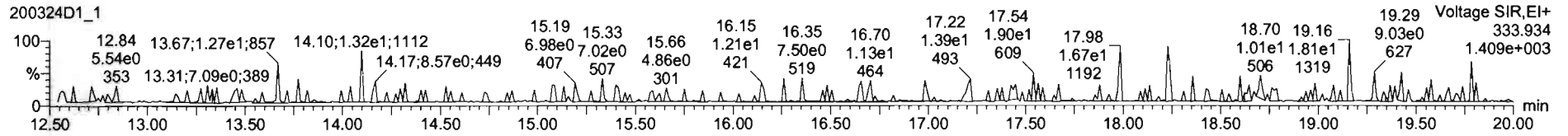
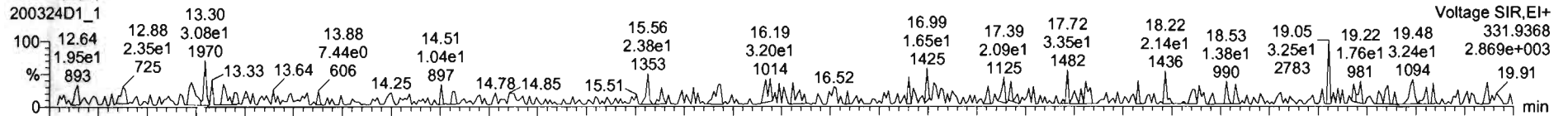
Dataset: U:\VG7.PRO\Results\200324D1\200324D1_1.qld

Last Altered: Tuesday, March 24, 2020 10:58:54 Pacific Daylight Time

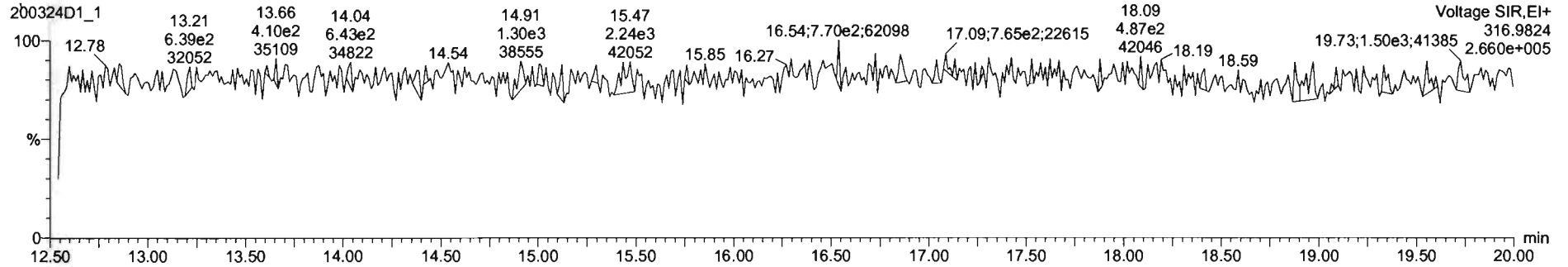
Printed: Tuesday, March 24, 2020 11:02:27 Pacific Daylight Time

Name: 200324D1_1, Date: 24-Mar-2020, Time: 10:24:42, ID: CP200324D1-1 DB-225 CPSM, Description: DB-225 CPSM

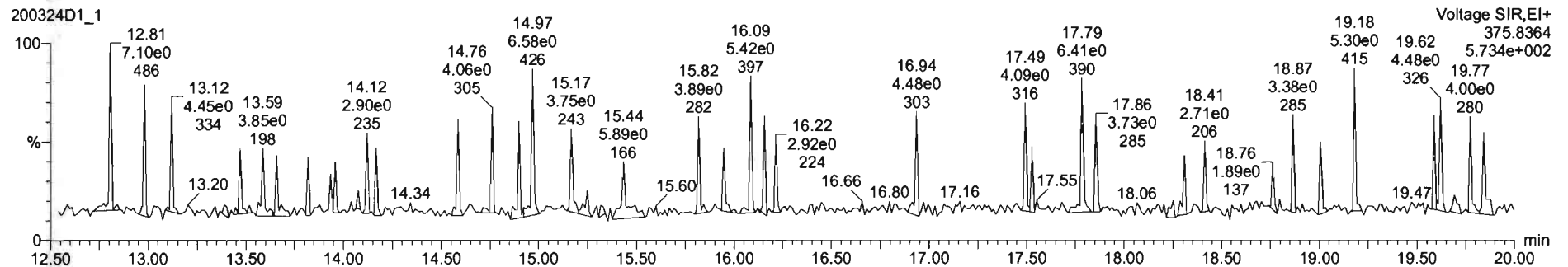
13C-1,2,3,4-TCDD



PFK1



DPE1



Dataset: U:\VG7.PRO\Results\200324D1\200324D1_2.qld

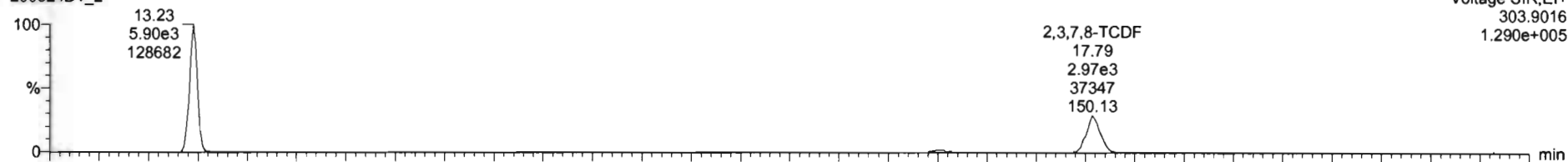
Last Altered: Tuesday, March 24, 2020 11:18:06 Pacific Daylight Time
Printed: Tuesday, March 24, 2020 11:19:26 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

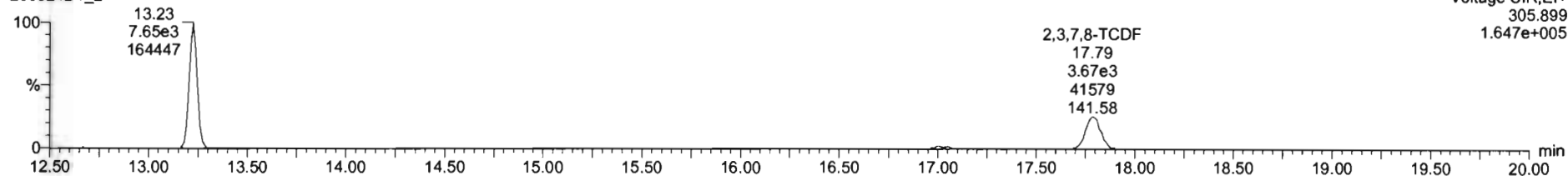
Name: 200324D1_2, Date: 24-Mar-2020, Time: 10:54:51, ID: ST200324D1-1 1613 CS3 19L2305, Description: 1613 CS3 19I1604

2,3,7,8-TCDF

200324D1_2

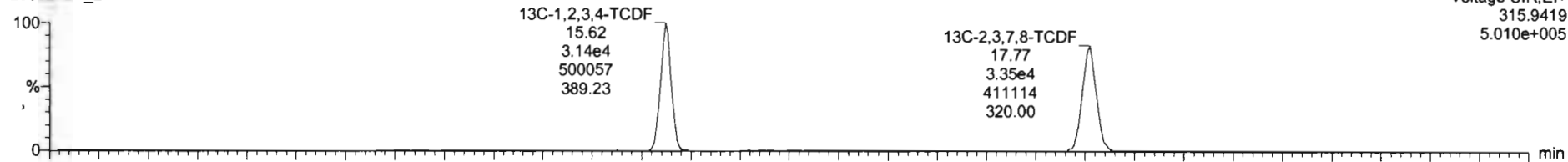


200324D1_2

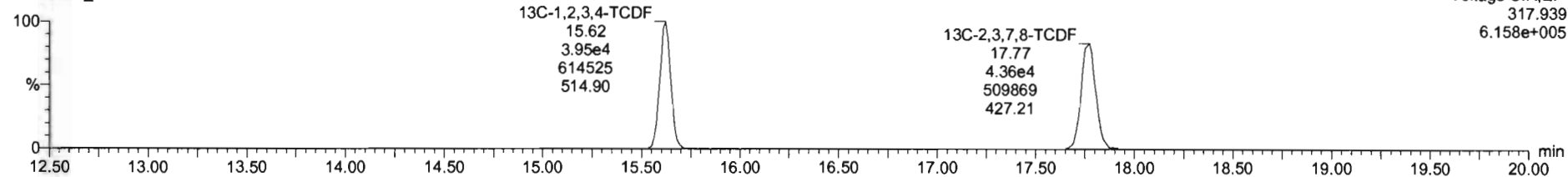


13C-2,3,7,8-TCDF

200324D1_2



200324D1_2



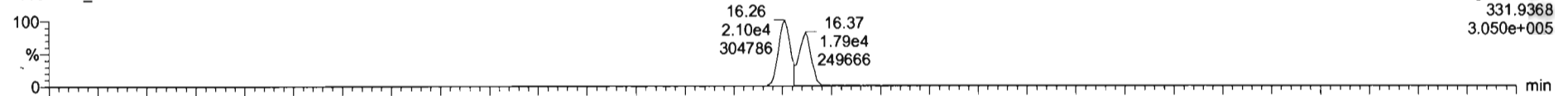
Dataset: U:\VG7.PRO\Results\200324D1\200324D1_2.qld

Last Altered: Tuesday, March 24, 2020 11:18:06 Pacific Daylight Time
Printed: Tuesday, March 24, 2020 11:19:26 Pacific Daylight Time

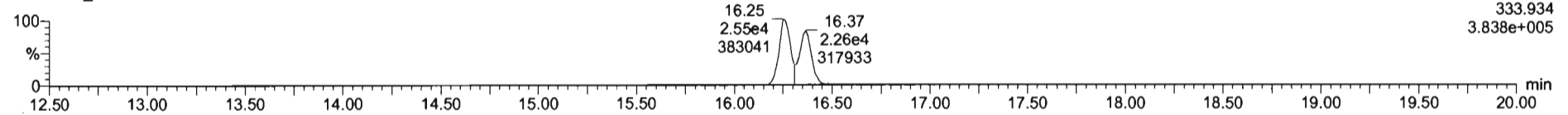
Name: 200324D1_2, Date: 24-Mar-2020, Time: 10:54:51, ID: ST200324D1-1 1613 CS3 19L2305, Description: 1613 CS3 1911604

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

200324D1_2

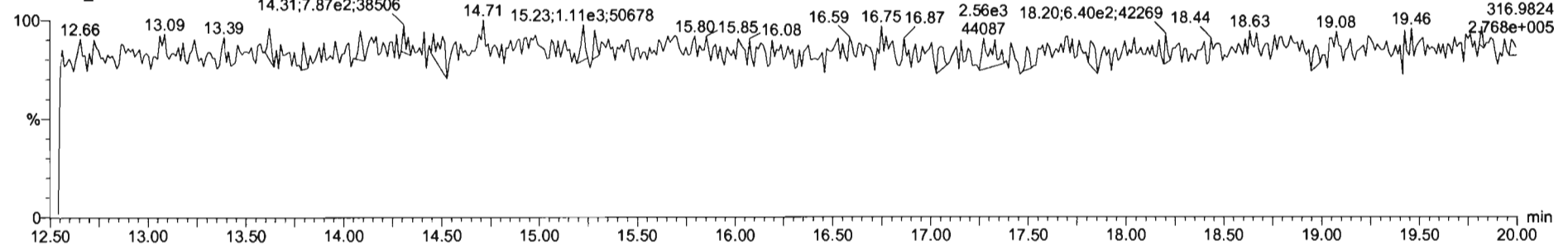


200324D1_2



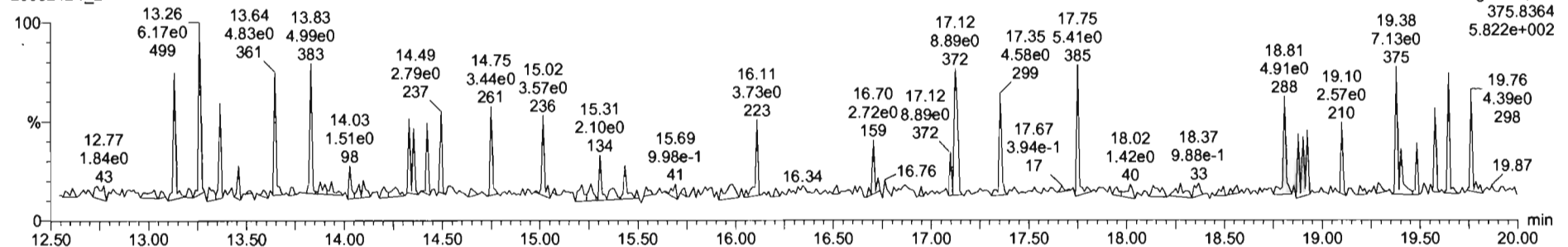
PFK1

200324D1_2



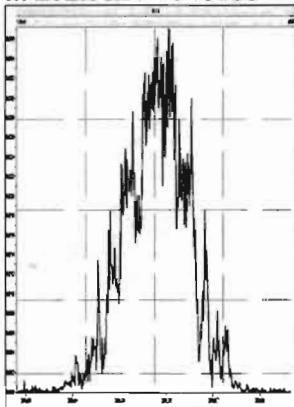
DPE1

200324D1_2

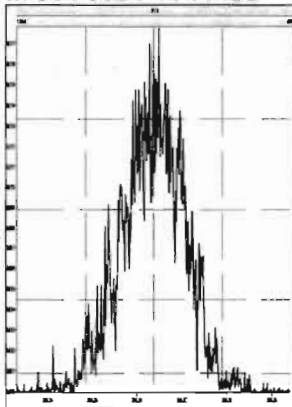


Printed: Tuesday, March 24, 2020 18:52:07 Pacific Daylight Time

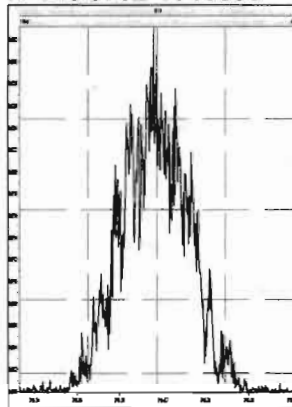
M 292.9824 R 10838



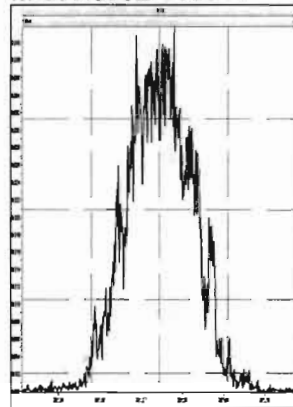
M 304.9824 R 11485



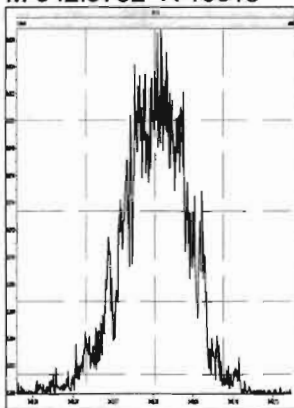
M 318.9792 R 10595



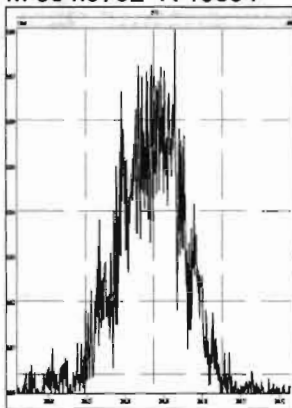
M 330.9792 R 9777



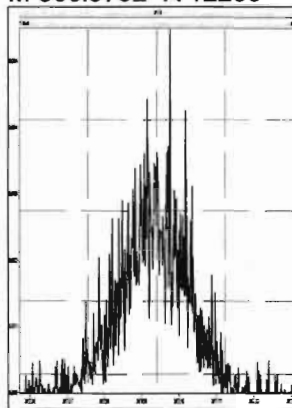
M 342.9792 R 10518



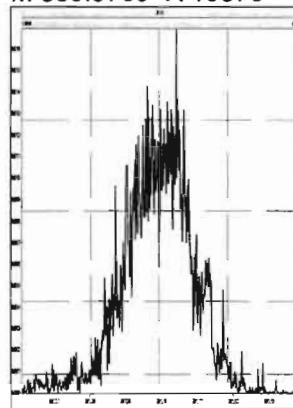
M 354.9792 R 10894



M 366.9792 R 12233



M 380.9760 R 10376



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200326R2-1

Reviewed By: CT 03/27/2020
Initials & Date

End Calibration ID: ST200326R2-2

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

Mass resolution ≥

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

Intergrated peaks display correctly?

GC Break <20%

NA

8280 CS1 End Standard:

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

NA

Comments:

Dataset: U:\VG12.PRO\Results\200326R2\200326R2-1.qld

Last Altered: Thursday, March 26, 2020 14:34:49 Pacific Daylight Time
Printed: Thursday, March 26, 2020 14:36:04 Pacific Daylight Time

GRB 03/26/2020

C103/2 7/2020

Method: U:\VG12.PRO\MethDB\1613rrt-3-20-20.mdb 21 Mar 2020 09:40:15
Calibration: U:\VG12.PRO\CurveDB\cb5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200326R2_1, Date: 26-Mar-2020, Time: 13:40:10, ID: ST200326R2_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	1.07e5	1.01e6	0.79	NO	0.983	25.81	25.80	NO	1.001	1.001	10.803	108	NO
2	2 1,2,3,7,8-PeCDD	3.63e5	6.87e5	0.64	NO	0.921	31.12	31.11	NO	1.001	1.000	57.295	115	NO
3	3 1,2,3,4,7,8-HxCDD	3.54e5	6.27e5	1.25	NO	1.13	34.51	34.52	NO	1.000	1.001	49.889	99.8	NO
4	4 1,2,3,6,7,8-HxCDD	3.85e5	7.84e5	1.25	NO	0.984	34.61	34.62	NO	1.000	1.000	49.882	99.8	NO
5	5 1,2,3,7,8,9-HxCDD	3.46e5	7.15e5	1.24	NO	0.967	34.89	34.88	NO	1.000	1.000	49.951	99.9	NO
6	6 1,2,3,4,6,7,8-HpCDD	2.50e5	5.31e5	1.02	NO	1.01	38.30	38.31	NO	1.000	1.001	46.806	93.6	NO
7	7 OCDD	4.79e5	9.44e5	0.86	NO	1.05	41.37	41.38	NO	1.000	1.000	96.596	96.6	NO
8	8 2,3,7,8-TCDF	1.44e5	1.66e6	0.76	NO	0.915	24.79	24.79	NO	1.001	1.001	9.4626	94.6	NO
9	9 1,2,3,7,8-PeCDF	6.17e5	1.22e6	1.60	NO	0.959	29.76	29.75	NO	1.001	1.001	52.727	105	NO
10	10 2,3,4,7,8-PeCDF	6.37e5	1.20e6	1.56	NO	1.00	30.80	30.79	NO	1.001	1.000	52.862	106	NO
11	11 1,2,3,4,7,8-HxCDF	4.40e5	9.32e5	1.22	NO	1.04	33.66	33.67	NO	1.000	1.000	45.529	91.1	NO
12	12 1,2,3,6,7,8-HxCDF	5.00e5	1.07e6	1.19	NO	1.01	33.79	33.79	NO	1.000	1.000	46.074	92.1	NO
13	13 2,3,4,6,7,8-HxCDF	4.74e5	9.58e5	1.20	NO	1.09	34.38	34.35	NO	1.001	1.000	45.333	90.7	NO
14	14 1,2,3,7,8,9-HxCDF	3.60e5	7.67e5	1.21	NO	1.03	35.22	35.23	NO	1.000	1.000	45.747	91.5	NO
15	15 1,2,3,4,6,7,8-HpCDF	3.20e5	6.76e5	1.00	NO	1.05	36.93	36.92	NO	1.001	1.001	45.169	90.3	NO
16	16 1,2,3,4,7,8,9-HpCDF	2.30e5	4.26e5	0.98	NO	1.21	38.95	38.96	NO	1.000	1.000	44.665	89.3	NO
17	17 OCDF	5.25e5	1.23e6	0.87	NO	0.947	41.55	41.56	NO	1.000	1.000	90.410	90.4	NO
18	18 13C-2,3,7,8-TCDD	1.01e6	8.54e5	0.81	NO	1.18	25.79	25.78	NO	1.030	1.029	99.834	99.8	NO
19	19 13C-1,2,3,7,8-PeCDD	6.87e5	8.54e5	0.66	NO	0.864	31.10	31.09	NO	1.242	1.241	93.044	93.0	NO
20	20 13C-1,2,3,4,7,8-HxCDD	6.27e5	9.64e5	1.29	NO	0.754	34.50	34.50	NO	1.014	1.014	86.250	86.3	NO
21	21 13C-1,2,3,6,7,8-HxCDD	7.84e5	9.64e5	1.29	NO	0.925	34.60	34.61	NO	1.017	1.017	87.893	87.9	NO
22	22 13C-1,2,3,7,8,9-HxCDD	7.15e5	9.64e5	1.27	NO	0.829	34.87	34.88	NO	1.025	1.025	89.393	89.4	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.31e5	9.64e5	1.06	NO	0.598	38.29	38.29	NO	1.125	1.125	92.044	92.0	NO
24	24 13C-OCDD	9.44e5	9.64e5	0.90	NO	0.571	41.36	41.37	NO	1.215	1.216	171.35	85.7	NO
25	25 13C-2,3,7,8-TCDF	1.66e6	1.57e6	0.80	NO	1.09	24.78	24.76	NO	0.989	0.989	96.874	96.9	NO
26	26 13C-1,2,3,7,8-PeCDF	1.22e6	1.57e6	1.60	NO	0.876	29.74	29.74	NO	1.187	1.187	88.409	88.4	NO
27	27 13C-2,3,4,7,8-PeCDF	1.20e6	1.57e6	1.63	NO	0.844	30.72	30.77	NO	1.227	1.229	90.419	90.4	NO
28	28 13C-1,2,3,4,7,8-HxCDF	9.32e5	9.64e5	0.51	NO	1.00	33.65	33.66	NO	0.989	0.989	96.596	96.6	NO
29	29 13C-1,2,3,6,7,8-HxCDF	1.07e6	9.64e5	0.51	NO	1.12	33.77	33.78	NO	0.992	0.993	99.322	99.3	NO
30	30 13C-2,3,4,6,7,8-HxCDF	9.58e5	9.64e5	0.52	NO	1.04	34.33	34.34	NO	1.009	1.009	95.987	96.0	NO
31	31 13C-1,2,3,7,8,9-HxCDF	7.67e5	9.64e5	0.52	NO	0.873	35.20	35.22	NO	1.034	1.035	91.052	91.1	NO

Dataset: U:\VG12.PRO\Results\200326R2\200326R2-1.qld

Last Altered: Thursday, March 26, 2020 14:34:49 Pacific Daylight Time

Printed: Thursday, March 26, 2020 14:36:04 Pacific Daylight Time

Name: 200326R2_1, Date: 26-Mar-2020, Time: 13:40:10, ID: ST200326R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	32 13C-1,2,3,4,6,7,8-HpCDF	6.76e5	9.64e5	0.43	NO	0.771	36.91	36.90	NO	1.084	1.084	90.954	91.0	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.26e5	9.64e5	0.43	NO	0.519	38.94	38.95	NO	1.144	1.145	85.100	85.1	NO
34	34 13C-OCDF	1.23e6	9.64e5	0.88	NO	0.696	41.54	41.55	NO	1.220	1.221	182.62	91.3	NO
35	35 37Cl-2,3,7,8-TCDD	1.05e5	8.54e5			1.17	25.82	25.80	NO	1.031	1.030	10.443	104	NO
36	36 13C-1,2,3,4-TCDD	8.54e5	8.54e5	0.83	NO	1.00	25.03	25.05	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.57e6	1.57e6	0.80	NO	1.00	23.09	23.09	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	9.64e5	9.64e5	0.51	NO	1.00	34.02	34.03	NO	1.000	1.000	100.00	100	YES <i>sk</i>

Dataset: Untitled

Last Altered: Friday, March 27, 2020 07:35:27 Pacific Daylight Time
Printed: Friday, March 27, 2020 07:36:44 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-3-20-20.mdb 21 Mar 2020 09:40:15
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

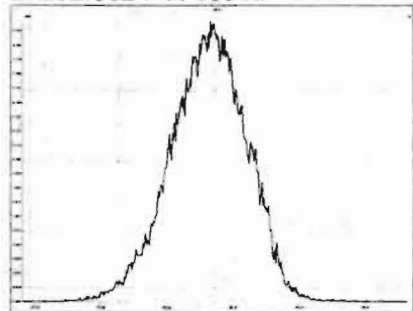
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	200326R2_1	ST200326R2_1 1613 CS3 19L2305	26-Mar-20	13:40:10
2	200326R2_2	SOLVENT BLANK	26-Mar-20	14:32:12
3	200326R2_3	B0B0234-BS2 OPR 1	26-Mar-20	15:18:52
4	200326R2_4	SOLVENT BLANK	26-Mar-20	16:06:10
5	200326R2_5	B0B0174-BLK1 Method Blank 1	26-Mar-20	16:53:53
6	200326R2_6	B0C0039-BLK1 Method Blank 1	26-Mar-20	17:41:37
7	200326R2_7	2000320-01 202002110550 1.03272	26-Mar-20	18:29:22
8	200326R2_8	2000320-02 202002110551 1.02528	26-Mar-20	19:17:05
9	200326R2_9	2000320-03 202002110552 1.05252	26-Mar-20	20:04:49
10	200326R2_10	2000352-01 202002130533 0.97746	26-Mar-20	20:52:34
11	200326R2_11	2000415-01 177 1.00463	26-Mar-20	21:40:18
12	200326R2_12	2000415-03 919 0.99146	26-Mar-20	22:28:02
13	200326R2_13	2000415-05 ATG 160 0.96236	26-Mar-20	23:15:47
14	200326R2_14	2000144-03@2X PDI-055SC-A-03-04-191015 ...	27-Mar-20	00:03:32
15	200326R2_15	SOLVENT BLANK	27-Mar-20	00:51:18
16	200326R2_16	ST200326R2_2 1613 CS3 19L2305	27-Mar-20	01:39:04

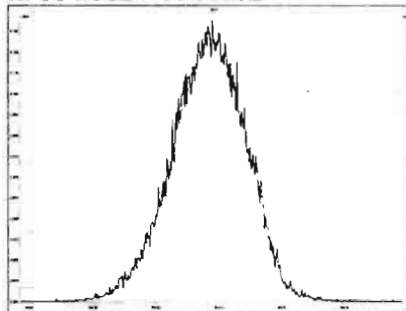
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, March 26, 2020 13:35:59 Pacific Daylight Time

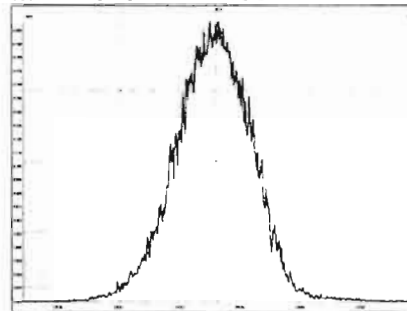
M 292.9824 R 10918



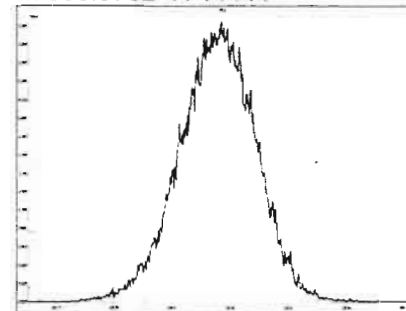
M 304.9824 R 11362



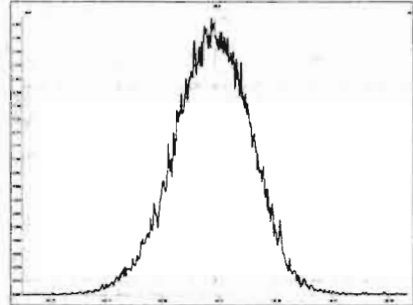
M 318.9792 R 11163



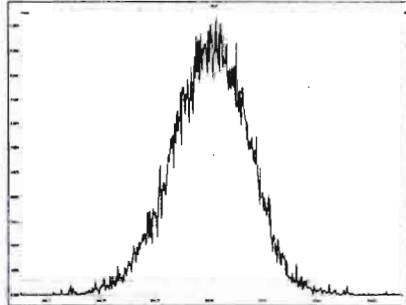
M 330.9792 R 11111



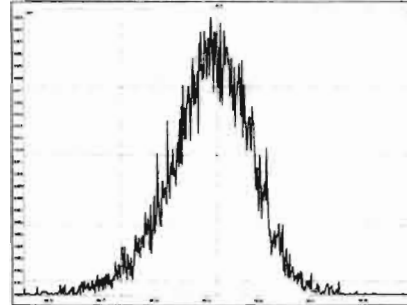
M 342.9792 R 10820



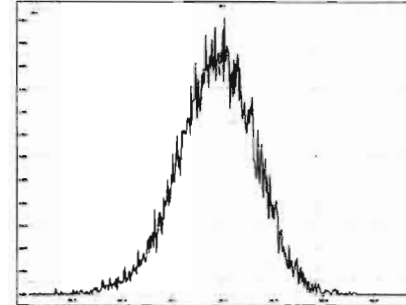
M 354.9792 R 11364



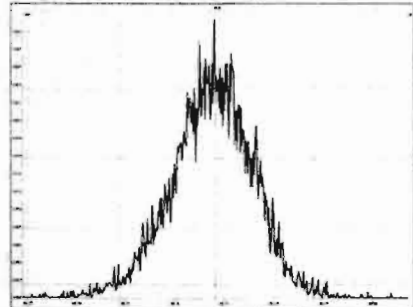
M 366.9792 R 10415



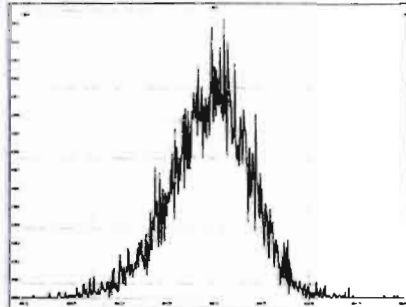
M 380.9760 R 11162



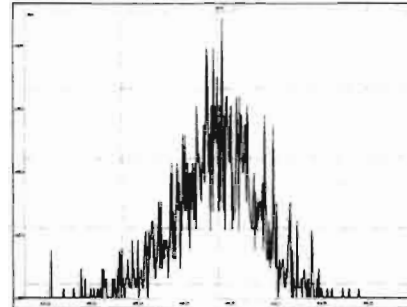
M 392.9760 R 10917



M 404.9760 R 11790



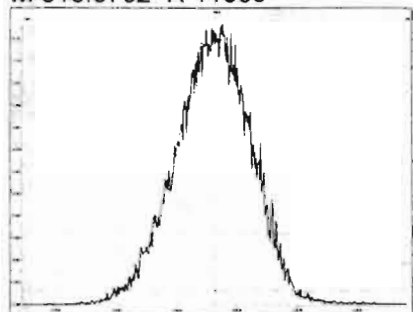
M 416.9760 R 10505



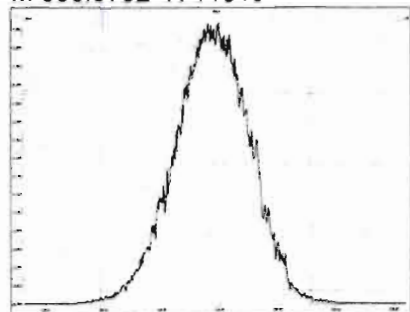
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Thursday, March 26, 2020 13:36:42 Pacific Daylight Time

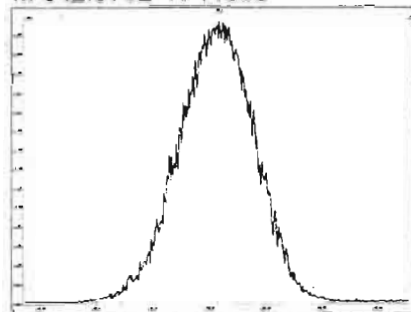
M 318.9792 R 11309



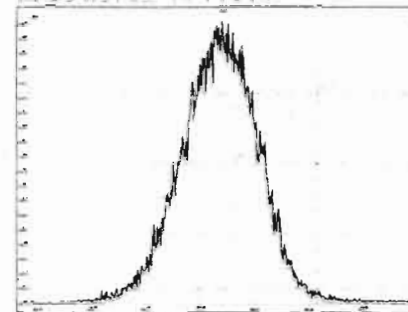
M 330.9792 R 11313



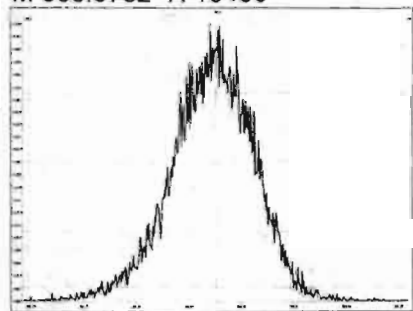
M 342.9792 R 11065



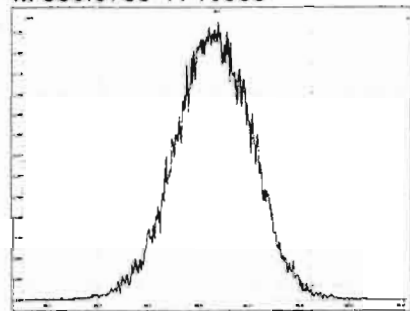
M 354.9792 R 11014



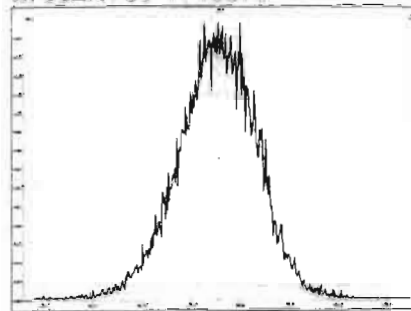
M 366.9792 R 10460



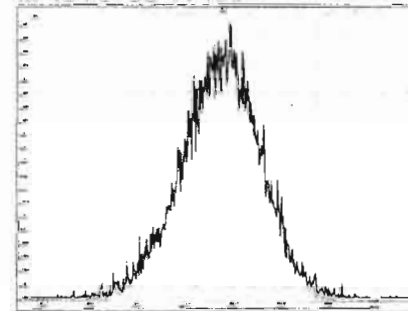
M 380.9760 R 10595



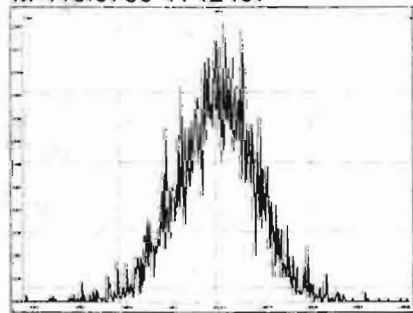
M 392.9760 R 10870



M 404.9760 R 10547



M 416.9760 R 12497



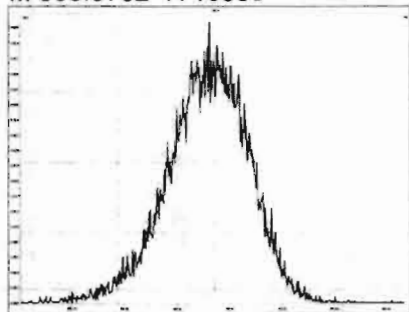
Experiment Calibration Report

MassLynx 4.1 SCN815

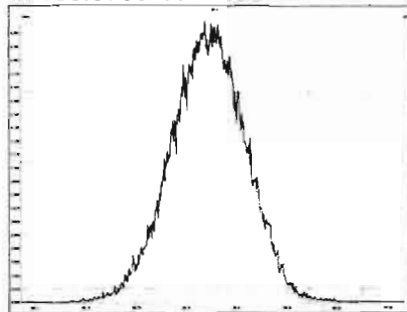
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Thursday, March 26, 2020 13:37:16 Pacific Daylight Time

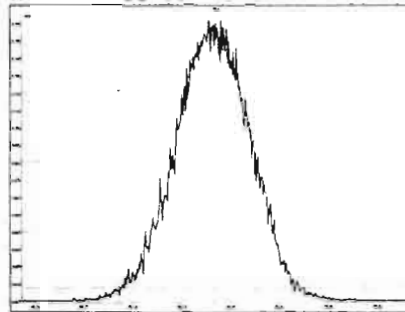
M 366.9792 R 10683



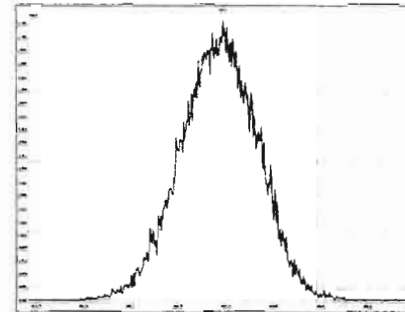
M 380.9760 R 11109



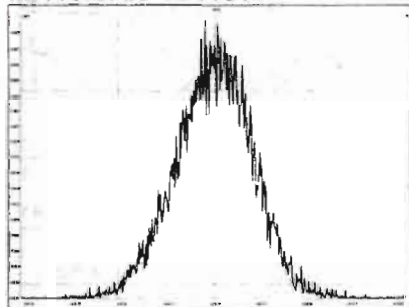
M 392.9760 R 11313



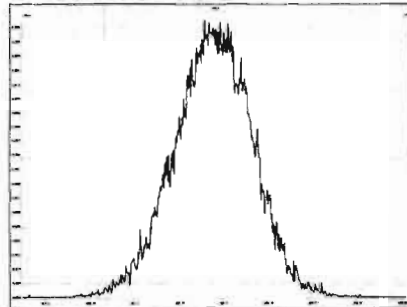
M 404.9760 R 11159



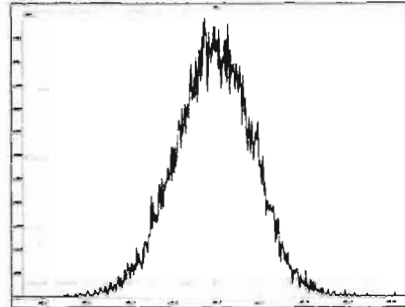
M 416.9760 R 11313



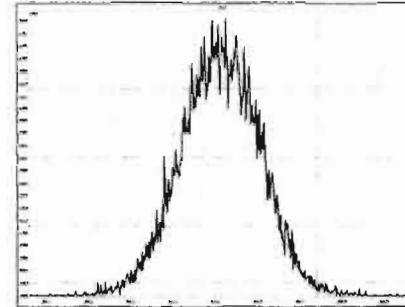
M 430.9728 R 11211



M 442.9728 R 11310



M 454.9728 R 10246



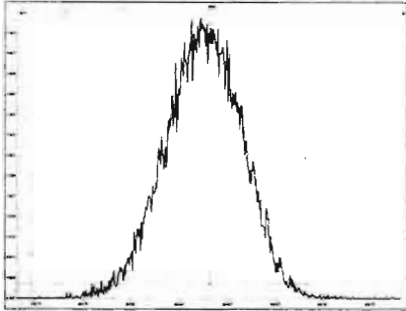
Experiment Calibration Report

MassLynx 4.1 SCN815

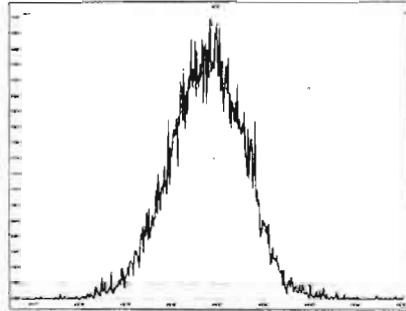
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Thursday, March 26, 2020 13:37:51 Pacific Daylight Time

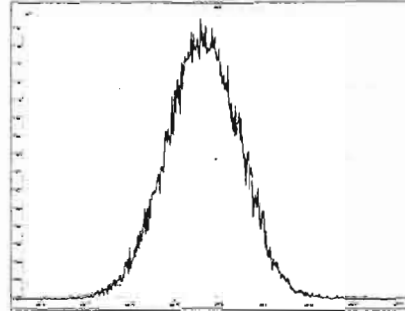
M 404.9760 R 11363



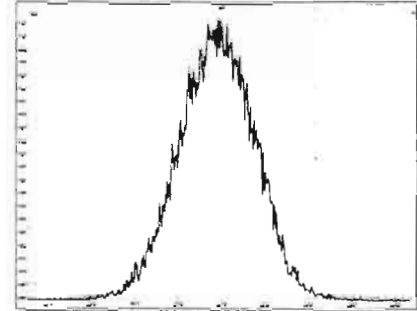
M 416.9760 R 12017



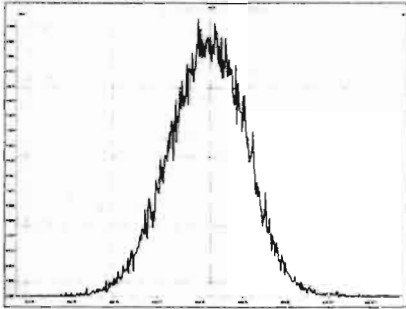
M 430.9728 R 10773



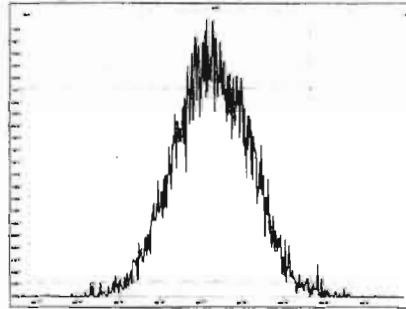
M 442.9728 R 10964



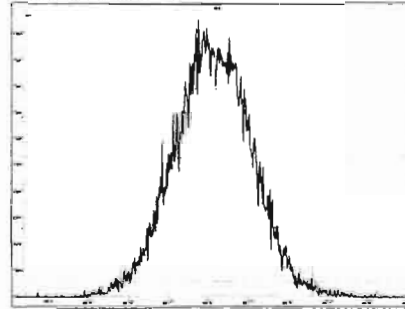
M 454.9728 R 10777



M 466.9728 R 11737



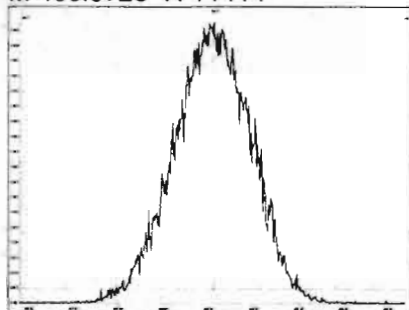
M 480.9696 R 11159



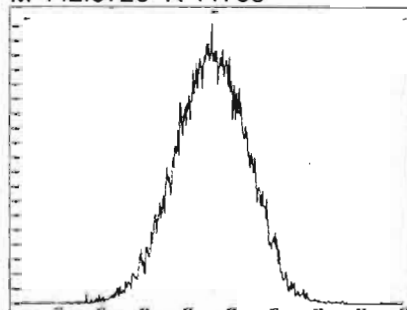
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Thursday, March 26, 2020 13:38:25 Pacific Daylight Time

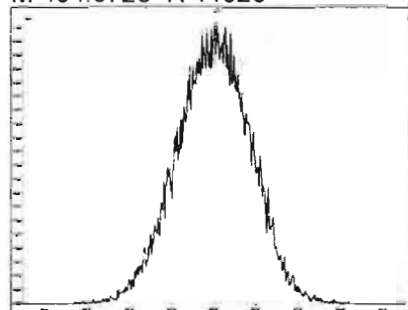
M 430.9728 R 11414



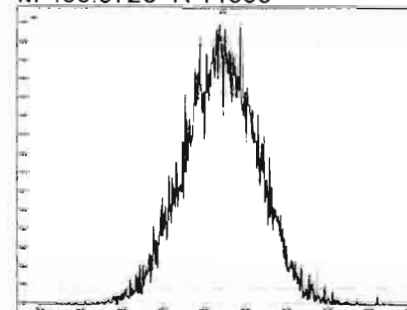
M 442.9728 R 11738



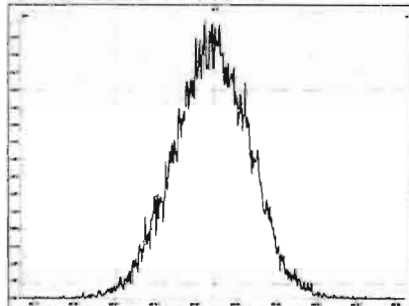
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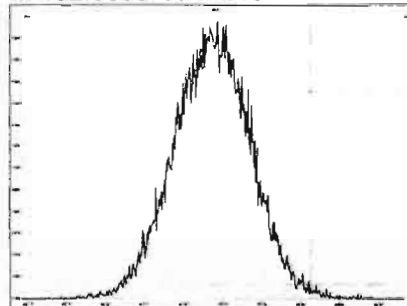
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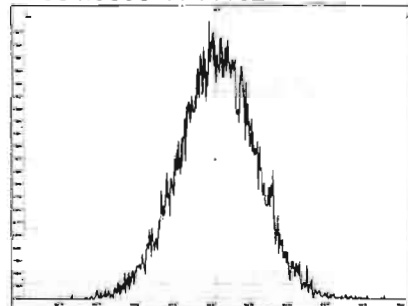
M 480.9696 R 11312



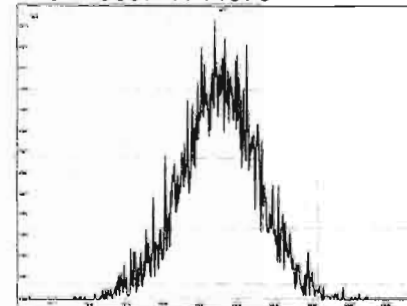
M 492.9696 R 11210



M 504.9696 R 11162



M 516.9697 R 11570



Vista Analytical Laboratory VG-11

Dataset: U:\VG12.PRO\Results\200326R2\200326R2-CPSM.qld

Last Altered: Thursday, March 26, 2020 14:31:13 Pacific Daylight Time

Printed: Thursday, March 26, 2020 14:31:44 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 20 Mar 2020 14:46:47

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

Name: 200326R2_1, Date: 26-Mar-2020, Time: 13:40:10, ID: ST200326R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1,3,6,8-TCDD (First)	21.41
2	1,2,8,9-TCDD (Last)	26.86
3	1,2,4,7,9-PeCDD (First)	28.79
4	1,2,3,8,9-PeCDD (Last)	31.51
5	1,2,4,6,7,9-HxCDD (First)	33.04
6	1,2,3,7,8,9-HxCDD (Last)	34.89
7	1,2,3,4,6,7,9-HpCDD (First)	37.29
8	1,2,3,4,6,7,8-HpCDD (Last)	38.31
9	1,3,6,8-TCDF (First)	19.42
10	1,2,8,9-TCDF (Last)	27.01
11	1,3,4,6,8-PeCDF (First)	26.98
12	1,2,3,8,9-PeCDF (Last)	31.75
13	1,2,3,4,6,8-HxCDF (First)	32.48
14	1,2,3,7,8,9-HxCDF (Last)	35.23
15	1,2,3,4,6,7,8-HpCDF (First)	36.92
16	1,2,3,4,7,8,9-HpCDF (Last)	38.96

Dataset: U:\VG12.PRO\Results\200326R2\200326R2-CPSM.qld

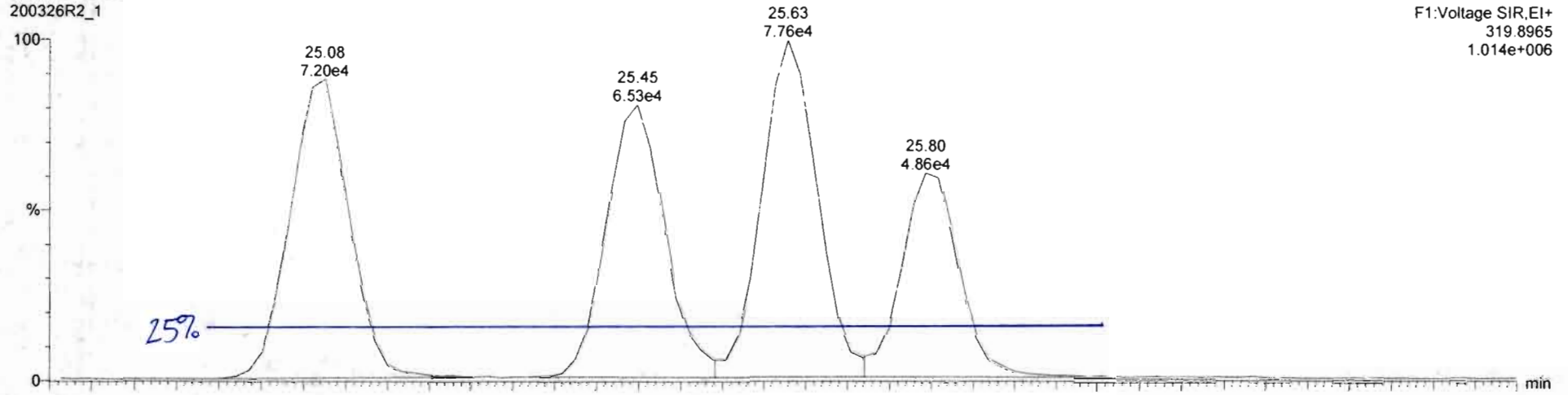
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Printed: Thursday, March 26, 2020 14:31:44 Pacific Daylight Time

GRB 03/26/2020

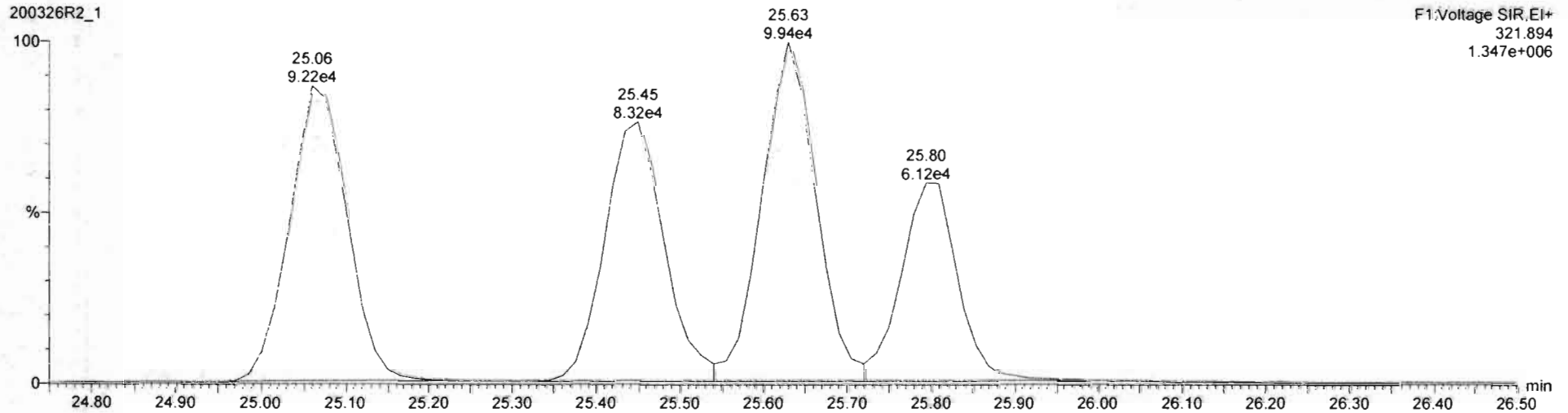
Method: U:\VG12.PRO\MethDB\CPSM.mdb 20 Mar 2020 14:46:47
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200326R2_1, Date: 26-Mar-2020, Time: 13:40:10, ID: ST200326R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,3,6,8-TCDD (First)
200326R2_1



200326R2_1



Dataset: Untitled

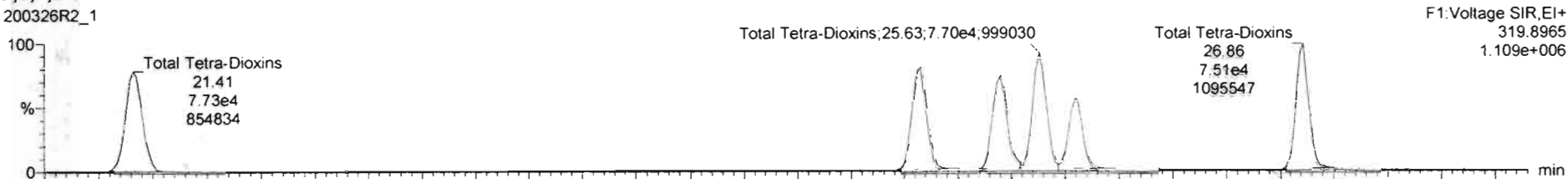
Last Altered: Thursday, March 26, 2020 14:36:15 Pacific Daylight Time
Printed: Thursday, March 26, 2020 14:36:54 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-3-20-20.mdb 21 Mar 2020 09:40:15
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

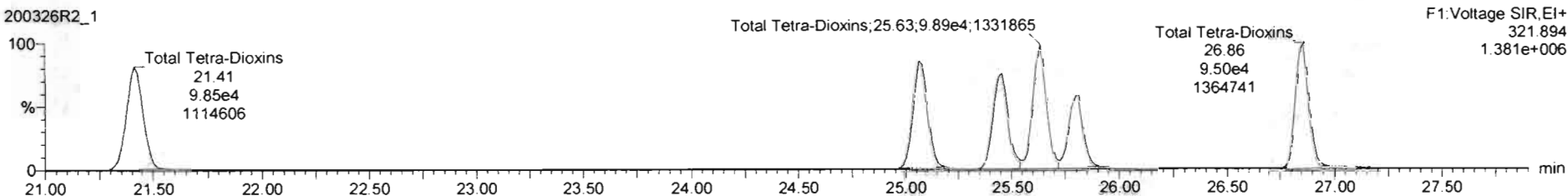
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2,3,7,8-TCDD

200326R2_1

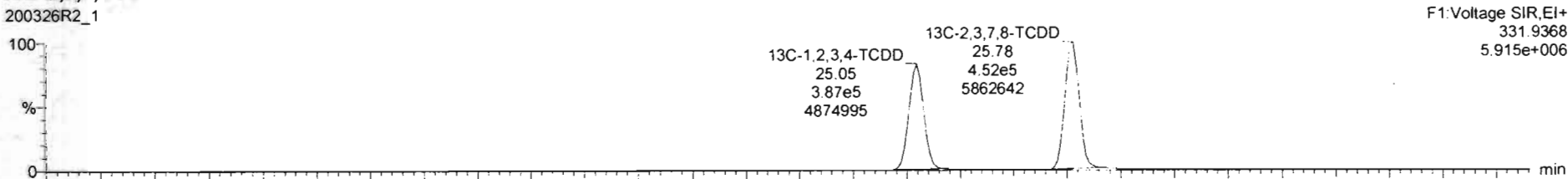


200326R2_1

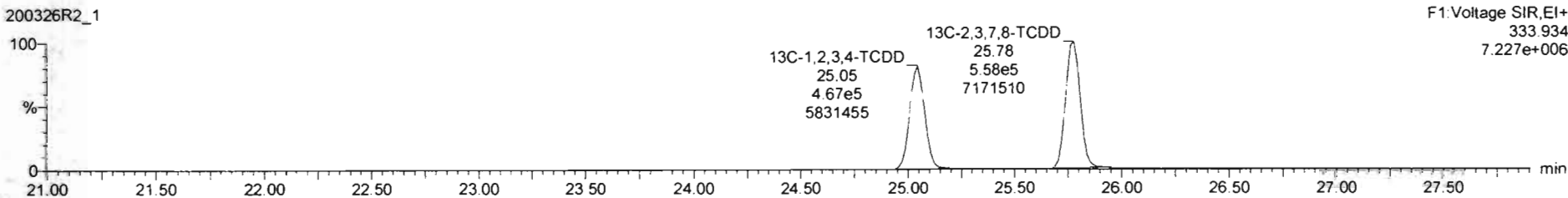


13C-2,3,7,8-TCDD

200326R2_1



200326R2_1



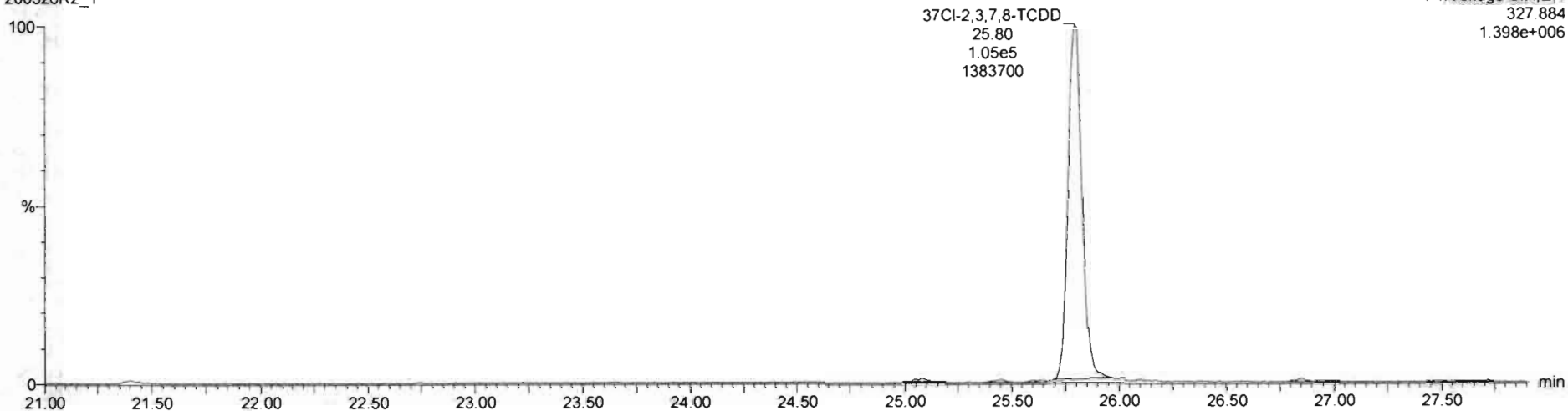
Dataset: Untitled

Last Altered: Thursday, March 26, 2020 14:36:15 Pacific Daylight Time
Printed: Thursday, March 26, 2020 14:36:54 Pacific Daylight Time

Name: 200326R2_1, Date: 26-Mar-2020, Time: 13:40:10, ID: ST200326R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

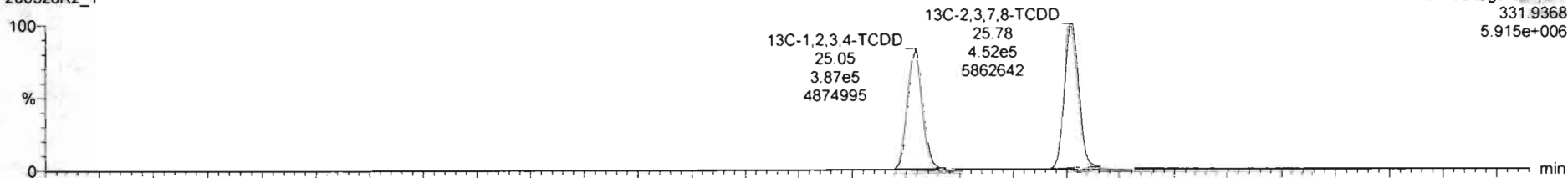
37Cl-2,3,7,8-TCDD

200326R2_1

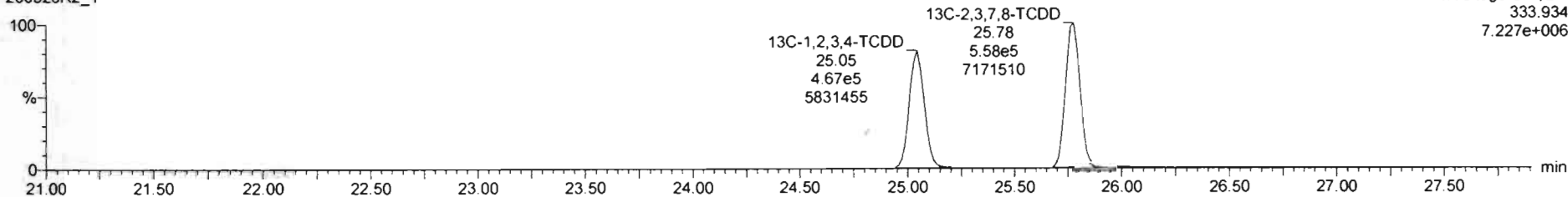


13C-1,2,3,4-TCDD

200326R2_1



200326R2_1



Dataset: Untitled

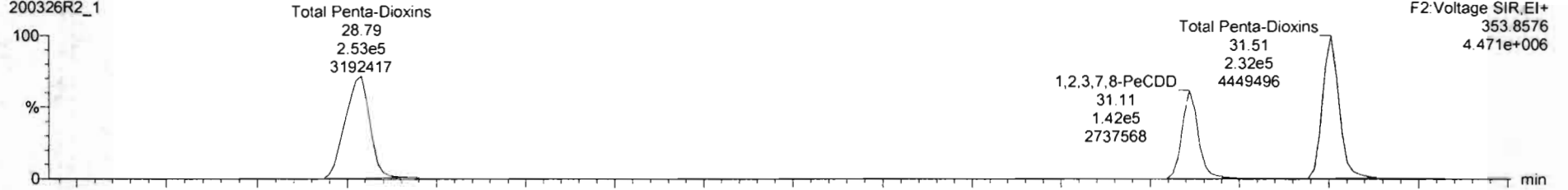
Last Altered: Thursday, March 26, 2020 14:36:15 Pacific Daylight Time

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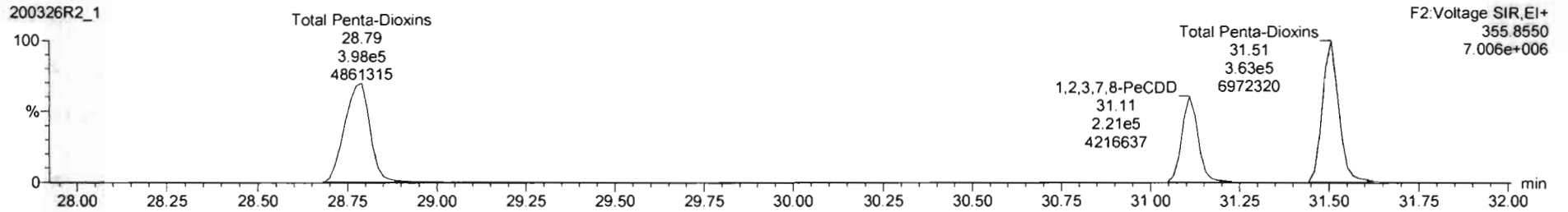
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1,2,3,7,8-PeCDD

200326R2_1

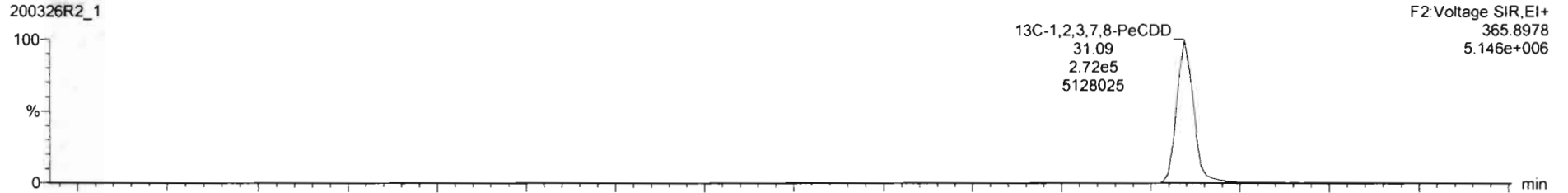


200326R2_1

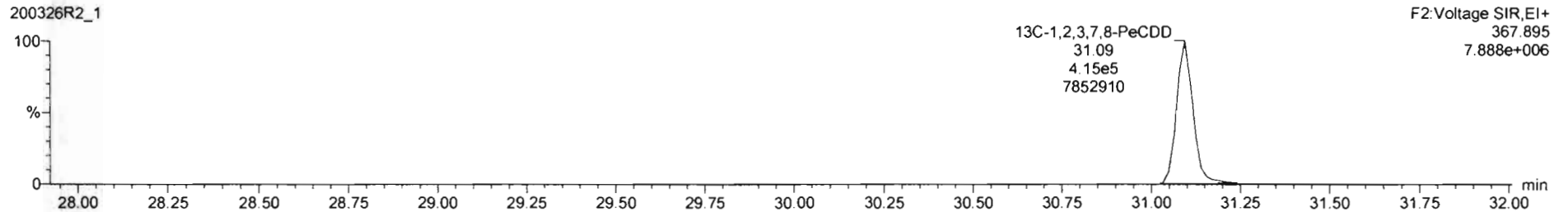


13C-1,2,3,7,8-PeCDD

200326R2_1



200326R2_1



Dataset: Untitled

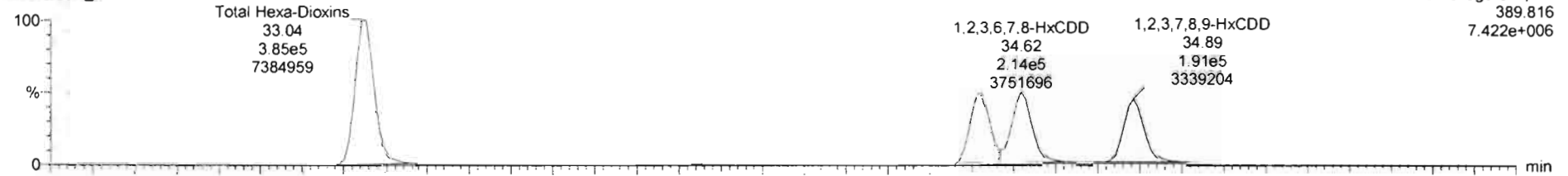
Last Altered: Thursday, March 26, 2020 14:36:15 Pacific Daylight Time

Printed: Thursday, March 26, 2020 14:36:54 Pacific Daylight Time

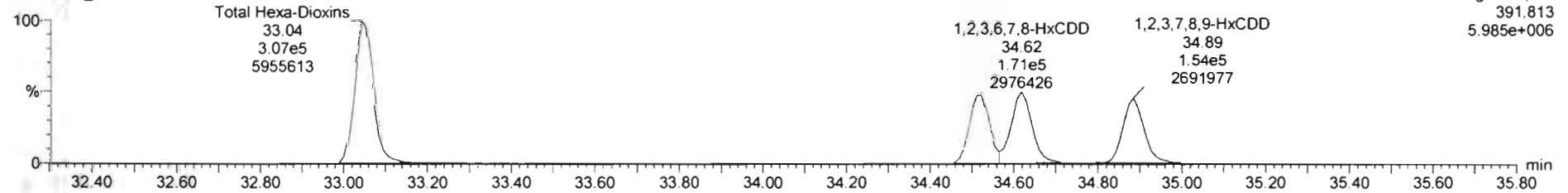
Name: 200326R2_1, Date: 26-Mar-2020, Time: 13:40:10, ID: ST200326R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200326R2_1

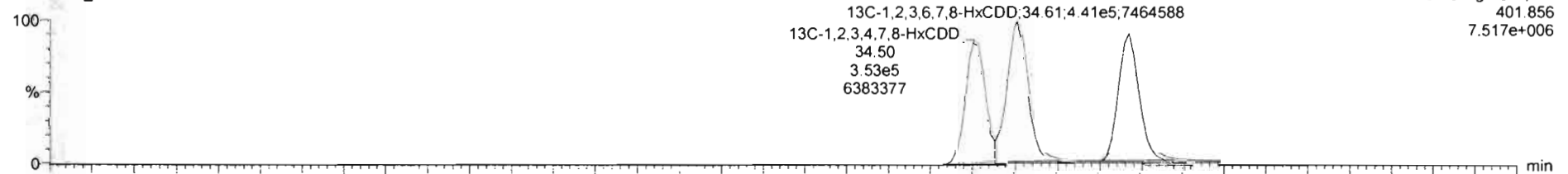


200326R2_1

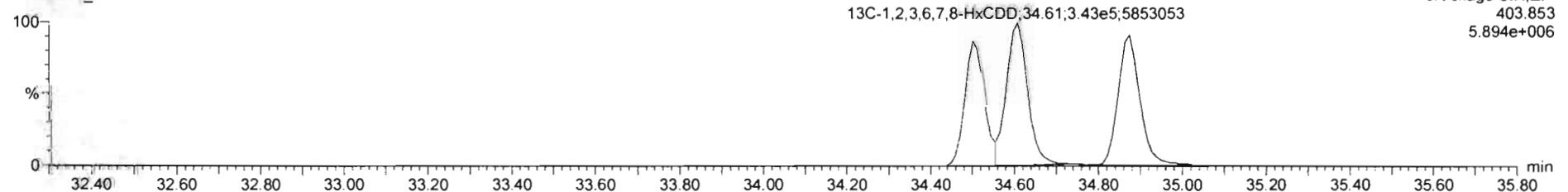


13C-1,2,3,4,7,8-HxCDD

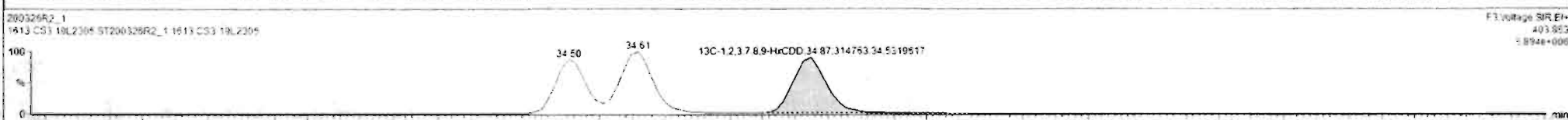
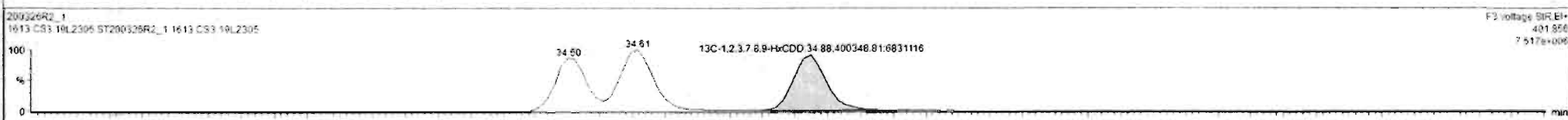
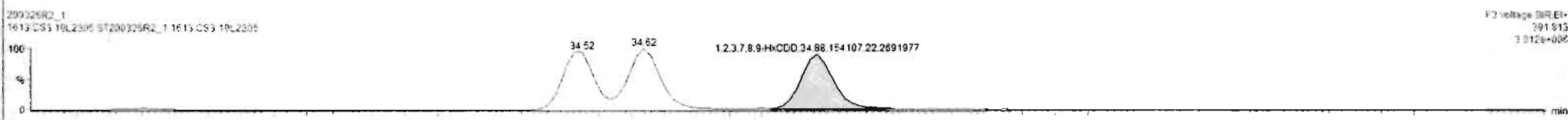
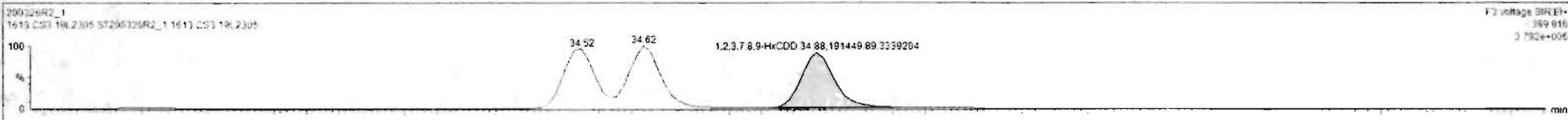
200326R2_1



200326R2_1



#	Name	Resp	S Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	2,3,7,8-TCDD	1.07e5	1.01e5	0.77	0.79	NO	0.9835	25.81	25.80	NO	1.001	1.001	10.6	108	NO
2	1,2,3,7,8-PeCDD	3.63e5	6.27e5	0.63	0.64	NO	0.9212	31.12	31.11	NO	1.001	1.000	57.3	115	NO
3	1,2,3,4,7,8-HxCDD	1.54e5	6.27e5	1.24	1.25	NO	1.1325	34.51	34.52	NO	1.000	1.001	49.9	99.8	NO
4	1,2,3,6,7,8-HxCDD	3.85e5	7.84e5	1.24	1.25	NO	0.9844	34.81	34.82	NO	1.000	1.000	49.9	99.8	NO
5	1,2,3,7,8,9-HxCDD	3.46e5	7.15e5	1.24	1.24	NO	0.9674	34.89	34.88	NO	1.000	1.000	50.0	99.9	NO
6	1,2,3,4,6,7,8-HpCDD	2.50e5	5.31e5	1.04	1.02	NO	1.0061	36.30	36.31	NO	1.000	1.001	46.8	93.6	NO
7	OCDD	4.83e5	9.44e5	0.89	0.85	NO	1.0515	41.27	41.28	NO	1.000	1.000	97.3	97.3	NO
8	2,3,7,8-TCDF	1.44e5	1.66e6	0.77	0.76	NO	0.9154	24.79	24.79	NO	1.001	1.001	9.46	94.6	NO
9	1,2,3,7,8-PeCDF	6.17e5	1.22e6	1.55	1.60	NO	0.9594	29.78	29.75	NO	1.001	1.001	52.7	105	NO
10	2,3,4,7,8-PeCDF	6.37e5	1.20e6	1.55	1.56	NO	1.0035	30.80	30.79	NO	1.001	1.000	52.9	106	NO
11	1,2,3,4,7,8-HxCDF	4.40e5	9.32e5	1.24	1.22	NO	1.0381	33.66	33.67	NO	1.000	1.000	45.5	91.1	NO
12	1,2,3,6,7,8-HxCDF	5.00e5	1.07e6	1.24	1.19	NO	1.0126	33.79	33.78	NO	1.000	1.000	46.1	92.1	NO
13	2,3,4,6,7,8-HxCDF	4.74e5	9.58e5	1.24	1.20	NO	1.0520	34.38	34.35	NO	1.001	1.000	45.3	90.7	NO
14	1,2,3,7,8,9-HxCDF	3.60e5	7.67e5	1.24	1.21	NO	1.0268	35.22	35.22	NO	1.000	1.000	45.7	91.5	NO
15	1,2,3,4,6,7,8-HpCDF	1.20e5	6.76e5	1.04	1.00	NO	1.0483	36.93	36.92	NO	1.001	1.001	45.2	90.3	NO
16	1,2,3,4,7,8,9-HpCDF	2.30e5	4.26e5	1.04	0.98	NO	1.2095	36.55	36.96	NO	1.000	1.000	44.7	89.2	NO
17	OCDF	5.25e5	1.23e6	0.89	0.87	NO	0.9468	41.55	41.56	NO	1.000	1.000	90.4	90.4	NO



Dataset: Untitled

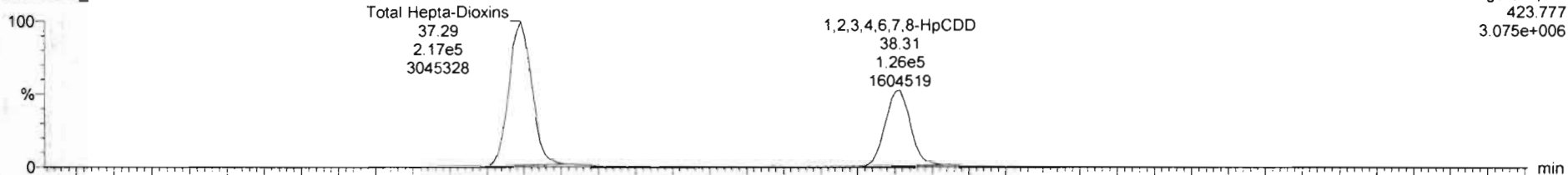
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Printed: Thursday, March 26, 2020 14:36:54 Pacific Daylight Time

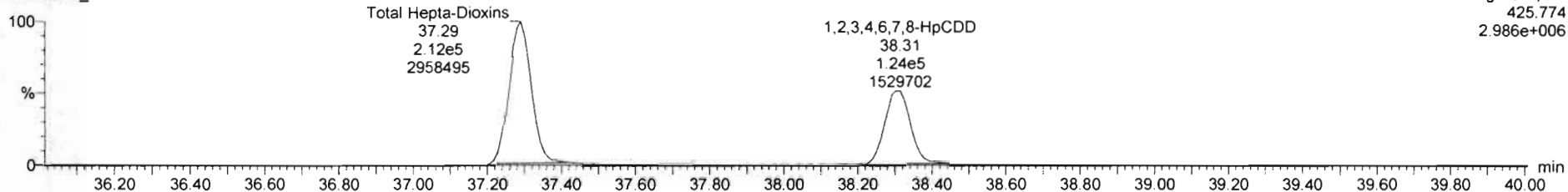
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1,2,3,4,6,7,8-HpCDD

200326R2_1

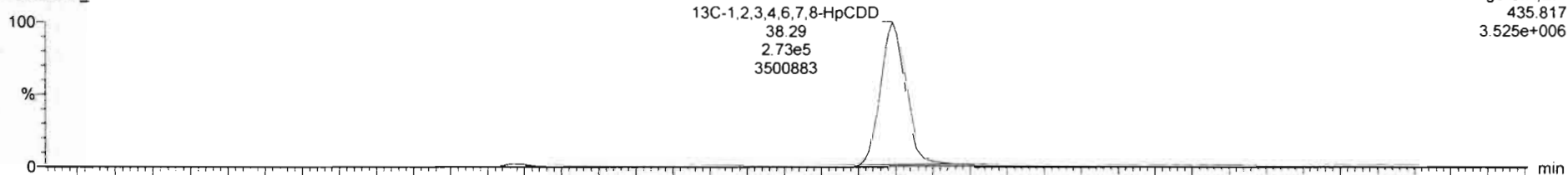


200326R2_1

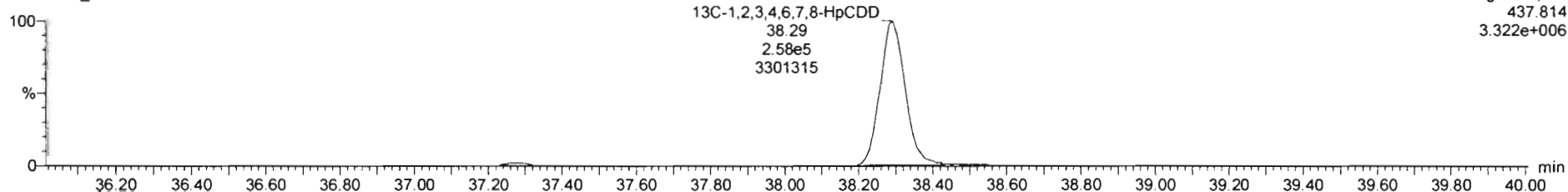


13C-1,2,3,4,6,7,8-HpCDD

200326R2_1



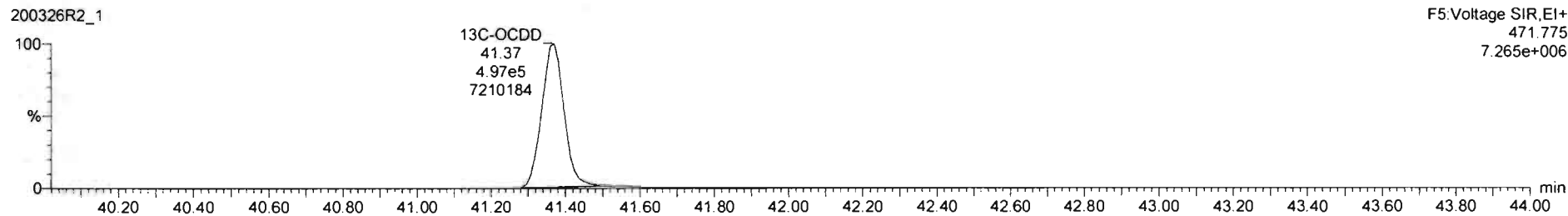
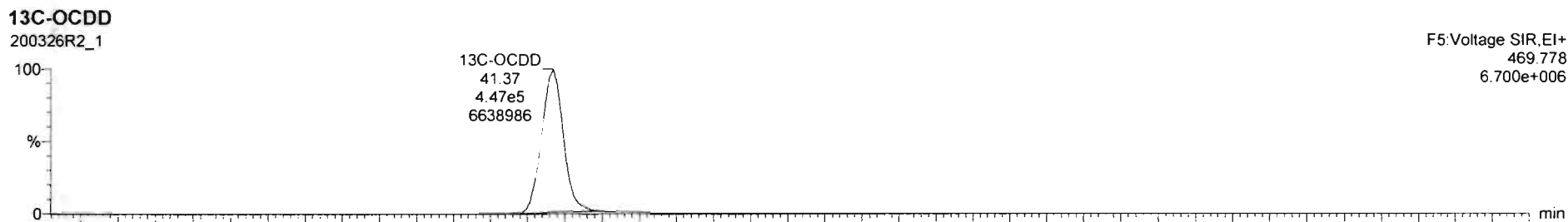
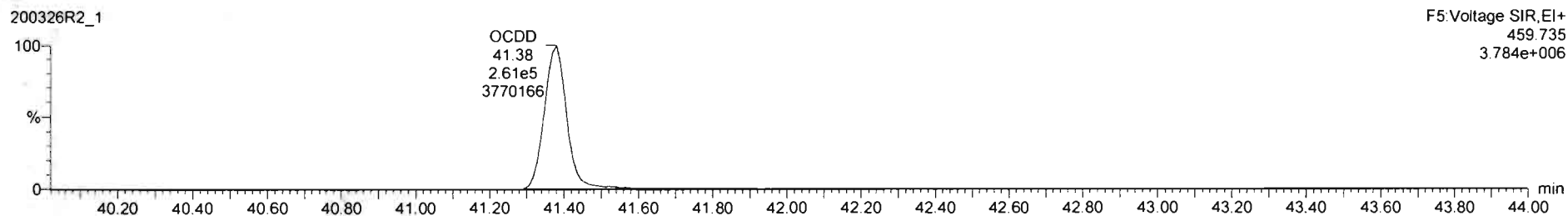
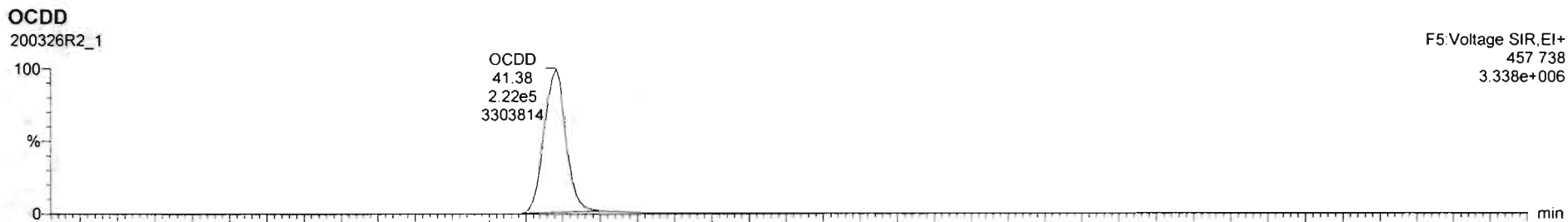
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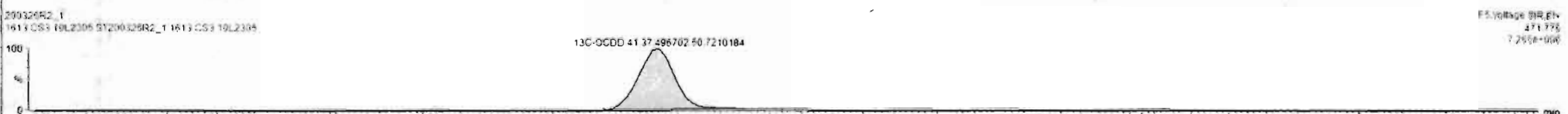
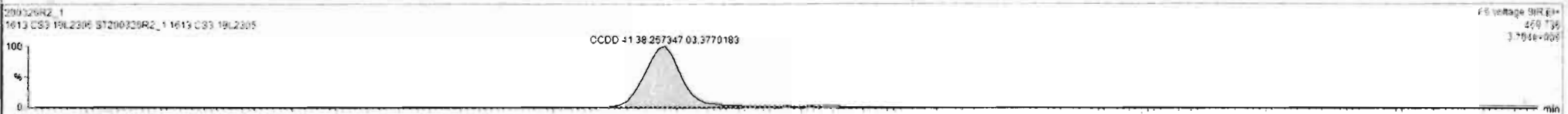
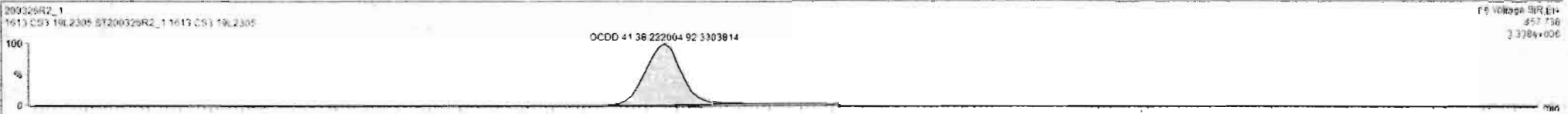
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200326R2_1 - ST200326R2_1 1613 CS3 19L2305 - 1613 CS3 19L2305

#	Name	Resp	IS Resp	Pred RA	RA	nly	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	2,3,7,8-TCDD	1.07e5	1.01e6	0.77	0.79	NO	0.5835	25.81	25.80	NO	1.001	1.001	10.8	105	NO
2	1,2,3,7,8-PeCDD	3.63e5	6.87e5	0.63	0.64	NO	0.9212	31.12	31.11	NO	1.001	1.000	57.3	115	NO
3	1,2,3,4,7,8-HxCDD	3.94e5	6.27e5	1.24	1.25	NO	1.1325	34.51	34.52	NO	1.000	1.001	49.9	99.6	NO
4	1,2,3,6,7,8-HxCDD	3.95e5	7.84e5	1.24	1.25	NO	0.9844	34.61	34.62	NO	1.000	1.000	49.9	99.9	NO
5	1,2,3,7,8,9-HxCDD	3.46e5	7.15e5	1.24	1.24	NO	0.9674	34.89	34.88	NO	1.000	1.000	50.0	99.9	NO
6	1,2,3,4,6,7,8-HpCDD	2.50e5	5.31e5	1.04	1.02	NO	1.0961	36.30	36.31	NO	1.000	1.001	46.8	93.8	NO
7	OCDD	4.79e5	9.44e5	0.89	0.86	NO	1.0519	41.37	41.38	NO	1.000	1.000	96.8	96.6	NO
8	2,3,7,8-TCDF	1.44e5	1.86e6	0.77	0.76	NO	0.5154	24.79	24.79	NO	1.001	1.001	9.46	94.8	NO
9	1,2,3,7,8-PeCDF	6.17e5	1.22e6	1.55	1.60	NO	0.9594	29.78	29.75	NO	1.001	1.001	52.7	105	NO
10	1,2,3,4,7,8-PeCDF	6.37e5	1.20e6	1.55	1.56	NO	1.0035	30.80	30.79	NO	1.001	1.000	52.9	106	NO
11	1,2,3,4,7,8-HxCDF	4.40e5	9.32e5	1.24	1.22	NO	1.0381	33.66	33.67	NO	1.000	1.000	45.5	91.1	NO
12	1,2,3,6,7,8-HxCDF	5.00e5	1.07e6	1.24	1.19	NO	1.0126	33.79	33.79	NO	1.000	1.000	46.1	92.1	NO
13	1,2,3,4,6,7,8-HpCDF	4.74e5	9.58e5	1.24	1.20	NO	1.0920	34.38	34.35	NO	1.001	1.000	45.3	90.7	NO
14	1,2,3,7,8,9-HxCDF	3.60e5	7.67e5	1.24	1.21	NO	1.0262	35.22	35.22	NO	1.000	1.000	45.7	91.5	NO
15	1,2,3,4,6,7,8-HpCDF	3.20e5	6.76e5	1.04	1.00	NO	1.0483	36.93	36.92	NO	1.001	1.001	45.2	90.3	NO
16	1,2,3,4,7,8,9-HpCDF	2.30e5	4.26e5	1.04	0.98	NO	1.2099	36.95	36.96	NO	1.000	1.000	44.7	89.3	NO
17	OCDF	5.25e5	1.23e6	0.89	0.87	NO	0.9468	41.55	41.55	NO	1.000	1.000	90.4	90.4	NO



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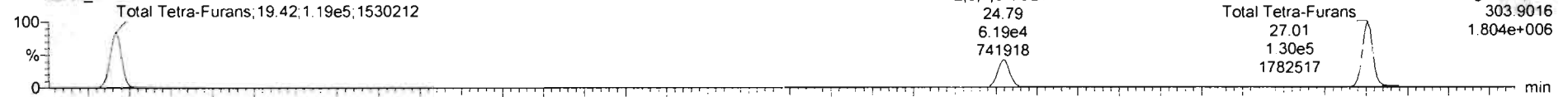
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Printed: Thursday, March 26, 2020 14:36:54 Pacific Daylight Time

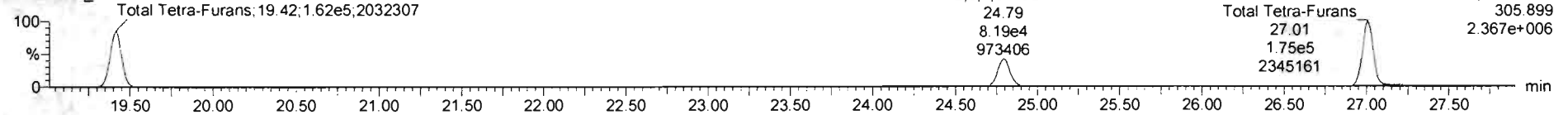
Name: 200326R2_1, Date: 26-Mar-2020, Time: 13:40:10, ID: ST200326R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDF

200326R2_1

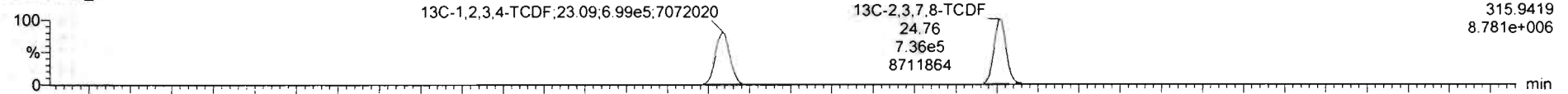


200326R2_1

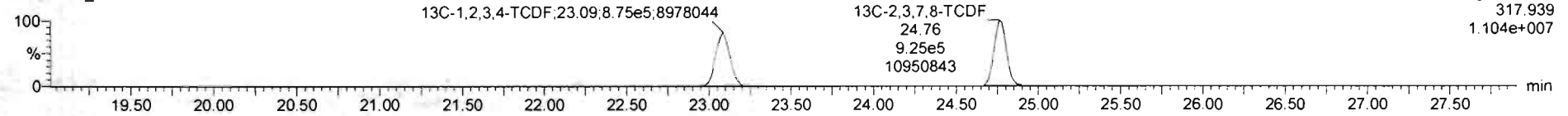


13C-2,3,7,8-TCDF

200326R2_1

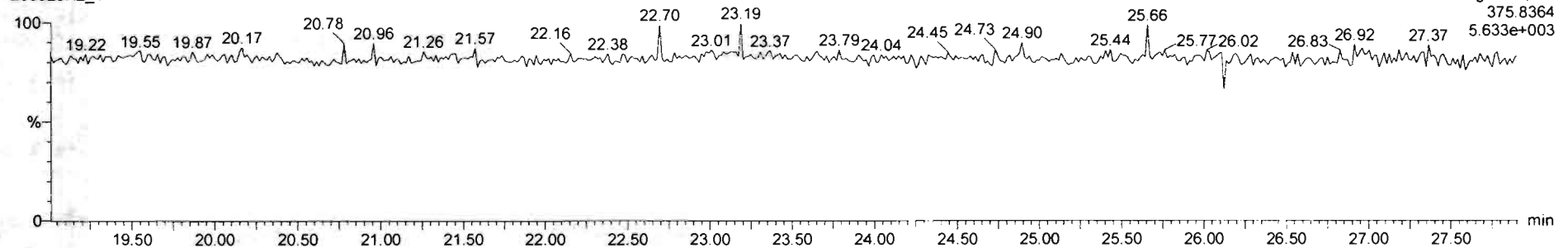


200326R2_1



DPE1

200326R2_1



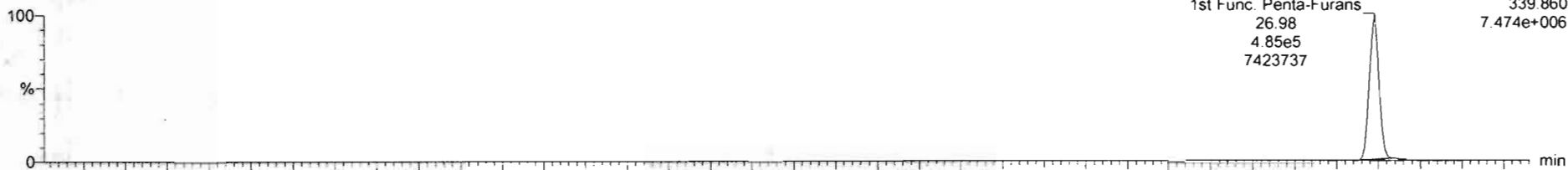
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Last Altered: Thursday, March 26, 2020 14:36:15 Pacific Daylight Time
Printed: Thursday, March 26, 2020 14:36:54 Pacific Daylight Time

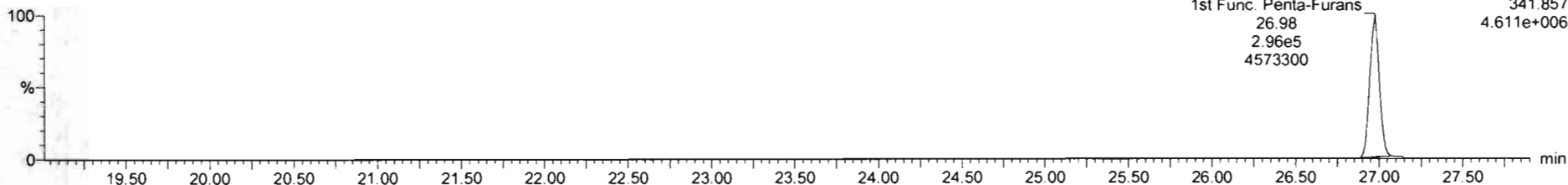
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1st Func. Penta-Furans

200326R2_1

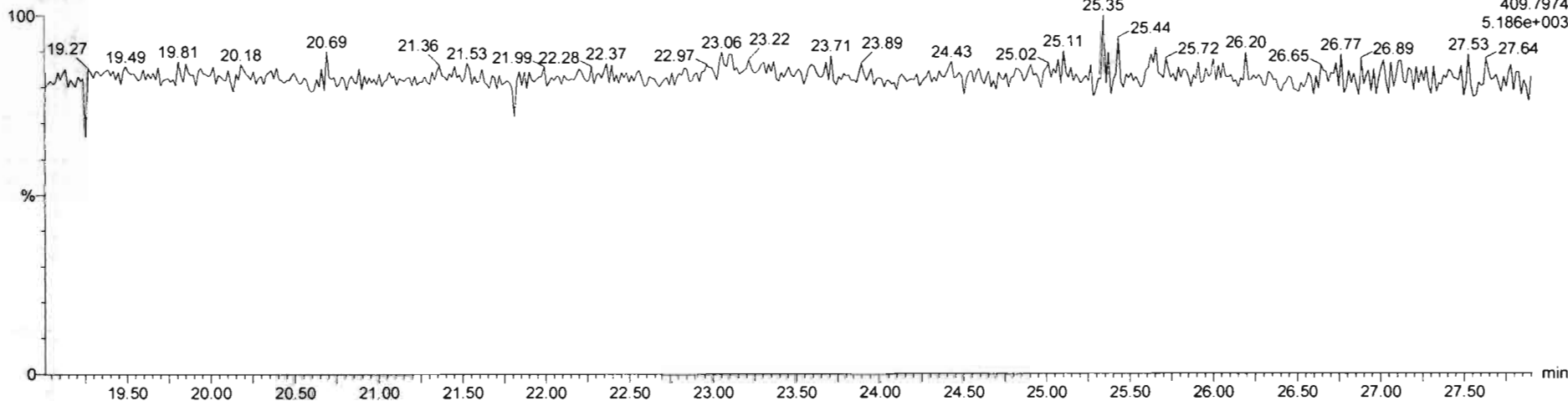


200326R2_1



DPE6

200326R2_1



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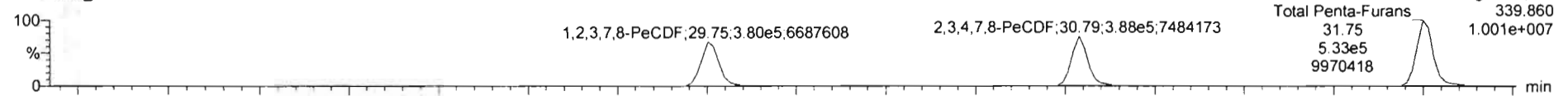
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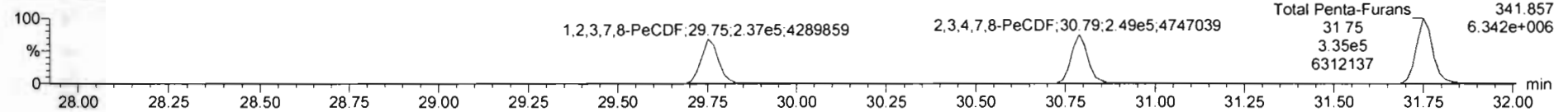
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1,2,3,7,8-PeCDF

200326R2_1

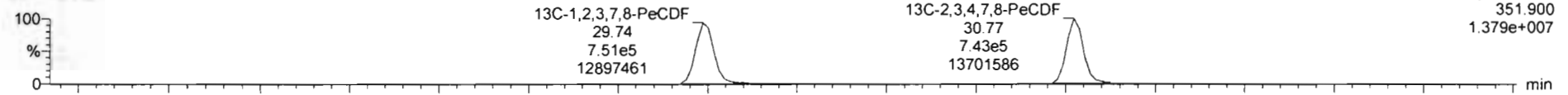


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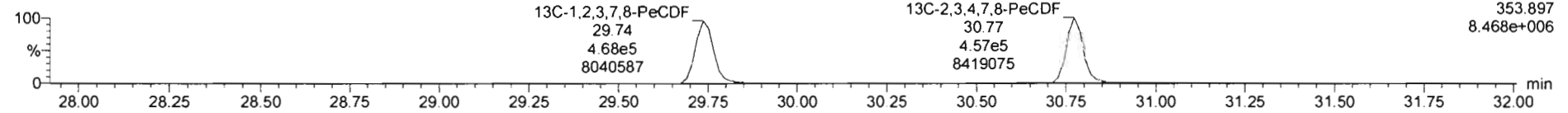


13C-1,2,3,7,8-PeCDF

200326R2_1

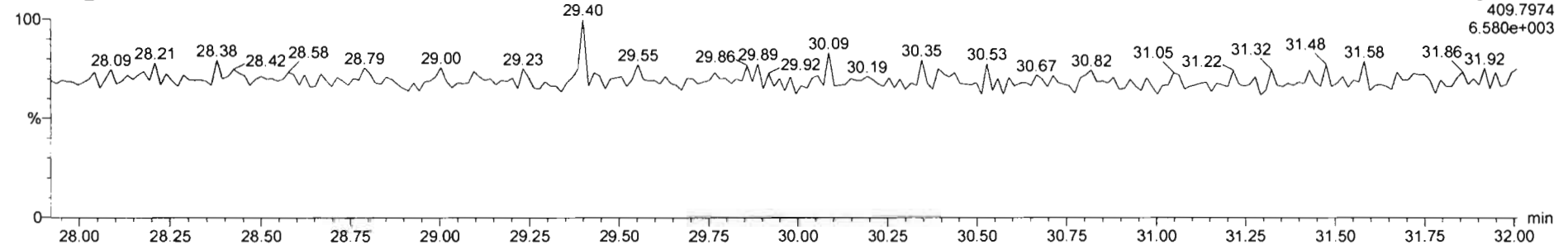


200326R2_1



DPE2

200326R2_1



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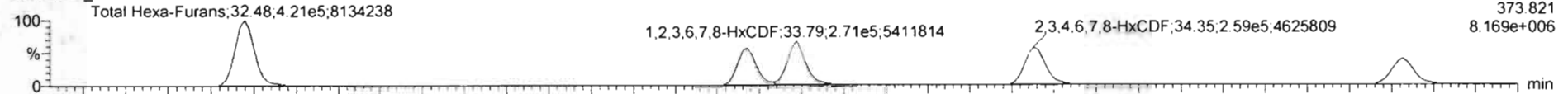
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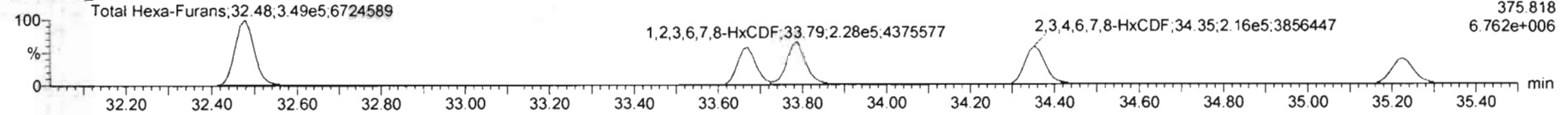
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1,2,3,4,7,8-HxCDF

200326R2_1

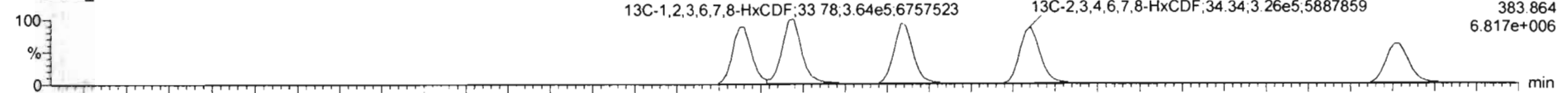


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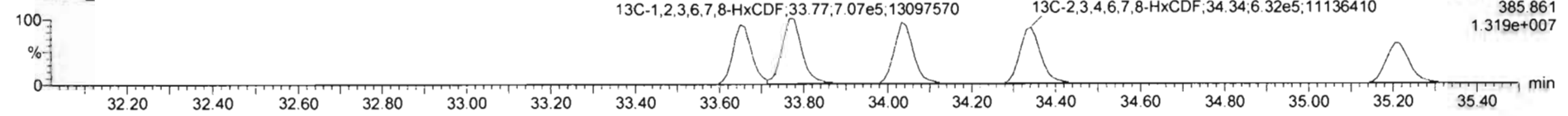


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200326R2_1

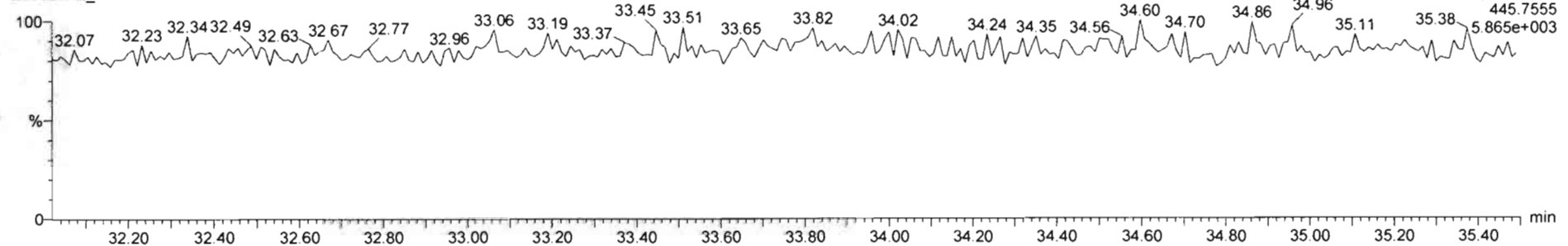


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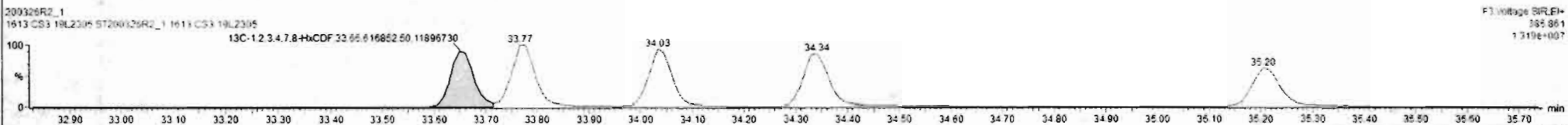
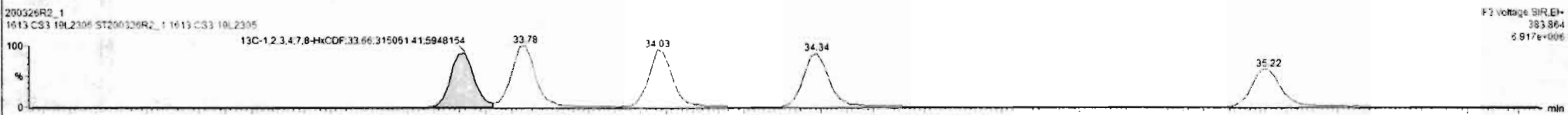
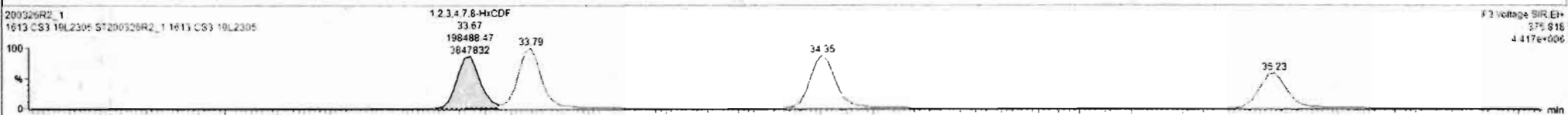
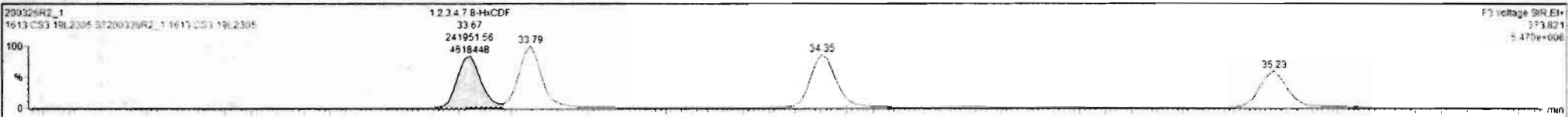


DPE3

200326R2_1

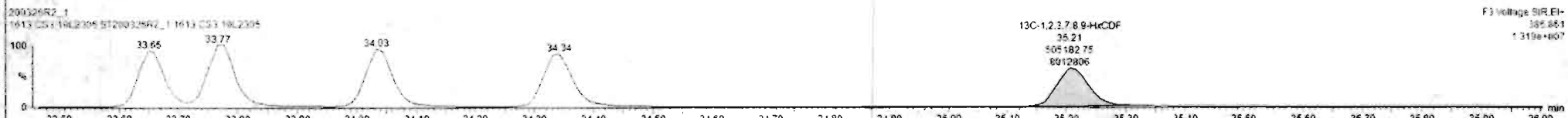
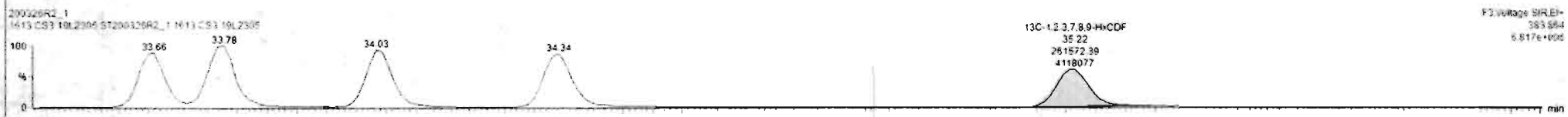
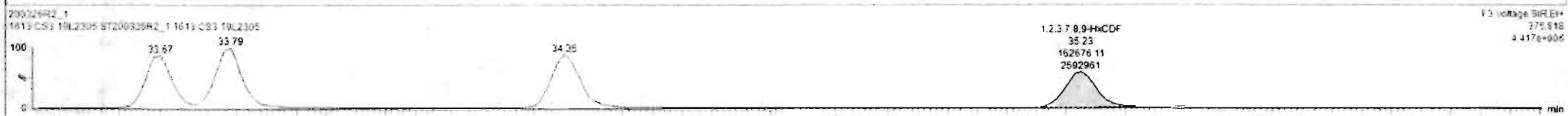
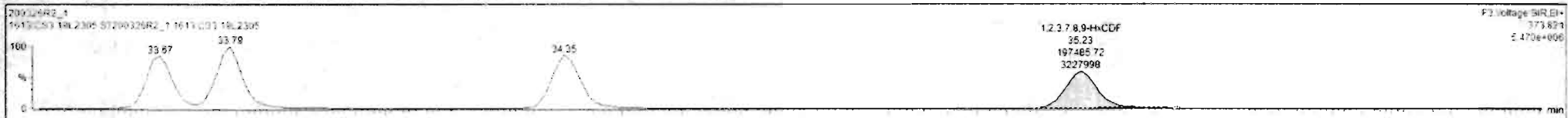


#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	1.07e5	1.01e6	0.77	0.79	NO	0.9835	25.81	25.80	NO	1.001	1.001	10.8	108	NO
2	1,2,3,7,8-PeCDD	3.63e5	5.87e5	0.63	0.64	NO	0.9212	31.12	31.11	NO	1.001	1.000	57.3	115	NO
3	1,2,3,4,7,8-HxCDD	3.54e5	6.27e5	1.24	1.25	NO	1.1325	34.51	34.52	NO	1.000	1.001	49.9	99.8	NO
4	1,2,3,6,7,8-HxCDD	3.85e5	7.84e5	1.24	1.25	NO	0.9244	34.81	34.82	NO	1.000	1.000	49.9	99.8	NO
5	1,2,3,7,8,9-HxCDD	3.46e5	7.15e5	1.24	1.24	NO	0.9674	34.89	34.88	NO	1.000	1.000	50.0	99.9	NO
6	1,2,3,4,6,7,8-HpCDD	2.50e5	5.31e5	1.04	1.02	NO	1.0061	36.30	36.31	NO	1.000	1.001	46.8	93.6	NO
7	OCDD	4.79e5	9.44e5	0.89	0.86	NO	1.0515	41.37	41.36	NO	1.000	1.000	96.6	96.6	NO
8	1,2,3,7,8-TCDF	1.44e5	1.66e6	0.77	0.76	NO	0.9154	24.79	24.79	NO	1.001	1.001	9.46	94.6	NO
9	1,2,3,7,8-PeCDF	5.17e5	1.22e6	1.55	1.60	NO	0.9594	29.78	29.75	NO	1.001	1.001	52.7	105	NO
10	1,2,3,4,7,8-PeCDF	6.37e5	1.20e6	1.55	1.56	NO	1.0035	30.80	30.79	NO	1.001	1.000	52.9	106	NO
11	1,2,3,4,7,8-HxCDF	4.40e5	0.32e5	1.24	1.22	NO	1.0381	33.66	33.67	NO	1.000	1.000	45.5	91.1	NO
12	1,2,3,6,7,8-HxCDF	5.00e5	1.07e5	1.24	1.19	NO	1.0126	33.79	33.79	NO	1.000	1.000	46.1	92.1	NO
13	1,2,3,4,6,7,8-HxCDF	4.74e5	9.58e5	1.24	1.20	NO	1.0920	34.38	34.35	NO	1.001	1.000	45.3	90.7	NO
14	1,2,3,7,8,9-HxCDF	3.60e5	7.67e5	1.24	1.21	NO	1.0268	35.22	35.23	NO	1.000	1.000	45.7	91.5	NO
15	1,2,3,4,6,7,8-HpCDF	3.20e5	6.76e5	1.04	1.00	NO	1.0483	36.92	36.92	NO	1.001	1.001	45.2	90.3	NO
16	1,2,3,4,7,8,9-HpCDF	2.20e5	4.26e5	1.04	0.98	NO	1.2096	38.95	38.96	NO	1.000	1.000	44.7	89.3	NO
17	OCDF	5.25e5	1.23e6	0.89	0.87	NO	0.9462	41.55	41.56	NO	1.000	1.000	96.4	96.4	NO



200326R2_1- ST200326R2_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	1.07e5	1.01e5	0.77	0.79	NO	0.9835	25.81	25.80	NO	1.001	1.001	10.8	108	NO
2	1,2,3,7,8-PeCDD	3.63e5	6.27e5	0.83	0.64	NO	0.9212	31.12	31.11	NO	1.001	1.000	57.3	115	NO
3	1,2,3,4,7,8-HxCDD	3.54e5	6.27e5	1.24	1.25	NO	1.1325	34.51	34.52	NO	1.000	1.001	49.9	99.8	NO
4	1,2,3,6,7,8-HxCDD	3.85e5	7.84e5	1.24	1.25	NO	0.9844	34.81	34.82	NO	1.000	1.000	49.9	99.8	NO
5	1,2,3,7,8,9-HxCDF	3.46e5	7.15e5	1.24	1.24	NO	0.9674	34.89	34.88	NO	1.000	1.000	50.0	99.9	NO
6	1,2,3,4,6,7,8-HpCDD	2.50e5	5.31e5	1.04	1.02	NO	1.0061	36.30	36.31	NO	1.000	1.001	46.8	93.6	NO
7	OCDD	4.79e5	9.44e5	0.89	0.85	NO	1.0515	41.37	41.38	NO	1.000	1.000	96.2	96.6	NO
8	2,3,7,8-TCDF	1.44e5	1.66e5	0.77	0.76	NO	0.9154	24.79	24.79	NO	1.001	1.001	9.46	94.6	NO
9	1,2,3,7,8-PeCDF	6.17e5	1.22e6	1.55	1.60	NO	0.9594	29.76	29.75	NO	1.001	1.001	52.7	105	NO
10	2,3,4,7,8-PeCDF	6.37e5	1.20e6	1.55	1.58	NO	1.0035	30.80	30.79	NO	1.001	1.000	52.9	106	NO
11	1,2,3,4,7,8-HxCDF	4.40e5	9.32e5	1.24	1.22	NO	1.0381	33.66	33.67	NO	1.000	1.000	45.5	91.1	NO
12	1,2,3,6,7,8-HxCDF	5.00e5	1.07e6	1.24	1.19	NO	1.0126	33.79	33.79	NO	1.000	1.000	46.1	92.1	NO
13	2,3,4,6,7,8-HxCDF	4.74e5	9.58e5	1.24	1.25	NO	1.0920	34.38	34.35	NO	1.001	1.000	45.3	90.7	NO
14	1,2,3,7,8,9-HxCDF	3.80e5	7.67e5	1.24	1.21	NO	1.0266	35.22	35.23	NO	1.000	1.000	45.7	91.5	NO
15	1,2,3,4,6,7,8-HpCDF	3.20e5	6.76e5	1.04	1.00	NO	1.0483	36.97	36.92	NO	1.001	1.001	45.2	90.3	NO
16	1,2,3,4,7,8,9-HpCDF	2.30e5	4.26e5	1.04	0.98	NO	1.2099	38.95	38.98	NO	1.000	1.000	44.7	89.3	NO
17	OCDF	5.25e5	1.23e6	0.89	0.87	NO	0.9468	41.55	41.56	NO	1.000	1.000	90.4	90.4	NO



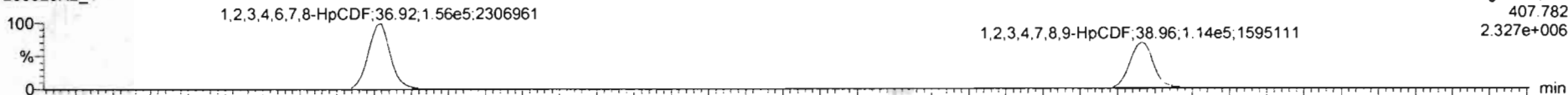
Dataset: Untitled

Last Altered: Thursday, March 26, 2020 14:36:15 Pacific Daylight Time
Printed: Thursday, March 26, 2020 14:36:54 Pacific Daylight Time

Name: 200326R2_1, Date: 26-Mar-2020, Time: 13:40:10, ID: ST200326R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

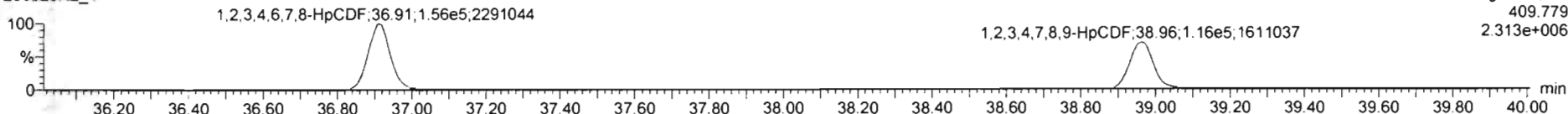
1,2,3,4,6,7,8-HpCDF

200326R2_1



F4: Voltage SIR, EI+
407.782
2.327e+006

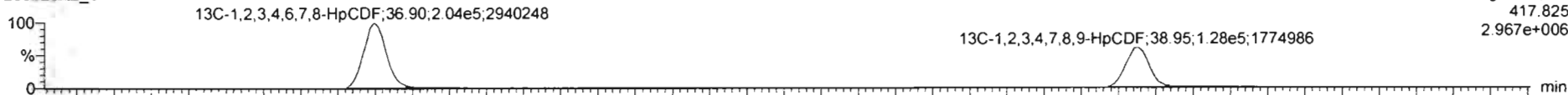
200326R2_1



F4: Voltage SIR, EI+
409.779
2.313e+006

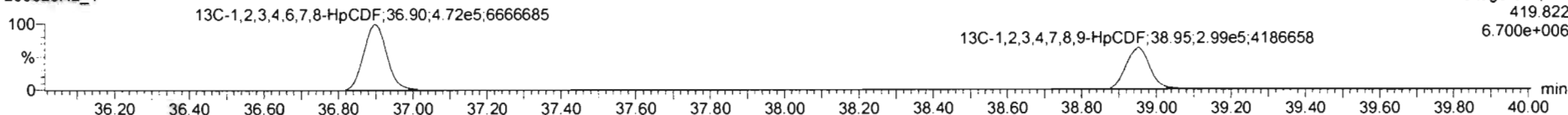
13C-1,2,3,4,6,7,8-HpCDF

200326R2_1



F4: Voltage SIR, EI+
417.825
2.967e+006

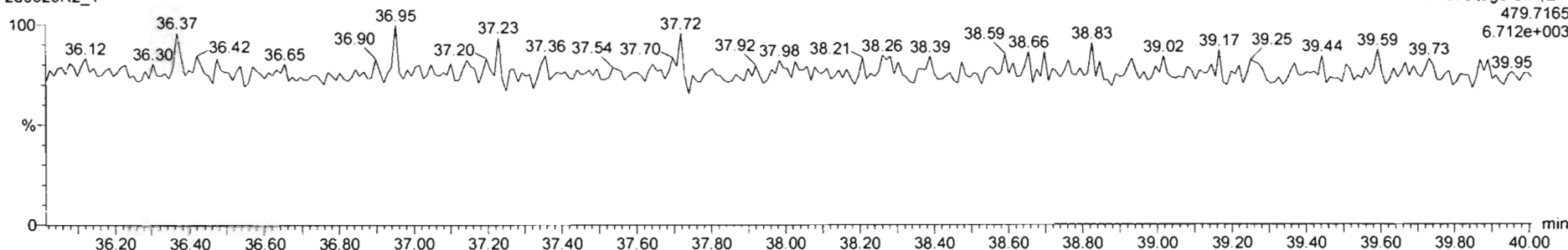
200326R2_1



F4: Voltage SIR, EI+
419.822
6.700e+006

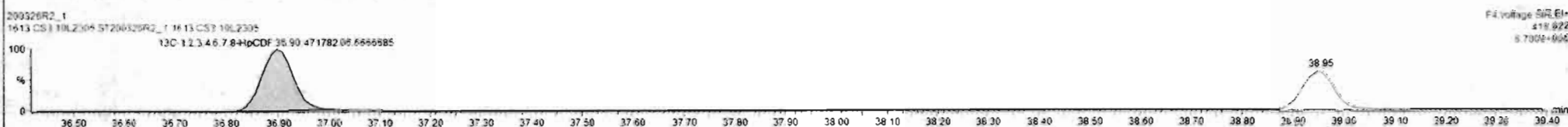
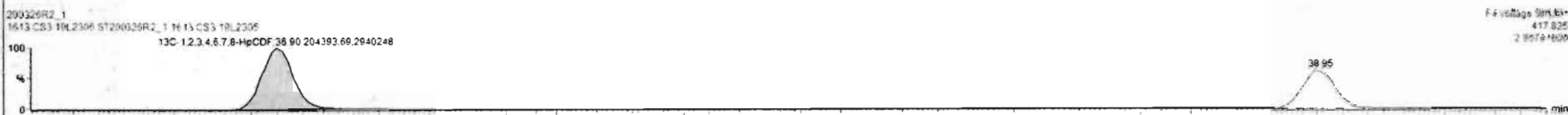
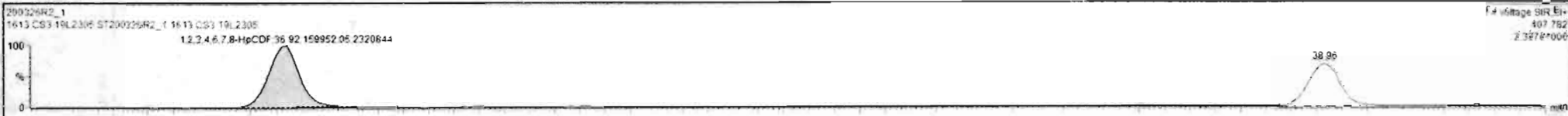
DPE4

200326R2_1



F4: Voltage SIR, EI+
479.7165
6.712e+003

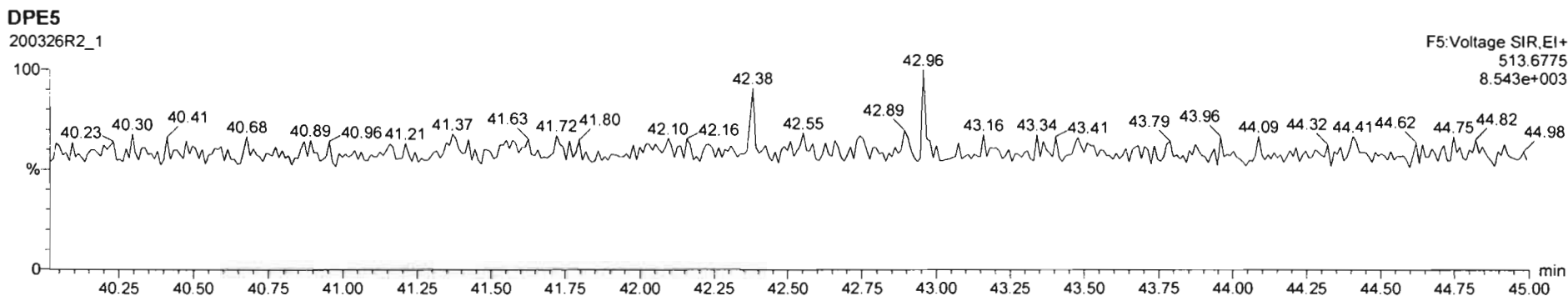
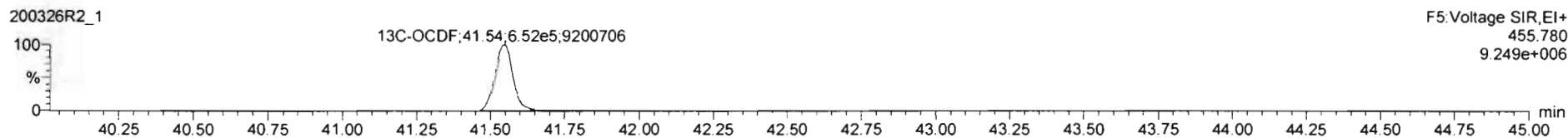
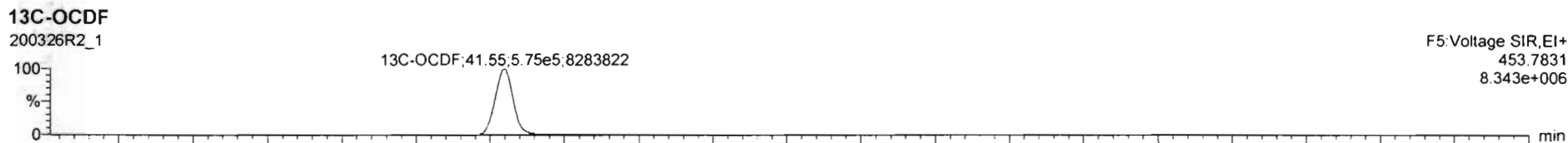
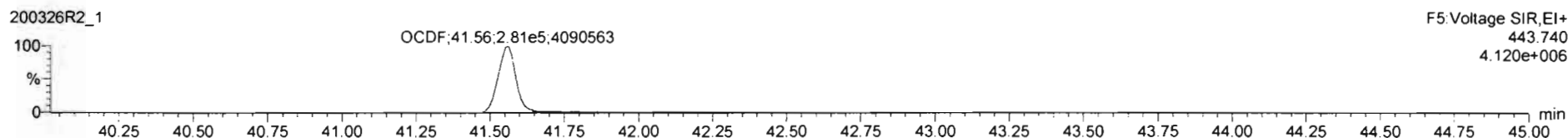
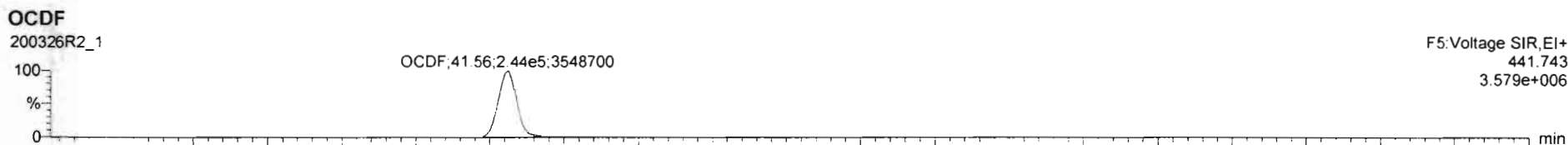
#	Name	Resp	IS Resp	Pred RA	RA	nly	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1.2.3.7.8-TCDD	1.07e5	1.01e6	0.77	0.79	NO	0.9835	25.81	25.80	NO	1.001	1.001	10.8	108	NO
2	1.2.3.7.8-PeCDD	3.83e5	6.87e5	0.83	0.84	NO	0.9212	31.12	31.11	NO	1.001	1.000	57.3	115	NO
3	1.2.3.4.7.8-HxCDD	3.54e5	6.27e5	1.24	1.25	NO	1.1325	34.51	34.52	NO	1.000	1.001	49.9	99.8	NO
4	1.2.3.6.7.8-HxCDD	3.85e5	7.84e5	1.24	1.25	NO	0.9844	34.61	34.62	NO	1.000	1.000	49.9	99.8	NO
5	1.2.3.7.8.9-HxCDD	3.45e5	7.15e5	1.24	1.24	NO	0.9674	34.89	34.88	NO	1.000	1.000	50.0	99.9	NO
6	1.2.3.4.6.7.8-HpCDD	2.50e5	5.31e5	1.24	1.22	NO	1.0261	36.30	36.31	NO	1.000	1.001	46.8	93.6	NO
7	OCDD	4.79e5	9.44e5	0.89	0.88	NO	1.0515	41.37	41.38	NO	1.000	1.000	96.6	96.6	NO
8	1.2.3.7.8-TCDF	1.44e5	1.66e6	0.77	0.78	NO	0.5154	24.79	24.79	NO	1.001	1.001	9.46	94.6	NO
9	1.2.3.7.8-PeCDF	6.17e5	1.22e6	1.55	1.60	NO	0.9594	29.78	29.75	NO	1.001	1.001	52.7	105	NO
10	1.2.3.4.7.8-PeCDF	6.37e5	1.20e6	1.55	1.56	NO	1.0035	30.90	30.79	NO	1.001	1.000	52.9	105	NO
11	1.2.3.4.7.8-HxCDF	4.40e5	9.32e5	1.24	1.22	NO	1.0381	33.66	33.67	NO	1.000	1.000	45.5	91.1	NO
12	1.2.3.6.7.8-HxCDF	5.00e5	1.07e6	1.24	1.19	NO	1.0126	33.79	33.79	NO	1.000	1.000	46.1	92.1	NO
13	1.2.3.4.6.7.8-HxCDF	4.74e5	9.58e5	1.24	1.20	NO	1.0920	34.38	34.35	NO	1.001	1.000	45.3	90.7	NO
14	1.2.3.7.8.9-HxCDF	3.66e5	7.67e5	1.24	1.21	NO	1.0260	35.22	35.23	NO	1.000	1.000	45.7	91.5	NO
15	1.2.3.4.6.7.8-HpCDF	3.20e5	6.70e5	1.04	1.00	NO	1.0483	36.93	36.92	NO	1.001	1.001	45.2	90.3	NO
16	1.2.3.4.7.8.9-HpCDF	2.30e5	4.26e5	1.24	0.98	NO	1.2099	38.95	38.96	NO	1.000	1.000	44.7	89.3	NO
17	OCDF	5.25e5	1.23e6	0.89	0.87	NO	0.9468	41.55	41.56	NO	1.006	1.000	90.4	90.4	NO



Dataset: Untitled

Last Altered: Thursday, March 26, 2020 14:36:15 Pacific Daylight Time
Printed: Thursday, March 26, 2020 14:36:54 Pacific Daylight Time

Name: 200326R2_1, Date: 26-Mar-2020, Time: 13:40:10, ID: ST200326R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200320D17

Reviewed By: C7 03/23/2020
Initials & Date

End Calibration ID: ST200320D1-2

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

	<u>Beg.</u>	<u>End</u>
Mass resolution \geq	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K 1614 1699 429 1613/1668/8280		
Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
GC Break <20%		<input type="checkbox"/> NA
<u>8280 CS1 End Standard:</u>		
- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		<input type="checkbox"/> NA

Comments:

Dataset: U:\VG7.PRO\Results\200320D1\200320D1_2.qld

Last Altered: Friday, March 20, 2020 14:12:06 Pacific Daylight Time
Printed: Friday, March 20, 2020 14:13:08 Pacific Daylight Time

DB 3/20/20 CT03/23/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 20 Mar 2020 11:48:01
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200320D1_2, Date: 20-Mar-2020, Time: 11:21:59, ID: ST200320D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1613 8290

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC		
1	1 2,3,7,8-TCDF	8.08e3	0.78	NO	0.982	1.000	17.119	17.12	1.000	1.001	8.5536	85.5	<i>84-120</i>	0.260	<i>80-120</i>	8.55
2	2 13C-2,3,7,8-TCDF	9.62e4	0.79	NO	1.08	1.000	17.095	17.10	1.133	1.134	105.70	106	<i>71-140</i>	0.528	<i>70-130</i>	
3	3 13C-1,2,3,4-TCDF	8.40e4	0.77	NO	1.00	1.000	15.080	15.08	1.000	1.000	100.00	100		0.572		

Dataset: Untitled

Last Altered: Sunday, March 22, 2020 16:53:34 Pacific Daylight Time

Printed: Sunday, March 22, 2020 16:53:49 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 20 Mar 2020 11:48:01
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

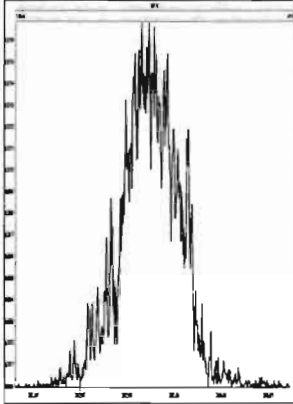
Compound name: 2,3,7,8-TCDF

	Name	ID	Acq.Date	Acq.Time
1	200320D1_1	CP200320D1-1 DB-225 CPSM	20-Mar-20	10:51:50
2	200320D1_2	ST200320D1-1 1613 CS3 19L2305	20-Mar-20	11:21:59
3	200320D1_3	SOLVENT BLANK	20-Mar-20	11:53:41
4	200320D1_4	2000417-03RE2 Dewatered Sludge 11.27	20-Mar-20	12:25:28
5	200320D1_5	B0B0031-DUP1RE1	20-Mar-20	12:57:07
6	200320D1_6	1903736-10RE4 PDI-079SC-B-02-04-191014 ...	20-Mar-20	13:28:49
7	200320D1_7	2000144-01RE1 PDI-052SC-A-06-07-191015 ...	20-Mar-20	14:00:33
8	200320D1_8	2000144-02RE1 PDI-055SC-A-02-03-191015 ...	20-Mar-20	14:32:15
9	200320D1_9	2000144-03RE1 PDI-055SC-A-03-04-191015 ...	20-Mar-20	15:03:58
10	200320D1_10	2000144-07RE1 PDI-079SC-A-08-09-191014 ...	20-Mar-20	15:35:39
11	200320D1_11	2000144-09RE1 PDI-081SC-A-08-09-191002 ...	20-Mar-20	16:07:21
12	200320D1_12	2000144-10RE1 PDI-081SC-A-09-10-191002 ...	20-Mar-20	16:39:02
13	200320D1_13	2000144-11RE1 PDI-082SC-A-04-05-191002 ...	20-Mar-20	17:10:45
14	200320D1_14	2000144-12RE1 PDI-082SC-A-05-06-191002 ...	20-Mar-20	17:42:26
15	200320D1_15	2000144-13RE1 PDI-084SC-A-01-02-191002 ...	20-Mar-20	18:14:08
16	200320D1_16	2000144-14RE1 PDI-084SC-A-02-03-191002 ...	20-Mar-20	18:45:48
17	200320D1_17	2000142-02RE1 PDI-014SC-A-02-03-191003 ...	20-Mar-20	19:17:32
18	200320D1_18	2000142-03RE1 PDI-014SC-A-03-04-191003 ...	20-Mar-20	19:49:10
19	200320D1_19	2000142-04RE1 PDI-016SC-A-02-03-191009 ...	20-Mar-20	20:20:53
20	200320D1_20	2000142-05RE1 PDI-017SC-A-00-01-191003 ...	20-Mar-20	20:52:35
21	200320D1_21	2000142-11RE1 PDI-020SC-A-00-01-191008 ...	20-Mar-20	21:24:18
22	200320D1_22	2000142-12RE1 PDI-020SC-A-01-02-191008 ...	20-Mar-20	21:55:59
23	200320D1_23	2000142-20RE1 PDI-028SC-A-10-11-191003 ...	20-Mar-20	22:27:41
24	200320D1_24	SOLVENT BLANK	20-Mar-20	22:59:22
25	200320D1_25	ST200320D1-2 1613 CS3 19L2305	20-Mar-20	23:31:06

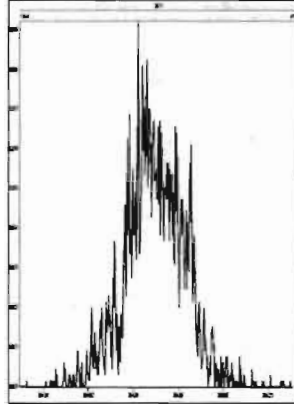
File: Experiment: tcdf_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Friday, March 20, 2020 10:50:23 Pacific Daylight Time

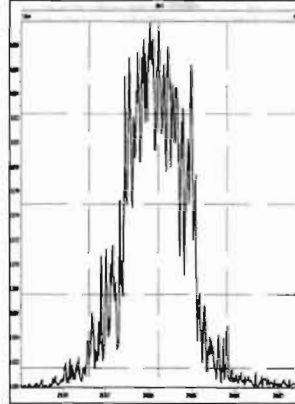
M 292.9824 R 11161



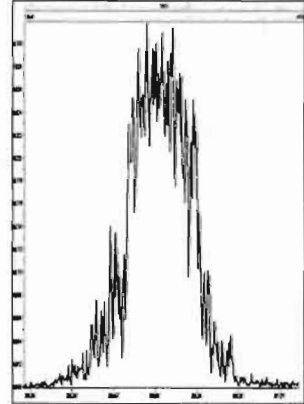
M 304.9824 R 11519



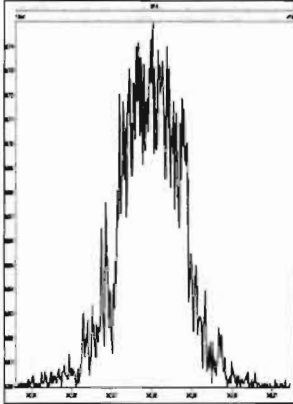
M 318.9792 R 10550



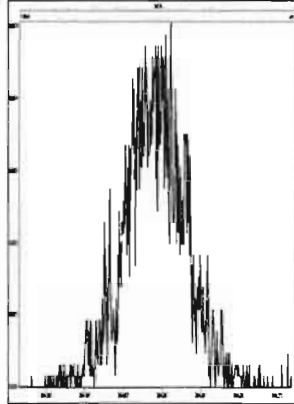
M 330.9792 R 11261



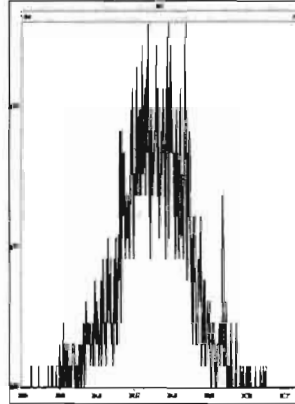
M 342.9792 R 11260



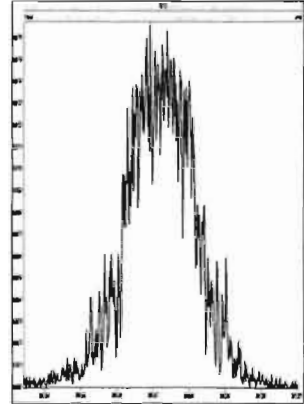
M 354.9792 R 14622

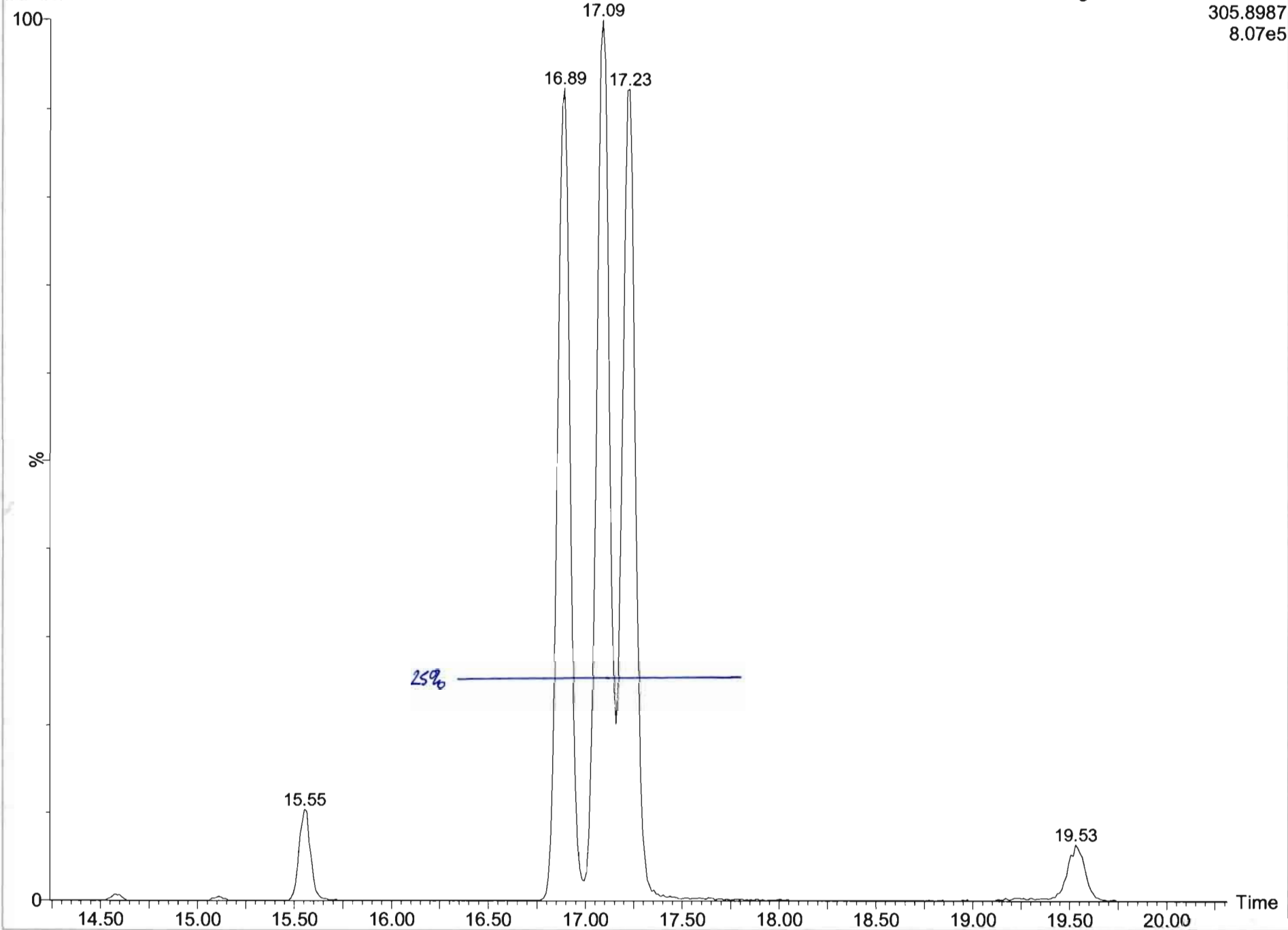


M 366.9792 R 10917



M 380.9760 R 10244





Dataset: U:\VG7.PRO\Results\200320D1\200320D1_1.qld

Last Altered: Friday, March 20, 2020 11:24:27 Pacific Daylight Time

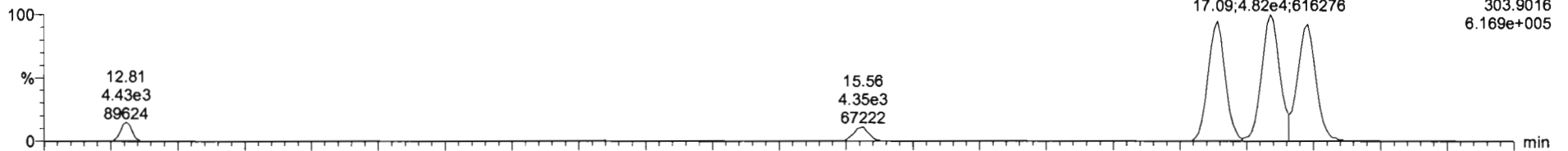
Printed: Friday, March 20, 2020 11:32:14 Pacific Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\tcdf.mdb 13 Mar 2020 14:29:54
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

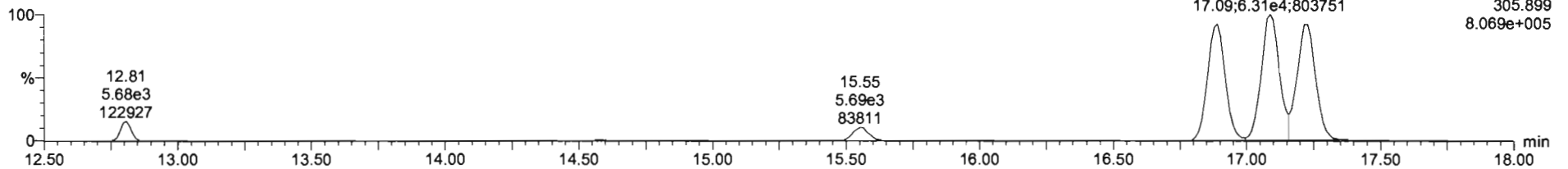
Name: 200320D1_1, Date: 20-Mar-2020, Time: 10:51:50, ID: CP200320D1-1 DB-225 CPSM, Description: DB-225 CPSM

2,3,7,8-TCDF

200320D1_1

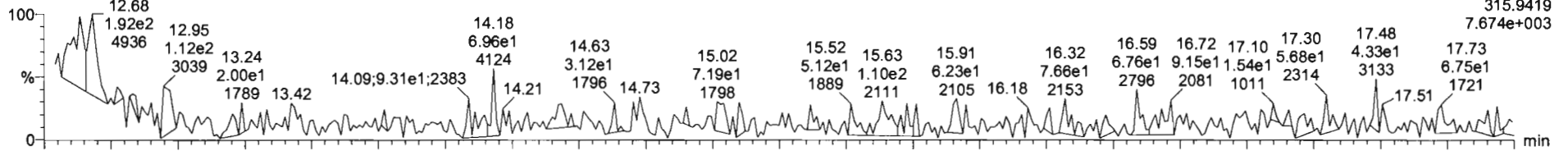


200320D1_1

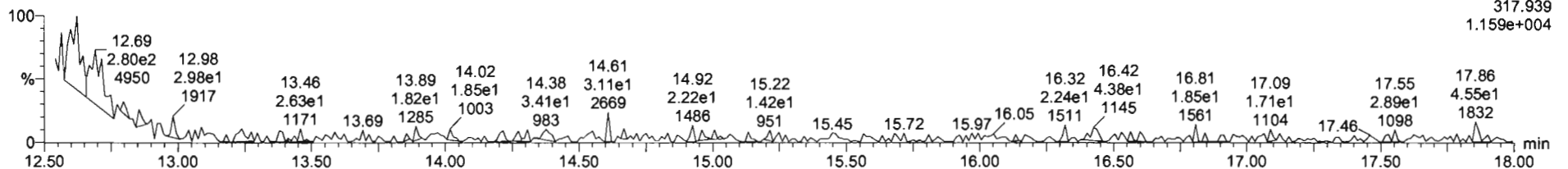


13C-2,3,7,8-TCDF

200320D1_1



200320D1_1

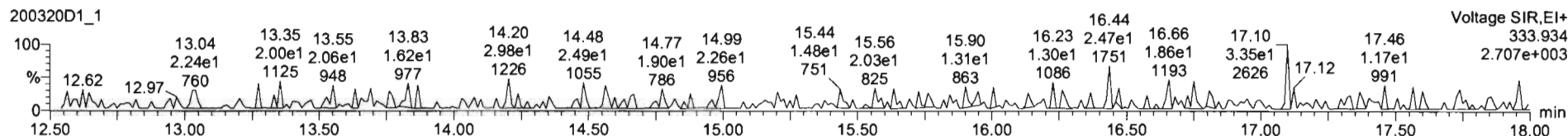
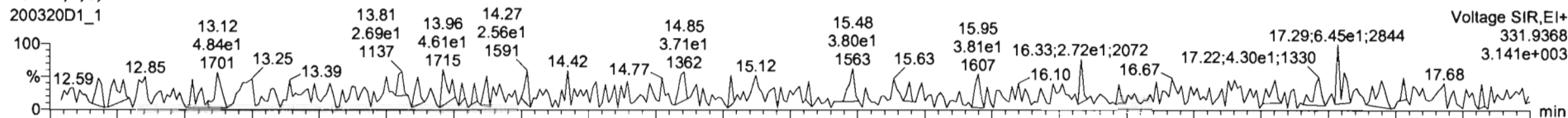


Dataset: U:\VG7.PRO\Results\200320D1\200320D1_1.qld

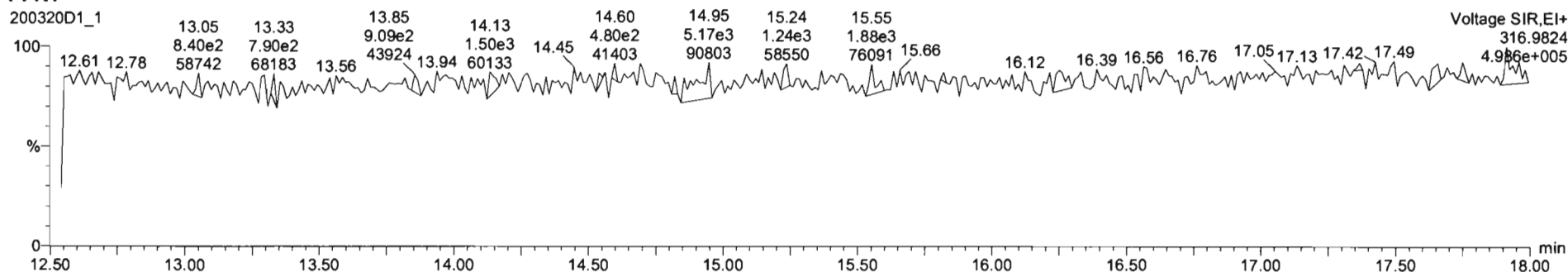
Last Altered: Friday, March 20, 2020 11:24:27 Pacific Daylight Time
Printed: Friday, March 20, 2020 11:32:14 Pacific Daylight Time

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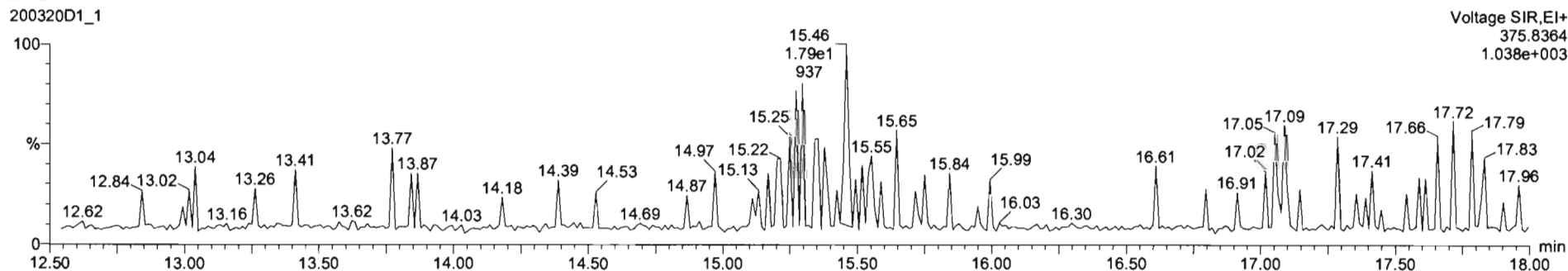
13C-1,2,3,4-TCDD



PFK1



DPE1



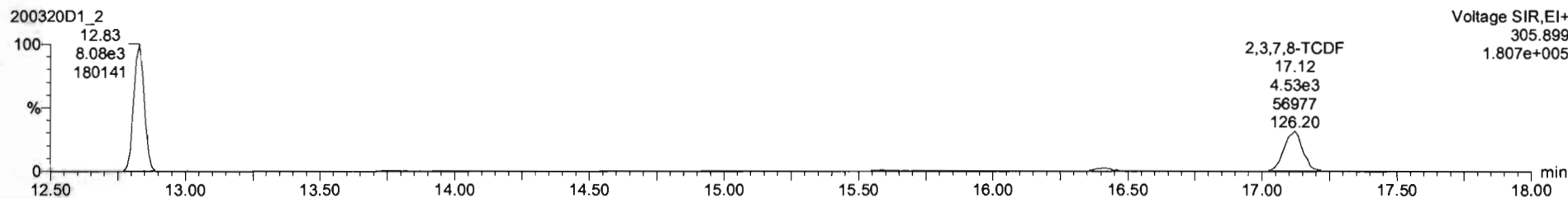
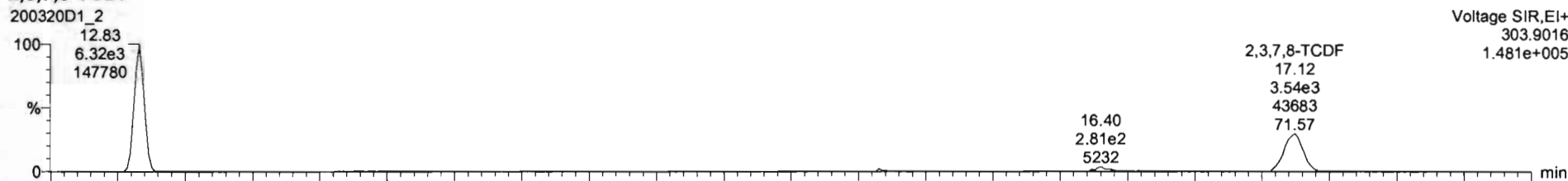
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Last Altered: Friday, March 20, 2020 14:12:06 Pacific Daylight Time
Printed: Friday, March 20, 2020 14:13:28 Pacific Daylight Time

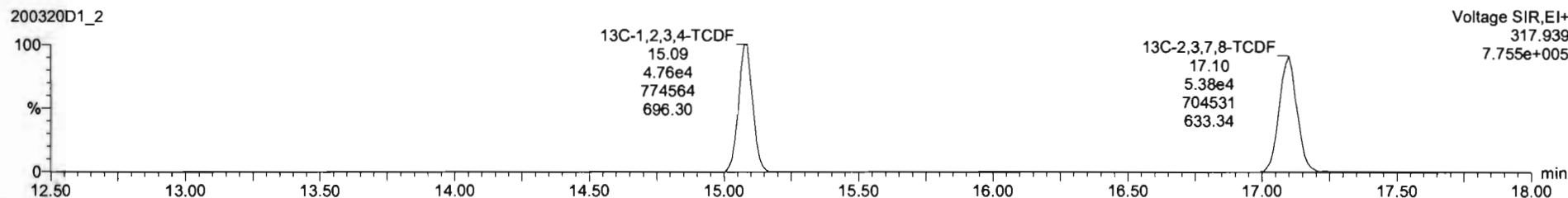
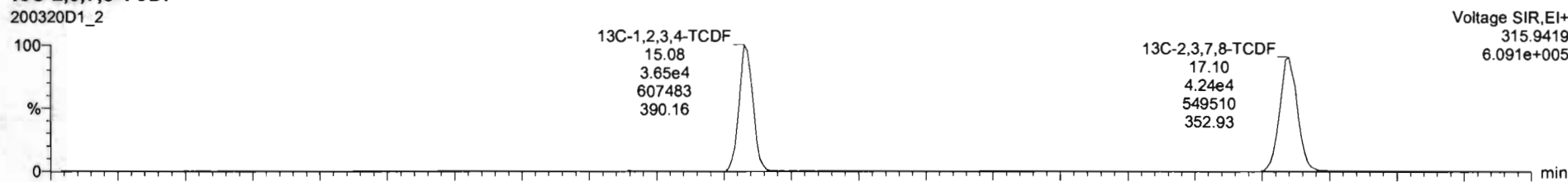
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 20 Mar 2020 11:48:01
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200320D1_2, Date: 20-Mar-2020, Time: 11:21:59, ID: ST200320D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDF



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



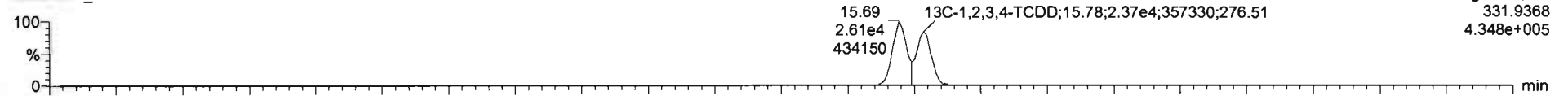
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Last Altered: Friday, March 20, 2020 14:12:06 Pacific Daylight Time
Printed: Friday, March 20, 2020 14:13:28 Pacific Daylight Time

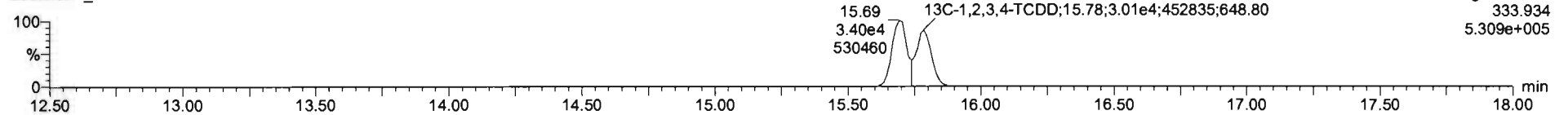
Name: 200320D1_2, Date: 20-Mar-2020, Time: 11:21:59, ID: ST200320D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200320D1_2

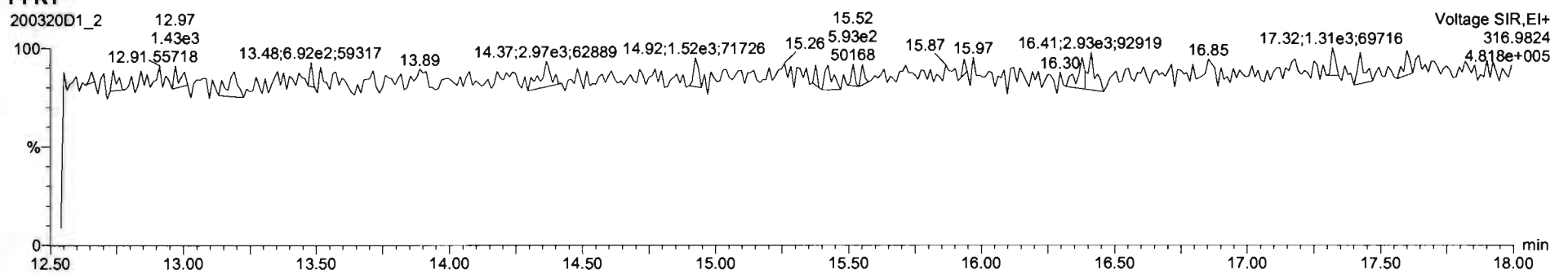


200320D1_2



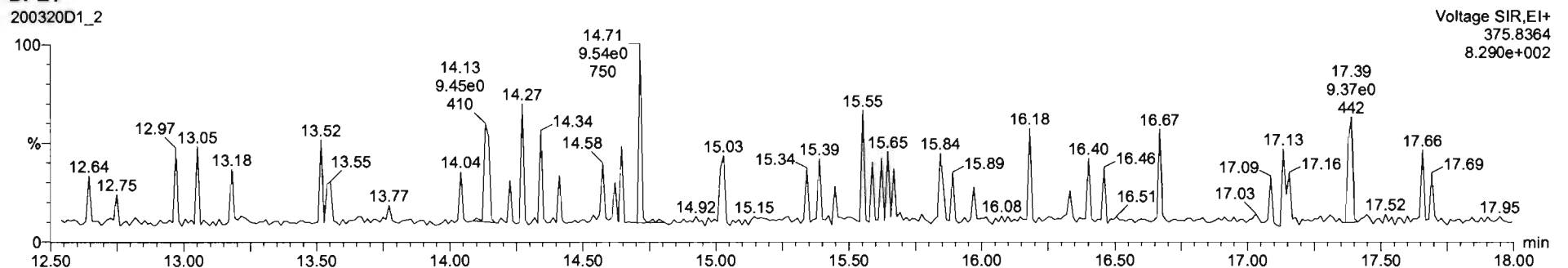
PFK1

200320D1_2



DPE1

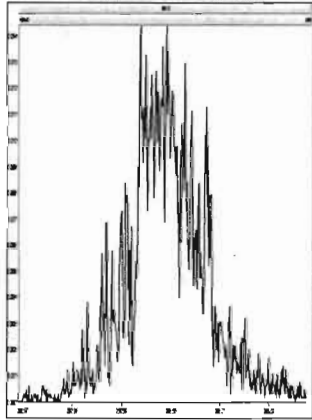
200320D1_2



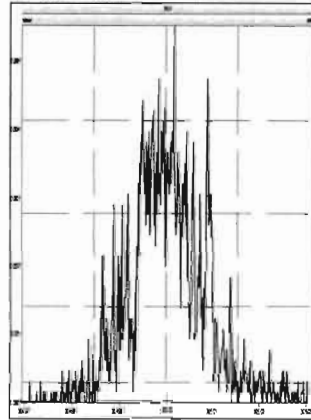
File: Experiment: tcdf_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Saturday, March 21, 2020 00:04:50 Pacific Daylight Time

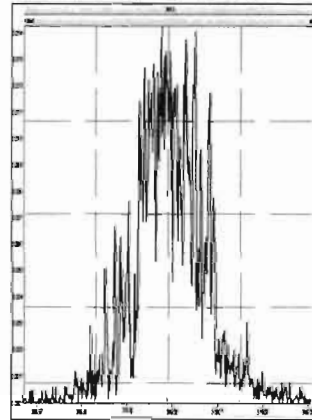
M 292.9824 R 10505



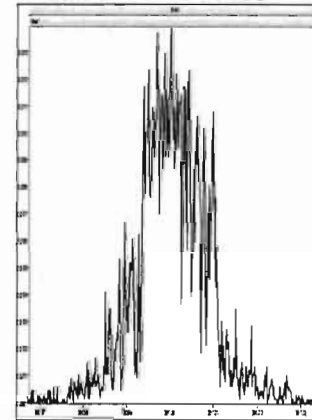
M 304.9824 R 10547



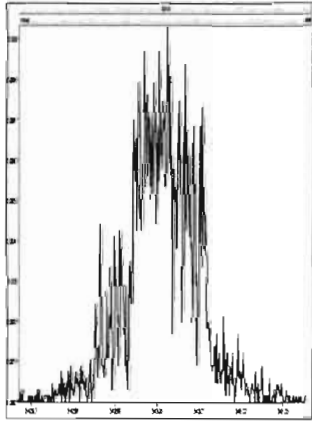
M 318.9792 R 10546



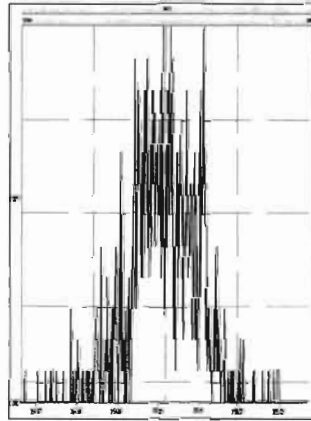
M 330.9792 R 11469



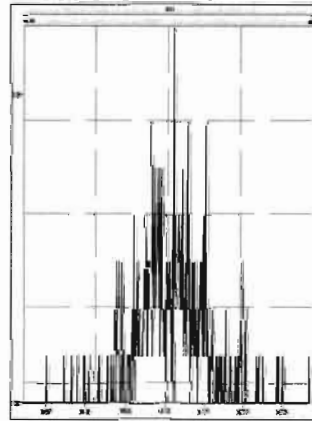
M 342.9792 R 14792



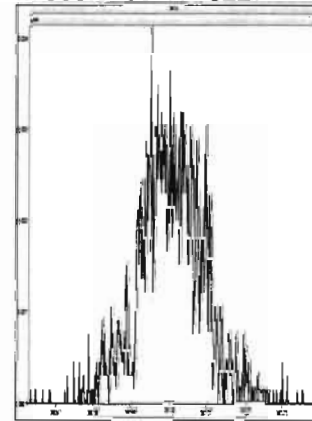
M 354.9792 R 17119



M 366.9792 R 18798



M 380.9760 R 13227



INITIAL CALIBRATION

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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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

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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

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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	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

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

Response Factor: 0.915401

RRF SD: 0.0583768, Relative SD: 6.37719

Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	0.250	0.84	NO	24.87	1.001	3.09e3	1.43e6	0.235	-5.9	0.861	MM
2	200306R2_2	0.500	0.78	NO	24.82	1.001	7.23e3	1.45e6	0.546	9.2	1.00	bb
3	200306R2_3	2.00	0.78	NO	24.82	1.001	2.69e4	1.38e6	2.14	6.8	0.978	bb
4	200306R2_4	10.0	0.77	NO	24.84	1.001	1.28e5	1.46e6	9.56	-4.4	0.875	bb
5	200306R2_5	40.0	0.77	NO	24.82	1.001	6.19e5	1.74e6	38.8	-3.1	0.887	bb
6	200306R2_6	300	0.77	NO	24.82	1.001	4.83e6	1.81e6	292	-2.7	0.891	bb

Compound name: 1,2,3,7,8-PeCDF

Response Factor: 0.959427

RRF SD: 0.0433152, Relative SD: 4.51469

Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	1.25	1.49	NO	29.68	1.000	1.28e4	1.13e6	1.18	-5.5	0.906	MM
2	200306R2_2	2.50	1.64	NO	29.63	1.000	2.70e4	1.07e6	2.63	5.3	1.01	bb
3	200306R2_3	10.0	1.54	NO	29.65	1.000	1.01e5	9.93e5	10.6	5.7	1.01	MM
4	200306R2_4	50.0	1.55	NO	29.66	1.001	6.19e5	1.30e6	49.4	-1.1	0.948	bb
5	200306R2_5	200	1.56	NO	29.65	1.000	2.60e6	1.38e6	196	-1.9	0.941	bb
6	200306R2_6	1500	1.53	NO	29.66	1.000	2.21e7	1.58e6	1460	-2.4	0.936	bb

Compound name: 2,3,4,7,8-PeCDF

Response Factor: 1.00349

RRF SD: 0.0546018, Relative SD: 5.44122

Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	1.25	1.61	NO	30.70	1.000	1.23e4	1.05e6	1.17	-6.4	0.940	MM
2	200306R2_2	2.50	1.54	NO	30.65	1.000	2.75e4	1.02e6	2.70	8.1	1.08	bb

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

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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

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

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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

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

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Compound name: 1,2,3,4,6,7,8-HpCDF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200306R2_3	10.0	1.01	NO	36.79	1.000	5.42e4	4.96e5	10.4	4.2	1.09	bb
4	200306R2_4	50.0	1.00	NO	36.79	1.000	3.53e5	7.08e5	47.5	-5.0	0.996	bb
5	200306R2_5	200	1.00	NO	36.79	1.000	1.46e6	7.21e5	193	-3.6	1.01	bb
6	200306R2_6	1500	1.01	NO	36.80	1.000	1.31e7	8.61e5	1450	-3.2	1.02	bb

Compound name: 1,2,3,4,7,8,9-HpCDF

Response Factor: 1.2099

RRF SD: 0.0633946, Relative SD: 5.23967

Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	1.25	0.94	NO	38.85	1.001	4.87e3	3.35e5	1.20	-3.8	1.16	bb
2	200306R2_2	2.50	0.98	NO	38.82	1.000	1.18e4	3.60e5	2.72	8.8	1.32	bb
3	200306R2_3	10.0	0.98	NO	38.82	1.000	4.25e4	3.38e5	10.4	4.1	1.26	bb
4	200306R2_4	50.0	1.00	NO	38.82	1.000	2.73e5	4.70e5	48.0	-4.0	1.16	bb
5	200306R2_5	200	1.01	NO	38.82	1.000	1.18e6	4.99e5	195	-2.3	1.18	bb
6	200306R2_6	1500	1.01	NO	38.83	1.000	1.06e7	6.02e5	1460	-2.8	1.18	bb

Compound name: OCDF

Response Factor: 0.946773

RRF SD: 0.0474682, Relative SD: 5.01368

Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	2.50	0.83	NO	41.43	1.000	9.98e3	8.40e5	2.51	0.4	0.950	MM
2	200306R2_2	5.00	0.93	NO	41.40	1.000	2.36e4	9.23e5	5.39	7.8	1.02	bb
3	200306R2_3	20.0	0.89	NO	41.40	1.000	8.67e4	8.82e5	20.8	3.9	0.983	bb
4	200306R2_4	100	0.88	NO	41.41	1.000	5.44e5	1.20e6	95.4	-4.6	0.904	bb
5	200306R2_5	400	0.88	NO	41.40	1.000	2.61e6	1.42e6	387	-3.2	0.917	bb
6	200306R2_6	3000	0.89	NO	41.42	1.000	2.37e7	1.75e6	2870	-4.3	0.906	bb

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

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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

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

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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

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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

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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

Last Altered: Monday, March 09, 2020 08:18:02 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:33:03 Pacific Daylight Time

Compound name: 13C-1,2,3,4,7,8,9-HpCDF

Response Factor: 0.519283

RRF SD: 0.0710328, Relative SD: 13.679

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	100	0.45	NO	38.83	1.145	3.35e5	6.43e5	100	0.2	0.521	bd
2	200306R2_2	100	0.45	NO	38.80	1.145	3.60e5	7.96e5	87.0	-13.0	0.452	bd
3	200306R2_3	100	0.44	NO	38.81	1.145	3.38e5	7.60e5	85.6	-14.4	0.444	bd
4	200306R2_4	100	0.45	NO	38.81	1.145	4.70e5	9.06e5	99.9	-0.1	0.519	bb
5	200306R2_5	100	0.44	NO	38.81	1.145	4.99e5	9.24e5	104	3.9	0.540	bb
6	200306R2_6	100	0.45	NO	38.82	1.145	6.02e5	9.40e5	123	23.3	0.640	bb

Compound name: 13C-OCDF

Response Factor: 0.696311

RRF SD: 0.133796, Relative SD: 19.215

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	200	0.88	NO	41.42	1.221	8.40e5	6.43e5	188	-6.2	0.653	bb
2	200306R2_2	200	0.90	NO	41.38	1.221	9.23e5	7.96e5	167	-16.7	0.580	bb
3	200306R2_3	200	0.86	NO	41.39	1.221	8.82e5	7.60e5	167	-16.6	0.581	bb
4	200306R2_4	200	0.89	NO	41.40	1.222	1.20e6	9.06e5	191	-4.6	0.664	bb
5	200306R2_5	200	0.89	NO	41.39	1.222	1.42e6	9.24e5	221	10.7	0.771	bb
6	200306R2_6	200	0.89	NO	41.41	1.222	1.75e6	9.40e5	267	33.4	0.929	bb

Compound name: 37Cl-2,3,7,8-TCDD

Response Factor: 1.17455

RRF SD: 0.0840795, Relative SD: 7.15847

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	0.250			25.84	1.030	2.53e3	7.81e5	0.276	10.3	1.30	bb
2	200306R2_2	0.500			25.78	1.029	5.58e3	9.79e5	0.486	-2.9	1.14	bb

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

Last Altered: Monday, March 09, 2020 08:18:02 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:33:03 Pacific Daylight Time

Compound name: 37Cl-2,3,7,8-TCDD

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200306R2_3	2.00			25.80	1.029	1.94e4	9.27e5	1.78	-11.1	1.04	bb
4	200306R2_4	10.0			25.80	1.029	1.11e5	9.40e5	10.1	0.8	1.18	bb
5	200306R2_5	40.0			25.80	1.029	4.97e5	1.07e6	39.5	-1.4	1.16	bb
6	200306R2_6	200			25.80	1.029	2.63e6	1.07e6	208	4.2	1.22	bb

Compound name: 13C-1,2,3,4-TCDD

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	100	0.81	NO	25.09	1.000	7.81e5	7.81e5	100	0.0	1.00	bb
2	200306R2_2	100	0.80	NO	25.06	1.000	9.79e5	9.79e5	100	0.0	1.00	bb
3	200306R2_3	100	0.80	NO	25.08	1.000	9.27e5	9.27e5	100	0.0	1.00	bb
4	200306R2_4	100	0.78	NO	25.08	1.000	9.40e5	9.40e5	100	0.0	1.00	bb
5	200306R2_5	100	0.81	NO	25.06	1.000	1.07e6	1.07e6	100	0.0	1.00	bb
6	200306R2_6	100	0.79	NO	25.06	1.000	1.07e6	1.07e6	100	0.0	1.00	bb

Compound name: 13C-1,2,3,4-TCDF

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	100	0.80	NO	23.24	1.000	1.19e6	1.19e6	100	0.0	1.00	bb
2	200306R2_2	100	0.79	NO	23.21	1.000	1.48e6	1.48e6	100	0.0	1.00	bb
3	200306R2_3	100	0.81	NO	23.21	1.000	1.43e6	1.43e6	100	0.0	1.00	bb
4	200306R2_4	100	0.79	NO	23.22	1.000	1.27e6	1.27e6	100	0.0	1.00	bb
5	200306R2_5	100	0.79	NO	23.21	1.000	1.56e6	1.56e6	100	0.0	1.00	bb
6	200306R2_6	100	0.79	NO	23.19	1.000	1.62e6	1.62e6	100	0.0	1.00	bb

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

Last Altered: Monday, March 09, 2020 08:18:02 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:33:03 Pacific Daylight Time

Compound name: 13C-1,2,3,4,6,9-HxCDF

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	100	0.51	NO	33.91	1.000	6.43e5	6.43e5	100	0.0	1.00	bb
2	200306R2_2	100	0.52	NO	33.88	1.000	7.96e5	7.96e5	100	0.0	1.00	bb
3	200306R2_3	100	0.51	NO	33.89	1.000	7.60e5	7.60e5	100	0.0	1.00	bb
4	200306R2_4	100	0.52	NO	33.89	1.000	9.06e5	9.06e5	100	0.0	1.00	bb
5	200306R2_5	100	0.52	NO	33.88	1.000	9.24e5	9.24e5	100	0.0	1.00	bb
6	200306R2_6	100	0.52	NO	33.89	1.000	9.40e5	9.40e5	100	0.0	1.00	bb

Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:43:03 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:45:55 Pacific Daylight Time

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

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

	Name	ID	Acq.Date	Acq.Time
1	200306R2_1	ST200306R2_1 1613 CS0 19L2302	06-Mar-20	13:08:38
2	200306R2_2	ST200306R2_2 1613 CS1 19L2303	06-Mar-20	13:58:25
3	200306R2_3	ST200306R2_3 1613 CS2 19L2304	06-Mar-20	14:44:37
4	200306R2_4	ST200306R2_4 1613 CS3 19L2305	06-Mar-20	15:32:12
5	200306R2_5	ST200306R2_5 1613 CS4 19L2306	06-Mar-20	16:19:37
6	200306R2_6	ST200306R2_6 1613 CS5 19L2307	06-Mar-20	17:07:03
7	200306R2_7	SOLVENT BLANK	06-Mar-20	17:56:11
8	200306R2_8	SS200306R2_1 1613 SSS 19L2308	06-Mar-20	18:42:29
9	200306R2_9	SOLVENT BLANK	06-Mar-20	19:38:48
10	200306R2_10	2000406-09 PDI-049SC-A-04-05-191015 16.98	06-Mar-20	20:25:03
11	200306R2_11	2000406-10 PDI-049SC-A-05-06-191015 16.09	06-Mar-20	21:12:36
12	200306R2_12	2000406-11 PDI-049SC-A-06-07-191015 13.96	06-Mar-20	22:00:09
13	200306R2_13	2000406-12 PDI-049SC-A-07-08-191015 12.78	06-Mar-20	22:47:33
14	200306R2_14	2000406-13 PDI-059SC-A-11-12-191016 13.47	06-Mar-20	23:35:07
15	200306R2_15	2000406-14 PDI-084SC-A-03-04-191002 18.94	07-Mar-20	00:22:31
16	200306R2_16	2000406-15 PDI-084SC-A-04-05-191002 17.76	07-Mar-20	01:09:56

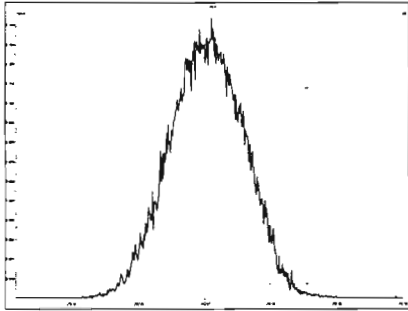
Experiment Calibration Report

MassLynx 4.1 SCN815

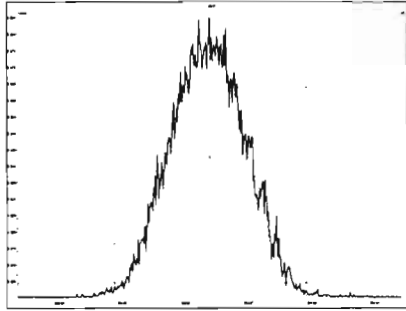
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Friday, March 06, 2020 13:05:44 Pacific Standard Time

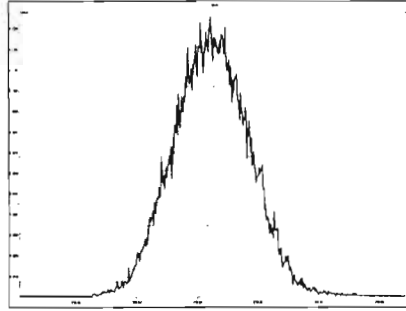
M 292.9824 R 11365



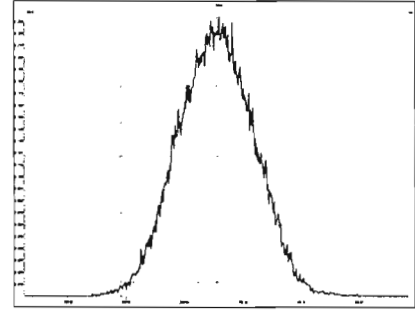
M 304.9824 R 11904



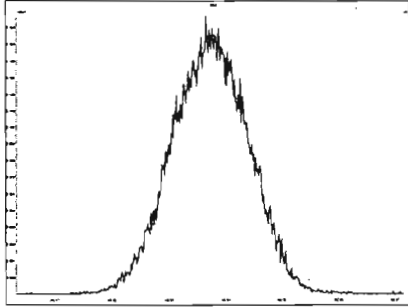
M 318.9792 R 11471



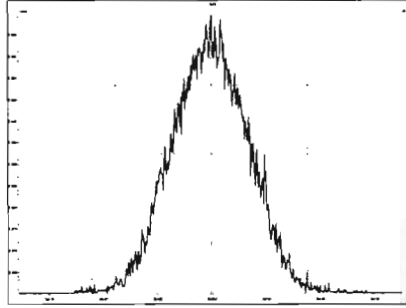
M 330.9792 R 10961



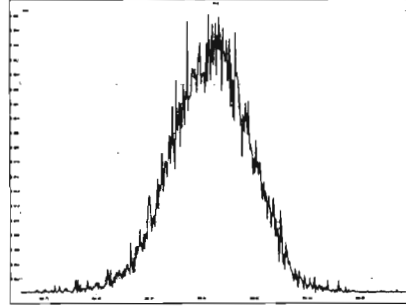
M 342.9792 R 11061



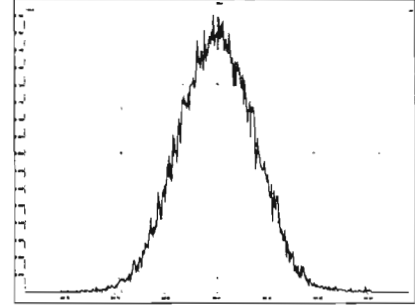
M 354.9792 R 11365



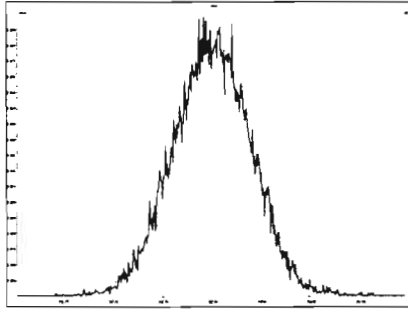
M 366.9792 R 10460



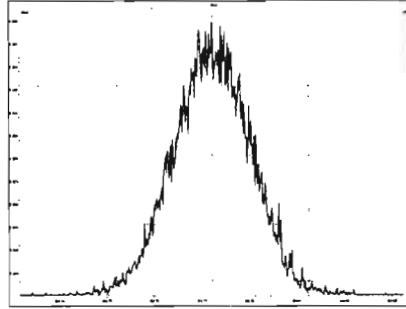
M 380.9760 R 11016



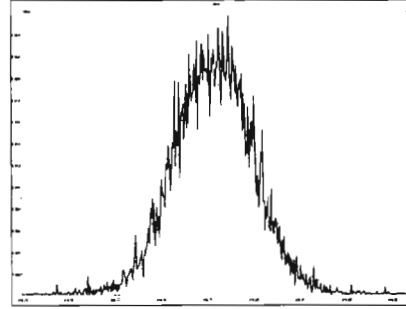
M 392.9760 R 10594



M 404.9760 R 11260



M 416.9760 R 11465



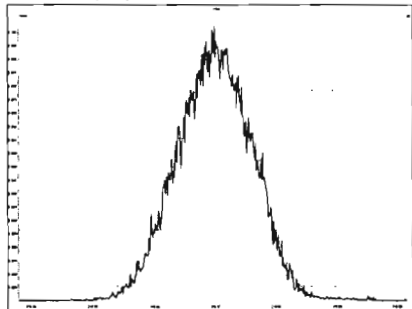
Experiment Calibration Report

MassLynx 4.1 SCN815

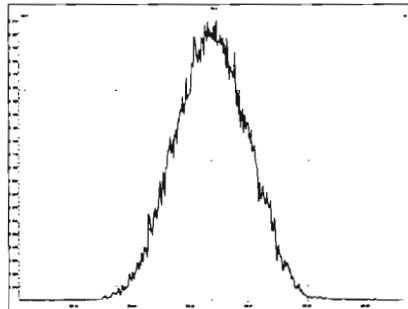
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Friday, March 06, 2020 13:06:28 Pacific Standard Time

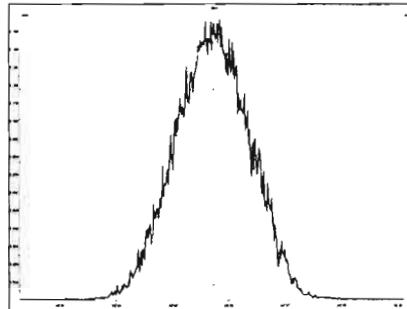
M 318.9792 R 11796



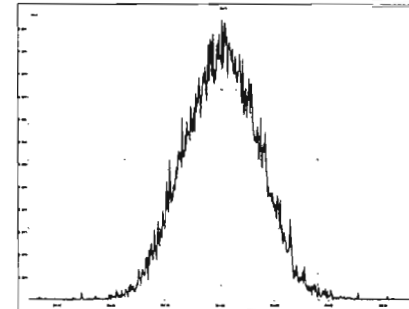
M 330.9792 R 11522



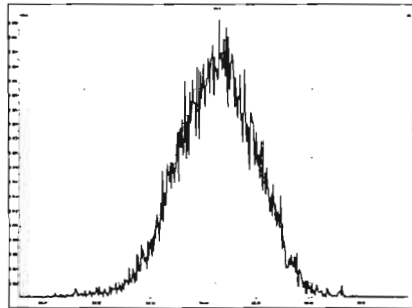
M 342.9792 R 11363



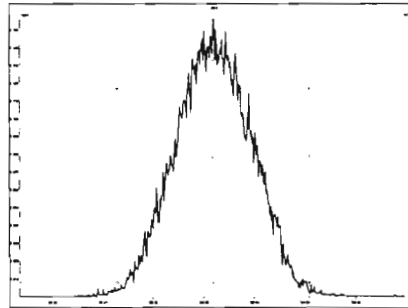
M 354.9792 R 11413



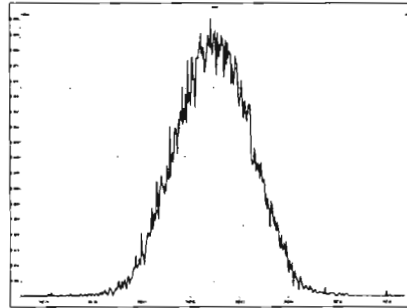
M 366.9792 R 10730



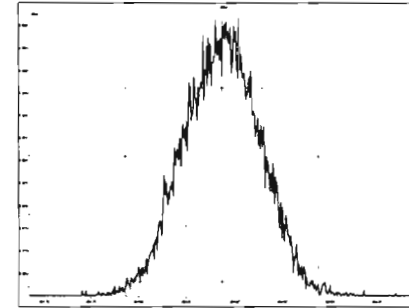
M 380.9760 R 11159



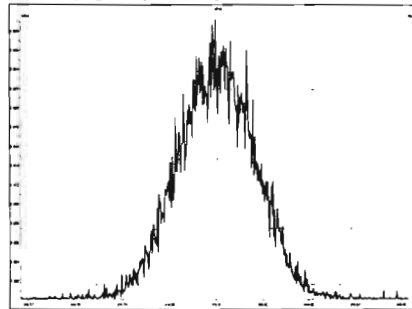
M 392.9760 R 11575



M 404.9760 R 11061



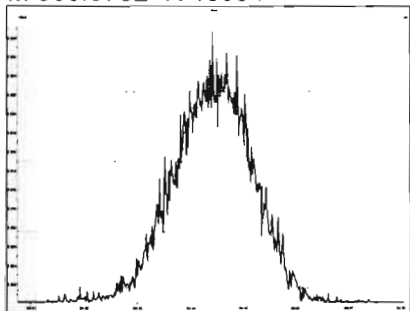
M 416.9760 R 10728



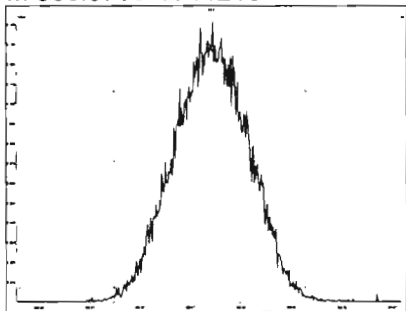
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Printed: Friday, March 06, 2020 13:07:06 Pacific Standard Time

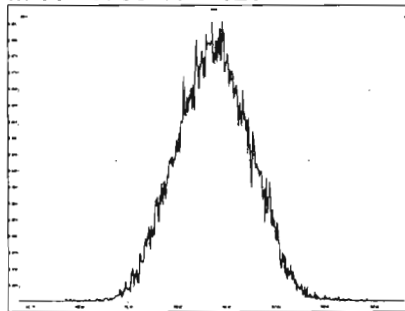
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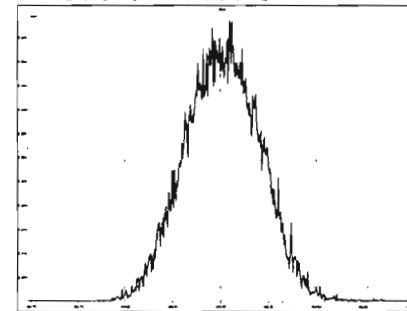
M 380.9760 R 11210



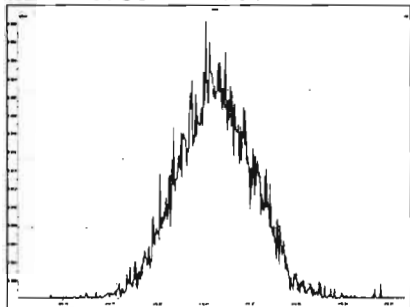
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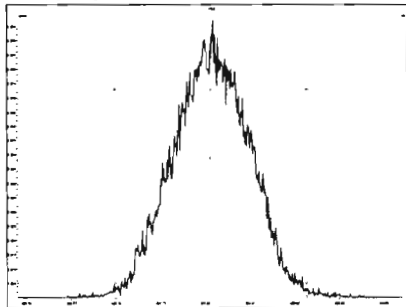
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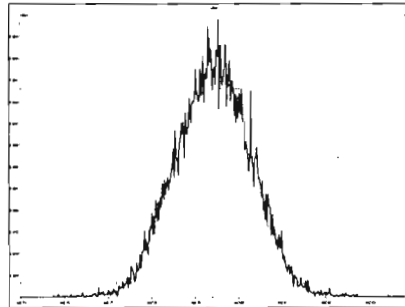
M 416.9760 R 11795



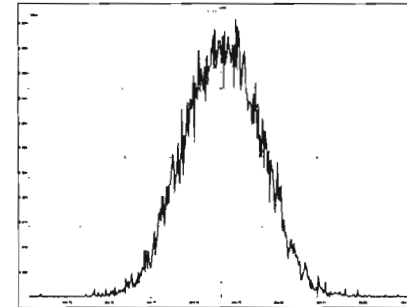
M 430.9728 R 11108



M 442.9728 R 11415



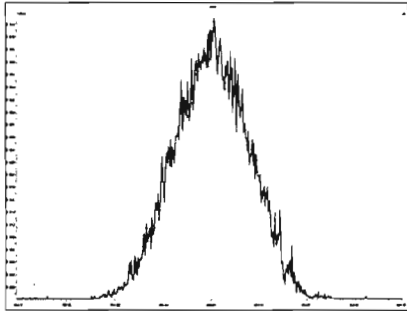
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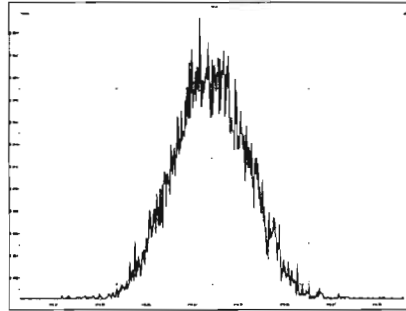
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Printed: Friday, March 06, 2020 13:07:43 Pacific Standard Time

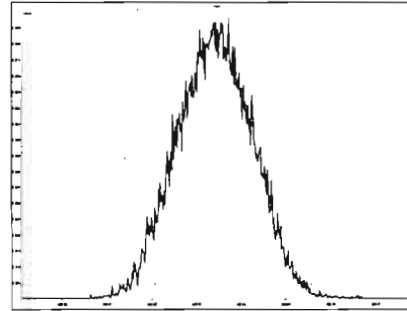
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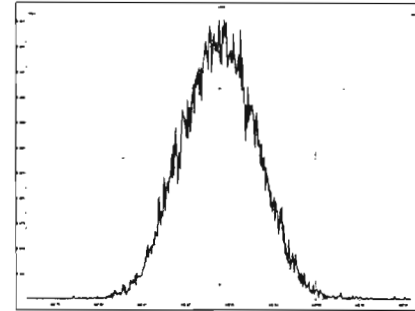
M 416.9760 R 10964



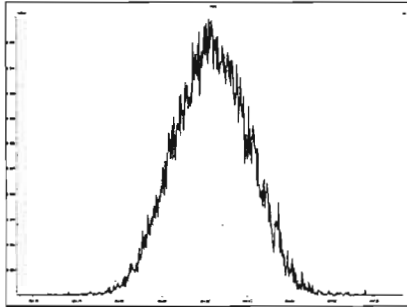
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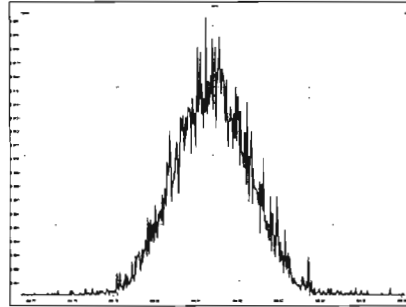
M 442.9728 R 11211



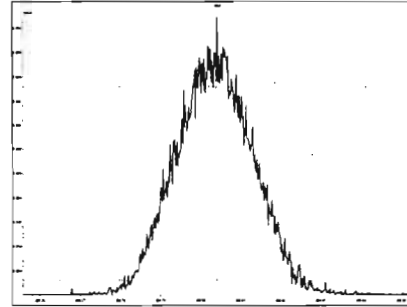
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M 466.9728 R 11313



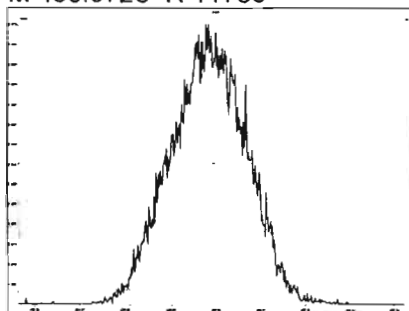
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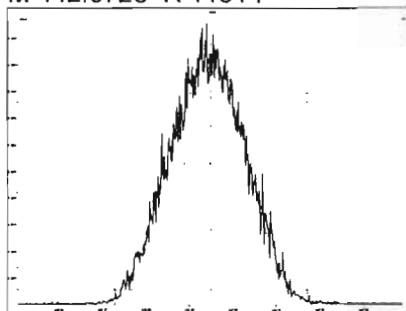
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Printed: Friday, March 06, 2020 13:08:16 Pacific Standard Time

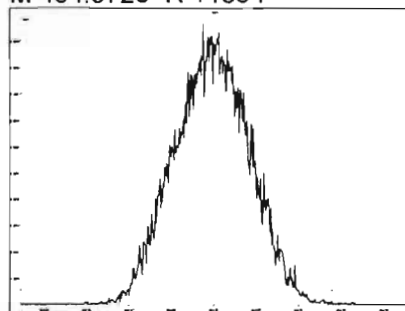
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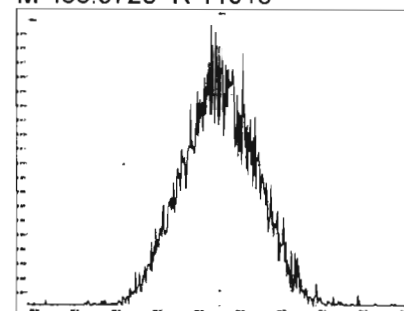
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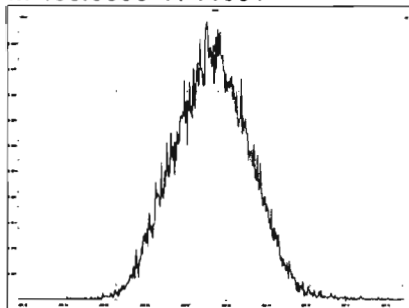
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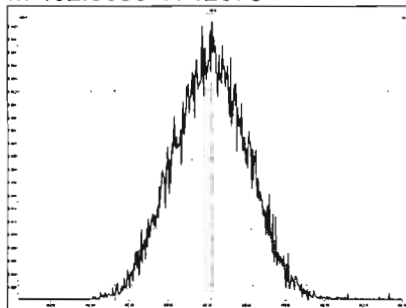
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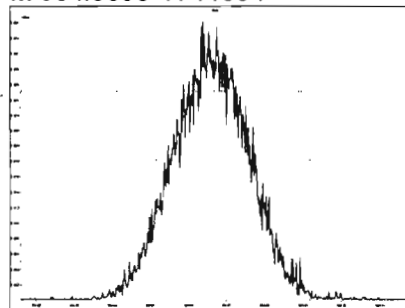
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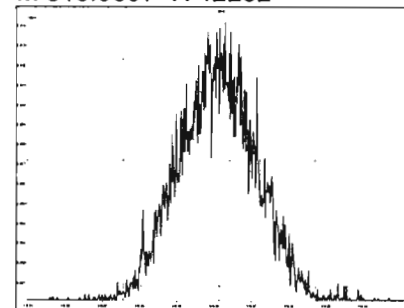
M 492.9696 R 12376



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

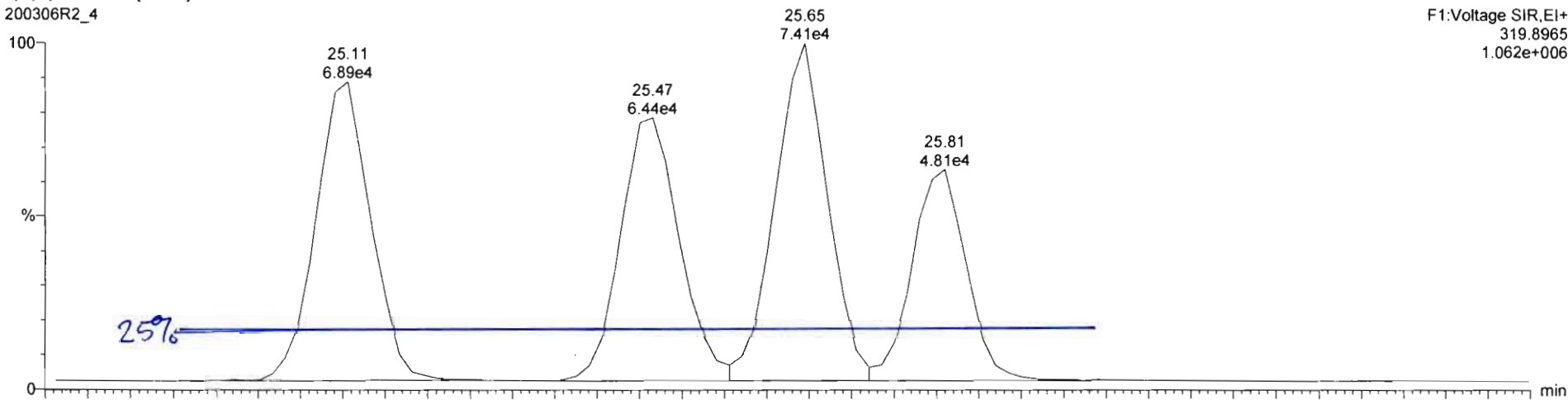
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

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)

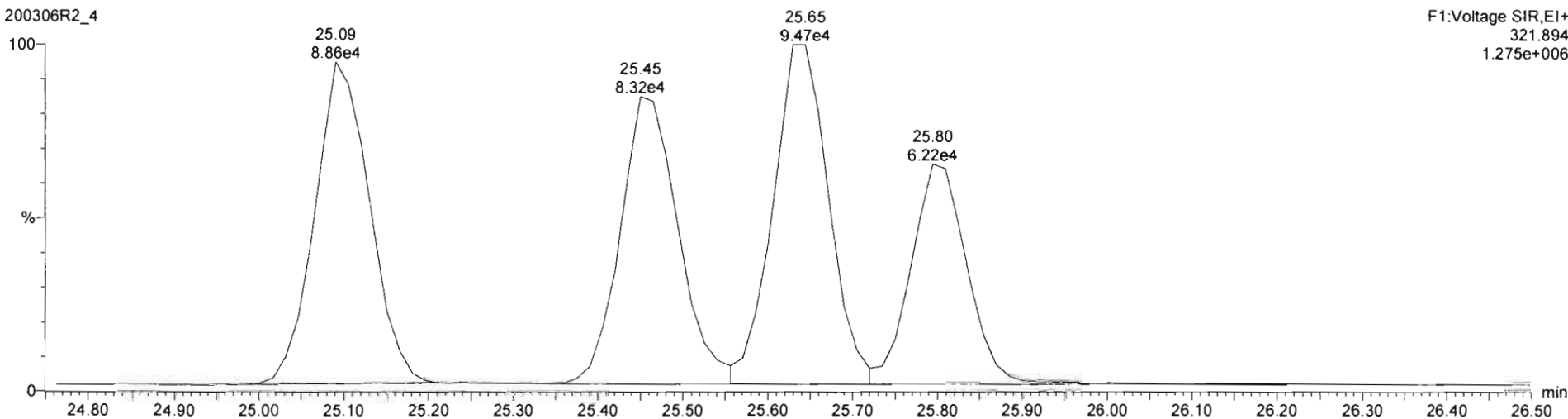
200306R2_4

F1:Voltage SIR,EI+
319.8965
1.062e+006



200306R2_4

F1:Voltage SIR,EI+
321.894
1.275e+006



Dataset: Untitled

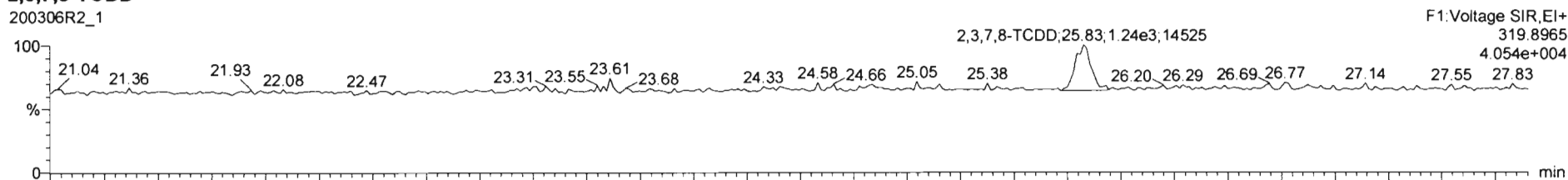
Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

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

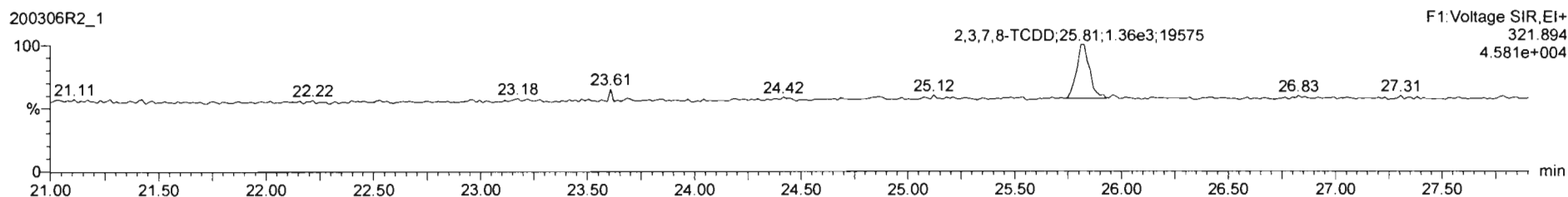
Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

2,3,7,8-TCDD

200306R2_1

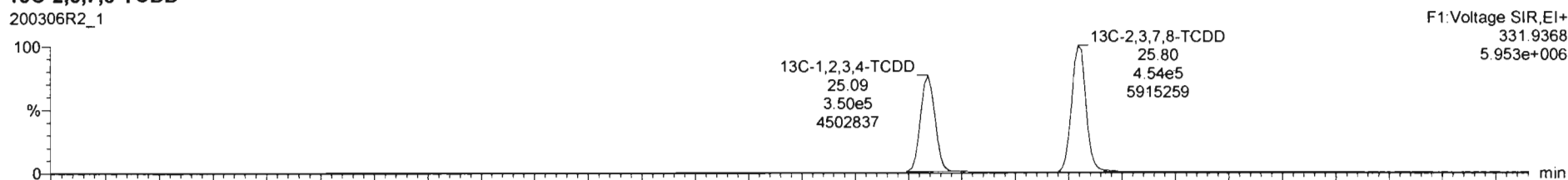


200306R2_1

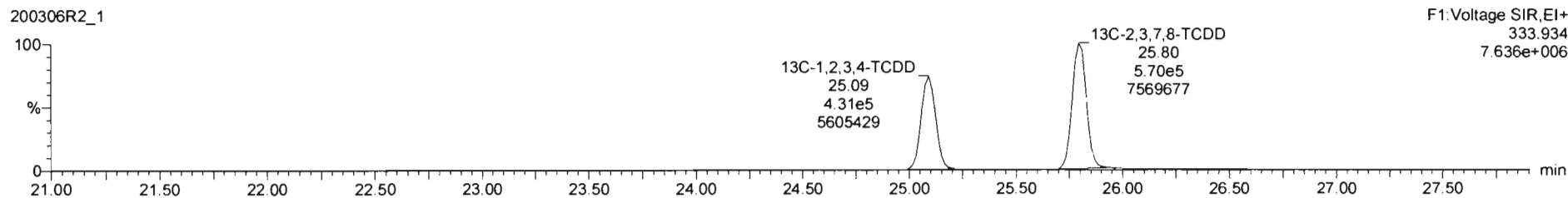


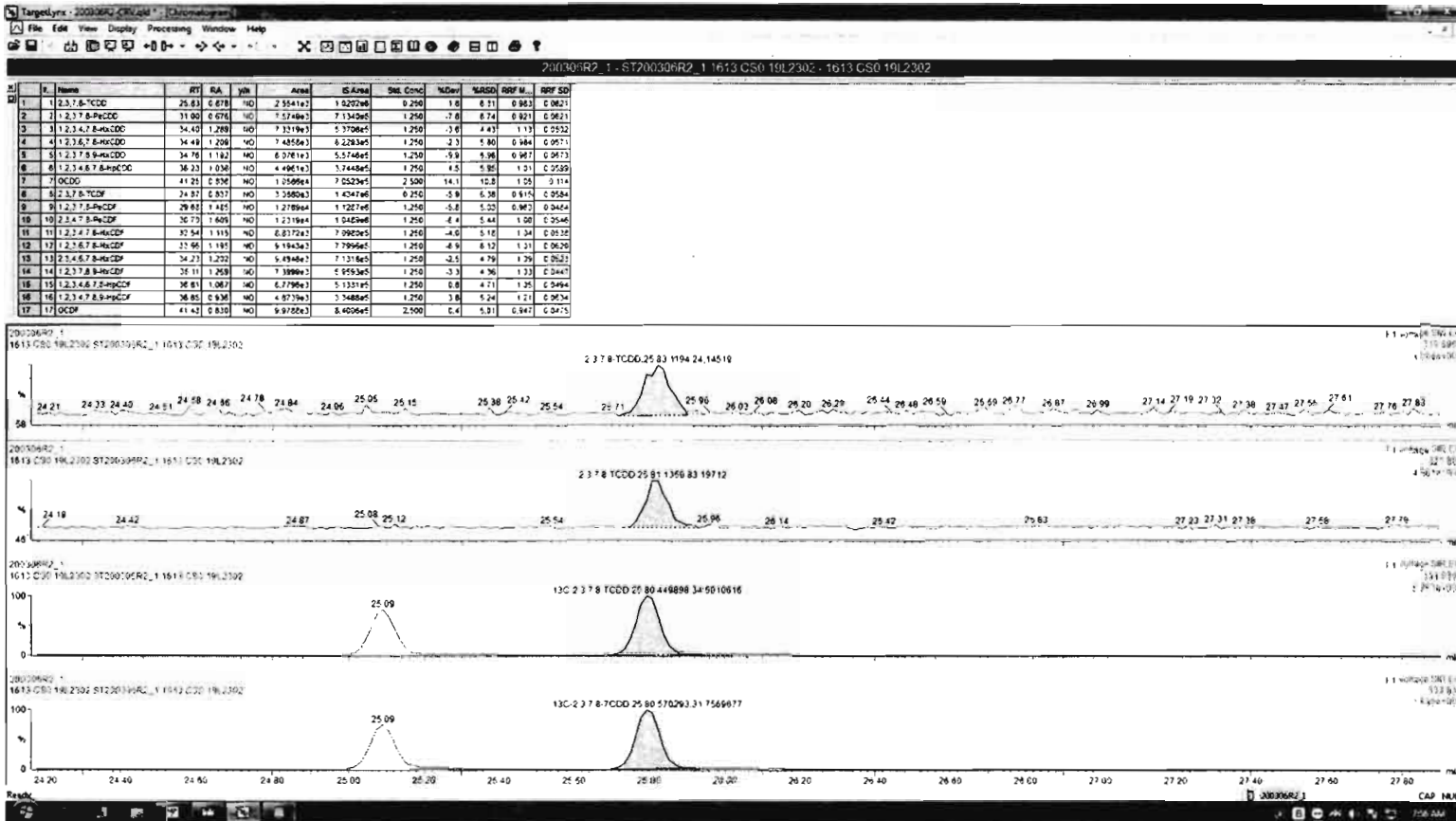
13C-2,3,7,8-TCDD

200306R2_1



200306R2_1





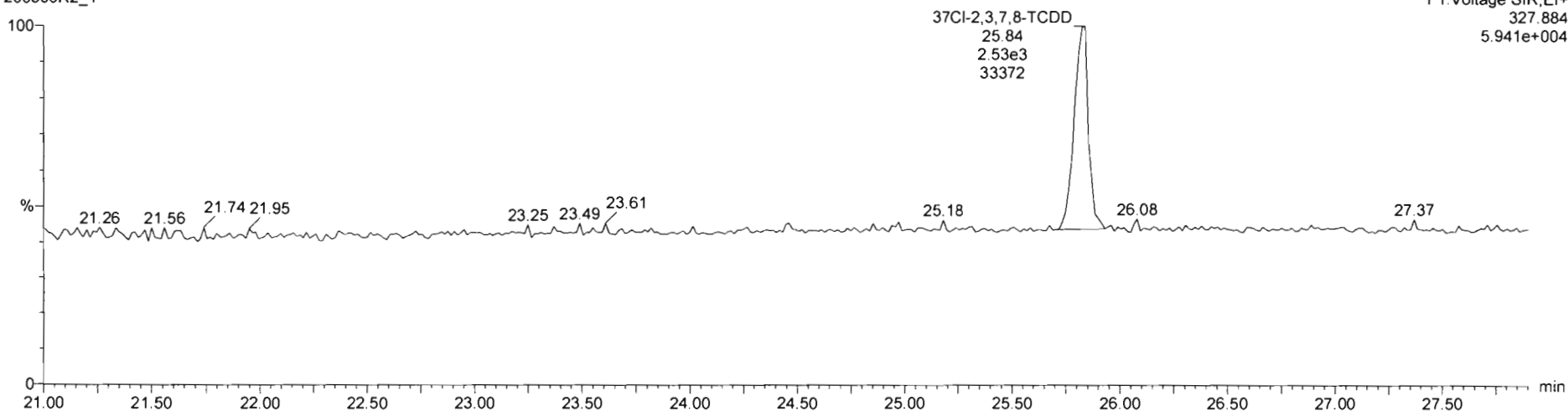
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Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

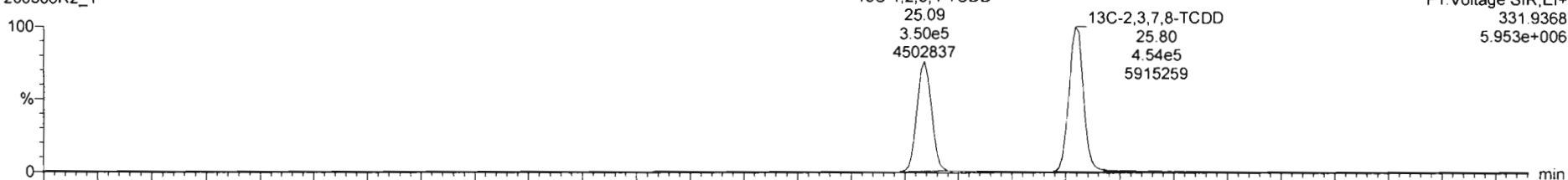
37Cl-2,3,7,8-TCDD

200306R2_1

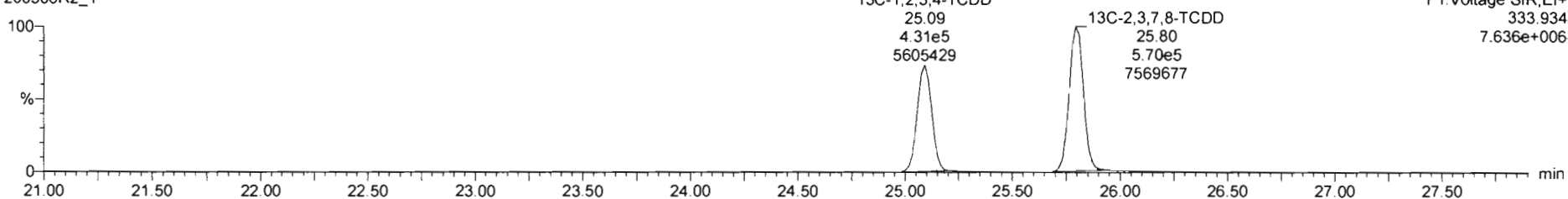


13C-1,2,3,4-TCDD

200306R2_1



200306R2_1



Dataset: Untitled

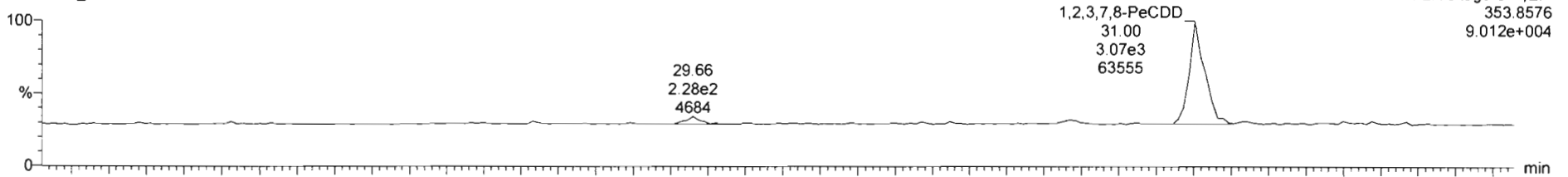
Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

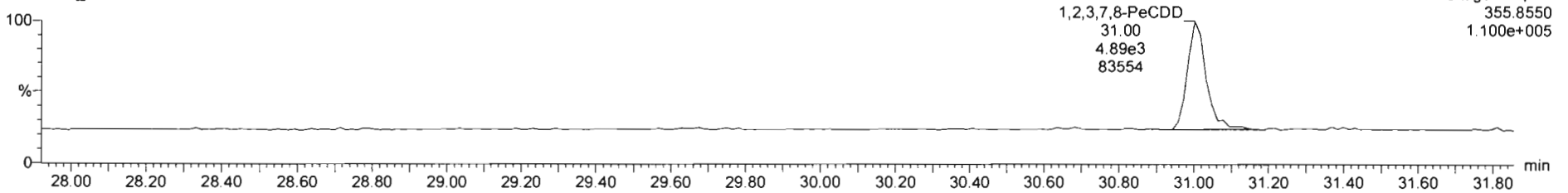
Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

1,2,3,7,8-PeCDD

200306R2_1

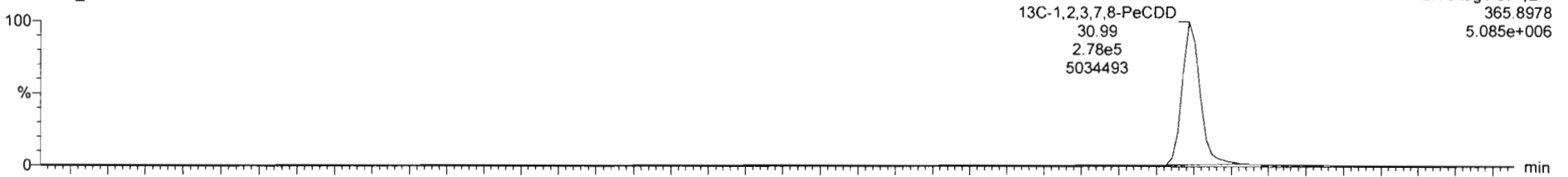


200306R2_1

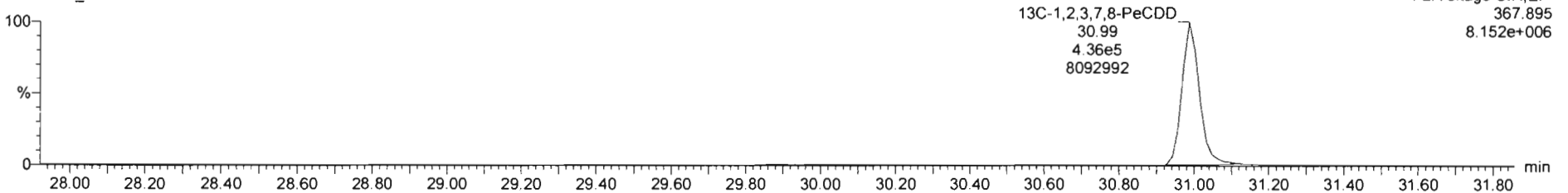


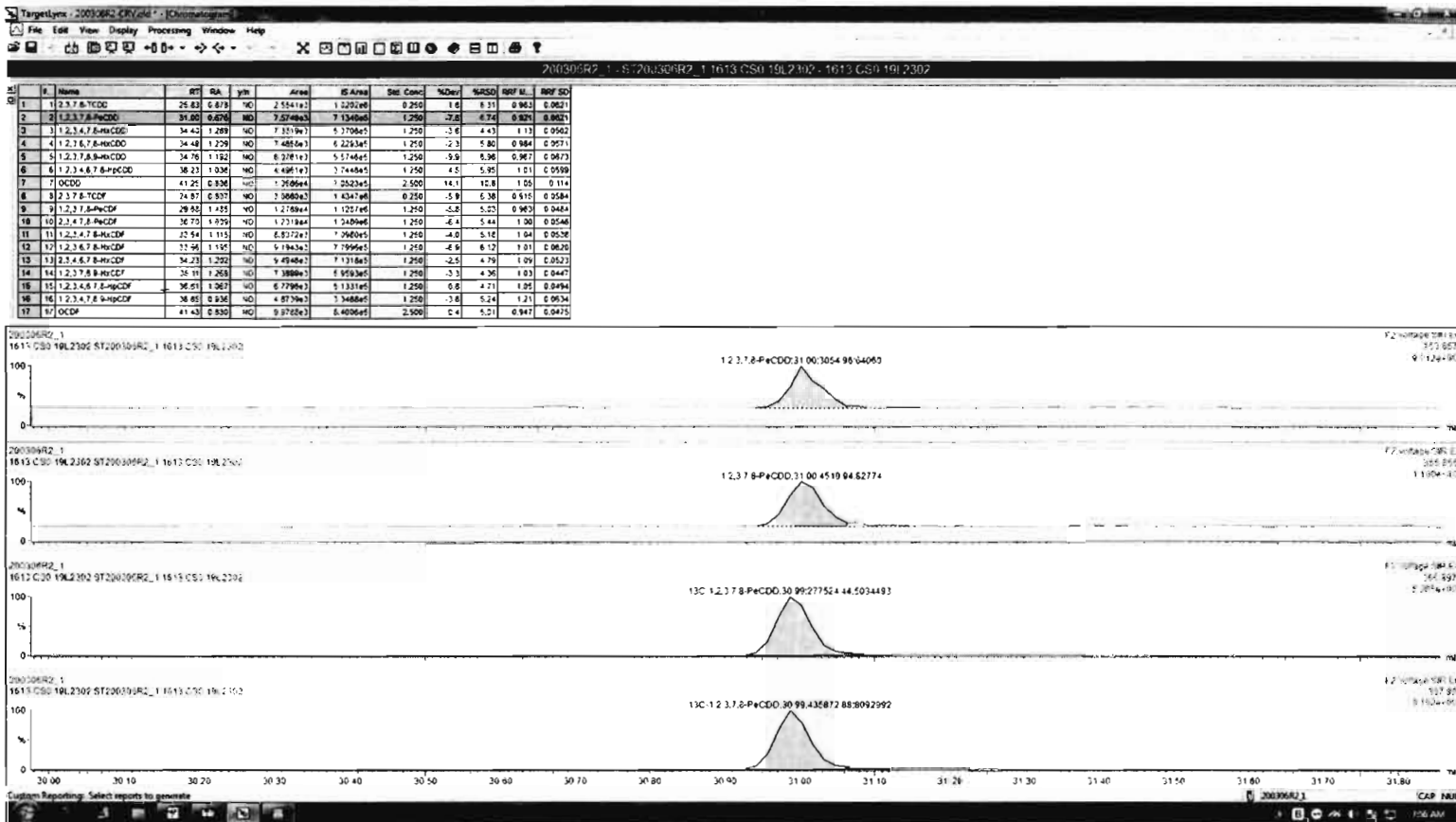
13C-1,2,3,7,8-PeCDD

200306R2_1



200306R2_1





Dataset: Untitled

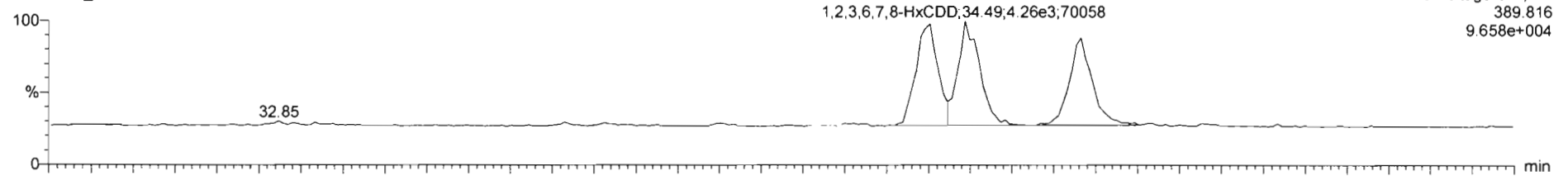
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

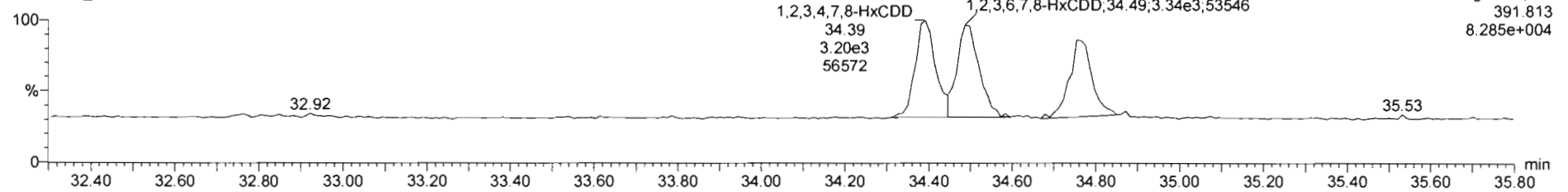
Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

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

200306R2_1

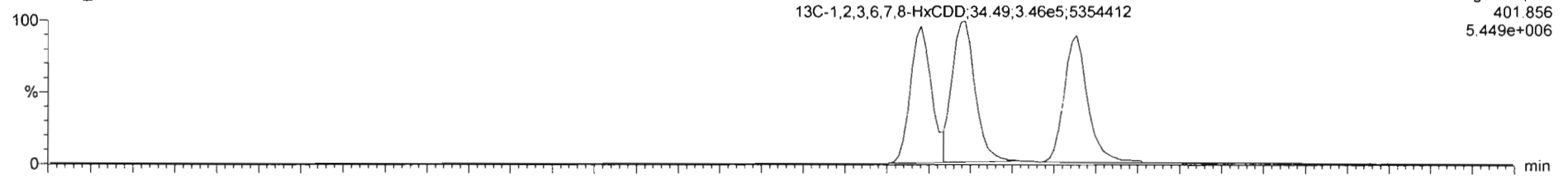


200306R2_1

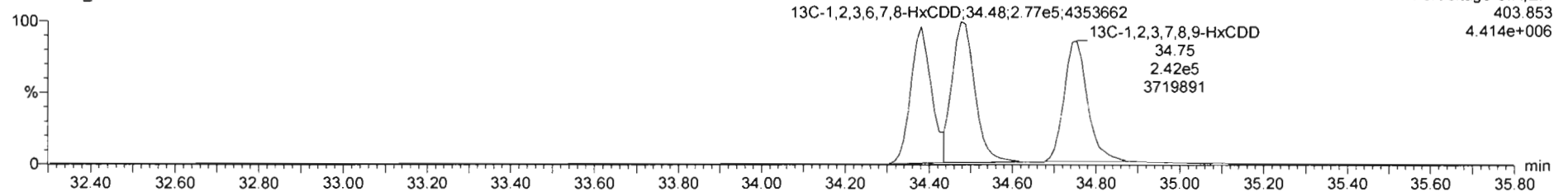


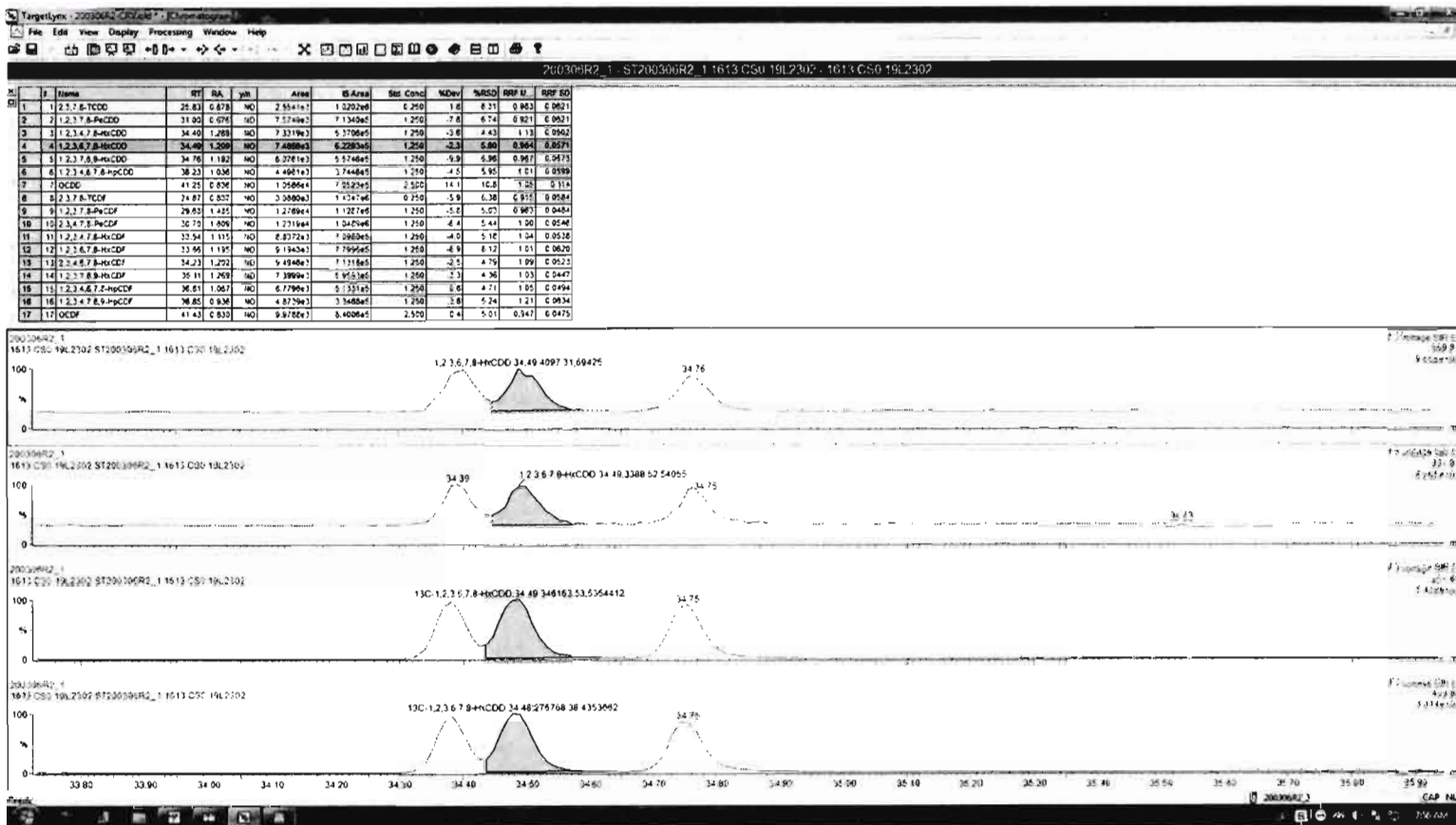
13C-1,2,3,4,7,8-HxCDD

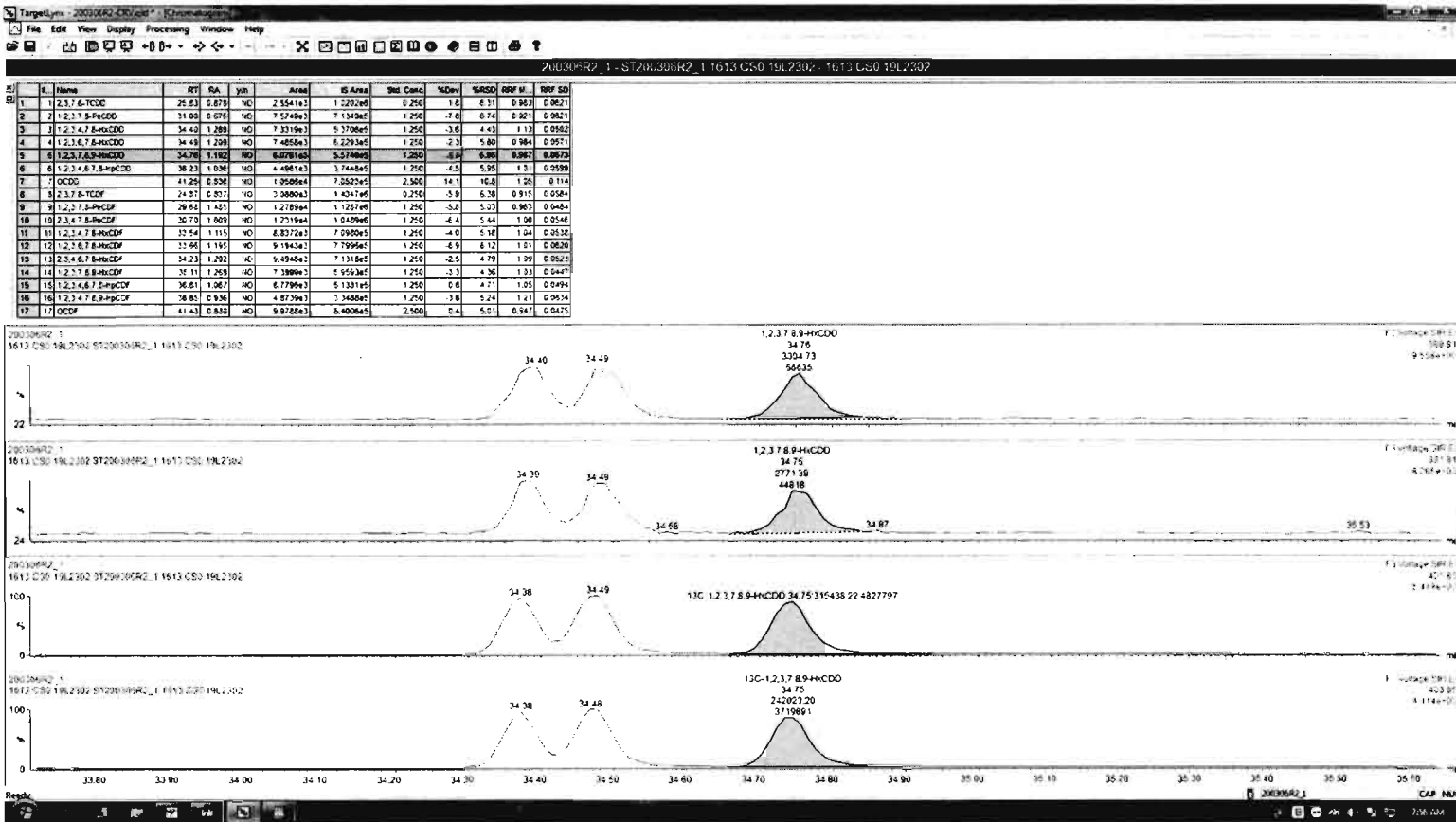
200306R2_1



200306R2_1







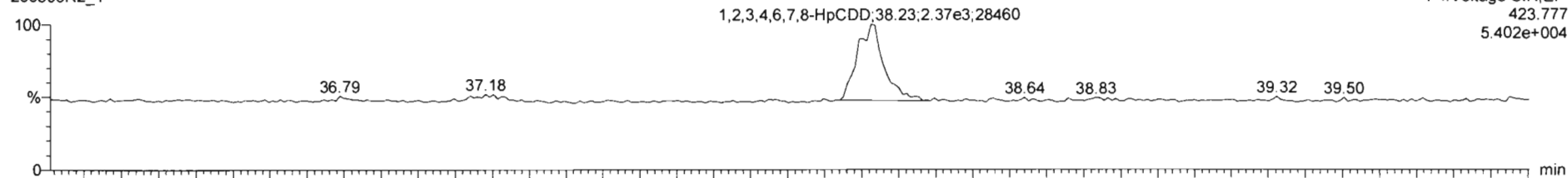
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Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

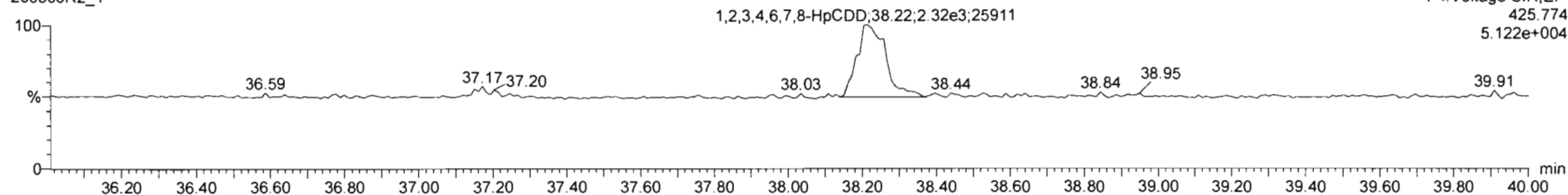
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1,2,3,4,6,7,8-HpCDD

200306R2_1

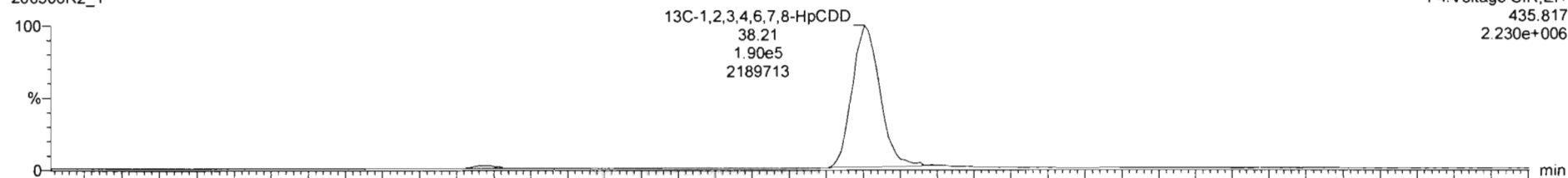


200306R2_1

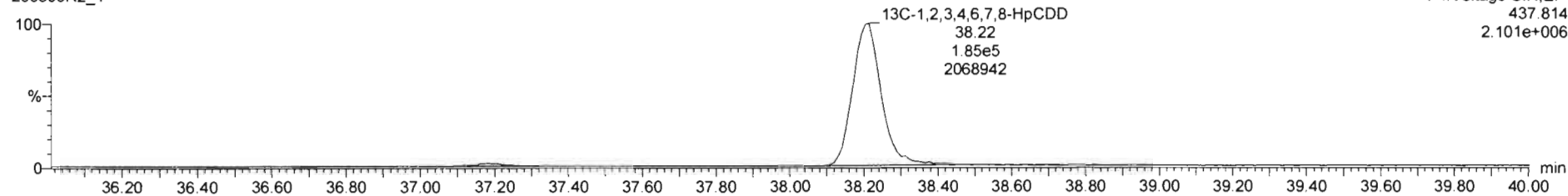


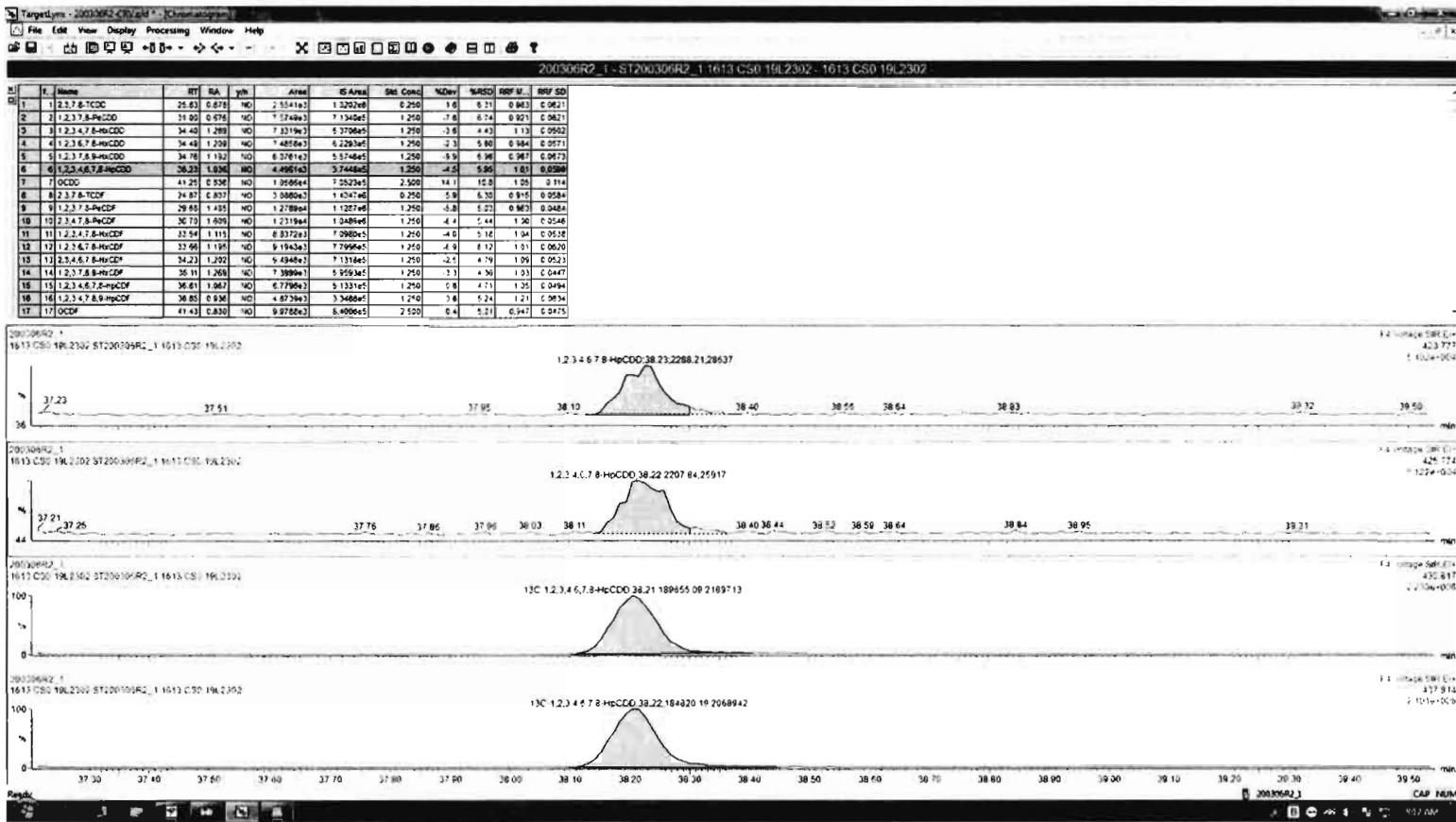
13C-1,2,3,4,6,7,8-HpCDD

200306R2_1



200306R2_1





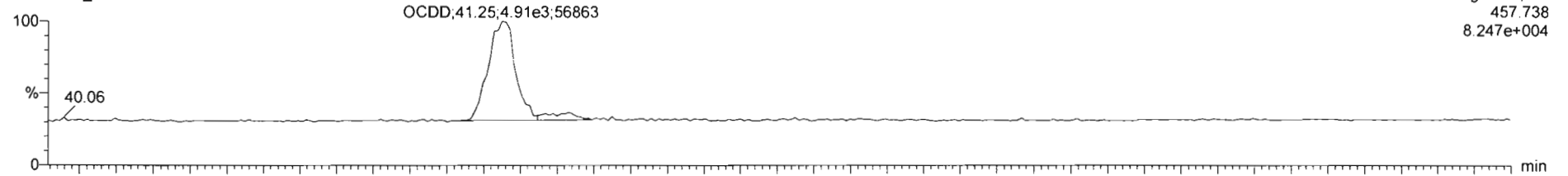
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

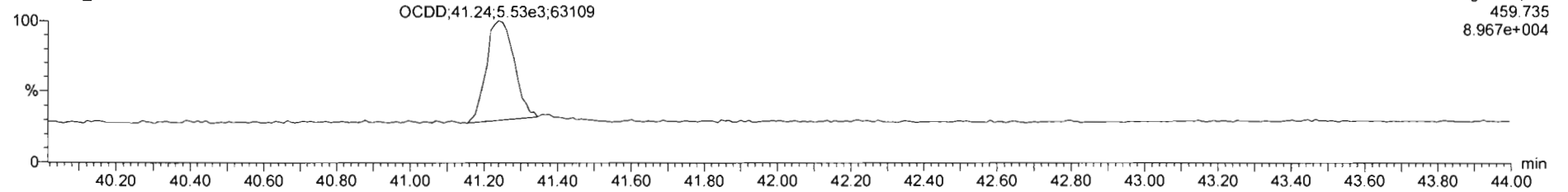
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OCDD

200306R2_1



200306R2_1

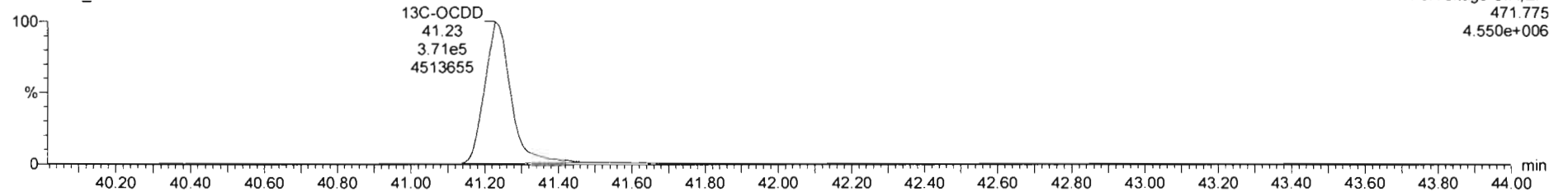


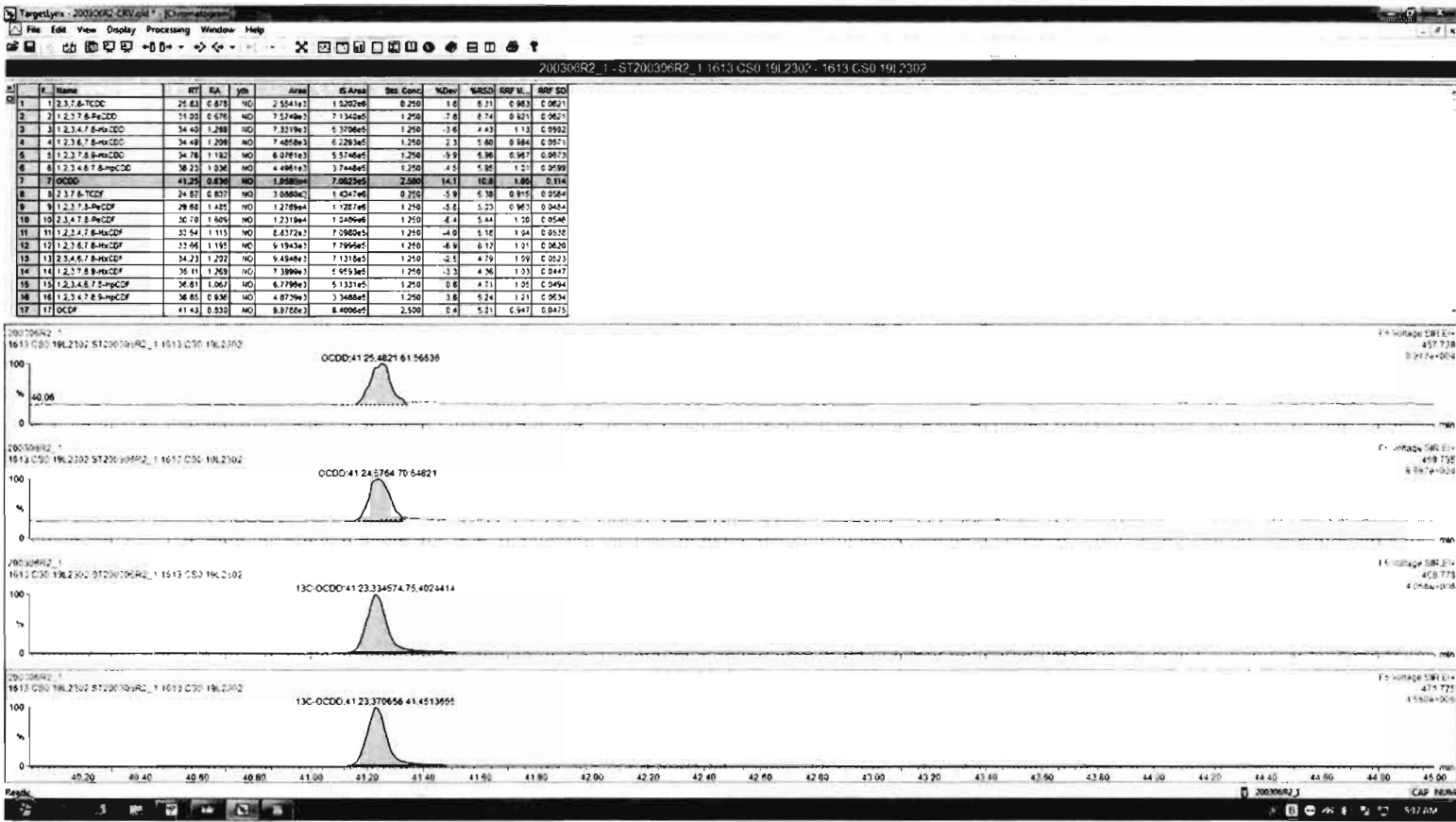
13C-OCDD

200306R2_1



200306R2_1





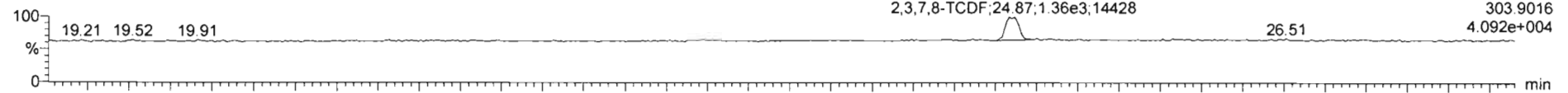
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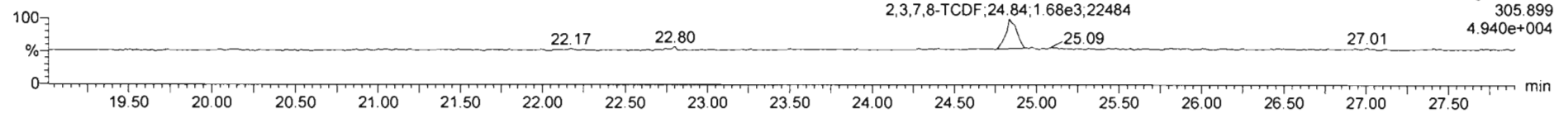
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2,3,7,8-TCDF

200306R2_1

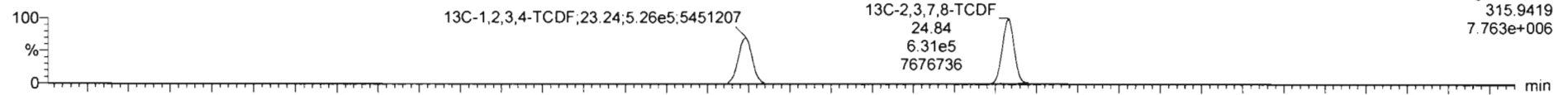


200306R2_1

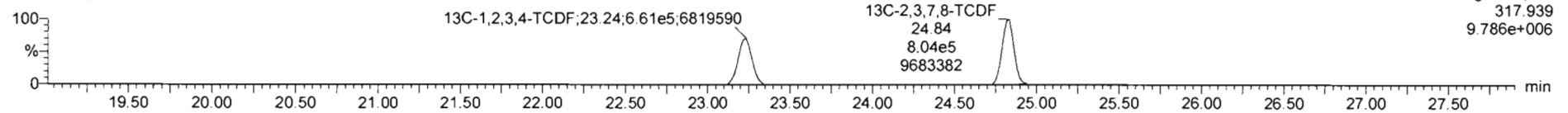


13C-2,3,7,8-TCDF

200306R2_1

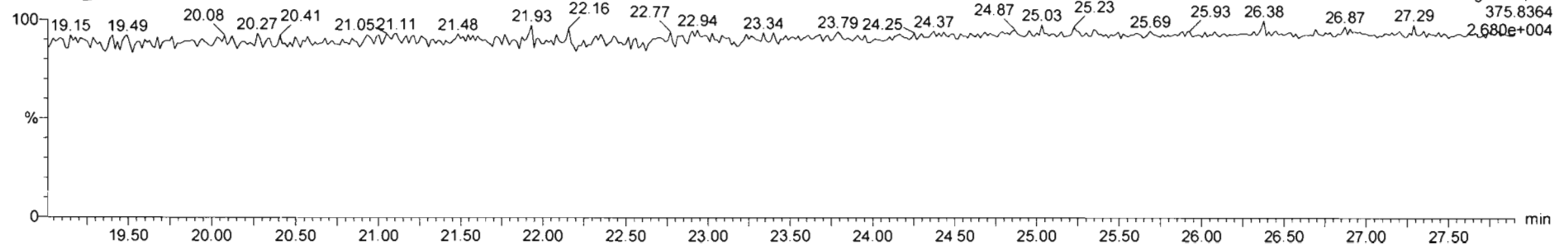


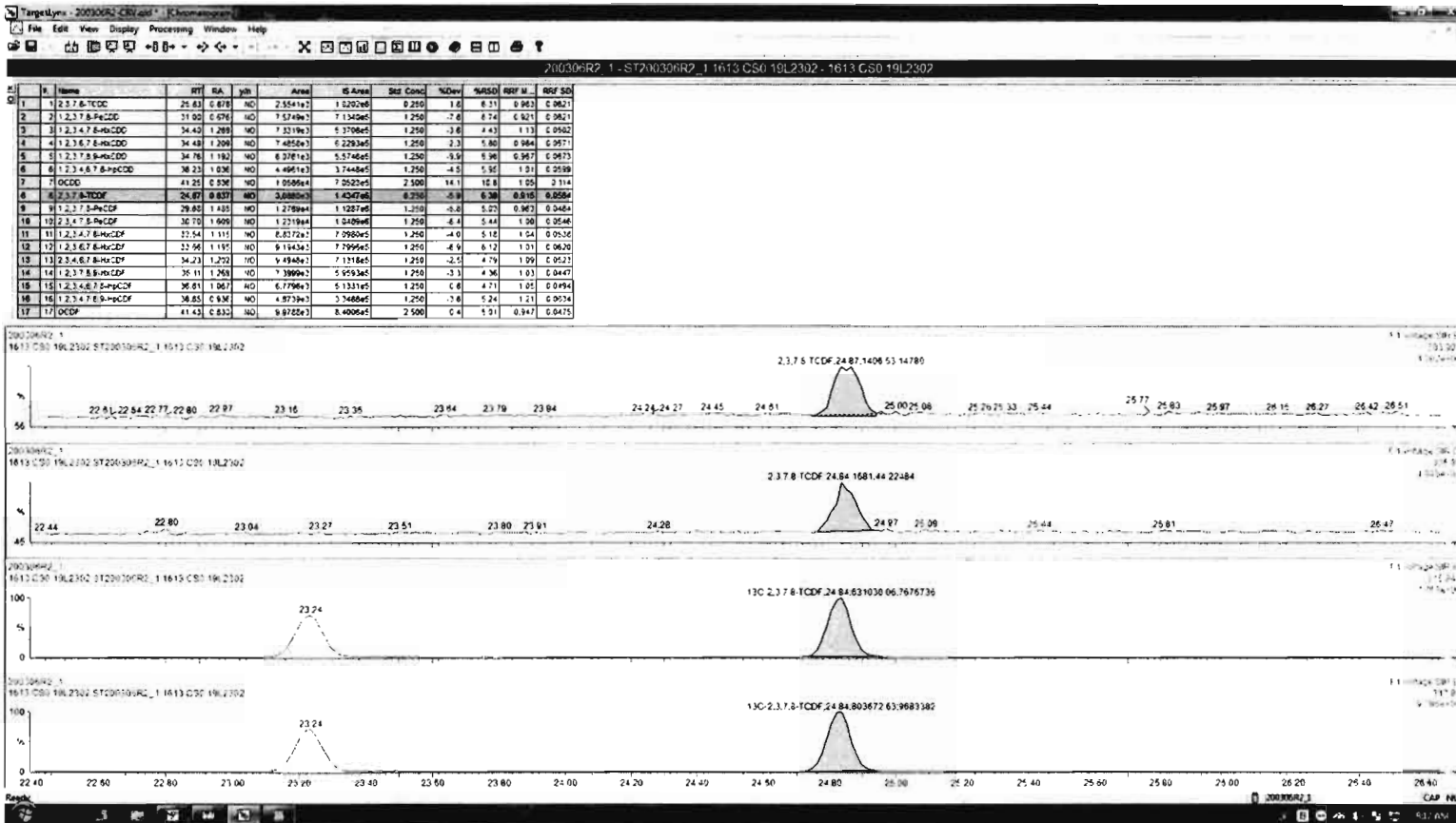
200306R2_1



DPE1

200306R2_1





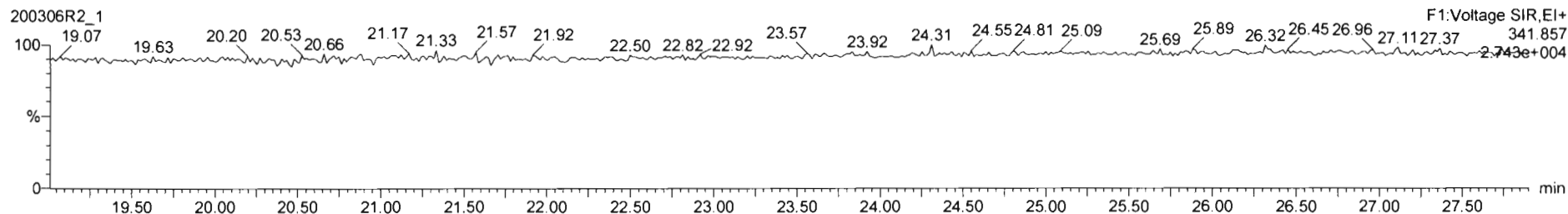
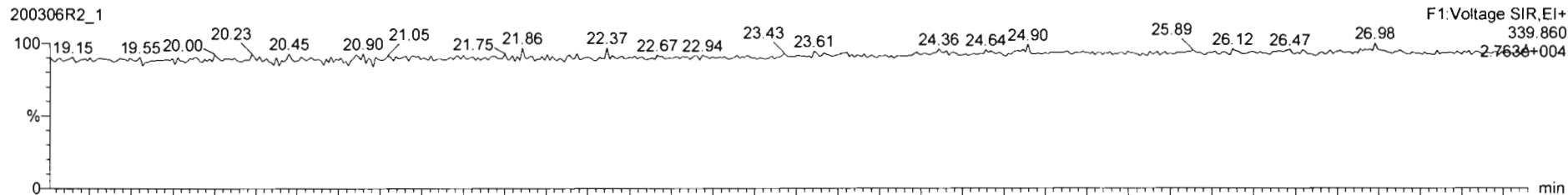
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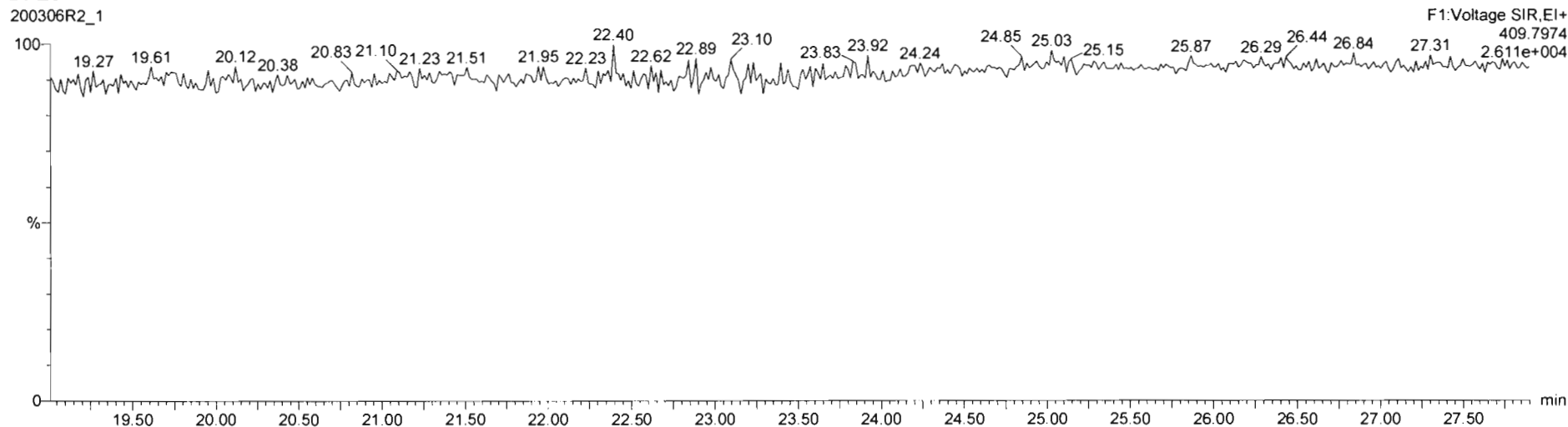
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

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



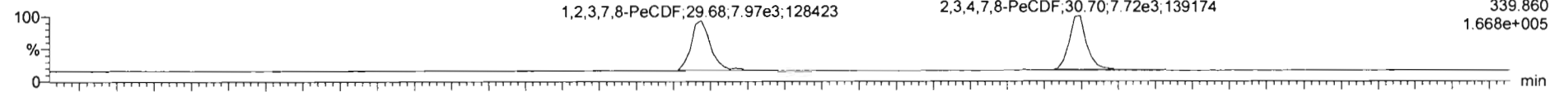
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Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

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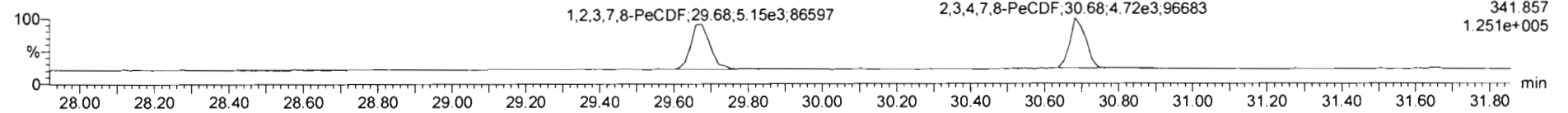
1,2,3,7,8-PeCDF

200306R2_1



F2: Voltage SIR, EI+
339.860
1.668e+005

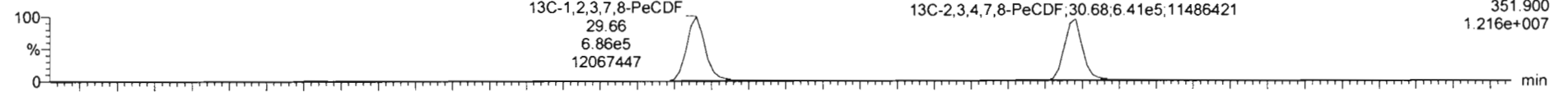
200306R2_1



F2: Voltage SIR, EI+
341.857
1.251e+005

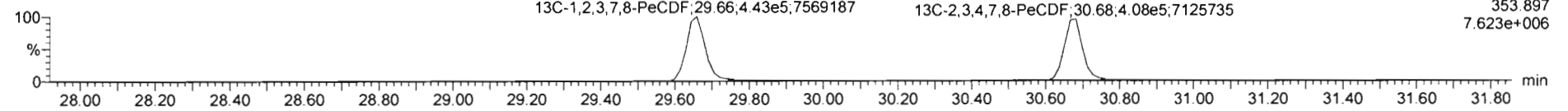
13C-1,2,3,7,8-PeCDF

200306R2_1



F2: Voltage SIR, EI+
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1.216e+007

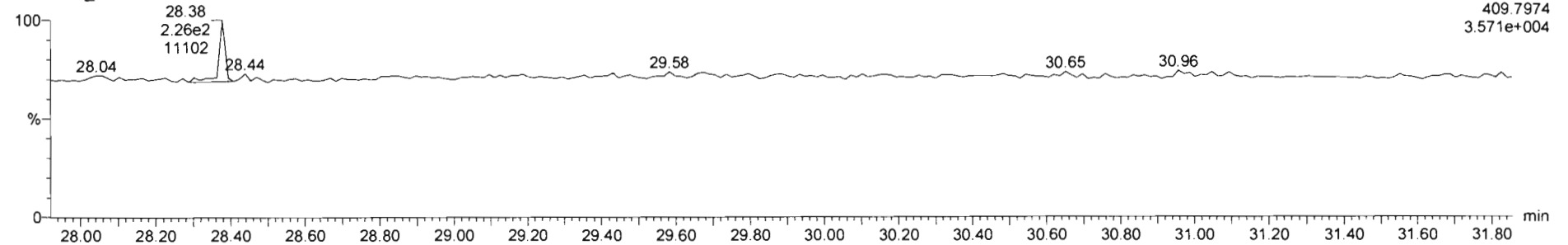
200306R2_1



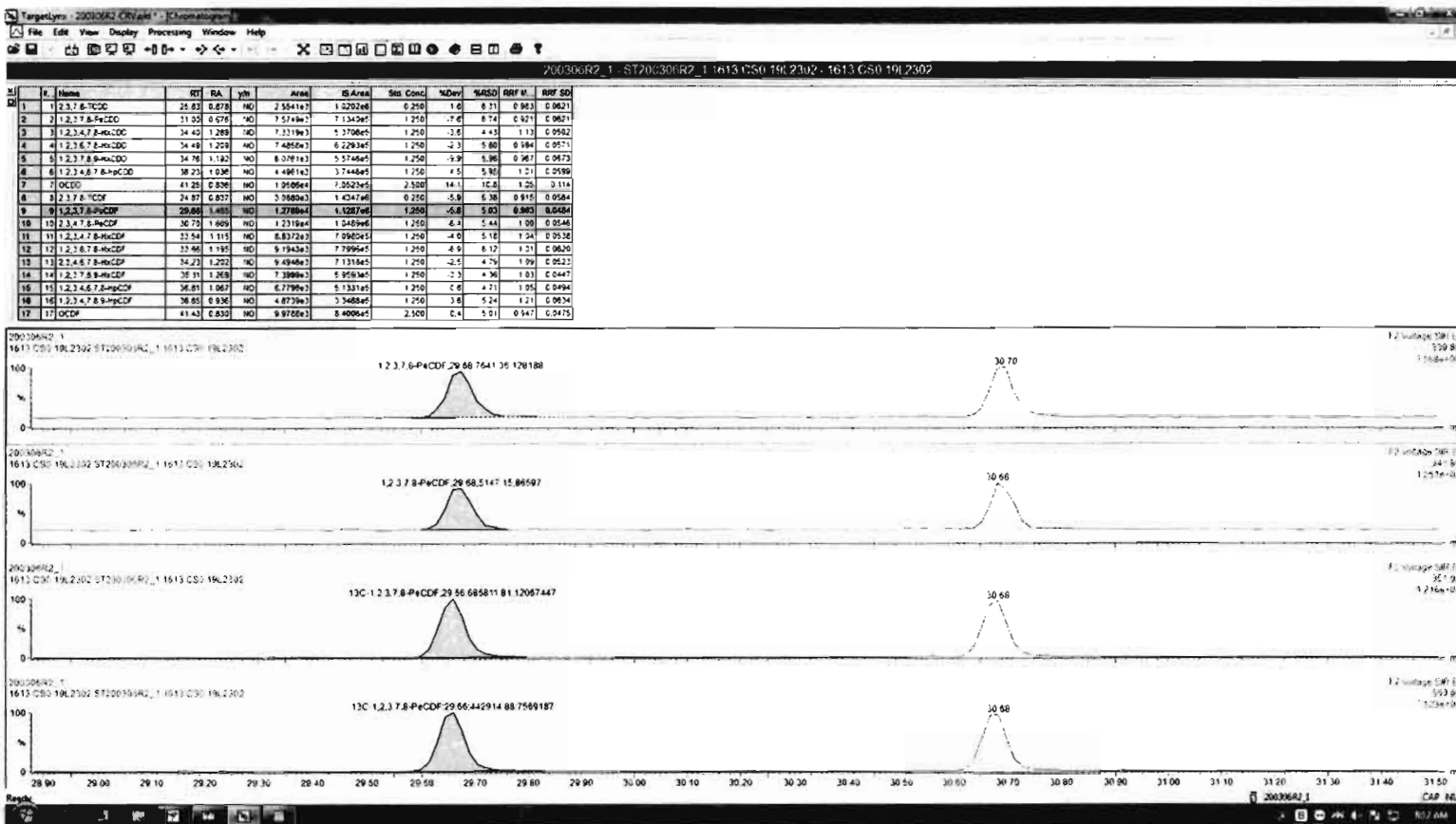
F2: Voltage SIR, EI+
353.897
7.623e+006

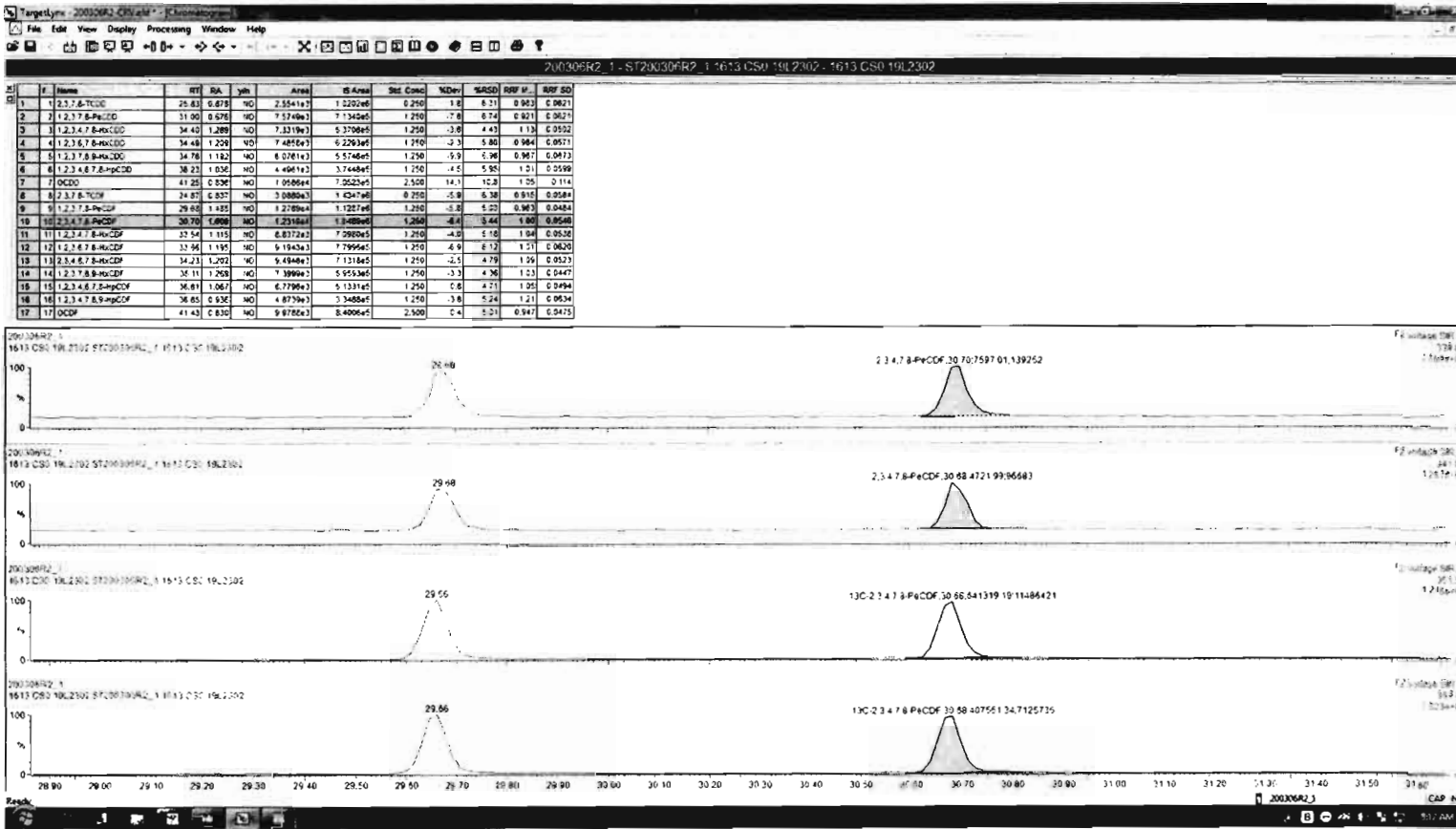
DPE2

200306R2_1



F2: Voltage SIR, EI+
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3.571e+004





Dataset: Untitled

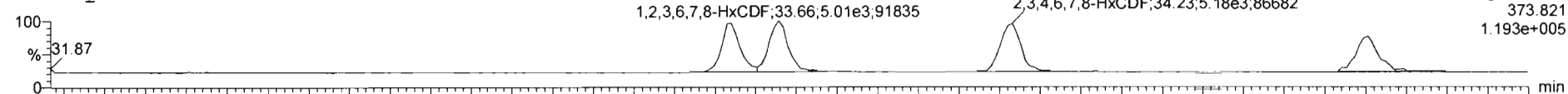
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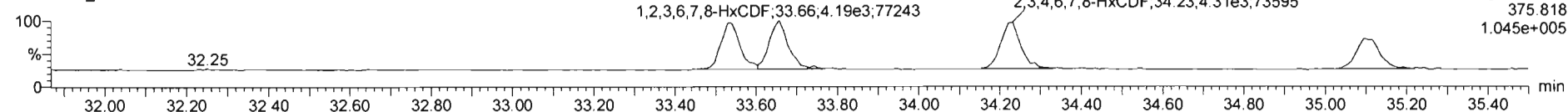
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1,2,3,4,7,8-HxCDF

200306R2_1

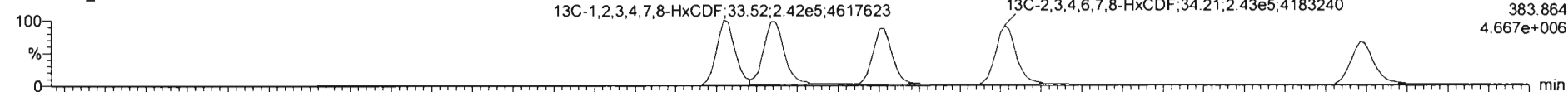


200306R2_1

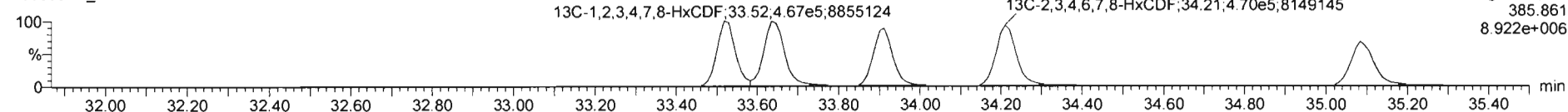


13C-1,2,3,4,7,8-HxCDF

200306R2_1

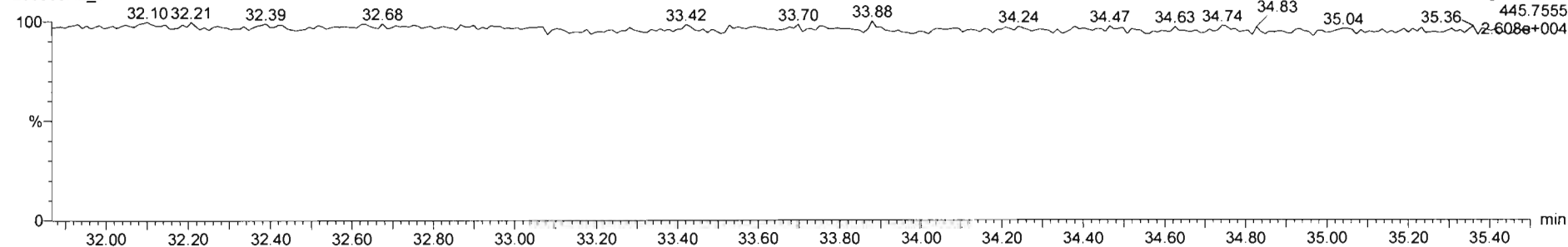


200306R2_1



DPE3

200306R2_1

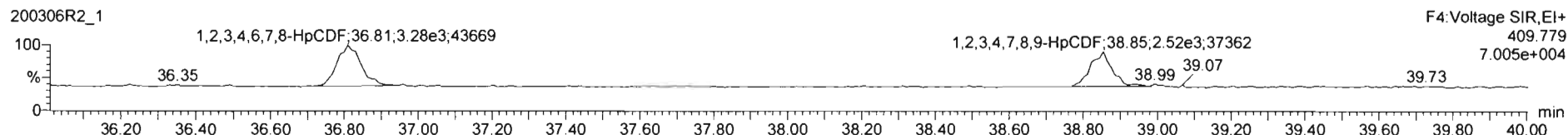
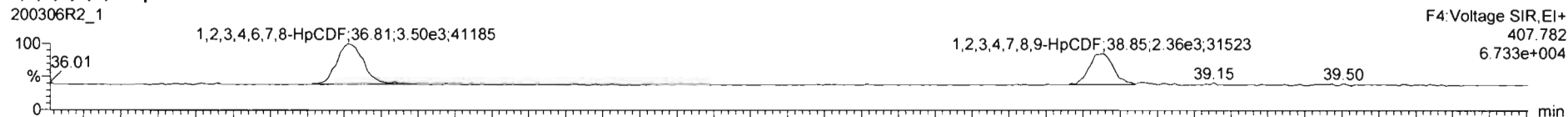


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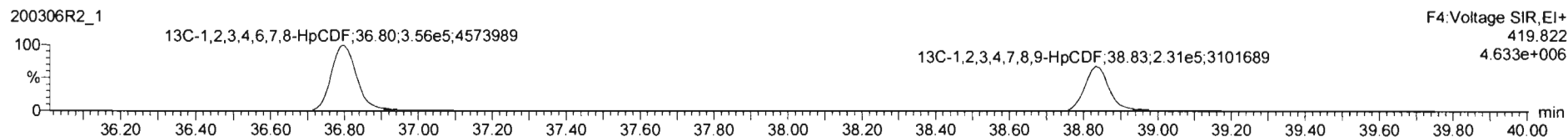
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

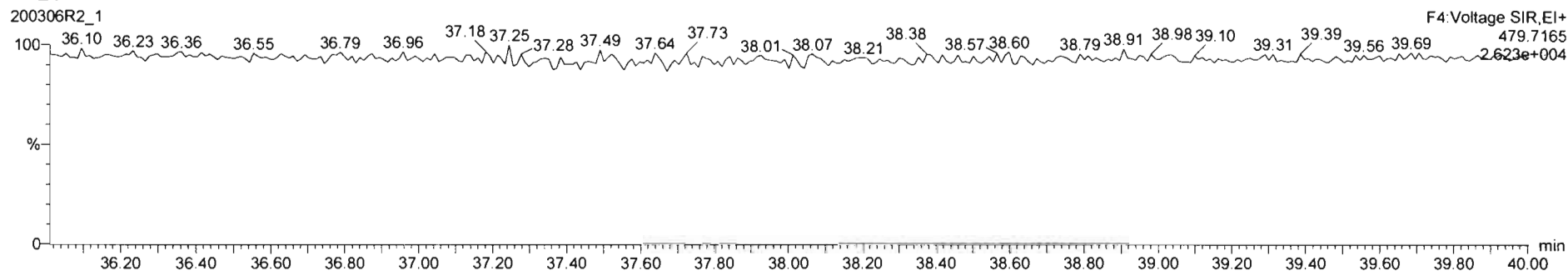
1,2,3,4,6,7,8-HpCDF



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



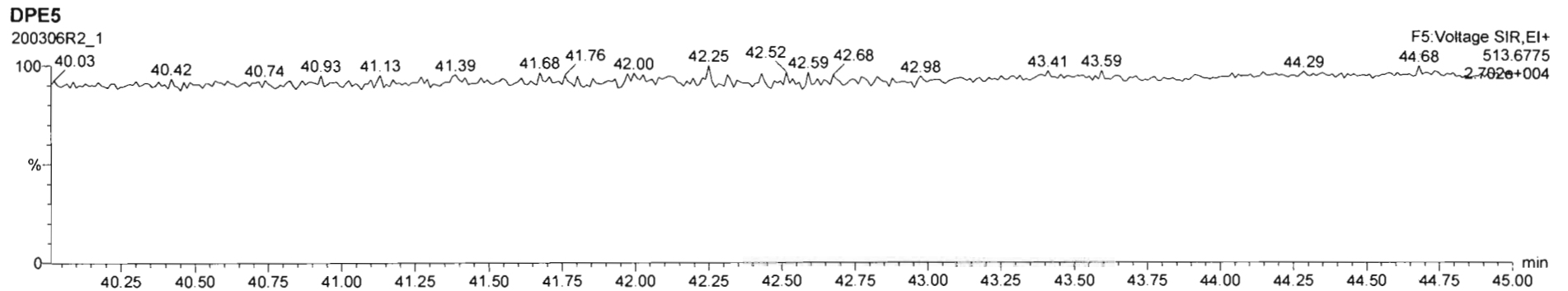
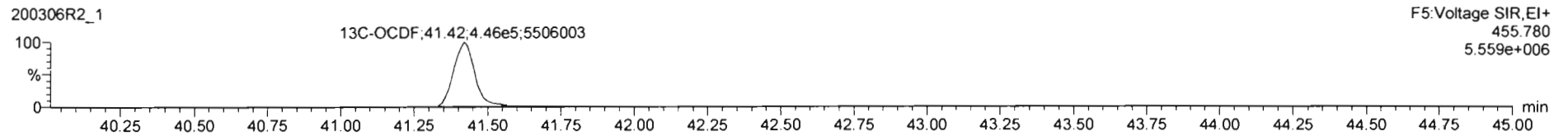
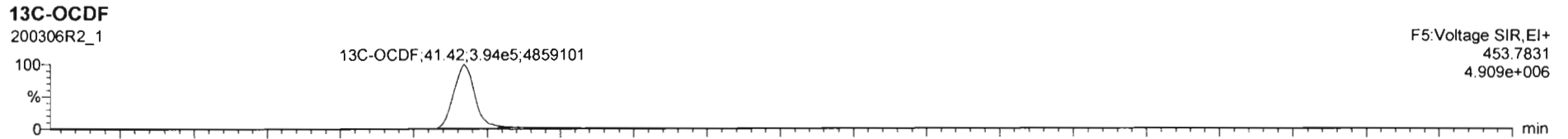
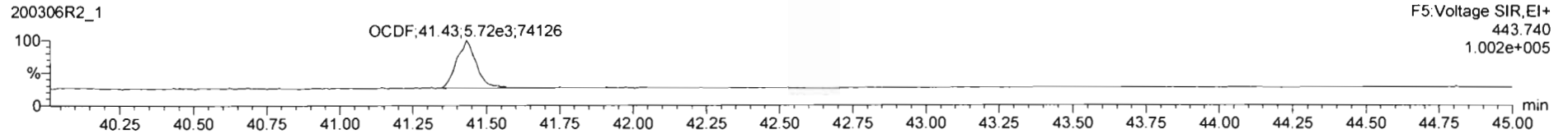
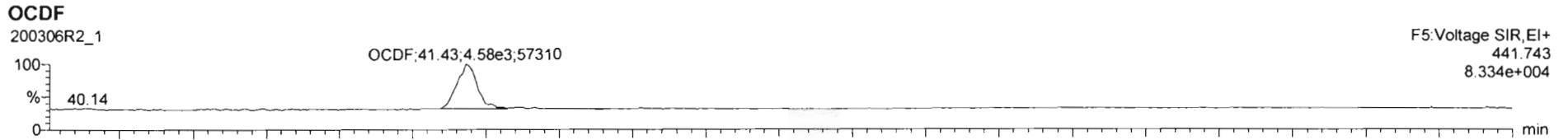
DPE4

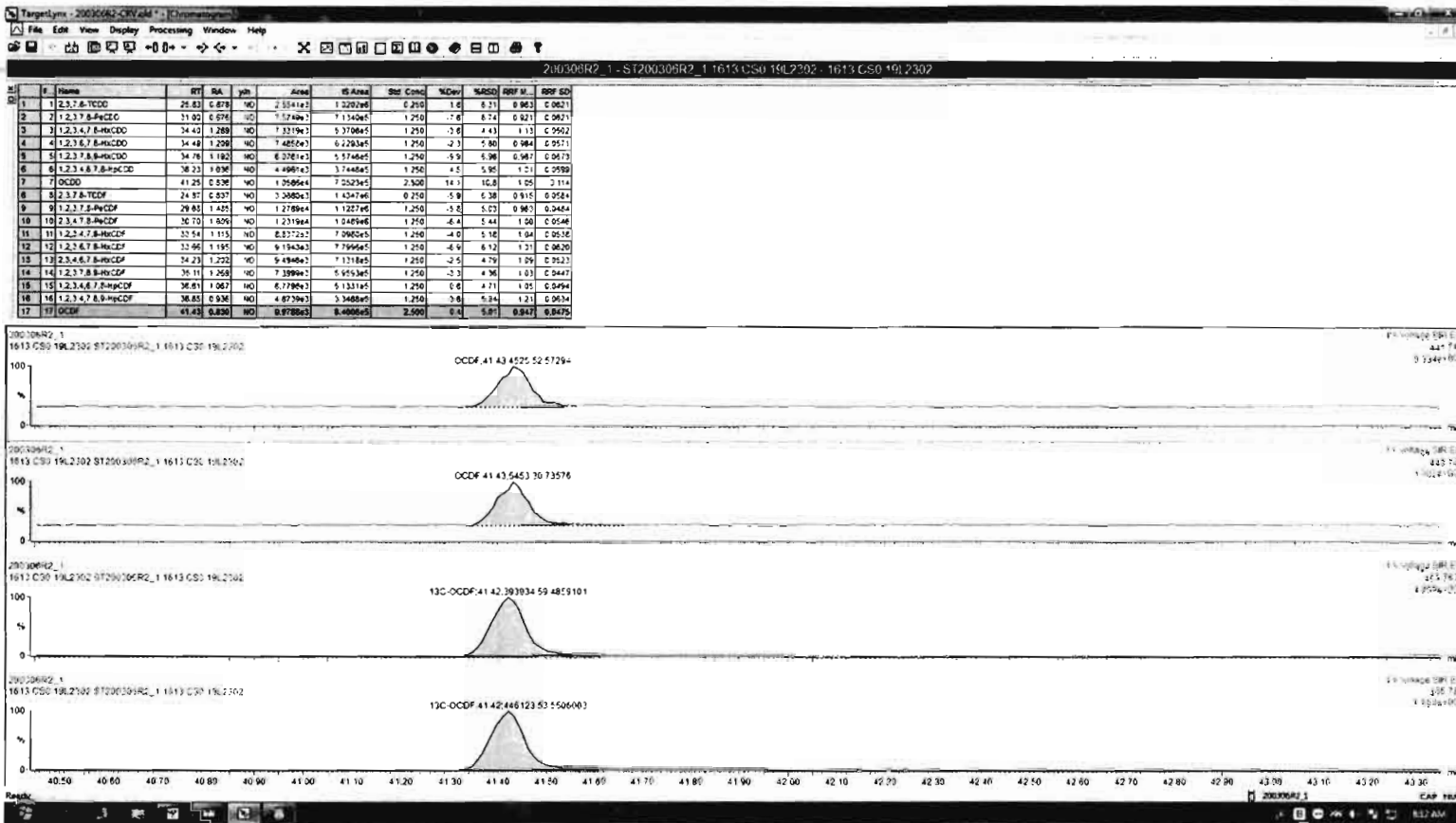


Dataset: Untitled

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

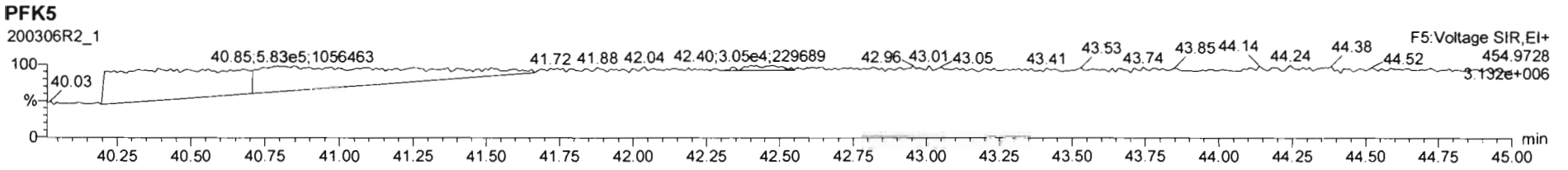
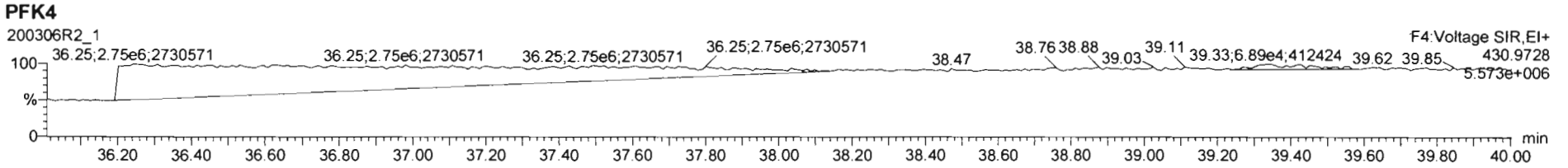
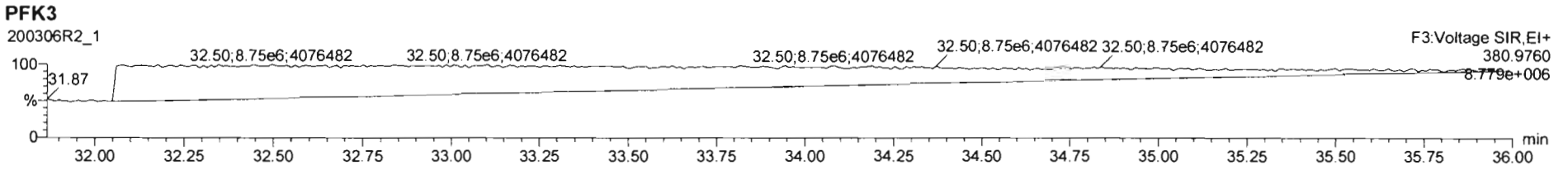
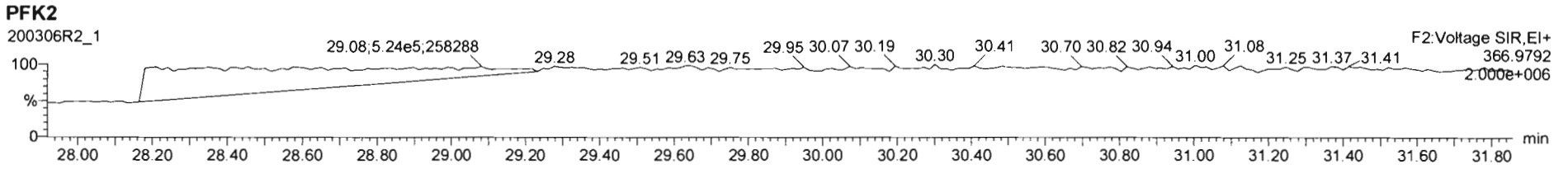
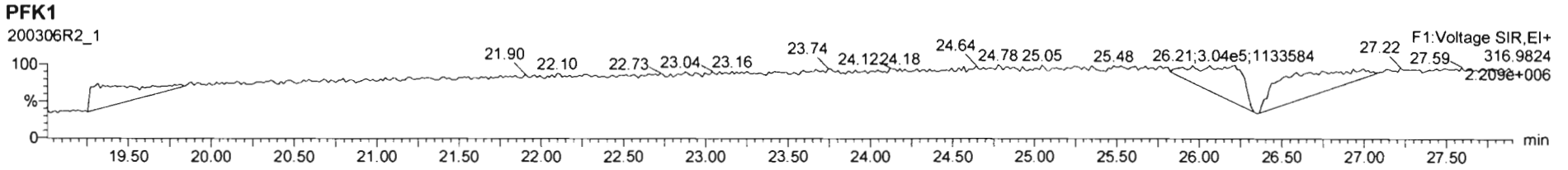




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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

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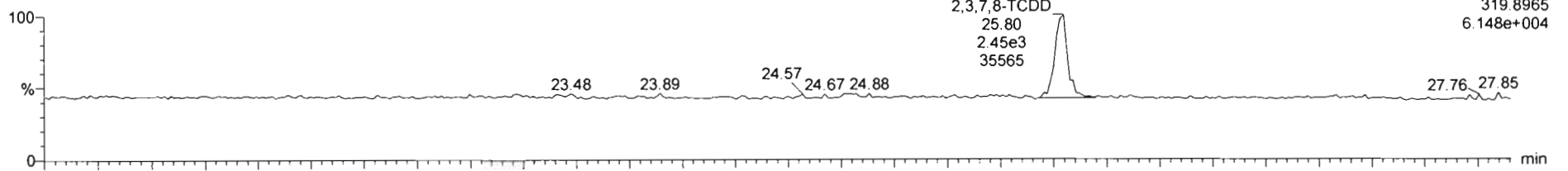
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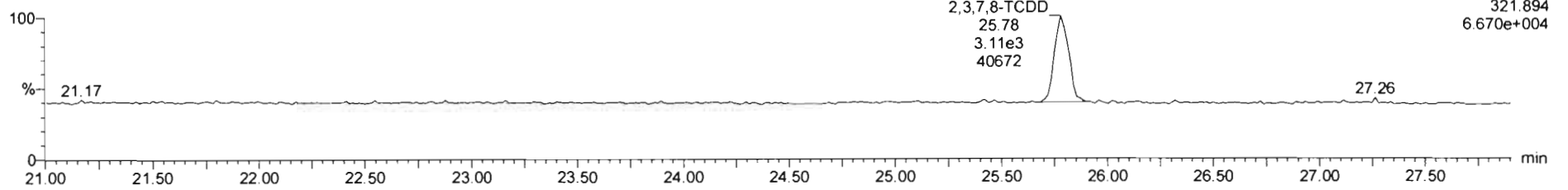
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2,3,7,8-TCDD

200306R2_2

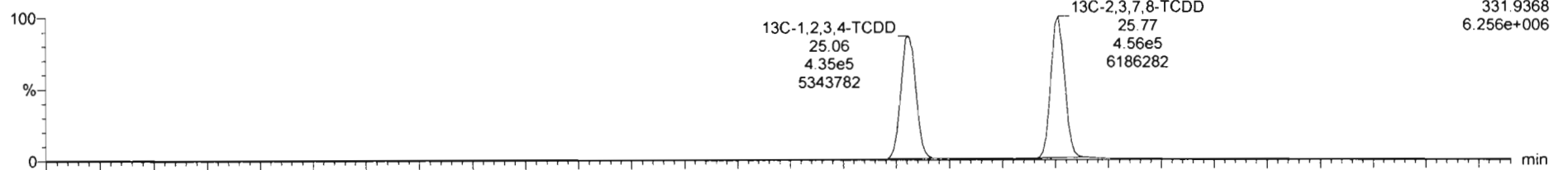


200306R2_2

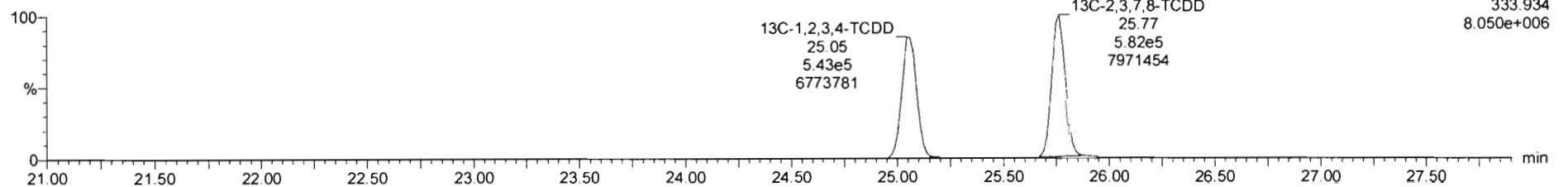


13C-2,3,7,8-TCDD

200306R2_2



200306R2_2



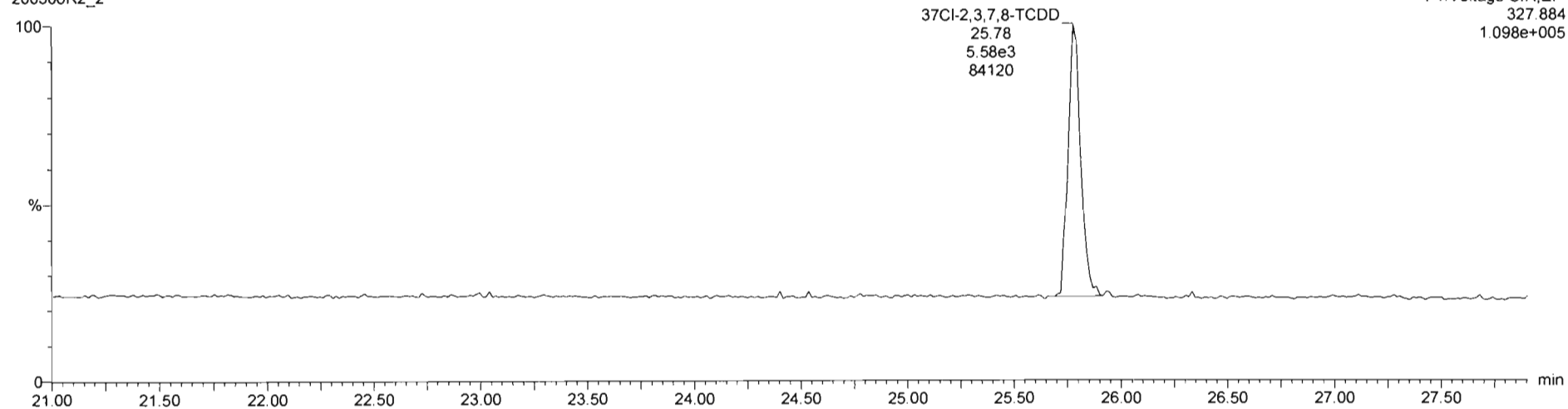
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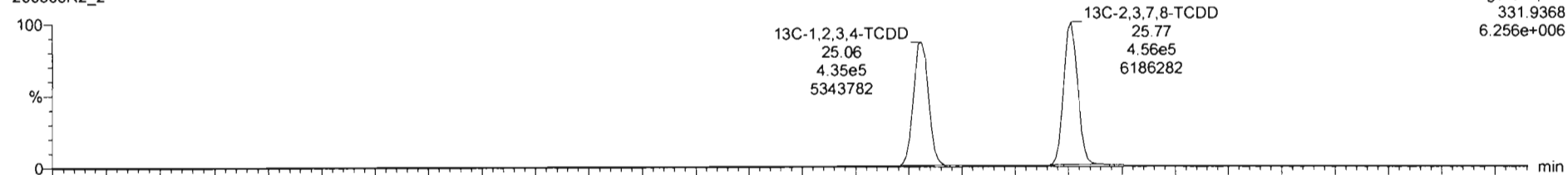
37Cl-2,3,7,8-TCDD

200306R2_2

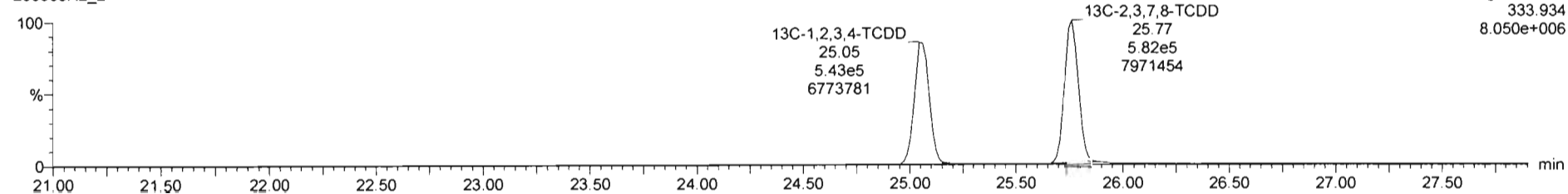


13C-1,2,3,4-TCDD

200306R2_2



200306R2_2



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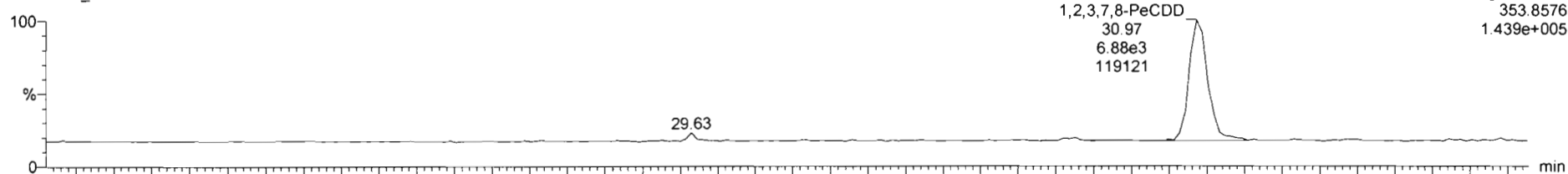
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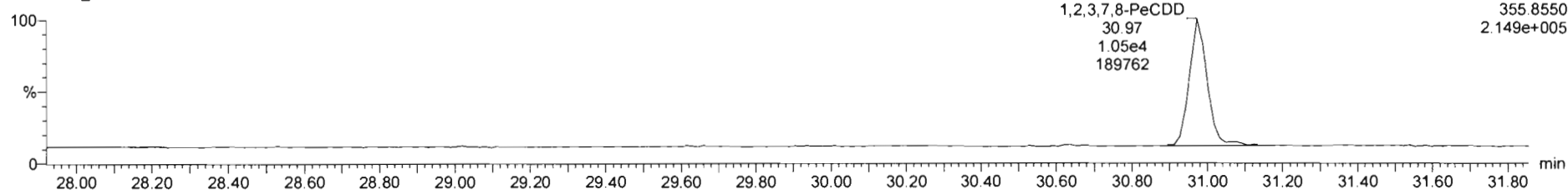
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1,2,3,7,8-PeCDD

200306R2_2

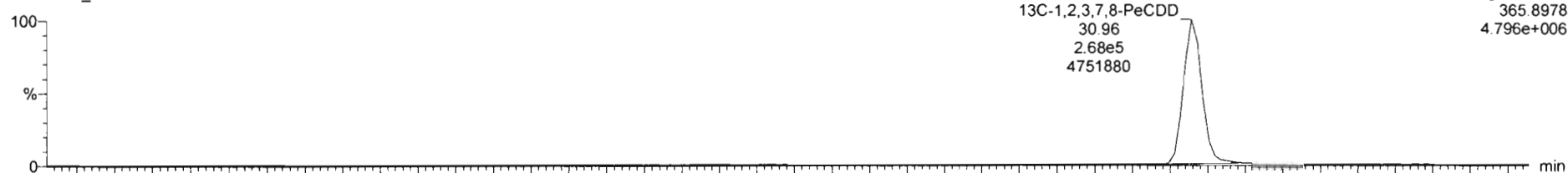


200306R2_2

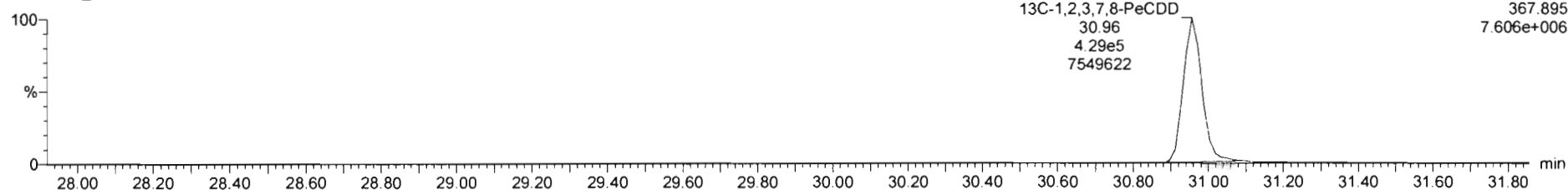


13C-1,2,3,7,8-PeCDD

200306R2_2



200306R2_2



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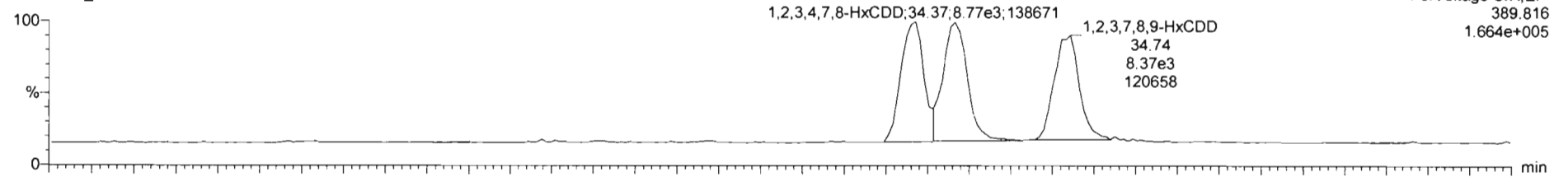
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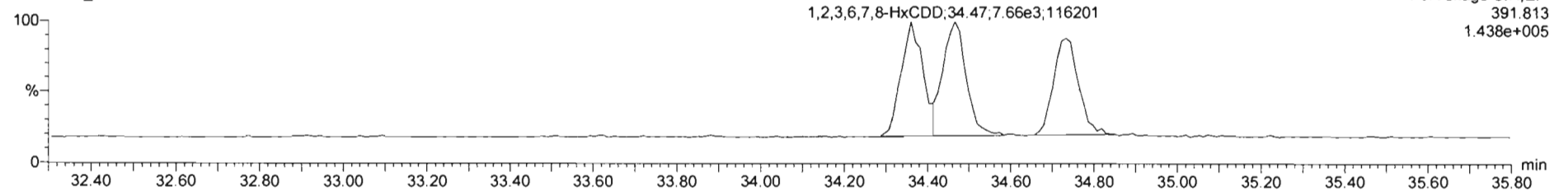
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1,2,3,4,7,8-HxCDD

200306R2_2

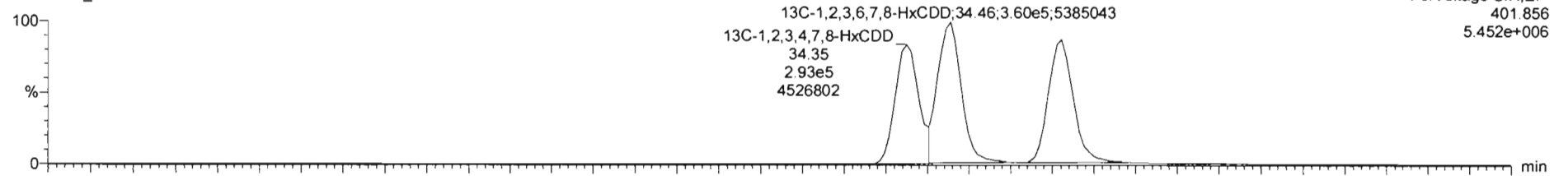


200306R2_2

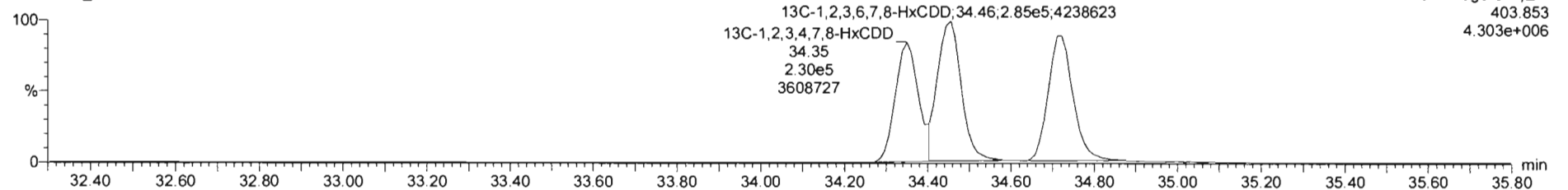


13C-1,2,3,4,7,8-HxCDD

200306R2_2



200306R2_2



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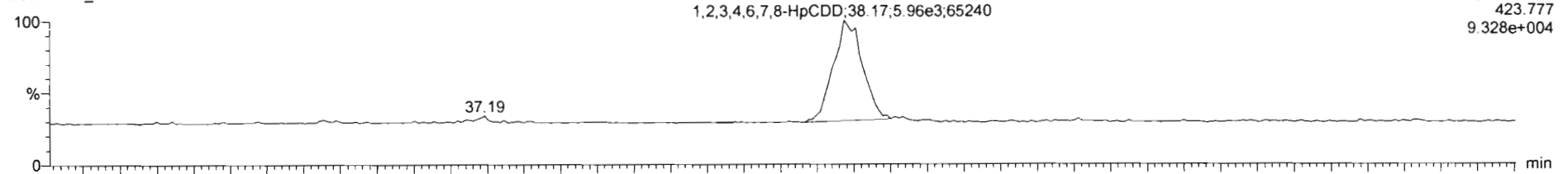
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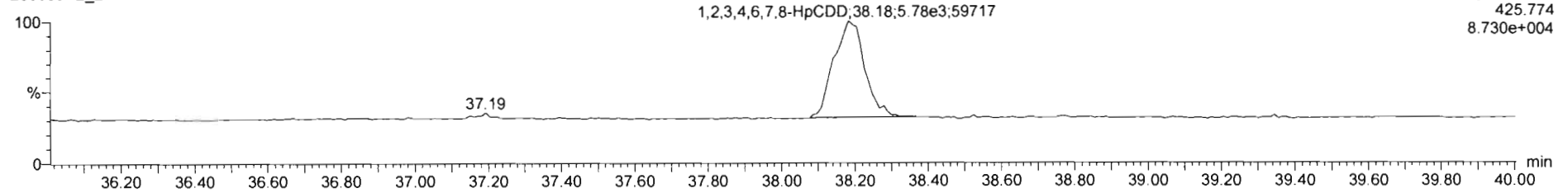
1,2,3,4,6,7,8-HpCDD

200306R2_2



F4: Voltage SIR, EI+
423.777
9.328e+004

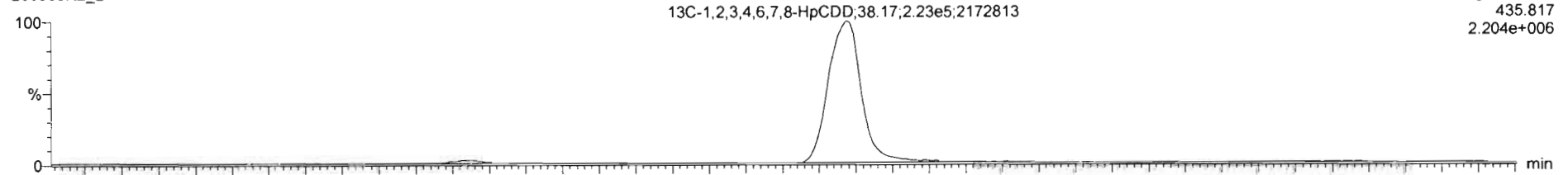
200306R2_2



F4: Voltage SIR, EI+
425.774
8.730e+004

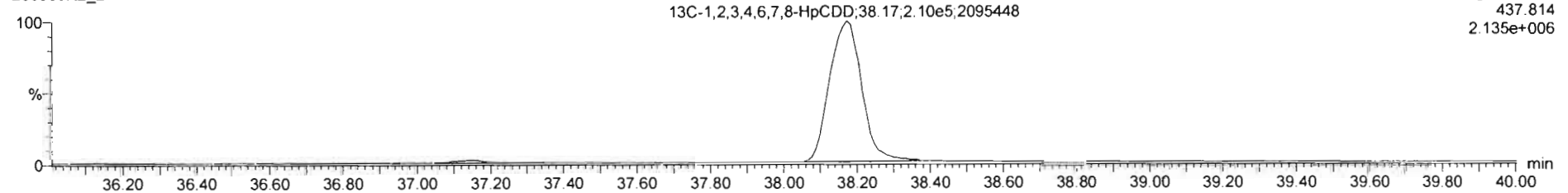
13C-1,2,3,4,6,7,8-HpCDD

200306R2_2



F4: Voltage SIR, EI+
435.817
2.204e+006

200306R2_2



F4: Voltage SIR, EI+
437.814
2.135e+006

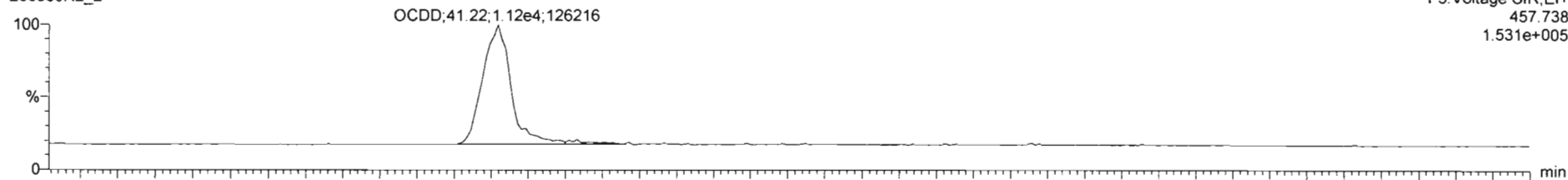
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Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

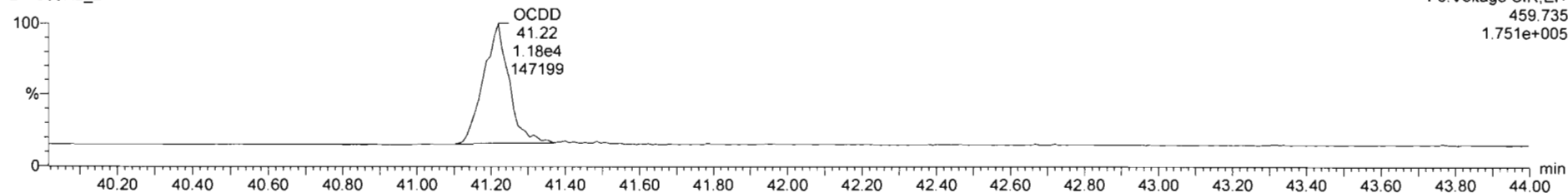
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OCDD

200306R2_2



200306R2_2

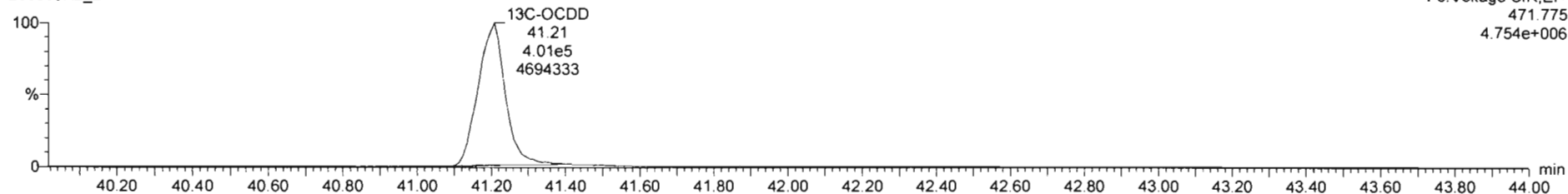


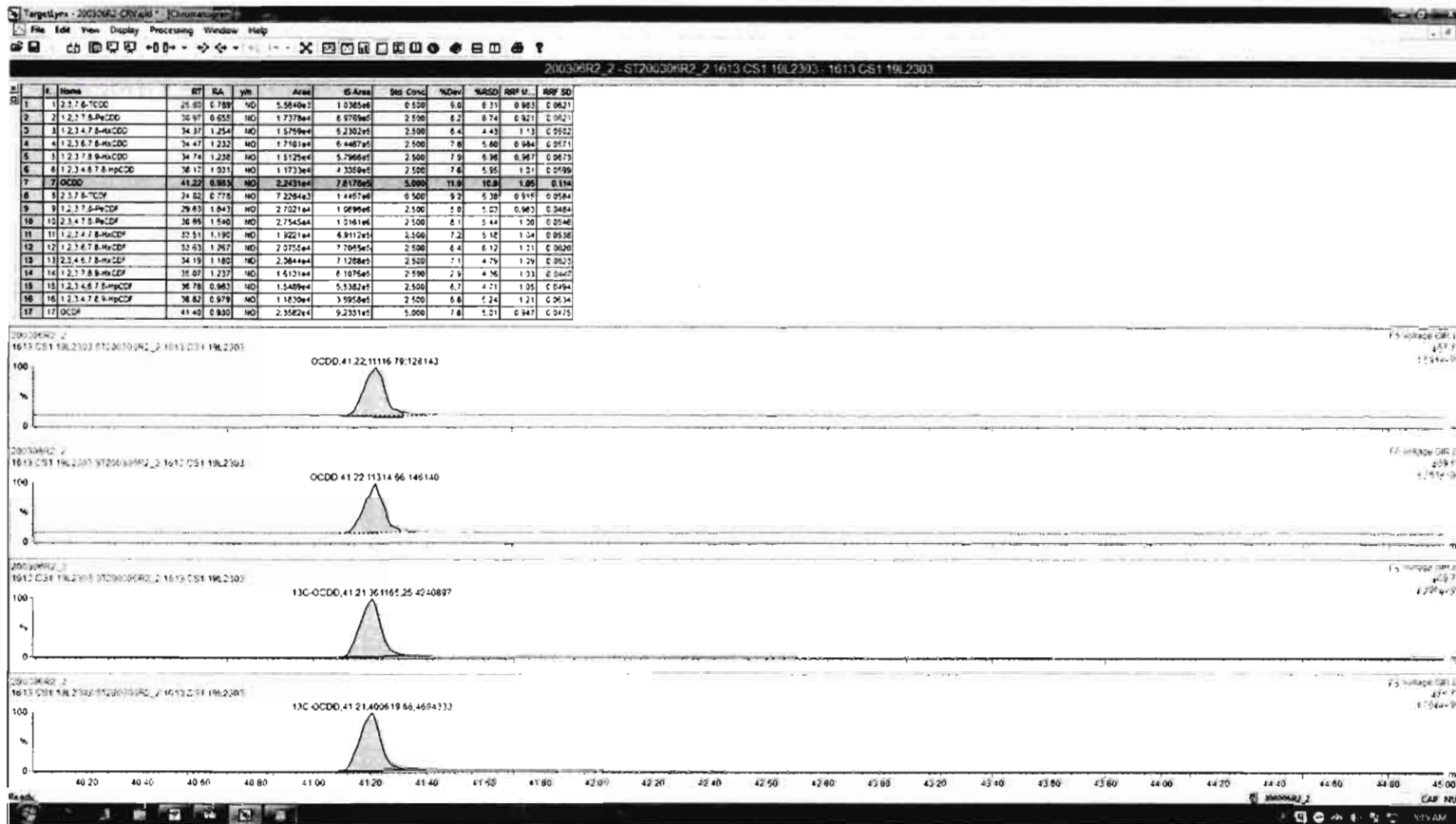
13C-OCDD

200306R2_2



200306R2_2





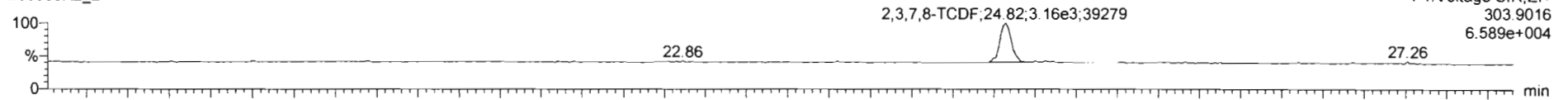
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

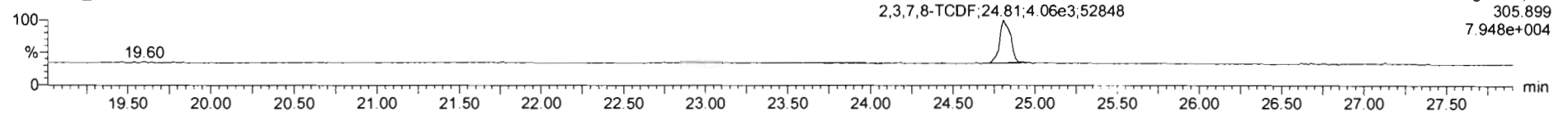
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2,3,7,8-TCDF

200306R2_2

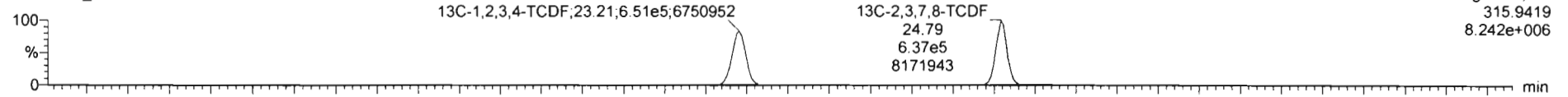


200306R2_2

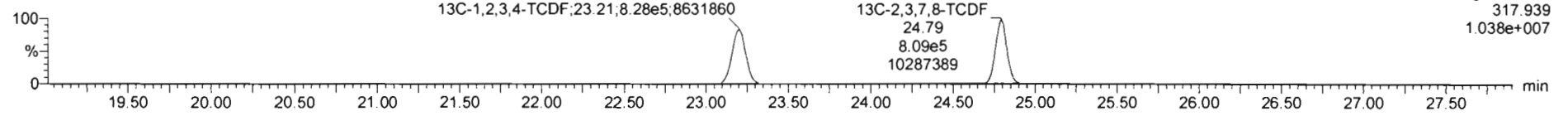


13C-2,3,7,8-TCDF

200306R2_2

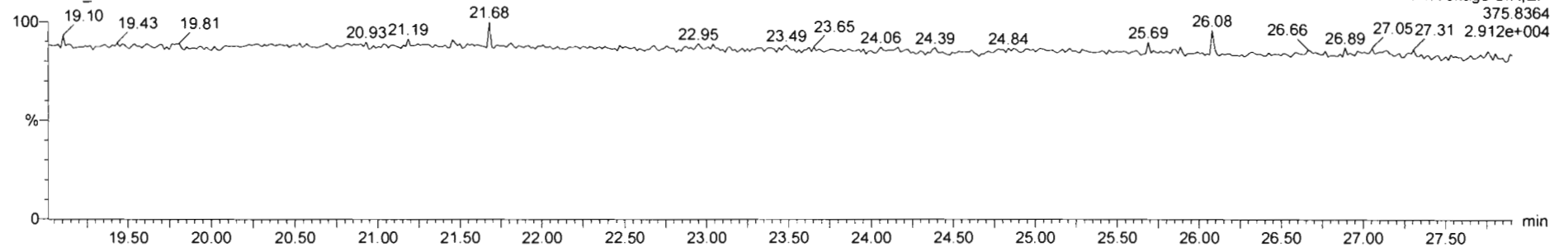


200306R2_2



DPE1

200306R2_2



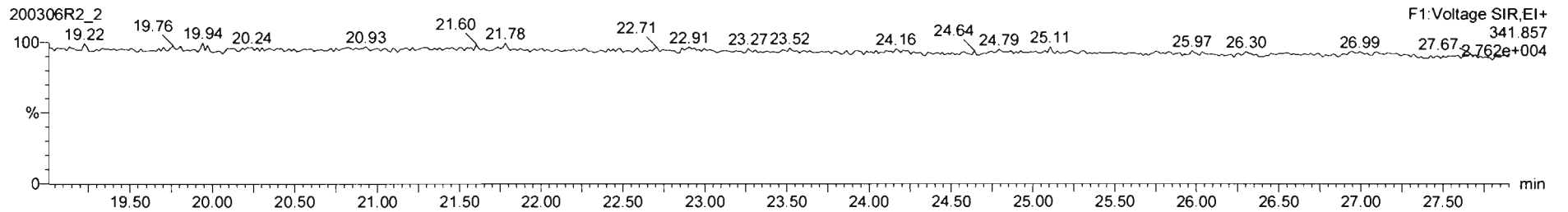
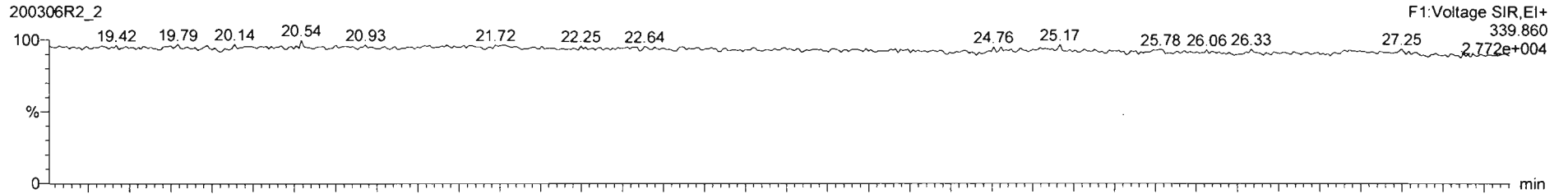
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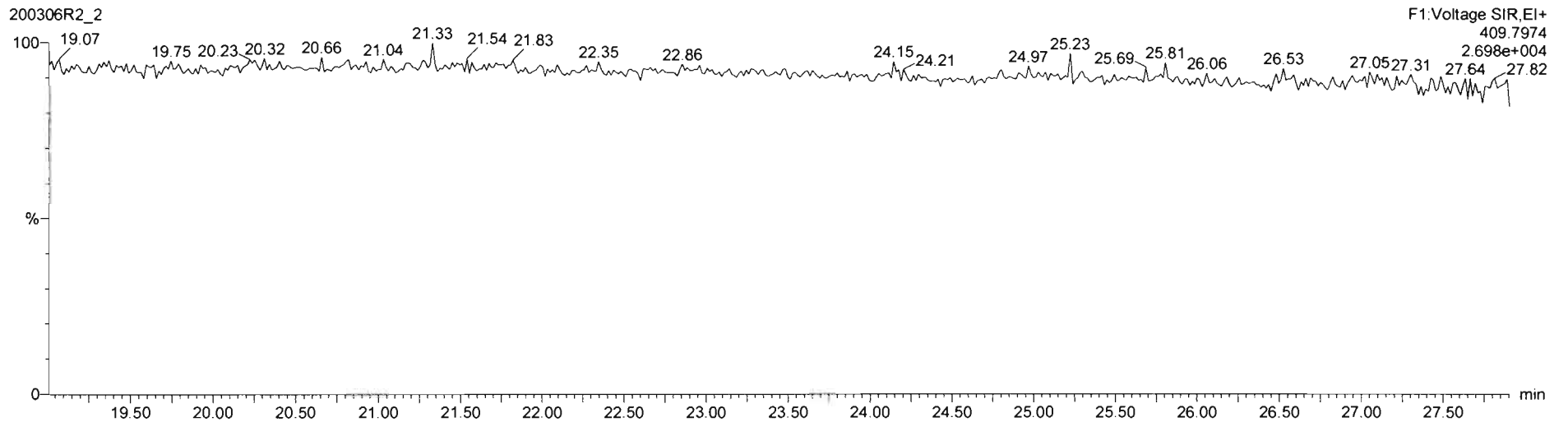
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1st Func. Penta-Furans



DPE6



Dataset: Untitled

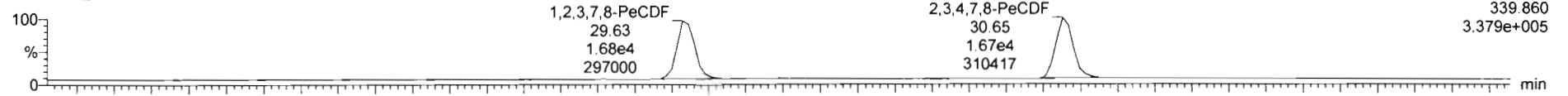
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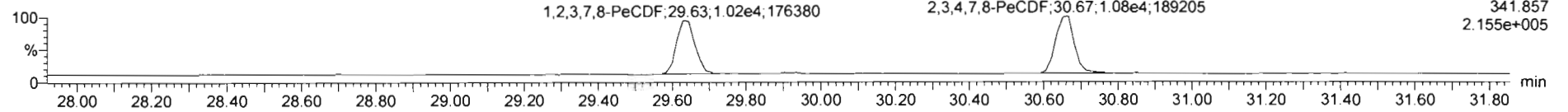
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1,2,3,7,8-PeCDF

200306R2_2

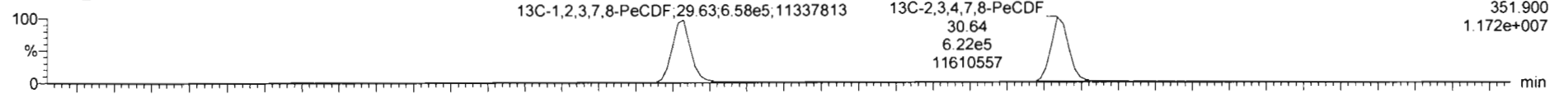


200306R2_2

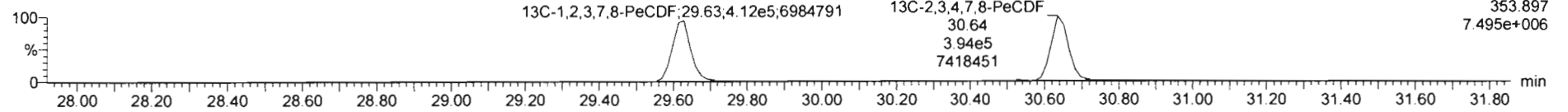


13C-1,2,3,7,8-PeCDF

200306R2_2

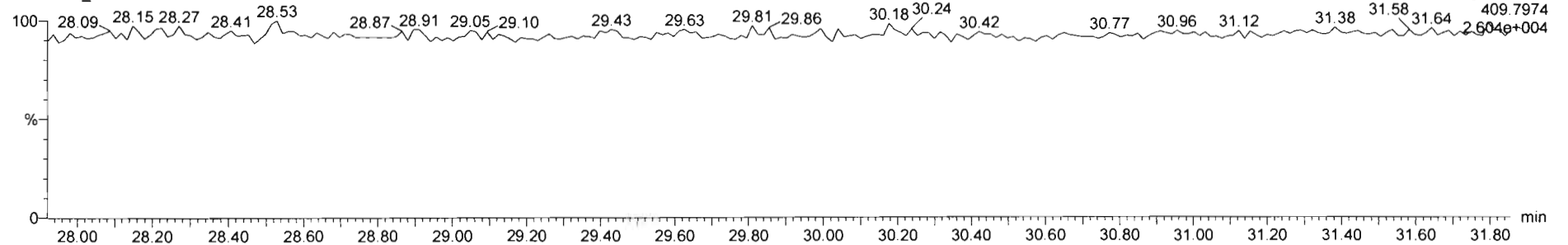


200306R2_2



DPE2

200306R2_2



Dataset: Untitled

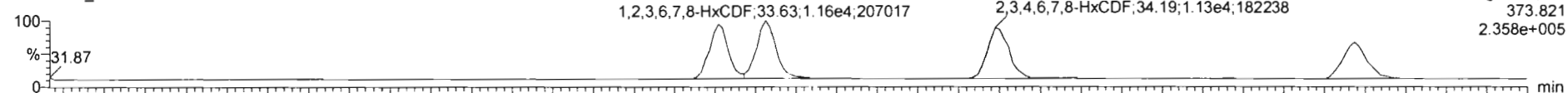
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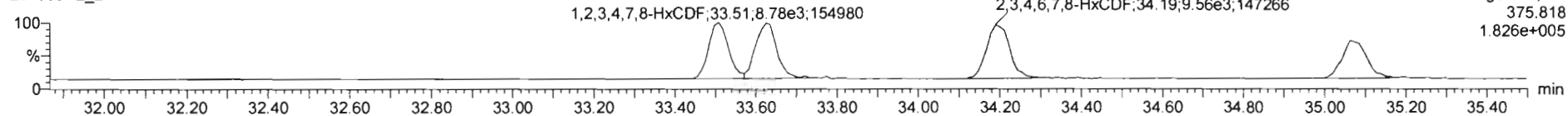
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1,2,3,4,7,8-HxCDF

200306R2_2

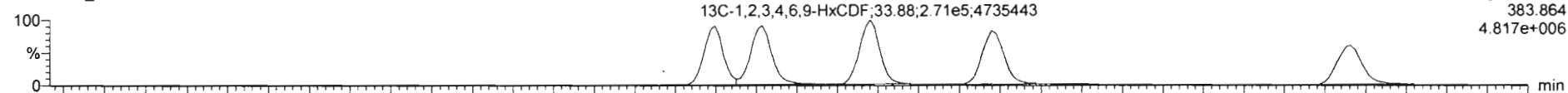


200306R2_2

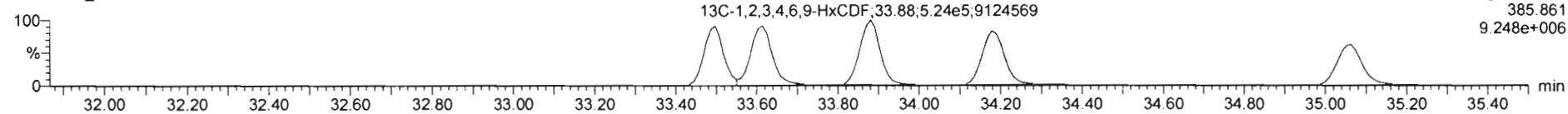


13C-1,2,3,4,7,8-HxCDF

200306R2_2

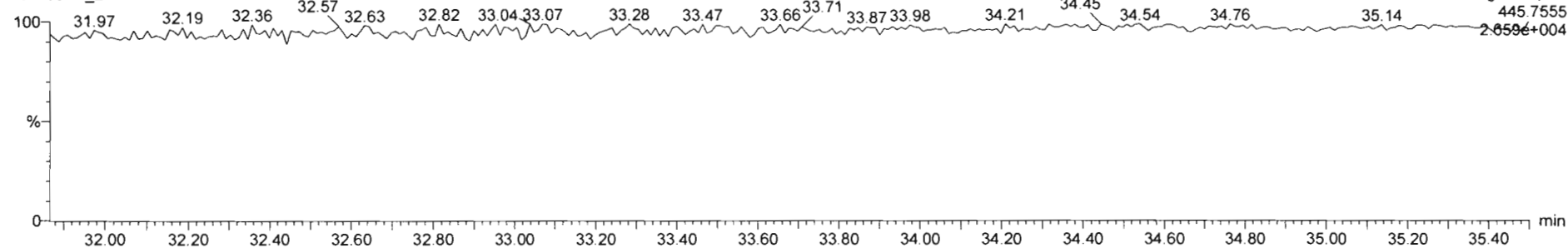


200306R2_2



DPE3

200306R2_2



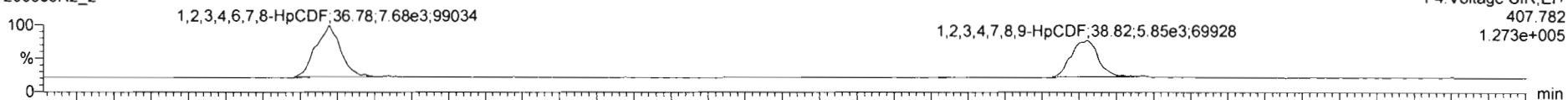
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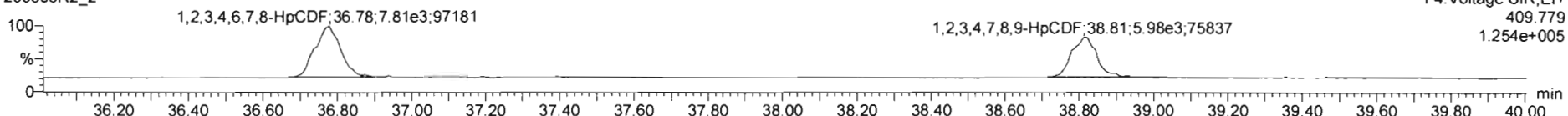
1,2,3,4,6,7,8-HpCDF

200306R2_2



F4: Voltage SIR, EI+
407.782
1.273e+005

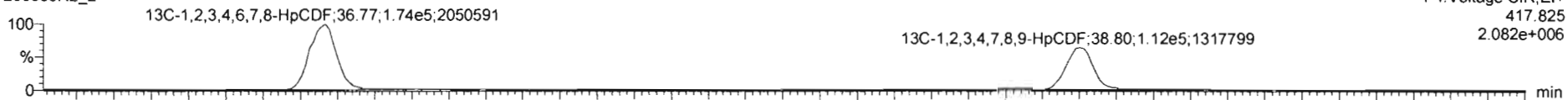
200306R2_2



F4: Voltage SIR, EI+
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1.254e+005

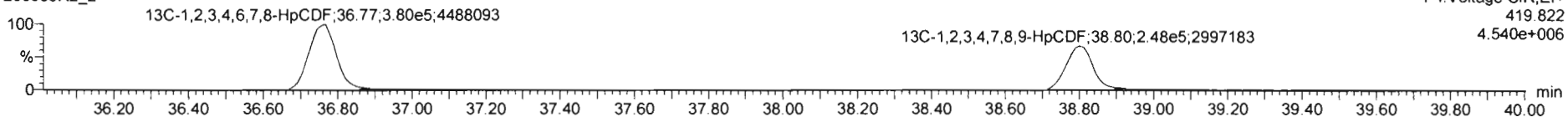
13C-1,2,3,4,6,7,8-HpCDF

200306R2_2



F4: Voltage SIR, EI+
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2.082e+006

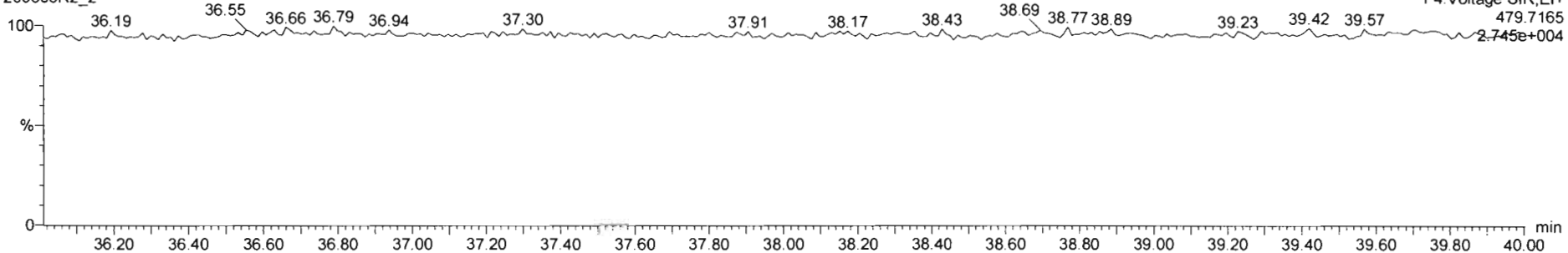
200306R2_2



F4: Voltage SIR, EI+
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4.540e+006

DPE4

200306R2_2



F4: Voltage SIR, EI+
479.7165
2.745e+004

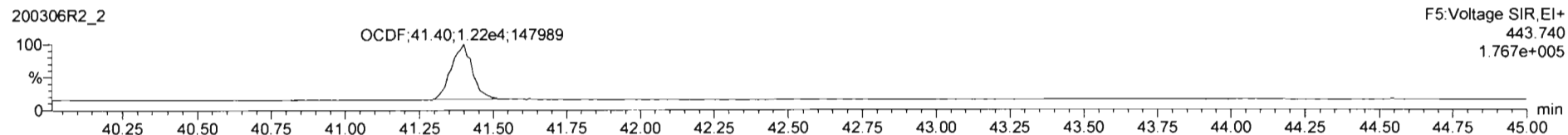
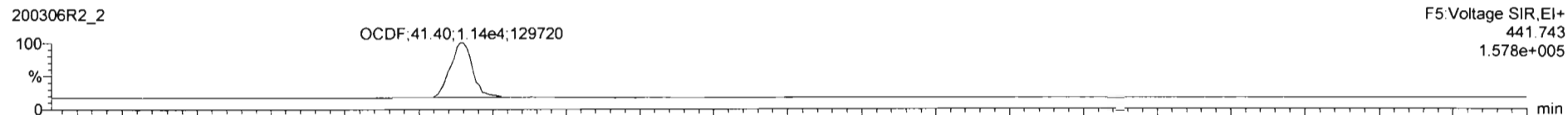
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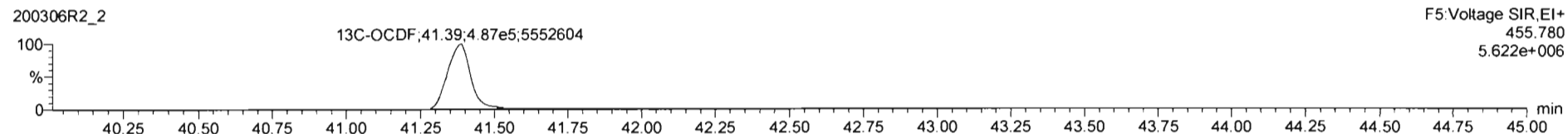
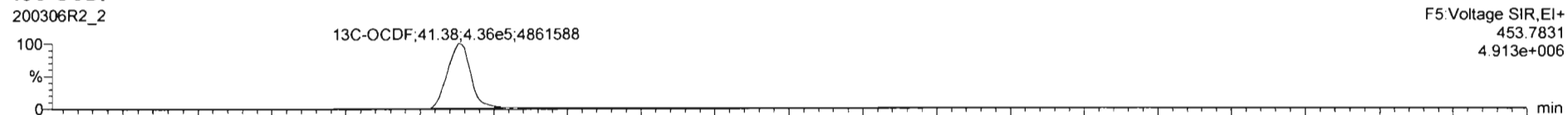
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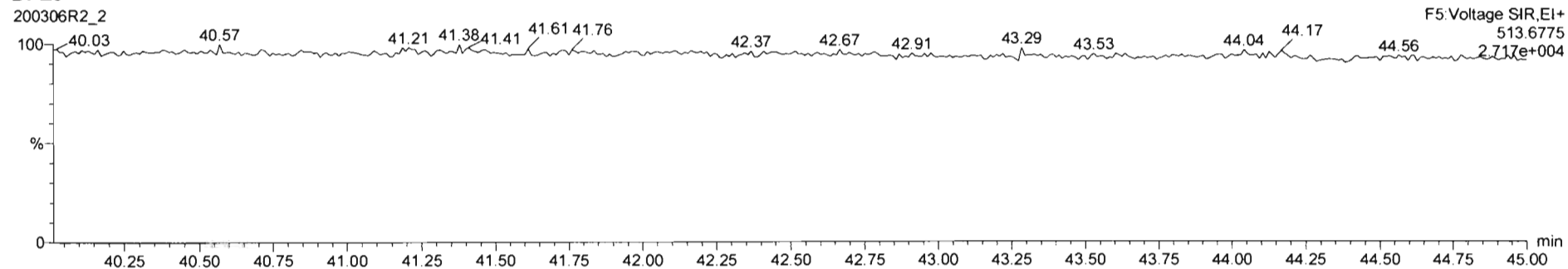
OCDF



13C-OCDF



DPE5

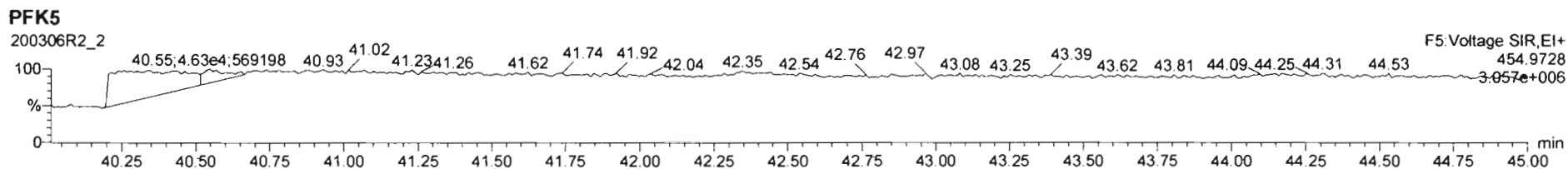
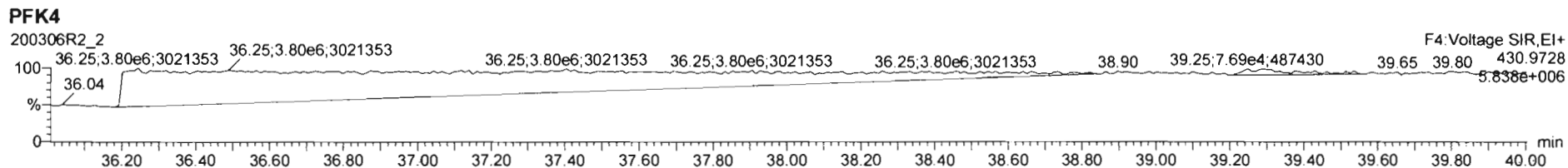
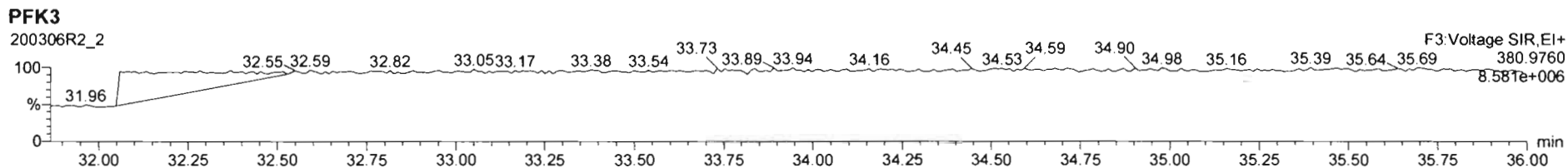
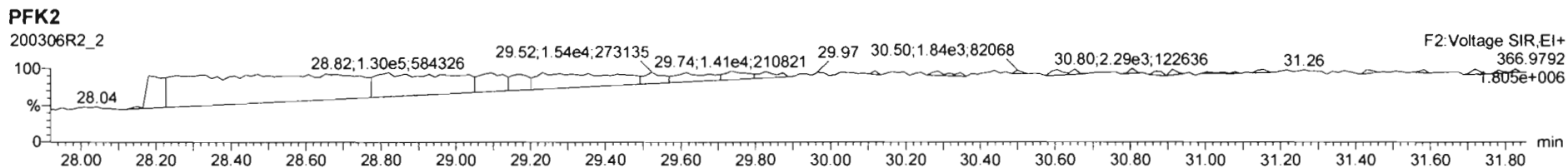
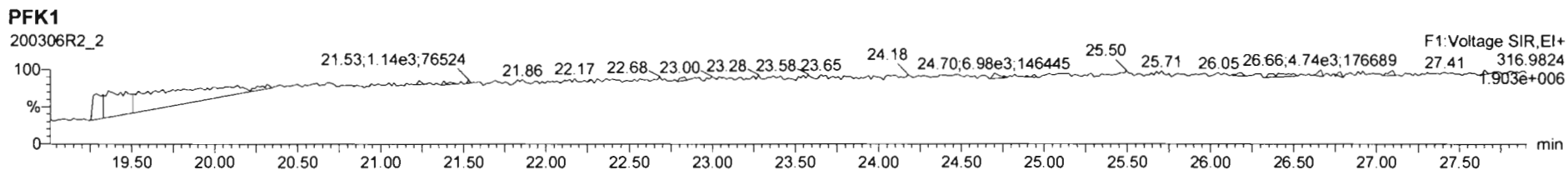


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Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

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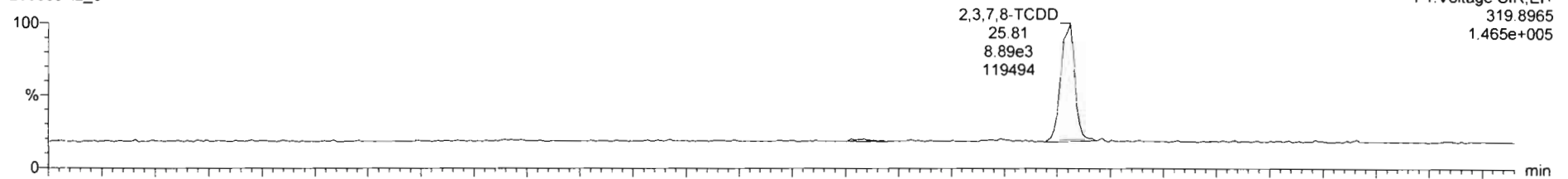
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

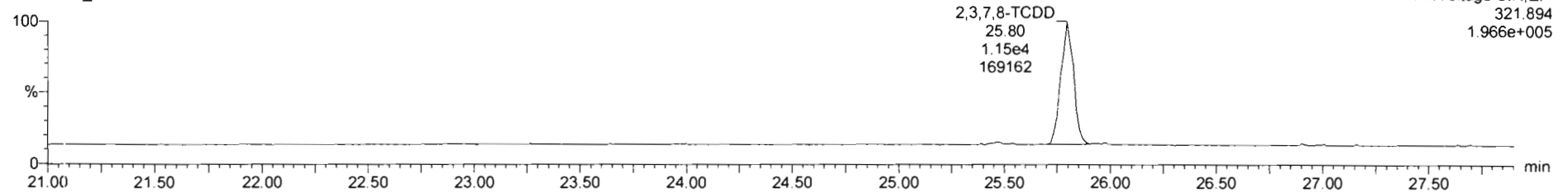
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2,3,7,8-TCDD

200306R2_3

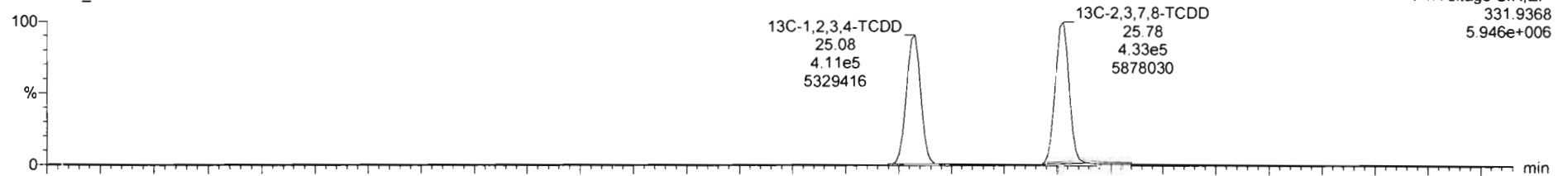


200306R2_3

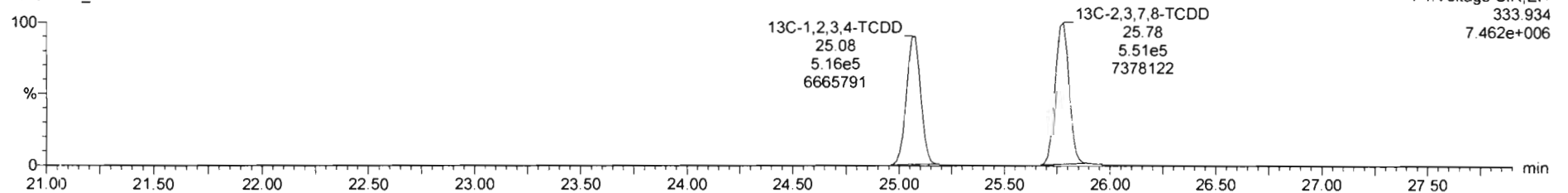


13C-2,3,7,8-TCDD

200306R2_3



200306R2_3



Dataset: Untitled

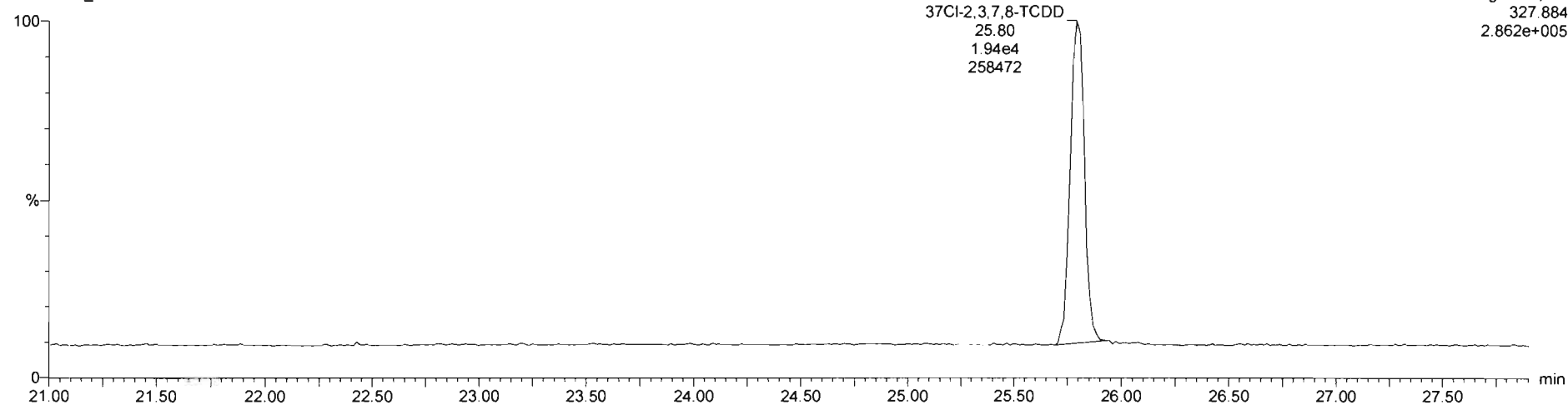
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

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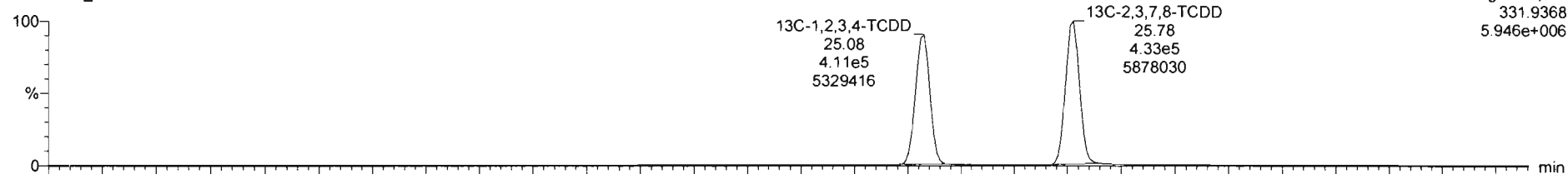
37Cl-2,3,7,8-TCDD

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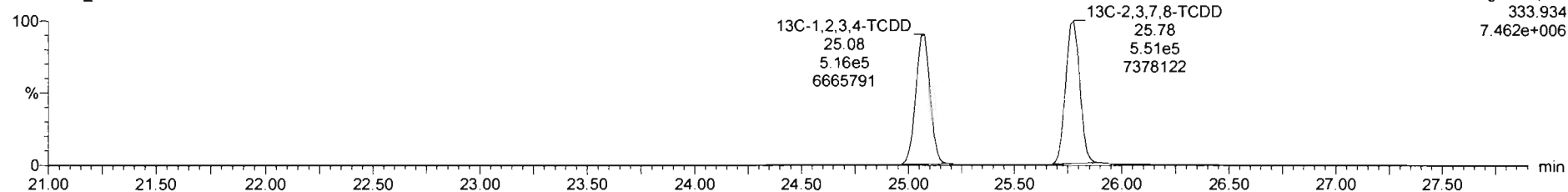


13C-1,2,3,4-TCDD

200306R2_3



200306R2_3



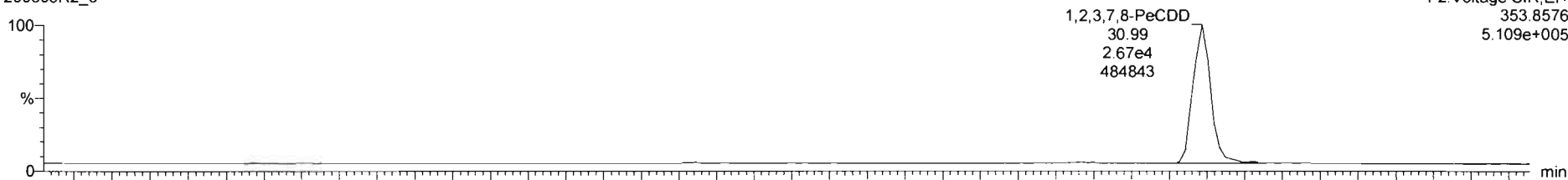
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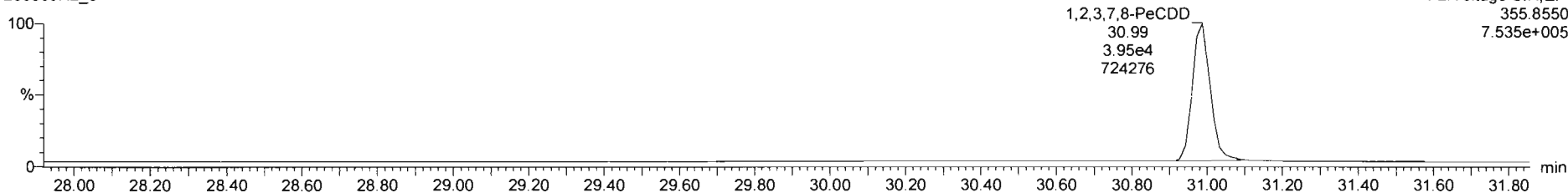
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1,2,3,7,8-PeCDD

200306R2_3



200306R2_3

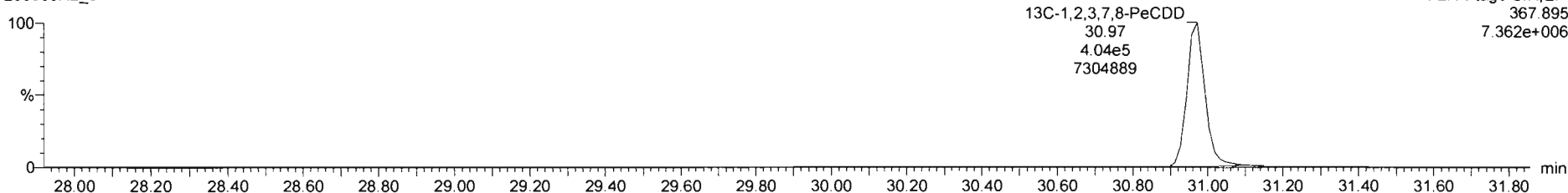


13C-1,2,3,7,8-PeCDD

200306R2_3



200306R2_3



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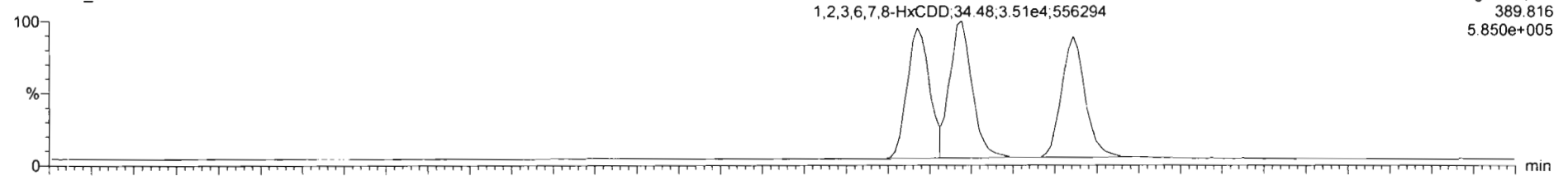
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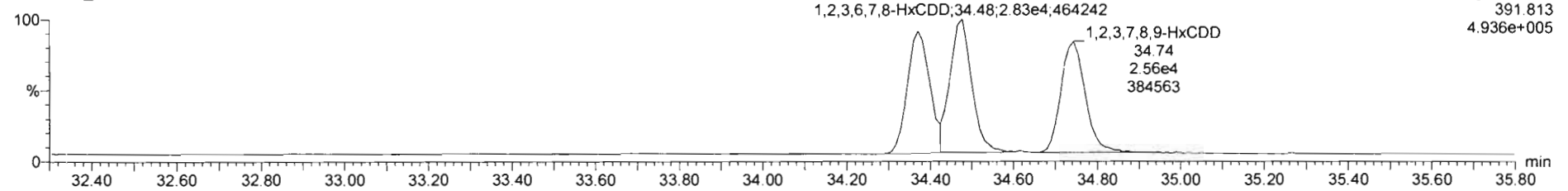
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1,2,3,4,7,8-HxCDD

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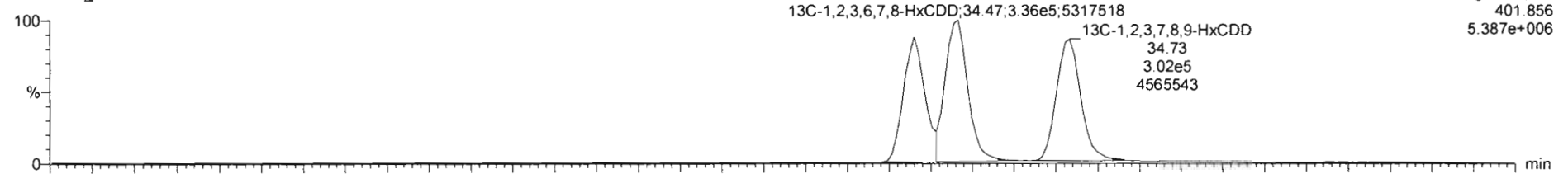


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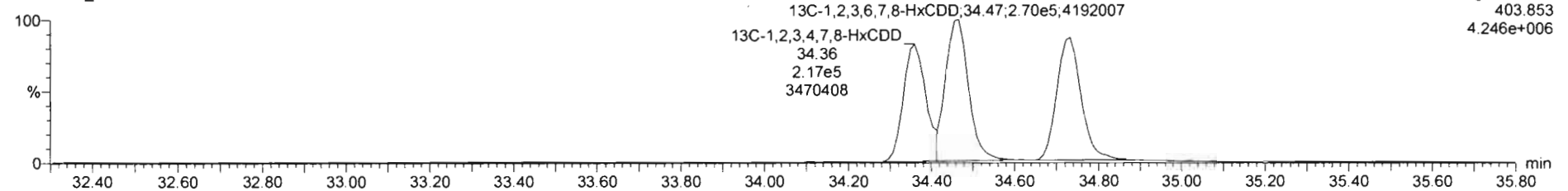


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200306R2_3



200306R2_3



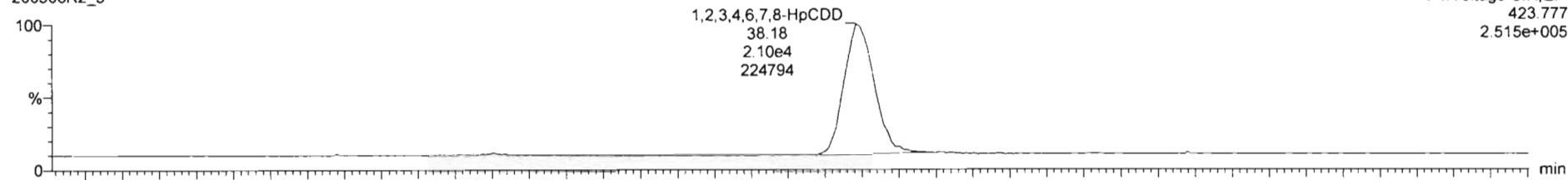
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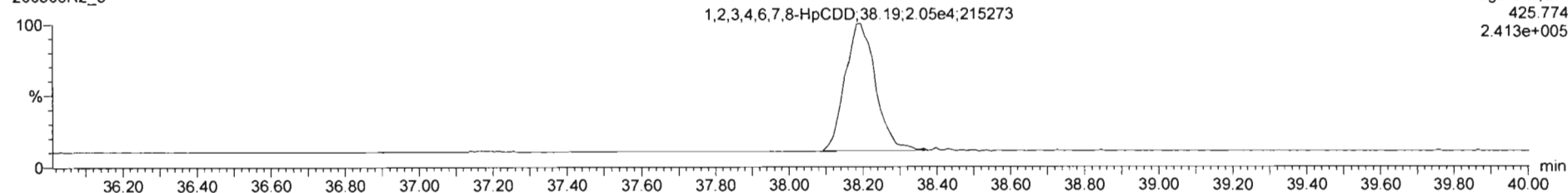
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1,2,3,4,6,7,8-HpCDD

200306R2_3

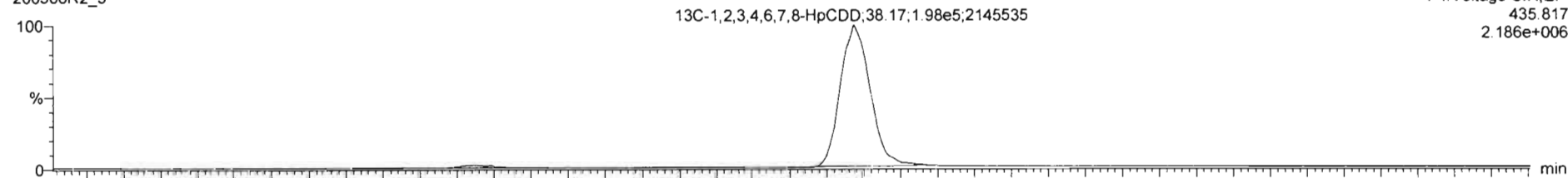


200306R2_3

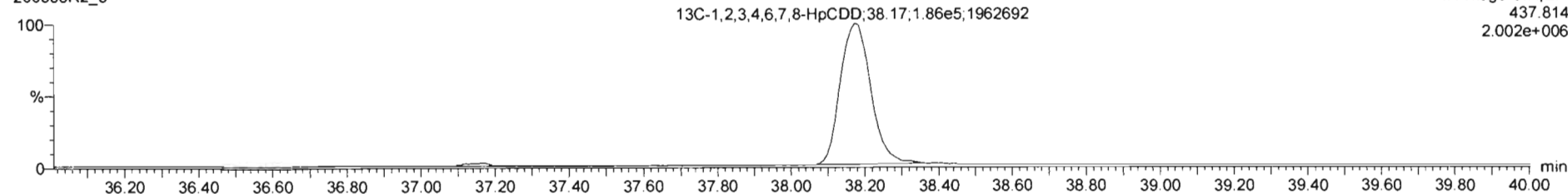


13C-1,2,3,4,6,7,8-HpCDD

200306R2_3



200306R2_3



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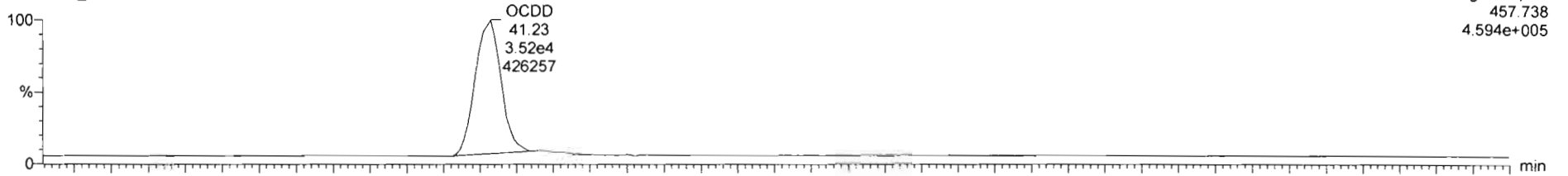
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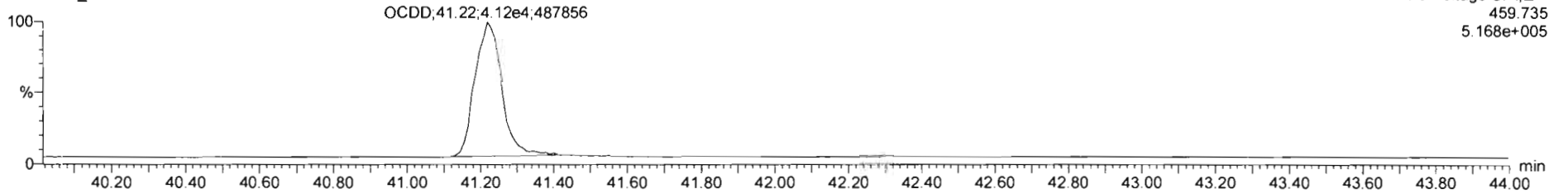
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OCDD

200306R2_3

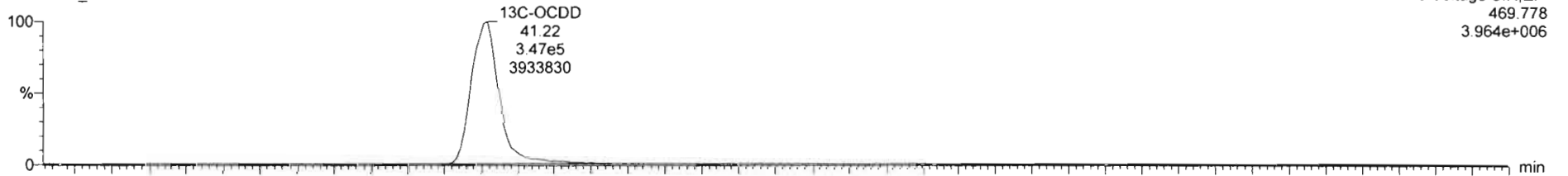


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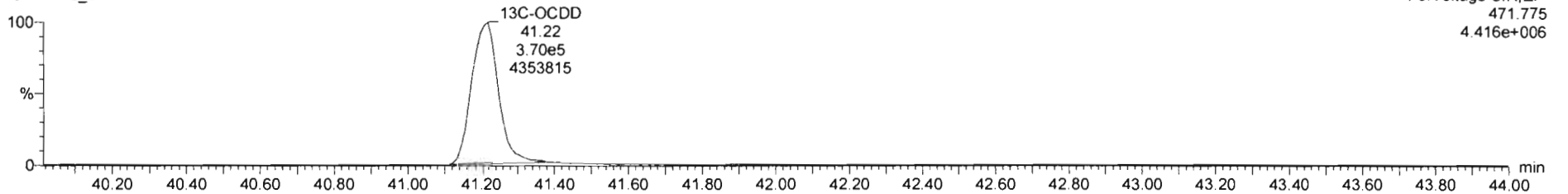


13C-OCDD

200306R2_3



200306R2_3



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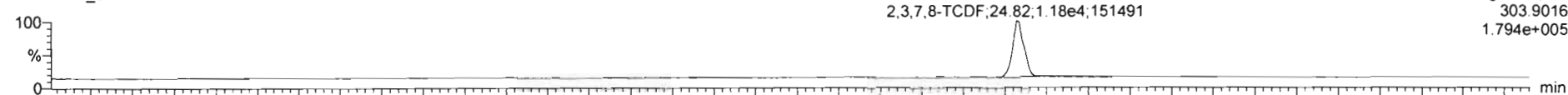
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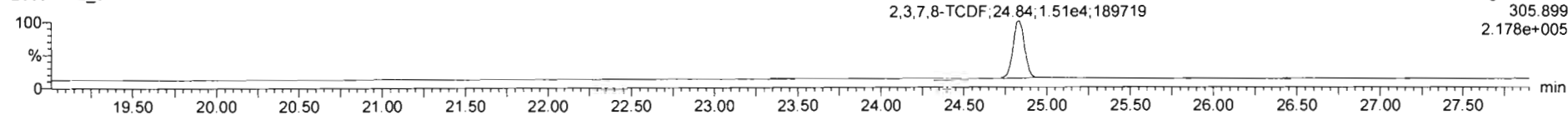
2,3,7,8-TCDF

200306R2_3



F1:Voltage SIR,EI+
303.9016
1.794e+005

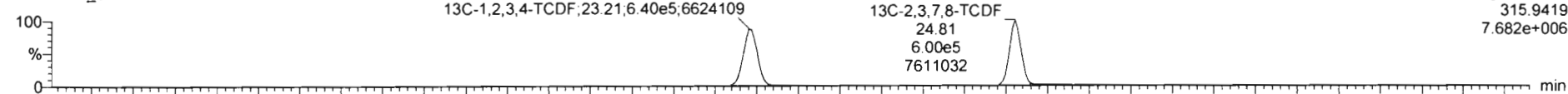
200306R2_3



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305.899
2.178e+005

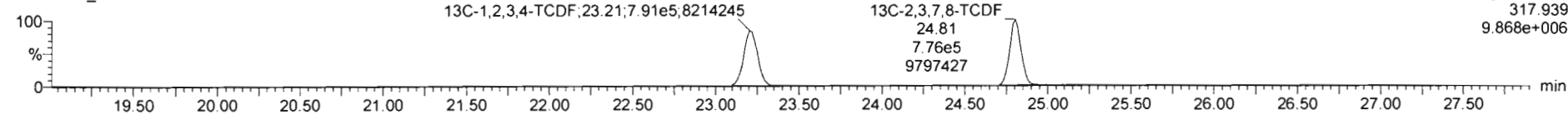
13C-2,3,7,8-TCDF

200306R2_3



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315.9419
7.682e+006

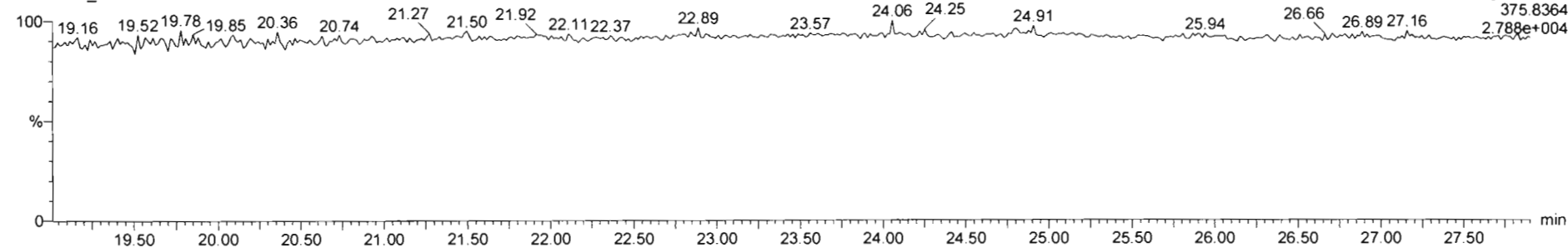
200306R2_3



F1:Voltage SIR,EI+
317.939
9.868e+006

DPE1

200306R2_3



F1:Voltage SIR,EI+
375.8364
2.788e+004

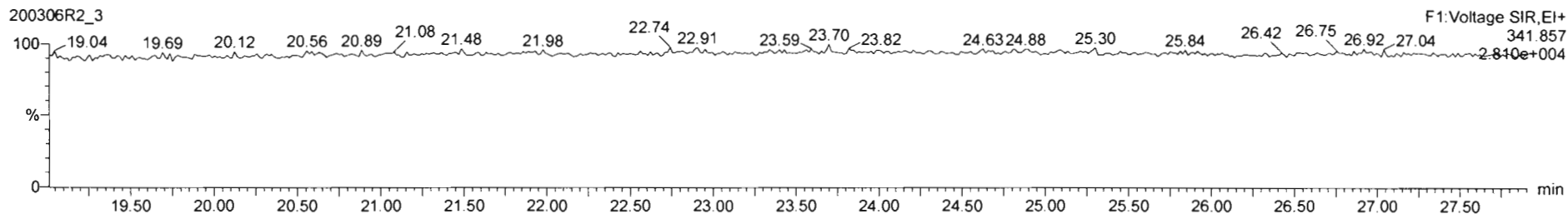
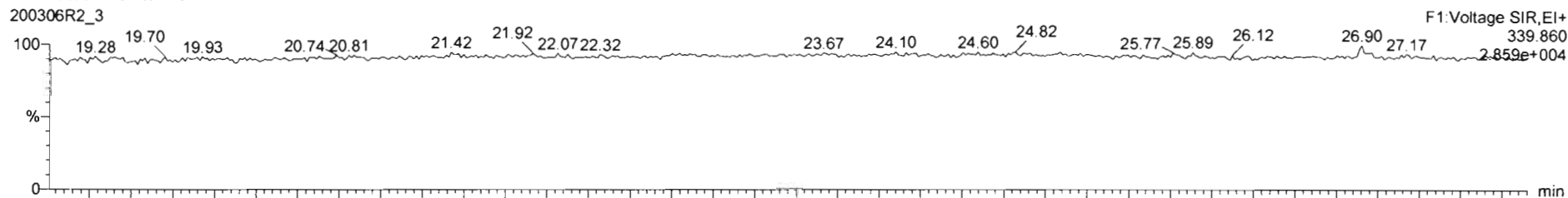
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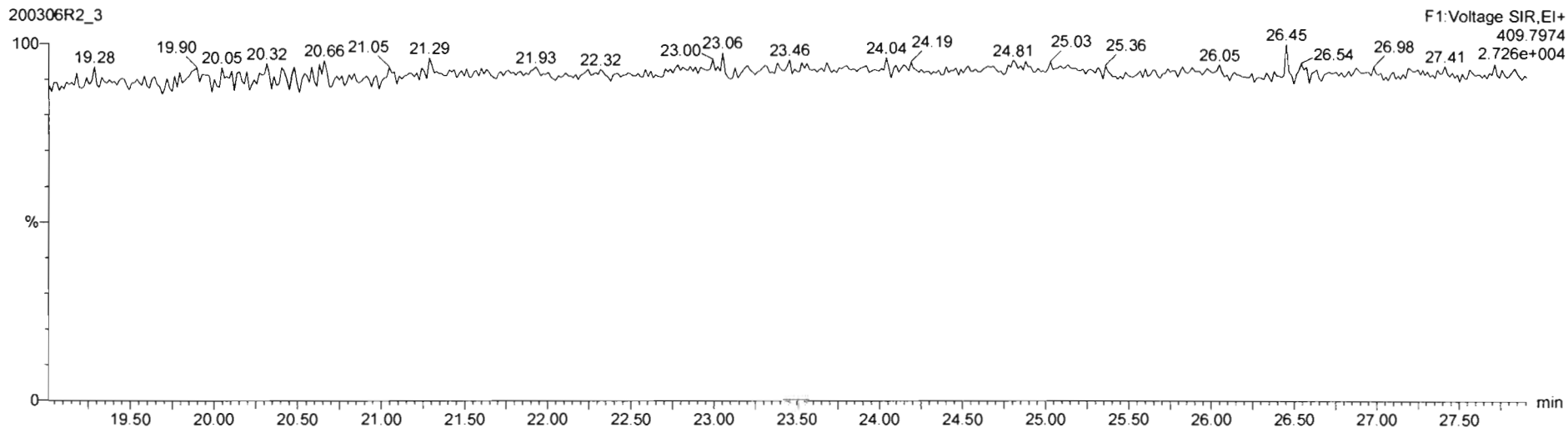
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DPE6



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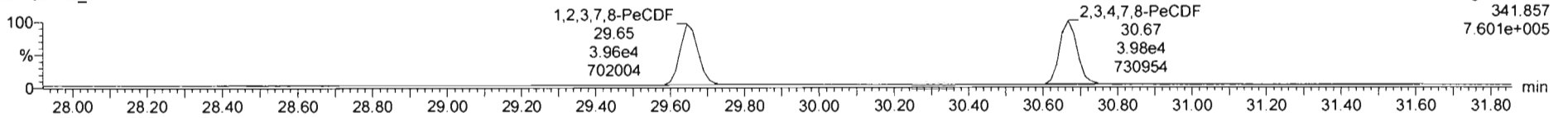
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1,2,3,7,8-PeCDF

200306R2_3

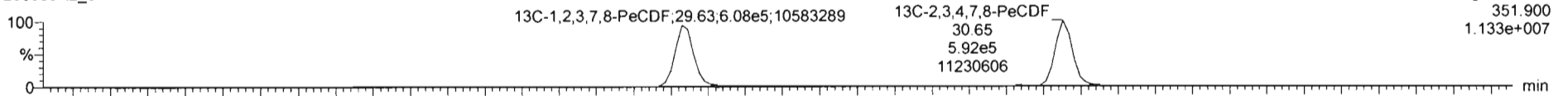


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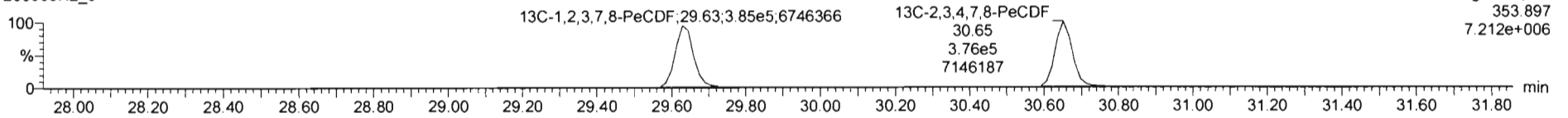


13C-1,2,3,7,8-PeCDF

200306R2_3

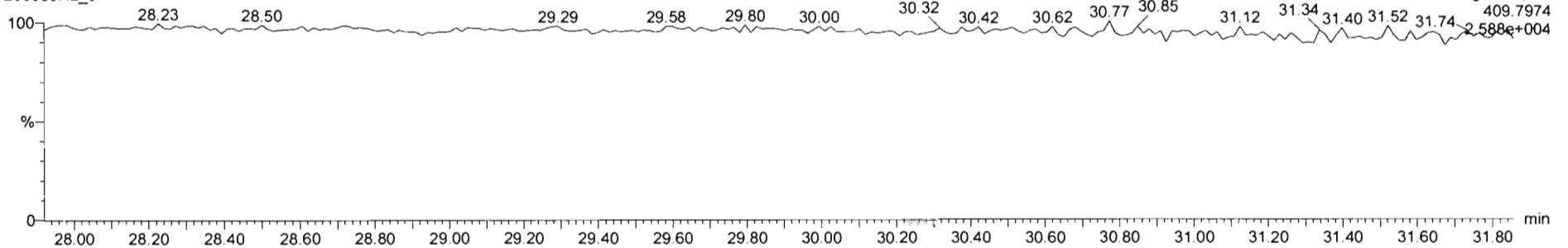


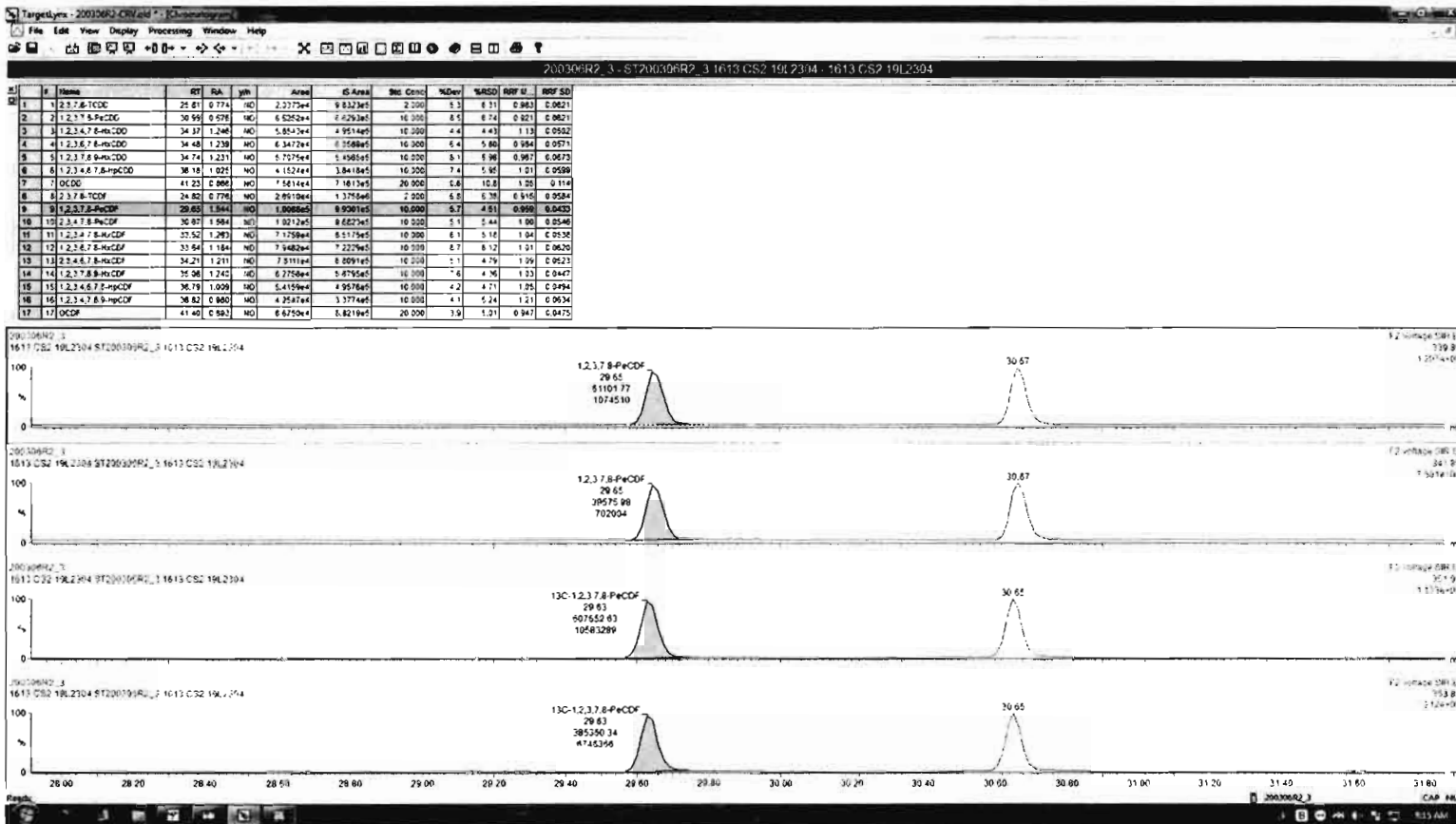
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DPE2

200306R2_3





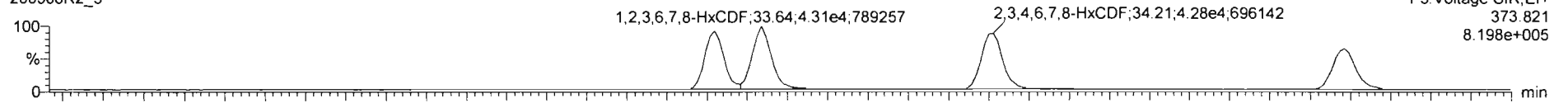
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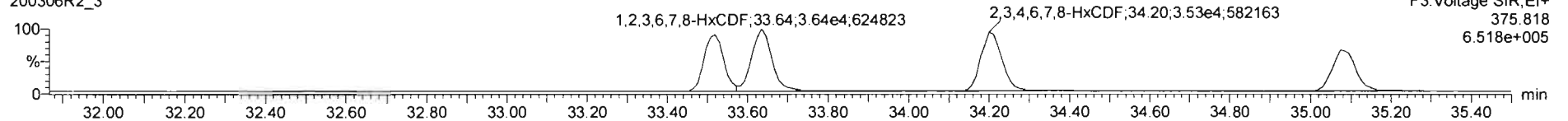
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1,2,3,4,7,8-HxCDF

200306R2_3

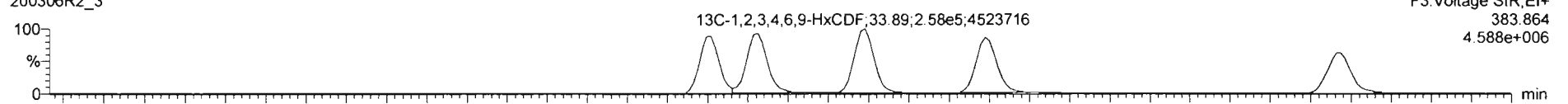


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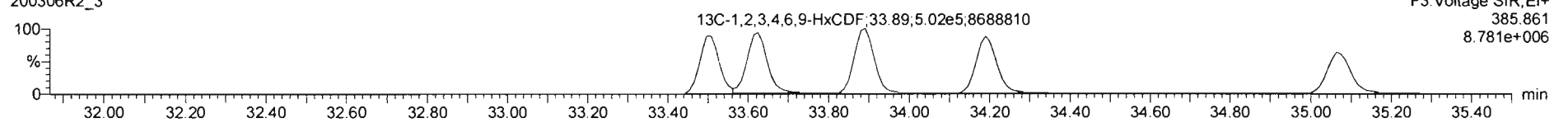


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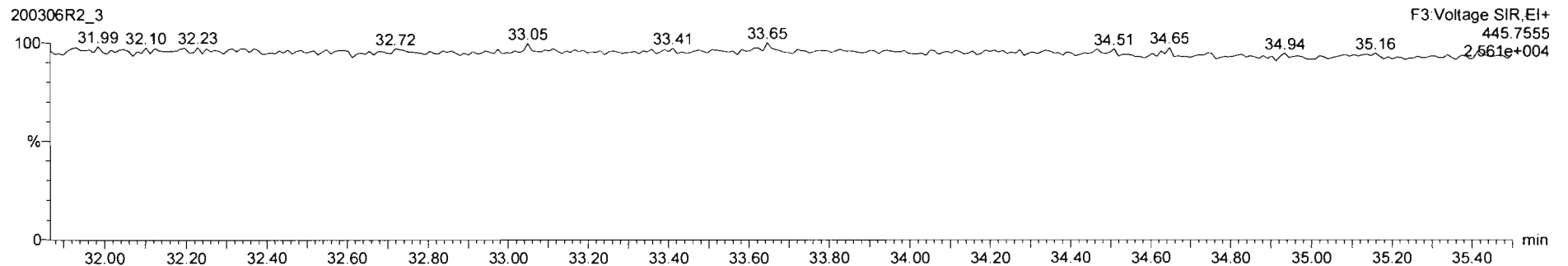


200306R2_3



DPE3

200306R2_3



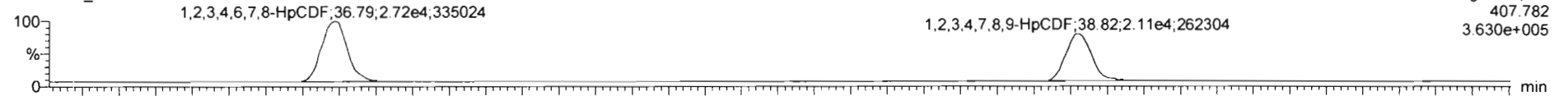
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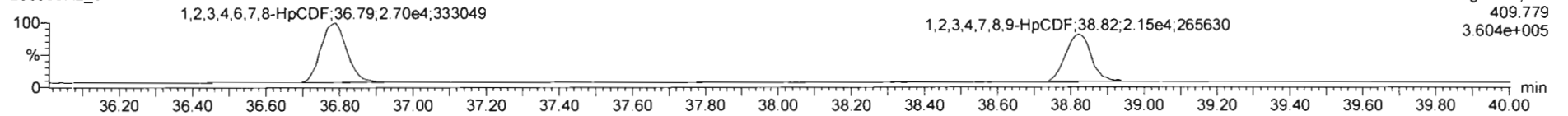
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1,2,3,4,6,7,8-HpCDF

200306R2_3

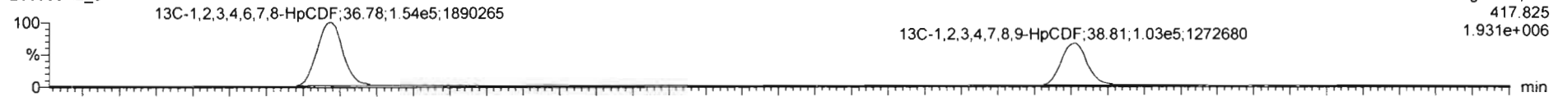


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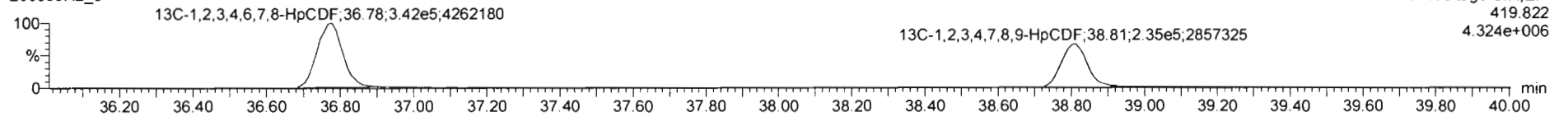


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200306R2_3

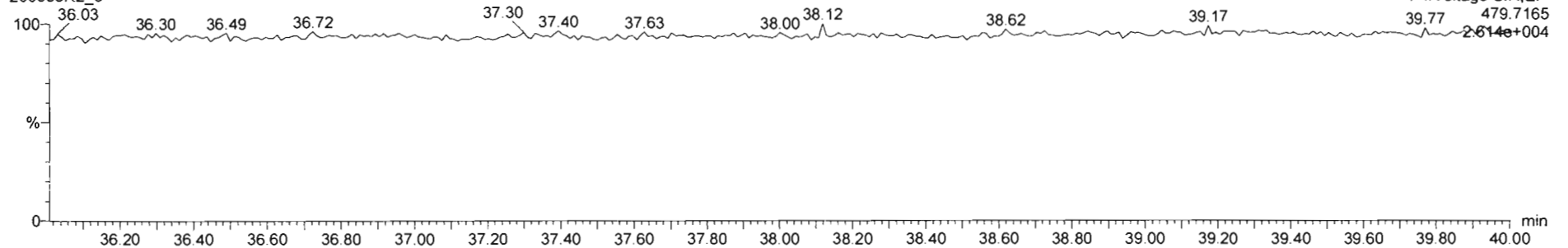


200306R2_3



DPE4

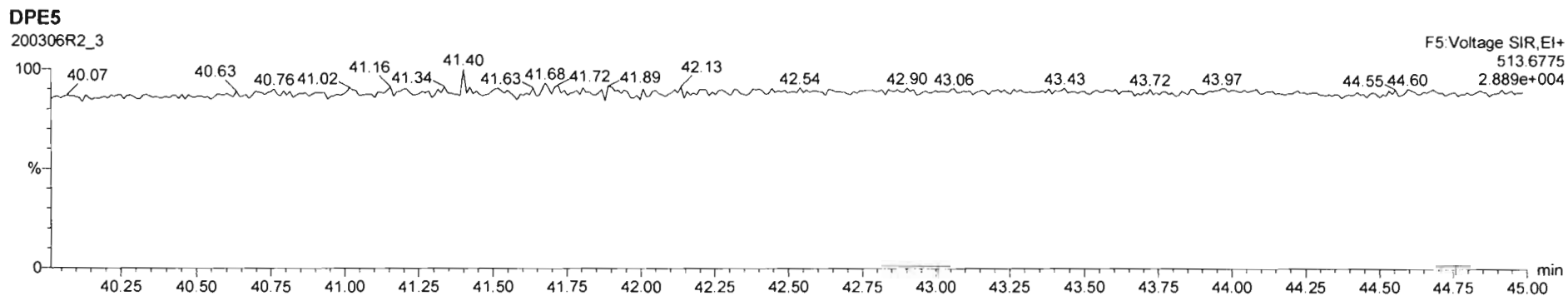
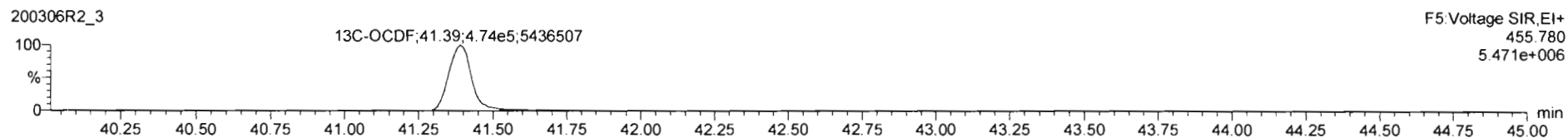
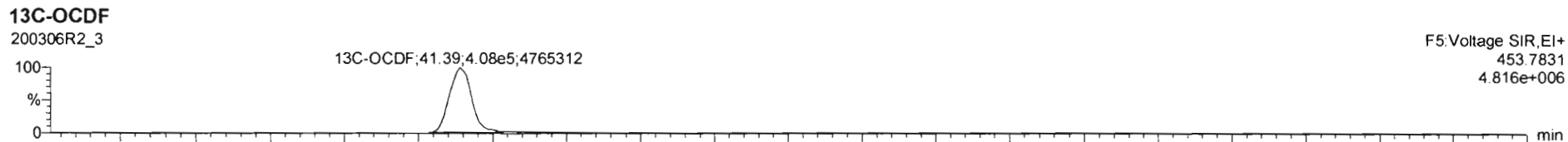
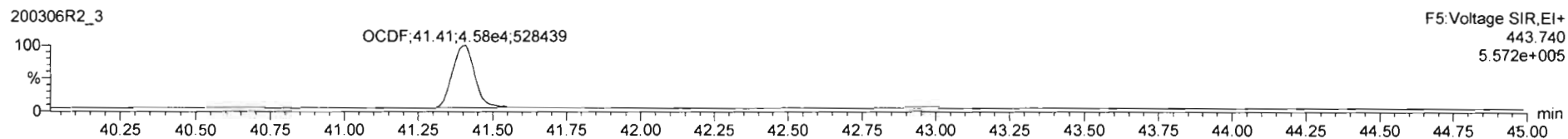
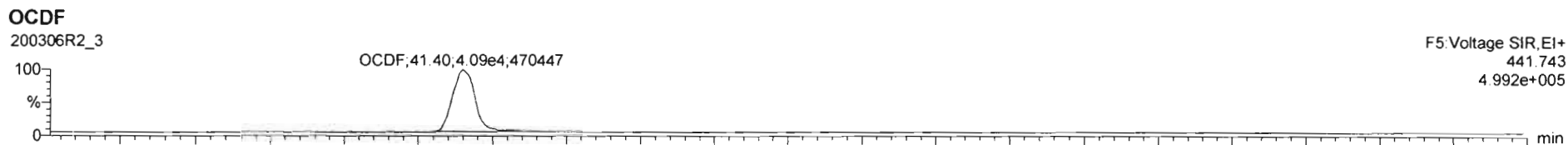
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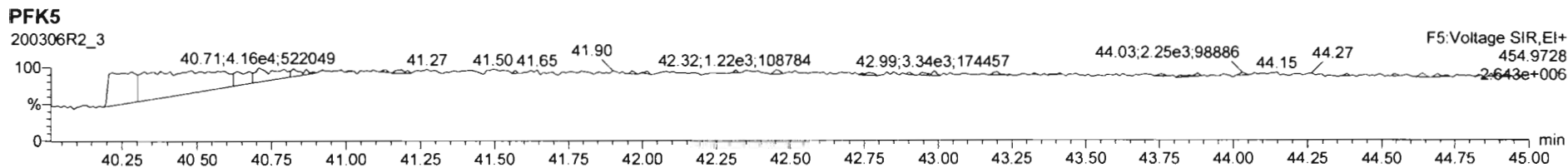
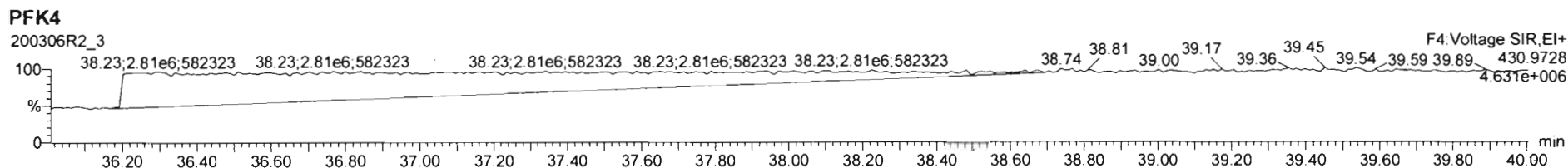
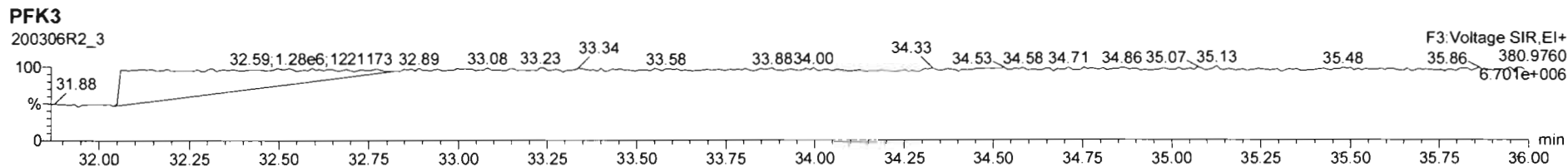
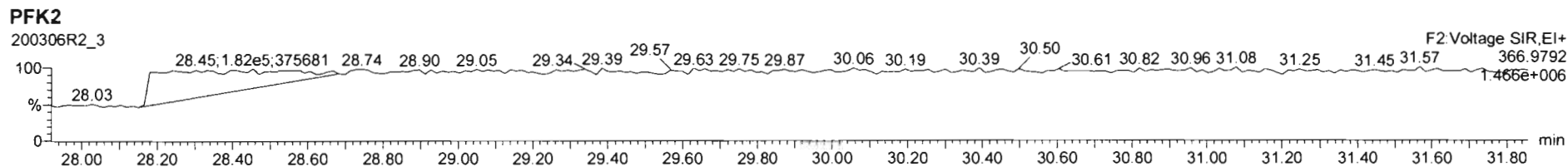
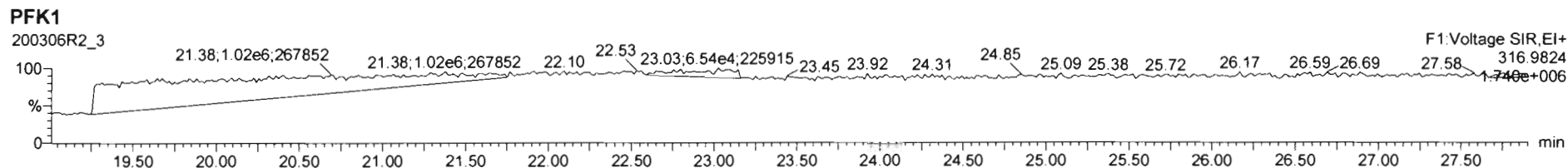


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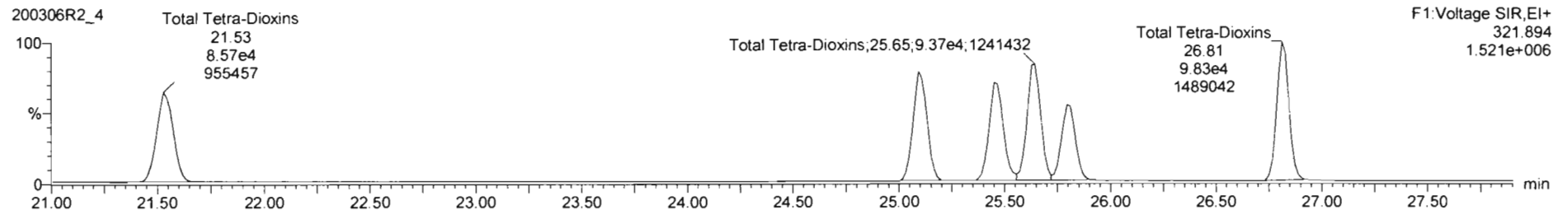
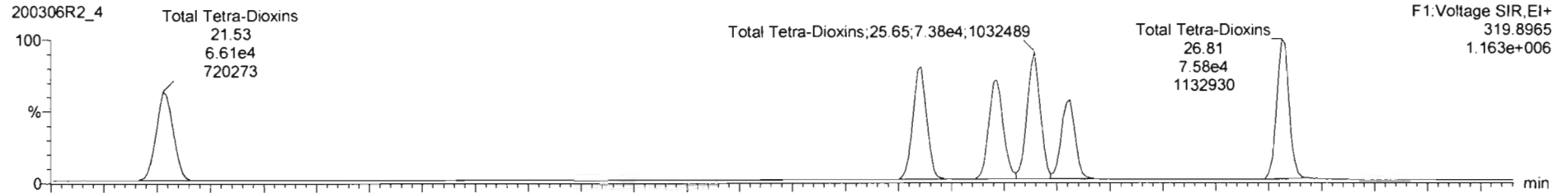


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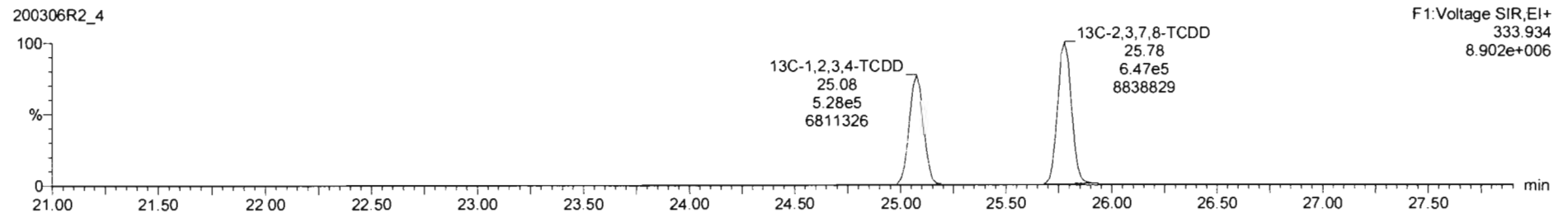
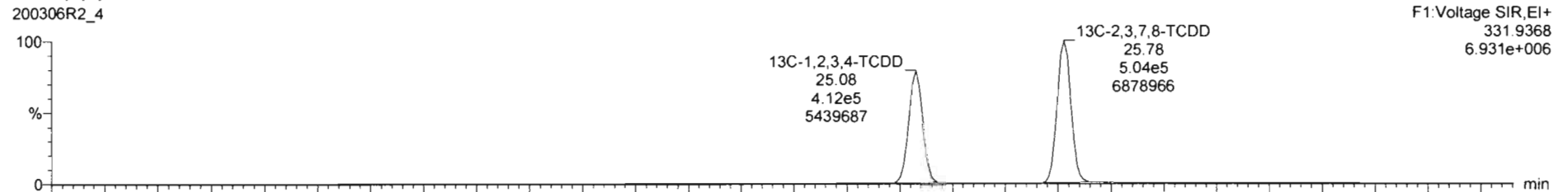
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2,3,7,8-TCDD



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

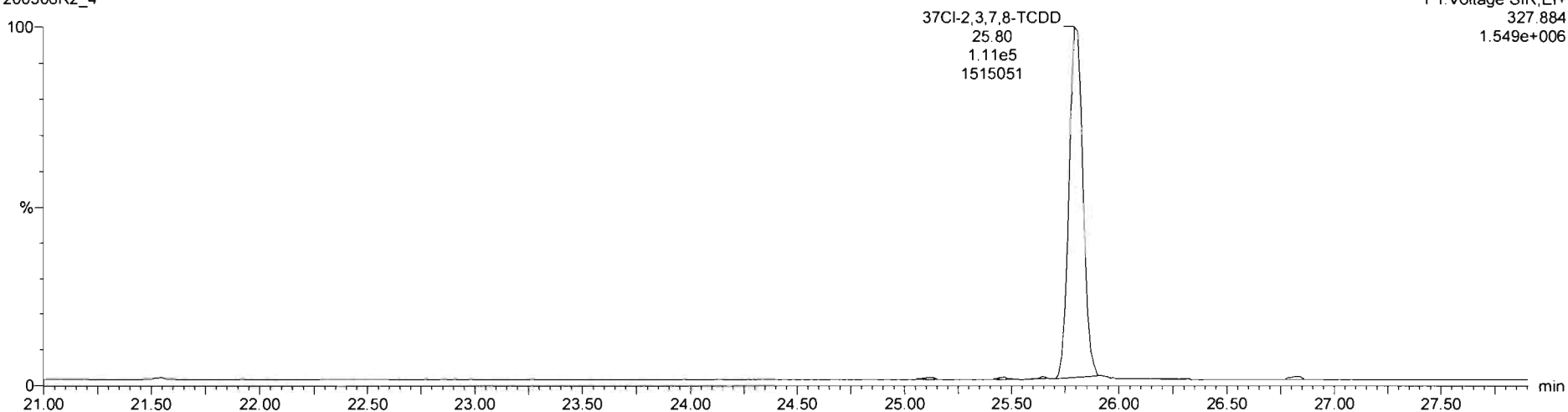


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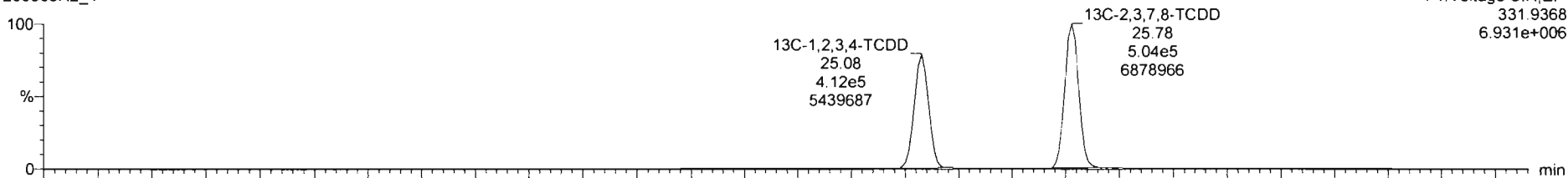
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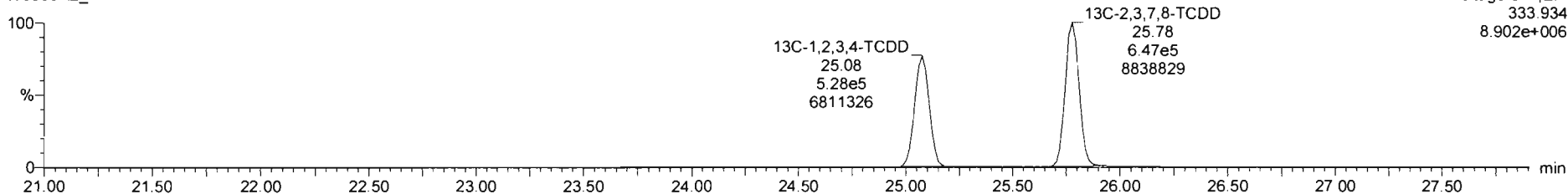
37Cl-2,3,7,8-TCDD
200306R2_4



13C-1,2,3,4-TCDD
200306R2_4



200306R2_4



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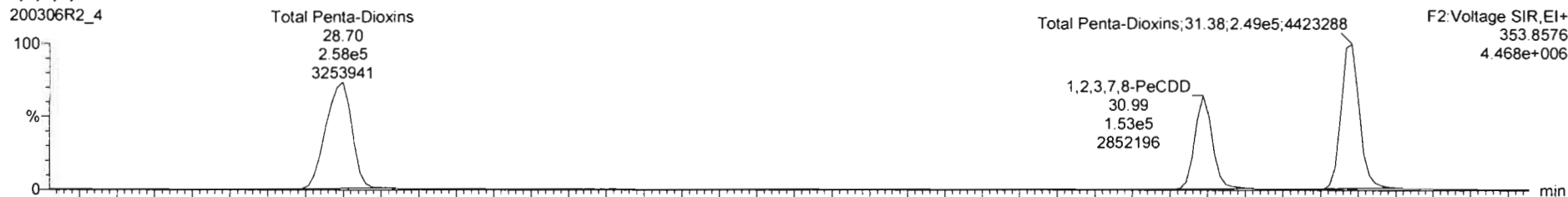
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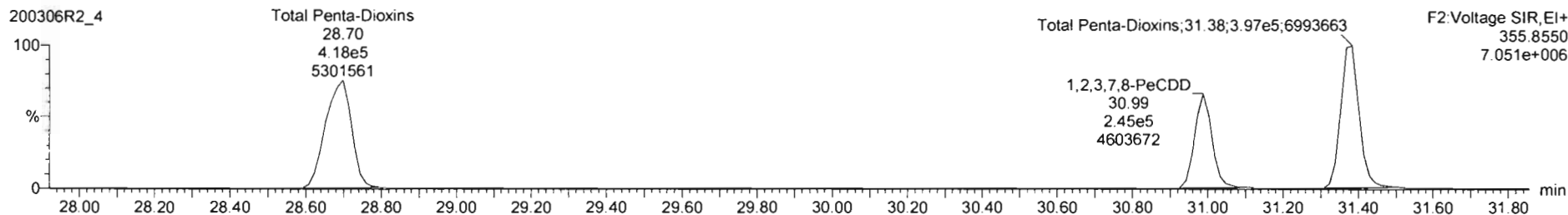
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1,2,3,7,8-PeCDD

200306R2_4

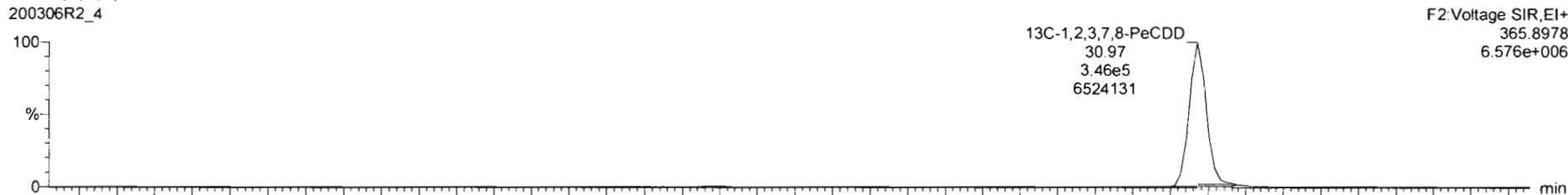


200306R2_4

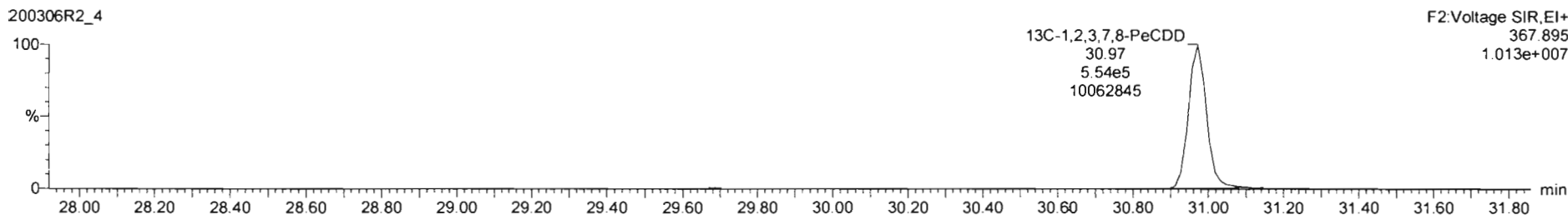


13C-1,2,3,7,8-PeCDD

200306R2_4



200306R2_4



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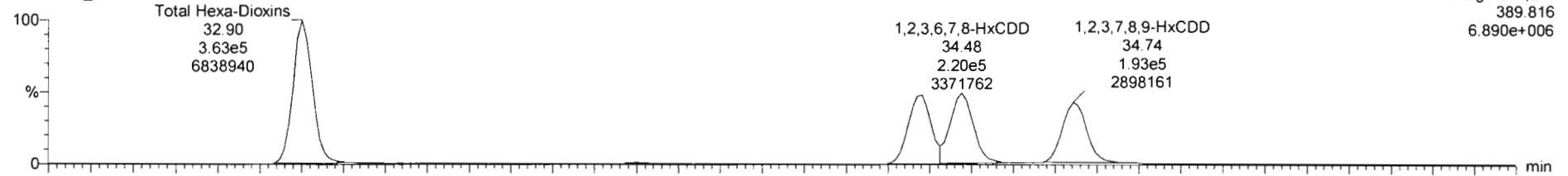
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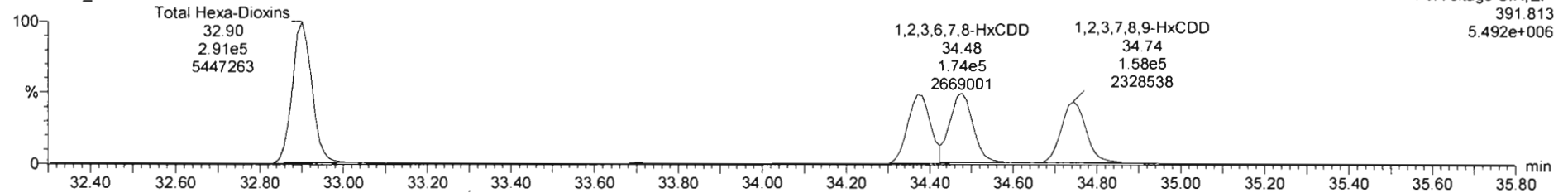
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1,2,3,4,7,8-HxCDD

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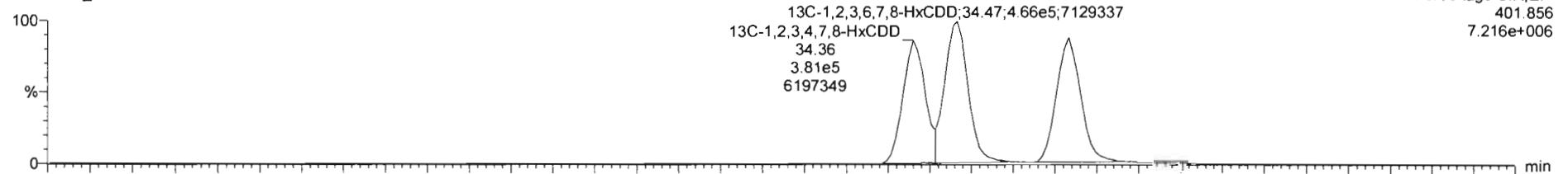


200306R2_4

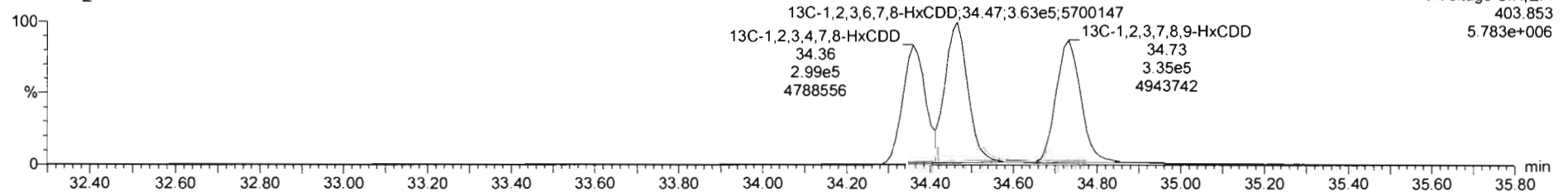


13C-1,2,3,4,7,8-HxCDD

200306R2_4



200306R2_4



Dataset: Untitled

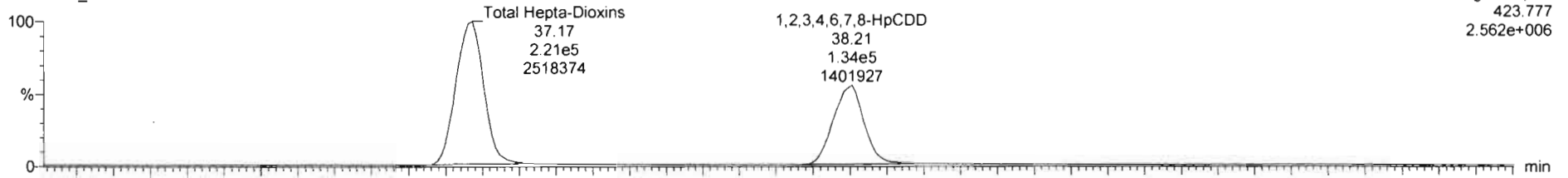
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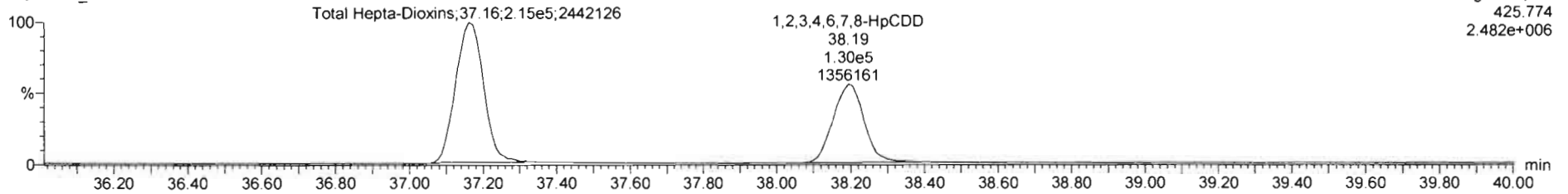
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1,2,3,4,6,7,8-HpCDD

200306R2_4

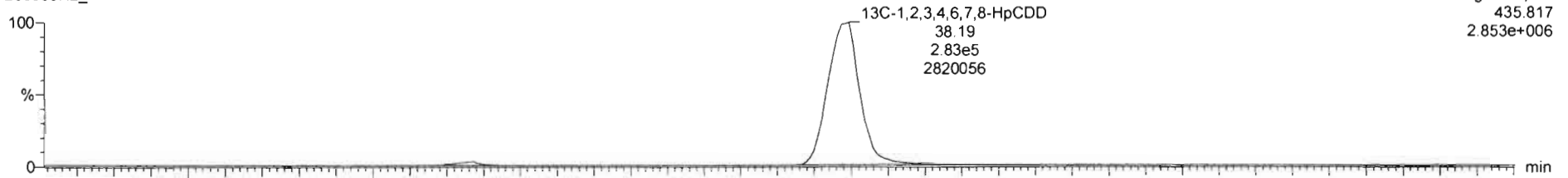


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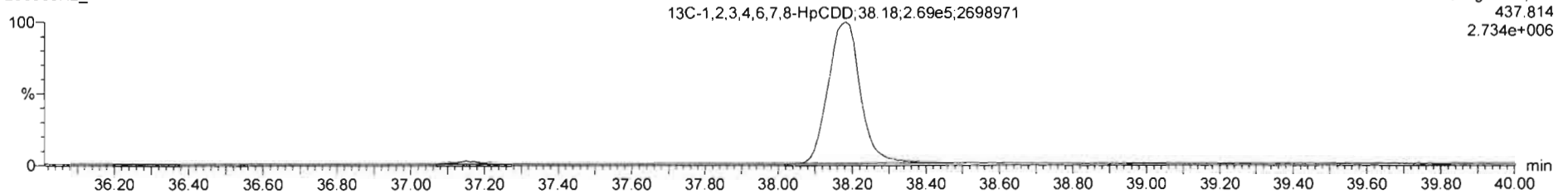


13C-1,2,3,4,6,7,8-HpCDD

200306R2_4



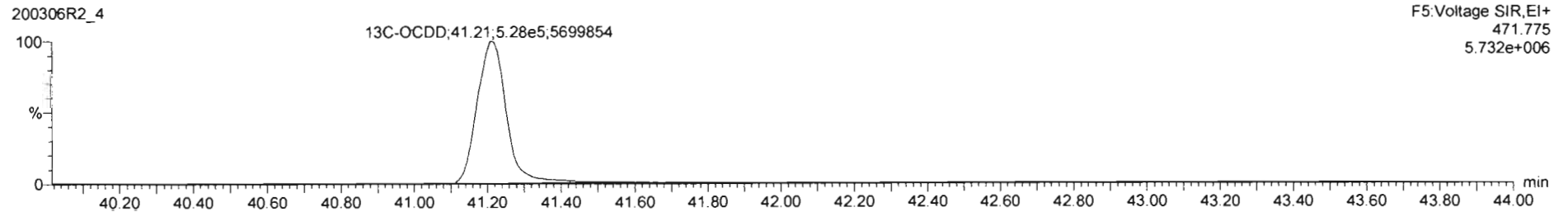
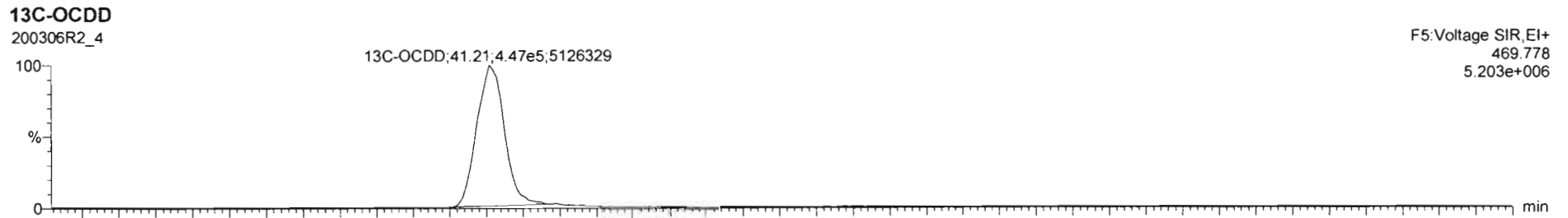
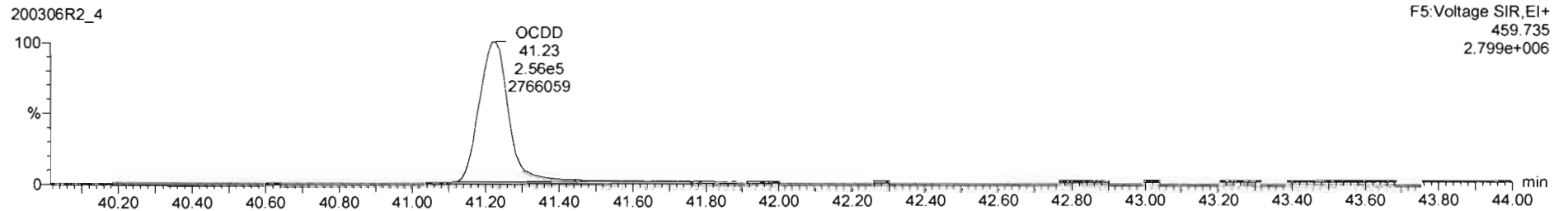
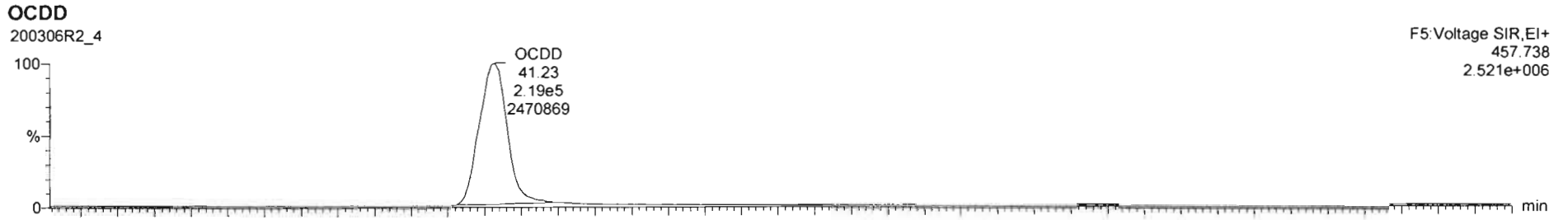
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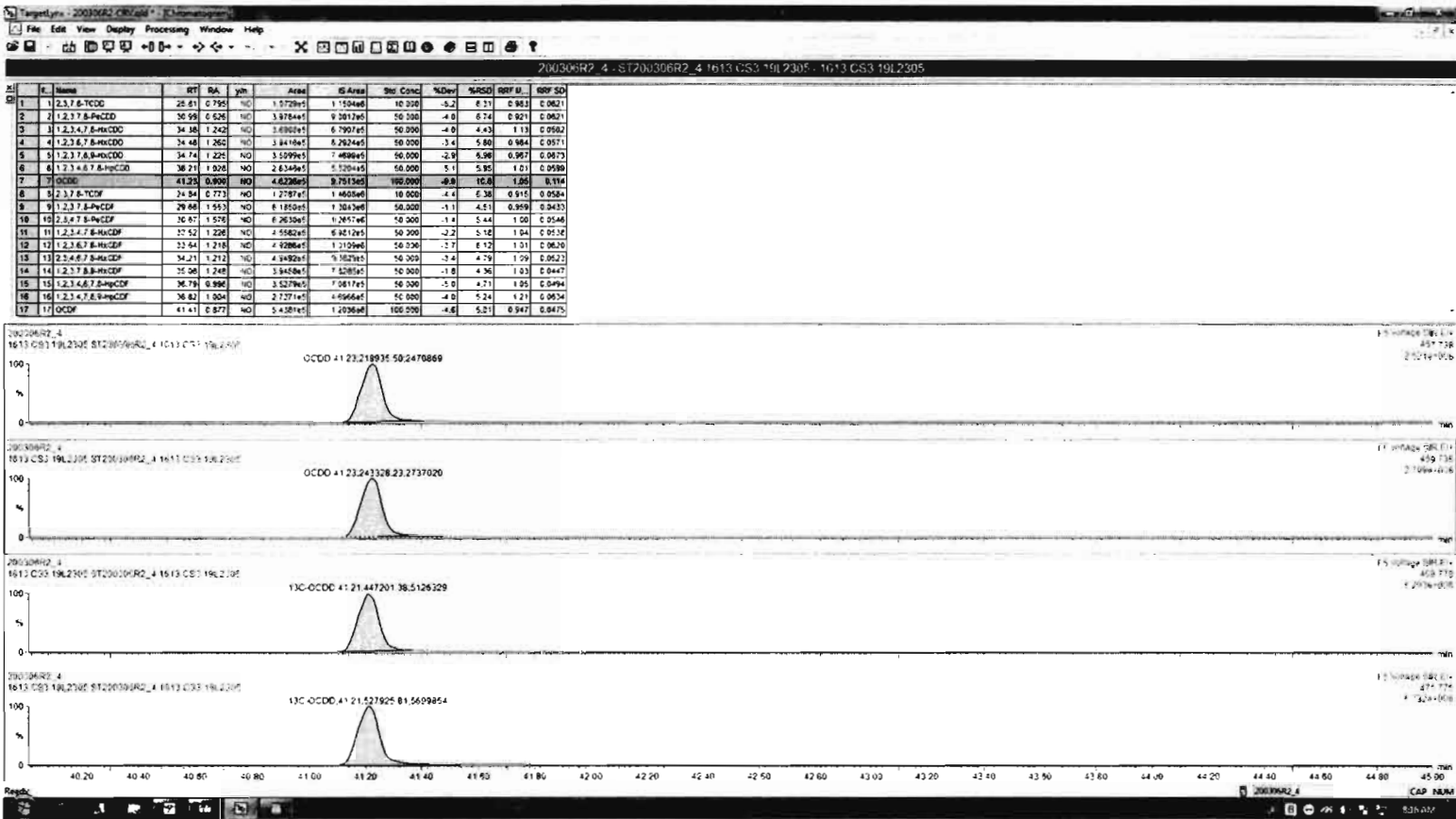


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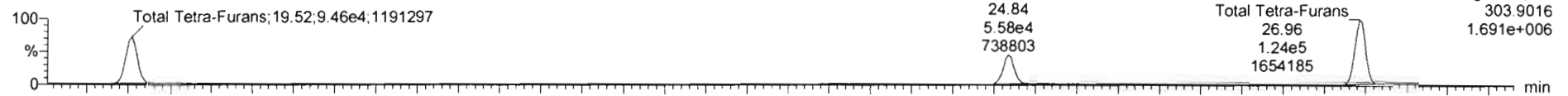
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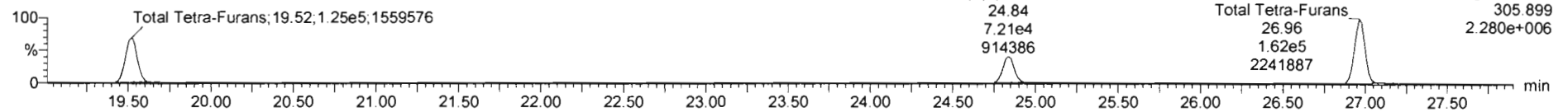
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2,3,7,8-TCDF

200306R2_4

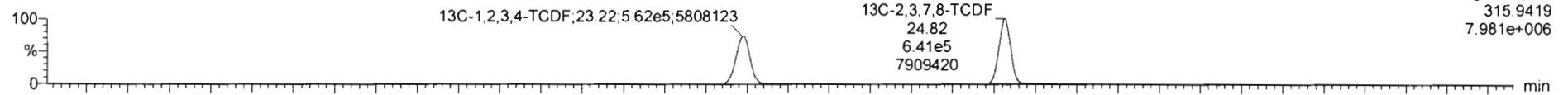


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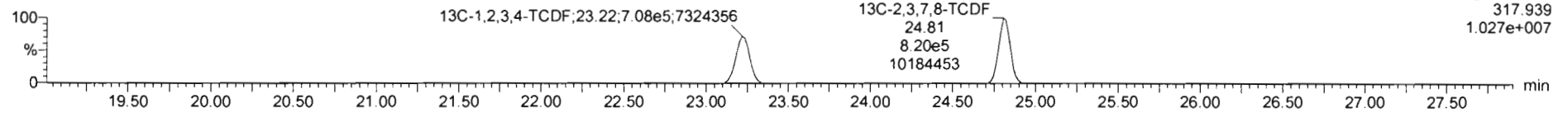


13C-2,3,7,8-TCDF

200306R2_4

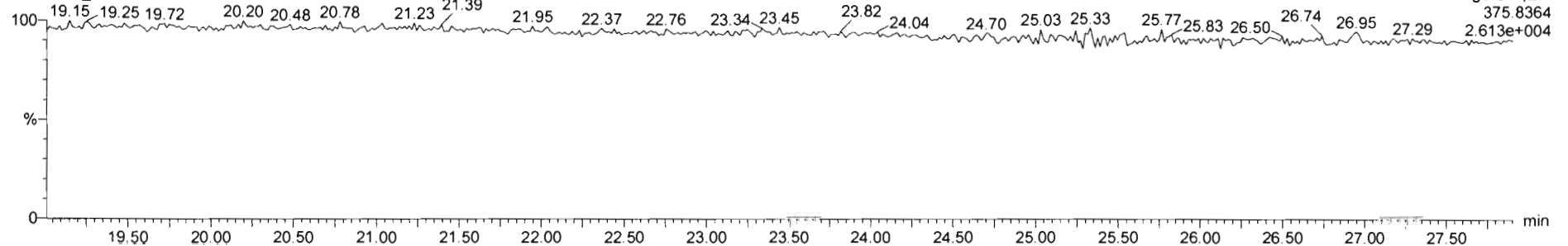


200306R2_4



DPE1

200306R2_4



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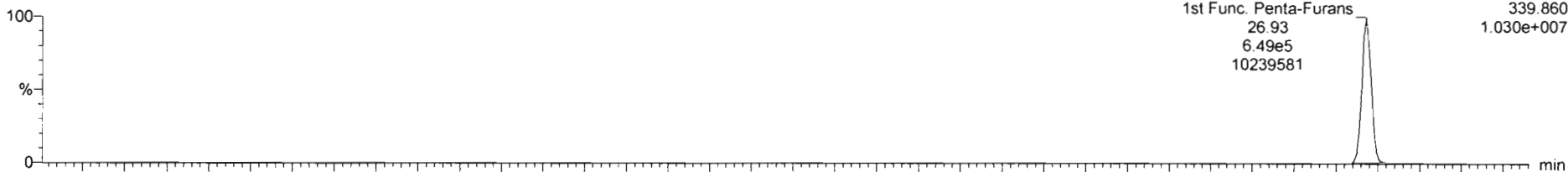
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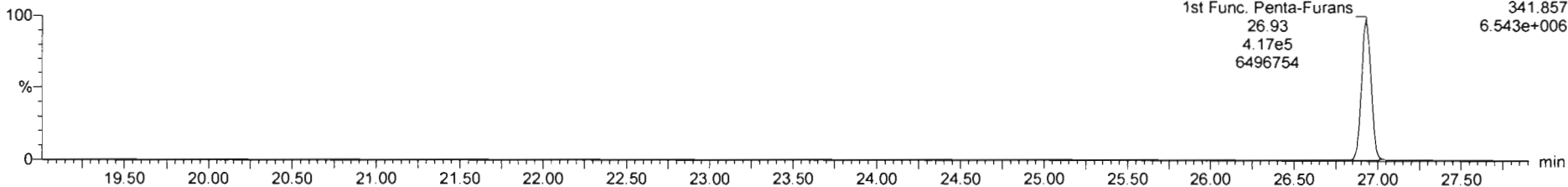
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200306R2_4

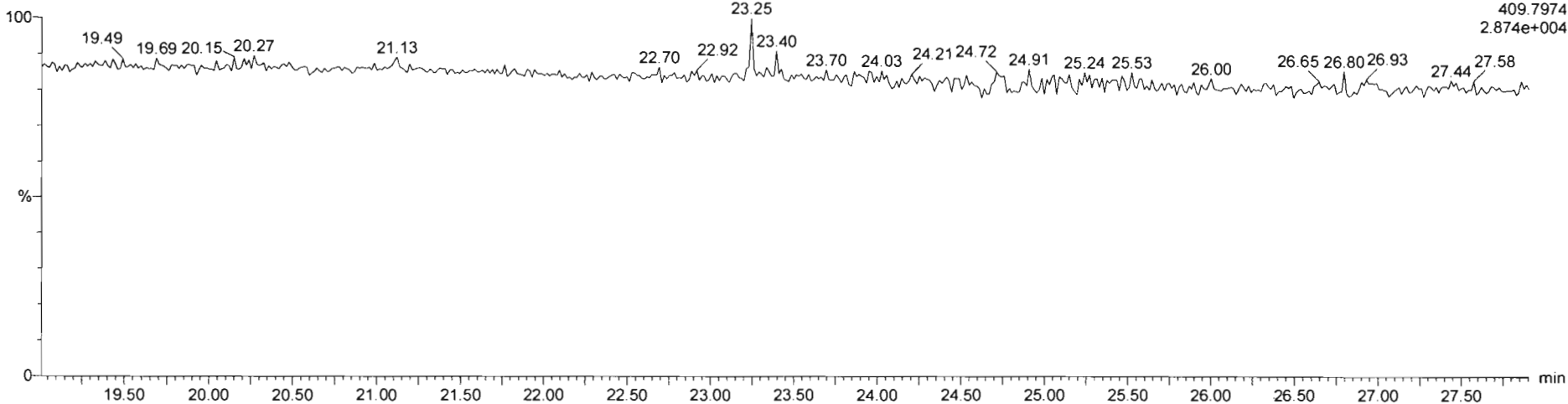


200306R2_4



DPE6

200306R2_4



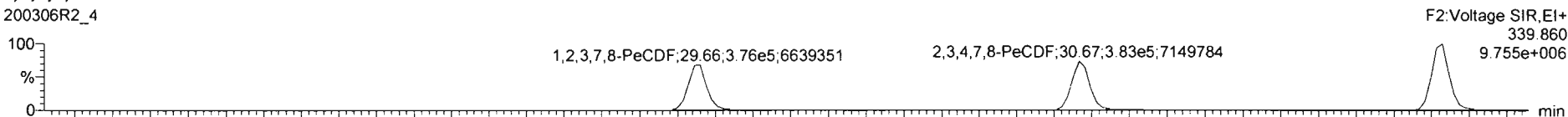
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

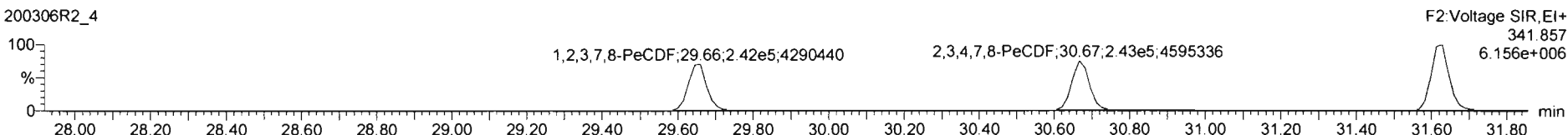
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1,2,3,7,8-PeCDF

200306R2_4

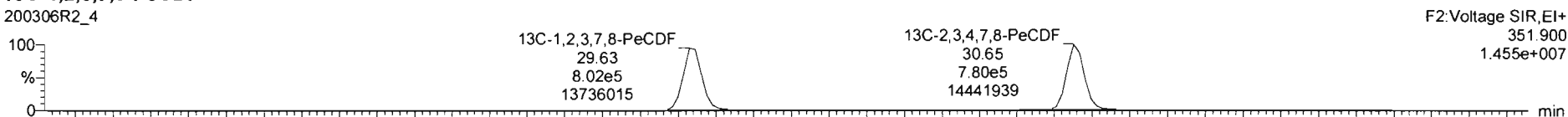


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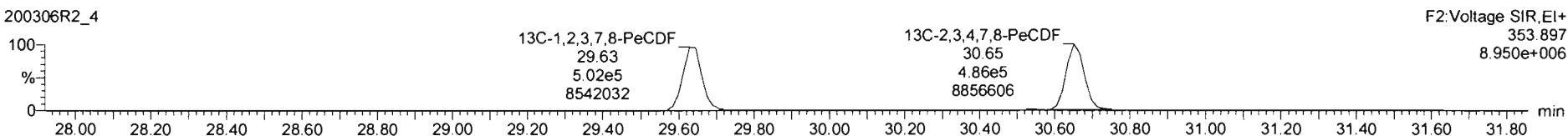


13C-1,2,3,7,8-PeCDF

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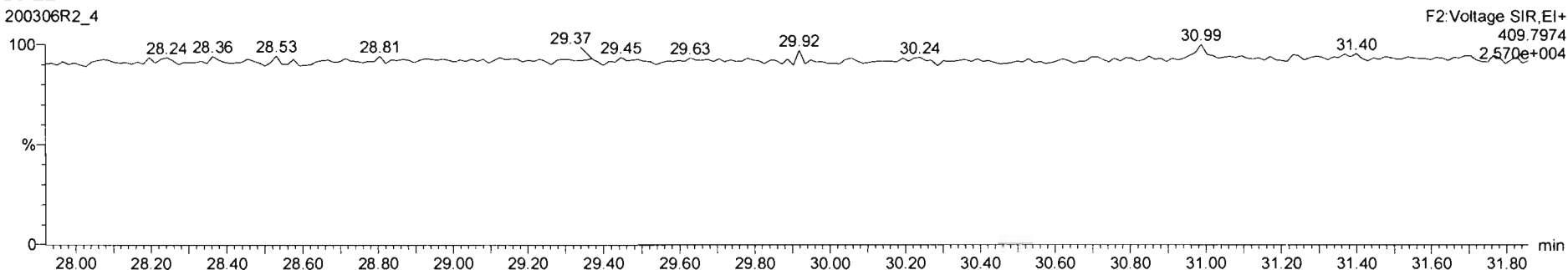


200306R2_4



DPE2

200306R2_4



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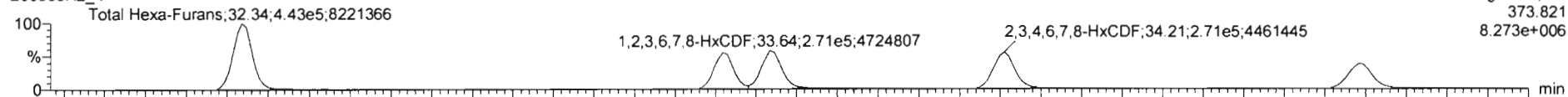
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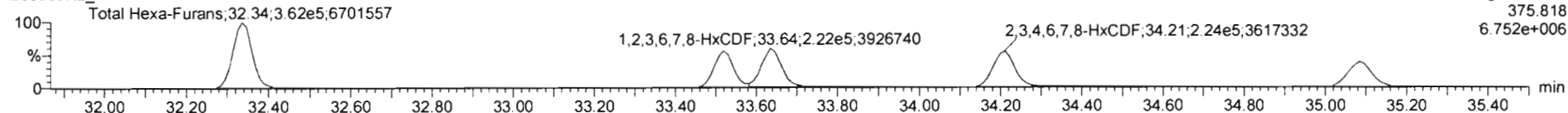
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1,2,3,4,7,8-HxCDF

200306R2_4

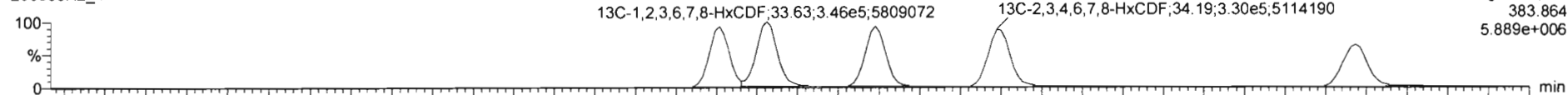


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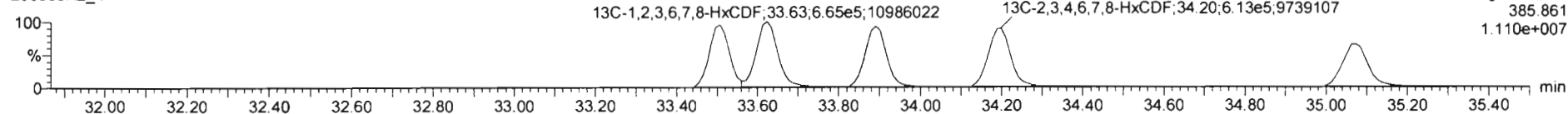


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200306R2_4

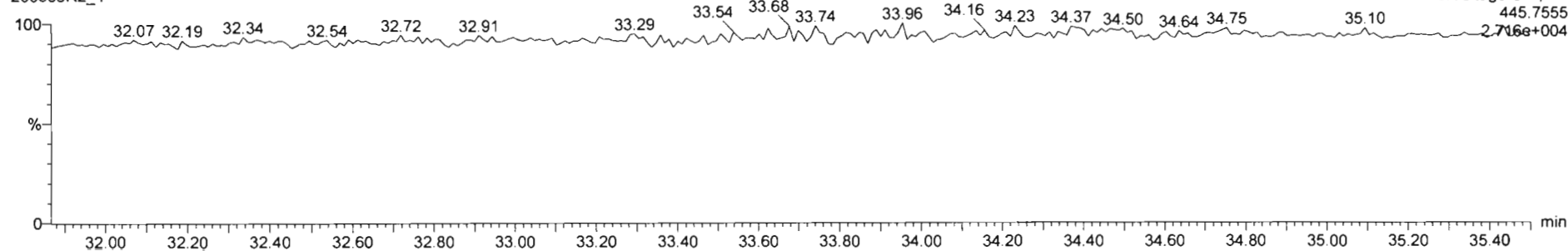


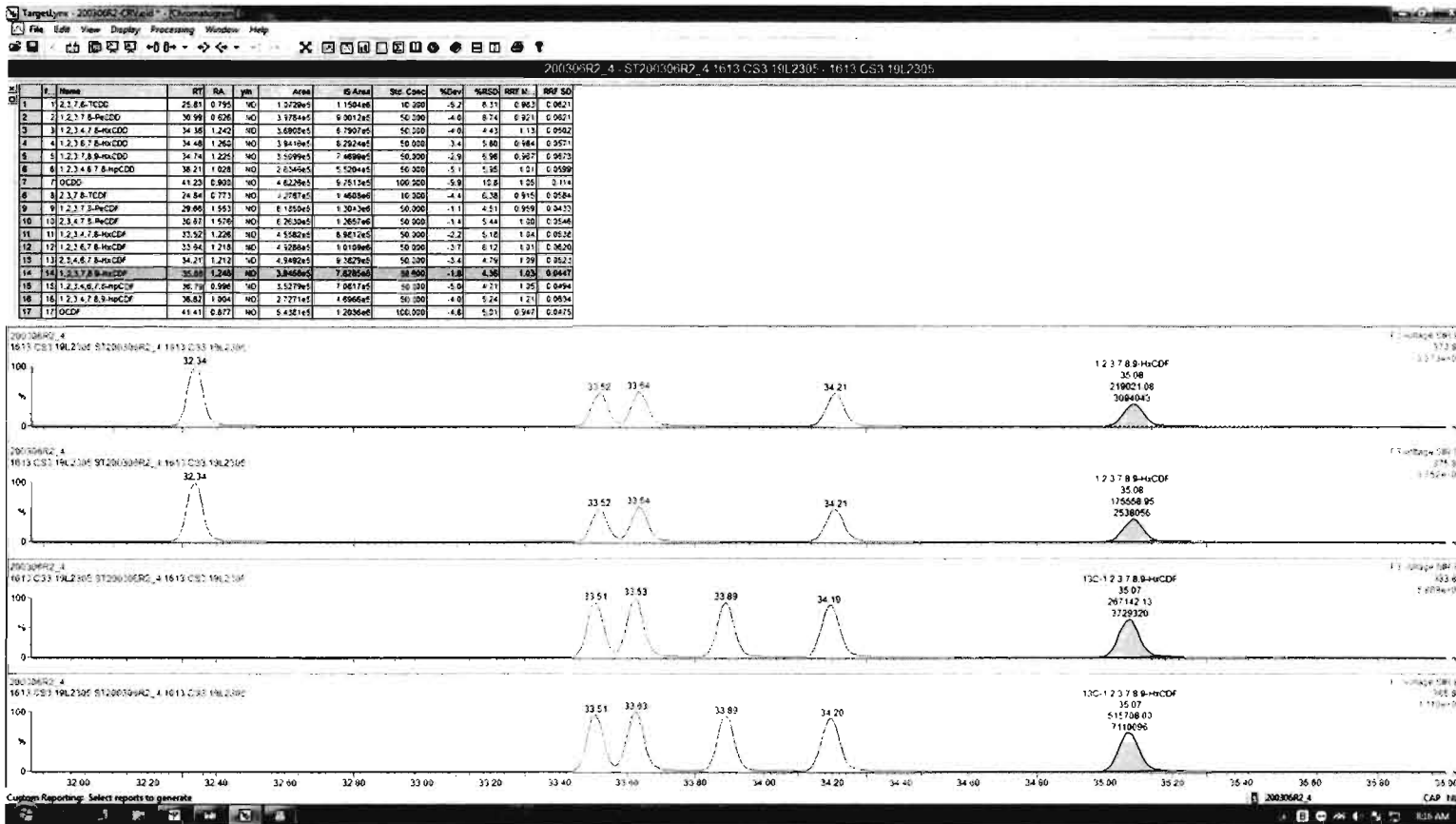
200306R2_4



DPE3

200306R2_4





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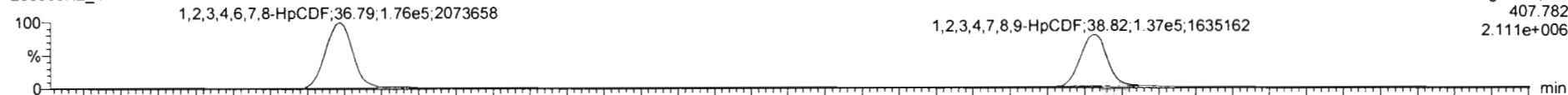
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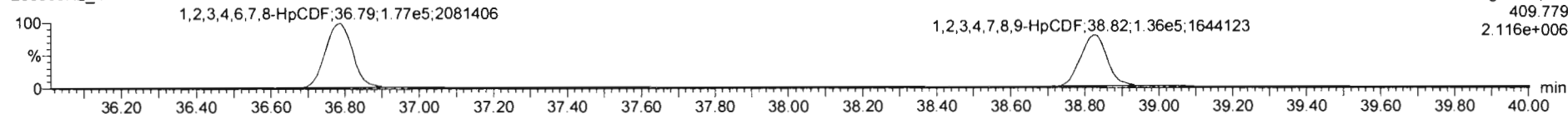
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1,2,3,4,6,7,8-HpCDF

200306R2_4



200306R2_4

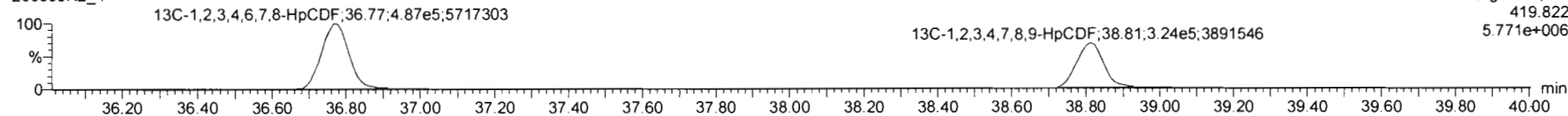


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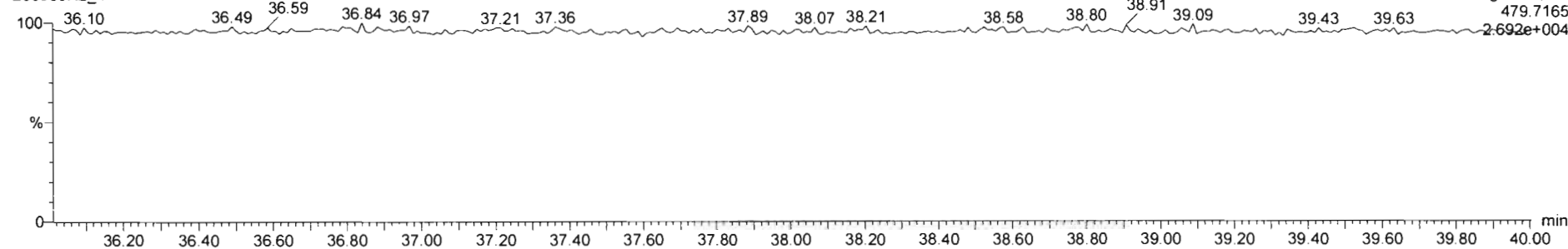


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DPE4

200306R2_4

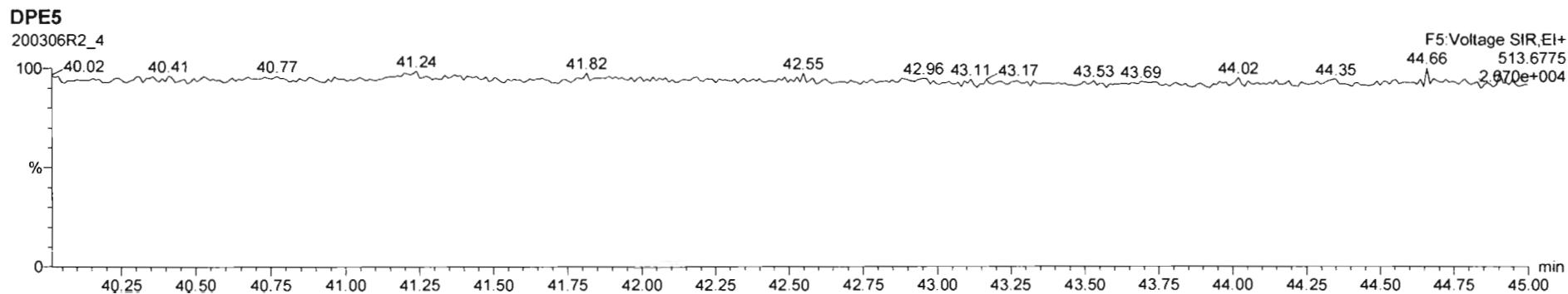
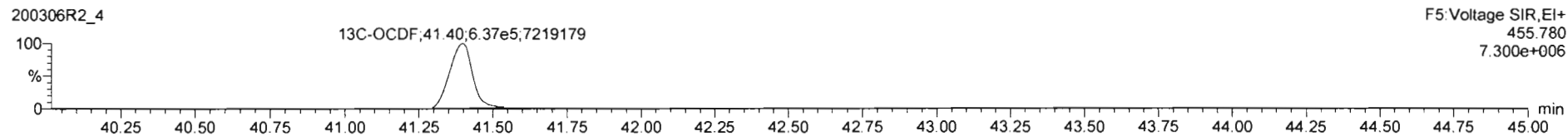
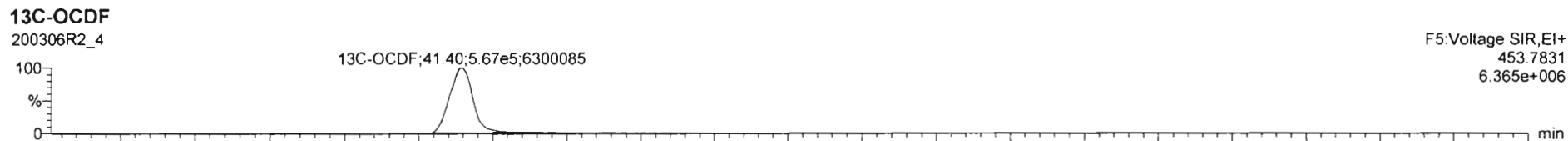
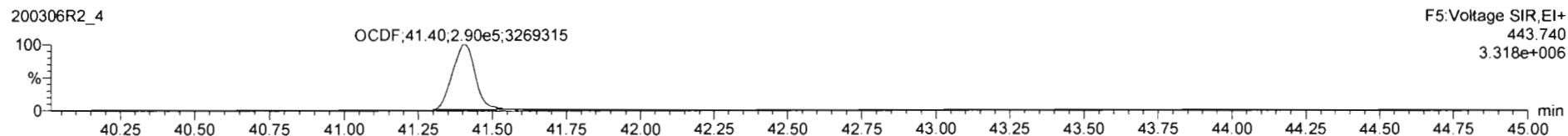
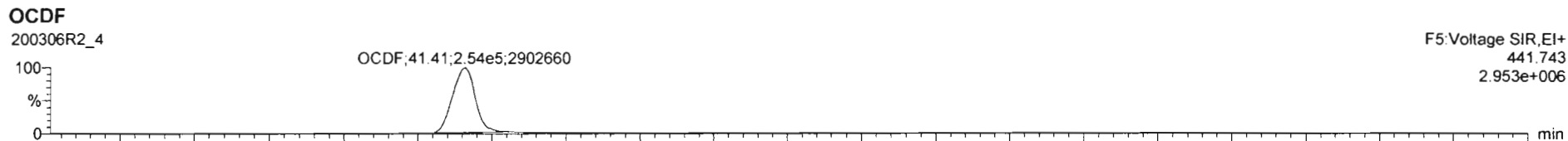


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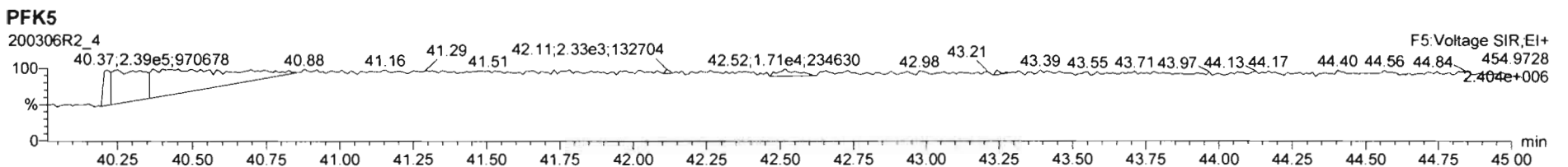
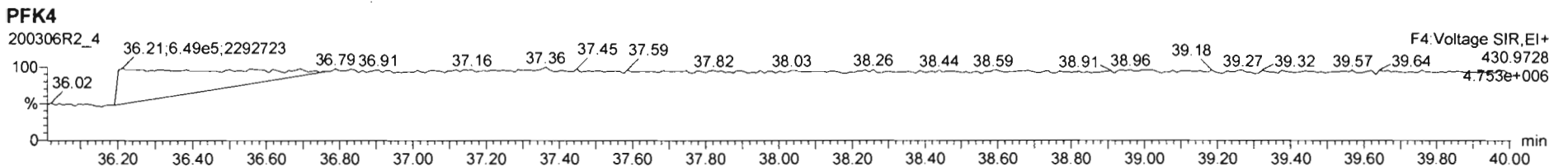
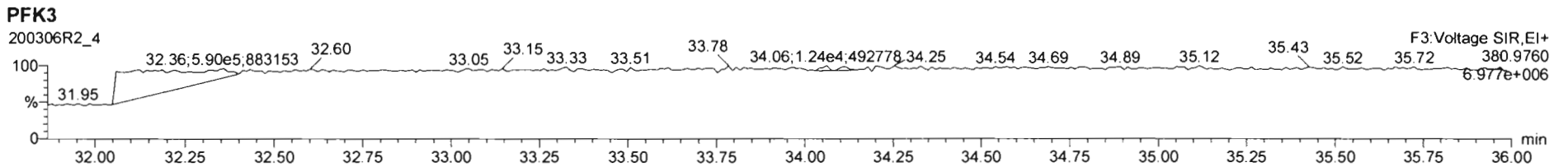
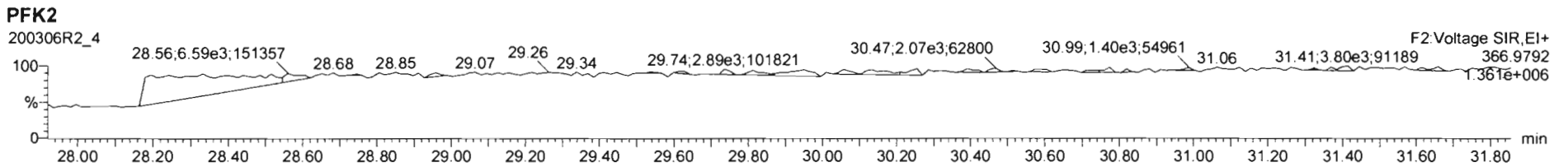
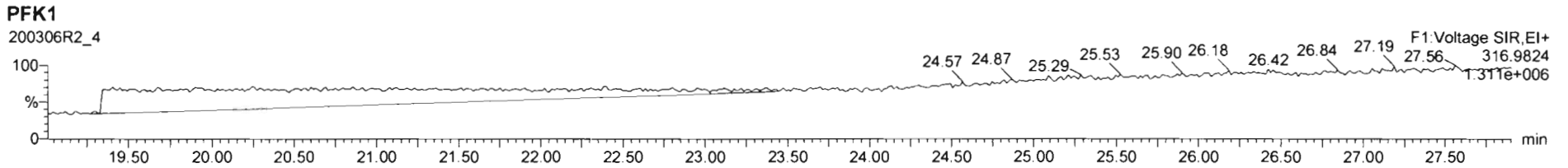
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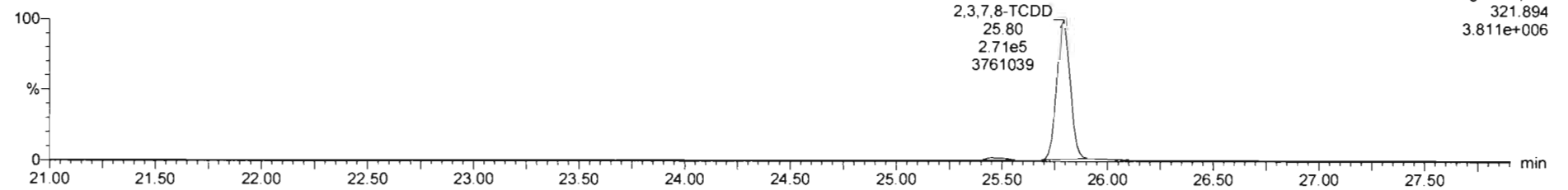
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2,3,7,8-TCDD

200306R2_5

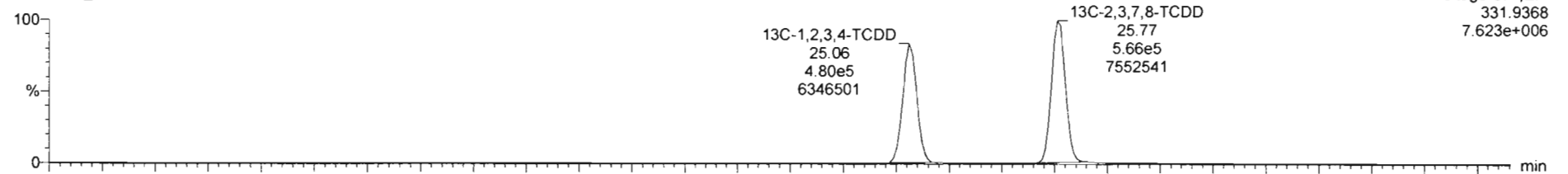


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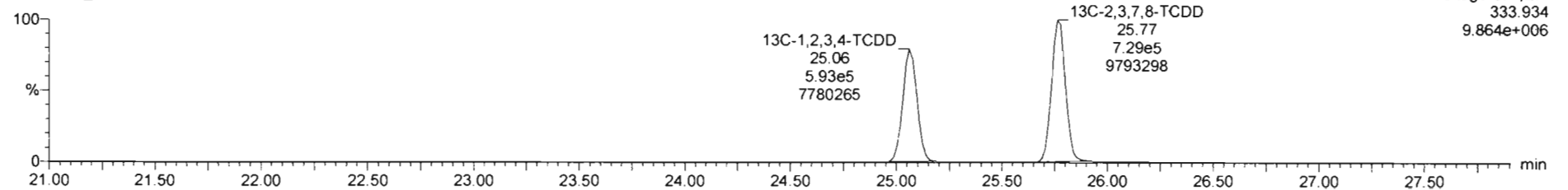


13C-2,3,7,8-TCDD

200306R2_5



200306R2_5



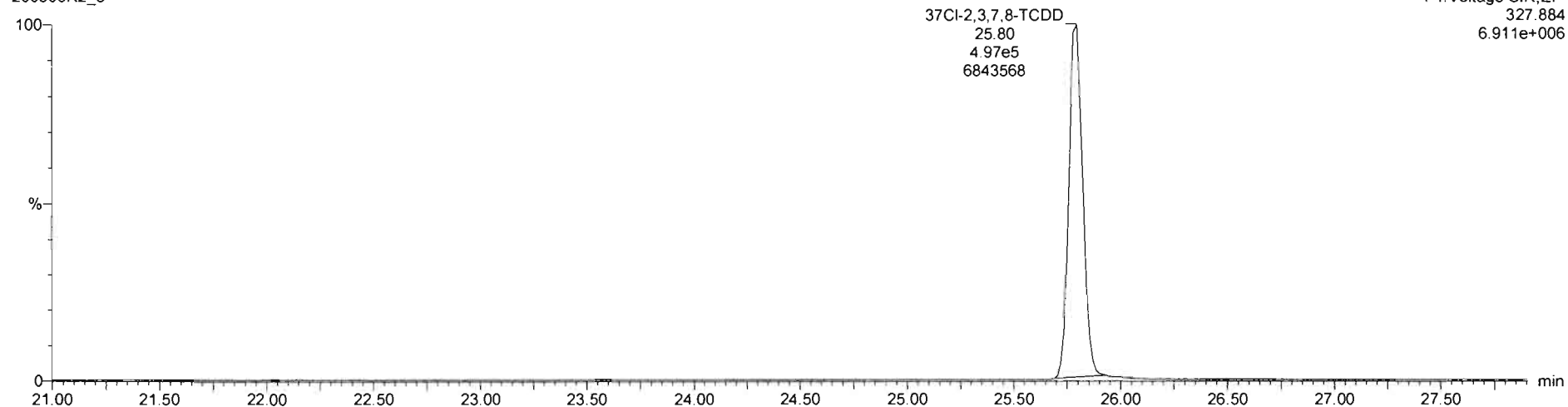
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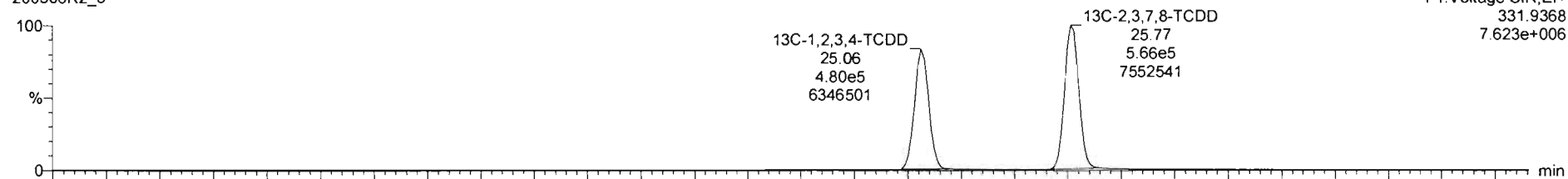
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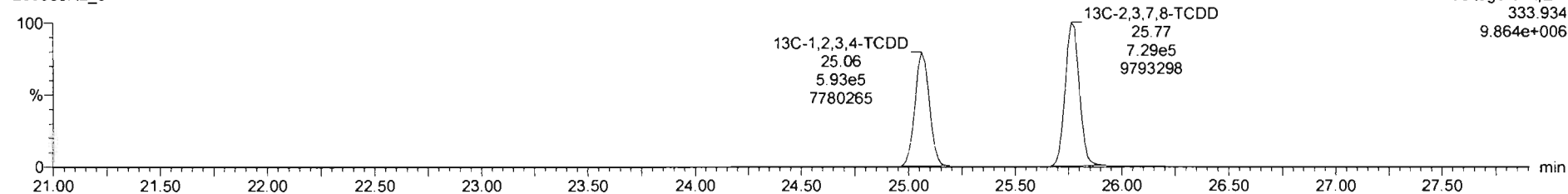


13C-1,2,3,4-TCDD

200306R2_5



200306R2_5



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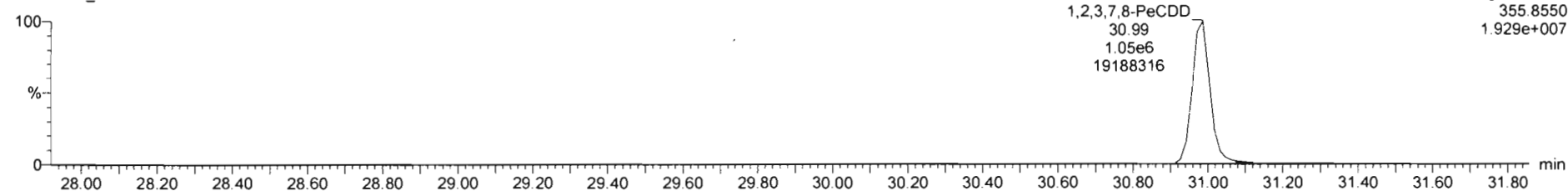
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1,2,3,7,8-PeCDD

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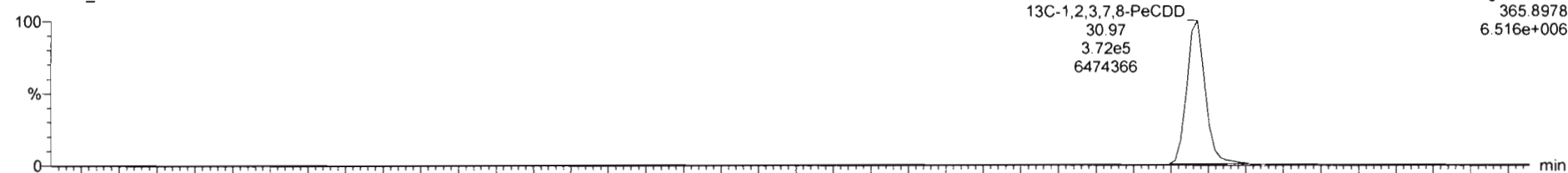


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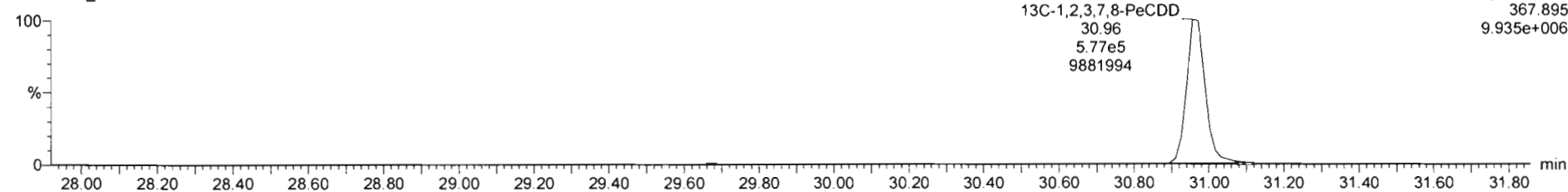


13C-1,2,3,7,8-PeCDD

200306R2_5



200306R2_5



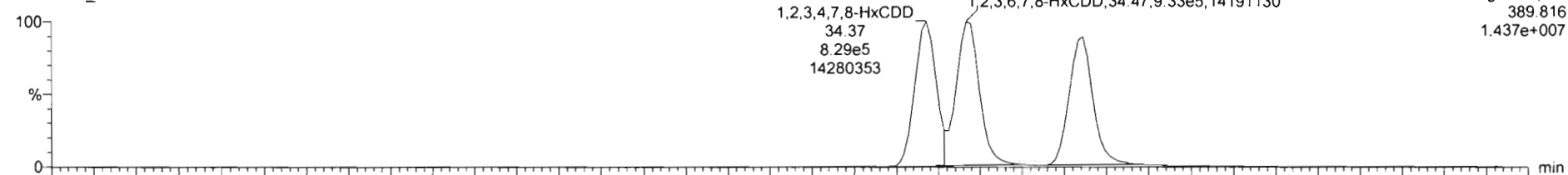
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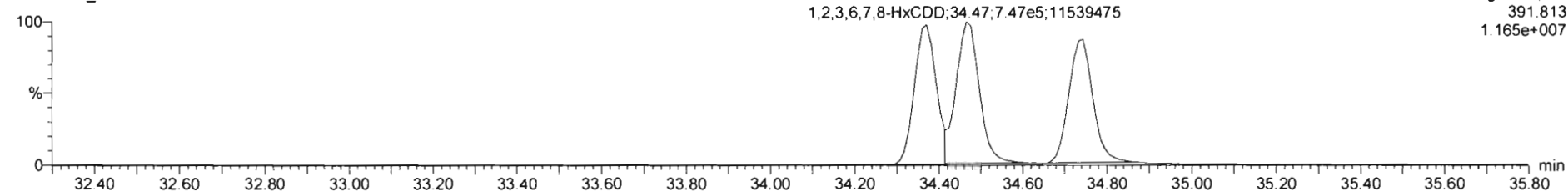
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1,2,3,4,7,8-HxCDD

200306R2_5

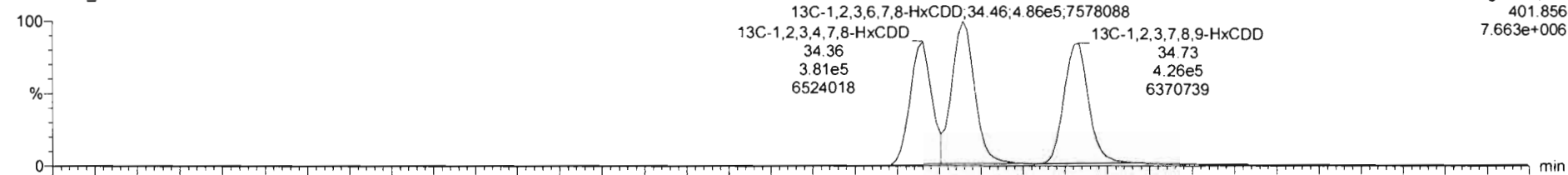


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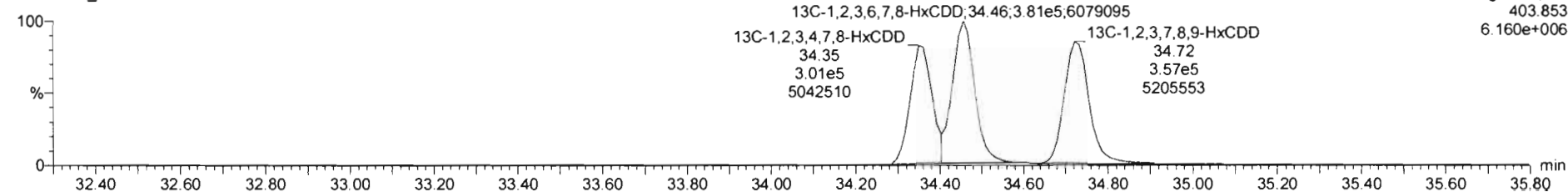


13C-1,2,3,4,7,8-HxCDD

200306R2_5



200306R2_5



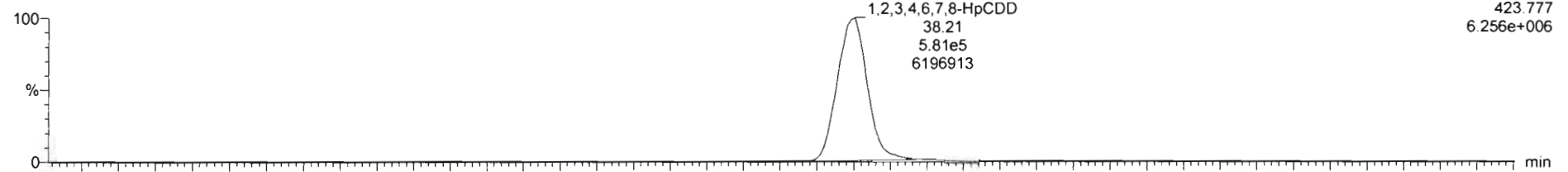
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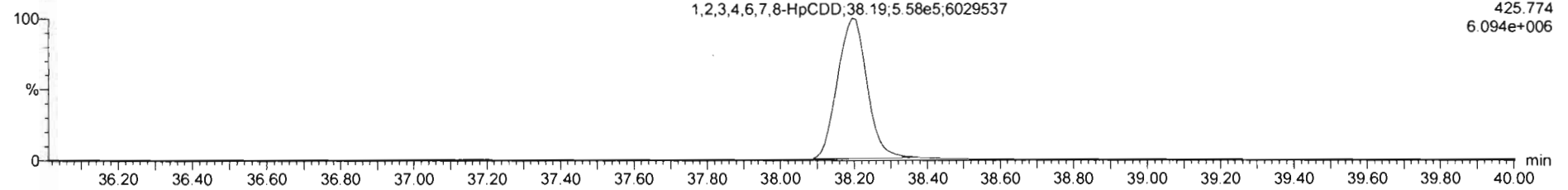
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1,2,3,4,6,7,8-HpCDD

200306R2_5

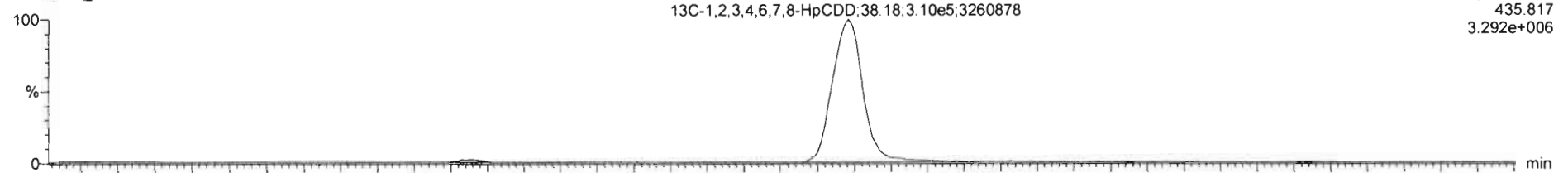


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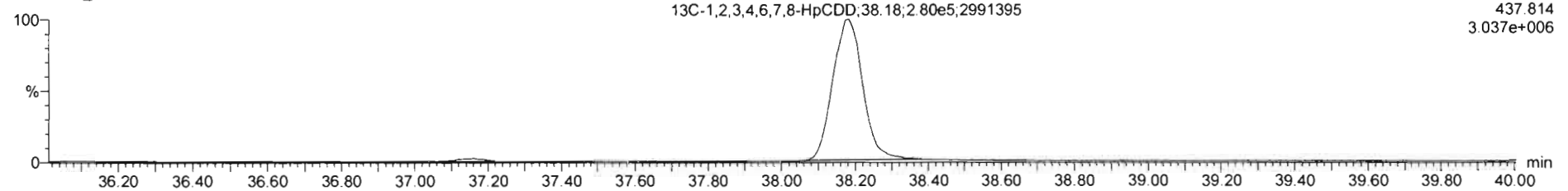


13C-1,2,3,4,6,7,8-HpCDD

200306R2_5



200306R2_5



Dataset: Untitled

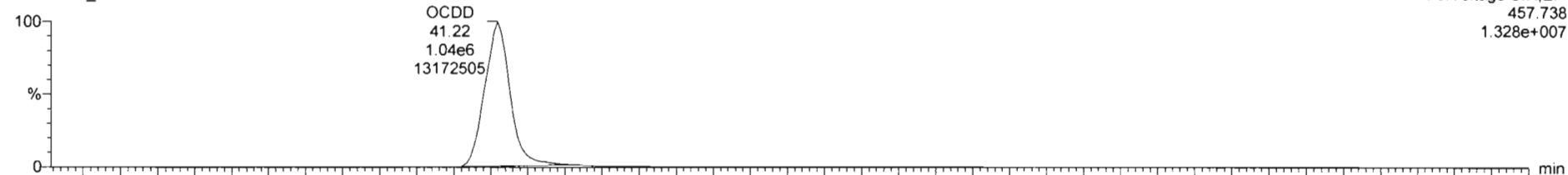
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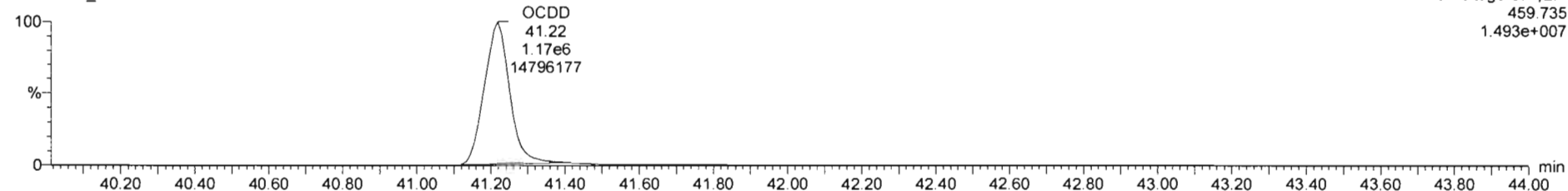
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OCDD

200306R2_5

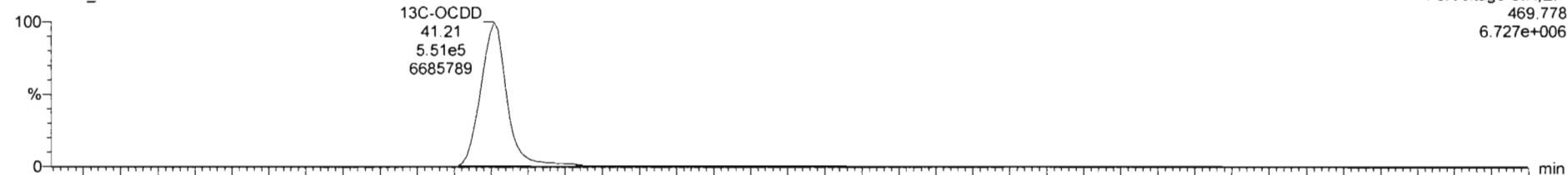


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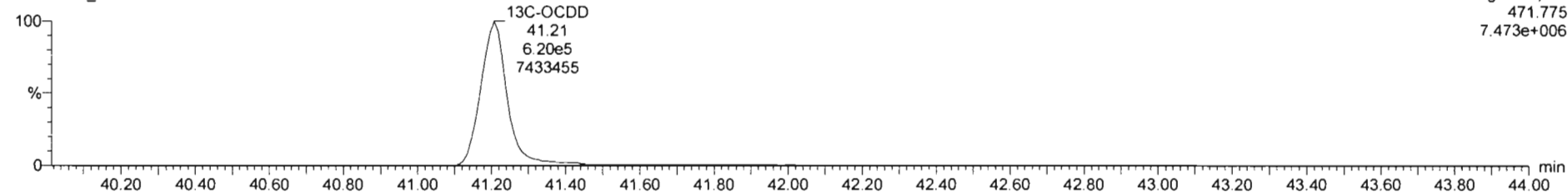


13C-OCDD

200306R2_5



200306R2_5



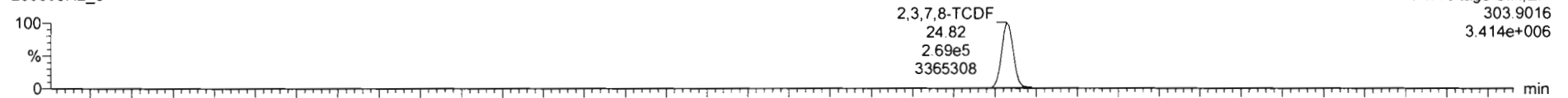
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

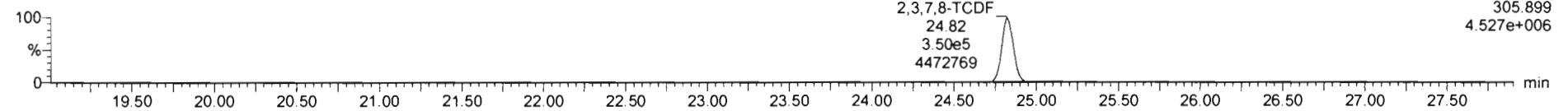
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2,3,7,8-TCDF

200306R2_5

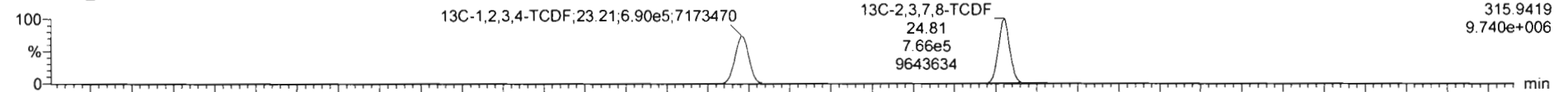


200306R2_5

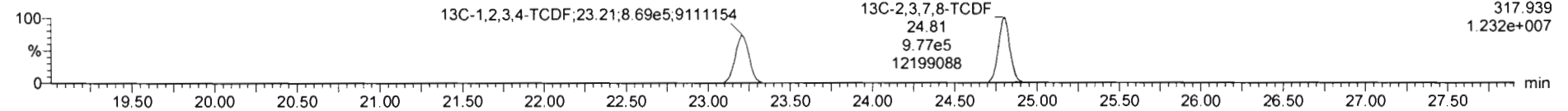


13C-2,3,7,8-TCDF

200306R2_5

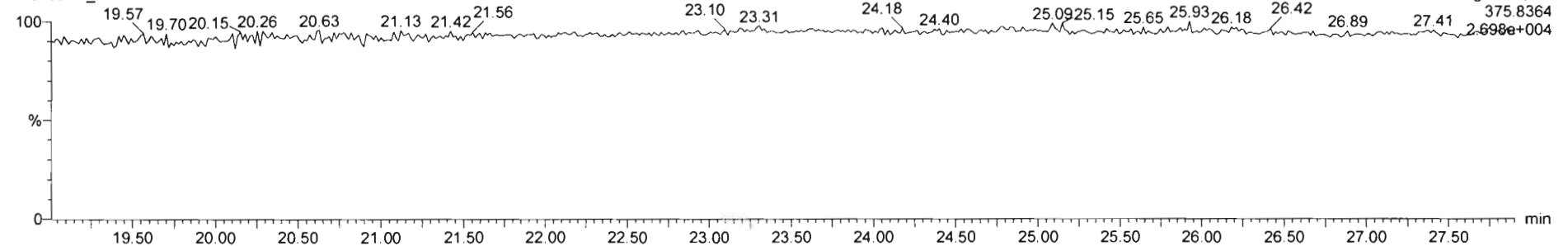


200306R2_5



DPE1

200306R2_5

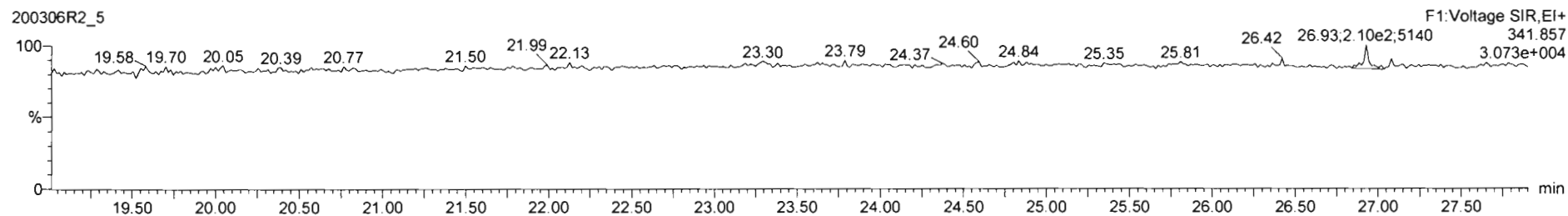
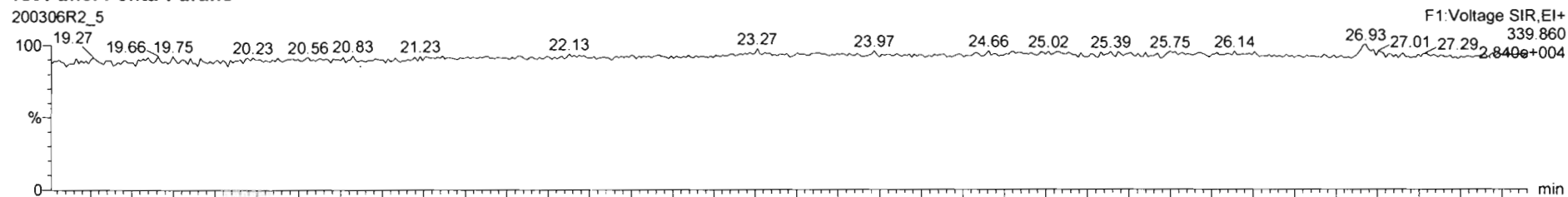


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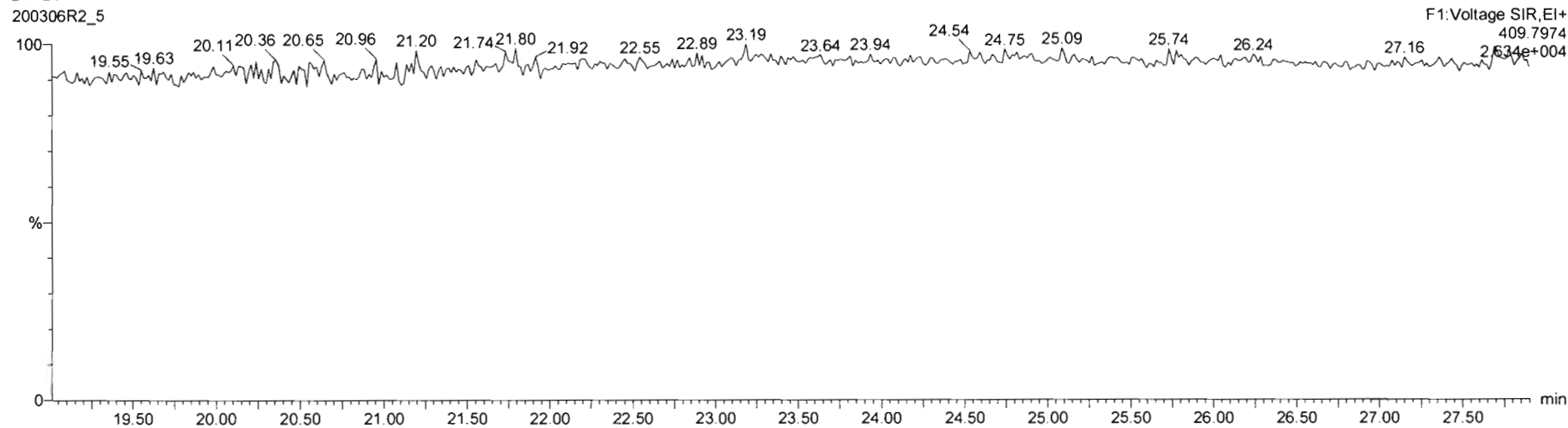
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_5, Date: 06-Mar-2020, Time: 16:19:37, ID: ST200306R2_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

1st Func. Penta-Furans



DPE6



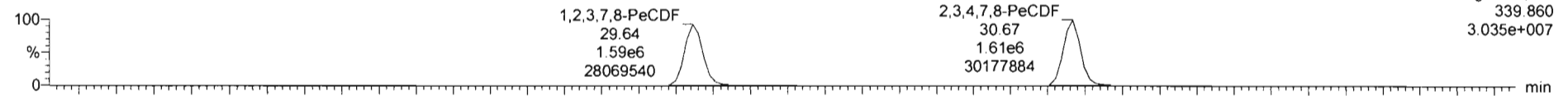
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

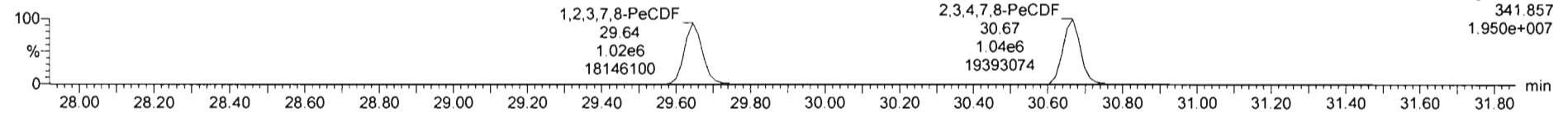
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1,2,3,7,8-PeCDF

200306R2_5

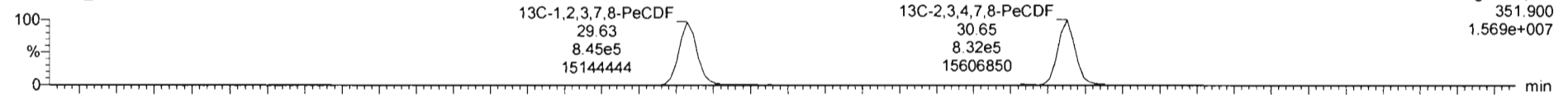


200306R2_5

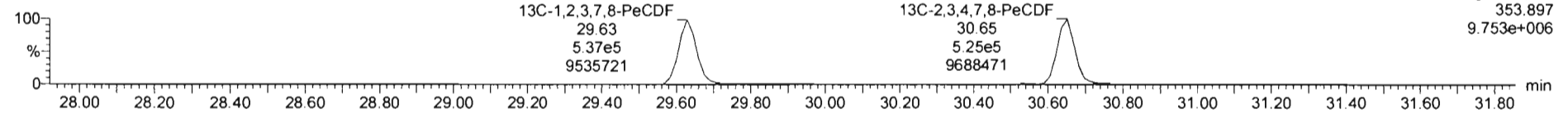


13C-1,2,3,7,8-PeCDF

200306R2_5

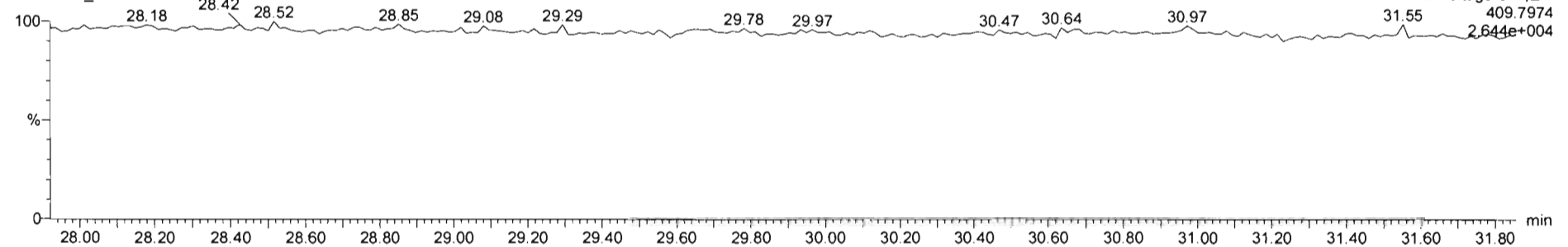


200306R2_5



DPE2

200306R2_5



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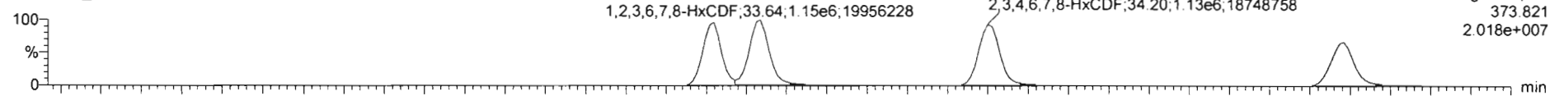
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

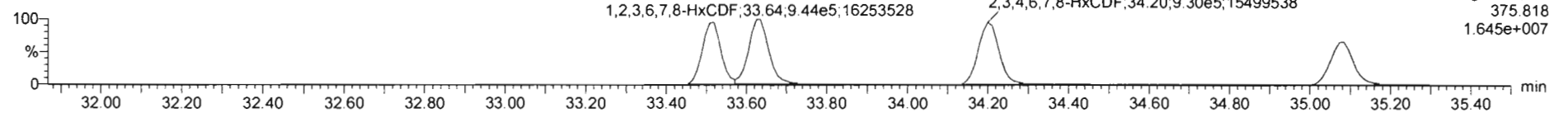
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1,2,3,4,7,8-HxCDF

200306R2_5

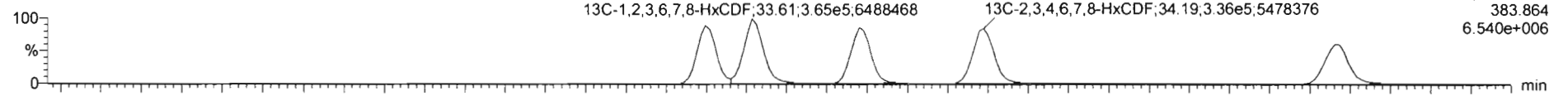


200306R2_5

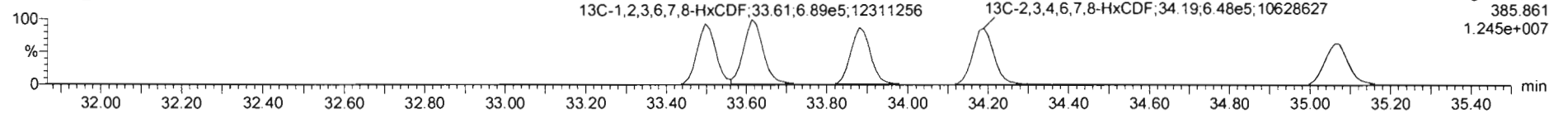


13C-1,2,3,4,7,8-HxCDF

200306R2_5

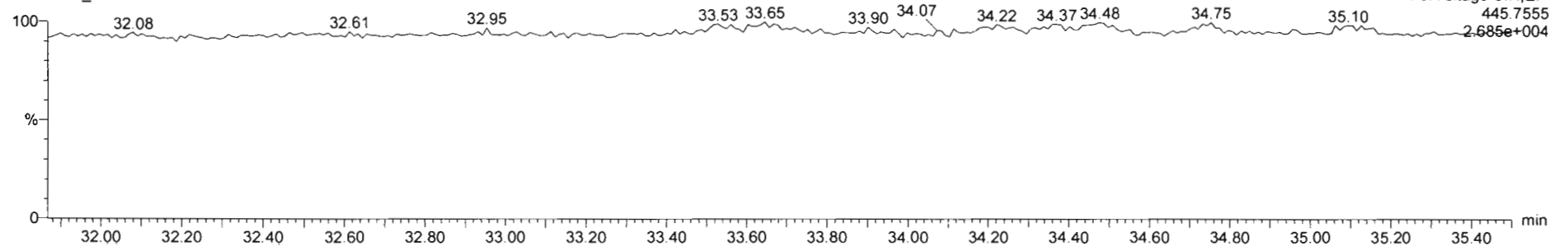


200306R2_5



DPE3

200306R2_5



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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

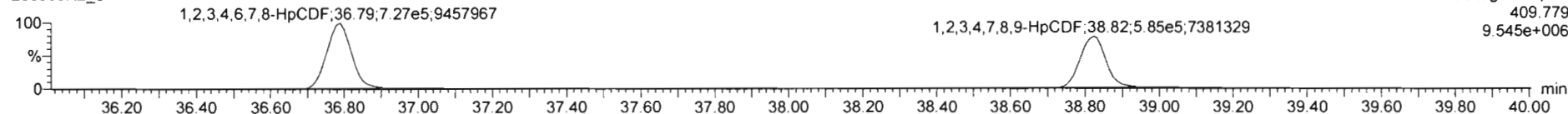
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1,2,3,4,6,7,8-HpCDF

200306R2_5

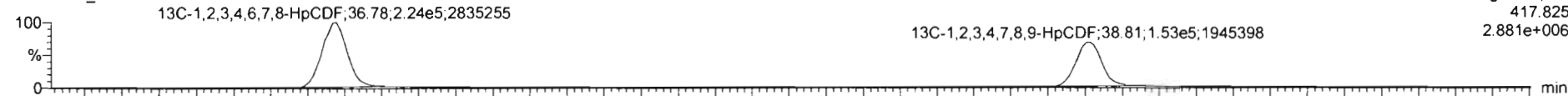


200306R2_5

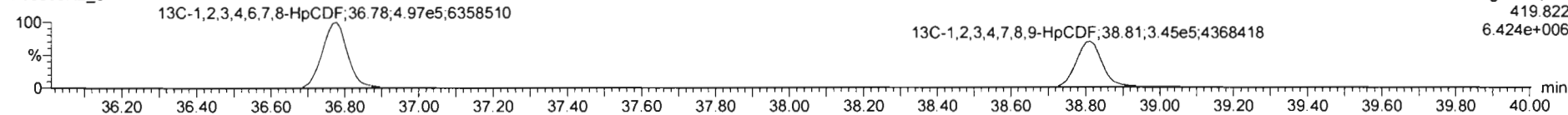


13C-1,2,3,4,6,7,8-HpCDF

200306R2_5

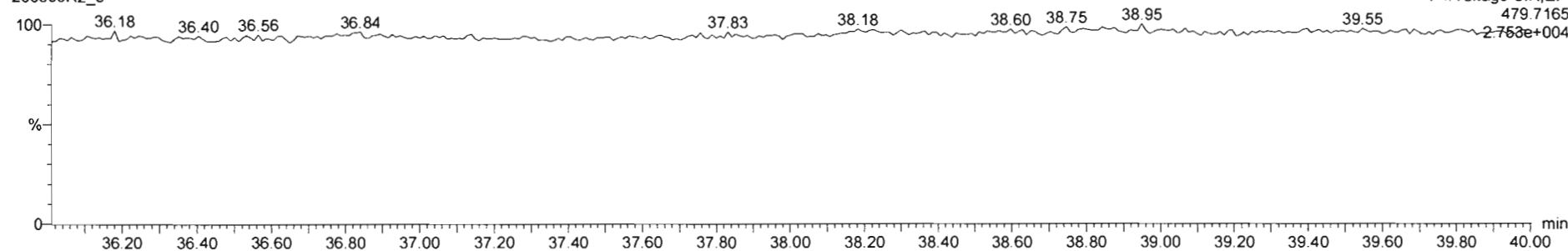


200306R2_5



DPE4

200306R2_5



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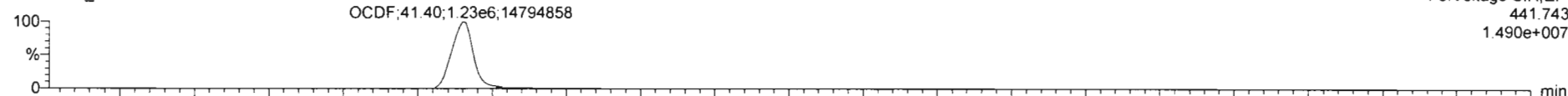
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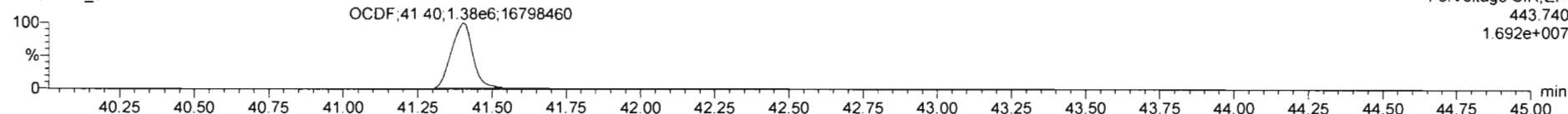
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OCDF

200306R2_5

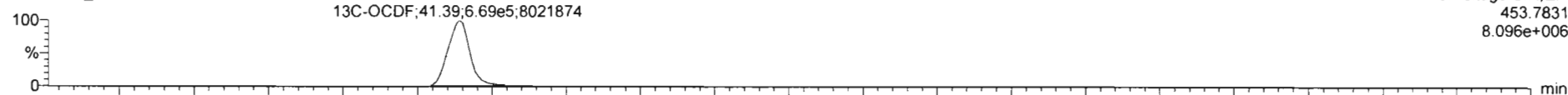


200306R2_5

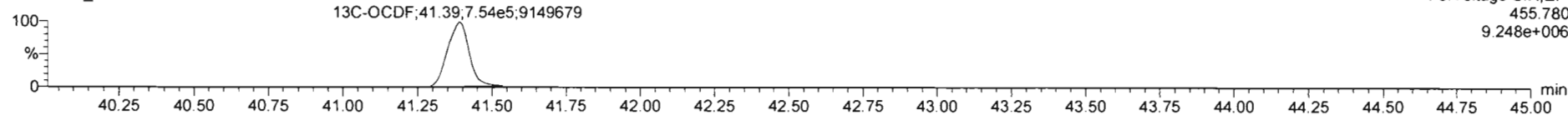


13C-OCDF

200306R2_5

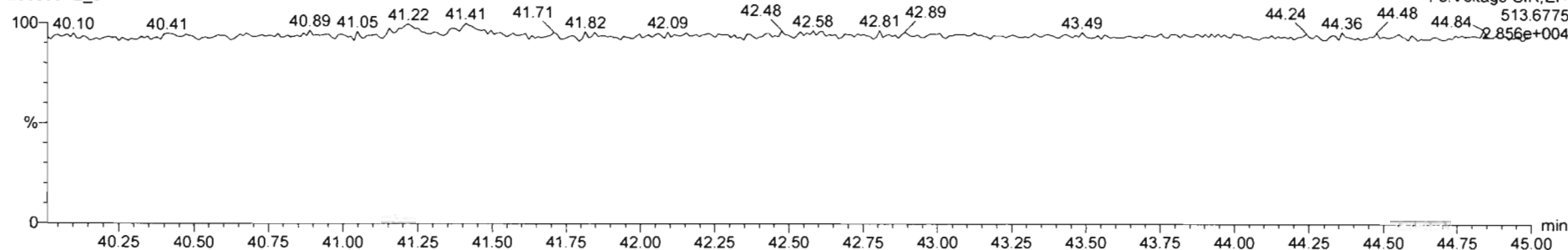


200306R2_5



DPE5

200306R2_5



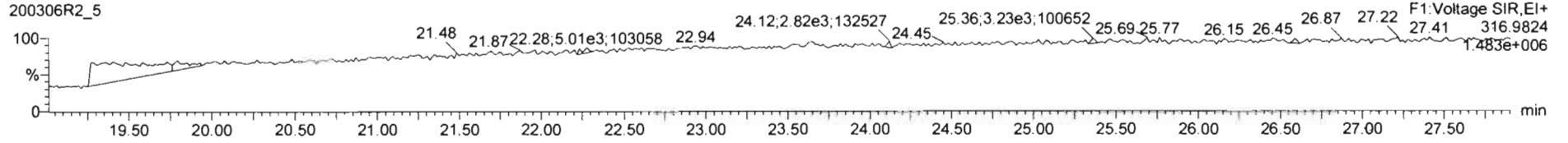
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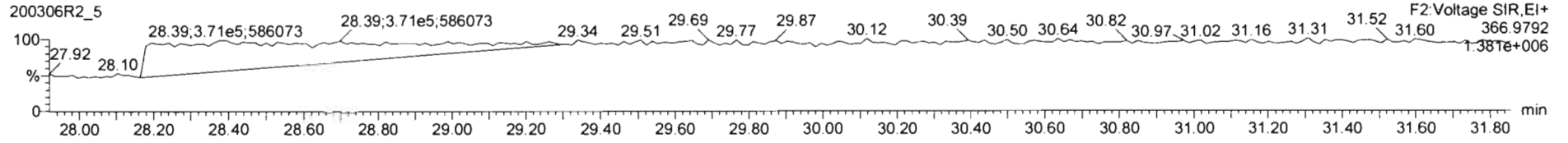
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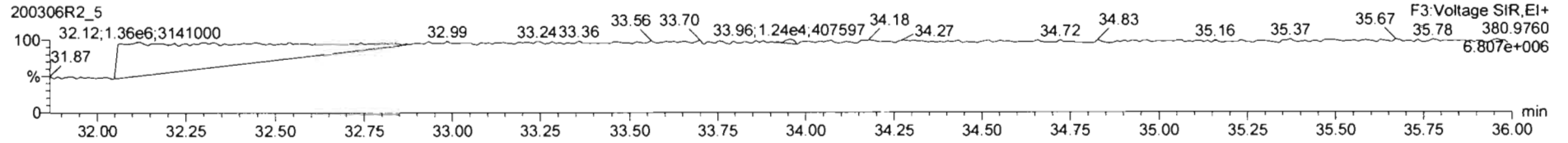
PFK1



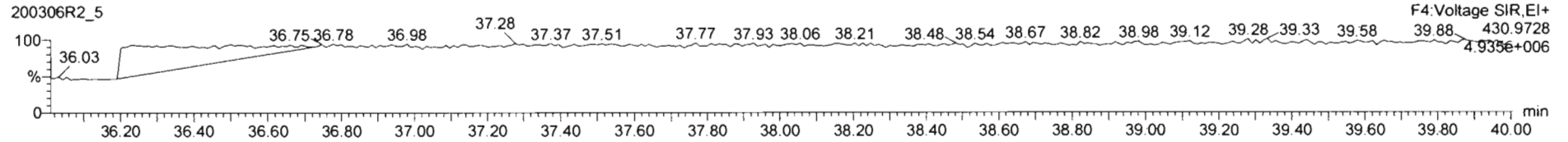
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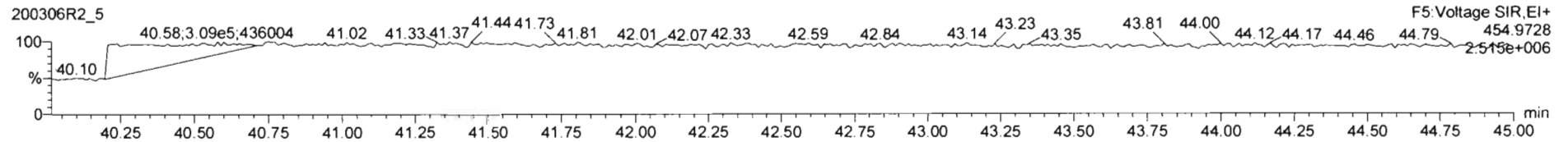
PFK3



PFK4



PFK5



Dataset: Untitled

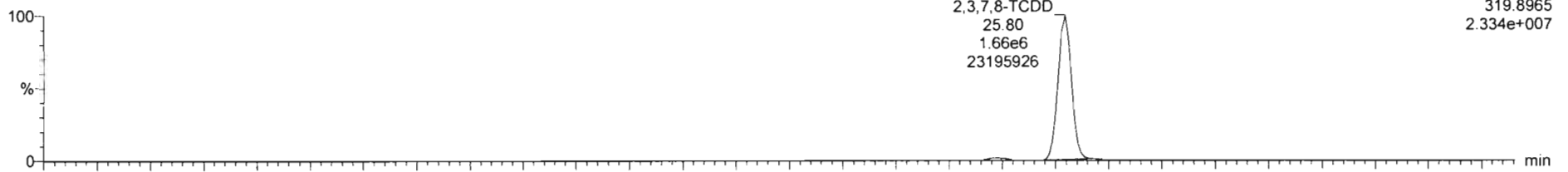
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

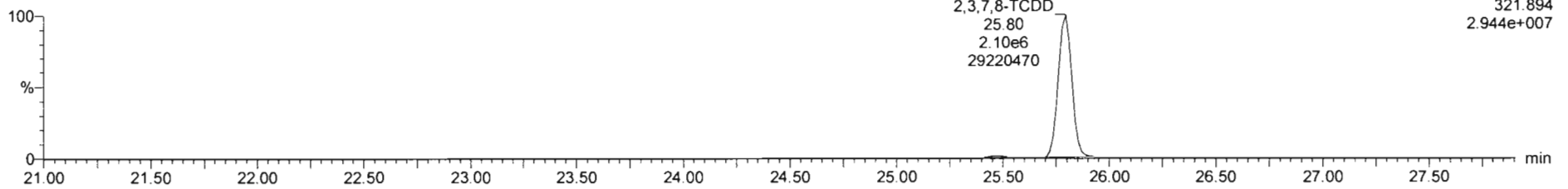
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2,3,7,8-TCDD

200306R2_6

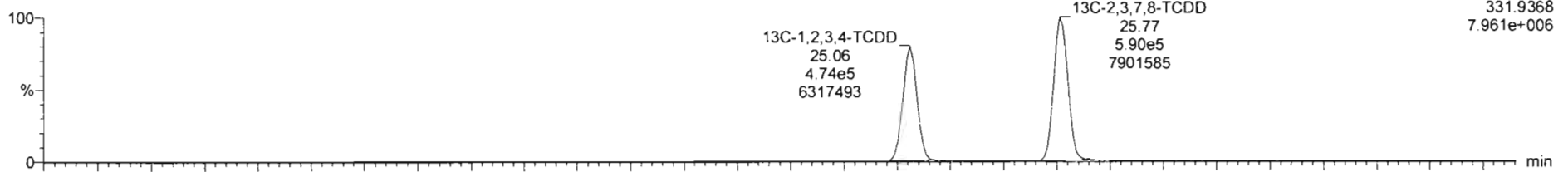


200306R2_6

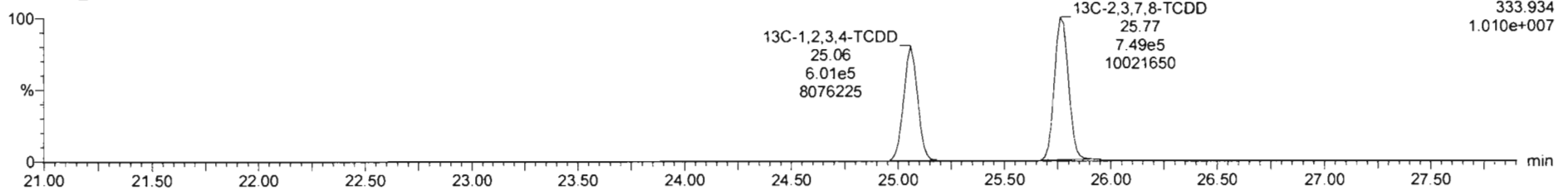


13C-2,3,7,8-TCDD

200306R2_6



200306R2_6



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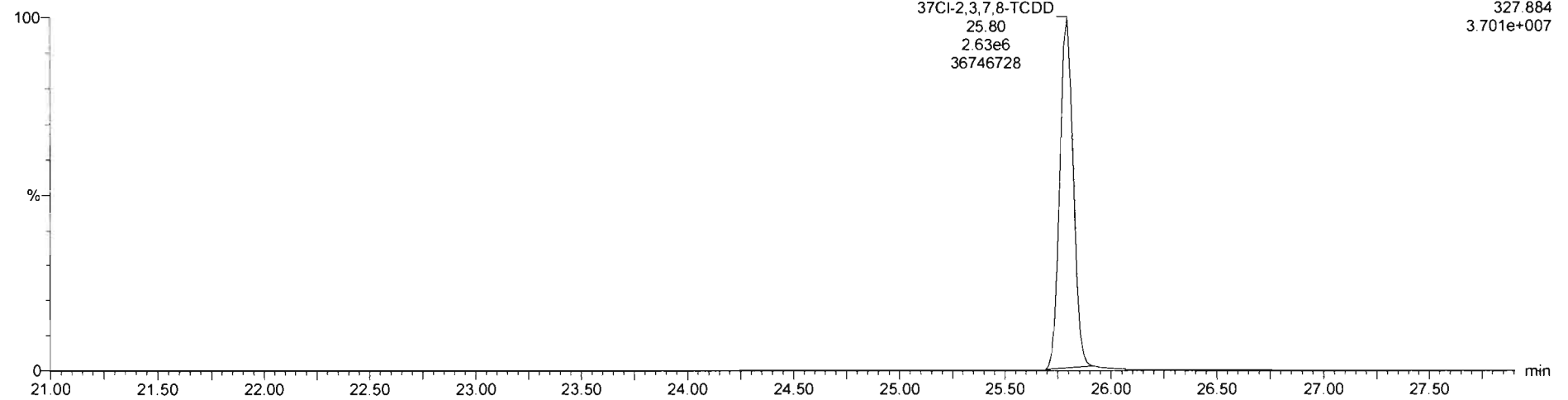
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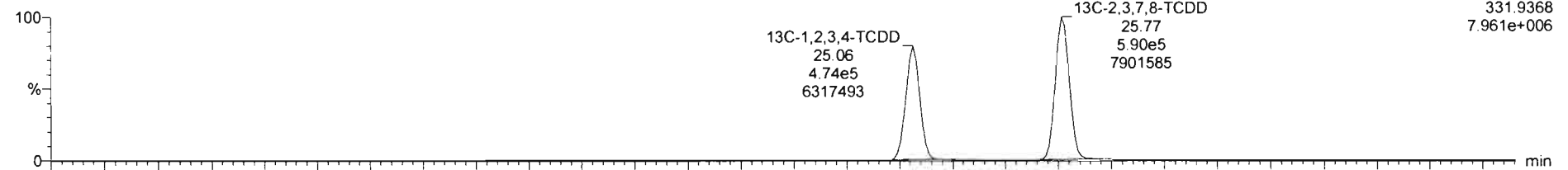
37Cl-2,3,7,8-TCDD

200306R2_6

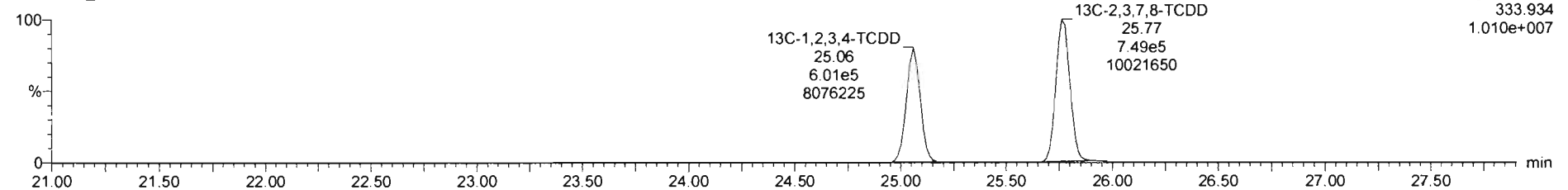


13C-1,2,3,4-TCDD

200306R2_6



200306R2_6



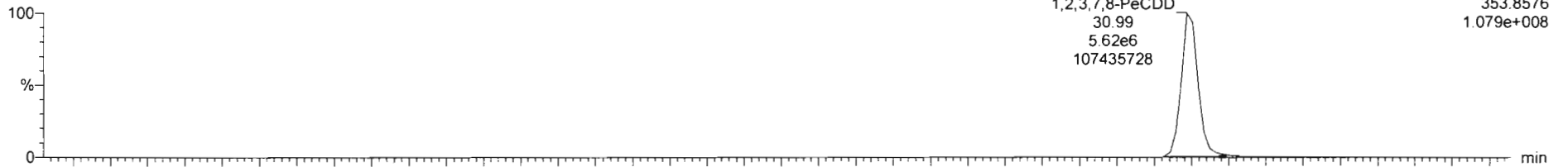
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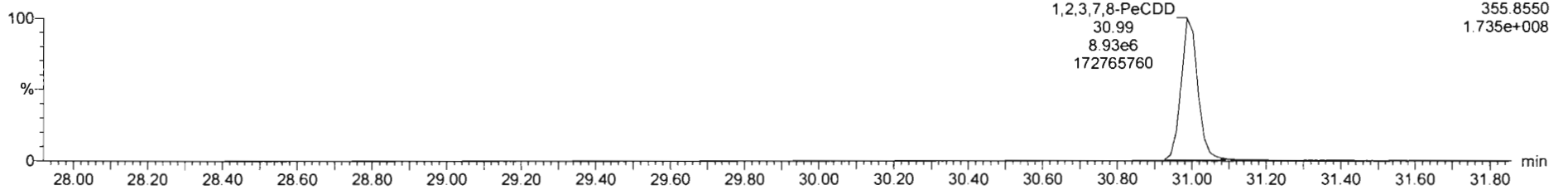
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1,2,3,7,8-PeCDD

200306R2_6

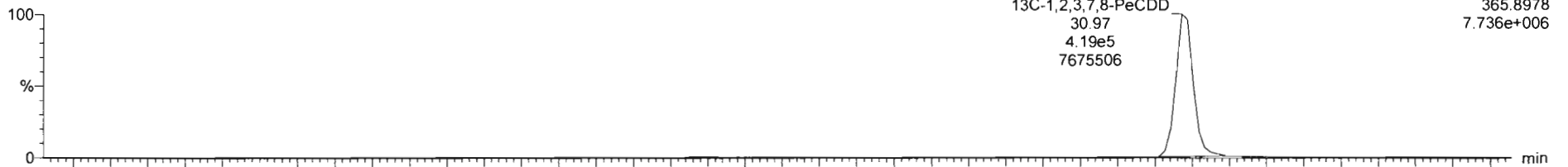


200306R2_6

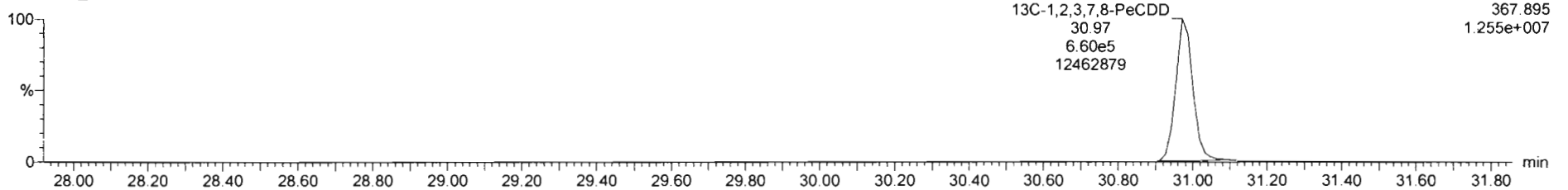


13C-1,2,3,7,8-PeCDD

200306R2_6



200306R2_6



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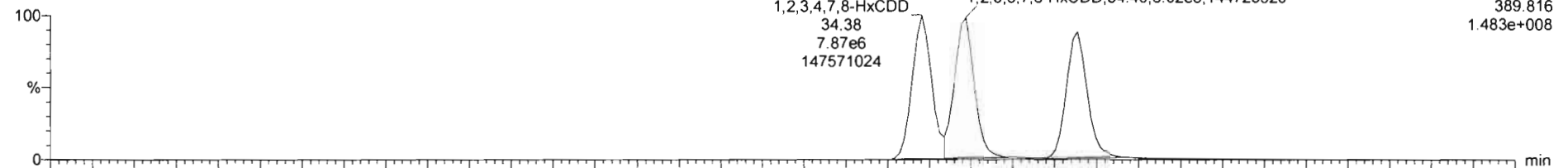
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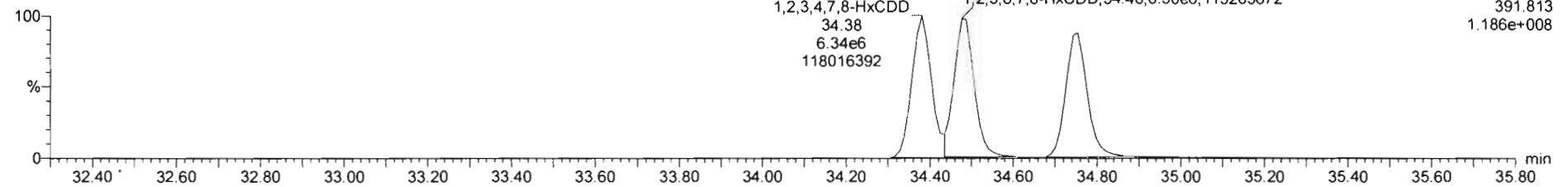
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1,2,3,4,7,8-HxCDD

200306R2_6

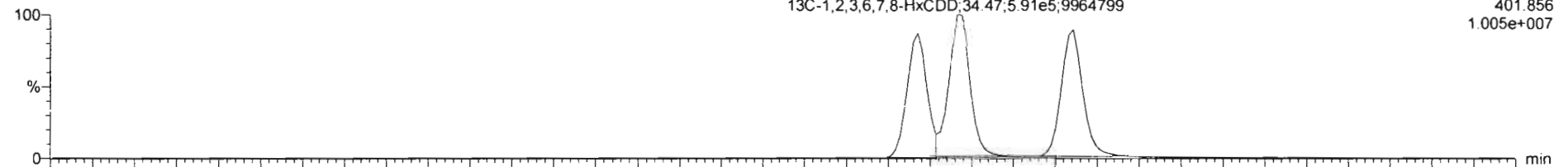


200306R2_6

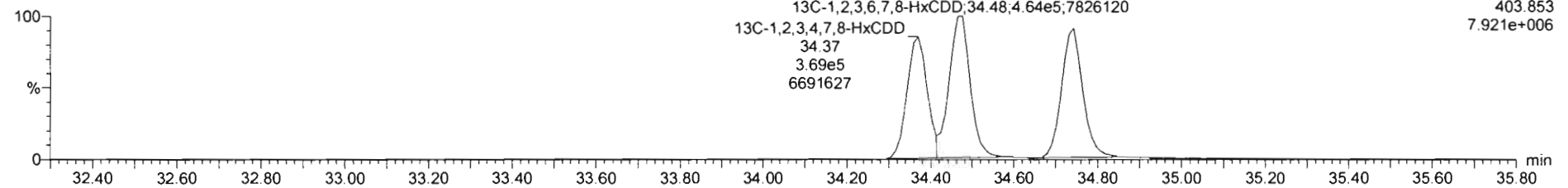


13C-1,2,3,4,7,8-HxCDD

200306R2_6



200306R2_6



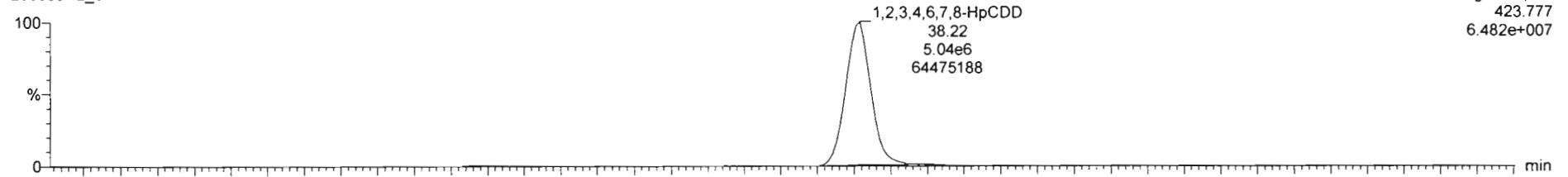
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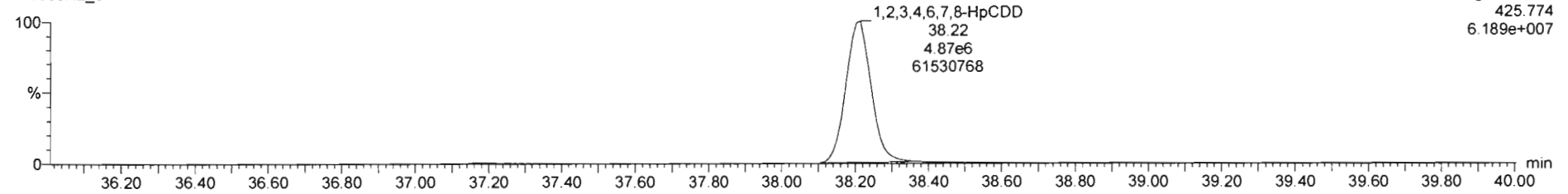
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1,2,3,4,6,7,8-HpCDD

200306R2_6

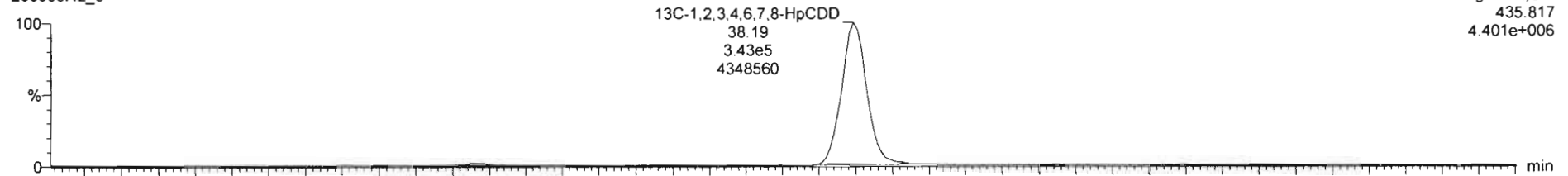


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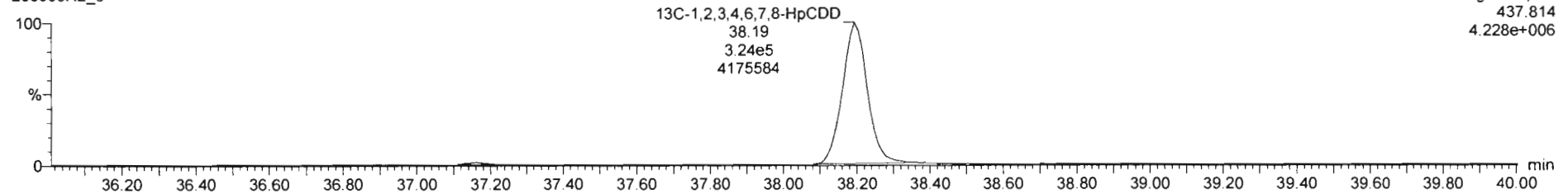


13C-1,2,3,4,6,7,8-HpCDD

200306R2_6



200306R2_6



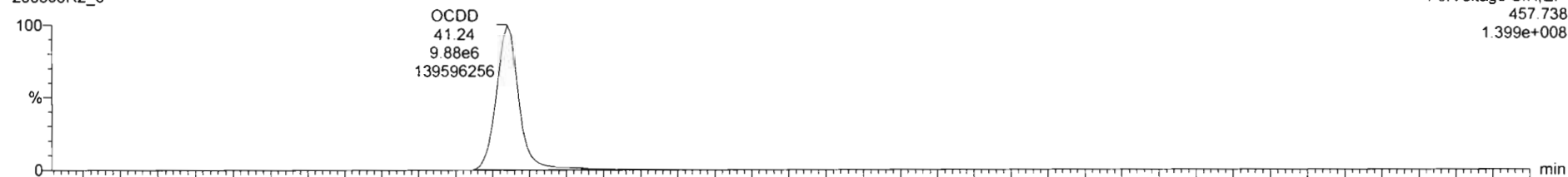
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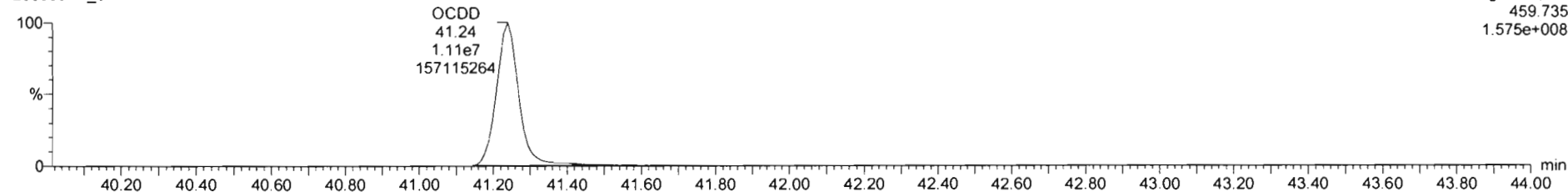
OCDD

200306R2_6



F5:Voltage SIR,EI+
457.738
1.399e+008

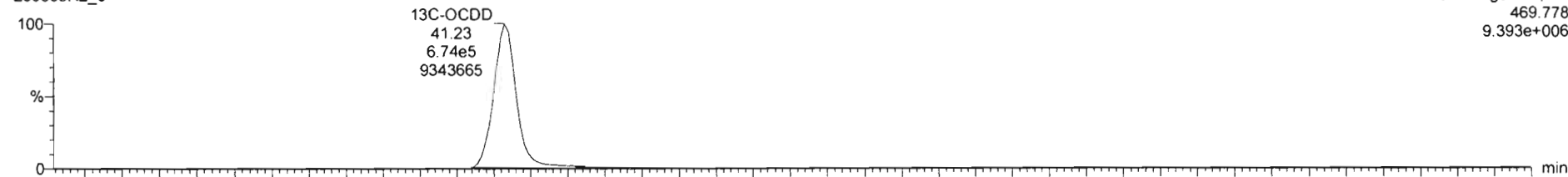
200306R2_6



F5:Voltage SIR,EI+
459.735
1.575e+008

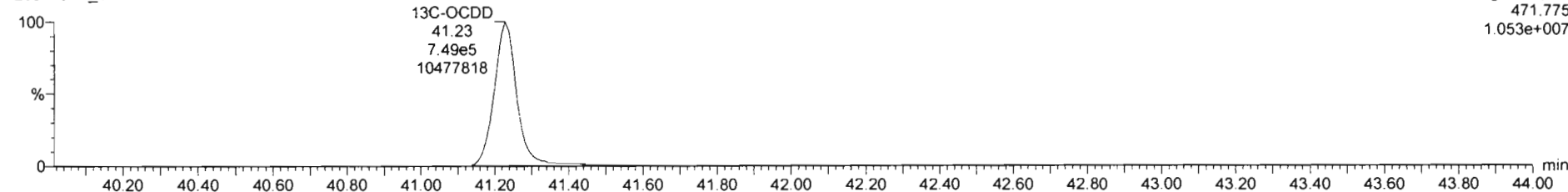
13C-OCDD

200306R2_6



F5:Voltage SIR,EI+
469.778
9.393e+006

200306R2_6



F5:Voltage SIR,EI+
471.775
1.053e+007

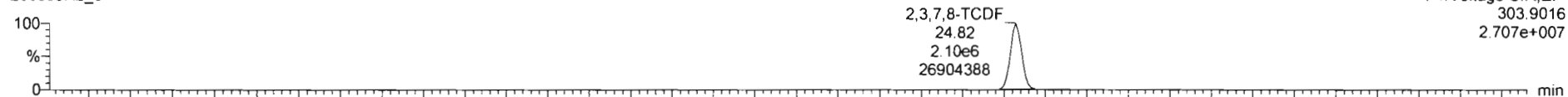
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

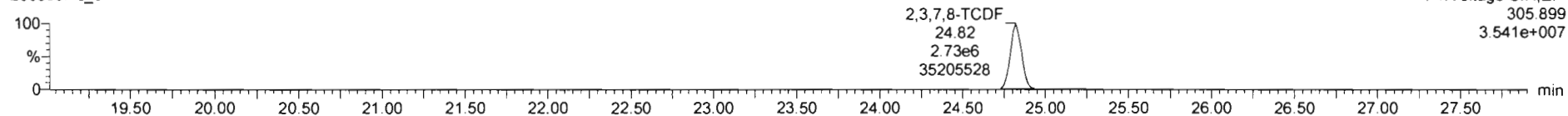
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2,3,7,8-TCDF

200306R2_6

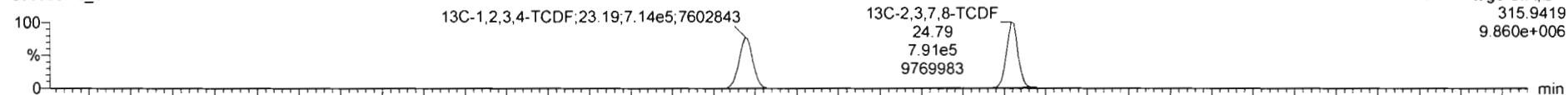


200306R2_6

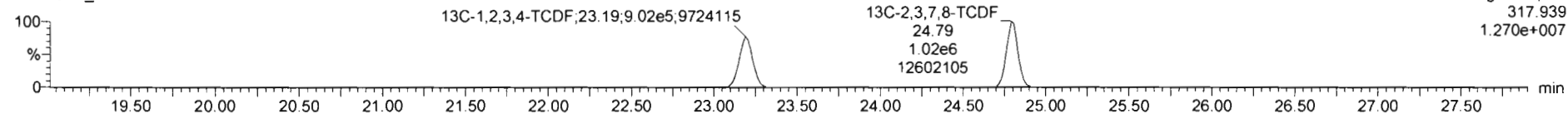


13C-2,3,7,8-TCDF

200306R2_6

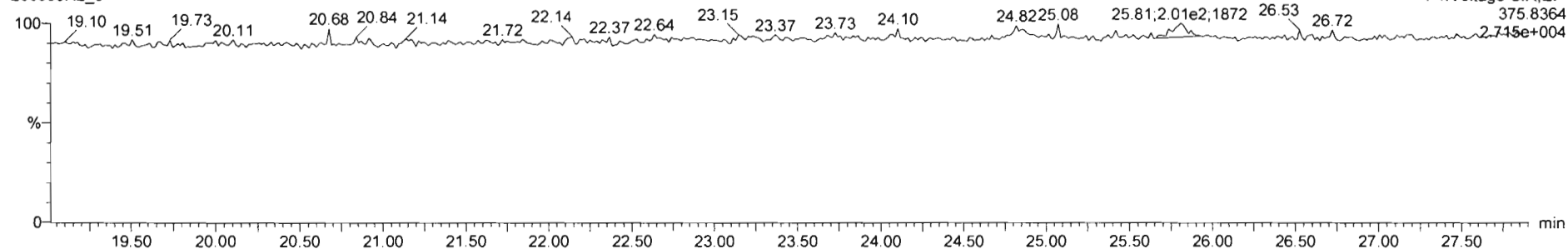


200306R2_6



DPE1

200306R2_6



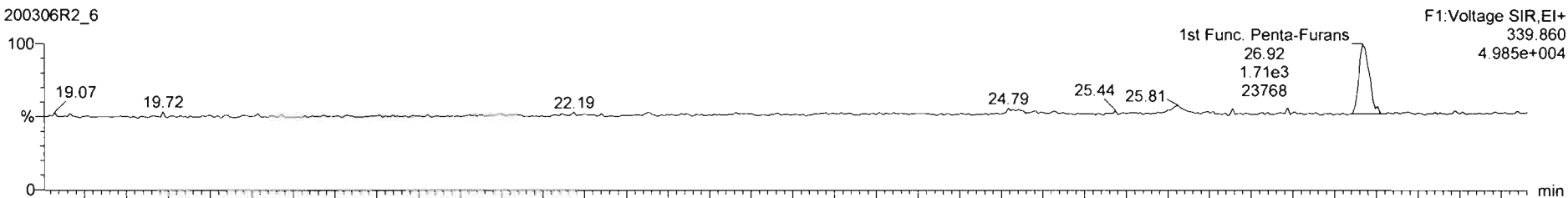
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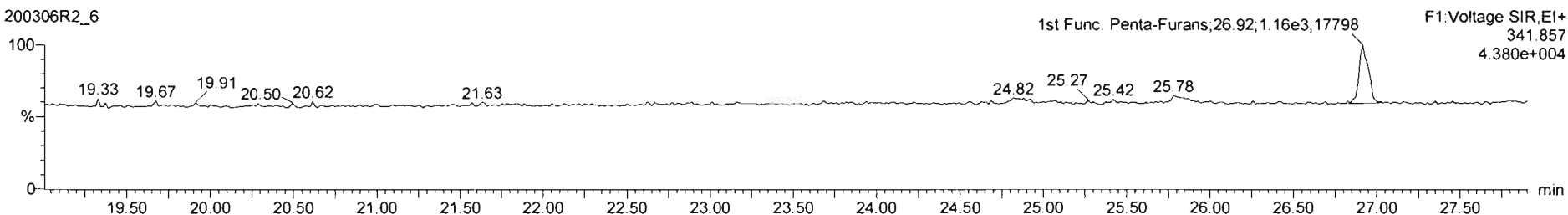
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1st Func. Penta-Furans

200306R2_6

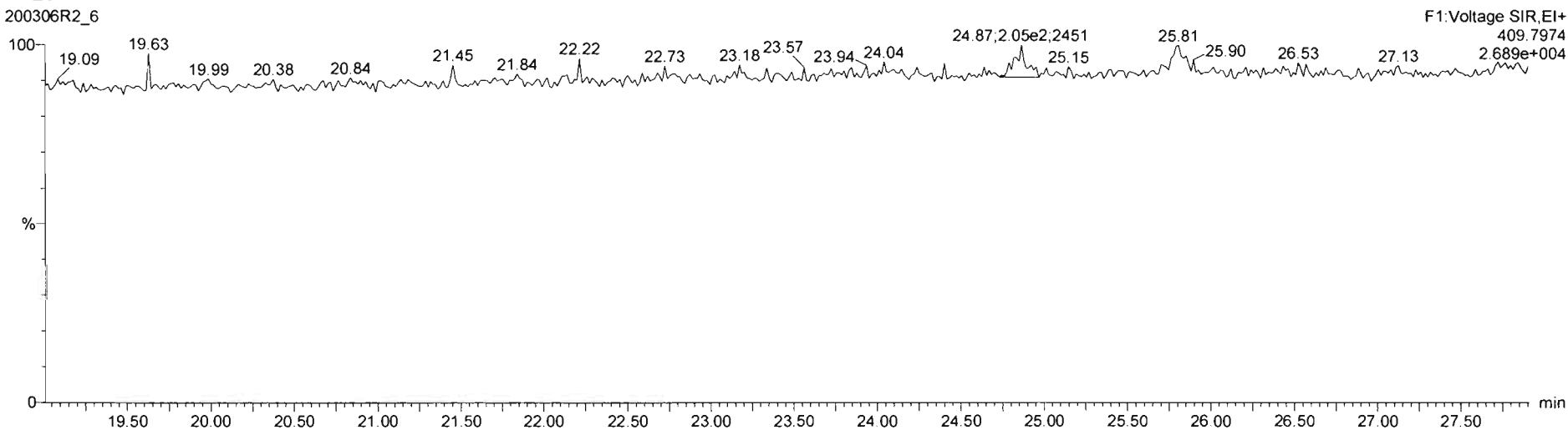


200306R2_6



DPE6

200306R2_6



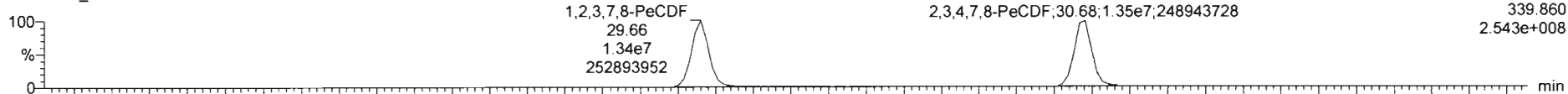
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Name: 200306R2_6, Date: 06-Mar-2020, Time: 17:07:03, ID: ST200306R2_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

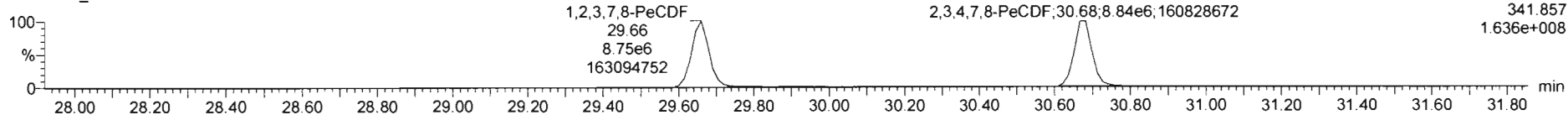
1,2,3,7,8-PeCDF

200306R2_6



F2:Voltage SIR,EI+
339.860
2.543e+008

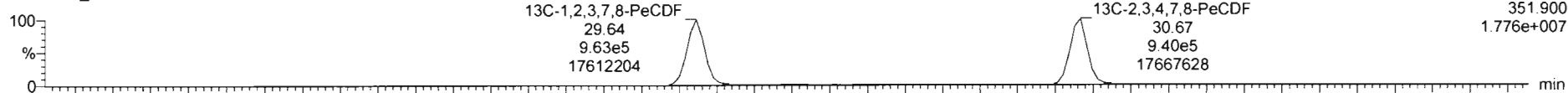
200306R2_6



F2:Voltage SIR,EI+
341.857
1.636e+008

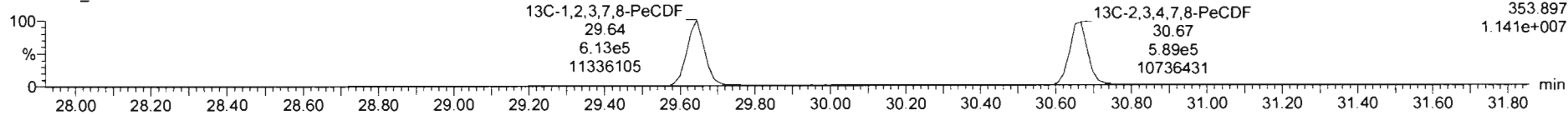
13C-1,2,3,7,8-PeCDF

200306R2_6



F2:Voltage SIR,EI+
351.900
1.776e+007

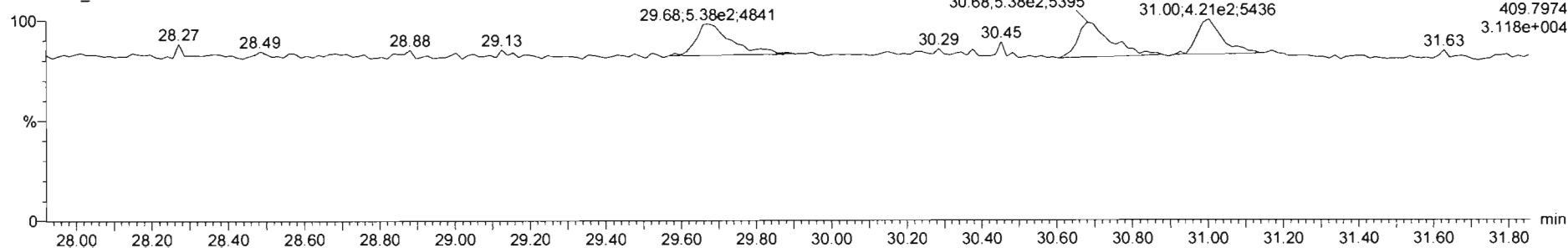
200306R2_6



F2:Voltage SIR,EI+
353.897
1.141e+007

DPE2

200306R2_6



F2:Voltage SIR,EI+
409.7974
3.118e+004

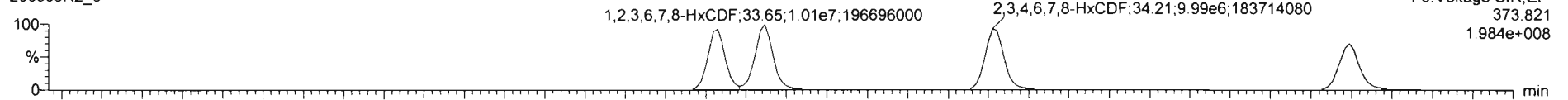
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

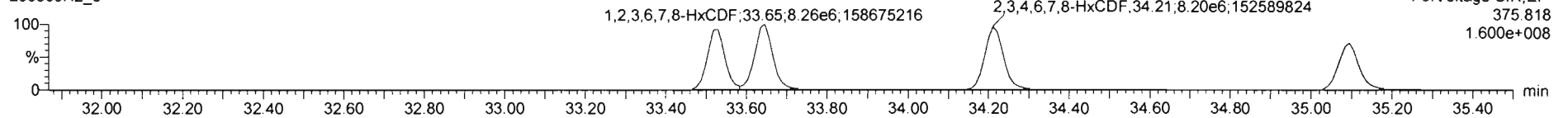
Name: 200306R2_6, Date: 06-Mar-2020, Time: 17:07:03, ID: ST200306R2_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

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

200306R2_6

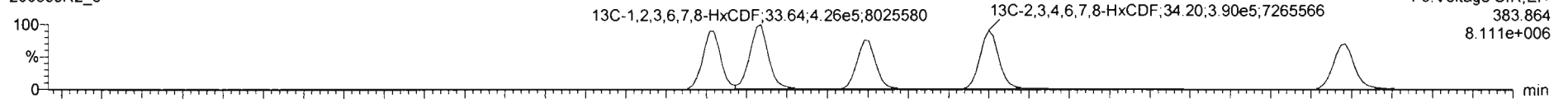


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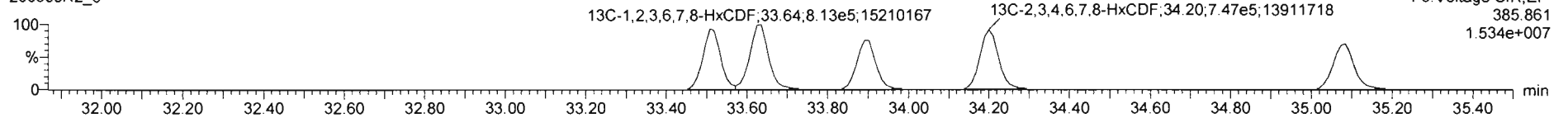


13C-1,2,3,4,7,8-HxCDF

200306R2_6

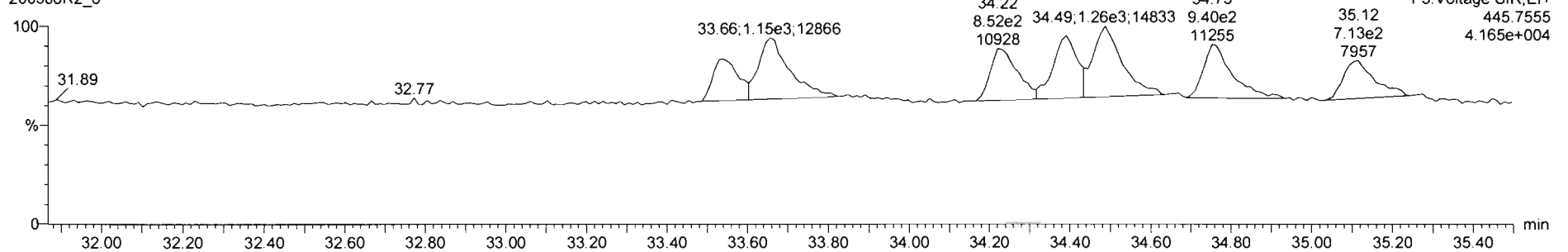


200306R2_6



DPE3

200306R2_6



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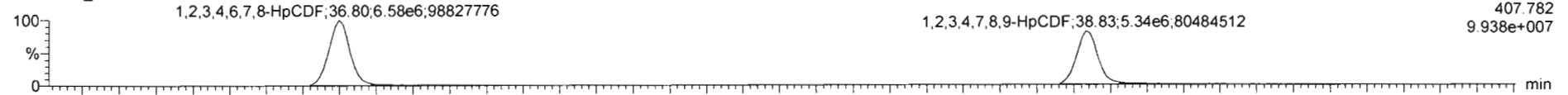
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

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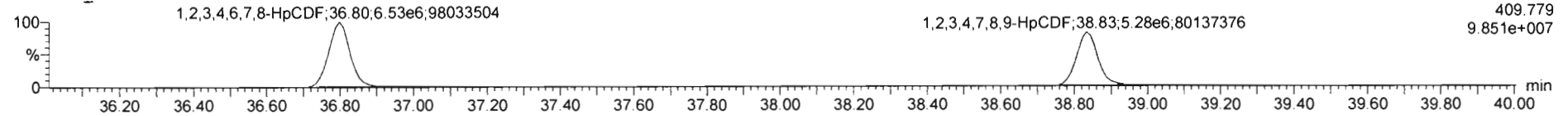
1,2,3,4,6,7,8-HpCDF

200306R2_6



F4:Voltage SIR,EI+
407.782
9.938e+007

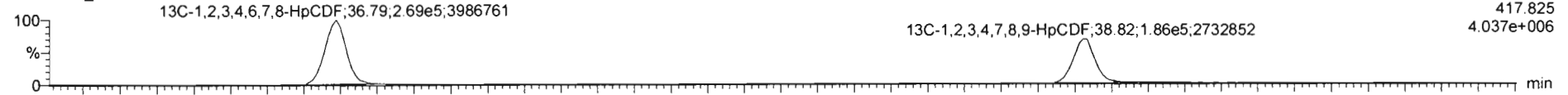
200306R2_6



F4:Voltage SIR,EI+
409.779
9.851e+007

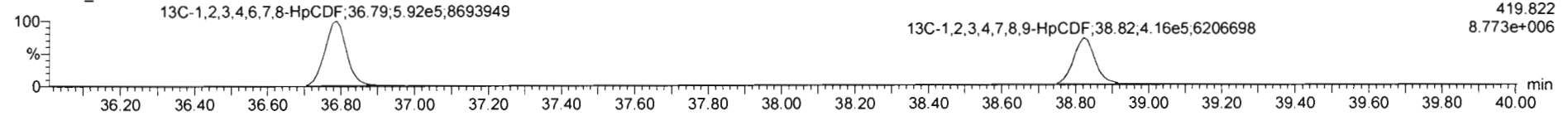
13C-1,2,3,4,6,7,8-HpCDF

200306R2_6



F4:Voltage SIR,EI+
417.825
4.037e+006

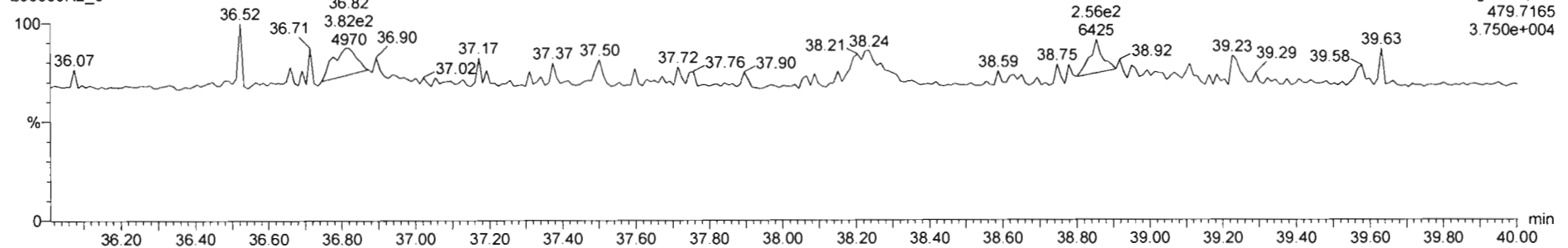
200306R2_6



F4:Voltage SIR,EI+
419.822
8.773e+006

DPE4

200306R2_6

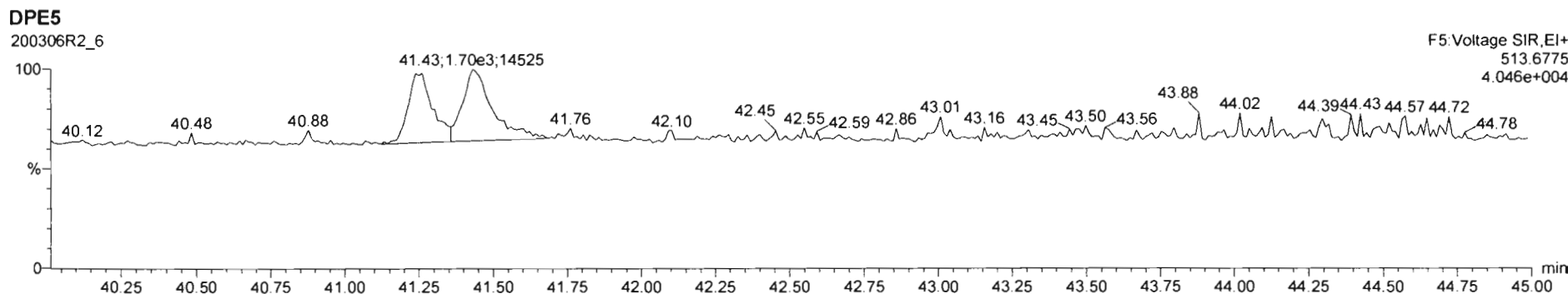
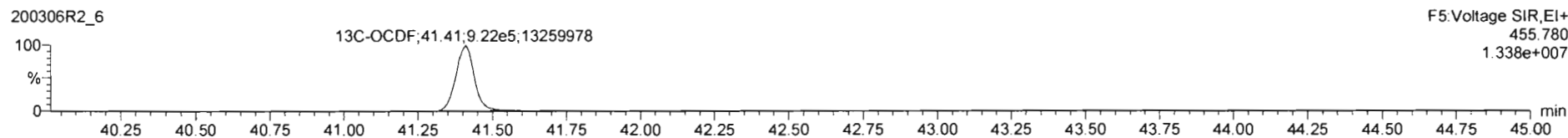
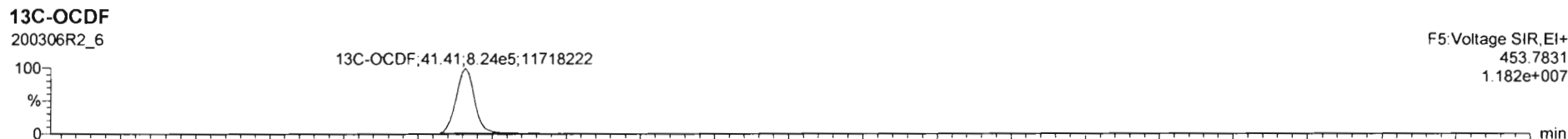
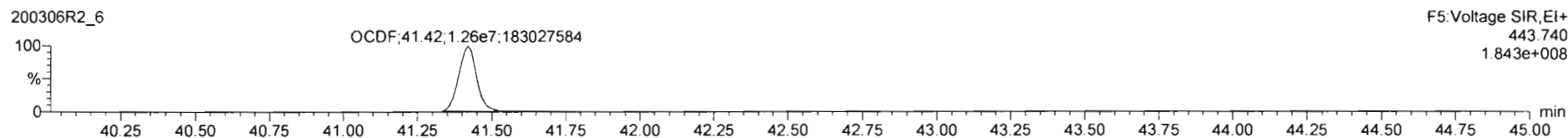
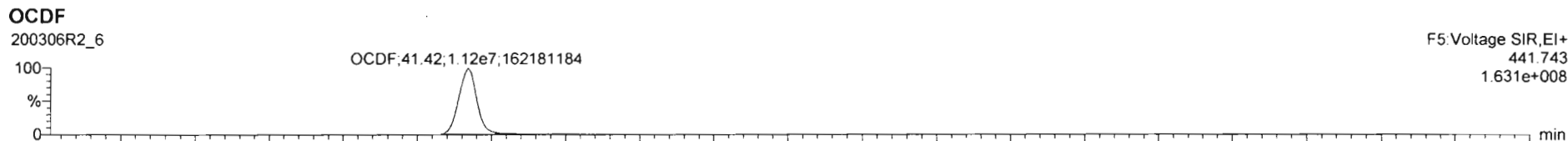


F4:Voltage SIR,EI+
479.7165
3.750e+004

Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

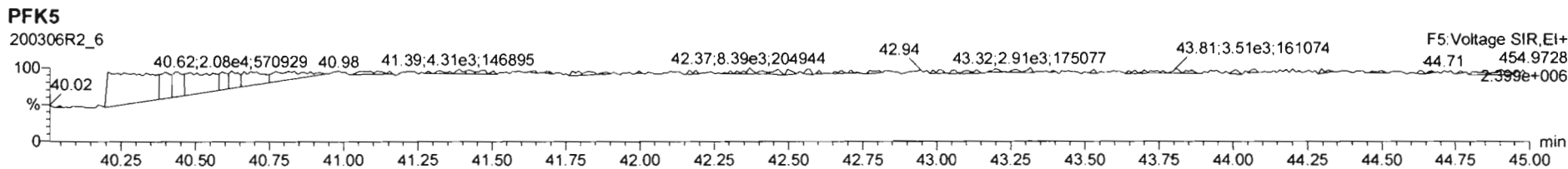
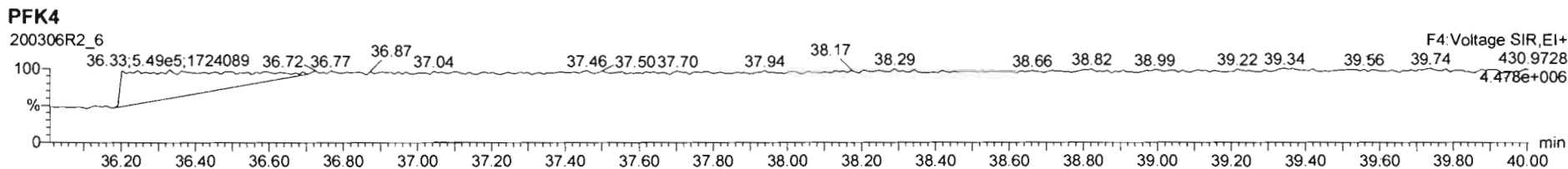
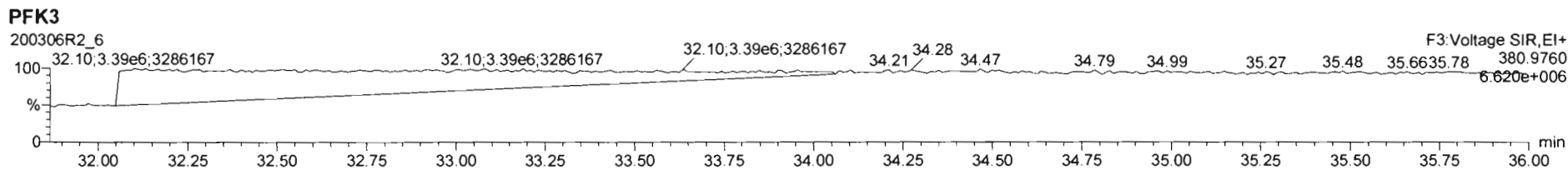
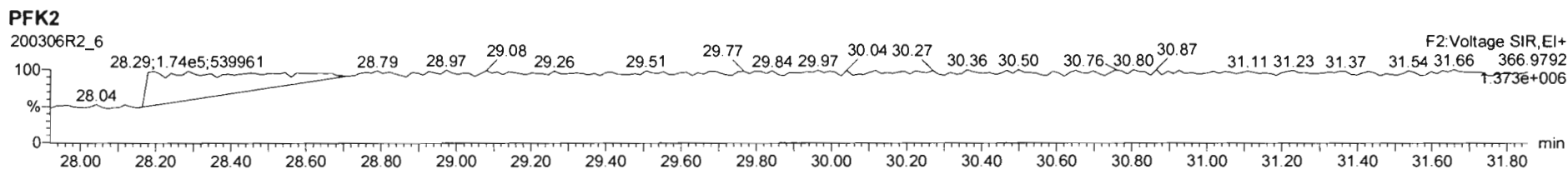
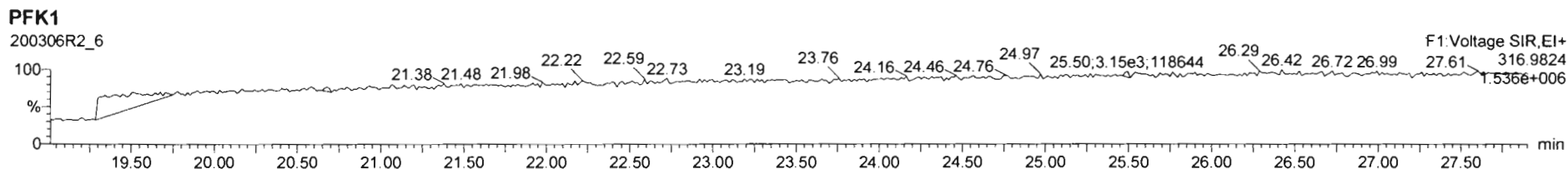
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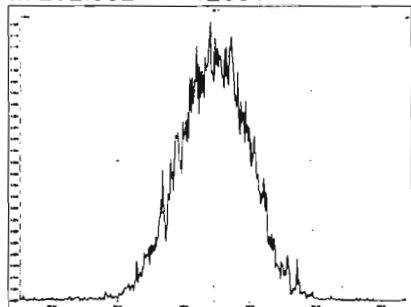
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Name: 200306R2_6, Date: 06-Mar-2020, Time: 17:07:03, ID: ST200306R2_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

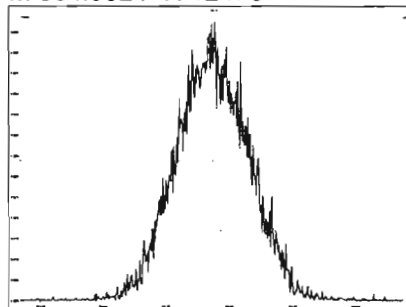


Printed: Friday, March 06, 2020 19:38:46 Pacific Standard Time

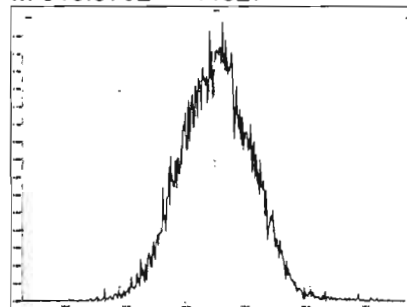
M 292.9824 R 12631



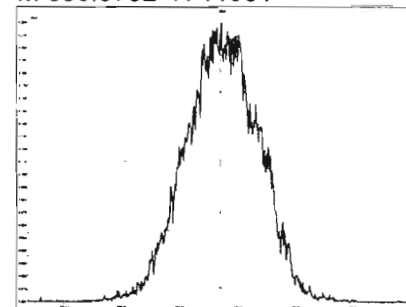
M 304.9824 R 12475



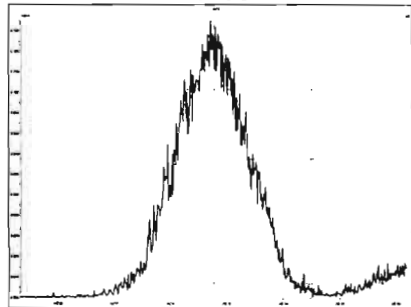
M 318.9792 R 11827



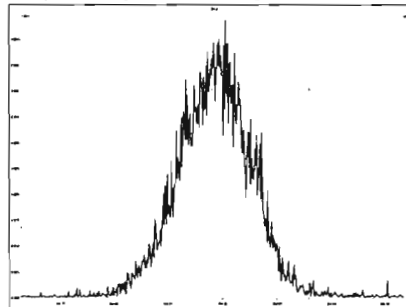
M 330.9792 R 11961



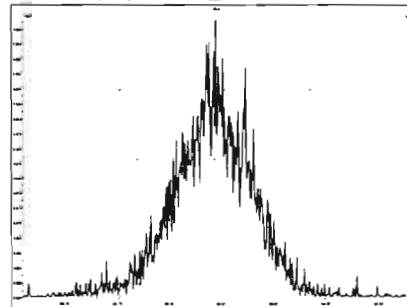
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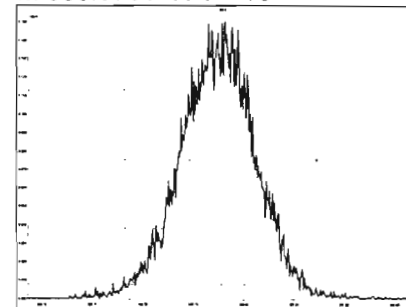
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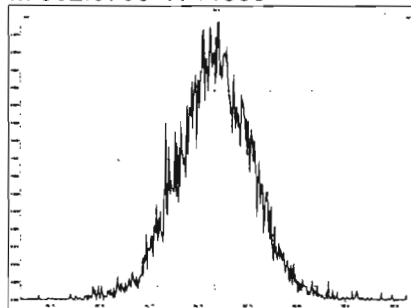
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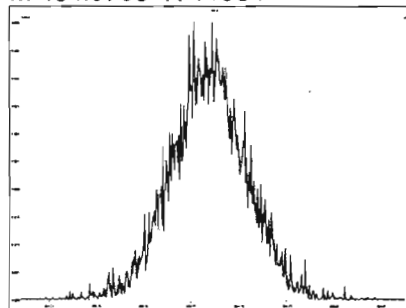
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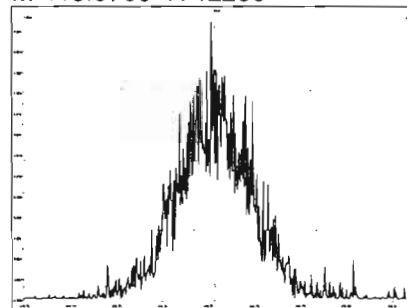
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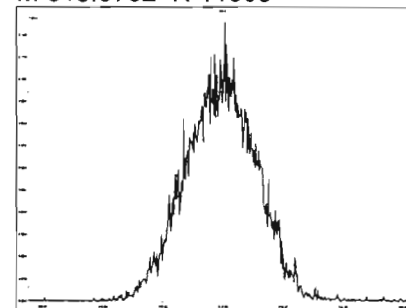
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M 416.9760 R 12269

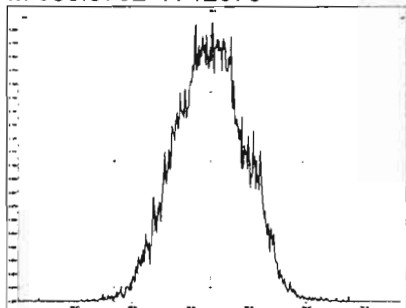


M 318.9792 R 11905

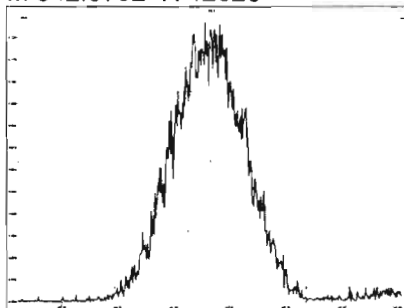


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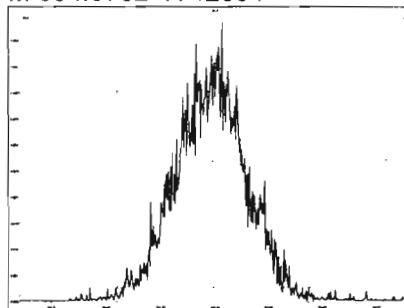
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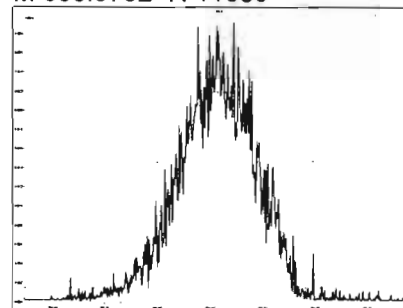
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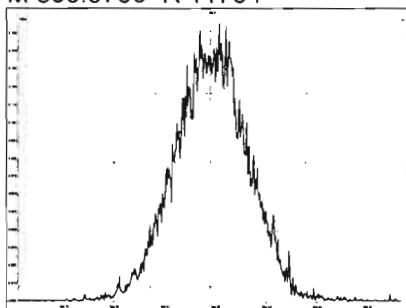
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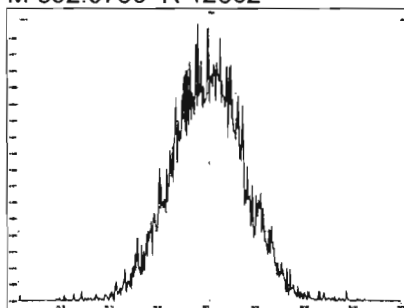
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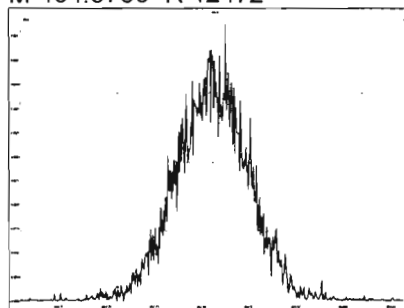
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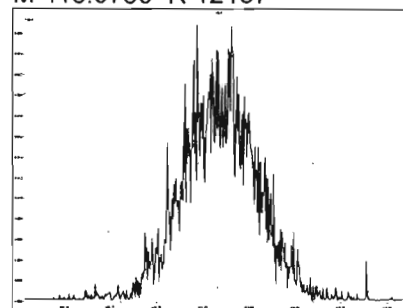
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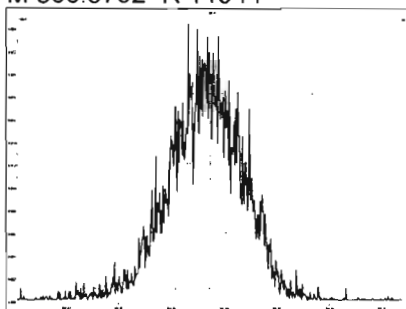
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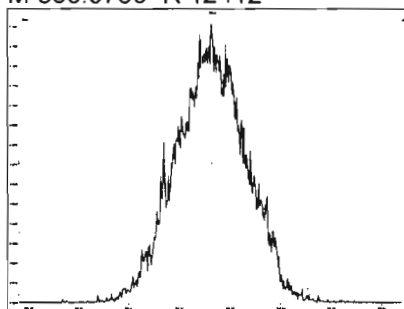
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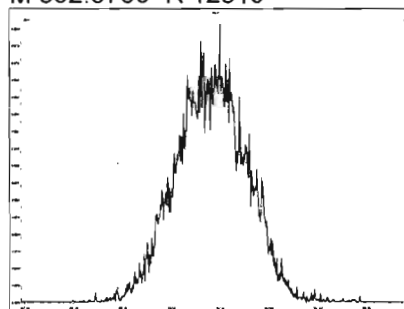
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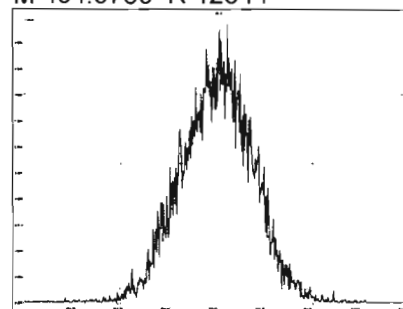
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M 392.9760 R 12319

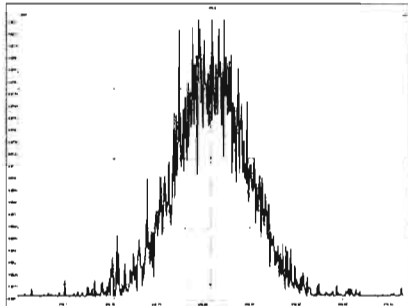


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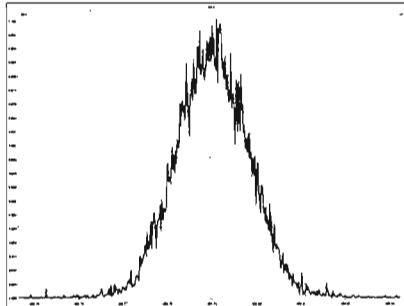


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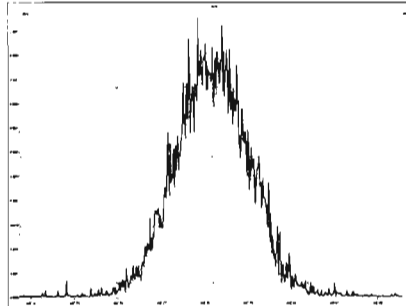
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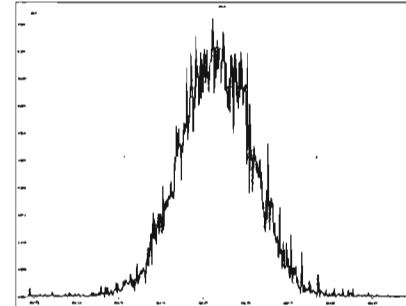
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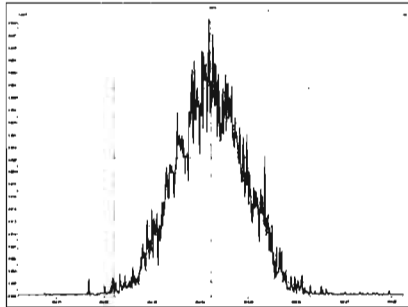
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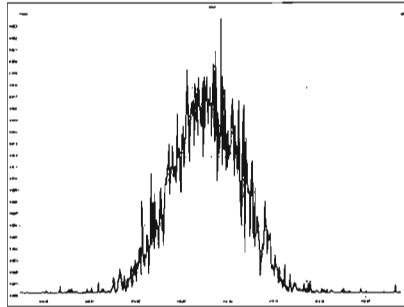
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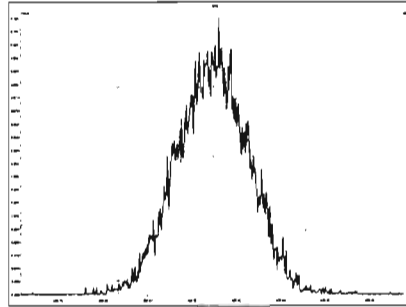
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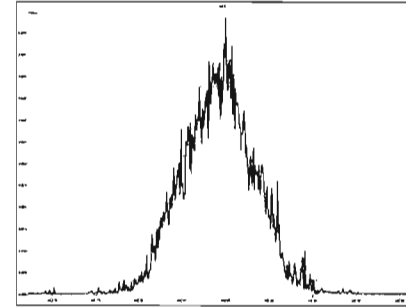
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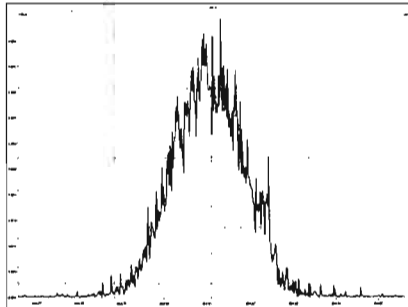
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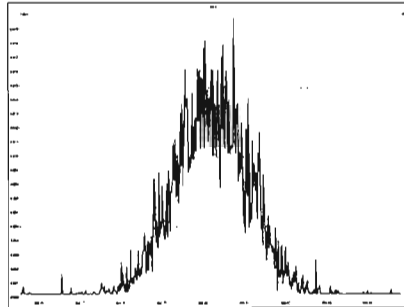
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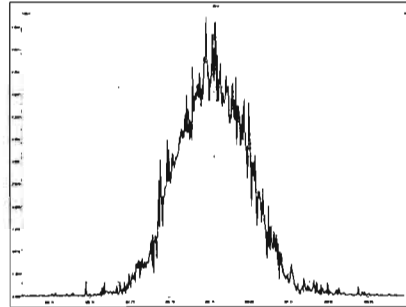
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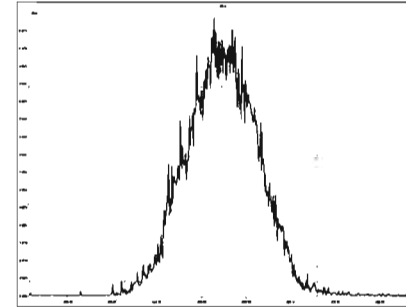
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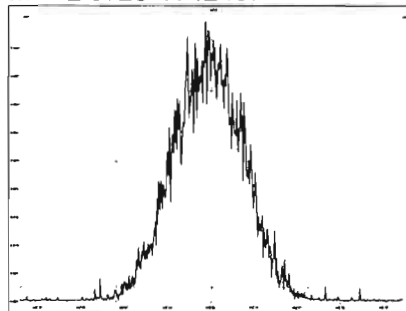


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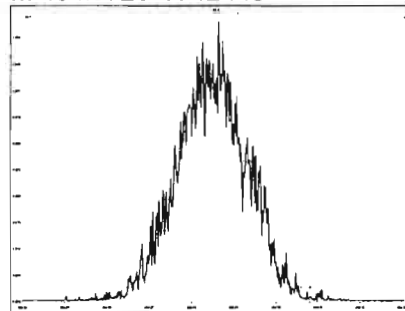


Printed: Friday, March 06, 2020 19:38:46 Pacific Standard Time

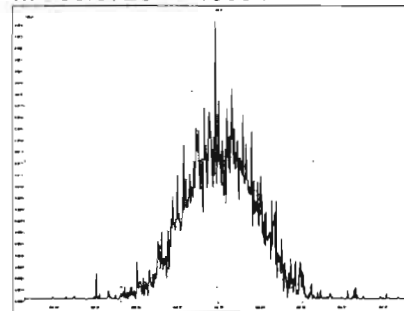
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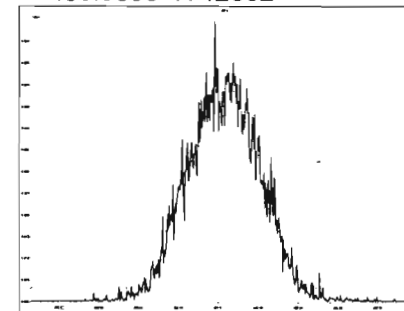
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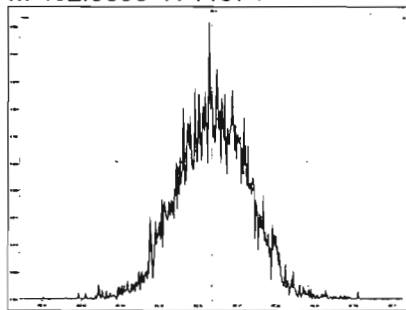
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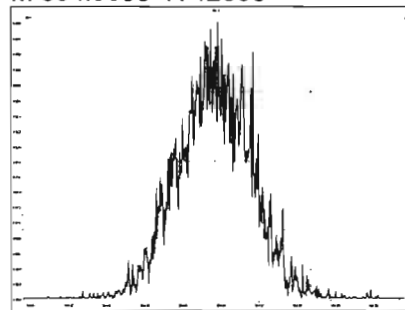
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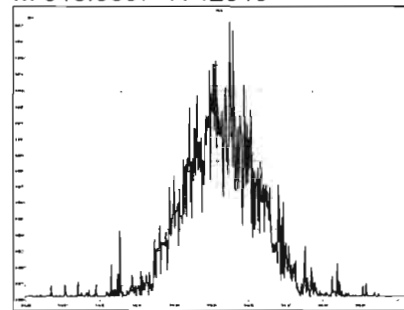
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M 504.9696 R 12658



M 516.9697 R 12919



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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	

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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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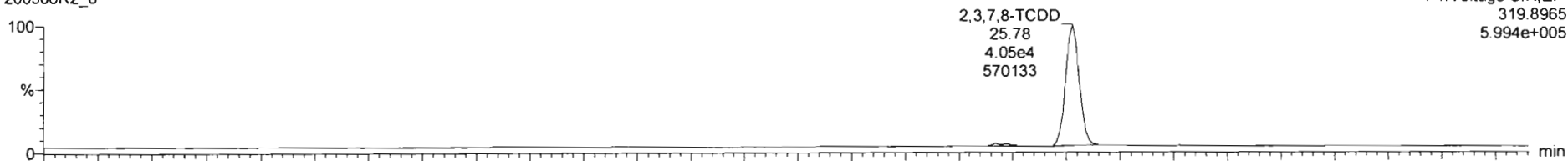
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Printed: Monday, March 09, 2020 09:03:37 Pacific Daylight Time

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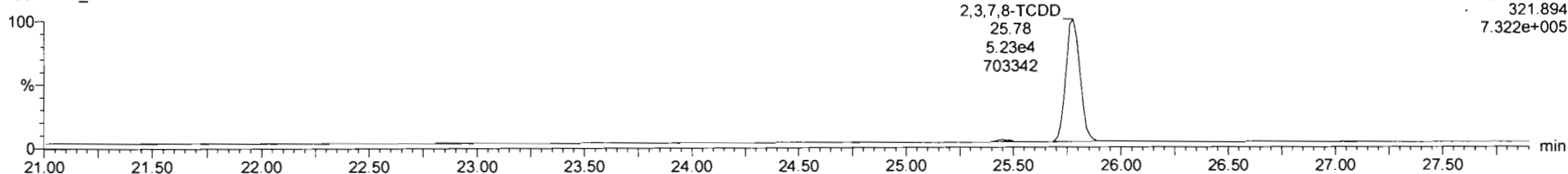
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2,3,7,8-TCDD

200306R2_8

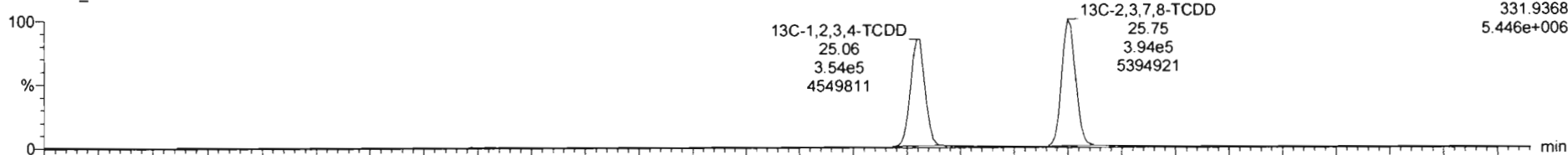


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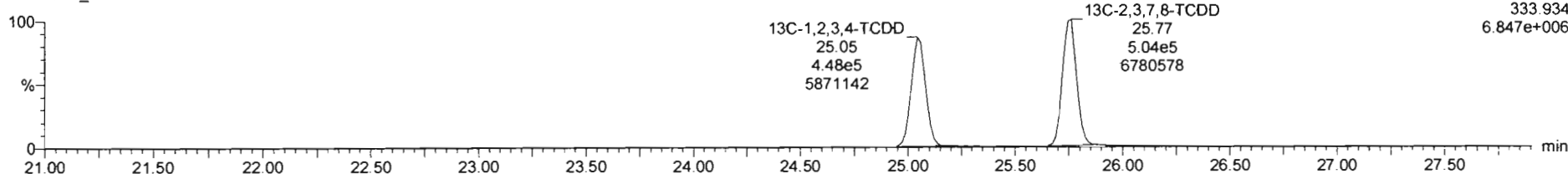


13C-2,3,7,8-TCDD

200306R2_8



200306R2_8



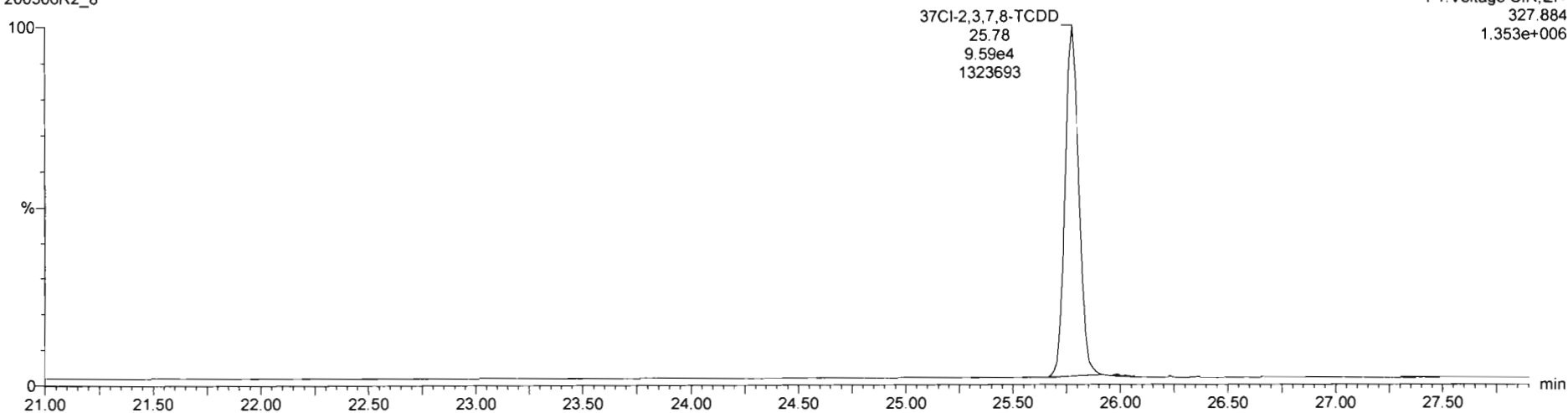
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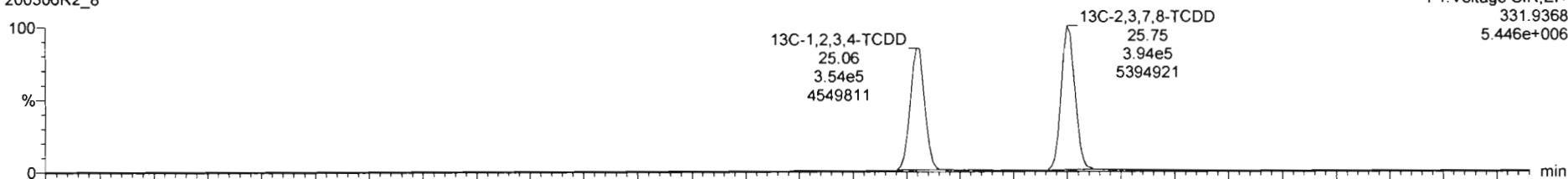
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200306R2_8

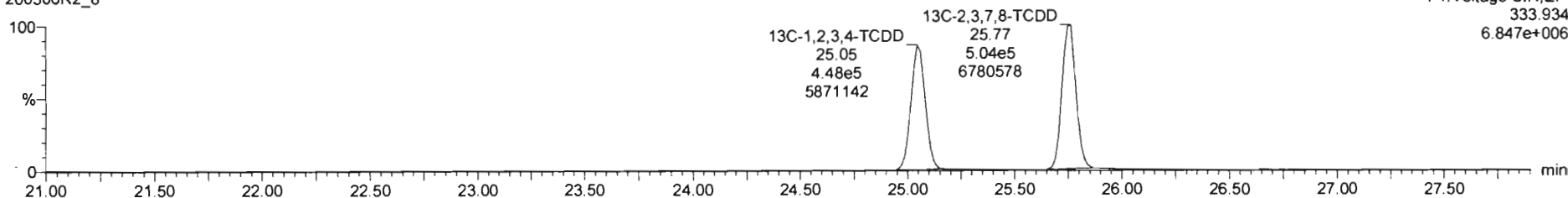


13C-1,2,3,4-TCDD

200306R2_8



200306R2_8



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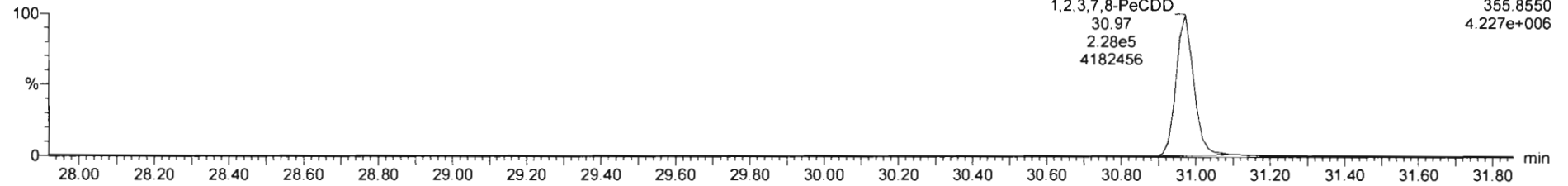
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1,2,3,7,8-PeCDD

200306R2_8

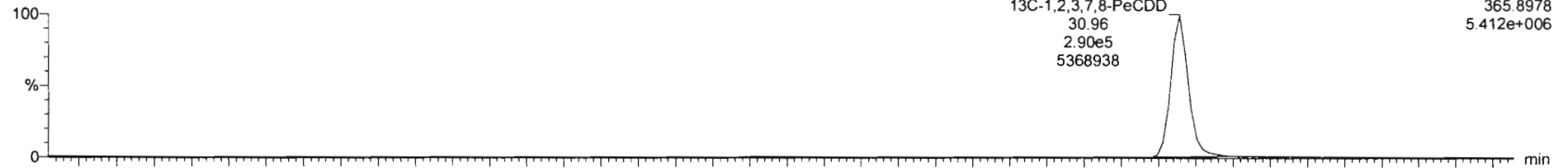


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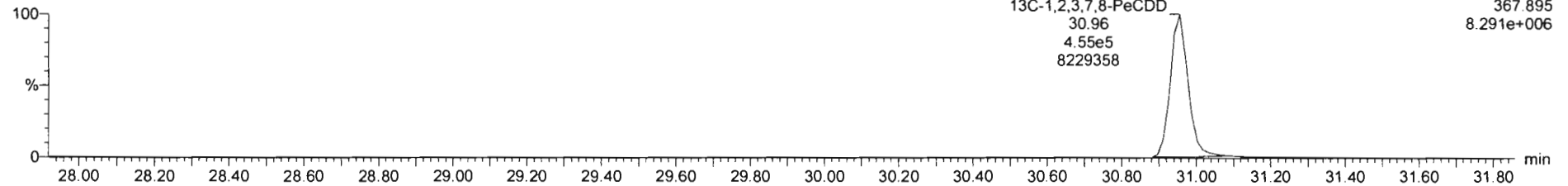


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200306R2_8



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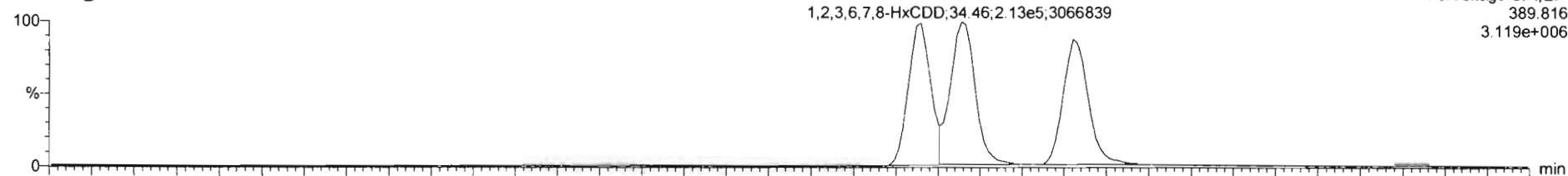
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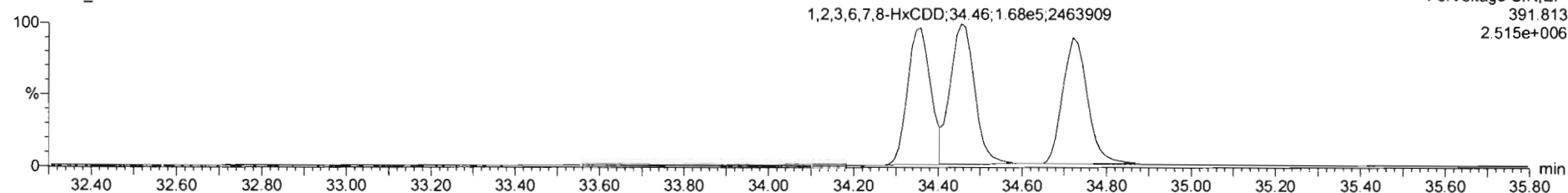
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1,2,3,4,7,8-HxCDD

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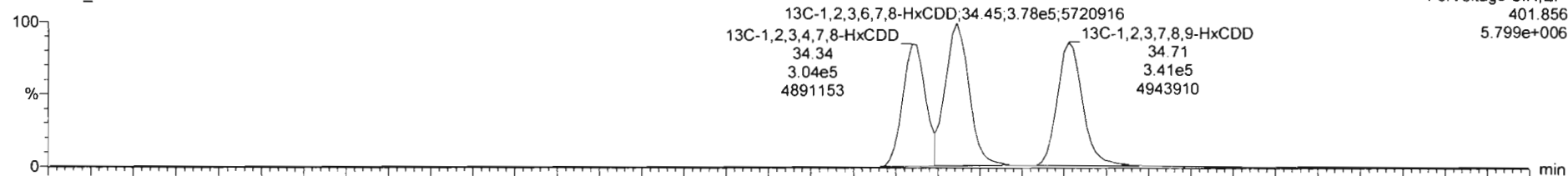


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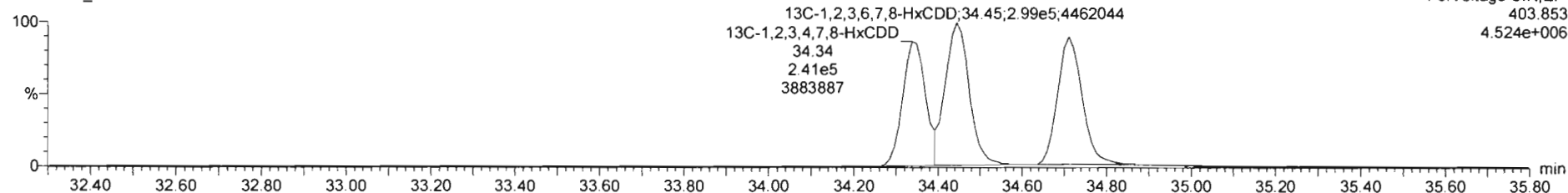


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200306R2_8



200306R2_8



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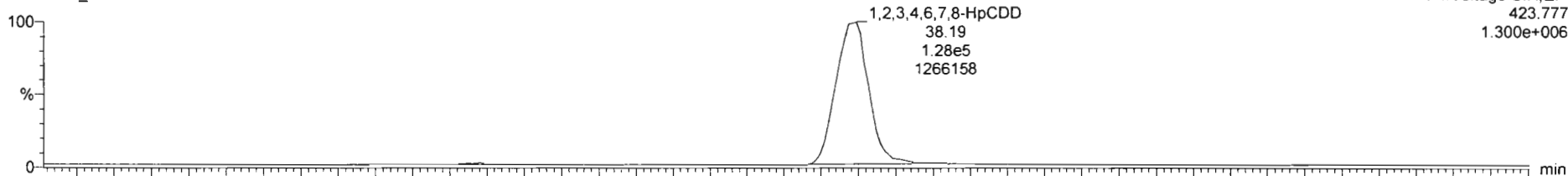
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Name: 200306R2_8, Date: 06-Mar-2020, Time: 18:42:29, ID: SS200306R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

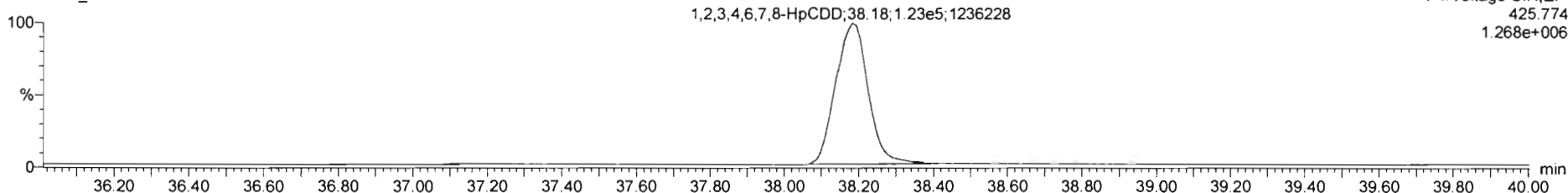
1,2,3,4,6,7,8-HpCDD

200306R2_8



F4: Voltage SIR, EI+
423.777
1.300e+006

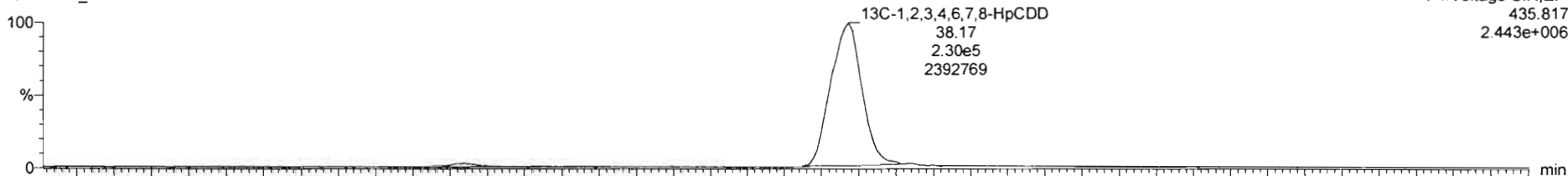
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F4: Voltage SIR, EI+
425.774
1.268e+006

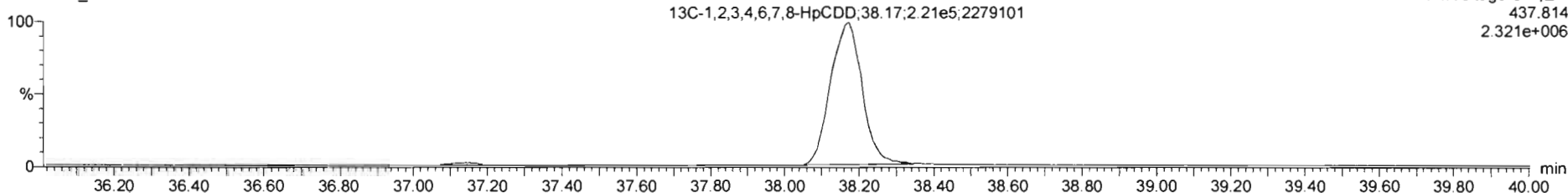
13C-1,2,3,4,6,7,8-HpCDD

200306R2_8



F4: Voltage SIR, EI+
435.817
2.443e+006

200306R2_8

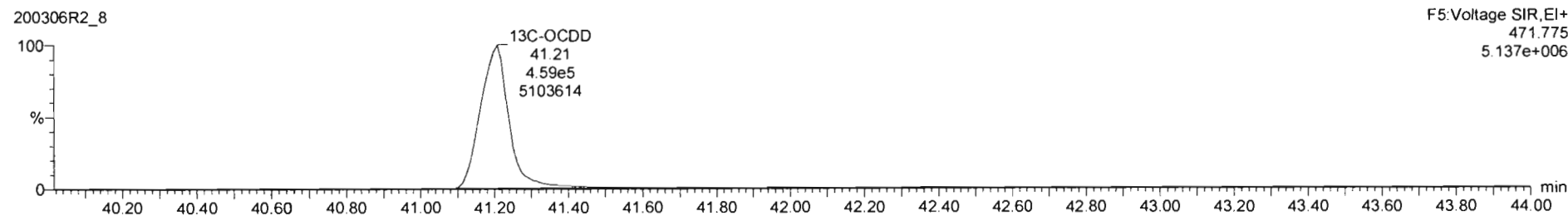
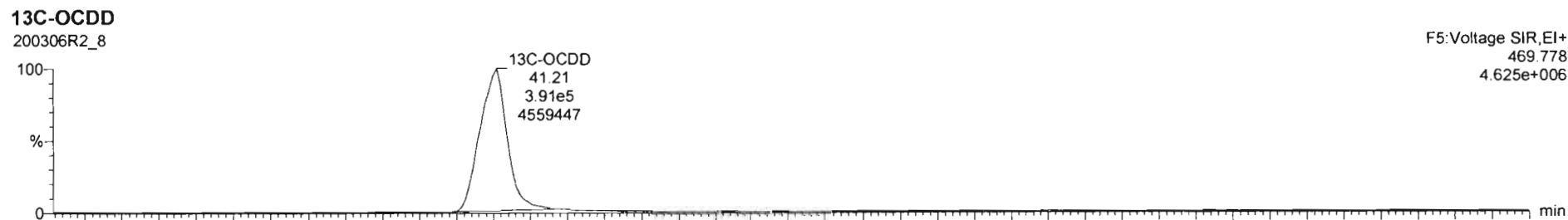
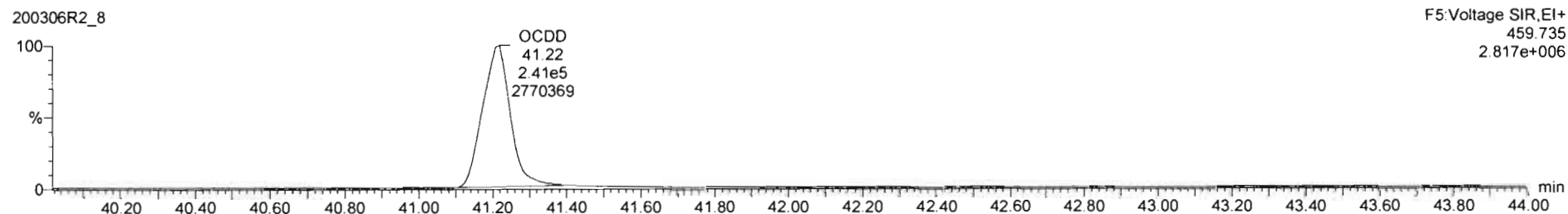
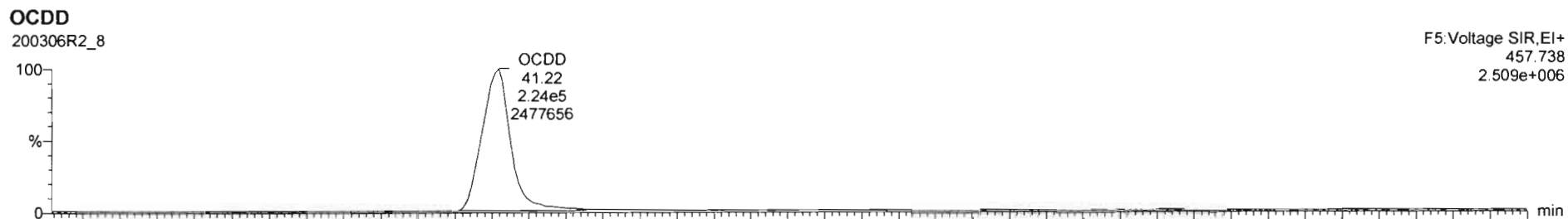


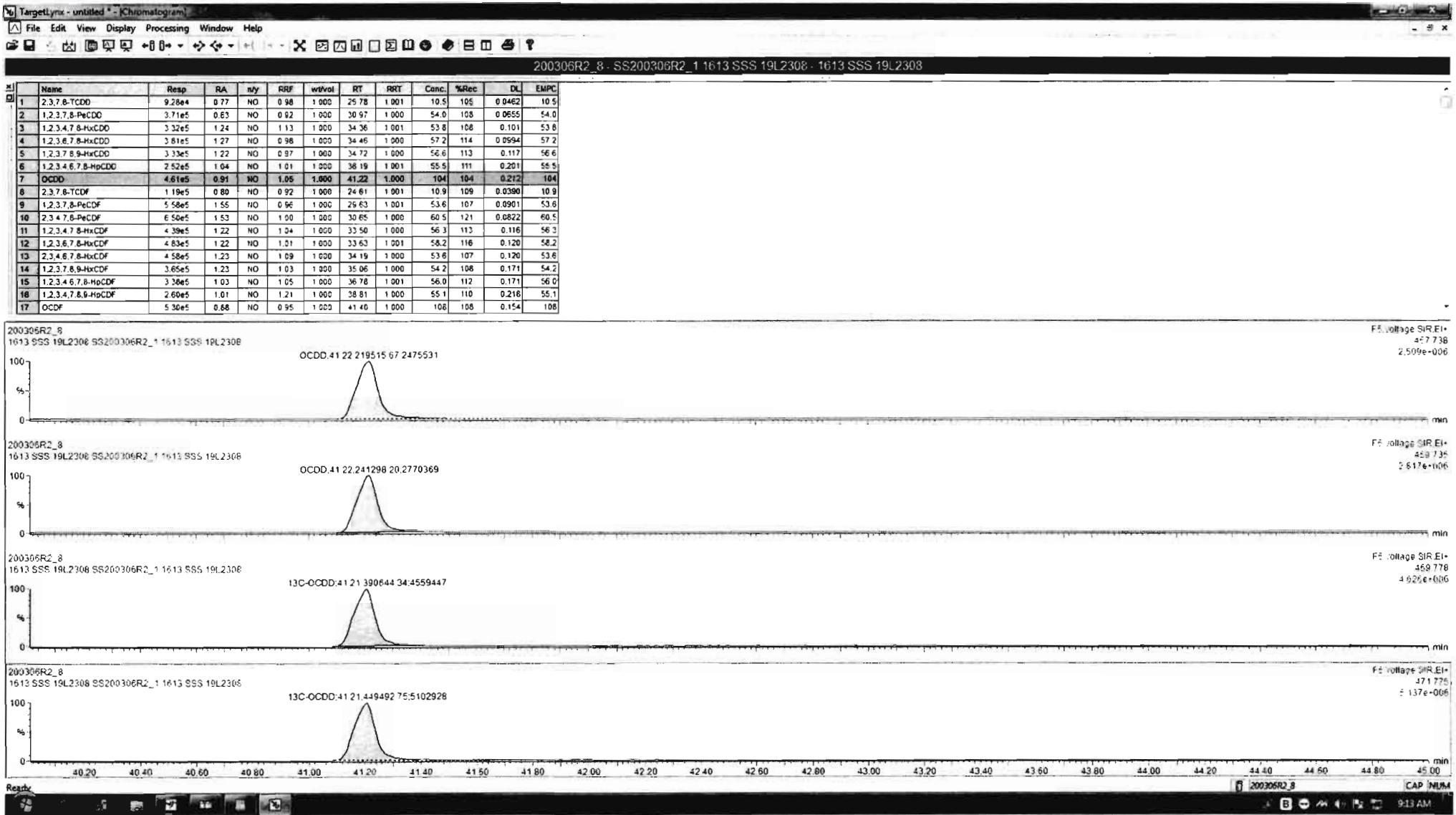
F4: Voltage SIR, EI+
437.814
2.321e+006

Dataset: Untitled

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Printed: Monday, March 09, 2020 09:03:37 Pacific Daylight Time

Name: 200306R2_8, Date: 06-Mar-2020, Time: 18:42:29, ID: SS200306R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308





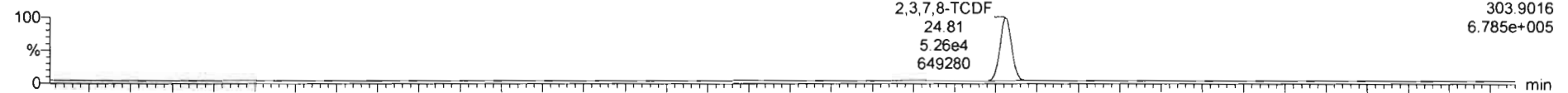
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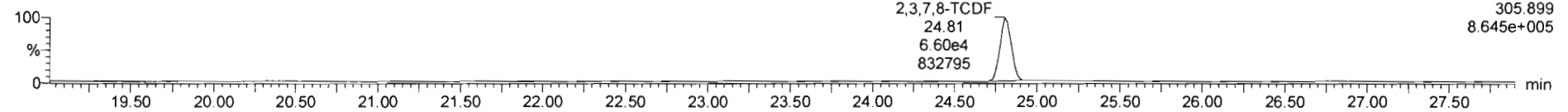
2,3,7,8-TCDF

200306R2_8



F1: Voltage SIR, EI+
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6.785e+005

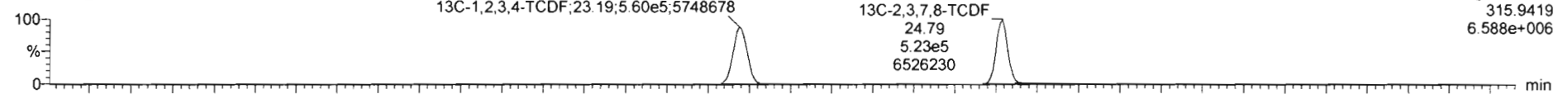
200306R2_8



F1: Voltage SIR, EI+
305.899
8.645e+005

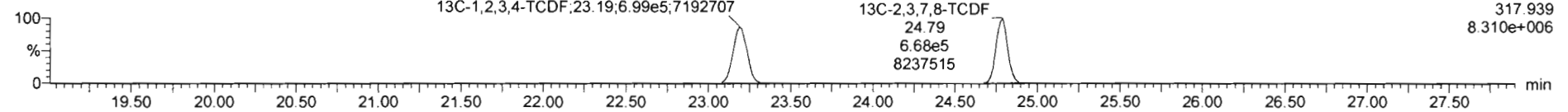
13C-2,3,7,8-TCDF

200306R2_8



F1: Voltage SIR, EI+
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6.588e+006

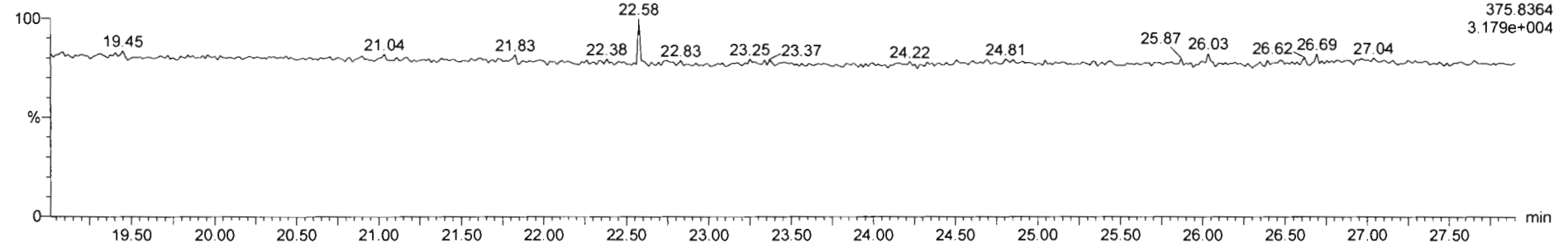
200306R2_8



F1: Voltage SIR, EI+
317.939
8.310e+006

DPE1

200306R2_8



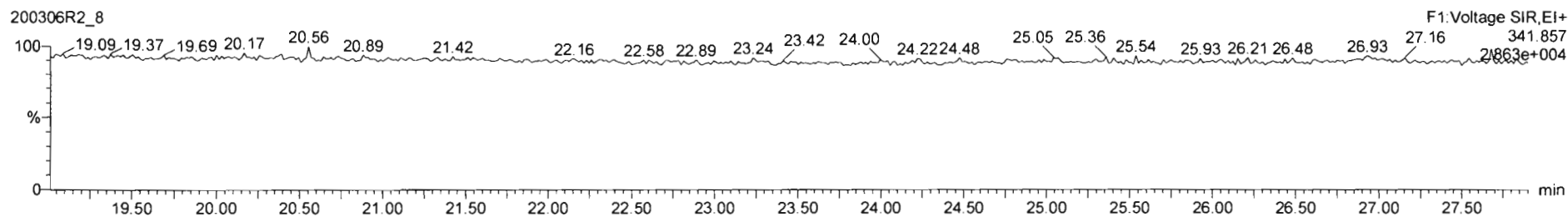
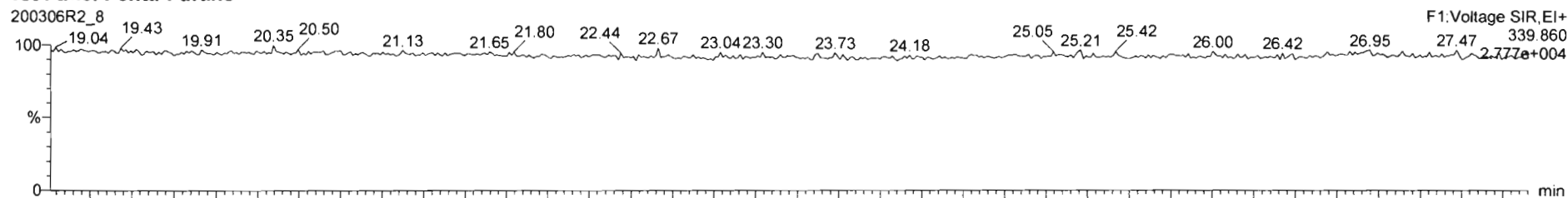
F1: Voltage SIR, EI+
375.8364
3.179e+004

Dataset: Untitled

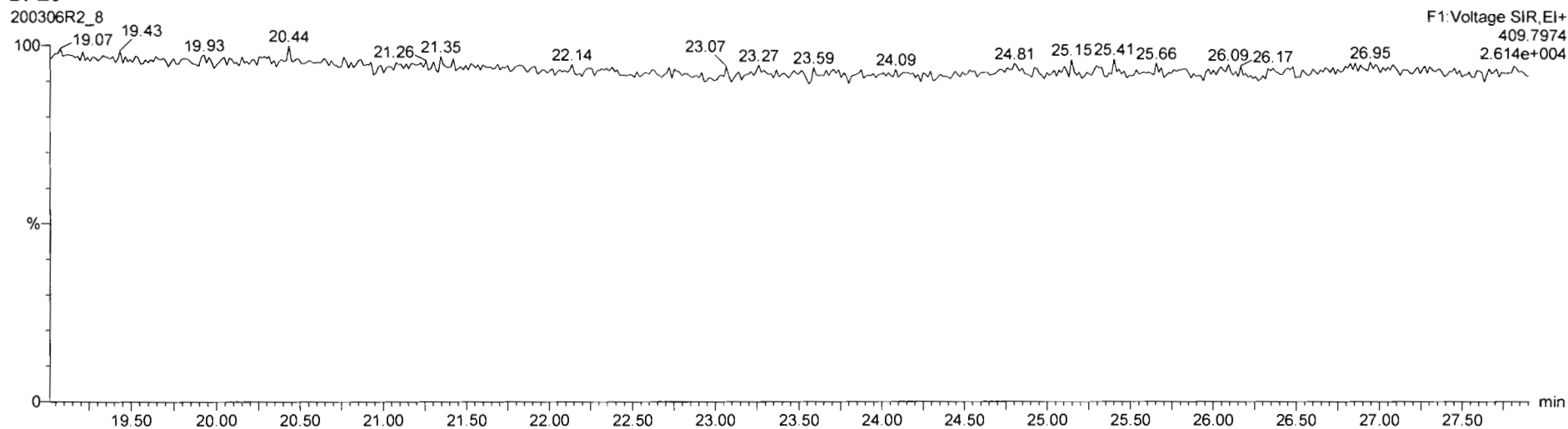
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Name: 200306R2_8, Date: 06-Mar-2020, Time: 18:42:29, ID: SS200306R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

1st Func. Penta-Furans



DPE6



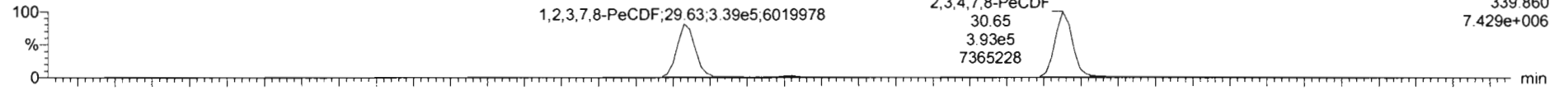
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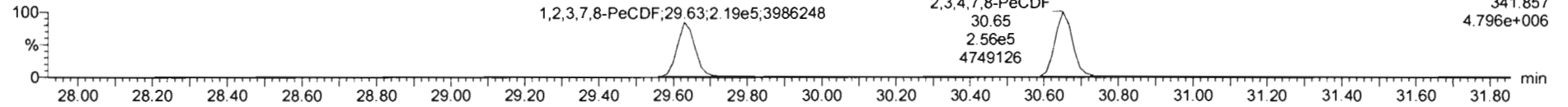
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1,2,3,7,8-PeCDF

200306R2_8

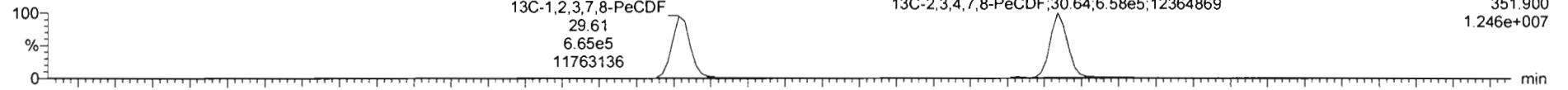


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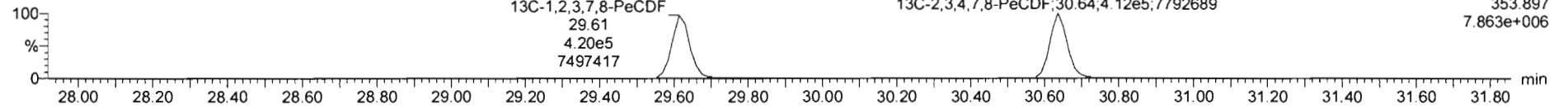


13C-1,2,3,7,8-PeCDF

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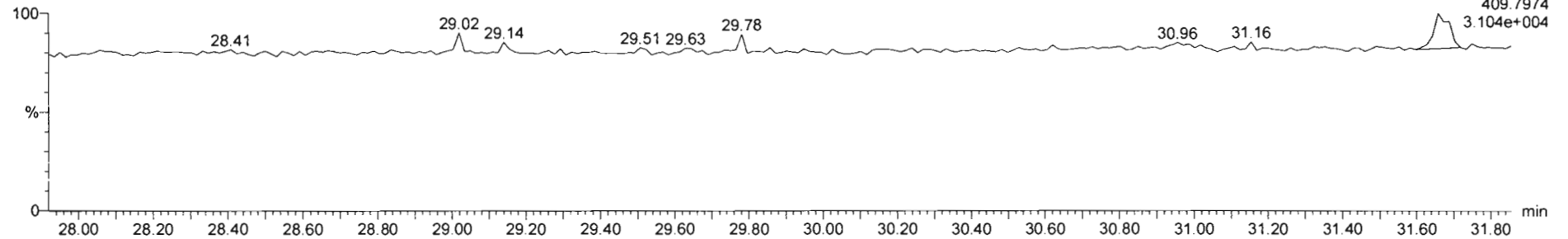


200306R2_8



DPE2

200306R2_8



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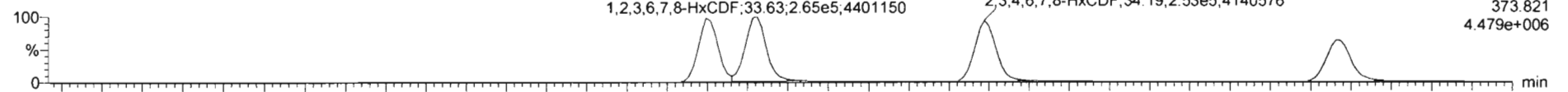
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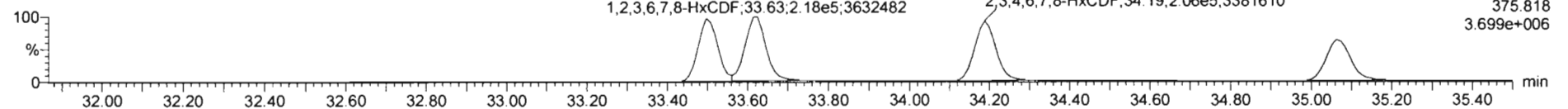
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1,2,3,4,7,8-HxCDF

200306R2_8

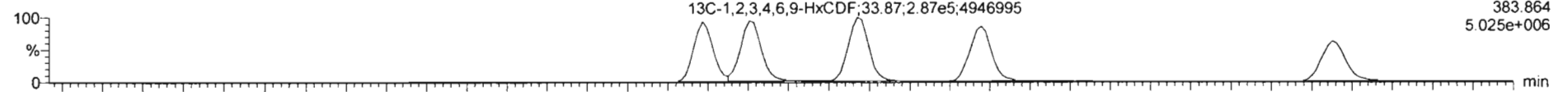


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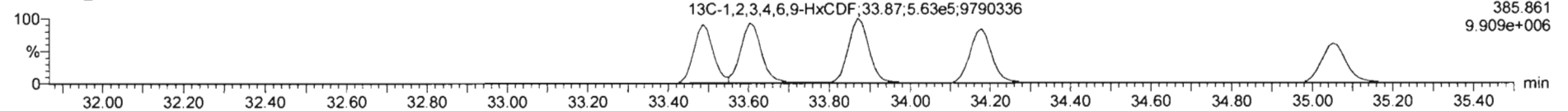


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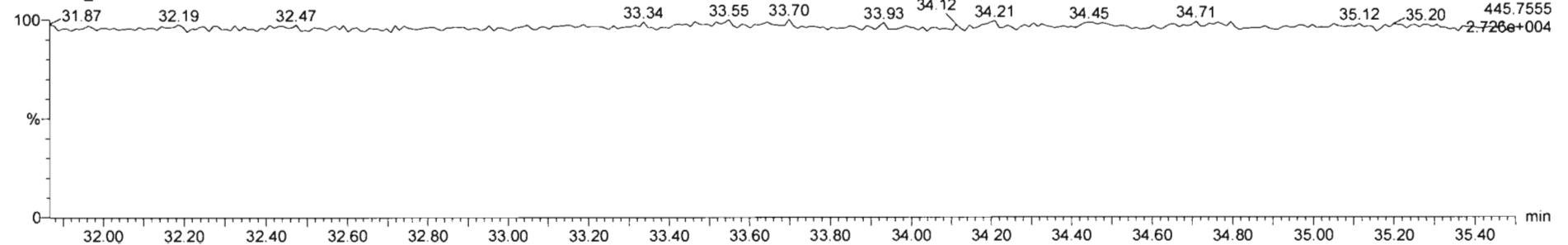


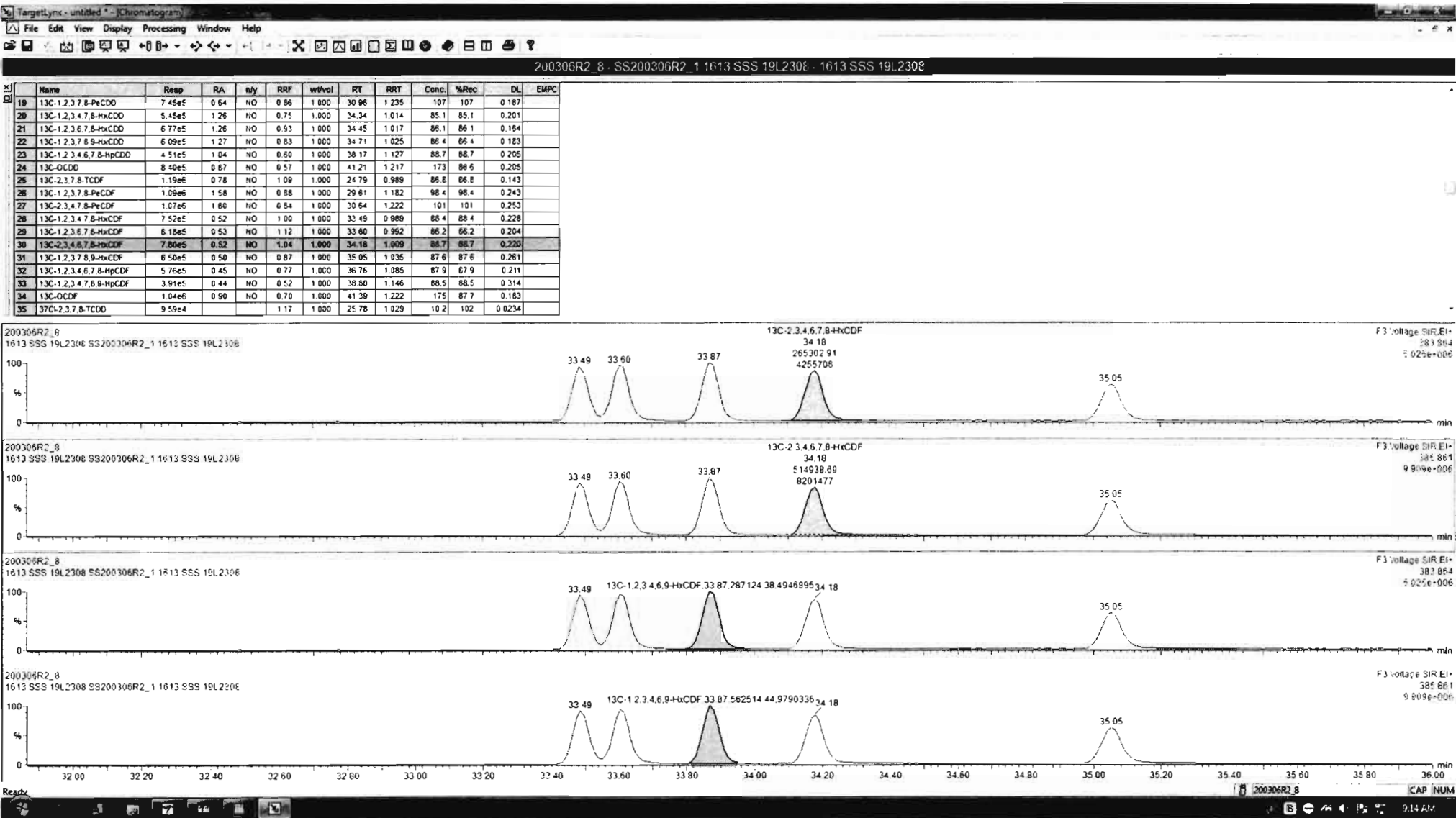
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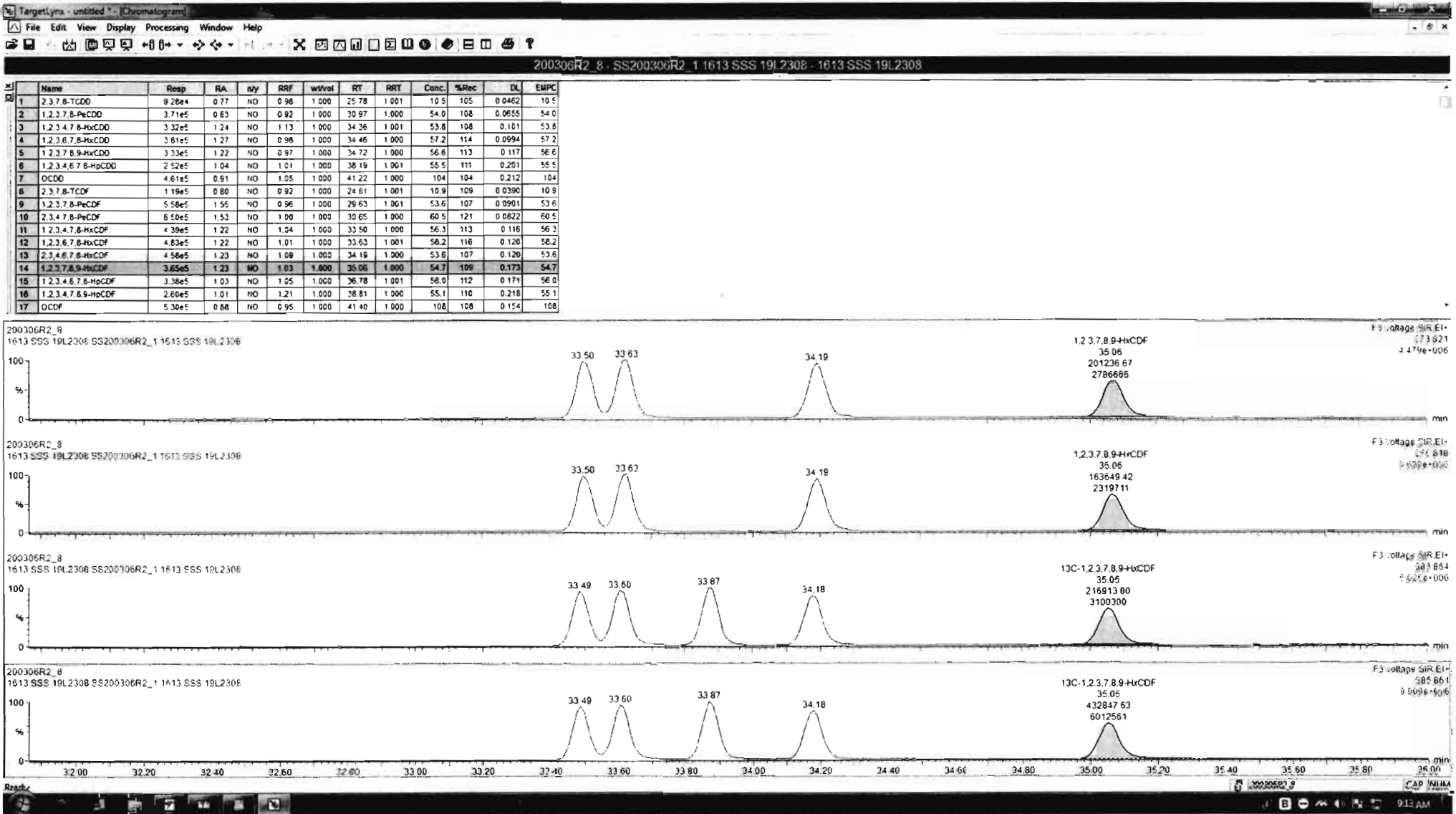


DPE3

200306R2_8







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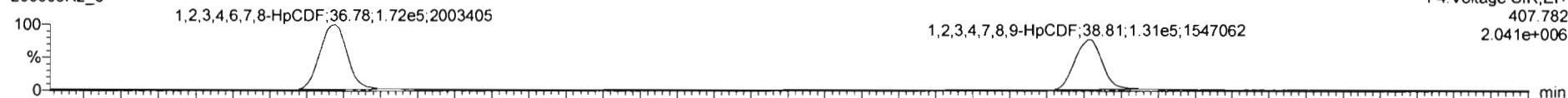
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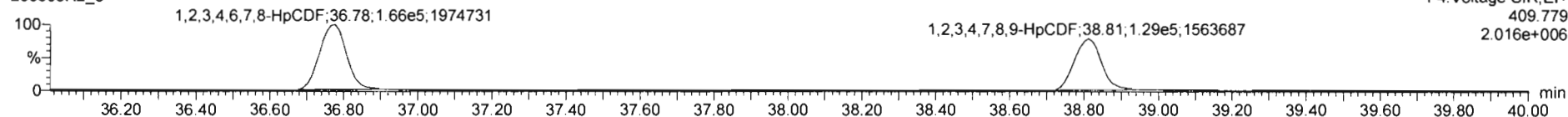
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1,2,3,4,6,7,8-HpCDF

200306R2_8

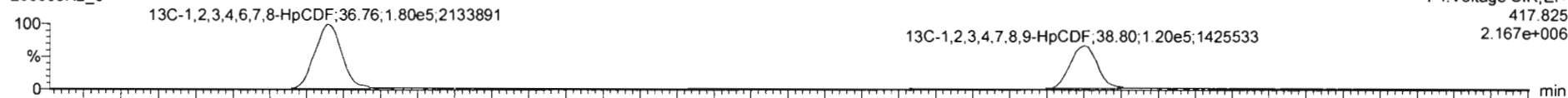


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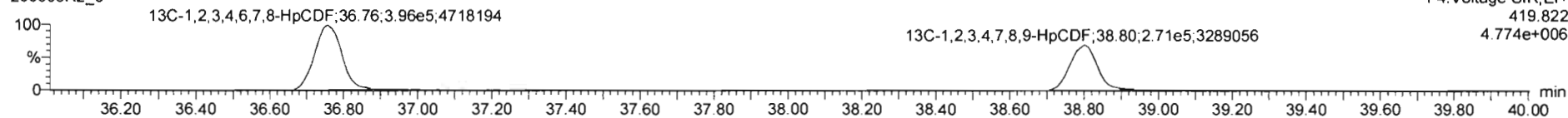


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200306R2_8

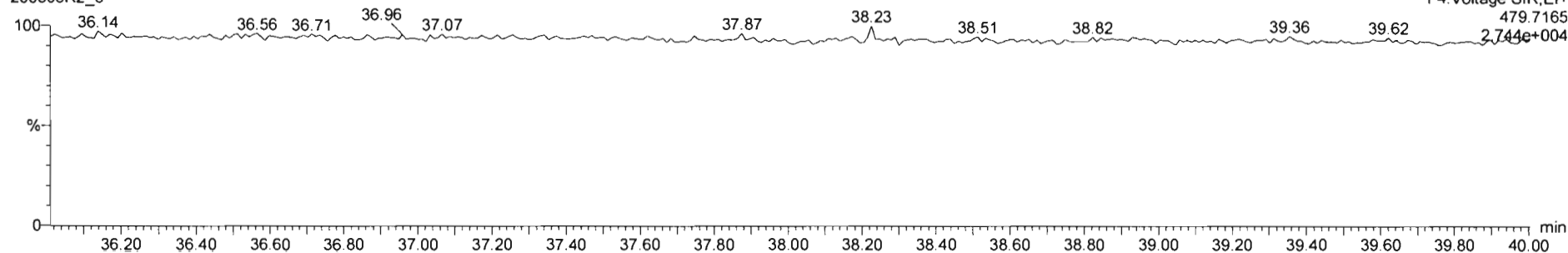


200306R2_8



DPE4

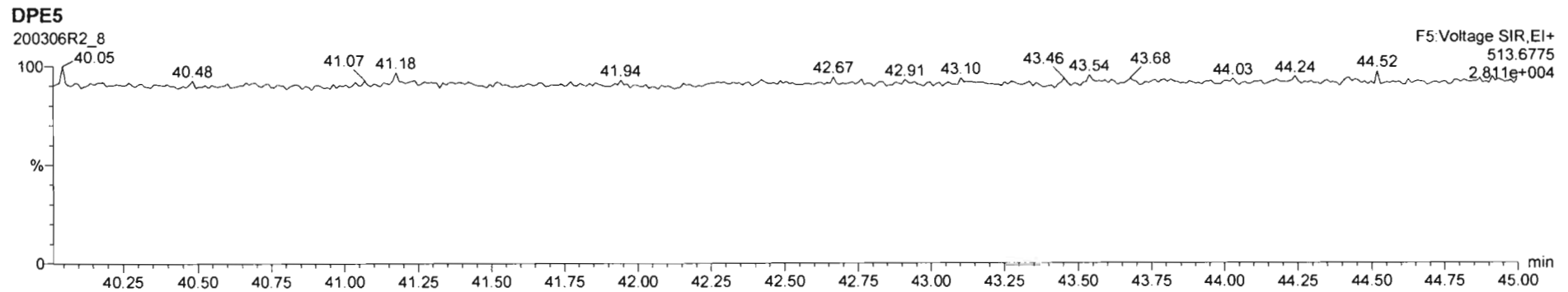
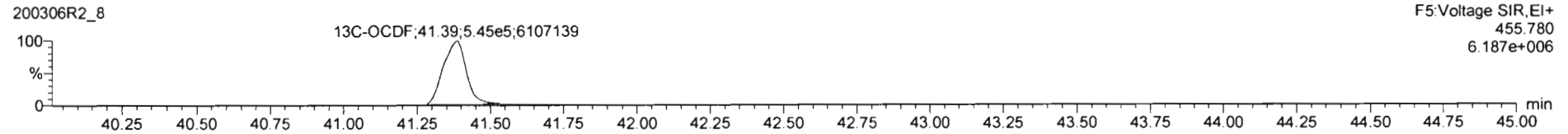
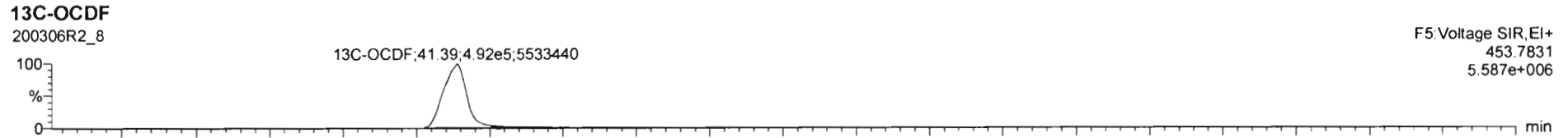
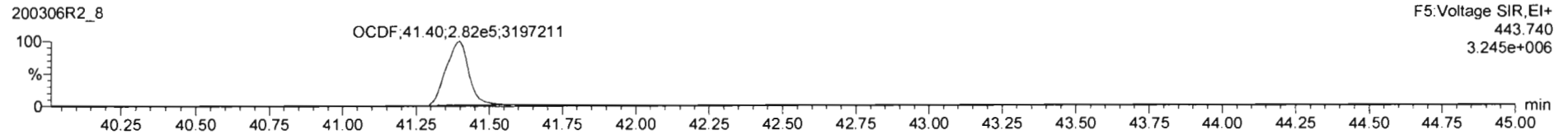
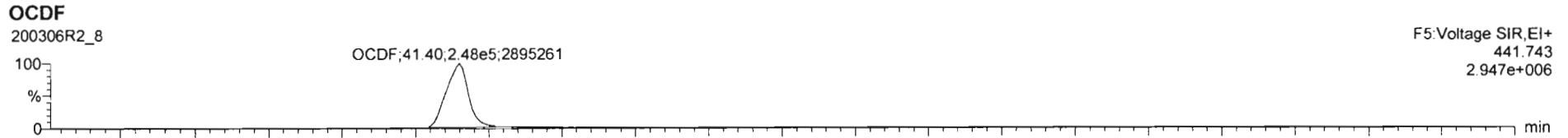
200306R2_8



Dataset: Untitled

Last Altered: Monday, March 09, 2020 09:01:52 Pacific Daylight Time
Printed: Monday, March 09, 2020 09:03:37 Pacific Daylight Time

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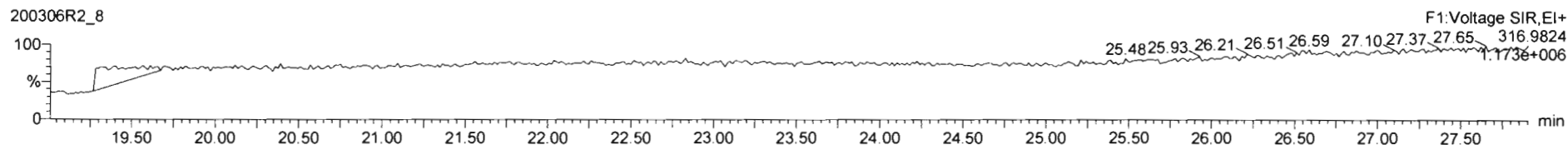


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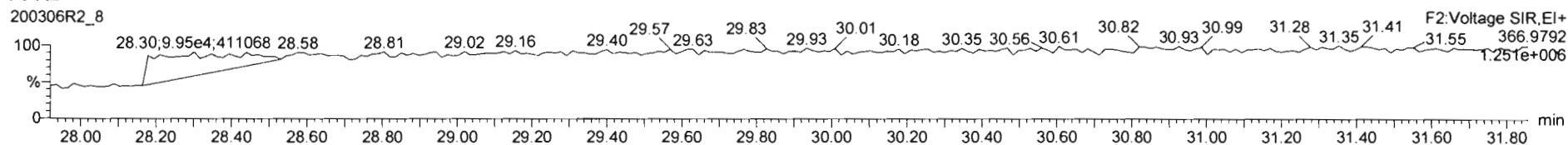
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Printed: Monday, March 09, 2020 09:03:37 Pacific Daylight Time

Name: 200306R2_8, Date: 06-Mar-2020, Time: 18:42:29, ID: SS200306R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

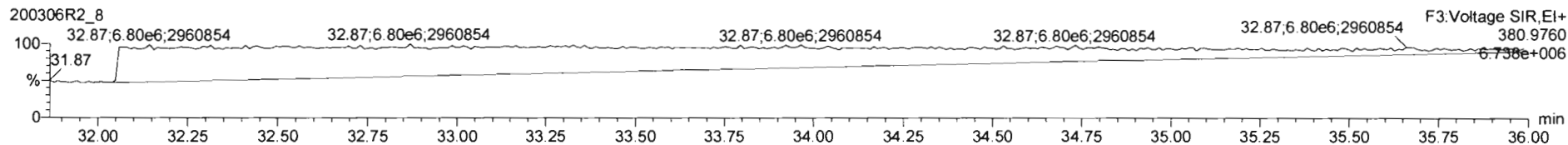
PFK1



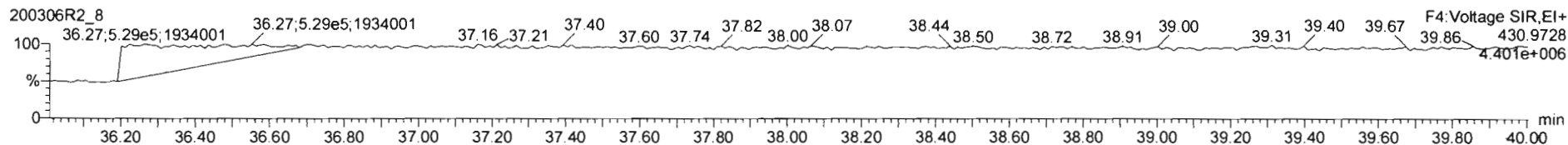
PFK2



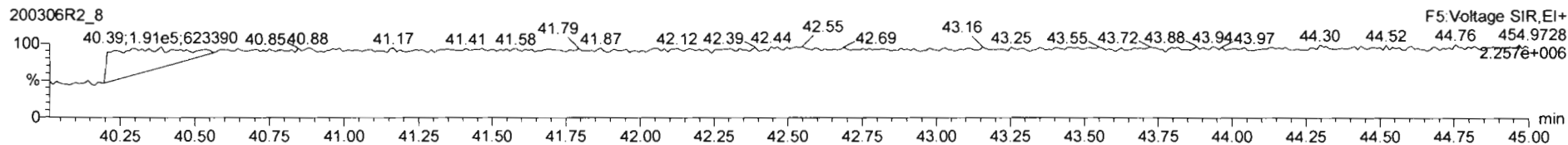
PFK3



PFK4

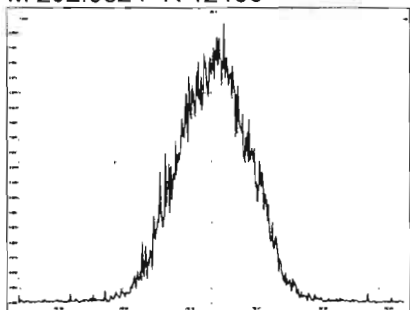


PFK5

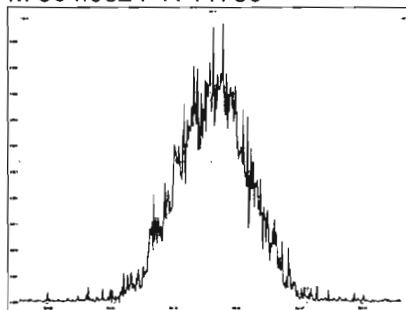


Printed: Saturday, March 07, 2020 02:06:12 Pacific Standard Time

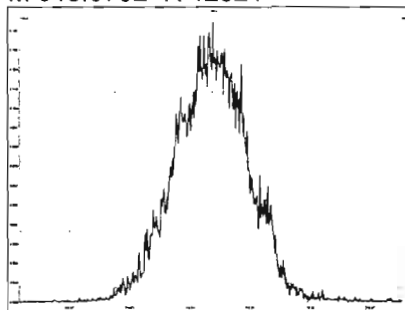
M 292.9824 R 12106



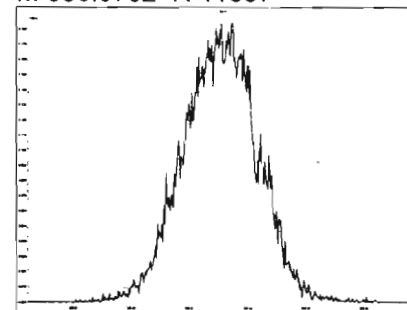
M 304.9824 R 11783



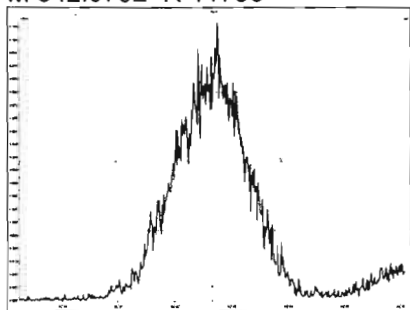
M 318.9792 R 12021



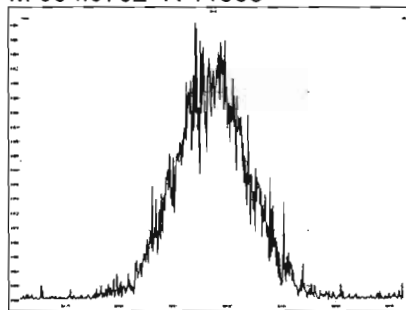
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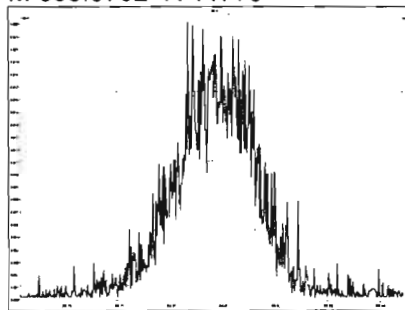
M 342.9792 R 11793



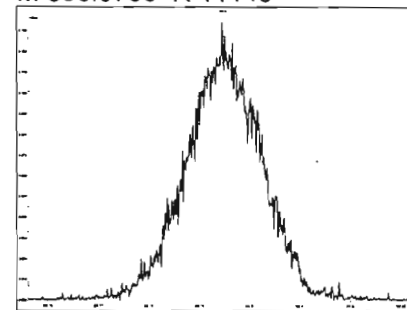
M 354.9792 R 11603



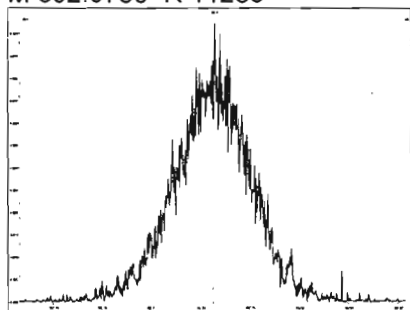
M 366.9792 R 11779



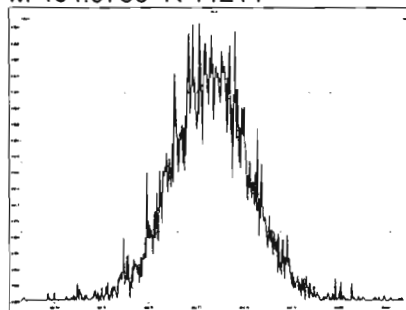
M 380.9760 R 11140



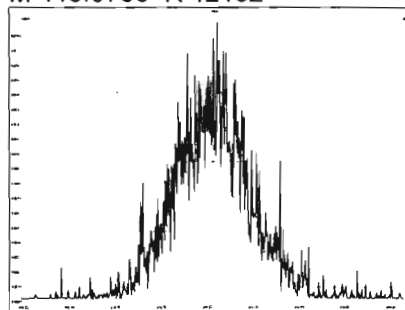
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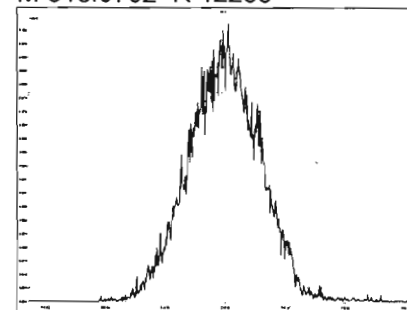
M 404.9760 R 11211



M 416.9760 R 12132

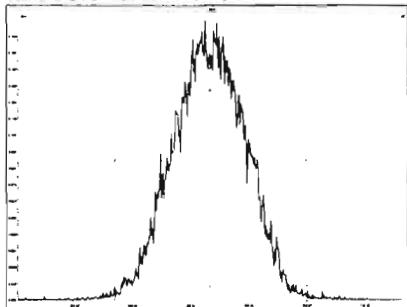


M 318.9792 R 12255

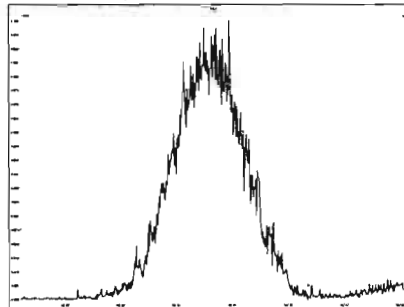


Printed: Saturday, March 07, 2020 02:06:12 Pacific Standard Time

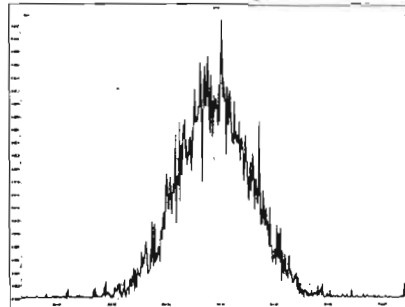
M 330.9792 R 11656



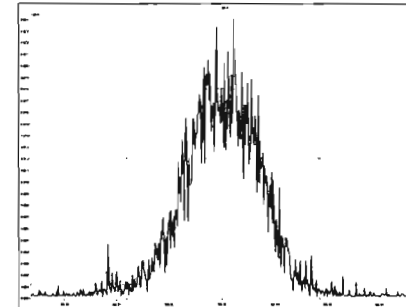
M 342.9792 R 12145



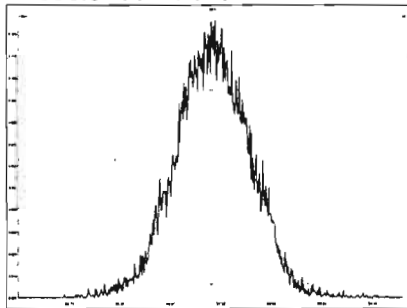
M 354.9792 R 11933



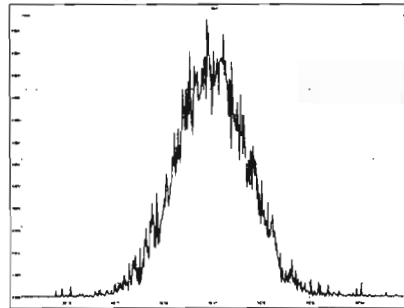
M 366.9792 R 12572



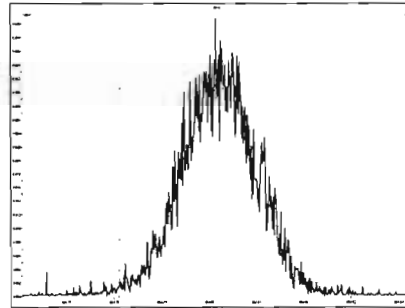
M 380.9760 R 11600



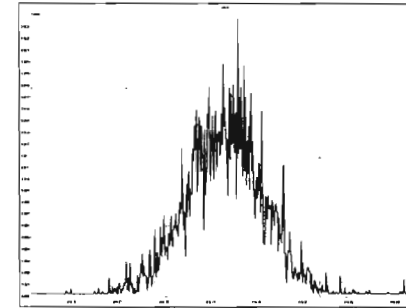
M 392.9760 R 12100



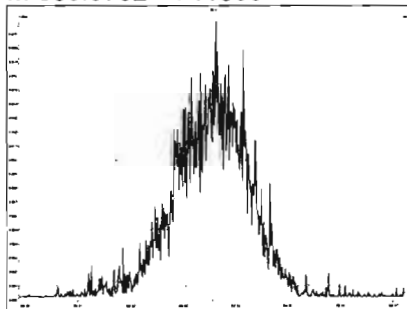
M 404.9760 R 11764



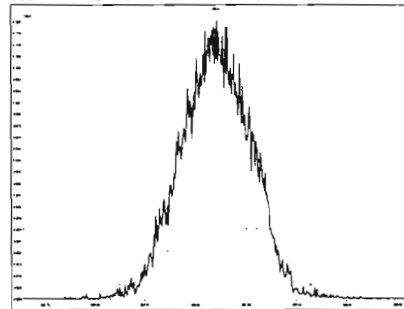
M 416.9760 R 11968



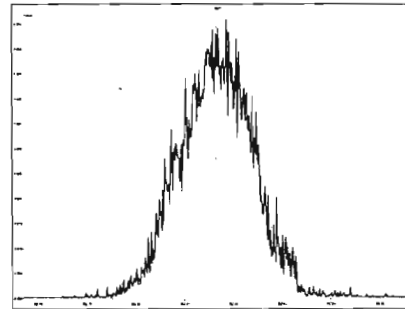
M 366.9792 R 11669



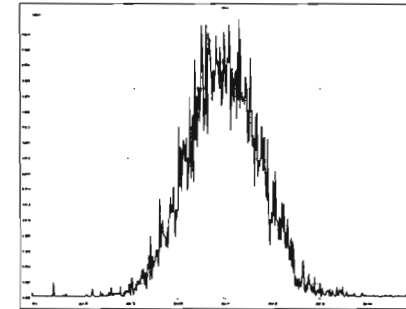
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M 392.9760 R 12090

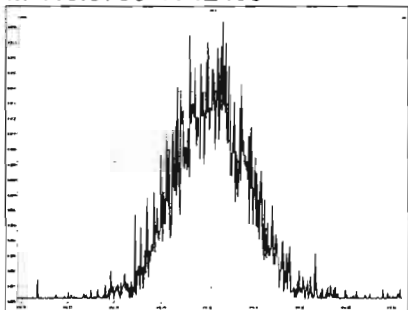


M 404.9760 R 12490

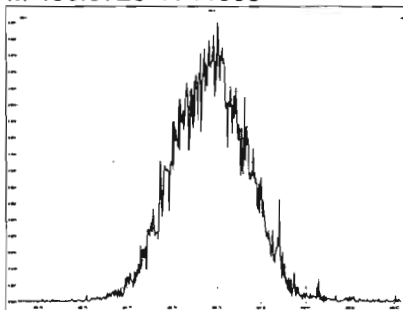


Printed: Saturday, March 07, 2020 02:06:12 Pacific Standard Time

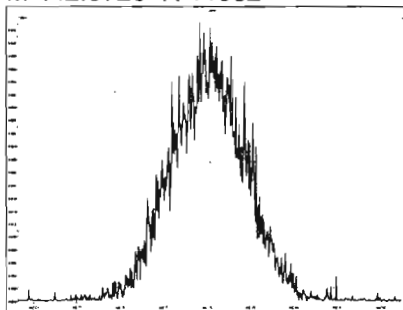
M 416.9760 R 12438



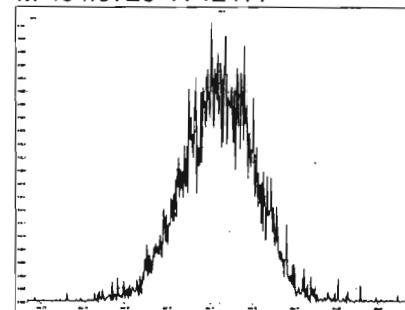
M 430.9728 R 11993



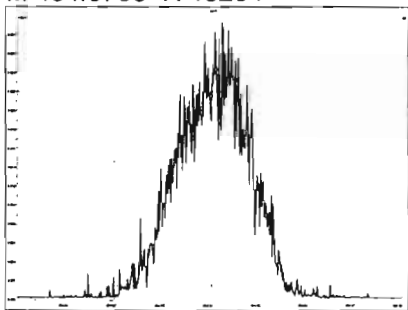
M 442.9728 R 11962



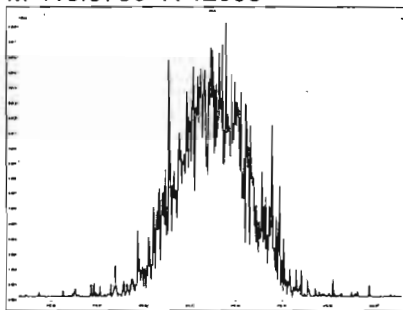
M 454.9728 R 12177



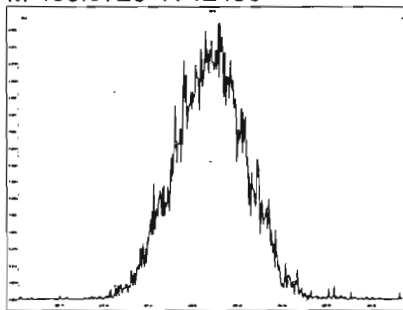
M 404.9760 R 13264



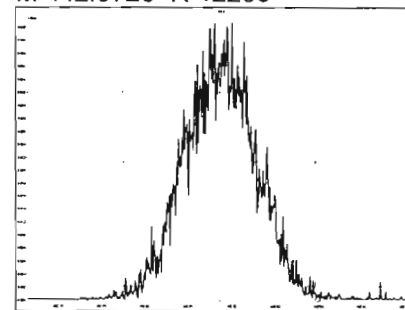
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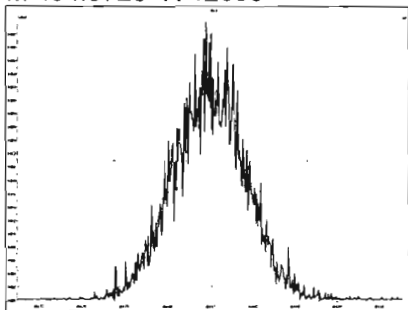
M 430.9728 R 12468



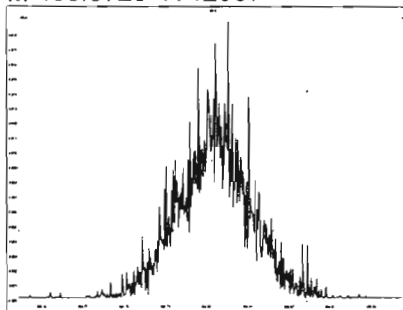
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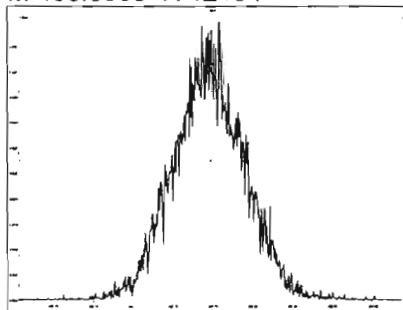
M 454.9728 R 12565



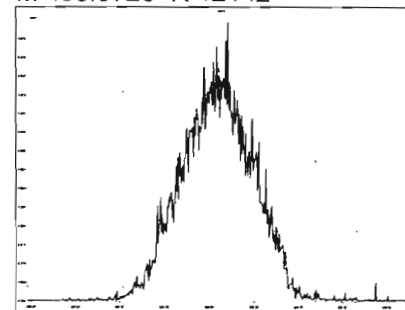
M 466.9728 R 12957



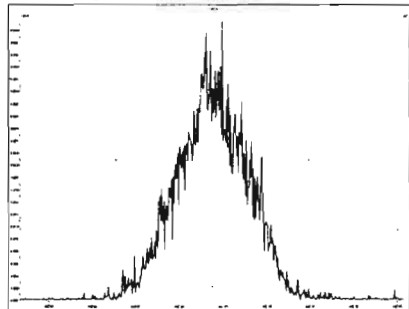
M 480.9696 R 12154



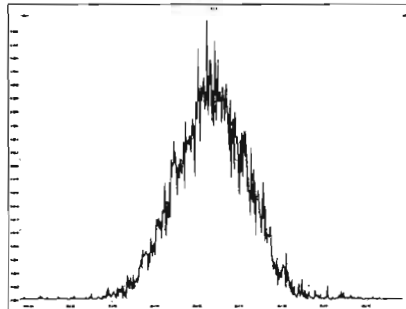
M 430.9728 R 12142



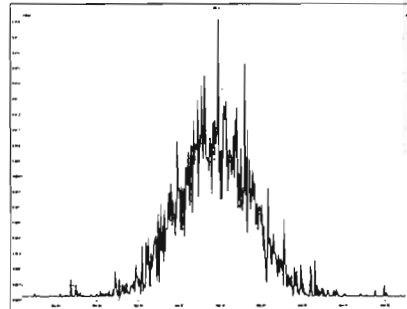
M 442.9728 R 12853



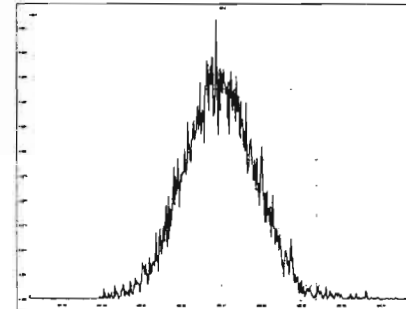
M 454.9728 R 12213



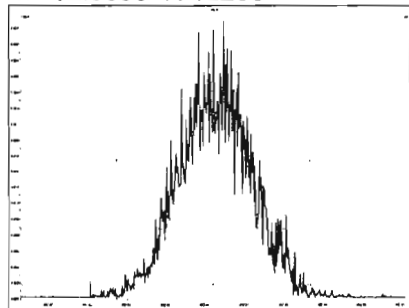
M 466.9728 R 12501



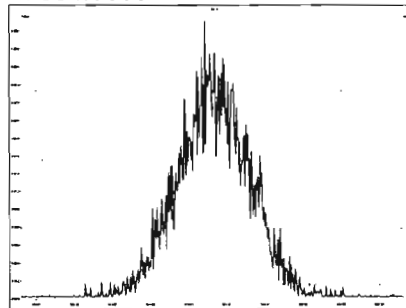
M 480.9696 R 12255



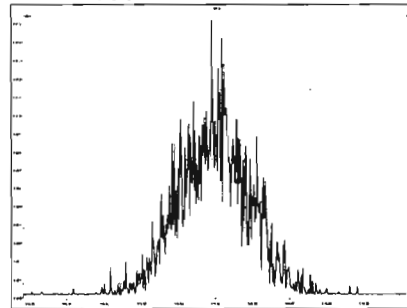
M 492.9696 R 12255



M 504.9696 R 12406



M 516.9697 R 12265



Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:35:39 Pacific Standard Time

DB 2/12/20 0102/12/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

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

Response Factor: 0.9819
RRF SD: 0.0791981, Relative SD: 8.06581
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	0.250	0.86	NO	17.23	3.04e2	1.39e5	0.223	0.876
2	2 200211D2_4	0.500	0.66	NO	17.22	6.08e2	1.13e5	0.549	1.08
3	3 200211D2_5	2.00	0.73	NO	17.23	2.63e3	1.30e5	2.06	1.01
4	4 200211D2_6	10.0	0.75	NO	17.23	1.15e4	1.25e5	9.33	0.916
5	5 200211D2_7	40.0	0.74	NO	17.23	5.76e4	1.51e5	39.0	0.957
6	6 200211D2_8	300	0.73	NO	17.23	4.81e5	1.52e5	321	1.05

Compound name: 13C-2,3,7,8-TCDF

Response Factor: 1.08271
RRF SD: 0.0939058, Relative SD: 8.67318
Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)
Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	100	0.72	NO	17.20	1.39e5	1.13e5	113	1.23
2	2 200211D2_4	100	0.71	NO	17.20	1.13e5	1.14e5	91.7	0.993
3	3 200211D2_5	100	0.71	NO	17.20	1.30e5	1.34e5	89.3	0.967
4	4 200211D2_6	100	0.75	NO	17.20	1.25e5	1.15e5	101	1.09
5	5 200211D2_7	100	0.71	NO	17.20	1.51e5	1.35e5	103	1.11
6	6 200211D2_8	100	0.72	NO	17.20	1.52e5	1.38e5	102	1.11

Vista Analytical Laboratory VG-9

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:35:39 Pacific Standard Time

Compound name: 13C-1,2,3,4-TCDF

Response Factor: 1

RRF SD: 7.02167e-017, Relative SD: 7.02167e-015

Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	100	0.70	NO	15.17	1.13e5	1.13e5	100	1.00
2	2 200211D2_4	100	0.71	NO	15.18	1.14e5	1.14e5	100	1.00
3	3 200211D2_5	100	0.74	NO	15.17	1.34e5	1.34e5	100	1.00
4	4 200211D2_6	100	0.72	NO	15.17	1.15e5	1.15e5	100	1.00
5	5 200211D2_7	100	0.73	NO	15.17	1.35e5	1.35e5	100	1.00
6	6 200211D2_8	100	0.73	NO	15.17	1.38e5	1.38e5	100	1.00

Compound name: 13C-1,2,3,4-TCDD

Response Factor: 1026.38

RRF SD: 123.841, Relative SD: 12.0658

Response type: External Std, Area

Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	100	0.79	NO	15.78	1.04e5		102	1040
2	2 200211D2_4	100	0.77	NO	15.78	8.57e4		83.5	857
3	3 200211D2_5	100	0.79	NO	15.78	9.44e4		92.0	944
4	4 200211D2_6	100	0.79	NO	15.78	9.87e4		96.1	987
5	5 200211D2_7	100	0.78	NO	15.78	1.13e5		110	1130
6	6 200211D2_8	100	0.78	NO	15.78	1.20e5		116	1200

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

Name: 200211D2_3, Date: 11-Feb-2020, Time: 21:00:36, ID: ST200211D2-1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

	# Name	Resp	RA	n/y	RRF M...	w/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	3.04e2	0.86	NO	0.982	1.000	17.23	0.22305	89.2	0.0931
2	2 13C-2,3,7,8-TCDF	1.39e5	0.72	NO	1.08	1.000	17.20	113.42	113	0.342
3	3 13C-1,2,3,4-TCDF	1.13e5	0.70	NO	1.00	1.000	15.17	100.00	100	0.371
4	4 13C-1,2,3,4-TCDD	1.04e5	0.79	NO	1030	1.000	15.78	101.65	102	0.291

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_4, Date: 11-Feb-2020, Time: 21:32:19, ID: ST200211D2-2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	6.08e2	0.66	NO	0.982	1.000	17.22	0.54947	110	0.147
2	2 13C-2,3,7,8-TCDF	1.13e5	0.71	NO	1.08	1.000	17.20	91.711	91.7	0.381
3	3 13C-1,2,3,4-TCDF	1.14e5	0.71	NO	1.00	1.000	15.18	100.00	100	0.412
4	4 13C-1,2,3,4-TCDD	8.57e4	0.77	NO	1030	1.000	15.78	83.528	83.5	0.324

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_5, Date: 11-Feb-2020, Time: 22:04:03, ID: ST200211D2-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	2.63e3	0.73	NO	0.982	1.000	17.23	2.0631	103	0.121
2	2 13C-2,3,7,8-TCDF	1.30e5	0.71	NO	1.08	1.000	17.20	89.279	89.3	0.292
3	3 13C-1,2,3,4-TCDF	1.34e5	0.74	NO	1.00	1.000	15.17	100.00	100	0.316
4	4 13C-1,2,3,4-TCDD	9.44e4	0.79	NO	1030	1.000	15.78	92.007	92.0	0.336

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_6, Date: 11-Feb-2020, Time: 22:35:45, ID: ST200211D2-4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	1.15e4	0.75	NO	0.982	1.000	17.23	9.3257	93.3	0.185
2	2 13C-2,3,7,8-TCDF	1.25e5	0.75	NO	1.08	1.000	17.20	100.76	101	0.364
3	3 13C-1,2,3,4-TCDF	1.15e5	0.72	NO	1.00	1.000	15.17	100.00	100	0.394
4	4 13C-1,2,3,4-TCDD	9.87e4	0.79	NO	1030	1.000	15.78	96.149	96.1	0.331

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_7, Date: 11-Feb-2020, Time: 23:07:28, ID: ST200211D2-5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	5.76e4	0.74	NO	0.982	1.000	17.23	38.981	97.5	0.158
2	2 13C-2,3,7,8-TCDF	1.51e5	0.71	NO	1.08	1.000	17.20	102.61	103	0.300
3	3 13C-1,2,3,4-TCDF	1.35e5	0.73	NO	1.00	1.000	15.17	100.00	100	0.325
4	4 13C-1,2,3,4-TCDD	1.13e5	0.78	NO	1030	1.000	15.78	110.19	110	0.311

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

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Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_8, Date: 11-Feb-2020, Time: 23:39:11, ID: ST200211D2-6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	4.81e5	0.73	NO	0.982	1.000	17.23	321.06	107	0.243
2	2 13C-2,3,7,8-TCDF	1.52e5	0.72	NO	1.08	1.000	17.20	102.22	102	0.295
3	3 13C-1,2,3,4-TCDF	1.38e5	0.73	NO	1.00	1.000	15.17	100.00	100	0.319
4	4 13C-1,2,3,4-TCDD	1.20e5	0.78	NO	1030	1.000	15.78	116.47	116	0.322

Dataset: Untitled

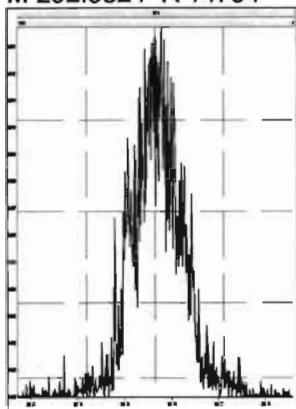
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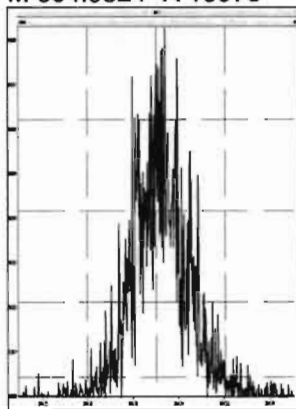
Compound name: 2,3,7,8-TCDF

	Name	ID	Acq.Date	Acq.Time
1	200211D2_1	SOLVENT BLANK	11-Feb-20	19:58:43
2	200211D2_2	CP200211D2-1 DB-225 CPSM	11-Feb-20	20:28:53
3	200211D2_3	ST200211D2-1 1613 CS0 19L2302	11-Feb-20	21:00:36
4	200211D2_4	ST200211D2-2 1613 CS1 19L2303	11-Feb-20	21:32:19
5	200211D2_5	ST200211D2-3 1613 CS2 19L2304	11-Feb-20	22:04:03
6	200211D2_6	ST200211D2-4 1613 CS3 19L2305	11-Feb-20	22:35:45
7	200211D2_7	ST200211D2-5 1613 CS4 19L2306	11-Feb-20	23:07:28
8	200211D2_8	ST200211D2-6 1613 CS5 19L2307	11-Feb-20	23:39:11
9	200211D2_9	SOLVENT BLANK	12-Feb-20	00:10:54
10	200211D2_10	SS200211D2-1 1613 SSS 19L2308	12-Feb-20	00:42:33
11	200211D2_11	SOLVENT BLANK	12-Feb-20	01:14:15
12	200211D2_12	1903740-08RE1 PDI-097SC-B-06-08-191017 ...	12-Feb-20	01:45:58
13	200211D2_13	1903740-07RE1 PDI-097SC-B-04-06-191017 ...	12-Feb-20	02:17:39
14	200211D2_14	1903740-06RE1 PDI-097SC-B-02-04-191017 ...	12-Feb-20	02:49:21
15	200211D2_15	1903740-01RE1 PDI-031SC-B-00-02-191017 ...	12-Feb-20	03:21:03
16	200211D2_16	1903740-05RE1 PDI-097SC-B-00-02-191017 ...	12-Feb-20	03:52:45

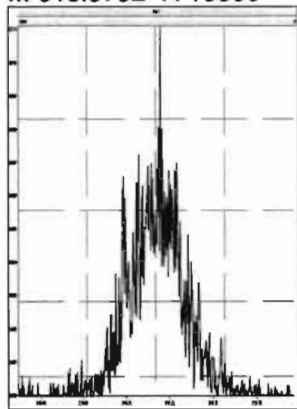
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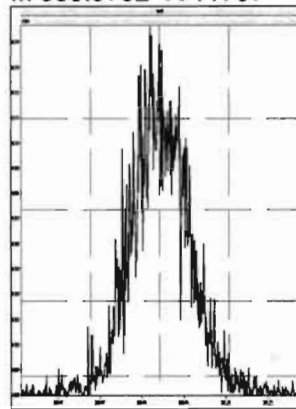
M 304.9824 R 15978



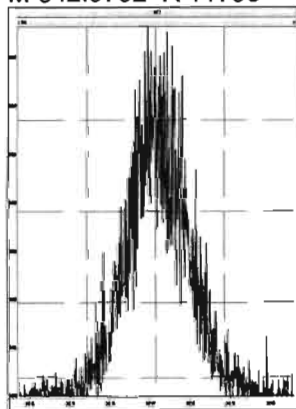
M 318.9792 R 15503



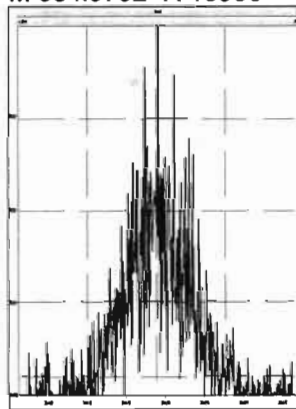
M 330.9792 R 11737



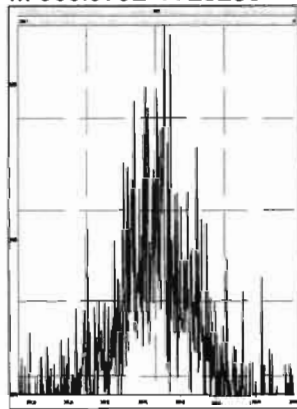
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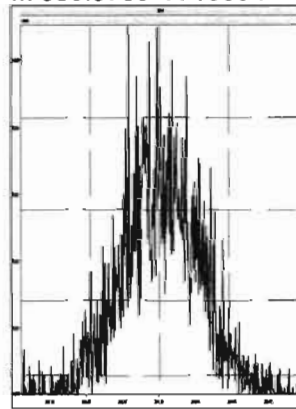
M 354.9792 R 15966

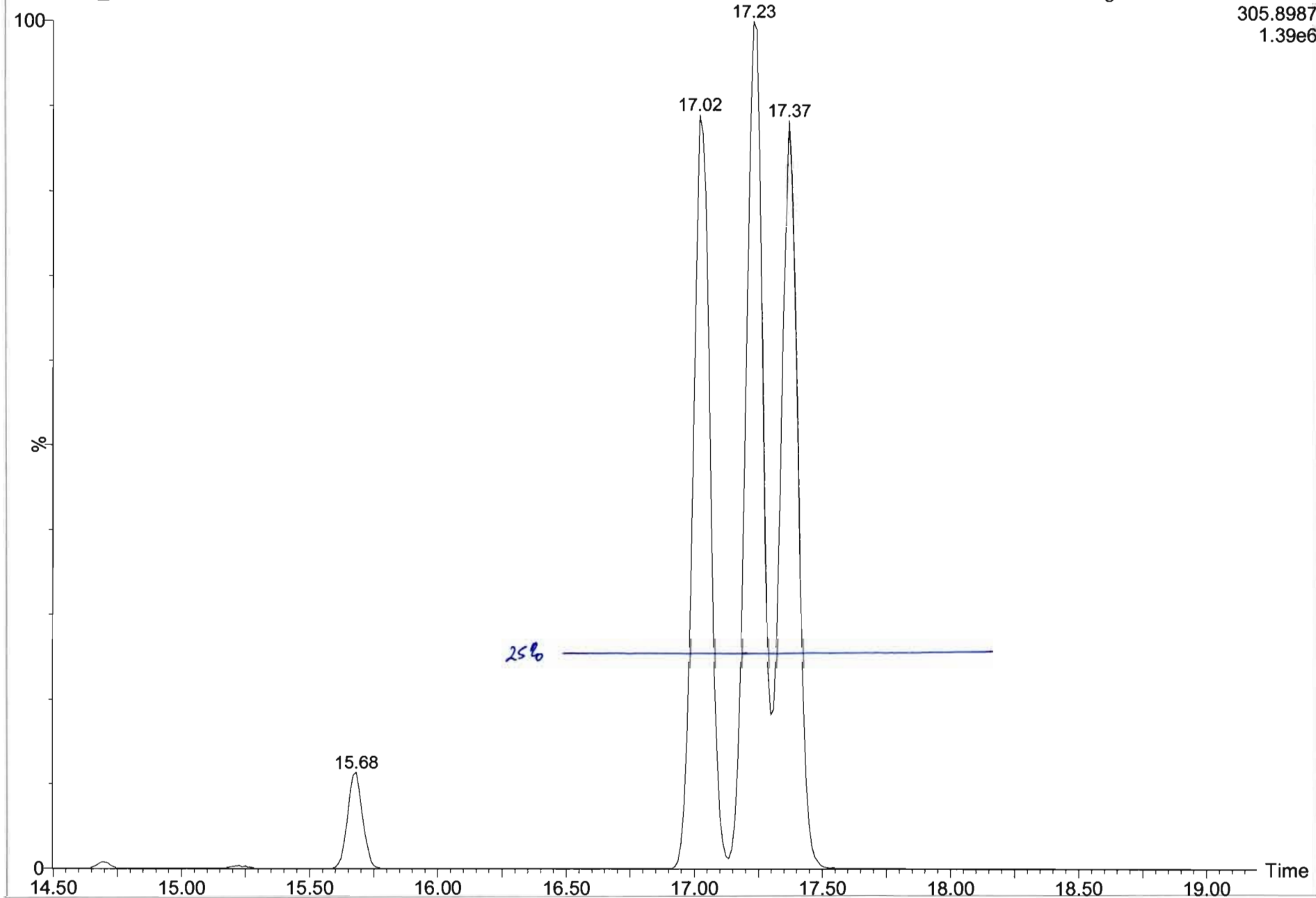


M 366.9792 R 28256



M 380.9760 R 13094





Dataset: U:\VG7.PRO\Results\200211D2\200111D2_2.qld

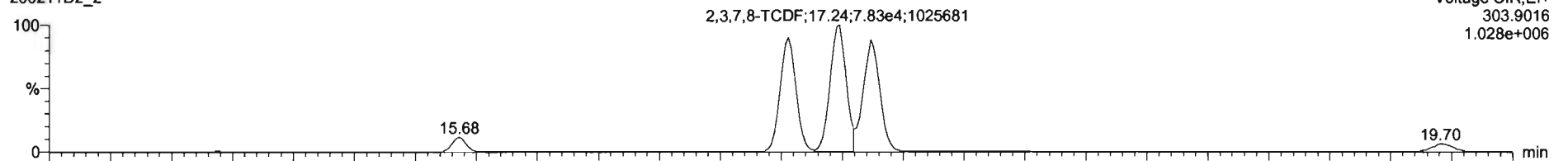
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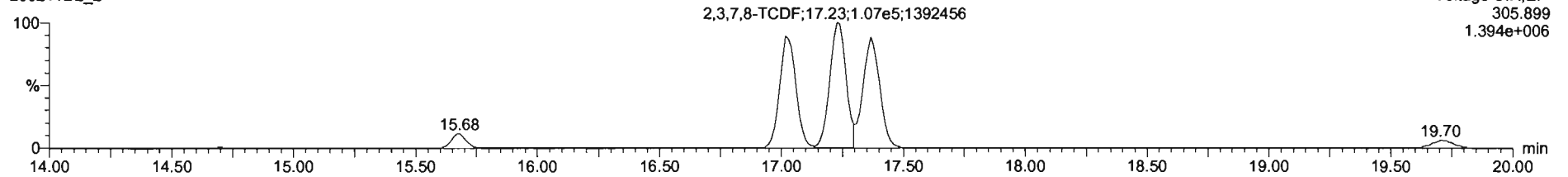
2,3,7,8-TCDF

200211D2_2



Voltage SIR,EI+
303.9016
1.028e+006

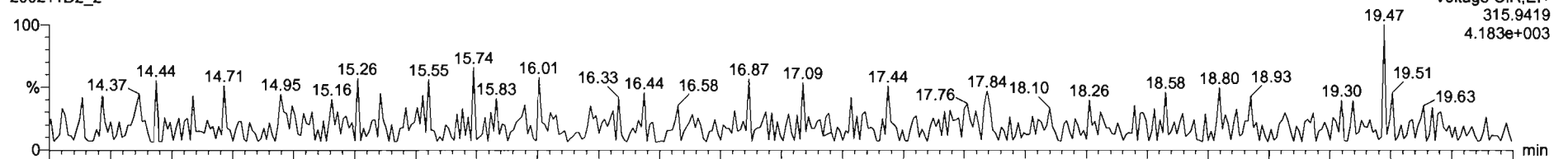
200211D2_2



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1.394e+006

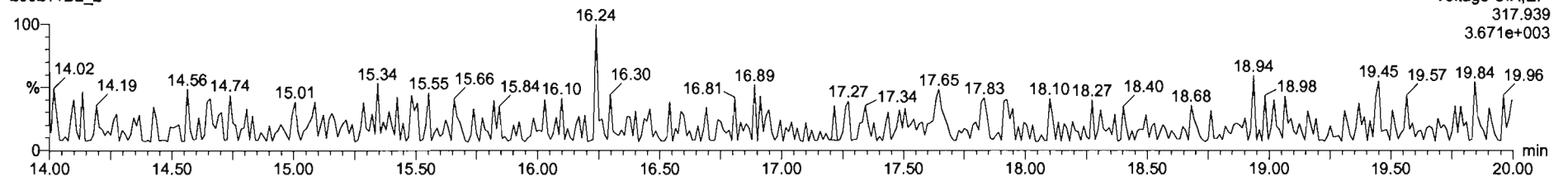
13C-2,3,7,8-TCDF

200211D2_2



Voltage SIR,EI+
315.9419
4.183e+003

200211D2_2



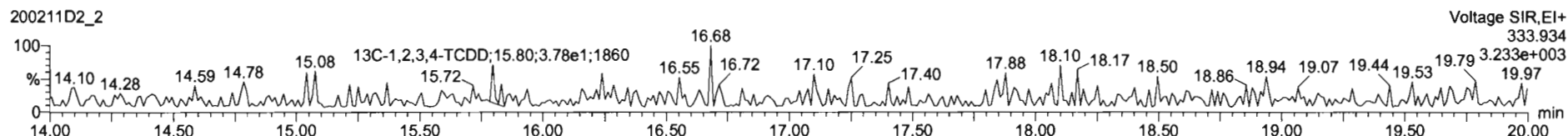
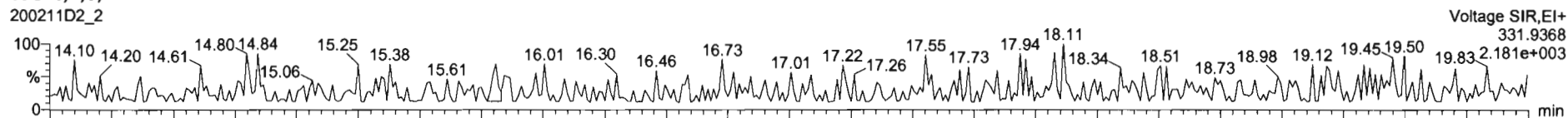
Voltage SIR,EI+
317.939
3.671e+003

Dataset: U:\VG7.PRO\Results\200211D2\200111D2_2.qld

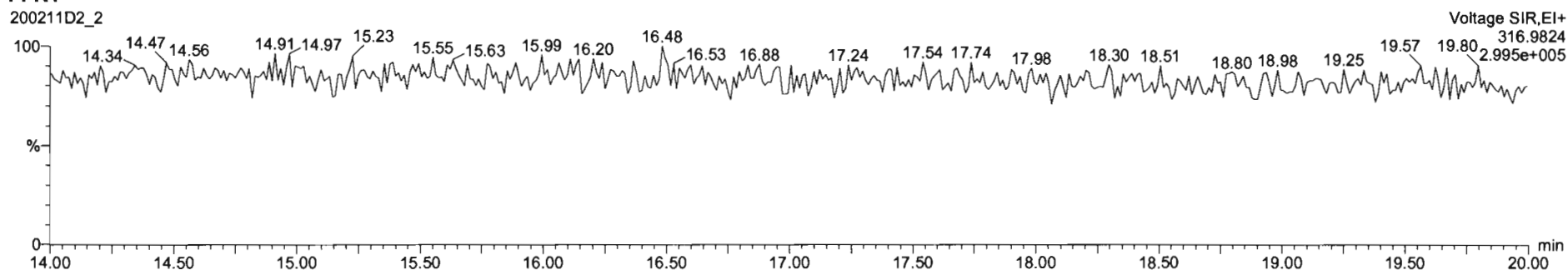
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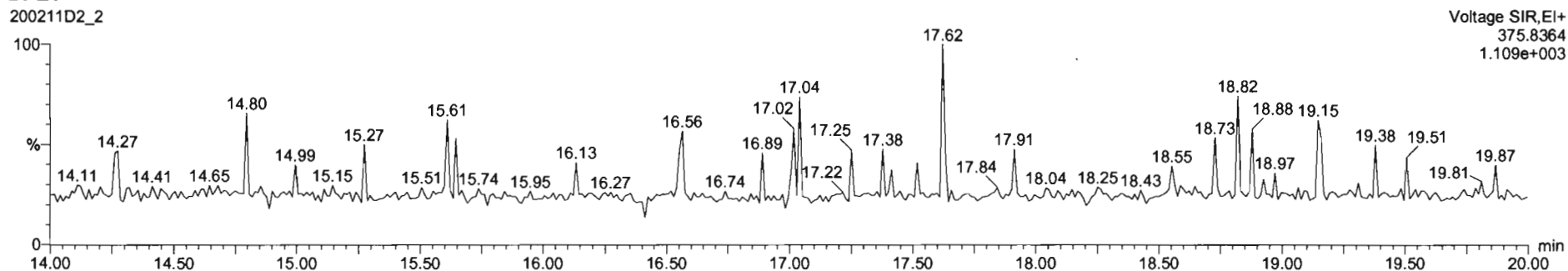
13C-1,2,3,4-TCDD



PFK1



DPE1



Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

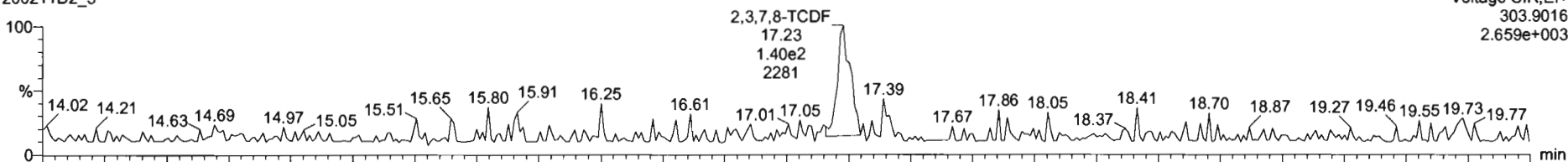
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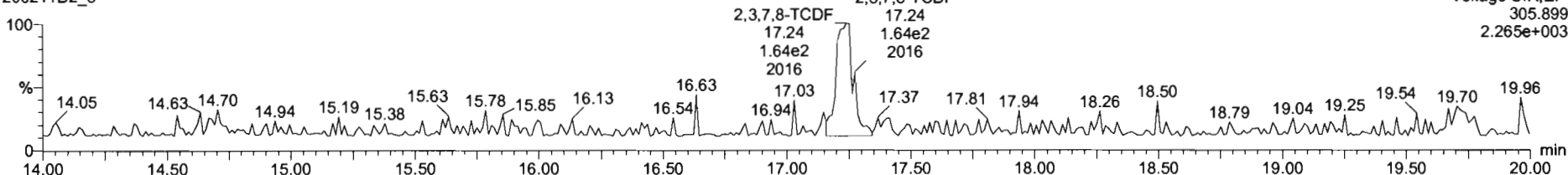
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2,3,7,8-TCDF

200211D2_3

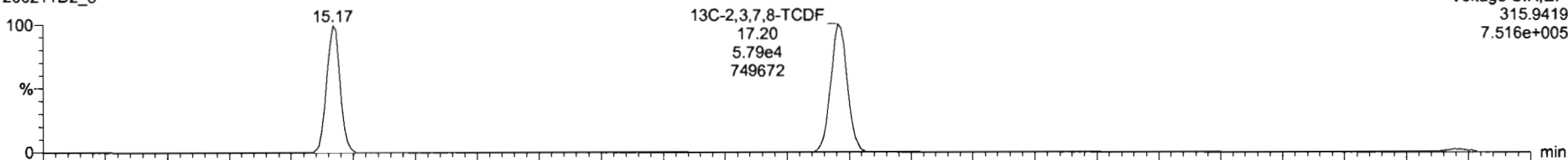


200211D2_3

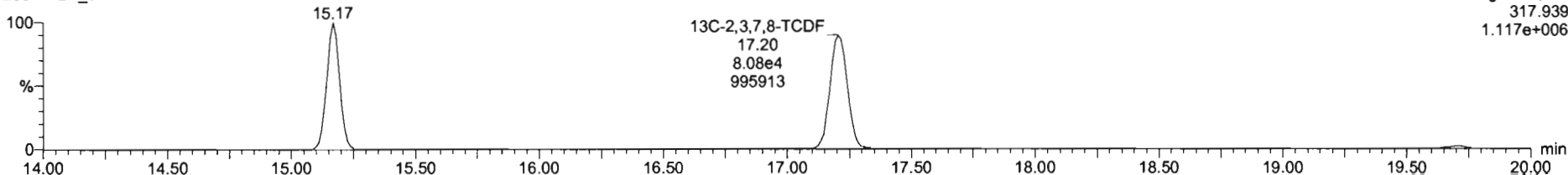


13C-2,3,7,8-TCDF

200211D2_3



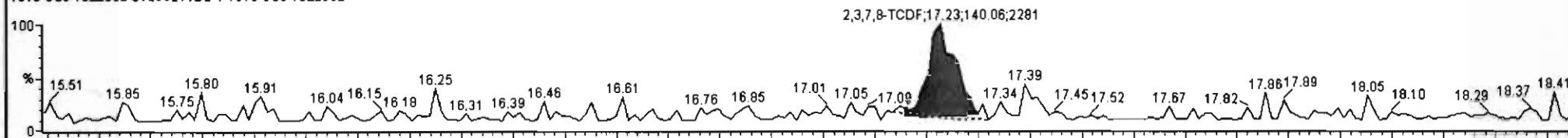
200211D2_3



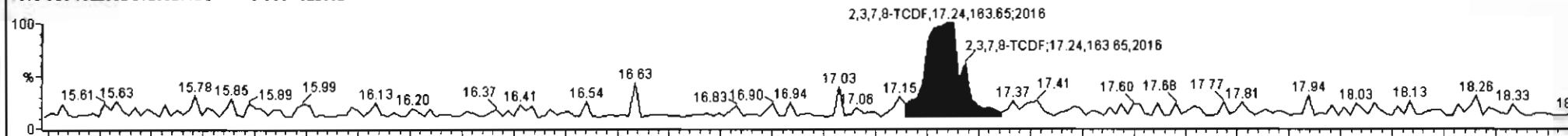
Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDF	3.04e2	0.86	NO	0.98	1.000	17.23	1.001	0.223	89.2	0.0831	0.223
2 13C-2,3,7,8-TCDF	1.39e5	0.72	NO	1.08	1.000	17.20	1.134	113	113	0.342	
3 13C-1,2,3,4-TCDF	1.13e5	0.70	NO	1.00	1.000	15.17	1.000	100	100	0.371	
4 13C-1,2,3,4-TCDF	1.04e5	0.79	NO	1026.38	1.000	15.78	0.000	102	102	0.291	
5 PFOS					1.000						
6 DPE1					1.000						

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

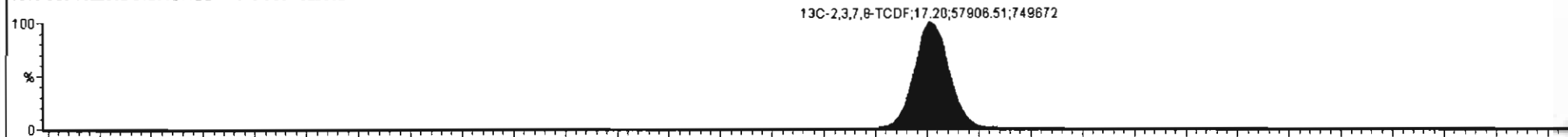
200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



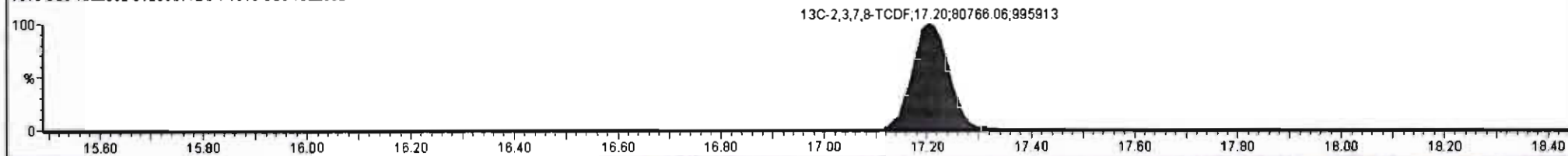
200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



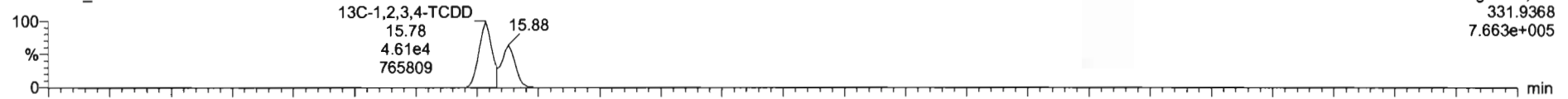
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

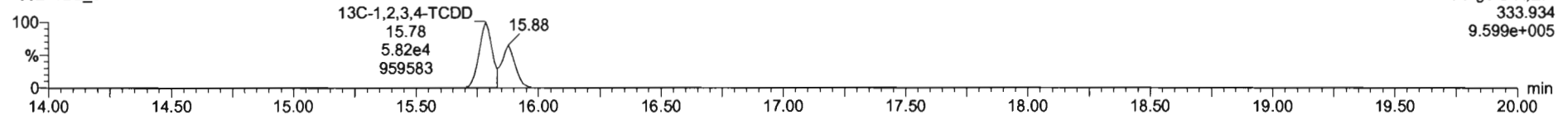
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13C-1,2,3,4-TCDD

200211D2_3

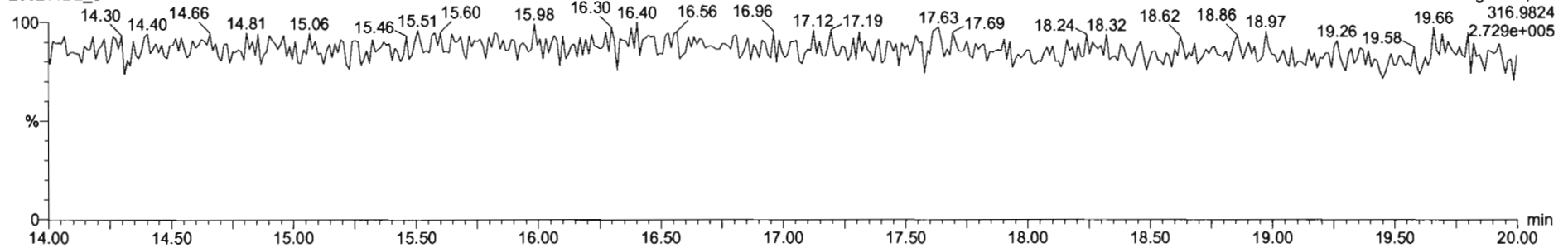


200211D2_3



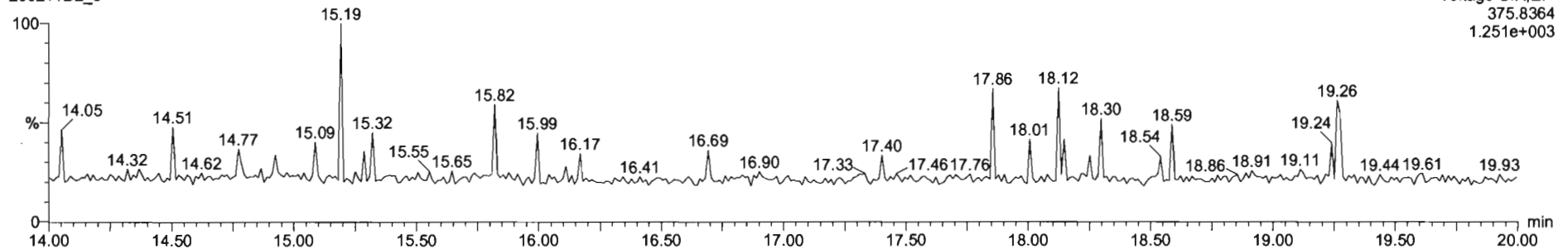
PFK1

200211D2_3



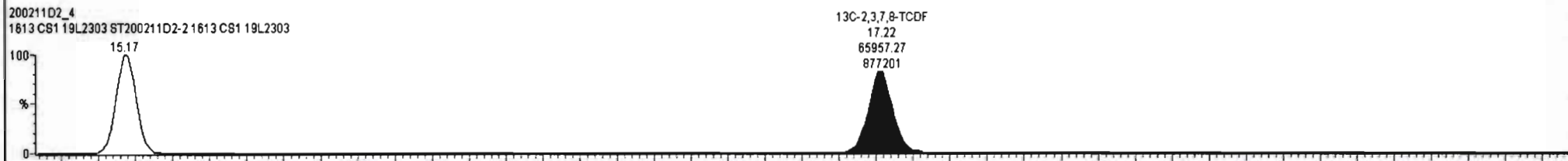
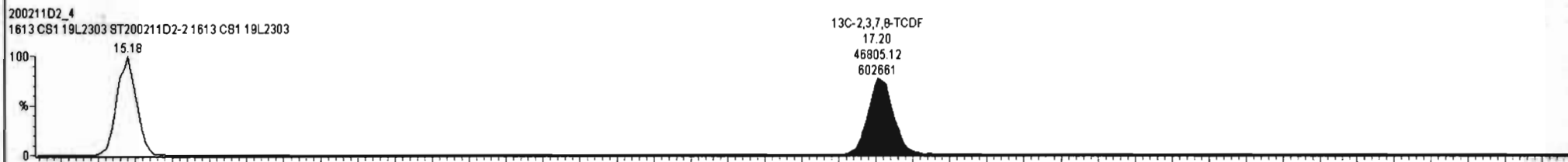
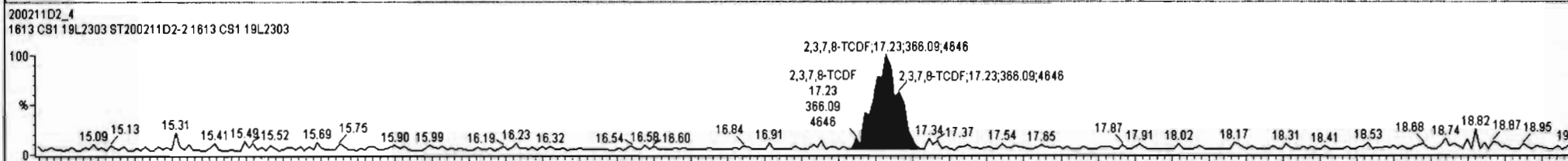
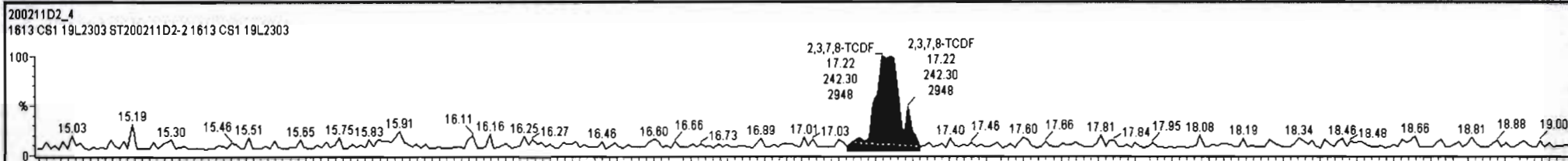
DPE1

200211D2_3



#	Name	Resp	RA	ruy	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EWPC
1	2,3,7,8-TCDF	8.09e2	0.66	NO	0.98	1.000	17.22	1.001	0.548	110	0.147	0.548
2	13C-2,3,7,8-TCDF	1.13e5	0.71	NO	1.08	1.000	17.20	1.133	91.7	91.7	0.381	
3	13C-1,2,3,4-TCDF	1.14e5	0.71	NO	1.00	1.000	15.18	1.000	100	100	0.412	
4	13C-1,2,3,4-TCDD	8.57e4	0.77	NO	1026.38	1.000	15.78	0.000	83.5	83.5	0.324	
5	PFK1					1.000						
6	DPF1					1.000						

#	Name	RT	int Resp	m2 Resp	RA	ruy	EWPC	Conc.
1								



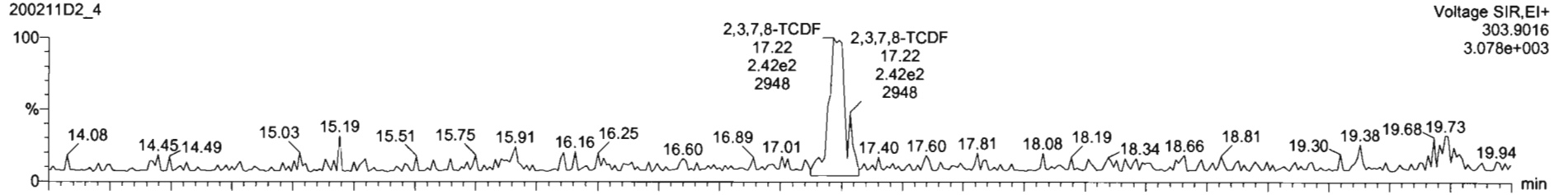
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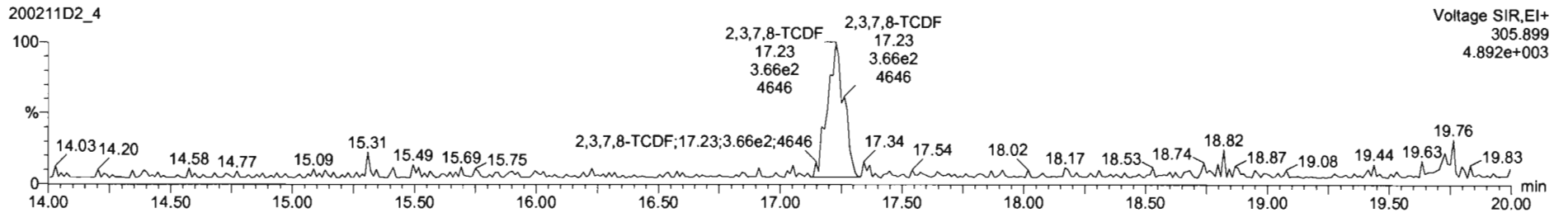
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2,3,7,8-TCDF

200211D2_4

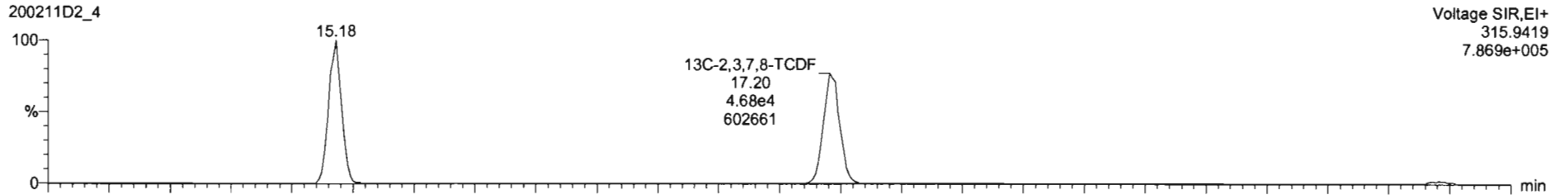


200211D2_4

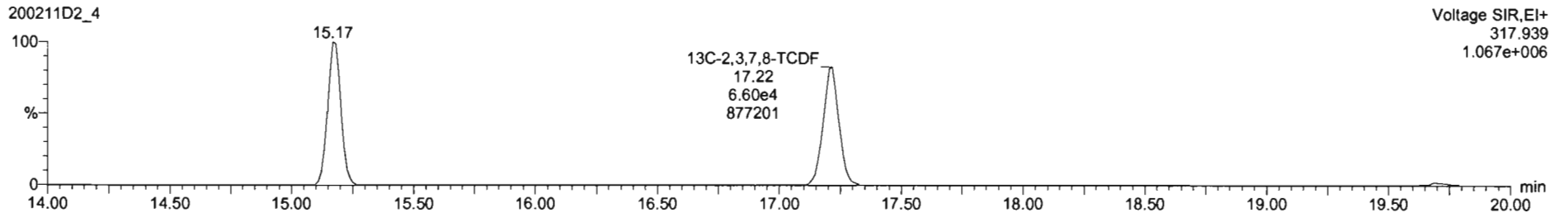


13C-2,3,7,8-TCDF

200211D2_4



200211D2_4



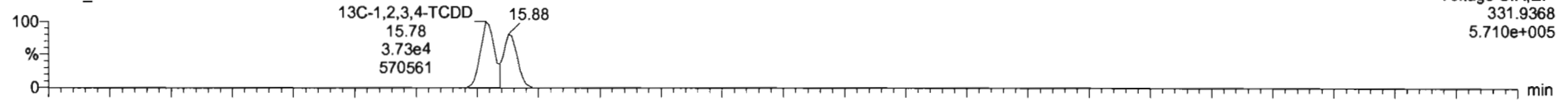
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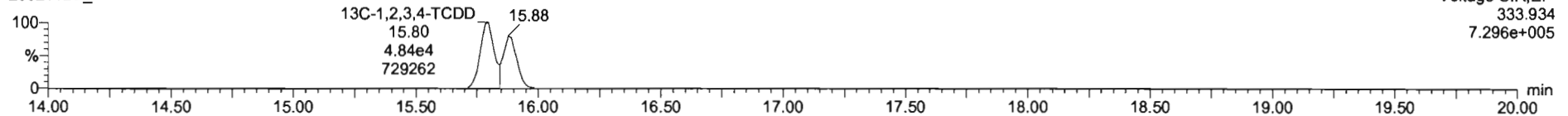
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13C-1,2,3,4-TCDD

200211D2_4

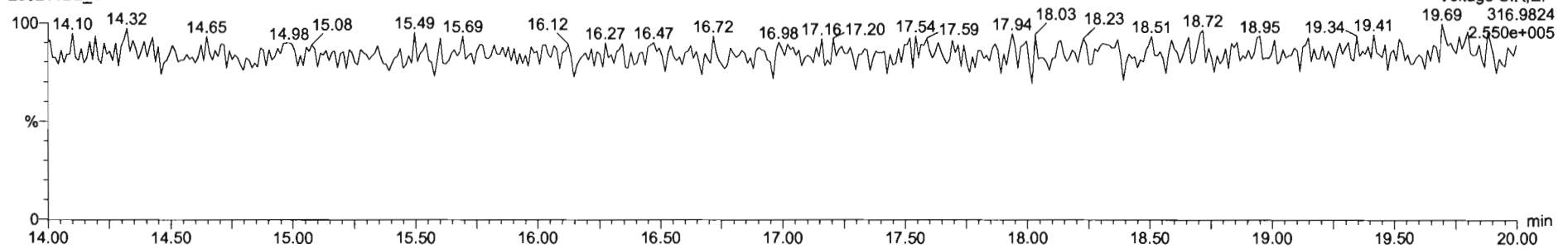


200211D2_4



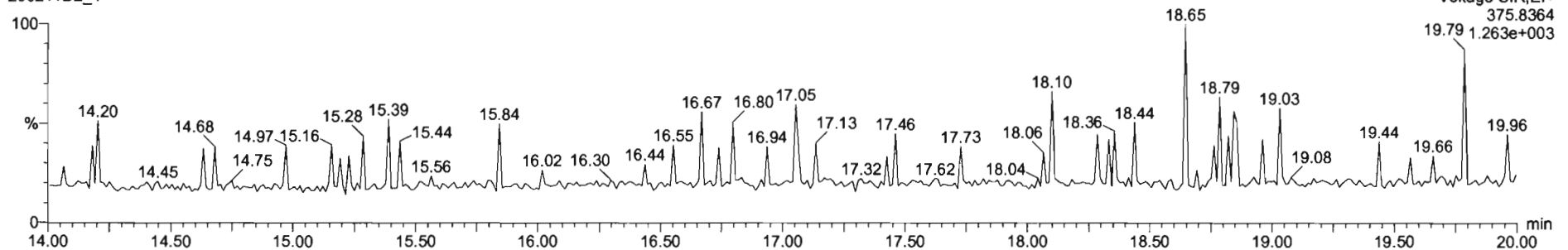
PFK1

200211D2_4



DPE1

200211D2_4



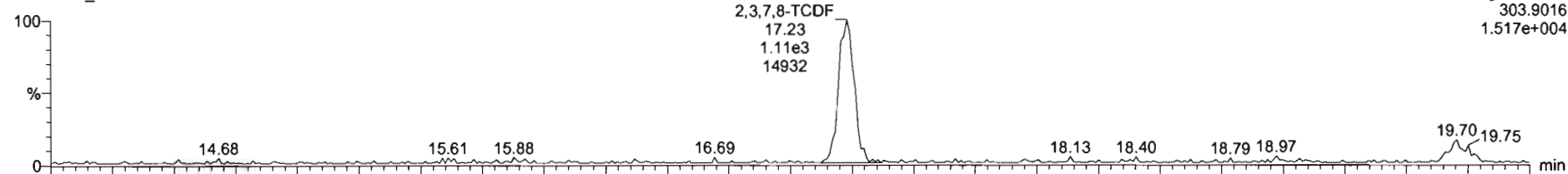
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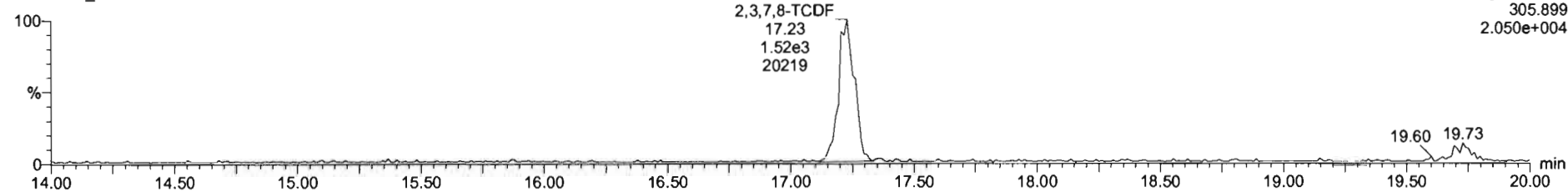
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2,3,7,8-TCDF

200211D2_5

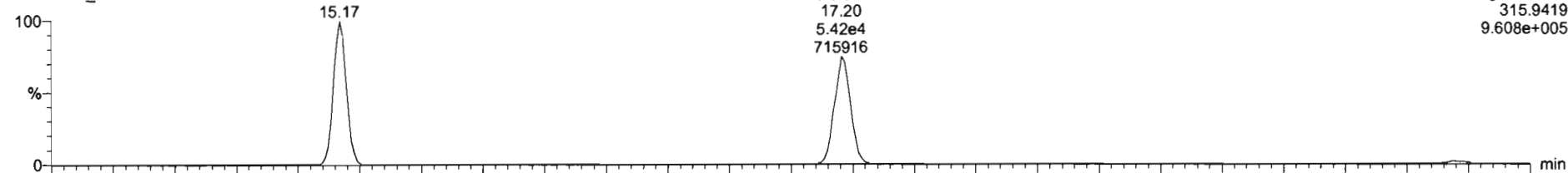


200211D2_5

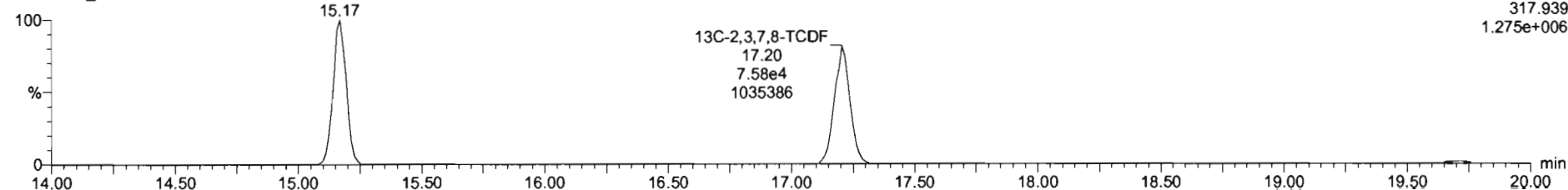


13C-2,3,7,8-TCDF

200211D2_5



200211D2_5

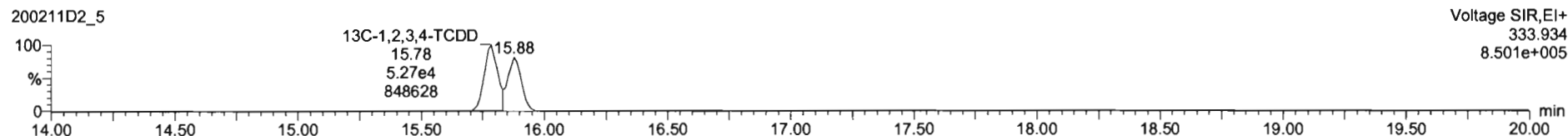
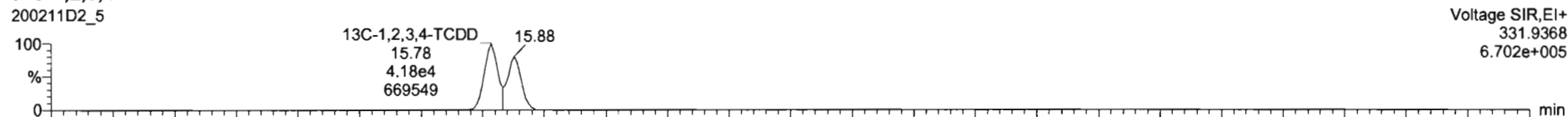


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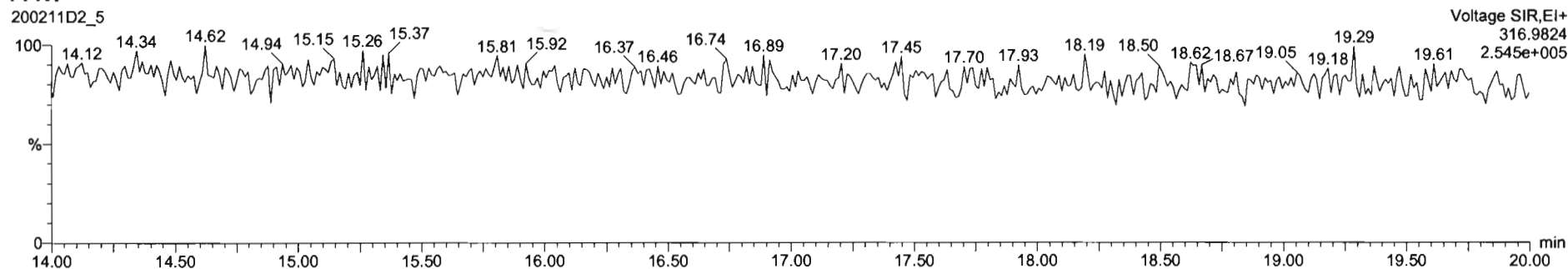
Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

Name: 200211D2_5, Date: 11-Feb-2020, Time: 22:04:03, ID: ST200211D2-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

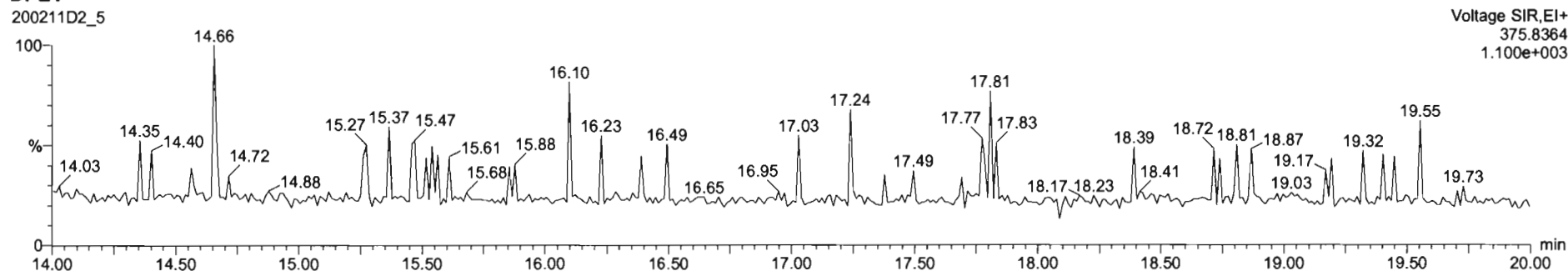
13C-1,2,3,4-TCDD



PFK1



DPE1



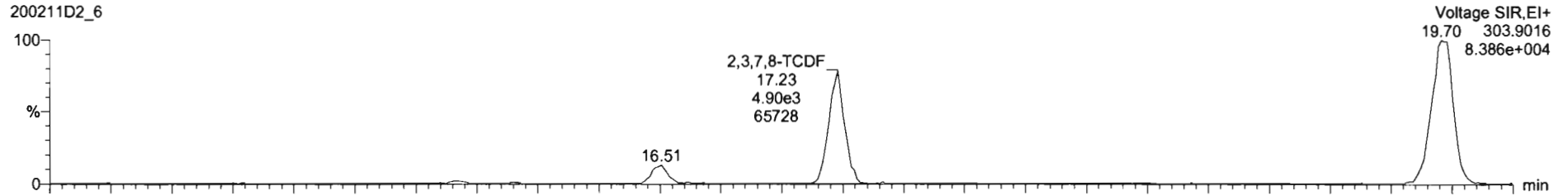
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

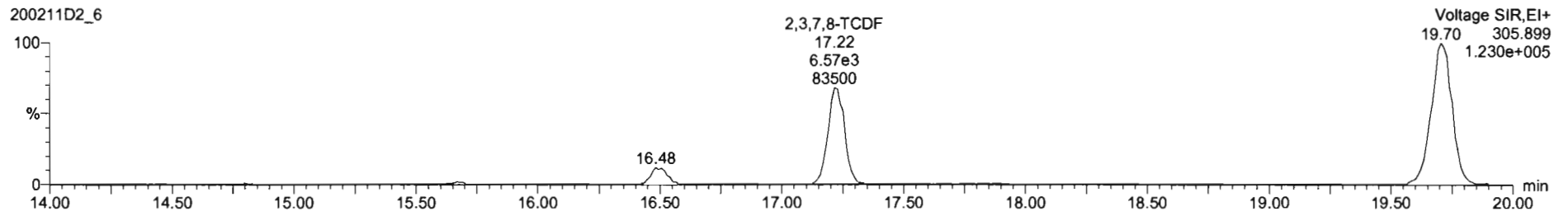
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2,3,7,8-TCDF

200211D2_6

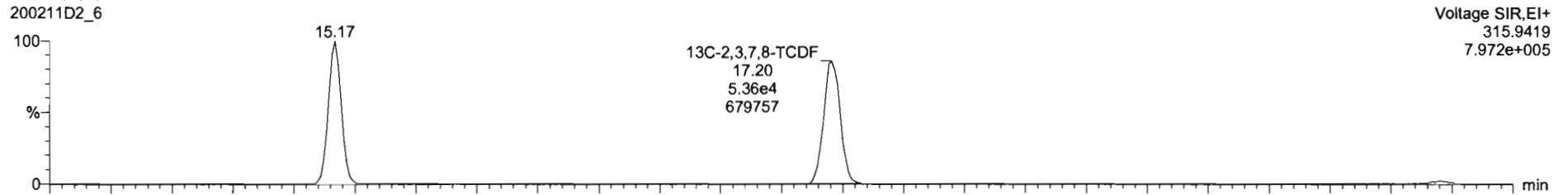


200211D2_6

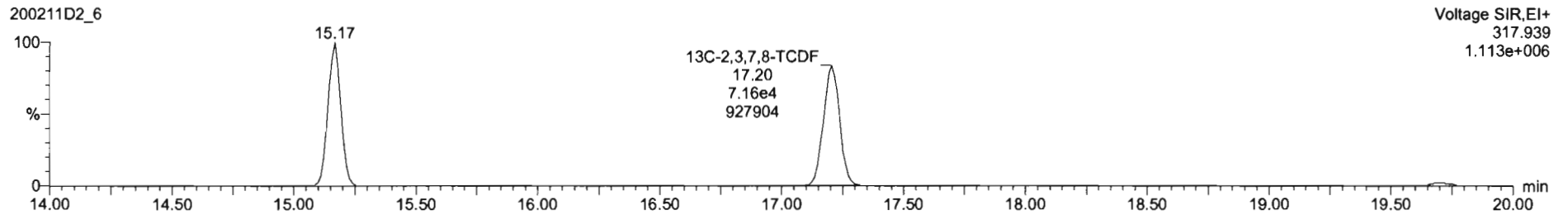


13C-2,3,7,8-TCDF

200211D2_6



200211D2_6



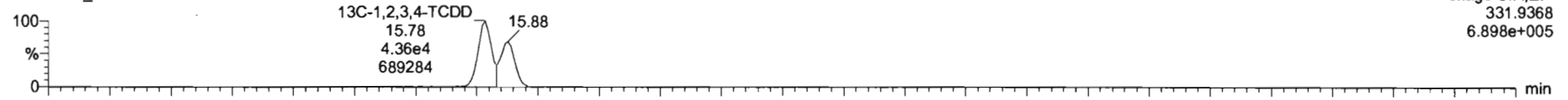
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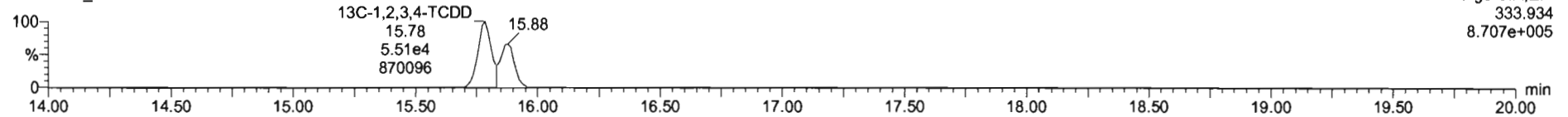
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13C-1,2,3,4-TCDD

200211D2_6

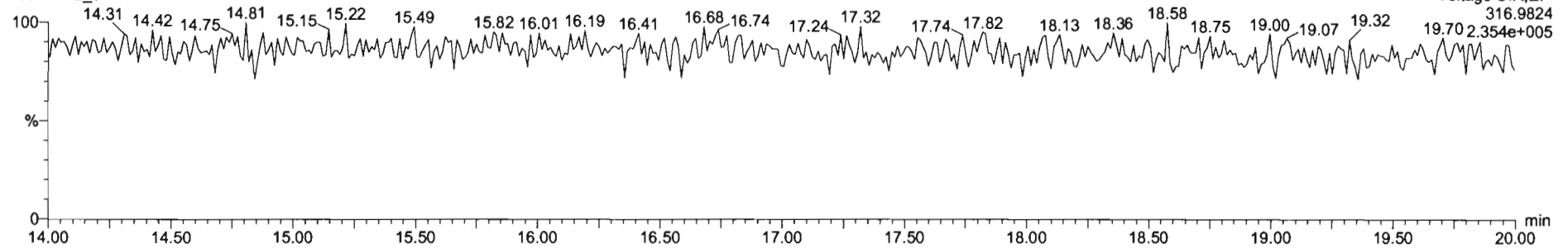


200211D2_6



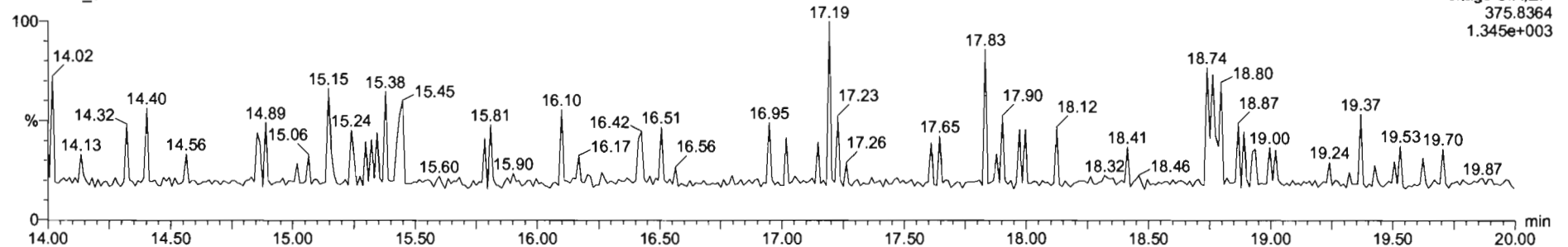
PFK1

200211D2_6



DPE1

200211D2_6



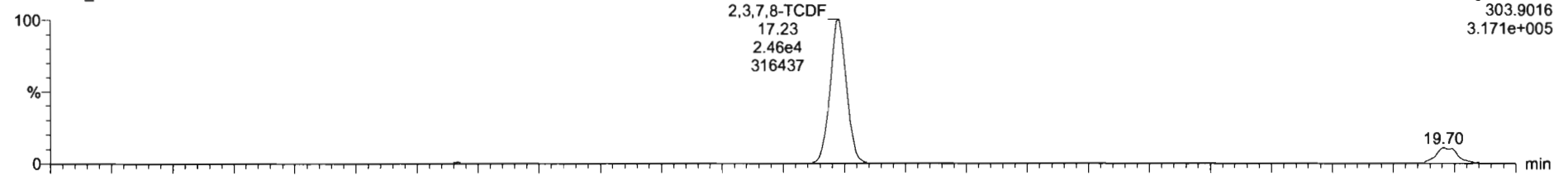
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Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

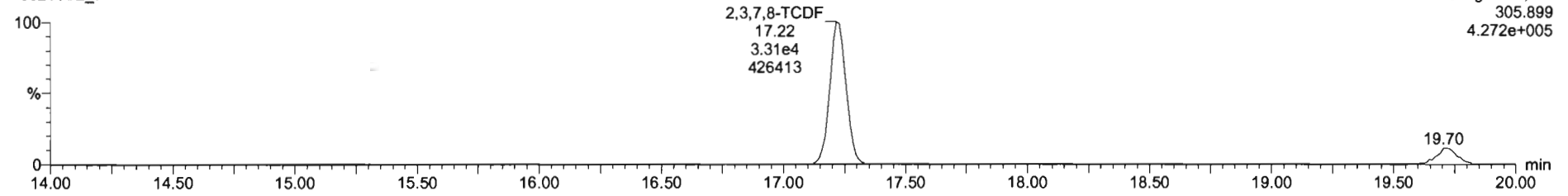
Name: 200211D2_7, Date: 11-Feb-2020, Time: 23:07:28, ID: ST200211D2-5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

2,3,7,8-TCDF

200211D2_7

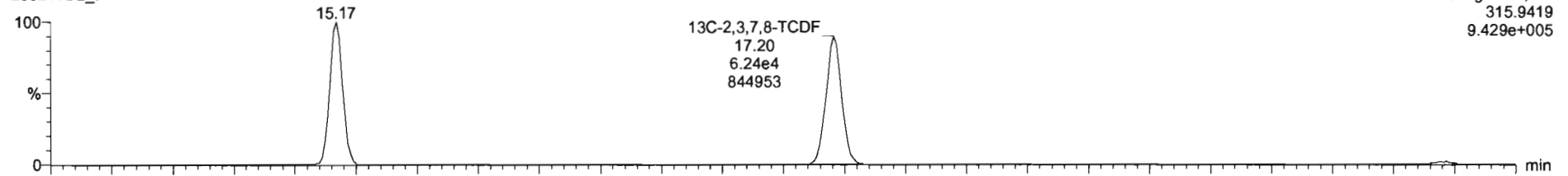


200211D2_7

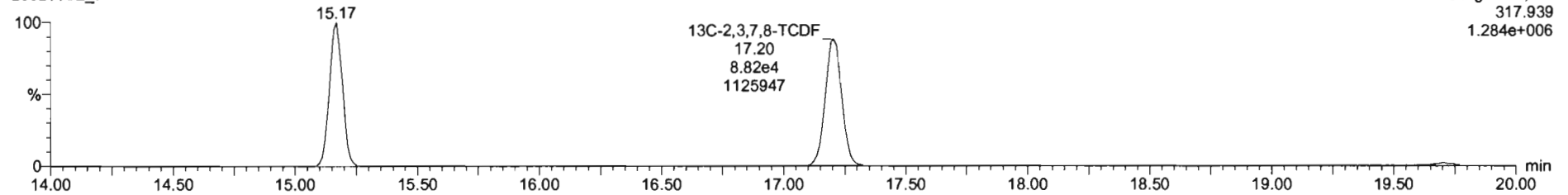


13C-2,3,7,8-TCDF

200211D2_7



200211D2_7



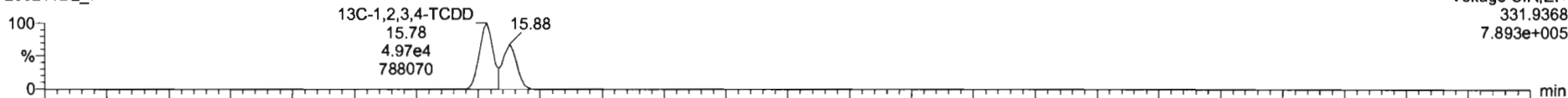
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

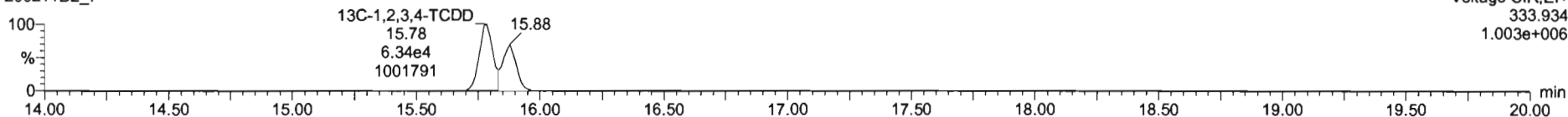
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13C-1,2,3,4-TCDD

200211D2_7

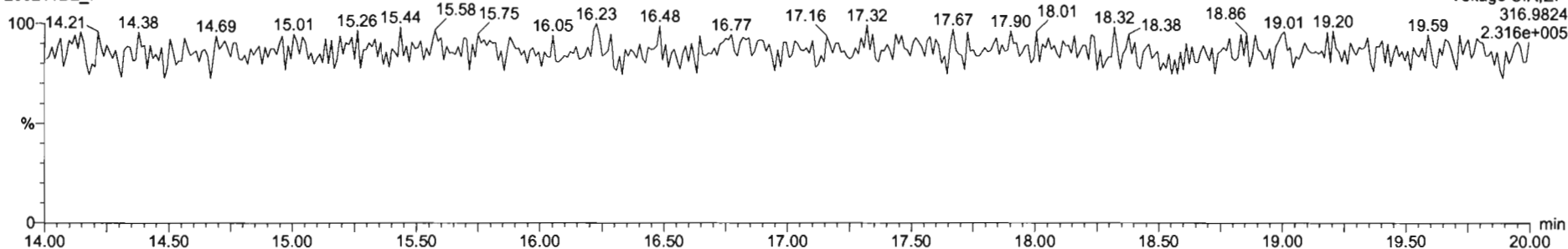


200211D2_7



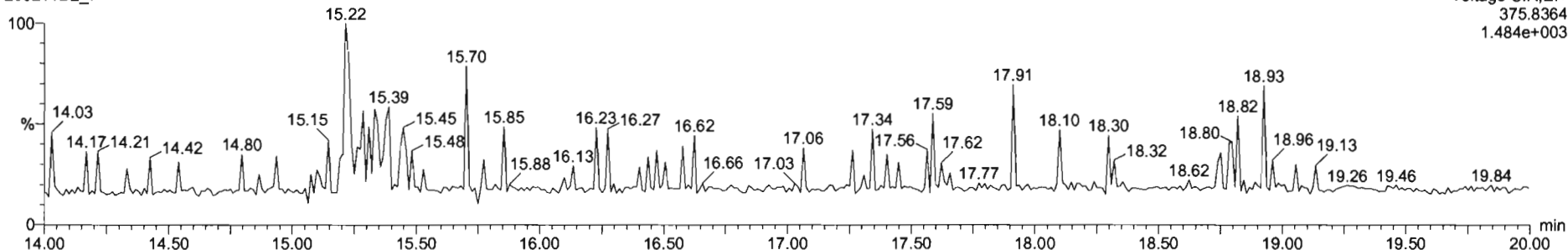
PFK1

200211D2_7



DPE1

200211D2_7



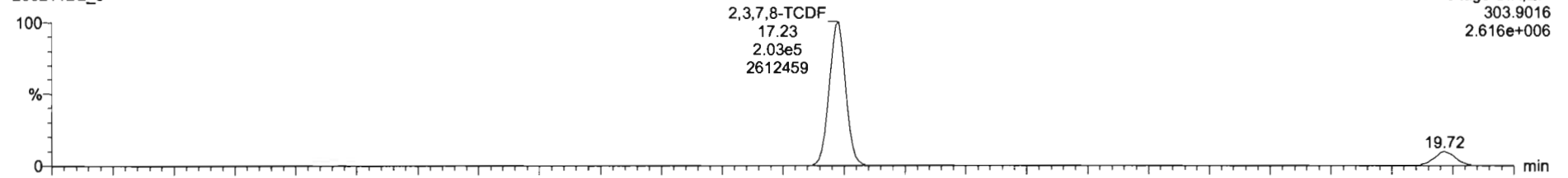
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

Name: 200211D2_8, Date: 11-Feb-2020, Time: 23:39:11, ID: ST200211D2-6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

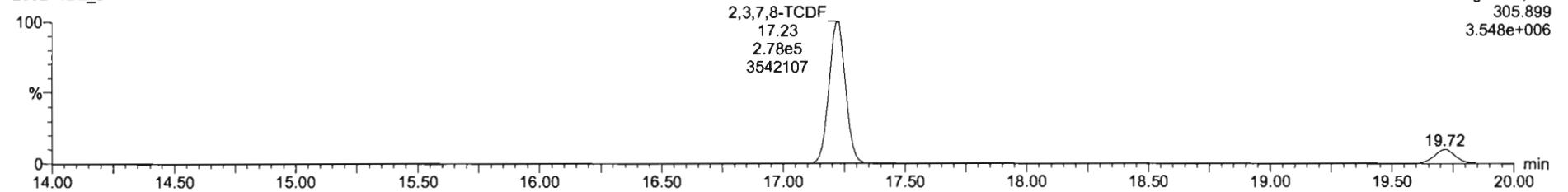
2,3,7,8-TCDF

200211D2_8



Voltage SIR,EI+
303.9016
2.616e+006

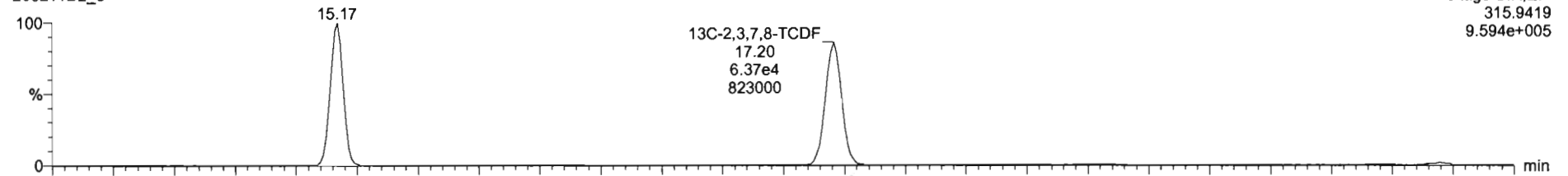
200211D2_8



Voltage SIR,EI+
305.899
3.548e+006

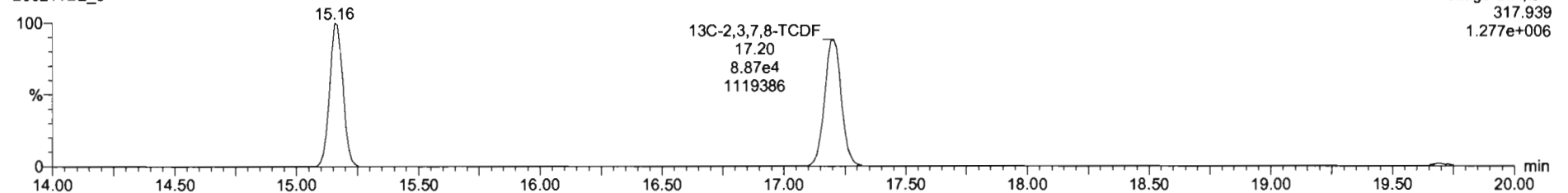
13C-2,3,7,8-TCDF

200211D2_8



Voltage SIR,EI+
315.9419
9.594e+005

200211D2_8



Voltage SIR,EI+
317.939
1.277e+006

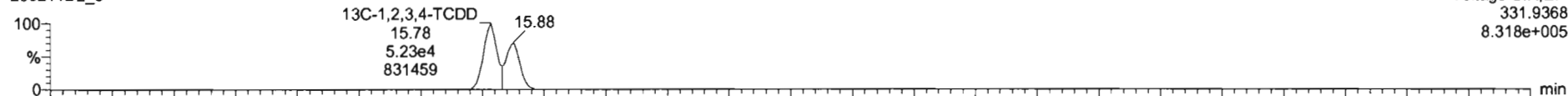
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

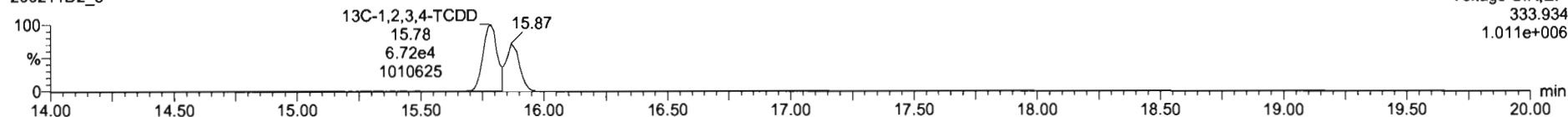
Name: 200211D2_8, Date: 11-Feb-2020, Time: 23:39:11, ID: ST200211D2-6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

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

200211D2_8

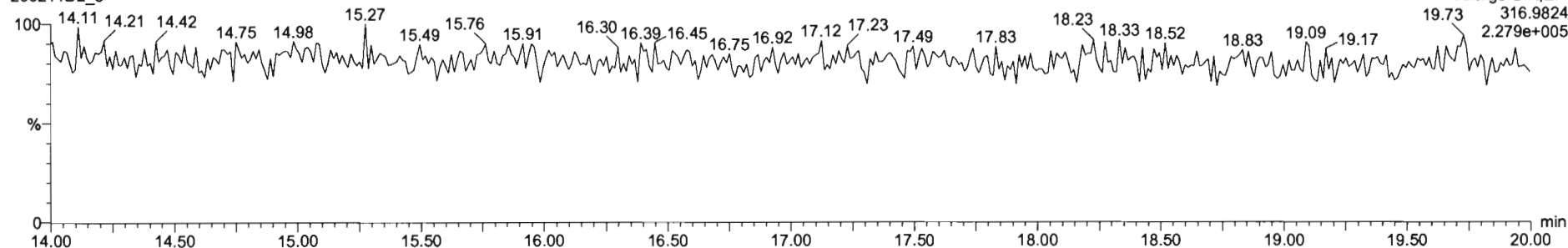


200211D2_8



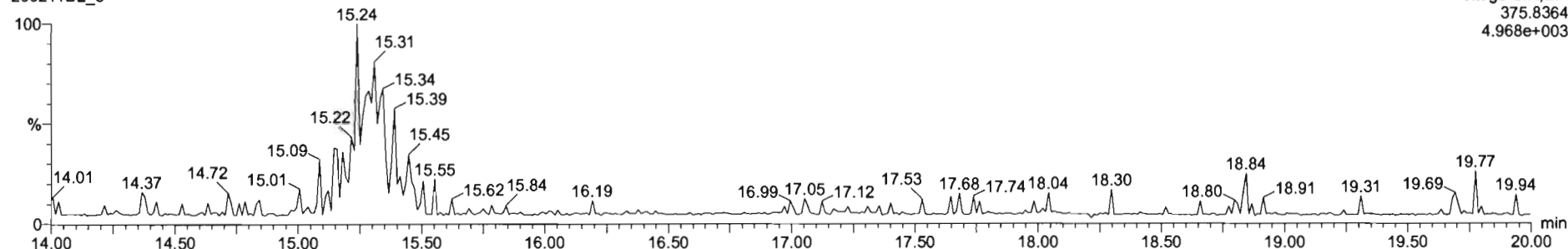
PFK1

200211D2_8

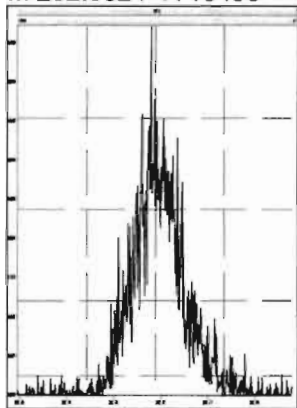


DPE1

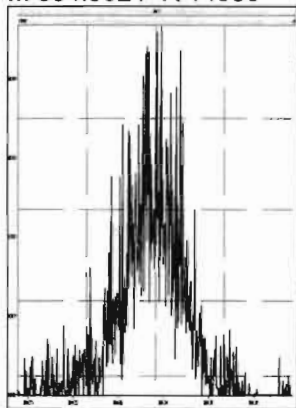
200211D2_8



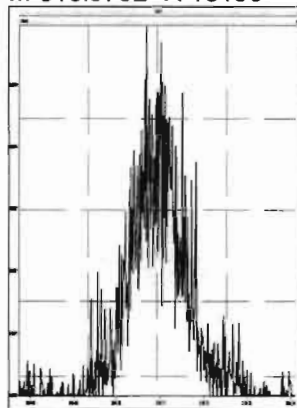
M 292.9824 R 13493



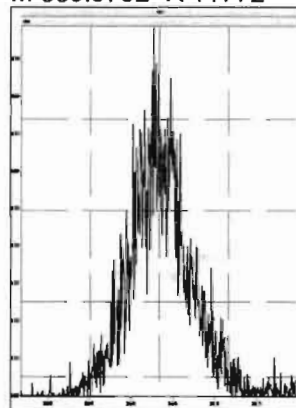
M 304.9824 R 14983



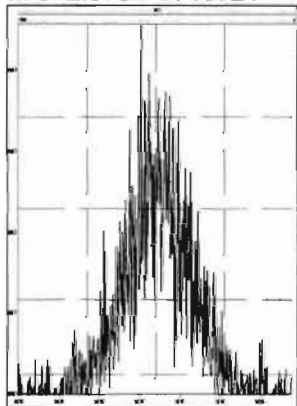
M 318.9792 R 15196



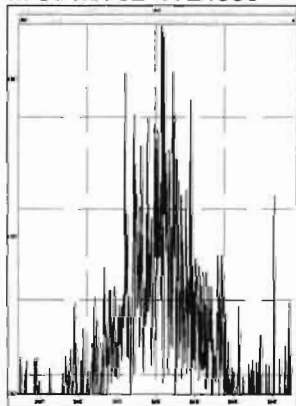
M 330.9792 R 11772



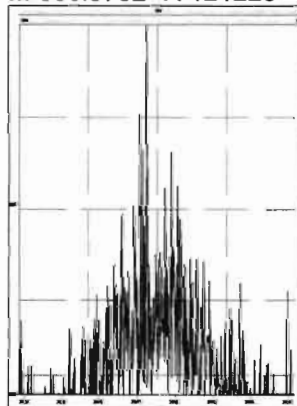
M 342.9792 R 13721



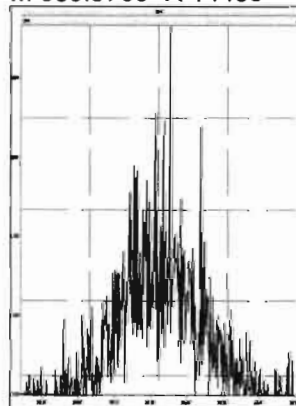
M 354.9792 R 24553



M 366.9792 R 121228



M 380.9760 R 14409



Dataset: U:\VG7.PRO\Results\200211D2\200211D2_10.qld

Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:52:52 Pacific Standard Time

DB 2/12/20 07:52/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

Name: 200211D2_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	2,3,7,8-TCDF	1.29e4	0.77	NO	0.982	1.000	17.22	10.800	108	0.183
2	13C-2,3,7,8-TCDF	1.22e5	0.73	NO	1.08	1.000	17.20	92.025	92.0	0.305
3	13C-1,2,3,4-TCDF	1.22e5	0.72	NO	1.00	1.000	15.17	100.00	100	0.330
4	13C-1,2,3,4-TCDD	8.99e4	0.76	NO	1030	1.000	15.78	87.563	87.6	0.304

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_10.qld

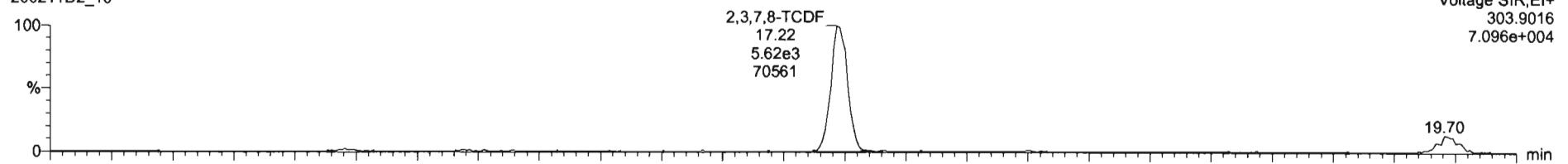
Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:53:15 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

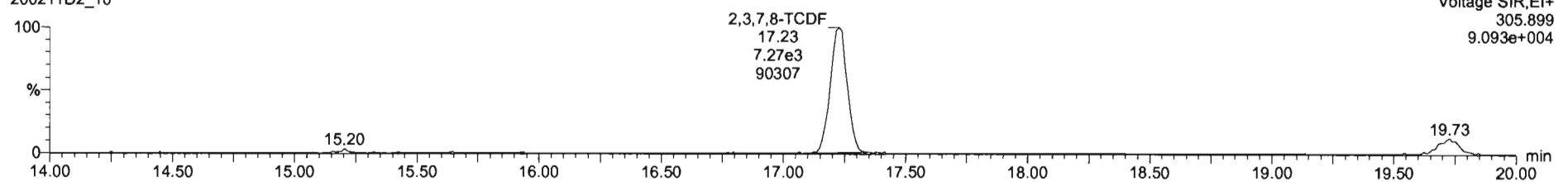
Name: 200211D2_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

2,3,7,8-TCDF

200211D2_10

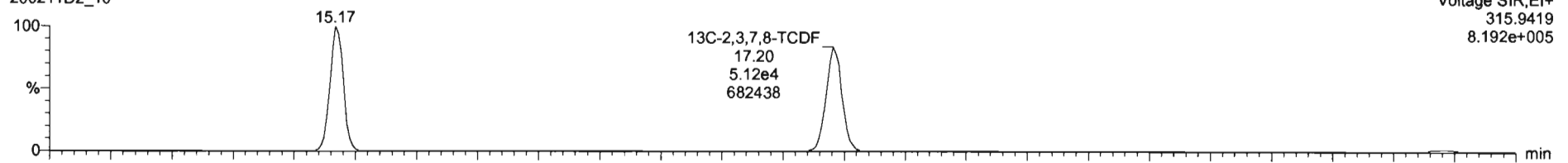


200211D2_10

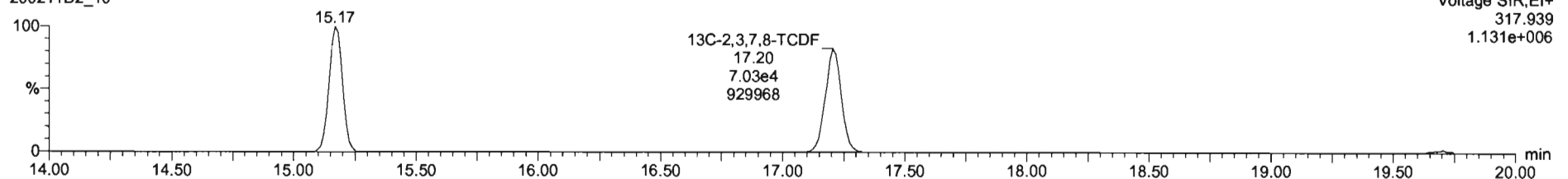


13C-2,3,7,8-TCDF

200211D2_10



200211D2_10



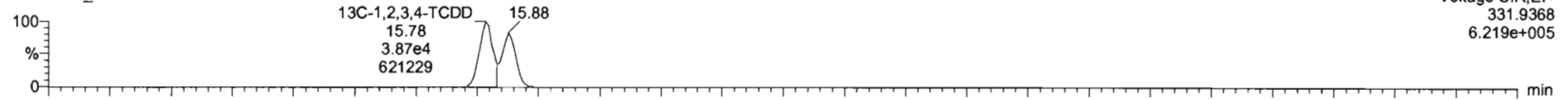
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_10.qld

Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:53:15 Pacific Standard Time

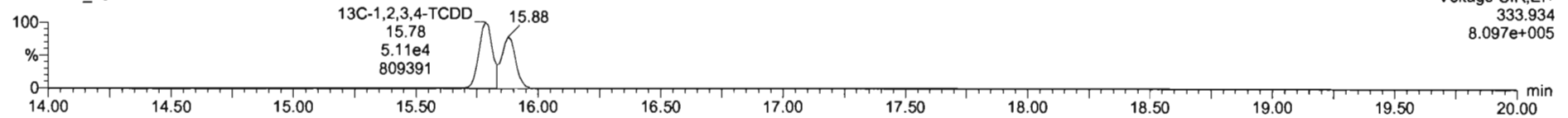
Name: 200211D2_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200211D2_10

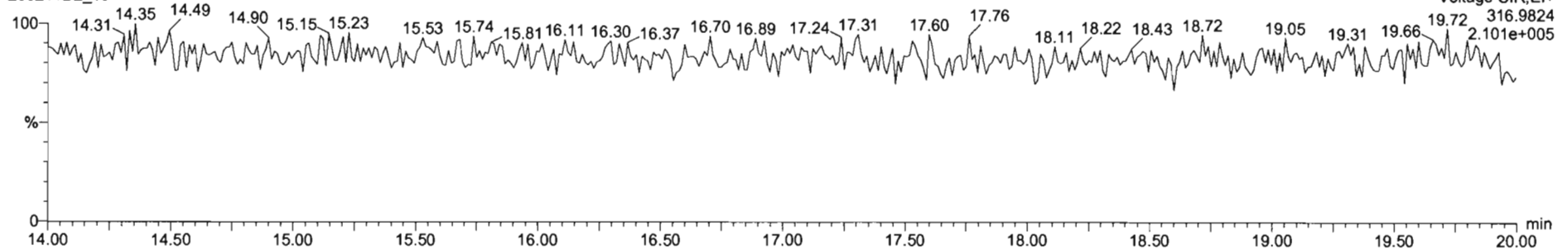


200211D2_10



PFK1

200211D2_10



DPE1

200211D2_10

