

June 04, 2020

**Vista Work Order No. 2000951**

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

Dear Ms. Peterson,

Enclosed are the amended results for the sample set received at Vista Analytical Laboratory on April 28, 2020 under your Project Name 'Gasco PDI'.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at [mmaier@vista-analytical.com](mailto: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. 2000951**

### **Case Narrative**

#### **Sample Condition on Receipt:**

Nine 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. The results for the analyses of "PDI-159SC-A-00-01-200423" by EPA method 1668 was assigned to Vista Work Order No. 2000954. This report was amended to correct the date of analysis for the Method Blank (B0E0066-BLK).

#### **Analytical Notes:**

##### **EPA Method 1613B**

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

##### Holding Times

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

##### Quality Control

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

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

A duplicate was performed on sample "PDI-1159SC-A-01-02-200423". The RPDs outside of the acceptance criteria are listed in bold font.

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
2000951-01	PDI-1159SC-A-01-02-200423	DUP23-Apr-20 14:15	28-Apr-20 09:04	Amber Glass, 120 mL
2000951-02	PDI-159SC-A-00-01-200423	23-Apr-20 14:15	28-Apr-20 09:04	Amber Glass, 120 mL
2000951-03	PDI-159SC-A-01-02-200423	23-Apr-20 14:15	28-Apr-20 09:04	Amber Glass, 120 mL
2000951-04	PDI-159SC-A-02-03-200423	23-Apr-20 14:15	28-Apr-20 09:04	Amber Glass, 120 mL
2000951-05	PDI-159SC-A-03-04-200423	23-Apr-20 14:15	28-Apr-20 09:04	Amber Glass, 120 mL
2000951-06	PDI-159SC-A-04-05-200423	23-Apr-20 14:15	28-Apr-20 09:04	Amber Glass, 120 mL
2000951-07	PDI-159SC-A-05-06-200423	23-Apr-20 14:15	28-Apr-20 09:04	Amber Glass, 120 mL
2000951-08	PDI-159SC-A-06-07-200423	23-Apr-20 14:15	28-Apr-20 09:04	Amber Glass, 120 mL
2000951-09	PDI-159SC-A-07-08-200423	23-Apr-20 14:15	28-Apr-20 09:04	Amber Glass, 120 mL

## **ANALYTICAL RESULTS**

Sample ID: Method Blank					EPA Method 1613B				
Matrix: Solid Sample Size: 10.0 g		QC Batch: B0D0323 Date Extracted: 29-Apr-2020 11:28		Lab Sample: B0D0323-BLK1 Date Analyzed: 06-May-20 15:56 Column: ZB-5MS					
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers	
2,3,7,8-TCDD	ND	0.0880			IS 13C-2,3,7,8-TCDD	81.4	25 - 164		
1,2,3,7,8-PeCDD	ND	0.0768			13C-1,2,3,7,8-PeCDD	90.7	25 - 181		
1,2,3,4,7,8-HxCDD	ND	0.0500			13C-1,2,3,4,7,8-HxCDD	99.1	32 - 141		
1,2,3,6,7,8-HxCDD	ND	0.0543			13C-1,2,3,6,7,8-HxCDD	91.9	28 - 130		
1,2,3,7,8,9-HxCDD	ND	0.0654			13C-1,2,3,7,8,9-HxCDD	91.7	32 - 141		
1,2,3,4,6,7,8-HpCDD	ND	0.0952			13C-1,2,3,4,6,7,8-HpCDD	81.7	23 - 140		
OCDD	ND	0.117			13C-OCDD	64.7	17 - 157		
2,3,7,8-TCDF	ND	0.0683			13C-2,3,7,8-TCDF	75.6	24 - 169		
1,2,3,7,8-PeCDF	ND	0.0523			13C-1,2,3,7,8-PeCDF	91.0	24 - 185		
2,3,4,7,8-PeCDF	ND	0.0479			13C-2,3,4,7,8-PeCDF	88.5	21 - 178		
1,2,3,4,7,8-HxCDF	ND	0.0459			13C-1,2,3,4,7,8-HxCDF	94.8	26 - 152		
1,2,3,6,7,8-HxCDF	ND	0.0426			13C-1,2,3,6,7,8-HxCDF	101	26 - 123		
2,3,4,6,7,8-HxCDF	ND	0.0469			13C-2,3,4,6,7,8-HxCDF	95.7	28 - 136		
1,2,3,7,8,9-HxCDF	ND	0.0783			13C-1,2,3,7,8,9-HxCDF	86.3	29 - 147		
1,2,3,4,6,7,8-HpCDF	ND	0.0529			13C-1,2,3,4,6,7,8-HpCDF	91.9	28 - 143		
1,2,3,4,7,8,9-HpCDF	ND	0.0823			13C-1,2,3,4,7,8,9-HpCDF	75.7	26 - 138		
OCDF	ND	0.107			13C-OCDF	62.2	17 - 157		
					CRS 37Cl-2,3,7,8-TCDD	80.7	35 - 197		
					<b>Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)</b>				
					TEQMinWHO2005Dioxin		0.00		
<b>TOTALS</b>									
Total TCDD	ND	0.0880							
Total PeCDD	ND	0.0768							
Total HxCDD	ND	0.0654							
Total HpCDD	ND	0.0952							
Total TCDF	ND	0.0683							
Total PeCDF	ND	0.0523							
Total HxCDF	ND	0.0783							
Total HpCDF	ND	0.0823							

DL - Sample specific estimated detection limit

EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit

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

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

Sample ID: OPR					EPA Method 1613B		
Matrix: Solid	QC Batch: B0D0323	Lab Sample: B0D0323-BS1					
Sample Size: 10.0 g	Date Extracted: 29-Apr-2020 11:28	Date Analyzed: 06-May-20 14:23	Column: ZB-5MS				
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	17.6	20.0	87.8	67 - 158	IS 13C-2,3,7,8-TCDD	56.2	20 - 175
1,2,3,7,8-PeCDD	89.4	100	89.4	70 - 142	13C-1,2,3,7,8-PeCDD	65.5	21 - 227
1,2,3,4,7,8-HxCDD	93.2	100	93.2	70 - 164	13C-1,2,3,4,7,8-HxCDD	73.3	21 - 193
1,2,3,6,7,8-HxCDD	96.4	100	96.4	76 - 134	13C-1,2,3,6,7,8-HxCDD	70.7	25 - 163
1,2,3,7,8,9-HxCDD	95.4	100	95.4	64 - 162	13C-1,2,3,7,8,9-HxCDD	72.2	21 - 193
1,2,3,4,6,7,8-HpCDD	96.1	100	96.1	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	65.5	26 - 166
OCDD	196	200	97.9	78 - 144	13C-OCDD	52.2	13 - 199
2,3,7,8-TCDF	18.9	20.0	94.7	75 - 158	13C-2,3,7,8-TCDF	50.7	22 - 152
1,2,3,7,8-PeCDF	94.0	100	94.0	80 - 134	13C-1,2,3,7,8-PeCDF	63.1	21 - 192
2,3,4,7,8-PeCDF	91.8	100	91.8	68 - 160	13C-2,3,4,7,8-PeCDF	64.2	13 - 328
1,2,3,4,7,8-HxCDF	101	100	101	72 - 134	13C-1,2,3,4,7,8-HxCDF	69.6	19 - 202
1,2,3,6,7,8-HxCDF	104	100	104	84 - 130	13C-1,2,3,6,7,8-HxCDF	74.7	21 - 159
2,3,4,6,7,8-HxCDF	104	100	104	70 - 156	13C-2,3,4,6,7,8-HxCDF	73.3	22 - 176
1,2,3,7,8,9-HxCDF	101	100	101	78 - 130	13C-1,2,3,7,8,9-HxCDF	65.1	17 - 205
1,2,3,4,6,7,8-HpCDF	103	100	103	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	71.1	21 - 158
1,2,3,4,7,8,9-HpCDF	101	100	101	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	59.3	20 - 186
OCDF	199	200	99.6	63 - 170	13C-OCDF	51.8	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	58.8	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: Method Blank					EPA Method 1613B			
Matrix: Solid Sample Size: 10.0 g		QC Batch: B0E0015 Date Extracted: 02-May-2020 10:44		Lab Sample: B0E0015-BLK1 Date Analyzed: 06-May-20 10:17 Column: ZB-5MS				
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0565			IS 13C-2,3,7,8-TCDD	80.0	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0467			13C-1,2,3,7,8-PeCDD	92.3	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0574			13C-1,2,3,4,7,8-HxCDD	93.1	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0557			13C-1,2,3,6,7,8-HxCDD	97.3	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0732			13C-1,2,3,7,8,9-HxCDD	88.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.109			13C-1,2,3,4,6,7,8-HpCDD	79.7	23 - 140	
OCDD	0.219			J	13C-OCDD	55.6	17 - 157	
2,3,7,8-TCDF	ND	0.0345			13C-2,3,7,8-TCDF	73.9	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0456			13C-1,2,3,7,8-PeCDF	89.4	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0404			13C-2,3,4,7,8-PeCDF	93.4	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0354			13C-1,2,3,4,7,8-HxCDF	101	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0326			13C-1,2,3,6,7,8-HxCDF	110	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0404			13C-2,3,4,6,7,8-HxCDF	99.0	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0862			13C-1,2,3,7,8,9-HxCDF	69.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0697			13C-1,2,3,4,6,7,8-HpCDF	88.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.116			13C-1,2,3,4,7,8,9-HpCDF	67.0	26 - 138	
OCDF	ND	0.152			13C-OCDF	47.1	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	79.7	35 - 197	
					<b>Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)</b>			
					TEQMinWHO2005Dioxin 0.000066			
<b>TOTALS</b>								
Total TCDD	ND	0.0565						
Total PeCDD	ND	0.0467						
Total HxCDD	ND	0.0732						
Total HpCDD	ND	0.109						
Total TCDF	ND	0.0345						
Total PeCDF	ND	0.0456						
Total HxCDF	ND	0.0862						
Total HpCDF	ND	0.116						

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: B0E0015 Date Extracted: 02-May-2020 10:44		Lab Sample: B0E0015-BS1 Date Analyzed: 06-May-20 08:43 Column: ZB-5MS			
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	16.3	20.0	81.7	67 - 158	IS 13C-2,3,7,8-TCDD	102	20 - 175
1,2,3,7,8-PeCDD	82.4	100	82.4	70 - 142	13C-1,2,3,7,8-PeCDD	106	21 - 227
1,2,3,4,7,8-HxCDD	87.1	100	87.1	70 - 164	13C-1,2,3,4,7,8-HxCDD	102	21 - 193
1,2,3,6,7,8-HxCDD	89.4	100	89.4	76 - 134	13C-1,2,3,6,7,8-HxCDD	101	25 - 163
1,2,3,7,8,9-HxCDD	89.1	100	89.1	64 - 162	13C-1,2,3,7,8,9-HxCDD	101	21 - 193
1,2,3,4,6,7,8-HpCDD	89.6	100	89.6	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	94.0	26 - 166
OCDD	179	200	89.5	78 - 144	13C-OCDD	77.4	13 - 199
2,3,7,8-TCDF	17.6	20.0	87.9	75 - 158	13C-2,3,7,8-TCDF	90.7	22 - 152
1,2,3,7,8-PeCDF	87.4	100	87.4	80 - 134	13C-1,2,3,7,8-PeCDF	103	21 - 192
2,3,4,7,8-PeCDF	85.2	100	85.2	68 - 160	13C-2,3,4,7,8-PeCDF	101	13 - 328
1,2,3,4,7,8-HxCDF	95.8	100	95.8	72 - 134	13C-1,2,3,4,7,8-HxCDF	104	19 - 202
1,2,3,6,7,8-HxCDF	94.7	100	94.7	84 - 130	13C-1,2,3,6,7,8-HxCDF	110	21 - 159
2,3,4,6,7,8-HxCDF	97.4	100	97.4	70 - 156	13C-2,3,4,6,7,8-HxCDF	103	22 - 176
1,2,3,7,8,9-HxCDF	94.9	100	94.9	78 - 130	13C-1,2,3,7,8,9-HxCDF	94.0	17 - 205
1,2,3,4,6,7,8-HpCDF	97.2	100	97.2	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	99.4	21 - 158
1,2,3,4,7,8,9-HpCDF	96.9	100	96.9	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	88.0	20 - 186
OCDF	188	200	94.2	63 - 170	13C-OCDF	74.9	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	97.5	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: Method Blank					EPA Method 1613B			
Matrix: Solid Sample Size: 10.0 g		QC Batch: B0E0066 Date Extracted: 08-May-2020 12:49		Lab Sample: B0E0066-BLK1 Date Analyzed: 18-May-20 12:17 Column: ZB-5MS				
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0517			IS 13C-2,3,7,8-TCDD	70.9	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0464			13C-1,2,3,7,8-PeCDD	83.0	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0511			13C-1,2,3,4,7,8-HxCDD	71.9	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0514			13C-1,2,3,6,7,8-HxCDD	72.7	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0579			13C-1,2,3,7,8,9-HxCDD	73.2	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.0797			13C-1,2,3,4,6,7,8-HpCDD	73.1	23 - 140	
OCDD	0.221			J	13C-OCDD	65.8	17 - 157	
2,3,7,8-TCDF	ND	0.0552			13C-2,3,7,8-TCDF	68.9	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0418			13C-1,2,3,7,8-PeCDF	81.5	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0411			13C-2,3,4,7,8-PeCDF	82.2	21 - 178	
1,2,3,4,7,8-HxCDF	0.0567			J	13C-1,2,3,4,7,8-HxCDF	72.3	26 - 152	
1,2,3,6,7,8-HxCDF	0.0563			J	13C-1,2,3,6,7,8-HxCDF	74.3	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0430			13C-2,3,4,6,7,8-HxCDF	72.5	28 - 136	
1,2,3,7,8,9-HxCDF	0.0556			J	13C-1,2,3,7,8,9-HxCDF	70.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0488			13C-1,2,3,4,6,7,8-HpCDF	72.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0557			13C-1,2,3,4,7,8,9-HpCDF	80.5	26 - 138	
OCDF	ND	0.0827			13C-OCDF	73.2	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	73.1	35 - 197	
					<b>Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)</b>			
					TEQMinWHO2005Dioxin	0.0169		
<b>TOTALS</b>								
Total TCDD	ND	0.0517						
Total PeCDD	ND	0.0464						
Total HxCDD	ND	0.0579						
Total HpCDD	ND	0.0797						
Total TCDF	ND	0.0552						
Total PeCDF	0.0448							
Total HxCDF	0.169		0.233					
Total HpCDF	ND	0.0557						

DL - Sample specific estimated detection limit

EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit

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

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

Sample ID: OPR					EPA Method 1613B		
Matrix: Solid	QC Batch: B0E0066	Lab Sample: B0E0066-BS1					
Sample Size: 10.0 g	Date Extracted: 08-May-2020 12:49	Date Analyzed: 18-May-20 09:56	Column: ZB-5MS				
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	16.9	20.0	84.7	67 - 158	IS 13C-2,3,7,8-TCDD	58.4	20 - 175
1,2,3,7,8-PeCDD	88.8	100	88.8	70 - 142	13C-1,2,3,7,8-PeCDD	69.0	21 - 227
1,2,3,4,7,8-HxCDD	98.4	100	98.4	70 - 164	13C-1,2,3,4,7,8-HxCDD	59.7	21 - 193
1,2,3,6,7,8-HxCDD	93.7	100	93.7	76 - 134	13C-1,2,3,6,7,8-HxCDD	64.1	25 - 163
1,2,3,7,8,9-HxCDD	92.3	100	92.3	64 - 162	13C-1,2,3,7,8,9-HxCDD	63.1	21 - 193
1,2,3,4,6,7,8-HpCDD	96.6	100	96.6	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	61.2	26 - 166
OCDD	193	200	96.6	78 - 144	13C-OCDD	56.7	13 - 199
2,3,7,8-TCDF	18.6	20.0	93.1	75 - 158	13C-2,3,7,8-TCDF	55.7	22 - 152
1,2,3,7,8-PeCDF	94.8	100	94.8	80 - 134	13C-1,2,3,7,8-PeCDF	67.2	21 - 192
2,3,4,7,8-PeCDF	93.4	100	93.4	68 - 160	13C-2,3,4,7,8-PeCDF	68.1	13 - 328
1,2,3,4,7,8-HxCDF	106	100	106	72 - 134	13C-1,2,3,4,7,8-HxCDF	60.8	19 - 202
1,2,3,6,7,8-HxCDF	109	100	109	84 - 130	13C-1,2,3,6,7,8-HxCDF	63.4	21 - 159
2,3,4,6,7,8-HxCDF	107	100	107	70 - 156	13C-2,3,4,6,7,8-HxCDF	63.0	22 - 176
1,2,3,7,8,9-HxCDF	101	100	101	78 - 130	13C-1,2,3,7,8,9-HxCDF	62.2	17 - 205
1,2,3,4,6,7,8-HpCDF	106	100	106	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	60.5	21 - 158
1,2,3,4,7,8,9-HpCDF	101	100	101	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	66.7	20 - 186
OCDF	209	200	105	63 - 170	13C-OCDF	59.2	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	58.6	31 - 191

LCL-UCL - Lower control limit - upper control limit

**Sample ID: PDI-1159SC-A-01-02-200423** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000951-01      Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 12.8 g	QC Batch: B0D0323      Date Extracted: 29-Apr-2020 11:28
Date Collected: 23-Apr-2020 14:15	% Solids: 80.2	Date Analyzed : 06-May-20 17:28      Column: ZB-5MS 12-May-20 12:59      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	89.3	25 - 164	
1,2,3,7,8-PeCDD	0.557			J	13C-1,2,3,7,8-PeCDD	87.7	25 - 181	
1,2,3,4,7,8-HxCDD	ND		0.351		13C-1,2,3,4,7,8-HxCDD	89.8	32 - 141	
1,2,3,6,7,8-HxCDD	1.96			J	13C-1,2,3,6,7,8-HxCDD	83.3	28 - 130	
1,2,3,7,8,9-HxCDD	1.44			J	13C-1,2,3,7,8,9-HxCDD	80.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	73.9				13C-1,2,3,4,6,7,8-HpCDD	74.9	23 - 140	
OCDD	831				13C-OCDD	61.5	17 - 157	
2,3,7,8-TCDF	13.1				13C-2,3,7,8-TCDF	84.0	24 - 169	
1,2,3,7,8-PeCDF	19.9				13C-1,2,3,7,8-PeCDF	91.7	24 - 185	
2,3,4,7,8-PeCDF	6.91				13C-2,3,4,7,8-PeCDF	88.5	21 - 178	
1,2,3,4,7,8-HxCDF	40.5				13C-1,2,3,4,7,8-HxCDF	87.6	26 - 152	
1,2,3,6,7,8-HxCDF	11.5				13C-1,2,3,6,7,8-HxCDF	90.6	26 - 123	
2,3,4,6,7,8-HxCDF	2.47				13C-2,3,4,6,7,8-HxCDF	83.4	28 - 136	
1,2,3,7,8,9-HxCDF	2.65				13C-1,2,3,7,8,9-HxCDF	77.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	24.3				13C-1,2,3,4,6,7,8-HpCDF	80.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	6.77				13C-1,2,3,4,7,8,9-HpCDF	69.2	26 - 138	
OCDF	50.0				13C-OCDF	59.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	98.5	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
TEQMinWHO2005Dioxin      11.9

<b>TOTALS</b>		
Total TCDD	1.57	2.33
Total PeCDD	0.850	3.21
Total HxCDD	21.8	23.5
Total HpCDD	181	
Total TCDF	55.6	56.5
Total PeCDF	62.2	62.5
Total HxCDF	75.7	75.9
Total HpCDF	62.6	

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-1159SC-A-01-02-200423		QC Batch: B0D0323		Lab Sample: B0D0323-DUP1					
Source LabNumber: 2000951-01		Date Extracted: 29-Apr-2020 11:28		Date Analyzed: 06-May-20 16:42 Column: ZB-5MS					
Matrix: Solid				12-May-20 17:44 Column: ZB-5MS					
Sample Size: 12.5 g									
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers	
2,3,7,8-TCDD	ND		0.592		IS 13C-2,3,7,8-TCDD	82.4	25 - 164		
1,2,3,7,8-PeCDD	0.771			J	13C-1,2,3,7,8-PeCDD	82.8	25 - 181		
1,2,3,4,7,8-HxCDD	ND		0.449		13C-1,2,3,4,7,8-HxCDD	85.3	32 - 141		
1,2,3,6,7,8-HxCDD	2.09			J	13C-1,2,3,6,7,8-HxCDD	77.1	28 - 130		
1,2,3,7,8,9-HxCDD	1.36			J	13C-1,2,3,7,8,9-HxCDD	76.3	32 - 141		
1,2,3,4,6,7,8-HpCDD	88.3				13C-1,2,3,4,6,7,8-HpCDD	67.6	23 - 140		
OCDD	1020				13C-OCDD	57.0	17 - 157		
2,3,7,8-TCDF	13.8				13C-2,3,7,8-TCDF	75.9	24 - 169		
1,2,3,7,8-PeCDF	23.9				13C-1,2,3,7,8-PeCDF	86.8	24 - 185		
2,3,4,7,8-PeCDF	9.14				13C-2,3,4,7,8-PeCDF	86.8	21 - 178		
1,2,3,4,7,8-HxCDF	54.3				13C-1,2,3,4,7,8-HxCDF	84.3	26 - 152		
1,2,3,6,7,8-HxCDF	15.7				13C-1,2,3,6,7,8-HxCDF	87.2	26 - 123		
2,3,4,6,7,8-HxCDF	3.15				13C-2,3,4,6,7,8-HxCDF	79.9	28 - 136		
1,2,3,7,8,9-HxCDF	1.24			J	13C-1,2,3,7,8,9-HxCDF	72.7	29 - 147		
1,2,3,4,6,7,8-HpCDF	33.4				13C-1,2,3,4,6,7,8-HpCDF	72.5	28 - 143		
1,2,3,4,7,8,9-HpCDF	9.90				13C-1,2,3,4,7,8,9-HpCDF	65.0	26 - 138		
OCDF	61.4				13C-OCDF	53.9	17 - 157		
					CRS 37Cl-2,3,7,8-TCDD	81.9	35 - 197		
					<b>Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)</b>				
					TEQMinWHO2005Dioxin		15.0		
<b>TOTALS</b>									
Total TCDD	1.60		2.57						
Total PeCDD	3.05		3.71						
Total HxCDD	25.1		26.6						
Total HpCDD	211								
Total TCDF	64.6		65.5						
Total PeCDF	72.1		72.9						
Total HxCDF	99.2								
Total HpCDF	80.1		80.5						

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.

Sample ID: Duplicate					EPA Method 1613B				
Source Client ID: PDI-1159SC-A-01-02-200423					Duplicate Lab Sample: B0D0323-DUP1				
Source LabNumber: 2000951-01									
Matrix: Solid									
Analyte	Dup Conc. (pg/g )	Source Conc.	RPD	RPD Limits	Labeled Standard	Dup %R	Source %R	LCL-UCL	
2,3,7,8-TCDD	ND	ND	NA	25	IS 13C-2,3,7,8-TCDD	82.4	89.3	25 - 164	
1,2,3,7,8-PeCDD	0.771	0.557	<b>32.2</b>	25	13C-1,2,3,7,8-PeCDD	82.8	87.7	25 - 181	
1,2,3,4,7,8-HxCDD	ND	ND	NA	25	13C-1,2,3,4,7,8-HxCDD	85.3	89.8	32 - 141	
1,2,3,6,7,8-HxCDD	2.09	1.96	6.84	25	13C-1,2,3,6,7,8-HxCDD	77.1	83.3	28 - 130	
1,2,3,7,8,9-HxCDD	1.36	1.44	6.09	25	13C-1,2,3,7,8,9-HxCDD	76.3	80.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	88.3	73.9	17.7	25	13C-1,2,3,4,6,7,8-HpCDD	67.6	74.9	23 - 140	
OCDD	1020	831	20.4	25	13C-OCDD	57.0	61.5	17 - 157	
2,3,7,8-TCDF	13.8	13.1	4.65	25	13C-2,3,7,8-TCDF	75.9	84.0	24 - 169	
1,2,3,7,8-PeCDF	23.9	19.9	18.2	25	13C-1,2,3,7,8-PeCDF	86.8	91.7	24 - 185	
2,3,4,7,8-PeCDF	9.14	6.91	<b>27.8</b>	25	13C-2,3,4,7,8-PeCDF	86.8	88.5	21 - 178	
1,2,3,4,7,8-HxCDF	54.3	40.5	<b>29.1</b>	25	13C-1,2,3,4,7,8-HxCDF	84.3	87.6	26 - 152	
1,2,3,6,7,8-HxCDF	15.7	11.5	<b>31.0</b>	25	13C-1,2,3,6,7,8-HxCDF	87.2	90.6	26 - 123	
2,3,4,6,7,8-HxCDF	3.15	2.47	24.4	25	13C-2,3,4,6,7,8-HxCDF	79.9	83.4	28 - 136	
1,2,3,7,8,9-HxCDF	1.24	2.65	<b>72.3</b>	25	13C-1,2,3,7,8,9-HxCDF	72.7	77.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	33.4	24.3	<b>31.6</b>	25	13C-1,2,3,4,6,7,8-HpCDF	72.5	80.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	9.90	6.77	<b>37.6</b>	25	13C-1,2,3,4,7,8,9-HpCDF	65.0	69.2	26 - 138	
OCDF	61.4	50.0	20.5	25	13C-OCDF	53.9	59.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	81.9	98.5	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-159SC-A-00-01-200423** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000951-02      Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 16.8 g	QC Batch: B0D0323      Date Extracted: 29-Apr-2020 11:28
Date Collected: 23-Apr-2020 14:15	% Solids: 62.5	Date Analyzed : 06-May-20 18:15      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.426		IS 13C-2,3,7,8-TCDD	93.5	25 - 164	
1,2,3,7,8-PeCDD	0.625			J	13C-1,2,3,7,8-PeCDD	95.9	25 - 181	
1,2,3,4,7,8-HxCDD	0.728			J	13C-1,2,3,4,7,8-HxCDD	96.5	32 - 141	
1,2,3,6,7,8-HxCDD	3.37				13C-1,2,3,6,7,8-HxCDD	92.9	28 - 130	
1,2,3,7,8,9-HxCDD	2.01			J	13C-1,2,3,7,8,9-HxCDD	82.2	32 - 141	
1,2,3,4,6,7,8-HpCDD	99.7				13C-1,2,3,4,6,7,8-HpCDD	78.8	23 - 140	
OCDD	1220				13C-OCDD	62.5	17 - 157	
2,3,7,8-TCDF	37.1				13C-2,3,7,8-TCDF	90.8	24 - 169	
1,2,3,7,8-PeCDF	49.3				13C-1,2,3,7,8-PeCDF	98.3	24 - 185	
2,3,4,7,8-PeCDF	19.0				13C-2,3,4,7,8-PeCDF	97.6	21 - 178	
1,2,3,4,7,8-HxCDF	99.1				13C-1,2,3,4,7,8-HxCDF	90.9	26 - 152	
1,2,3,6,7,8-HxCDF	26.3				13C-1,2,3,6,7,8-HxCDF	97.6	26 - 123	
2,3,4,6,7,8-HxCDF	5.29				13C-2,3,4,6,7,8-HxCDF	86.5	28 - 136	
1,2,3,7,8,9-HxCDF	6.95				13C-1,2,3,7,8,9-HxCDF	87.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	50.0				13C-1,2,3,4,6,7,8-HpCDF	101	28 - 143	
1,2,3,4,7,8,9-HpCDF	15.9				13C-1,2,3,4,7,8,9-HpCDF	74.6	26 - 138	
OCDF	98.0				13C-OCDF	58.6	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	101	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
 TEQMinWHO2005Dioxin      27.9

<b>TOTALS</b>		
Total TCDD	2.07	2.77
Total PeCDD	4.69	5.18
Total HxCDD	32.3	
Total HpCDD	263	
Total TCDF	118	
Total PeCDF	134	
Total HxCDF	168	
Total HpCDF	117	

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-159SC-A-01-02-200423** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000951-03      Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 12.5 g	QC Batch: B0E0066      Date Extracted: 08-May-2020 12:49
Date Collected: 23-Apr-2020 14:15	% Solids: 80.2	Date Analyzed : 19-May-20 01:35      Column: ZB-5MS 20-May-20 14:08      Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.459		IS 13C-2,3,7,8-TCDD	93.4	25 - 164	
1,2,3,7,8-PeCDD	0.566			J	13C-1,2,3,7,8-PeCDD	103	25 - 181	
1,2,3,4,7,8-HxCDD	0.395			J	13C-1,2,3,4,7,8-HxCDD	89.4	32 - 141	
1,2,3,6,7,8-HxCDD	1.56			J	13C-1,2,3,6,7,8-HxCDD	85.4	28 - 130	
1,2,3,7,8,9-HxCDD	0.837			J	13C-1,2,3,7,8,9-HxCDD	91.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	63.2				13C-1,2,3,4,6,7,8-HpCDD	86.4	23 - 140	
OCDD	815			B	13C-OCDD	81.5	17 - 157	
2,3,7,8-TCDF	15.5				13C-2,3,7,8-TCDF	91.2	24 - 169	
1,2,3,7,8-PeCDF	19.8				13C-1,2,3,7,8-PeCDF	103	24 - 185	
2,3,4,7,8-PeCDF	1.45			J	13C-2,3,4,7,8-PeCDF	103	21 - 178	
1,2,3,4,7,8-HxCDF	42.3			B	13C-1,2,3,4,7,8-HxCDF	88.6	26 - 152	
1,2,3,6,7,8-HxCDF	11.3			B	13C-1,2,3,6,7,8-HxCDF	86.5	26 - 123	
2,3,4,6,7,8-HxCDF	2.42			J	13C-2,3,4,6,7,8-HxCDF	85.3	28 - 136	
1,2,3,7,8,9-HxCDF	3.49			B	13C-1,2,3,7,8,9-HxCDF	91.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	26.2				13C-1,2,3,4,6,7,8-HpCDF	82.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	7.26				13C-1,2,3,4,7,8,9-HpCDF	91.1	26 - 138	
OCDF	53.2				13C-OCDF	78.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	92.5	35 - 197	

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

TEQMinWHO2005Dioxin      10.6

<b>TOTALS</b>			
Total TCDD	1.69		2.15
Total PeCDD	2.26		3.20
Total HxCDD	17.7		
Total HpCDD	155		
Total TCDF	54.4		
Total PeCDF	59.3		B
Total HxCDF	74.9		75.3      B
Total HpCDF	64.4		

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

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



**Sample ID: PDI-159SC-A-02-03-200423** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000951-04      Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 12.3 g	QC Batch: B0D0323      Date Extracted: 29-Apr-2020 11:28
Date Collected: 23-Apr-2020 14:15	% Solids: 82.1	Date Analyzed: 06-May-20 19:47      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0485			IS 13C-2,3,7,8-TCDD	93.3	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0695			13C-1,2,3,7,8-PeCDD	93.5	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0755			13C-1,2,3,4,7,8-HxCDD	98.4	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0805			13C-1,2,3,6,7,8-HxCDD	89.3	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0944			13C-1,2,3,7,8,9-HxCDD	90.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	2.07			J	13C-1,2,3,4,6,7,8-HpCDD	82.9	23 - 140	
OCDD	17.8				13C-OCDD	67.5	17 - 157	
2,3,7,8-TCDF	0.122			J	13C-2,3,7,8-TCDF	91.0	24 - 169	
1,2,3,7,8-PeCDF	0.126			J	13C-1,2,3,7,8-PeCDF	96.0	24 - 185	
2,3,4,7,8-PeCDF	ND		0.0189		13C-2,3,4,7,8-PeCDF	95.7	21 - 178	
1,2,3,4,7,8-HxCDF	ND		0.224		13C-1,2,3,4,7,8-HxCDF	95.5	26 - 152	
1,2,3,6,7,8-HxCDF	ND		0.0745		13C-1,2,3,6,7,8-HxCDF	100	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0455			13C-2,3,4,6,7,8-HxCDF	93.7	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0743			13C-1,2,3,7,8,9-HxCDF	88.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.331			J	13C-1,2,3,4,6,7,8-HpCDF	92.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.122			13C-1,2,3,4,7,8,9-HpCDF	81.4	26 - 138	
OCDF	0.748			J	13C-OCDF	67.1	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	94.6	35 - 197	

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

TEQMinWHO2005Dioxin      0.0456

<b>TOTALS</b>								
Total TCDD	ND	0.0485						
Total PeCDD	ND	0.0695						
Total HxCDD	0.787							
Total HpCDD	4.99							
Total TCDF	0.122							
Total PeCDF	0.126		0.238					
Total HxCDF	0.0867		0.386					
Total HpCDF	0.763							

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-159SC-A-03-04-200423** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000951-05      Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 12.7 g	QC Batch: B0E0015      Date Extracted: 02-May-2020 10:44
Date Collected: 23-Apr-2020 14:15	% Solids: 79.0	Date Analyzed: 06-May-20 20:33      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0729			IS 13C-2,3,7,8-TCDD	65.9	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0832			13C-1,2,3,7,8-PeCDD	77.4	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.103			13C-1,2,3,4,7,8-HxCDD	77.8	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0973			13C-1,2,3,6,7,8-HxCDD	78.8	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.106			13C-1,2,3,7,8,9-HxCDD	84.6	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.975			J	13C-1,2,3,4,6,7,8-HpCDD	77.3	23 - 140	
OCDD	7.68			B	13C-OCDD	65.5	17 - 157	
2,3,7,8-TCDF	ND	0.0518			13C-2,3,7,8-TCDF	57.7	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0335			13C-1,2,3,7,8-PeCDF	73.2	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0312			13C-2,3,4,7,8-PeCDF	72.0	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0525			13C-1,2,3,4,7,8-HxCDF	82.0	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0482			13C-1,2,3,6,7,8-HxCDF	87.4	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0522			13C-2,3,4,6,7,8-HxCDF	83.8	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0864			13C-1,2,3,7,8,9-HxCDF	78.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0502			13C-1,2,3,4,6,7,8-HpCDF	83.9	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0704			13C-1,2,3,4,7,8,9-HpCDF	72.7	26 - 138	
OCDF	ND	0.0713			13C-OCDF	62.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	65.6	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
 TEQMinWHO2005Dioxin      0.0121

<b>TOTALS</b>			
Total TCDD	0.228		
Total PeCDD	ND	0.0832	
Total HxCDD	1.00		
Total HpCDD	2.77		
Total TCDF	ND	0.0518	
Total PeCDF	ND	0.0335	
Total HxCDF	ND	0.0864	
Total HpCDF	ND	0.0704	

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-159SC-A-04-05-200423** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000951-06      Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 11.1 g	QC Batch: B0D0323      Date Extracted: 29-Apr-2020 11:28
Date Collected: 23-Apr-2020 14:15	% Solids: 91.2	Date Analyzed: 06-May-20 21:19      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0730			IS 13C-2,3,7,8-TCDD	84.5	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0754			13C-1,2,3,7,8-PeCDD	90.6	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0882			13C-1,2,3,4,7,8-HxCDD	97.6	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0927			13C-1,2,3,6,7,8-HxCDD	89.5	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.113			13C-1,2,3,7,8,9-HxCDD	90.0	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.938			J	13C-1,2,3,4,6,7,8-HpCDD	81.8	23 - 140	
OCDD	7.12				13C-OCDD	73.0	17 - 157	
2,3,7,8-TCDF	ND	0.0360			13C-2,3,7,8-TCDF	77.6	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0431			13C-1,2,3,7,8-PeCDF	91.7	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0403			13C-2,3,4,7,8-PeCDF	93.1	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0319			13C-1,2,3,4,7,8-HxCDF	92.8	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0293			13C-1,2,3,6,7,8-HxCDF	96.6	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0318			13C-2,3,4,6,7,8-HxCDF	93.1	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0520			13C-1,2,3,7,8,9-HxCDF	85.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0410			13C-1,2,3,4,6,7,8-HpCDF	91.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0601			13C-1,2,3,4,7,8,9-HpCDF	81.5	26 - 138	
OCDF	ND	0.0775			13C-OCDF	70.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	89.2	35 - 197	

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

TEQMinWHO2005Dioxin      0.0115

<b>TOTALS</b>		
Total TCDD	0.524	
Total PeCDD	0.156	0.231
Total HxCDD	1.29	
Total HpCDD	2.83	
Total TCDF	ND	0.0360
Total PeCDF	0.0428	
Total HxCDF	ND	0.0520
Total HpCDF	ND	0.0601

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-159SC-A-05-06-200423** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000951-07      Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 11.3 g	QC Batch: B0D0323      Date Extracted: 29-Apr-2020 11:28
Date Collected: 23-Apr-2020 14:15	% Solids: 89.7	Date Analyzed: 06-May-20 22:05      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	0.634				IS 13C-2,3,7,8-TCDD	87.0	25 - 164	
1,2,3,7,8-PeCDD	0.297			J	13C-1,2,3,7,8-PeCDD	88.0	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.141			13C-1,2,3,4,7,8-HxCDD	92.0	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.147			13C-1,2,3,6,7,8-HxCDD	83.8	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.178			13C-1,2,3,7,8,9-HxCDD	85.0	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.824			J	13C-1,2,3,4,6,7,8-HpCDD	79.0	23 - 140	
OCDD	9.19				13C-OCDD	67.2	17 - 157	
2,3,7,8-TCDF	ND	0.0368			13C-2,3,7,8-TCDF	87.1	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0454			13C-1,2,3,7,8-PeCDF	90.5	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0450			13C-2,3,4,7,8-PeCDF	91.1	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0514			13C-1,2,3,4,7,8-HxCDF	86.5	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0478			13C-1,2,3,6,7,8-HxCDF	90.2	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0574			13C-2,3,4,6,7,8-HxCDF	86.0	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0898			13C-1,2,3,7,8,9-HxCDF	80.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0661			13C-1,2,3,4,6,7,8-HpCDF	82.9	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0856			13C-1,2,3,4,7,8,9-HpCDF	78.7	26 - 138	
OCDF	ND	0.0867			13C-OCDF	67.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	88.0	35 - 197	

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

TEQMinWHO2005Dioxin      0.942

<b>TOTALS</b>								
Total TCDD	2.24							
Total PeCDD	1.95							
Total HxCDD	1.26							
Total HpCDD	2.60							
Total TCDF	ND	0.0368						
Total PeCDF	ND	0.0454						
Total HxCDF	ND	0.0898						
Total HpCDF	ND	0.0856						

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-159SC-A-06-07-200423** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000951-08      Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 12.3 g	QC Batch: B0D0323      Date Extracted: 29-Apr-2020 11:28
Date Collected: 23-Apr-2020 14:15	% Solids: 82.9	Date Analyzed : 06-May-20 22:52      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0460			IS 13C-2,3,7,8-TCDD	91.7	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0626			13C-1,2,3,7,8-PeCDD	92.3	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0620			13C-1,2,3,4,7,8-HxCDD	96.8	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0680			13C-1,2,3,6,7,8-HxCDD	92.9	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0728			13C-1,2,3,7,8,9-HxCDD	101	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.143			13C-1,2,3,4,6,7,8-HpCDD	86.3	23 - 140	
OCDD	0.356			J	13C-OCDD	74.6	17 - 157	
2,3,7,8-TCDF	ND	0.0313			13C-2,3,7,8-TCDF	89.4	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0388			13C-1,2,3,7,8-PeCDF	94.4	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0381			13C-2,3,4,7,8-PeCDF	92.3	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0374			13C-1,2,3,4,7,8-HxCDF	91.5	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0354			13C-1,2,3,6,7,8-HxCDF	99.0	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0370			13C-2,3,4,6,7,8-HxCDF	99.9	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0595			13C-1,2,3,7,8,9-HxCDF	96.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0580			13C-1,2,3,4,6,7,8-HpCDF	98.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0822			13C-1,2,3,4,7,8,9-HpCDF	83.7	26 - 138	
OCDF	ND	0.0614			13C-OCDF	73.5	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	95.1	35 - 197	

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

TEQMinWHO2005Dioxin      0.000107

<b>TOTALS</b>		
Total TCDD	ND	0.0460
Total PeCDD	ND	0.0626
Total HxCDD	ND	0.0728
Total HpCDD	ND	0.143
Total TCDF	ND	0.0313
Total PeCDF	ND	0.0388
Total HxCDF	ND	0.0595
Total HpCDF	ND	0.0822

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-159SC-A-07-08-200423** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000951-09      Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 12.3 g	QC Batch: B0D0323      Date Extracted: 29-Apr-2020 11:28
Date Collected: 23-Apr-2020 14:15	% Solids: 82.1	Date Analyzed : 06-May-20 23:38      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0531			IS 13C-2,3,7,8-TCDD	84.0	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0668			13C-1,2,3,7,8-PeCDD	88.8	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0599			13C-1,2,3,4,7,8-HxCDD	89.8	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0684			13C-1,2,3,6,7,8-HxCDD	87.1	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0802			13C-1,2,3,7,8,9-HxCDD	85.4	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.107			13C-1,2,3,4,6,7,8-HpCDD	83.9	23 - 140	
OCDD	0.590			J	13C-OCDD	69.9	17 - 157	
2,3,7,8-TCDF	ND	0.0427			13C-2,3,7,8-TCDF	79.0	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0353			13C-1,2,3,7,8-PeCDF	93.0	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0349			13C-2,3,4,7,8-PeCDF	91.3	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0374			13C-1,2,3,4,7,8-HxCDF	86.4	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0356			13C-1,2,3,6,7,8-HxCDF	92.9	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0396			13C-2,3,4,6,7,8-HxCDF	89.4	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0621			13C-1,2,3,7,8,9-HxCDF	83.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0694			13C-1,2,3,4,6,7,8-HpCDF	86.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0895			13C-1,2,3,4,7,8,9-HpCDF	82.6	26 - 138	
OCDF	ND	0.0960			13C-OCDF	69.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	85.3	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
 TEQMinWHO2005Dioxin      0.000177

<b>TOTALS</b>								
Total TCDD	ND	0.0531						
Total PeCDD	ND	0.0668						
Total HxCDD	ND	0.0802						
Total HpCDD	ND	0.107						
Total TCDF	0.714							
Total PeCDF	ND		0.173	P				
Total HxCDF	0.0348			P				
Total HpCDF	ND	0.0895						

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

VISTA

**ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY**

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

**Project:** Gasco PDI  
**Client:** NW Natural

2000951

**COC ID:** EGL-20200423-101808  
**Sample Custodian:** CO  
**Lab:** -Anchor Lab Vista

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
<del>021</del>	<del>PDI-158SC-A-04-05-200423</del>	N	SE	<del>04/23/2020</del>	<del>12:50</del>	<del>1</del>	<input type="checkbox"/>	<del>Archive (EGL)</del>	<del>ARCHIVE</del>	<del>-1</del>	<del>-10°C</del>
022	PDI-158SC-A-05-06-200423	N	SE	04/23/2020	12:50	1	<input type="checkbox"/>	Archive (EGL)	ARCHIVE	-1	-10°C
023	PDI-158SC-A-06-07-200423	N	SE	04/23/2020	12:50	1	<input type="checkbox"/>	Archive (EGL)	ARCHIVE	-1	-10°C
024	PDI-158SC-A-07-08-200423	N	SE	04/23/2020	12:50	1	<input type="checkbox"/>	Archive (EGL)	ARCHIVE	-1	-10°C
025	PDI-158SC-A-08-09-200423	N	SE	04/23/2020	12:50	2	<input type="checkbox"/>	Archive (EGL) <i>qs 4/24/20</i>	ARCHIVE	-1	-10°C
026	PDI-158SC-A-09-10-200423	N	SE	04/23/2020	12:50	2	<input type="checkbox"/>	Archive (EGL)	ARCHIVE	-1	-10°C
027	PDI-158SC-A-10-11-200423	N	SE	04/23/2020	12:50	2	<input type="checkbox"/>	Archive (EGL)	ARCHIVE	-1	-10°C
028	PDI-158SC-A-11-12-200423	N	SE	04/23/2020	12:50	2	<input type="checkbox"/>	Archive (EGL)	ARCHIVE	-1	-10°C
<del>029</del>	<del>PDI-158SC-A-12-13-200423</del>	N	SE	<del>04/23/2020</del>	<del>12:50</del>	<del>2</del>	<input type="checkbox"/>	<del>Archive (EGL)</del>	<del>ARCHIVE</del>	<del>-1</del>	<del>-10°C</del>
030	PDI-1159SC-A-01-02-200423	FD	SE	04/23/2020		2	<input type="checkbox"/>	Dioxin/Furans Archive (EGL) <i>qs 4/24/20</i>	ARCHIVE	-1	-10°C

*qs 4/24/20*

Comment:					
Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature <i>Lucas Henry</i>	Signature <i>William R. Wright</i>	Signature	Signature	Signature	Signature
Print Name Lucas Henry	Print Name William R. Wright	Print Name	Print Name	Print Name	Print Name
Company Anchor OEA	Company VA1	Company	Company	Company	Company
Date/Time 4/24/2020 15:00	Date/Time 4-23-20 09:04	Date/Time	Date/Time	Date/Time	Date/Time

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

**ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY**

COC ID:

EGL-20200423-161808

POC: Delaney Peterson (360-715-2707)

Project: Gasco PDI

Sample Custodian:

CO

1605 Cornwall Avenue, Bellingham, WA 98225

Client: NW Natural

2000951 3.40 Lab:

~~Anchor Lab~~ VISTA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
031	PDI-159SC-A-00-01-200423	N	SE	04/23/2020	14:15	2	<input checked="" type="checkbox"/>	Dioxin/Furans + PCB congeners (A) Archive (EGL) 04/24/20	ARCHIVE	-1	-10°C
032	PDI-159SC-A-01-02-200423	N	SE	04/23/2020	14:15	1	<input type="checkbox"/>	Dioxin/Furans Archive (EGL) 04/24/20	ARCHIVE	-1	-10°C
033	PDI-159SC-A-02-03-200423	N	SE	04/23/2020	14:15	1	<input type="checkbox"/>	Dioxin/Furans Archive (EGL) 04/24/20	ARCHIVE	-1	-10°C
034	PDI-159SC-A-03-04-200423	N	SE	04/23/2020	14:15	1	<input type="checkbox"/>	Dioxin/Furans Archive (EGL) 04/24/20	ARCHIVE	-1	-10°C
035	PDI-159SC-A-04-05-200423	N	SE	04/23/2020	14:15	1	<input type="checkbox"/>	Dioxin/Furans Archive (EGL) 04/24/20	ARCHIVE	-1	-10°C
036	PDI-159SC-A-05-06-200423	N	SE	04/23/2020	14:15	1	<input type="checkbox"/>	Dioxin furans Archive (EGL) 04/24/20	ARCHIVE	-1	-10°C
037	PDI-159SC-A-06-07-200423	N	SE	04/23/2020	14:15	1	<input type="checkbox"/>	Dioxin Furans Archive (EGL) 04/24/20	ARCHIVE	-1	-10°C
038	PDI-159SC-A-07-08-200423	N	SE	04/23/2020	14:15	1	<input type="checkbox"/>	Dioxin/Furans Archive (EGL) 04/24/20	ARCHIVE	-1	-10°C
<del>039</del>	<del>PDI-159SC-A-08-09-200423</del>	<del>N</del>	<del>SE</del>	<del>04/23/2020</del>	<del>14:15</del>	<del>2</del>	<input type="checkbox"/>	<del>Archive (EGL)</del>	<del>ARCHIVE</del>	<del>-1</del>	<del>-10°C</del>
<del>040</del>	<del>PDI-159SC-A-09-10-200423</del>	<del>N</del>	<del>SE</del>	<del>04/23/2020</del>	<del>14:15</del>	<del>2</del>	<input type="checkbox"/>	<del>Archive (EGL)</del>	<del>ARCHIVE</del>	<del>-1</del>	<del>-10°C</del>

Comment:

(A) WO 2000954

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature <i>[Signature]</i>	Signature <i>[Signature]</i>	Signature	Signature	Signature	Signature
Print Name Lucas Henry	Print Name William R. Wright	Print Name	Print Name	Print Name	Print Name
Company Anchor/QEA	Company VAL	Company	Company	Company	Company
Date/Time 4/24/2020 1500	Date/Time 4-28-20 09:04	Date/Time	Date/Time	Date/Time	Date/Time

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

# Sample Log-In Checklist

 Page # 1 of 1

 Vista Work Order #: 2000951 TAT 7

Samples Arrival:	Date/Time <u>4-28-20 09:01</u>	Initials: <u>WRW</u>	Location: <u>WR-2</u>
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac
Preservation:	<input checked="" type="checkbox"/> Ice	<input type="checkbox"/> Blue Ice	<input type="checkbox"/> Dry Ice
Temp °C: <u>3.4</u> (uncorrected)	Probe used: Y / <input checked="" type="checkbox"/> N		Thermometer ID: <u>IR-3</u>
Temp °C: <u>3.4</u> (corrected)			
	<input type="checkbox"/> Hand Delivered	<input type="checkbox"/> Other	
			Shelf/Rack: <u>NA</u>

	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>		
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>		
Airbill <u>10/2</u>	<input checked="" type="checkbox"/>		
Trk # <u>7703 3185 9577</u>	<input checked="" type="checkbox"/>		
Shipping Documentation Present?	<input checked="" type="checkbox"/>		
Shipping Container	<input type="checkbox"/> Vista	<input checked="" type="checkbox"/> Client	<input type="checkbox"/> Retain
	<input type="checkbox"/> Return	<input type="checkbox"/> Dispose	
Chain of Custody / Sample Documentation Present? <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Chain of Custody / Sample Documentation Complete?	<input checked="" type="checkbox"/>		
Holding Time Acceptable?	<input checked="" type="checkbox"/>		
Logged In:	Date/Time <u>04/28/20 1321</u>	Initials: <u>YBS</u> <sup>KS</sup> <sub>for KC work</sub>	Location: <u>WR-2</u>
			Shelf/Rack: <u>G5</u>
COC Anomaly/Sample Acceptance Form completed?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Comments: \* Chain custody in cooler 2 of 2

# CoC/Label Reconciliation Report WO# 2000951

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2000951-01	A PDI-1159SC-A-01-02-200423	<input checked="" type="checkbox"/>	23-Apr-20 14:15	Amber Glass, 120 mL	Solid	
2000951-02	A PDI-159SC-A-00-01-200423	<input checked="" type="checkbox"/>	23-Apr-20 14:15	Amber Glass, 120 mL	Solid	
2000951-03	A PDI-159SC-A-01-02-200423	<input checked="" type="checkbox"/>	23-Apr-20 14:15	Amber Glass, 120 mL	Solid	
2000951-04	A PDI-159SC-A-02-03-200423	<input checked="" type="checkbox"/>	23-Apr-20 14:15	Amber Glass, 120 mL	Solid	
2000951-05	A PDI-159SC-A-03-04-200423	<input checked="" type="checkbox"/>	23-Apr-20 14:15	Amber Glass, 120 mL	Solid	
2000951-06	A PDI-159SC-A-04-05-200423	<input checked="" type="checkbox"/>	23-Apr-20 14:15	Amber Glass, 120 mL	Solid	
2000951-07	A PDI-159SC-A-05-06-200423	<input checked="" type="checkbox"/>	23-Apr-20 14:15	Amber Glass, 120 mL	Solid	
2000951-08	A PDI-159SC-A-06-07-200423	<input checked="" type="checkbox"/>	23-Apr-20 14:15	Amber Glass, 120 mL	Solid	
2000951-09	A PDI-159SC-A-07-08-200423	<input checked="" type="checkbox"/>	23-Apr-20 14:15	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:

Verified by/Date: LA 04/28/2020

## **EXTRACTION INFORMATION**

Process Sheet  
 Workorder: **2000951**

Prep Expiration: 2021-04-23  
 Client: Anchor QEA, LLC

Workorder Due: 05-May-20 00:00

TAT: 7

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

Prep Batch: 80D0323

Prep Data Entered: DT 05/02/20  
 Date and Initials

Initial Sequence: SOE0009

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
2000951-01	✓ <input checked="" type="checkbox"/>	PDI-1159SC-A-01-02-200423	28-Apr-20 09:04	WR-2 G-5	DUP
2000951-02	✓ <input checked="" type="checkbox"/>	PDI-159SC-A-00-01-200423	28-Apr-20 09:04	WR-2 G-5	
2000951-03	✓ <input checked="" type="checkbox"/>	PDI-159SC-A-01-02-200423	28-Apr-20 09:04	WR-2 G-5	
2000951-04	✓ <input checked="" type="checkbox"/>	PDI-159SC-A-02-03-200423	28-Apr-20 09:04	WR-2 G-5	
2000951-05	✓ <input checked="" type="checkbox"/>	PDI-159SC-A-03-04-200423	28-Apr-20 09:04	WR-2 G-5	
2000951-06	✓ <input checked="" type="checkbox"/>	PDI-159SC-A-04-05-200423	28-Apr-20 09:04	WR-2 G-5	
2000951-07	✓ <input checked="" type="checkbox"/>	PDI-159SC-A-05-06-200423	28-Apr-20 09:04	WR-2 G-5	
2000951-08	✓ <input checked="" type="checkbox"/>	PDI-159SC-A-06-07-200423	28-Apr-20 09:04	WR-2 G-5	
2000951-09	✓ <input checked="" type="checkbox"/>	PDI-159SC-A-07-08-200423	28-Apr-20 09:04	WR-2 G-5	

WO Comments: **Dioxin - 10g (dry weight)**  
**One dup required per batch of 20 samples**      DT 04/29/20 RE 04/29/20

Pre-Prep Check Out: \_\_\_\_\_

Prep Check Out: \_\_\_\_\_

Prep Reconciled Initials/Date: KS 04/29/2020

Pre-Prep Check In: \_\_\_\_\_

Prep Check In: \_\_\_\_\_

Spike Reconciled Initials/Date: RF 04/29/20

VialBoxID: UGLY



PREPARATION BENCH SHEET

Matrix: Solid

B0D0323

Chemist: DF

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 29-Apr-20 11:28

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisl CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	B0D0323-BLK1	NA	(10.00)	DF RR 04/29/20	DF RR 04/30/20	DF 04/30/20	DF 04/30/20	DF 04/30/20	DF 05/01/20	DF RR 05/01/20
<input type="checkbox"/>	B0D0323-BS1	↓	(10.00)							
<input type="checkbox"/>	B0D0323-DUP1 2000951-01	12.46	12.04			NA	multi-calcd			
<input type="checkbox"/>	2000951-01	12.46	12.82							
<input type="checkbox"/>	2000951-02	16.01	16.80							
<input type="checkbox"/>	2000951-03	12.47	12.95							
<input type="checkbox"/>	2000951-04	12.18	12.33				gray			
<input type="checkbox"/>	2000951-05	12.65	12.77							
<input type="checkbox"/>	2000951-06	10.96	11.05		DF RR 04/30/20	NA	DF 04/30/20	DF 04/30/20	DF 05/01/20	DF RR 05/01/20
<input type="checkbox"/>	2000951-07	11.15	11.25							
<input type="checkbox"/>	2000951-08	12.07	12.30							
<input type="checkbox"/>	2000951-09	12.18	12.26							
<input type="checkbox"/>	2000953-01	11.21	12.04				multi-calcd			
<input type="checkbox"/>	2000953-02	12.28	12.15			DF 04/20/20				
<input type="checkbox"/>	2000953-03	13.90	12.05							

DF 05/01/20

DF 05/01/20

DF 05/01/20

DF 05/01/20

DF 05/01/20

DF 04/29/20

IS Name <u>49</u>	NS Name <u>2</u>	CRS Name <u>2</u>	RS Name <u>2</u>	Cycle Time	APP: SEFUN SOX <u>8DS</u>	Check Out: <u>DF 04/29/20</u>
PCDD/F <u>19I1602, 10mL</u>	PCDD/F <u>18F1913, 10mL</u>	PCDD/F <u>19I1602, 10mL</u>	PCDD/F <u>19I1603, 10mL</u>	Start Date/Time	SOLV: <u>Toluene</u>	Chemist/Date: <u>DF 04/29/20</u>
PCB	PCB	PCB	PCB	<u>04/29/20</u>	Other <u>NA</u>	Check In: <u>DF 04/29/20</u>
PAH	PAH	PAH	PAH	<u>1540</u>	Final Volume(s) <u>20mL</u>	Balance ID: <u>HRMS-8</u>
				<u>04/30/20</u>	* <u>CoCl4</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

0750  
 \* Sample went dry microsoxhlet was broken RR 04/30/20

PREPARATION BENCH SHEET

Matrix: Solid

B0D0323

Chemist: DF

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 29-Apr-20 11:28

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisl CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	2000953-04	12.15	12.12	DF RP 04/29/20	DF RR 04/30/20	NA	DF 04/30/20	DF 04/30/20	DF 05/01/20	DF RP 05/01/20
<input type="checkbox"/>	2000953-05	11.58	12.11	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000953-06	11.85	12.02	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000953-07	11.26	12.14	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000953-08	12.95	12.02	↓	↓	↓	↓	↓	↓	↓

IS Name <u>PCDD/F 19L2301, 10mL</u>	NS Name <u>PCDD/F 18F1913, 10mL</u>	CRS Name <u>PCDD/F 19I1602, 10mL</u>	RS Name <u>PCDD/F 19D1603, 10mL</u>	Cycle Time	APP: SEFUN SOX <u>SDS</u>	Check Out: <u>DF 04/29/20</u>
PCDD/F	PCDD/F	PCDD/F	PCDD/F	Start Date/Time <u>04/29/20</u> <u>1540</u>	SOLV: <u>Toluene</u>	Check In: <u>DF 04/29/20</u>
PCB	PCB	PCB	PCB	Stop Date/Time <u>04/30/20</u> <u>0250</u>	Other <u>NA</u>	Balance ID: <u>HRMS-8</u>
PAH	PAH	PAH	PAH	Final Volume(s) <u>20mL</u> <u>C14</u>		

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

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
2000951-01	12.82 ✓	80.23715	10.2864	20	29-Apr-20 11:28	DFO			Sediment	1613 Full List
2000951-02	16.8 ✓	62.45733	10.4928	20	29-Apr-20 11:28	DFO			Sediment	1613 Full List
2000951-03	12.95 ✓	80.17241	10.3823	20	29-Apr-20 11:28	DFO			Sediment	1613 Full List
2000951-04	12.33 ✓	82.07705	10.1201	20	29-Apr-20 11:28	DFO			Sediment	1613 Full List
2000951-05	10 .	79.04329	7.9043	20	29-Apr-20 11:28	DFO			Sediment	1613 Full List
2000951-06	11.05 ✓	91.21951	10.0798	20	29-Apr-20 11:28	DFO			Sediment	1613 Full List
2000951-07	11.25 ✓	89.70588	10.0919	20	29-Apr-20 11:28	DFO			Sediment	1613 Full List
2000951-08	12.3 ✓	82.85714	10.1914	20	29-Apr-20 11:28	DFO			Sediment	1613 Full List
2000951-09	12.26 ✓	82.10702	10.0663	20	29-Apr-20 11:28	DFO			Sediment	1613 Full List
2000953-01	12.04 ✓	89.21053	10.7409	20	29-Apr-20 11:28	DFO			Sediment	1613 Full List
2000953-02	12.15 ✓	81.42292	9.8929	20	29-Apr-20 11:28	DFO			Sediment	1613 Full List
2000953-03	12.05 ✓	71.92225	8.6666	20	29-Apr-20 11:28	DFO			Sediment	1613 Full List
2000953-04	12.12 ✓	82.30216	9.9750	20	29-Apr-20 11:28	DFO			Sediment	1613 Full List
2000953-05	12.11 ✓	86.35514	10.4576	20	29-Apr-20 11:28	DFO			Sediment	1613 Full List
2000953-06	12.02 ✓	84.35672	10.1397	20	29-Apr-20 11:28	DFO			Sediment	1613 Full List
2000953-07	12.14 ✓	88.81278	10.7819	20	29-Apr-20 11:28	DFO			Sediment	1613 Full List
2000953-08	12.02 ✓	77.23343	9.2835	20	29-Apr-20 11:28	DFO			Sediment	1613 Full List
B0D0323-BLK1	10 ✓			20	29-Apr-20 11:28	DFO				QC
B0D0323-BS1	10 ✓			20	29-Apr-20 11:28	DFO	18F1913 ✓	10 ✓		QC
B0D0323-DUP1	12.5 ✓	80.23715	10.0296438	20	29-Apr-20 11:28	DFO				QC

All bolded data on report verified against written benchsheet by (initial/date) DF 05/02/20

Percent Moisture/ Percent Solids

D2216-90

BATCH ID B0D0307

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

Inst HRMS-9 Date/Time IN: 04/28/20/1544 Date/Time OUT: 04/29/20/0611

Particle Size	SampID	SampType	Initial and Date:		Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	CHT 04/28/20 ✓		pH Before	pH After	Acid Added	Sample Homogenized*
			Pan Tare Wt. (gms)						Visual Inspection	Cl-				
	2000951-01	A ✓	Sample	1.2900 ✓	6.3500 ✓	5.3500 ✓	4.0600	80.24	SOIL ✓	NA	NA	NA	NA	X ✓
	2000951-02	A	Sample	1.3100 ✓	7.1700 ✓	4.9700 ✓	3.6600	62.46	MUD ✓	NA	NA	NA	NA	X
	2000951-03	A	Sample	1.3100 ✓	7.1100 ✓	5.9600 ✓	4.6500	80.17	SOIL ✓	NA	NA	NA	NA	X
	2000951-04	A	Sample	1.3200 ✓	7.2900 ✓	6.2200 ✓	4.9000	82.08	SOIL ✓	NA	NA	NA	NA	X
	2000951-05	A	Sample	1.3100 ✓	5.7000 ✓	4.7800 ✓	3.4700	79.04	SOIL ✓	NA	NA	NA	NA	X
	2000951-06	A	Sample	1.3000 ✓	5.4000 ✓	5.0400 ✓	3.7400	91.22	SOIL ✓	NA	NA	NA	NA	X
	2000951-07	A	Sample	1.3100 ✓	6.0700 ✓	5.5800 ✓	4.2700	89.71	SOIL ✓	NA	NA	NA	NA	X
	2000951-08	A	Sample	1.3300 ✓	6.5800 ✓	5.6800 ✓	4.3500	82.86	SOIL ✓	NA	NA	NA	NA	X
	2000951-09	A	Sample	1.2800 ✓	7.2600 ✓	6.1900 ✓	4.9100	82.11	SOIL ✓	NA	NA	NA	NA	X

\*Sample homogenized in sample container unless otherwise noted.

Percent Moisture/ Percent Solids

D2216-90

BATCH ID B0D0307

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

Inst HRMS-9 Date/Time IN: 04/28/20 1544 Date/Time OUT: 04/29/20 0611

Particle Size	SampleID	Sample Type	Initial and Date:		Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	Visual Inspection	Cl-	pH Before	pH After	Acid Added	Sample Homogenized*
			Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)									
				<u>CHT 04/28/20</u>	<u>CHT 04/29/20</u>			<u>CHT 04/28/20</u>					<u>CHT 04/28/20</u>
	<u>A</u>	Sample	<u>1.29</u>	<u>6.35</u>	<u>5.35</u>			<u>Soil</u>					<u>✓</u>
		Sample	<u>1.31</u>	<u>7.17</u>	<u>4.97</u>			<u>Mod</u>					<u>✓</u>
		Sample	<u>1.31</u>	<u>7.11</u>	<u>5.96</u>			<u>Soil</u>					<u>✓</u>
		Sample	<u>1.32</u>	<u>7.29</u>	<u>6.22</u>					<u>N/A</u>			<u>✓</u>
		Sample	<u>1.31</u>	<u>5.70</u>	<u>4.78</u>		<u>N/A</u>						<u>✓</u>
		Sample	<u>1.30</u>	<u>5.40</u>	<u>5.04</u>								<u>✓</u>
		Sample	<u>1.31</u>	<u>6.07</u>	<u>5.58</u>								<u>✓</u>
		Sample	<u>1.33</u>	<u>6.58</u>	<u>5.68</u>								<u>✓</u>
		Sample	<u>1.28</u>	<u>7.26</u>	<u>6.19</u>								<u>✓</u>

\*Sample homogenized in sample container unless otherwise noted.

Process Sheet  
**Workorder: 2000951**

Prep Expiration: 2021-04-23  
 Client: Anchor QEA, LLC

**Workorder Due: 05-May-20 00:00**

TAT: 7

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

Prep Batch: BOE0015

Prep Data Entered: AO 05/05/20  
Date and Initials

Initial Sequence: SOE0015

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
<del>2000951-01</del>	<input type="checkbox"/>	<del>PDI-1159SC-A-01-02-200423</del>	<del>28-Apr-20 09:04</del>	<del>WR-2 G-5</del>	<del>DUP</del>
2000951-02	<input type="checkbox"/>	PDI-159SC-A-00-01-200423	28-Apr-20 09:04	WR-2 G-5	
2000951-03	<input type="checkbox"/>	PDI-159SC-A-01-02-200423	28-Apr-20 09:04	WR-2 G-5	
<del>2000951-04</del>	<input type="checkbox"/>	<del>PDI-159SC-A-02-03-200423</del>	<del>28-Apr-20 09:04</del>	<del>WR-2 G-5</del>	
2000951-05	<input checked="" type="checkbox"/>	PDI-159SC-A-03-04-200423	28-Apr-20 09:04	WR-2 G-5	
<del>2000951-06</del>	<input type="checkbox"/>	<del>PDI-159SC-A-04-05-200423</del>	<del>28-Apr-20 09:04</del>	<del>WR-2 G-5</del>	
2000951-07	<input type="checkbox"/>	PDI-159SC-A-05-06-200423	28-Apr-20 09:04	WR-2 G-5	
2000951-08	<input type="checkbox"/>	PDI-159SC-A-06-07-200423	28-Apr-20 09:04	WR-2 G-5	
<del>2000951-09</del>	<input type="checkbox"/>	<del>PDI-159SC-A-07-08-200423</del>	<del>28-Apr-20 09:04</del>	<del>WR-2 G-5</del>	

WO Comments: **Dioxin - 10g (dry weight)**  
**One dup required per batch of 20 samples**

D#05/02/20  
RR 05/02/20

Pre-Prep Check Out: \_\_\_\_\_  
 Pre-Prep Check In: \_\_\_\_\_

Prep Check Out: RR 05/02/20  
 Prep Check In: RR 05/02/20

Prep Reconciled Initials/Date: RR 05/02/20

Spike Reconciled Initials/Date: ME 05/02/2020

VialBoxID: Animal Crossing

PREPARATION BENCH SHEET

Matrix: Solid

B0E0015

RR 05/02/20

Chemist: RR

Method: 1613 Full List  
Method: 8290 2.3.7.8s Only

Prepared using: HRMS - Soxhlet

Prep Date/Time: 02-May-20 10:44

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"/>	B0E0015-BLK1	NA	(10.00)	DF RR 05/02/20	AO AC 05/04/20	NA	AO 05/05/20	AZ 05/05/20	AO 05/05/20	AO AZ 05/05/20
<input type="checkbox"/>	B0E0015-BS1	NA	(10.00)							
<input type="checkbox"/>	B0E0015-DUP1 2000950-03	11.29	11.36							
<input type="checkbox"/>	2000927-13RE2	12.90	12.94							
<input type="checkbox"/>	2000932-20RE2	26.35	26.67				brown			
<input type="checkbox"/>	2000950-01	12.65	12.74							
<input type="checkbox"/>	2000950-02	11.08	11.13							
<input type="checkbox"/>	2000950-03	11.29	11.30							
<input type="checkbox"/>	2000950-03 RR 05/02/20									
<input type="checkbox"/>	2000950-04	12.23	12.29			NA	AO 05/05/20		AO 05/05/20	AO AZ 05/05/20
<input type="checkbox"/>	2000950-05	11.96	11.97							
<input type="checkbox"/>	2000950-06	11.00	11.04							
<input type="checkbox"/>	2000950-07	11.00	11.02							
<input type="checkbox"/>	2000950-08	11.64	11.70							
<input type="checkbox"/>	2000950-09	12.76	12.81							

IS Name PCDD/F 14L2301, 10ml	NS Name PCDD/F 18F1013, 10ml	CRS Name PCDD/F 19F1602, 10ml	RS Name PCDD/F 19I1603, 10ml	Cycle Time Start Date/Time 05/02/20 1714	APP: SEFUN SOX (SDS) SOLV: Toluene Other: NA	Check Out: Chemist/Date: RR 05/02/20
PCB	PCB	PCB	PCB	Stop Date/Time 05/03/20 0922	Final Volume(s) C14 20ML	Check In: Chemist/Date: RR 05/02/20
PAH	PAH	PAH	PAH			Balance ID: HRMS-9

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

(3) AZ 05/04/20

PREPARATION BENCH SHEET

Matrix: Solid

BOE0015

Chemist: RR

Method: 1613 Full List  
Method: 8290 2.3.7.8s Only

Prepared using: HRMS - Soxhlet

Prep Date/Time: 02-May-20 10:44

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"/>	2000950-10	11.83	12.88	DF RR 05/02/20 <del>RR 05/22/20</del>	RR 05/04/20	NA	RR 05/05/20	RR 05/05/20	RR 05/05/20	RR 05/05/20
<input type="checkbox"/>	2000950-11	11.22	11.36	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000950-12	12.35	12.52	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000950-13	11.95	12.06	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000951-05RE2	12.65	12.70	↓	↓	↓	↓	↓	↓	↓

IS Name <u>V1</u>	NS Name <u>V2</u>	CRS Name <u>V2</u>	RS Name <u>V1</u>	Cycle Time	APP: SEFUN SOX <u>(SDS)</u>	Check Out: Chemist/Date: <u>RR 05/02/20</u>
PCDD/F <u>1922501, 10mL</u>	PCDD/F <u>18F1913, 10mL</u>	PCDD/F <u>14E1602, 10mL</u>	PCDD/F <u>19TI1603, 10mL</u>	Start Date/Time <u>05/02/20 1714</u>	SOLV: <u>Toluene</u>	Check In: Chemist/Date: <u>RR 05/02/20</u>
PCB _____	PCB _____	PCB _____	PCB _____	Stop Date/Time <u>05/03/20 0922</u>	Other <u>NA</u>	Balance ID: <u>HRMS-9</u>
PAH _____	PAH _____	PAH _____	PAH _____	Final Volume(s) <u>C14 20mL</u>		

\* DF 05/02/20

Comments:

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



Batch: B0E0015

Matrix: Solid

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
2000927-13RE2	12.94 ✓	77.49469	10.0278	20	02-May-20 10:44	RR			Sediment	1613 Full List
2000932-20RE2	26.67 ✓	37.95494	10.1226	20	02-May-20 10:44	RR			Sediment	8290 2,3,7,8s Only
2000950-01	12.74 ✓	79.06977	10.0735	20	02-May-20 10:44	RR			Sediment	1613 Full List
2000950-02	11.13 ✓	90.28436	10.0486	20	02-May-20 10:44	RR			Sediment	1613 Full List
<del>2000950-03</del>	<del>11.3</del>			<del>20</del>	<del>02-May-20 10:44</del>	<del>RR</del>			<del>Sediment</del>	<del>8290 2,3,7,8s Only</del>
2000950-03	11.3 ✓	88.55585	10.0068	20	02-May-20 10:44	RR			Sediment	1613 Full List
2000950-04	12.29 ✓	81.74274	10.0462	20	02-May-20 10:44	RR			Sediment	1613 Full List
2000950-05	11.97 ✓	83.59376	10.0062	20	02-May-20 10:44	RR			Sediment	1613 Full List
2000950-06	11.04 ✓	90.93333	10.0390	20	02-May-20 10:44	RR			Sediment	1613 Full List
2000950-07	11.02 ✓	90.93137	10.0206	20	02-May-20 10:44	RR			Sediment	1613 Full List
2000950-08	11.7 ✓	85.94595	10.0557	20	02-May-20 10:44	RR			Sediment	1613 Full List
2000950-09	12.81 ✓	78.39196	10.0420	20	02-May-20 10:44	RR			Sediment	1613 Full List
2000950-10	12.88 ✓	84.51328	10.8853	20	02-May-20 10:44	RR			Sediment	1613 Full List
2000950-11	11.36 ✓	89.14729	10.1271	20	02-May-20 10:44	RR			Sediment	1613 Full List
2000950-12	12.52 ✓	80.99999	10.1412	20	02-May-20 10:44	RR			Sediment	1613 Full List
2000950-13	12.06 ✓	83.66606	10.0901	20	02-May-20 10:44	RR			Sediment	1613 Full List
2000951-05RE2	12.7 ✓	79.04329	10.0385	20	02-May-20 10:44	RR			Sediment	1613 Full List
B0E0015-BLK1	10			20	02-May-20 10:44	RR				QC
B0E0015-BS1	10			20	02-May-20 10:44	RR	18F1913	10		QC
B0E0015-DUP1	11.36	88.55585	10.0599446	20	02-May-20 10:44	RR				QC

All bolded data on report verified against written benchsheet by (initial/date) AO 05/05/20

Process Sheet  
Workorder: 2000951

RX

OT 05/07/2020

Workorder Due: 05-May-20 00:00

Prep Expiration: 2021-04-23  
Client: Anchor QEA, LLC

TAT: 7

**RUSH!**

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

Prep Batch: BOE0066

Prep Data Entered: AO 05/11/20  
Date and Initials

Initial Sequence: SOE0043

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
<del>2000951-01</del>	<input type="checkbox"/>	<del>PDI-159SC-A-01-02-200423</del>	28-Apr-20 09:04	WR-2 G-5	DUP
<del>2000951-02</del>	<input type="checkbox"/>	<del>PDI-159SC-A-02-01-200423</del>	28-Apr-20 09:04	WR-2 G-5	
2000951-03 A	<input checked="" type="checkbox"/>	PDI-159SC-A-01-02-200423	28-Apr-20 09:04	WR-2 G-5	
<del>2000951-04</del>	<input type="checkbox"/>	<del>PDI-159SC-A-02-03-200423</del>	28-Apr-20 09:04	WR-2 G-5	
<del>2000951-05</del>	<input type="checkbox"/>	<del>PDI-159SC-A-03-04-200423</del>	28-Apr-20 09:04	WR-2 G-5	
<del>2000951-06</del>	<input type="checkbox"/>	<del>PDI-159SC-A-04-05-200423</del>	28-Apr-20 09:04	WR-2 G-5	
<del>2000951-07</del>	<input type="checkbox"/>	<del>PDI-159SC-A-05-06-200423</del>	28-Apr-20 09:04	WR-2 G-5	
<del>2000951-08</del>	<input type="checkbox"/>	<del>PDI-159SC-A-06-07-200423</del>	28-Apr-20 09:04	WR-2 G-5	
<del>2000951-09</del>	<input type="checkbox"/>	<del>PDI-159SC-A-07-08-200423</del>	28-Apr-20 09:04	WR-2 G-5	

WO Comments: Dioxin - 10g (dry weight)  
One dup required per batch of 20 samples

RR 05/08/20

Pre-Prep Check Out: \_\_\_\_\_

Prep Check Out: RR 05/08/20

Prep Reconciled Initials/Date: RR 05/08/20

Pre-Prep Check In: \_\_\_\_\_

Prep Check In: RR 05/08/20

Spike Reconciled Initials/Date: KA 05/08/2020

VialBoxID: Toxic

PREPARATION BENCH SHEET

Matrix: Solid

BOE0066

Chemist: RR

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 08-May-20 12:49

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"/>	BOE0066-BL1 (2)	NA	(10.00)	RR 95 05/08/20	9M AZ 05/10/20	AZ 05/10/20	AO 05/11/20	AO 05/11/20	AO 05/11/20	9M AO 05/11/20
<input type="checkbox"/>	BOE0066-BS1 (A)	NA	(10.00)			↓				
<input type="checkbox"/>	BOE0066-DUP1 2000996-02	16.70	16.79			NA				
<input type="checkbox"/>	2000933-03RE4	17.10	17.17			↓	yellow			
<input type="checkbox"/>	2000951-03RE1	12.47	12.50			↓				
<input type="checkbox"/>	2000996-01	18.46	18.52			AZ 05/10/20				
<input type="checkbox"/>	2000996-02	16.70	16.80			NA				
<input type="checkbox"/>	2000996-03 (B) (E)	17.92	17.92			AZ 05/10/20				NA
<input type="checkbox"/>	2000996-04 (A) (C)	20.95	20.98						AO 05/11/20	9M AO 05/11/20
<input type="checkbox"/>	2000996-05	19.83	19.94			↓				
<input type="checkbox"/>	2000996-06	18.79	18.81							
<input type="checkbox"/>	2000996-07	16.62	16.62			↓				
<input type="checkbox"/>	2000996-08	16.10	16.12			NA				
<input type="checkbox"/>	2000996-09	16.96	17.06			↓				
<input type="checkbox"/>	2000996-10	16.26	16.26			↓				

IS Name (V3)	NS Name (V1)	CRS Name (V1)	RS Name (V1)	Cycle Time	APP: SEFUN SOX (SDS)	Check Out: Chemist/Date: RR 05/08/20
PCDD/F 19L2301, 10mL	PCDD/F 18F1913, 10mL	PCDD/F 19I1602, 10mL	PCDD/F 19I1603, 10mL	Start Date/Time 05/08/20 1604	SOLV: Toluene	Check In: Chemist/Date: RR 05/08/20
PCB	PCB	PCB	PCB	Stop Date/Time 05/09/20 0813	Other NA	Balance ID: HRMS-9
PAH	PAH	PAH	PAH		Final Volume(s) C14 20mL	

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

(E) Reextracting due to not RV to C14 AO 05/11/20

PREPARATION BENCH SHEET

Matrix: Solid

B0E0066

Chemist: RR

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 08-May-20 12:49

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"/>	2000996-11	15.33	15.36	RP AZ 05/08/20	9/11 AZ 05/14/20	NA	AO 05/11/20	AO 05/11/20	AO 05/11/20	EM 05/11/20
<input type="checkbox"/>	2000996-12	16.78	16.80	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000996-13	14.84	14.85	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000996-14	14.87	14.93	↓	↓	AZ 05/10/20	↓	↓	↓	↓
<input type="checkbox"/>	2000996-15	16.47	16.53	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000996-16	16.45	16.51	↓	↓	NA	↓	↓	↓	↓
<input type="checkbox"/>	2000996-17	15.63	15.64	↓	↓	↓	↓	↓	↓	↓

(A) Poured through glass wool to remove boiling chip AZ 05/10/20

(2) AZ 05/10/20

(g) Strange substance appeared while rotovapping. Would not rotovap to dry AZ 05/10/20

(C) Rinsed RB w/ DCM to remove part AZ 05/10/20

(D) Remove portion of AP emulsified white shaking w/ H2O AZ 05/10/20

IS Name	NS Name	CRS Name	RS Name	Cycle Time	APP: SEFUN SOX	Check Out:
PCDD/F 9L230, 10ML	PCDD/F 18F1913, 10ML	PCDD/F 1921602, 10ML	PCDD/F 19, I1003, 10ML	Start Date/Time 05-08-20 1604	SOLV: Toluene	Chemist/Date: RR 05/08/20
PCB	PCB	PCB	PCB	Stop Date/Time 05-08-20 0813	Other: NA	Check In: Chemist/Date: RR 05/08/20
PAH	PAH	PAH	PAH	Final Volume(s) C14 20ML		Balance ID: HRMS-9

Comments:

- 1 = Sample approached dryness on rotovap
- 2 = Sample bumped on rotovap; lost < 5%
- 3 = Sample poured through Na2SO4 to remove water
- 4 = Precipitate present at Final Volume

- 5 = Sample homogenized in secondary container
- 6 = Sample clogged during extraction; pipetted and used Nitrogen to assist

Batch: B0E0066

Matrix: Solid

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
2000933-03RE4	17.17 ✓	58.46905	10.0391	20	08-May-20 12:49	RR			Sediment	1613 Full List
2000951-03RE1	12.5 ✓	80.17241	10.0216	20	08-May-20 12:49	RR			Sediment	1613 Full List
2000996-01	18.52 ✓	54.35294	10.0662	20	08-May-20 12:49	RR			Sediment	1613 Full List
2000996-02	16.8 ✓	59.88593	10.0608	20	08-May-20 12:49	RR			Sediment	1613 Full List
<del>2000996-03</del>	<del>17.92</del>	<del>55.7971</del>	<del>9.9988</del>	<del>20</del>	<del>08-May-20 12:49</del>	<del>RR</del>			<del>Sediment</del>	<del>1613 Full List</del>
2000996-04	20.98 ✓	47.72728	10.0132	20	08-May-20 12:49	RR			Sediment	1613 Full List
2000996-05	19.94 ✓	50.41841	10.0534	20	08-May-20 12:49	RR			Sediment	1613 Full List
2000996-06	18.81 ✓	53.22997	10.0126	20	08-May-20 12:49	RR			Sediment	1613 Full List
2000996-07	16.62 ✓	60.16713	9.9998	20	08-May-20 12:49	RR			Sediment	1613 Full List
2000996-08	16.12 ✓	62.1239	10.0144	20	08-May-20 12:49	RR			Sediment	1613 Full List
2000996-09	17.06 ✓	58.97435	10.0610	20	08-May-20 12:49	RR			Sediment	1613 Full List
2000996-10	16.26 ✓	61.49342	9.9988	20	08-May-20 12:49	RR			Sediment	1613 Full List
2000996-11	15.36 ✓	65.24927	10.0223	20	08-May-20 12:49	RR			Sediment	1613 Full List
2000996-12	16.8 ✓	59.59596	10.0121	20	08-May-20 12:49	RR			Sediment	1613 Full List
2000996-13	14.85 ✓	67.36672	10.0040	20	08-May-20 12:49	RR			Sediment	1613 Full List
2000996-14	14.93 ✓	67.24891	10.0403	20	08-May-20 12:49	RR			Sediment	1613 Full List
2000996-15	16.53 ✓	60.69959	10.0336	20	08-May-20 12:49	RR			Sediment	1613 Full List
2000996-16	16.51 ✓	60.80509	10.0389	20	08-May-20 12:49	RR			Sediment	1613 Full List
2000996-17	15.64 ✓	63.97749	10.0061	20	08-May-20 12:49	RR			Sediment	1613 Full List
B0E0066-BLK1	10			20	08-May-20 12:49	RR				QC
B0E0066-BS1	10			20	08-May-20 12:49	RR	18F1913	10		QC
B0E0066-DUP1	16.79 ✓			20	08-May-20 12:49	RR				QC

All bolded data on report verified against written benchsheet by (initial/date) AO 05/11/20

SAMPLE DATA – EPA METHOD 1613

Dataset: U:\VG12.PRO\Results\200506R2\200506R2-4.qld

Last Altered: Thursday, May 07, 2020 7:39:24 AM Pacific Daylight Time

Printed: Thursday, May 07, 2020 8:37:08 AM Pacific Daylight Time

*GRB 05/07/2020*

*CT 05/11/2020*

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200506R2\_4, Date: 06-May-2020, Time: 15:56:26, ID: B0D0323-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	0.947	10.000	25.991		1.001				0.0880	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.000	31.101		1.001				0.0768	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.000	34.462		1.000				0.0500	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.000	34.558		1.000				0.0543	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.000	34.835		1.000				0.0654	
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.898	10.000	38.340		1.000				0.0952	
7	7 OCDD			NO	0.933	10.000	41.321		1.000				0.117	
8	8 2,3,7,8-TCDF			NO	0.787	10.000	25.042		1.001				0.0683	
9	9 1,2,3,7,8-PeCDF			NO	0.910	10.000	29.788		1.001				0.0523	
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.000	30.789		1.001				0.0479	
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	10.000	33.600		1.000				0.0459	
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.000	33.727		1.000				0.0426	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.000	34.316		1.001				0.0469	
14	14 1,2,3,7,8,9-HxCDF			NO	0.864	10.000	35.176		1.000				0.0783	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.871	10.000	36.949		1.001				0.0529	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.000	38.925		1.000				0.0823	
17	17 OCDF			NO	0.802	10.000	41.502		1.000				0.107	
18	18 13C-2,3,7,8-TCDD	8.15e5	0.79	NO	1.16	10.000	25.954	25.96	1.026	1.027	162.84	81.4	0.268	
19	19 13C-1,2,3,7,8-PeCDD	6.63e5	0.61	NO	0.847	10.000	31.031	31.08	1.227	1.229	181.44	90.7	0.333	
20	20 13C-1,2,3,4,7,8-HxCDD	4.71e5	1.30	NO	0.750	10.000	34.462	34.45	1.014	1.014	198.13	99.1	0.625	
21	21 13C-1,2,3,6,7,8-HxCDD	5.61e5	1.27	NO	0.963	10.000	34.575	34.56	1.017	1.017	183.73	91.9	0.487	
22	22 13C-1,2,3,7,8,9-HxCDD	4.87e5	1.26	NO	0.838	10.000	34.843	34.83	1.025	1.025	183.30	91.7	0.560	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.32e5	1.04	NO	0.641	10.000	38.330	38.33	1.128	1.128	163.33	81.7	0.429	
24	24 13C-OCDD	4.81e5	0.85	NO	0.586	10.000	41.320	41.32	1.216	1.216	258.99	64.7	0.381	
25	25 13C-2,3,7,8-TCDF	9.91e5	0.78	NO	1.03	10.000	25.016	25.02	0.989	0.989	151.11	75.6	0.360	
26	26 13C-1,2,3,7,8-PeCDF	9.74e5	1.59	NO	0.845	10.000	29.724	29.77	1.176	1.177	181.92	91.0	0.817	
27	27 13C-2,3,4,7,8-PeCDF	9.13e5	1.57	NO	0.814	10.000	30.713	30.76	1.215	1.216	177.04	88.5	0.848	
28	28 13C-1,2,3,4,7,8-HxCDF	6.04e5	0.50	NO	1.00	10.000	33.603	33.60	0.989	0.989	189.54	94.8	0.559	
29	29 13C-1,2,3,6,7,8-HxCDF	7.29e5	0.49	NO	1.14	10.000	33.725	33.72	0.992	0.992	202.31	101	0.494	
30	30 13C-2,3,4,6,7,8-HxCDF	6.20e5	0.52	NO	1.02	10.000	34.293	34.28	1.009	1.009	191.41	95.7	0.549	
31	31 13C-1,2,3,7,8,9-HxCDF	4.62e5	0.51	NO	0.845	10.000	35.183	35.18	1.035	1.035	172.70	86.3	0.665	

Dataset: U:\VG12.PRO\Results\200506R2\200506R2-4.qld

Last Altered: Thursday, May 07, 2020 7:39:24 AM Pacific Daylight Time

Printed: Thursday, May 07, 2020 8:37:08 AM Pacific Daylight Time

Name: 200506R2\_4, Date: 06-May-2020, Time: 15:56:26, ID: B0D0323-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	4.50e5	0.44	NO	0.771	10.000	36.913	36.91	1.086	1.086	183.87	91.9	0.643	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.31e5	0.42	NO	0.482	10.000	38.921	38.92	1.145	1.145	151.38	75.7	1.03	
34	34 13C-OCDF	5.27e5	0.92	NO	0.669	10.000	41.490	41.50	1.221	1.221	248.77	62.2	0.418	
35	35 37Cl-2,3,7,8-TCDD	3.06e5			1.10	10.000	25.984	25.98	1.028	1.027	64.593	80.7	0.0982	
36	36 13C-1,2,3,4-TCDD	8.63e5	0.82	NO	1.00	10.000	25.350	25.29	1.000	1.000	200.00	100	0.310	
37	37 13C-1,2,3,4-TCDF	1.27e6	0.79	NO	1.00	10.000	23.560	23.50	1.000	1.000	200.00	100	0.372	
38	38 13C-1,2,3,4,6,9-HxCDF	6.34e5	0.51	NO	1.00	10.000	34.000	33.98	1.000	1.000	200.00	100	0.562	
39	39 Total Tetra-Dioxins				0.947	10.000	24.620		0.000				0.0453	
40	40 Total Penta-Dioxins				0.942	10.000	29.960		0.000				0.0294	
41	41 Total Hexa-Dioxins				0.915	10.000	33.635		0.000				0.0299	
42	42 Total Hepta-Dioxins				0.898	10.000	37.640		0.000				0.0508	
43	43 Total Tetra-Furans				0.787	10.000	23.610		0.000				0.0328	
44	44 1st Func. Penta-Furans				0.910	10.000	27.090		0.000				0.0174	
45	45 Total Penta-Furans				0.910	10.000	29.275		0.000				0.0278	
46	46 Total Hexa-Furans				0.922	10.000	33.555		0.000				0.0301	
47	47 Total Hepta-Furans				0.871	10.000	37.835		0.000				0.0358	



Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200506R2\200506R2-4.qld

Last Altered: Thursday, May 07, 2020 7:39:24 AM Pacific Daylight Time

Printed: Thursday, May 07, 2020 8:37:08 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200506R2\_4, Date: 06-May-2020, Time: 15:56:26, ID: B0D0323-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\200506R2\200506R2-4.qld

Last Altered: Thursday, May 07, 2020 7:39:24 AM Pacific Daylight Time

Printed: Thursday, May 07, 2020 8:37:08 AM Pacific Daylight Time

Name: 200506R2\_4, Date: 06-May-2020, Time: 15:56:26, ID: B0D0323-BLK1 Method Blank 10, Description: Method Blank

**Penta-Furans**

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

**Hexa-Furans**

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

**Hepta-Furans**

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

Dataset: Untitled

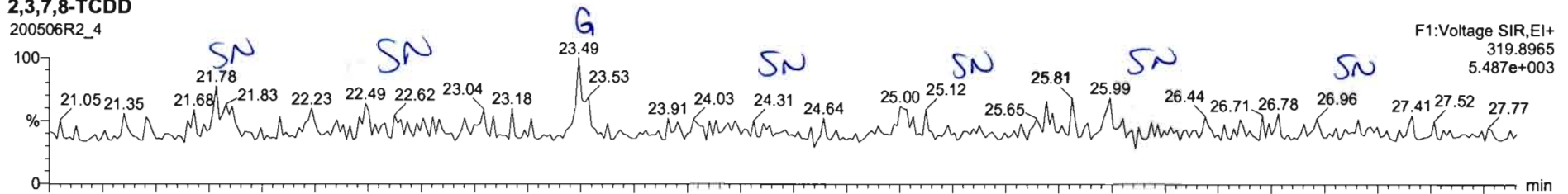
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Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02  
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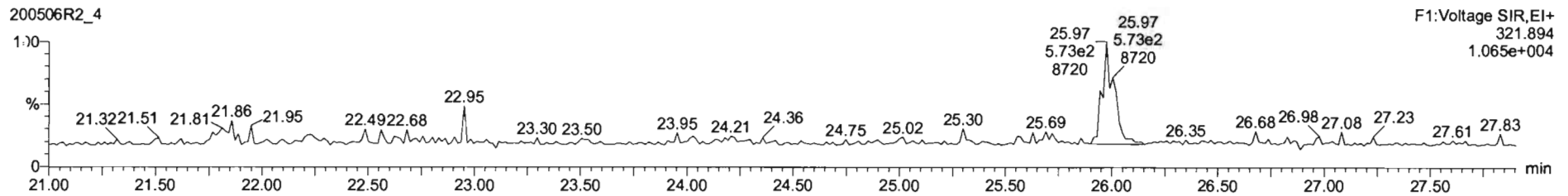
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2,3,7,8-TCDD

200506R2\_4

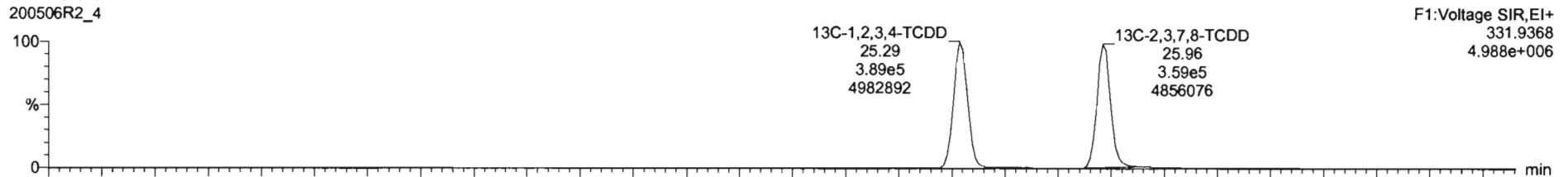


200506R2\_4

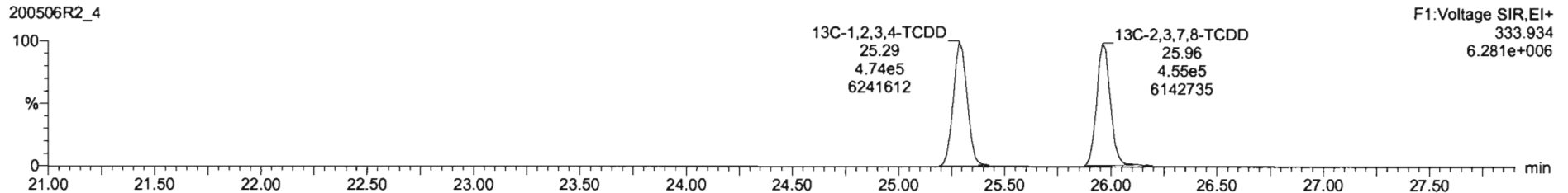


13C-2,3,7,8-TCDD

200506R2\_4



200506R2\_4



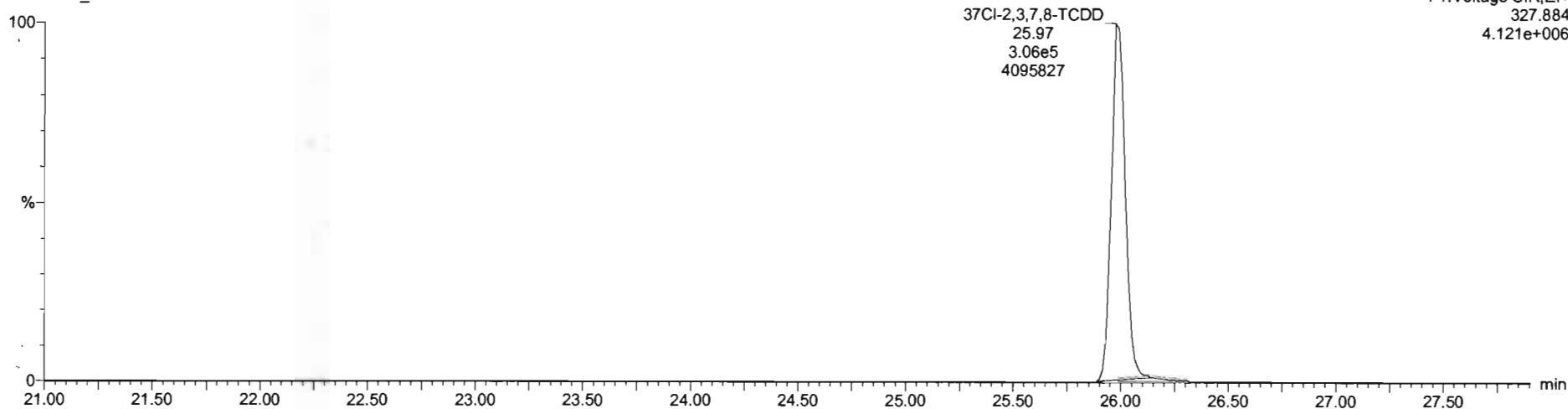
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Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

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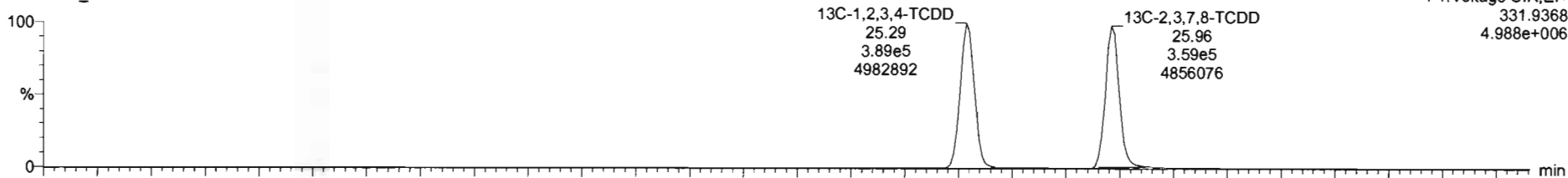
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200506R2\_4

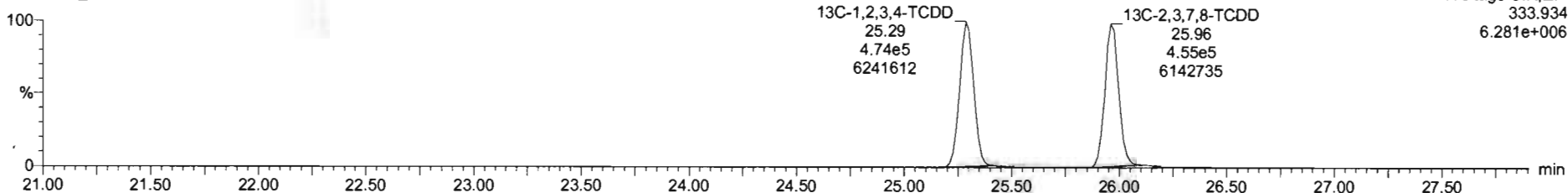


**13C-1,2,3,4-TCDD**

200506R2\_4



200506R2\_4



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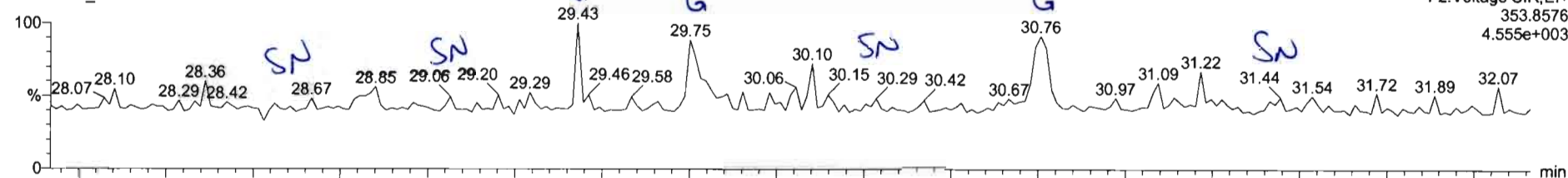
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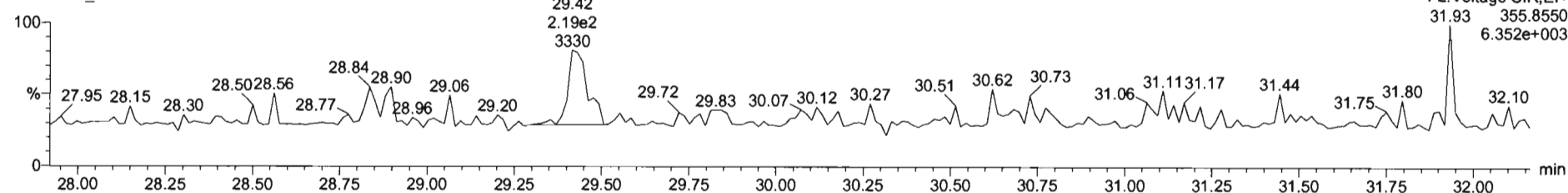
1,2,3,7,8-PeCDD

200506R2\_4



F2: Voltage SIR, EI+  
353.8576  
4.555e+003

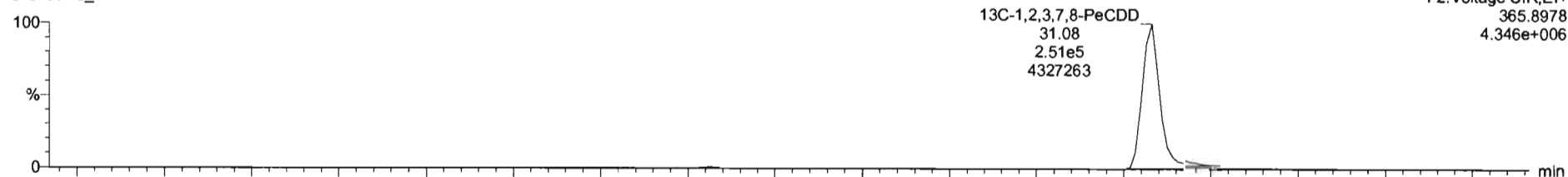
200506R2\_4



F2: Voltage SIR, EI+  
31.93 355.8550  
6.352e+003

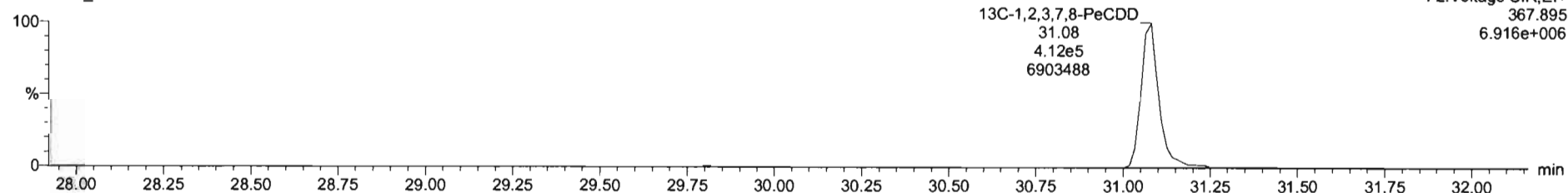
13C-1,2,3,7,8-PeCDD

200506R2\_4



F2: Voltage SIR, EI+  
31.08 365.8978  
4.346e+006

200506R2\_4



F2: Voltage SIR, EI+  
31.08 367.895  
6.916e+006

Dataset: Untitled

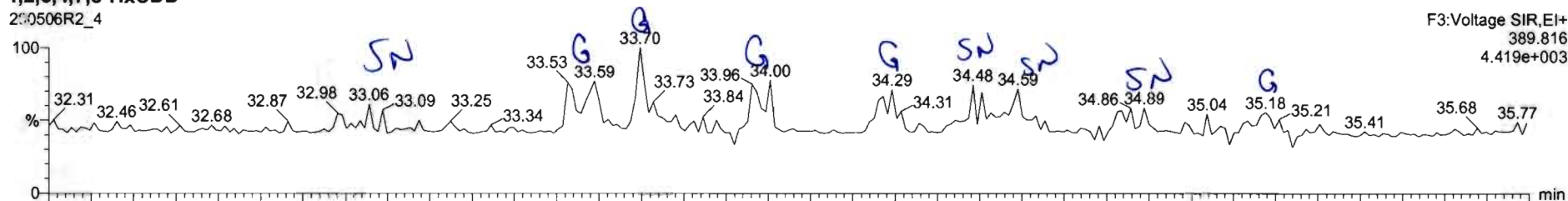
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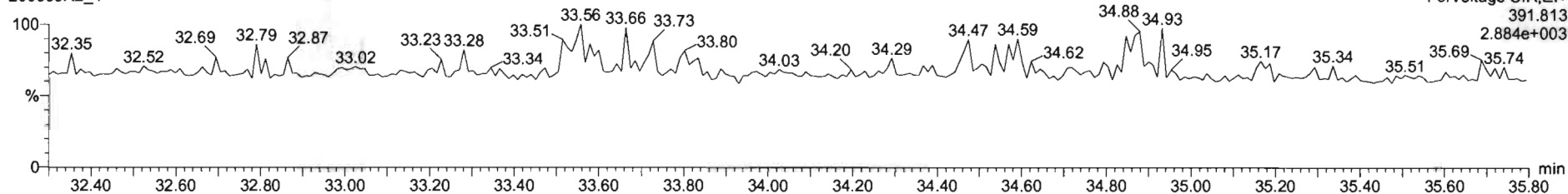
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1,2,3,4,7,8-HxCDD

200506R2\_4

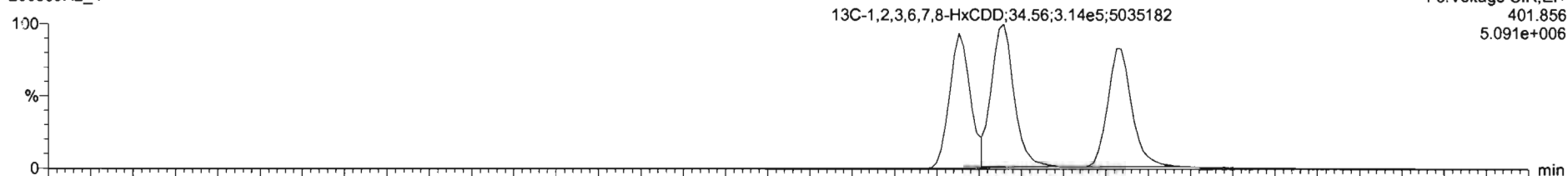


200506R2\_4

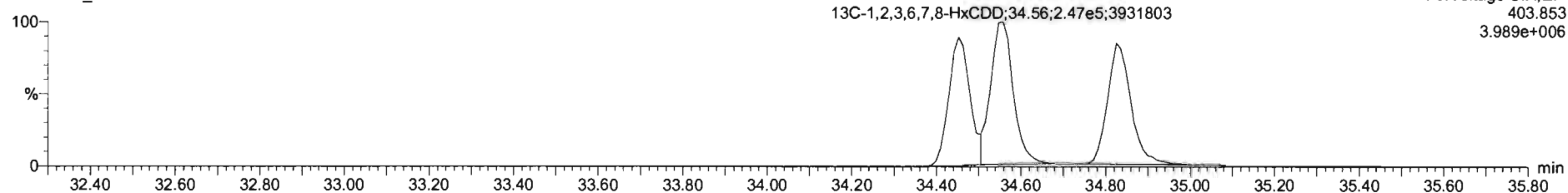


13C-1,2,3,4,7,8-HxCDD

200506R2\_4



200506R2\_4



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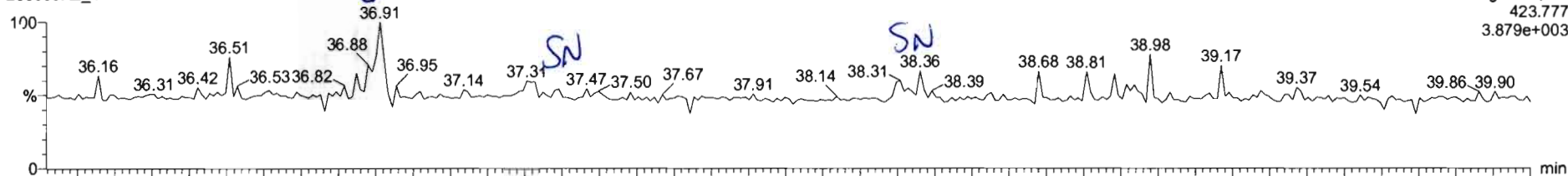
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Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

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

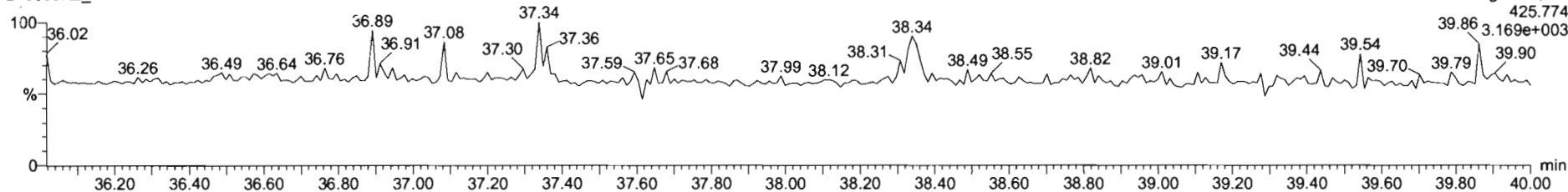
200506R2\_4

F4:Voltage SIR,EI+  
423.777  
3.879e+003



200506R2\_4

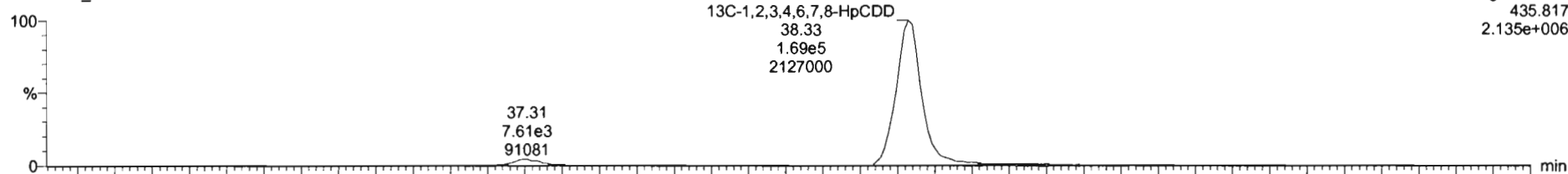
F4:Voltage SIR,EI+  
425.774  
3.169e+003



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

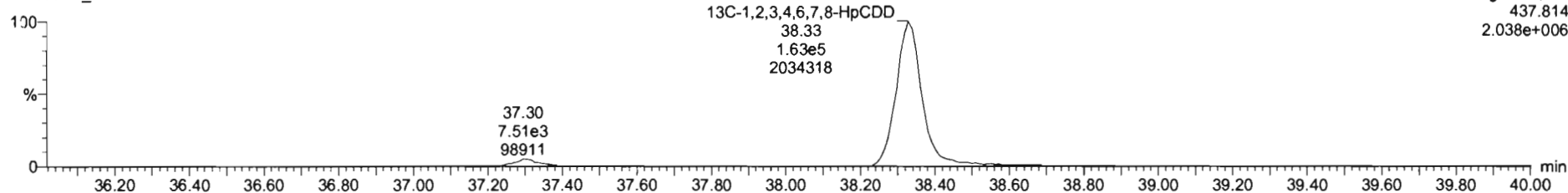
200506R2\_4

F4:Voltage SIR,EI+  
435.817  
2.135e+006



200506R2\_4

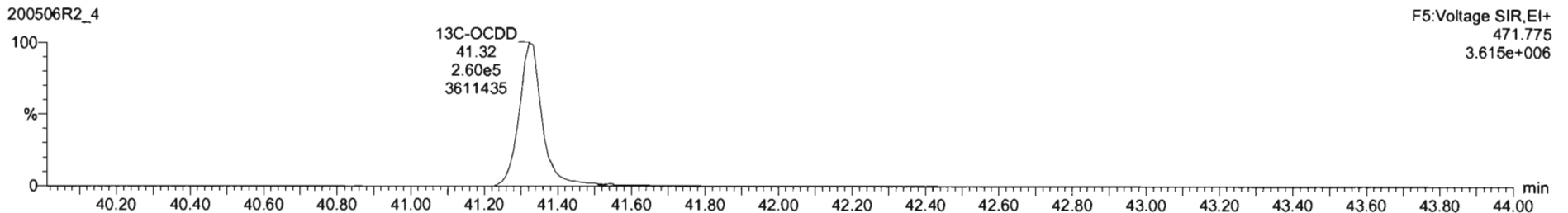
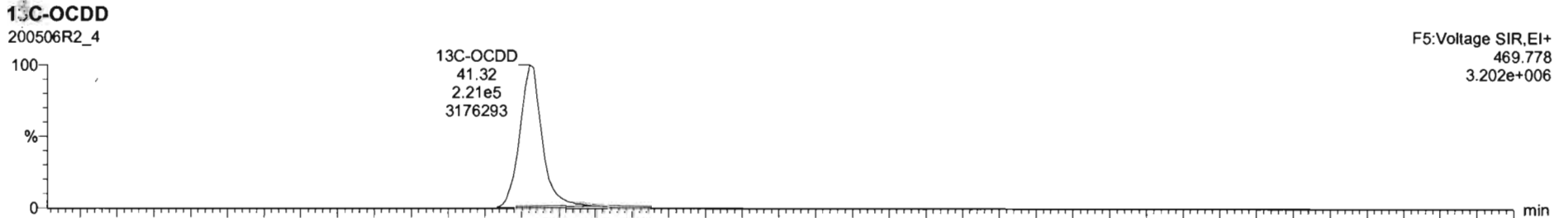
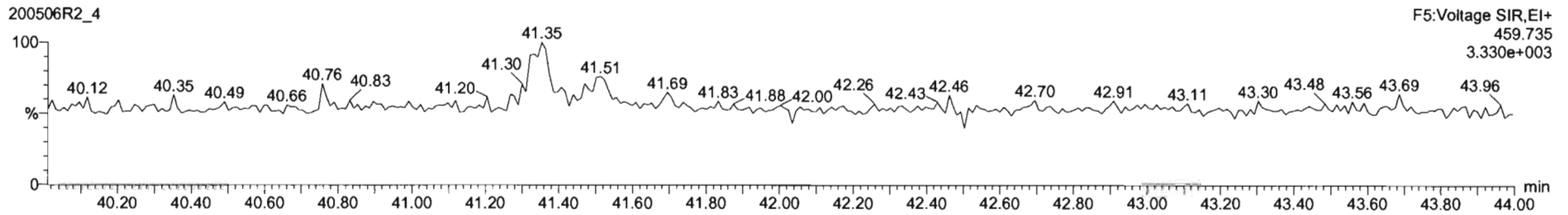
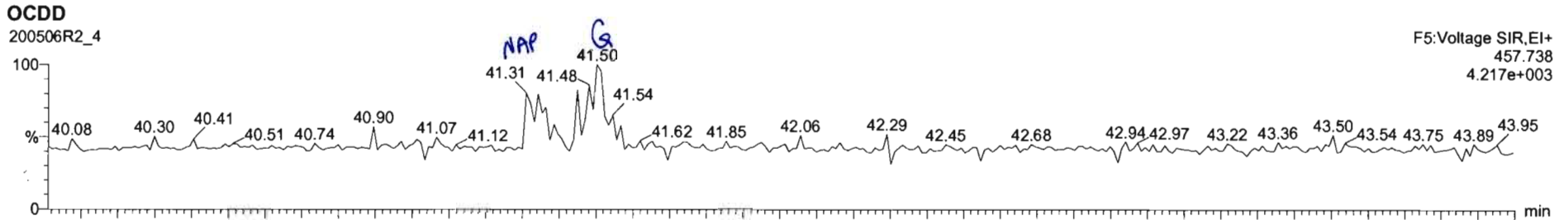
F4:Voltage SIR,EI+  
437.814  
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Dataset: Untitled

Last Altered: Thursday, May 07, 2020 7:18:10 AM Pacific Daylight Time  
Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

Name: 200506R2\_4, Date: 06-May-2020, Time: 15:56:26, ID: B0D0323-BLK1 Method Blank 10, Description: Method Blank



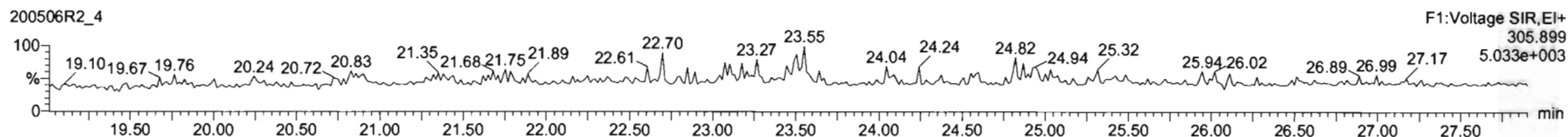
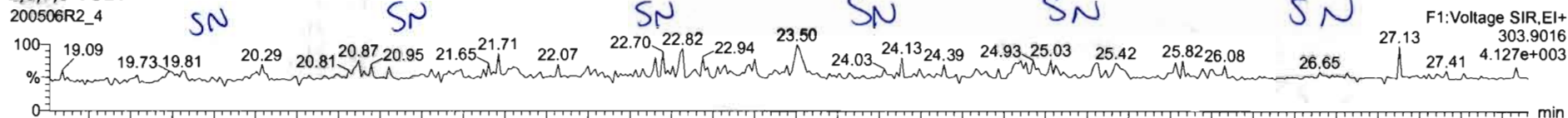


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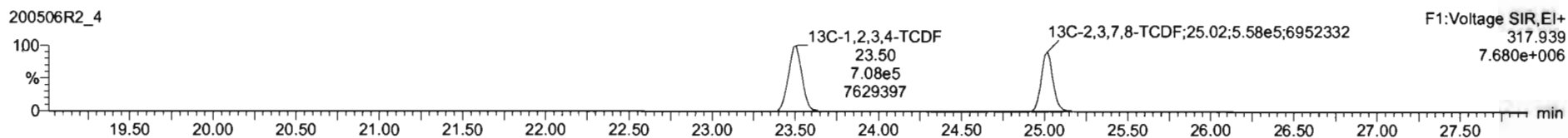
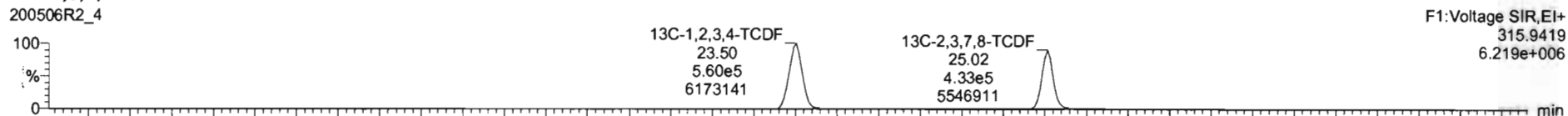
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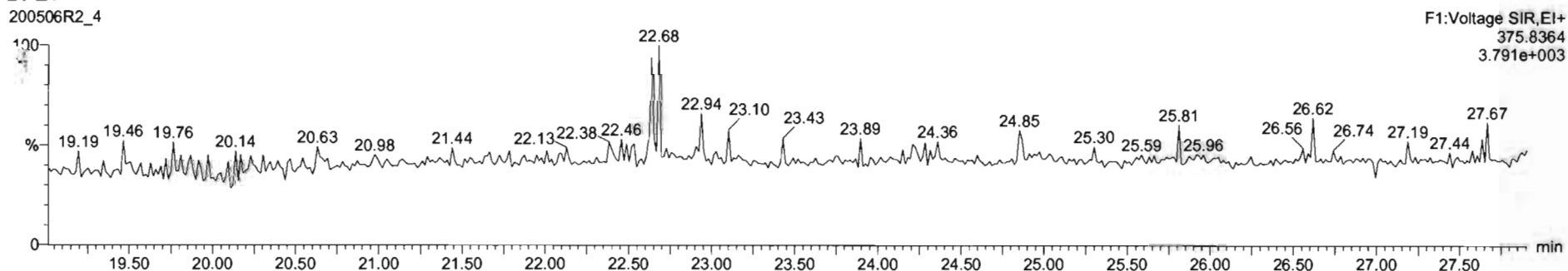
2,3,7,8-TCDF



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



DPE1



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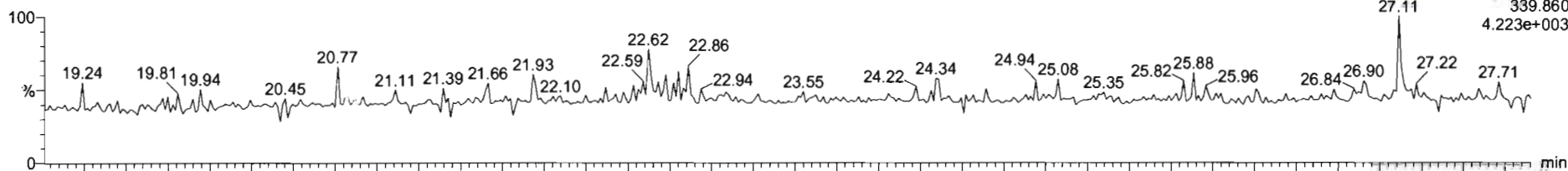
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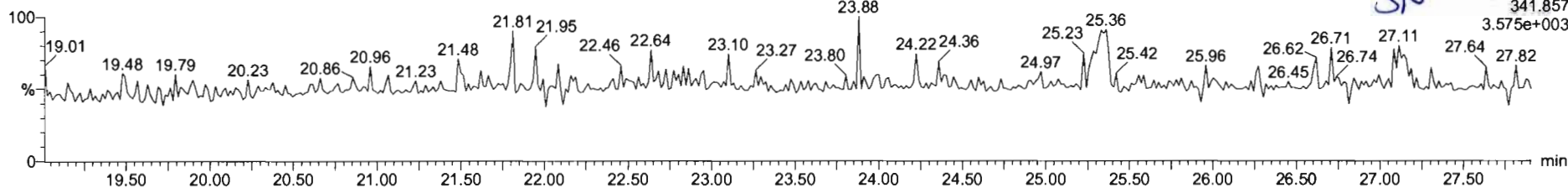
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1st Func. Penta-Furans

200506R2\_4

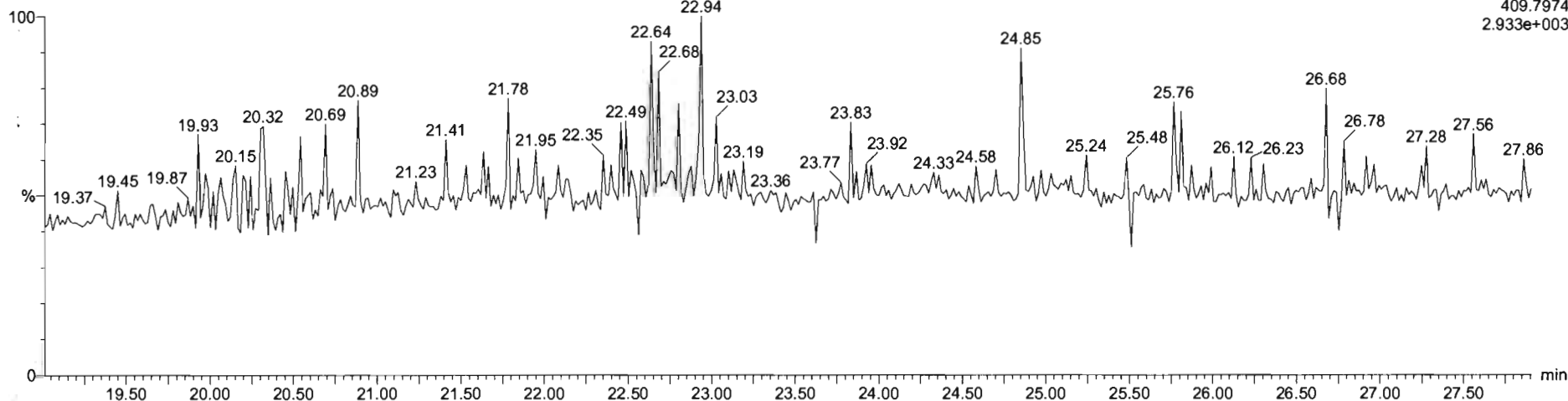


200506R2\_4



DPE6

200506R2\_4

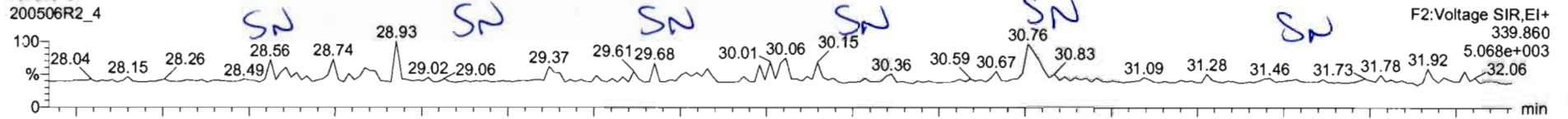


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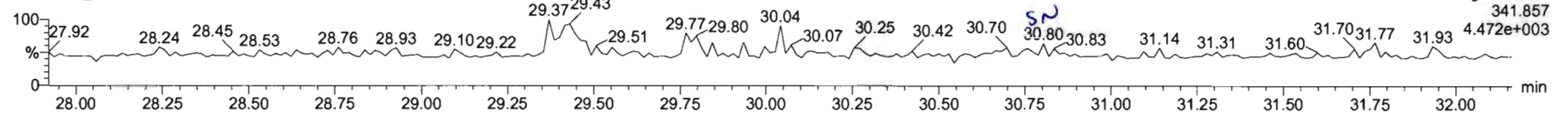
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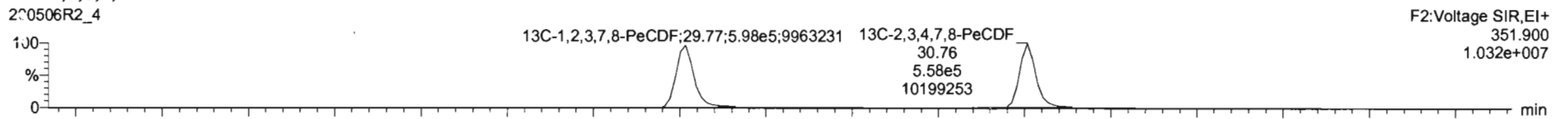
1,2,3,7,8-PeCDF



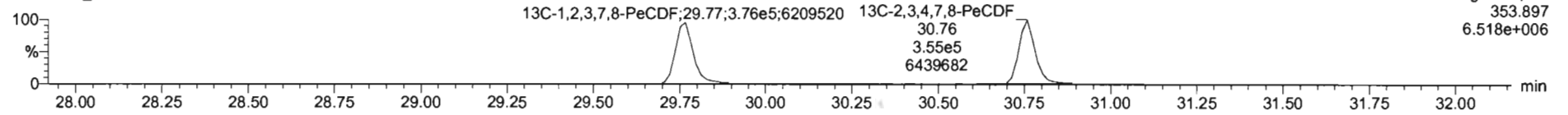
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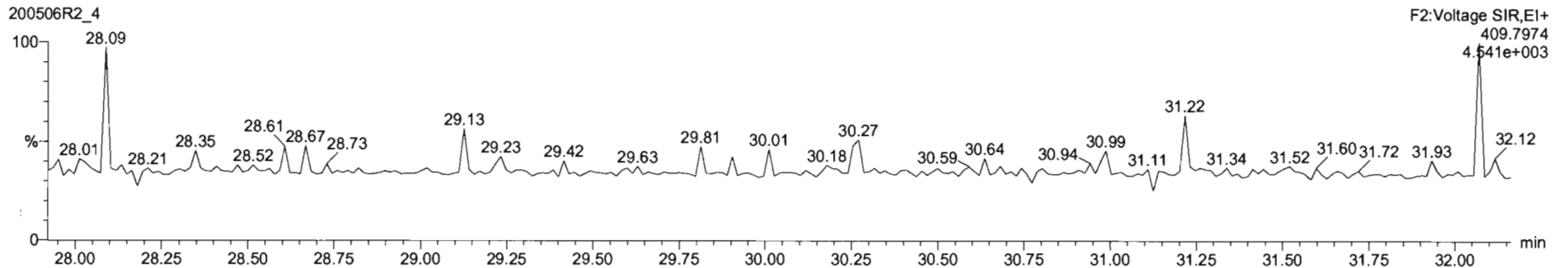
13C-1,2,3,7,8-PeCDF



200506R2\_4



DPE2

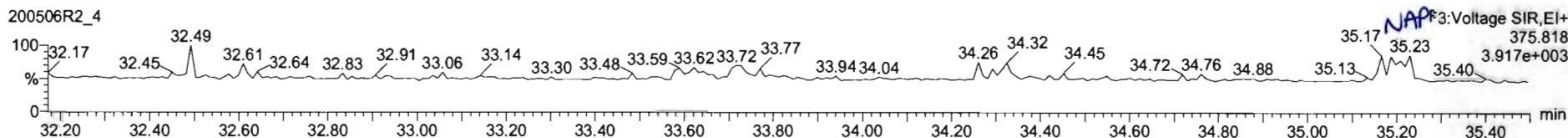
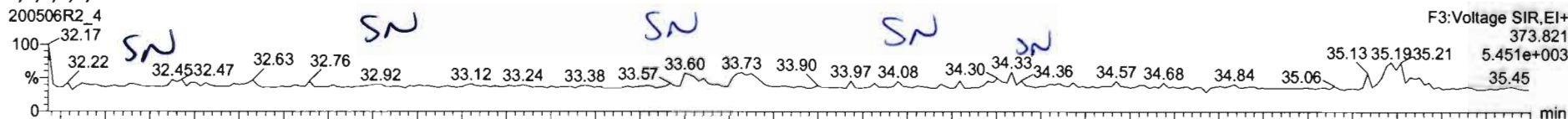


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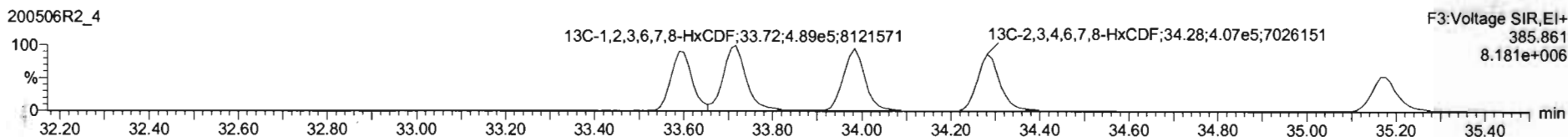
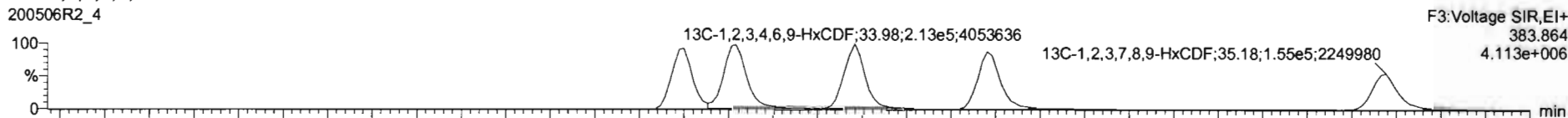
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Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

Name: 200506R2\_4, Date: 06-May-2020, Time: 15:56:26, ID: B0D0323-BLK1 Method Blank 10, Description: Method Blank

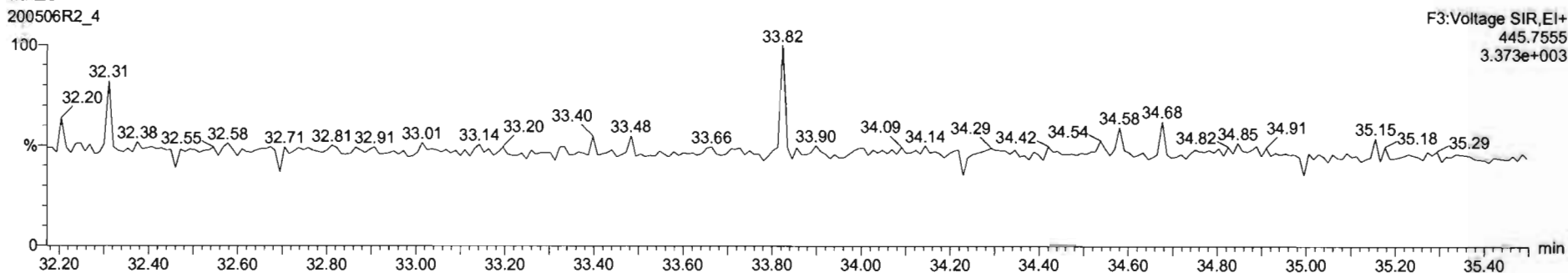
1,2,3,4,7,8-HxCDF



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



DPE3

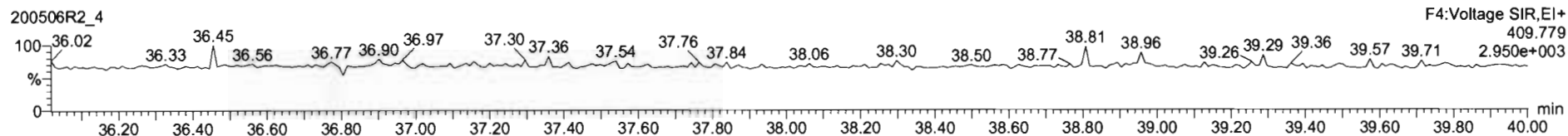
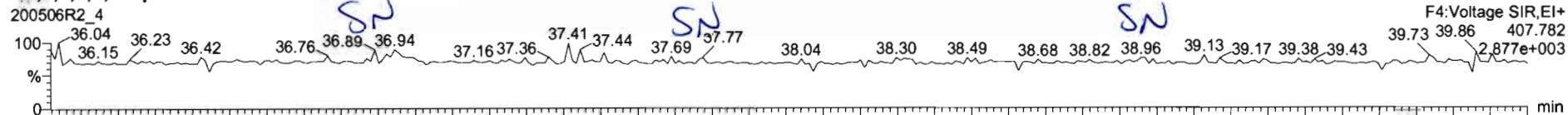


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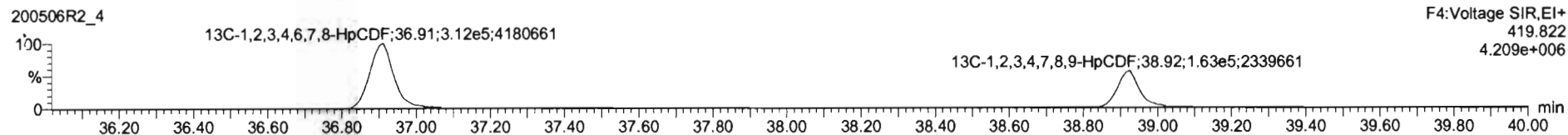
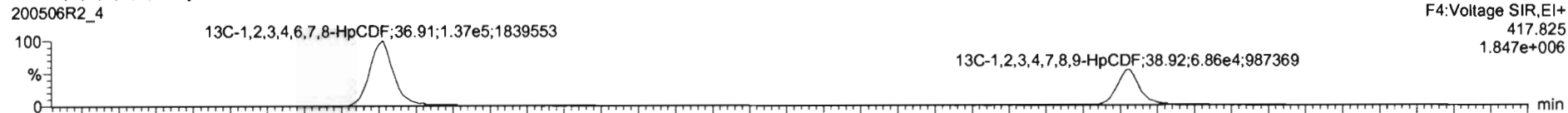
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Name: 200506R2\_4, Date: 06-May-2020, Time: 15:56:26, ID: B0D0323-BLK1 Method Blank 10, Description: Method Blank

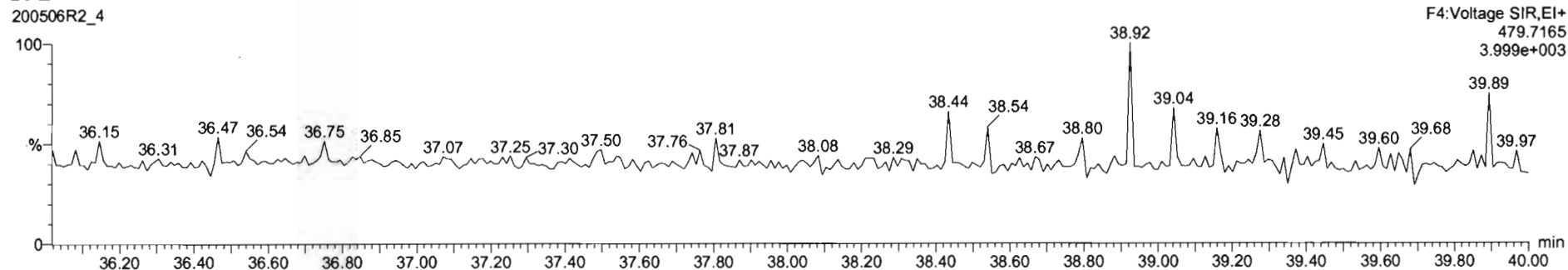
1,2,3,4,6,7,8-HpCDF



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



DPE4



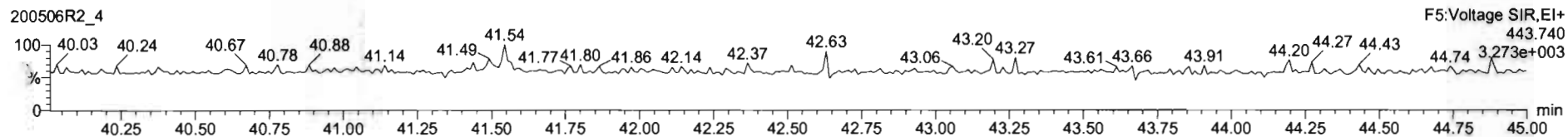
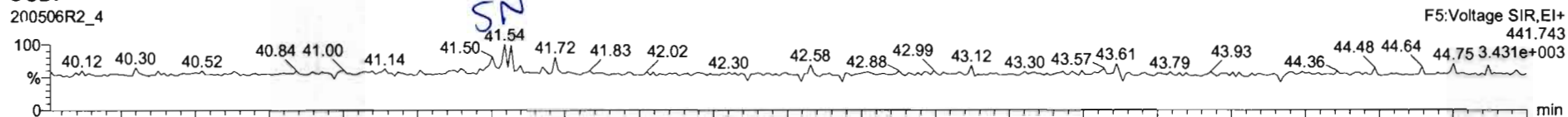
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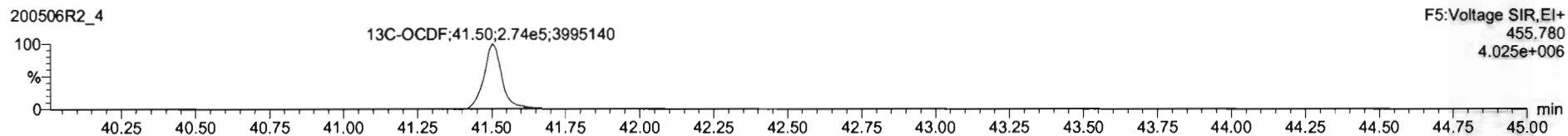
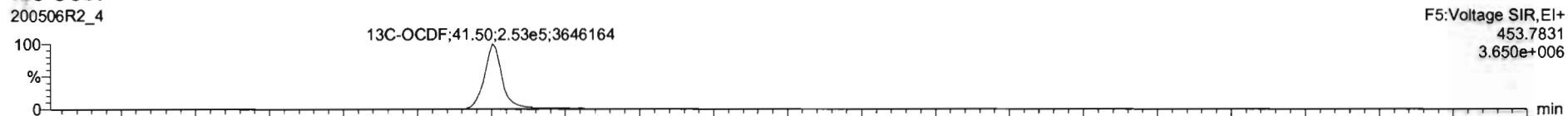
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Name: 200506R2\_4, Date: 06-May-2020, Time: 15:56:26, ID: B0D0323-BLK1 Method Blank 10, Description: Method Blank

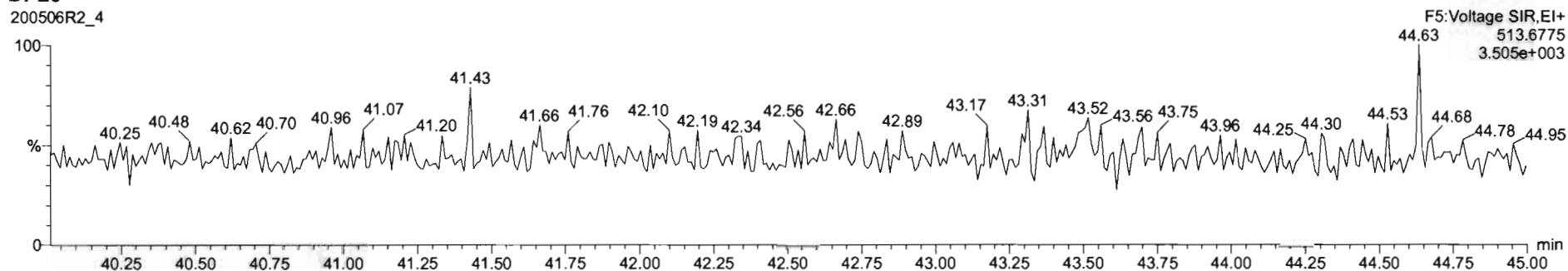
OCDF



13C-OCDF



DPE5

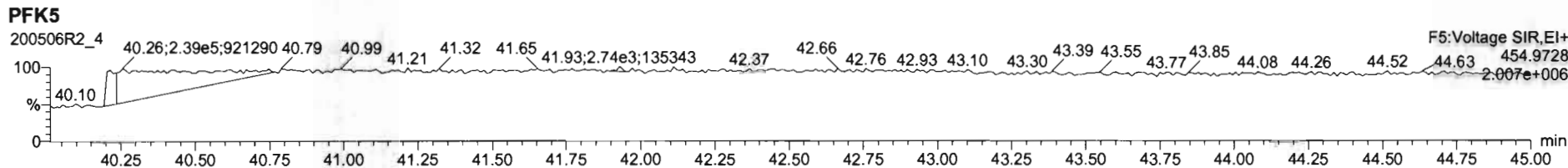
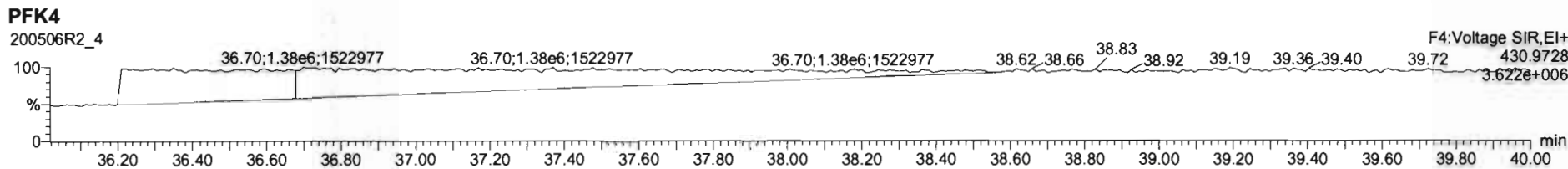
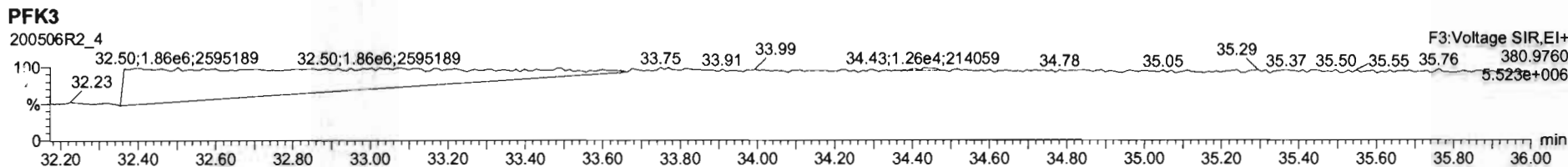
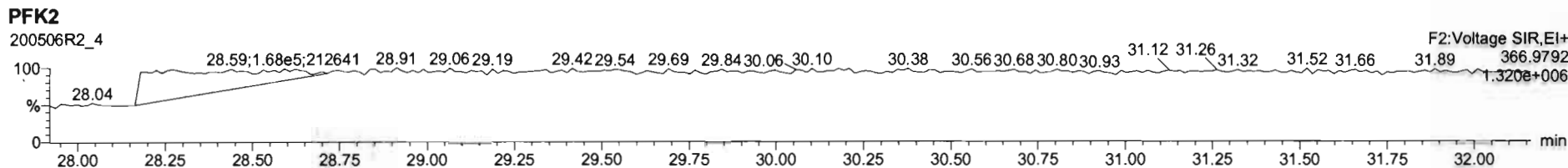
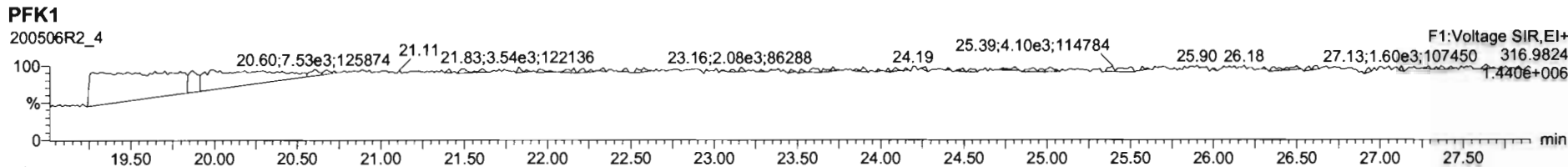


Dataset: Untitled

Last Altered: Thursday, May 07, 2020 7:18:10 AM Pacific Daylight Time

Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

Name: 200506R2\_4, Date: 06-May-2020, Time: 15:56:26, ID: B0D0323-BLK1 Method Blank 10, Description: Method Blank



Dataset: U:\VG12.PRO\Results\200506R2\200506R2-2.qld

Last Altered: Thursday, May 07, 2020 8:28:17 AM Pacific Daylight Time

Printed: Thursday, May 07, 2020 8:28:59 AM Pacific Daylight Time

*GPB 05/07/2020*

*CT 05/11/2020*

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200506R2\_2, Date: 06-May-2020, Time: 14:23:12, ID: B0D0323-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	5.19e4	0.76	NO	0.947	10.000	26.006	25.99	1.001	1.001	17.564		0.164	17.6
2	2 1,2,3,7,8-PeCDD	2.24e5	0.62	NO	0.942	10.000	31.101	31.09	1.001	1.000	89.397		0.249	89.4
3	3 1,2,3,4,7,8-HxCDD	1.96e5	1.23	NO	1.06	10.000	34.462	34.46	1.000	1.000	93.196		0.281	93.2
4	4 1,2,3,6,7,8-HxCDD	2.16e5	1.24	NO	0.915	10.000	34.559	34.57	1.000	1.000	96.377		0.302	96.4
5	5 1,2,3,7,8,9-HxCDD	1.90e5	1.21	NO	0.915	10.000	34.845	34.85	1.000	1.000	95.446		0.355	95.4
6	6 1,2,3,4,6,7,8-HpCDD	1.30e5	1.02	NO	0.898	10.000	38.340	38.35	1.000	1.001	96.092		0.379	96.1
7	7 OCDD	2.01e5	0.86	NO	0.933	10.000	41.322	41.33	1.000	1.000	195.73		0.348	196
8	8 2,3,7,8-TCDF	5.56e4	0.76	NO	0.787	10.000	25.042	25.05	1.001	1.001	18.941		0.157	18.9
9	9 1,2,3,7,8-PeCDF	3.25e5	1.59	NO	0.910	10.000	29.788	29.78	1.001	1.001	94.002		0.330	94.0
10	10 2,3,4,7,8-PeCDF	3.30e5	1.54	NO	0.966	10.000	30.789	30.77	1.001	1.001	91.828		0.317	91.8
11	11 1,2,3,4,7,8-HxCDF	2.24e5	1.22	NO	0.878	10.000	33.600	33.61	1.000	1.000	101.24		0.435	101
12	12 1,2,3,6,7,8-HxCDF	2.77e5	1.20	NO	0.874	10.000	33.727	33.74	1.000	1.001	103.67		0.391	104
13	13 2,3,4,6,7,8-HxCDF	2.58e5	1.20	NO	0.922	10.000	34.326	34.30	1.001	1.000	103.62		0.435	104
14	14 1,2,3,7,8,9-HxCDF	1.72e5	1.27	NO	0.864	10.000	35.176	35.19	1.000	1.000	100.62		0.749	101
15	15 1,2,3,4,6,7,8-HpCDF	1.77e5	1.02	NO	0.871	10.000	36.949	36.92	1.001	1.000	102.77		0.739	103
16	16 1,2,3,4,7,8,9-HpCDF	1.06e5	1.02	NO	1.01	10.000	38.915	38.94	1.000	1.001	101.45		1.10	101
17	17 OCDF	1.99e5	0.87	NO	0.802	10.000	41.503	41.51	1.000	1.000	199.24		0.440	199
18	18 13C-2,3,7,8-TCDD	6.24e5	0.77	NO	1.16	10.000	25.954	25.98	1.026	1.027	112.33	56.2	0.204	
19	19 13C-1,2,3,7,8-PeCDD	5.31e5	0.62	NO	0.847	10.000	31.031	31.08	1.227	1.229	130.91	65.5	0.290	
20	20 13C-1,2,3,4,7,8-HxCDD	3.96e5	1.27	NO	0.750	10.000	34.463	34.45	1.014	1.014	146.53	73.3	0.590	
21	21 13C-1,2,3,6,7,8-HxCDD	4.91e5	1.28	NO	0.963	10.000	34.575	34.56	1.017	1.017	141.50	70.7	0.459	
22	22 13C-1,2,3,7,8,9-HxCDD	4.36e5	1.23	NO	0.838	10.000	34.844	34.83	1.025	1.025	144.43	72.2	0.528	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.02e5	0.99	NO	0.641	10.000	38.331	38.33	1.128	1.128	130.92	65.5	0.538	
24	24 13C-OCDD	4.40e5	0.90	NO	0.586	10.000	41.321	41.32	1.216	1.216	208.61	52.2	0.300	
25	25 13C-2,3,7,8-TCDF	7.46e5	0.78	NO	1.03	10.000	25.015	25.02	0.989	0.989	101.35	50.7	0.317	
26	26 13C-1,2,3,7,8-PeCDF	7.59e5	1.60	NO	0.845	10.000	29.724	29.77	1.176	1.177	126.23	63.1	0.642	
27	27 13C-2,3,4,7,8-PeCDF	7.44e5	1.61	NO	0.814	10.000	30.712	30.76	1.215	1.216	128.35	64.2	0.666	
28	28 13C-1,2,3,4,7,8-HxCDF	5.03e5	0.51	NO	1.00	10.000	33.603	33.60	0.989	0.989	139.14	69.6	0.524	
29	29 13C-1,2,3,6,7,8-HxCDF	6.12e5	0.51	NO	1.14	10.000	33.726	33.72	0.992	0.992	149.45	74.7	0.463	
30	30 13C-2,3,4,6,7,8-HxCDF	5.39e5	0.52	NO	1.02	10.000	34.293	34.29	1.009	1.009	146.56	73.3	0.515	
31	31 13C-1,2,3,7,8,9-HxCDF	3.96e5	0.48	NO	0.845	10.000	35.184	35.18	1.035	1.035	130.15	65.1	0.623	



Dataset: U:\VG12.PRO\Results\200506R2\200506R2-2.qld

Last Altered: Thursday, May 07, 2020 8:28:17 AM Pacific Daylight Time

Printed: Thursday, May 07, 2020 8:28:59 AM Pacific Daylight Time

Name: 200506R2\_2, Date: 06-May-2020, Time: 14:23:12, ID: B0D0323-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	3.95e5	0.43	NO	0.771	10.000	36.913	36.91	1.086	1.086	142.19	71.1	0.485	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.06e5	0.43	NO	0.482	10.000	38.922	38.92	1.145	1.145	118.57	59.3	0.775	
34	34 13C-OCDF	4.99e5	0.85	NO	0.669	10.000	41.491	41.50	1.221	1.221	207.40	51.8	0.349	
35	35 37Cl-2,3,7,8-TCDD	2.47e5			1.10	10.000	25.984	25.99	1.028	1.028	47.024	58.8	0.0514	
36	36 13C-1,2,3,4-TCDD	9.58e5	0.79	NO	1.00	10.000	25.350	25.29	1.000	1.000	200.00	100	0.237	
37	37 13C-1,2,3,4-TCDF	1.42e6	0.78	NO	1.00	10.000	23.560	23.50	1.000	1.000	200.00	100	0.328	
38	38 13C-1,2,3,4,6,9-HxCDF	7.20e5	0.51	NO	1.00	10.000	34.000	33.98	1.000	1.000	200.00	100	0.526	

Dataset: Untitled

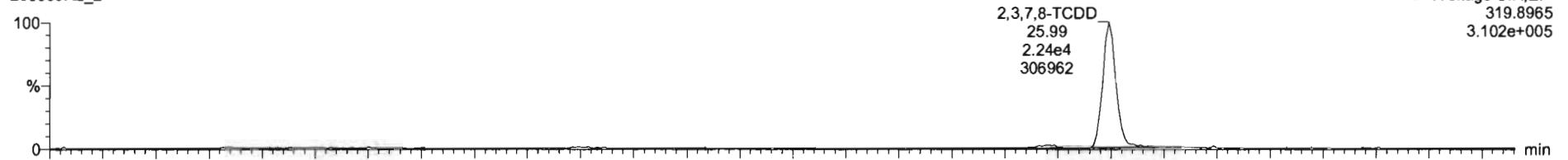
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Printed: Thursday, May 07, 2020 7:39:06 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02  
Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

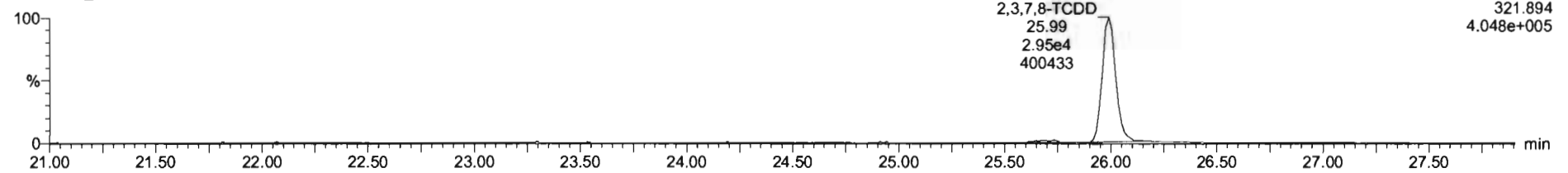
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**2,3,7,8-TCDD**

200506R2\_2

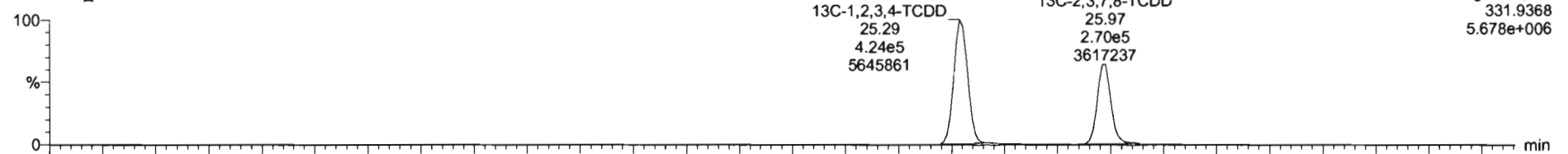


200506R2\_2

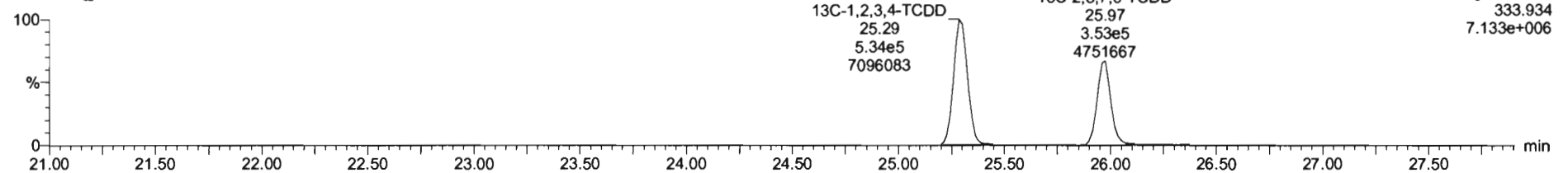


**13C-2,3,7,8-TCDD**

200506R2\_2



200506R2\_2



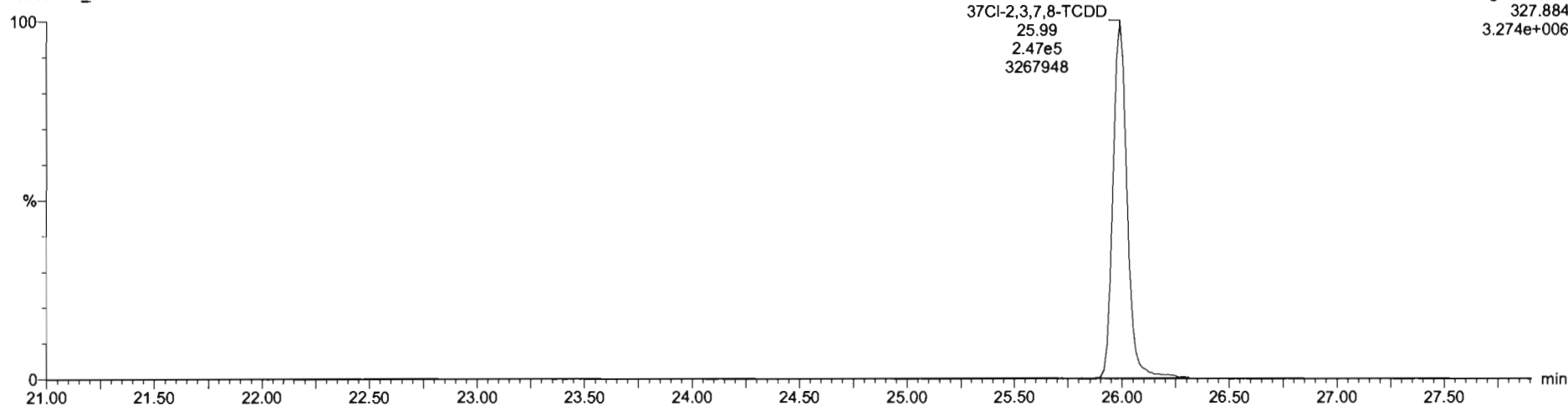
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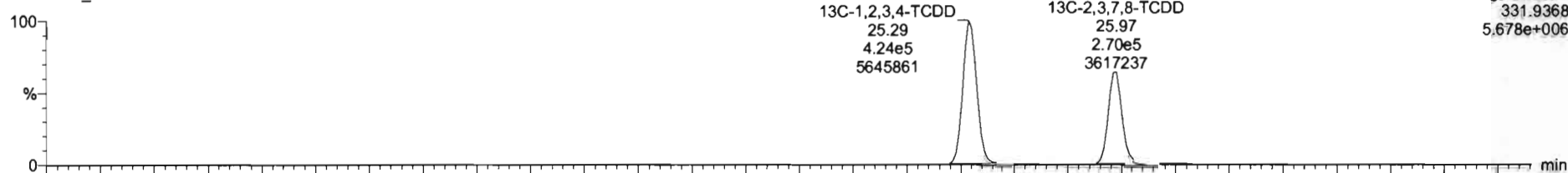
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200506R2\_2

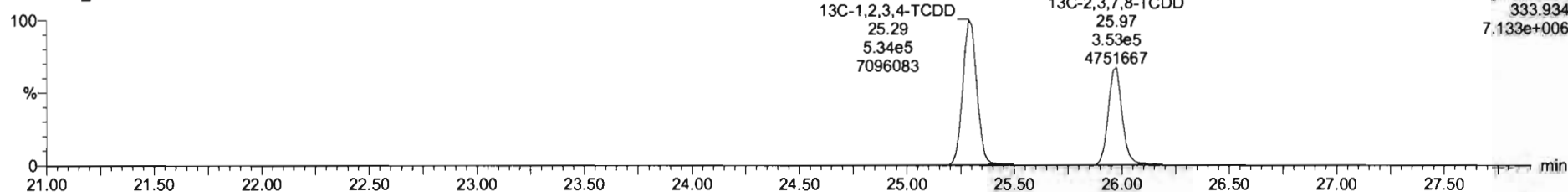


**13C-1,2,3,4-TCDD**

200506R2\_2



200506R2\_2



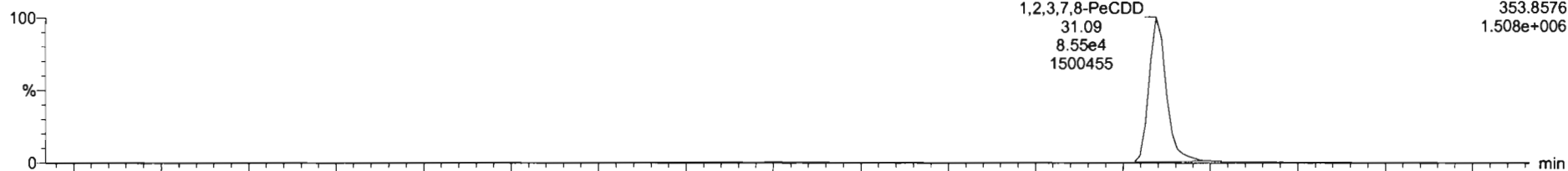
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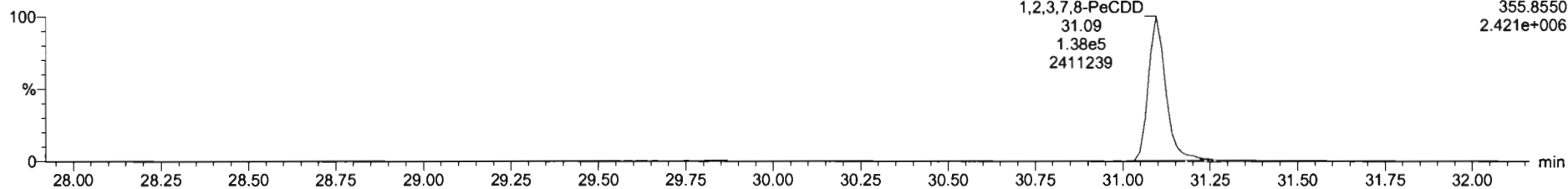
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1,2,3,7,8-PeCDD

200506R2\_2

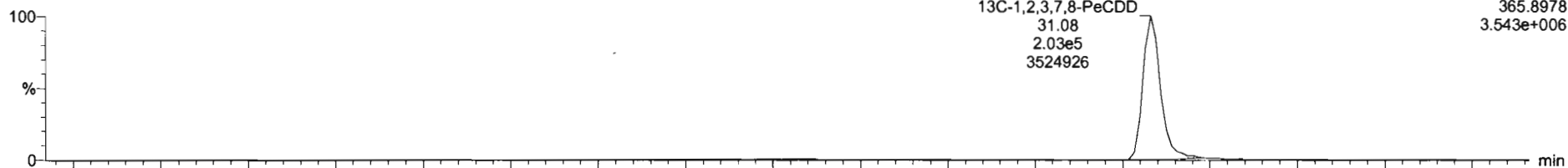


200506R2\_2

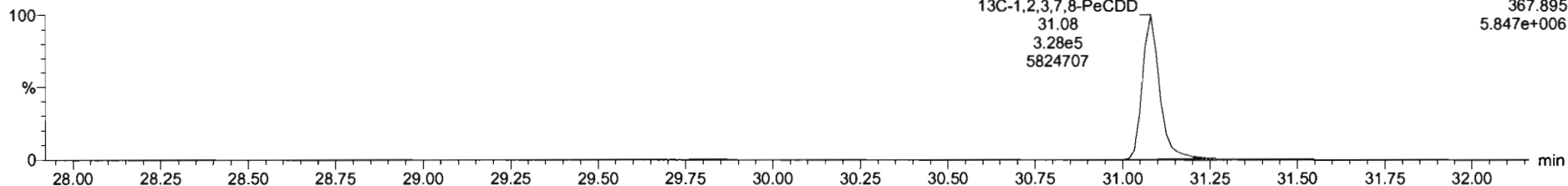


13C-1,2,3,7,8-PeCDD

200506R2\_2



200506R2\_2



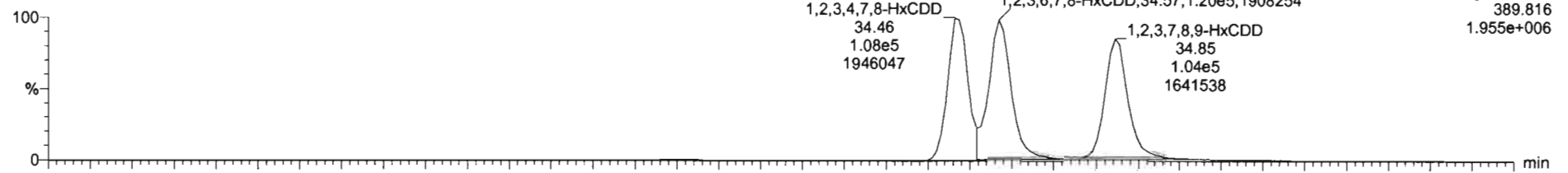
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Last Altered: Thursday, May 07, 2020 7:38:55 AM Pacific Daylight Time  
Printed: Thursday, May 07, 2020 7:39:06 AM Pacific Daylight Time

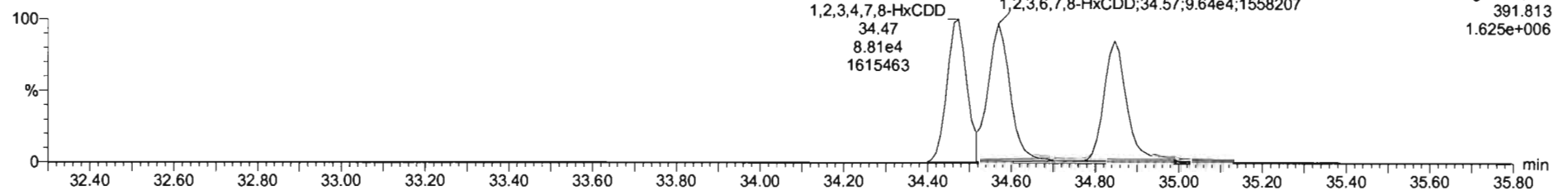
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1,2,3,4,7,8-HxCDD

200506R2\_2

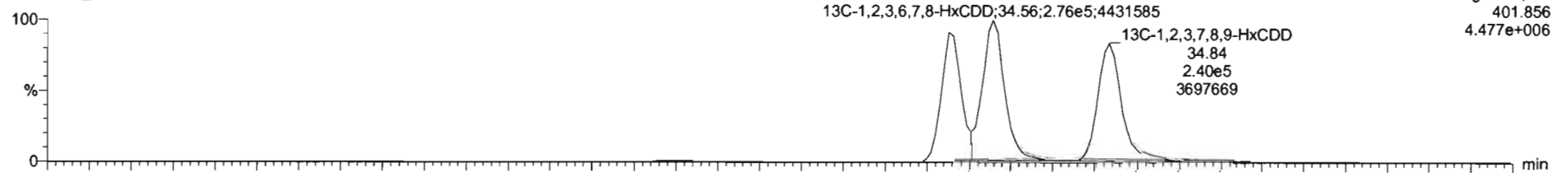


200506R2\_2

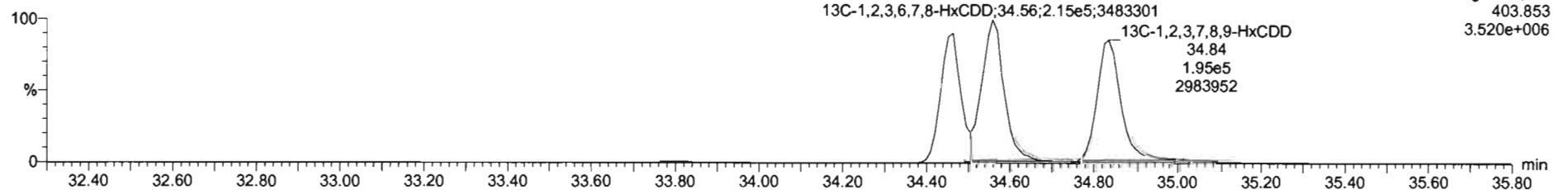


13C-1,2,3,4,7,8-HxCDD

200506R2\_2



200506R2\_2



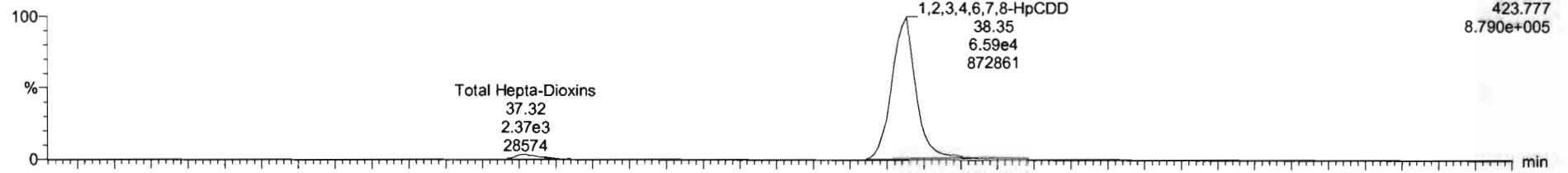
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Last Altered: Thursday, May 07, 2020 7:38:55 AM Pacific Daylight Time  
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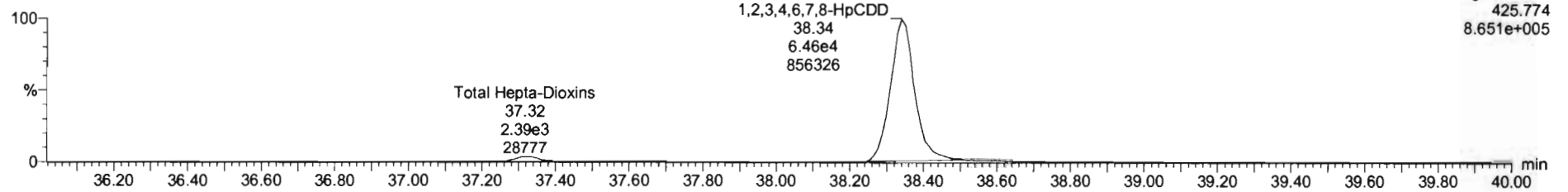
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**1,2,3,4,6,7,8-HpCDD**

200506R2\_2

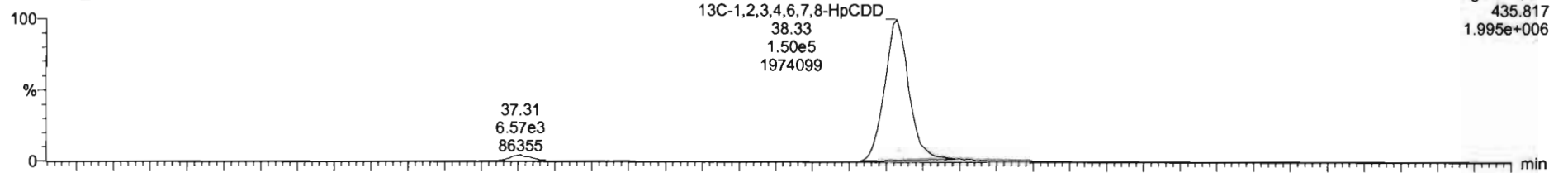


200506R2\_2

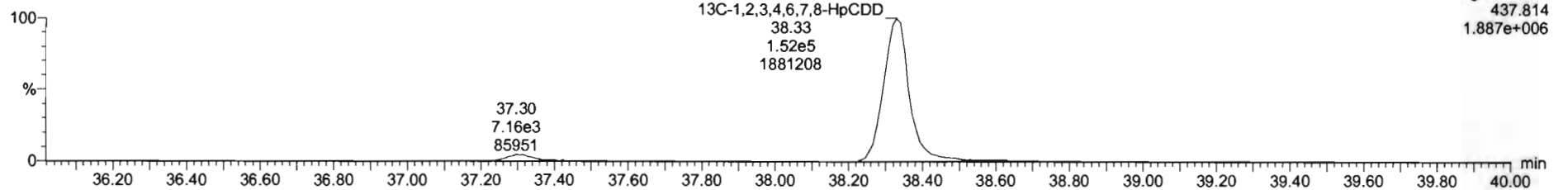


**13C-1,2,3,4,6,7,8-HpCDD**

200506R2\_2



200506R2\_2



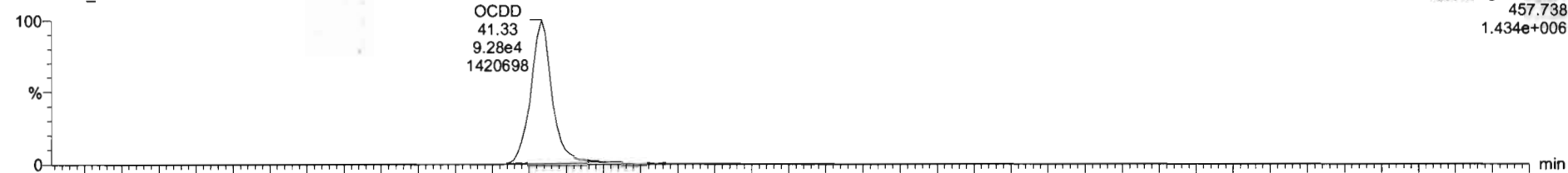
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Printed: Thursday, May 07, 2020 7:39:06 AM Pacific Daylight Time

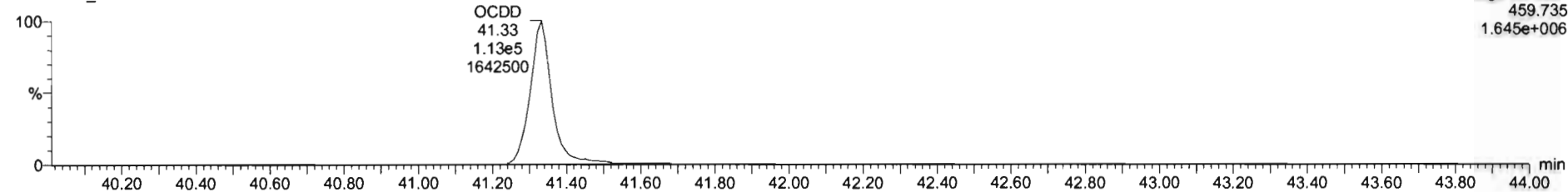
Name: 200506R2\_2, Date: 06-May-2020, Time: 14:23:12, ID: B0D0323-BS1 OPR 10, Description: OPR

**OCDD**

200506R2\_2

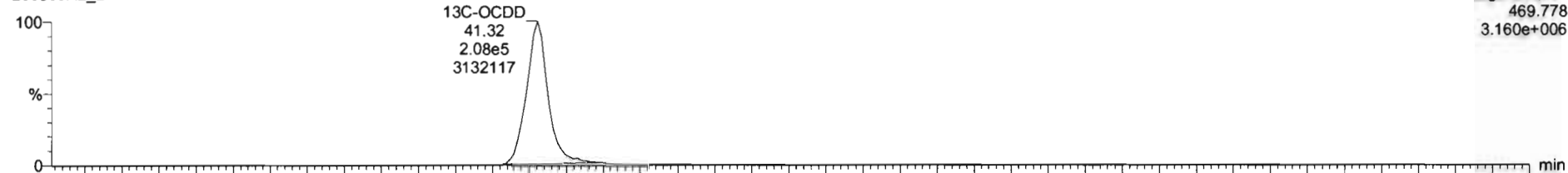


200506R2\_2

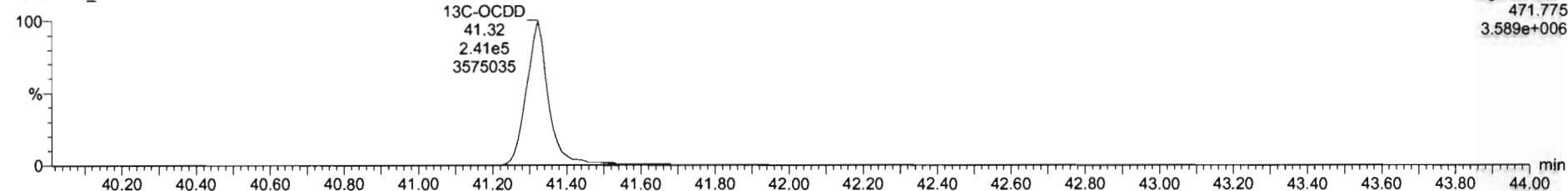


**13C-OCDD**

200506R2\_2



200506R2\_2



K1	Name	Resp	RA	nly	RRF	wtdval	RT	RRT	Conc	%Rec	DL	EMPC
6	1,2,3,4,6,7,8-HpCEB	1.30e5	1.02	NO	0.0575	10.000	38.75	1.001	96.1		0.370	96.1
7	OCDD	2.01e5	0.88	NO	0.0335	10.000	41.33	1.000	196		0.348	196
8	2,3,7,8-TCDF	5.56e4	0.76	NO	0.7571	10.000	25.05	1.001	18.9		0.157	18.9
9	1,2,3,7,8-PeCDF	3.25e4	1.59	NO	0.9182	10.000	29.78	1.001	94.0		0.330	94.0

K1	Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1								





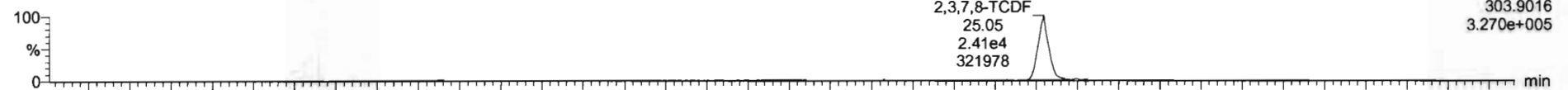
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Last Altered: Thursday, May 07, 2020 7:38:55 AM Pacific Daylight Time  
Printed: Thursday, May 07, 2020 7:39:06 AM Pacific Daylight Time

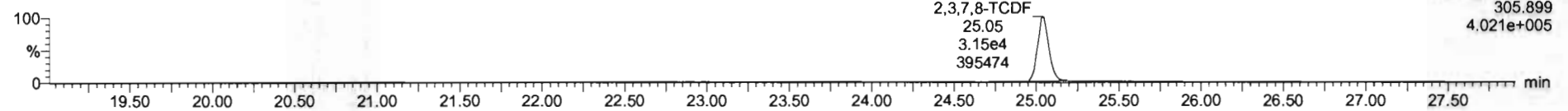
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**2,3,7,8-TCDF**

200506R2\_2

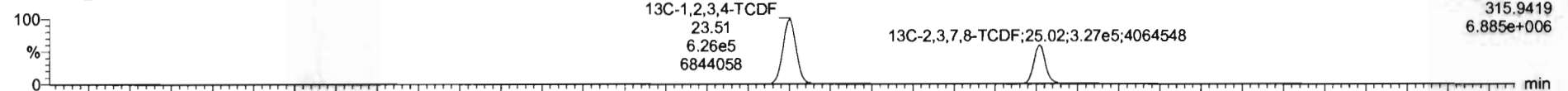


200506R2\_2

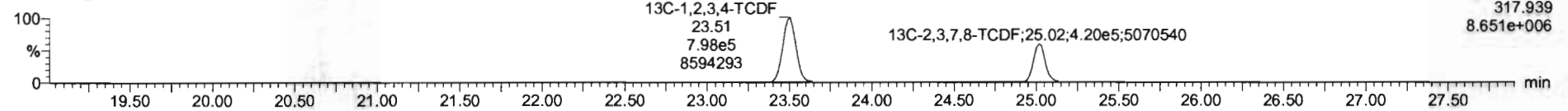


**13C-2,3,7,8-TCDF**

200506R2\_2

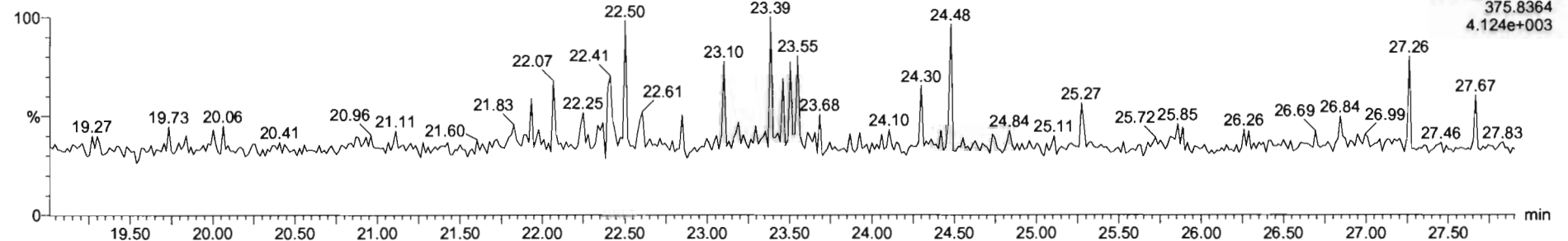


200506R2\_2



**DPE1**

200506R2\_2



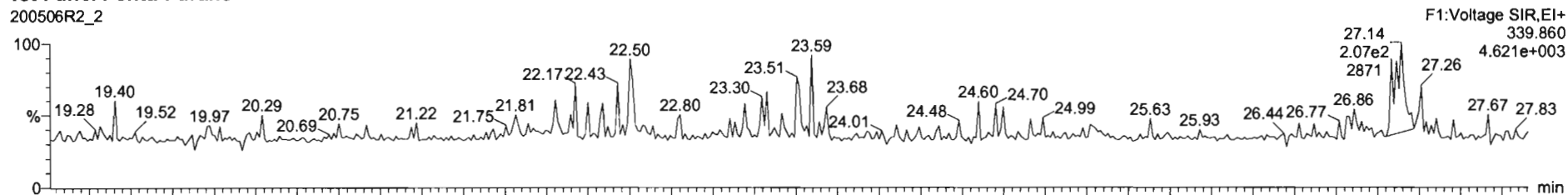
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Printed: Thursday, May 07, 2020 7:39:06 AM Pacific Daylight Time

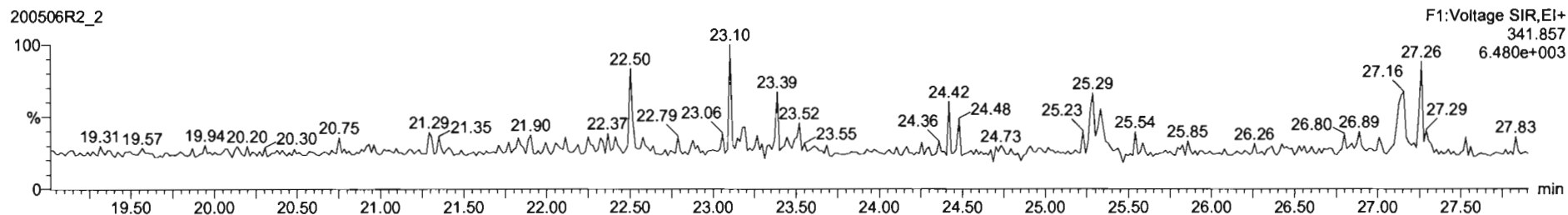
Name: 200506R2\_2, Date: 06-May-2020, Time: 14:23:12, ID: B0D0323-BS1 OPR 10, Description: OPR

1st Func. Penta-Furans

200506R2\_2

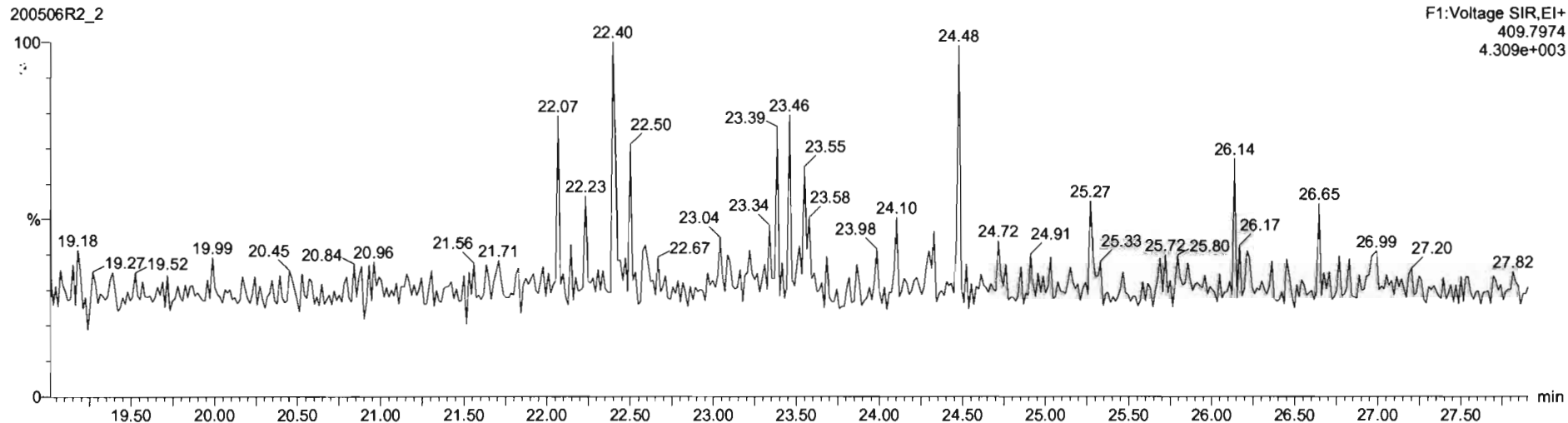


200506R2\_2



DPE6

200506R2\_2



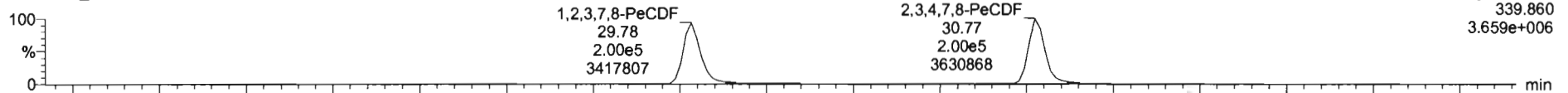
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Printed: Thursday, May 07, 2020 7:39:06 AM Pacific Daylight Time

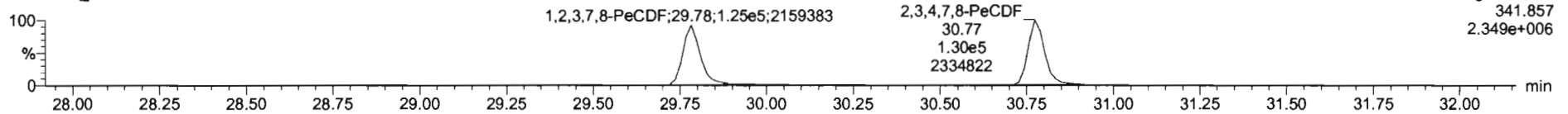
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**1,2,3,7,8-PeCDF**

200506R2\_2

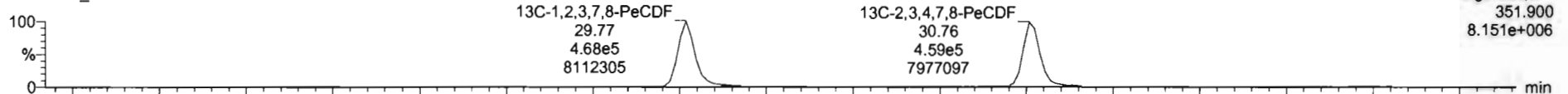


200506R2\_2

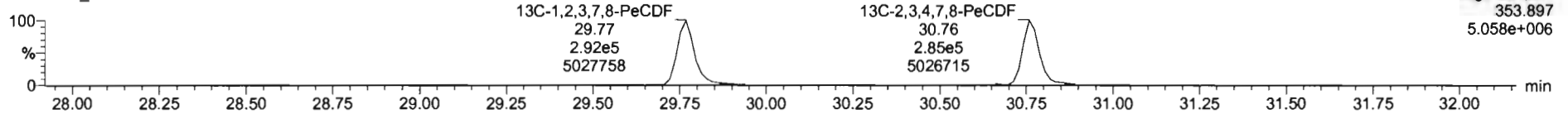


**13C-1,2,3,7,8-PeCDF**

200506R2\_2

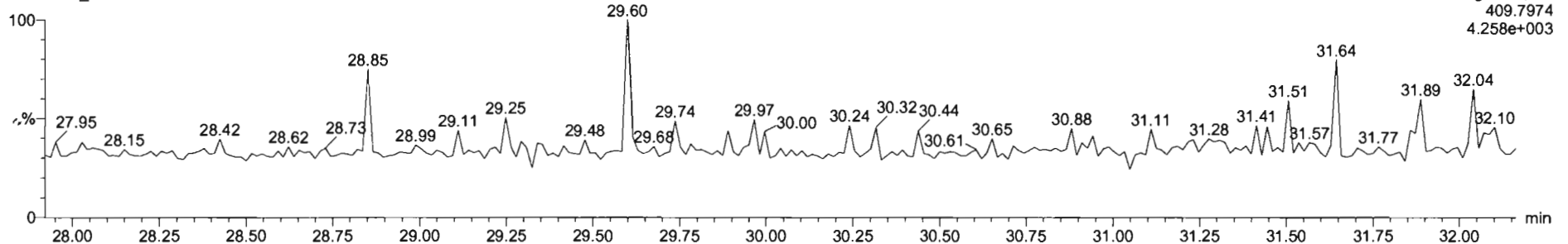


200506R2\_2



**DPE2**

200506R2\_2



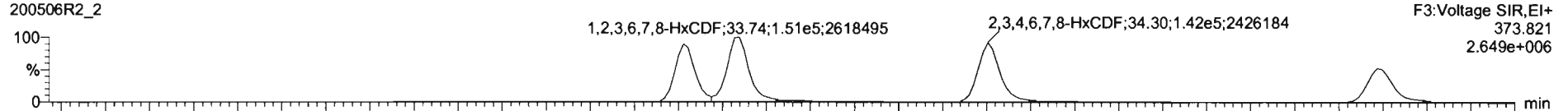
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Printed: Thursday, May 07, 2020 7:39:06 AM Pacific Daylight Time

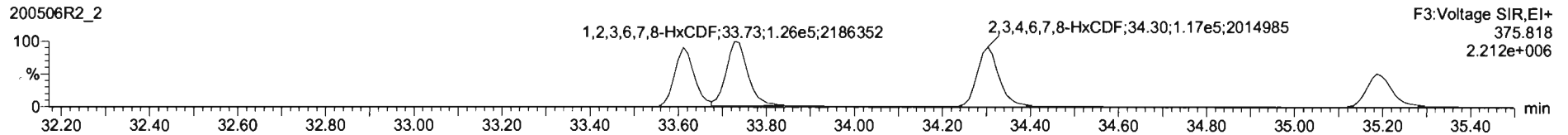
Name: 200506R2\_2, Date: 06-May-2020, Time: 14:23:12, ID: B0D0323-BS1 OPR 10, Description: OPR

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

200506R2\_2

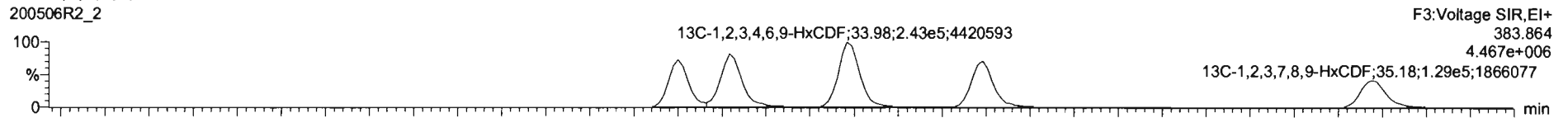


200506R2\_2

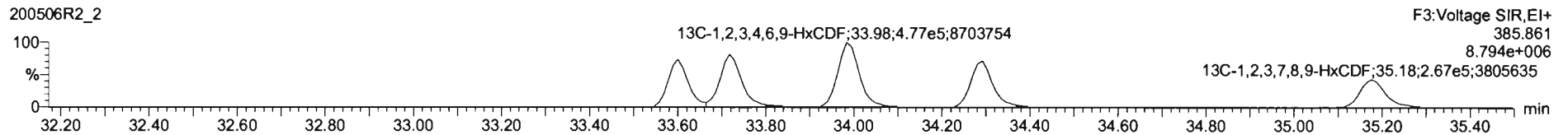


**13C-1,2,3,4,7,8-HxCDF**

200506R2\_2

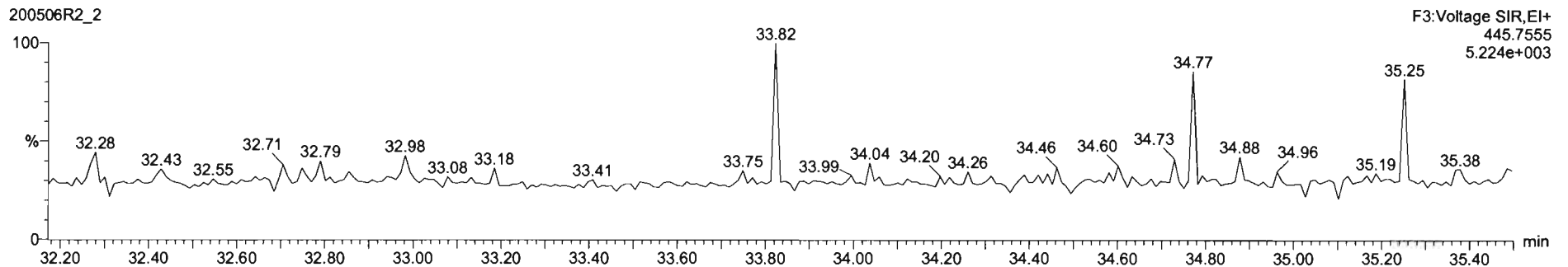


200506R2\_2



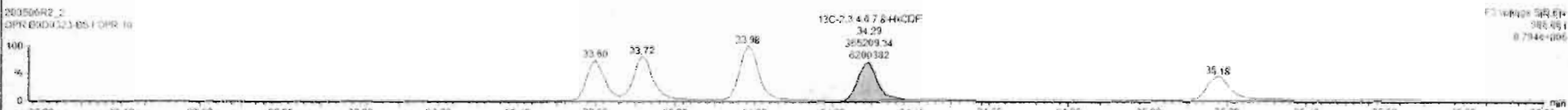
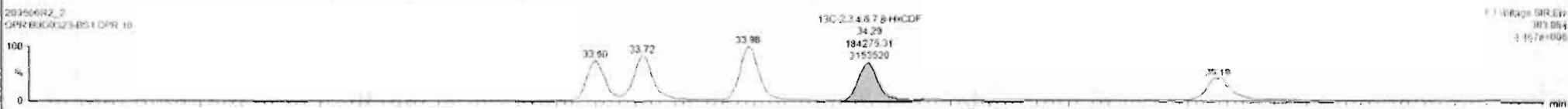
**DPE3**

200506R2\_2



Name	Resp	RA	rv	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
11 1,2,3,4,6,8-HxCDF	2.24e1	1.22	ND	0.8750	10.000	33.61	1.000	161		0.435	101
12 1,2,3,6,7,8-HxCDF	2.77e1	1.20	ND	0.8740	10.000	33.74	1.001	164		0.391	104
13 2,3,4,6,7,8-HxCDF	2.58e5	1.20	ND	0.8217	10.000	34.30	1.000	104		6.435	104
14 1,2,3,7,8,9-HxCDF	1.75e5	1.28	ND	0.8642	10.000	35.19	1.000	161		0.749	101

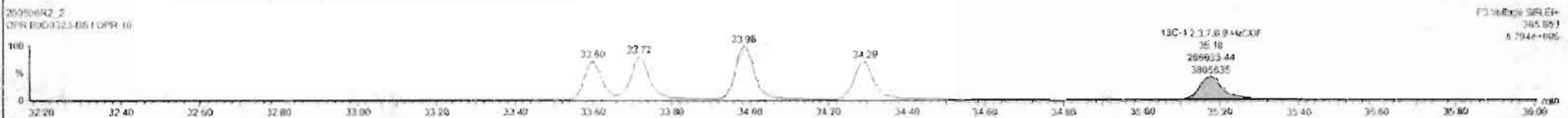
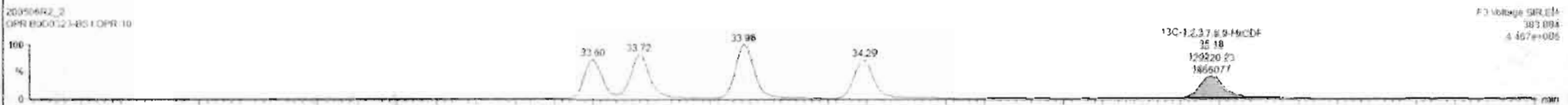
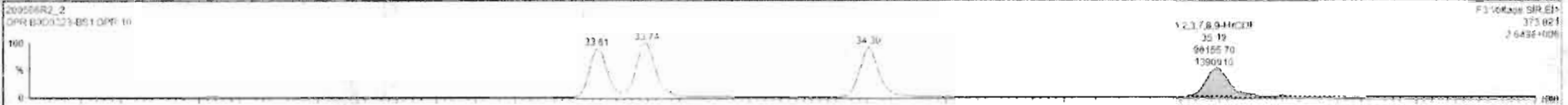
Name	RT	m1 Resp	m2 Resp	RA	rv	EMPC	Conc
1							





#	Name	Resp	PA	ny	RRF	wSvel	RT	RRT	Cent	Wt%	DL	EMPC
11	1,2,3,4,7,8-HxCDF	2.24e5	1.22	NO	0.8762	10.000	33.61	1.000	101		0.435	101
12	1,2,3,6,7,8-HxCDF	2.77e5	1.20	NO	0.9740	10.000	33.74	1.001	104		0.391	104
13	2,3,4,6,7,8-HxCDF	2.58e5	1.28	NO	0.9217	10.000	34.30	1.000	104		0.435	104
14	1,2,3,7,8,9-HxCDF	1.72e5	1.27	NO	0.8642	10.000	35.19	1.000	101		0.749	101

#	Name	RT	m1 Resp	m2 Resp	PA	ny	EMPC	Conc.
1								



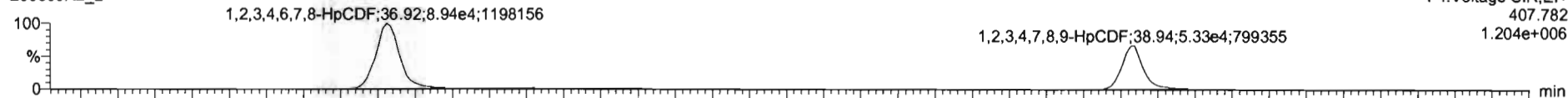
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Last Altered: Thursday, May 07, 2020 7:38:55 AM Pacific Daylight Time  
Printed: Thursday, May 07, 2020 7:39:06 AM Pacific Daylight Time

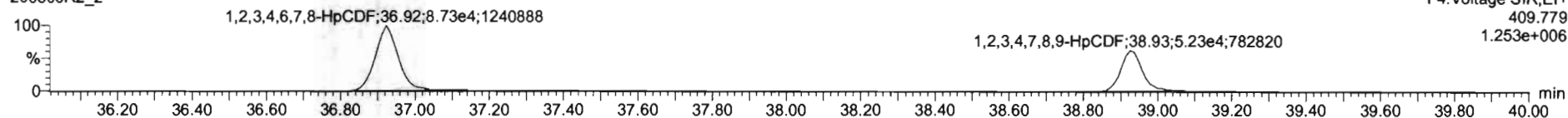
Name: 200506R2\_2, Date: 06-May-2020, Time: 14:23:12, ID: B0D0323-BS1 OPR 10, Description: OPR

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

200506R2\_2

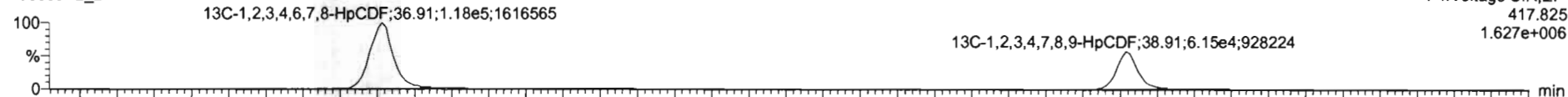


200506R2\_2

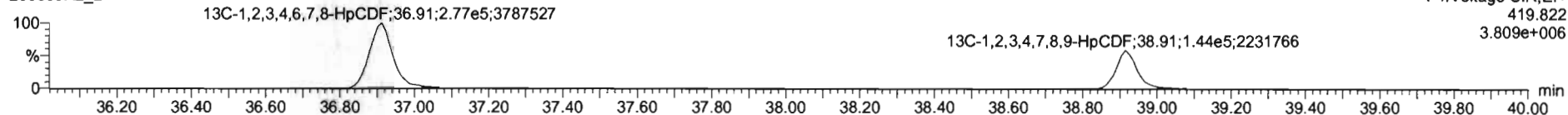


**13C-1,2,3,4,6,7,8-HpCDF**

200506R2\_2

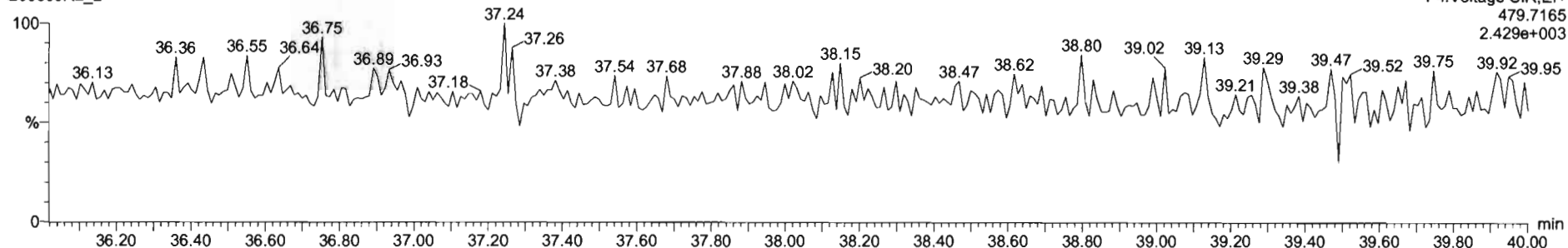


200506R2\_2



**DPE4**

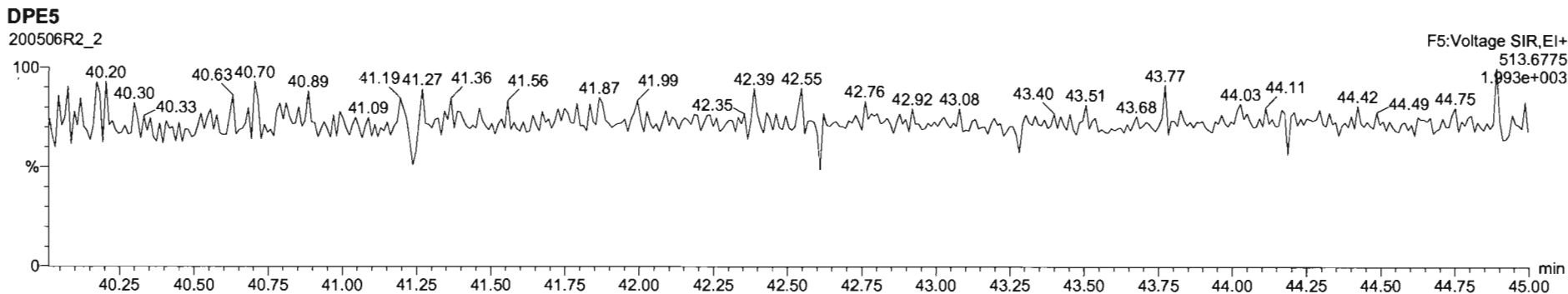
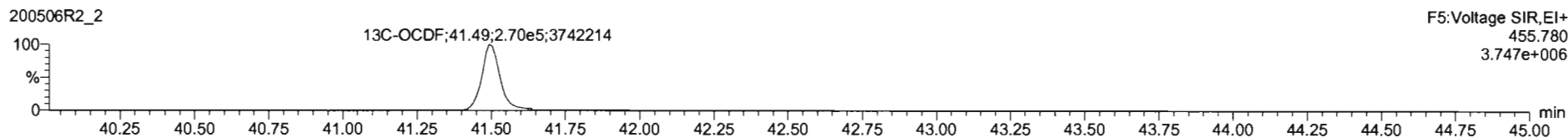
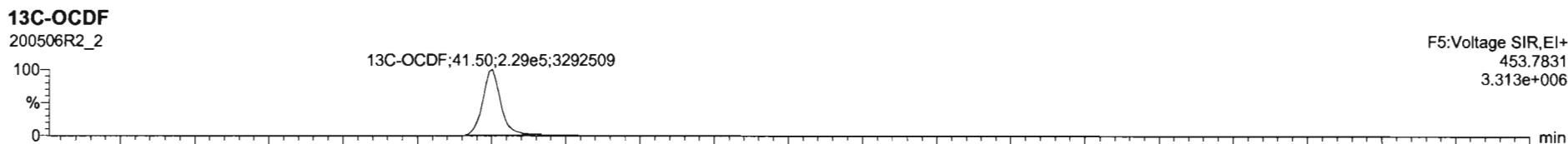
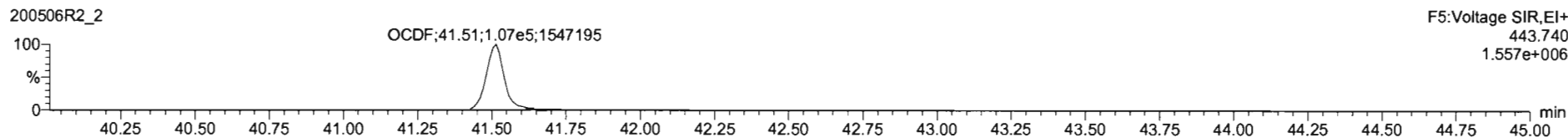
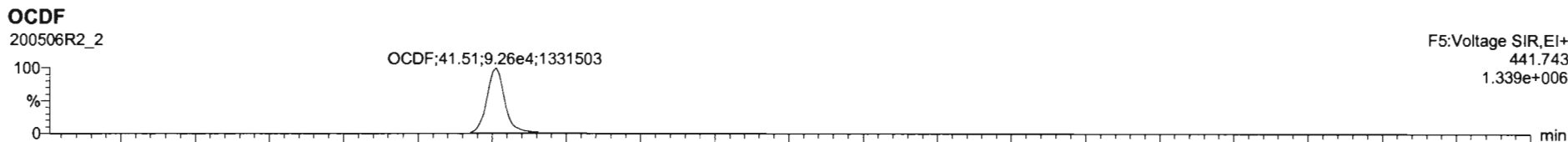
200506R2\_2



Dataset: Untitled

Last Altered: Thursday, May 07, 2020 7:38:55 AM Pacific Daylight Time  
Printed: Thursday, May 07, 2020 7:39:06 AM Pacific Daylight Time

Name: 200506R2\_2, Date: 06-May-2020, Time: 14:23:12, ID: B0D0323-BS1 OPR 10, Description: OPR

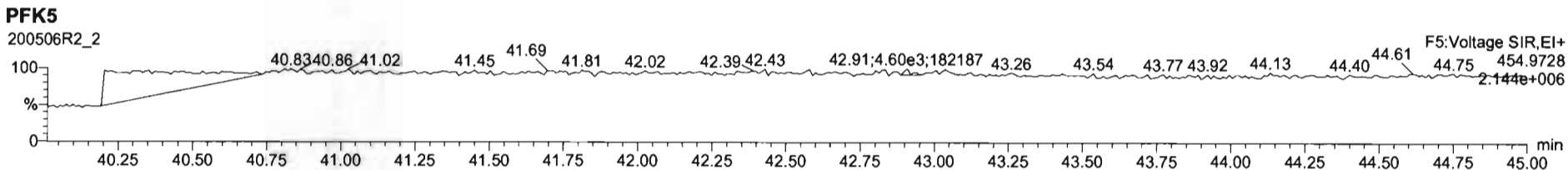
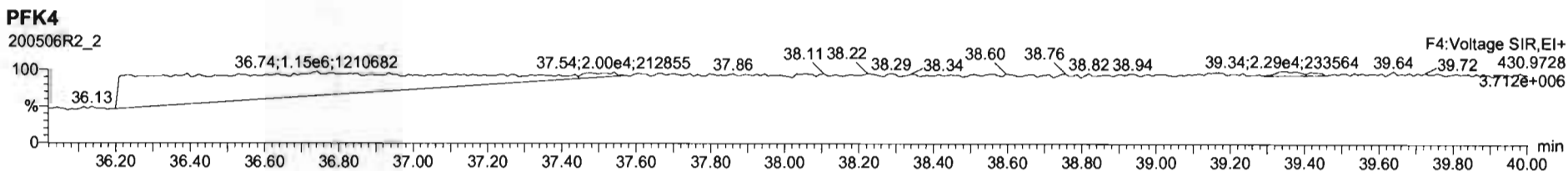
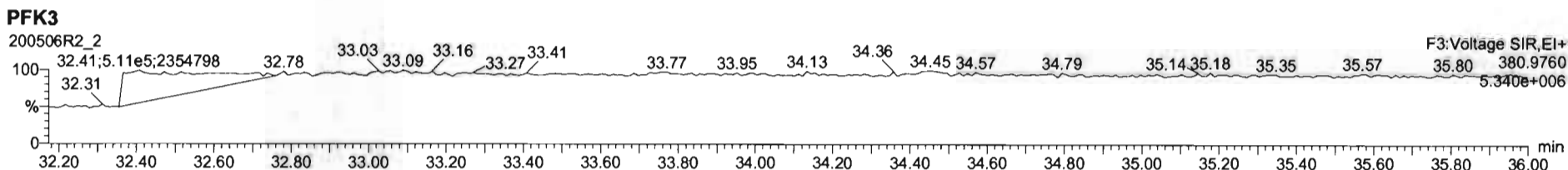
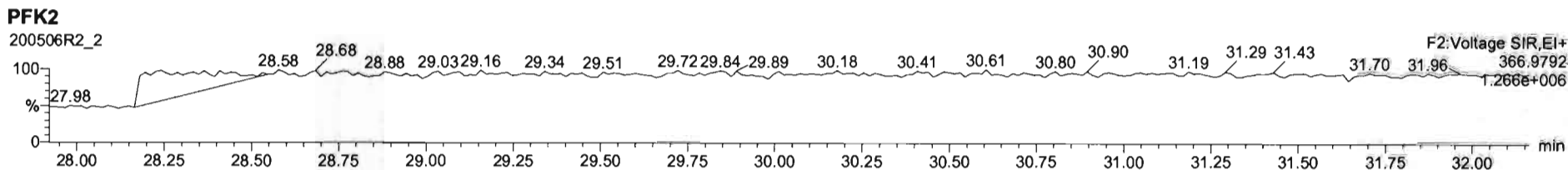
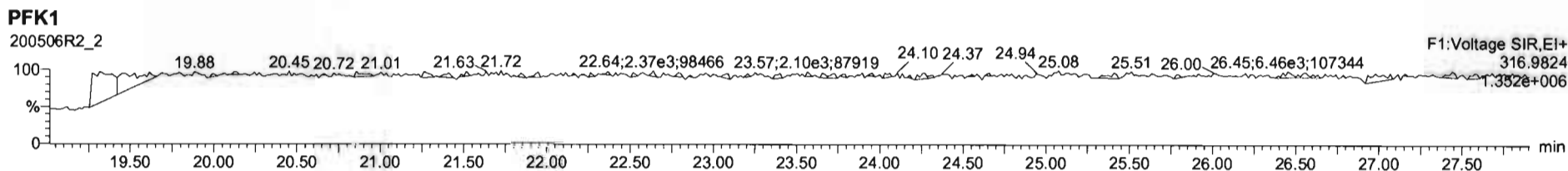




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Printed: Thursday, May 07, 2020 7:39:06 AM Pacific Daylight Time

Name: 200506R2\_2, Date: 06-May-2020, Time: 14:23:12, ID: B0D0323-BS1 OPR 10, Description: OPR



Dataset: U:\VG12.PRO\Results\200506R1\200506R1-4.qld

Last Altered: Wednesday, May 06, 2020 1:57:41 PM Pacific Daylight Time  
Printed: Wednesday, May 06, 2020 1:58:59 PM Pacific Daylight Time

*GRB 05/06/2020*

*CT 05/07/2020*

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02  
Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200506R1\_4, Date: 06-May-2020, Time: 10:17:03, ID: B0E0015-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	0.947	10.000	25.976		1.001				0.0565	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.000	31.086		1.001				0.0467	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.000	34.452		1.000				0.0574	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.000	34.537		1.000				0.0557	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.000	34.824		1.000				0.0732	
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.898	10.000	38.319		1.000				0.109	
7	7 OCDD	2.43e2	0.77	NO	0.933	10.000	41.300	41.32	1.000	1.001	0.21915		0.129	0.219
8	8 2,3,7,8-TCDF			NO	0.787	10.000	25.027		1.001				0.0345	
9	9 1,2,3,7,8-PeCDF			NO	0.910	10.000	29.773		1.001				0.0456	
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.000	30.774		1.001				0.0404	
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	10.000	33.579		1.000				0.0354	
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.000	33.706		1.000				0.0326	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.000	34.305		1.001				0.0404	
14	14 1,2,3,7,8,9-HxCDF			NO	0.864	10.000	35.155		1.000				0.0862	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.871	10.000	36.928		1.001				0.0697	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.000	38.894		1.000				0.116	
17	17 OCDF			NO	0.802	10.000	41.481		1.000				0.152	
18	18 13C-2,3,7,8-TCDD	9.53e5	0.78	NO	1.16	10.000	25.938	25.94	1.026	1.027	160.09	80.0	0.270	
19	19 13C-1,2,3,7,8-PeCDD	8.03e5	0.64	NO	0.847	10.000	31.013	31.06	1.227	1.229	184.55	92.3	0.396	
20	20 13C-1,2,3,4,7,8-HxCDD	5.10e5	1.28	NO	0.750	10.000	34.452	34.44	1.014	1.014	186.28	93.1	0.685	
21	21 13C-1,2,3,6,7,8-HxCDD	6.84e5	1.27	NO	0.963	10.000	34.564	34.54	1.017	1.017	194.65	97.3	0.533	
22	22 13C-1,2,3,7,8,9-HxCDD	5.43e5	1.23	NO	0.838	10.000	34.833	34.81	1.025	1.025	177.61	88.8	0.613	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.73e5	1.06	NO	0.641	10.000	38.318	38.31	1.128	1.128	159.50	79.7	0.519	
24	24 13C-OCDD	4.76e5	0.89	NO	0.586	10.000	41.308	41.30	1.216	1.216	222.24	55.6	0.414	
25	25 13C-2,3,7,8-TCDF	1.17e6	0.77	NO	1.03	10.000	25.001	25.00	0.989	0.989	147.89	73.9	0.309	
26	26 13C-1,2,3,7,8-PeCDF	1.16e6	1.57	NO	0.845	10.000	29.706	29.75	1.176	1.177	178.79	89.4	0.627	
27	27 13C-2,3,4,7,8-PeCDF	1.17e6	1.59	NO	0.814	10.000	30.694	30.74	1.215	1.217	186.75	93.4	0.651	
28	28 13C-1,2,3,4,7,8-HxCDF	7.39e5	0.50	NO	1.00	10.000	33.593	33.58	0.989	0.988	201.55	101	0.608	
29	29 13C-1,2,3,6,7,8-HxCDF	9.16e5	0.50	NO	1.14	10.000	33.715	33.70	0.992	0.992	220.83	110	0.538	
30	30 13C-2,3,4,6,7,8-HxCDF	7.39e5	0.53	NO	1.02	10.000	34.282	34.27	1.009	1.009	197.99	99.0	0.598	
31	31 13C-1,2,3,7,8,9-HxCDF	4.27e5	0.51	NO	0.845	10.000	35.172	35.15	1.035	1.035	138.32	69.2	0.724	

Dataset: U:\VG12.PRO\Results\200506R1\200506R1-4.qld

Last Altered: Wednesday, May 06, 2020 1:57:41 PM Pacific Daylight Time

Printed: Wednesday, May 06, 2020 1:58:59 PM Pacific Daylight Time

Name: 200506R1\_4, Date: 06-May-2020, Time: 10:17:03, ID: B0E0015-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	13C-1,2,3,4,6,7,8-HpCDF	4.97e5	0.44	NO	0.771	10.000	36.901	36.89	1.086	1.086	176.72	88.4	0.734	
33	13C-1,2,3,4,7,8,9-HpCDF	2.36e5	0.41	NO	0.482	10.000	38.909	38.89	1.145	1.145	133.96	67.0	1.17	
34	13C-OCDF	4.60e5	0.87	NO	0.669	10.000	41.478	41.48	1.221	1.221	188.45	47.1	0.376	
35	37Cl-2,3,7,8-TCDD	3.59e5			1.10	10.000	25.968	25.98	1.028	1.028	63.728	79.7	0.0794	
36	13C-1,2,3,4-TCDD	1.03e6	0.81	NO	1.00	10.000	25.350	25.27	1.000	1.000	200.00	100	0.313	
37	13C-1,2,3,4-TCDF	1.53e6	0.79	NO	1.00	10.000	23.560	23.49	1.000	1.000	200.00	100	0.319	
38	13C-1,2,3,4,6,9-HxCDF	7.30e5	0.51	NO	1.00	10.000	34.000	33.97	1.000	1.000	200.00	100	0.611	
39	Total Tetra-Dioxins				0.947	10.000	24.620		0.000				0.0345	
40	Total Penta-Dioxins				0.942	10.000	29.960		0.000				0.0235	
41	Total Hexa-Dioxins				0.915	10.000	33.635		0.000				0.0318	
42	Total Hepta-Dioxins				0.898	10.000	37.640		0.000				0.0549	
43	Total Tetra-Furans				0.787	10.000	23.610		0.000				0.0153	
44	1st Func. Penta-Furans				0.910	10.000	27.090		0.000				0.0107	
45	Total Penta-Furans				0.910	10.000	29.275		0.000				0.0175	
46	Total Hexa-Furans				0.922	10.000	33.555		0.000				0.0228	
47	Total Hepta-Furans				0.871	10.000	37.835		0.000				0.0465	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200506R1\200506R1-4.qld

Last Altered: Wednesday, May 06, 2020 1:57:41 PM Pacific Daylight Time

Printed: Wednesday, May 06, 2020 1:58:59 PM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200506R1\_4, Date: 06-May-2020, Time: 10:17:03, ID: B0E0015-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\200506R1\200506R1-4.qld

Last Altered: Wednesday, May 06, 2020 1:57:41 PM Pacific Daylight Time

Printed: Wednesday, May 06, 2020 1:58:59 PM Pacific Daylight Time

Name: 200506R1\_4, Date: 06-May-2020, Time: 10:17:03, ID: B0E0015-BLK1 Method Blank 10, Description: Method Blank

Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

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

3

5

Dataset: Untitled

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Printed: Wednesday, May 06, 2020 1:51:29 PM Pacific Daylight Time

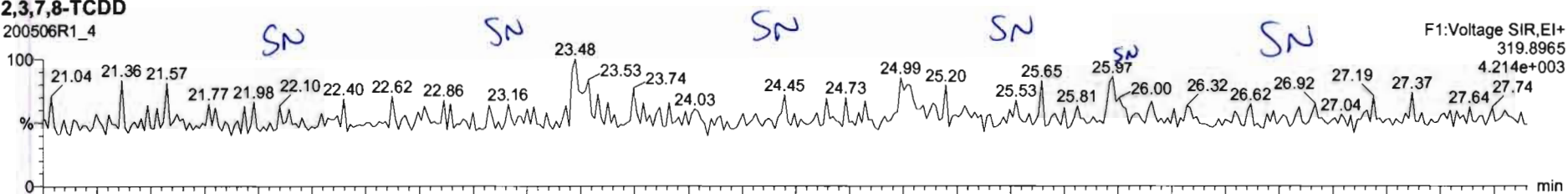
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Name: 200506R1\_4, Date: 06-May-2020, Time: 10:17:03, ID: B0E0015-BLK1 Method Blank 10, Description: Method Blank

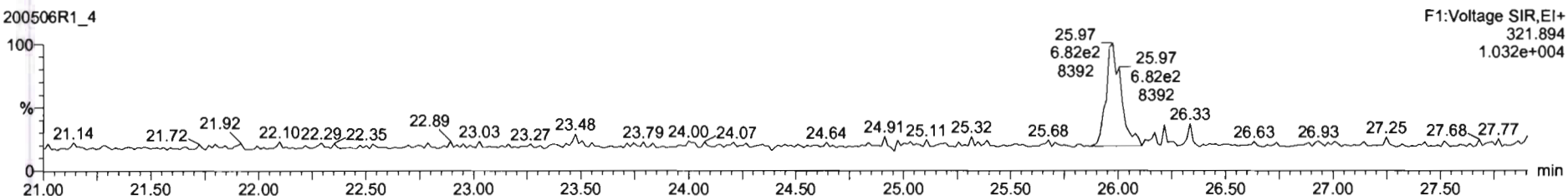
2,3,7,8-TCDD

200506R1\_4



F1:Voltage SIR,EI+  
319.8965  
4.214e+003

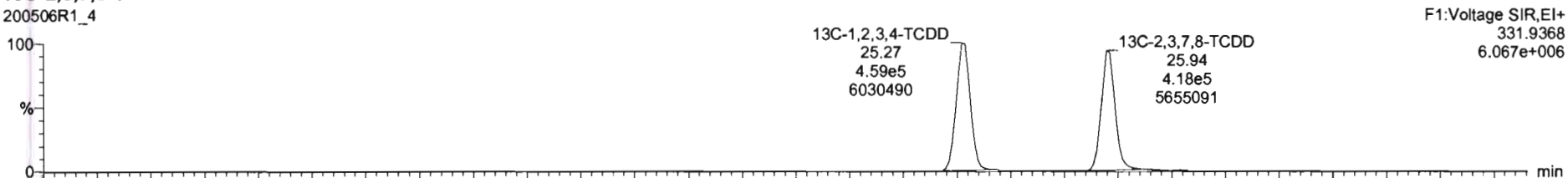
200506R1\_4



F1:Voltage SIR,EI+  
321.894  
1.032e+004

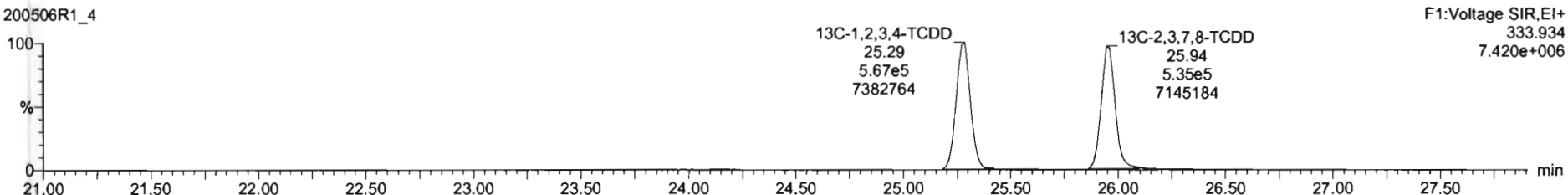
13C-2,3,7,8-TCDD

200506R1\_4



F1:Voltage SIR,EI+  
331.9368  
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200506R1\_4



F1:Voltage SIR,EI+  
333.934  
7.420e+006

Dataset: Untitled

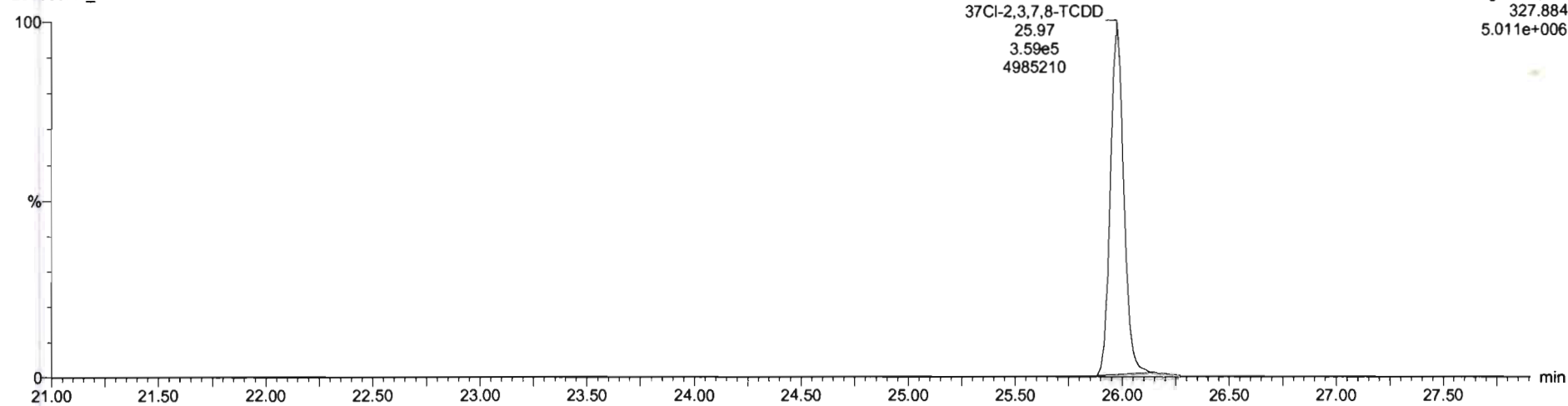
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Printed: Wednesday, May 06, 2020 1:51:29 PM Pacific Daylight Time

Name: 200506R1\_4, Date: 06-May-2020, Time: 10:17:03, ID: B0E0015-BLK1 Method Blank 10, Description: Method Blank

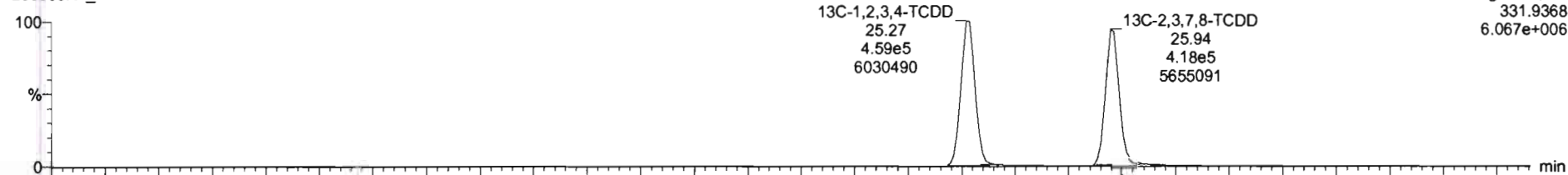
**37Cl-2,3,7,8-TCDD**

200506R1\_4

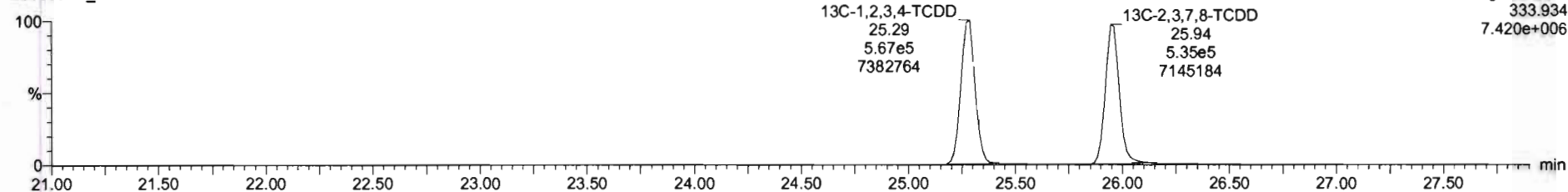


**13C-1,2,3,4-TCDD**

200506R1\_4



200506R1\_4



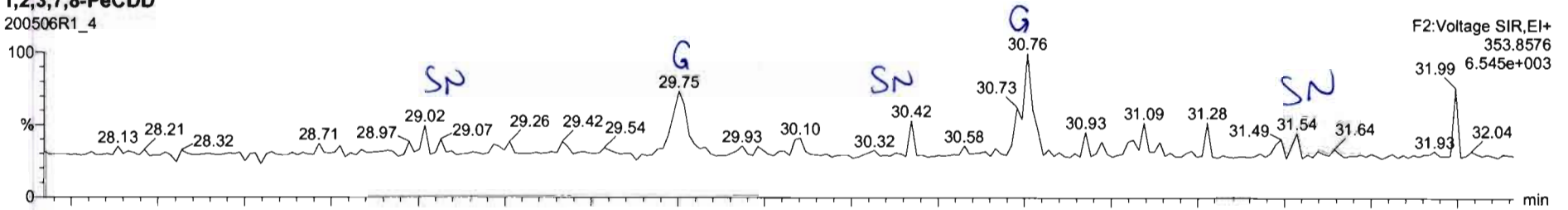
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Printed: Wednesday, May 06, 2020 1:51:29 PM Pacific Daylight Time

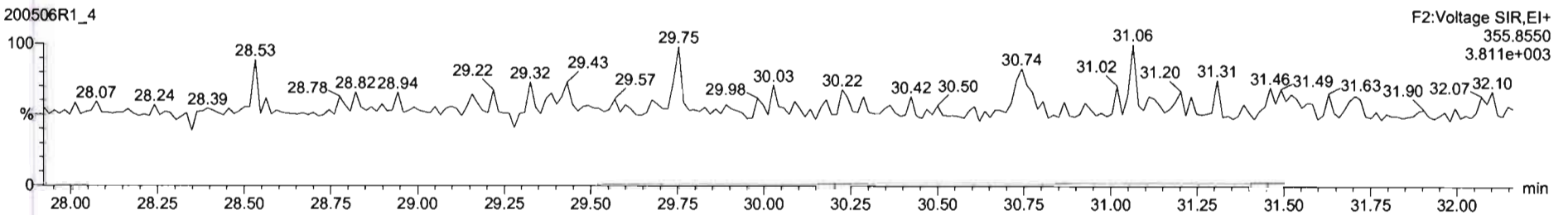
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1,2,3,7,8-PeCDD

200506R1\_4

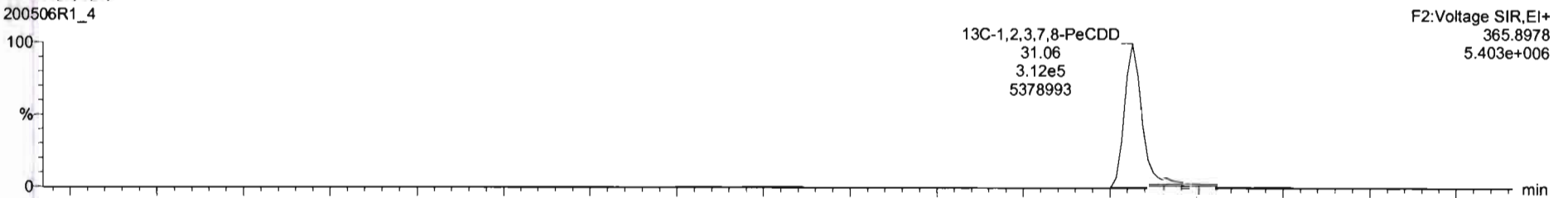


200506R1\_4

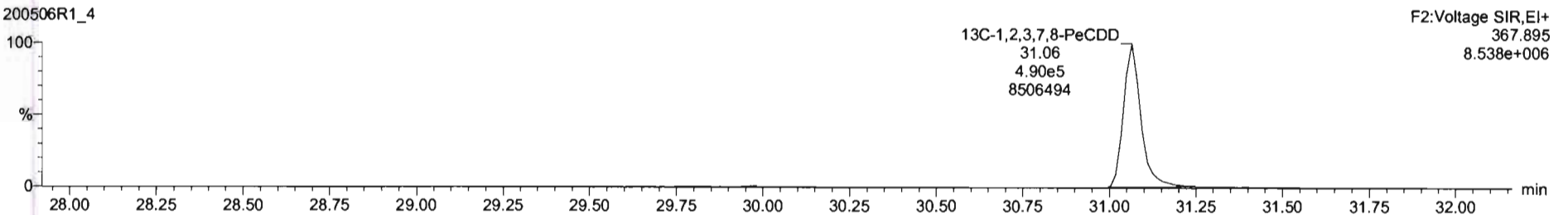


13C-1,2,3,7,8-PeCDD

200506R1\_4



200506R1\_4





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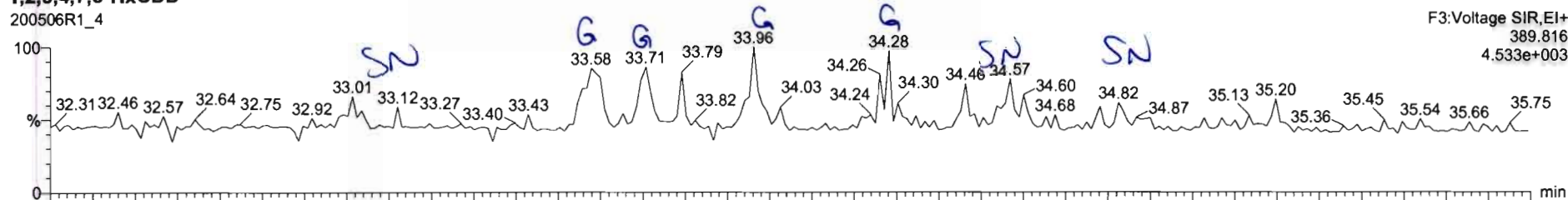
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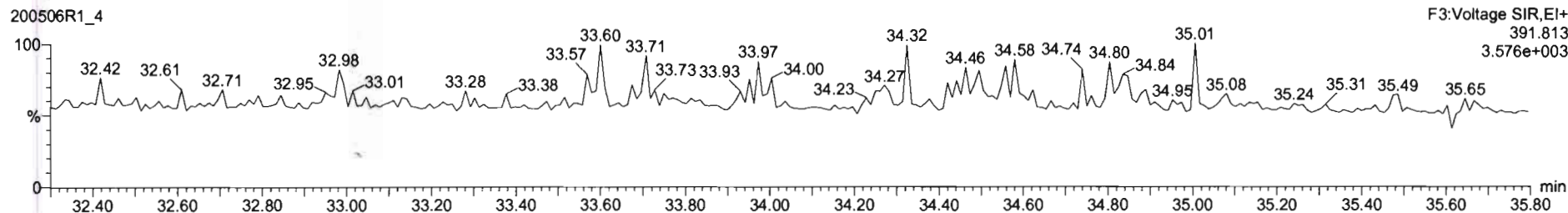
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1,2,3,4,7,8-HxCDD

200506R1\_4

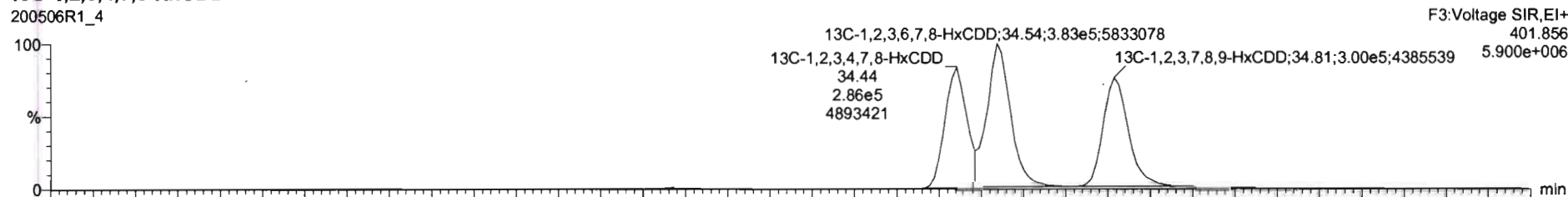


200506R1\_4

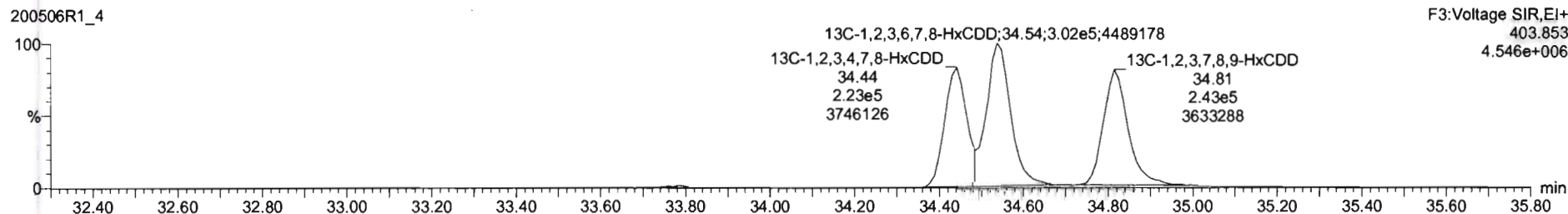


13C-1,2,3,4,7,8-HxCDD

200506R1\_4



200506R1\_4



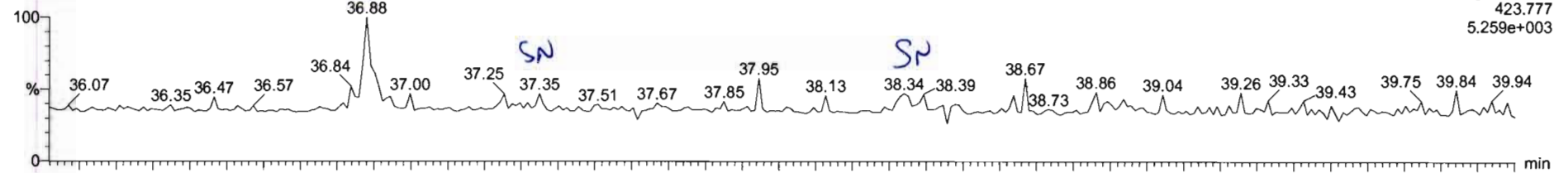
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Printed: Wednesday, May 06, 2020 1:51:29 PM Pacific Daylight Time

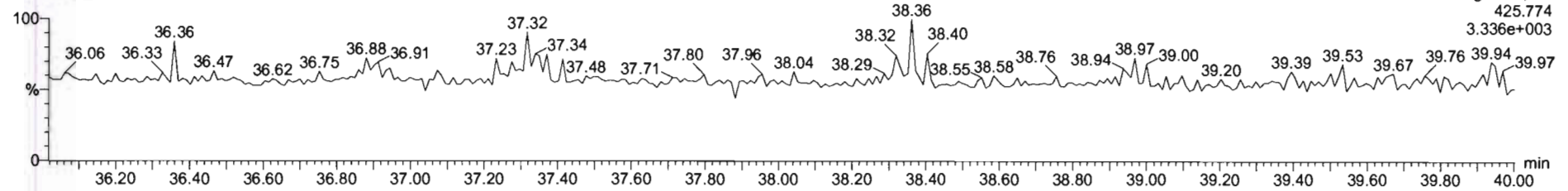
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1,2,3,4,6,7,8-HpCDD

200506R1\_4

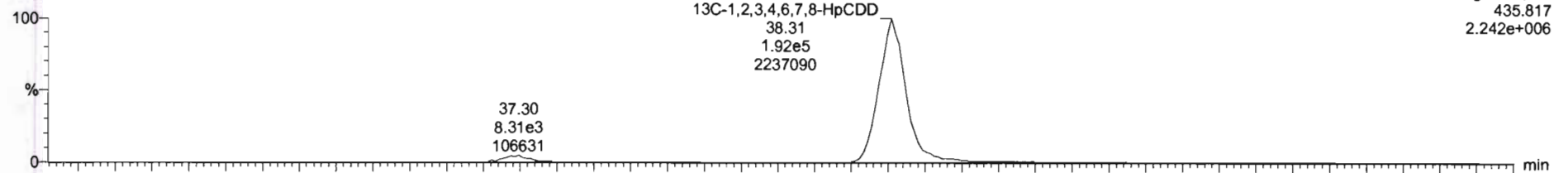


200506R1\_4

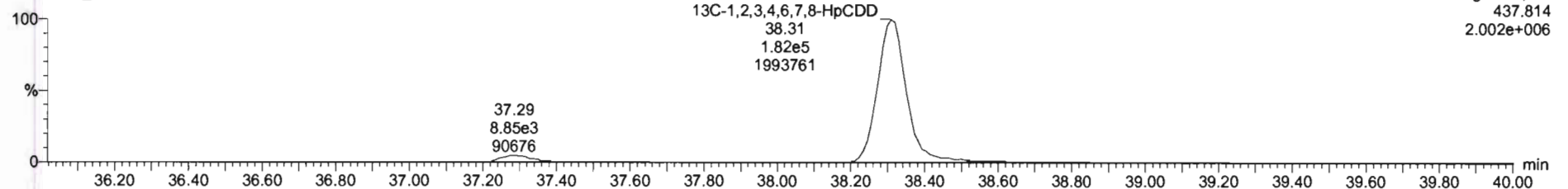


13C-1,2,3,4,6,7,8-HpCDD

200506R1\_4



200506R1\_4



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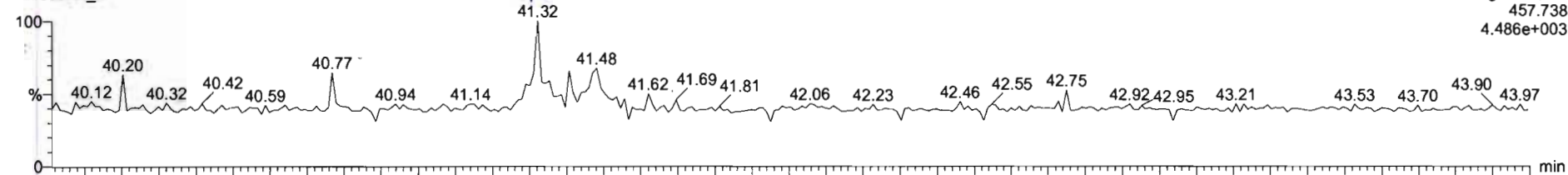
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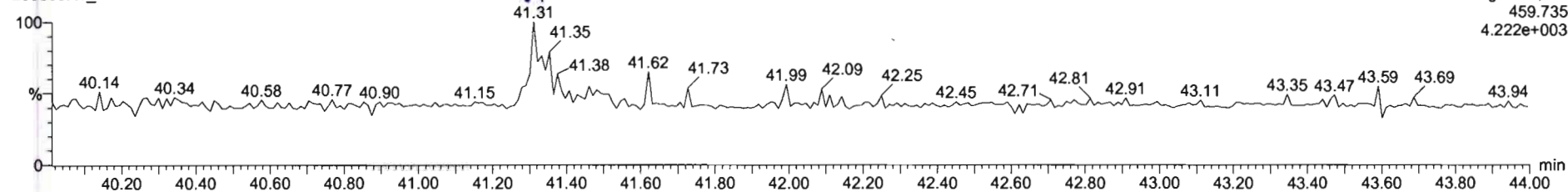
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OCDD

200506R1\_4

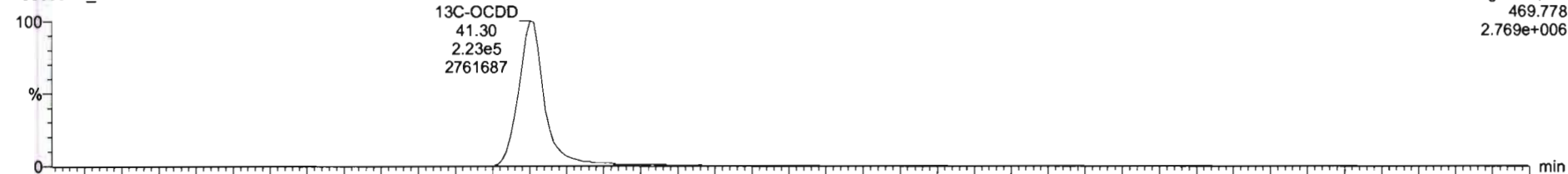


200506R1\_4

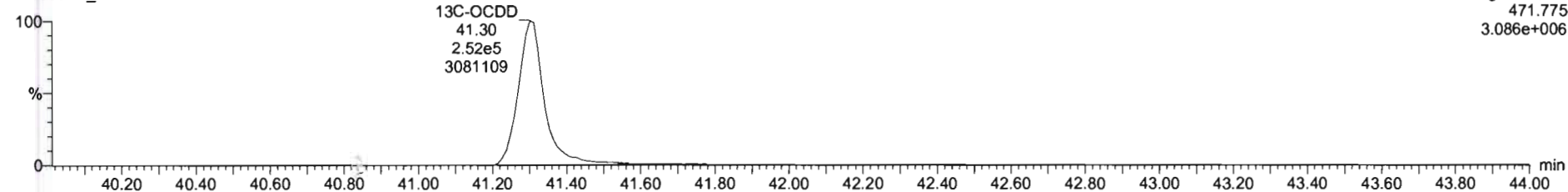


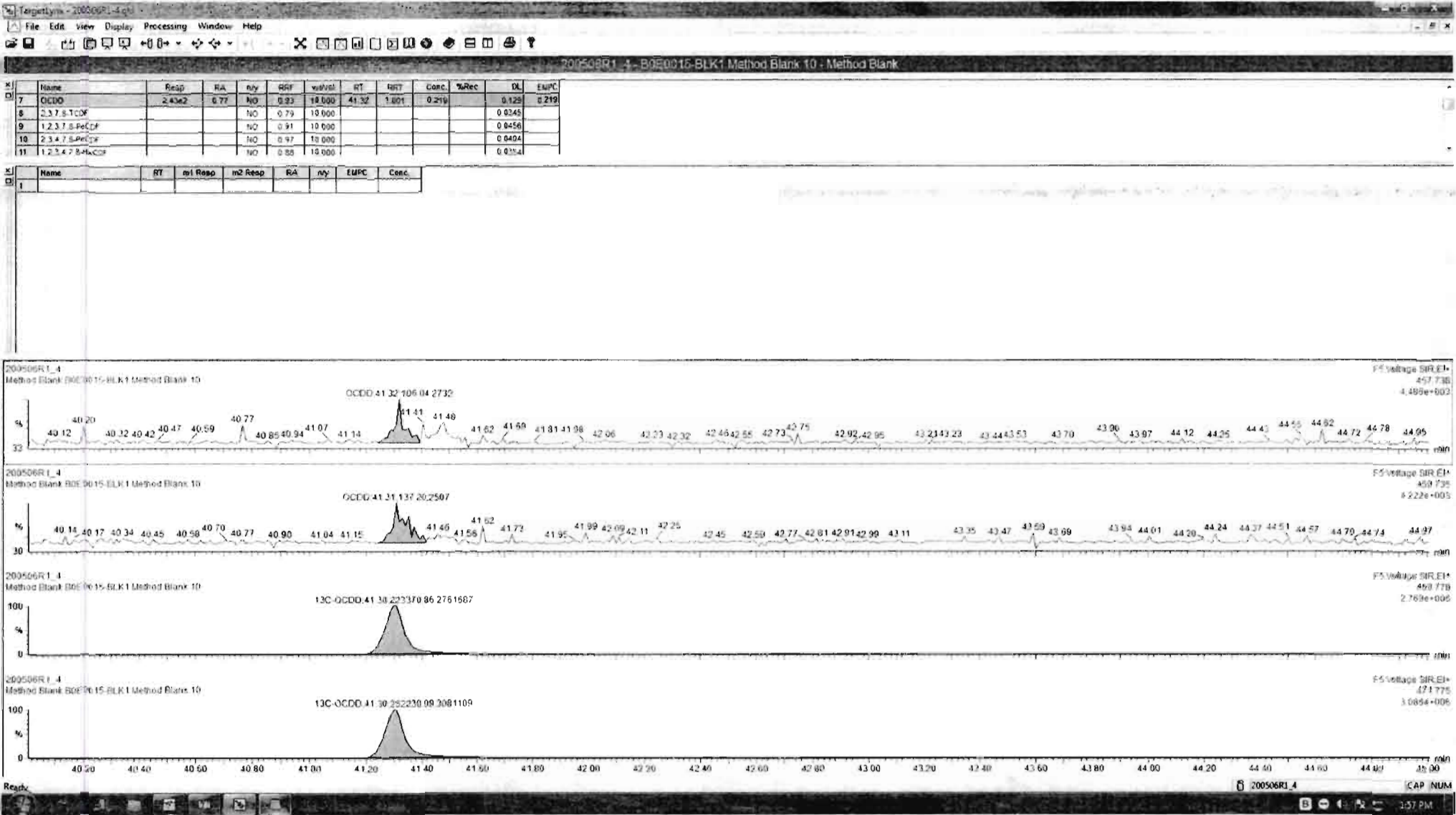
13C-OCDD

200506R1\_4



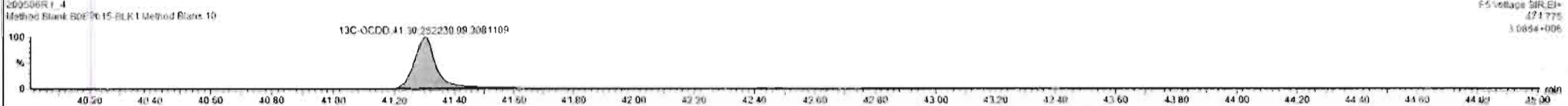
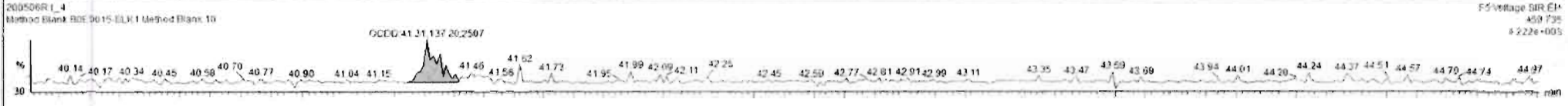
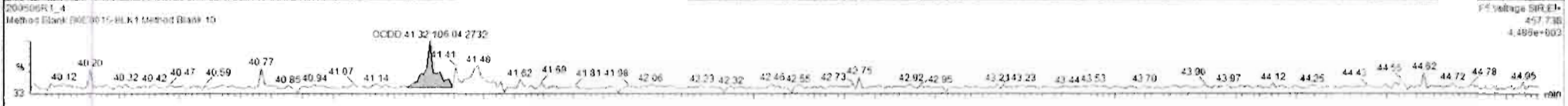
200506R1\_4





Name	Resp	RA	n/y	RRF	vsVst	RT	RRT	Conc.	%Rec	DL	EMPC
7 OCDD	2.43e2	0.77	NO	0.93	18.000	41.32	1.001	0.219		0.129	0.219
8 2,3,7,8-TCDF			NO	0.79	18.000					0.0345	
9 1,2,3,7,8-PeCDF			NO	0.91	18.000					0.0456	
10 2,3,4,7,8-PeCDF			NO	0.97	18.000					0.0404	
11 1,2,3,4,7,8-HxCDF			NO	0.88	18.000					0.0154	

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



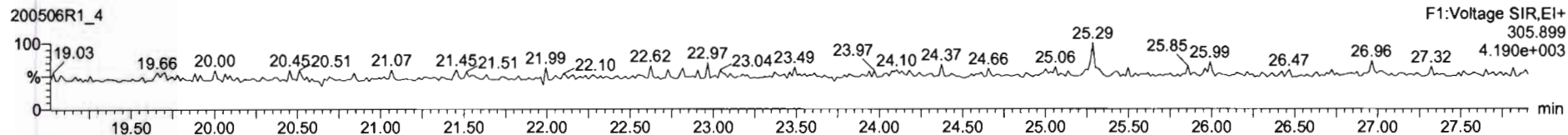
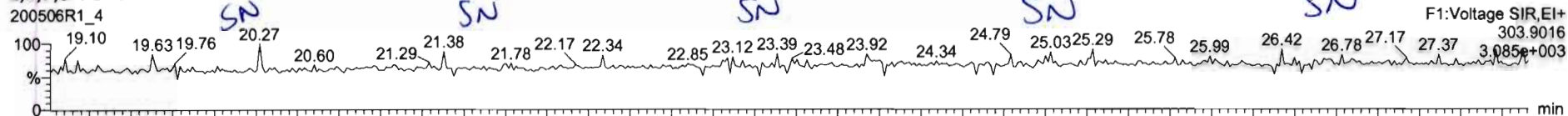
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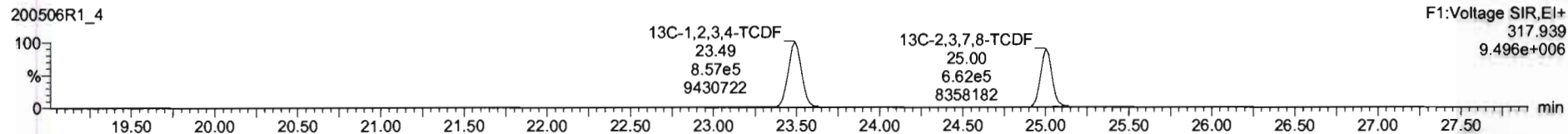
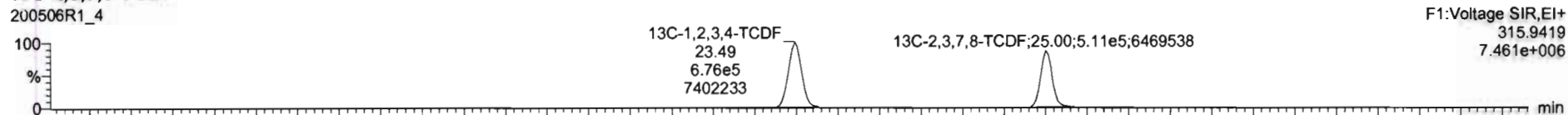
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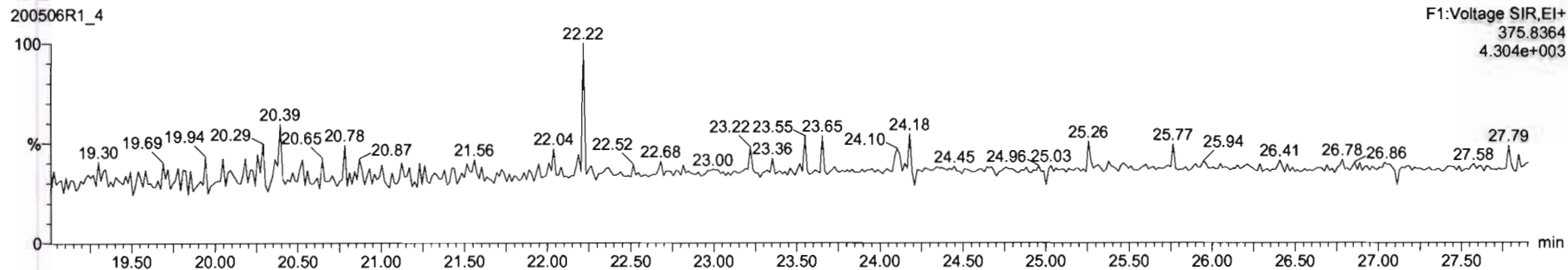
2,3,7,8-TCDF



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



DPE1



Dataset: Untitled

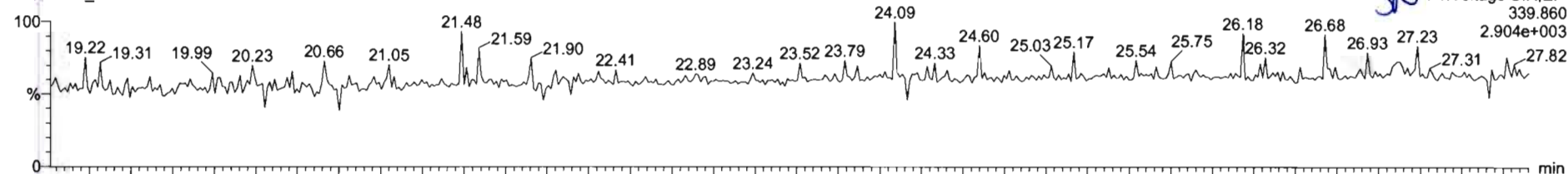
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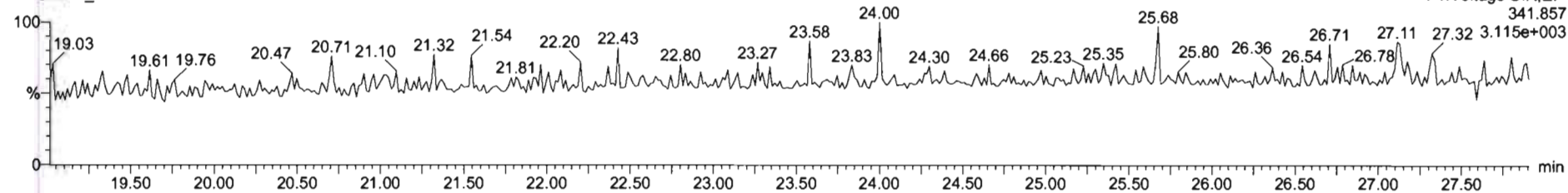
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1st Func. Penta-Furans

200506R1\_4

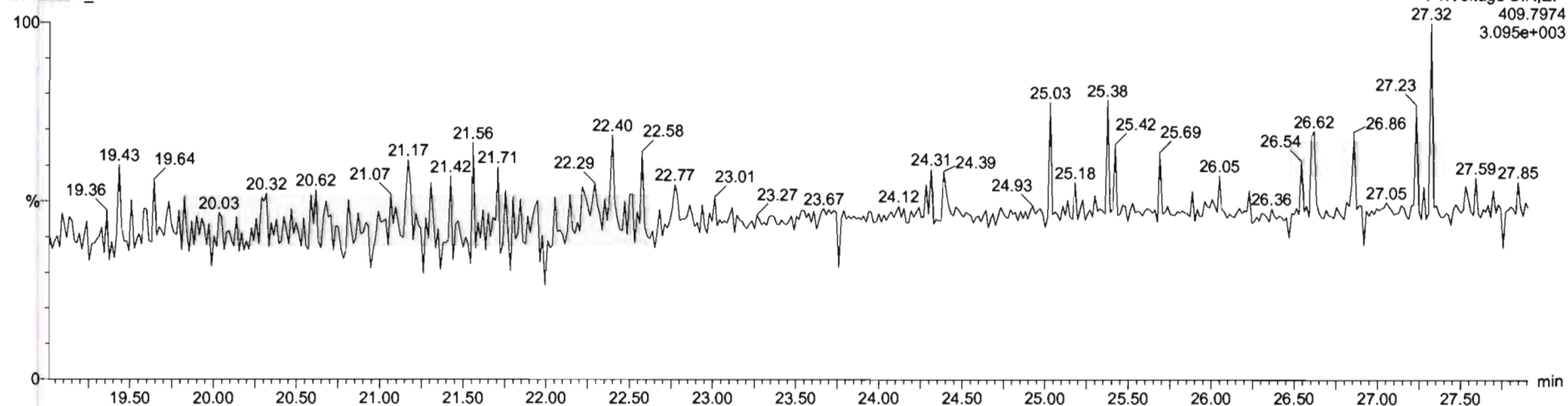


200506R1\_4



DPE6

200506R1\_4

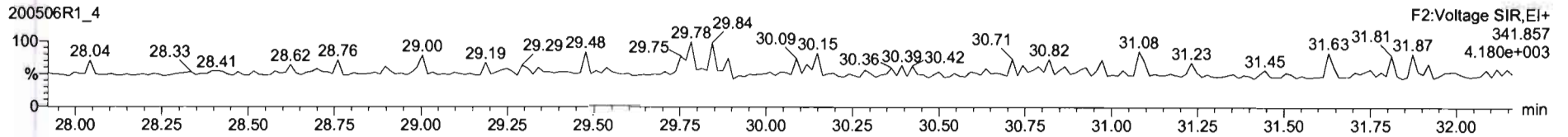
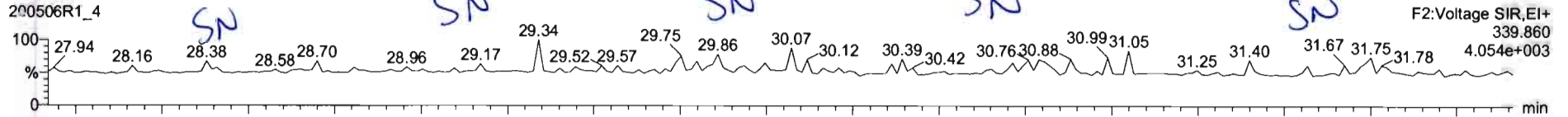


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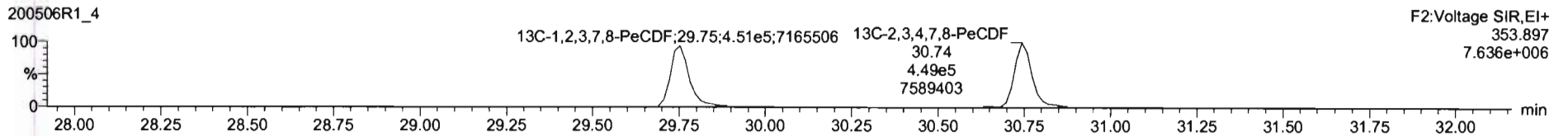
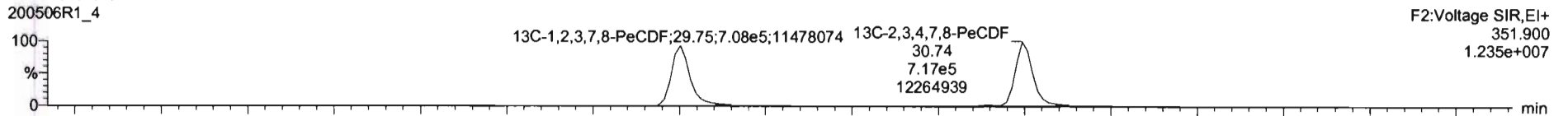
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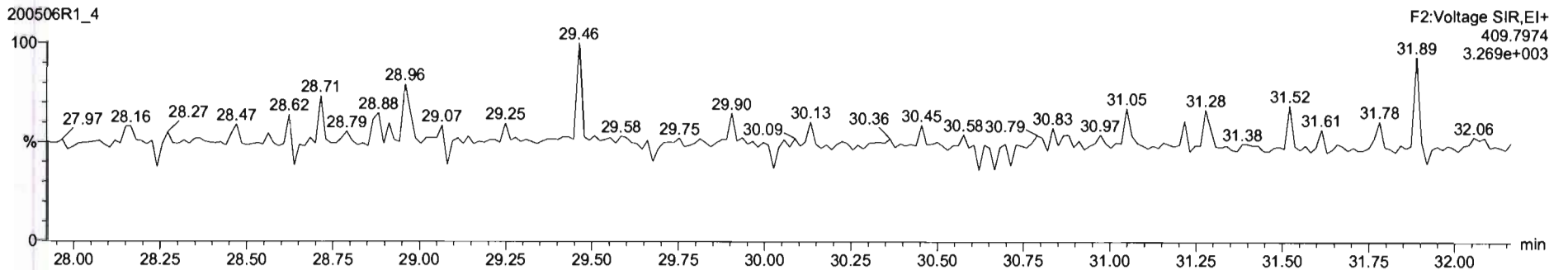
1,2,3,7,8-PeCDF



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



DPE2



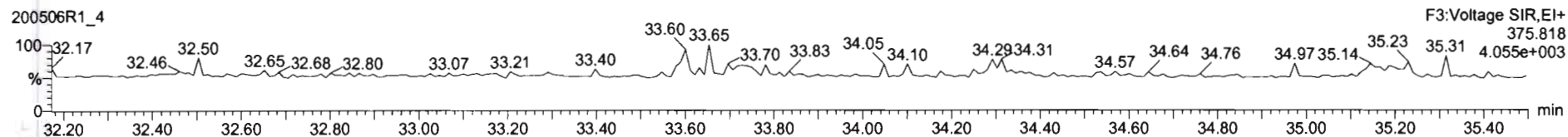
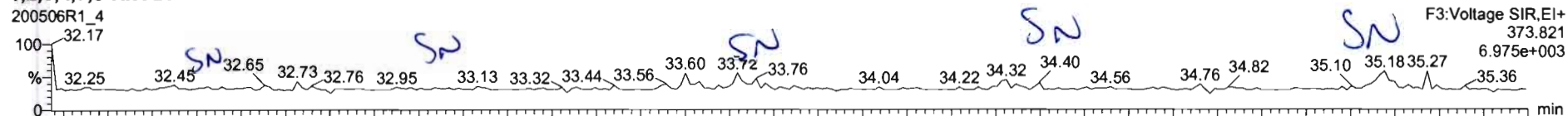
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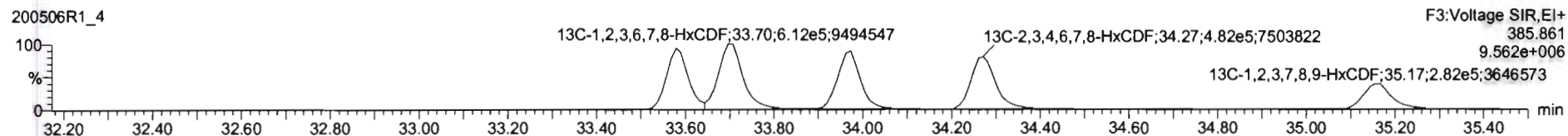
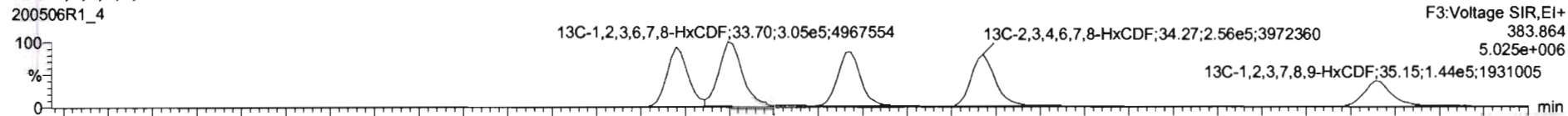
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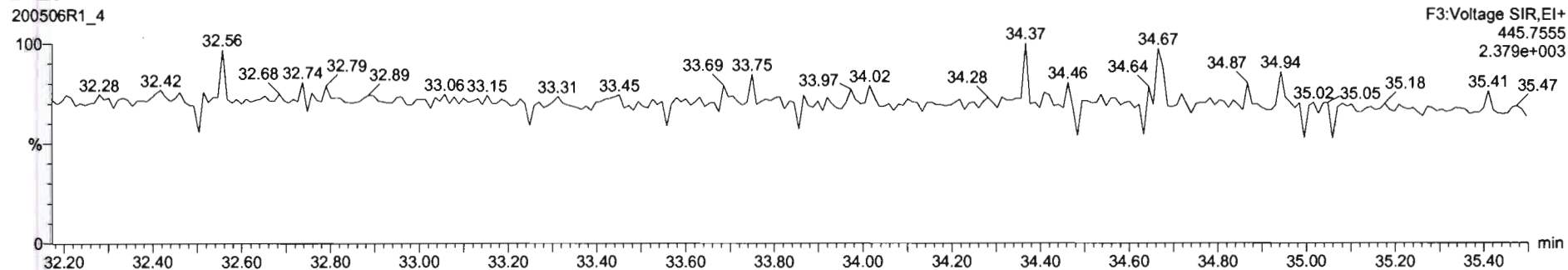
**1,2,3,4,7,8-HxCDF**



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



**DPE3**



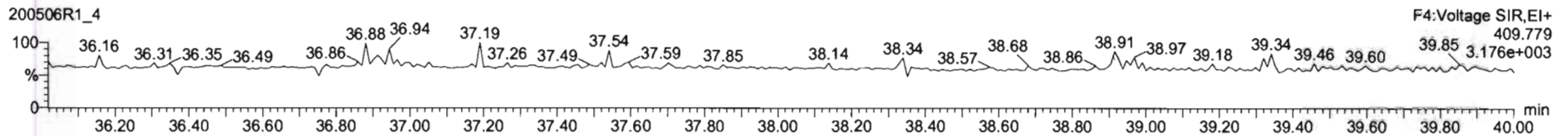
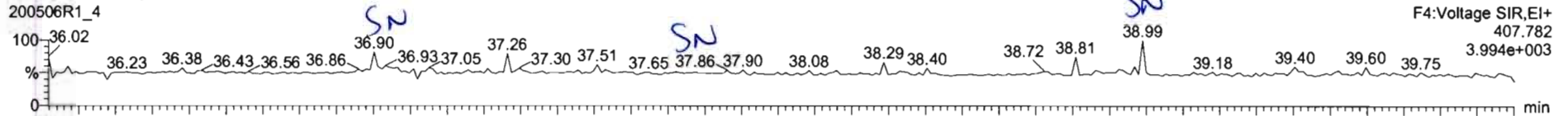


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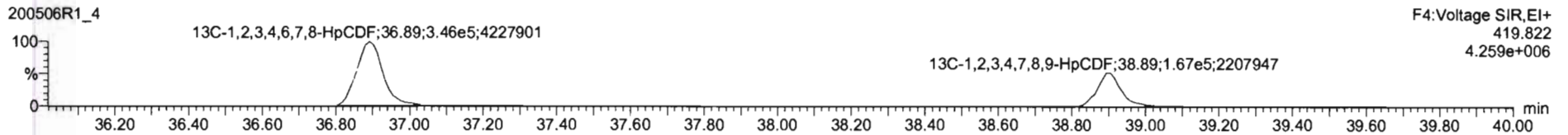
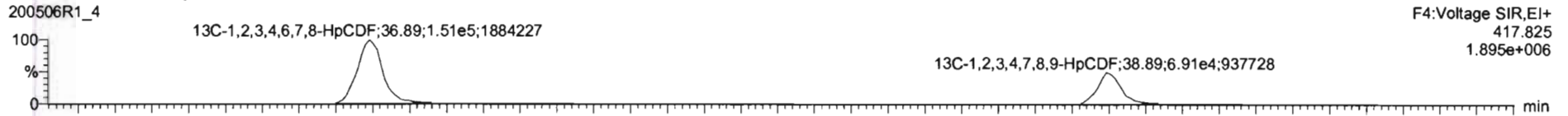
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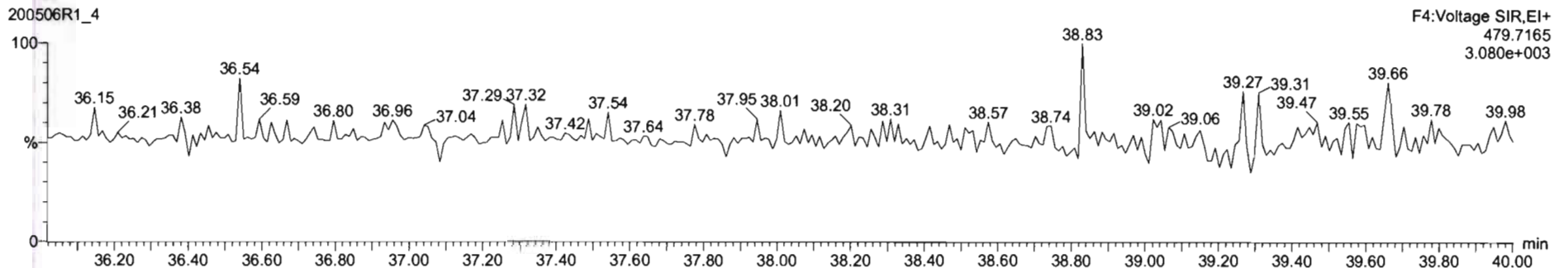
1,2,3,4,6,7,8-HpCDF



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



DPE4

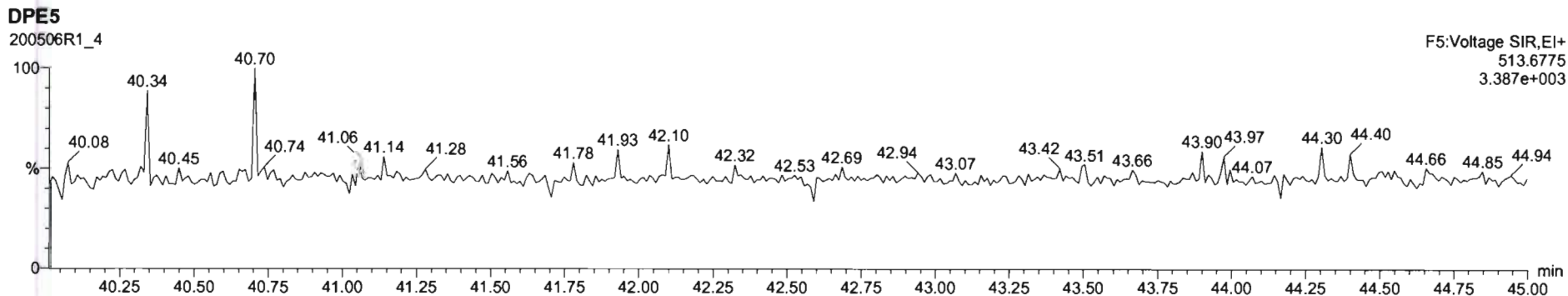
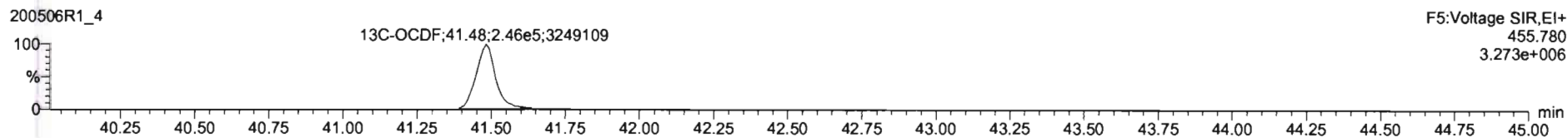
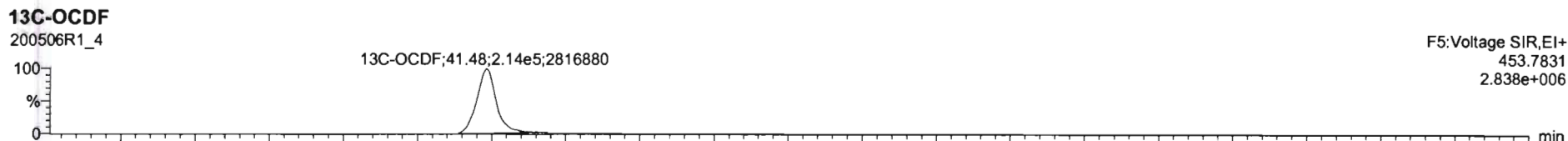
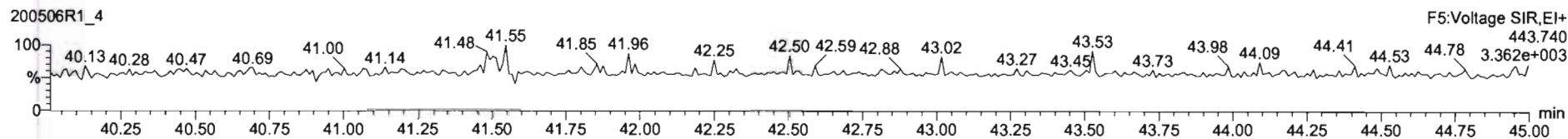
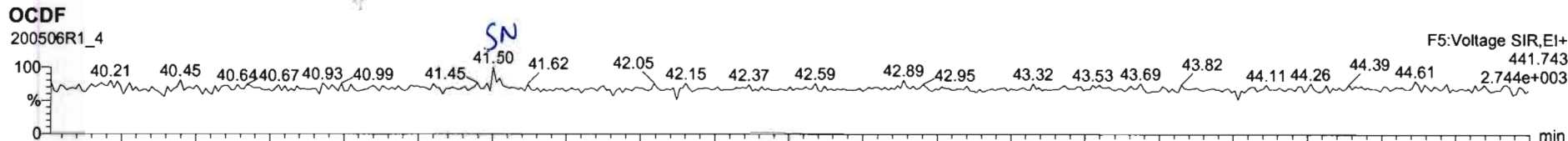


Dataset: Untitled

Last Altered: Wednesday, May 06, 2020 1:51:26 PM Pacific Daylight Time

Printed: Wednesday, May 06, 2020 1:51:29 PM Pacific Daylight Time

Name: 200506R1\_4, Date: 06-May-2020, Time: 10:17:03, ID: B0E0015-BLK1 Method Blank 10, Description: Method Blank

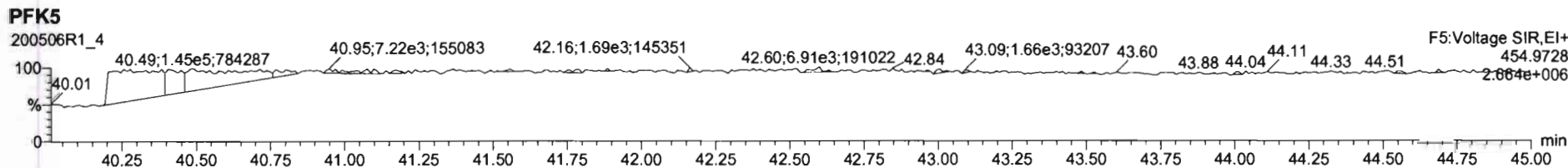
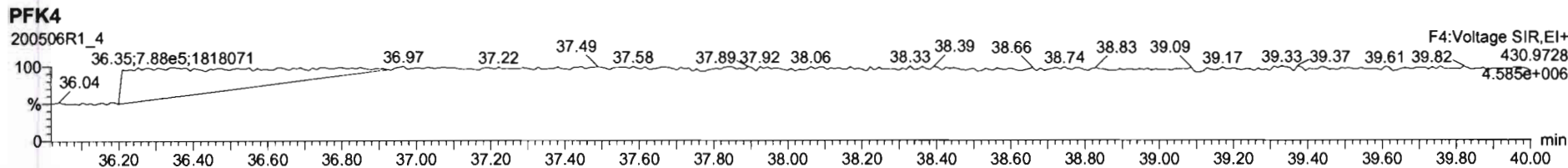
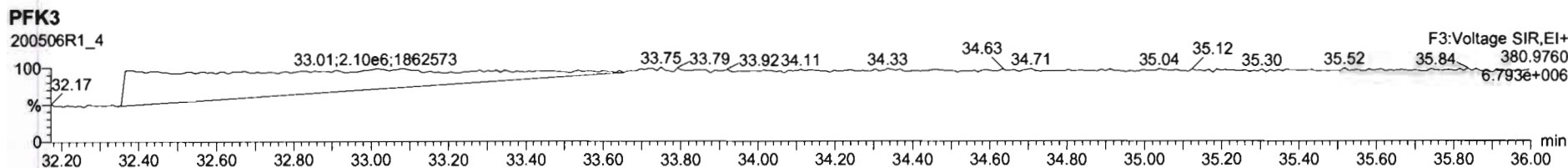
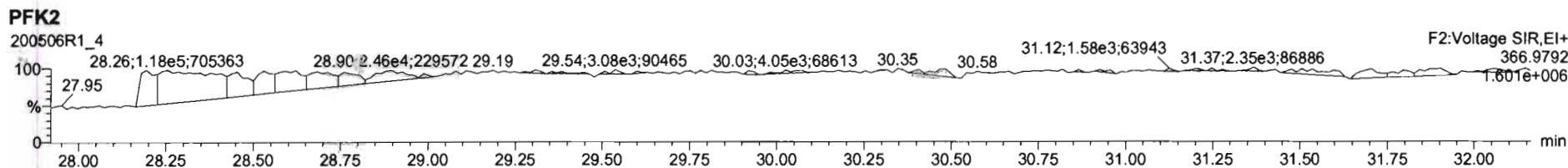
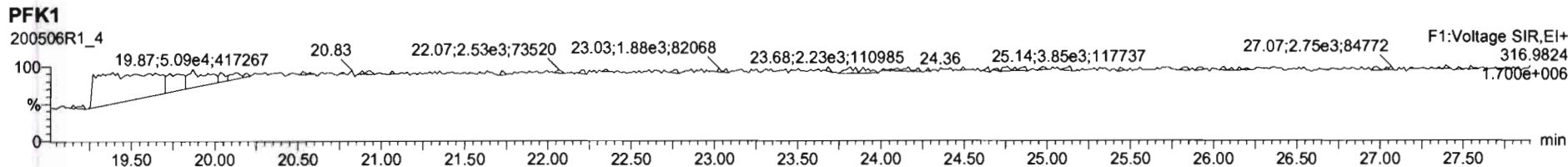


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Name: 200506R1\_4, Date: 06-May-2020, Time: 10:17:03, ID: B0E0015-BLK1 Method Blank 10, Description: Method Blank



Dataset: U:\VG12.PRO\Results\200506R1\200506R1-2.qld

Last Altered: Wednesday, May 06, 2020 9:30:15 AM Pacific Daylight Time

Printed: Wednesday, May 06, 2020 1:59:29 PM Pacific Daylight Time

*GRB 05/06/2020*

*CT 05/07/2020*

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200506R1\_2, Date: 06-May-2020, Time: 08:43:47, ID: B0E0015-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	8.61e4	0.77	NO	0.947	10.000	25.991	25.98	1.001	1.001	16.344		0.0741	16.3
2	2 1,2,3,7,8-PeCDD	3.28e5	0.62	NO	0.942	10.000	31.085	31.08	1.001	1.000	82.417		0.112	82.4
3	3 1,2,3,4,7,8-HxCDD	2.52e5	1.24	NO	1.06	10.000	34.452	34.45	1.000	1.000	87.107		0.274	87.1
4	4 1,2,3,6,7,8-HxCDD	2.83e5	1.25	NO	0.915	10.000	34.548	34.56	1.000	1.000	89.422		0.295	89.4
5	5 1,2,3,7,8,9-HxCDD	2.44e5	1.20	NO	0.915	10.000	34.835	34.83	1.000	1.000	89.056		0.353	89.1
6	6 1,2,3,4,6,7,8-HpCDD	1.72e5	1.03	NO	0.898	10.000	38.319	38.33	1.000	1.001	89.584		0.436	89.6
7	7 OCDD	2.70e5	0.89	NO	0.933	10.000	41.311	41.32	1.000	1.000	179.05		0.331	179
8	8 2,3,7,8-TCDF	9.52e4	0.74	NO	0.787	10.000	25.027	25.03	1.001	1.001	17.571		0.0743	17.6
9	9 1,2,3,7,8-PeCDF	5.07e5	1.55	NO	0.910	10.000	29.772	29.77	1.001	1.000	87.367		0.162	87.4
10	10 2,3,4,7,8-PeCDF	4.94e5	1.56	NO	0.966	10.000	30.774	30.76	1.001	1.000	85.193		0.158	85.2
11	11 1,2,3,4,7,8-HxCDF	3.13e5	1.24	NO	0.878	10.000	33.579	33.59	1.000	1.000	95.772		0.270	95.8
12	12 1,2,3,6,7,8-HxCDF	3.67e5	1.20	NO	0.874	10.000	33.717	33.72	1.000	1.000	94.730		0.267	94.7
13	13 2,3,4,6,7,8-HxCDF	3.37e5	1.26	NO	0.922	10.000	34.305	34.28	1.001	1.000	97.397		0.290	97.4
14	14 1,2,3,7,8,9-HxCDF	2.32e5	1.22	NO	0.864	10.000	35.166	35.18	1.000	1.000	94.918		0.488	94.9
15	15 1,2,3,4,6,7,8-HpCDF	2.31e5	0.98	NO	0.871	10.000	36.928	36.91	1.001	1.001	97.152		0.413	97.2
16	16 1,2,3,4,7,8,9-HpCDF	1.48e5	0.99	NO	1.01	10.000	38.904	38.92	1.000	1.000	96.862		0.590	96.9
17	17 OCDF	2.69e5	0.87	NO	0.802	10.000	41.492	41.50	1.000	1.000	188.45		0.304	188
18	18 13C-2,3,7,8-TCDD	1.11e6	0.76	NO	1.16	10.000	25.938	25.96	1.026	1.027	203.53	102	0.228	
19	19 13C-1,2,3,7,8-PeCDD	8.44e5	0.63	NO	0.847	10.000	31.013	31.06	1.227	1.229	211.36	106	0.312	
20	20 13C-1,2,3,4,7,8-HxCDD	5.44e5	1.27	NO	0.750	10.000	34.452	34.44	1.014	1.014	204.03	102	0.582	
21	21 13C-1,2,3,6,7,8-HxCDD	6.93e5	1.27	NO	0.963	10.000	34.564	34.55	1.017	1.017	202.44	101	0.453	
22	22 13C-1,2,3,7,8,9-HxCDD	5.99e5	1.27	NO	0.838	10.000	34.832	34.83	1.025	1.025	201.06	101	0.521	
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.29e5	1.05	NO	0.641	10.000	38.318	38.31	1.128	1.128	187.91	94.0	0.474	
24	24 13C-OCDD	6.46e5	0.84	NO	0.586	10.000	41.308	41.31	1.216	1.216	309.64	77.4	0.703	
25	25 13C-2,3,7,8-TCDF	1.38e6	0.78	NO	1.03	10.000	25.001	25.00	0.989	0.989	181.47	90.7	0.377	
26	26 13C-1,2,3,7,8-PeCDF	1.28e6	1.63	NO	0.845	10.000	29.706	29.75	1.176	1.177	205.86	103	0.676	
27	27 13C-2,3,4,7,8-PeCDF	1.20e6	1.59	NO	0.814	10.000	30.694	30.74	1.215	1.217	200.96	100	0.702	
28	28 13C-1,2,3,4,7,8-HxCDF	7.45e5	0.51	NO	1.00	10.000	33.592	33.58	0.989	0.988	208.44	104	0.637	
29	29 13C-1,2,3,6,7,8-HxCDF	8.86e5	0.51	NO	1.14	10.000	33.715	33.71	0.992	0.992	219.19	110	0.563	
30	30 13C-2,3,4,6,7,8-HxCDF	7.50e5	0.50	NO	1.02	10.000	34.282	34.27	1.009	1.009	206.39	103	0.626	
31	31 13C-1,2,3,7,8,9-HxCDF	5.65e5	0.50	NO	0.845	10.000	35.172	35.17	1.035	1.035	187.96	94.0	0.757	

Dataset: U:\VG12.PRO\Results\200506R1\200506R1-2.qld

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Printed: Wednesday, May 06, 2020 1:59:29 PM Pacific Daylight Time

Name: 200506R1\_2, Date: 06-May-2020, Time: 08:43:47, ID: B0E0015-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	5.45e5	0.43	NO	0.771	10.000	36.901	36.89	1.086	1.086	198.73	99.4	0.541	
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.02e5	0.43	NO	0.482	10.000	38.909	38.90	1.145	1.145	175.97	88.0	0.865	
34	34 13C-OCDF	7.12e5	0.87	NO	0.669	10.000	41.477	41.49	1.221	1.221	299.57	74.9	0.446	
35	35 37Cl-2,3,7,8-TCDD	4.04e5			1.10	10.000	25.969	25.98	1.028	1.028	78.014	97.5	0.0553	
36	36 13C-1,2,3,4-TCDD	9.42e5	0.79	NO	1.00	10.000	25.350	25.27	1.000	1.000	200.00	100	0.264	
37	37 13C-1,2,3,4-TCDF	1.47e6	0.79	NO	1.00	10.000	23.560	23.49	1.000	1.000	200.00	100	0.390	
38	38 13C-1,2,3,4,6,9-HxCDF	7.11e5	0.51	NO	1.00	10.000	34.000	33.97	1.000	1.000	200.00	100	0.640	

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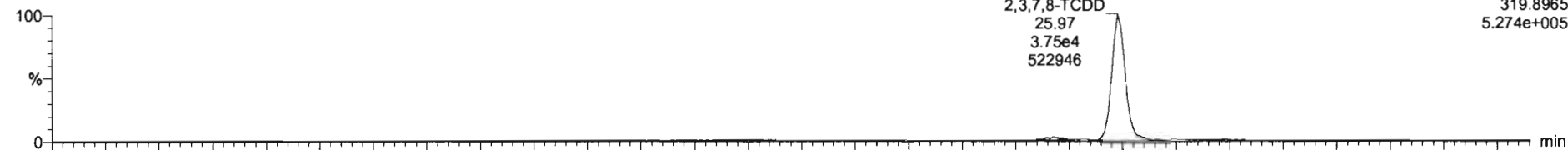
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Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

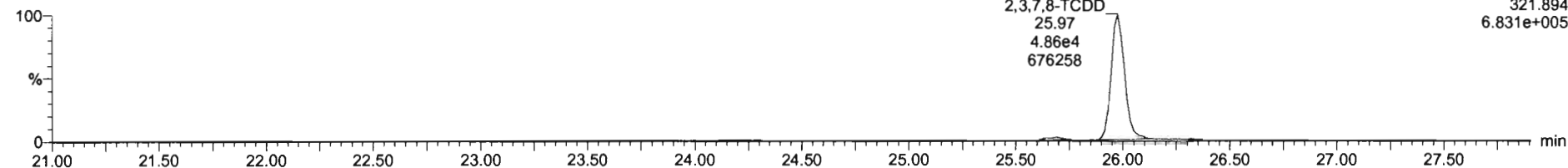
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**2,3,7,8-TCDD**

200506R1\_2

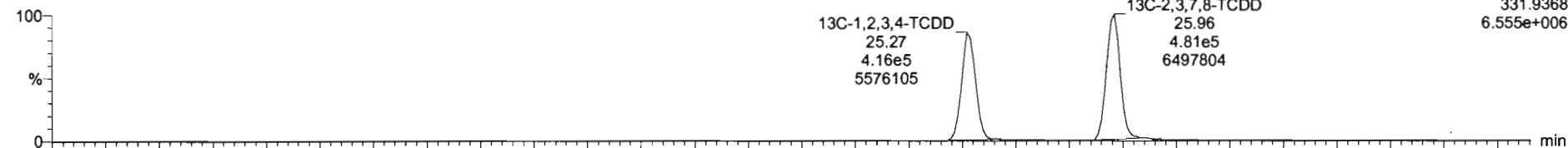


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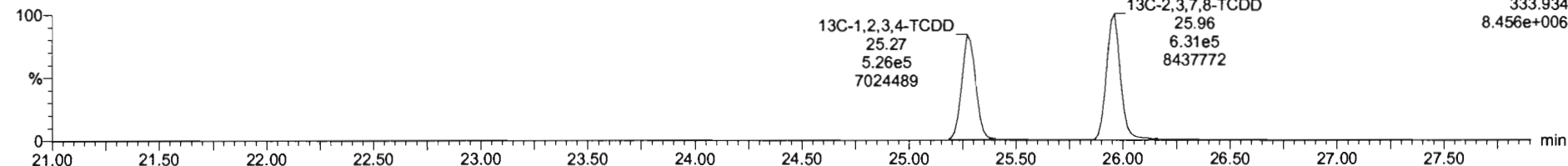


**13C-2,3,7,8-TCDD**

200506R1\_2



200506R1\_2



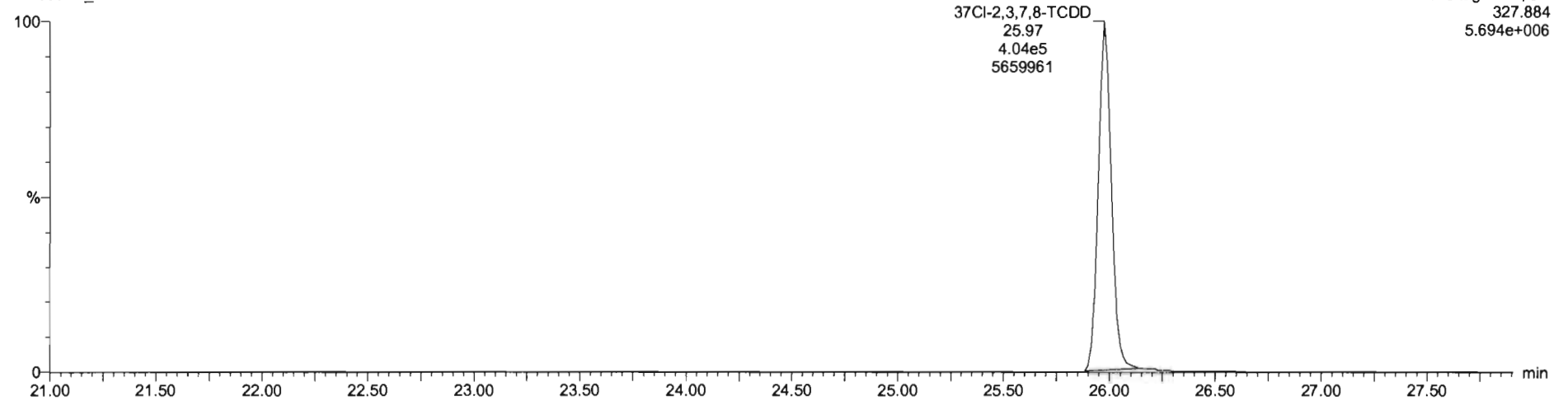
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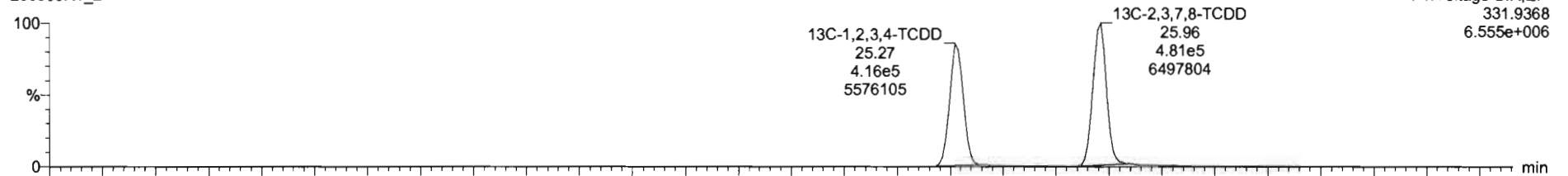
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200506R1\_2

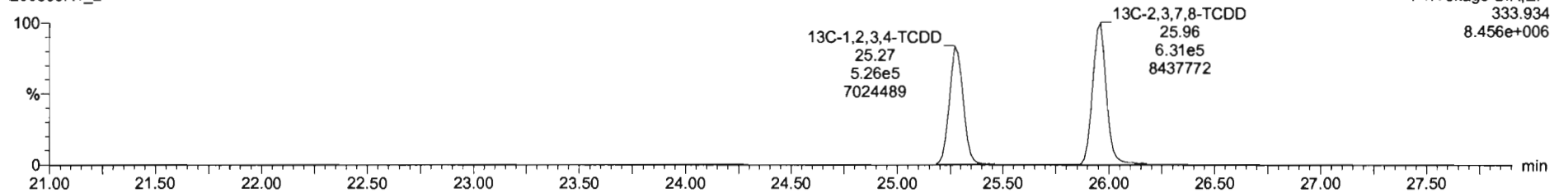


**13C-1,2,3,4-TCDD**

200506R1\_2



200506R1\_2



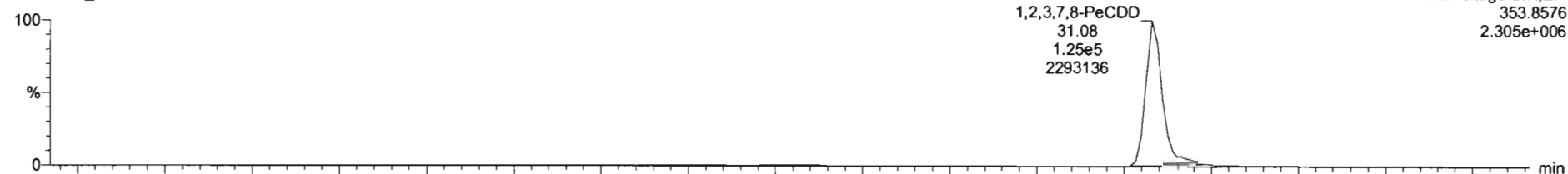
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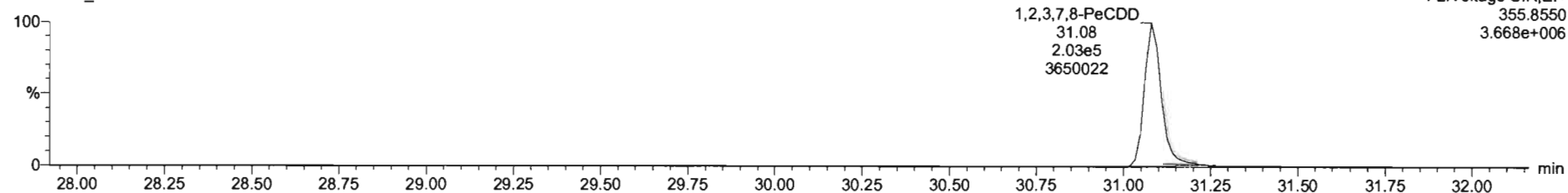
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**1,2,3,7,8-PeCDD**

200506R1\_2

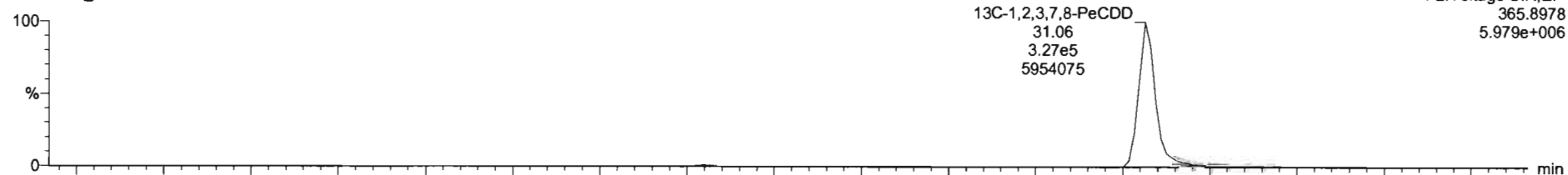


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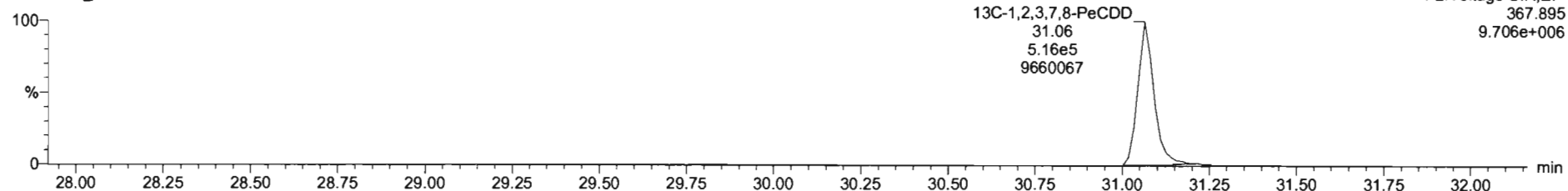


**13C-1,2,3,7,8-PeCDD**

200506R1\_2



200506R1\_2





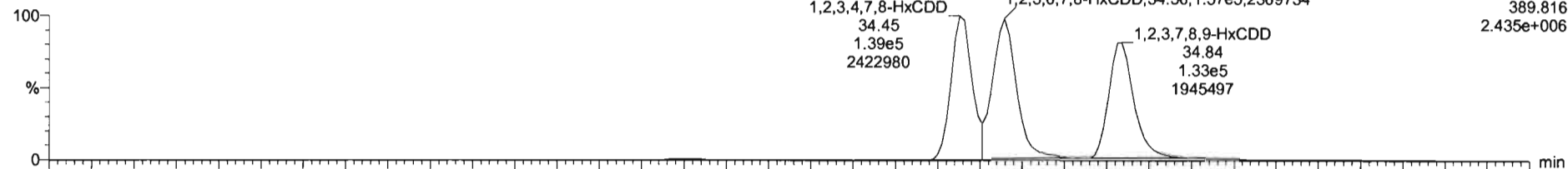
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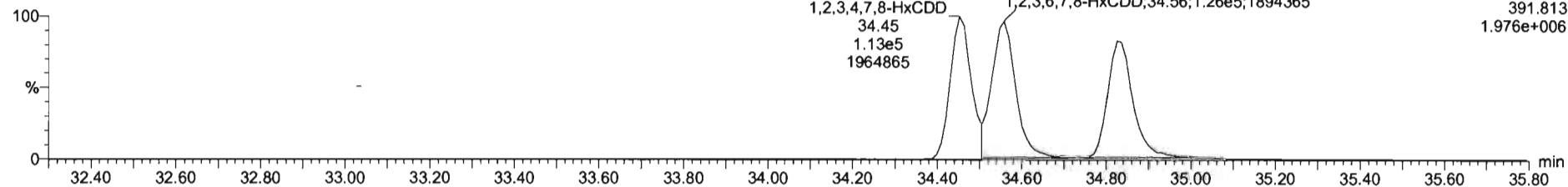
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1,2,3,4,7,8-HxCDD

200506R1\_2

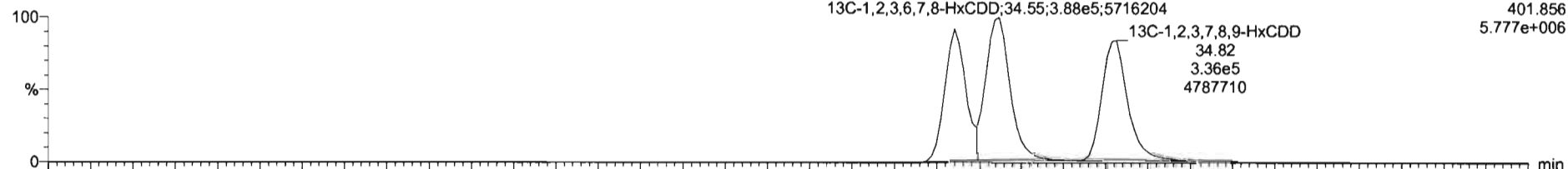


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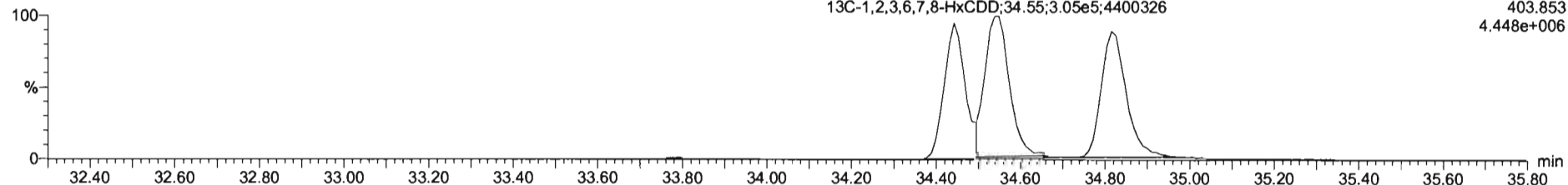


13C-1,2,3,4,7,8-HxCDD

200506R1\_2



200506R1\_2



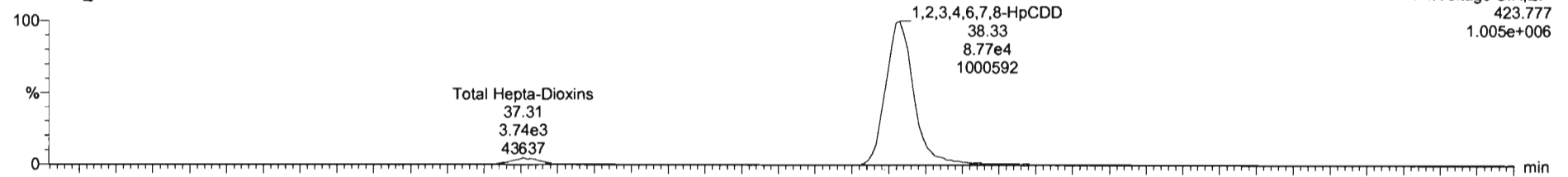
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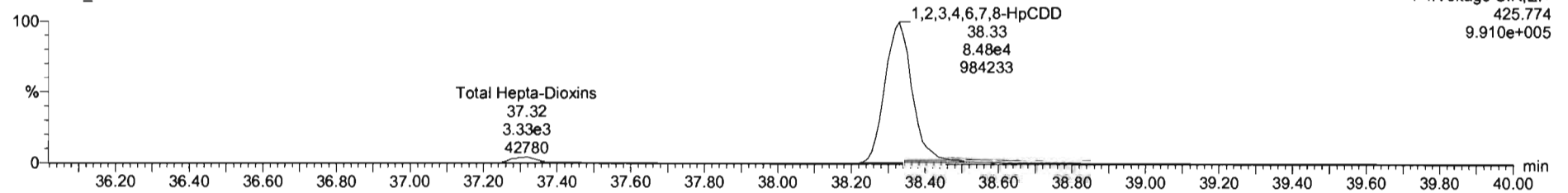
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**1,2,3,4,6,7,8-HpCDD**

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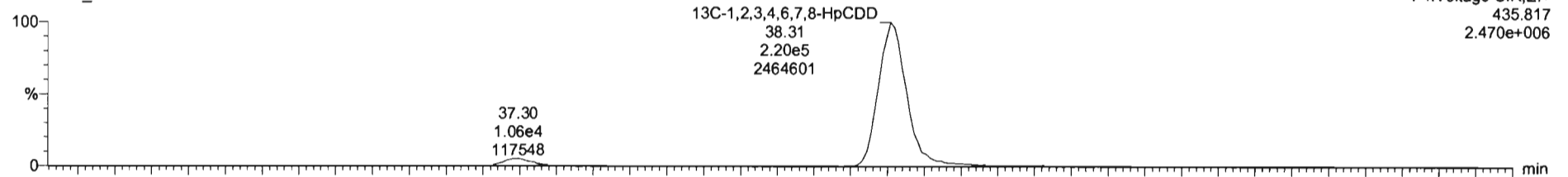


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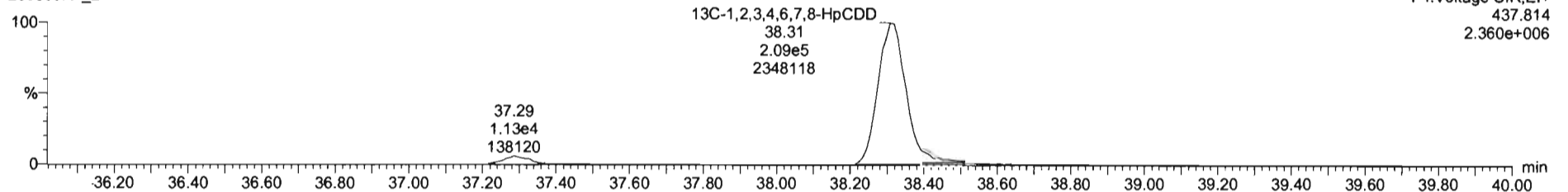


**13C-1,2,3,4,6,7,8-HpCDD**

200506R1\_2



200506R1\_2



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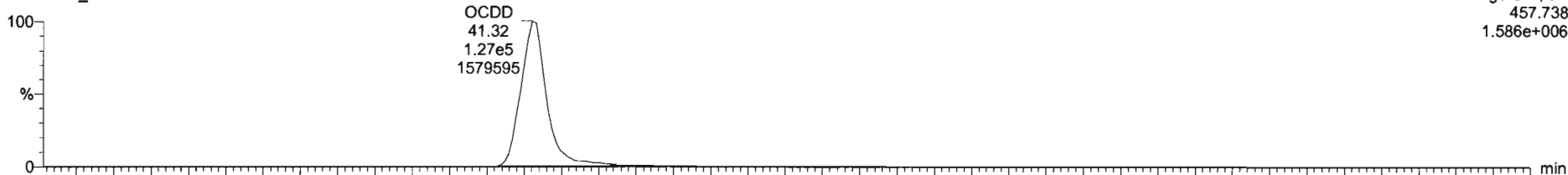
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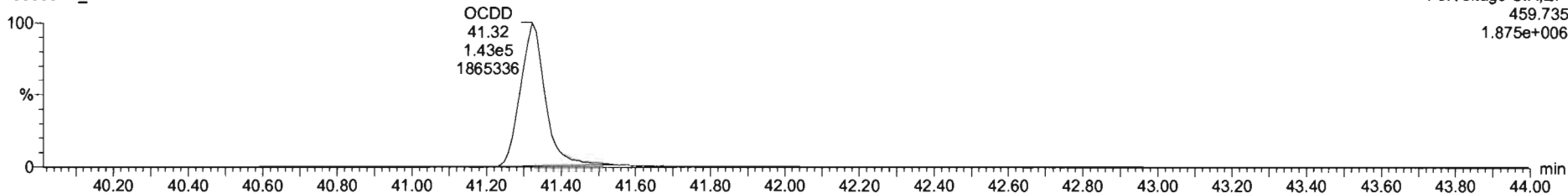
**OCDD**

200506R1\_2



F5:Voltage SIR,EI+  
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1.586e+006

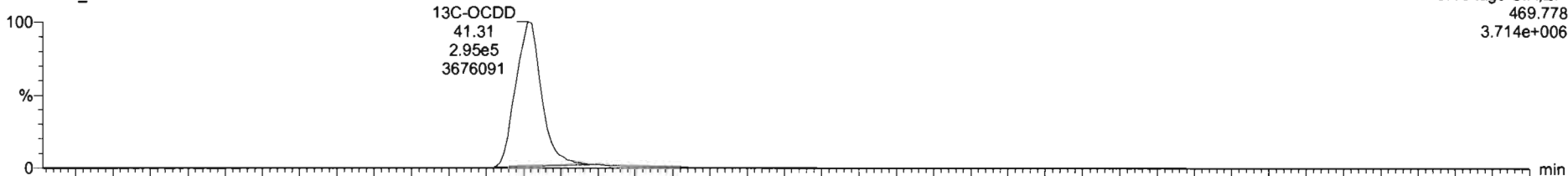
200506R1\_2



F5:Voltage SIR,EI+  
459.735  
1.875e+006

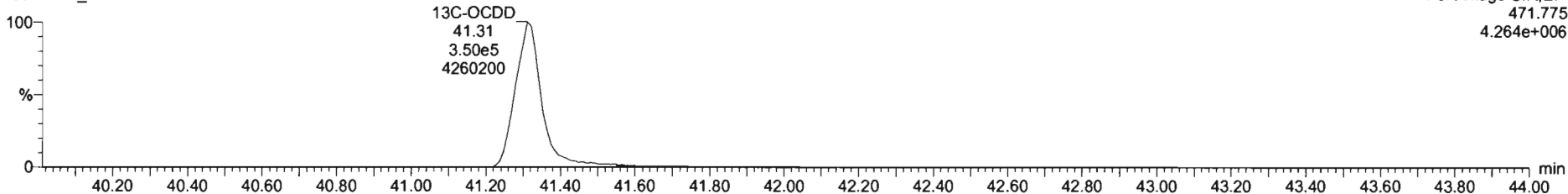
**13C-OCDD**

200506R1\_2



F5:Voltage SIR,EI+  
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3.714e+006

200506R1\_2



F5:Voltage SIR,EI+  
471.775  
4.264e+006

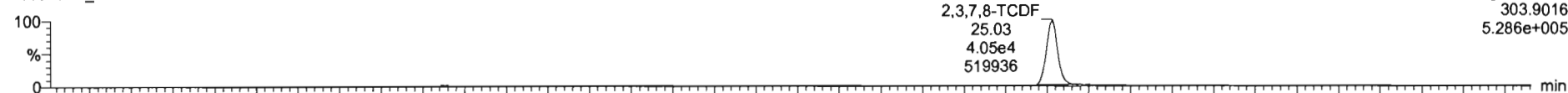
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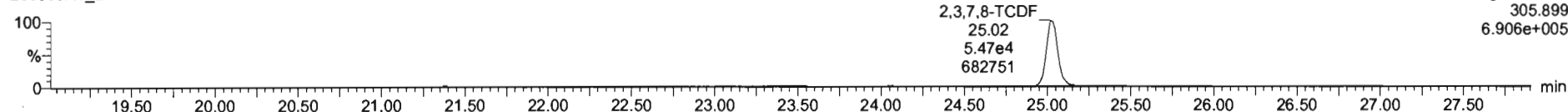
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**2,3,7,8-TCDF**

200506R1\_2

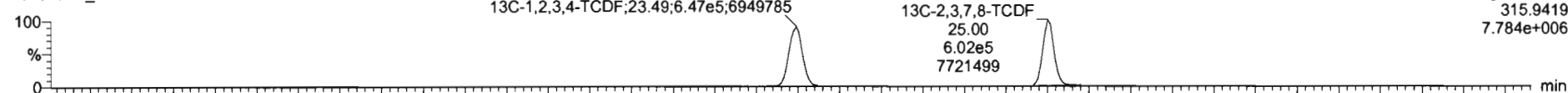


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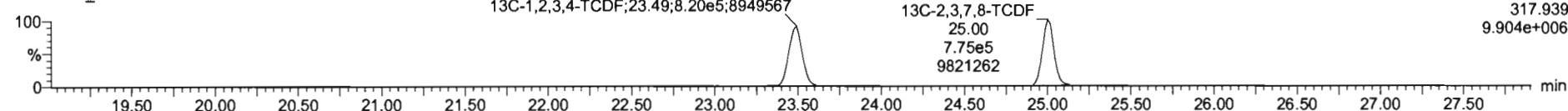


**13C-2,3,7,8-TCDF**

200506R1\_2

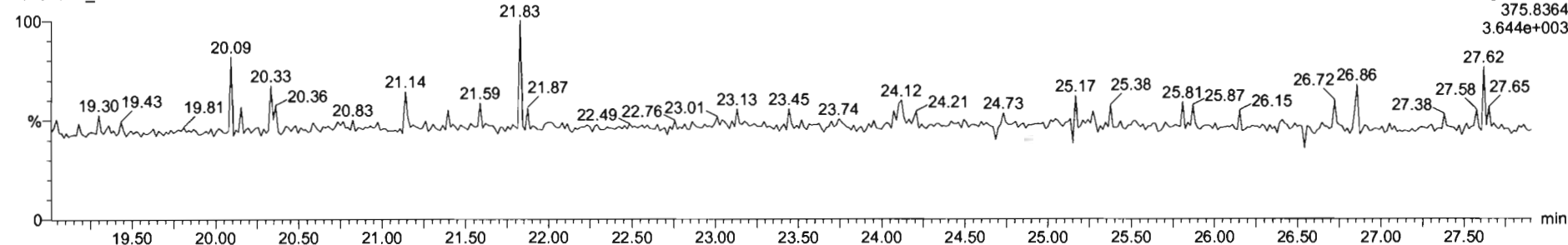


200506R1\_2



**DPE1**

200506R1\_2



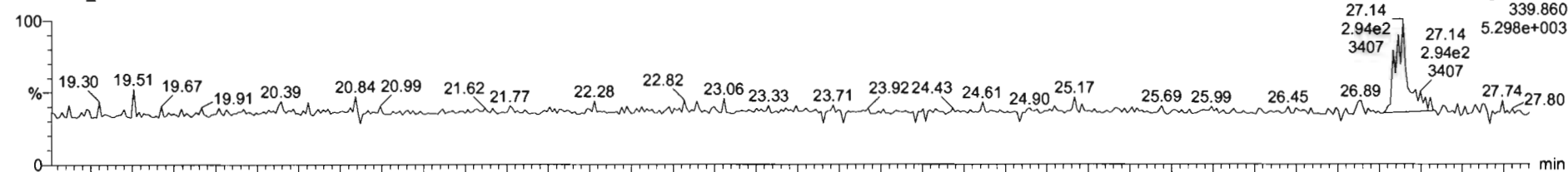
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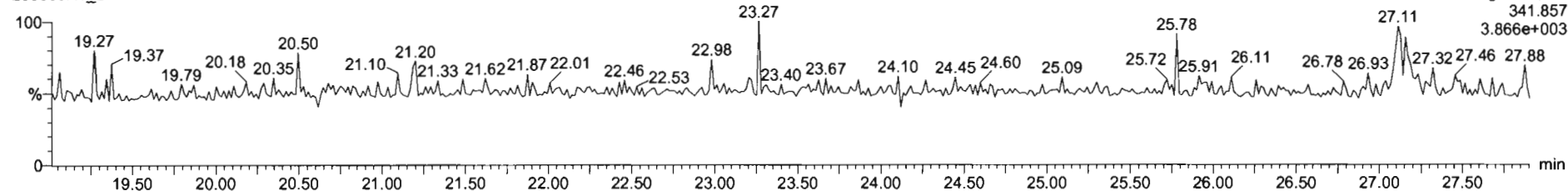
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200506R1\_2

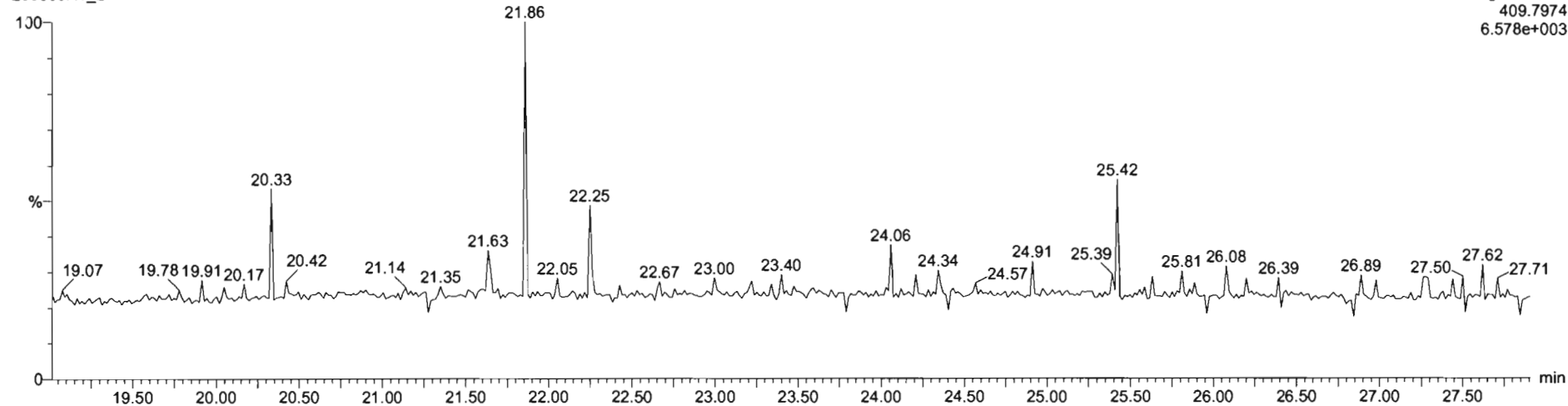


200506R1\_2



DPE6

200506R1\_2



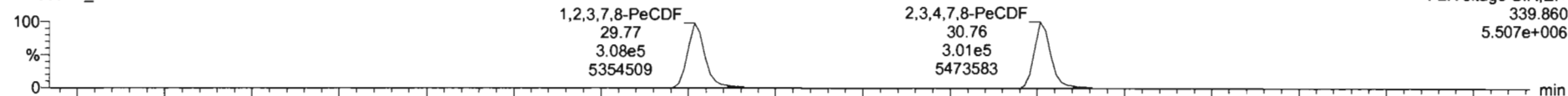
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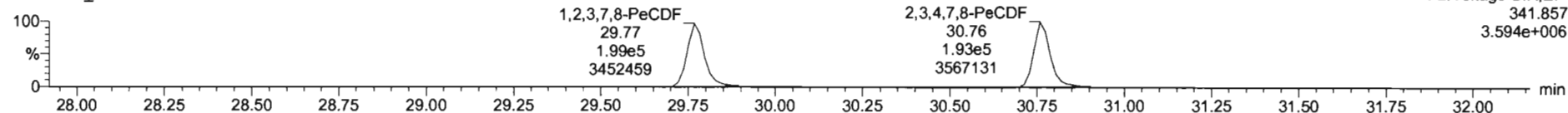
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**1,2,3,7,8-PeCDF**

200506R1\_2

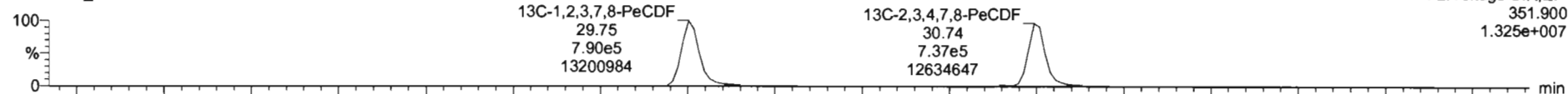


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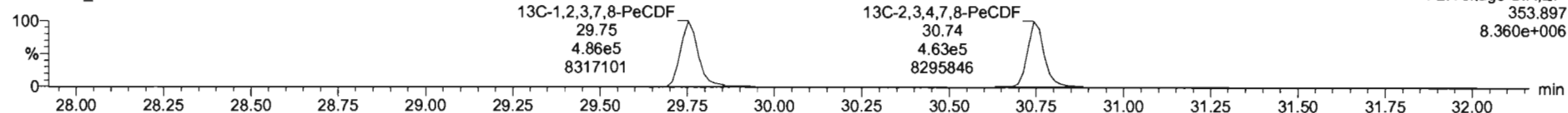


**13C-1,2,3,7,8-PeCDF**

200506R1\_2

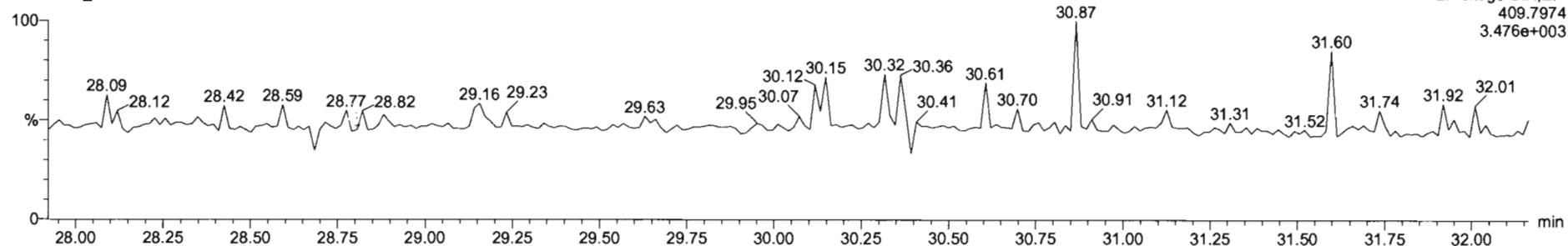


200506R1\_2



**DPE2**

200506R1\_2



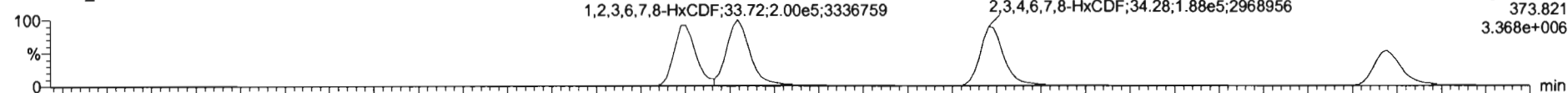
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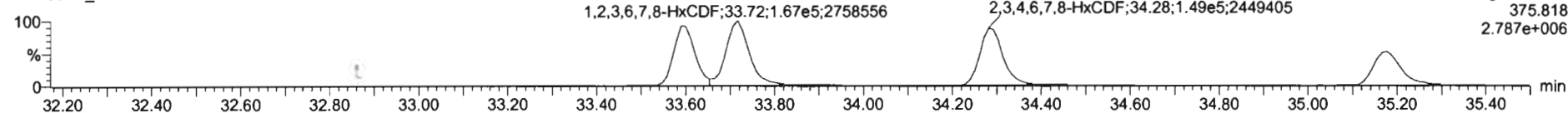
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**1,2,3,4,7,8-HxCDF**

200506R1\_2

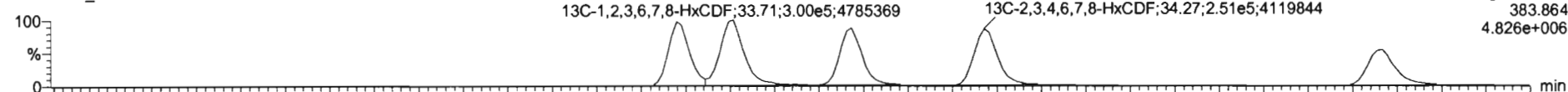


200506R1\_2

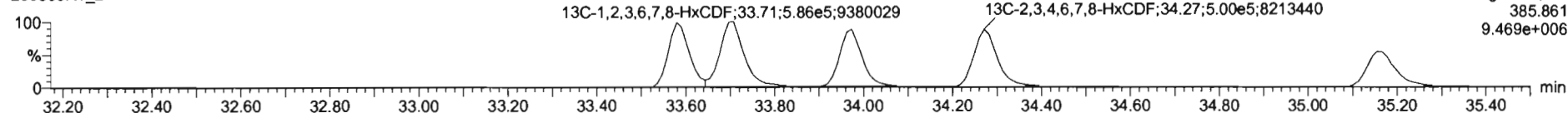


**13C-1,2,3,4,7,8-HxCDF**

200506R1\_2

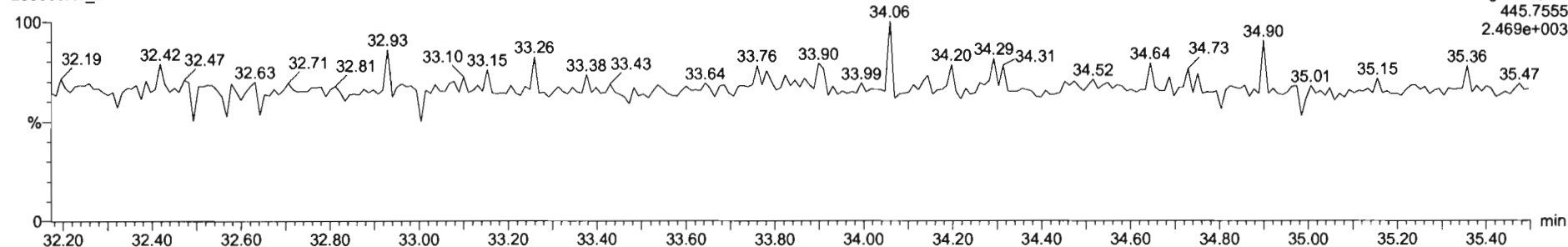


200506R1\_2



**DPE3**

200506R1\_2



Dataset: Untitled

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Printed: Wednesday, May 06, 2020 1:51:20 PM Pacific Daylight Time

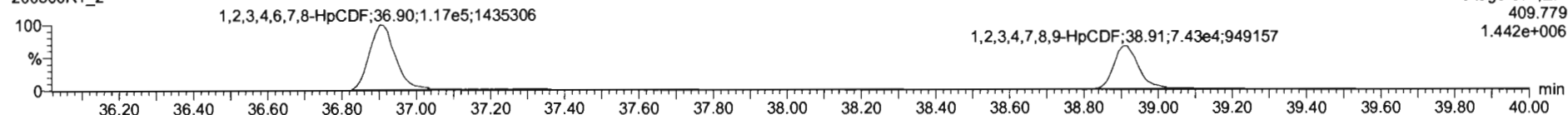
Name: 200506R1\_2, Date: 06-May-2020, Time: 08:43:47, ID: B0E0015-BS1 OPR 10, Description: OPR

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

200506R1\_2

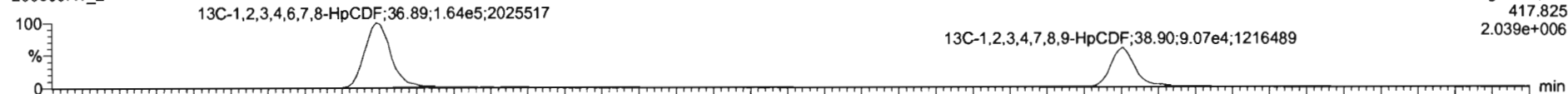


200506R1\_2

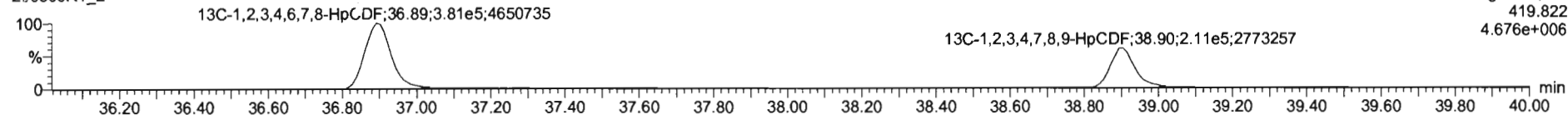


**13C-1,2,3,4,6,7,8-HpCDF**

200506R1\_2

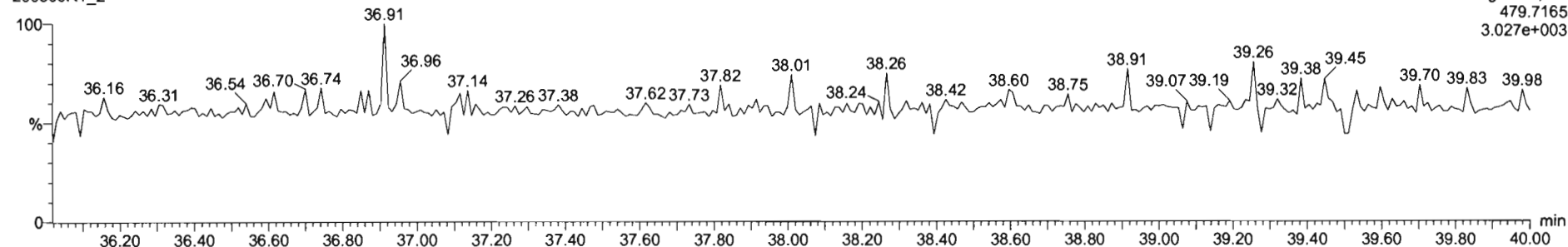


200506R1\_2



**DPE4**

200506R1\_2



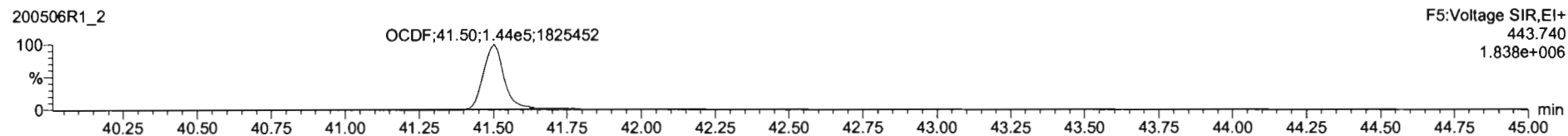
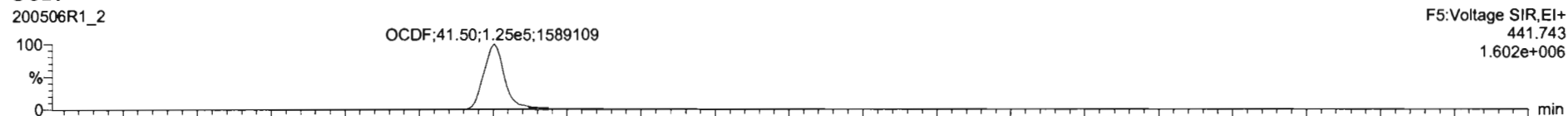


Dataset: Untitled

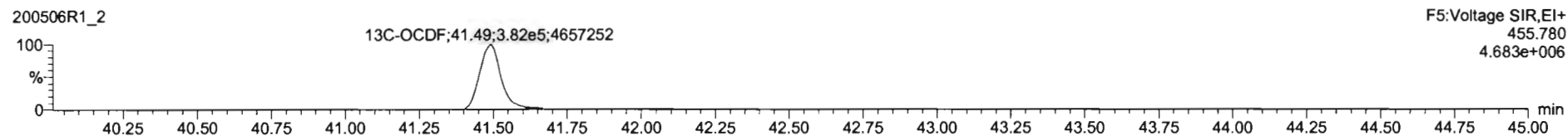
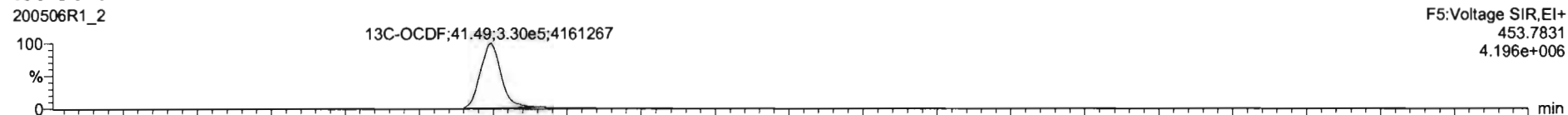
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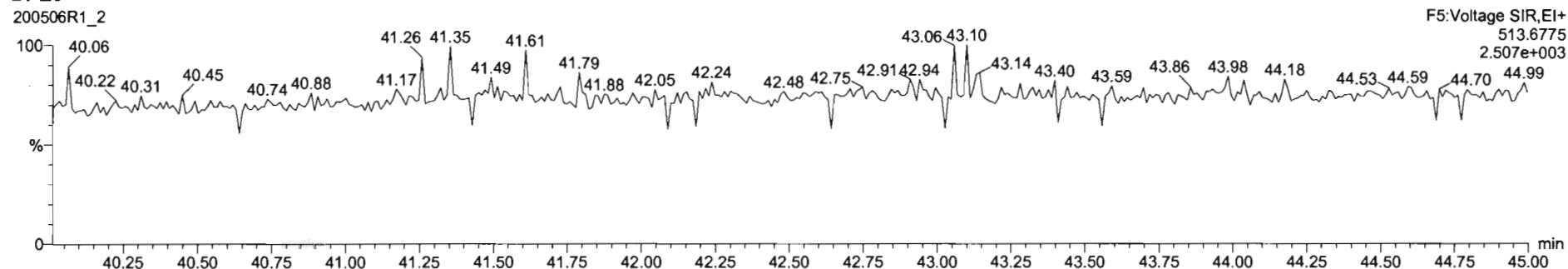
**OCDF**



**13C-OCDF**



**DPE5**

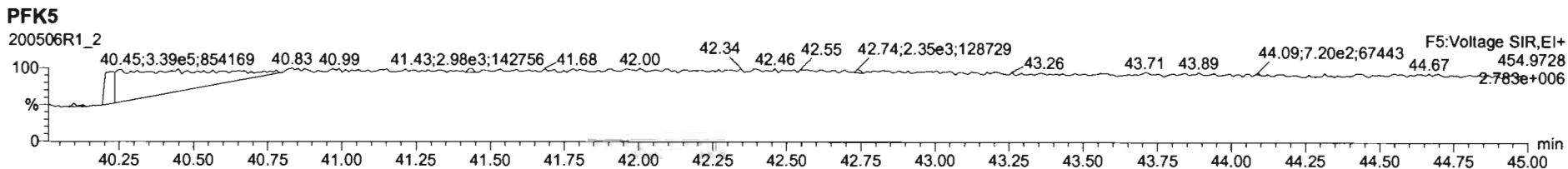
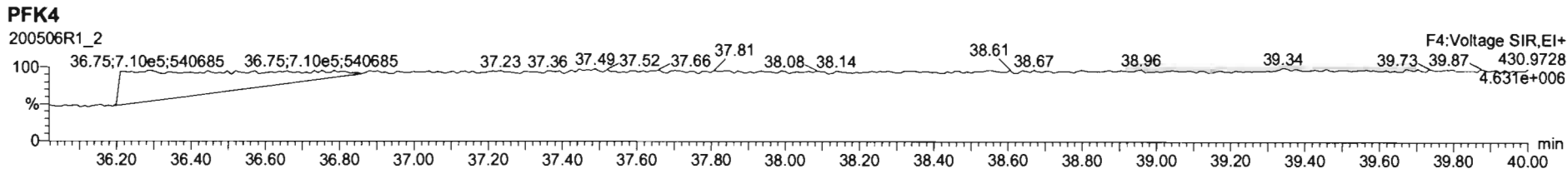
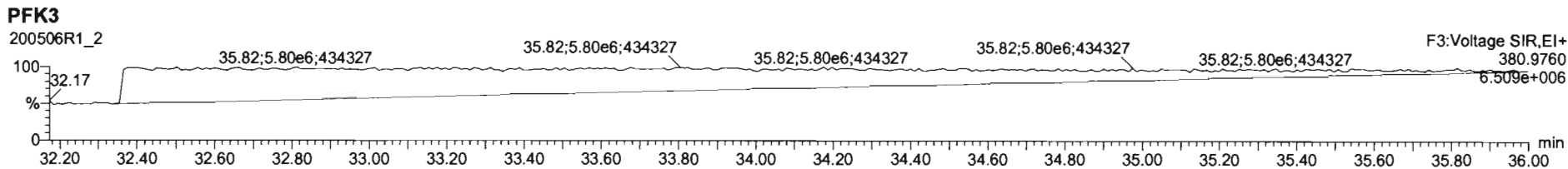
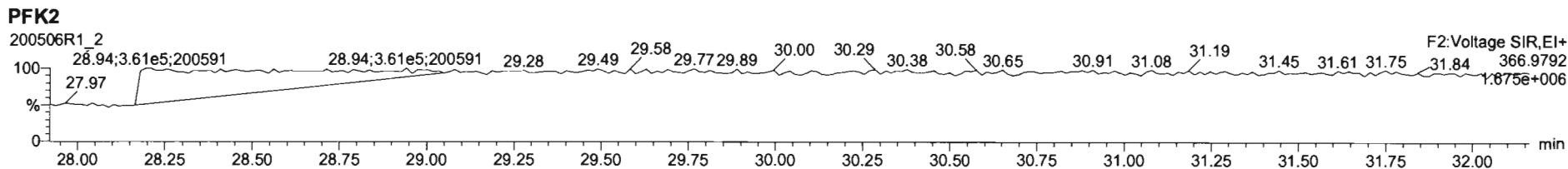
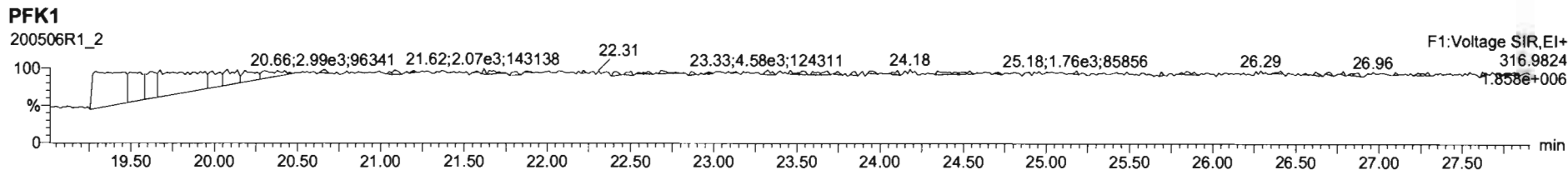


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Printed: Wednesday, May 06, 2020 1:51:20 PM Pacific Daylight Time

Name: 200506R1\_2, Date: 06-May-2020, Time: 08:43:47, ID: B0E0015-BS1 OPR 10, Description: OPR



Dataset: U:\VG12.PRO\Results\200518R1\200518R1-6.qld

Last Altered: Monday, May 18, 2020 15:07:30 Pacific Daylight Time

Printed: Monday, May 18, 2020 15:08:27 Pacific Daylight Time

*GER 05/18/2020*

*C705/21/2020*

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200518R1\_6, Date: 18-May-2020, Time: 12:17:25, ID: B0E0066-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	0.947	10.000	26.066		1.001				0.0517	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.000	31.131		1.001				0.0464	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.000	34.505		1.000				0.0511	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.000	34.590		1.000				0.0514	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.000	34.878		1.000				0.0579	
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.898	10.000	38.383		1.000				0.0797	
7	7 OCDD	6.39e2	0.86	NO	0.933	10.000	41.354	41.39	1.000	1.001	0.22110		0.0598	0.221
8	8 2,3,7,8-TCDF			NO	0.787	10.000	25.117		1.001				0.0552	
9	9 1,2,3,7,8-PeCDF			NO	0.910	10.000	29.818		1.001				0.0418	
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.000	30.835		1.001				0.0411	
11	11 1,2,3,4,7,8-HxCDF	2.91e2	1.08	NO	0.878	10.000	33.621	33.64	1.000	1.001	0.056722		0.0146	0.0567
12	12 1,2,3,6,7,8-HxCDF	3.34e2	1.16	NO	0.874	10.000	33.759	33.76	1.000	1.000	0.056326		0.0134	0.0563
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.000	34.358		1.001				0.0430	
14	14 1,2,3,7,8,9-HxCDF	2.31e2	1.29	NO	0.864	10.000	35.219	35.22	1.000	1.000	0.055627		0.0230	0.0556
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.871	10.000	36.981		1.001				0.0488	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.000	38.957		1.000				0.0557	
17	17 OCDF			NO	0.802	10.000	41.545		1.000				0.0827	
18	18 13C-2,3,7,8-TCDD	1.49e6	0.77	NO	1.16	10.000	26.015	26.03	1.026	1.027	141.90	70.9	0.150	
19	19 13C-1,2,3,7,8-PeCDD	1.27e6	0.62	NO	0.847	10.000	31.105	31.11	1.227	1.227	165.93	83.0	0.181	
20	20 13C-1,2,3,4,7,8-HxCDD	8.66e5	1.28	NO	0.750	10.000	34.495	34.49	1.014	1.014	143.90	71.9	0.342	
21	21 13C-1,2,3,6,7,8-HxCDD	1.12e6	1.28	NO	0.963	10.000	34.607	34.59	1.017	1.017	145.34	72.7	0.266	
22	22 13C-1,2,3,7,8,9-HxCDD	9.84e5	1.23	NO	0.838	10.000	34.876	34.87	1.025	1.025	146.35	73.2	0.306	
23	23 13C-1,2,3,4,6,7,8-HpCDD	7.53e5	1.05	NO	0.641	10.000	38.366	38.37	1.128	1.128	146.24	73.1	0.306	
24	24 13C-OCDD	1.24e6	0.90	NO	0.586	10.000	41.359	41.35	1.216	1.216	263.17	65.8	0.330	
25	25 13C-2,3,7,8-TCDF	1.85e6	0.78	NO	1.03	10.000	25.075	25.09	0.989	0.990	137.78	68.9	0.233	
26	26 13C-1,2,3,7,8-PeCDF	1.79e6	1.60	NO	0.845	10.000	29.794	29.80	1.176	1.176	162.92	81.5	0.289	
27	27 13C-2,3,4,7,8-PeCDF	1.74e6	1.60	NO	0.814	10.000	30.785	30.80	1.215	1.215	164.32	82.2	0.300	
28	28 13C-1,2,3,4,7,8-HxCDF	1.17e6	0.51	NO	1.00	10.000	33.634	33.62	0.989	0.988	144.61	72.3	0.371	
29	29 13C-1,2,3,6,7,8-HxCDF	1.36e6	0.52	NO	1.14	10.000	33.756	33.75	0.992	0.992	148.58	74.3	0.328	
30	30 13C-2,3,4,6,7,8-HxCDF	1.19e6	0.51	NO	1.02	10.000	34.325	34.32	1.009	1.009	145.07	72.5	0.365	
31	31 13C-1,2,3,7,8,9-HxCDF	9.59e5	0.50	NO	0.845	10.000	35.216	35.22	1.035	1.035	141.44	70.7	0.442	

Dataset: U:\VG12.PRO\Results\200518R1\200518R1-6.qld

Last Altered: Monday, May 18, 2020 15:07:30 Pacific Daylight Time  
Printed: Monday, May 18, 2020 15:08:27 Pacific Daylight Time

Name: 200518R1\_6, Date: 18-May-2020, Time: 12:17:25, ID: B0E0066-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	9.00e5	0.42	NO	0.771	10.000	36.947	36.94	1.086	1.086	145.44	72.7	0.307	
33	33 13C-1,2,3,4,7,8,9-HpCDF	6.23e5	0.42	NO	0.482	10.000	38.957	38.96	1.145	1.145	161.04	80.5	0.491	
34	34 13C-OCDF	1.57e6	0.88	NO	0.669	10.000	41.529	41.54	1.221	1.221	292.97	73.2	0.295	
35	35 37Cl-2,3,7,8-TCDD	5.82e5			1.10	10.000	26.046	26.05	1.028	1.028	58.504	73.1	0.0367	
36	36 13C-1,2,3,4-TCDD	1.81e6	0.79	NO	1.00	10.000	25.350	25.35	1.000	1.000	200.00	100	0.174	
37	37 13C-1,2,3,4-TCDF	2.60e6	0.79	NO	1.00	10.000	23.560	23.59	1.000	1.000	200.00	100	0.241	
38	38 13C-1,2,3,4,6,9-HxCDF	1.61e6	0.51	NO	1.00	10.000	34.000	34.01	1.000	1.000	200.00	100	0.373	
39	39 Total Tetra-Dioxins				0.947	10.000	24.620		0.000				0.0322	
40	40 Total Penta-Dioxins				0.942	10.000	29.960		0.000				0.0234	
41	41 Total Hexa-Dioxins				0.915	10.000	33.635		0.000				0.0269	
42	42 Total Hepta-Dioxins				0.898	10.000	37.640		0.000				0.0461	
43	43 Total Tetra-Furans				0.787	10.000	23.610		0.000				0.0247	
44	44 1st Func. Penta-Furans				0.910	10.000	27.090		0.000		0.044752		0.00457	0.0448
45	45 Total Penta-Furans				0.910	10.000	29.275		0.000				0.0217	
46	46 Total Hexa-Furans				0.922	10.000	33.555		0.000		0.16867		0.0154	0.233
47	47 Total Hepta-Furans				0.871	10.000	37.835		0.000				0.0273	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200518R1\200518R1-6.qld

Last Altered: Monday, May 18, 2020 15:07:30 Pacific Daylight Time

Printed: Monday, May 18, 2020 15:08:27 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200518R1\_6, Date: 18-May-2020, Time: 12:17:25, ID: B0E0066-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	1st Func. Penta-Furans	27.17	3.362e3	2.361e3	2.127e2	1.469e2	1.45	NO	3.596e2	0.044752	0.044752	0.00457

Dataset: U:\VG12.PRO\Results\200518R1\200518R1-6.qld

Last Altered: Monday, May 18, 2020 15:07:30 Pacific Daylight Time

Printed: Monday, May 18, 2020 15:08:27 Pacific Daylight Time

5. ID: B0E066 Name: 200518R1\_6, Date: 18-May-2020, Time: 12:17:25, ID: B0E066-BLK1 Method Blank 10, Description: Method Blank

**Penta-Furans**

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

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.62	4.021e3	3.137e3	1.416e2	8.017e1	1.77	YES	0.000e0	0.00000	0.033363	0.0154
2	1,2,3,4,7,8-HxCDF	33.64	2.487e3	4.370e3	1.509e2	1.397e2	1.08	NO	2.905e2	0.056722	0.056722	0.0146
3	1,2,3,6,7,8-HxCDF	33.76	3.513e3	2.873e3	1.795e2	1.542e2	1.16	NO	3.337e2	0.056326	0.056326	0.0134
4	1,2,3,7,8,9-HxCDF	35.22	2.881e3	2.712e3	1.299e2	1.006e2	1.29	NO	2.305e2	0.055627	0.055627	0.0230
5	Total Hexa-Furans	35.24	2.823e3	2.159e3	1.111e2	7.549e1	1.47	YES	0.000e0	0.00000	0.031417	0.0154

**Hepta-Furans**

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

Dataset: Untitled

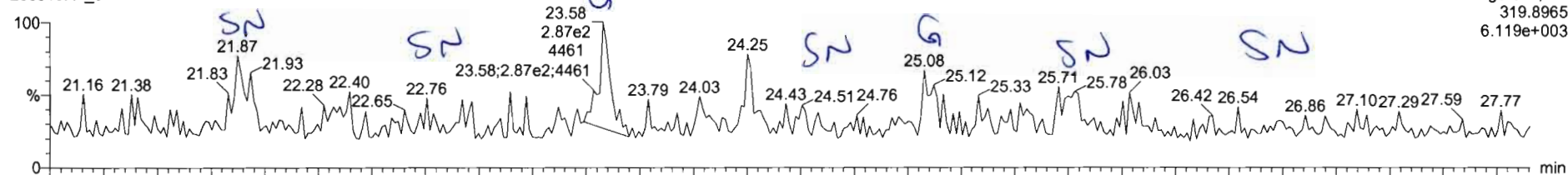
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Printed: Monday, May 18, 2020 14:03:05 Pacific Daylight Time

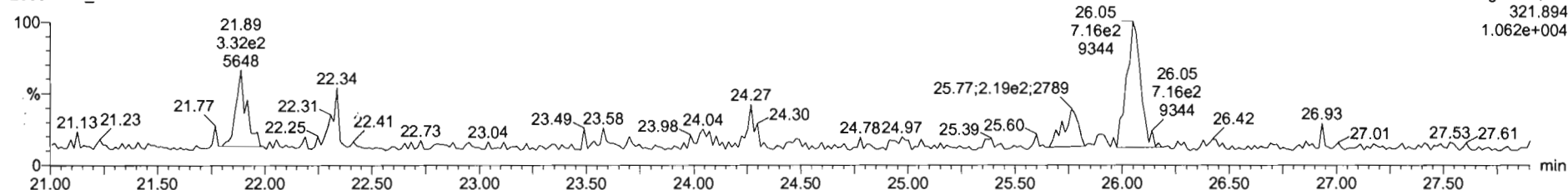
Name: 200518R1\_6, Date: 18-May-2020, Time: 12:17:25, ID: B0E0066-BLK1 Method Blank 10, Description: Method Blank

2,3,7,8-TCDD

200518R1\_6

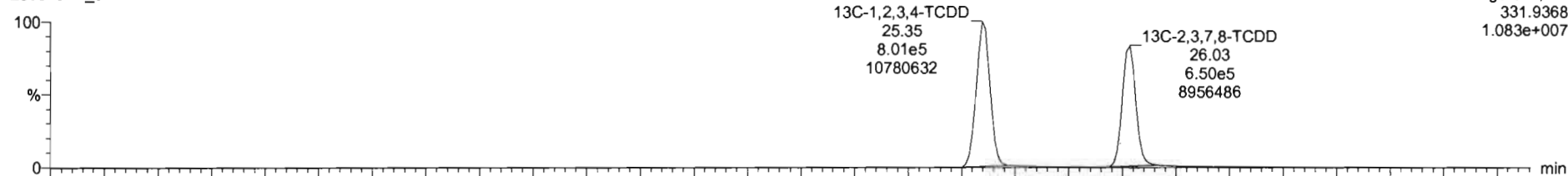


200518R1\_6

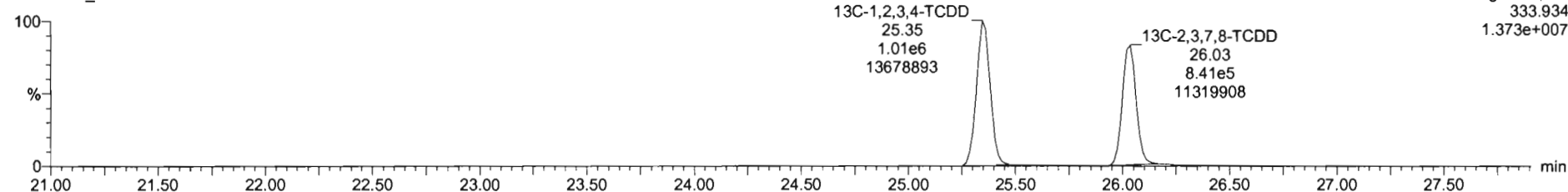


13C-2,3,7,8-TCDD

200518R1\_6



200518R1\_6



Dataset: Untitled

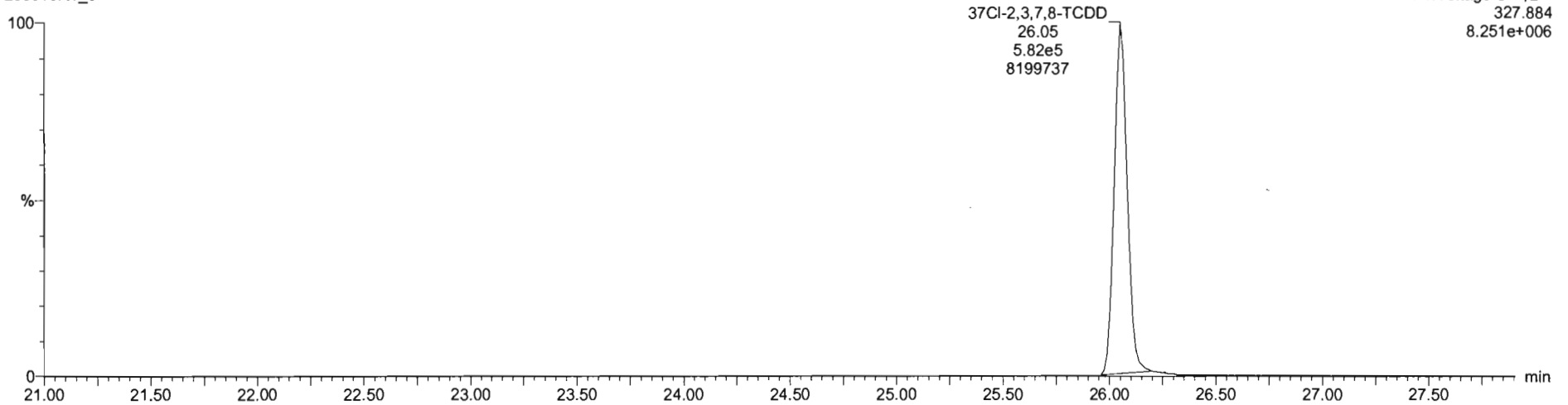
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Printed: Monday, May 18, 2020 14:03:05 Pacific Daylight Time

Name: 200518R1\_6, Date: 18-May-2020, Time: 12:17:25, ID: B0E0066-BLK1 Method Blank 10, Description: Method Blank

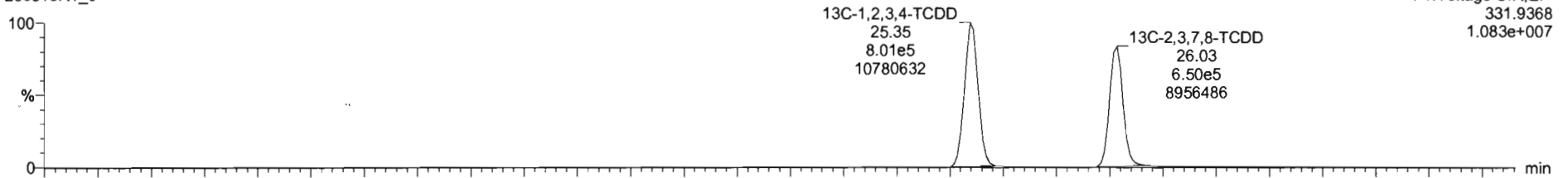
**37Cl-2,3,7,8-TCDD**

200518R1\_6

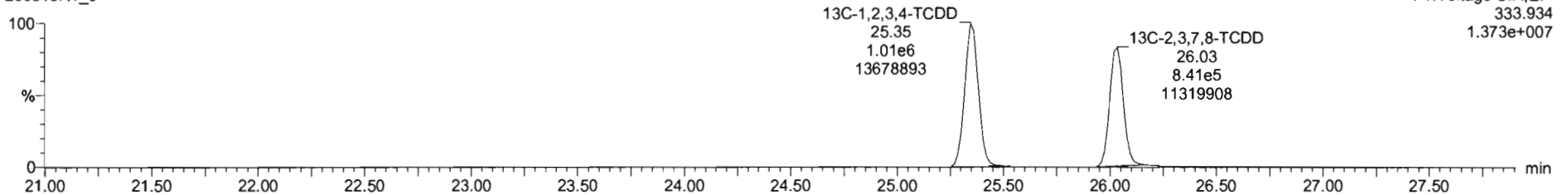


**13C-1,2,3,4-TCDD**

200518R1\_6



200518R1\_6





Dataset: Untitled

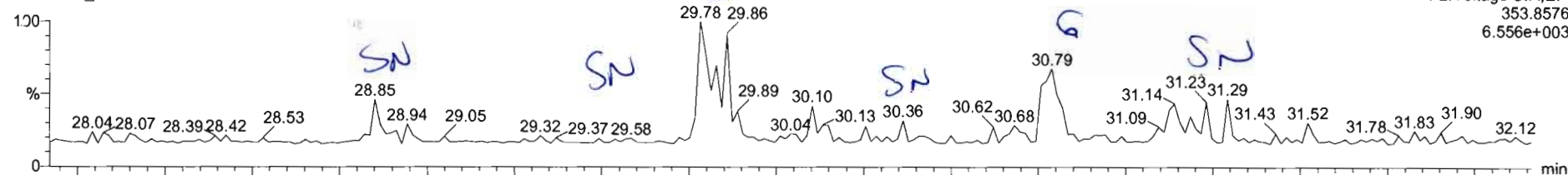
Last Altered: Monday, May 18, 2020 14:02:47 Pacific Daylight Time

Printed: Monday, May 18, 2020 14:03:05 Pacific Daylight Time

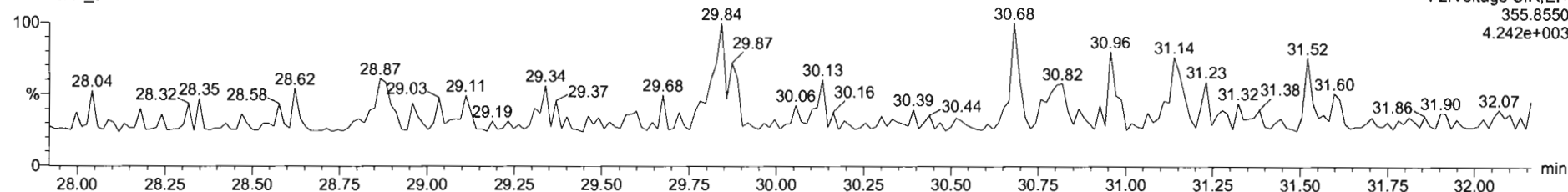
Name: 200518R1\_6, Date: 18-May-2020, Time: 12:17:25, ID: B0E0066-BLK1 Method Blank 10, Description: Method Blank

**1,2,3,7,8-PeCDD**

200518R1\_6

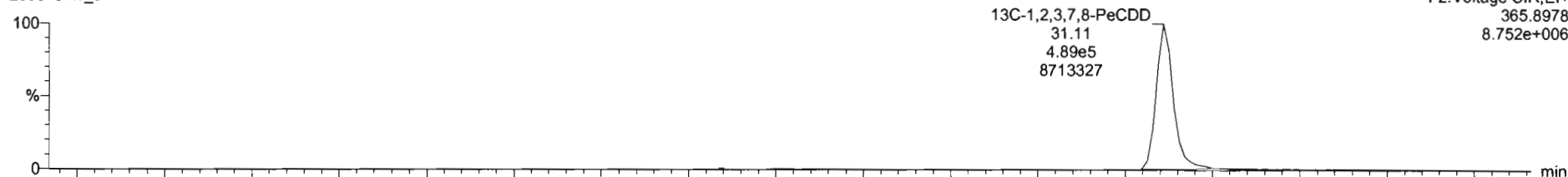


200518R1\_6

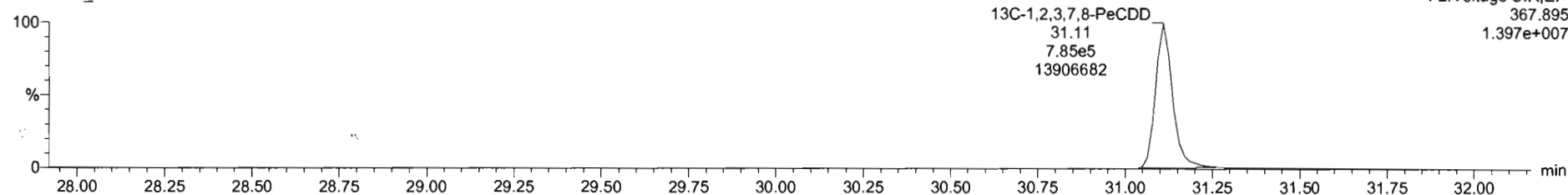


**13C-1,2,3,7,8-PeCDD**

200518R1\_6



200518R1\_6



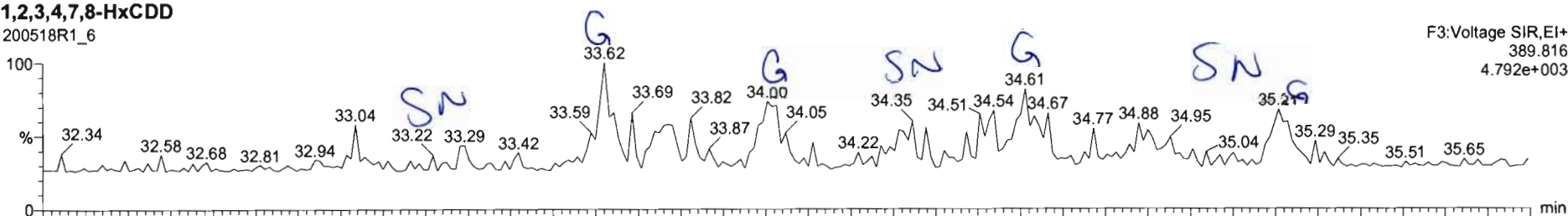
Dataset: Untitled

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Printed: Monday, May 18, 2020 14:03:05 Pacific Daylight Time

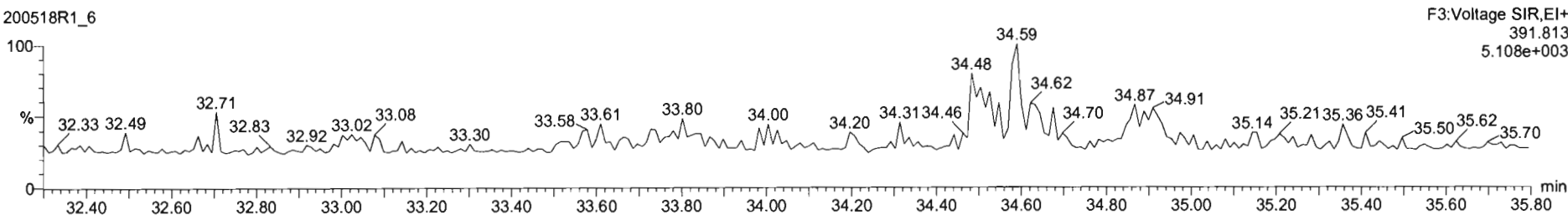
Name: 200518R1\_6, Date: 18-May-2020, Time: 12:17:25, ID: B0E0066-BLK1 Method Blank 10, Description: Method Blank

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

200518R1\_6

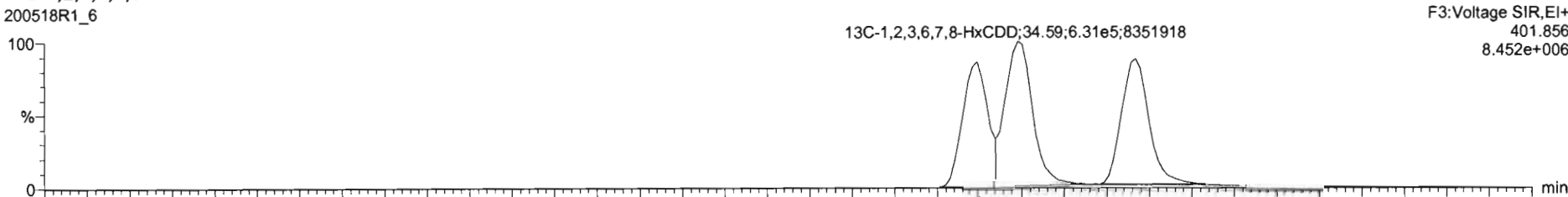


200518R1\_6

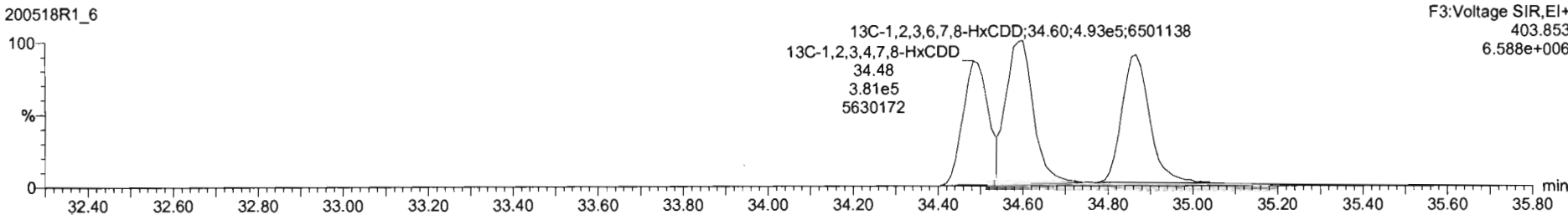


13C-1,2,3,4,7,8-HxCDD

200518R1\_6



200518R1\_6



Dataset: Untitled

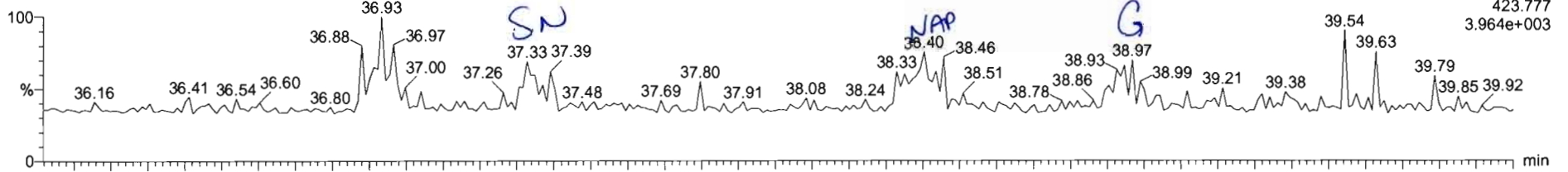
Last Altered: Monday, May 18, 2020 14:02:47 Pacific Daylight Time

Printed: Monday, May 18, 2020 14:03:05 Pacific Daylight Time

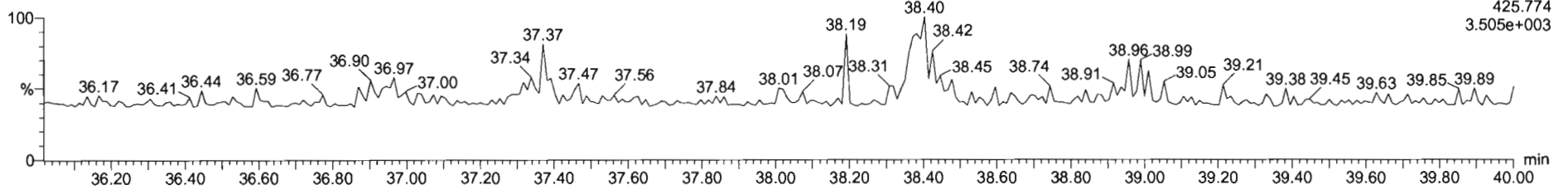
Name: 200518R1\_6, Date: 18-May-2020, Time: 12:17:25, ID: B0E0066-BLK1 Method Blank 10, Description: Method Blank

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

200518R1\_6

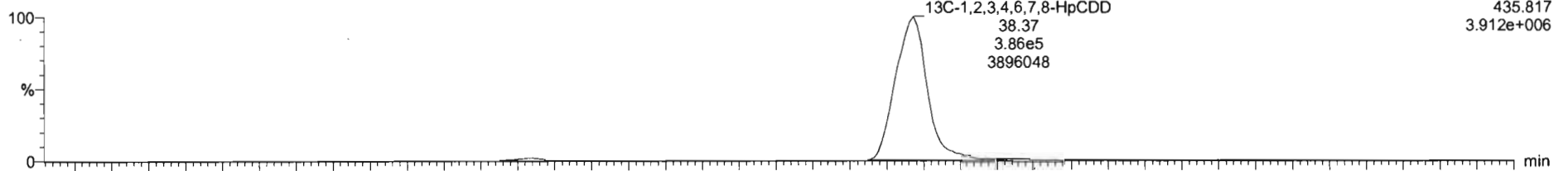


200518R1\_6

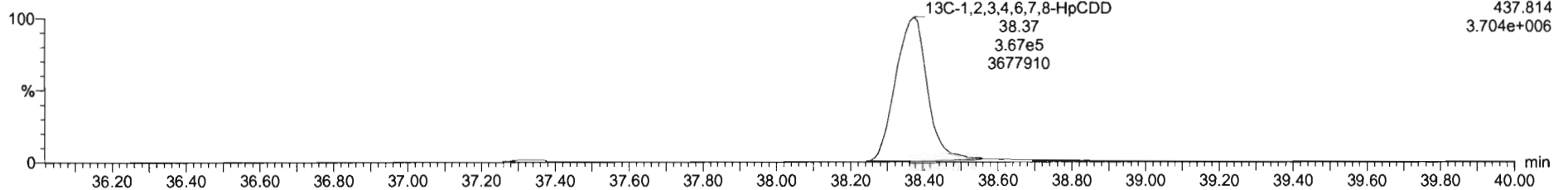


13C-1,2,3,4,6,7,8-HpCDD

200518R1\_6



200518R1\_6

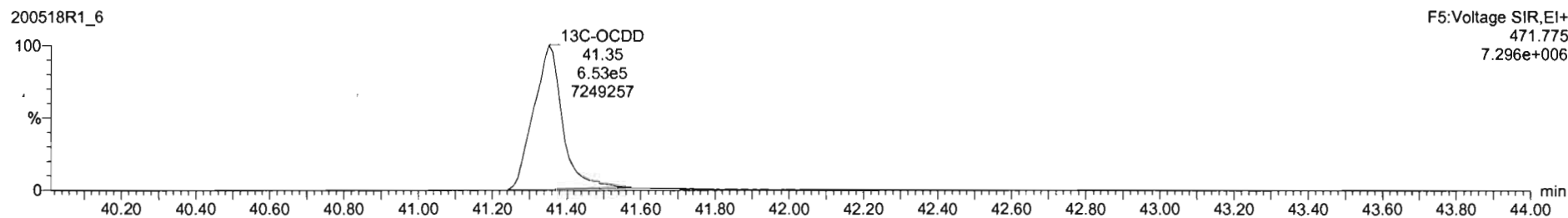
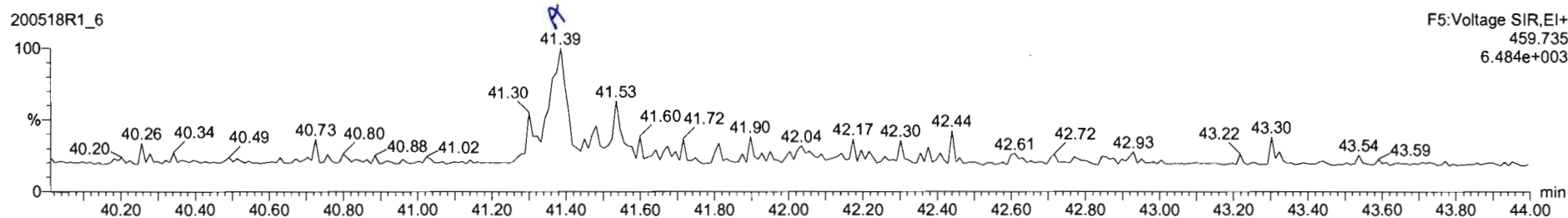
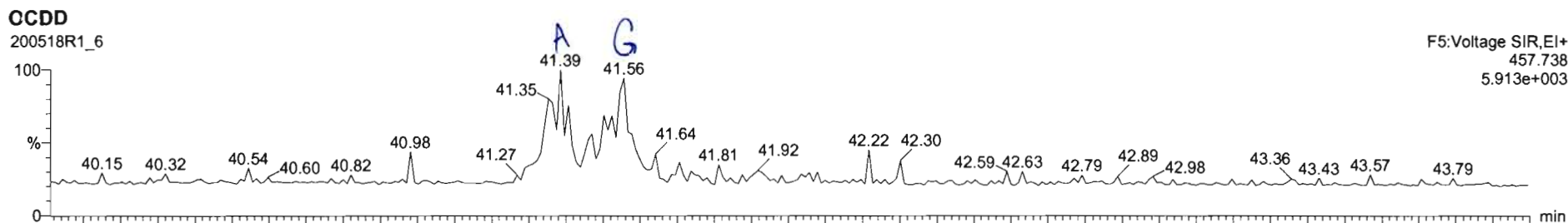


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Last Altered: Monday, May 18, 2020 14:02:47 Pacific Daylight Time

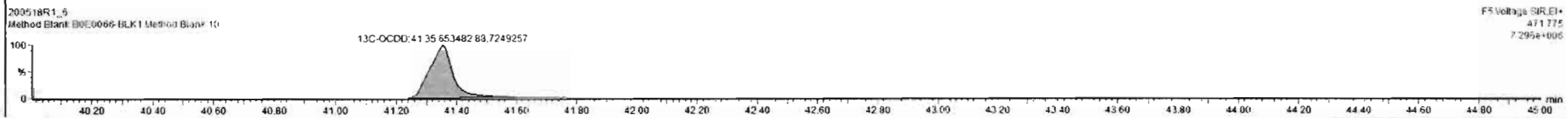
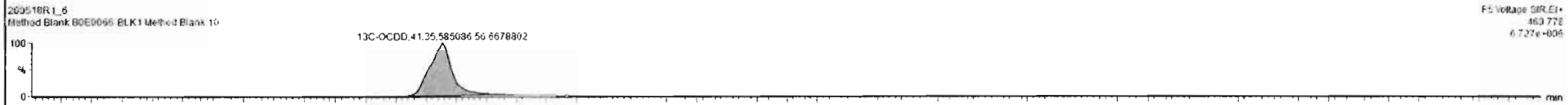
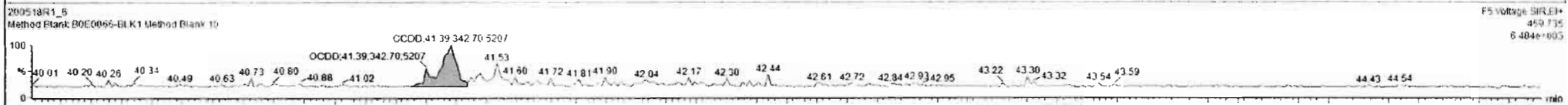
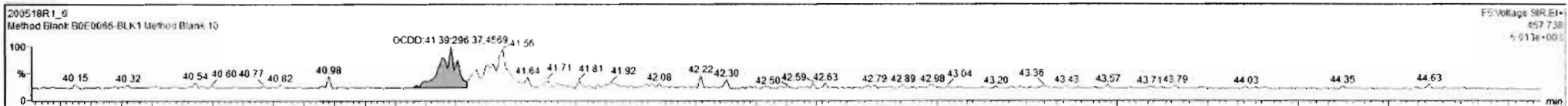
Printed: Monday, May 18, 2020 14:03:05 Pacific Daylight Time

Name: 200518R1\_6, Date: 18-May-2020, Time: 12:17:25, ID: B0E0066-BLK1 Method Blank 10, Description: Method Blank



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
6	1,2,3,4,6,7,8-HcCDD	NO	NO	0.8975	10.000	41.33	1.001	0.221		0.0797	
7	OCDD	6.39e2	0.56	NO	0.9335	10.000	41.33	1.001	0.221	0.0568	0.221

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

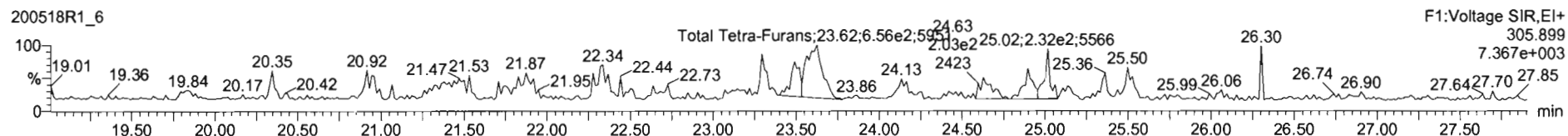
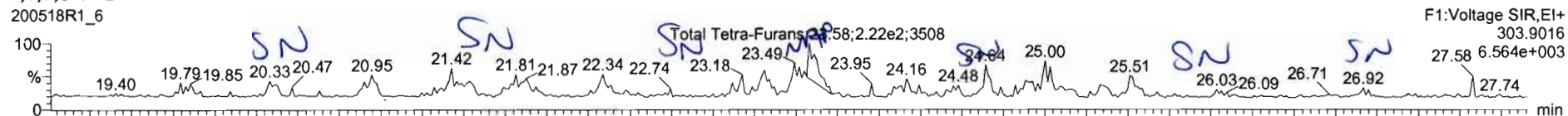


Dataset: Untitled

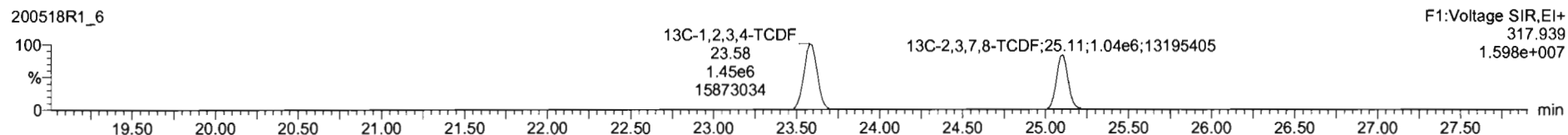
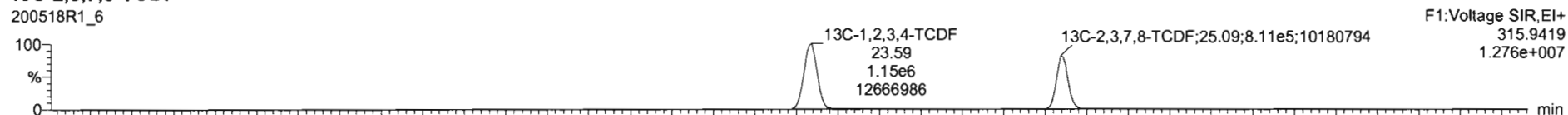
Last Altered: Monday, May 18, 2020 14:02:47 Pacific Daylight Time  
Printed: Monday, May 18, 2020 14:03:05 Pacific Daylight Time

Name: 200518R1\_6, Date: 18-May-2020, Time: 12:17:25, ID: B0E0066-BLK1 Method Blank 10, Description: Method Blank

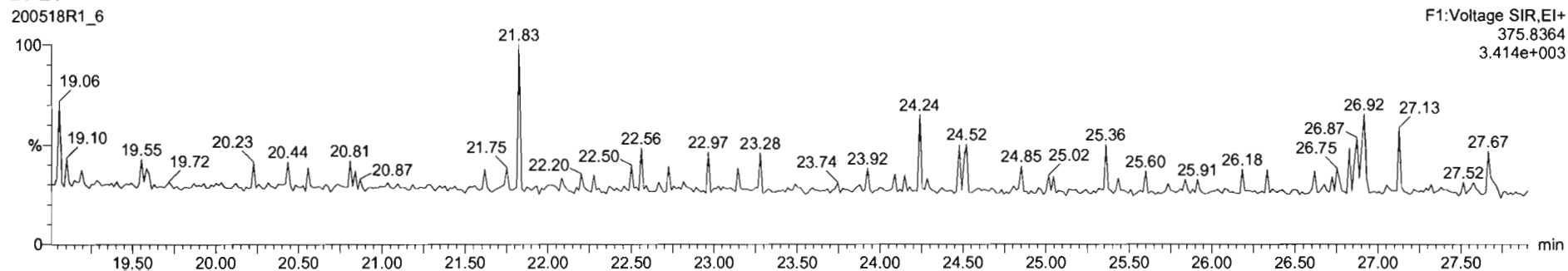
### 2,3,7,8-TCDF



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



### DPE1



Dataset: Untitled

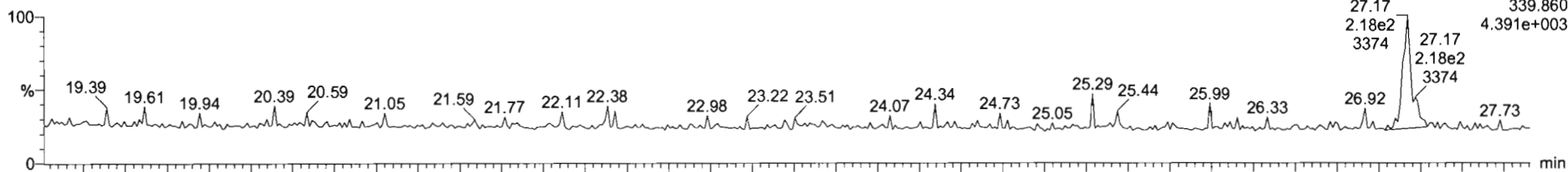
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Printed: Monday, May 18, 2020 14:03:05 Pacific Daylight Time

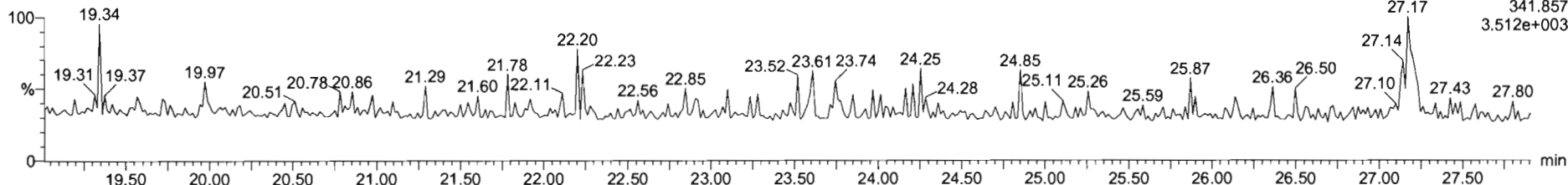
Name: 200518R1\_6, Date: 18-May-2020, Time: 12:17:25, ID: B0E0066-BLK1 Method Blank 10, Description: Method Blank

1st Func. Penta-Furans

200518R1\_6

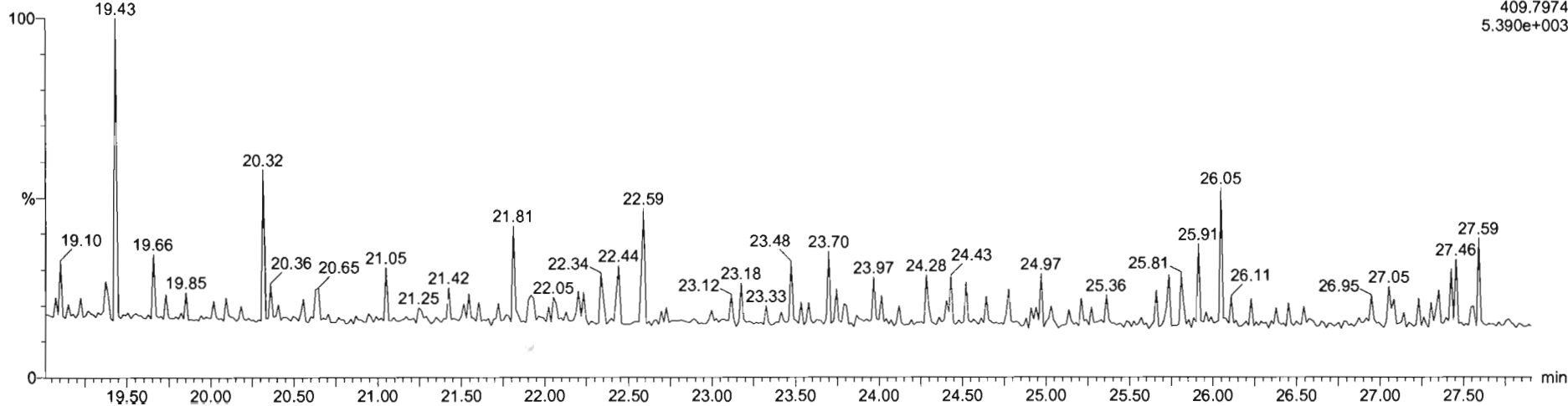


200518R1\_6



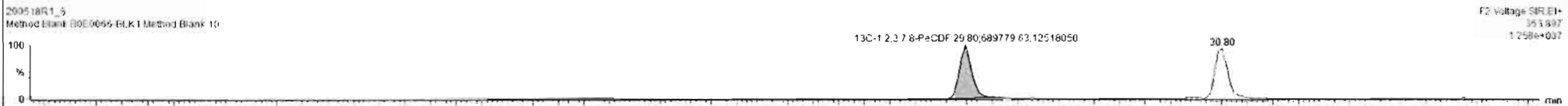
DPE6

200518R1\_6



Name	Resp	RA	n/y	RRF	wVvol	RT	RRT	Conc.	%Rec	DL	EMPC
42 Total Hepta-Dioxins				0.8976	10.000					0.0461	
43 Total Tetra-Furans				0.7271	10.000					0.0247	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1st Func. Penta-Furans	27.17	2.127e2	1.469e2	1.45	NO	0.044752	0.044752





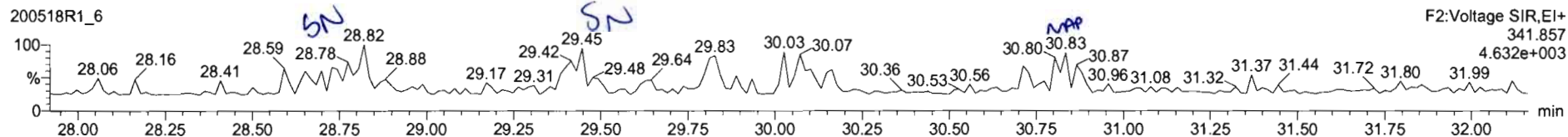
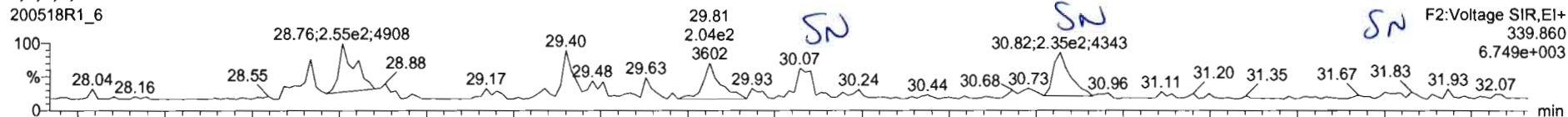
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Last Altered: Monday, May 18, 2020 14:02:47 Pacific Daylight Time

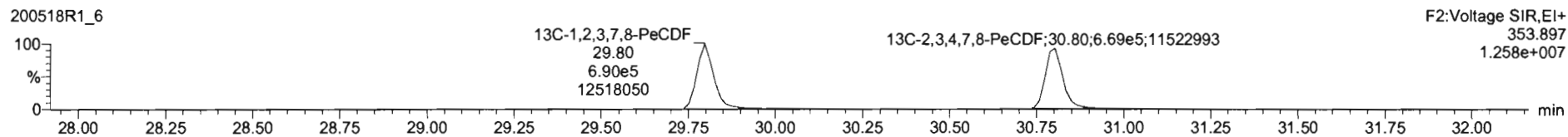
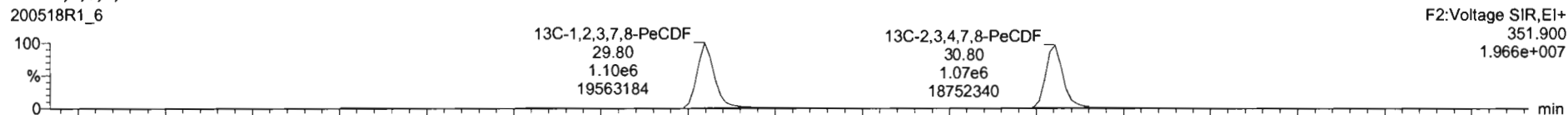
Printed: Monday, May 18, 2020 14:03:05 Pacific Daylight Time

Name: 200518R1\_6, Date: 18-May-2020, Time: 12:17:25, ID: B0E0066-BLK1 Method Blank 10, Description: Method Blank

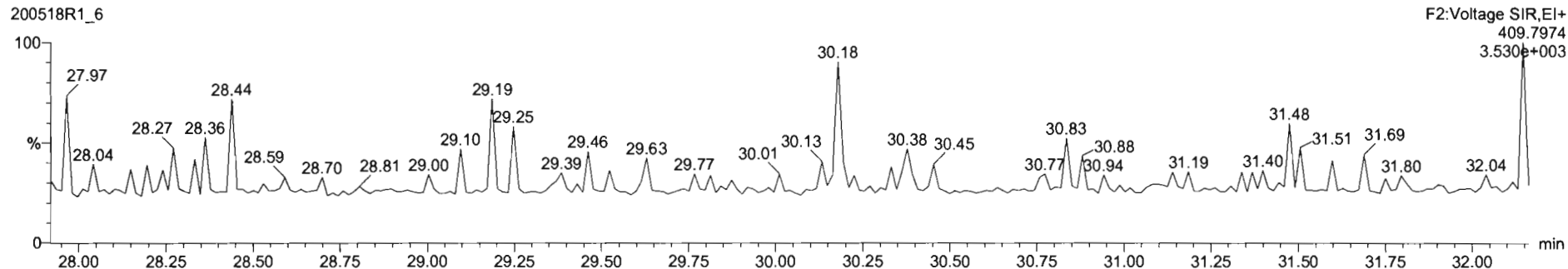
**1,2,3,7,8-PeCDF**



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



**DPE2**

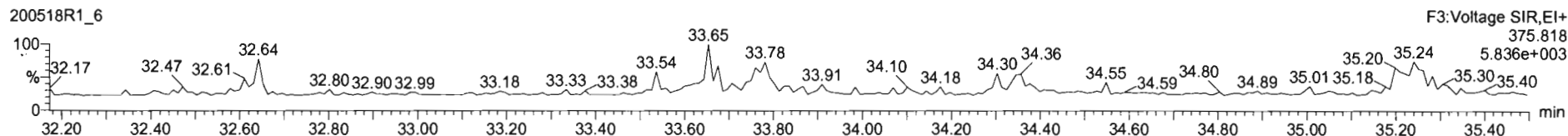
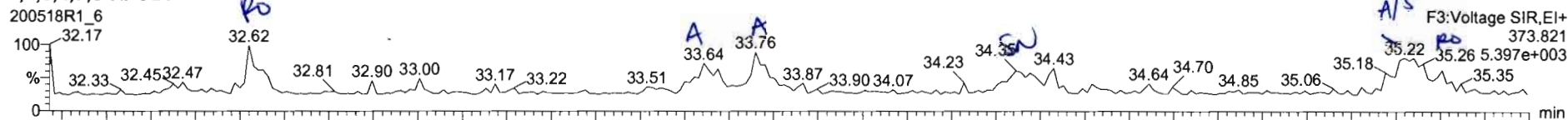


Dataset: Untitled

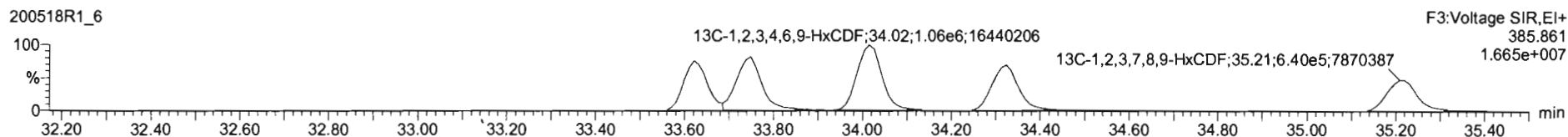
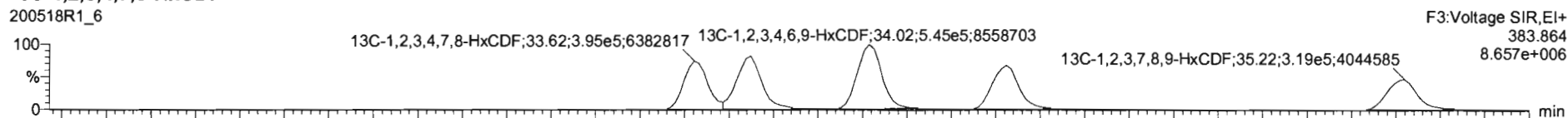
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Printed: Monday, May 18, 2020 14:03:05 Pacific Daylight Time

Name: 200518R1\_6, Date: 18-May-2020, Time: 12:17:25, ID: B0E0066-BLK1 Method Blank 10, Description: Method Blank

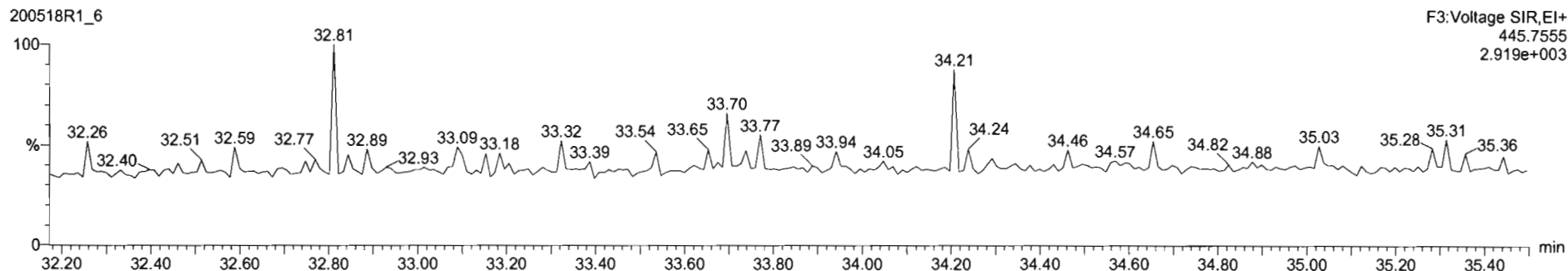
**1,2,3,4,7,8-HxCDF**



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

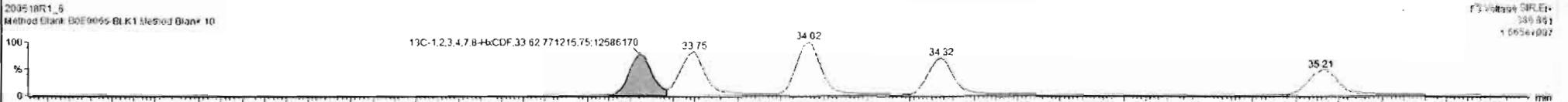
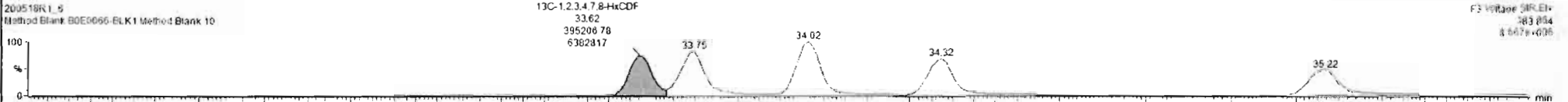
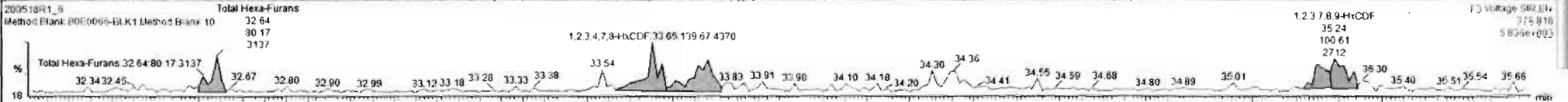
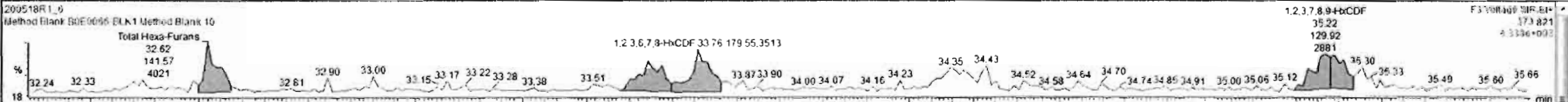


**DPE3**



Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.000					0.0217	
46 Total Hexa-Furans				0.0217	10.000			0.169		0.0154	0.233

Name	RT	n1 Resp	n2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.62	1.416e2	8.017e1	1.77	YES	0.033363	0.00000
2 1,2,3,4,7,8-HxCDF	33.64	1.506e2	1.397e2	1.08	NO	0.066722	0.056722
3 1,2,3,6,7,8-HxCDF	33.76	1.795e2	1.542e2	1.16	NO	0.066326	0.056326
4 1,2,3,7,8,9-HxCDF	35.22	1.259e2	1.006e2	1.29	NO	0.055627	0.055627
5 Total Hexa-Furans	35.34	1.111e2	7.549e1	1.47	YES	0.031417	0.00000

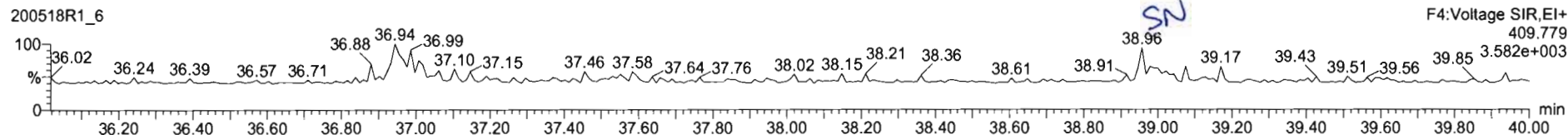
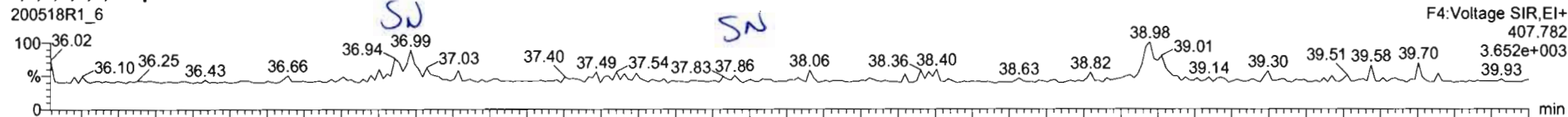


Dataset: Untitled

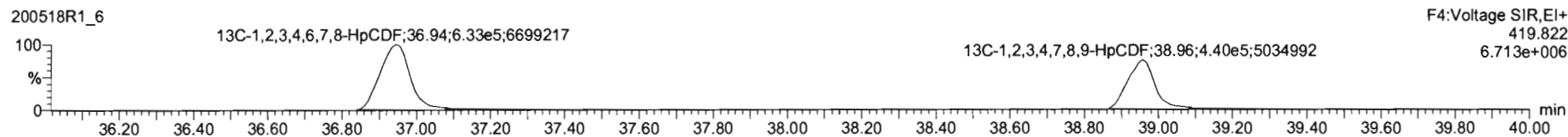
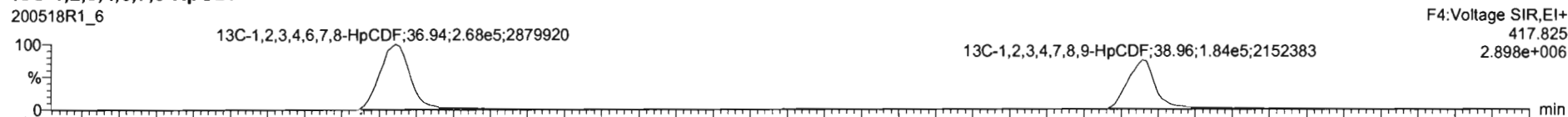
Last Altered: Monday, May 18, 2020 14:02:47 Pacific Daylight Time  
Printed: Monday, May 18, 2020 14:03:05 Pacific Daylight Time

Name: 200518R1\_6, Date: 18-May-2020, Time: 12:17:25, ID: B0E0066-BLK1 Method Blank 10, Description: Method Blank

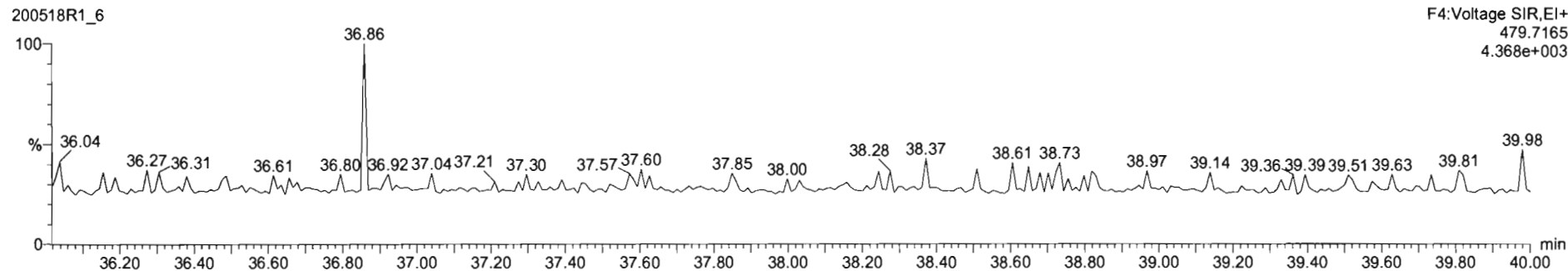
**1,2,3,4,6,7,8-HpCDF**



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



**DPE4**



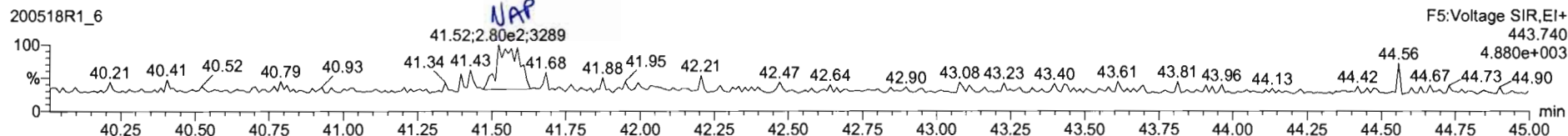
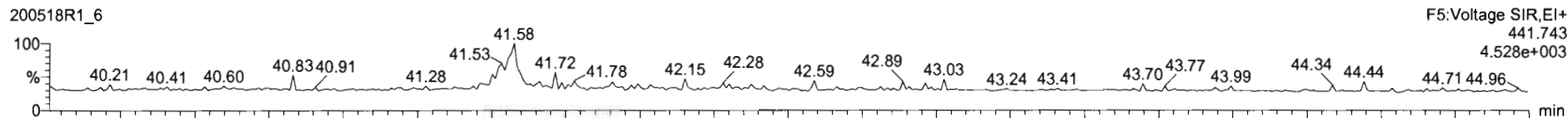
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Last Altered: Monday, May 18, 2020 14:02:47 Pacific Daylight Time

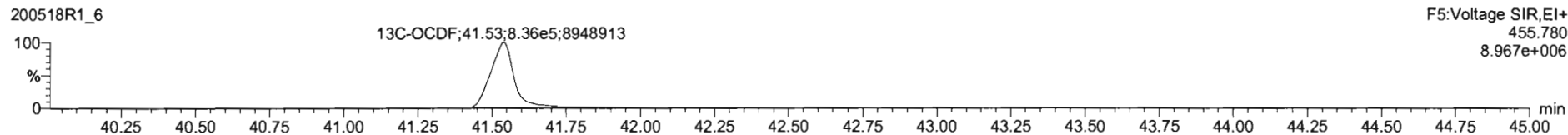
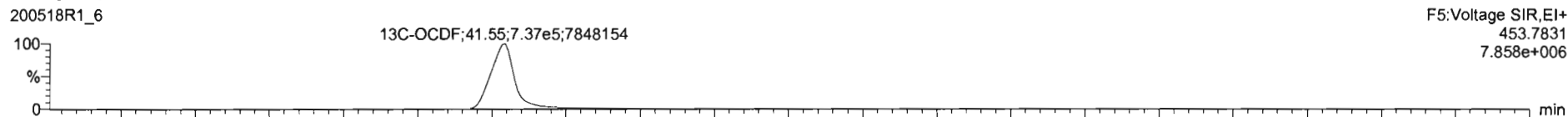
Printed: Monday, May 18, 2020 14:03:05 Pacific Daylight Time

Name: 200518R1\_6, Date: 18-May-2020, Time: 12:17:25, ID: B0E0066-BLK1 Method Blank 10, Description: Method Blank

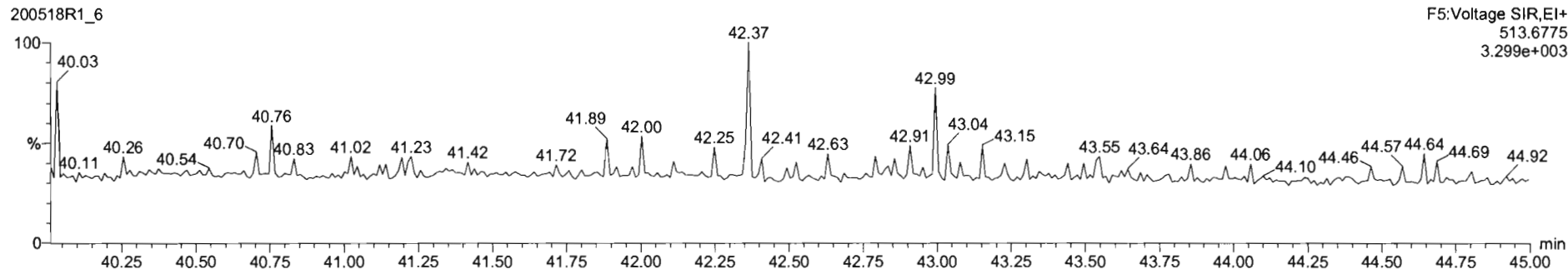
OCDF



13C-OCDF



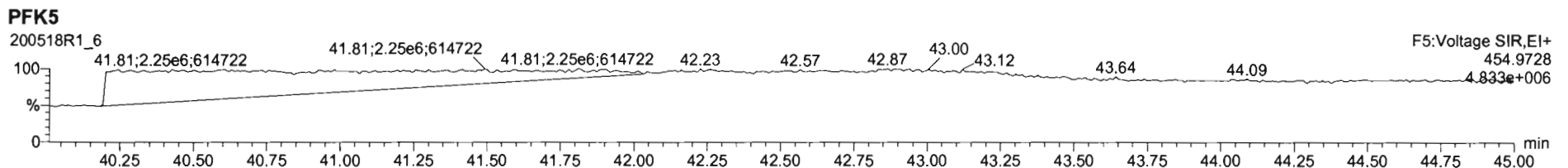
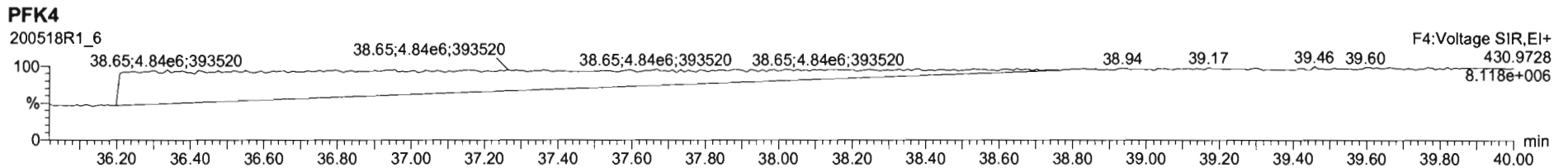
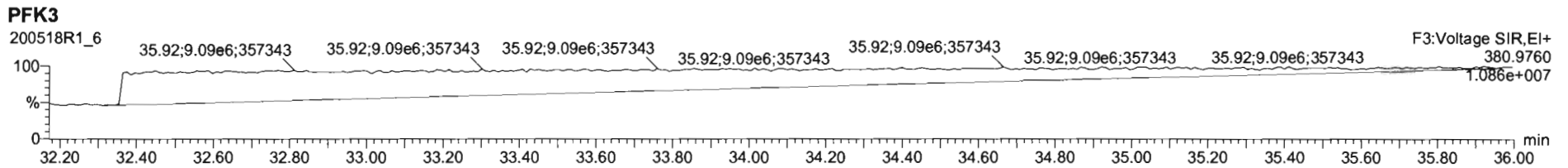
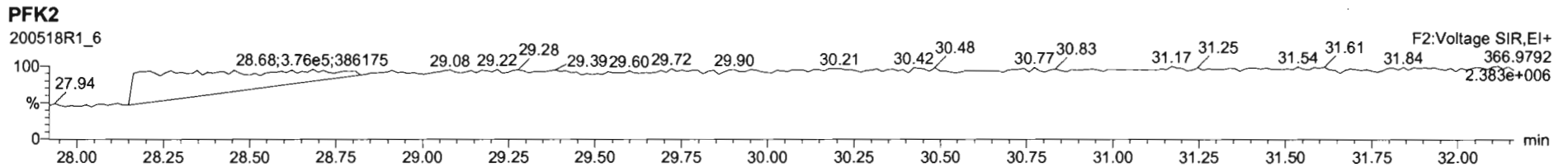
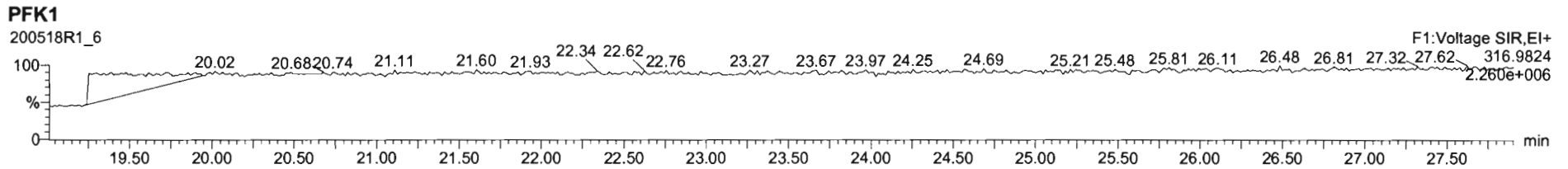
DPE5



Dataset: Untitled

Last Altered: Monday, May 18, 2020 14:02:47 Pacific Daylight Time  
Printed: Monday, May 18, 2020 14:03:05 Pacific Daylight Time

Name: 200518R1\_6, Date: 18-May-2020, Time: 12:17:25, ID: B0E0066-BLK1 Method Blank 10, Description: Method Blank



Dataset: U:\VG12.PRO\Results\200518R1\200518R1-3.qld

Last Altered: Monday, May 18, 2020 14:57:01 Pacific Daylight Time

Printed: Monday, May 18, 2020 14:57:15 Pacific Daylight Time

*Geo 05/18/2020*

*C105/21/2020*

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\cb5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200518R1\_3, Date: 18-May-2020, Time: 09:56:30, ID: B0E0066-BS1 OPR 10, Description: OPR

	# Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	8.53e4	0.71	NO	0.947	10.000	26.066	26.07	1.001	1.001	16.945		0.0959	16.9
2	2 1,2,3,7,8-PeCDD	3.84e5	0.61	NO	0.942	10.000	31.147	31.14	1.001	1.000	88.804		0.186	88.8
3	3 1,2,3,4,7,8-HxCDD	3.22e5	1.26	NO	1.06	10.000	34.516	34.52	1.000	1.000	98.396		0.198	98.4
4	4 1,2,3,6,7,8-HxCDD	3.63e5	1.27	NO	0.915	10.000	34.601	34.61	1.000	1.000	93.676		0.189	93.7
5	5 1,2,3,7,8,9-HxCDD	3.06e5	1.25	NO	0.915	10.000	34.888	34.89	1.000	1.000	92.268		0.229	92.3
6	6 1,2,3,4,6,7,8-HpCDD	2.34e5	1.03	NO	0.898	10.000	38.394	38.39	1.000	1.000	96.558		0.354	96.6
7	7 OCDD	4.11e5	0.88	NO	0.933	10.000	41.354	41.37	1.000	1.000	193.13		0.601	193
8	8 2,3,7,8-TCDF	9.55e4	0.76	NO	0.787	10.000	25.132	25.12	1.001	1.001	18.624		0.0927	18.6
9	9 1,2,3,7,8-PeCDF	5.54e5	1.56	NO	0.910	10.000	29.834	29.83	1.001	1.001	94.763		0.237	94.8
10	10 2,3,4,7,8-PeCDF	5.66e5	1.55	NO	0.966	10.000	30.850	30.83	1.001	1.001	93.432		0.214	93.4
11	11 1,2,3,4,7,8-HxCDF	3.89e5	1.22	NO	0.878	10.000	33.643	33.65	1.000	1.000	105.74		0.263	106
12	12 1,2,3,6,7,8-HxCDF	4.70e5	1.22	NO	0.874	10.000	33.770	33.77	1.000	1.000	108.85		0.242	109
13	13 2,3,4,6,7,8-HxCDF	4.34e5	1.21	NO	0.922	10.000	34.369	34.35	1.001	1.000	106.53		0.256	107
14	14 1,2,3,7,8,9-HxCDF	3.14e5	1.22	NO	0.864	10.000	35.230	35.24	1.000	1.000	100.67		0.403	101
15	15 1,2,3,4,6,7,8-HpCDF	2.96e5	1.01	NO	0.871	10.000	36.992	36.97	1.001	1.000	105.88		0.340	106
16	16 1,2,3,4,7,8,9-HpCDF	2.26e5	1.01	NO	1.01	10.000	38.958	38.98	1.000	1.001	101.41		0.403	101
17	17 OCDF	4.56e5	0.83	NO	0.802	10.000	41.546	41.56	1.000	1.000	209.42		0.366	209
18	18 13C-2,3,7,8-TCDD	1.06e6	0.81	NO	1.16	10.000	26.031	26.03	1.026	1.027	116.87	58.4	0.176	
19	19 13C-1,2,3,7,8-PeCDD	9.17e5	0.63	NO	0.847	10.000	31.123	31.13	1.227	1.227	138.05	69.0	0.251	
20	20 13C-1,2,3,4,7,8-HxCDD	6.15e5	1.30	NO	0.750	10.000	34.506	34.51	1.014	1.014	119.47	59.7	0.346	
21	21 13C-1,2,3,6,7,8-HxCDD	8.47e5	1.30	NO	0.963	10.000	34.618	34.60	1.017	1.017	128.25	64.1	0.270	
22	22 13C-1,2,3,7,8,9-HxCDD	7.25e5	1.26	NO	0.838	10.000	34.887	34.88	1.025	1.025	126.18	63.1	0.310	
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.39e5	1.03	NO	0.641	10.000	38.378	38.38	1.128	1.128	122.49	61.2	0.306	
24	24 13C-OCDD	9.12e5	0.91	NO	0.586	10.000	41.372	41.35	1.216	1.215	226.70	56.7	0.360	
25	25 13C-2,3,7,8-TCDF	1.30e6	0.79	NO	1.03	10.000	25.090	25.11	0.989	0.990	111.42	55.7	0.266	
26	26 13C-1,2,3,7,8-PeCDF	1.28e6	1.58	NO	0.845	10.000	29.812	29.81	1.176	1.176	134.35	67.2	0.441	
27	27 13C-2,3,4,7,8-PeCDF	1.25e6	1.56	NO	0.814	10.000	30.803	30.82	1.215	1.215	136.22	68.1	0.458	
28	28 13C-1,2,3,4,7,8-HxCDF	8.38e5	0.51	NO	1.00	10.000	33.645	33.64	0.989	0.989	121.57	60.8	0.387	
29	29 13C-1,2,3,6,7,8-HxCDF	9.89e5	0.51	NO	1.14	10.000	33.767	33.76	0.992	0.992	126.75	63.4	0.342	
30	30 13C-2,3,4,6,7,8-HxCDF	8.84e5	0.51	NO	1.02	10.000	34.336	34.33	1.009	1.009	125.97	63.0	0.380	
31	31 13C-1,2,3,7,8,9-HxCDF	7.21e5	0.50	NO	0.845	10.000	35.227	35.23	1.035	1.035	124.43	62.2	0.460	

Dataset: U:\VG12.PRO\Results\200518R1\200518R1-3.qld

Last Altered: Monday, May 18, 2020 14:57:01 Pacific Daylight Time

Printed: Monday, May 18, 2020 14:57:15 Pacific Daylight Time

Name: 200518R1\_3, Date: 18-May-2020, Time: 09:56:30, ID: B0E0066-BS1 OPR 10, Description: OPR

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	6.41e5	0.43	NO	0.771	10.000	36.959	36.96	1.086	1.086	121.10	60.5	0.347	
33	13C-1,2,3,4,7,8,9-HpCDF	4.41e5	0.42	NO	0.482	10.000	38.970	38.96	1.145	1.145	133.33	66.7	0.556	
34	13C-OCDF	1.09e6	0.85	NO	0.669	10.000	41.542	41.55	1.221	1.221	236.72	59.2	0.314	
35	37Cl-2,3,7,8-TCDD	4.03e5			1.10	10.000	26.061	26.07	1.028	1.028	46.841	58.6	0.0412	
36	13C-1,2,3,4-TCDD	1.57e6	0.81	NO	1.00	10.000	25.350	25.36	1.000	1.000	200.00	100	0.205	
37	13C-1,2,3,4-TCDF	2.26e6	0.79	NO	1.00	10.000	23.560	23.58	1.000	1.000	200.00	100	0.275	
38	13C-1,2,3,4,6,9-HxCDF	1.37e6	0.52	NO	1.00	10.000	34.000	34.03	1.000	1.000	200.00	100	0.389	



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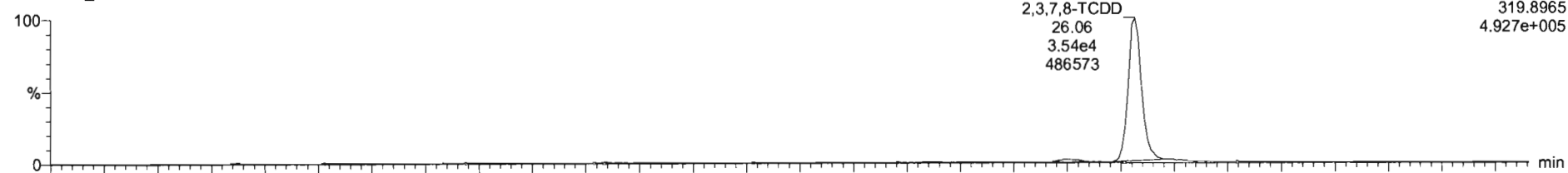
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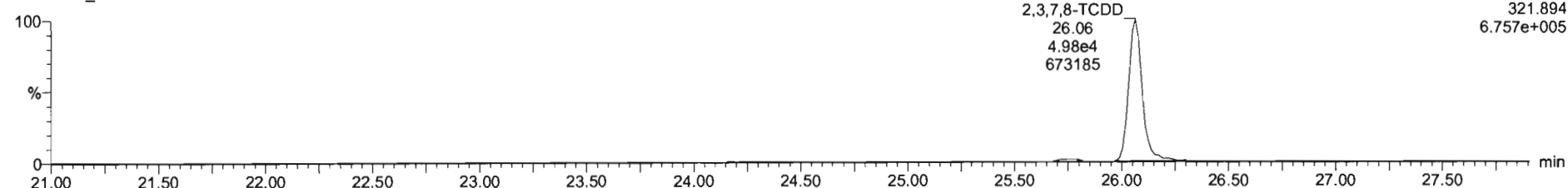
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**2,3,7,8-TCDD**

200518R1\_3

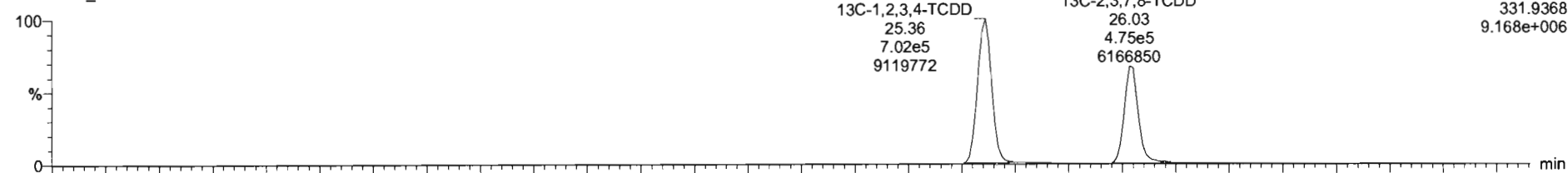


200518R1\_3

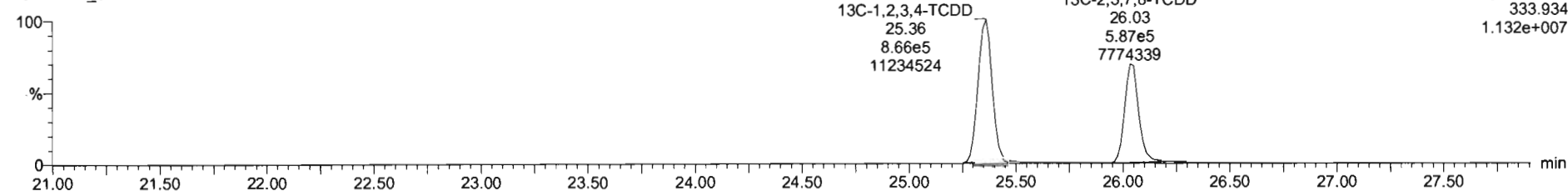


**13C-2,3,7,8-TCDD**

200518R1\_3



200518R1\_3



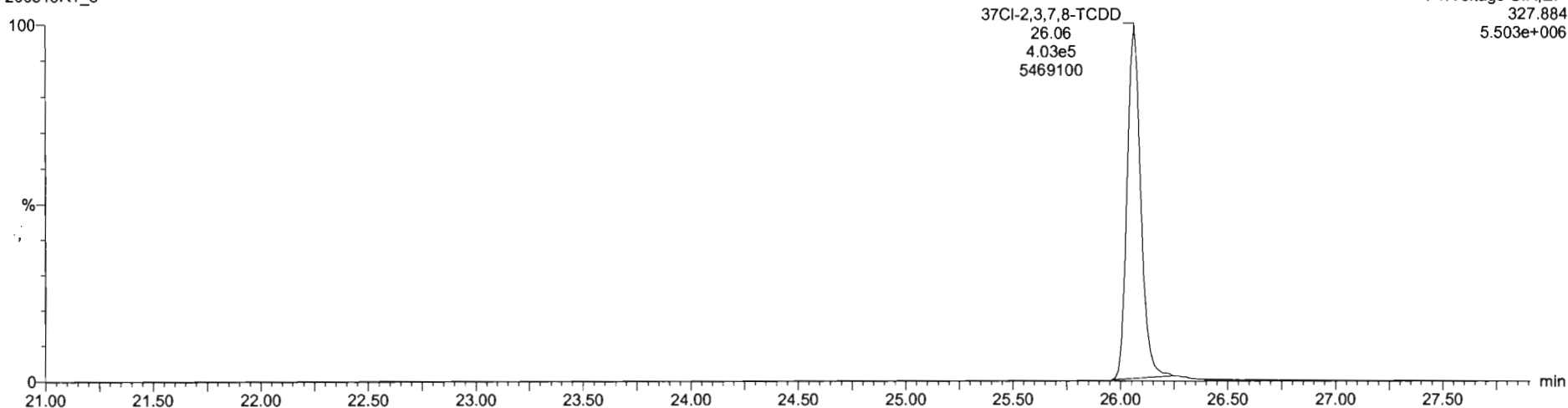
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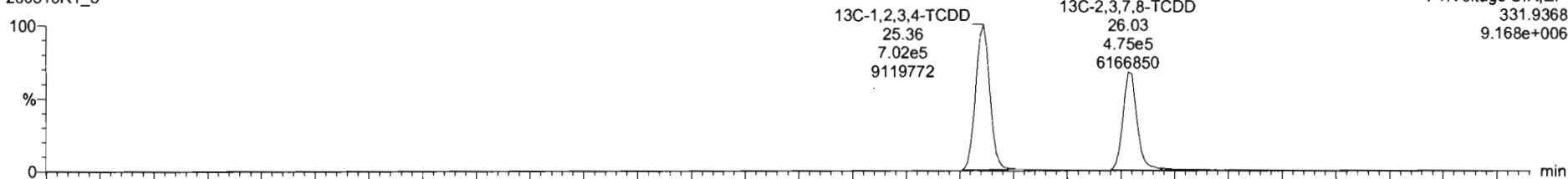
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200518R1\_3

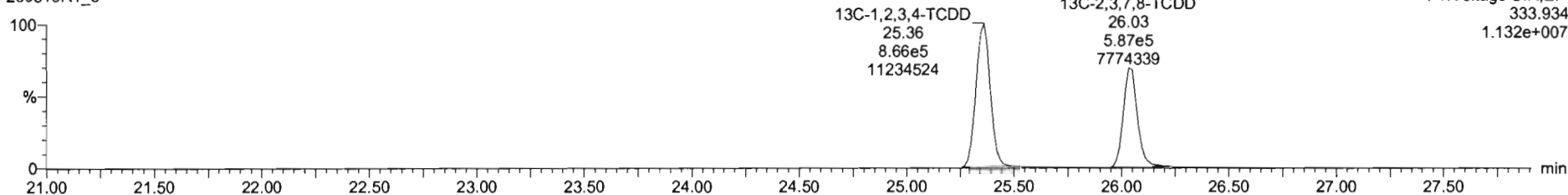


**13C-1,2,3,4-TCDD**

200518R1\_3



200518R1\_3



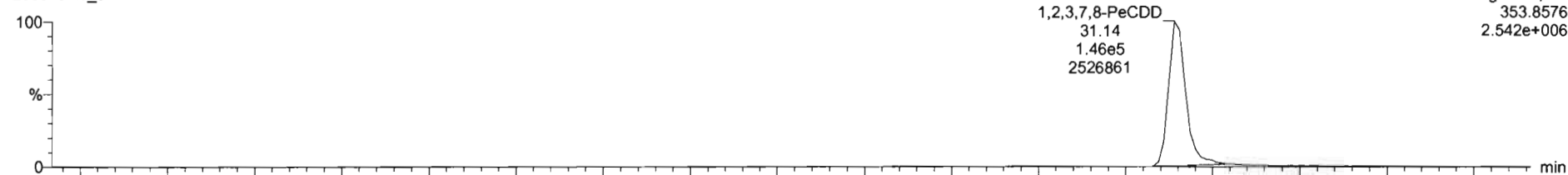
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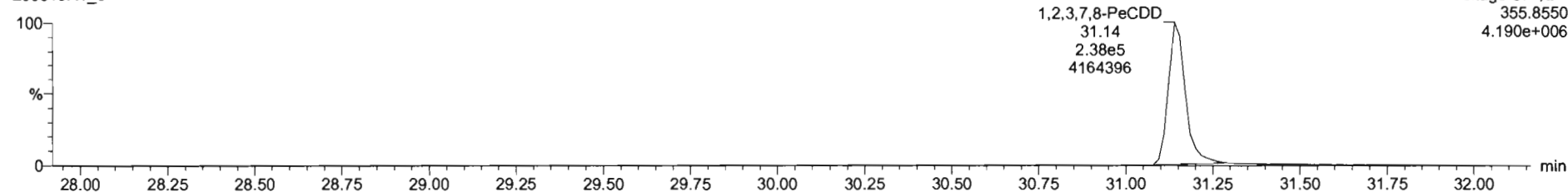
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**1,2,3,7,8-PeCDD**

200518R1\_3

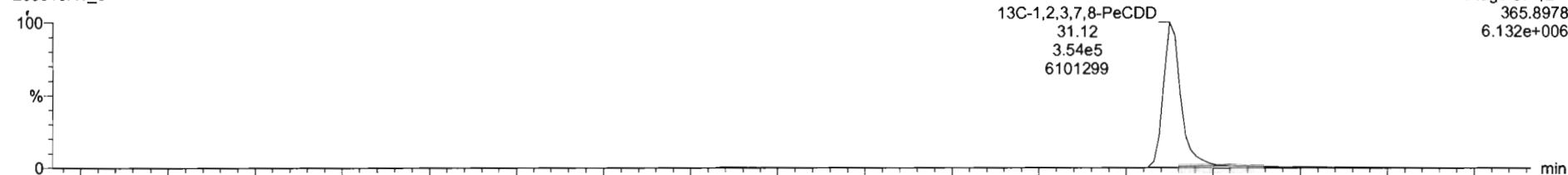


200518R1\_3

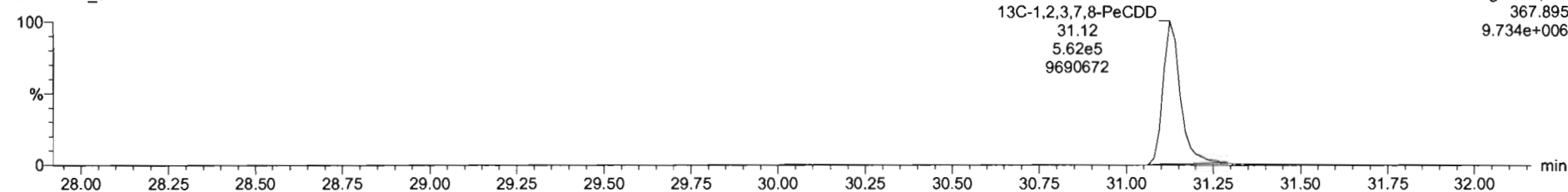


**13C-1,2,3,7,8-PeCDD**

200518R1\_3



200518R1\_3



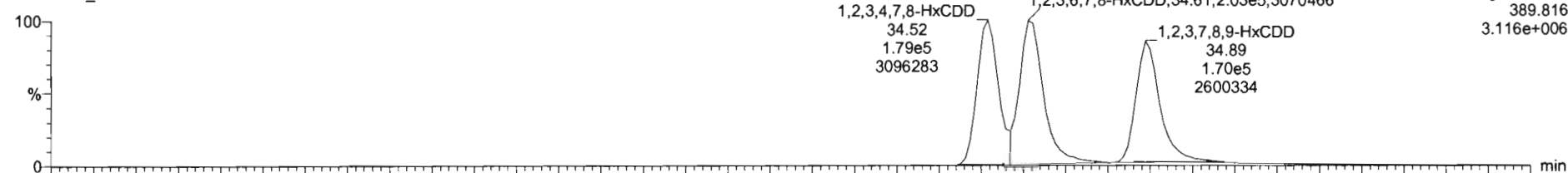
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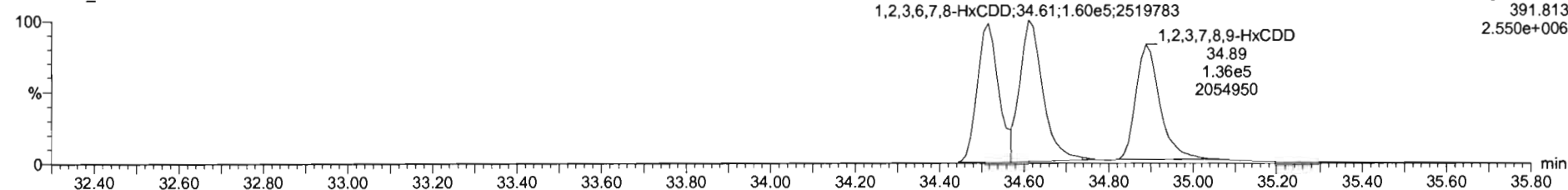
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**1,2,3,4,7,8-HxCDD**

200518R1\_3

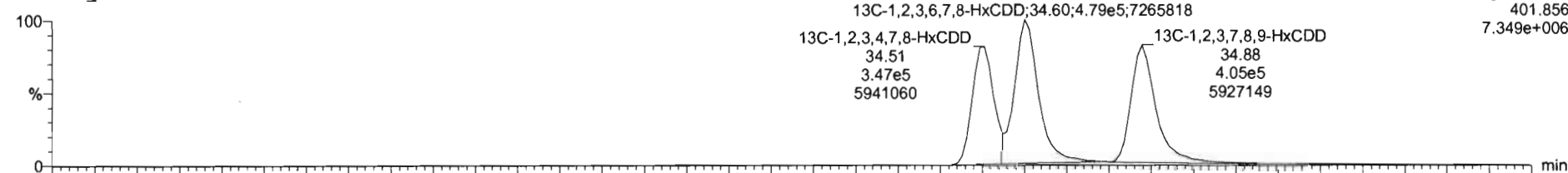


200518R1\_3

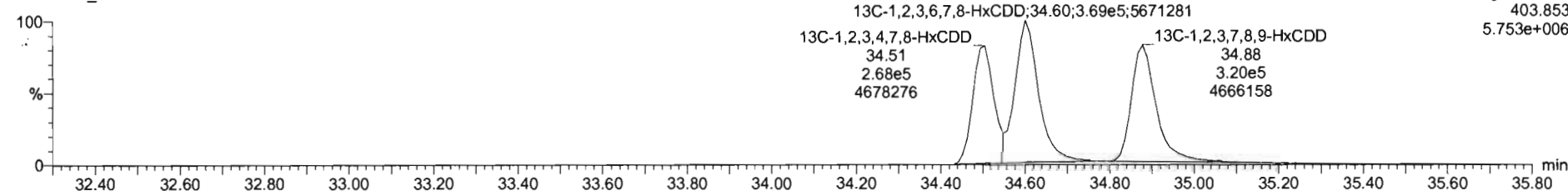


**13C-1,2,3,4,7,8-HxCDD**

200518R1\_3



200518R1\_3



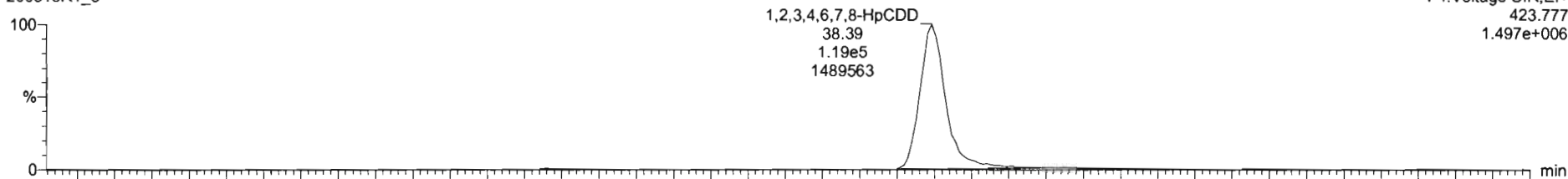
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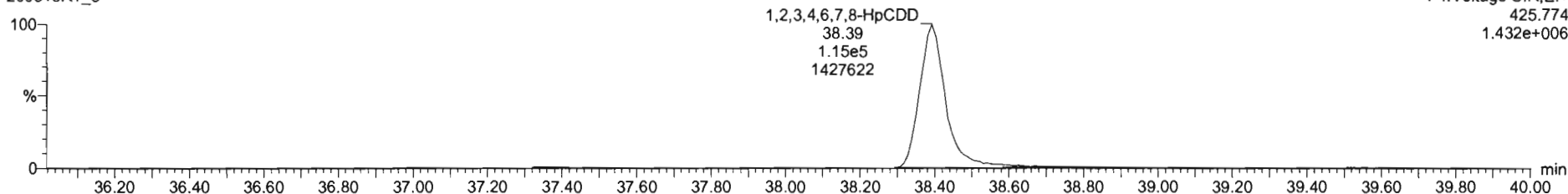
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**1,2,3,4,6,7,8-HpCDD**

200518R1\_3

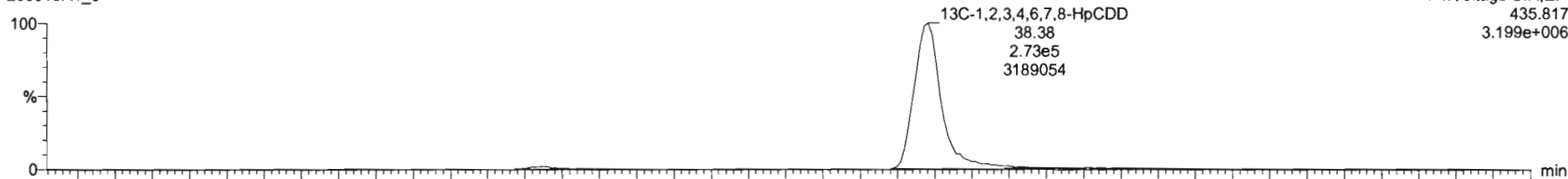


200518R1\_3

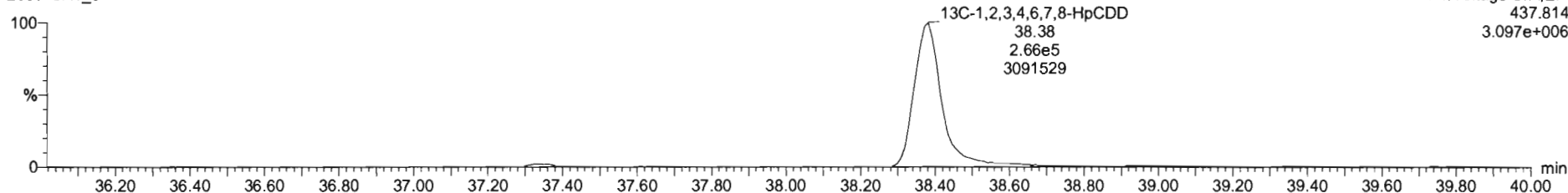


**13C-1,2,3,4,6,7,8-HpCDD**

200518R1\_3



200518R1\_3



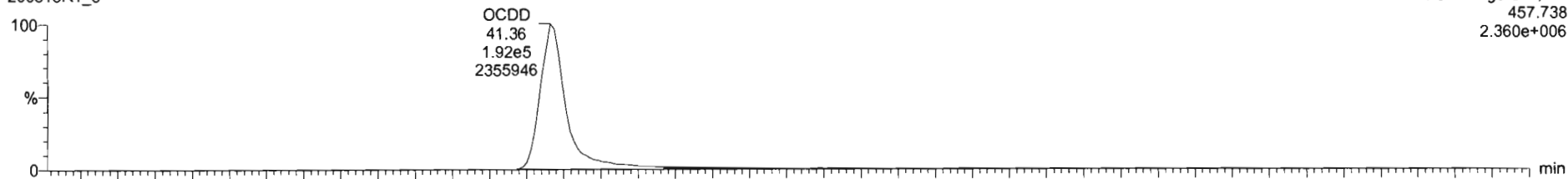
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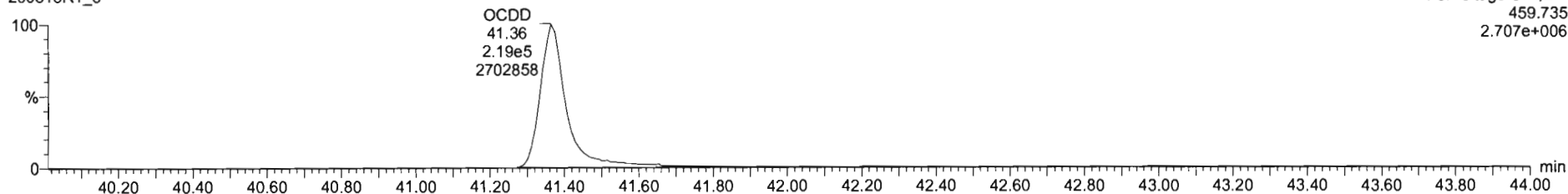
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**OCDD**

200518R1\_3

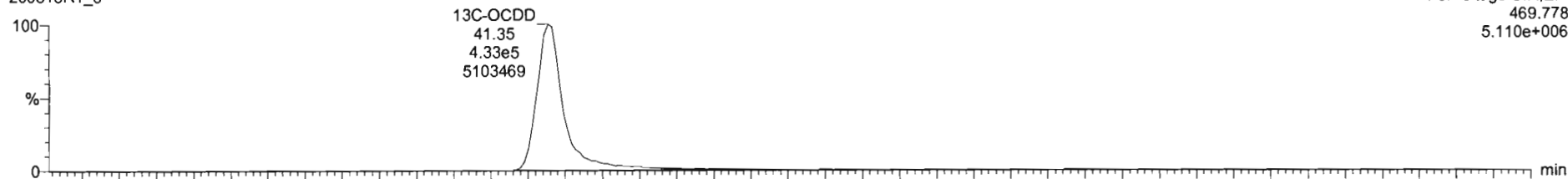


200518R1\_3

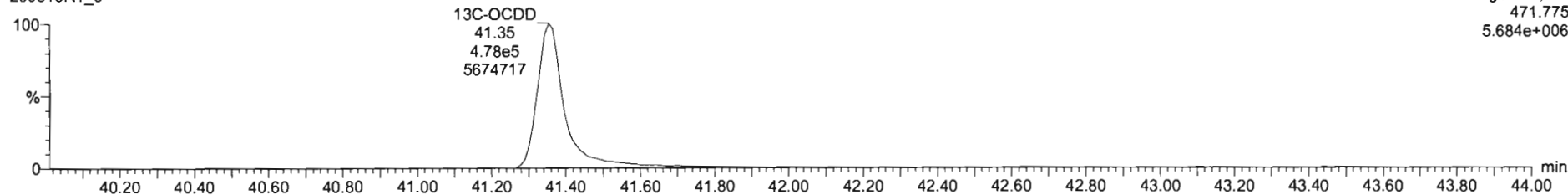


**13C-OCDD**

200518R1\_3



200518R1\_3



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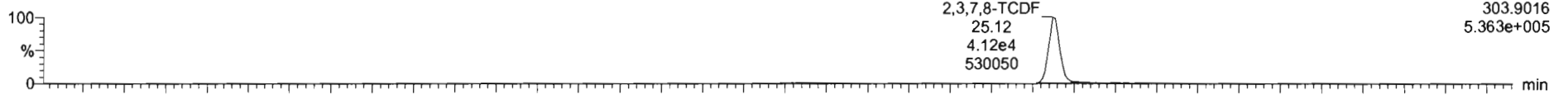
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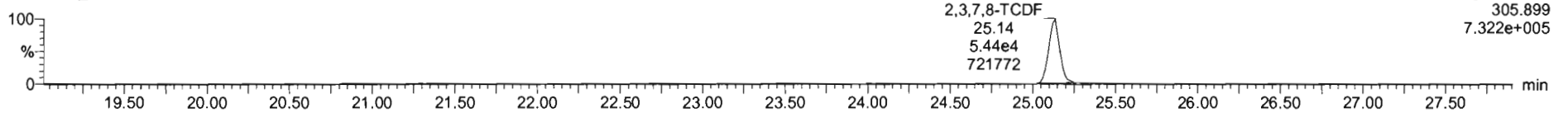
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**2,3,7,8-TCDF**

200518R1\_3

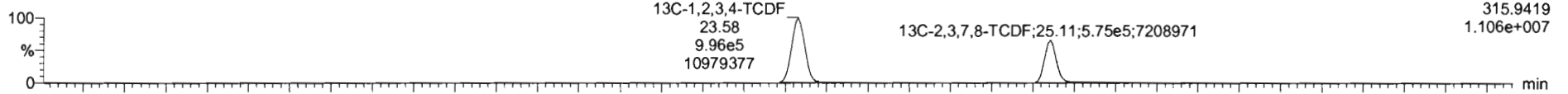


200518R1\_3

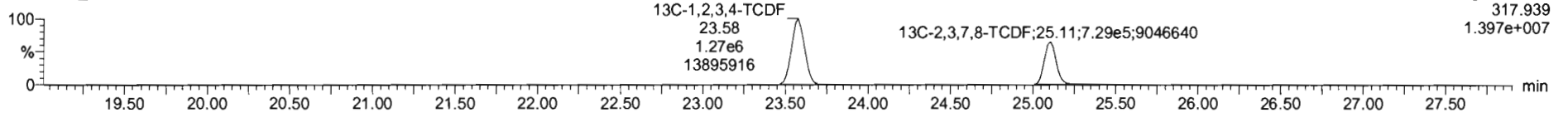


**13C-2,3,7,8-TCDF**

200518R1\_3

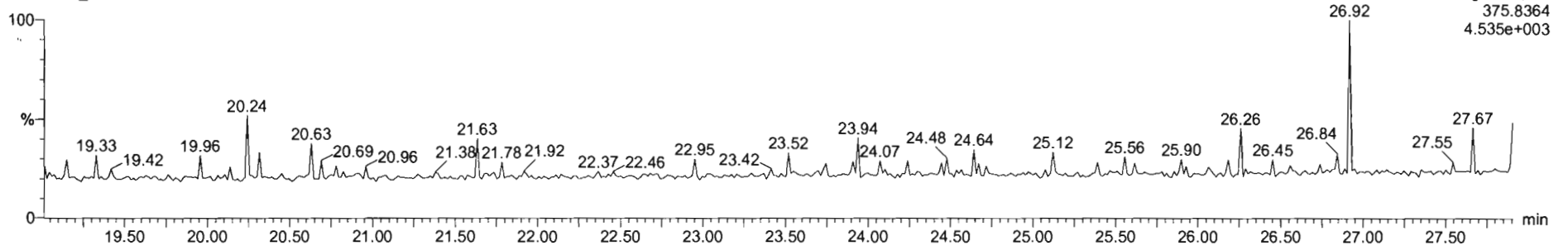


200518R1\_3



**DPE1**

200518R1\_3



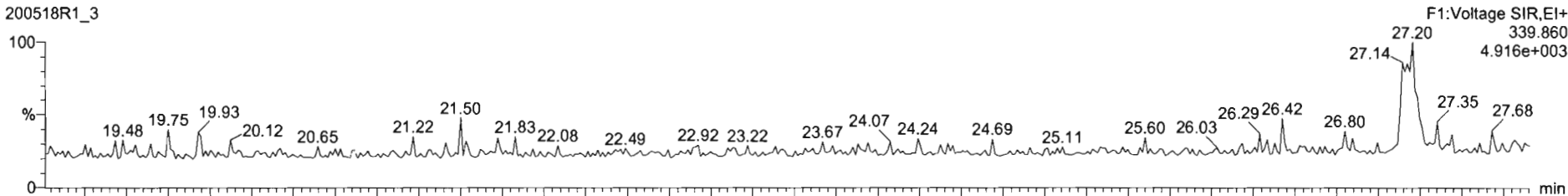
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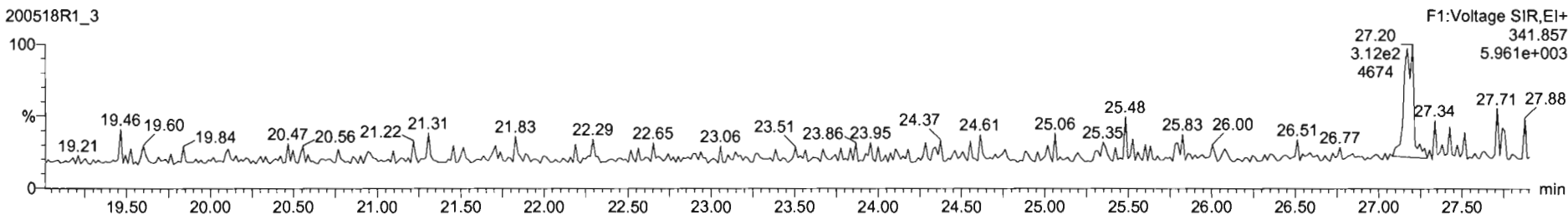
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200518R1\_3

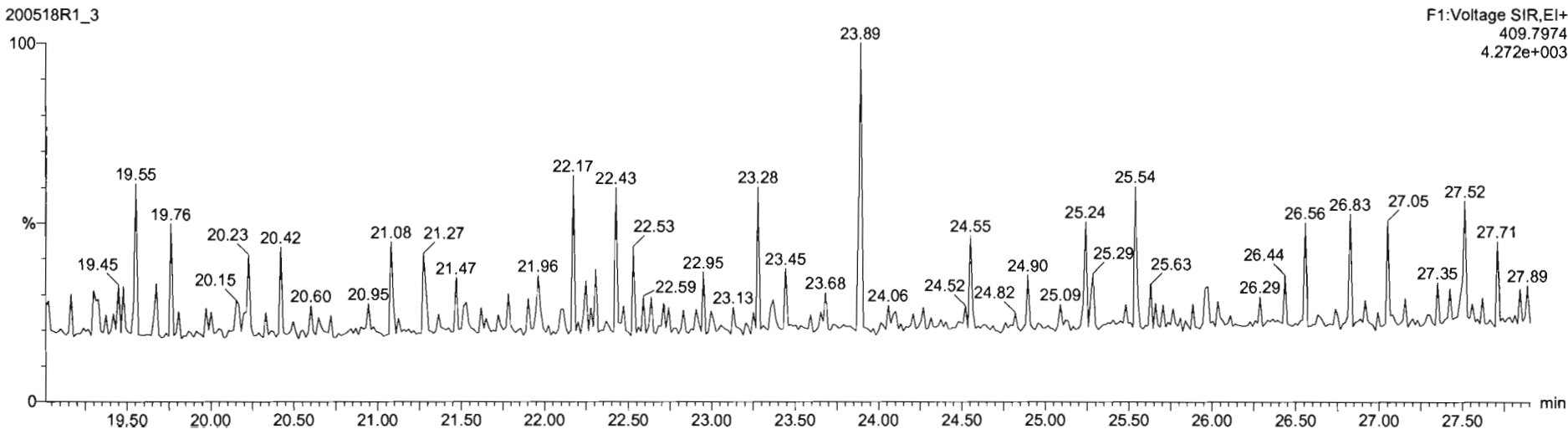


200518R1\_3



DPE6

200518R1\_3





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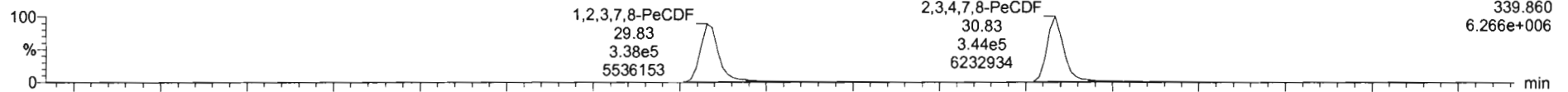
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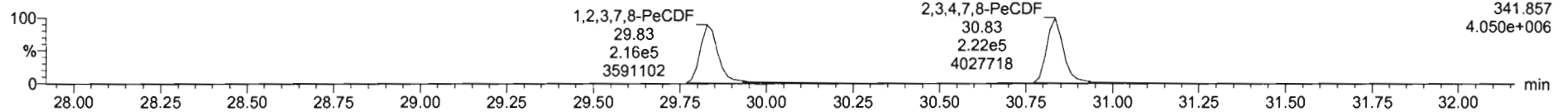
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**1,2,3,7,8-PeCDF**

200518R1\_3

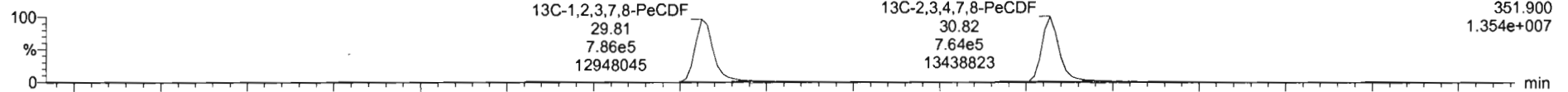


200518R1\_3

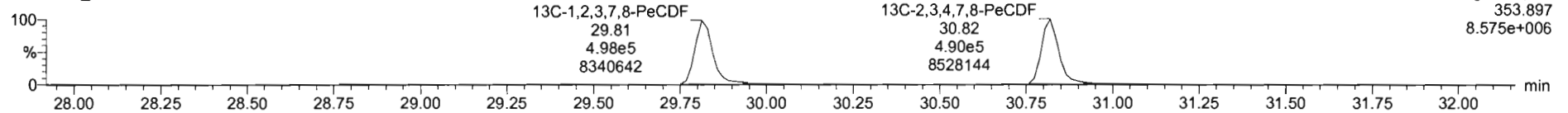


**13C-1,2,3,7,8-PeCDF**

200518R1\_3

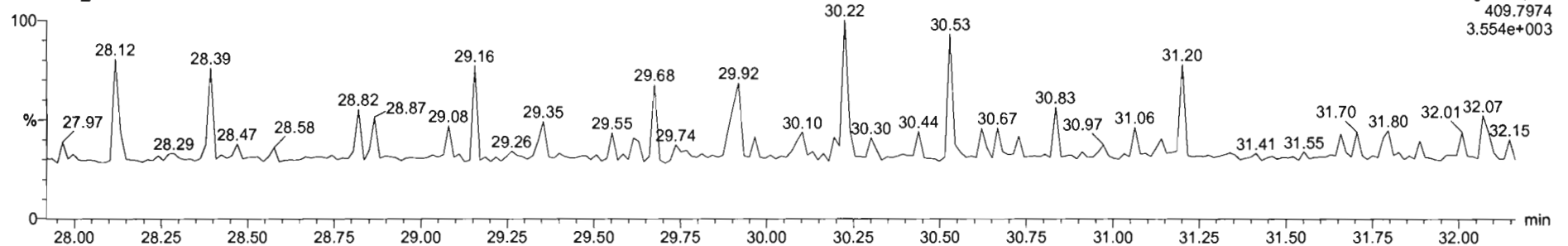


200518R1\_3



**DPE2**

200518R1\_3



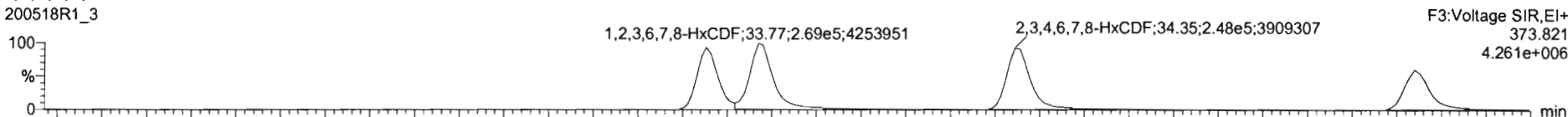
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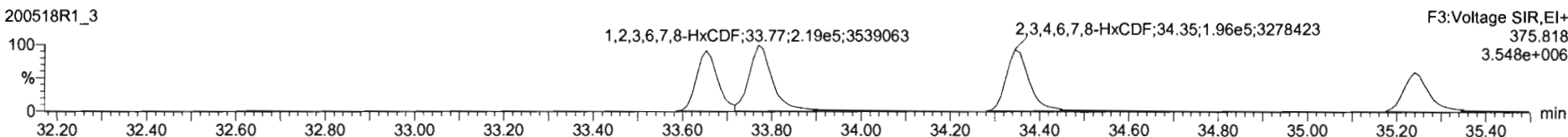
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**1,2,3,4,7,8-HxCDF**

200518R1\_3

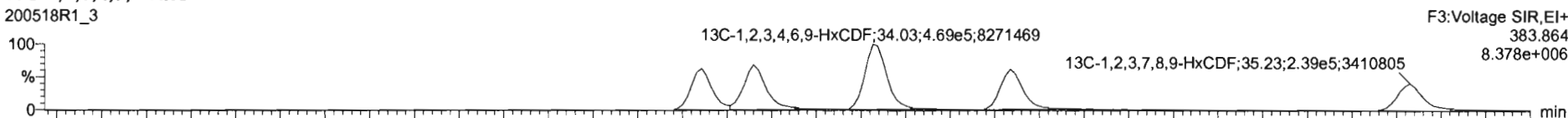


200518R1\_3

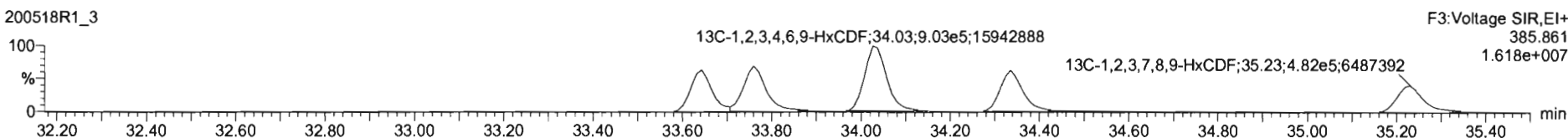


**13C-1,2,3,4,7,8-HxCDF**

200518R1\_3

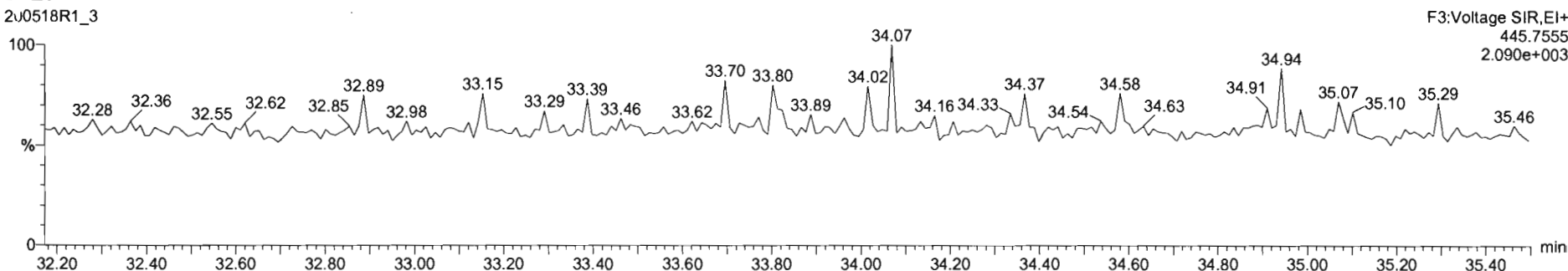


200518R1\_3



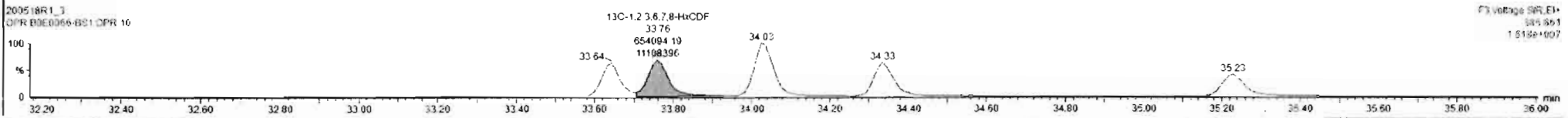
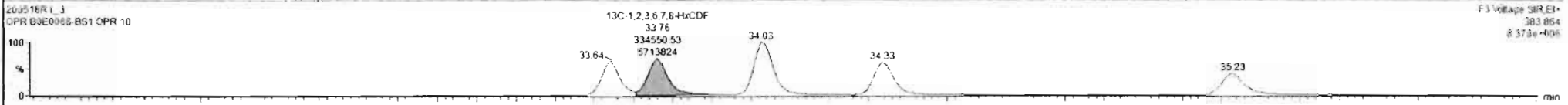
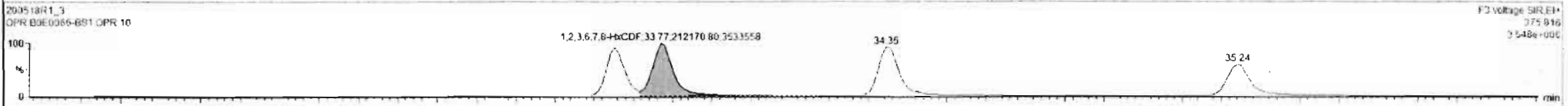
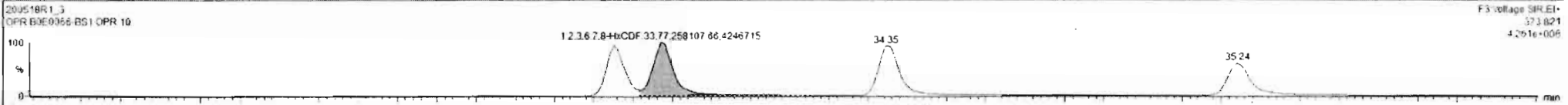
**DPE3**

200518R1\_3



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13	2,3,4,6,7,8-HxCDF	4.44e5	1.26	NO	0.9217	10.000	34.35	1.000	109		0.256	109

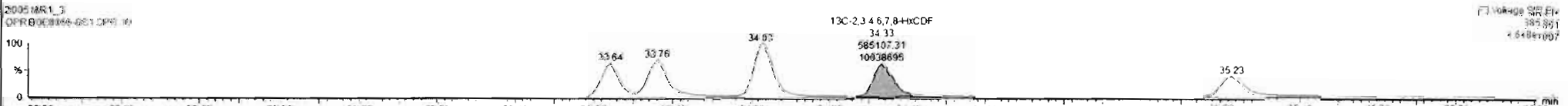
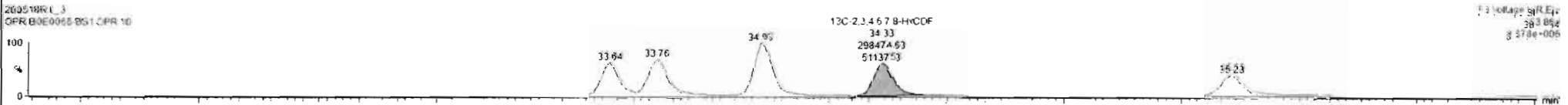
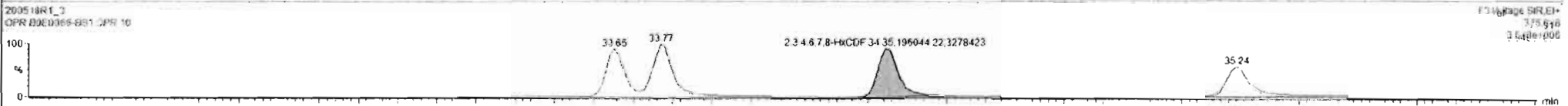
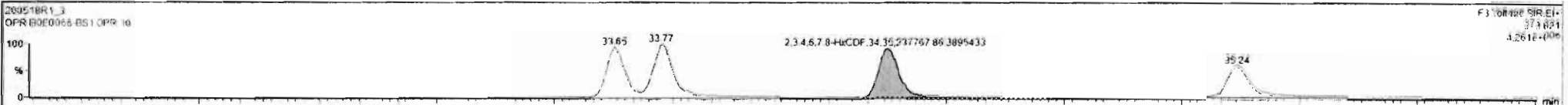
SI	Name	RT	m1 Resp	m2 Resp	RA	nBy	EMPC	Conc.
1								



Custom Reporting: Select reports to generate

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
12 1,2,3,6,7,8-HxCDF	4.78e5	1.22	NO	0.8740	10.000	33.77	1.000	109		0.242	109
13 2,3,4,6,7,8-HxCDF	4.34e5	1.21	NO	0.9217	10.000	34.35	1.000	107		0.256	107

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



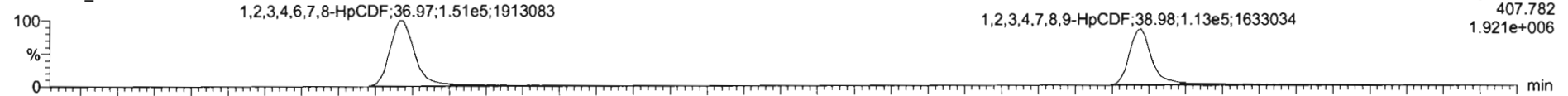
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Last Altered: Monday, May 18, 2020 14:01:40 Pacific Daylight Time  
Printed: Monday, May 18, 2020 14:02:15 Pacific Daylight Time

Name: 200518R1\_3, Date: 18-May-2020, Time: 09:56:30, ID: B0E0066-BS1 OPR 10, Description: OPR

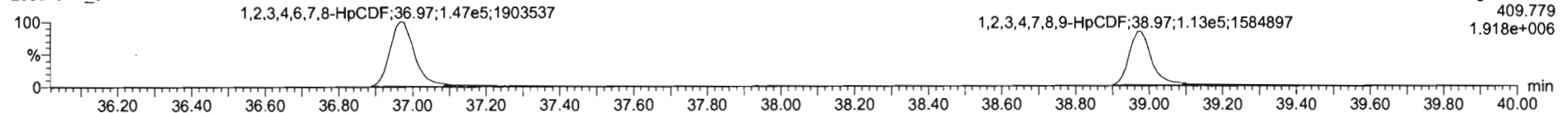
**1,2,3,4,6,7,8-HpCDF**

200518R1\_3



F4:Voltage SIR,EI+  
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1.921e+006

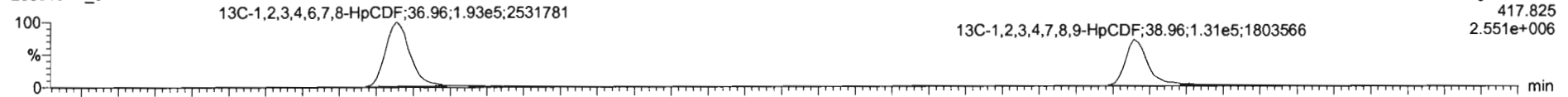
200518R1\_3



F4:Voltage SIR,EI+  
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1.918e+006

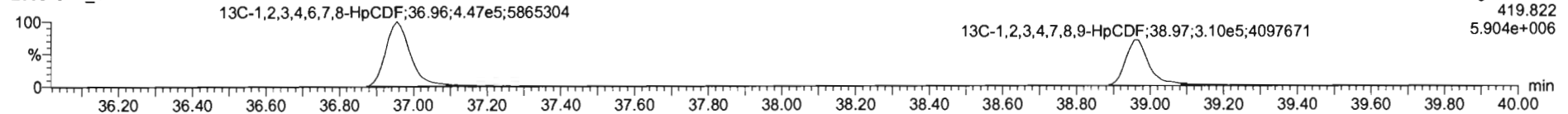
**13C-1,2,3,4,6,7,8-HpCDF**

200518R1\_3



F4:Voltage SIR,EI+  
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2.551e+006

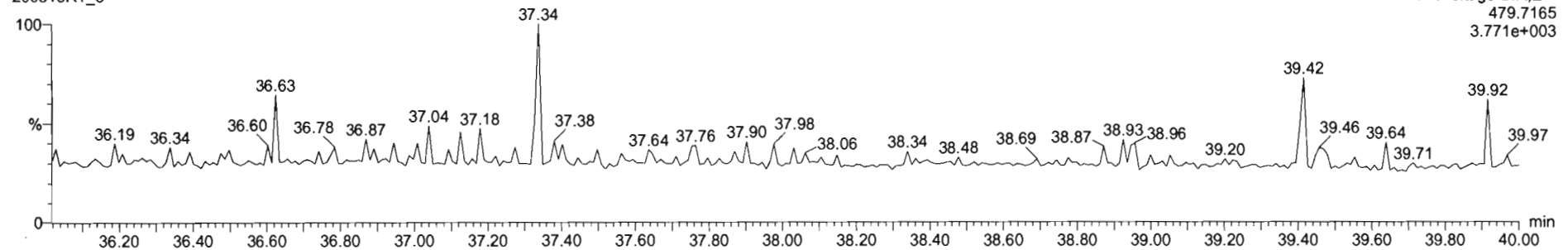
200518R1\_3



F4:Voltage SIR,EI+  
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5.904e+006

**DPE4**

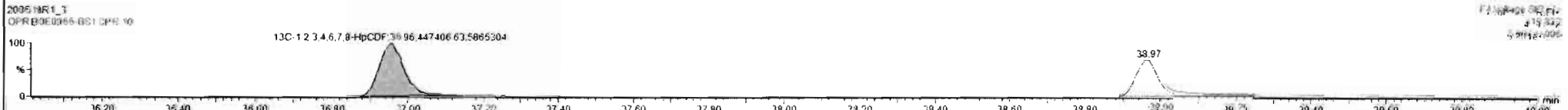
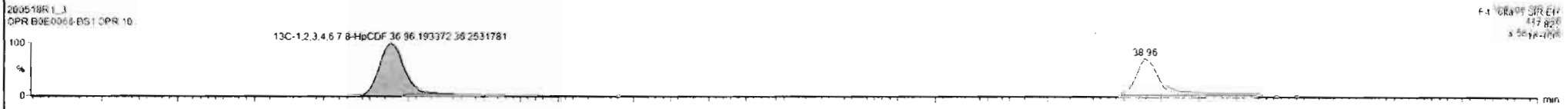
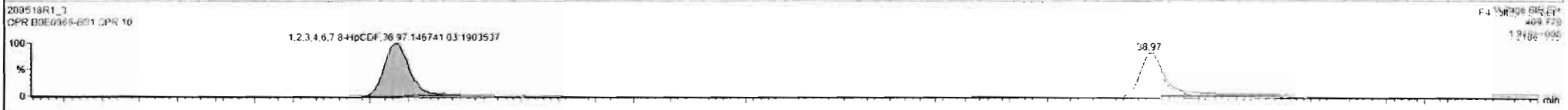
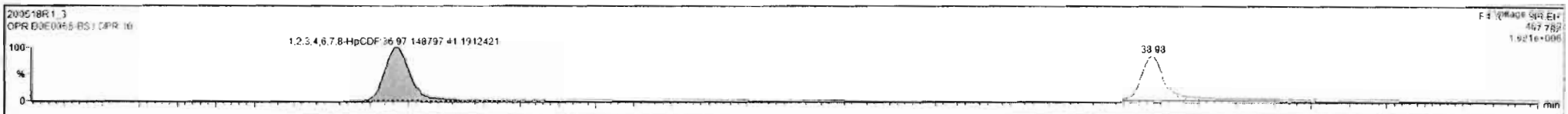
200518R1\_3



F4:Voltage SIR,EI+  
479.7165  
3.771e+003

SI	Name	Resp	RA	nly	RRF	wVol	RT	RRT	Conc.	%Rec	DL	EMPC
15	1,2,3,4,6,7,8-HpCDF	2.96e5	1.01	NO	0.6712	10.000	36.97	1.000	100		0.340	100
16	1,2,3,4,7,8,9-HpCDF	2.26e5	1.01	NO	1.0116	10.000	38.98	1.001	101		0.403	101

SI	Name	RT	n1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1								

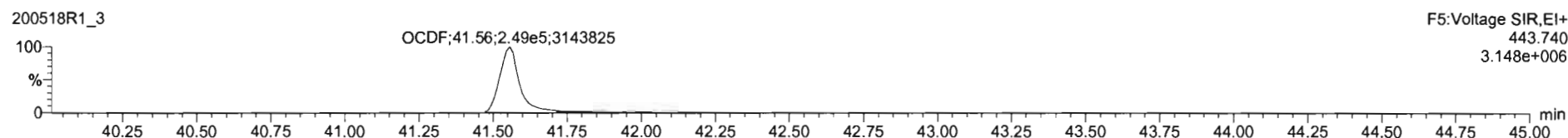
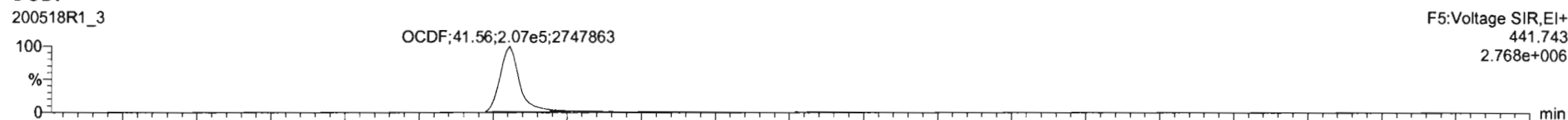


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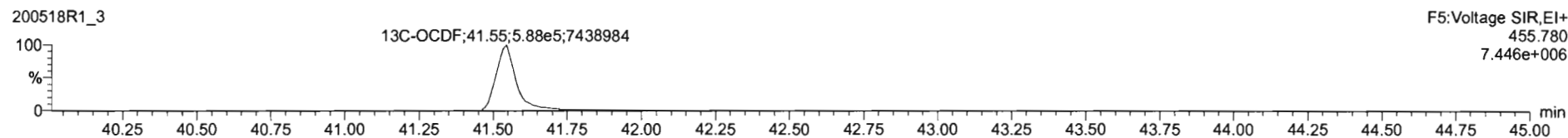
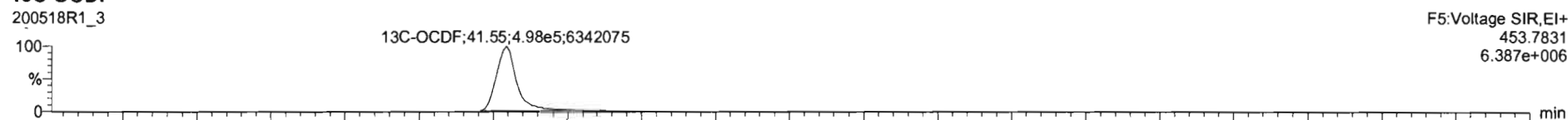
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Printed: Monday, May 18, 2020 14:02:15 Pacific Daylight Time

Name: 200518R1\_3, Date: 18-May-2020, Time: 09:56:30, ID: B0E0066-BS1 OPR 10, Description: OPR

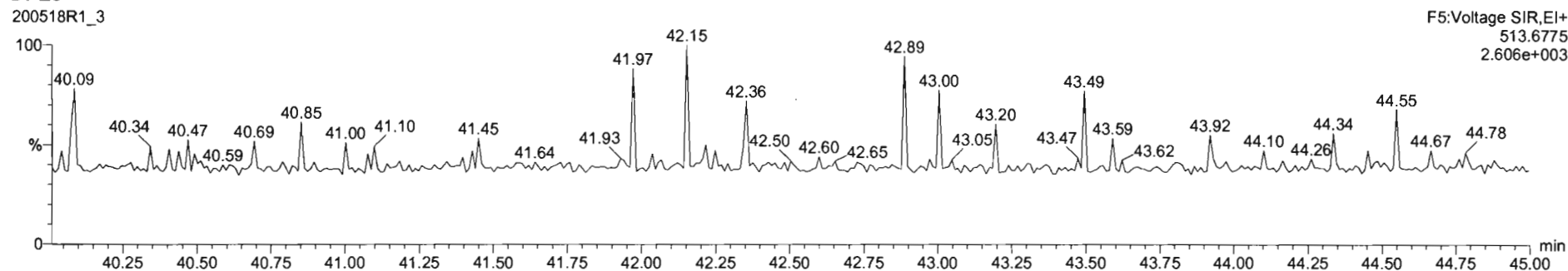
**OCDF**



**13C-OCDF**



**DPE5**

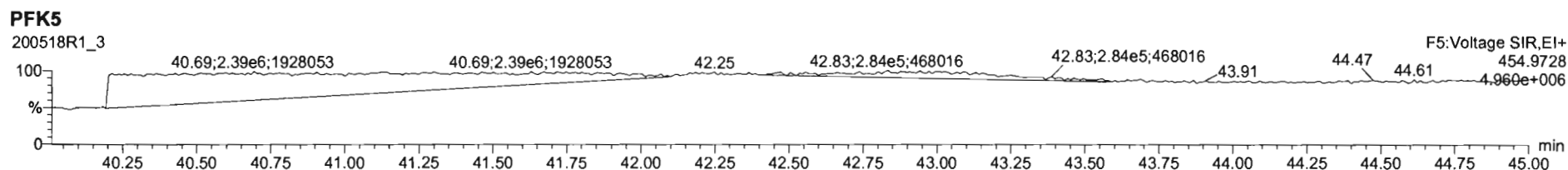
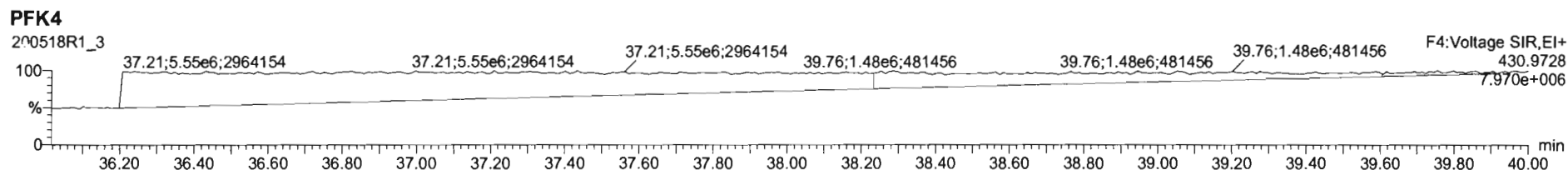
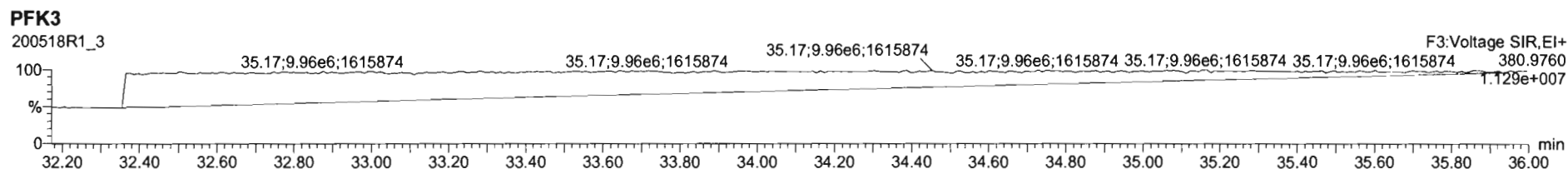
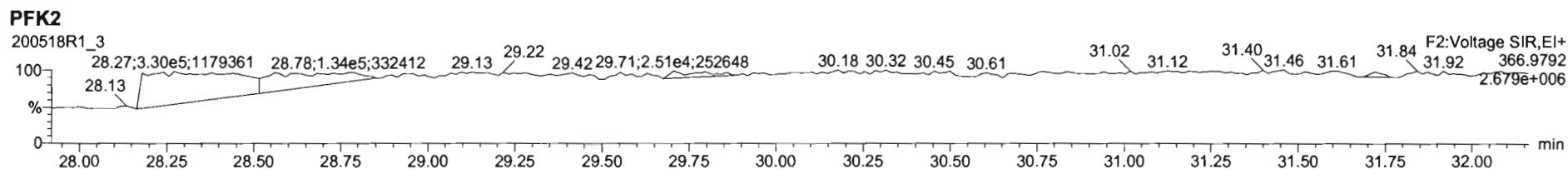
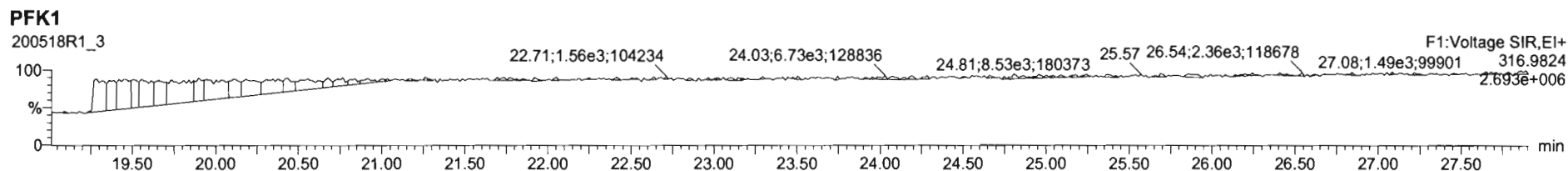


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Last Altered: Monday, May 18, 2020 14:01:40 Pacific Daylight Time

Printed: Monday, May 18, 2020 14:02:15 Pacific Daylight Time

Name: 200518R1\_3, Date: 18-May-2020, Time: 09:56:30, ID: B0E0066-BS1 OPR 10, Description: OPR





Dataset: U:\VG12.PRO\Results\200506R2\200506R2-6a.qld

Last Altered: Wednesday, May 13, 2020 14:15:40 Pacific Daylight Time  
Printed: Wednesday, May 13, 2020 14:34:56 Pacific Daylight Time

*by 05-13-2020 CT 05/13/2020*

Method: Untitled 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200506R2\_6, Date: 06-May-2020, Time: 17:28:49, ID: 2000951-01 PDI-1159SC-A-01-02-200423 12.82, Description: PDI-1159SC-A-01-02-200423

#	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	2.77e3	0.49	YES	0.947	10.286	26.006	26.02	1.001	1.002	0.63234		0.0976	0.481
2	2 1,2,3,7,8-PeCDD	1.74e3	0.64	NO	0.942	10.286	31.101	31.09	1.001	1.000	0.55694		0.337	0.557
3	3 1,2,3,4,7,8-HxCDD	1.05e3	0.87	YES	1.06	10.286	34.473	34.48	1.000	1.001	0.41735		0.201	0.351
4	4 1,2,3,6,7,8-HxCDD	5.02e3	1.23	NO	0.915	10.286	34.558	34.57	1.000	1.000	1.9553		0.214	1.96
5	5 1,2,3,7,8,9-HxCDD	3.13e3	1.16	NO	0.915	10.286	34.845	34.85	1.000	1.000	1.4443		0.261	1.44
6	6 1,2,3,4,6,7,8-HpCDD	1.11e5	1.03	NO	0.898	10.286	38.329	38.34	1.000	1.001	73.901		0.606	73.9
7	7 OCDD	9.78e5	0.89	NO	0.933	10.286	41.322	41.33	1.000	1.000	830.56		0.640	831
8	8 2,3,7,8-TCDF	7.22e4	0.78	NO	0.787	10.286	25.057	25.06	1.001	1.001	15.885 (13.1)		0.275	15.9
9	9 1,2,3,7,8-PeCDF	9.33e4	1.54	NO	0.910	10.286	29.788	29.78	1.001	1.001	19.884		0.177	19.9
10	10 2,3,4,7,8-PeCDF	3.20e4	1.58	NO	0.966	10.286	30.767	30.77	1.000	1.001	6.9078		0.173	6.91
11	11 1,2,3,4,7,8-HxCDF	1.10e5	1.22	NO	0.878	10.286	33.589	33.61	1.000	1.001	40.522		0.188	40.5
12	12 1,2,3,6,7,8-HxCDF	3.61e4	1.20	NO	0.874	10.286	33.727	33.73	1.000	1.000	11.462		0.178	11.5
13	13 2,3,4,6,7,8-HxCDF	6.78e3	1.15	NO	0.922	10.286	34.316	34.30	1.001	1.001	2.4672		0.207	2.47
14	14 1,2,3,7,8,9-HxCDF	5.25e3	1.18	NO	0.864	10.286	35.176	35.22	1.000	1.001	2.6486		0.332	2.65
15	15 1,2,3,4,6,7,8-HpCDF	4.57e4	1.01	NO	0.871	10.286	36.939	36.91	1.001	1.000	24.292		0.212	24.3
16	16 1,2,3,4,7,8,9-HpCDF	7.99e3	0.98	NO	1.01	10.286	38.915	38.94	1.000	1.001	6.7692		0.307	6.77
17	17 OCDF	5.53e4	0.84	NO	0.802	10.286	41.503	41.51	1.000	1.000	49.953		0.312	50.0
18	18 13C-2,3,7,8-TCDD	9.01e5	0.79	NO	1.16	10.286	25.969	25.98	1.026	1.027	173.68	89.3	0.251	
19	19 13C-1,2,3,7,8-PeCDD	6.46e5	0.64	NO	0.847	10.286	31.049	31.08	1.227	1.228	170.49	87.7	0.342	
20	20 13C-1,2,3,4,7,8-HxCDD	4.58e5	1.29	NO	0.750	10.286	34.462	34.46	1.014	1.014	174.69	89.8	0.543	
21	21 13C-1,2,3,6,7,8-HxCDD	5.46e5	1.29	NO	0.963	10.286	34.574	34.56	1.017	1.017	162.04	83.3	0.423	
22	22 13C-1,2,3,7,8,9-HxCDD	4.61e5	1.27	NO	0.838	10.286	34.843	34.83	1.025	1.025	157.26	80.9	0.486	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.27e5	1.06	NO	0.641	10.286	38.329	38.32	1.128	1.128	145.66	74.9	0.785	
24	24 13C-OCDD	4.91e5	0.90	NO	0.586	10.286	41.320	41.32	1.216	1.216	239.30	61.5	0.363	
25	25 13C-2,3,7,8-TCDF	1.12e6	0.77	NO	1.03	10.286	25.030	25.03	0.989	0.989	163.29	84.0	0.372	
26	26 13C-1,2,3,7,8-PeCDF	1.00e6	1.59	NO	0.845	10.286	29.741	29.77	1.176	1.177	178.34	91.7	0.624	
27	27 13C-2,3,4,7,8-PeCDF	9.31e5	1.54	NO	0.814	10.286	30.731	30.76	1.215	1.216	172.13	88.5	0.648	
28	28 13C-1,2,3,4,7,8-HxCDF	5.99e5	0.50	NO	1.00	10.286	33.602	33.59	0.989	0.988	170.35	87.6	0.547	
29	29 13C-1,2,3,6,7,8-HxCDF	7.00e5	0.51	NO	1.14	10.286	33.725	33.72	0.992	0.992	176.24	90.6	0.483	
30	30 13C-2,3,4,6,7,8-HxCDF	5.80e5	0.51	NO	1.02	10.286	34.292	34.28	1.009	1.009	162.15	83.4	0.537	
31	31 13C-1,2,3,7,8,9-HxCDF	4.46e5	0.52	NO	0.845	10.286	35.183	35.18	1.035	1.035	150.94	77.6	0.650	

Dataset: U:\VG12.PRO\Results\200506R2\200506R2-6a.qld

Last Altered: Wednesday, May 13, 2020 14:15:40 Pacific Daylight Time

Printed: Wednesday, May 13, 2020 14:34:56 Pacific Daylight Time

Name: 200506R2\_6, Date: 06-May-2020, Time: 17:28:49, ID: 2000951-01 PDI-1159SC-A-01-02-200423 12.82, Description: PDI-1159SC-A-01-02-200423

#	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	4.20e5	0.43	NO	0.771	10.286	36.912	36.90	1.086	1.086	155.64	80.0	0.511	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.27e5	0.41	NO	0.482	10.286	38.921	38.92	1.145	1.145	134.61	69.2	0.818	
34	34 13C-OCDF	5.36e5	0.86	NO	0.669	10.286	41.490	41.50	1.221	1.221	229.51	59.0	0.394	
35	35 37Cl-2,3,7,8-TCDD	3.76e5			1.10	10.286	25.999	26.00	1.028	1.028	76.572	98.5	0.0632	
36	36 13C-1,2,3,4-TCDD	8.69e5	0.79	NO	1.00	10.286	25.350	25.30	1.000	1.000	194.43	100	0.291	
37	37 13C-1,2,3,4-TCDF	1.29e6	0.78	NO	1.00	10.286	23.560	23.52	1.000	1.000	194.43	100	0.385	
38	38 13C-1,2,3,4,6,9-HxCDF	6.80e5	0.52	NO	1.00	10.286	34.000	33.98	1.000	1.000	194.43	100	0.549	
39	39 Total Tetra-Dioxins				0.947	10.286	24.620		0.000		1.5720		0.0978	2.33
40	40 Total Penta-Dioxins				0.942	10.286	29.960		0.000		0.84952		0.337	3.21
41	41 Total Hexa-Dioxins				0.915	10.286	33.635		0.000		21.833		0.235	23.5
42	42 Total Hepta-Dioxins				0.898	10.286	37.640		0.000		180.79		0.606	181
43	43 Total Tetra-Furans				0.787	10.286	23.610		0.000		55.591		0.275	56.5
44	44 1st Func. Penta-Furans				0.910	10.286	27.090		0.000		4.6725		0.0471	4.67
45	45 Total Penta-Furans				0.910	10.286	29.275		0.000		57.548		0.180	57.8
46	46 Total Hexa-Furans				0.922	10.286	33.555		0.000		75.731		0.208	75.9
47	47 Total Hepta-Furans				0.871	10.286	37.835		0.000		62.588		0.263	62.6

Dataset: U:\VG12.PRO\Results\200506R2\200506R2-6a.qld

Last Altered: Wednesday, May 13, 2020 14:15:40 Pacific Daylight Time  
 Printed: Wednesday, May 13, 2020 14:34:56 Pacific Daylight Time

Method: Untitled 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\ldb5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200506R2\_6, Date: 06-May-2020, Time: 17:28:49, ID: 2000951-01 PDI-1159SC-A-01-02-200423 12.82, Description: PDI-1159SC-A-01-02-200423

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	21.84	1.650e4	2.111e4	1.495e3	1.867e3	0.80	NO	3.362e3	0.76620	0.76620	0.0978
2	Total Tetra-Dioxins	22.25	6.632e3	5.721e3	4.032e2	4.462e2	0.90	YES	0.000e0	0.00000	0.18000	0.0978
3	Total Tetra-Dioxins	23.72	3.296e3	4.132e3	2.840e2	3.471e2	0.82	NO	6.311e2	0.14382	0.14382	0.0978
4	Total Tetra-Dioxins	24.00	4.228e3	5.387e3	3.132e2	3.572e2	0.88	NO	6.704e2	0.15277	0.15277	0.0978
5	Total Tetra-Dioxins	24.21	5.591e3	6.407e3	4.347e2	5.576e2	0.78	NO	9.923e2	0.22612	0.22612	0.0978
6	Total Tetra-Dioxins	25.74	7.777e3	8.842e3	5.308e2	7.113e2	0.75	NO	1.242e3	0.28304	0.28304	0.0978
7	2,3,7,8-TCDD	26.02	1.178e4	2.517e4	9.184e2	1.856e3	0.49	YES	2.775e3	0.00000	0.48109	0.0978
8	Total Tetra-Dioxins	26.35	4.939e3	3.310e3	2.403e2	2.305e2	1.04	YES	0.000e0	0.00000	0.092962	0.0978

**Penta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.84	2.244e4	2.294e4	1.512e3	2.048e3	0.74	YES	0.000e0	0.00000	1.0662	0.337
2	Total Penta-Dioxins	29.34	5.844e3	1.095e4	3.204e2	5.956e2	0.54	NO	9.160e2	0.29258	0.29258	0.337
3	Total Penta-Dioxins	29.84	1.273e4	1.911e4	8.655e2	1.102e3	0.79	YES	0.000e0	0.00000	0.57370	0.337
4	Total Penta-Dioxins	30.00	7.308e3	1.215e4	2.776e2	5.666e2	0.49	YES	0.000e0	0.00000	0.22942	0.337
5	Total Penta-Dioxins	30.10	4.486e3	6.004e3	2.977e2	3.682e2	0.81	YES	0.000e0	0.00000	0.19168	0.337
6	Total Penta-Dioxins	30.33	7.256e3	1.028e4	4.250e2	5.825e2	0.73	YES	0.000e0	0.00000	0.30326	0.337
7	1,2,3,7,8-PeCDD	31.09	1.726e4	2.291e4	6.820e2	1.062e3	0.64	NO	1.744e3	0.55694	0.55694	0.337

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200506R2\200506R2-6a.qld

Last Altered: Wednesday, May 13, 2020 14:15:40 Pacific Daylight Time

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Name: 200506R2\_6, Date: 06-May-2020, Time: 17:28:49, ID: 2000951-01 PDI-1159SC-A-01-02-200423 12.82, Description: PDI-1159SC-A-01-02-200423

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.00	2.099e5	1.733e5	1.138e4	9.083e3	1.25	NO	2.047e4	8.9151	8.9151	0.235
2	Total Hexa-Dioxins	33.55	3.243e4	2.756e4	1.620e3	1.548e3	1.05	YES	0.000e0	0.00000	1.2751	0.235
3	Total Hexa-Dioxins	33.80	1.419e5	1.132e5	1.010e4	8.435e3	1.20	NO	1.853e4	8.0741	8.0741	0.235
4	Total Hexa-Dioxins	33.88	1.870e4	1.615e4	1.220e3	1.031e3	1.18	NO	2.251e3	0.98065	0.98065	0.235
5	1,2,3,4,7,8-HxCDD	34.48	9.743e3	1.070e4	4.874e2	5.588e2	0.87	YES	1.046e3	0.00000	0.35123	0.201
6	1,2,3,6,7,8-HxCDD	34.57	4.429e4	3.271e4	2.769e3	2.249e3	1.23	NO	5.018e3	1.9553	1.9553	0.214
7	Total Hexa-Dioxins	34.75	1.291e4	9.112e3	5.830e2	4.824e2	1.21	NO	1.065e3	0.46409	0.46409	0.235
8	1,2,3,7,8,9-HxCDD	34.85	2.222e4	2.207e4	1.681e3	1.449e3	1.16	NO	3.130e3	1.4443	1.4443	0.261

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.31	1.120e6	1.098e6	8.138e4	7.989e4	1.02	NO	1.613e5	106.89	106.89	0.606
2	1,2,3,4,6,7,8-HpCDD	38.34	7.349e5	7.292e5	5.650e4	5.500e4	1.03	NO	1.115e5	73.901	73.901	0.606

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200506R2\200506R2-6a.qld

Last Altered: Wednesday, May 13, 2020 14:15:40 Pacific Daylight Time

Printed: Wednesday, May 13, 2020 14:34:56 Pacific Daylight Time

Name: 200506R2\_6, Date: 06-May-2020, Time: 17:28:49, ID: 2000951-01 PDI-1159SC-A-01-02-200423 12.82, Description: PDI-1159SC-A-01-02-200423

**Tetra-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	19.81	7.271e3	6.746e3	5.282e2	5.004e2	1.06	YES	0.000e0	0.00000	0.19484	0.275
2	Total Tetra-Furans	20.30	1.035e4	9.931e3	7.623e2	9.941e2	0.77	NO	1.756e3	0.38639	0.38639	0.275
3	Total Tetra-Furans	20.89	6.507e4	8.765e4	5.978e3	7.779e3	0.77	NO	1.376e4	3.0266	3.0266	0.275
4	Total Tetra-Furans	21.44	1.087e4	1.630e4	1.205e3	1.572e3	0.77	NO	2.777e3	0.61089	0.61089	0.275
5	Total Tetra-Furans	21.80	8.551e4	1.175e5	8.372e3	1.156e4	0.72	NO	1.993e4	4.3848	4.3848	0.275
6	Total Tetra-Furans	22.28	2.369e4	3.064e4	2.330e3	3.329e3	0.70	NO	5.660e3	1.2451	1.2451	0.275
7	Total Tetra-Furans	22.43	5.019e3	5.951e3	4.150e2	4.622e2	0.90	YES	0.000e0	0.00000	0.17997	0.275
8	Total Tetra-Furans	22.62	1.718e4	2.008e4	1.456e3	1.775e3	0.82	NO	3.232e3	0.71095	0.71095	0.275
9	Total Tetra-Furans	23.40	1.795e4	2.749e4	8.520e2	1.416e3	0.60	YES	0.000e0	0.00000	0.43087	0.275
10	Total Tetra-Furans	23.52	1.283e5	1.720e5	1.457e4	1.914e4	0.76	NO	3.370e4	7.4146	7.4146	0.275
11	Total Tetra-Furans	24.09	2.883e5	3.822e5	2.691e4	3.527e4	0.76	NO	6.217e4	13.678	13.678	0.275
12	Total Tetra-Furans	24.39	1.433e4	1.737e4	1.335e3	1.753e3	0.76	NO	3.088e3	0.67931	0.67931	0.275
13	Total Tetra-Furans	24.60	1.219e4	1.526e4	9.913e2	1.312e3	0.76	NO	2.304e3	0.50682	0.50682	0.275
14	Total Tetra-Furans	24.94	1.269e5	1.620e5	8.978e3	1.140e4	0.79	NO	2.037e4	4.4824	4.4824	0.275
15	2,3,7,8-TCDF	25.06	3.700e5	4.648e5	3.157e4	4.063e4	0.78	NO	7.220e4	15.885	15.885	0.275
16	Total Tetra-Furans	25.45	2.245e4	3.008e4	1.898e3	2.484e3	0.76	NO	4.382e3	0.96409	0.96409	0.275
17	Total Tetra-Furans	25.72	4.733e3	5.031e3	3.514e2	3.727e2	0.94	YES	0.000e0	0.00000	0.14514	0.275
18	Total Tetra-Furans	27.16	5.095e4	5.783e4	3.177e3	4.173e3	0.76	NO	7.350e3	1.6170	1.6170	0.275

**Penta-Furans function 1**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.16	1.872e5	1.186e5	1.308e4	8.061e3	1.62	NO	2.114e4	4.6725	4.6725	0.0471

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200506R2\200506R2-6a.qld

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Printed: Wednesday, May 13, 2020 14:34:56 Pacific Daylight Time

Name: 200506R2\_6, Date: 06-May-2020, Time: 17:28:49, ID: 2000951-01 PDI-1159SC-A-01-02-200423 12.82, Description: PDI-1159SC-A-01-02-200423

## 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	2.122e4	1.295e4	8.434e2	4.503e2	1.87	YES	0.000e0	0.00000	0.25377	0.180
2	Total Penta-Furans	28.77	4.279e5	2.817e5	3.574e4	2.322e4	1.54	NO	5.896e4	13.029	13.029	0.180
3	Total Penta-Furans	29.37	1.492e5	9.710e4	1.101e4	7.215e3	1.53	NO	1.822e4	4.0263	4.0263	0.180
4	Total Penta-Furans	29.60	1.407e5	8.777e4	8.417e3	5.231e3	1.61	NO	1.365e4	3.0160	3.0160	0.180
5	1,2,3,7,8-PeCDF	29.78	9.215e5	5.901e5	5.654e4	3.672e4	1.54	NO	9.325e4	19.884	19.884	0.177
6	Total Penta-Furans	30.06	3.017e5	2.043e5	1.824e4	1.191e4	1.53	NO	3.016e4	6.6639	6.6639	0.180
7	2,3,4,7,8-PeCDF	30.77	4.140e5	2.550e5	1.959e4	1.239e4	1.58	NO	3.198e4	6.9078	6.9078	0.173
8	Total Penta-Furans	30.80	2.967e5	1.725e5	9.980e3	6.093e3	1.64	NO	1.607e4	3.5520	3.5520	0.180
9	Total Penta-Furans	31.72	1.943e4	1.355e4	1.321e3	8.017e2	1.65	NO	2.123e3	0.46914	0.46914	0.180

## Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.45	6.367e4	5.741e4	3.655e3	2.991e3	1.22	NO	6.645e3	2.4124	2.4124	0.208
2	Total Hexa-Furans	32.61	2.046e5	1.762e5	1.155e4	9.296e3	1.24	NO	2.084e4	7.5661	7.5661	0.208
3	Total Hexa-Furans	32.96	6.064e3	4.401e3	2.818e2	1.893e2	1.49	YES	0.000e0	0.00000	0.15390	0.208
4	Total Hexa-Furans	33.15	1.991e5	1.571e5	1.045e4	8.497e3	1.23	NO	1.894e4	6.8772	6.8772	0.208
5	Total Hexa-Furans	33.51	1.253e4	1.085e4	4.891e2	4.173e2	1.17	NO	9.064e2	0.32906	0.32906	0.208
6	1,2,3,4,7,8-HxCDF	33.61	1.139e6	9.301e5	6.019e4	4.936e4	1.22	NO	1.095e5	40.522	40.522	0.188
7	1,2,3,6,7,8-HxCDF	33.73	3.085e5	2.650e5	1.969e4	1.640e4	1.20	NO	3.609e4	11.462	11.462	0.178
8	2,3,4,6,7,8-HxCDF	34.30	6.039e4	5.441e4	3.625e3	3.154e3	1.15	NO	6.779e3	2.4672	2.4672	0.207
9	1,2,3,7,8,9-HxCDF	35.22	7.003e4	5.553e4	2.840e3	2.408e3	1.18	NO	5.248e3	2.6486	2.6486	0.332
10	Total Hexa-Furans	35.23	6.800e4	5.586e4	2.244e3	1.740e3	1.29	NO	3.984e3	1.4461	1.4461	0.208

## 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	36.91	3.151e5	3.074e5	2.296e4	2.272e4	1.01	NO	4.568e4	24.292	24.292	0.212
2	Total Hepta-Furans	37.32	7.787e3	7.675e3	4.385e2	4.313e2	1.02	NO	8.697e2	0.60035	0.60035	0.263
3	Total Hepta-Furans	37.52	3.135e5	3.197e5	2.231e4	2.249e4	0.99	NO	4.480e4	30.926	30.926	0.263
4	1,2,3,4,7,8,9-HpCDF	38.94	6.404e4	6.237e4	3.963e3	4.031e3	0.98	NO	7.994e3	6.7692	6.7692	0.307

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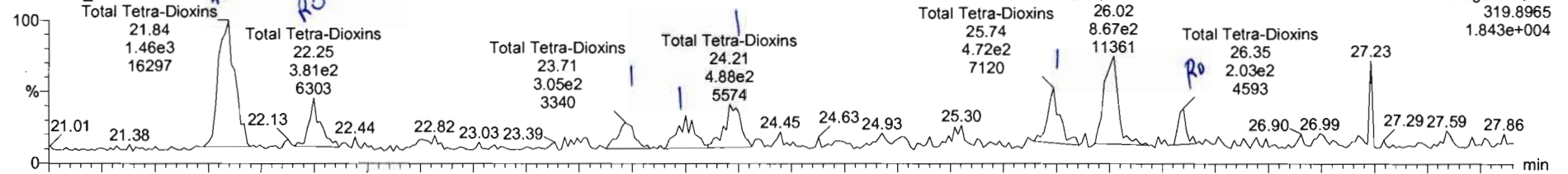
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*uly 05-07-2020*

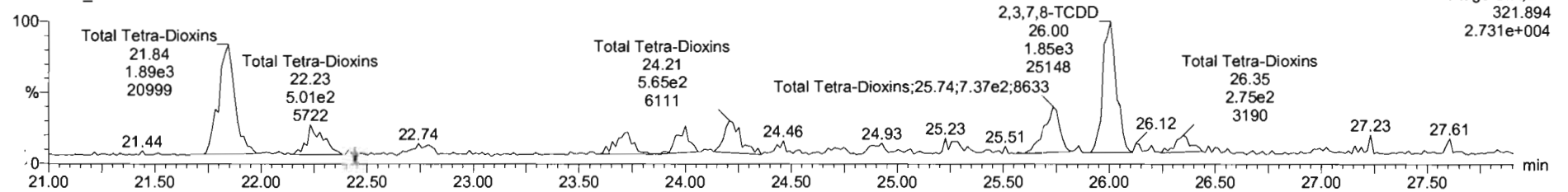
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**2,3,7,8-TCDD**

200506R2\_6

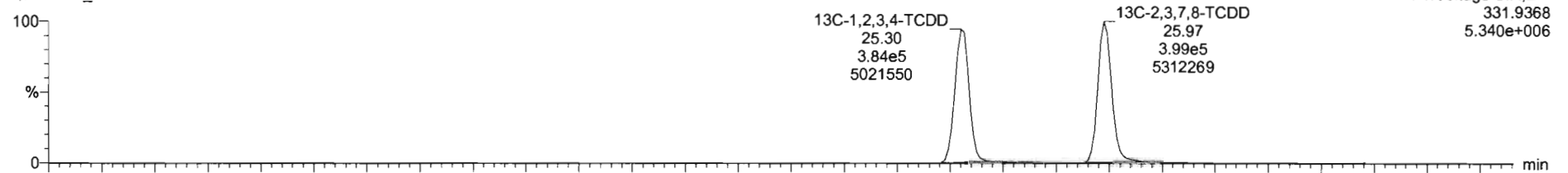


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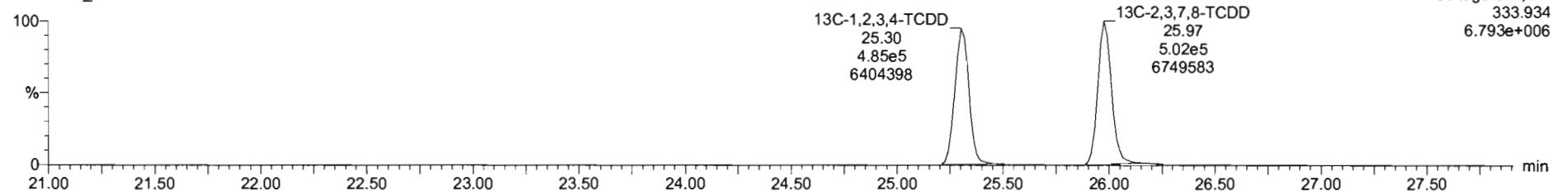


**13C-2,3,7,8-TCDD**

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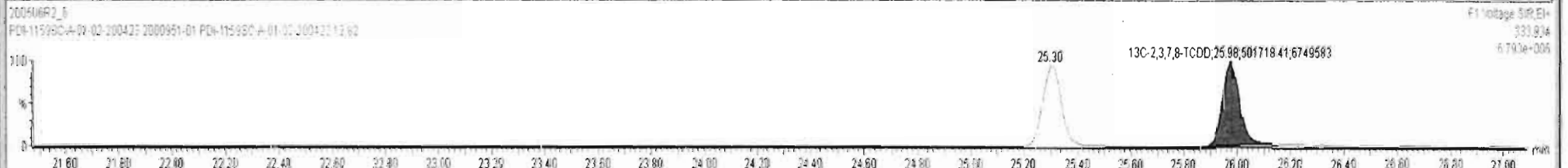
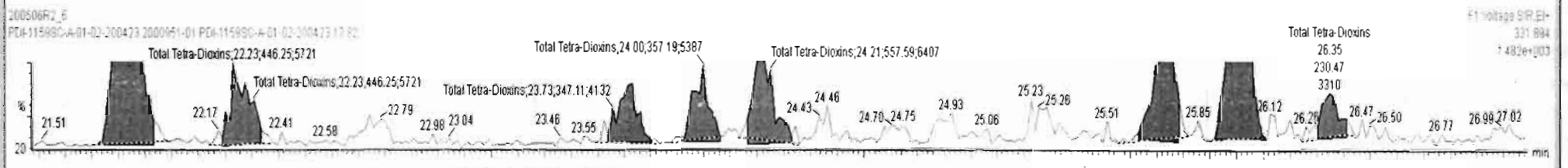
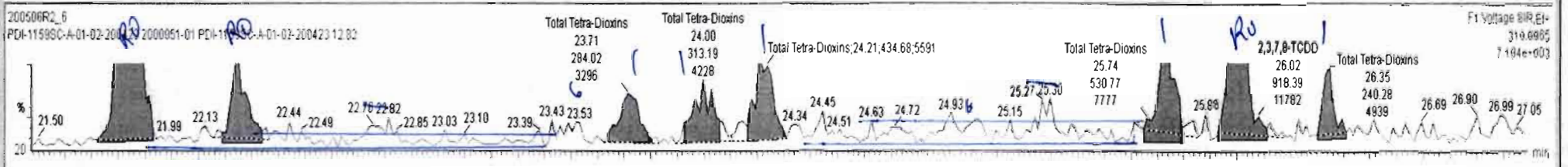
200506R2\_6



200506R2\_6 - 2000951-01 FDI-1159SC-A-01-02-200423 12 82 - PDI-1159SC-A-01-02-200423

Name	Conc.	DL	%Rec	EMPC	Abs Resp	RRF	RT	#	ISF	RA	Y/N	RRT	Acq Date	Acq Time	1° Chr Noise	ID	Sample Text	Factor1	SM	Cal File
39 Total Tetra-Dioxins	1.57196	0.0978		2.32600		0.947	39						06-May-20	17:28:49		2000951-01...	PDI-1159SC-A-0...	0.0	10.3	ds5_1...

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC
1 Total Tetra-Dioxins	26.35	4.939e3	3.310e3	2.403e2	2.305e2	1.04	YES	0.000e0	0.000	0.0930
2 2,3,7,8-TCDD	26.02	1.178e4	2.517e4	9.184e2	1.856e3	0.49	YES	2.775e3	0.000	0.481
3 Total Tetra-Dioxins	25.74	7.777e3	8.842e3	5.308e2	7.113e2	0.75	NO	1.242e3	0.283	0.283
4 Total Tetra-Dioxins	24.21	5.591e3	6.407e3	4.347e2	5.576e2	0.78	NO	9.923e2	0.226	0.226
5 Total Tetra-Dioxins	24.00	4.228e3	5.387e3	3.132e2	3.572e2	0.88	NO	6.704e2	0.153	0.153
6 Total Tetra-Dioxins	23.71	3.296e3	4.132e3	2.840e2	3.471e2	0.82	NO	6.311e2	0.144	0.144
7 Total Tetra-Dioxins	22.25	6.632e3	5.721e3	4.032e2	4.462e2	0.90	YES	0.000e0	0.000	0.180
8 Total Tetra-Dioxins	21.84	1.650e4	2.111e4	1.495e3	1.867e3	0.80	NO	3.362e3	0.766	0.766





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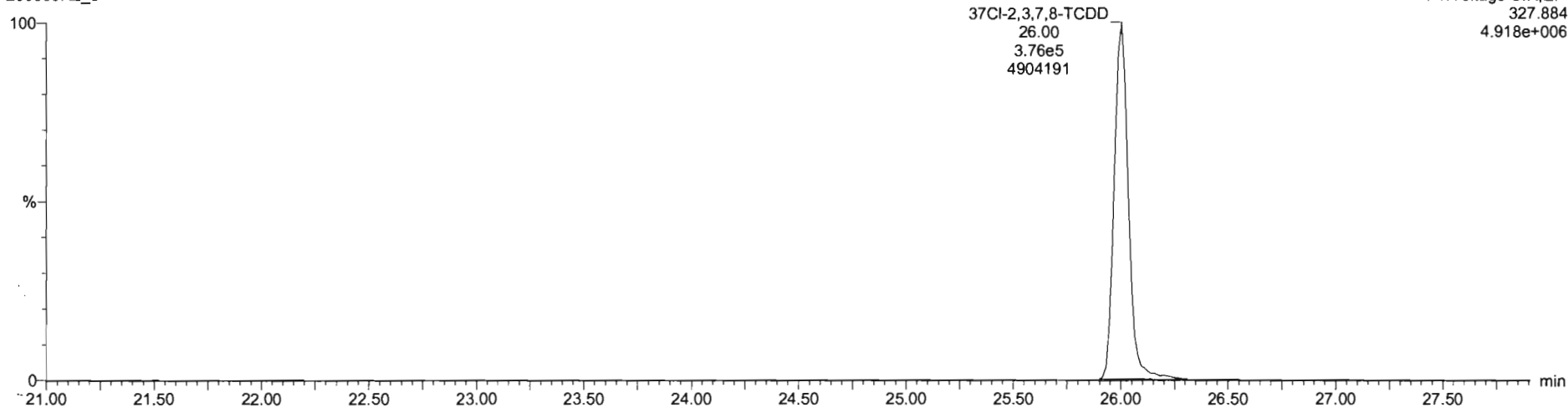
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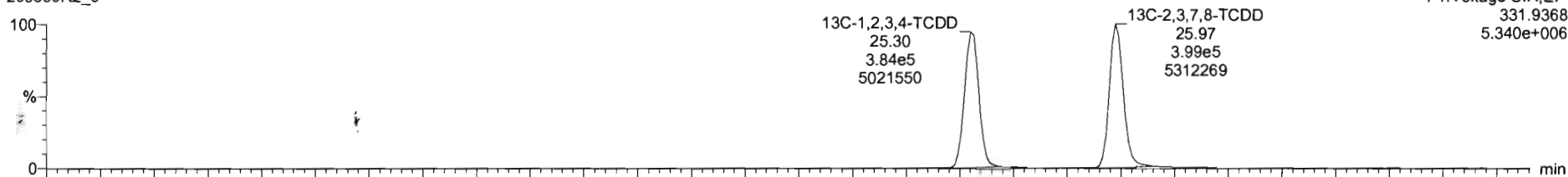
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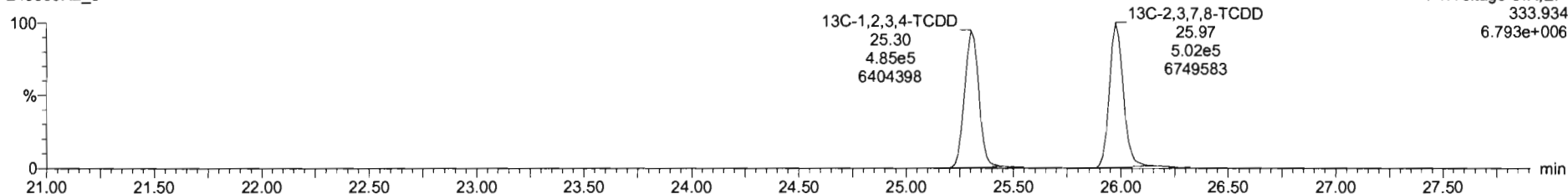


**13C-1,2,3,4-TCDD**

200506R2\_6



200506R2\_6



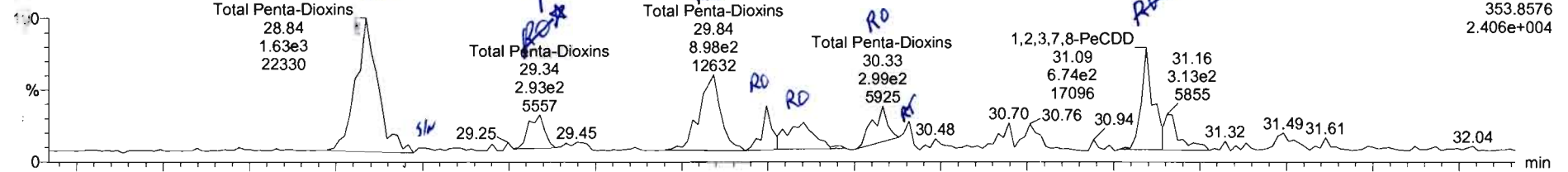
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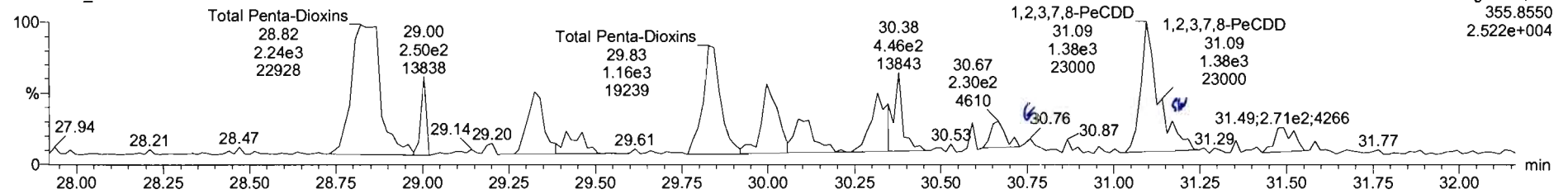
1,2,3,7,8-PeCDD

200506R2\_6



F2:Voltage SIR,EI+  
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2.406e+004

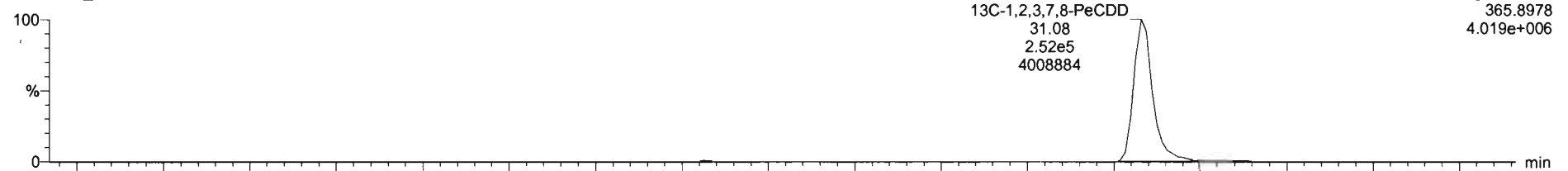
200506R2\_6



F2:Voltage SIR,EI+  
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2.522e+004

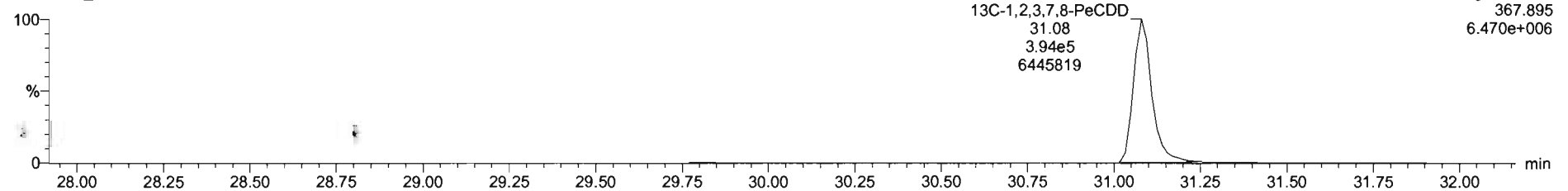
13C-1,2,3,7,8-PeCDD

200506R2\_6



F2:Voltage SIR,EI+  
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4.019e+006

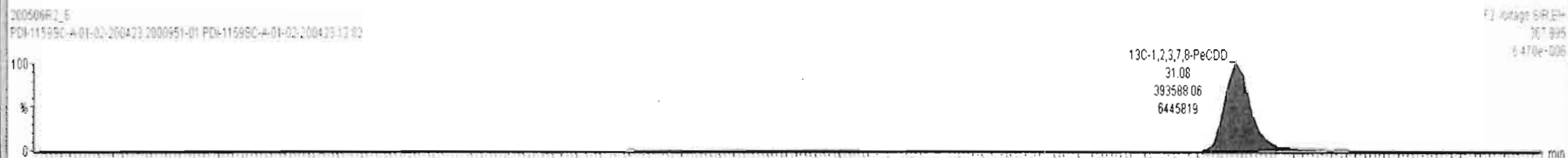
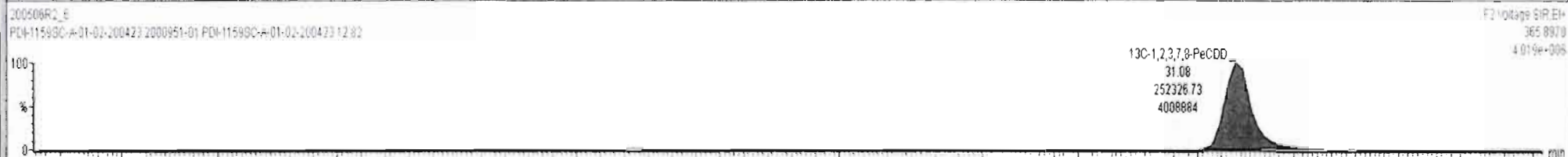
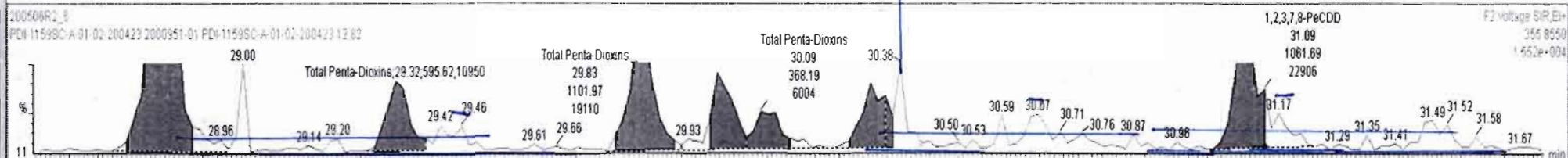
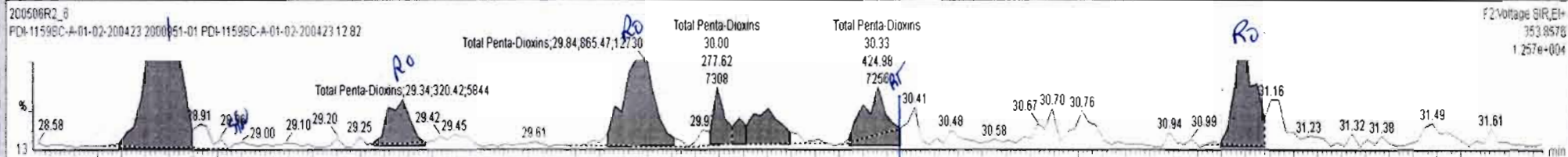
200506R2\_6



F2:Voltage SIR,EI+  
367.895  
6.470e+006

Name	Conc.	DL	%Rec	EMPC	Abs Resp	RRF	RT	#	IS#	RA	Y/N	RRT	Acq Date	Acq Time	1° Chr.Noise	ID	Sample Text	Factor1	SM	Cal File
39 Total Tetra-Dioxins	1.57196	0.0978		2.32600		0.947	39						06-May-20	17:28:49		2000951-01	PDI-1159SC-A-0...	0.0	10.3	db5_1...

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC
1 1,2,3,7,8-PeCDD	31.09	1.726e4	2.281e4	6.820e2	1.062e3	0.64	NO	1.744e3	0.557	0.557
2 Total Penta-Dioxins	30.33	7.256e3	1.028e4	4.250e2	5.825e2	0.73	YES	0.000e0	0.000	0.303
3 Total Penta-Dioxins	30.10	4.486e3	6.004e3	2.977e2	3.682e2	0.81	YES	0.000e0	0.000	0.192
4 Total Penta-Dioxins	30.00	7.308e3	1.215e4	2.776e2	5.666e2	0.49	YES	0.000e0	0.000	0.229
5 Total Penta-Dioxins	29.84	1.273e4	1.911e4	8.655e2	1.102e3	0.79	YES	0.000e0	0.000	0.574
6 Total Penta-Dioxins	29.34	5.844e3	1.095e4	3.204e2	5.956e2	0.54	NO	9.160e2	0.293	0.293
7 Total Penta-Dioxins	28.84	2.244e4	2.294e4	1.512e3	2.048e3	0.74	YES	0.000e0	0.000	1.07



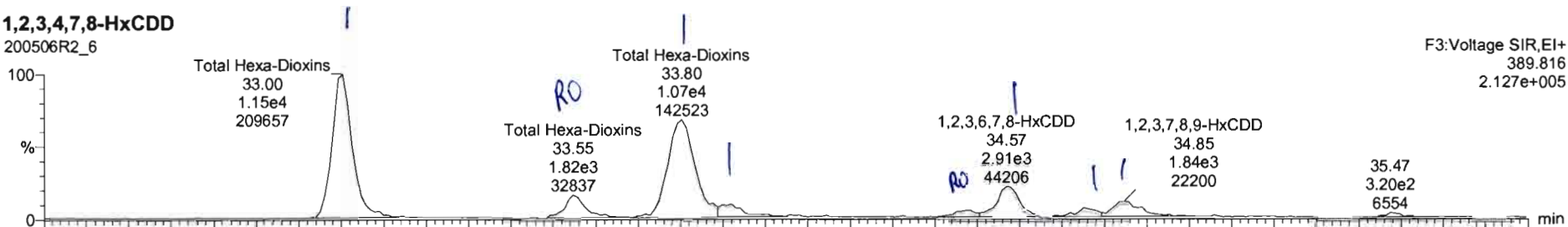
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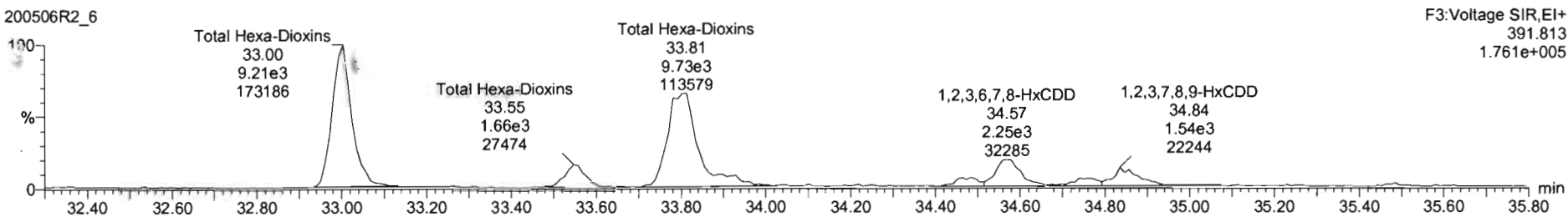
1,2,3,4,7,8-HxCDD

200506R2\_6



F3: Voltage SIR, EI+  
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2.127e+005

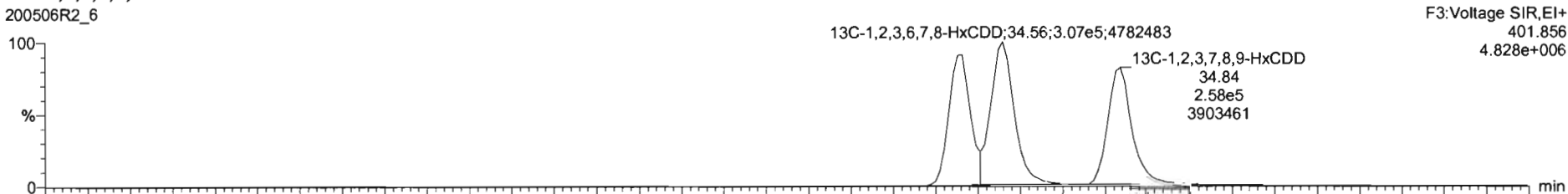
200506R2\_6



F3: Voltage SIR, EI+  
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1.761e+005

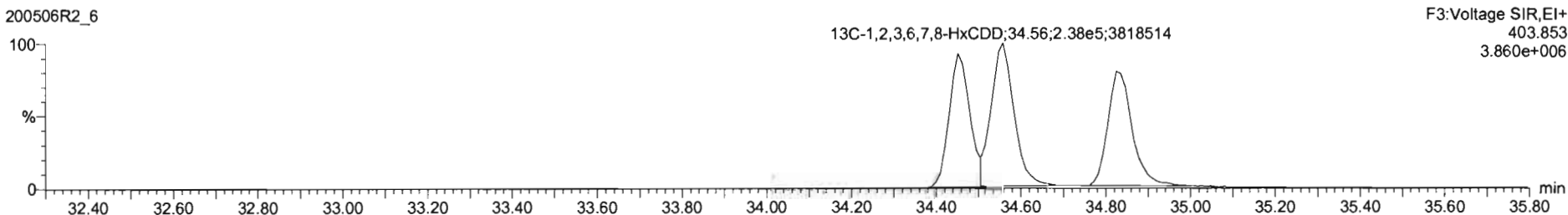
13C-1,2,3,4,7,8-HxCDD

200506R2\_6



F3: Voltage SIR, EI+  
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4.828e+006

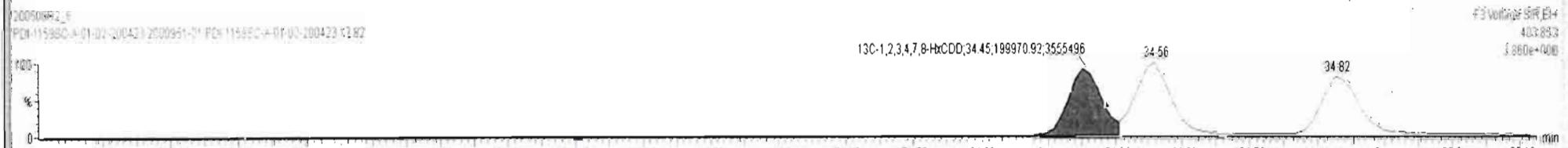
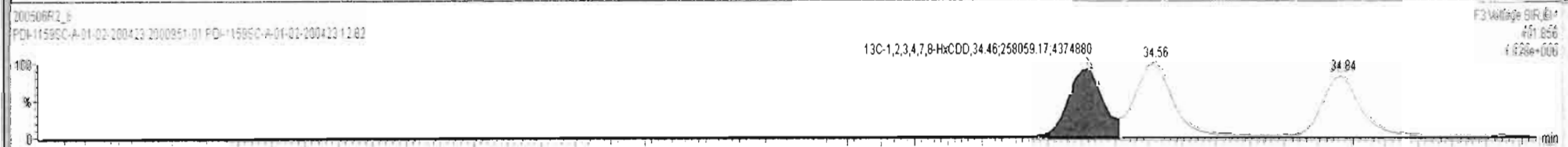
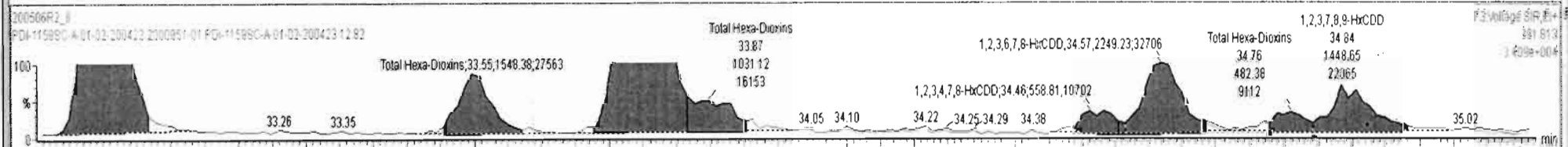
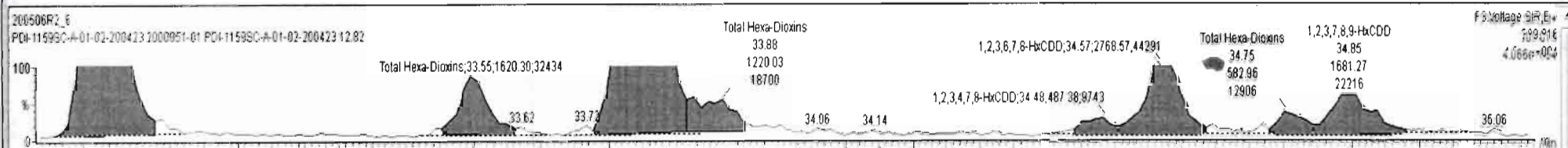
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F3: Voltage SIR, EI+  
403.853  
3.860e+006

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41 Total Hexa-Dioxins	21.8335	0.235		23.4598		0.915	41						06-May-20	17:28:49		2000951-01...	PDI-1159SC-A-0...	0.0	10.3	db5_1...
42 Total Hepta-Dioxins	183.711	0.607		185.221		0.898	42						06-May-20	17:28:49		2000951-01...	PDI-1159SC-A-0...	0.0	10.3	db5_1...
43 Total Tetra-Furans	53.7024	0.275		55.4343		0.787	43						06-May-20	17:28:49		2000951-01...	PDI-1159SC-A-0...	0.0	10.3	db5_1...
44 1st Func. Penta-Furans	4.67248	0.0471		4.67248		0.910	44						06-May-20	17:28:49		2000951-01...	PDI-1159SC-A-0...	0.0	10.3	db5_1...

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC
1 Total Hexa-Dioxins	33.00	2.099e5	1.733e5	1.138e4	9.083e3	1.25	NO	2.047e4	8.92	8.92
2 Total Hexa-Dioxins	33.55	3.243e4	2.756e4	1.620e3	1.548e3	1.05	YES	0.000e0	0.000	1.26
3 Total Hexa-Dioxins	33.80	1.419e5	1.132e5	1.010e4	8.435e3	1.20	NO	1.853e4	8.07	8.07
4 Total Hexa-Dioxins	33.88	1.870e4	1.615e4	1.220e3	1.031e3	1.18	NO	2.251e3	0.981	0.981
5 1,2,3,4,7,8-HxCDD	34.48	9.743e3	1.070e4	4.874e2	5.588e2	0.87	YES	1.046e3	0.000	0.351
6 1,2,3,6,7,8-HxCDD	34.57	4.429e4	3.271e4	2.769e3	2.249e3	1.23	NO	5.018e3	1.96	1.96
7 Total Hexa-Dioxins	34.75	1.291e4	9.112e3	5.830e2	4.824e2	1.21	NO	1.065e3	0.464	0.464
8 1,2,3,7,8,9-HxCDD	34.85	2.222e4	2.207e4	1.681e3	1.449e3	1.16	NO	3.130e3	1.44	1.44



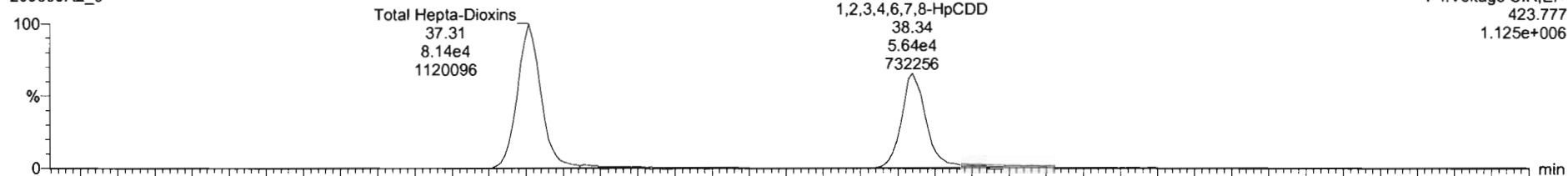
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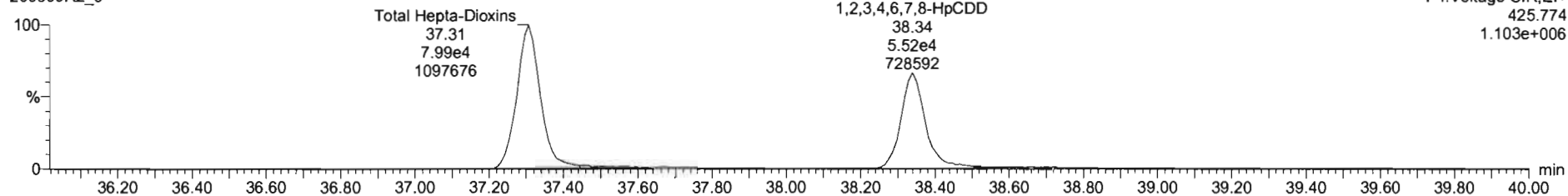
Name: 200506R2\_6, Date: 06-May-2020, Time: 17:28:49, ID: 2000951-01 PDI-1159SC-A-01-02-200423 12.82, Description: PDI-1159SC-A-01-02-200423

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

200506R2\_6

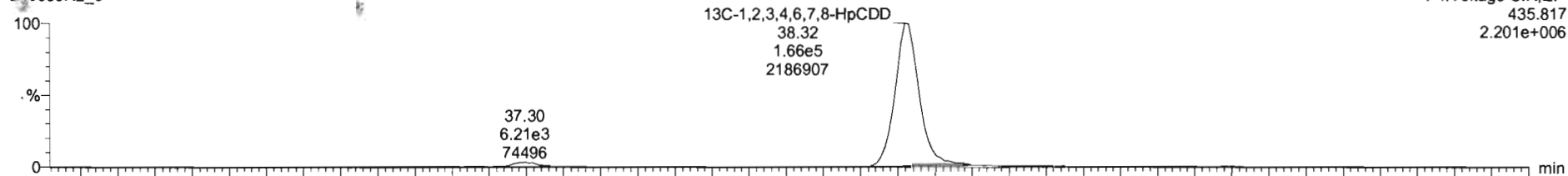


200506R2\_6

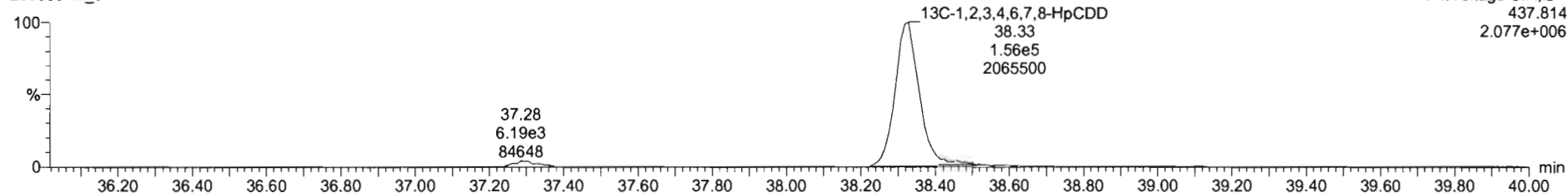


13C-1,2,3,4,6,7,8-HpCDD

200506R2\_6



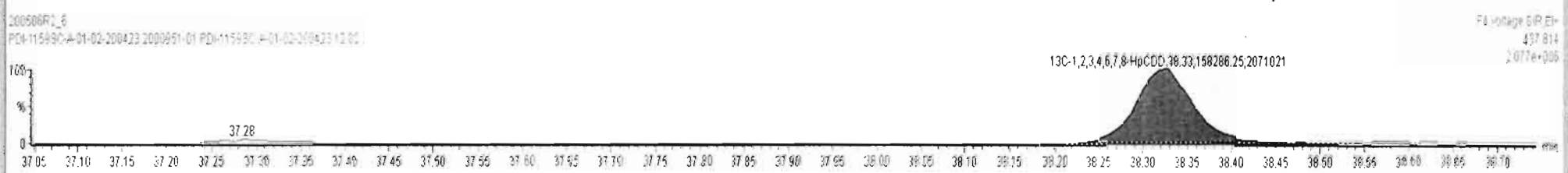
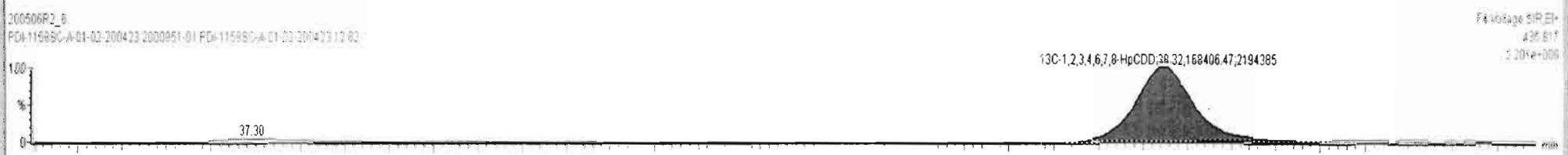
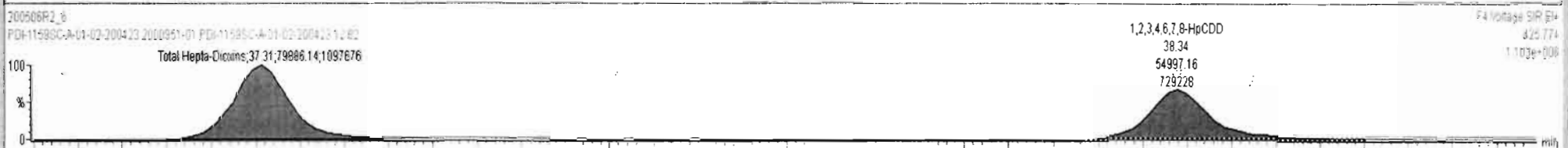
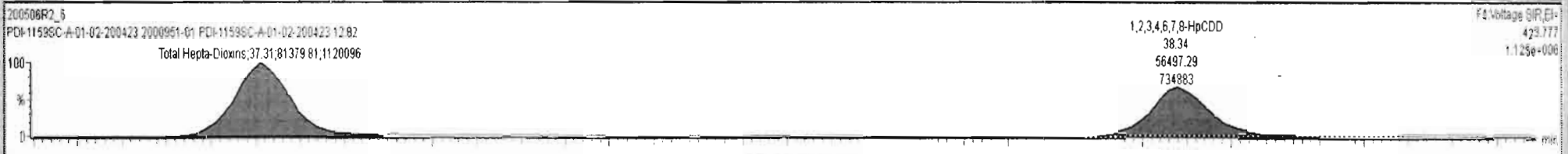
200506R2\_6



200506R2\_6 - 2000951-01 PDI-1159SC-A-01-02-200423 12.82 - PDI-1159SC-A-01-02-200423

Name	Conc.	DL	%Rec	EMPC	Abs.Resp	RRF	RT	#	ISF	RA	Y/N	RRT	Acq.Date	Acq.Time	1° Chr.Noise	ID	Sample Text	Factor1	SM	Cal.File
41 Total Hexa-Dioxins	21.8335	0.235		23.4598		0.915	41						06-May-20	17:28:49		2000951-01...	PDI-1159SC-A-0...	0.0	10.3	dx6_1...
42 Total Hepta-Dioxins	180.791	0.606		180.791		0.898	42						06-May-20	17:28:49		2000951-01...	PDI-1159SC-A-0...	0.0	10.3	dx6_1...
43 Total Tetra-Furans	53.7024	0.275		55.4343		0.787	43						06-May-20	17:28:49		2000951-01...	PDI-1159SC-A-0...	0.0	10.3	dx6_1...
44 1st Func. Penta-Furans	4.67248	0.0471		4.67248		0.910	44						06-May-20	17:28:49		2000951-01...	PDI-1159SC-A-0...	0.0	10.3	dx6_1...

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC
1 Total Hepta-Dioxins	37.31	1.120e6	1.098e6	8.138e4	7.989e4	1.02	NO	1.613e5	107	107
2 1,2,3,4,6,7,8-HpCDD	38.34	7.349e5	7.292e5	5.650e4	5.500e4	1.03	NO	1.115e5	73.9	73.9

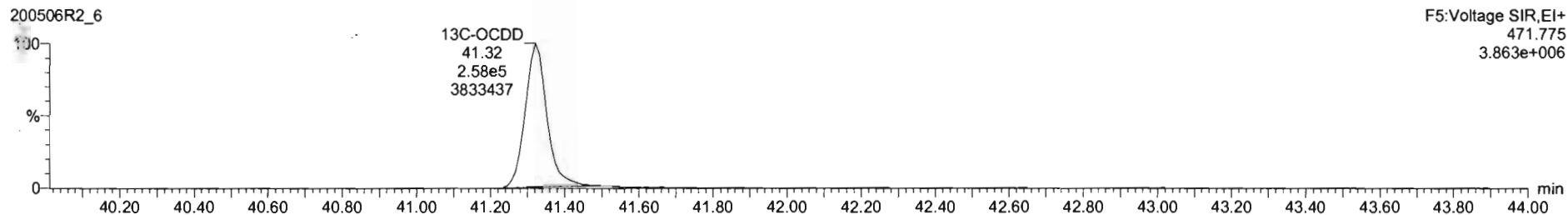
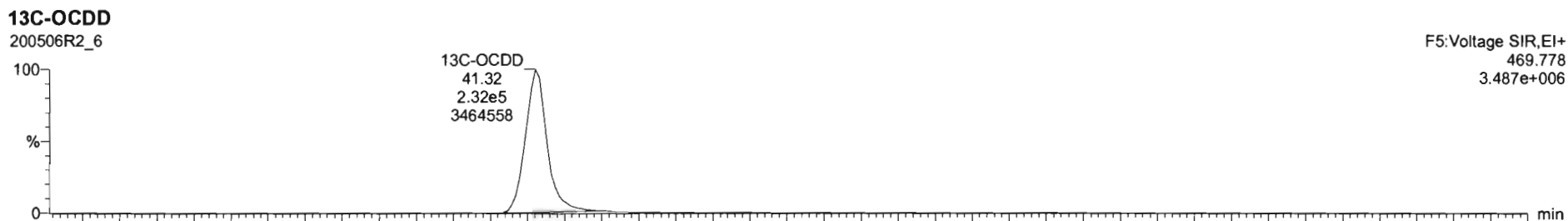
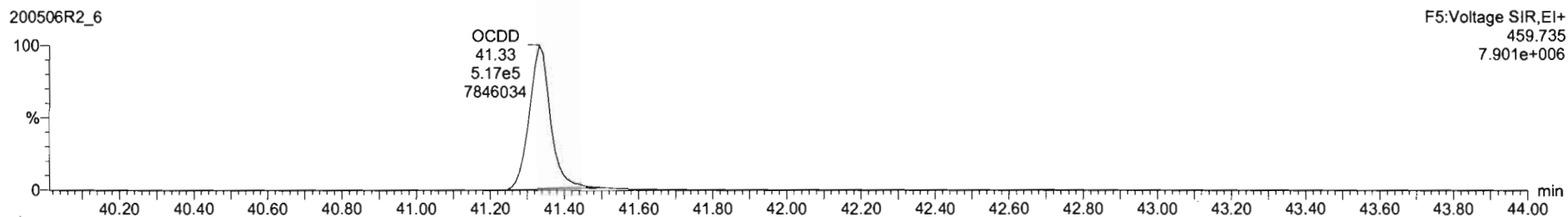
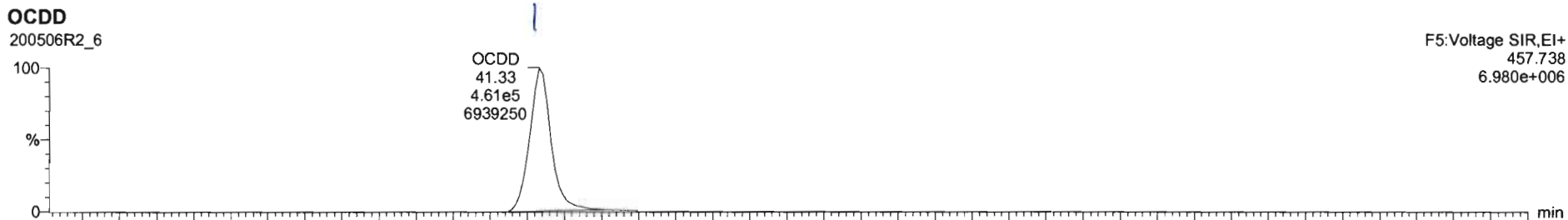


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Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

Name: 200506R2\_6, Date: 06-May-2020, Time: 17:28:49, ID: 2000951-01 PDI-1159SC-A-01-02-200423 12.82, Description: PDI-1159SC-A-01-02-200423



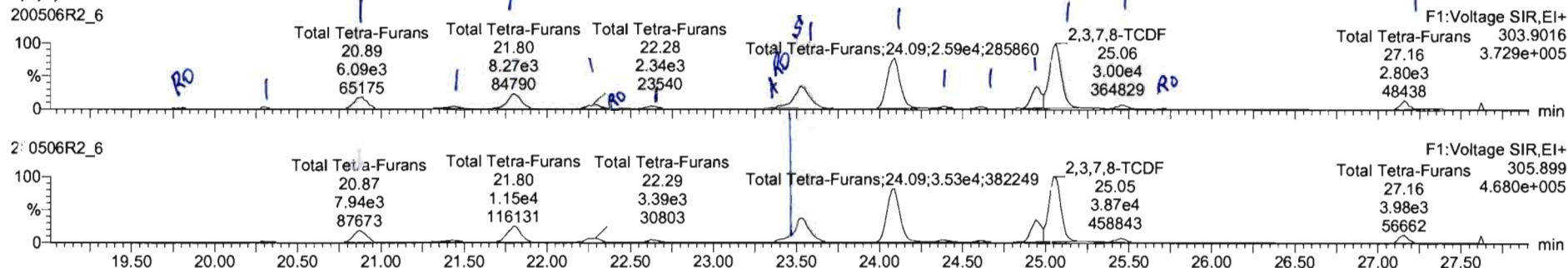


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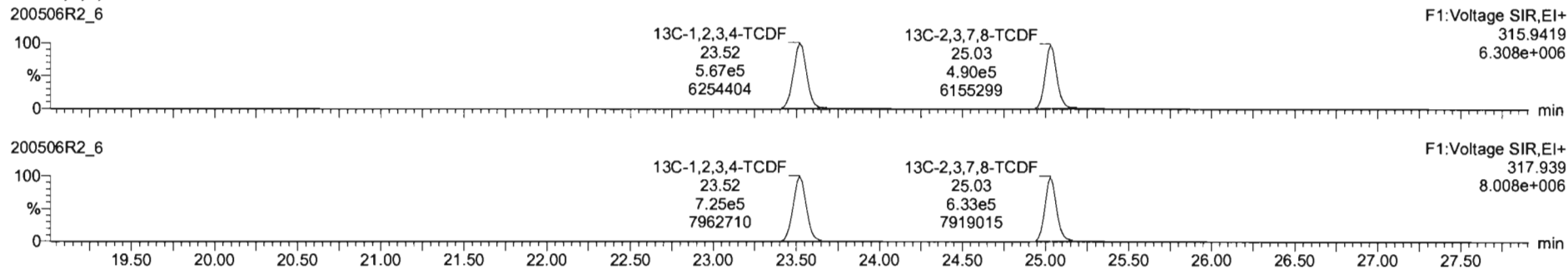
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Name: 200506R2\_6, Date: 06-May-2020, Time: 17:28:49, ID: 2000951-01 PDI-1159SC-A-01-02-200423 12.82, Description: PDI-1159SC-A-01-02-200423

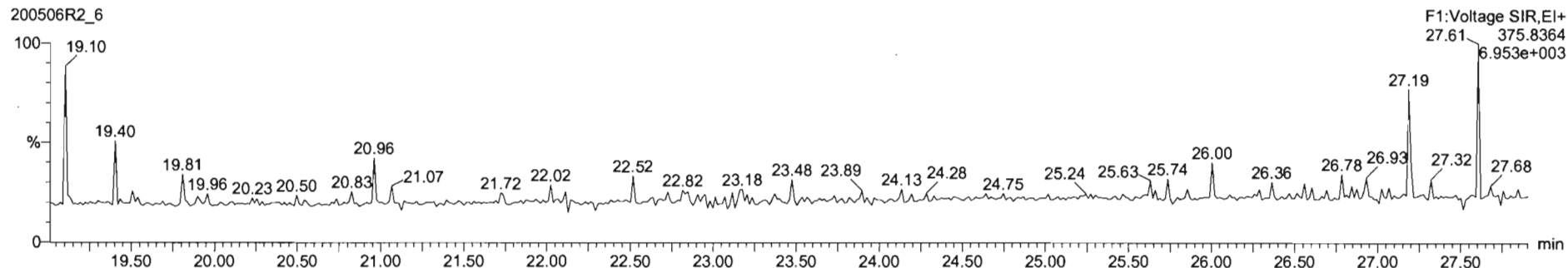
2,3,7,8-TCDF



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

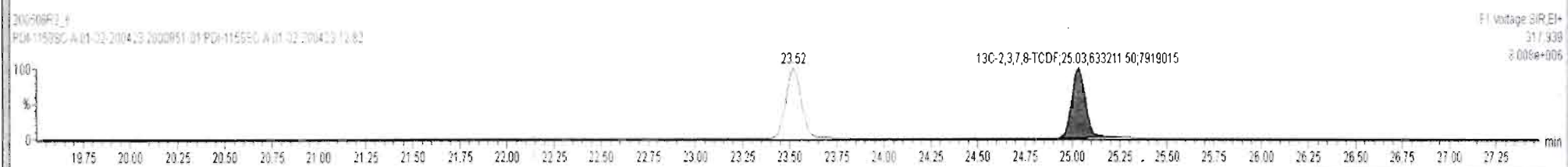
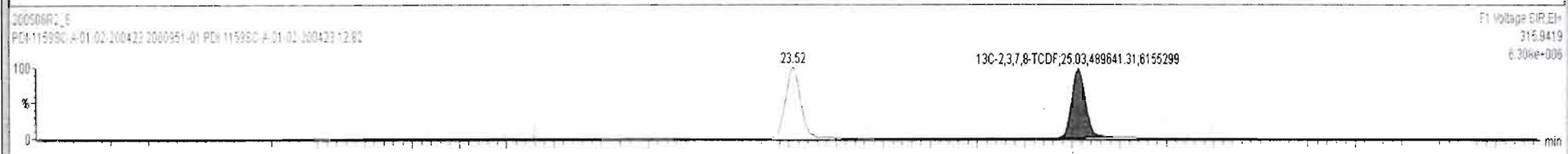
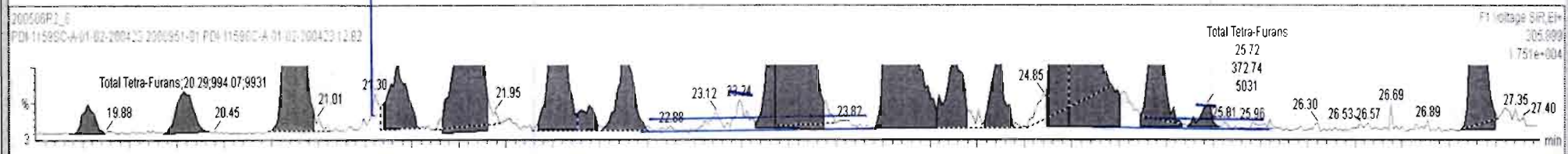
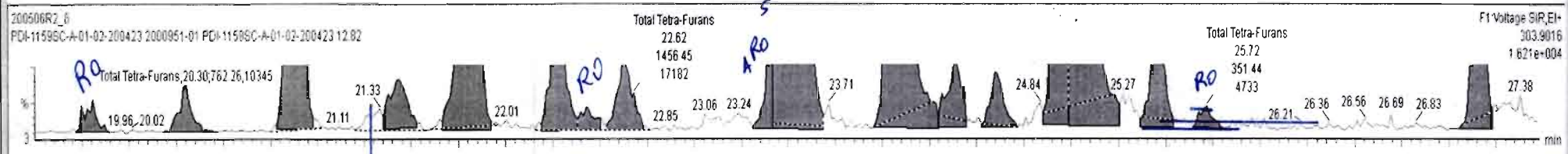


DPE1



Name	Conc.	DL	%Rec	EMPC	Abs.Resp	RRF	RT	#	IS#	RA	Y/N	RRT	Acq.Date	Acq.Time	1° Chr.Noise	ID	Sample Text	Factor1	SM	Cal.File
43 Total Tetra-Furans	55.5914	0.275		56.5422		0.787	43						06-May-20	17:28:49		2000951-01...	PDI-1159SC-A-0...	0.0	10.3	db5_1...

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC
4 Total Tetra-Furans	21.44	1.087e4	1.630e4	1.205e3	1.572e3	0.77	NO	2.777e3	0.611	0.611
5 Total Tetra-Furans	21.80	8.551e4	1.175e5	8.372e3	1.156e4	0.72	NO	1.993e4	4.38	4.38
6 Total Tetra-Furans	22.28	2.369e4	3.064e4	2.330e3	3.329e3	0.70	NO	5.660e3	1.25	1.25
7 Total Tetra-Furans	22.43	5.019e3	5.951e3	4.150e2	4.622e2	0.90	YES	0.000e0	0.000	0.180
8 Total Tetra-Furans	22.62	1.718e4	2.008e4	1.456e3	1.775e3	0.82	NO	3.232e3	0.711	0.711
9 Total Tetra-Furans	23.40	1.795e4	2.749e4	8.520e2	1.416e3	0.60	YES	0.000e0	0.000	0.431
10 Total Tetra-Furans	23.52	1.283e5	1.720e5	1.457e4	1.914e4	0.76	NO	3.370e4	7.41	7.41
11 Total Tetra-Furans	24.09	2.883e5	3.822e5	2.691e4	3.527e4	0.76	NO	6.217e4	13.7	13.7
12 Total Tetra-Furans	24.39	1.433e4	1.737e4	1.335e3	1.753e3	0.76	NO	3.088e3	0.679	0.679
13 Total Tetra-Furans	24.60	1.219e4	1.526e4	9.913e2	1.312e3	0.76	NO	2.304e3	0.507	0.507
14 Total Tetra-Furans	24.94	1.259e5	1.620e5	8.978e3	1.140e4	0.79	NO	2.037e4	4.48	4.48
15 2,3,7,8-TCDF	25.06	3.700e5	4.648e5	3.157e4	4.063e4	0.78	NO	7.220e4	15.9	15.9
16 Total Tetra-Furans	25.45	2.245e4	3.008e4	1.898e3	2.484e3	0.76	NO	4.382e3	0.964	0.964
17 Total Tetra-Furans	25.72	4.733e3	5.031e3	3.514e2	3.727e2	0.94	YES	0.000e0	0.000	0.145
18 Total Tetra-Furans	27.16	5.095e4	5.783e4	3.177e3	4.173e3	0.76	NO	7.350e3	1.62	1.62



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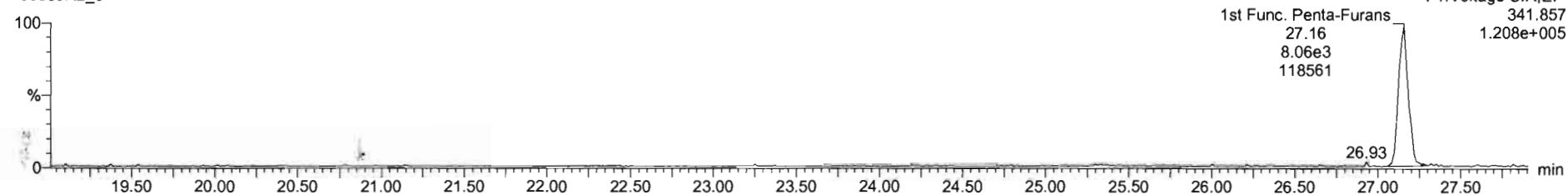
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1st Func. Penta-Furans

200506R2\_6

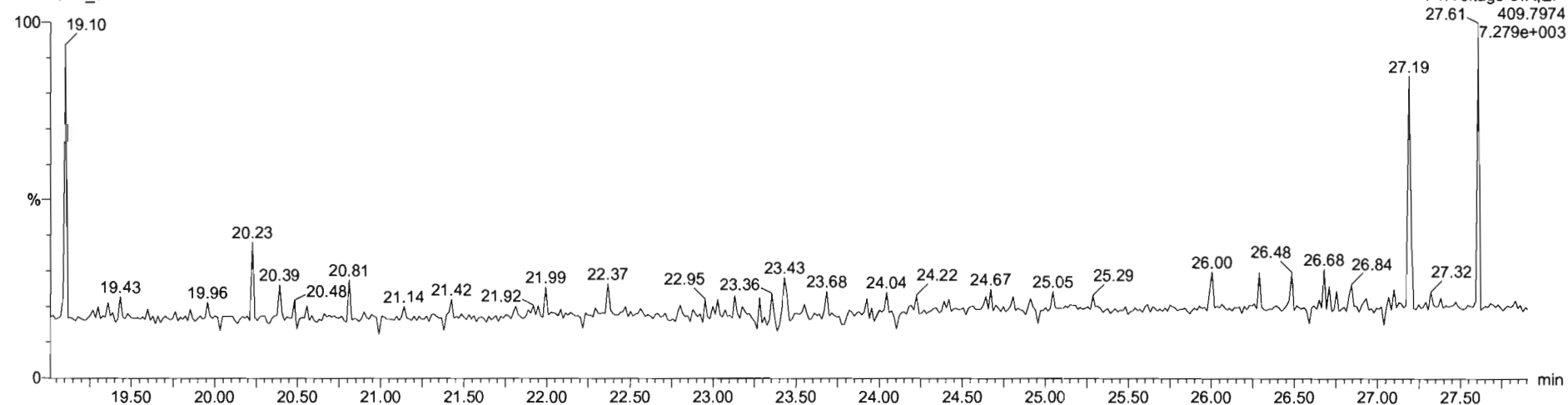


200506R2\_6



DPE6

200506R2\_6

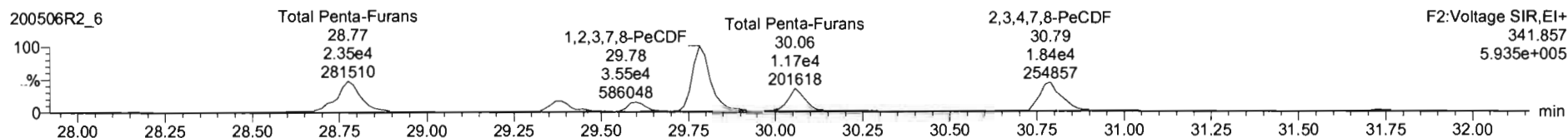
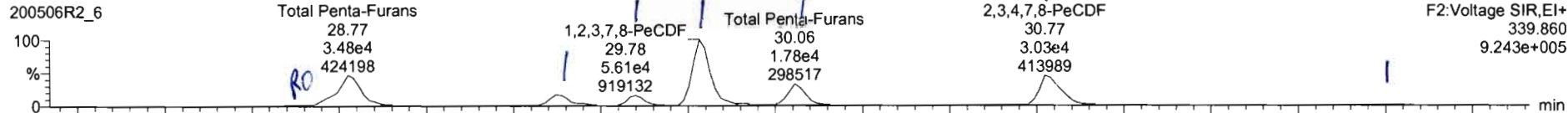


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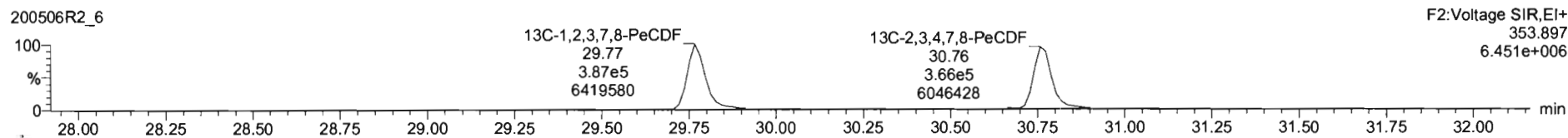
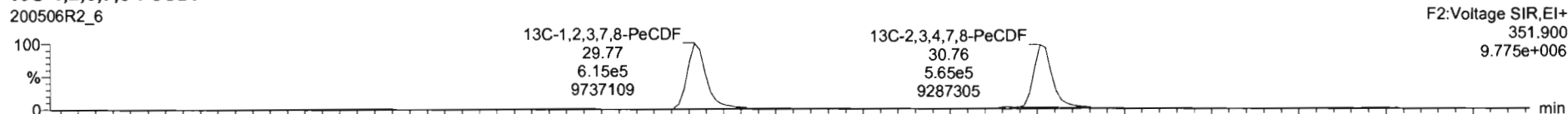
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Name: 200506R2\_6, Date: 06-May-2020, Time: 17:28:49, ID: 2000951-01 PDI-1159SC-A-01-02-200423 12.82, Description: PDI-1159SC-A-01-02-200423

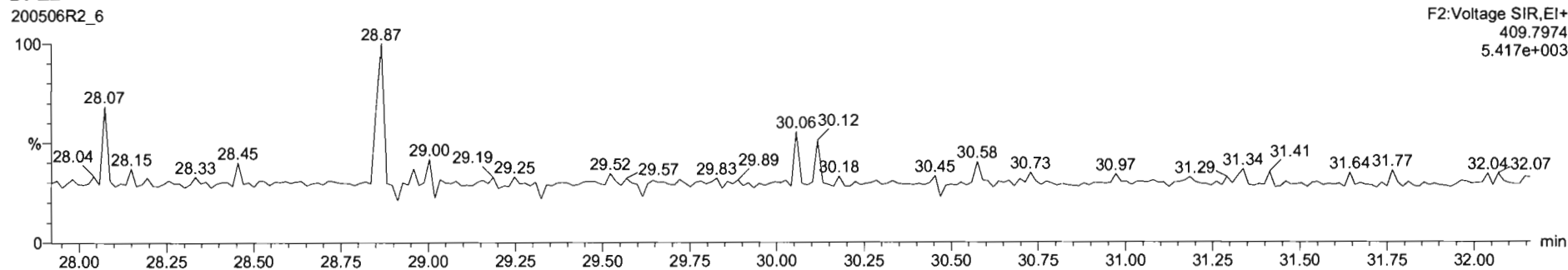
**1,2,3,7,8-PeCDF**



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

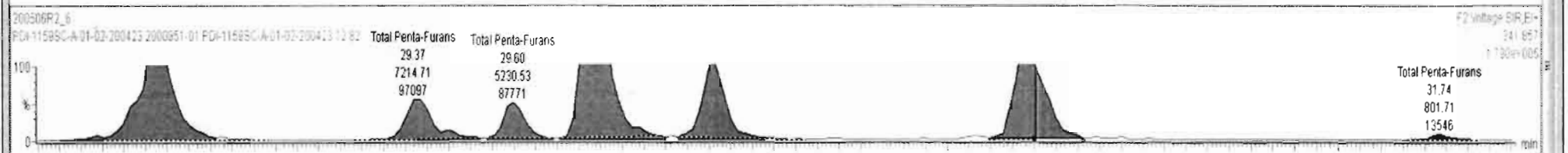
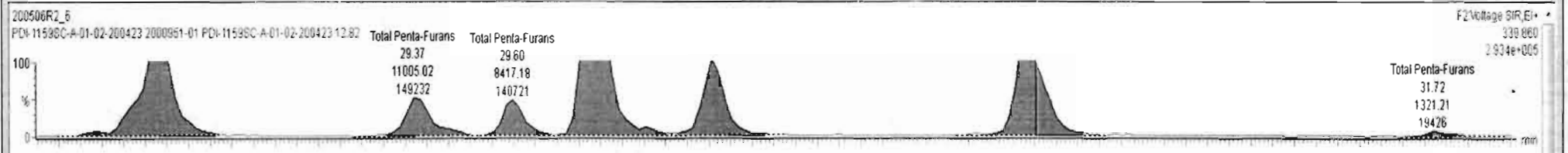


**DPE2**



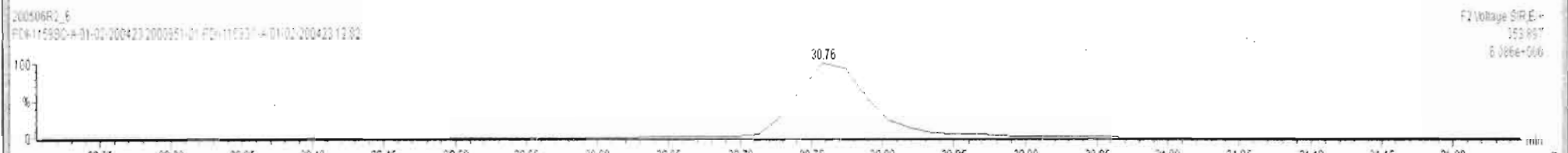
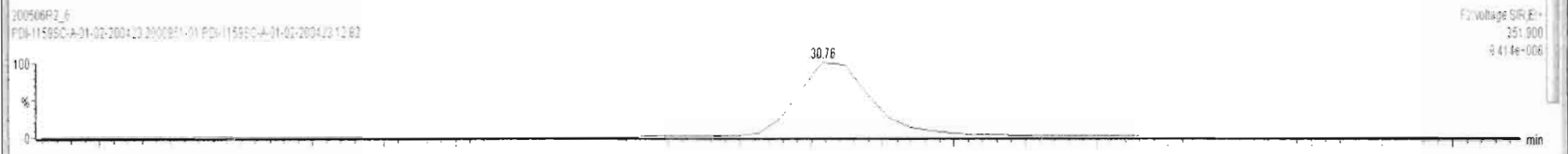
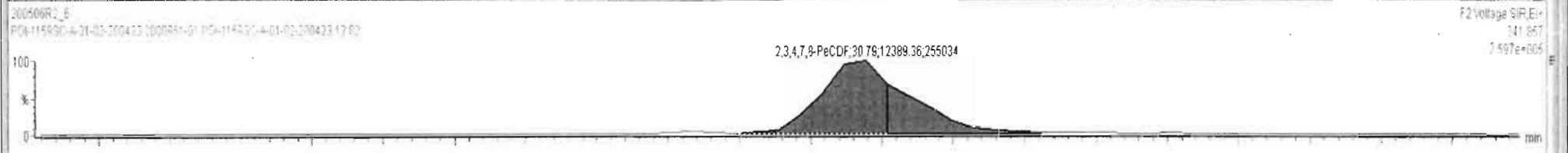
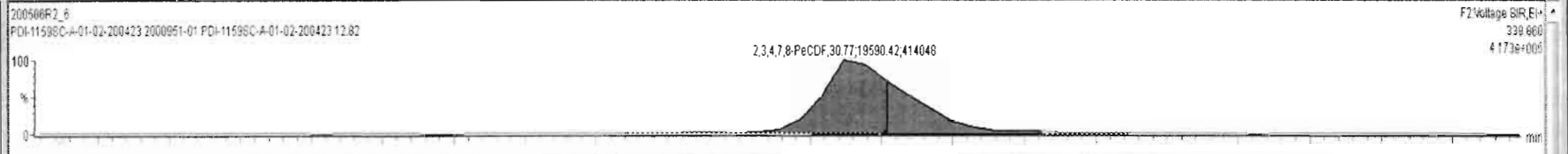
Name	Conc.	DL	%Rec	EMPC	Abs Resp	RRF	RT	#	IS#	RA	Y/N	RR1	Acq.Date	Acq.Time	1° Ctr.Noise	ID	Sample Text	Factor1	S/M	Cal File
45	Total Penta-Furans	57.5461	0.180		57.8019		0.910						06-May-20	17:28:49		2000951-01...	PDI-1159SC-A-0...	0.0	10.3	abs_1...

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	
1	Total Penta-Furans	28.64	2.122e4	1.295e4	8.434e2	4.503e2	1.67	YES	0.000e0	0.000	0.254
2	Total Penta-Furans	28.77	4.279e5	2.817e5	3.574e4	2.322e4	1.54	NO	5.896e4	13.0	13.0
3	Total Penta-Furans	29.37	1.492e5	9.710e4	1.101e4	7.215e3	1.53	NO	1.822e4	4.03	4.03
4	Total Penta-Furans	29.60	1.407e5	8.777e4	8.417e3	5.231e3	1.61	NO	1.365e4	3.02	3.02
5	1,2,3,7,8-PeCDF	29.78	9.215e5	5.901e5	5.654e4	3.672e4	1.54	NO	9.325e4	19.9	19.9
6	Total Penta-Furans	30.06	3.017e5	2.043e5	1.824e4	1.191e4	1.53	NO	3.016e4	6.66	6.66
7	2,3,4,7,8-PeCDF	30.77	4.140e5	2.550e5	1.959e4	1.239e4	1.58	NO	3.198e4	6.91	6.91
8	Total Penta-Furans	30.80	2.967e5	1.725e5	9.580e3	6.093e3	1.64	NO	1.607e4	3.55	3.55
9	Total Penta-Furans	31.72	1.943e4	1.355e4	1.321e3	8.017e2	1.65	NO	2.123e3	0.469	0.469



Name	Conc	DL	%Rec	EMPC	Abs Resp	RRF	RT	#	IS#	RA	Y/N	RRT	Acq Date	Acq Time	1° ChrNoise	ID	Sample Text	Factor1	SM	Cal File
45 Total Penta-Furans	57.5481	0.180		57.8019		0.910	45						06-May-20	17:28:49		2000951-01...	PDI-1159SC-A-0...	0.0	10.3	db5_1...

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC
1 Total Penta-Furans	28.64	2.122e4	1.295e4	8.434e2	4.503e2	1.87	YES	0.000e0	0.000	0.254
2 Total Penta-Furans	28.77	4.279e5	2.817e5	3.574e4	2.322e4	1.54	NO	5.896e4	13.0	13.0
3 Total Penta-Furans	29.37	1.492e5	9.710e4	1.101e4	7.215e3	1.53	NO	1.822e4	4.03	4.03
4 Total Penta-Furans	29.60	1.407e5	8.777e4	8.417e3	5.231e3	1.61	NO	1.365e4	3.02	3.02
5 1,2,3,7,8-PeCDF	29.78	9.215e5	5.901e5	5.854e4	3.672e4	1.54	NO	9.325e4	19.9	19.9
6 Total Penta-Furans	30.06	3.017e5	2.043e5	1.824e4	1.191e4	1.53	NO	3.016e4	6.66	6.66
7 2,3,4,7,8-PeCDF	30.77	4.140e5	2.550e5	1.959e4	1.239e4	1.58	NO	3.198e4	6.91	6.91
8 Total Penta-Furans	30.80	2.967e5	1.725e5	9.980e3	6.093e3	1.64	NO	1.607e4	3.55	3.55
9 Total Penta-Furans	31.72	1.943e4	1.355e4	1.321e3	8.017e2	1.65	NO	2.123e3	0.469	0.469

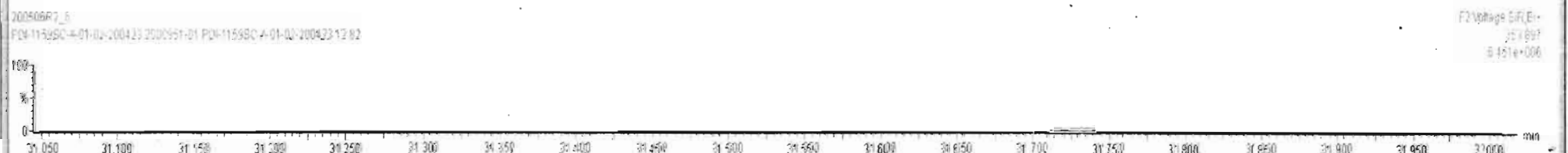
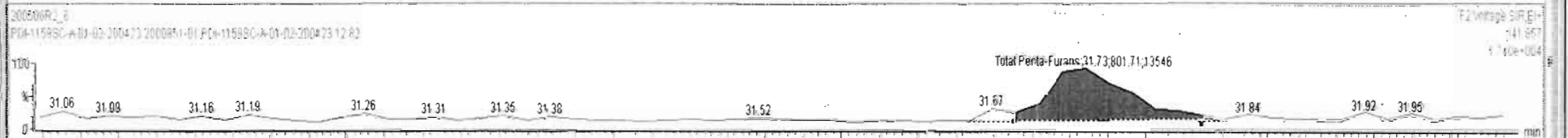
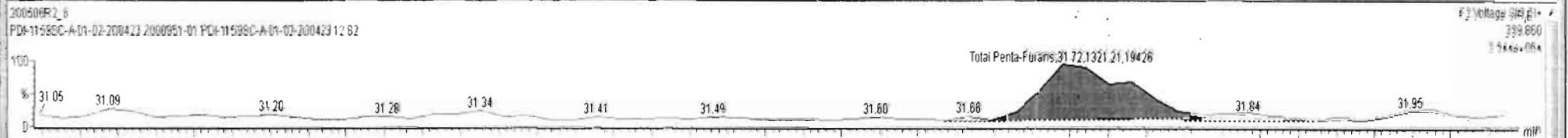




200506R2\_6 - 2000951-01 PDI-1159SC-A-01-02-200423 12 32 - PDI-1159SC-A-01-02-200423

Name	Conc.	DL	%Rec	EMPC	Abs Resp	RRF	RT	#	IS#	RA	YN	RR1	Acq Date	Acq Time	1° Chy Noise	ID	Sample Text	Factor1	SM	Cal File	
45 Total Penta-Furans	57.5949	0.180		57.8487		0.910	45						06-May-20	17:26:49		2000951-01...	PDI-1159SC-A-0...	0.0	10.3	db5_1...	
46 Total Hexa-Furans	76.2015	0.208		76.3554		0.922	46						06-May-20	17:26:49		2000951-01...	PDI-1159SC-A-0...	0.0	10.3	db5_1...	
47 Total Hepta-Furans	62.6061	0.263		62.6061		0.871	47						06-May-20	17:26:49		2000951-01...	PDI-1159SC-A-0...	0.0	10.3	db5_1...	
48 PFK1							48												1		
49 PFK2							49												1		
50 PFK3							50												1		
51 PFK4							51												1		

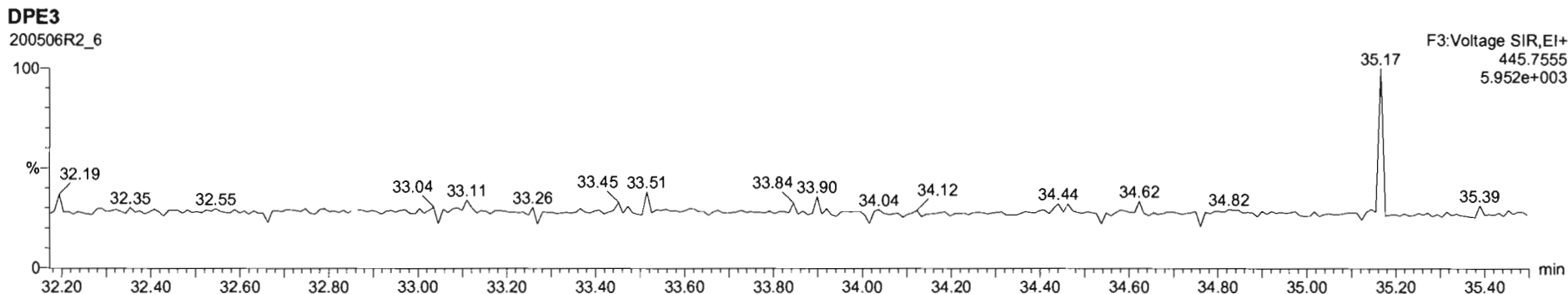
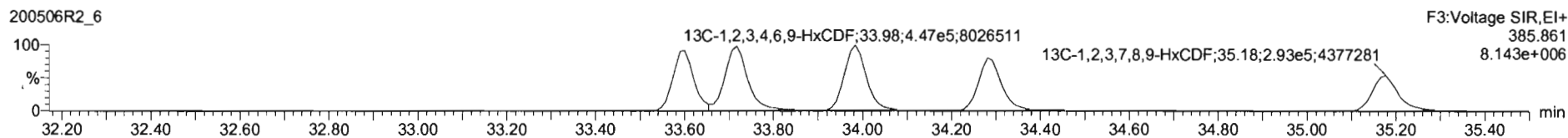
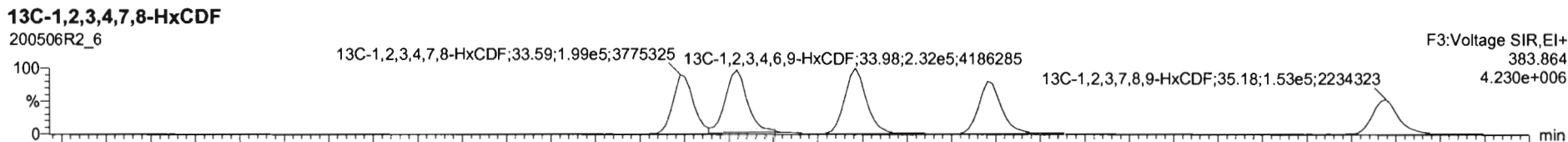
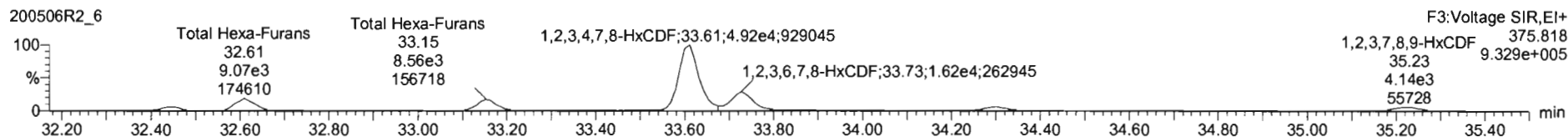
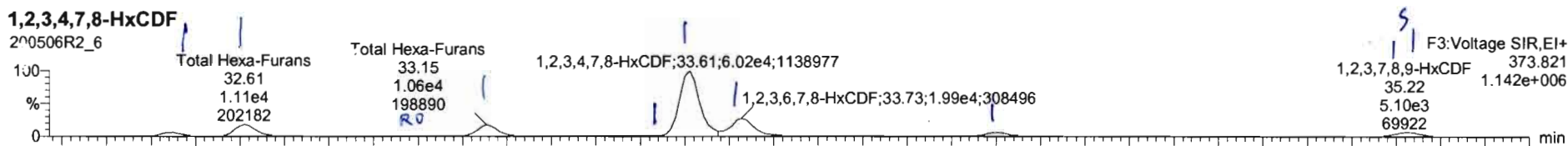
Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC
1 Total Penta-Furans	28.64	2.122e4	1.285e4	8.434e2	4.503e2	1.87	YES	0.000e0	0.000	0.254
2 Total Penta-Furans	28.77	4.279e5	2.817e5	3.574e4	2.322e4	1.54	NO	5.896e4	13.0	13.0
3 Total Penta-Furans	29.37	1.482e5	9.710e4	1.101e4	7.215e3	1.53	NO	1.822e4	4.03	4.03
4 Total Penta-Furans	29.60	1.407e5	8.777e4	8.417e3	5.231e3	1.61	NO	1.365e4	3.02	3.02
5 1,2,3,7,8-PeCDF	29.78	9.215e5	5.901e5	5.654e4	3.672e4	1.54	NO	9.325e4	19.9	19.9
6 Total Penta-Furans	30.06	3.017e5	2.043e5	1.824e4	1.191e4	1.53	NO	3.016e4	6.66	6.66
7 2,3,4,7,8-PeCDF	30.77	4.140e5	2.563e5	1.433e4	9.180e3	1.56	NO	2.352e4	5.08	5.08
8 Total Penta-Furans	30.79	3.868e5	2.547e5	1.522e4	9.335e3	1.63	NO	2.456e4	5.43	5.43
9 Total Penta-Furans	31.72	1.943e4	1.355e4	1.321e3	8.017e2	1.65	NO	2.123e3	0.469	0.469



Dataset: Untitled

Last Altered: Thursday, May 07, 2020 7:18:10 AM Pacific Daylight Time  
Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

Name: 200506R2\_6, Date: 06-May-2020, Time: 17:28:49, ID: 2000951-01 PDI-1159SC-A-01-02-200423 12.82, Description: PDI-1159SC-A-01-02-200423

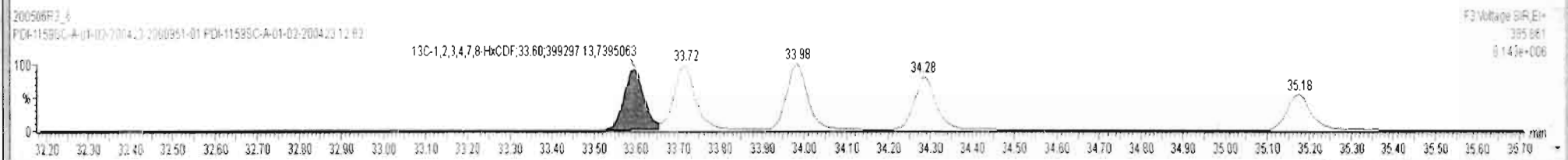
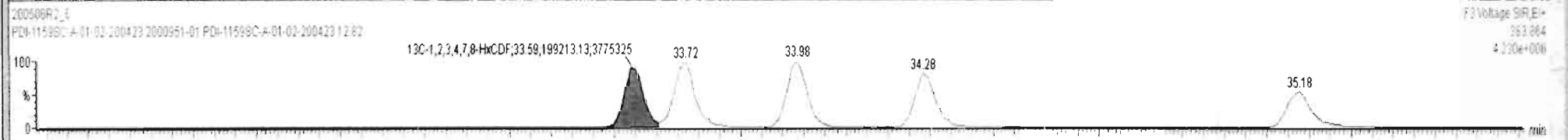
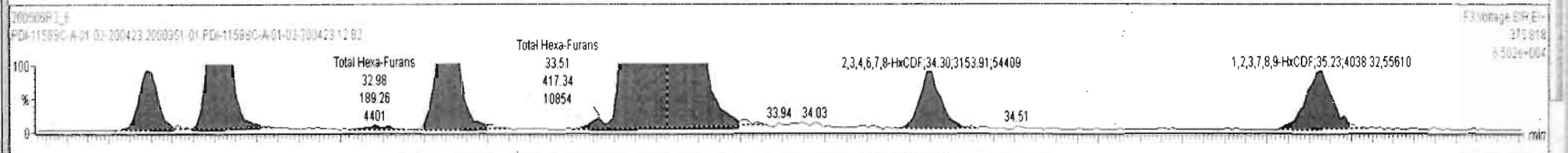
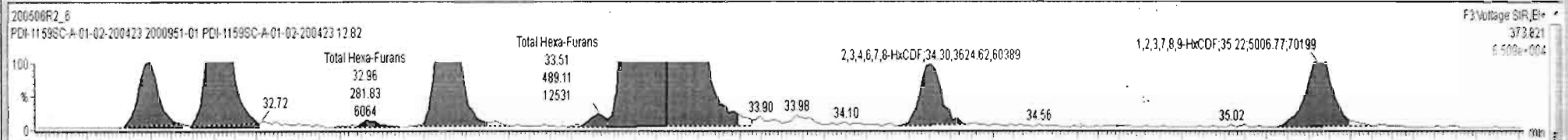




200506R2\_6 - 2000951-01 PDI-1159SC-A-01-02-200423 12 82 - PDI-1159SC-A-01-02-200423

Name	Conc.	DL	%Rec	EMPC	Abs.Resp	RRF	RT	#	IS#	RA	YN	RRT	Acq.Date	Acq.Time	1° Chr.Noise	ID	Sample Text	Factor1	SM	Cal File	
43 Total Tetra-Furans	55.5914	0.275		56.5422		0.787	43						06-May-20	17:28:49		2000951-01...	PDI-1159SC-A-0...	0.0	10.3	db5_1...	
44 1st Func. Penta-Furans	4.67248	0.0471		4.67248		0.910	44						06-May-20	17:28:49		2000951-01...	PDI-1159SC-A-0...	0.0	10.3	db5_1...	
45 Total Penta-Furans	57.5756	0.180		57.8294		0.910	45						06-May-20	17:28:49		2000951-01...	PDI-1159SC-A-0...	0.0	10.3	db5_1...	
46 Total Hexa-Furans	76.2015	0.208		76.3554		0.922	46						06-May-20	17:28:49		2000951-01...	PDI-1159SC-A-0...	0.0	10.3	db5_1...	
47 Total Hepta-Furans	62.2530	0.263		62.2530		0.871	47						06-May-20	17:28:49		2000951-01...	PDI-1159SC-A-0...	0.0	10.3	db5_1...	
48 PFK1							48												1		
49 PFK2							49												1		

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	rly	Resp	Conc.	EMPC
1 Total Hexa-Furans	32.45	6.367e4	5.741e4	3.655e3	2.981e3	1.22	NO	6.645e3	2.41	2.41
2 Total Hexa-Furans	32.61	2.046e5	1.762e5	1.155e4	9.296e3	1.24	NO	2.084e4	7.57	7.57
3 Total Hexa-Furans	32.96	6.064e3	4.401e3	2.818e2	1.893e2	1.49	YES	0.000e0	0.000	0.154
4 Total Hexa-Furans	33.15	1.991e5	1.571e5	1.045e4	8.497e3	1.23	NO	1.894e4	6.88	6.88
5 Total Hexa-Furans	33.51	1.253e4	1.085e4	4.891e2	4.173e2	1.17	NO	9.064e2	0.329	0.329
6 1,2,3,4,7,8-HxCDF	33.61	1.139e6	9.301e5	6.019e4	4.936e4	1.22	NO	1.095e5	40.5	40.5
7 1,2,3,6,7,8-HxCDF	33.73	3.085e5	2.650e5	1.969e4	1.646e4	1.20	NO	3.609e4	11.5	11.5
8 2,3,4,6,7,8-HxCDF	34.30	6.039e4	5.441e4	3.625e3	3.154e3	1.15	NO	6.779e3	2.47	2.47
9 1,2,3,7,8,9-HxCDF	35.22	7.020e4	5.561e4	5.007e3	4.038e3	1.24	NO	9.045e3	4.56	4.56

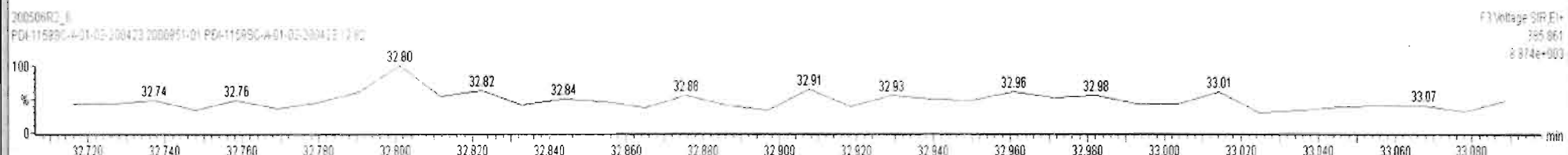
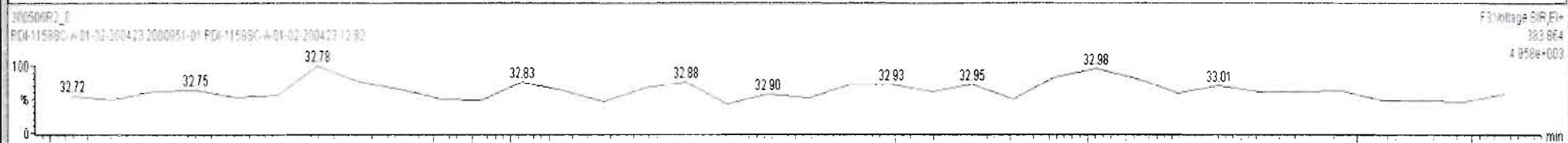
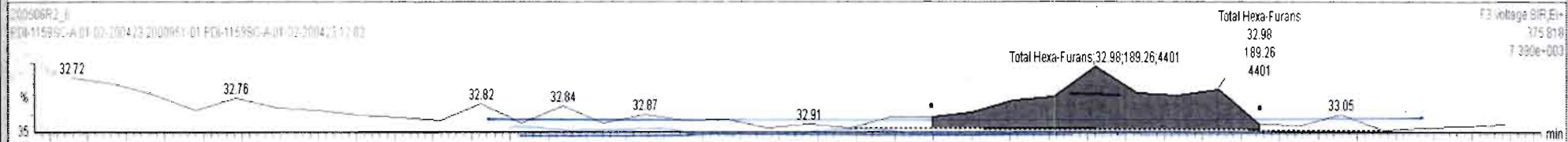
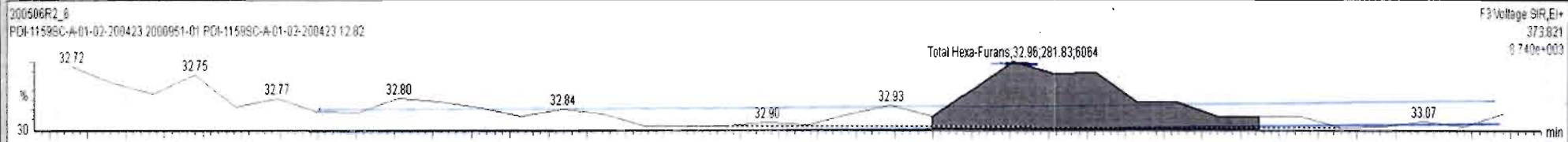




200506R2\_6 - 2000951-01-PDI-1159SC-A-01-02-200423 12.82 - PDI-1159SC-A-01-02-200423

Name	Conc.	DL	%Rec	EMPC	Abs Resp	RRF	RT	#	IS#	RA	YN	RRT	Acq.Date	Acq.Time	1° Chr.Noise	ID	Sample Text	Factor1	SM	Cal File	
43 Total Tetra-Furans	55.5914	0.275		56.5422		0.787	43						06-May-20	17:28:49		2000951-01...	PDI-1159SC-A-0...	0.0	10.3	db6_1...	
44 1st Func. Penta-Furans	4.67248	0.0471		4.67248		0.910	44						06-May-20	17:28:49		2000951-01...	PDI-1159SC-A-0...	0.0	10.3	db6_1...	
45 Total Penta-Furans	57.5756	0.180		57.6294		0.910	45						06-May-20	17:28:49		2000951-01...	PDI-1159SC-A-0...	0.0	10.3	db6_1...	
46 Total Hexa-Furans	76.2015	0.208		76.3554		0.922	46						06-May-20	17:28:49		2000951-01...	PDI-1159SC-A-0...	0.0	10.3	db6_1...	
47 Total Hepta-Furans	62.2530	0.263		62.2530		0.871	47						06-May-20	17:28:49		2000951-01...	PDI-1159SC-A-0...	0.0	10.3	db6_1...	
48 PFK1							48												1		
49 PFK2							49												1		

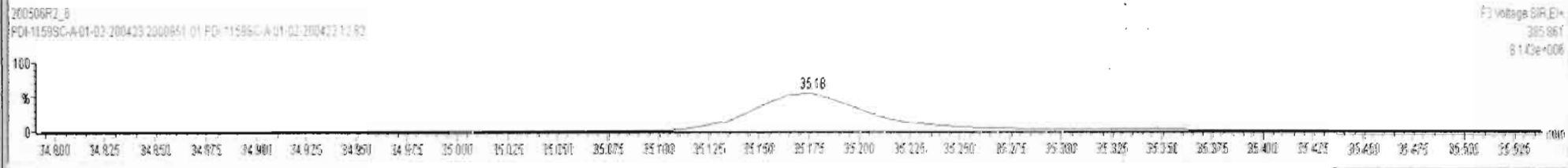
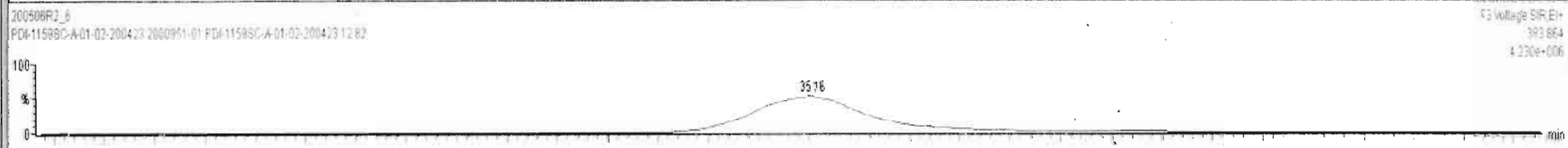
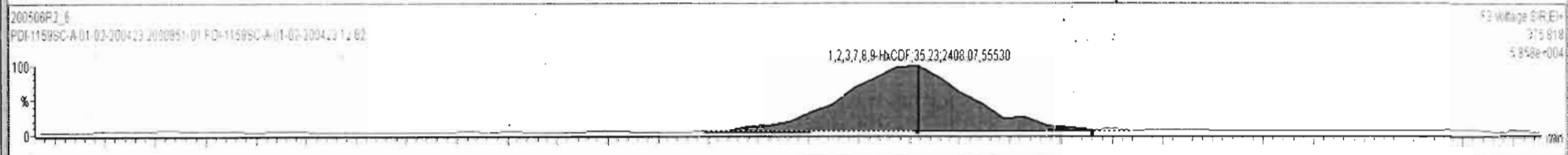
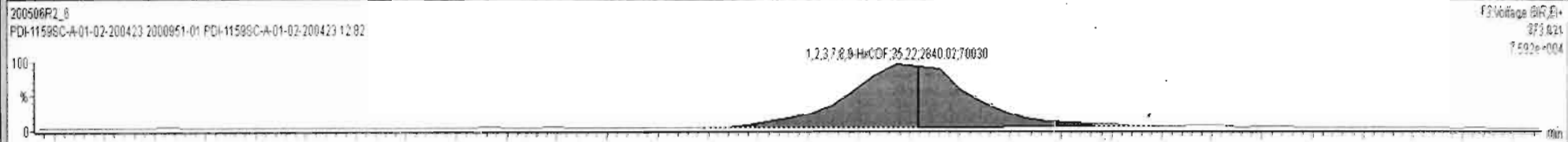
Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC
1 Total Hexa-Furans	32.45	6.367e4	5.741e4	3.655e3	2.991e3	1.22	NO	6.645e3	2.41	2.41
2 Total Hexa-Furans	32.61	2.046e5	1.762e5	1.155e4	9.296e3	1.24	NO	2.084e4	7.57	7.57
3 Total Hexa-Furans	32.96	6.064e3	4.401e3	2.818e2	1.893e2	1.49	YES	0.000e0	0.000	0.154
4 Total Hexa-Furans	33.15	1.991e5	1.571e5	1.045e4	8.497e3	1.23	NO	1.894e4	6.88	6.88
5 Total Hexa-Furans	33.51	1.253e4	1.085e4	4.891e2	4.173e2	1.17	NO	9.064e2	0.329	0.329
6 1,2,3,4,7,8-HxCDF	33.61	1.139e6	9.301e5	6.019e4	4.936e4	1.22	NO	1.085e5	40.5	40.5
7 1,2,3,6,7,8-HxCDF	33.73	3.085e5	2.650e5	1.969e4	1.640e4	1.20	NO	3.609e4	11.5	11.5
8 2,3,4,6,7,8-HxCDF	34.30	6.039e4	5.441e4	3.625e3	3.154e3	1.15	NO	6.779e3	2.47	2.47
9 1,2,3,7,8,9-HxCDF	35.22	7.020e4	5.561e4	5.007e3	4.038e3	1.24	NO	9.045e3	4.56	4.56



200506R2\_6 - 2000951-01 PDI-1159SC-A-01-02-200423 12.82 - PDI-1159SC-A-01-02-200423

Name	Conc.	DL	%Rec	EMPC	Abs Resp	RRF	RT	#	IS#	RA	Y/N	RRT	Acq.Date	Acq.Time	1° Chr.Noise	ID	Sample Text	Factor1	SM	Cal File	
45 Total Penta-Furans	57.5949	0.180		57.8487		0.910	45						06-May-20	17:28:49		2000951-01...	PDI-1159SC-A-0...	0.0	10.3	dt6_1...	
46 Total Hexa-Furans	75.7314	0.208		75.8853		0.922	46						06-May-20	17:28:49		2000951-01...	PDI-1159SC-A-0...	0.0	10.3	dt6_1...	
47 Total Hepta-Furans	62.6061	0.263		62.6061		0.871	47						06-May-20	17:28:49		2000951-01...	PDI-1159SC-A-0...	0.0	10.3	dt6_1...	
48 PFK1							48												1		
49 PFK2							49												1		
50 PFK3							50												1		
51 PFK4							51												1		

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	nly	Resp	Conc.	EMPC
1 Total Hexa-Furans	32.45	6.367e4	5.741e4	3.655e3	2.991e3	1.22	NO	6.645e3	2.41	2.41
2 Total Hexa-Furans	32.61	2.046e5	1.762e5	1.155e4	9.296e3	1.24	NO	2.084e4	7.57	7.57
3 Total Hexa-Furans	32.96	6.064e3	4.401e3	2.818e2	1.893e2	1.49	YES	0.000e0	0.000	0.154
4 Total Hexa-Furans	33.15	1.991e5	1.571e5	1.045e4	8.497e3	1.23	NO	1.894e4	6.88	6.88
5 Total Hexa-Furans	33.51	1.253e4	1.085e4	4.891e2	4.173e2	1.17	NO	9.064e2	0.329	0.329
6 1,2,3,4,7,8-HxCDF	33.61	1.139e6	9.301e5	6.019e4	4.936e4	1.22	NO	1.095e5	40.5	40.5
7 1,2,3,6,7,8-HxCDF	33.73	3.085e5	2.650e5	1.969e4	1.640e4	1.20	NO	3.609e4	11.5	11.5
8 2,3,4,6,7,8-HxCDF	34.30	6.039e4	5.441e4	3.625e3	3.154e3	1.15	NO	6.779e3	2.47	2.47
9 1,2,3,7,8,9-HxCDF	35.22	7.003e4	5.553e4	2.840e3	2.408e3	1.18	NO	5.248e3	2.65	2.65
10 Total Hexa-Furans	35.23	6.800e4	5.586e4	2.244e3	1.740e3	1.29	NO	3.984e3	1.45	1.45



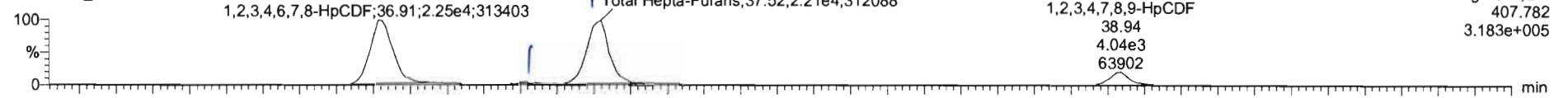
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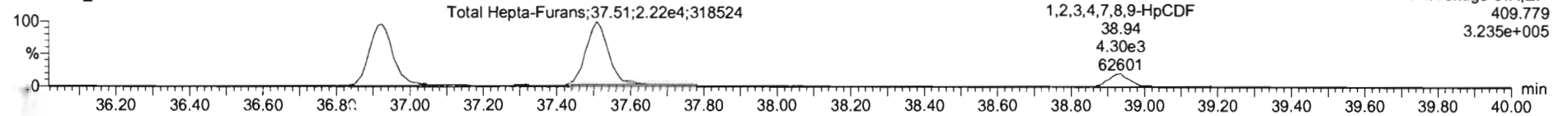
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**1,2,3,4,6,7,8-HpCDF**

200506R2\_6

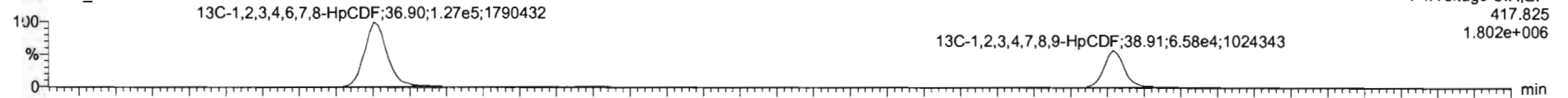


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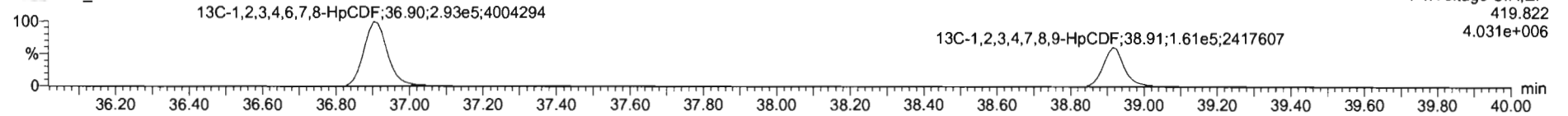


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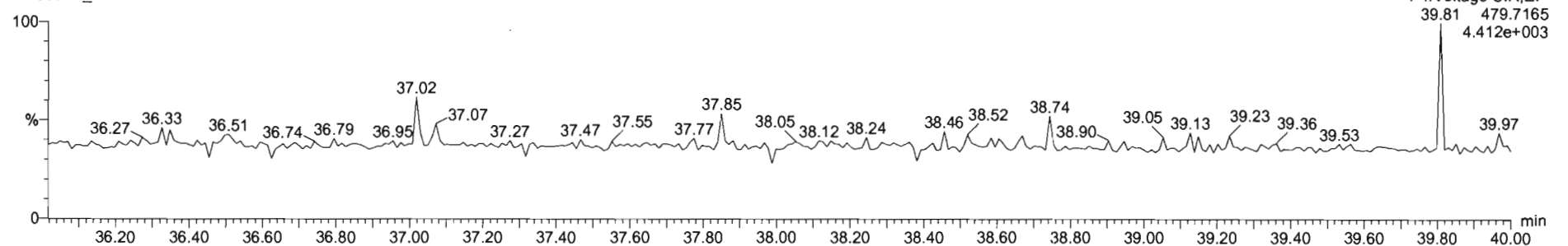


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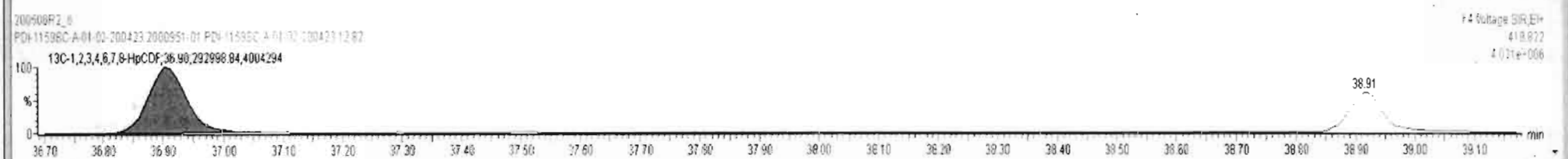
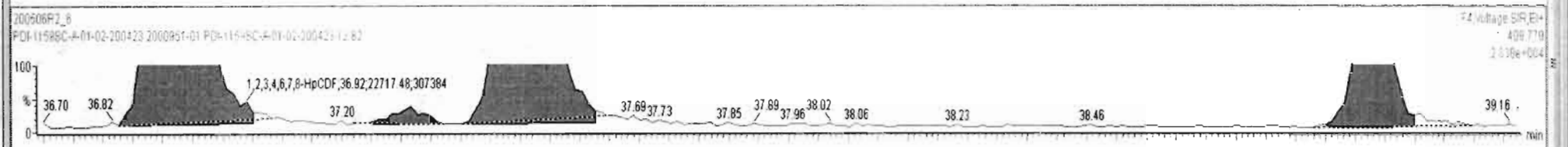
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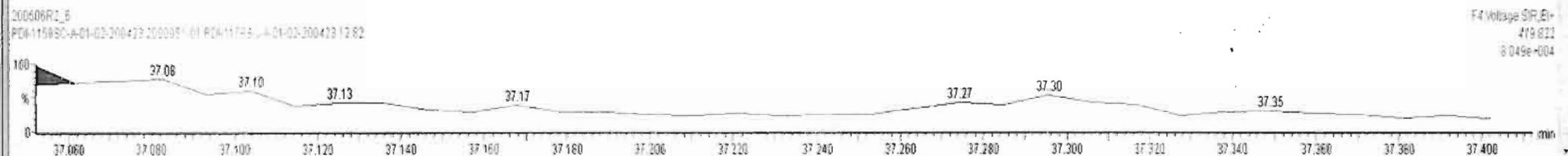
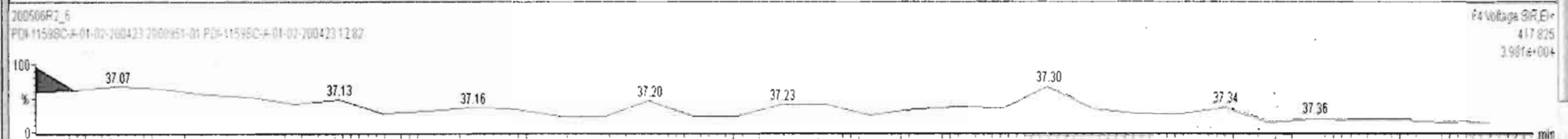
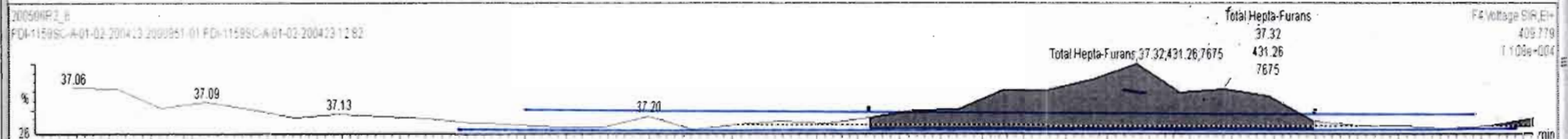
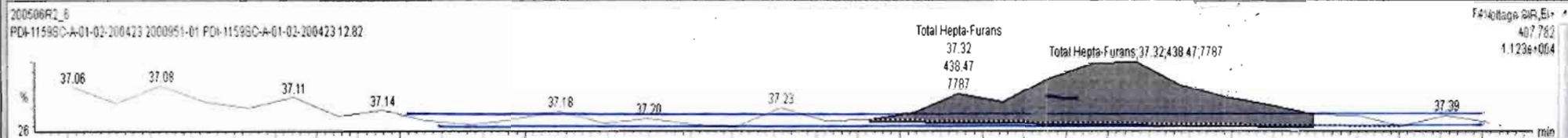
Name	Conc.	DL	%Rec	EMPC	Abs Resp	RRF	RT	#	IS#	RA	YN	RRT	Acq.Date	Acq.Time	1° Chr.Noise	ID	Sample Text	Factor1	SM	Cal File	
45 Total Penta-Furans	57.5949	0.180		57.8487		0.910		45					06-May-20	17:28:49		2000951-01	PDI-1159SC-A-0...	0.0	10.3	db5_1...	
46 Total Hexa-Furans	75.7314	0.208		75.8853		0.922		46					06-May-20	17:28:49		2000951-01	PDI-1159SC-A-0...	0.0	10.3	db5_1...	
47 Total Hepta-Furans	62.5877	0.263		62.5877		0.871		47					06-May-20	17:28:49		2000951-01	PDI-1159SC-A-0...	0.0	10.3	db5_1...	
48 PFK1								48													
49 PFK2								49													
50 PFK3								50													
51 PFK4								51													

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	nly	Resp	Conc.	EMPC
1 1,2,3,4,6,7,8-HpCDF	36.91	3.151e5	3.074e5	2.296e4	2.272e4	1.01	NO	4.568e4	24.3	24.3
2 Total Hepta-Furans	37.32	7.767e3	7.675e3	4.385e2	4.313e2	1.02	NO	8.697e2	0.600	0.600
3 Total Hepta-Furans	37.52	3.135e5	3.197e5	2.231e4	2.249e4	0.99	NO	4.480e4	30.9	30.9
4 1,2,3,4,7,8,9-HpCDF	38.94	6.404e4	6.237e4	3.963e3	4.031e3	0.98	NO	7.994e3	6.77	6.77



XI	Name	Conc.	DL	%Rec	EMPC	Abs Resp	RRF	RT	#	IS#	RA	YN	RRT	Acq.Date	Acq.Time	1* Chr.Noise	ID	Sample Text	Factor1	S/M	Cal File	
45	Total Penta-Furans	57.5949	0.180		57.8487		0.910	45						06-May-20	17:28:49		2000951-01...	PDI-1159SC-A-0...	0.0	10.3	dt5_1...	
46	Total Hexa-Furans	75.7314	0.208		75.8853		0.922	46						06-May-20	17:28:49		2000951-01...	PDI-1159SC-A-0...	0.0	10.3	dt5_1...	
47	Total Hepta-Furans	62.5877	0.263		62.5877		0.871	47						06-May-20	17:28:49		2000951-01...	PDI-1159SC-A-0...	0.0	10.3	dt5_1...	
48	PFK1							48												1		
49	PFK2							49												1		
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51	PFK4							51												1		

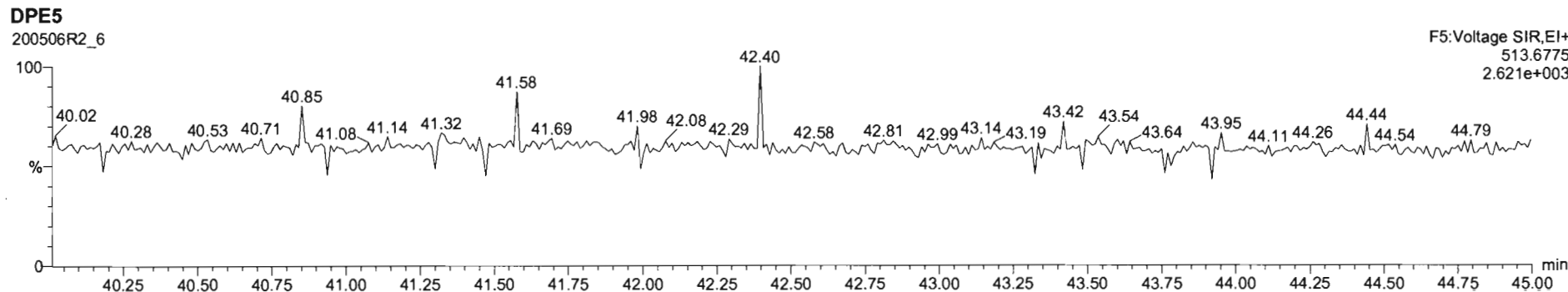
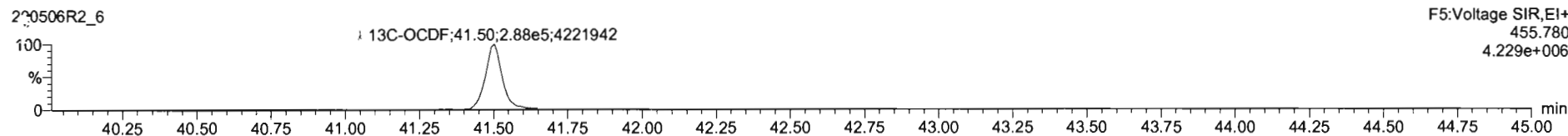
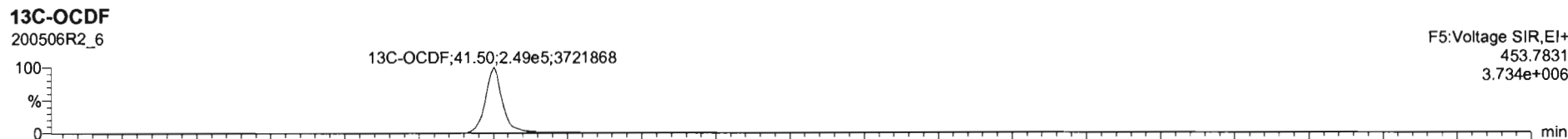
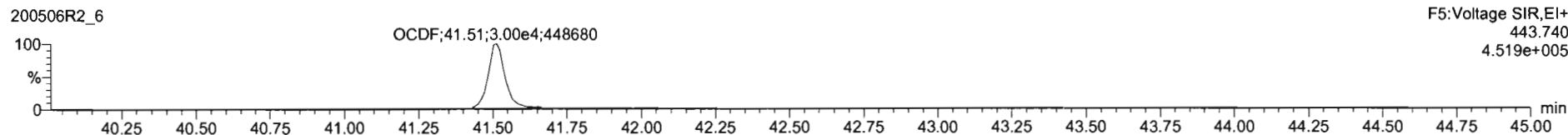
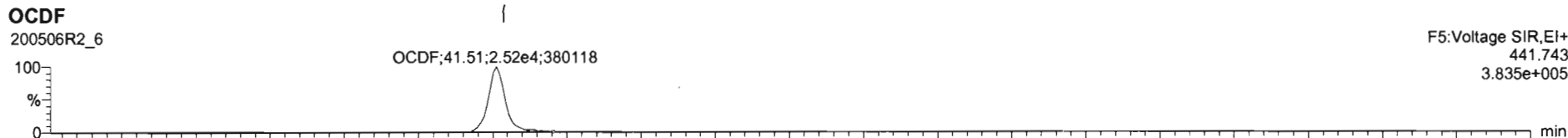
XI	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC
1	1,2,3,4,6,7,8-HpCDF	36.91	3.151e5	3.074e5	2.296e4	2.272e4	1.01	NO	4.568e4	24.3	24.3
2	Total Hepta-Furans	37.32	7.787e3	7.675e3	4.385e2	4.313e2	1.02	NO	8.697e2	0.600	0.600
3	Total Hepta-Furans	37.52	3.135e5	3.197e5	2.231e4	2.249e4	0.99	NO	4.480e4	30.9	30.9
4	1,2,3,4,7,8,9-HpCDF	38.94	6.404e4	6.237e4	3.963e3	4.031e3	0.98	NO	7.994e3	6.77	6.77



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Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

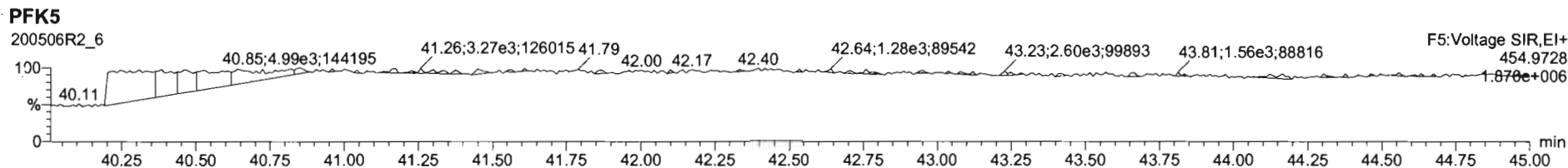
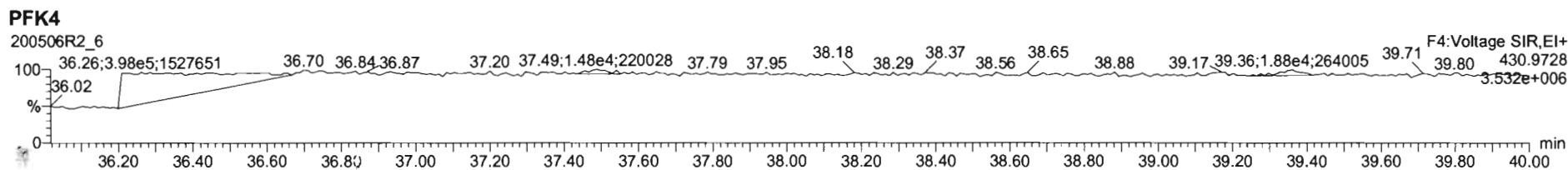
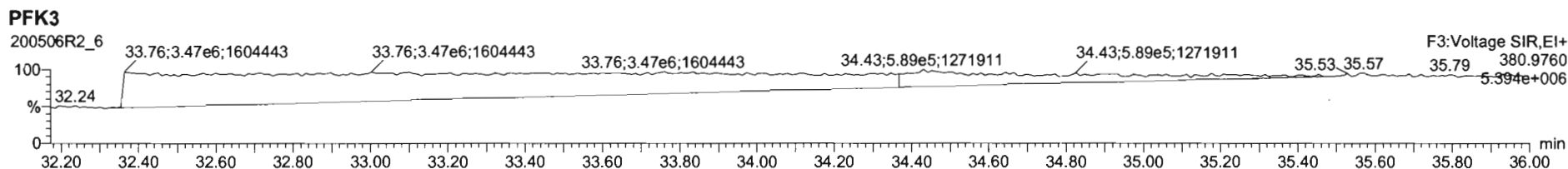
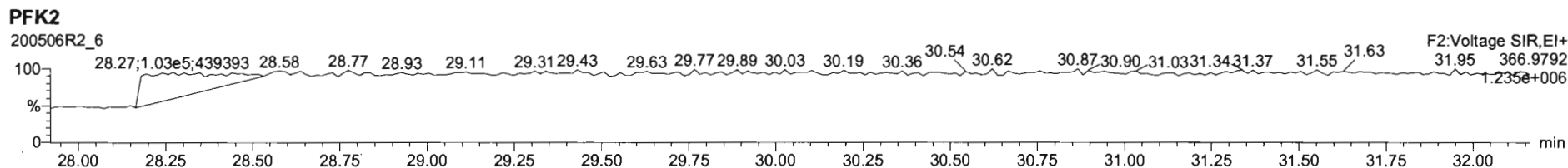
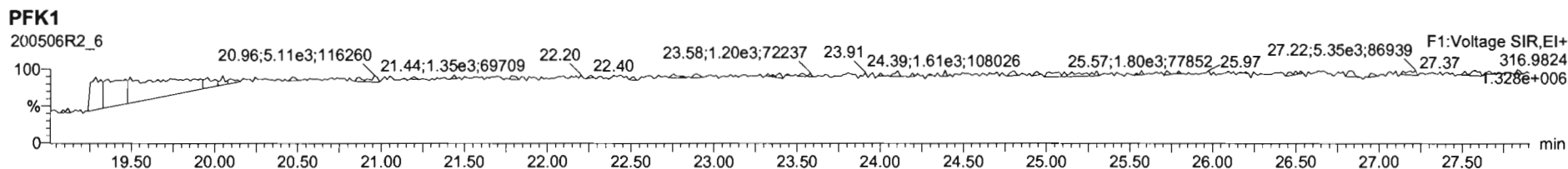
Name: 200506R2\_6, Date: 06-May-2020, Time: 17:28:49, ID: 2000951-01 PDI-1159SC-A-01-02-200423 12.82, Description: PDI-1159SC-A-01-02-200423



Dataset: Untitled

Last Altered: Thursday, May 07, 2020 7:18:10 AM Pacific Daylight Time  
Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

Name: 200506R2\_6, Date: 06-May-2020, Time: 17:28:49, ID: 2000951-01 PDI-1159SC-A-01-02-200423 12.82, Description: PDI-1159SC-A-01-02-200423





Dataset: U:\VG12.PRO\Results\200506R2\200506R2-5a.qld

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Printed: Thursday, May 07, 2020 1:28:17 PM Pacific Daylight Time

*by 05-07-2020*

*C705/13/2020*

Method: Untitled 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200506R2\_5, Date: 06-May-2020, Time: 16:42:36, ID: B0D0323-DUP1 Duplicate 12.5, Description: Duplicate

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	2.93e3	0.59	YES	0.947	10.030	26.006	26.00	1.001	1.001	0.69033		0.0961	0.592
2	2 1,2,3,7,8-PeCDD	2.39e3	0.64	NO	0.942	10.030	31.101	31.09	1.001	1.000	0.77076		0.227	0.771
3	3 1,2,3,4,7,8-HxCDD	1.20e3	1.43	YES	1.06	10.030	34.472	34.48	1.000	1.001	0.48774		0.177	0.449
4	4 1,2,3,6,7,8-HxCDD	5.14e3	1.27	NO	0.915	10.030	34.569	34.59	1.000	1.001	2.0938		0.193	2.09
5	5 1,2,3,7,8,9-HxCDD	2.87e3	1.27	NO	0.915	10.030	34.845	34.86	1.000	1.001	1.3590		0.236	1.36
6	6 1,2,3,4,6,7,8-HpCDD	1.24e5	1.05	NO	0.898	10.030	38.340	38.35	1.000	1.001	88.265		0.713	88.3
7	7 OCDD	1.15e6	0.86	NO	0.933	10.030	41.321	41.33	1.000	1.000	1018.8	(13.8)	0.650	1020
8	8 2,3,7,8-TCDF	7.47e4	0.73	NO	0.787	10.030	25.057	25.05	1.001	1.001	17.588	(13.7)4	0.169	17.6
9	9 1,2,3,7,8-PeCDF	1.10e5	1.57	NO	0.910	10.030	29.788	29.78	1.001	1.000	23.860		0.181	23.9
10	10 2,3,4,7,8-PeCDF	4.29e4	1.56	NO	0.966	10.030	30.792	30.79	1.001	1.000	9.1424		0.171	9.14
11	11 1,2,3,4,7,8-HxCDF	1.46e5	1.18	NO	0.878	10.030	33.610	33.62	1.000	1.000	54.336		0.183	54.3
12	12 1,2,3,6,7,8-HxCDF	4.91e4	1.22	NO	0.874	10.030	33.738	33.74	1.000	1.000	15.675		0.166	15.7
13	13 2,3,4,6,7,8-HxCDF	8.57e3	1.29	NO	0.922	10.030	34.326	34.30	1.001	1.000	3.1521		0.196	3.15
14	14 1,2,3,7,8,9-HxCDF	2.38e3	1.20	NO	0.864	10.030	35.176	35.21	1.000	1.001	1.2415		0.309	1.24
15	15 1,2,3,4,6,7,8-HpCDF	5.89e4	0.99	NO	0.871	10.030	36.960	36.93	1.001	1.000	33.416		0.325	33.4
16	16 1,2,3,4,7,8,9-HpCDF	1.13e4	0.99	NO	1.01	10.030	38.925	38.94	1.000	1.000	9.9036		0.454	9.90
17	17 OCDF	6.41e4	0.85	NO	0.802	10.030	41.502	41.51	1.000	1.000	61.368		0.223	61.4
18	18 13C-2,3,7,8-TCDD	8.92e5	0.79	NO	1.16	10.030	25.969	25.98	1.026	1.027	164.22	82.4	0.212	
19	19 13C-1,2,3,7,8-PeCDD	6.55e5	0.64	NO	0.847	10.030	31.049	31.08	1.227	1.228	165.08	82.8	0.337	
20	20 13C-1,2,3,4,7,8-HxCDD	4.61e5	1.28	NO	0.750	10.030	34.473	34.46	1.014	1.014	170.12	85.3	0.648	
21	21 13C-1,2,3,6,7,8-HxCDD	5.35e5	1.28	NO	0.963	10.030	34.585	34.57	1.017	1.017	153.82	77.1	0.504	
22	22 13C-1,2,3,7,8,9-HxCDD	4.61e5	1.23	NO	0.838	10.030	34.854	34.83	1.025	1.025	152.12	76.3	0.580	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.13e5	1.09	NO	0.641	10.030	38.342	38.33	1.128	1.127	134.80	67.6	0.418	
24	24 13C-OCDD	4.82e5	0.90	NO	0.586	10.030	41.333	41.32	1.216	1.216	227.21	57.0	0.310	
25	25 13C-2,3,7,8-TCDF	1.08e6	0.76	NO	1.03	10.030	25.030	25.03	0.989	0.989	151.28	75.9	0.388	
26	26 13C-1,2,3,7,8-PeCDF	1.01e6	1.59	NO	0.845	10.030	29.741	29.77	1.176	1.177	173.12	86.8	0.611	
27	27 13C-2,3,4,7,8-PeCDF	9.69e5	1.59	NO	0.814	10.030	30.731	30.77	1.215	1.216	173.10	86.8	0.634	
28	28 13C-1,2,3,4,7,8-HxCDF	6.10e5	0.51	NO	1.00	10.030	33.613	33.61	0.989	0.989	168.05	84.3	0.505	
29	29 13C-1,2,3,6,7,8-HxCDF	7.15e5	0.51	NO	1.14	10.030	33.736	33.73	0.992	0.992	173.88	87.2	0.446	
30	30 13C-2,3,4,6,7,8-HxCDF	5.89e5	0.50	NO	1.02	10.030	34.303	34.29	1.009	1.009	159.25	79.9	0.496	
31	31 13C-1,2,3,7,8,9-HxCDF	4.42e5	0.51	NO	0.845	10.030	35.194	35.18	1.035	1.035	144.90	72.7	0.600	

Dataset: U:\VG12.PRO\Results\200506R2\200506R2-5a.qld

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Name: 200506R2\_5, Date: 06-May-2020, Time: 16:42:36, ID: B0D0323-DUP1 Duplicate 12.5, 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	4.03e5	0.43	NO	0.771	10.030	36.924	36.92	1.086	1.086	144.66	72.5	0.475	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.26e5	0.42	NO	0.482	10.030	38.933	38.92	1.145	1.145	129.57	65.0	0.760	
34	34 13C-OCDF	5.20e5	0.88	NO	0.669	10.030	41.503	41.50	1.221	1.221	215.03	53.9	0.443	
35	35 37Cl-2,3,7,8-TCDD	3.36e5			1.10	10.030	25.999	26.00	1.028	1.028	65.313	81.9	0.0501	
36	36 13C-1,2,3,4-TCDD	9.34e5	0.79	NO	1.00	10.030	25.350	25.30	1.000	1.000	199.41	100	0.246	
37	37 13C-1,2,3,4-TCDF	1.37e6	0.79	NO	1.00	10.030	23.560	23.52	1.000	1.000	199.41	100	0.402	
38	38 13C-1,2,3,4,6,9-HxCDF	7.21e5	0.51	NO	1.00	10.030	34.000	33.99	1.000	1.000	199.41	100	0.507	
39	39 Total Tetra-Dioxins				0.947	10.030	24.620		0.000		1.6007		0.0981	2.57
40	40 Total Penta-Dioxins				0.942	10.030	29.960		0.000		3.0461		0.227	3.71
41	41 Total Hexa-Dioxins				0.915	10.030	33.635		0.000		25.130		0.211	26.6
42	42 Total Hepta-Dioxins				0.898	10.030	37.640		0.000		210.88		0.713	211
43	43 Total Tetra-Furans				0.787	10.030	23.610		0.000		64.643		0.169	65.5
44	44 1st Func. Penta-Furans				0.910	10.030	27.090		0.000		5.3038		0.0267	5.30
45	45 Total Penta-Furans				0.910	10.030	29.275		0.000		66.759		0.181	67.6
46	46 Total Hexa-Furans				0.922	10.030	33.555		0.000		99.156		0.196	99.2
47	47 Total Hepta-Furans				0.871	10.030	37.835		0.000		80.095		0.398	80.5

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200506R2\200506R2-5a.qld

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Method: Untitled 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200506R2\_5, Date: 06-May-2020, Time: 16:42:36, ID: B0D0323-DUP1 Duplicate 12.5, 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	21.83	2.011e4	2.066e4	1.783e3	2.041e3	0.87	NO	3.824e3	0.90199	0.90199	0.0981
2	Total Tetra-Dioxins	22.22	5.275e3	6.419e3	3.036e2	6.129e2	0.50	YES	0.000e0	0.00000	0.16461	0.0981
3	Total Tetra-Dioxins	23.98	5.005e3	6.430e3	3.409e2	4.806e2	0.71	NO	8.215e2	0.19378	0.19378	0.0981
4	Total Tetra-Dioxins	24.22	6.536e3	9.118e3	4.927e2	5.189e2	0.95	YES	0.000e0	0.00000	0.21665	0.0981
5	Total Tetra-Dioxins	25.71	7.586e3	1.046e4	6.878e2	8.775e2	0.78	NO	1.565e3	0.36922	0.36922	0.0981
6	2,3,7,8-TCDD	26.00	1.816e4	2.580e4	1.091e3	1.835e3	0.59	YES	2.927e3	0.00000	0.59167	0.0981
7	Total Tetra-Dioxins	26.35	4.959e3	4.220e3	2.593e2	3.161e2	0.82	NO	5.754e2	0.13572	0.13572	0.0981

**Penta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.84	2.094e4	3.303e4	1.494e3	2.713e3	0.55	NO	4.207e3	1.3582	1.3582	0.227
2	Total Penta-Dioxins	29.31	5.957e3	1.007e4	2.641e2	5.084e2	0.52	YES	0.000e0	0.00000	0.22059	0.227
3	Total Penta-Dioxins	29.83	1.591e4	1.854e4	7.232e2	1.004e3	0.72	NO	1.727e3	0.55762	0.55762	0.227
4	Total Penta-Dioxins	30.01	7.648e3	1.317e4	4.046e2	7.089e2	0.57	NO	1.113e3	0.35949	0.35949	0.227
5	Total Penta-Dioxins	30.13	4.756e3	8.929e3	1.332e2	4.417e2	0.30	YES	0.000e0	0.00000	0.11130	0.227
6	Total Penta-Dioxins	30.70	3.755e3	9.218e3	2.123e2	4.119e2	0.52	YES	0.000e0	0.00000	0.17736	0.227
7	1,2,3,7,8-PeCDD	31.09	1.523e4	2.251e4	9.310e2	1.456e3	0.64	NO	2.387e3	0.77076	0.77076	0.227
8	Total Penta-Dioxins	31.51	5.075e3	7.410e3	2.160e2	2.938e2	0.74	YES	0.000e0	0.00000	0.15462	0.227

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200506R2\200506R2-5a.qld

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Name: 200506R2\_5, Date: 06-May-2020, Time: 16:42:36, ID: B0D0323-DUP1 Duplicate 12.5, 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	33.00	2.455e5	1.962e5	1.299e4	1.044e4	1.24	NO	2.343e4	10.517	10.517	0.211
2	Total Hexa-Dioxins	33.57	3.419e4	2.935e4	1.908e3	1.512e3	1.26	NO	3.420e3	1.5353	1.5353	0.211
3	Total Hexa-Dioxins	33.81	1.633e5	1.400e5	1.116e4	9.146e3	1.22	NO	2.030e4	9.1139	9.1139	0.211
4	Total Hexa-Dioxins	33.92	2.212e4	1.698e4	1.262e3	1.198e3	1.05	YES	0.000e0	0.00000	1.0230	0.211
5	1,2,3,4,7,8-HxCDD	34.48	1.277e4	1.065e4	7.068e2	4.935e2	1.43	YES	1.200e3	0.00000	0.44922	0.177
6	1,2,3,6,7,8-HxCDD	34.59	4.954e4	3.518e4	2.878e3	2.264e3	1.27	NO	5.142e3	2.0938	2.0938	0.193
7	Total Hexa-Dioxins	34.76	1.610e4	1.027e4	6.365e2	5.034e2	1.26	NO	1.140e3	0.51170	0.51170	0.211
8	1,2,3,7,8,9-HxCDD	34.86	2.780e4	1.927e4	1.608e3	1.264e3	1.27	NO	2.872e3	1.3590	1.3590	0.236

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.32	1.230e6	1.212e6	8.720e4	8.539e4	1.02	NO	1.726e5	122.62	122.62	0.713
2	1,2,3,4,6,7,8-HpCDD	38.35	8.464e5	8.390e5	6.368e4	6.056e4	1.05	NO	1.242e5	88.265	88.265	0.713

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200506R2\200506R2-5a.qld

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Name: 200506R2\_5, Date: 06-May-2020, Time: 16:42:36, ID: B0D0323-DUP1 Duplicate 12.5, 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	19.76	6.067e3	9.994e3	5.453e2	7.724e2	0.71	NO	1.318e3	0.31027	0.31027	0.169
2	Total Tetra-Furans	20.29	8.259e3	1.373e4	6.800e2	1.053e3	0.65	YES	0.000e0	0.00000	0.36804	0.169
3	Total Tetra-Furans	20.87	7.698e4	1.047e5	7.180e3	9.159e3	0.78	NO	1.634e4	3.8473	3.8473	0.169
4	Total Tetra-Furans	21.33	8.983e3	7.469e3	7.430e2	6.482e2	1.15	YES	0.000e0	0.00000	0.27015	0.169
5	Total Tetra-Furans	21.42	1.295e4	1.765e4	1.345e3	1.674e3	0.80	NO	3.019e3	0.71081	0.71081	0.169
6	Total Tetra-Furans	21.80	8.558e4	1.209e5	8.875e3	1.259e4	0.70	NO	2.147e4	5.0553	5.0553	0.169
7	Total Tetra-Furans	22.26	2.722e4	3.490e4	2.601e3	3.387e3	0.77	NO	5.988e3	1.4101	1.4101	0.169
8	Total Tetra-Furans	22.41	4.607e3	6.367e3	3.754e2	6.090e2	0.62	YES	0.000e0	0.00000	0.20319	0.169
9	Total Tetra-Furans	22.62	1.225e4	2.052e4	1.352e3	1.954e3	0.69	NO	3.307e3	0.77861	0.77861	0.169
10	Total Tetra-Furans	23.53	1.420e5	2.037e5	1.748e4	2.429e4	0.72	NO	4.177e4	9.8348	9.8348	0.169
11	Total Tetra-Furans	24.07	3.007e5	4.087e5	2.776e4	3.682e4	0.75	NO	6.458e4	15.205	15.205	0.169
12	Total Tetra-Furans	24.37	1.441e4	1.753e4	1.288e3	1.767e3	0.73	NO	3.055e3	0.71929	0.71929	0.169
13	Total Tetra-Furans	24.58	1.230e4	1.788e4	1.204e3	1.566e3	0.77	NO	2.770e3	0.65221	0.65221	0.169
14	Total Tetra-Furans	24.94	1.382e5	1.817e5	1.067e4	1.214e4	0.88	NO	2.281e4	5.3712	5.3712	0.169
15	2,3,7,8-TCDF	25.05	3.875e5	5.092e5	3.147e4	4.323e4	0.73	NO	7.469e4	17.588	17.588	0.169
16	Total Tetra-Furans	25.45	2.633e4	3.118e4	2.171e3	2.761e3	0.79	NO	4.931e3	1.1612	1.1612	0.169
17	Total Tetra-Furans	25.71	4.715e3	6.170e3	4.082e2	4.918e2	0.83	NO	9.001e2	0.21194	0.21194	0.169
18	Total Tetra-Furans	27.14	4.484e4	5.999e4	3.354e3	4.236e3	0.79	NO	7.590e3	1.7871	1.7871	0.169

**Penta-Furans function 1**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.16	2.185e5	1.372e5	1.476e4	9.142e3	1.61	NO	2.390e4	5.3038	5.3038	0.0267

Dataset: U:\VG12.PRO\Results\200506R2\200506R2-5a.qld

Last Altered: Thursday, May 07, 2020 1:26:05 PM Pacific Daylight Time

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Name: 200506R2\_5, Date: 06-May-2020, Time: 16:42:36, ID: B0D0323-DUP1 Duplicate 12.5, 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	28.67	1.483e4	1.314e4	1.026e3	7.896e2	1.30	YES	0.000e0	0.00000	0.37466	0.181
2	Total Penta-Furans	28.79	4.789e5	3.302e5	4.197e4	2.734e4	1.54	NO	6.932e4	15.382	15.382	0.181
3	Total Penta-Furans	29.39	1.982e5	1.285e5	1.359e4	8.321e3	1.63	NO	2.191e4	4.8614	4.8614	0.181
4	Total Penta-Furans	29.60	1.649e5	1.051e5	9.190e3	5.696e3	1.61	NO	1.489e4	3.3031	3.3031	0.181
5	1,2,3,7,8-PeCDF	29.78	1.080e6	6.875e5	6.692e4	4.262e4	1.57	NO	1.095e5	23.860	23.860	0.181
6	Total Penta-Furans	30.07	3.425e5	2.218e5	2.112e4	1.303e4	1.62	NO	3.415e4	7.5772	7.5772	0.181
7	2,3,4,7,8-PeCDF	30.79	4.774e5	3.128e5	2.614e4	1.678e4	1.56	NO	4.292e4	9.1424	9.1424	0.171
8	Total Penta-Furans	30.82	2.516e5	1.687e5	7.528e3	4.339e3	1.74	NO	1.187e4	2.6332	2.6332	0.181
9	Total Penta-Furans	31.75	2.060e4	1.881e4	1.308e3	1.035e3	1.26	YES	0.000e0	0.00000	0.47755	0.181

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.45	8.362e4	6.883e4	4.234e3	3.760e3	1.13	NO	7.994e3	2.9364	2.9364	0.196
2	Total Hexa-Furans	32.62	2.772e5	2.401e5	1.390e4	1.177e4	1.18	NO	2.566e4	9.4261	9.4261	0.196
3	Total Hexa-Furans	32.98	9.149e3	5.194e3	2.417e2	1.951e2	1.24	NO	4.369e2	0.16046	0.16046	0.196
4	Total Hexa-Furans	33.16	2.513e5	2.001e5	1.264e4	9.878e3	1.28	NO	2.252e4	8.2702	8.2702	0.196
5	Total Hexa-Furans	33.51	1.713e4	1.101e4	6.244e2	4.394e2	1.42	NO	1.064e3	0.39074	0.39074	0.196
6	1,2,3,4,7,8-HxCDF	33.62	1.579e6	1.301e6	7.906e4	6.701e4	1.18	NO	1.461e5	54.336	54.336	0.183
7	1,2,3,6,7,8-HxCDF	33.74	4.514e5	3.666e5	2.696e4	2.213e4	1.22	NO	4.909e4	15.675	15.675	0.166
8	Total Hexa-Furans	34.02	8.838e3	8.849e3	4.849e2	4.041e2	1.20	NO	8.890e2	0.32656	0.32656	0.196
9	2,3,4,6,7,8-HxCDF	34.30	8.314e4	7.193e4	4.833e3	3.742e3	1.29	NO	8.575e3	3.1521	3.1521	0.196
10	1,2,3,7,8,9-HxCDF	35.21	5.061e4	4.219e4	1.297e3	1.084e3	1.20	NO	2.381e3	1.2415	1.2415	0.309
11	Total Hexa-Furans	35.24	8.602e4	7.298e4	4.787e3	4.037e3	1.19	NO	8.824e3	3.2413	3.2413	0.196

**Hepta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.93	4.257e5	4.232e5	2.929e4	2.959e4	0.99	NO	5.888e4	33.416	33.416	0.325
2	Total Hepta-Furans	37.32	6.405e3	1.196e4	3.148e2	4.109e2	0.77	YES	0.000e0	0.00000	0.44928	0.398
3	Total Hepta-Furans	37.51	3.688e5	3.675e5	2.518e4	2.537e4	0.99	NO	5.055e4	36.776	36.776	0.398
4	1,2,3,4,7,8,9-HpCDF	38.94	1.005e5	9.424e4	5.633e3	5.715e3	0.99	NO	1.135e4	9.9036	9.9036	0.454

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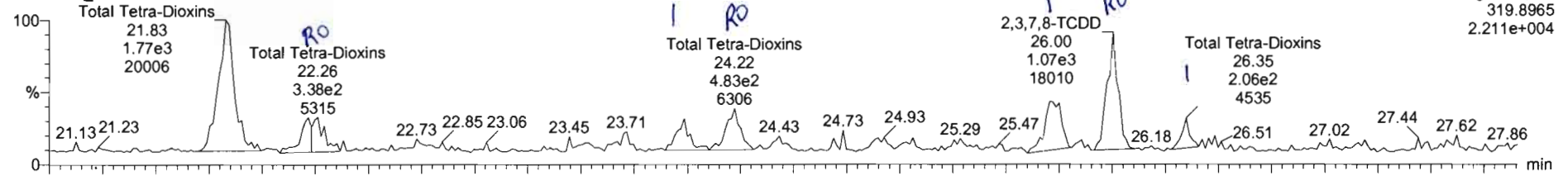
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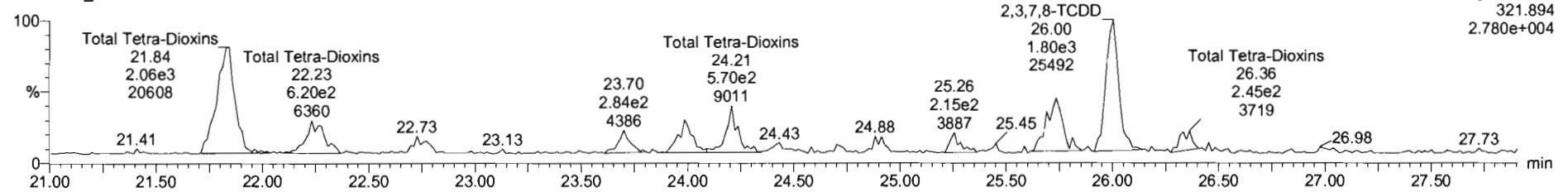
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2,3,7,8-TCDD

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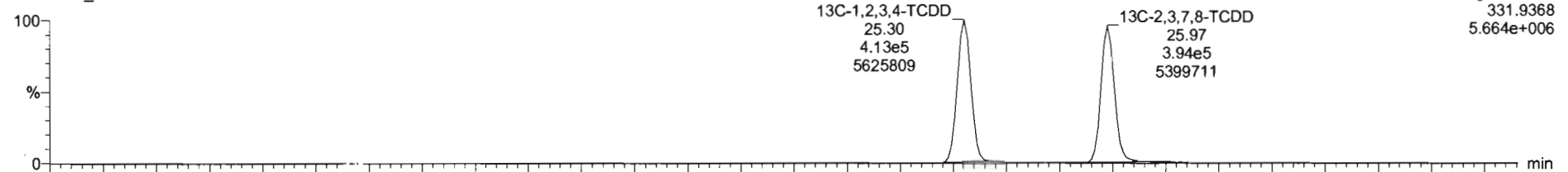


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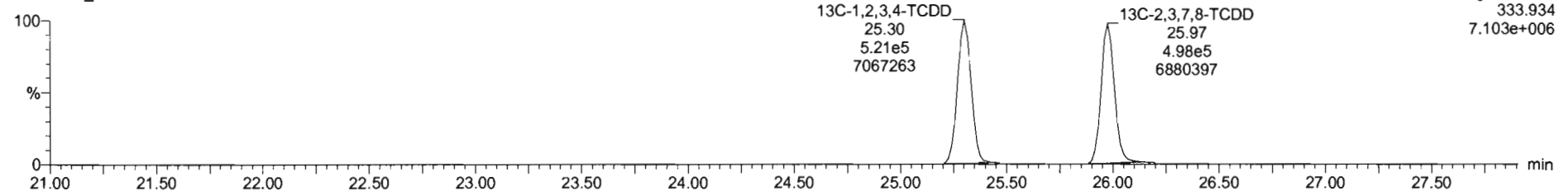


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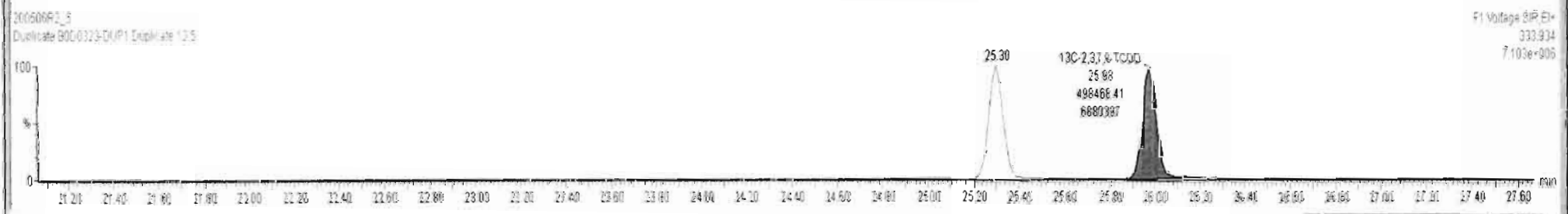
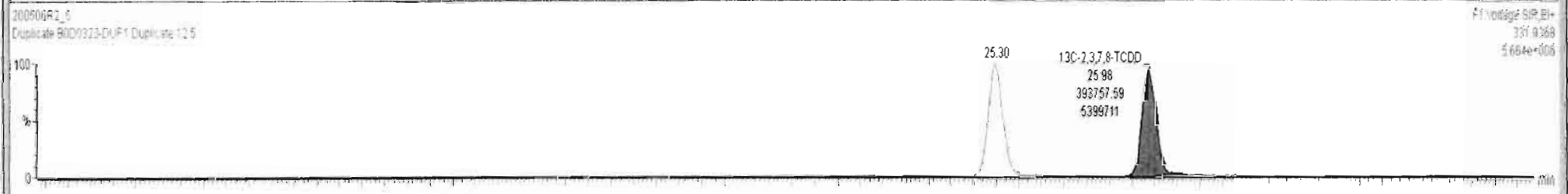
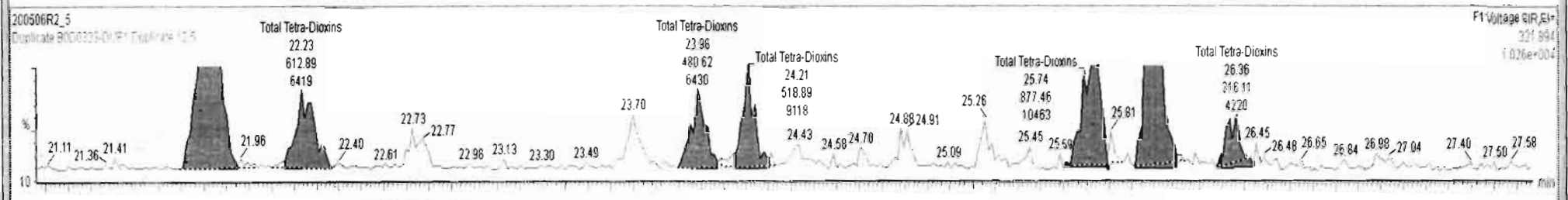
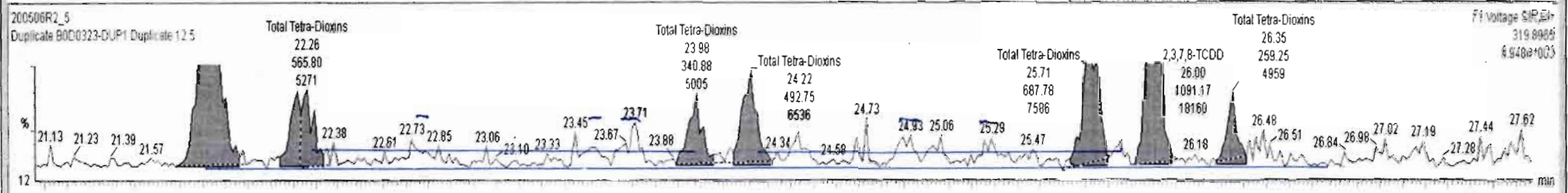
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200506R2\_5 - B0D0323-DUP1 Duplicate 12.5 - Duplicate

Name	Resp	RA	n/y	RF	wt/ol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.030			1.60		0.0981	2.66

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	21.83	1.763e3	2.041e3	0.87	NO	0.90199	0.90199
2 Total Tetra-Dioxins	22.26	5.658e2	6.129e2	0.92	YES	0.25590	0.00000
3 Total Tetra-Dioxins	23.98	3.409e2	4.806e2	0.71	NO	0.19378	0.19378
4 Total Tetra-Dioxins	24.22	4.927e2	5.189e2	0.95	YES	0.21685	0.00000
5 Total Tetra-Dioxins	25.71	6.878e2	8.775e2	0.78	NO	0.36922	0.36922
6 2,3,7,8-TCDD	26.00	1.091e3	1.835e3	0.59	YES	0.59167	0.00000
7 Total Tetra-Dioxins	26.35	2.583e2	3.161e2	0.82	NO	0.13572	0.13572





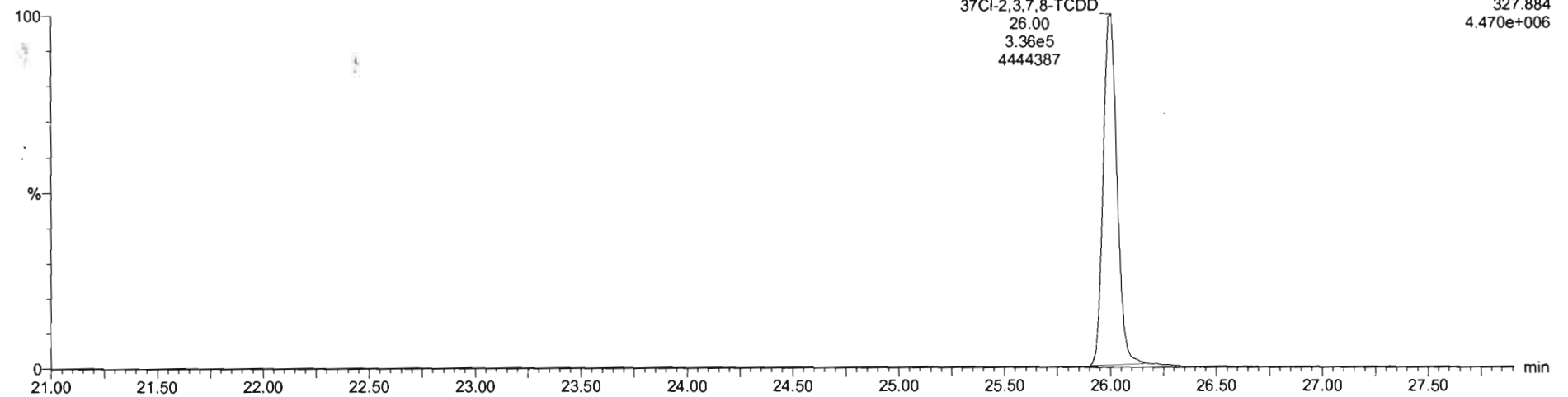
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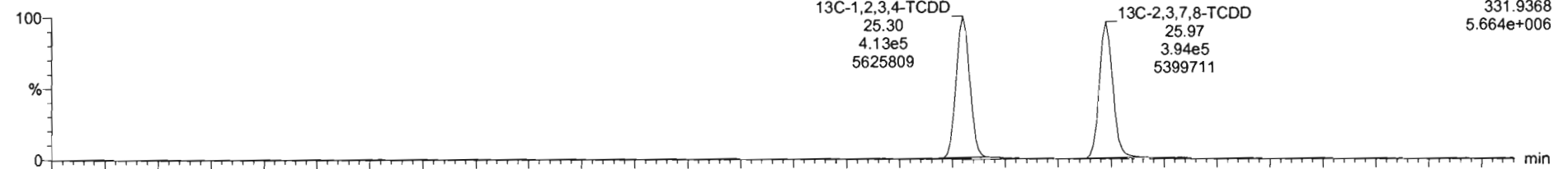
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200506R2\_5

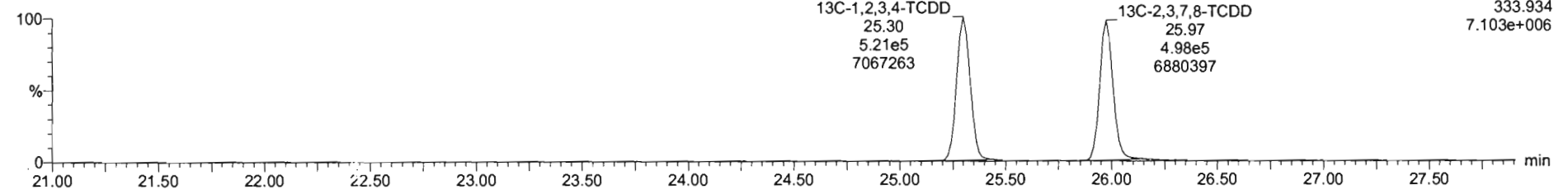


**13C-1,2,3,4-TCDD**

200506R2\_5



200506R2\_5

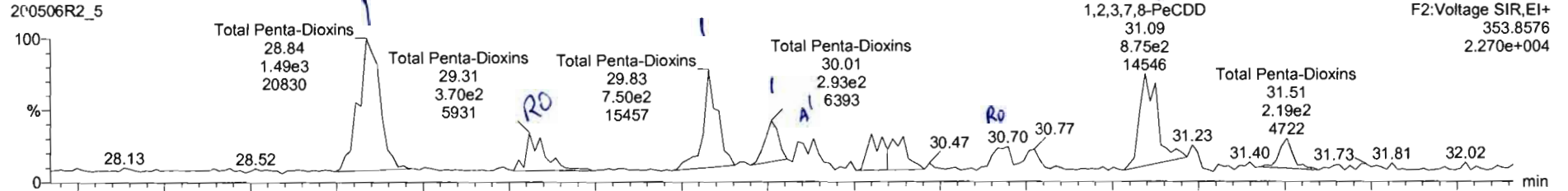


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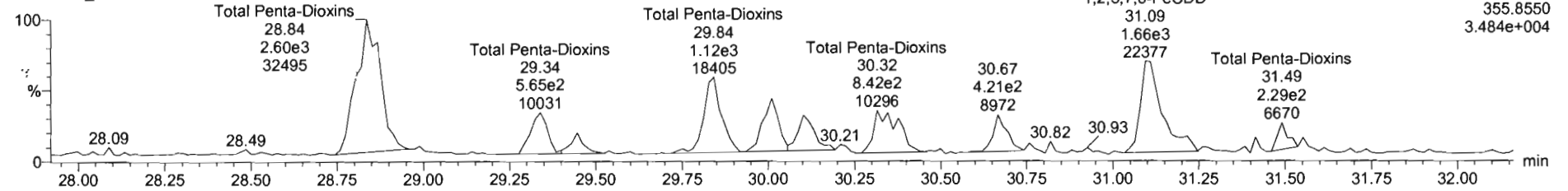
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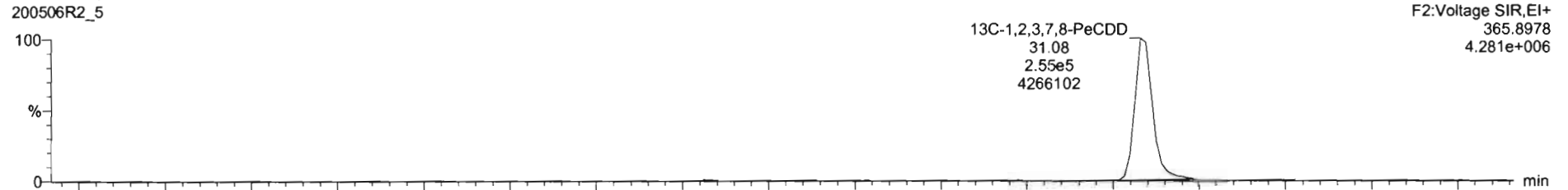
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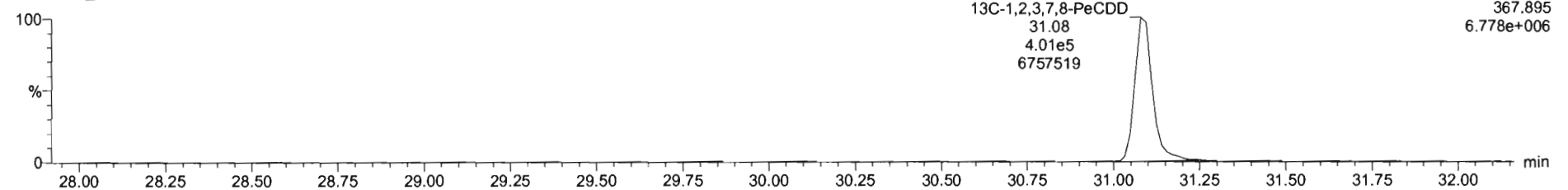
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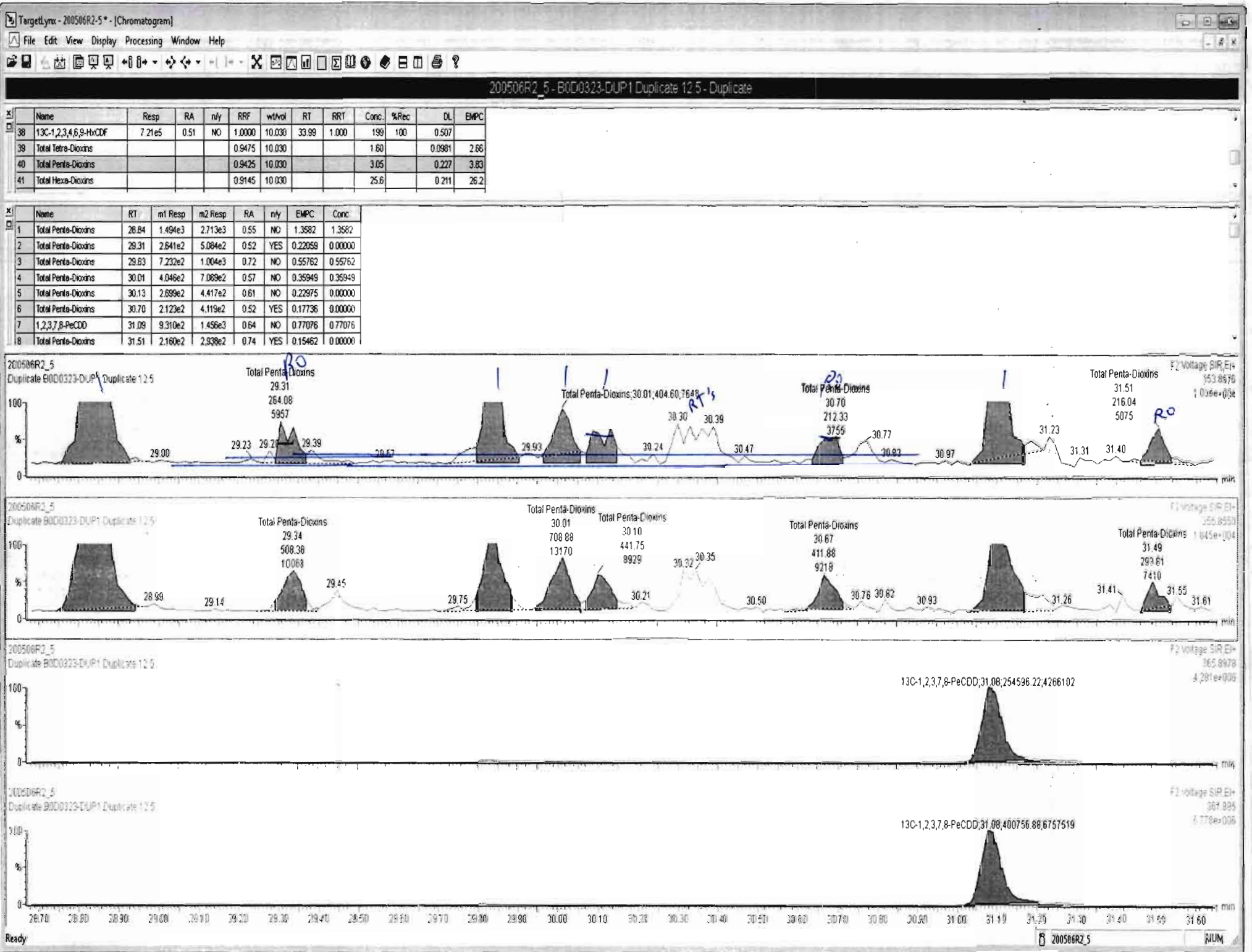


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200506R2\_5





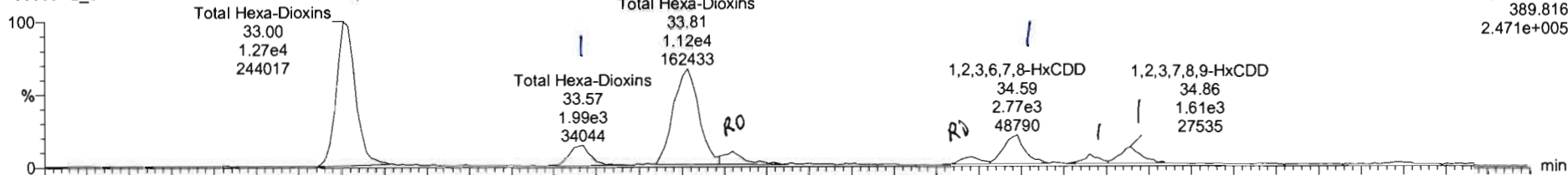
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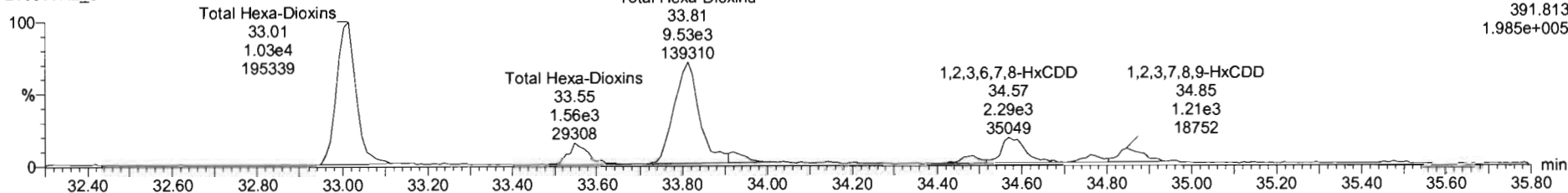
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1,2,3,4,7,8-HxCDD

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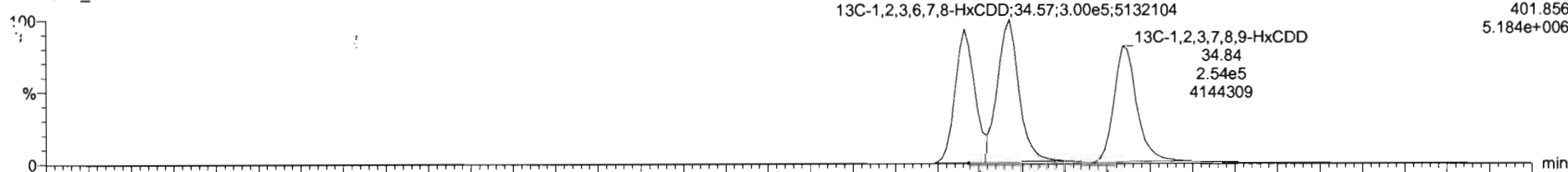


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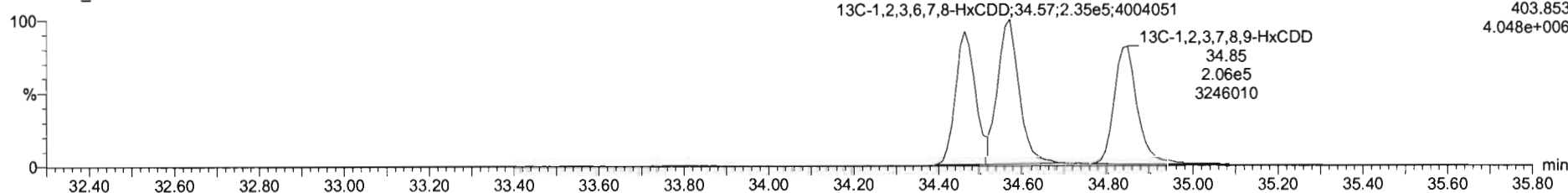


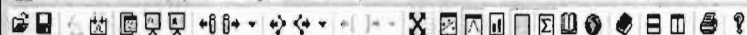
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200506R2\_5



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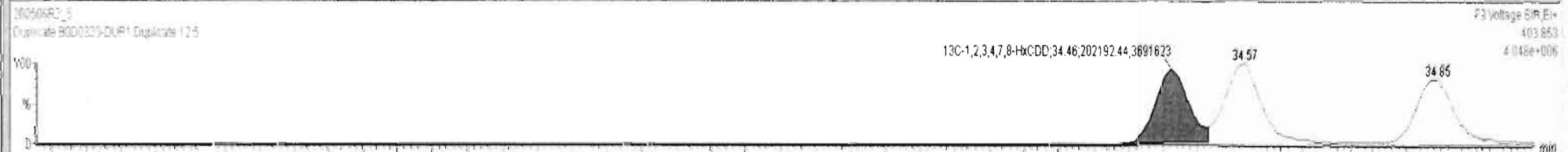
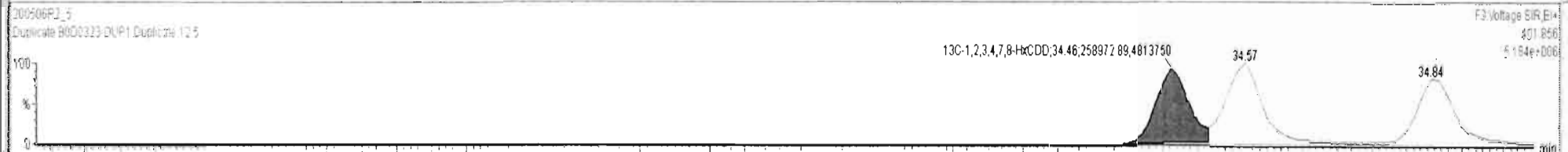
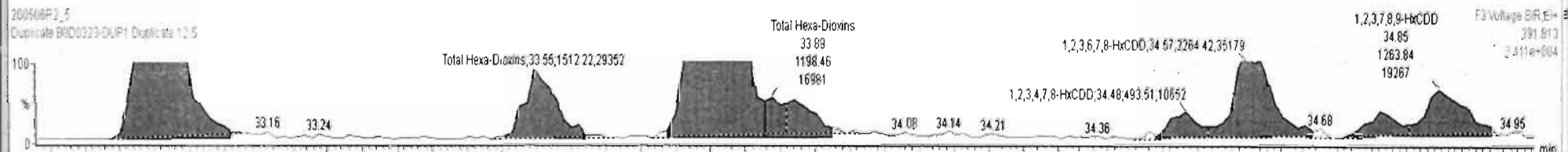
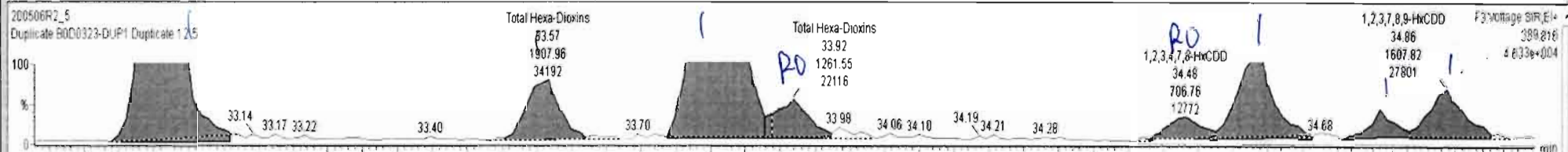




200506R2\_5 - BOD0323-DUP1 Duplicate 12.5 - Duplicate

Name	Resp	RA	n/y	RRF	wMol	RT	RRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.9145	10.030			25.1		0.211	26.6
42 Total Hepta-Dioxins				0.8979	10.030			213		0.713	213
43 Total Tetra-Furans				0.7871	10.030			62.7		0.169	63.9
44 1st Func. Penta-Furans				0.9102	10.030			5.29		0.0266	5.29

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	33.00	1.299e4	1.044e4	1.24	NO	10.517	10.517
2 Total Hexa-Dioxins	33.57	1.908e3	1.512e3	1.26	NO	1.5353	1.5353
3 Total Hexa-Dioxins	33.81	1.116e4	9.146e3	1.22	NO	9.1139	9.1139
4 Total Hexa-Dioxins	33.92	1.262e3	1.198e3	1.05	YES	1.0230	0.00000
5 1,2,3,4,7,8-HxCDD	34.48	7.068e2	4.935e2	1.43	YES	0.44922	0.00000
6 1,2,3,6,7,8-HxCDD	34.59	2.678e3	2.264e3	1.27	NO	2.0938	2.0938
7 Total Hexa-Dioxins	34.76	6.365e2	5.034e2	1.26	NO	0.51170	0.51170
8 1,2,3,7,8-HxCDD	34.86	1.608e3	1.264e3	1.27	NO	1.3590	1.3590



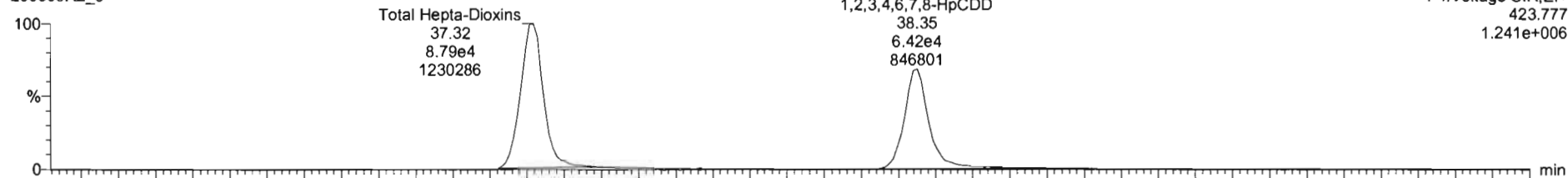
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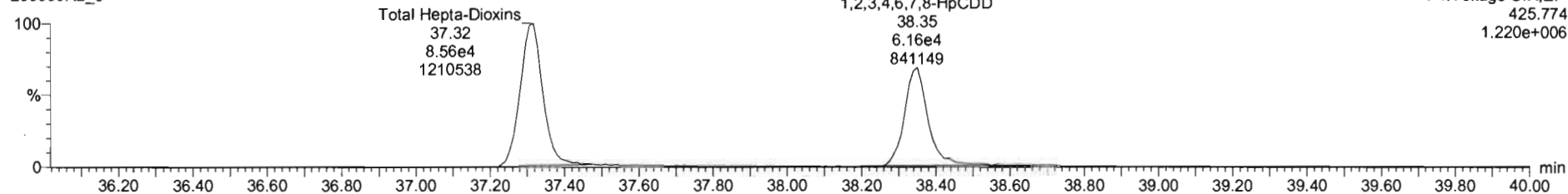
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1,2,3,4,6,7,8-HpCDD

200506R2\_5

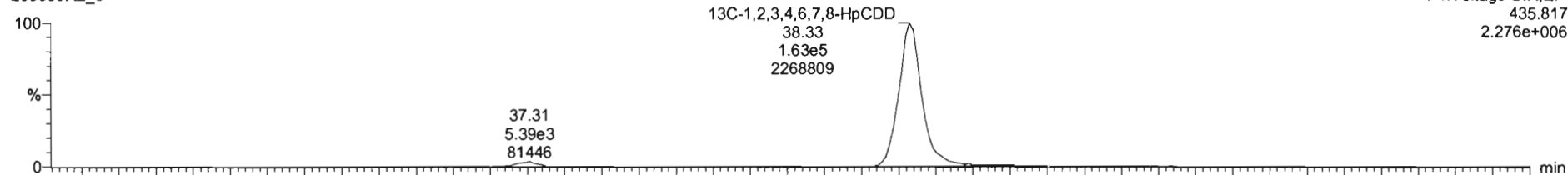


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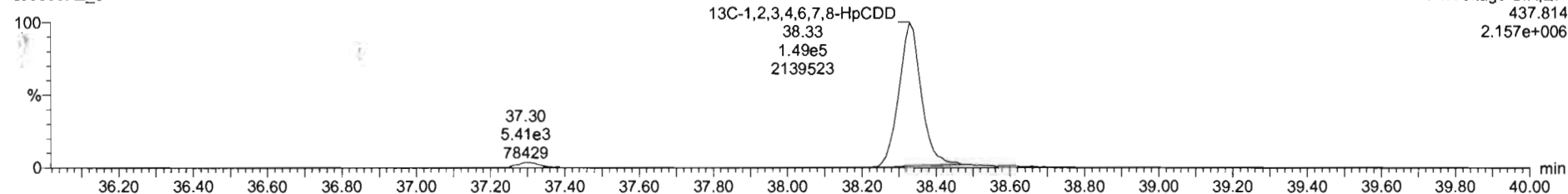


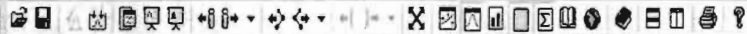
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200506R2\_5



200506R2\_5

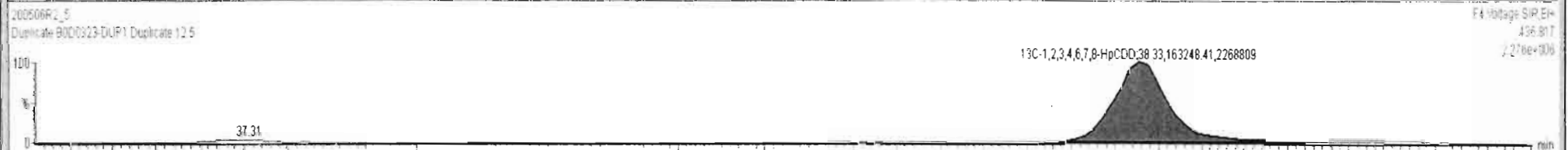
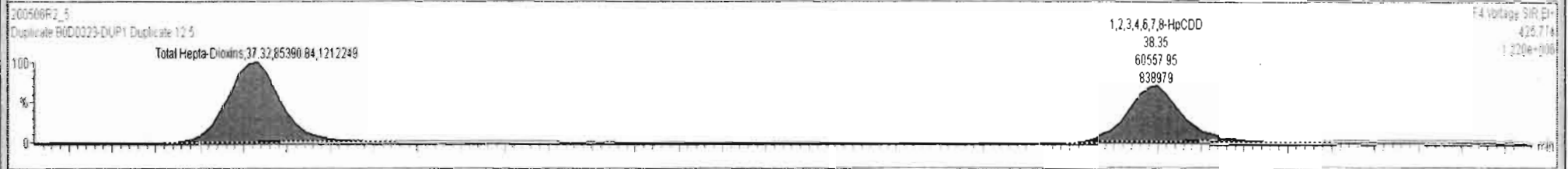




200506R2\_5 - B0D0323-DUP1 Duplicate 12.5 - Duplicate

Name	Resp	RA	nly	RFF	wVol	RT	RRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.9145	10.030			25.1		0.211	26.6
42 Total Hepta-Dioxins				0.6979	10.030			211		0.713	211
43 Total Tetra-Furans				0.7871	10.030			62.7		0.169	63.9
44 1st Func. Penta-Furans				0.9102	10.030			5.29		0.0266	5.29

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Hepta-Dioxins	37.32	8.720e4	8.539e4	1.02	NO	122.62	122.62
2 1,2,3,4,6,7,8-HpCDD	38.35	6.368e4	6.056e4	1.05	NO	88.265	88.265



17.10 17.15 17.20 17.25 17.30 17.35 17.40 17.45 17.50 17.55 17.60 17.65 17.70 17.75 17.80 17.85 17.90 17.95 18.00 18.05 18.10 18.15 18.20 18.25 18.30 18.35 18.40 18.45 18.50 18.55 18.60 18.65 18.70 18.75

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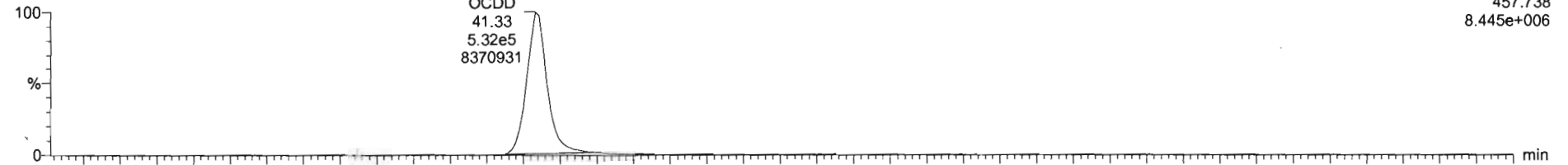
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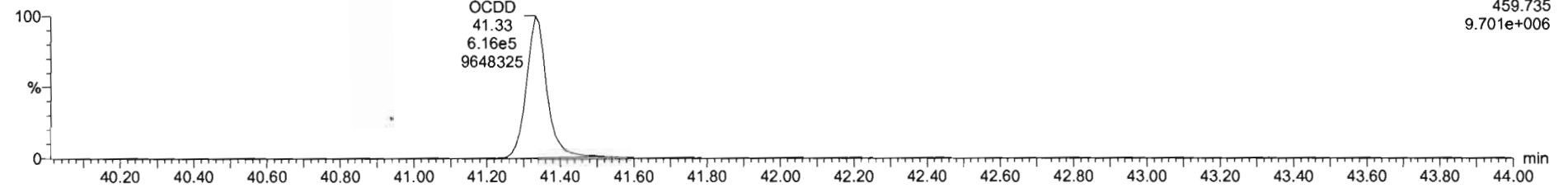
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**OCDD**

200506R2\_5

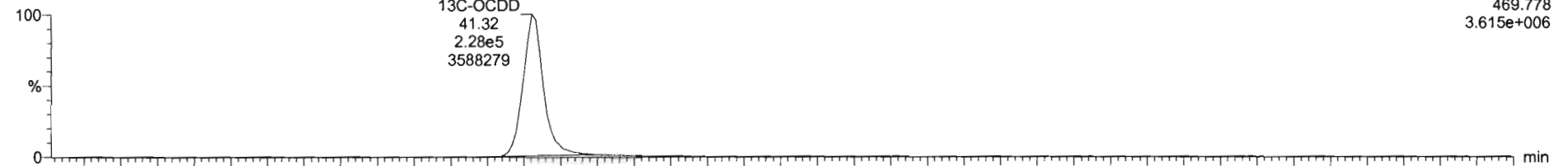


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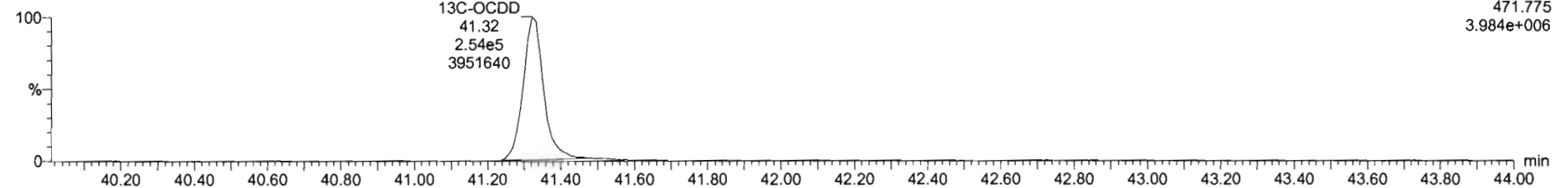


**13C-OCDD**

200506R2\_5



200506R2\_5



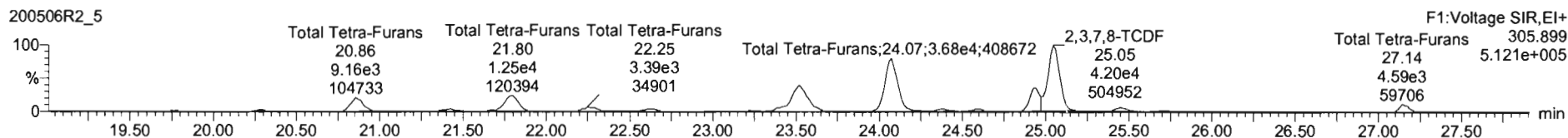
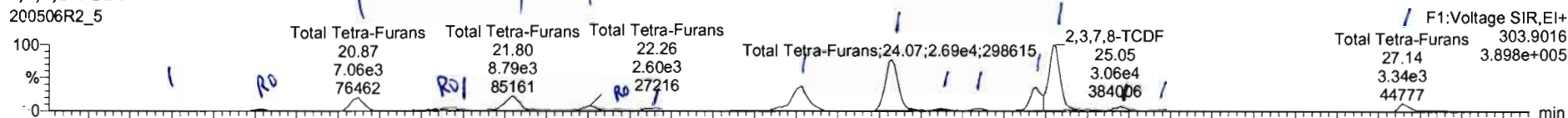


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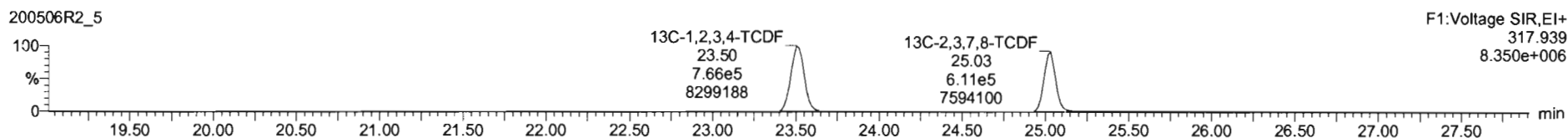
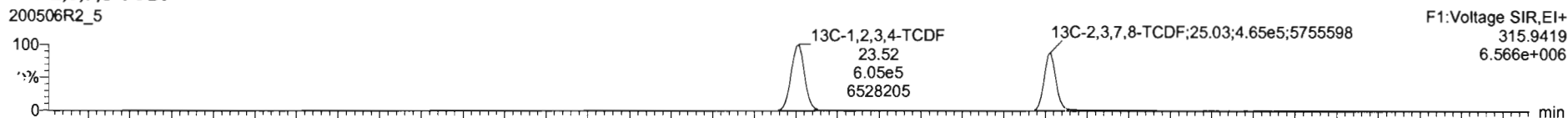
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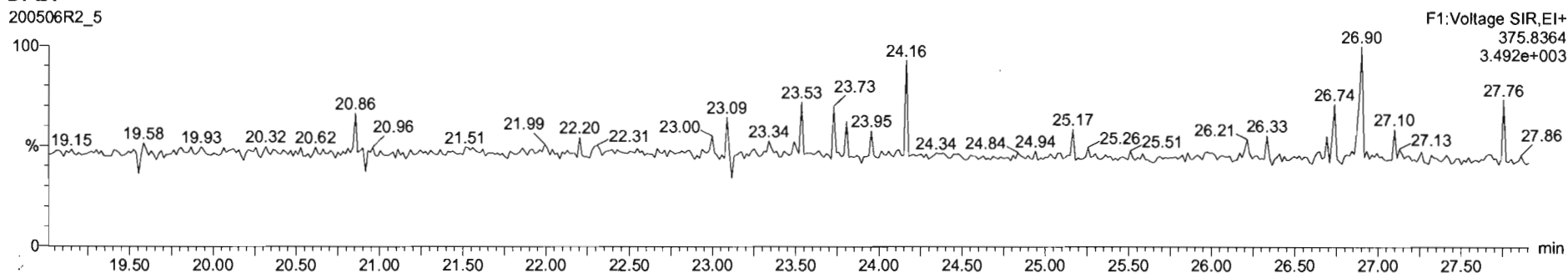
2,3,7,8-TCDF



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

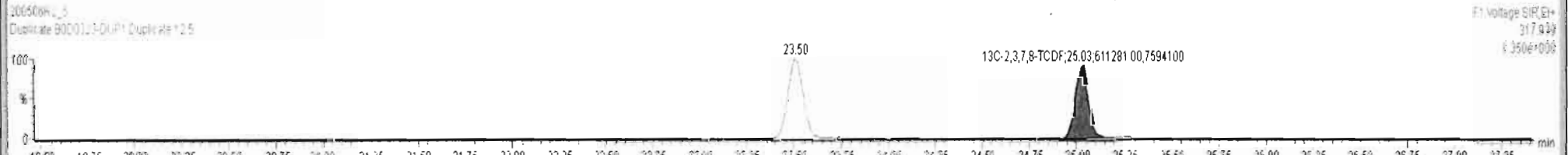
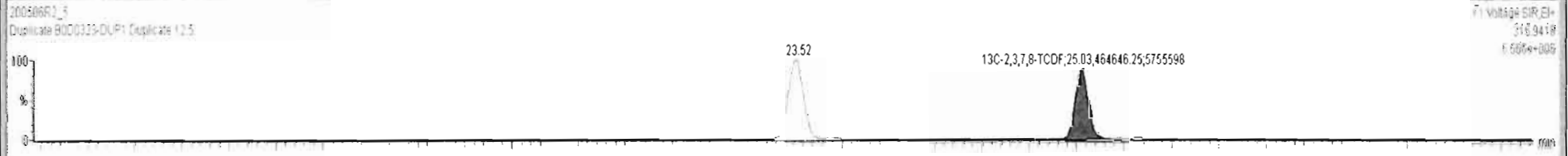
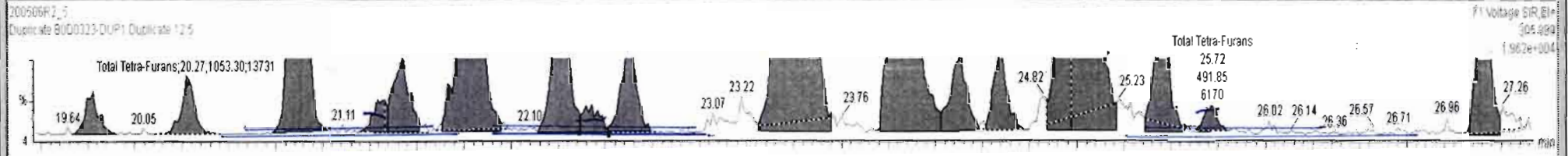
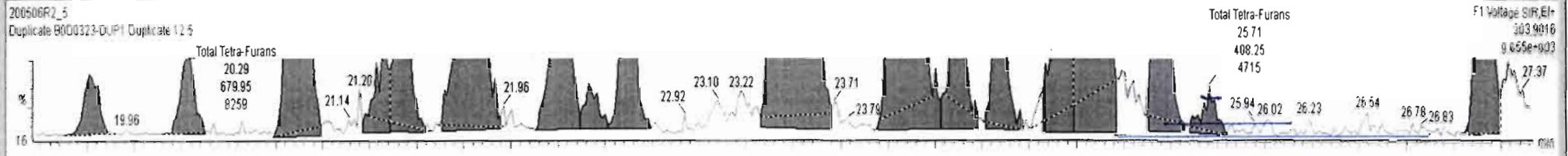


DPE1



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7871	10.030			64.6		0.169	65.5
44 1st Func. Penta-Furans				0.9102	10.030			5.29		0.0266	5.29
45 Total Penta-Furans				0.9102	10.030			66.6		0.181	66.9
46 Total Hexa-Furans				0.9217	10.030			99.8		0.196	100

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	19.76	5.453e2	7.724e2	0.71	NO	0.31027	0.31027
2 Total Tetra-Furans	20.29	6.800e2	1.053e3	0.65	YES	0.36804	0.00000
3 Total Tetra-Furans	20.87	7.180e3	9.159e3	0.78	NO	3.8473	3.8473
4 Total Tetra-Furans	21.33	7.430e2	6.482e2	1.15	YES	0.27015	0.00000
5 Total Tetra-Furans	21.42	1.345e3	1.674e3	0.80	NO	0.71081	0.71081
6 Total Tetra-Furans	21.80	8.875e3	1.259e4	0.70	NO	5.0553	5.0553
7 Total Tetra-Furans	22.26	2.601e3	3.387e3	0.77	NO	1.4101	1.4101
8 Total Tetra-Furans	22.41	3.754e2	6.080e2	0.62	YES	0.20319	0.00000
9 Total Tetra-Furans	22.62	1.352e3	1.954e3	0.68	NO	0.77861	0.77861
10 Total Tetra-Furans	23.53	1.748e4	2.429e4	0.72	NO	9.8348	9.8348



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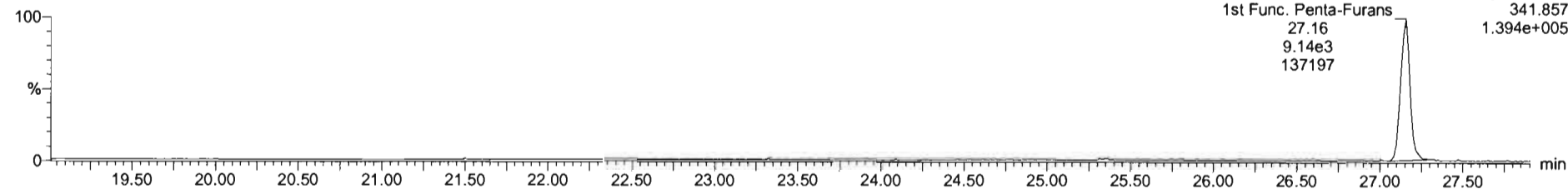
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1st Func. Penta-Furans

200506R2\_5

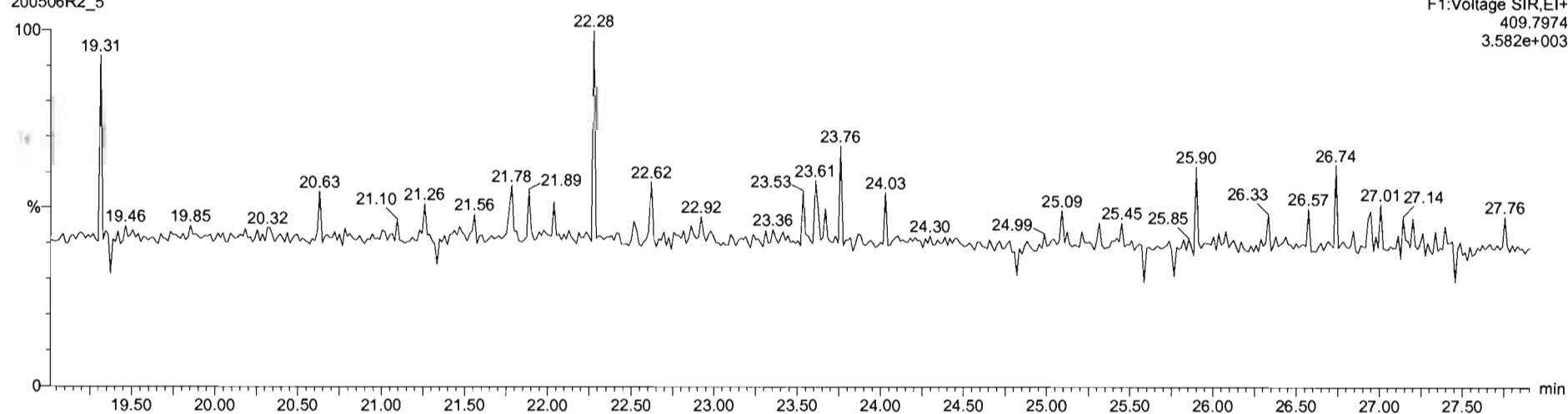


200506R2\_5



DPE6

200506R2\_5

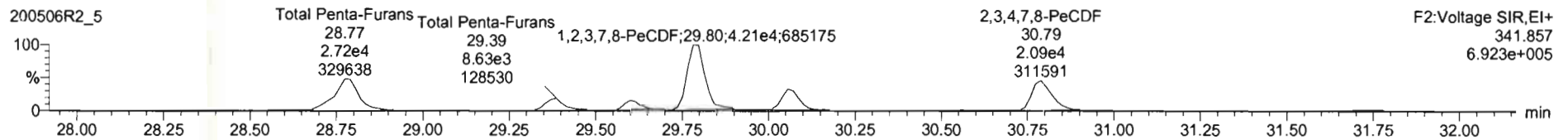
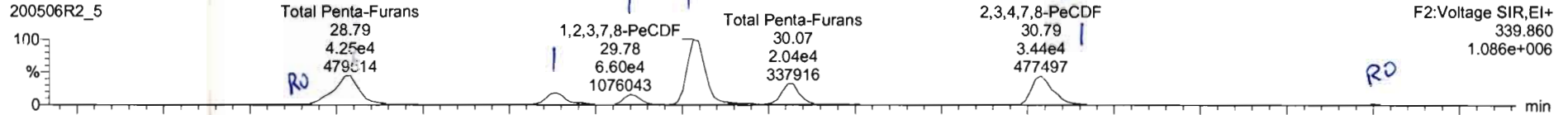


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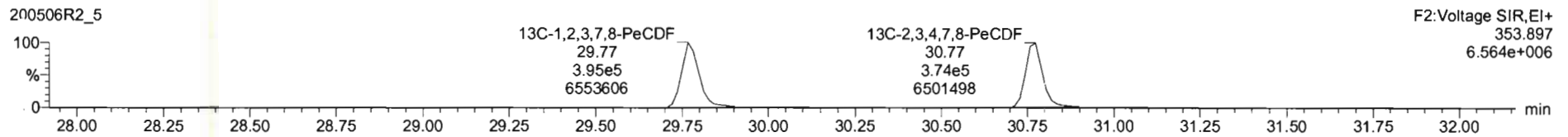
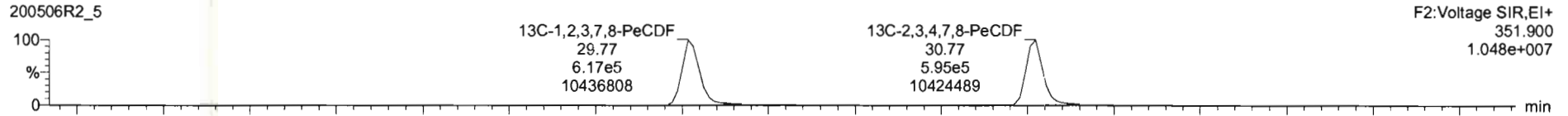
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Name: 200506R2\_5, Date: 06-May-2020, Time: 16:42:36, ID: B0D0323-DUP1 Duplicate 12.5, Description: Duplicate

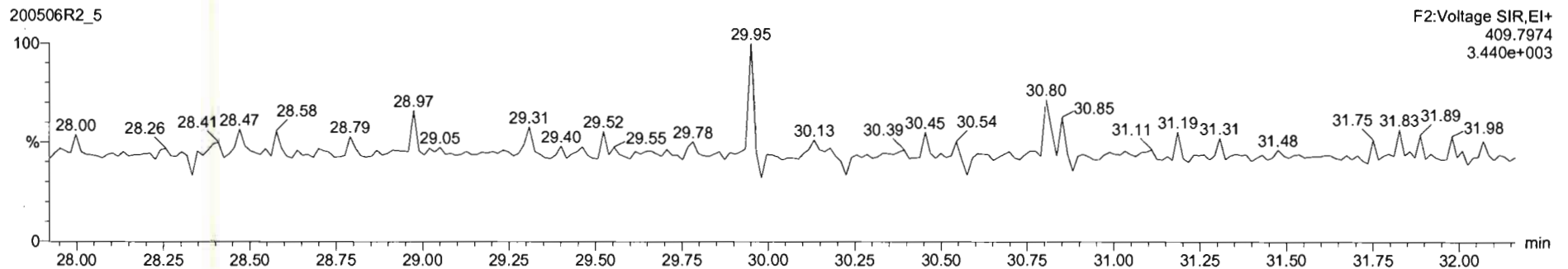
1,2,3,7,8-PeCDF



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

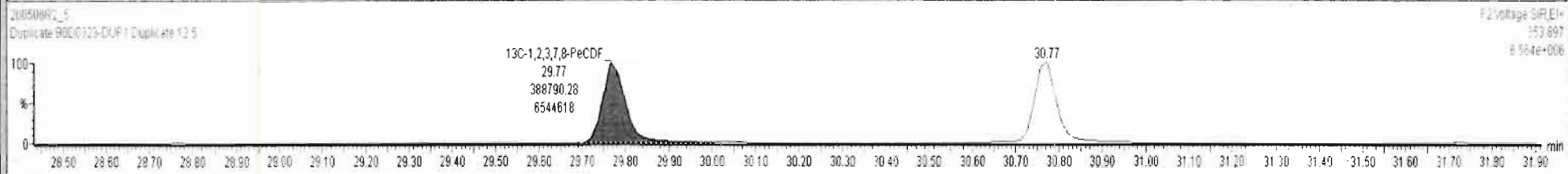
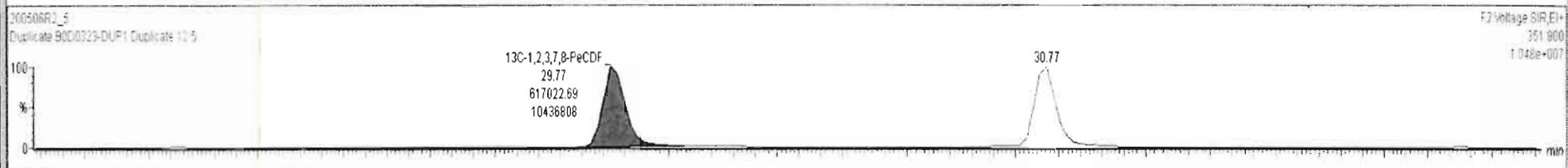
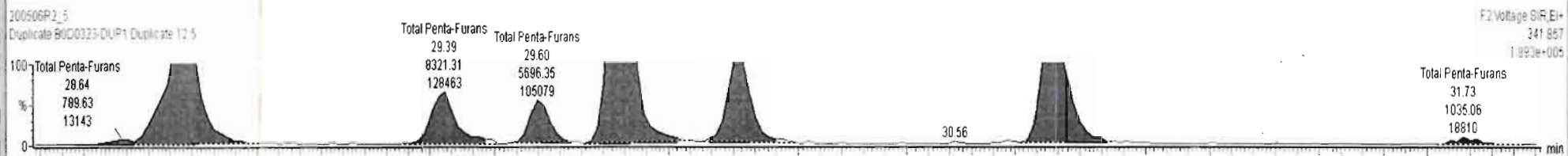
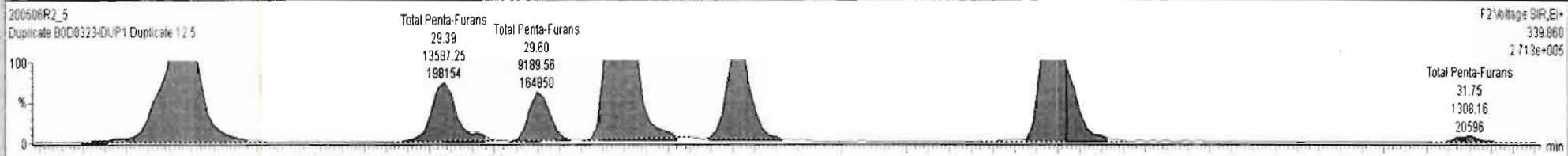


DPE2



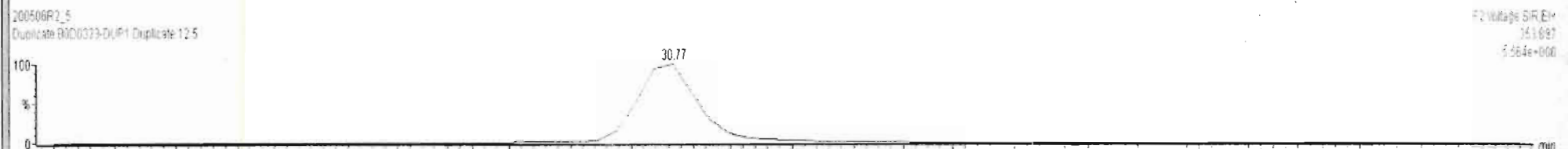
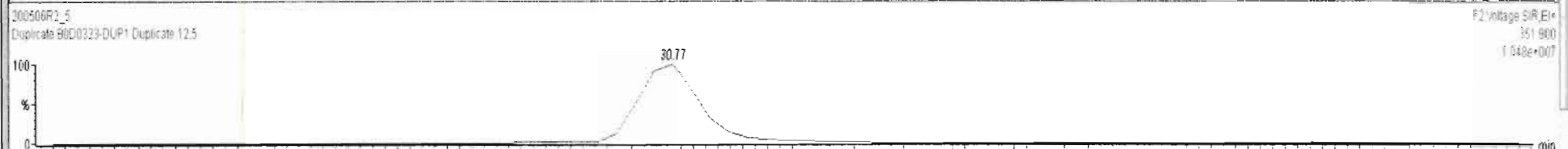
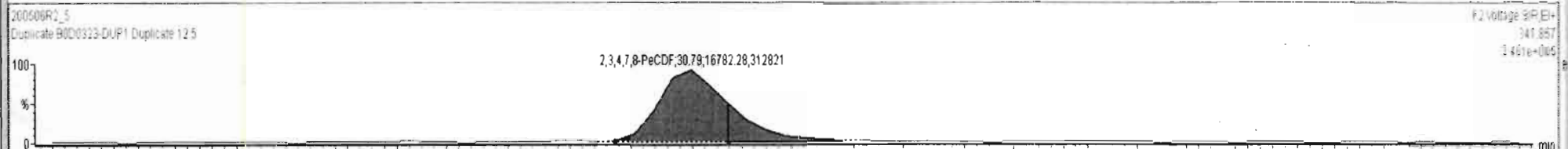
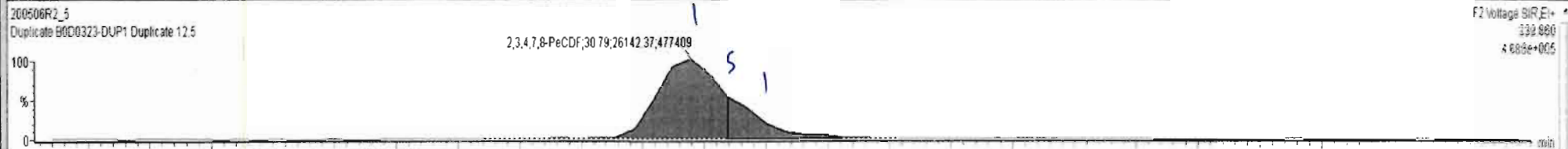
Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.030			66.8		0.161	67.6

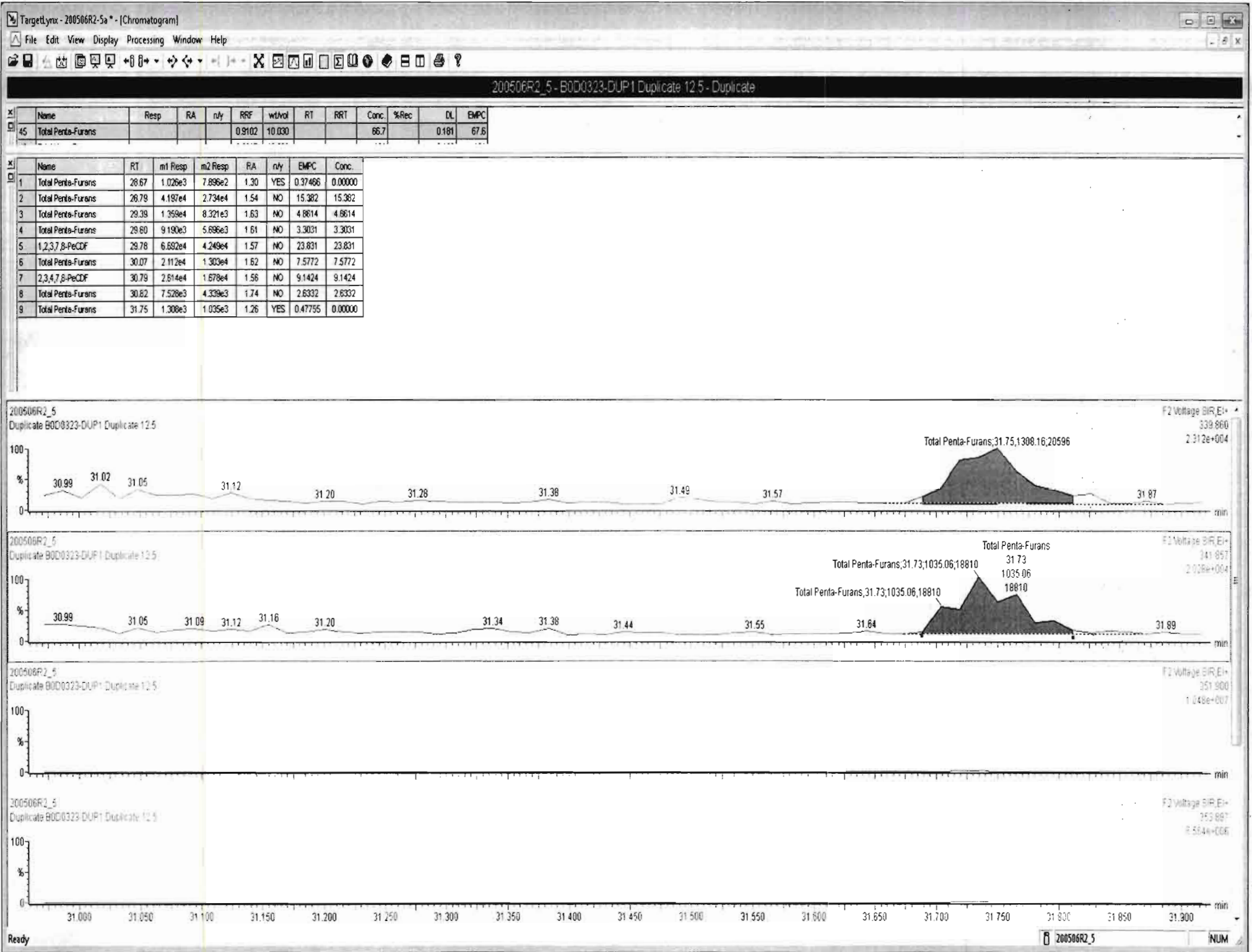
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	26.67	1.026e3	7.896e2	1.30	YES	0.37466	0.00000
2 Total Penta-Furans	26.79	4.197e4	2.734e4	1.54	NO	15.382	15.382
3 Total Penta-Furans	29.39	1.359e4	8.321e3	1.63	NO	4.8614	4.8614
4 Total Penta-Furans	29.60	9.190e3	5.696e3	1.61	NO	3.3031	3.3031
5 1,2,3,7,8-PeCDF	29.78	6.692e4	4.262e4	1.57	NO	23.860	23.860
6 Total Penta-Furans	30.07	2.112e4	1.303e4	1.62	NO	7.5772	7.5772
7 2,3,4,7,8-PeCDF	30.79	2.614e4	1.678e4	1.56	NO	9.1424	9.1424
8 Total Penta-Furans	30.82	7.528e3	4.339e3	1.74	NO	2.6332	2.6332
9 Total Penta-Furans	31.75	1.308e3	1.035e3	1.26	YES	0.47755	0.00000



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.030			66.7		0.181	67.6

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.67	1.026e3	7.896e2	1.30	YES	0.37466	0.00000
2 Total Penta-Furans	28.79	4.197e4	2.734e4	1.54	NO	15.382	15.382
3 Total Penta-Furans	29.39	1.359e4	8.321e3	1.63	NO	4.8614	4.8614
4 Total Penta-Furans	29.60	9.190e3	5.696e3	1.61	NO	3.3031	3.3031
5 1,2,3,7,8-PeCDF	29.78	6.692e4	4.249e4	1.57	NO	23.831	23.831
6 Total Penta-Furans	30.07	2.112e4	1.303e4	1.62	NO	7.5772	7.5772
7 2,3,4,7,8-PeCDF	30.79	2.614e4	1.678e4	1.56	NO	9.1424	9.1424
8 Total Penta-Furans	30.82	7.528e3	4.339e3	1.74	NO	2.6332	2.6332
9 Total Penta-Furans	31.75	1.308e3	1.035e3	1.26	YES	0.47755	0.00000



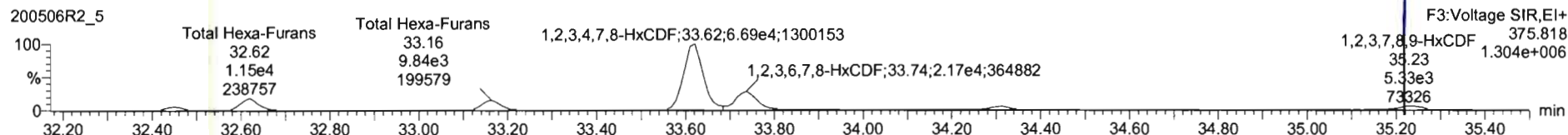
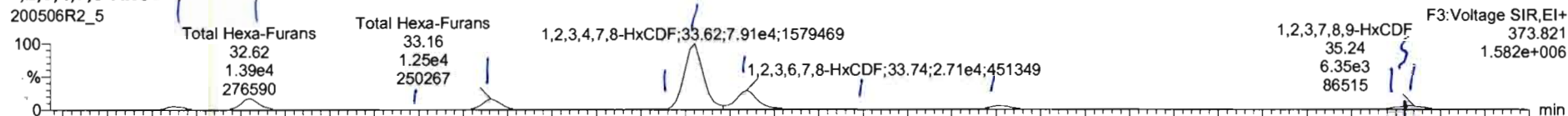


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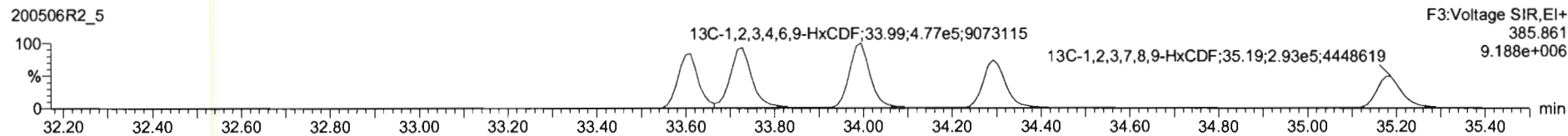
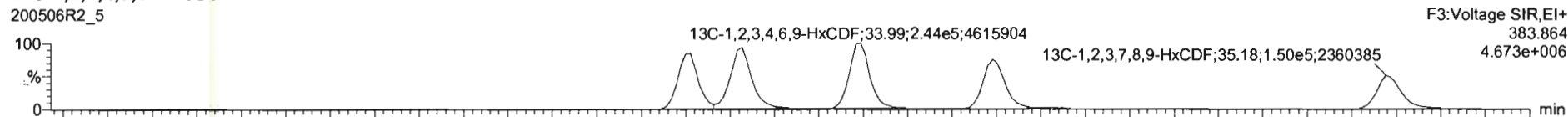
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Name: 200506R2\_5, Date: 06-May-2020, Time: 16:42:36, ID: B0D0323-DUP1 Duplicate 12.5, Description: Duplicate

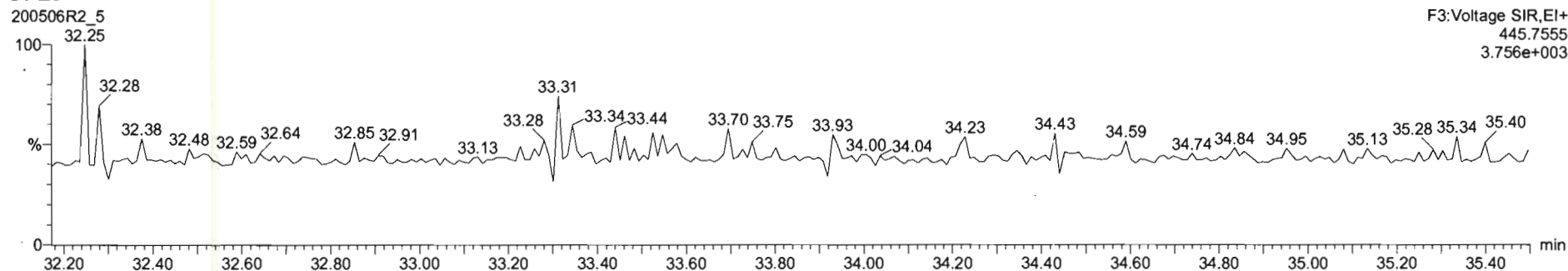
**1,2,3,4,7,8-HxCDF**



**<sup>13</sup>C-1,2,3,4,7,8-HxCDF**



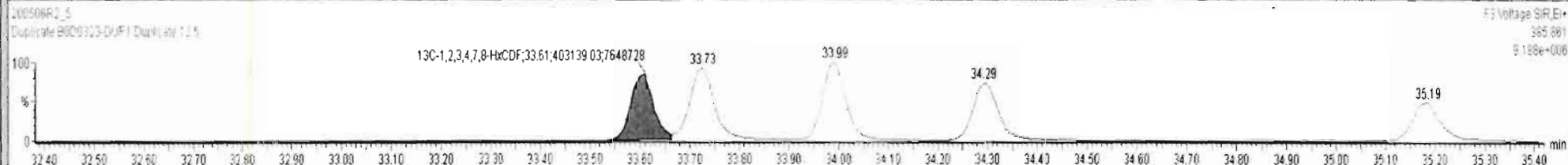
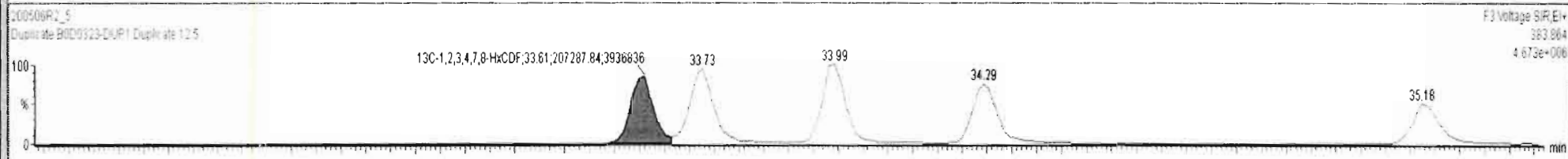
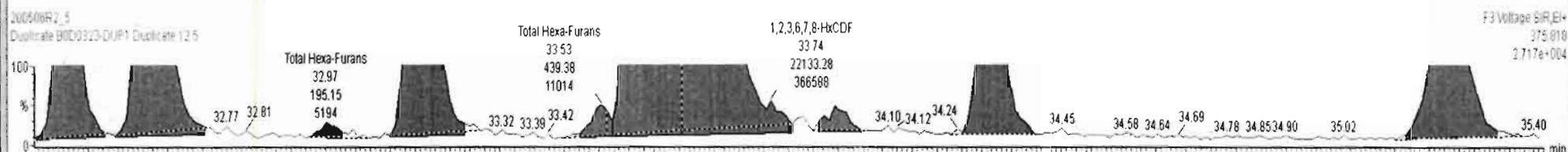
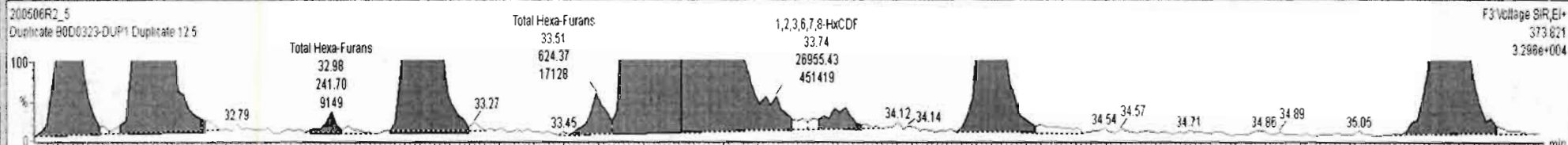
**DPE3**





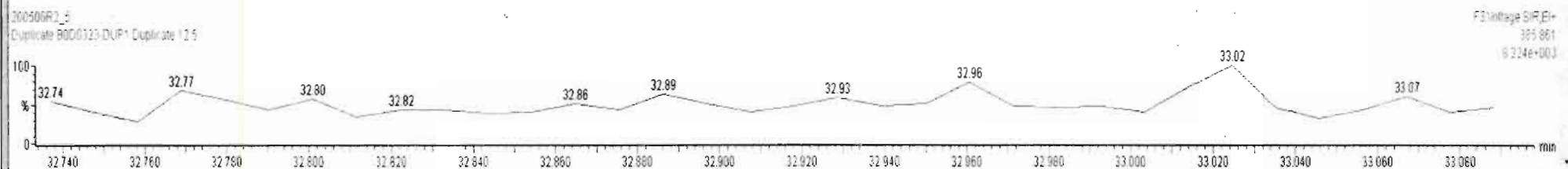
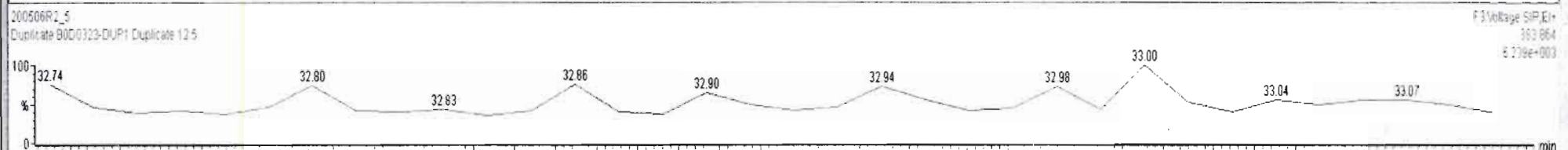
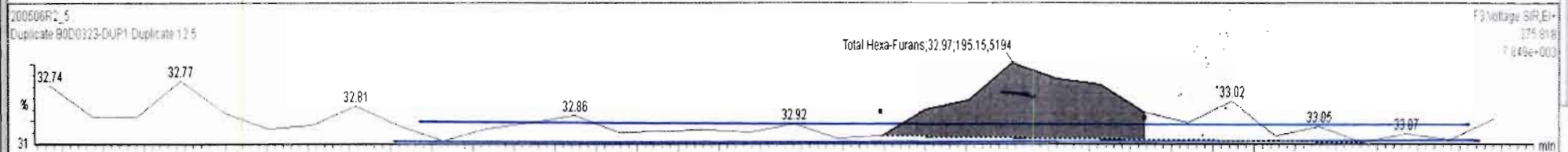
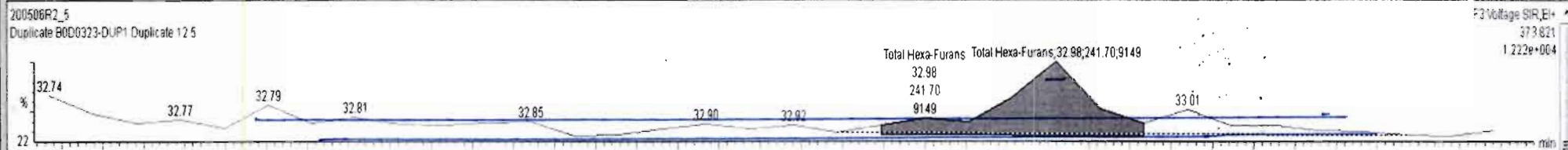
Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
46	Total Hexa-Furans			0.9217	10.030			101		0.196	101

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.	
1	Total Hexa-Furans	32.45	4.234e3	3.760e3	1.13	NO	2.9364	2.9364
2	Total Hexa-Furans	32.62	1.390e4	1.177e4	1.18	NO	9.4261	9.4261
3	Total Hexa-Furans	32.98	2.417e2	1.951e2	1.24	NO	0.16046	0.16046
4	Total Hexa-Furans	33.16	1.264e4	9.878e3	1.28	NO	8.2702	8.2702
5	Total Hexa-Furans	33.51	6.244e2	4.394e2	1.42	NO	0.39074	0.39074
6	1,2,3,4,7,8-HxCDF	33.62	7.906e4	6.701e4	1.18	NO	54.336	54.336
7	1,2,3,6,7,8-HxCDF	33.74	2.696e4	2.213e4	1.22	NO	15.675	15.675
8	Total Hexa-Furans	34.02	4.849e2	4.041e2	1.20	NO	0.32656	0.32656
9	2,3,4,6,7,8-HxCDF	34.30	4.833e3	3.742e3	1.29	NO	3.1521	3.1521
10	1,2,3,7,8,9-HxCDF	35.24	6.250e3	5.238e3	1.19	NO	5.9905	5.9905



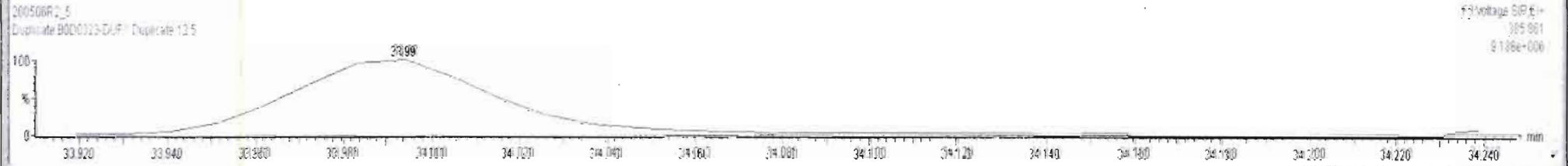
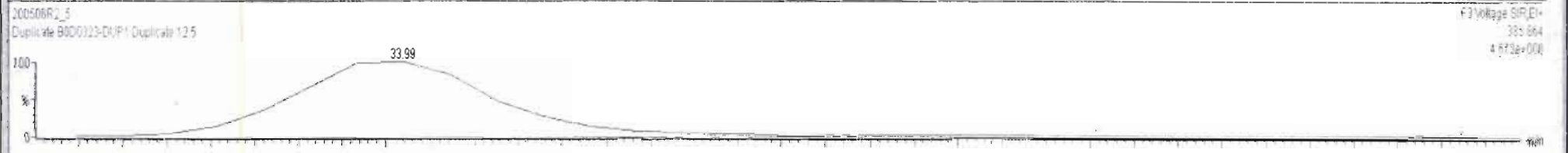
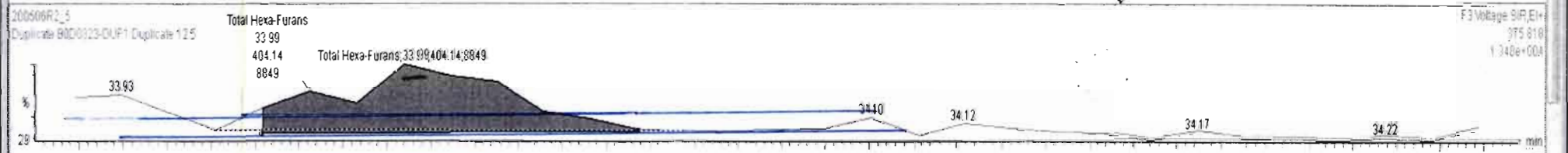
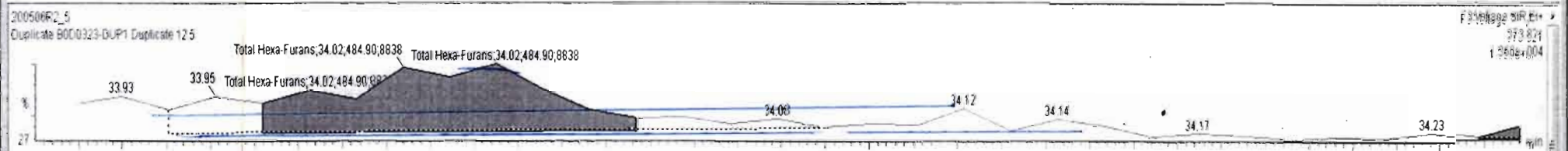
Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
46 Total Hexa-Furans				0.9217	10.030			101		0.196	101

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.45	4.234e3	3.760e3	1.13	NO	2.9364	2.9364
2 Total Hexa-Furans	32.62	1.390e4	1.177e4	1.18	NO	9.4261	9.4261
3 Total Hexa-Furans	32.98	2.417e2	1.951e2	1.24	NO	0.16046	0.16046
4 Total Hexa-Furans	33.16	1.264e4	9.878e3	1.28	NO	8.2702	8.2702
5 Total Hexa-Furans	33.51	6.244e2	4.394e2	1.42	NO	0.39074	0.39074
6 1,2,3,4,7,8-HxCDF	33.62	7.906e4	6.701e4	1.18	NO	54.336	54.336
7 1,2,3,6,7,8-HxCDF	33.74	2.696e4	2.213e4	1.22	NO	15.675	15.675
8 Total Hexa-Furans	34.02	4.849e2	4.041e2	1.20	NO	0.32656	0.32656
9 2,3,4,6,7,8-HxCDF	34.30	4.833e3	3.742e3	1.29	NO	3.1521	3.1521
10 1,2,3,7,8,9-HxCDF	35.24	6.250e3	5.238e3	1.19	NO	5.9905	5.9905



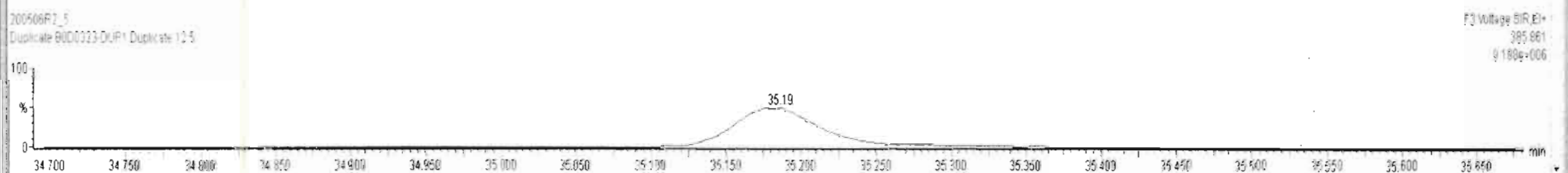
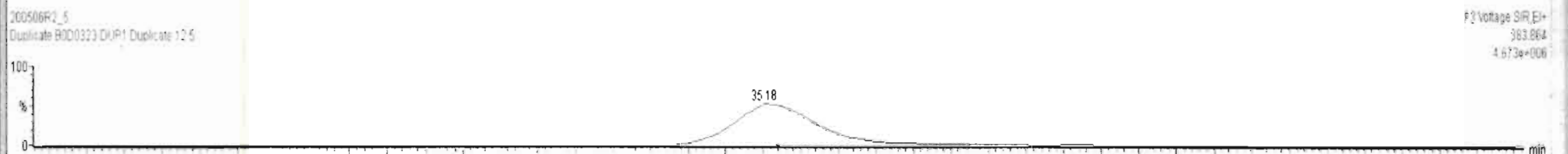
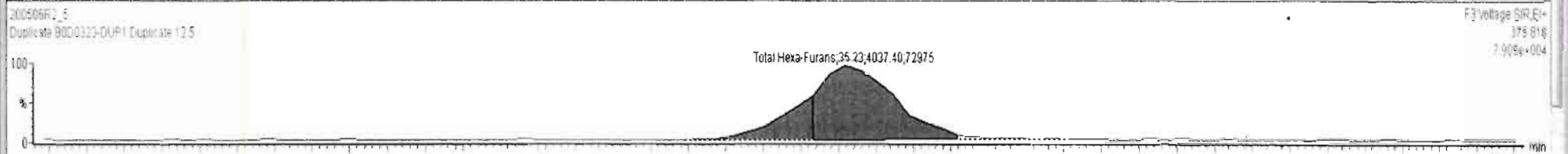
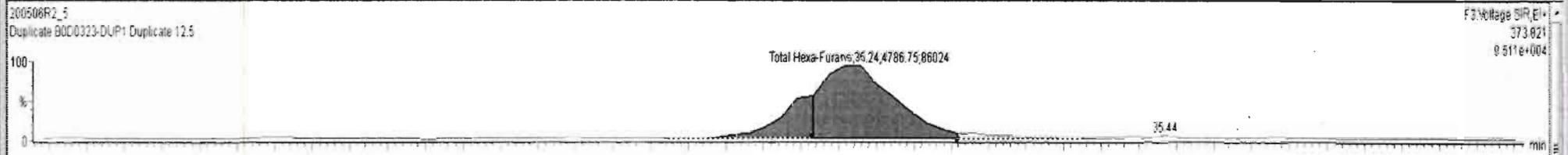
Name	Resp	RA	n/y	RPF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
46 Total Hexa-Furans				0.9217	10.030			101		0.196	101

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.45	4.234e3	3.760e3	1.13	NO	2.9364	2.9364
2 Total Hexa-Furans	32.62	1.390e4	1.177e4	1.18	NO	9.4261	9.4261
3 Total Hexa-Furans	32.98	2.523e2	2.113e2	1.19	NO	0.17029	0.17029
4 Total Hexa-Furans	33.16	1.264e4	9.878e3	1.28	NO	6.2702	6.2702
5 Total Hexa-Furans	33.51	6.244e2	4.394e2	1.42	NO	0.39074	0.39074
6 1,2,3,4,7,8-HxCDF	33.62	7.906e4	6.701e4	1.18	NO	54.336	54.336
7 1,2,3,6,7,8-HxCDF	33.74	2.686e4	2.213e4	1.22	NO	15.675	15.675
8 Total Hexa-Furans	34.02	4.849e2	4.041e2	1.20	NO	0.32656	0.32656
9 2,3,4,6,7,8-HxCDF	34.30	4.833e3	3.742e3	1.29	NO	3.1521	3.1521
10 1,2,3,7,8-HxCDF	35.24	6.250e3	5.238e3	1.19	NO	5.9905	5.9905



Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.030			66.7		0.181	67.6

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Hexa-Furans	32.45	4.234e3	3.760e3	1.13	NO	2.9364	2.9364
2 Total Hexa-Furans	32.62	1.390e4	1.177e4	1.18	NO	9.4261	9.4261
3 Total Hexa-Furans	32.98	2.417e2	1.951e2	1.24	NO	0.16046	0.16046
4 Total Hexa-Furans	33.16	1.264e4	9.878e3	1.28	NO	8.2702	8.2702
5 Total Hexa-Furans	33.51	6.244e2	4.394e2	1.42	NO	0.39074	0.39074
6 1,2,3,4,7,8-HxCDF	33.62	7.906e4	6.701e4	1.18	NO	54.336	54.336
7 1,2,3,6,7,8-HxCDF	33.74	2.696e4	2.213e4	1.22	NO	15.675	15.675
8 Total Hexa-Furans	34.02	4.849e2	4.041e2	1.20	NO	0.32656	0.32656
9 2,3,4,6,7,8-HxCDF	34.30	4.833e3	3.742e3	1.29	NO	3.1521	3.1521
10 1,2,3,7,8,9-HxCDF	35.21	1.297e3	1.084e3	1.20	NO	1.2415	1.2415
11 Total Hexa-Furans	35.24	4.787e3	4.037e3	1.19	NO	3.2413	3.2413



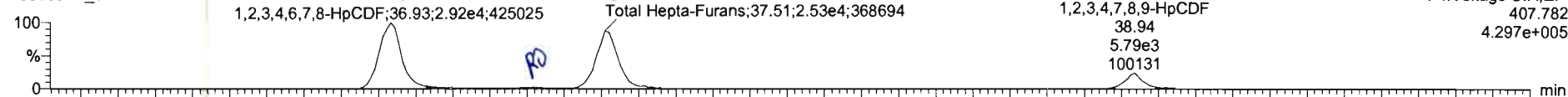
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Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

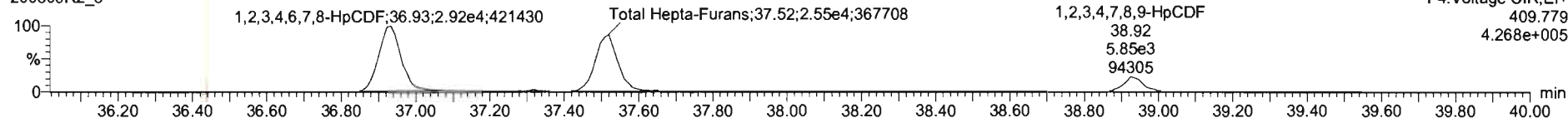
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**1,2,3,4,6,7,8-HpCDF**

200506R2\_5

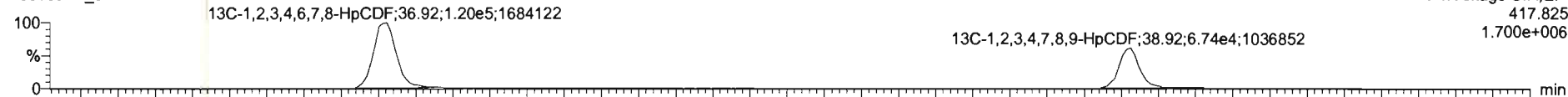


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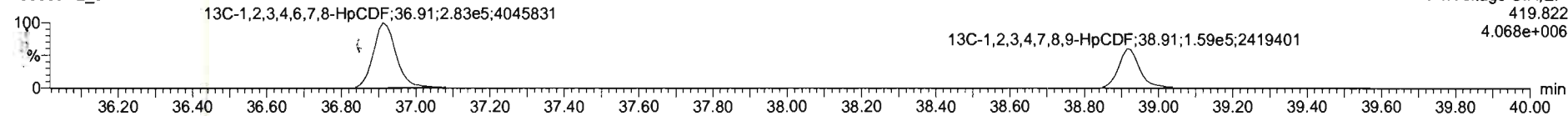


**13C-1,2,3,4,6,7,8-HpCDF**

200506R2\_5

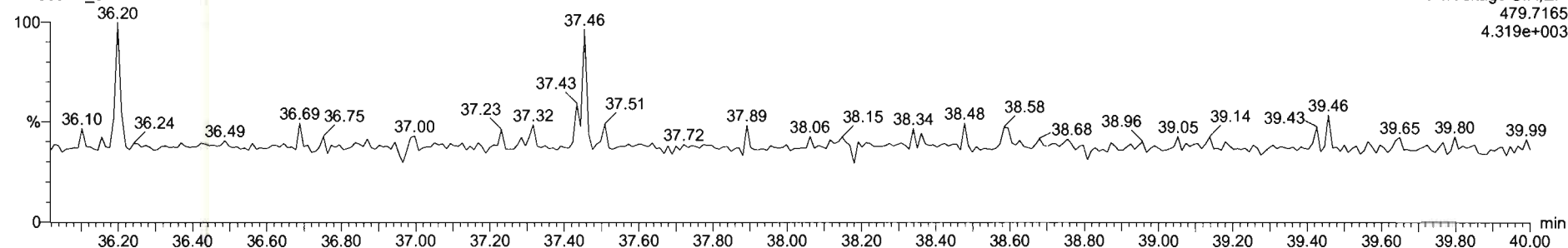


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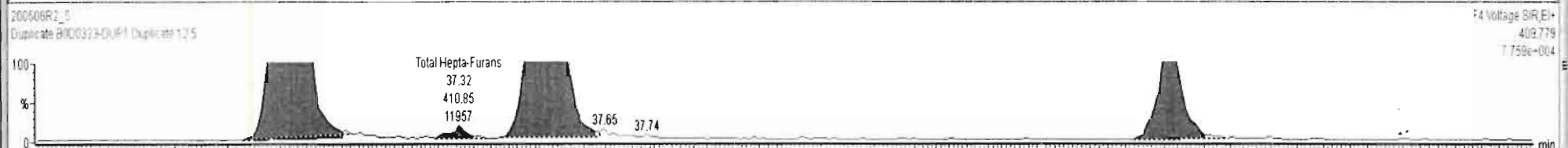
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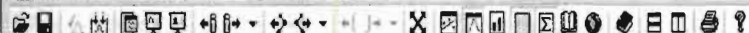
200506R2\_5



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
47 Total Hepta-Furans				0.8712	10.030			80.1		0.398	80.5

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	36.93	2.929e4	2.959e4	0.99	NO	33.416	33.416
2 Total Hepta-Furans	37.32	3.148e2	4.109e2	0.77	YES	0.44928	0.00000
3 Total Hepta-Furans	37.51	2.518e4	2.537e4	0.99	NO	36.776	36.776
4 1,2,3,4,7,8,9-HpCDF	38.94	5.633e3	5.715e3	0.99	NO	9.9036	9.9036

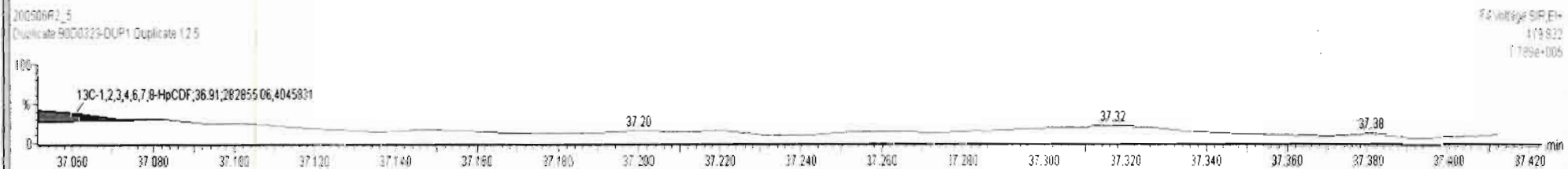
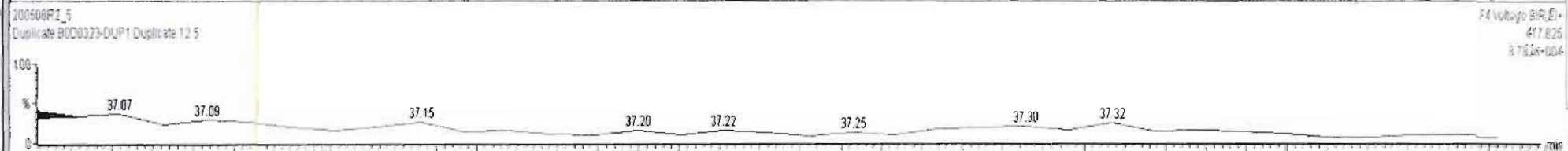
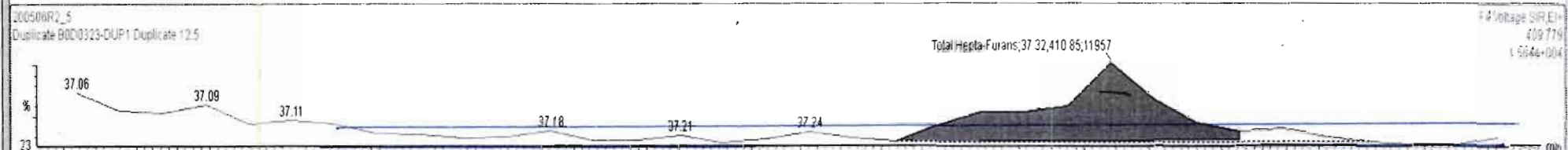
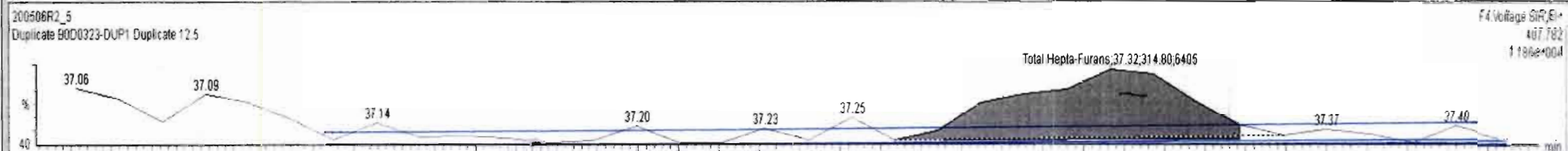




200506R2\_5 - BOD0323-DUP1 Duplicate 12.5 - Duplicate

Name	Resp	RA	n/y	RPF	wtMol	RT	RRT	Conc.	%Rec	DL	EMPC
47 Total Hepta-Furans				0.8712	10.030			80.3		0.398	80.8

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	36.93	2.929e4	2.959e4	0.99	NO	33.416	33.416
2 Total Hepta-Furans	37.32	3.149e2	4.109e2	0.77	YES	0.44928	0.00000
3 Total Hepta-Furans	37.51	2.518e4	2.537e4	0.99	NO	36.776	36.776
4 1,2,3,4,7,8,9-HpCDF	38.94	5.794e3	5.845e3	0.99	NO	10.158	10.158

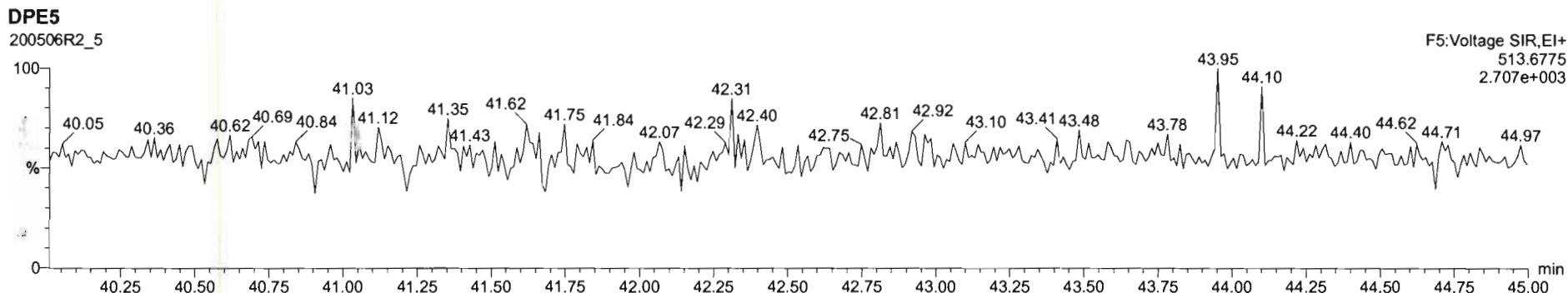
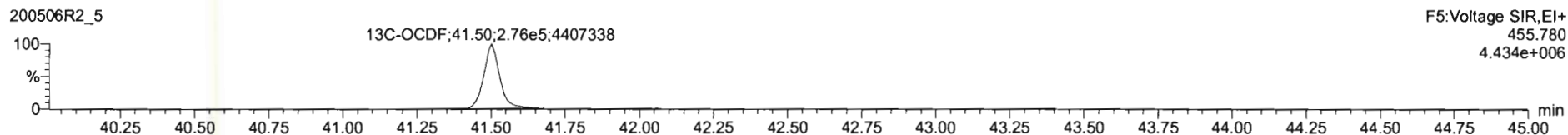
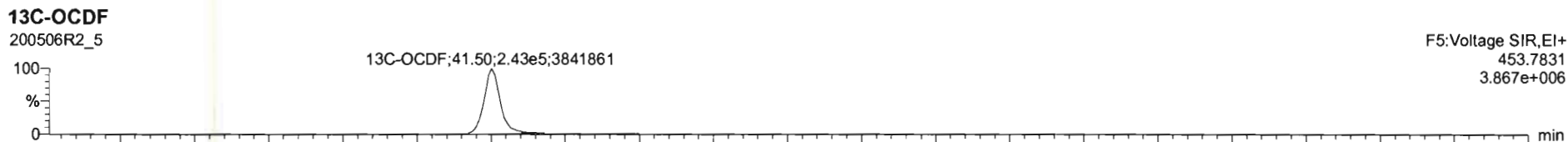
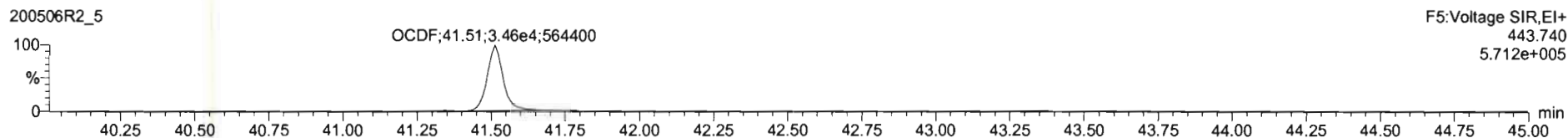
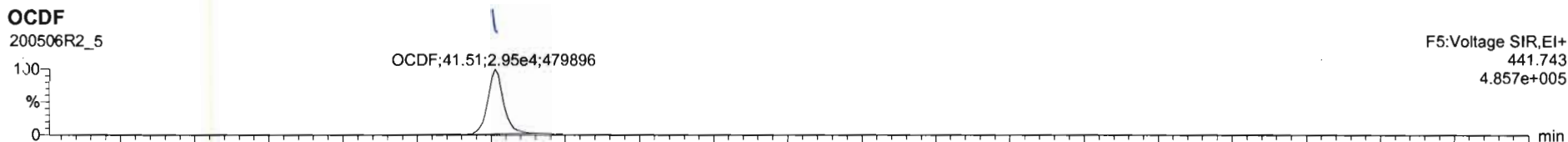


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Last Altered: Thursday, May 07, 2020 7:18:10 AM Pacific Daylight Time

Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

Name: 200506R2\_5, Date: 06-May-2020, Time: 16:42:36, ID: B0D0323-DUP1 Duplicate 12.5, Description: Duplicate



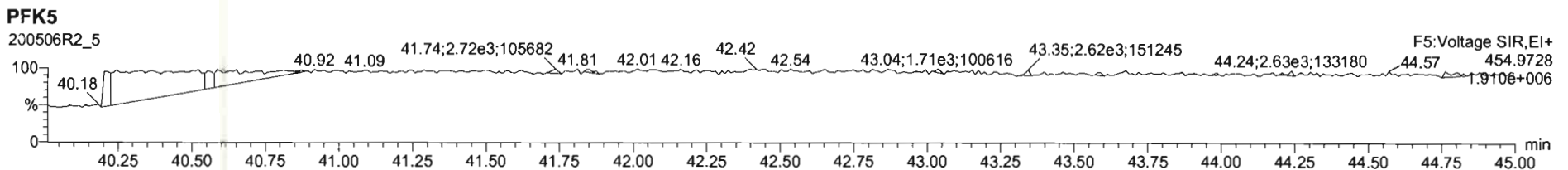
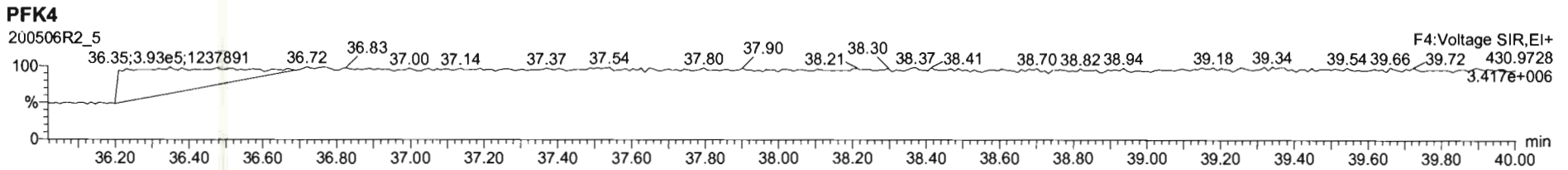
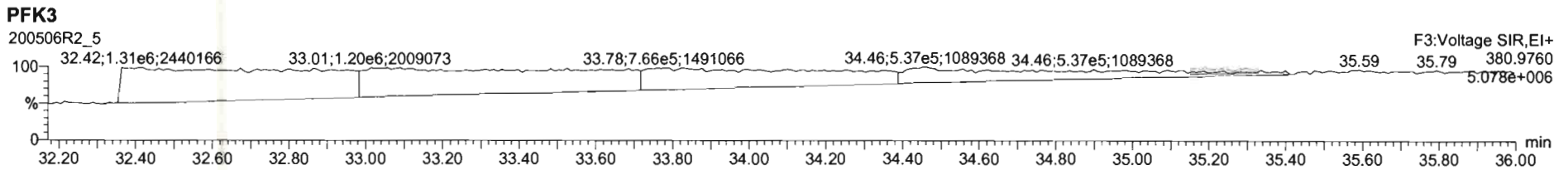
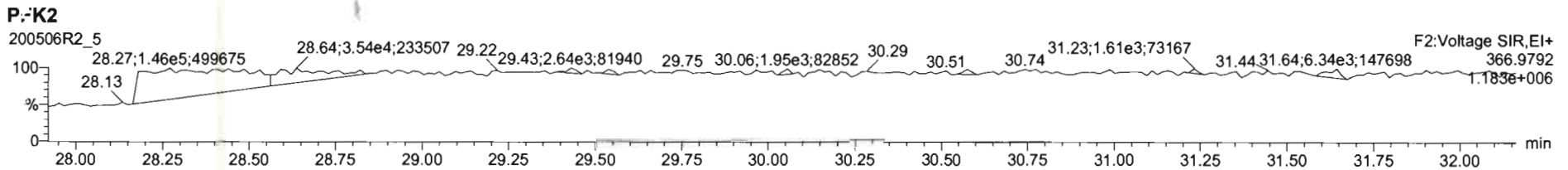
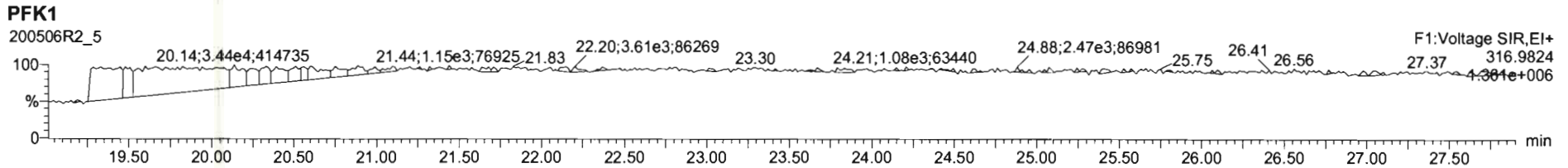


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Name: 200506R2\_5, Date: 06-May-2020, Time: 16:42:36, ID: B0D0323-DUP1 Duplicate 12.5, Description: Duplicate



Dataset: U:\VG12.PRO\Results\200506R2\200506R2-7.qld

Last Altered: Thursday, May 07, 2020 12:47:44 PM Pacific Daylight Time  
Printed: Thursday, May 07, 2020 12:48:20 PM Pacific Daylight Time

GRB 05/07/2020

C7 05/11/2020

Method: Untitled 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200506R2\_7, Date: 06-May-2020, Time: 18:15:01, ID: 2000951-02 PDI-159SC-A-00-01-200423 16.8, Description: PDI-159SC-A-00-01-200423

#	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	2.18e3	0.55	YES	0.947	10.493	26.006	25.97	1.001	1.000	0.52256		0.121	0.426
2	2 1,2,3,7,8-PeCDD	1.94e3	0.60	NO	0.942	10.493	31.101	31.11	1.001	1.001	0.62484		0.162	0.625
3	3 1,2,3,4,7,8-HxCDD	2.45e3	1.06	NO	1.06	10.493	34.494	34.49	1.000	1.000	0.72790		0.179	0.728
4	4 1,2,3,6,7,8-HxCDD	1.20e4	1.31	NO	0.915	10.493	34.580	34.60	1.000	1.001	3.3654		0.182	3.37
5	5 1,2,3,7,8,9-HxCDD	5.54e3	1.35	NO	0.915	10.493	34.867	34.89	1.000	1.001	2.0121		0.241	2.01
6	6 1,2,3,4,6,7,8-HpCDD	1.98e5	1.00	NO	0.898	10.493	38.394	38.40	1.000	1.001	99.669		0.564	99.7
7	7 OCDD	1.82e6	0.89	NO	0.933	10.493	41.332	41.34	1.000	1.000	1216.6		0.582	1220
8	8 2,3,7,8-TCDF	1.66e5	0.75	NO	0.787	10.493	25.042	25.05	1.001	1.001	37.140	(29.4)	0.218	37.1
9	9 1,2,3,7,8-PeCDF	2.25e5	1.56	NO	0.910	10.493	29.788	29.78	1.001	1.001	49.264		0.193	49.3
10	10 2,3,4,7,8-PeCDF	8.80e4	1.55	NO	0.966	10.493	30.794	30.79	1.001	1.000	18.952		0.192	19.0
11	11 1,2,3,4,7,8-HxCDF	3.47e5	1.20	NO	0.878	10.493	33.611	33.62	1.000	1.000	99.116		0.252	99.1
12	12 1,2,3,6,7,8-HxCDF	1.12e5	1.22	NO	0.874	10.493	33.738	33.74	1.000	1.000	26.324		0.241	26.3
13	13 2,3,4,6,7,8-HxCDF	1.89e4	1.21	NO	0.922	10.493	34.337	34.31	1.001	1.000	5.2931		0.286	5.29
14	14 1,2,3,7,8,9-HxCDF	1.94e4	1.24	NO	0.864	10.493	35.197	35.24	1.000	1.001	6.9483		0.389	6.95
15	15 1,2,3,4,6,7,8-HpCDF	1.48e5	1.00	NO	0.871	10.493	37.013	36.99	1.001	1.000	50.005		0.276	50.0
16	16 1,2,3,4,7,8,9-HpCDF	2.54e4	1.01	NO	1.01	10.493	38.957	38.97	1.000	1.000	15.947		0.396	15.9
17	17 OCDF	1.35e5	0.89	NO	0.802	10.493	41.513	41.52	1.000	1.000	98.047		0.196	98.0
18	18 13C-2,3,7,8-TCDD	8.37e5	0.80	NO	1.16	10.493	25.969	25.98	1.026	1.027	178.25	93.5	0.244	
19	19 13C-1,2,3,7,8-PeCDD	6.27e5	0.64	NO	0.847	10.493	31.049	31.08	1.227	1.228	182.71	95.9	0.365	
20	20 13C-1,2,3,4,7,8-HxCDD	6.03e5	1.29	NO	0.750	10.493	34.473	34.48	1.014	1.014	183.97	96.5	0.567	
21	21 13C-1,2,3,6,7,8-HxCDD	7.46e5	1.27	NO	0.963	10.493	34.585	34.58	1.017	1.017	177.14	92.9	0.442	
22	22 13C-1,2,3,7,8,9-HxCDD	5.74e5	1.22	NO	0.838	10.493	34.854	34.86	1.025	1.025	156.71	82.2	0.508	
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.21e5	1.02	NO	0.641	10.493	38.342	38.38	1.128	1.129	150.18	78.8	0.336	
24	24 13C-OCDD	6.10e5	0.90	NO	0.586	10.493	41.333	41.33	1.216	1.216	238.13	62.5	0.286	
25	25 13C-2,3,7,8-TCDF	1.08e6	0.78	NO	1.03	10.493	25.030	25.02	0.989	0.989	173.15	90.8	0.407	
26	26 13C-1,2,3,7,8-PeCDF	9.58e5	1.58	NO	0.845	10.493	29.741	29.77	1.176	1.177	187.43	98.3	0.703	
27	27 13C-2,3,4,7,8-PeCDF	9.16e5	1.59	NO	0.814	10.493	30.731	30.77	1.215	1.216	186.03	97.6	0.730	
28	28 13C-1,2,3,4,7,8-HxCDF	7.61e5	0.51	NO	1.00	10.493	33.613	33.61	0.989	0.989	173.17	90.9	0.621	
29	29 13C-1,2,3,6,7,8-HxCDF	9.24e5	0.51	NO	1.14	10.493	33.736	33.73	0.992	0.992	185.94	97.6	0.549	
30	30 13C-2,3,4,6,7,8-HxCDF	7.37e5	0.48	NO	1.02	10.493	34.303	34.30	1.009	1.009	164.78	86.5	0.610	
31	31 13C-1,2,3,7,8,9-HxCDF	6.17e5	0.51	NO	0.845	10.493	35.194	35.20	1.035	1.035	167.00	87.6	0.739	

Dataset: U:\VG12.PRO\Results\200506R2\200506R2-7.qld

Last Altered: Thursday, May 07, 2020 12:47:44 PM Pacific Daylight Time

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Name: 200506R2\_7, Date: 06-May-2020, Time: 18:15:01, ID: 2000951-02 PDI-159SC-A-00-01-200423 16.8, Description: PDI-159SC-A-00-01-200423

#	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	6.47e5	0.43	NO	0.771	10.493	36.924	36.98	1.086	1.088	191.79	101	0.407	
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.00e5	0.41	NO	0.482	10.493	38.933	38.96	1.145	1.146	142.28	74.6	0.652	
34	34 13C-OCDF	6.53e5	0.87	NO	0.669	10.493	41.503	41.51	1.221	1.221	223.38	58.6	0.301	
35	35 37Cl-2,3,7,8-TCDD	3.41e5			1.10	10.493	25.999	25.99	1.028	1.027	76.591	100	0.0577	
36	36 13C-1,2,3,4-TCDD	7.72e5	0.80	NO	1.00	10.493	25.350	25.30	1.000	1.000	190.61	100	0.283	
37	37 13C-1,2,3,4-TCDF	1.15e6	0.79	NO	1.00	10.493	23.560	23.50	1.000	1.000	190.61	100	0.421	
38	38 13C-1,2,3,4,6,9-HxCDF	8.33e5	0.51	NO	1.00	10.493	34.000	33.99	1.000	1.000	190.61	100	0.624	
39	39 Total Tetra-Dioxins				0.947	10.493	24.620		0.000		2.0717		0.121	2.77
40	40 Total Penta-Dioxins				0.942	10.493	29.960		0.000		4.6873		0.162	5.18
41	41 Total Hexa-Dioxins				0.915	10.493	33.635		0.000		32.274		0.208	32.3
42	42 Total Hepta-Dioxins				0.898	10.493	37.640		0.000		262.83		0.564	263
43	43 Total Tetra-Furans				0.787	10.493	23.610		0.000		117.99		0.218	118
44	44 1st Func. Penta-Furans				0.910	10.493	27.090		0.000		8.3497		0.0268	8.35
45	45 Total Penta-Furans				0.910	10.493	29.275		0.000		125.17		0.198	125
46	46 Total Hexa-Furans				0.922	10.493	33.555		0.000		167.51		0.273	168
47	47 Total Hepta-Furans				0.871	10.493	37.835		0.000		117.21		0.334	117

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Dataset: U:\VG12.PRO\Results\200506R2\200506R2-7.qld

Last Altered: Thursday, May 07, 2020 12:47:44 PM Pacific Daylight Time

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Method: Untitled 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200506R2\_7, Date: 06-May-2020, Time: 18:15:01, ID: 2000951-02 PDI-159SC-A-00-01-200423 16.8, Description: PDI-159SC-A-00-01-200423

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	21.83	2.562e4	2.396e4	2.050e3	2.536e3	0.81	NO	4.586e3	1.1023	1.1023	0.121
2	Total Tetra-Dioxins	22.22	5.940e3	7.272e3	5.847e2	6.484e2	0.90	YES	0.000e0	0.00000	0.27581	0.121
3	Total Tetra-Dioxins	24.19	6.446e3	7.499e3	4.655e2	6.106e2	0.76	NO	1.076e3	0.25864	0.25864	0.121
4	Total Tetra-Dioxins	25.72	1.766e4	2.058e4	1.310e3	1.648e3	0.80	NO	2.958e3	0.71081	0.71081	0.121
5	2,3,7,8-TCDD	25.97	1.040e4	1.960e4	7.705e2	1.408e3	0.55	YES	2.178e3	0.00000	0.42565	0.121

**Penta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.85	2.175e4	4.048e4	1.918e3	3.103e3	0.62	NO	5.021e3	1.6197	1.6197	0.162
2	Total Penta-Dioxins	29.32	1.027e4	1.220e4	4.806e2	6.785e2	0.71	NO	1.159e3	0.37391	0.37391	0.162
3	Total Penta-Dioxins	29.84	1.672e4	3.314e4	1.144e3	1.832e3	0.62	NO	2.975e3	0.95980	0.95980	0.162
4	Total Penta-Dioxins	30.01	1.107e4	2.132e4	6.533e2	1.166e3	0.56	NO	1.819e3	0.58689	0.58689	0.162
5	Total Penta-Dioxins	30.10	8.526e3	1.357e4	4.225e2	7.343e2	0.58	NO	1.157e3	0.37315	0.37315	0.162
6	Total Penta-Dioxins	30.33	1.270e4	1.388e4	5.923e2	1.155e3	0.51	YES	0.000e0	0.00000	0.49438	0.162
7	1,2,3,7,8-PeCDD	31.11	1.152e4	2.319e4	7.239e2	1.213e3	0.60	NO	1.937e3	0.62484	0.62484	0.162
8	Total Penta-Dioxins	31.49	4.297e3	5.290e3	1.858e2	2.761e2	0.67	NO	4.619e2	0.14899	0.14899	0.162

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.00	2.992e5	2.480e5	1.620e4	1.293e4	1.25	NO	2.913e4	9.4727	9.4727	0.208
2	Total Hexa-Dioxins	33.57	4.432e4	3.555e4	2.637e3	1.971e3	1.34	NO	4.608e3	1.4982	1.4982	0.208
3	Total Hexa-Dioxins	33.81	3.136e5	2.565e5	2.265e4	1.898e4	1.19	NO	4.163e4	13.535	13.535	0.208
4	Total Hexa-Dioxins	33.91	3.201e4	2.699e4	1.897e3	1.418e3	1.34	NO	3.316e3	1.0780	1.0780	0.208
5	1,2,3,4,7,8-HxCDD	34.49	2.543e4	2.248e4	1.263e3	1.189e3	1.06	NO	2.451e3	0.72790	0.72790	0.179
6	1,2,3,6,7,8-HxCDD	34.60	9.733e4	7.862e4	6.825e3	5.219e3	1.31	NO	1.204e4	3.3654	3.3654	0.182
7	Total Hexa-Dioxins	34.79	1.653e4	1.222e4	1.034e3	7.634e2	1.35	NO	1.797e3	0.58425	0.58425	0.208
8	1,2,3,7,8,9-HxCDD	34.89	4.327e4	3.160e4	3.180e3	2.362e3	1.35	NO	5.543e3	2.0121	2.0121	0.241

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Name: 200506R2\_7, Date: 06-May-2020, Time: 18:15:01, ID: 2000951-02 PDI-159SC-A-00-01-200423 16.8, Description: PDI-159SC-A-00-01-200423

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.38	2.457e6	2.416e6	1.631e5	1.606e5	1.02	NO	3.237e5	163.16	163.16	0.564
2	1,2,3,4,6,7,8-HpCDD	38.40	1.393e6	1.327e6	9.879e4	9.898e4	1.00	NO	1.978e5	99.669	99.669	0.564

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	19.76	6.645e3	8.989e3	5.868e2	7.487e2	0.78	NO	1.335e3	0.29845	0.29845	0.218
2	Total Tetra-Furans	20.27	2.097e4	1.961e4	1.595e3	1.861e3	0.86	NO	3.457e3	0.77250	0.77250	0.218
3	Total Tetra-Furans	20.86	3.030e5	4.158e5	2.674e4	3.607e4	0.74	NO	6.281e4	14.036	14.036	0.218
4	Total Tetra-Furans	21.41	3.177e4	3.989e4	4.342e3	5.618e3	0.77	NO	9.960e3	2.2259	2.2259	0.218
5	Total Tetra-Furans	21.66	1.444e4	2.106e4	6.117e2	8.062e2	0.76	NO	1.418e3	0.31688	0.31688	0.218
6	Total Tetra-Furans	21.77	1.511e5	2.172e5	1.543e4	2.072e4	0.74	NO	3.615e4	8.0782	8.0782	0.218
7	Total Tetra-Furans	22.26	5.134e4	6.444e4	4.685e3	6.257e3	0.75	NO	1.094e4	2.4454	2.4454	0.218
8	Total Tetra-Furans	22.41	1.471e4	1.735e4	1.212e3	1.561e3	0.78	NO	2.774e3	0.61989	0.61989	0.218
9	Total Tetra-Furans	22.62	3.289e4	3.934e4	3.138e3	3.827e3	0.82	NO	6.965e3	1.5566	1.5566	0.218
10	Total Tetra-Furans	23.09	6.141e3	6.948e3	3.900e2	5.680e2	0.69	NO	9.580e2	0.21409	0.21409	0.218
11	Total Tetra-Furans	23.24	9.163e3	1.208e4	7.219e2	9.314e2	0.78	NO	1.653e3	0.36947	0.36947	0.218
12	Total Tetra-Furans	23.42	4.024e4	5.482e4	2.859e3	3.735e3	0.77	NO	6.594e3	1.4736	1.4736	0.218
13	Total Tetra-Furans	23.52	1.137e5	1.589e5	1.233e4	1.646e4	0.75	NO	2.879e4	6.4334	6.4334	0.218
14	Total Tetra-Furans	24.07	6.398e5	8.492e5	5.705e4	7.759e4	0.74	NO	1.346e5	30.091	30.091	0.218
15	Total Tetra-Furans	24.18	1.464e4	2.229e4	7.478e2	1.097e3	0.68	NO	1.845e3	0.41234	0.41234	0.218
16	Total Tetra-Furans	24.39	2.462e4	3.331e4	2.734e3	3.454e3	0.79	NO	6.188e3	1.3828	1.3828	0.218
17	Total Tetra-Furans	24.60	1.292e4	1.371e4	9.216e2	1.093e3	0.84	NO	2.015e3	0.45029	0.45029	0.218
18	Total Tetra-Furans	24.93	1.256e5	1.593e5	7.993e3	1.056e4	0.76	NO	1.856e4	4.1470	4.1470	0.218
19	2,3,7,8-TCDF	25.05	8.400e5	1.116e6	7.146e4	9.474e4	0.75	NO	1.662e5	37.140	37.140	0.218
20	Total Tetra-Furans	25.23	1.015e4	1.371e4	9.957e2	1.271e3	0.78	NO	2.266e3	0.50649	0.50649	0.218
21	Total Tetra-Furans	25.45	4.529e4	5.817e4	3.865e3	4.999e3	0.77	NO	8.864e3	1.9809	1.9809	0.218
22	Total Tetra-Furans	25.69	7.220e3	9.973e3	4.855e2	6.885e2	0.71	NO	1.174e3	0.26237	0.26237	0.218
23	Total Tetra-Furans	27.14	7.869e4	1.027e5	5.531e3	6.895e3	0.80	NO	1.243e4	2.7770	2.7770	0.218

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200506R2\200506R2-7.qld

Last Altered: Thursday, May 07, 2020 12:47:44 PM Pacific Daylight Time

Printed: Thursday, May 07, 2020 12:48:20 PM Pacific Daylight Time

Name: 200506R2\_7, Date: 06-May-2020, Time: 18:15:01, ID: 2000951-02 PDI-159SC-A-00-01-200423 16.8, Description: PDI-159SC-A-00-01-200423

**Penta-Furans function 1**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.14	3.327e5	2.159e5	2.292e4	1.445e4	1.59	NO	3.737e4	8.3497	8.3497	0.0268

**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	4.400e4	2.499e4	2.629e3	1.644e3	1.60	NO	4.272e3	0.95462	0.95462	0.198
2	Total Penta-Furans	28.77	9.651e5	6.407e5	6.709e4	4.204e4	1.60	NO	1.091e5	24.384	24.384	0.198
3	Total Penta-Furans	28.85	9.788e4	5.581e4	3.520e3	2.070e3	1.70	NO	5.590e3	1.2491	1.2491	0.198
4	Total Penta-Furans	29.37	1.157e5	8.675e4	7.395e3	5.371e3	1.38	NO	1.277e4	2.8527	2.8527	0.198
5	Total Penta-Furans	29.45	3.405e4	2.679e4	1.554e3	1.121e3	1.39	NO	2.674e3	0.59754	0.59754	0.198
6	Total Penta-Furans	29.60	2.354e5	1.578e5	1.352e4	8.342e3	1.62	NO	2.186e4	4.8842	4.8842	0.198
7	1,2,3,7,8-PeCDF	29.78	2.369e6	1.517e6	1.374e5	8.800e4	1.56	NO	2.254e5	49.264	49.264	0.193
8	Total Penta-Furans	29.92	3.309e4	2.661e4	1.411e3	1.026e3	1.38	NO	2.436e3	0.54440	0.54440	0.198
9	Total Penta-Furans	30.06	6.995e5	4.435e5	4.210e4	2.627e4	1.60	NO	6.836e4	15.275	15.275	0.198
10	2,3,4,7,8-PeCDF	30.79	9.915e5	6.039e5	5.351e4	3.452e4	1.55	NO	8.803e4	18.952	18.952	0.192
11	Total Penta-Furans	30.82	5.026e5	3.129e5	1.341e4	8.902e3	1.51	NO	2.231e4	4.9849	4.9849	0.198
12	Total Penta-Furans	31.74	5.621e4	3.812e4	3.374e3	2.112e3	1.60	NO	5.486e3	1.2259	1.2259	0.198

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.45	1.159e5	9.424e4	6.199e3	5.120e3	1.21	NO	1.132e4	3.0813	3.0813	0.273
2	Total Hexa-Furans	32.62	4.999e5	4.213e5	2.523e4	2.106e4	1.20	NO	4.629e4	12.602	12.602	0.273
3	Total Hexa-Furans	33.16	4.585e5	3.867e5	2.372e4	2.040e4	1.16	NO	4.412e4	12.010	12.010	0.273
4	Total Hexa-Furans	33.51	2.574e4	2.147e4	1.241e3	8.841e2	1.40	NO	2.125e3	0.57839	0.57839	0.273
5	1,2,3,4,7,8-HxCDF	33.62	3.503e6	2.932e6	1.896e5	1.578e5	1.20	NO	3.475e5	99.116	99.116	0.252
6	1,2,3,6,7,8-HxCDF	33.74	9.225e5	7.781e5	6.130e4	5.026e4	1.22	NO	1.116e5	26.324	26.324	0.241
7	2,3,4,6,7,8-HxCDF	34.31	1.541e5	1.389e5	1.030e4	8.549e3	1.21	NO	1.885e4	5.2931	5.2931	0.286
8	1,2,3,7,8,9-HxCDF	35.24	1.731e5	1.401e5	1.076e4	8.674e3	1.24	NO	1.943e4	6.9483	6.9483	0.389
9	Total Hexa-Furans	35.27	1.216e5	1.042e5	3.244e3	2.477e3	1.31	NO	5.721e3	1.5573	1.5573	0.273

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200506R2\200506R2-7.qld

Last Altered: Thursday, May 07, 2020 12:47:44 PM Pacific Daylight Time

Printed: Thursday, May 07, 2020 12:48:20 PM Pacific Daylight Time

Name: 200506R2\_7, Date: 06-May-2020, Time: 18:15:01, ID: 2000951-02 PDI-159SC-A-00-01-200423 16.8, Description: PDI-159SC-A-00-01-200423

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	36.99	9.681e5	9.838e5	7.375e4	7.407e4	1.00	NO	1.478e5	50.005	50.005	0.276
2	Total Hepta-Furans	37.40	1.630e4	1.681e4	1.052e3	9.891e2	1.06	NO	2.041e3	0.94343	0.94343	0.334
3	Total Hepta-Furans	37.58	7.556e5	7.847e5	5.443e4	5.444e4	1.00	NO	1.089e5	50.318	50.318	0.334
4	1,2,3,4,7,8,9-HpCDF	38.97	2.235e5	2.241e5	1.277e4	1.263e4	1.01	NO	2.539e4	15.947	15.947	0.396

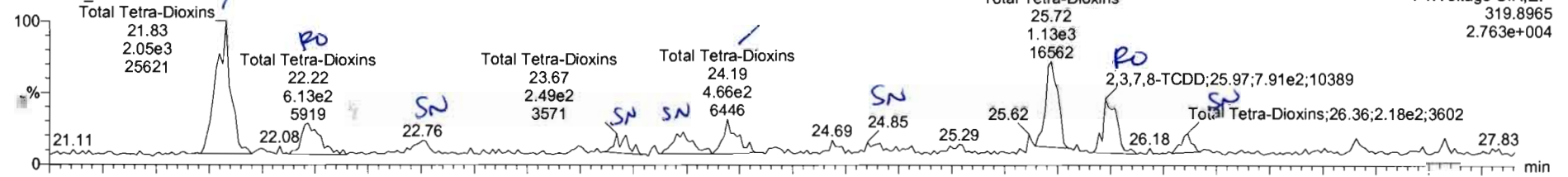
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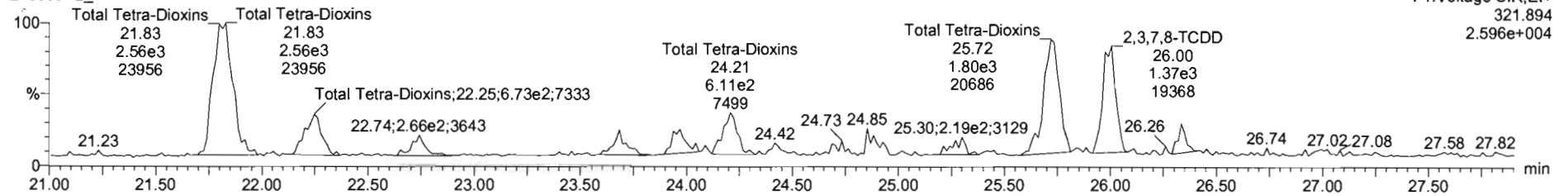
2,3,7,8-TCDD

200506R2\_7



F1: Voltage SIR, EI+  
319.8965  
2.763e+004

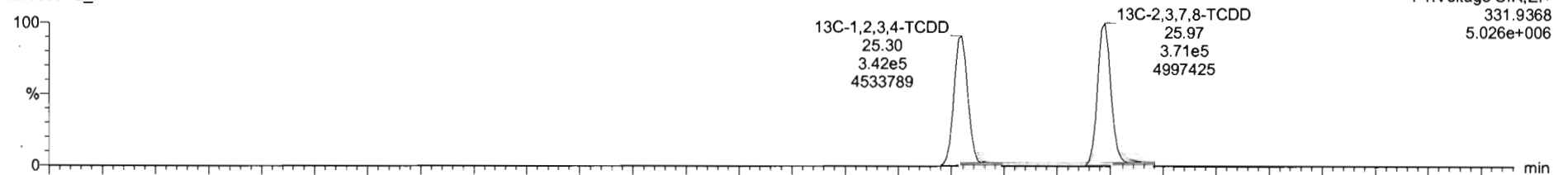
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F1: Voltage SIR, EI+  
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2.596e+004

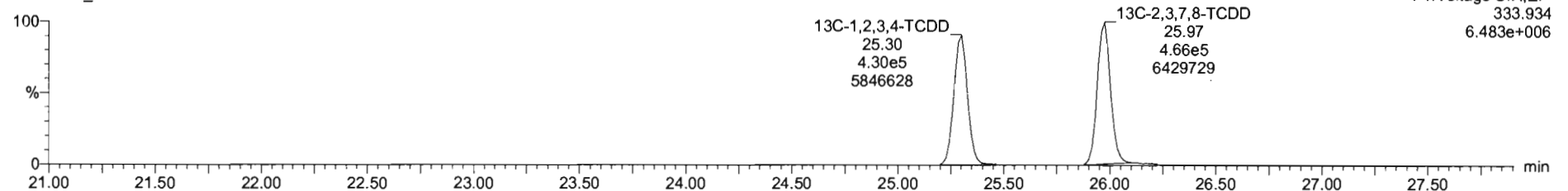
13C-2,3,7,8-TCDD

200506R2\_7



F1: Voltage SIR, EI+  
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5.026e+006

200506R2\_7

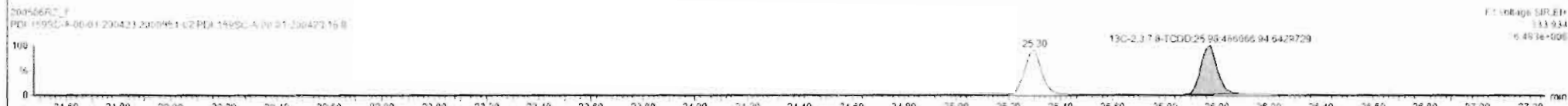
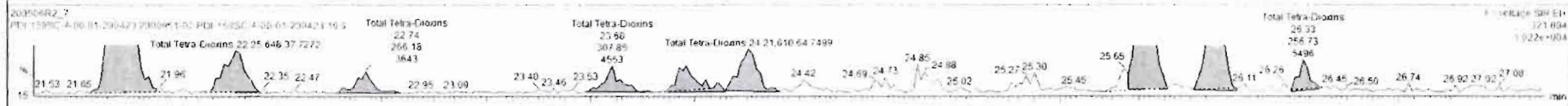
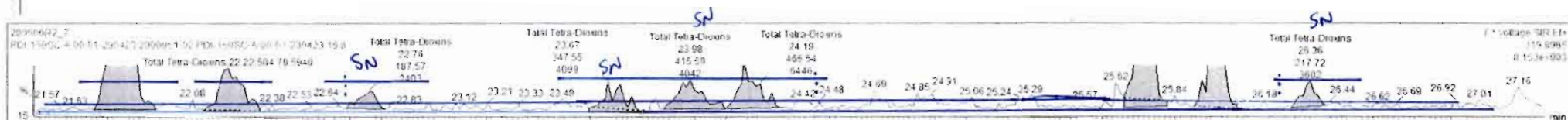


F1: Voltage SIR, EI+  
333.934  
6.483e+006



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.493			2.29		0.121	3.32
40 Total Penta-Dioxins				0.9425	10.493			4.01		0.162	5.97
41 Total Hexa-Dioxins				0.9145	10.493			30.6		0.290	32.6

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Dioxins	21.33	2.050e3	2.550e3	0.81	NO	1.1023	1.1023
2 Total Tetra-Dioxins	22.22	5.847e2	6.484e2	0.90	YES	0.27581	0.00000
3 Total Tetra-Dioxins	22.76	1.876e2	2.062e2	0.70	NO	0.10505	0.10905
4 Total Tetra-Dioxins	23.67	3.475e2	3.079e2	1.12	YES	0.13098	0.00000
5 Total Tetra-Dioxins	23.98	4.156e2	4.507e2	0.92	YES	0.19172	0.00000
6 Total Tetra-Dioxins	24.19	4.855e2	6.105e2	0.79	NO	0.25884	0.25684
7 Total Tetra-Dioxins	25.72	1.310e3	1.845e3	0.80	NO	0.71081	0.71081
8 2,3,7,8-TCDD	25.97	7.705e2	1.408e3	0.65	YES	0.42585	0.00000
9 Total Tetra-Dioxins	26.36	1.177e2	2.567e2	0.85	NO	0.11403	0.11403



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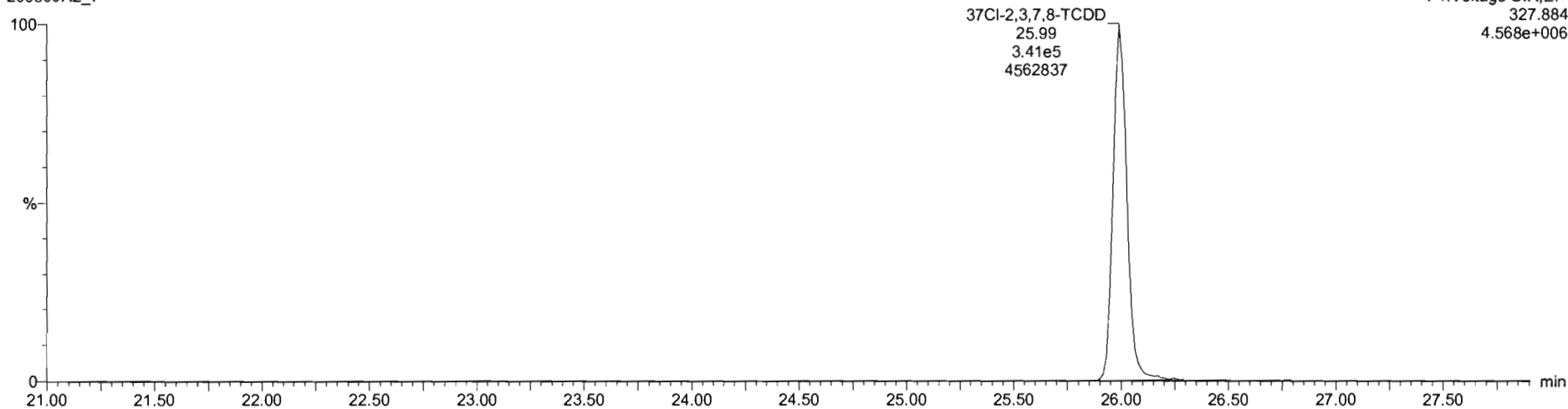
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Name: 200506R2\_7, Date: 06-May-2020, Time: 18:15:01, ID: 2000951-02 PDI-159SC-A-00-01-200423 16.8, Description: PDI-159SC-A-00-01-200423

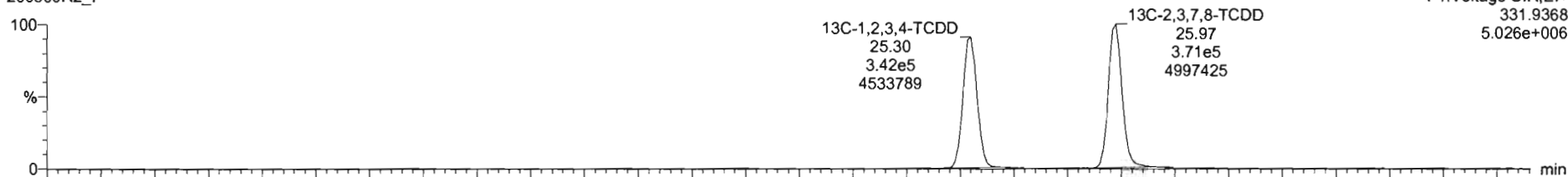
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200506R2\_7

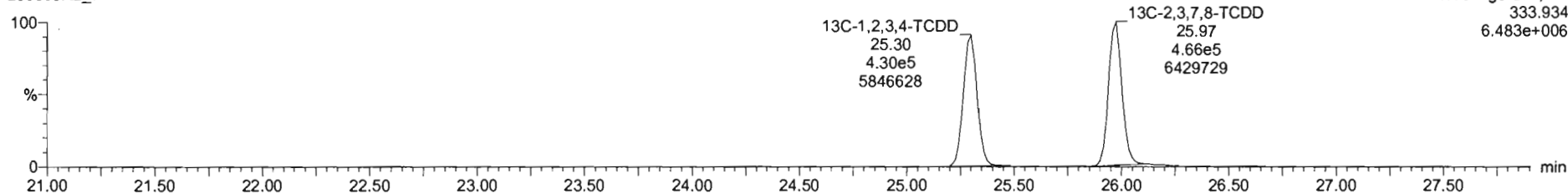


**13C-1,2,3,4-TCDD**

200506R2\_7



200506R2\_7



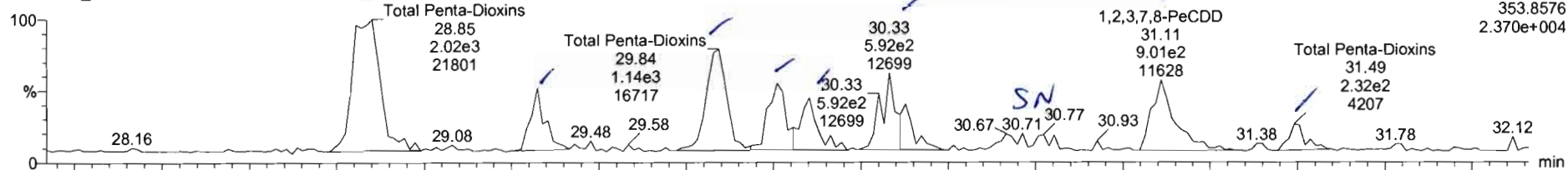
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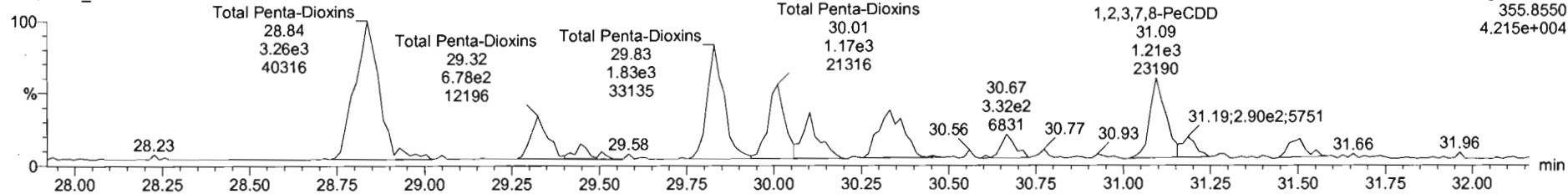
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**1,2,3,7,8-PeCDD**

200506R2\_7

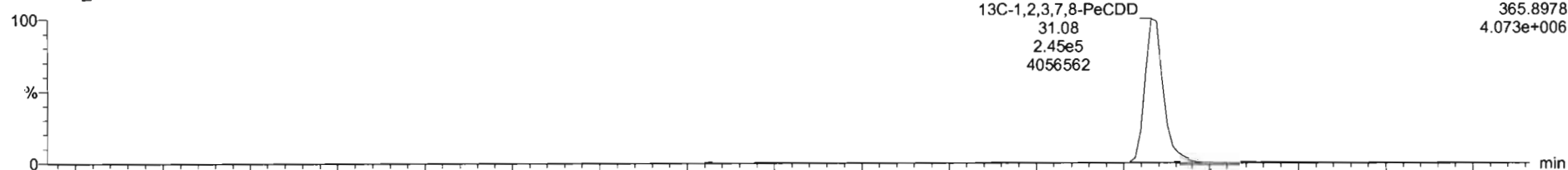


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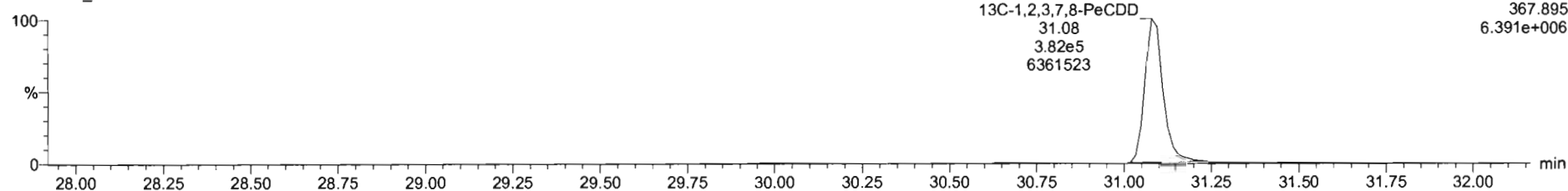


**13C-1,2,3,7,8-PeCDD**

200506R2\_7

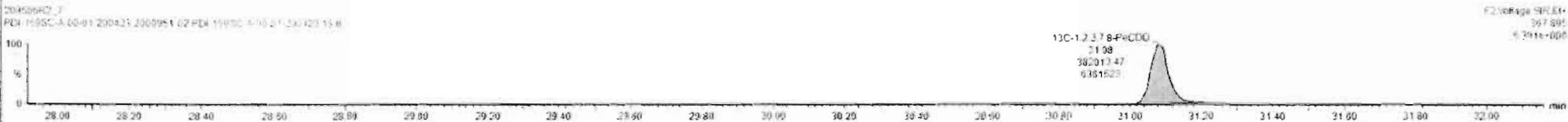
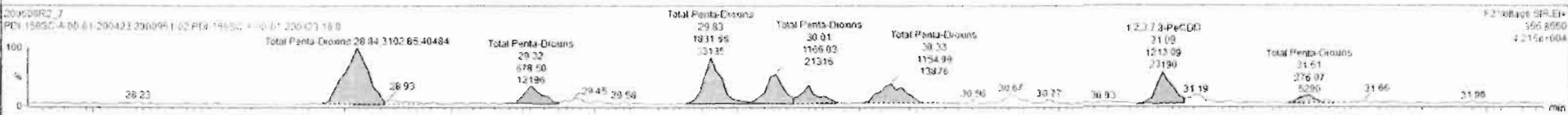
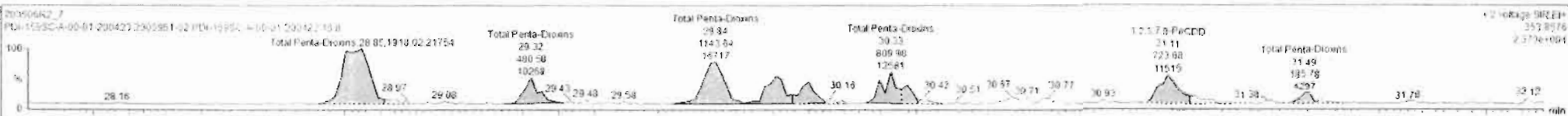


200506R2\_7



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.493			2.07		0.121	2.77
40 Total Penta-Dioxins				0.6425	10.493			5.32		0.182	5.32
41 Total Hexa-Dioxins				0.9145	10.493			30.0		0.200	32.6

Name	RT	wt Resp	nc Resp	RA	n/y	EMPC	Conc
1 Total Penta-Dioxins	28.85	1.518e2	7.163e1	0.52	NO	1.6197	1.6197
2 Total Penta-Dioxins	29.32	4.806e2	6.785e2	0.71	NO	0.37391	0.37391
3 Total Penta-Dioxins	29.84	1.144e3	1.332e3	0.62	NO	0.95960	0.95960
4 Total Penta-Dioxins	30.01	6.533e2	1.496e3	0.58	NO	0.59689	0.59689
5 Total Penta-Dioxins	30.10	4.225e2	7.347e2	0.55	NO	0.37315	0.37315
6 Total Penta-Dioxins	30.33	8.190e2	1.155e3	0.70	NO	0.83268	0.83268
7 1,2,3,7,8-PeCDD	31.11	7.229e2	1.213e3	0.60	NO	0.82484	0.82484
8 Total Penta-Dioxins	31.49	1.856e2	2.781e2	0.67	NO	0.14869	0.14299



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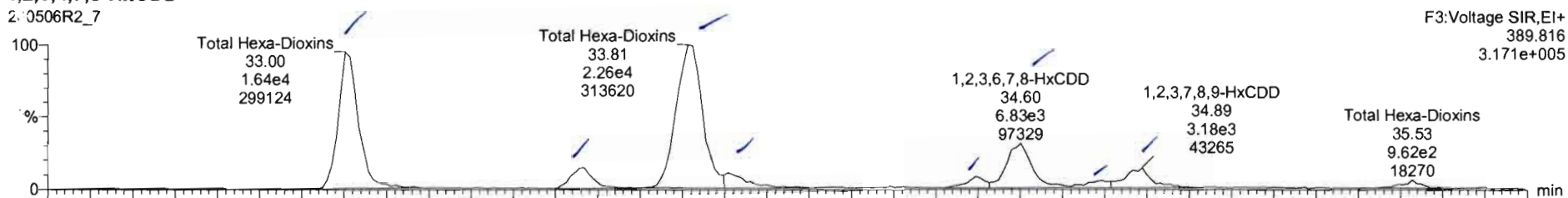
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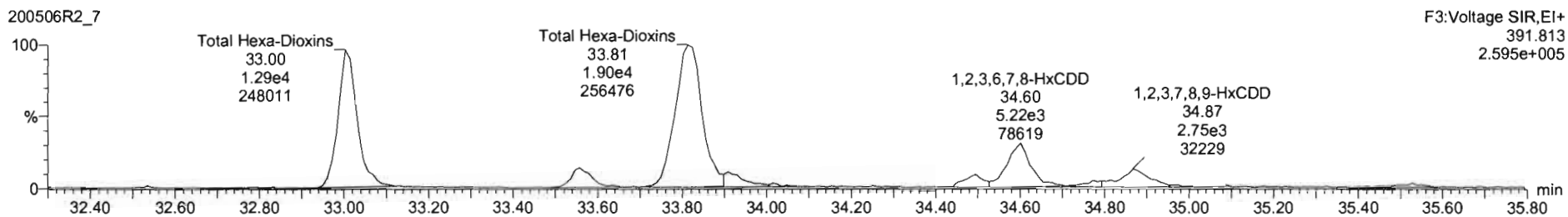
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1,2,3,4,7,8-HxCDD

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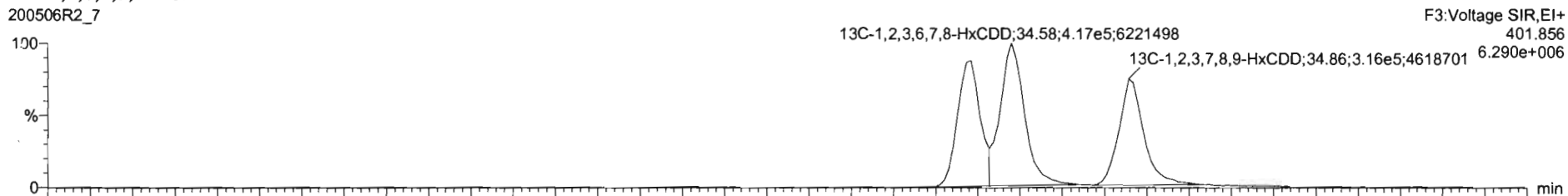


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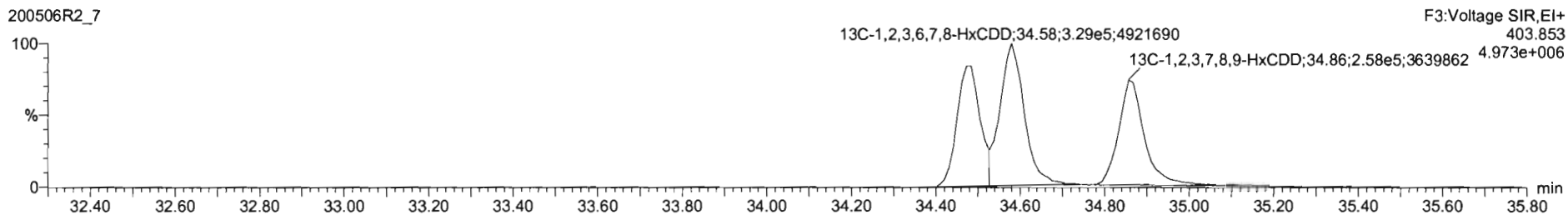


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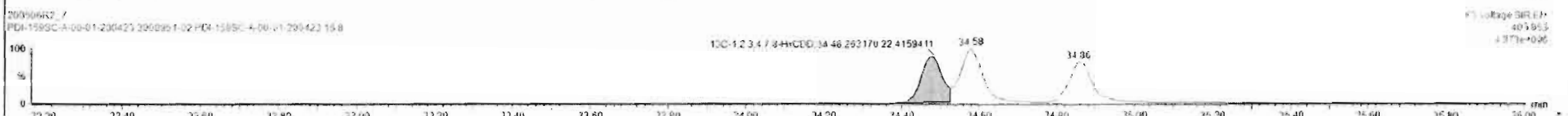
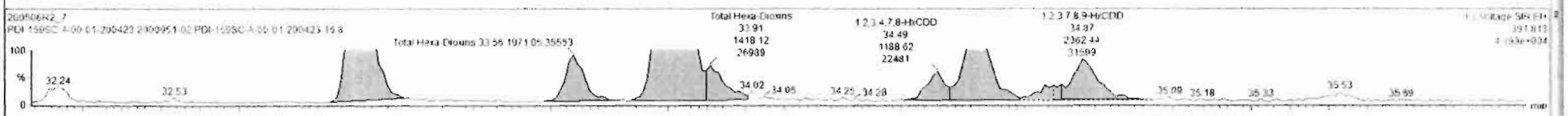
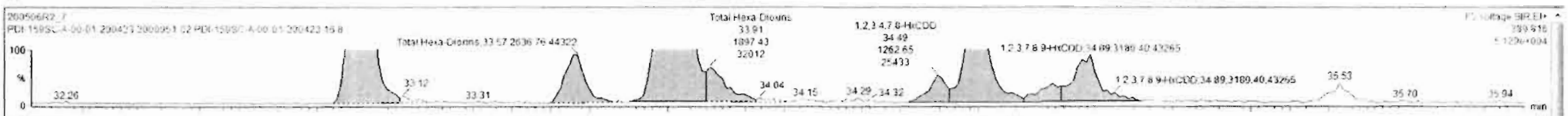


200506R2\_7



Name	Resp	RA	m1	RRF	withal	RT	RRT	Conc.	%Rec.	DL	EMFC
39 Total Tetra-Dioxins				0.9475	10.493			2.07		0.121	2.77
40 Total Penta-Dioxins				0.9425	10.493			5.32		0.182	5.32
41 Total Hexa-Dioxins				0.9145	10.493			31.7		0.208	32.3

Name	RT	m1 Resp	m2 Resp	RA	m1y	EMFC	Conc.
1 Total Hexa-Dioxins	33.00	1.620e4	1.293e4	1.25	NO	9.4727	9.4727
2 Total Hexa-Dioxins	33.57	2.837e3	1.971e3	1.34	NO	1.4982	1.4982
3 Total Hexa-Dioxins	33.61	2.265e4	1.895e4	1.19	NO	11.535	13.535
4 Total Hexa-Dioxins	33.91	1.897e3	1.418e3	1.34	NO	1.0780	1.0780
5 1,2,3,4,7,8-HxCDD	34.49	1.263e2	1.189e3	1.06	NO	0.72750	0.72790
6 1,2,3,6,7,8-HxCDD	34.60	6.025e3	5.219e3	1.31	NO	3.3654	3.3654
7 Total Hexa-Dioxins	34.79	1.034e3	7.034e2	1.35	NO	0.59425	0.08000
8 1,2,3,7,8,9-HxCDD	34.89	3.150e3	2.362e3	1.25	NO	2.0121	2.0121



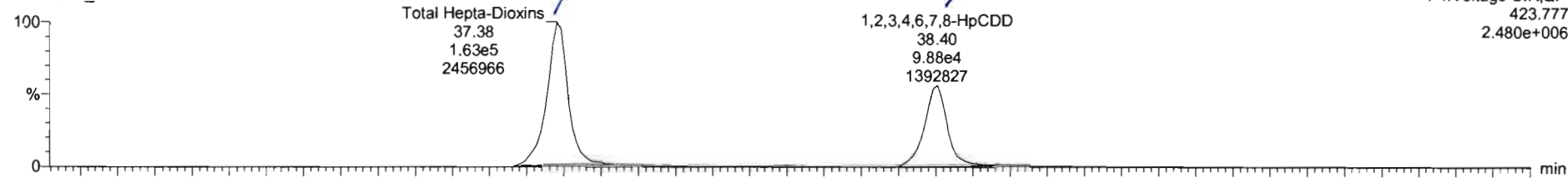
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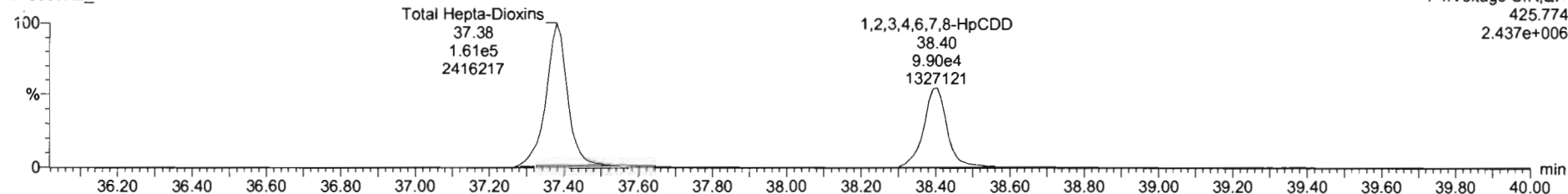
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200506R2\_7



F4:Voltage SIR,EI+  
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2.480e+006

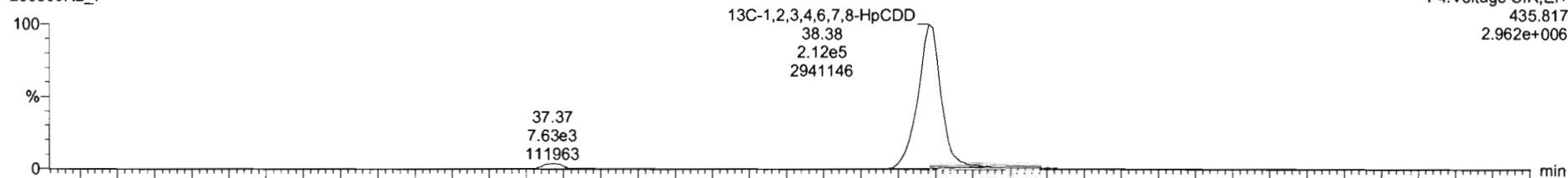
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F4:Voltage SIR,EI+  
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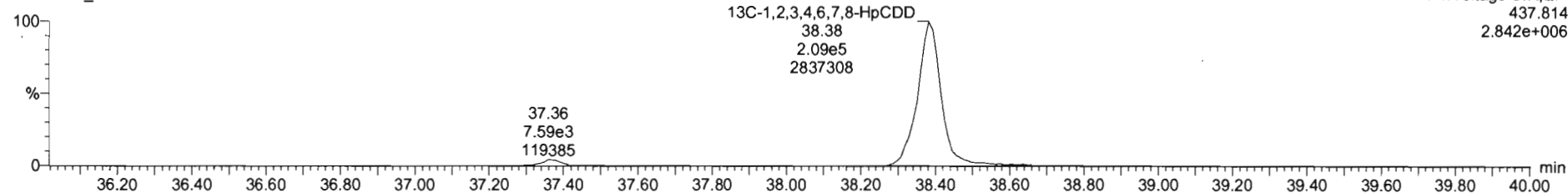
**13C-1,2,3,4,6,7,8-HpCDD**

200506R2\_7



F4:Voltage SIR,EI+  
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2.962e+006

200506R2\_7

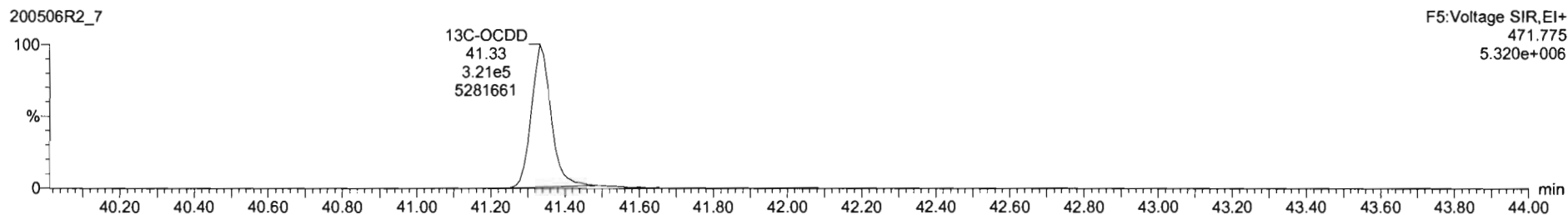
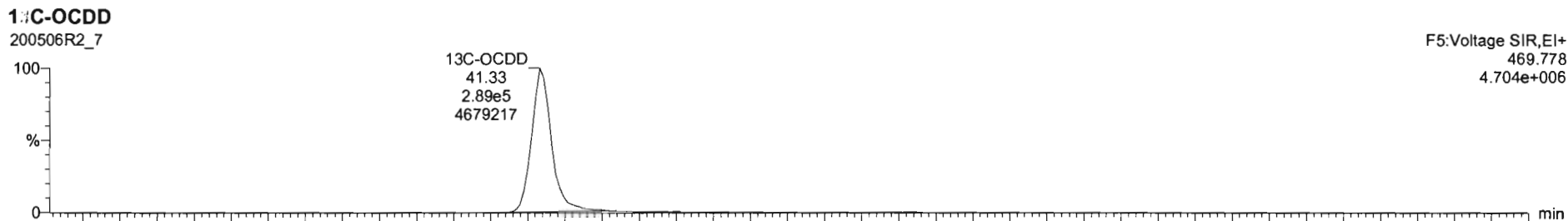
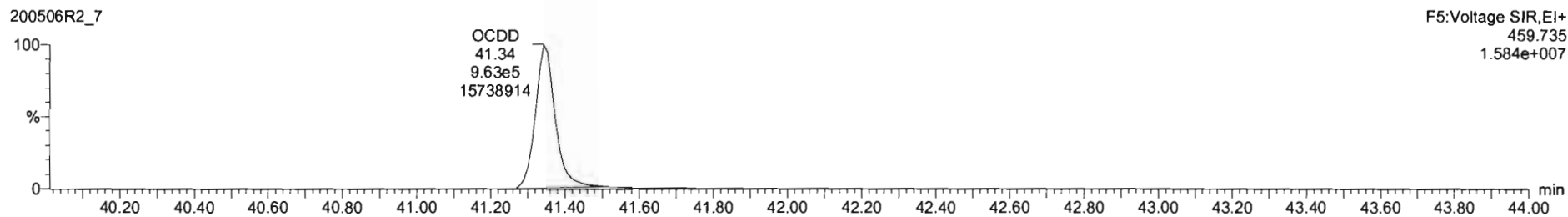
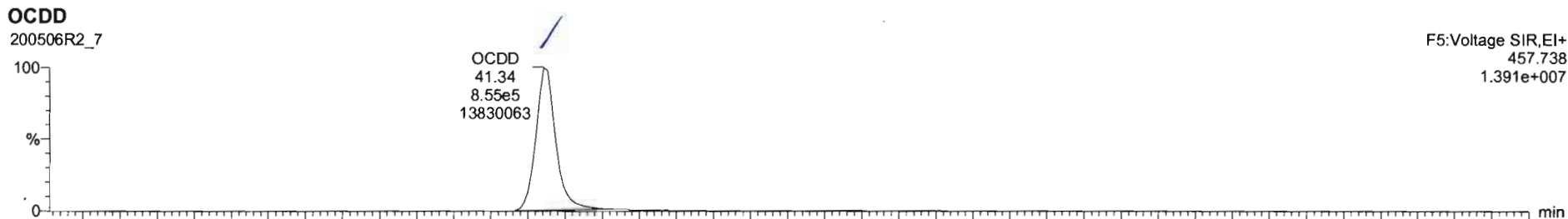


F4:Voltage SIR,EI+  
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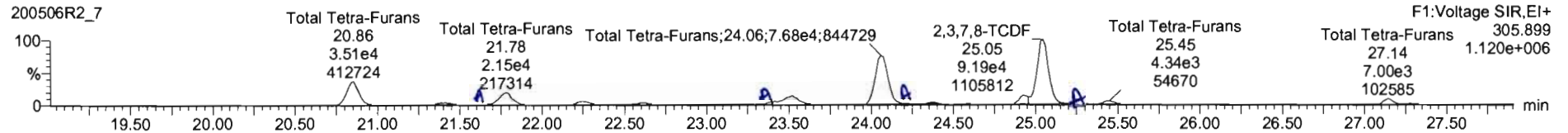
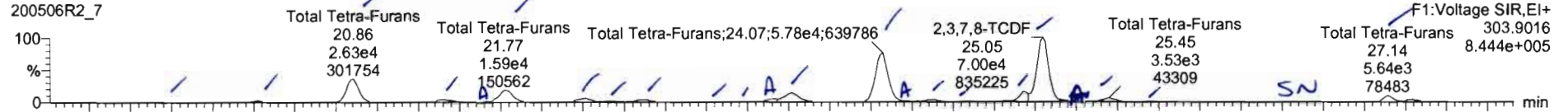


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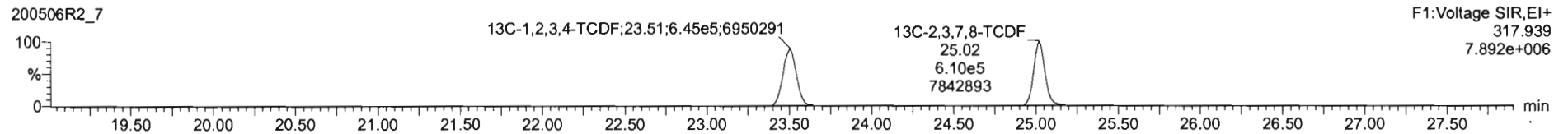
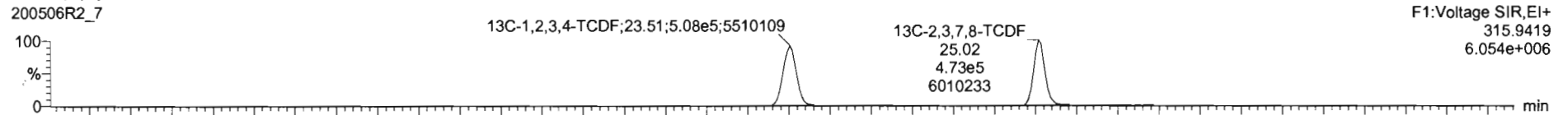
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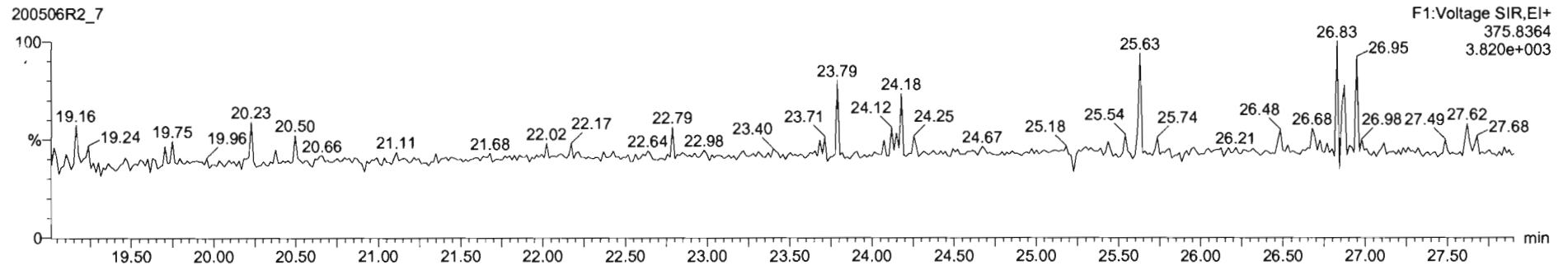
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13C-2,3,7,8-TCDF

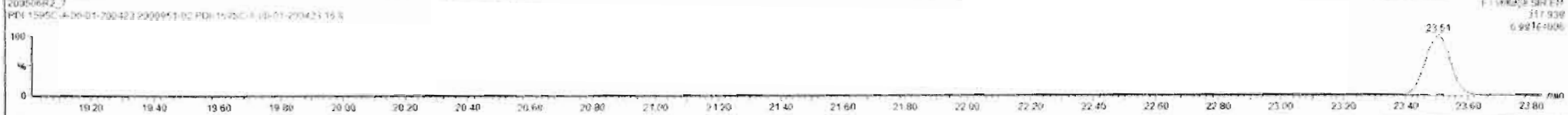
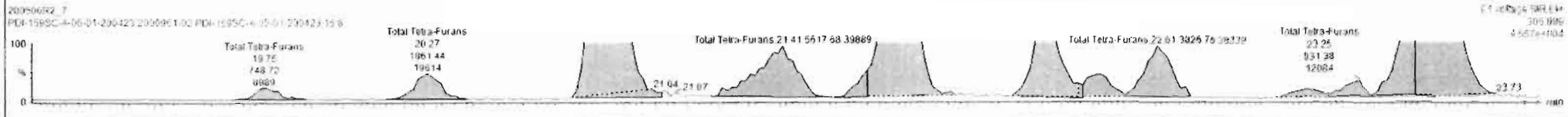
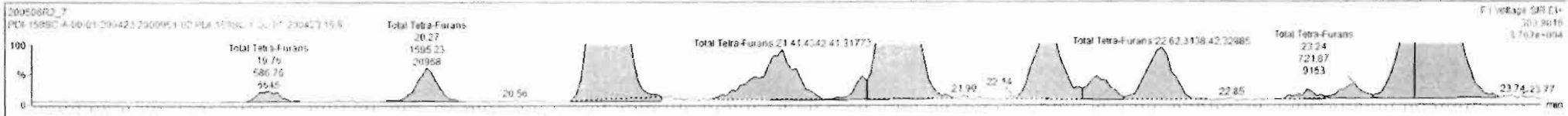


DPE1



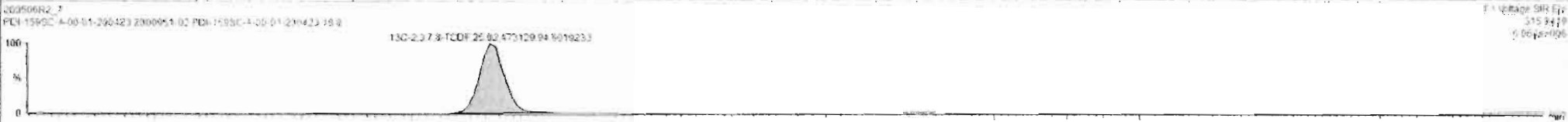
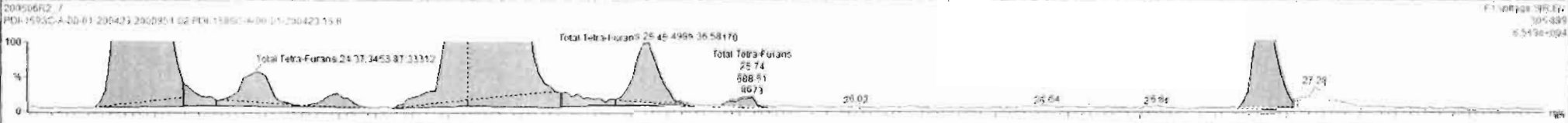
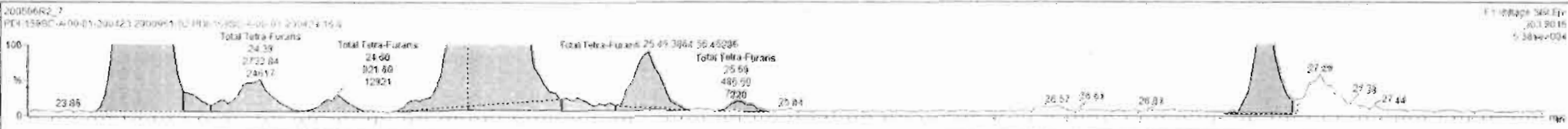
#	Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
43	Total Tetra-Furans				0.7871	10.493			114		0.218	116
44	1st Func. Penta-Furans				0.9102	10.493			8.35		0.0268	8.35
45	Total Penta-Furans				0.9102	10.493			119		0.190	121

#	Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1	Total Tetra-Furans	19.76	5.980e2	7.487e2	0.78	NO	0.29645	0.29945
2	Total Tetra-Furans	20.27	1.595e3	1.961e3	0.86	NO	0.77250	0.77250
3	Total Tetra-Furans	20.66	2.674e4	3.667e4	0.74	NO	14.036	14.036
4	Total Tetra-Furans	21.41	4.342e3	5.619e3	0.77	NO	2.2259	2.2259
5	Total Tetra-Furans	21.66	6.117e2	8.062e2	0.75	NO	0.31668	0.31668
6	Total Tetra-Furans	21.77	1.545e4	2.072e4	0.74	NO	0.0782	8.0782
7	Total Tetra-Furans	22.26	4.681e3	6.257e3	0.75	NO	2.4454	2.4454
8	Total Tetra-Furans	22.41	1.212e3	1.561e3	0.76	NO	0.61989	0.61989
9	Total Tetra-Furans	22.62	3.136e3	3.927e3	0.82	NO	1.5566	1.5566
10	Total Tetra-Furans	23.09	5.900e2	8.880e2	0.85	NO	0.21409	0.21409
11	Total Tetra-Furans	23.24	7.219e2	9.314e2	0.78	NO	0.36847	0.36847
12	Total Tetra-Furans	23.42	2.858e3	3.735e3	0.77	NO	1.4736	1.4736
13	Total Tetra-Furans	23.52	1.230e4	1.548e4	0.75	NO	0.4334	0.4334



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMFC
43 Total Tetra-Furans				0.7871	10.493			110		0.218	110
44 1st Func. Penta-Furans				0.9102	10.493			8.35		5.0283	8.35
45 Total Penta-Furans				0.9102	10.493			119		0.190	123

Name	RT	wt Resp	m2 Resp	RA	n/y	EMFC	Conc.
1 Total Tetra-Furans	19.76	5.866e2	7.427e2	0.78	ND	0.29645	0.29545
2 Total Tetra-Furans	20.27	1.595e1	1.961e1	0.86	ND	0.77250	0.77250
3 Total Tetra-Furans	20.86	2.874e4	3.607e4	0.74	ND	14.036	14.036
4 Total Tetra-Furans	21.41	4.342e3	5.619e3	0.77	ND	2.2259	2.2259
5 Total Tetra-Furans	21.66	6.117e2	8.062e2	0.76	ND	0.31688	0.31688
6 Total Tetra-Furans	21.77	1.543e4	2.072e4	0.74	ND	8.0782	8.0782
7 Total Tetra-Furans	22.26	4.685e3	6.257e3	0.75	ND	2.4454	2.4454
8 Total Tetra-Furans	22.41	1.212e3	1.561e3	0.76	ND	0.61989	0.61989
9 Total Tetra-Furans	22.62	3.138e3	3.927e3	0.82	ND	1.5666	1.5666
10 Total Tetra-Furans	23.99	5.560e2	5.606e2	0.65	ND	0.21495	0.21496



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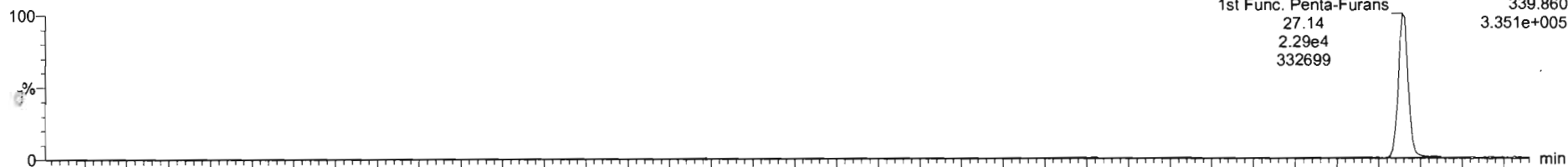
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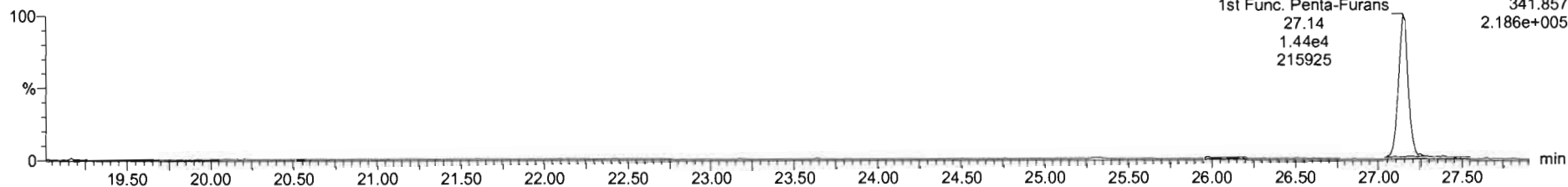
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1st Func. Penta-Furans

200506R2\_7

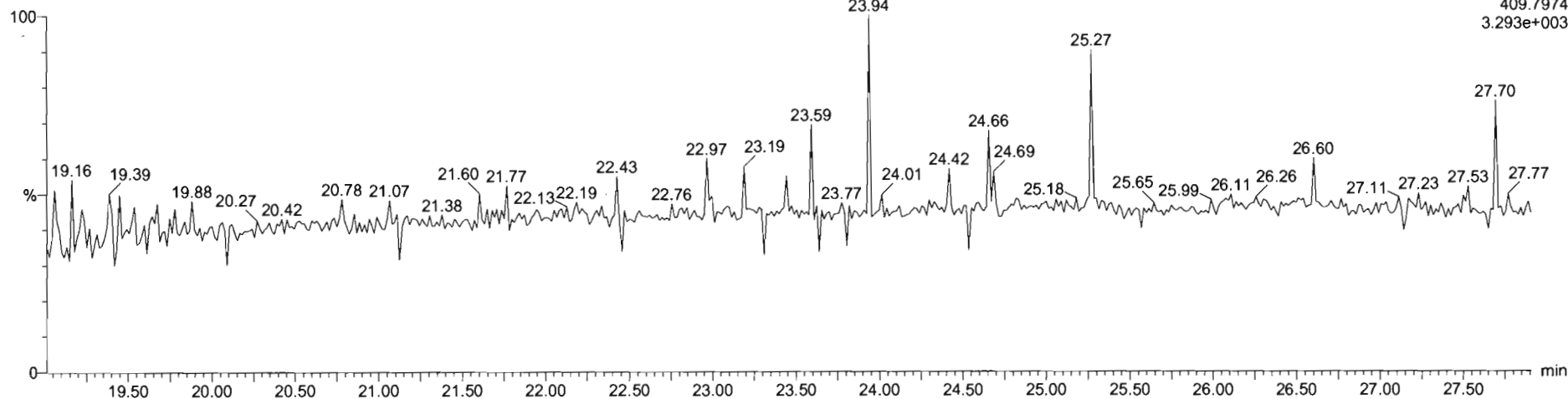


200506R2\_7



DPE6

200506R2\_7

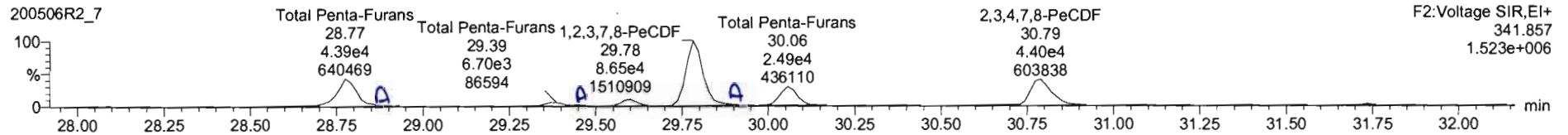
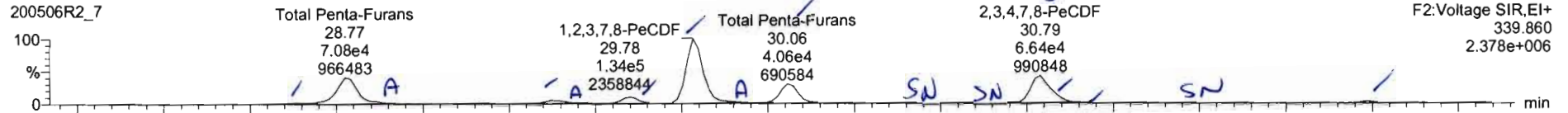


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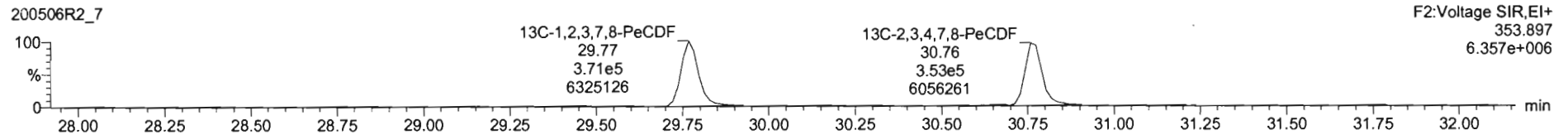
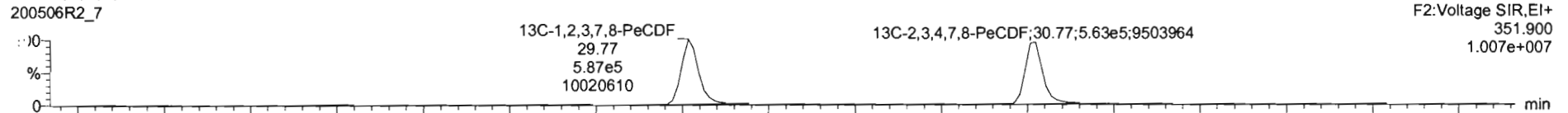
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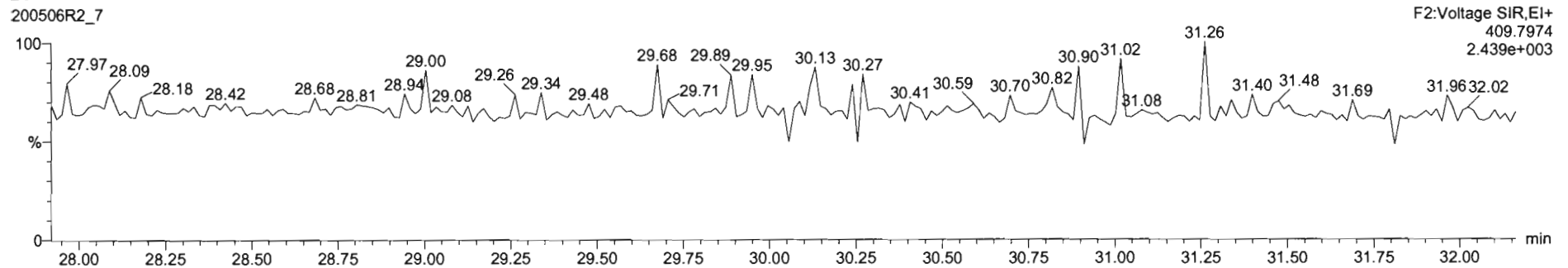
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**13C-1,2,3,7,8-PeCDF**



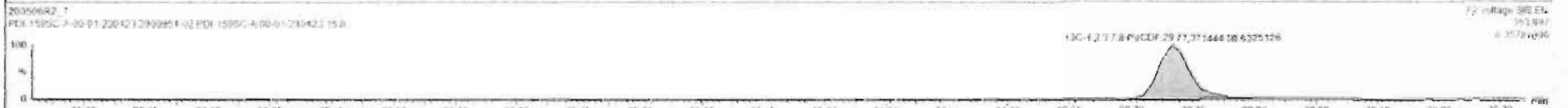
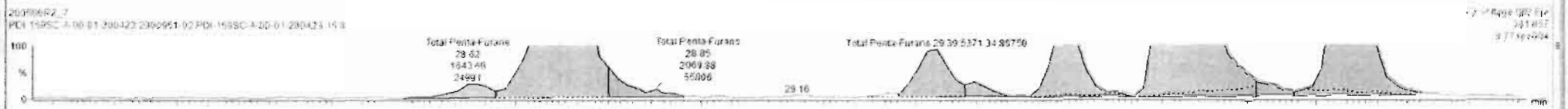
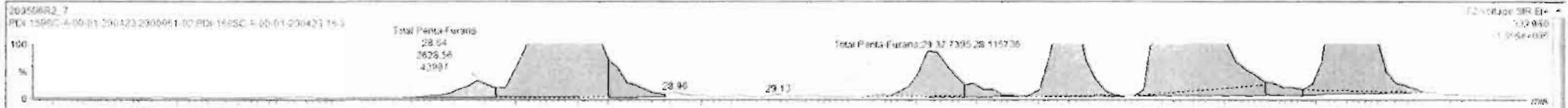
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200506R2\_7 2009051-01 PDI-159SC-A-00-01-200423 16.8 PDI-159SC-A-00-01-200423

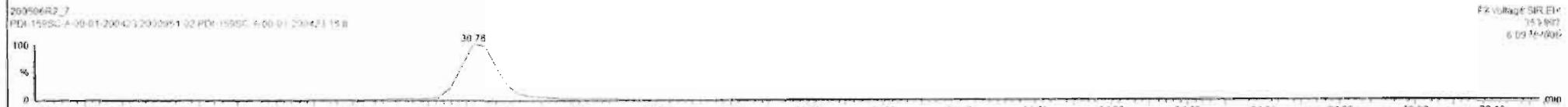
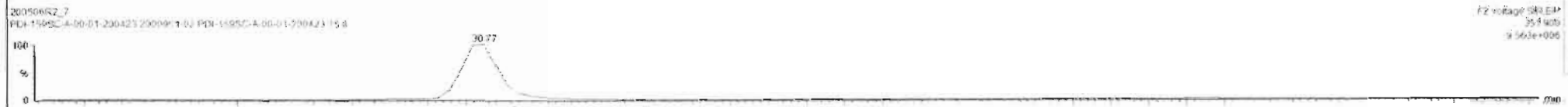
Name	Resp	RA	nly	RRT	whvol	RT	RRT	Conc	%Rec	GL	EMPC
43 Total Tetra-Furans				0.7871	15.497			118		8.218	118
44 1st Func. Penta-Furans				0.8102	15.497			8.35		0.0283	8.35
45 Total Penta-Furans				0.9102	15.497			125		6.190	125

Name	RT	n1 Resp	n2 Resp	RA	nly	EMPC	Conc.
1 Total Penta-Furans	28.64	2.628e3	1.644e3	1.60	NO	0.97462	0.95462
2 Total Penta-Furans	28.77	6.709e4	4.304e4	1.60	NO	24.384	24.384
3 Total Penta-Furans	28.86	1.520e3	2.070e3	1.70	NO	1.2491	1.2491
4 Total Penta-Furans	29.37	7.395e3	5.371e3	1.96	NO	2.8527	2.8527
5 Total Penta-Furans	29.45	1.554e2	1.121e3	1.00	NO	0.55754	0.59754
6 Total Penta-Furans	29.60	1.132e4	8.342e3	1.60	NO	4.8842	4.8842
7 1,2,3,7,8-PeCDF	29.78	1.374e5	8.880e4	1.58	NO	49.264	49.264
8 Total Penta-Furans	29.90	1.411e3	1.026e3	1.92	NO	0.54440	0.54440
9 Total Penta-Furans	30.86	4.210e4	2.627e4	1.60	NO	15.274	15.275
10 Total Penta-Furans	30.52	4.372e2	3.973e2	1.00	YES	0.14873	0.00000
11 1,2,3,4,7,8-PeCDF	30.79	6.636e4	4.403e4	1.51	NO	23.768	23.768
12 Total Penta-Furans	31.08	2.017e2	5.301e2	0.98	YES	0.07246	0.00000
13 Total Penta-Furans	31.74	3.440e3	2.831e3	1.86	NO	1.2224	1.2224
14 Total Penta-Furans	32.04	1.533e3	2.921e2	5.25	YES	0.16843	0.00000



#	Name	Resp	RA	inj	RRF	wfvol	RT	RRT	Conc	%Rec	DL	[R]PC
45	Total Penta-Furans				0.9102	10.493			125		0.158	125
46	Total Hexa-Furans				0.9217	10.493			168		0.273	168
47	Total Hepta-Furans				0.8712	10.493			118		0.334	118

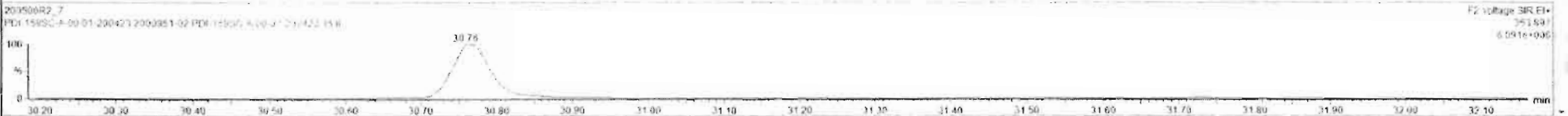
#	Name	RT	m1 Resp	m2 Resp	RA	inj	EMPC	Conc
1	Total Penta-Furans	28.54	2.529e3	1.644e3	1.00	NO	0.95462	0.95462
2	Total Penta-Furans	28.77	6.799e4	4.204e4	1.00	NO	24.364	24.364
3	Total Penta-Furans	28.85	2.520e3	2.070e3	1.70	NO	1.2491	1.2491
4	Total Penta-Furans	28.37	7.395e3	5.371e3	1.38	NO	2.8527	2.8527
5	Total Penta-Furans	29.45	1.554e2	1.121e3	1.29	NO	0.59754	0.59754
6	Total Penta-Furans	29.60	1.352e4	8.342e3	1.60	NO	4.8842	4.8842
7	2,3,4,7,8-PeCDF	29.78	1.374e5	8.800e4	1.58	NO	45.264	45.264
8	Total Penta-Furans	29.92	1.811e3	1.029e3	1.26	NO	0.54440	0.54440
9	Total Penta-Furans	30.06	4.210e4	2.627e4	1.60	NO	15.275	15.275
10	2,3,4,7,8-PeCDF	30.79	5.351e4	3.452e4	1.55	NO	18.952	18.952
11	Total Penta-Furans	30.82	1.341e4	8.902e3	1.51	NO	4.9849	4.9849
12	Total Penta-Furans	31.74	3.174e2	2.112e3	1.60	NO	1.2259	1.2259



Custom Reporting: Select reports to generate

KJ	Name	Resp	RA	nly	RRF	abvol	RT	RRT	Conc	%Rec	DL	EMFC
45	Total Penta-Furans				0.9102	10.493			125		0.198	125
46	Total Hexa-Furans				0.9217	10.493			160		0.273	160
47	Total Hepta-Furans				0.8712	10.493			116		0.334	116

KJ	Name	RT	m1 Resp	m2 Resp	RA	nly	EMFC	Conc
1	Total Penta-Furans	28.64	2.625e3	1.644e3	1.00	NO	0.95482	0.95482
2	Total Penta-Furans	28.77	6.705e4	4.204e4	1.00	NO	24.384	24.384
3	Total Penta-Furans	28.88	3.520e3	2.073e3	1.70	NO	1.2491	1.2491
4	Total Penta-Furans	29.37	7.395e3	1.371e3	1.28	NO	2.8527	2.8527
5	Total Penta-Furans	29.45	1.554e3	1.121e3	1.16	NO	0.59754	0.59754
6	Total Penta-Furans	29.60	1.352e4	8.342e3	1.82	NO	4.8842	4.8842
7	1,2,3,7,8-PeCDF	29.78	1.374e5	8.805e4	1.58	NO	45.284	45.284
8	Total Penta-Furans	29.92	1.411e5	1.025e5	1.36	NO	6.54440	6.54440
9	Total Penta-Furans	30.06	4.210e4	2.421e4	1.60	NO	15.275	15.275
10	2,3,4,7,8-PeCDF	30.79	5.381e4	3.452e4	1.55	NO	18.952	18.952
11	Total Penta-Furans	30.82	1.341e4	8.962e3	1.71	NO	4.9648	4.9648
12	Total Penta-Furans	31.74	2.374e3	2.117e3	1.60	NO	1.2259	1.2259



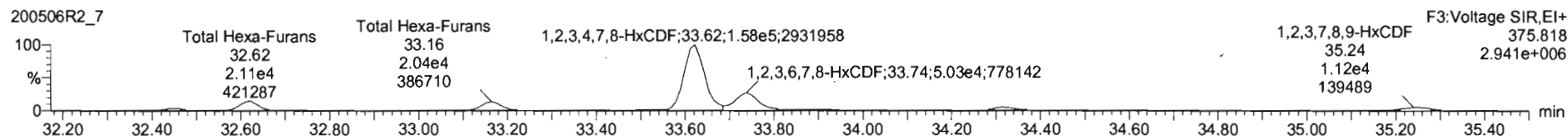
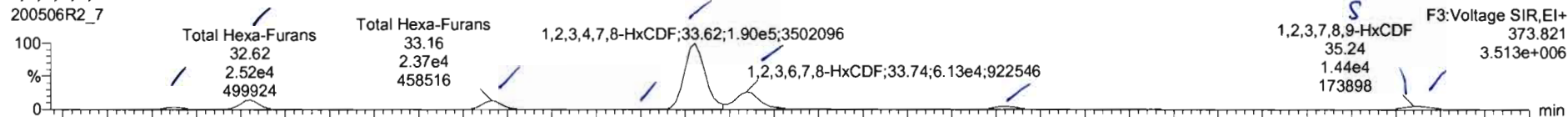


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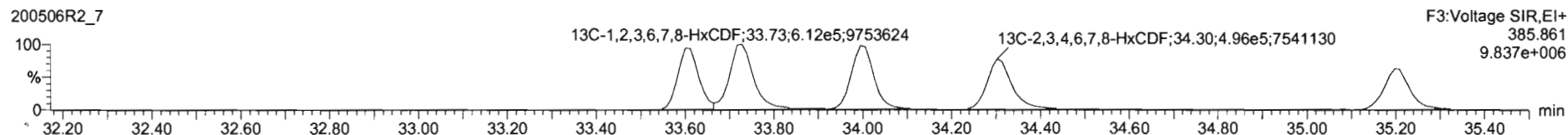
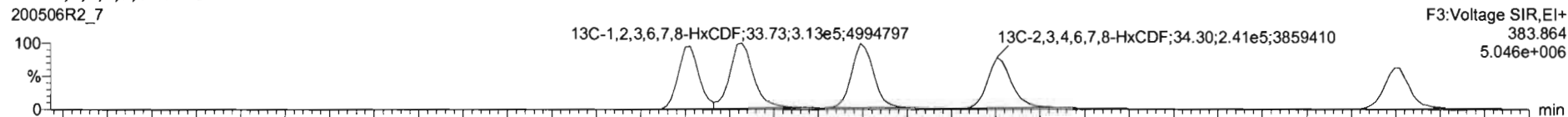
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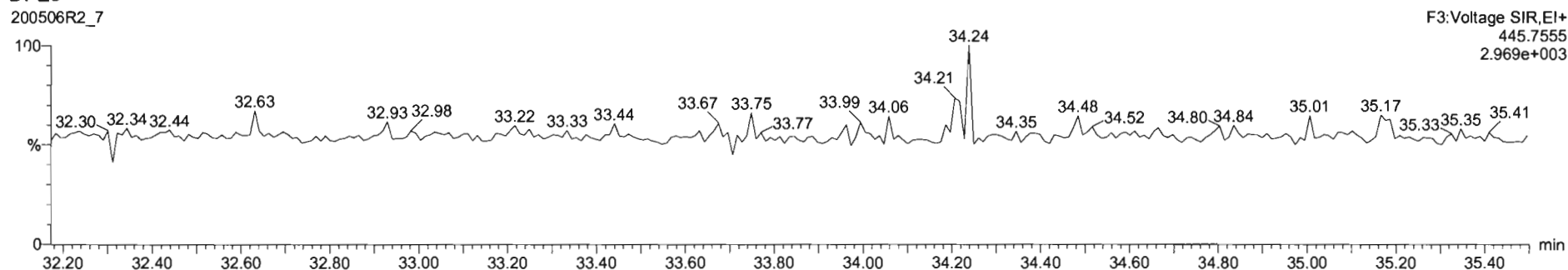
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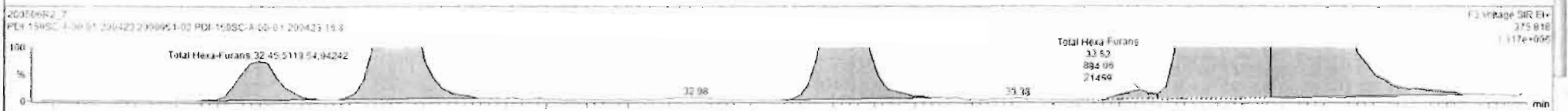
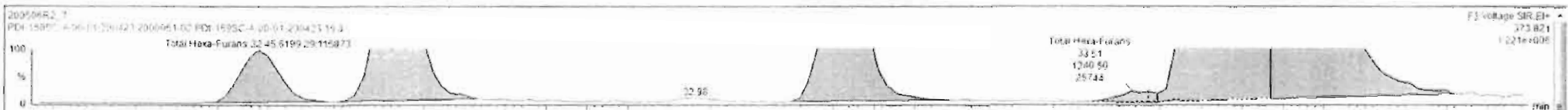


DPE3



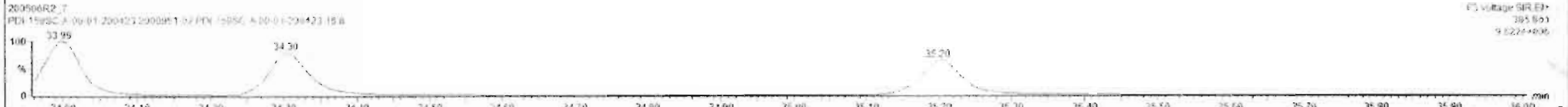
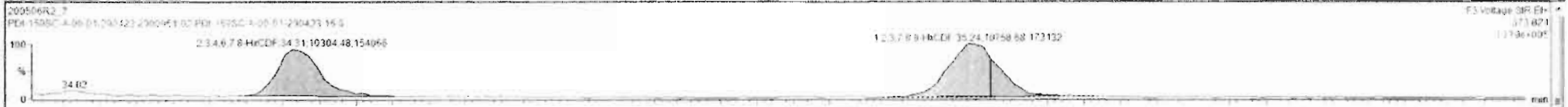
Name	Resp	RA	ny	RRF	w/W	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Hexa-Furans				0.916	12.493			125		0.196	125
46 Total Hexa-Furans				0.9217	10.493			165		0.273	165
47 Total Hexa-Furans				0.8712	10.493			110		0.334	110

Name	RT	m1 Resp	m2 Resp	RA	ny	EMPC	Conc.
1 Total Hexa-Furans	32.45	6.199e3	5.120e3	1.21	NO	3.0613	3.0613
2 Total Hexa-Furans	32.82	2.520e4	2.106e4	1.20	NO	12.602	12.602
3 Total Hexa-Furans	33.16	2.372e4	2.040e4	1.16	NO	12.010	12.010
4 Total Hexa-Furans	33.51	1.241e3	8.041e2	1.46	NO	0.5763	0.57335
5 1,2,3,4,7,8-HxCDF	33.62	1.896e4	1.875e4	1.20	NO	99.116	99.116
6 1,2,3,4,7,8-HxCDF	33.74	6.130e4	5.026e4	1.20	NO	26.324	26.324
7 2,3,4,7,8-HxCDF	34.31	1.030e4	8.549e3	1.21	NO	5.2911	5.2911
8 1,2,3,7,8-HxCDF	35.24	1.440e4	1.119e4	1.29	NO	9.1500	9.1500



#	Name	Resp	RA	n/y	RRF	Wt/pt	RT	RRT	Conc	%Rec	DL	EMPC
45	Total Hexa-Furans				0.9182	10.493			125		0.156	125
46	Total Hexa-Furans				0.6217	10.493			165		0.273	165
47	Total Hepta-Furans				0.8712	10.493			116		0.334	116

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc:
1	Total Hexa-Furans	32.45	6.19e3	6.12e3	1.21	NO	3.0613	3.3613
2	Total Hexa-Furans	32.62	2.52e4	2.10e4	1.20	NO	12.602	12.692
3	Total Hexa-Furans	32.98	2.37e4	2.04e4	1.18	NO	12.010	12.010
4	Total Hexa-Furans	33.54	1.241e3	6.641e2	1.40	NO	0.47839	0.57839
5	1,2,3,4,7,8-HxCDF	33.62	1.89e4	1.57e4	1.20	NO	99.116	99.116
6	1,2,3,6,7,8-HxCDF	33.74	6.13e4	1.02e4	1.22	NO	26.324	26.324
7	2,3,4,6,7,8-HxCDF	34.31	1.93e4	8.54e3	1.21	NO	5.2931	5.2931
8	1,2,3,7,8,9-HxCDF	35.24	1.07e4	6.67e3	1.24	NO	6.9483	6.9483
9	Total Hexa-Furans	35.27	3.24e3	2.47e3	1.21	NO	1.0523	1.0523

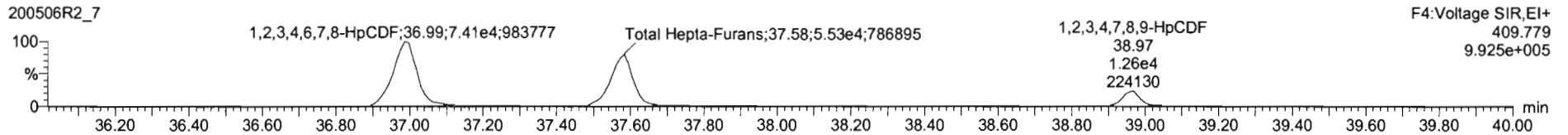
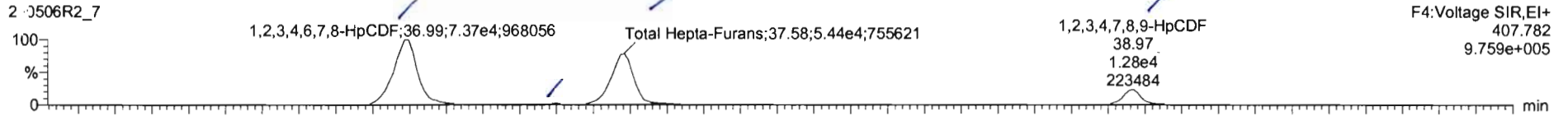


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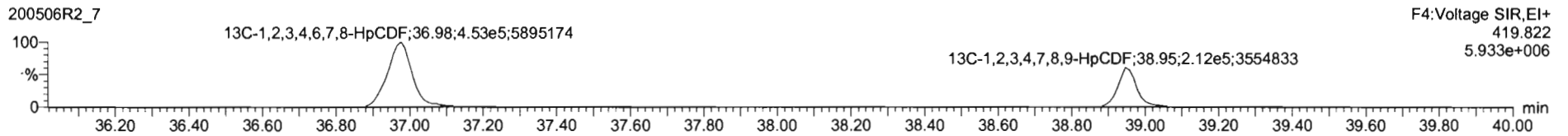
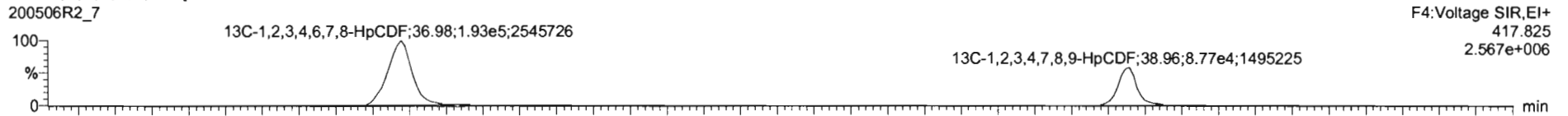
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Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

Name: 200506R2\_7, Date: 06-May-2020, Time: 18:15:01, ID: 2000951-02 PDI-159SC-A-00-01-200423 16.8, Description: PDI-159SC-A-00-01-200423

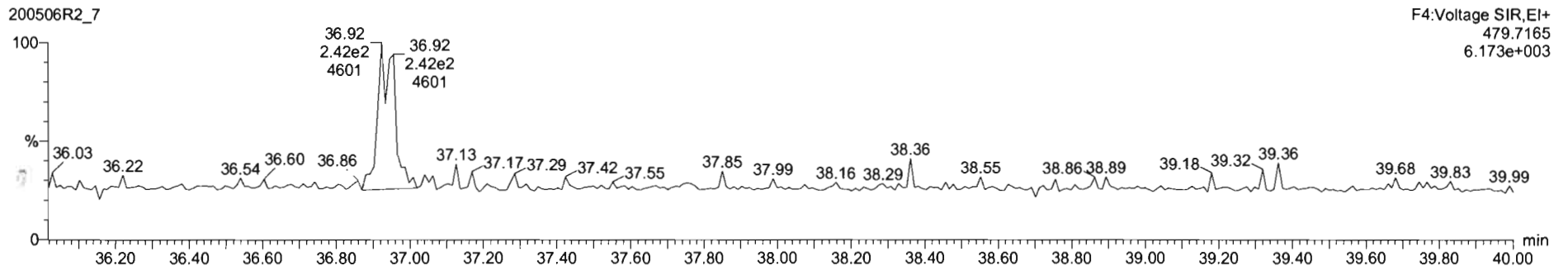
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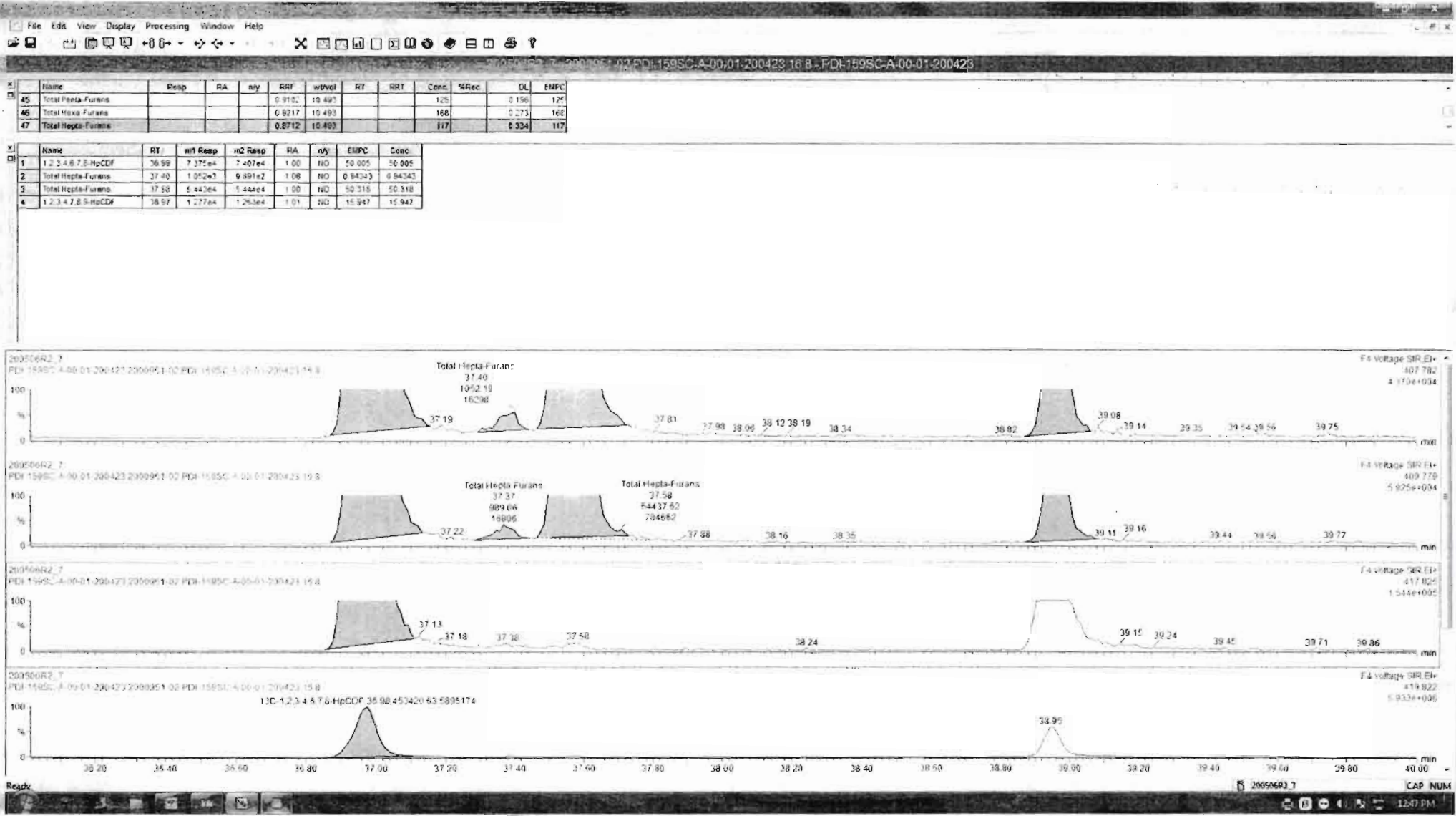


13C-1,2,3,4,6,7,8-HpCDF



DPE4

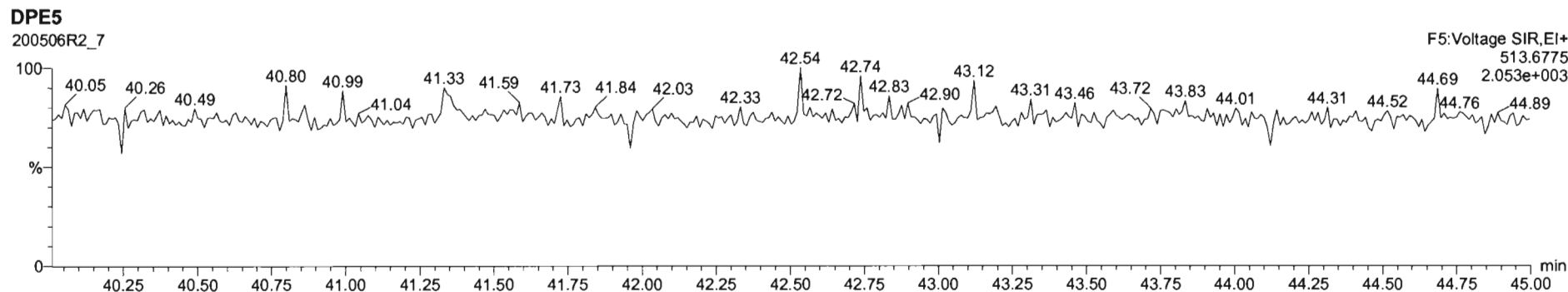
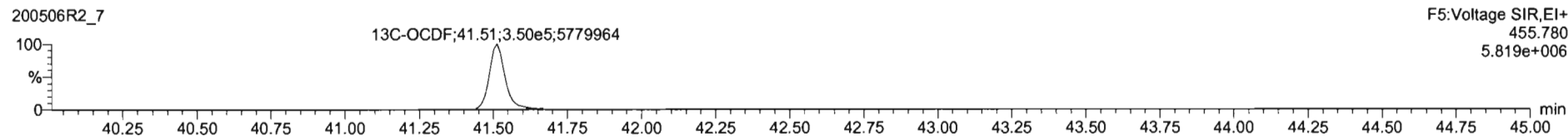
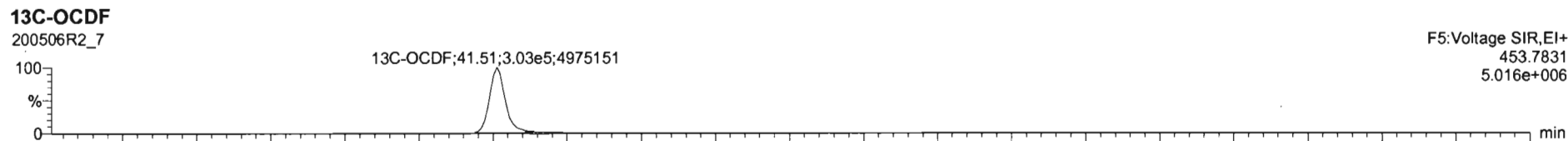
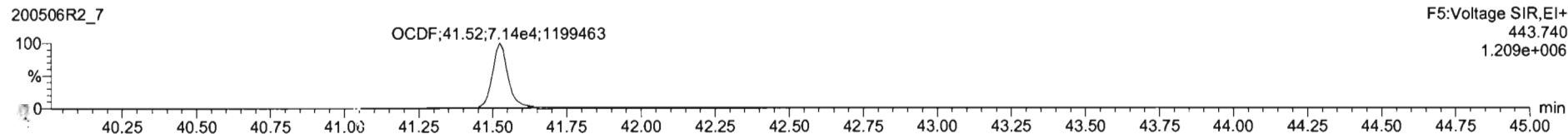
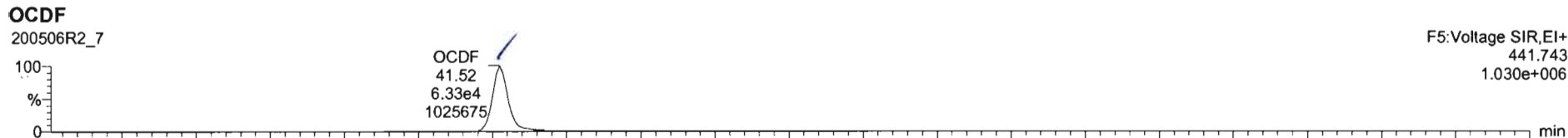




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Name: 200506R2\_7, Date: 06-May-2020, Time: 18:15:01, ID: 2000951-02 PDI-159SC-A-00-01-200423 16.8, Description: PDI-159SC-A-00-01-200423



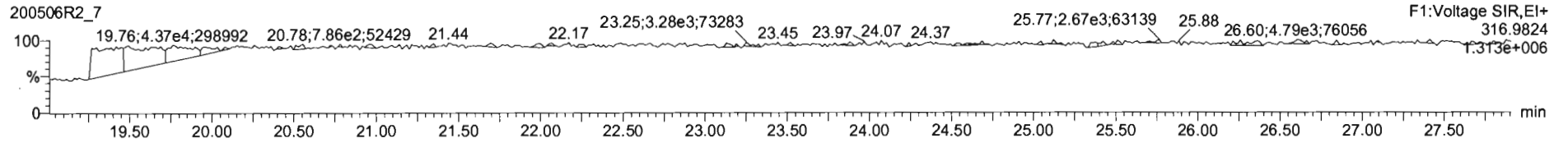
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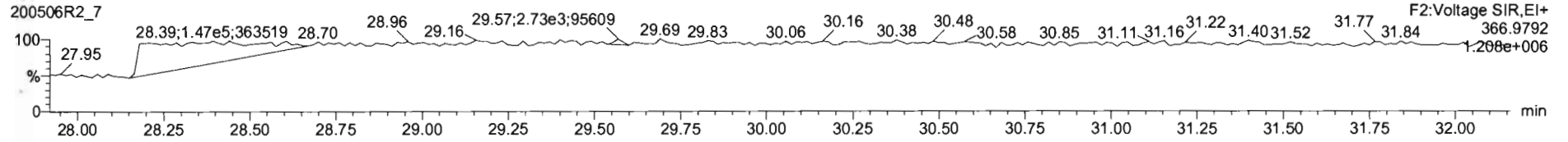
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Name: 200506R2\_7, Date: 06-May-2020, Time: 18:15:01, ID: 2000951-02 PDI-159SC-A-00-01-200423 16.8, Description: PDI-159SC-A-00-01-200423

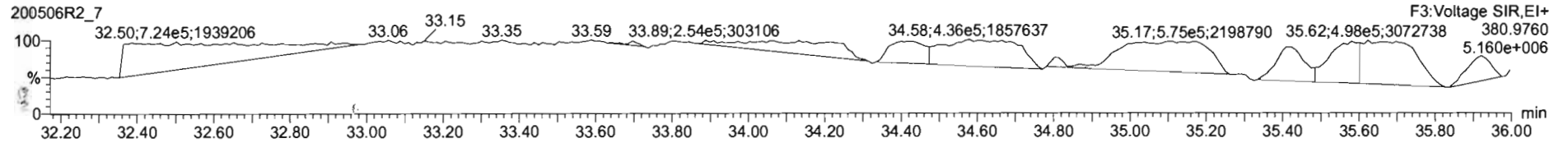
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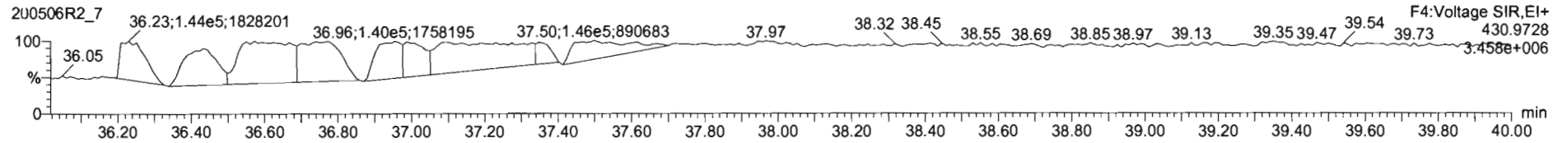
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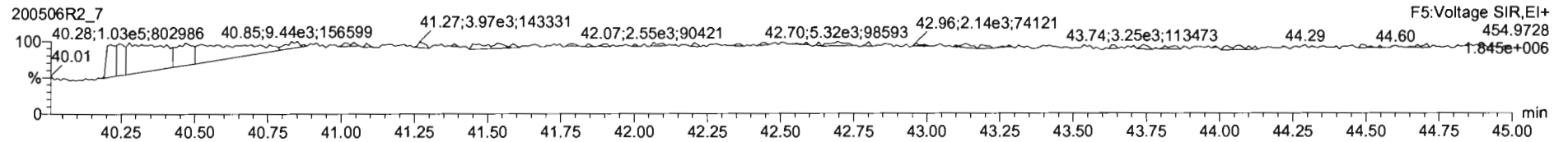
**PFK3**



**PFK4**



**PFK5**



Dataset: U:\VG12.PRO\Results\200518R2\200518R2-16.qld

Last Altered: Tuesday, May 19, 2020 14:59:37 Pacific Daylight Time

Printed: Tuesday, May 19, 2020 15:00:05 Pacific Daylight Time

GPB 05/19/2020

CT 05/21/2020

Method: Untitled 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200518R2\_16, Date: 19-May-2020, Time: 01:35:46, ID: 2000951-03RE1 PDI-159SC-A-01-02-200423 12.5, Description: PDI-159SC-A-01-02-200423

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	4.67e3	0.61	YES	0.947	10.022	26.081	26.08	1.001	1.001	0.52877		0.0453	0.459
2	2 1,2,3,7,8-PeCDD	4.01e3	0.65	NO	0.942	10.022	31.162	31.16	1.001	1.000	0.56597		0.0437	0.566
3	3 1,2,3,4,7,8-HxCDD	2.19e3	1.27	NO	1.06	10.022	34.526	34.54	1.000	1.001	0.39478		0.0602	0.395
4	4 1,2,3,6,7,8-HxCDD	9.16e3	1.26	NO	0.915	10.022	34.623	34.63	1.000	1.000	1.5624		0.0613	1.56
5	5 1,2,3,7,8,9-HxCDD	4.59e3	1.37	NO	0.915	10.022	34.910	34.91	1.000	1.000	0.83686		0.0703	0.837
6	6 1,2,3,4,6,7,8-HpCDD	2.45e5	1.04	NO	0.898	10.022	38.416	38.41	1.000	1.000	63.206		0.292	63.2
7	7 OCDD	2.83e6	0.83	NO	0.933	10.022	41.386	41.40	1.000	1.000	814.70		0.383	815
8	8 2,3,7,8-TCDF	1.40e5	0.75	NO	0.787	10.022	25.147	25.14	1.001	1.001	15.579 (15.5)		0.0684	15.6
9	9 1,2,3,7,8-PeCDF	1.90e5	1.54	NO	0.910	10.022	29.849	29.84	1.001	1.001	19.758		0.0853	19.8
10	10 2,3,4,7,8-PeCDF	1.42e4	1.47	NO	0.966	10.022	30.866	30.88	1.001	1.001	1.4486		0.0821	1.45
11	11 1,2,3,4,7,8-HxCDF	2.58e5	1.20	NO	0.878	10.022	33.653	33.66	1.000	1.000	42.314		0.0824	42.3
12	12 1,2,3,6,7,8-HxCDF	7.58e4	1.21	NO	0.874	10.022	33.781	33.79	1.000	1.001	11.307		0.0821	11.3
13	13 2,3,4,6,7,8-HxCDF	1.51e4	1.25	NO	0.922	10.022	34.390	34.37	1.001	1.000	2.4173		0.0870	2.42
14	14 1,2,3,7,8,9-HxCDF	1.82e4	1.28	NO	0.864	10.022	35.300	35.30	1.002	1.002	3.4888		0.120	3.49
15	15 1,2,3,4,6,7,8-HpCDF	1.13e5	1.02	NO	0.871	10.022	37.014	37.00	1.001	1.001	26.246		0.128	26.2
16	16 1,2,3,4,7,8,9-HpCDF	2.51e4	1.03	NO	1.01	10.022	38.979	39.00	1.000	1.001	7.2576		0.140	7.26
17	17 OCDF	1.75e5	0.88	NO	0.802	10.022	41.567	41.59	1.000	1.001	53.163		0.101	53.2
18	18 13C-2,3,7,8-TCDD	1.87e6	0.81	NO	1.16	10.022	26.031	26.05	1.026	1.027	186.45	93.4	0.147	
19	19 13C-1,2,3,7,8-PeCDD	1.50e6	0.62	NO	0.847	10.022	31.123	31.14	1.227	1.228	204.96	103	0.215	
20	20 13C-1,2,3,4,7,8-HxCDD	1.04e6	1.27	NO	0.750	10.022	34.528	34.52	1.014	1.014	178.34	89.4	0.241	
21	21 13C-1,2,3,6,7,8-HxCDD	1.28e6	1.27	NO	0.963	10.022	34.640	34.62	1.017	1.017	170.49	85.4	0.188	
22	22 13C-1,2,3,7,8,9-HxCDD	1.20e6	1.26	NO	0.838	10.022	34.909	34.90	1.025	1.025	183.30	91.8	0.216	
23	23 13C-1,2,3,4,6,7,8-HpCDD	8.62e5	1.06	NO	0.641	10.022	38.403	38.40	1.128	1.128	172.39	86.4	0.261	
24	24 13C-OCDD	1.49e6	0.90	NO	0.586	10.022	41.399	41.39	1.216	1.216	325.16	81.5	0.266	
25	25 13C-2,3,7,8-TCDF	2.28e6	0.77	NO	1.03	10.022	25.090	25.12	0.989	0.991	181.93	91.2	0.218	
26	26 13C-1,2,3,7,8-PeCDF	2.11e6	1.58	NO	0.845	10.022	29.812	29.83	1.176	1.176	205.66	103	0.364	
27	27 13C-2,3,4,7,8-PeCDF	2.03e6	1.58	NO	0.814	10.022	30.803	30.83	1.215	1.216	205.39	103	0.378	
28	28 13C-1,2,3,4,7,8-HxCDF	1.39e6	0.51	NO	1.00	10.022	33.667	33.65	0.989	0.988	176.88	88.6	0.332	
29	29 13C-1,2,3,6,7,8-HxCDF	1.53e6	0.51	NO	1.14	10.022	33.789	33.77	0.992	0.992	172.66	86.5	0.294	
30	30 13C-2,3,4,6,7,8-HxCDF	1.36e6	0.51	NO	1.02	10.022	34.358	34.36	1.009	1.009	170.17	85.3	0.327	
31	31 13C-1,2,3,7,8,9-HxCDF	1.21e6	0.49	NO	0.845	10.022	35.250	35.24	1.035	1.035	183.27	91.8	0.395	



Dataset: U:\VG12.PRO\Results\200518R2\200518R2-16.qld

Last Altered: Tuesday, May 19, 2020 14:59:37 Pacific Daylight Time

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Name: 200518R2\_16, Date: 19-May-2020, Time: 01:35:46, ID: 2000951-03RE1 PDI-159SC-A-01-02-200423 12.5, Description: PDI-159SC-A-01-02-200423

#	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	9.89e5	0.44	NO	0.771	10.022	36.983	36.98	1.086	1.086	164.50	82.4	0.286	
33	33 13C-1,2,3,4,7,8,9-HpCDF	6.83e5	0.43	NO	0.482	10.022	38.995	38.98	1.145	1.145	181.74	91.1	0.457	
34	34 13C-OCDF	1.64e6	0.88	NO	0.669	10.022	41.569	41.57	1.221	1.221	314.61	78.8	0.277	
35	35 37Cl-2,3,7,8-TCDD	7.00e5			1.10	10.022	26.061	26.07	1.028	1.028	73.871	92.5	0.0297	
36	36 13C-1,2,3,4-TCDD	1.72e6	0.79	NO	1.00	10.022	25.350	25.36	1.000	1.000	199.57	100	0.170	
37	37 13C-1,2,3,4-TCDF	2.42e6	0.79	NO	1.00	10.022	23.560	23.59	1.000	1.000	199.57	100	0.226	
38	38 13C-1,2,3,4,6,9-HxCDF	1.56e6	0.51	NO	1.00	10.022	34.000	34.05	1.000	1.000	199.57	100	0.334	
39	39 Total Tetra-Dioxins				0.947	10.022	24.620		0.000		1.6888		0.0453	2.15
40	40 Total Penta-Dioxins				0.942	10.022	29.960		0.000		2.2605		0.0437	3.20
41	41 Total Hexa-Dioxins				0.915	10.022	33.635		0.000		17.714		0.0670	17.7
42	42 Total Hepta-Dioxins				0.898	10.022	37.640		0.000		154.94		0.292	155
43	43 Total Tetra-Furans				0.787	10.022	23.610		0.000		54.415		0.0684	54.4
44	44 1st Func. Penta-Furans				0.910	10.022	27.090		0.000		4.0237		0.0132	4.02
45	45 Total Penta-Furans				0.910	10.022	29.275		0.000		55.275		0.0863	55.3
46	46 Total Hexa-Furans				0.922	10.022	33.555		0.000		74.949		0.0878	75.3
47	47 Total Hepta-Furans				0.871	10.022	37.835		0.000		64.393		0.142	64.4

Dataset: U:\VG12.PRO\Results\200518R2\200518R2-16.qld

Last Altered: Tuesday, May 19, 2020 14:59:37 Pacific Daylight Time  
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Method: Untitled 29 Apr 2020 14:28:02

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Name: 200518R2\_16, Date: 19-May-2020, Time: 01:35:46, ID: 2000951-03RE1 PDI-159SC-A-01-02-200423 12.5, Description: PDI-159SC-A-01-02-200423

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	21.90	2.985e4	3.647e4	2.463e3	3.247e3	0.76	NO	5.710e3	0.64470	0.64470	0.0453
2	Total Tetra-Dioxins	22.31	8.681e3	9.338e3	8.269e2	9.364e2	0.88	NO	1.763e3	0.19909	0.19909	0.0453
3	Total Tetra-Dioxins	23.77	5.310e3	1.003e4	5.209e2	7.746e2	0.67	NO	1.295e3	0.14627	0.14627	0.0453
4	Total Tetra-Dioxins	24.03	7.565e3	7.473e3	6.276e2	7.129e2	0.88	NO	1.340e3	0.15135	0.15135	0.0453
5	Total Tetra-Dioxins	24.27	1.004e4	1.198e4	8.546e2	9.782e2	0.87	NO	1.833e3	0.20694	0.20694	0.0453
6	Total Tetra-Dioxins	25.81	1.320e4	1.706e4	1.058e3	1.229e3	0.86	NO	2.288e3	0.25831	0.25831	0.0453
7	2,3,7,8-TCDD	26.08	2.187e4	3.688e4	1.770e3	2.895e3	0.61	YES	4.666e3	0.00000	0.45942	0.0453
8	Total Tetra-Dioxins	26.41	6.250e3	5.938e3	3.272e2	3.998e2	0.82	NO	7.270e2	0.082084	0.082084	0.0453

**Penta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.88	3.007e4	5.169e4	2.206e3	3.837e3	0.57	NO	6.042e3	0.85385	0.85385	0.0437
2	Total Penta-Dioxins	29.39	1.268e4	1.390e4	5.428e2	9.364e2	0.58	NO	1.479e3	0.20903	0.20903	0.0437
3	Total Penta-Dioxins	29.87	2.459e4	3.376e4	1.432e3	2.012e3	0.71	NO	0.000e0	0.00000	0.48673	0.0437
4	Total Penta-Dioxins	30.04	1.405e4	2.513e4	8.177e2	1.147e3	0.71	NO	0.000e0	0.00000	0.27765	0.0437
5	Total Penta-Dioxins	30.15	7.891e3	1.747e4	4.971e2	7.429e2	0.67	NO	0.000e0	0.00000	0.17521	0.0437
6	Total Penta-Dioxins	30.42	1.056e4	1.872e4	9.355e2	1.463e3	0.64	NO	2.399e3	0.33896	0.33896	0.0437
7	Total Penta-Dioxins	30.71	3.966e3	8.328e3	2.164e2	3.783e2	0.57	NO	5.948e2	0.084048	0.084048	0.0437
8	1,2,3,7,8-PeCDD	31.16	3.202e4	4.315e4	1.583e3	2.422e3	0.65	NO	4.005e3	0.56597	0.56597	0.0437
9	Total Penta-Dioxins	31.23	6.727e3	7.703e3	3.534e2	5.020e2	0.70	NO	8.554e2	0.12088	0.12088	0.0437
10	Total Penta-Dioxins	31.55	4.295e3	8.508e3	2.301e2	3.910e2	0.59	NO	6.211e2	0.087773	0.087773	0.0437

Dataset: U:\VG12.PRO\Results\200518R2\200518R2-16.qld

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18, ID: 29 Name: 200518R2\_16, Date: 19-May-2020, Time: 01:35:46, ID: 2000951-03RE1 PDI-159SC-A-01-02-200423 12.5, Description: PDI-159SC-A-01-02-200423

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.05	4.297e5	3.644e5	2.121e4	1.746e4	1.21	NO	3.867e4	7.1936	7.1936	0.0670
2	Total Hexa-Dioxins	33.60	5.944e4	4.140e4	2.879e3	2.212e3	1.30	NO	5.091e3	0.94701	0.94701	0.0670
3	Total Hexa-Dioxins	33.87	2.757e5	2.264e5	1.827e4	1.434e4	1.27	NO	3.260e4	6.0646	6.0646	0.0670
4	Total Hexa-Dioxins	33.96	2.628e4	2.258e4	1.527e3	1.149e3	1.33	NO	2.676e3	0.49781	0.49781	0.0670
5	1,2,3,4,7,8-HxCDD	34.54	2.328e4	1.932e4	1.228e3	9.668e2	1.27	NO	2.195e3	0.39478	0.39478	0.0602
6	1,2,3,6,7,8-HxCDD	34.63	1.002e5	7.549e4	5.103e3	4.061e3	1.26	NO	9.164e3	1.5624	1.5624	0.0613
7	Total Hexa-Dioxins	34.81	1.254e4	9.351e3	6.837e2	4.801e2	1.42	NO	1.164e3	0.21650	0.21650	0.0670
8	1,2,3,7,8,9-HxCDD	34.91	4.305e4	3.262e4	2.654e3	1.937e3	1.37	NO	4.592e3	0.83686	0.83686	0.0703

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.38	2.609e6	2.573e6	1.761e5	1.798e5	0.98	NO	3.558e5	91.733	91.733	0.292
2	1,2,3,4,6,7,8-HpCDD	38.41	1.924e6	1.906e6	1.251e5	1.201e5	1.04	NO	2.452e5	63.206	63.206	0.292

Dataset: U:\VG12.PRO\Results\200518R2\200518R2-16.qld

Last Altered: Tuesday, May 19, 2020 14:59:37 Pacific Daylight Time  
 Printed: Tuesday, May 19, 2020 15:00:05 Pacific Daylight Time

Sample ID: 200518R2\_16, Date: 19-May-2020, Time: 01:35:46, ID: 2000951-03RE1 PDI-159SC-A-01-02-200423 12.5, Description: PDI-159SC-A-01-02-200423

**Tetra-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	19.82	9.750e3	1.264e4	8.641e2	1.052e3	0.82	NO	1.916e3	0.21285	0.21285	0.0684
2	Total Tetra-Furans	20.33	1.328e4	1.703e4	1.253e3	1.654e3	0.76	NO	2.907e3	0.32297	0.32297	0.0684
3	Total Tetra-Furans	20.93	1.145e5	1.518e5	9.687e3	1.298e4	0.75	NO	2.267e4	2.5182	2.5182	0.0684
4	Total Tetra-Furans	21.41	1.277e4	1.456e4	8.915e2	1.150e3	0.77	NO	2.042e3	0.22683	0.22683	0.0684
5	Total Tetra-Furans	21.50	1.771e4	2.670e4	1.928e3	2.850e3	0.68	NO	4.777e3	0.53073	0.53073	0.0684
6	Total Tetra-Furans	21.86	1.709e5	2.299e5	1.599e4	2.123e4	0.75	NO	3.722e4	4.1354	4.1354	0.0684
7	Total Tetra-Furans	22.34	4.669e4	6.830e4	4.351e3	5.949e3	0.73	NO	1.030e4	1.1443	1.1443	0.0684
8	Total Tetra-Furans	22.50	7.028e3	8.563e3	6.765e2	8.028e2	0.84	NO	1.479e3	0.16434	0.16434	0.0684
9	Total Tetra-Furans	22.71	2.765e4	3.678e4	2.545e3	3.342e3	0.76	NO	5.887e3	0.65405	0.65405	0.0684
10	Total Tetra-Furans	23.16	5.653e3	6.499e3	4.441e2	5.398e2	0.82	NO	9.839e2	0.10930	0.10930	0.0684
11	Total Tetra-Furans	23.33	6.584e3	1.011e4	5.214e2	7.143e2	0.73	NO	1.236e3	0.13727	0.13727	0.0684
12	Total Tetra-Furans	23.53	6.925e4	8.759e4	3.467e3	4.677e3	0.74	NO	8.144e3	0.90476	0.90476	0.0684
13	Total Tetra-Furans	23.59	2.360e5	3.461e5	2.528e4	3.366e4	0.75	NO	5.894e4	6.5483	6.5483	0.0684
14	Total Tetra-Furans	24.15	5.867e5	7.973e5	5.014e4	6.729e4	0.75	NO	1.174e5	13.047	13.047	0.0684
15	Total Tetra-Furans	24.46	2.474e4	2.965e4	1.680e3	2.333e3	0.72	NO	4.012e3	0.44577	0.44577	0.0684
16	Total Tetra-Furans	24.67	2.259e4	3.174e4	1.740e3	2.214e3	0.79	NO	3.953e3	0.43920	0.43920	0.0684
17	Total Tetra-Furans	24.91	9.246e3	1.223e4	6.032e2	6.993e2	0.86	NO	1.302e3	0.14470	0.14470	0.0684
18	Total Tetra-Furans	25.02	2.295e5	3.084e5	1.598e4	2.126e4	0.75	NO	3.724e4	4.1377	4.1377	0.0684
19	2,3,7,8-TCDF	25.14	7.363e5	1.029e6	5.995e4	8.028e4	0.75	NO	1.402e5	15.579	15.579	0.0684
20	Total Tetra-Furans	25.27	1.451e4	1.427e4	1.011e3	1.301e3	0.78	NO	2.313e3	0.25696	0.25696	0.0684
21	Total Tetra-Furans	25.53	4.238e4	4.829e4	3.196e3	3.885e3	0.82	NO	7.081e3	0.78664	0.78664	0.0684
22	Total Tetra-Furans	25.80	1.149e4	1.350e4	6.121e2	7.133e2	0.86	NO	1.325e3	0.14725	0.14725	0.0684
23	Total Tetra-Furans	27.20	1.061e5	1.333e5	7.673e3	8.727e3	0.88	NO	1.640e4	1.8219	1.8219	0.0684

**Penta-Furans function 1**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.20	3.785e5	2.350e5	2.304e4	1.490e4	1.55	NO	3.794e4	4.0237	4.0237	0.0132

Dataset: U:\WG12.PRO\Results\200518R2\200518R2-16.qld

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46, ID: 20 Name: 200518R2\_16, Date: 19-May-2020, Time: 01:35:46, ID: 2000951-03RE1 PDI-159SC-A-01-02-200423 12.5, Description: PDI-159SC-A-01-02-200423

**Penta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.68	3.070e4	1.973e4	1.669e3	9.943e2	1.68	NO	2.664e3	0.28246	0.28246	0.0863
2	Total Penta-Furans	28.84	8.508e5	5.874e5	6.430e4	4.230e4	1.52	NO	1.066e5	11.304	11.304	0.0863
3	Total Penta-Furans	28.90	7.550e4	4.711e4	2.173e3	1.425e3	1.52	NO	3.598e3	0.38153	0.38153	0.0863
4	Total Penta-Furans	29.43	3.108e5	2.113e5	1.896e4	1.238e4	1.53	NO	3.134e4	3.3231	3.3231	0.0863
5	Total Penta-Furans	29.51	3.090e4	1.955e4	1.078e3	7.999e2	1.35	NO	1.878e3	0.19913	0.19913	0.0863
6	Total Penta-Furans	29.66	2.719e5	1.739e5	1.421e4	9.366e3	1.52	NO	2.357e4	2.4996	2.4996	0.0863
7	1,2,3,7,8-PeCDF	29.84	2.155e6	1.386e6	1.150e5	7.491e4	1.54	NO	1.899e5	19.758	19.758	0.0853
8	Total Penta-Furans	29.90	1.134e5	6.615e4	3.603e3	2.074e3	1.74	NO	5.677e3	0.60202	0.60202	0.0863
9	Total Penta-Furans	30.12	6.229e5	4.117e5	3.523e4	2.269e4	1.55	NO	5.791e4	6.1411	6.1411	0.0863
10	Total Penta-Furans	30.85	9.770e5	6.198e5	5.159e4	3.199e4	1.61	NO	8.358e4	8.8625	8.8625	0.0863
11	2,3,4,7,8-PeCDF	30.88	4.412e5	2.834e5	8.472e3	5.752e3	1.47	NO	1.422e4	1.4486	1.4486	0.0821
12	Total Penta-Furans	31.78	5.109e4	3.087e4	2.736e3	1.722e3	1.59	NO	4.459e3	0.47283	0.47283	0.0863

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.49	1.438e5	1.281e5	6.761e3	5.735e3	1.18	NO	1.250e4	1.9753	1.9753	0.0878
2	Total Hexa-Furans	32.66	4.807e5	3.982e5	2.276e4	1.915e4	1.19	NO	4.192e4	6.6259	6.6259	0.0878
3	Total Hexa-Furans	33.21	4.836e5	4.010e5	2.251e4	1.879e4	1.20	NO	4.130e4	6.5282	6.5282	0.0878
4	Total Hexa-Furans	33.57	2.030e4	1.641e4	9.938e2	8.536e2	1.16	NO	1.847e3	0.29203	0.29203	0.0878
5	1,2,3,4,7,8-HxCDF	33.66	2.811e6	2.329e6	1.405e5	1.175e5	1.20	NO	2.580e5	42.314	42.314	0.0824
6	1,2,3,6,7,8-HxCDF	33.79	7.460e5	6.243e5	4.156e4	3.421e4	1.21	NO	7.577e4	11.307	11.307	0.0821
7	2,3,4,6,7,8-HxCDF	34.37	1.625e5	1.355e5	8.405e3	6.737e3	1.25	NO	1.514e4	2.4173	2.4173	0.0870
8	1,2,3,7,8,9-HxCDF	35.30	1.809e5	1.387e5	1.023e4	7.999e3	1.28	NO	1.823e4	3.4888	3.4888	0.120
9	Total Hexa-Furans	35.33	7.707e4	5.522e4	1.246e3	9.032e2	1.38	NO	0.000e0	0.00000	0.33972	0.0878

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46: ID: 200518R2\_16, Date: 19-May-2020, Time: 01:35:46, ID: 2000951-03RE1 PDI-159SC-A-01-02-200423 12.5, Description: PDI-159SC-A-01-02-200423

Hepta-Furans

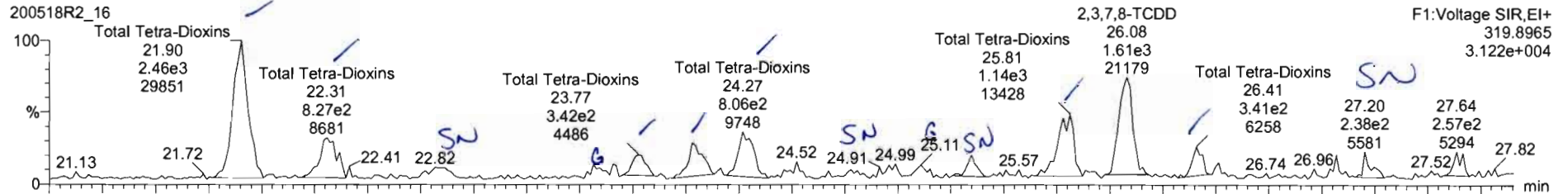
	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	37.00	9.102e5	8.957e5	5.716e4	5.616e4	1.02	NO	1.133e5	26.246	26.246	0.128
2	Total Hepta-Furans	37.39	1.524e4	1.371e4	8.042e2	7.382e2	1.09	NO	1.542e3	0.42254	0.42254	0.142
3	Total Hepta-Furans	37.59	8.594e5	8.362e5	5.632e4	5.488e4	1.03	NO	1.112e5	30.466	30.466	0.142
4	1,2,3,4,7,8,9-HpCDF	39.00	2.350e5	2.352e5	1.278e4	1.236e4	1.03	NO	2.514e4	7.2576	7.2576	0.140

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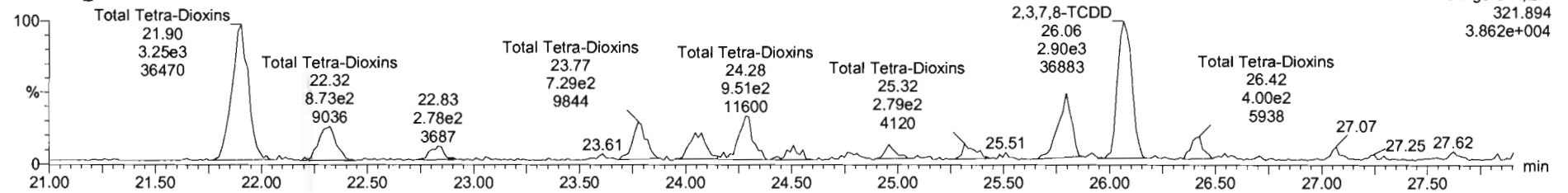
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Name: 200518R2\_16, Date: 19-May-2020, Time: 01:35:46, ID: 2000951-03RE1 PDI-159SC-A-01-02-200423 12.5, Description: PDI-159SC-A-01-02-200423

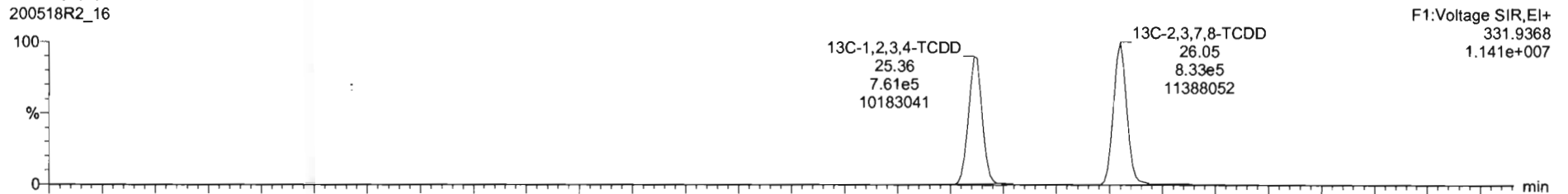
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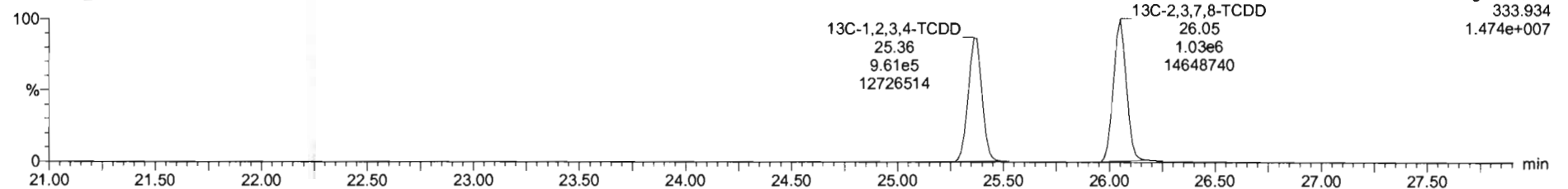
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13C-2,3,7,8-TCDD

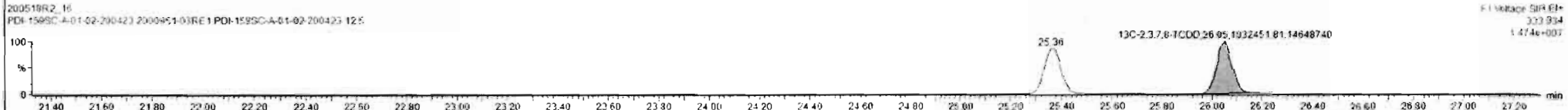
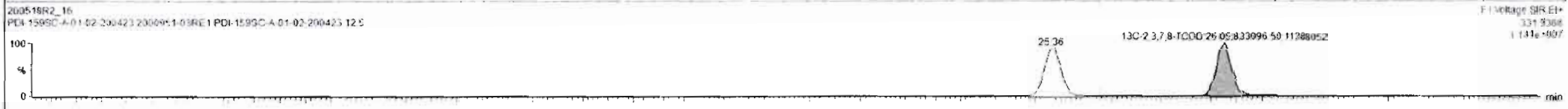
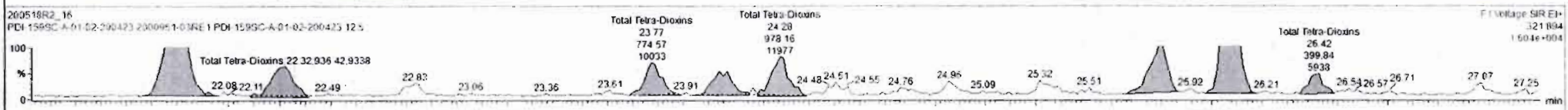
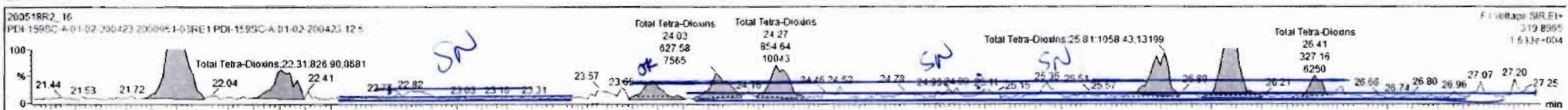


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Name	Resp	RA	n/y	RRF	w/wd	HT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.022			1.68		0.6453	2.15
40 Total Penta-Dioxins				0.9425	10.022			2.29		0.0437	2.73
41 Total Hexa-Dioxins				0.5145	10.022			17.7		0.0670	17.6

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Dioxins	21.90	2.463e3	3.247e3	0.76	NO	0.64470	0.64470
2 Total Tetra-Dioxins	22.31	8.269e2	9.364e2	0.68	NO	0.13909	0.13909
3 Total Tetra-Dioxins	23.77	5.209e2	7.746e2	0.67	NO	0.14627	0.14627
4 Total Tetra-Dioxins	24.03	6.276e2	7.129e2	0.86	NO	0.15135	0.15135
5 Total Tetra-Dioxins	24.27	8.546e2	9.782e2	0.67	NO	0.20694	0.20694
6 Total Tetra-Dioxins	25.81	1.056e3	1.229e3	0.66	NO	0.25831	0.25831
7 2,3,7,8-TCDD	26.05	1.770e3	2.855e3	0.61	YES	0.45942	0.00000
8 Total Tetra-Dioxins	26.41	3.272e2	3.998e2	0.82	NO	0.052094	0.052094





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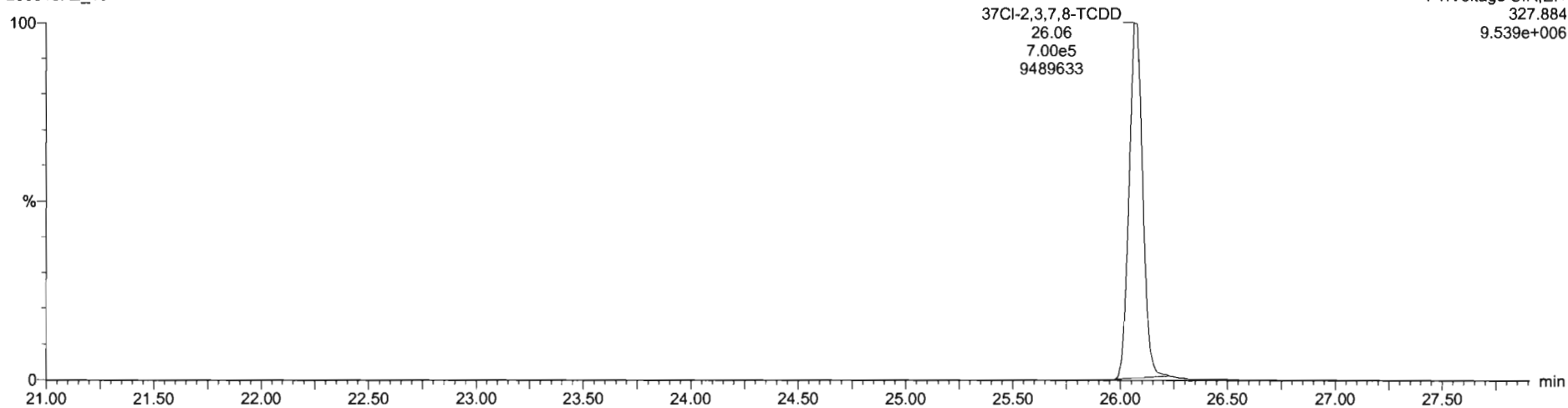
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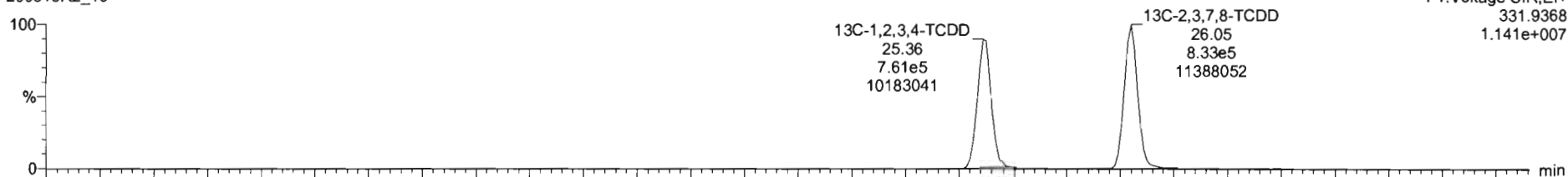
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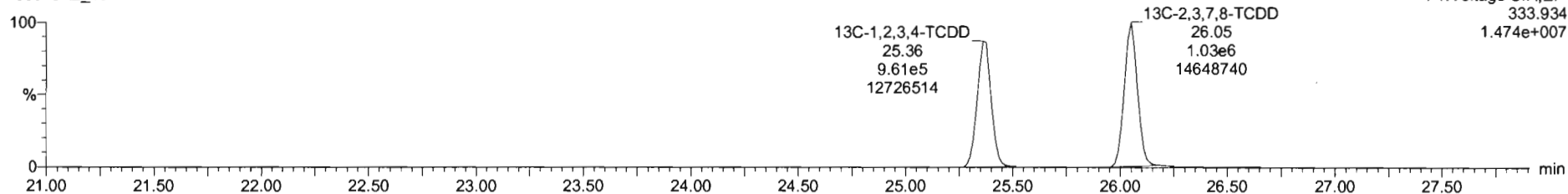


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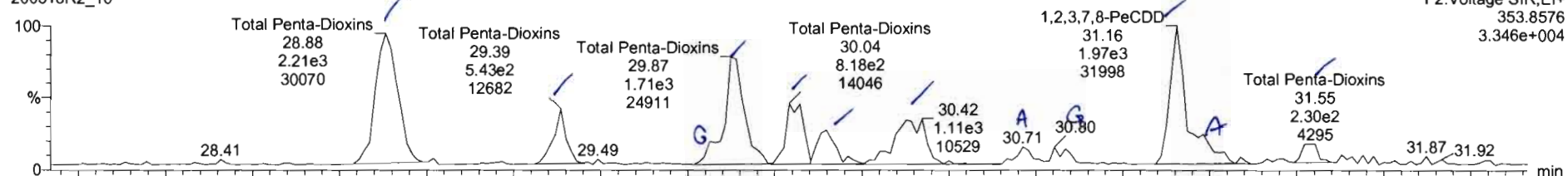
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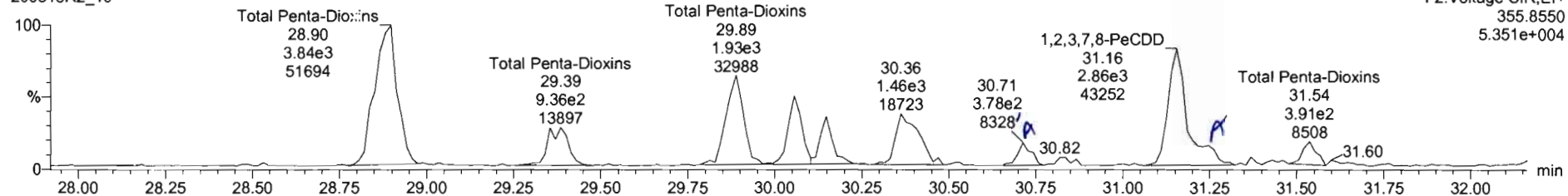
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1,2,3,7,8-PeCDD

200518R2\_16

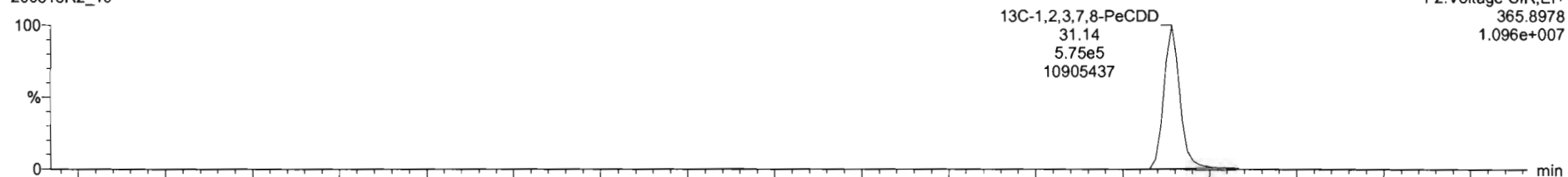


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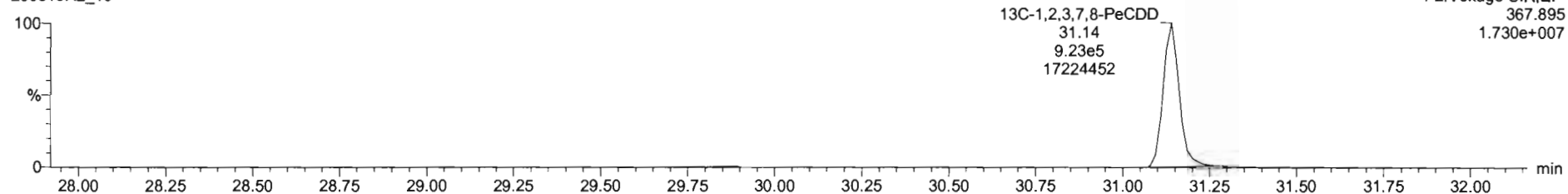


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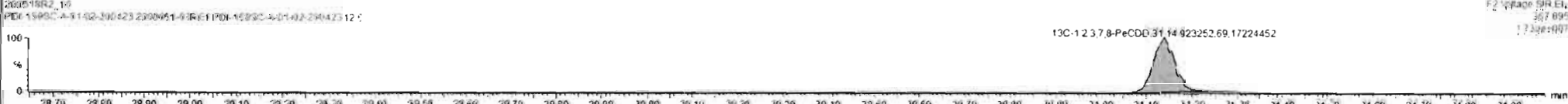
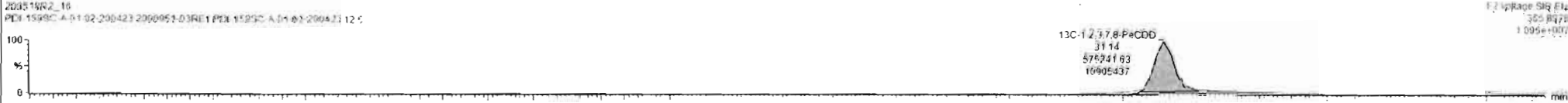
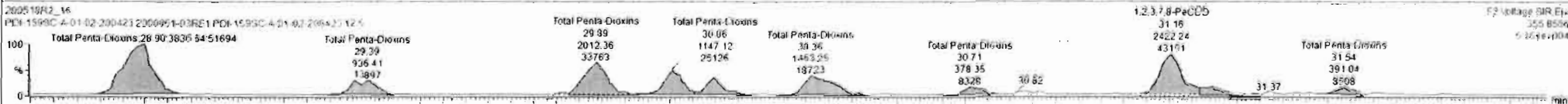
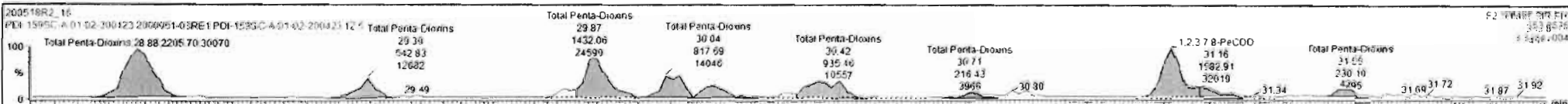


200518R2\_16



Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conn	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.0425	10.022			2.26	0.0437	3.20	
41 Total Hexa-Dioxins				0.0145	10.022			17.7	0.0670	17.6	
42 Total Hepta-Dioxins				0.0975	10.022			155	0.292	155	

Name	RT	n1 Resp	m2 Resp	RA	n/y	EMPC	Conn
1 Total Penta-Dioxins	28.88	2.20e3	3.637e3	0.57	NO	0.05385	0.05385
2 Total Penta-Dioxins	29.39	5.428e2	9.364e2	0.58	NO	0.20503	0.20903
3 Total Penta-Dioxins	29.67	1.432e3	2.012e3	0.71	NO	0.46672	0.00000
4 Total Penta-Dioxins	30.04	6.177e2	1.147e3	0.71	NO	0.27755	0.00000
5 Total Penta-Dioxins	30.15	4.971e2	7.429e2	0.67	NO	0.17521	0.00000
6 Total Penta-Dioxins	30.42	9.355e2	1.463e3	0.64	NO	0.33896	0.33696
7 Total Penta-Dioxins	30.71	2.184e2	3.783e2	0.57	NO	0.084048	0.084048
8 1,2,3,7,8-PeCDD	31.16	1.582e3	2.422e3	0.65	NO	0.56597	0.56597
9 Total Penta-Dioxins	31.23	3.534e2	5.020e2	0.70	NO	0.12068	0.12068
10 Total Penta-Dioxins	31.55	2.301e2	3.910e2	0.59	NO	0.087773	0.087773



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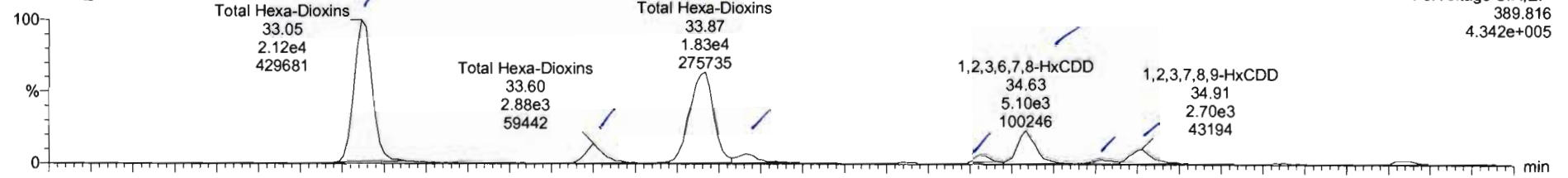
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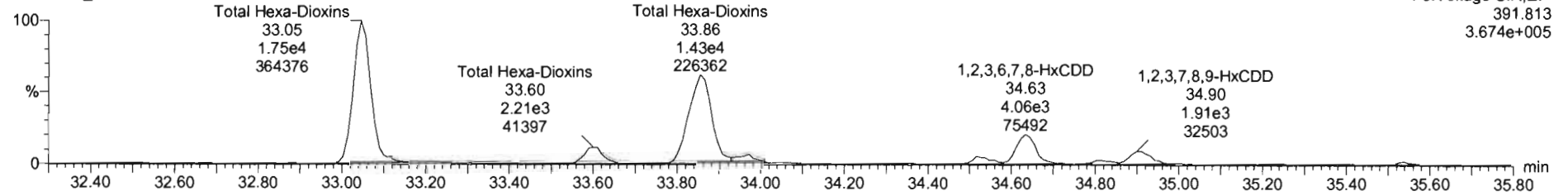
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1,2,3,4,7,8-HxCDD

200518R2\_16

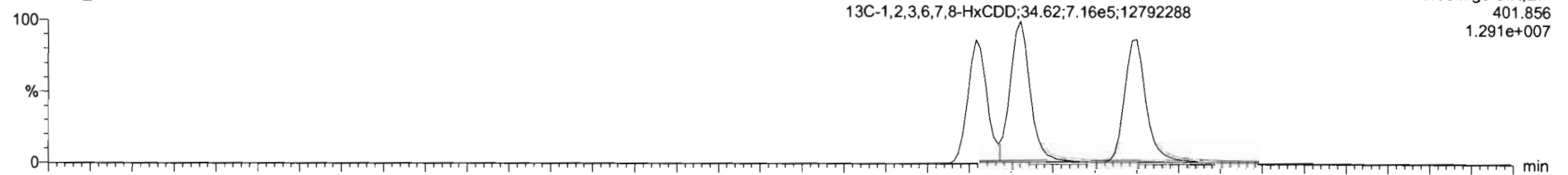


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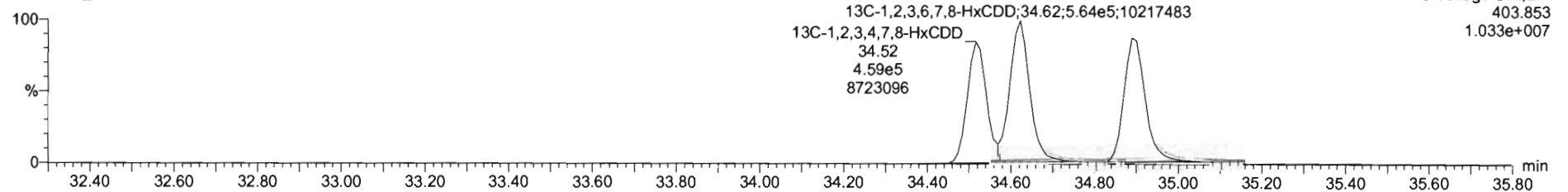


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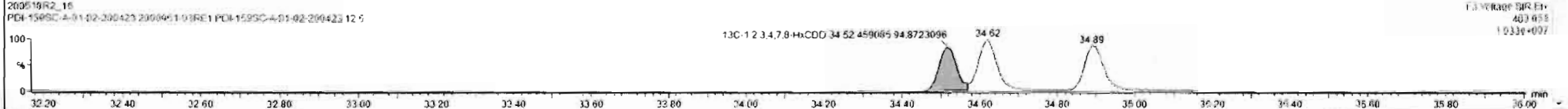
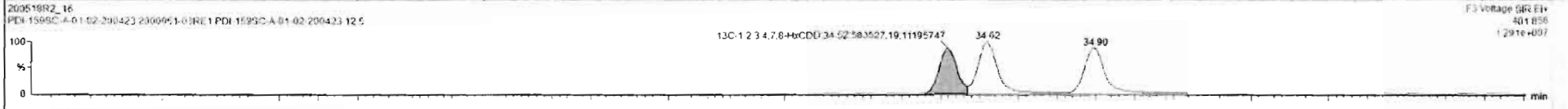
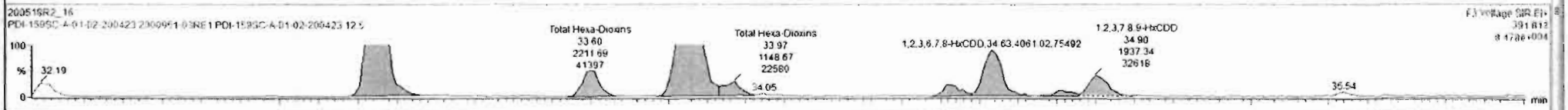
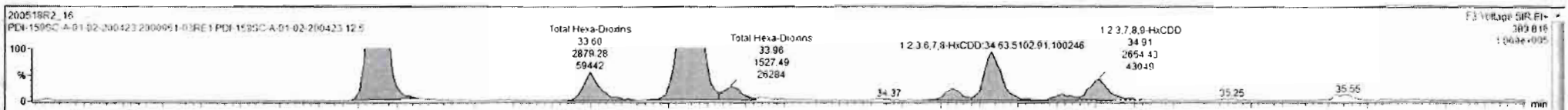


200518R2\_16



#	Name	Resp	RA	n/y	RRF	w/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
40	Total Hexa-Dioxins				0.9425	10.022			2.25		0.0437	3.20
41	Total Hexa-Dioxins				0.9145	10.022			17.7		0.0670	17.7
42	Total Hepta-Dioxins				0.8979	10.022			155		0.292	155

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	Total Hexa-Dioxins	33.05	2.121e4	1.745e4	1.21	NO	7.1936	7.1936
2	Total Hexa-Dioxins	33.60	2.679e3	2.212e3	1.20	NO	0.94701	0.94701
3	Total Hexa-Dioxins	33.87	1.827e4	1.434e4	1.27	NO	6.0646	6.0646
4	Total Hexa-Dioxins	33.90	1.527e3	1.149e3	1.33	NO	0.49781	0.49781
5	1,2,3,4,7,8-HxCDD	34.54	1.220e2	9.659e2	1.27	NO	0.39478	0.39478
6	1,2,3,6,7,8-HxCDD	34.63	5.103e3	4.051e3	1.26	NO	1.5624	1.5624
7	Total Hexa-Dioxins	34.81	6.637e2	4.801e2	1.42	NO	0.21650	0.21650
8	1,2,3,7,8,9-HxCDD	34.91	2.854e3	1.937e3	1.37	NO	0.83886	0.83886



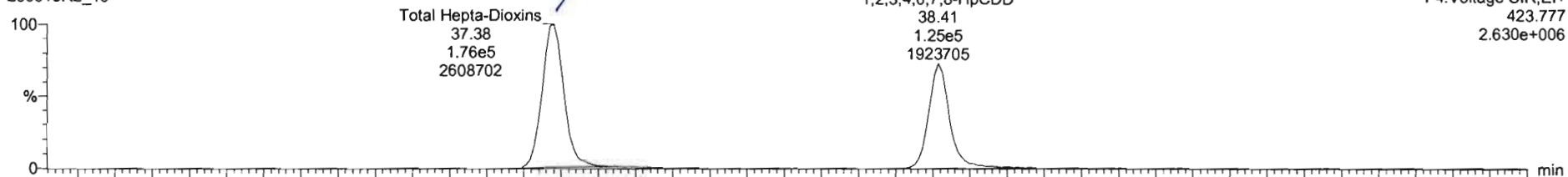
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Printed: Tuesday, May 19, 2020 07:47:40 Pacific Daylight Time

Name: 200518R2\_16, Date: 19-May-2020, Time: 01:35:46, ID: 2000951-03RE1 PDI-159SC-A-01-02-200423 12.5, Description: PDI-159SC-A-01-02-200423

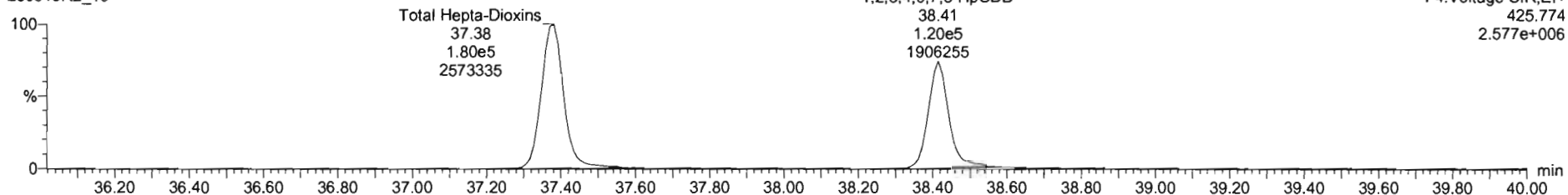
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200518R2\_16



F4:Voltage SIR,EI+  
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2.630e+006

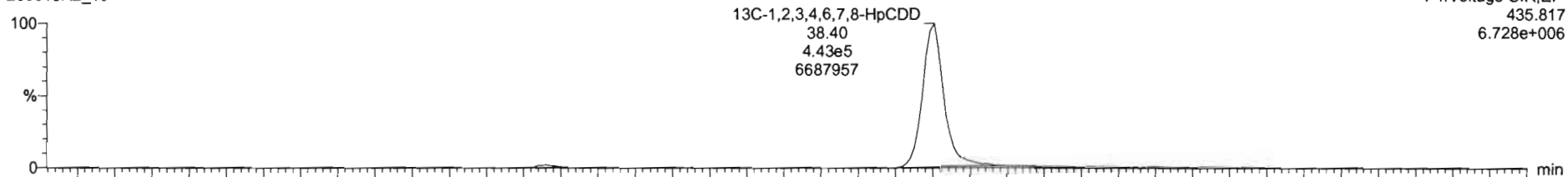
200518R2\_16



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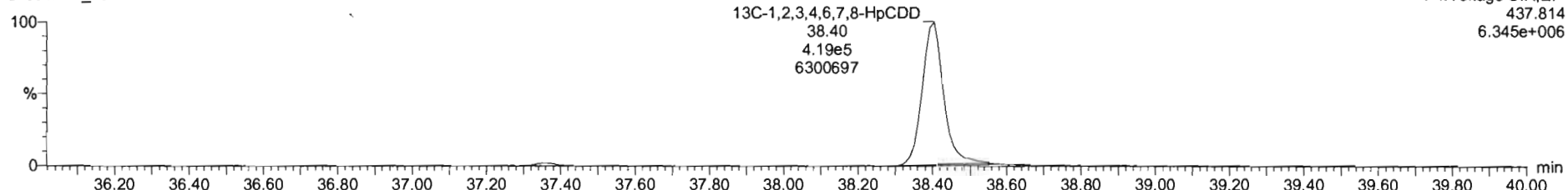
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200518R2\_16



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200518R2\_16

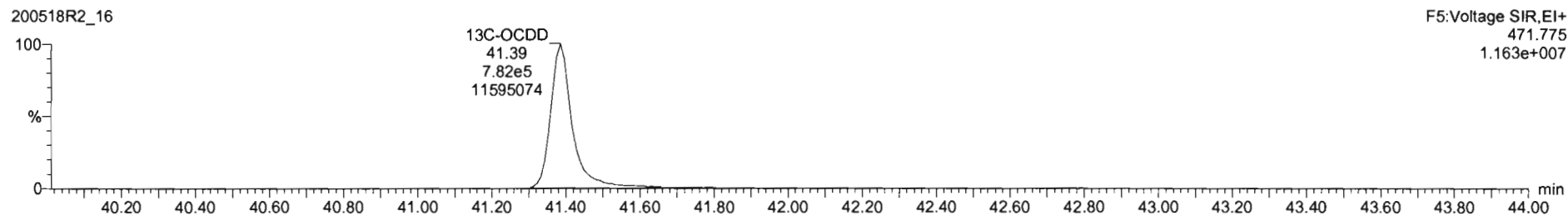
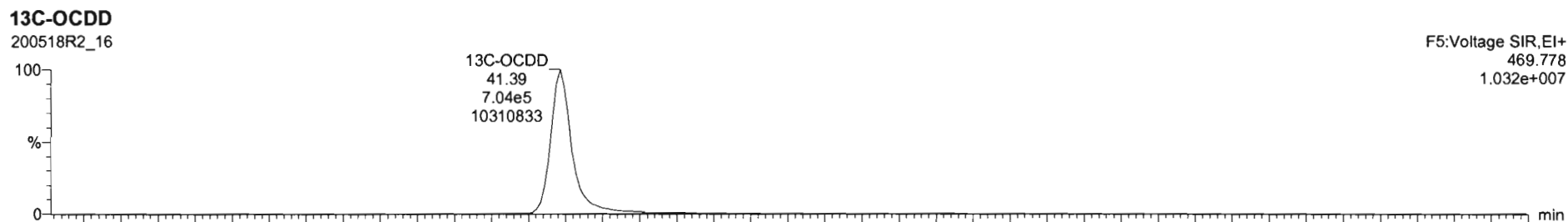
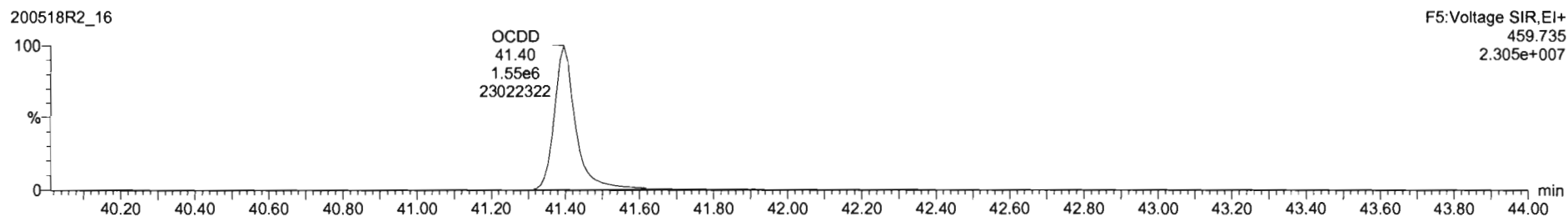
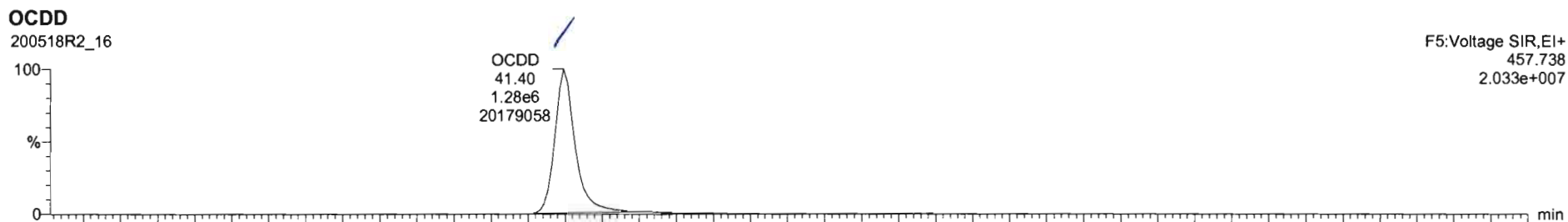


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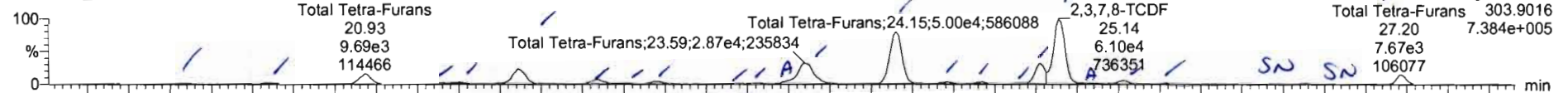
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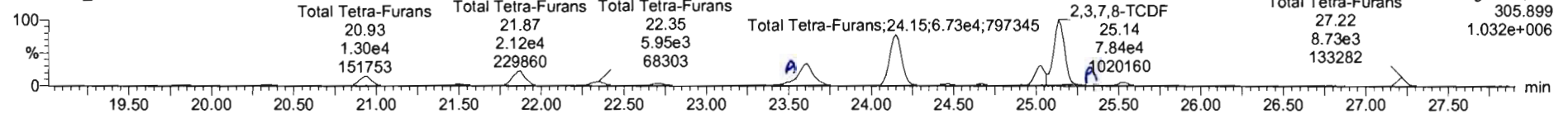
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**2,3,7,8-TCDF**

200518R2\_16

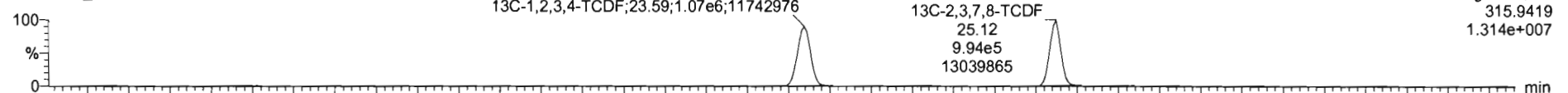


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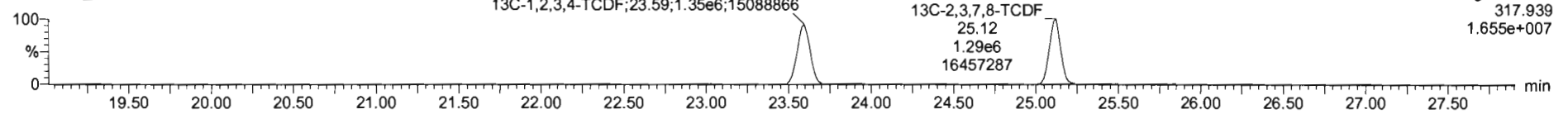


**13C-2,3,7,8-TCDF**

200518R2\_16

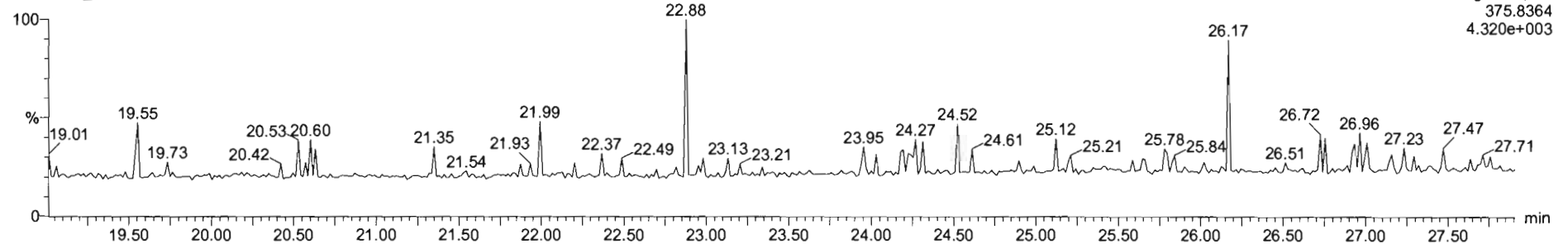


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**DPE1**

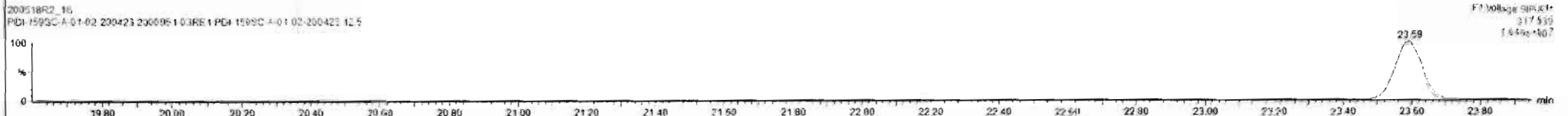
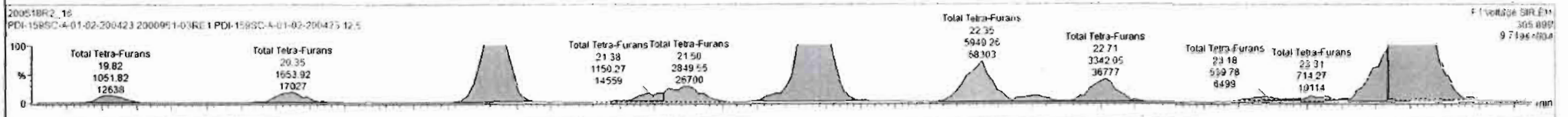
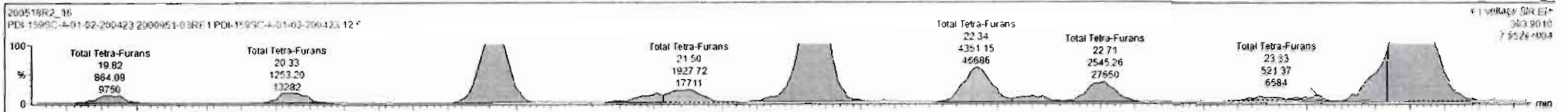
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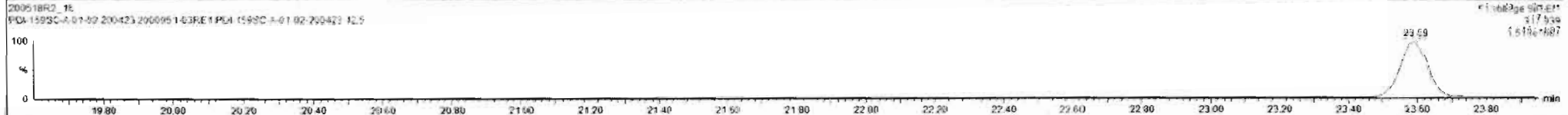
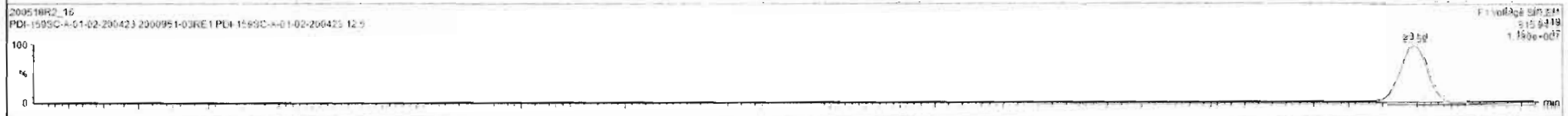
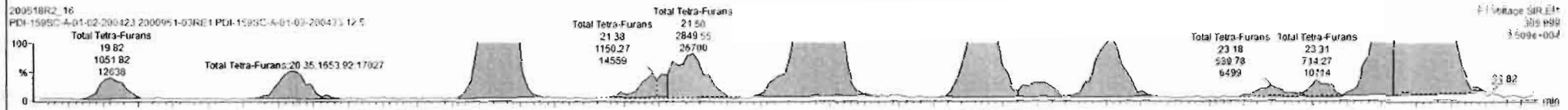
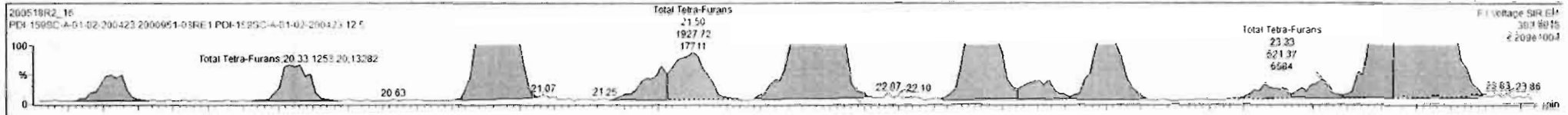
Name	Resp	RA	n/y	RIF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.9425	10.022			2.26		0.0437	2.20
41 Total Hexa-Dioxins				0.9145	10.022			17.7		0.0670	17.7
42 Total Hepta-Dioxins				0.8979	10.022			155		0.292	155

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Furans	19.32	6.541e2	1.052e3	0.82	NO	0.21285	0.21285
2 Total Tetra-Furans	20.33	1.253e2	1.654e3	0.76	NO	0.32297	0.32297
3 Total Tetra-Furans	20.93	9.687e3	1.296e4	0.75	NO	2.5182	2.5182
4 Total Tetra-Furans	21.41	6.915e2	1.150e3	0.77	NO	0.22683	0.22683
5 Total Tetra-Furans	21.50	1.926e3	2.650e3	0.68	NO	0.53073	0.53073
6 Total Tetra-Furans	21.86	1.599e4	2.123e4	0.75	NO	4.1354	4.1354
7 Total Tetra-Furans	22.34	4.351e3	5.940e3	0.73	NO	1.1443	1.1443
8 Total Tetra-Furans	22.50	6.765e2	8.028e2	0.84	NO	0.16424	0.16434
9 Total Tetra-Furans	22.71	2.545e3	3.342e3	0.76	NO	0.65405	0.65405
10 Total Tetra-Furans	23.16	4.441e2	5.399e2	0.82	NO	0.10930	0.10930
11 Total Tetra-Furans	23.33	5.214e2	7.143e2	0.73	NO	0.13727	0.09000
12 Total Tetra-Furans	23.53	3.467e3	4.677e3	0.74	NO	0.90476	0.90476
13 Total Tetra-Furans	23.59	2.526e4	3.366e4	0.75	NO	6.5483	6.5483



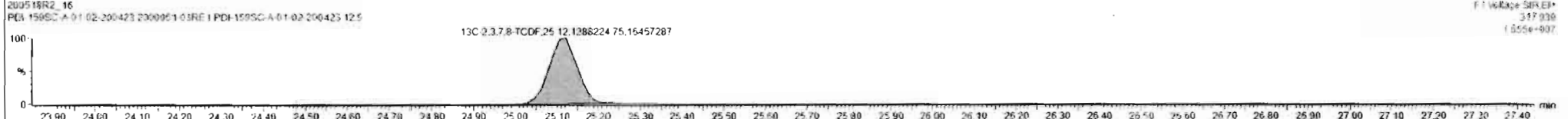
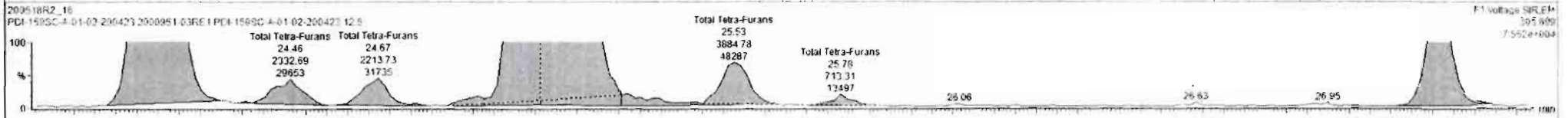
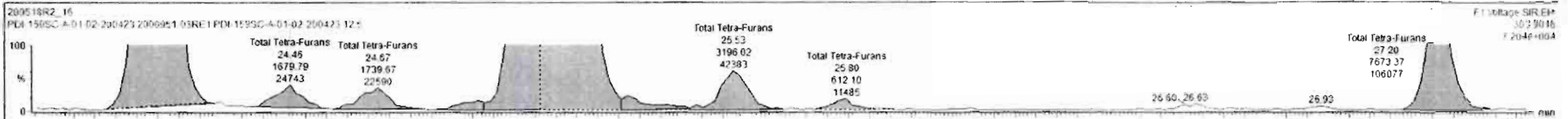
Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.9425	10.022			2.26		0.0437	3.20
41 Total Hexa-Dioxins				0.9145	10.022			17.7		0.0670	17.7
42 Total Hepta-Dioxins				0.8979	10.022			155		0.292	155

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	19.32	6.641e2	1.052e3	0.62	NO	0.21285	0.21285
2 Total Tetra-Furans	20.33	1.250e2	1.654e3	0.76	NO	0.32297	0.32297
3 Total Tetra-Furans	20.93	9.687e3	1.298e4	0.75	NO	2.5182	0.5182
4 Total Tetra-Furans	21.41	6.911e2	1.150e3	0.77	NO	0.22683	0.22683
5 Total Tetra-Furans	21.50	1.928e2	2.850e3	0.68	NO	0.53073	0.53073
6 Total Tetra-Furans	21.66	1.599e4	2.123e4	0.75	NO	4.1354	4.1354
7 Total Tetra-Furans	22.34	4.351e3	5.949e3	0.73	NO	1.1443	1.1443
8 Total Tetra-Furans	22.50	6.765e2	6.029e2	0.84	NO	0.16424	0.16434
9 Total Tetra-Furans	22.71	2.545e3	3.242e3	0.76	NO	0.65406	0.65405
10 Total Tetra-Furans	23.16	4.441e2	5.398e2	0.82	NO	0.10930	0.10930
11 Total Tetra-Furans	23.33	5.214e2	7.143e2	0.73	NO	0.13727	0.09000
12 Total Tetra-Furans	23.53	3.467e2	4.677e3	0.74	NO	0.90476	0.90476
13 Total Tetra-Furans	23.59	2.528e4	3.366e4	0.75	NO	6.5483	6.5483



Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.9425	10.022			2.26	0.0437	3.20	
41 Total Hexa-Dioxins				0.9145	10.022			17.7	0.0670	17.7	
42 Total Hepta-Dioxins				0.8979	10.022			155	0.292	155	

Name	RT	n/y	Resp	m2 Resp	RA	n/y	EMPC	Conc.
14 Total Tetra-Furans	24.15		5.914e4	6.779e4	0.75	NO	13.047	13.047
15 Total Tetra-Furans	24.46		1.880e2	2.333e3	0.72	NO	0.4477	0.44577
16 Total Tetra-Furans	24.67		1.740e3	2.214e3	0.79	NO	0.43520	0.43920
17 Total Tetra-Furans	24.91		8.032e2	8.993e2	0.88	NO	0.14470	0.14470
18 Total Tetra-Furans	25.02		1.598e4	2.126e4	0.75	NO	4.1377	4.1377
19 2,3,7,8-TCDF	25.14		5.995e4	8.028e4	0.75	NO	15.573	15.573
20 Total Tetra-Furans	25.27		1.011e3	1.301e3	0.78	NO	0.25696	0.25696
21 Total Tetra-Furans	25.53		3.198e3	3.885e3	0.82	NO	0.78684	0.78684
22 Total Tetra-Furans	25.80		5.121e2	7.133e2	0.88	NO	0.14725	0.00000
23 Total Tetra-Furans	27.20		7.675e3	8.727e3	0.88	NO	1.8219	1.8219



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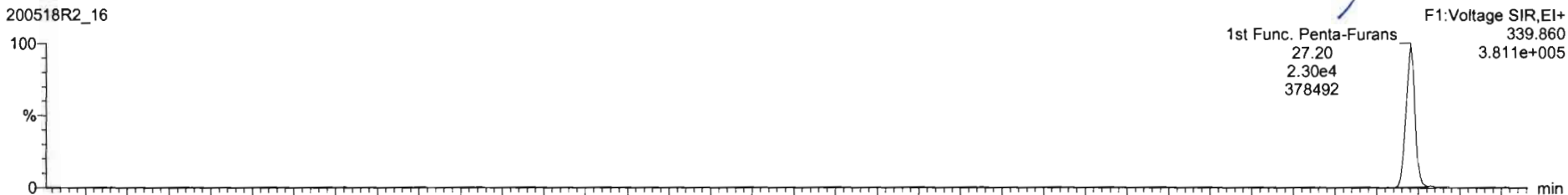
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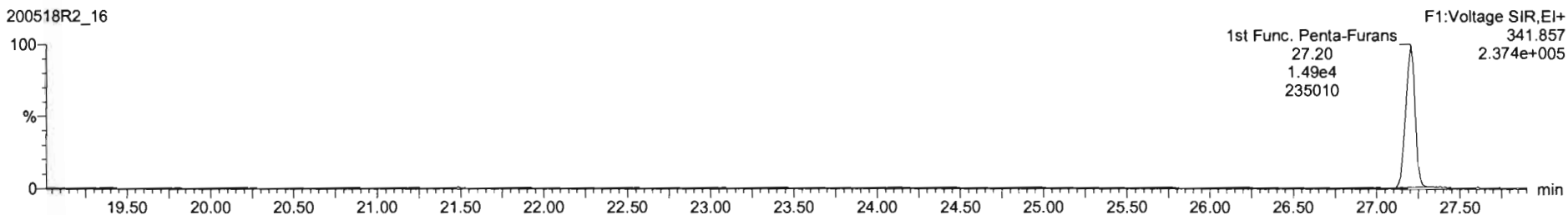
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1st Func. Penta-Furans

200518R2\_16

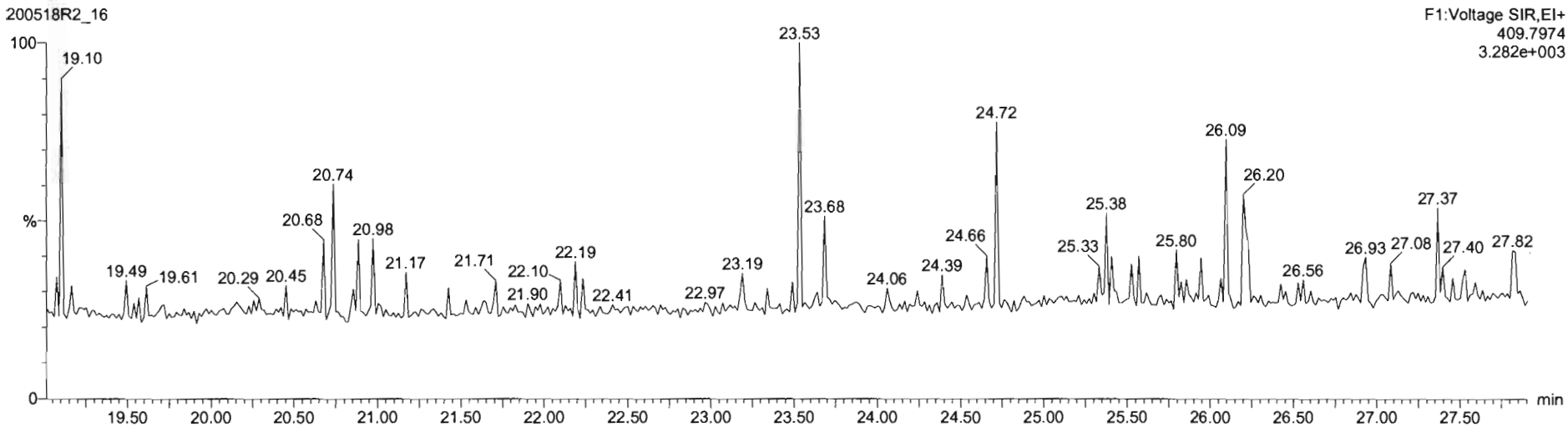


200518R2\_16



DPE6

200518R2\_16



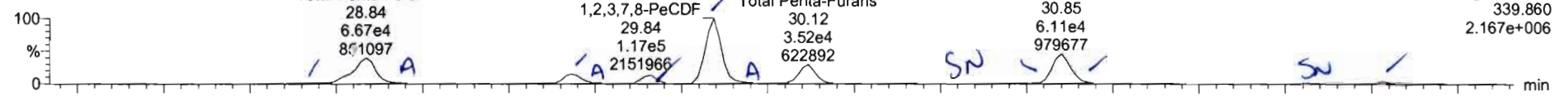
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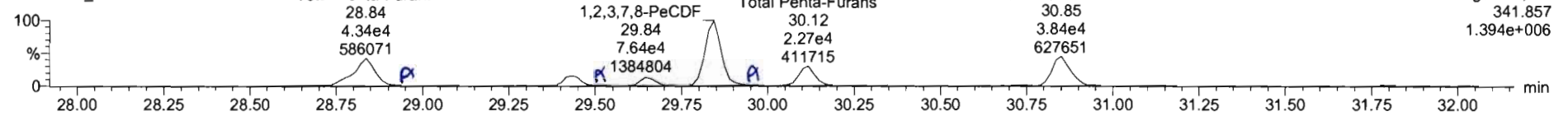
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**1,2,3,7,8-PeCDF**

200518R2\_16

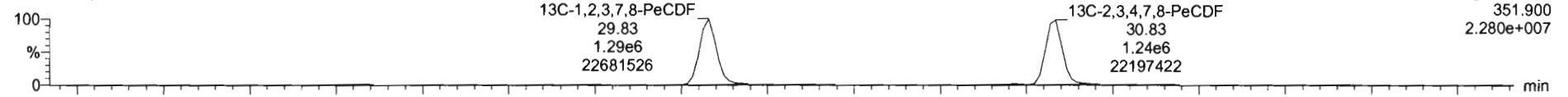


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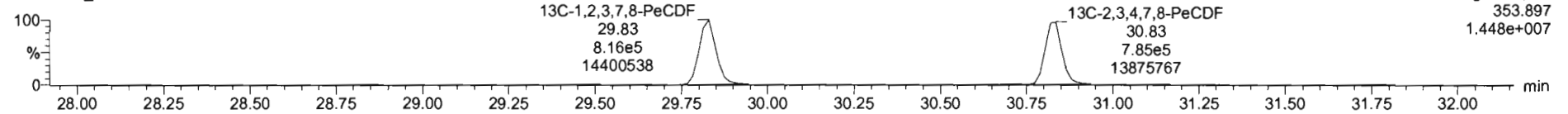


**13C-1,2,3,7,8-PeCDF**

200518R2\_16

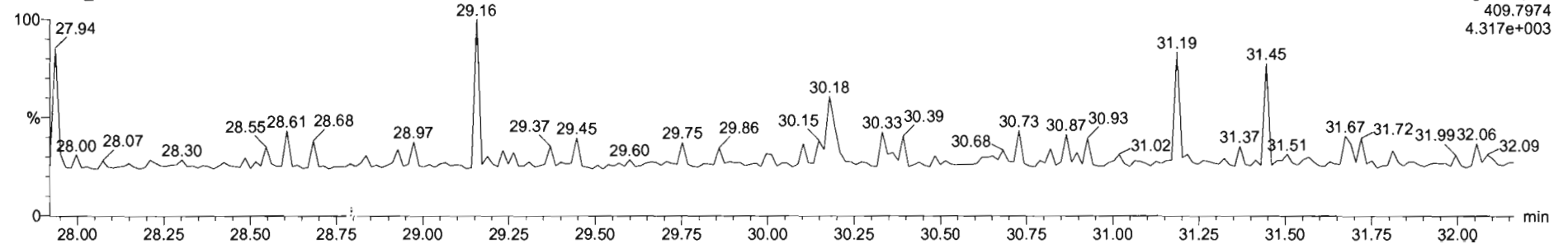


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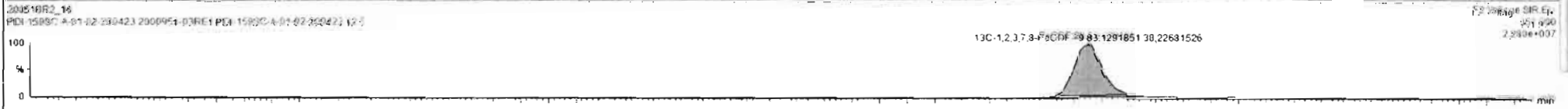
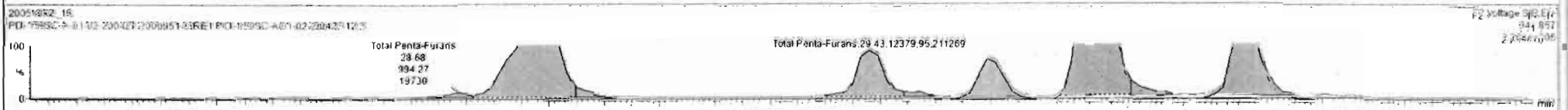
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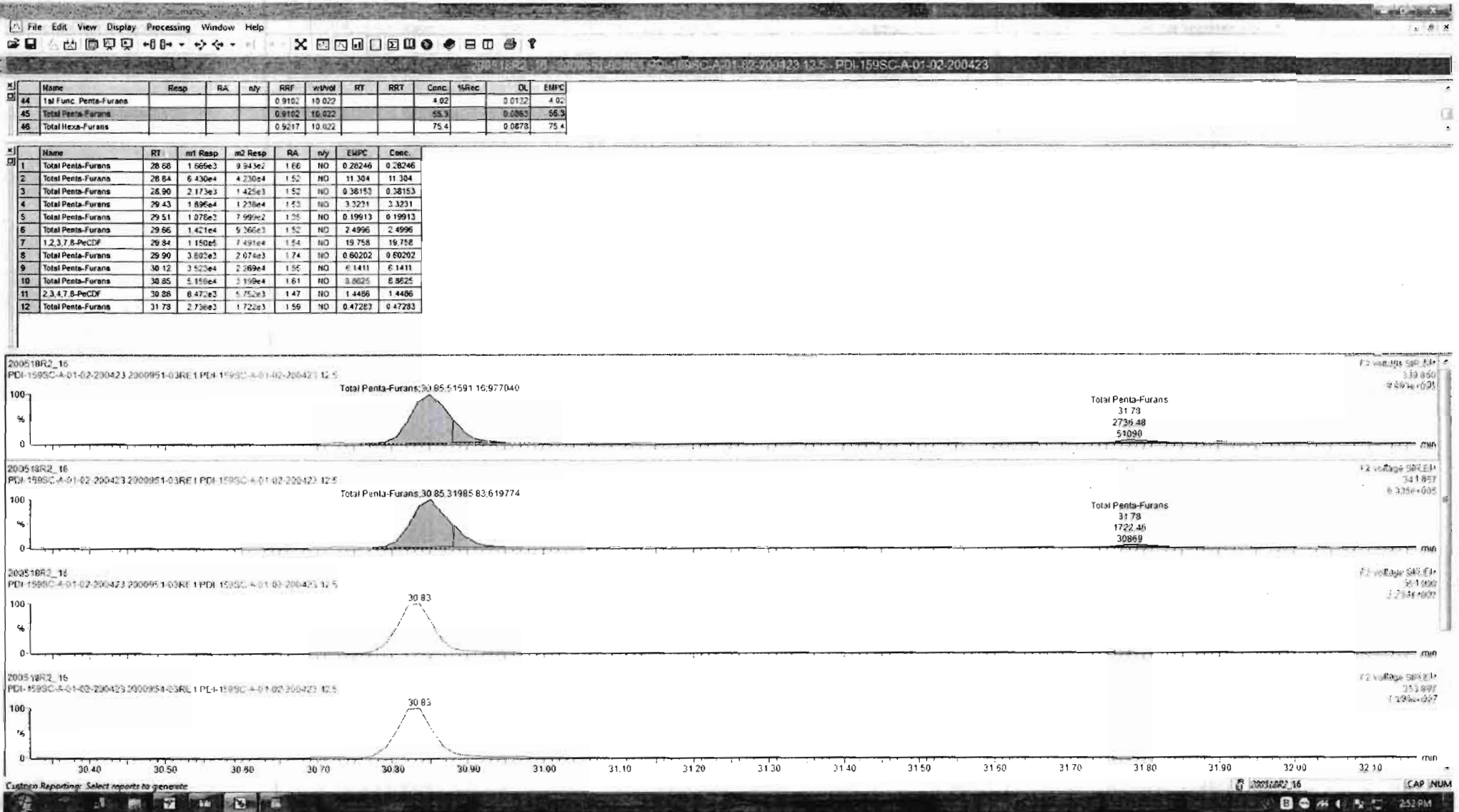
200518R2\_16



#	Name	Resp	RA	n/y	RRF	wVol	RT	RRT	Conc	%Rc	DL	EMPC
44	Total Penta-Furans				0.9102	10.022			4.02		0.0132	4.02
45	Total Penta-Furans				0.9102	10.022			55.1		0.0863	55.5
46	Total Hexa-Furans				0.9217	10.022			75.4		0.0878	75.4

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	Total Penta-Furans	28.68	1.609e3	9.943e2	1.66	NO	0.22246	0.26246
2	Total Penta-Furans	28.84	6.430e4	4.230e4	1.52	NO	11.304	11.384
3	Total Penta-Furans	28.90	2.173e3	1.425e3	1.52	NO	0.36153	0.38153
4	Total Penta-Furans	29.43	1.896e4	1.238e4	1.52	NO	3.3211	3.3231
5	Total Penta-Furans	29.51	1.078e3	7.999e2	1.26	NO	0.13613	0.19913
6	Total Penta-Furans	29.66	1.421e4	9.366e3	1.52	NO	2.4996	2.4996
7	1,2,3,7,8-PeCDF	29.84	1.150e4	7.491e4	1.54	NO	19.758	19.758
8	Total Penta-Furans	29.90	3.607e3	2.074e3	1.74	NO	0.62202	0.62202
9	Total Penta-Furans	30.12	3.523e4	2.289e4	1.55	NO	18.141	6.1418
10	Total Penta-Furans	30.73	6.682e2	8.072e2	1.00	YES	0.11518	0.00000
11	2,3,4,7,8-PeCDF	30.85	6.106e4	1.840e4	1.59	NO	10.132	10.132
12	Total Penta-Furans	31.13	2.281e2	4.009e2	0.58	YES	0.041537	0.00000
13	Total Penta-Furans	31.73	2.736e3	1.722e3	1.59	NO	0.47203	0.47203
14	Total Penta-Furans	31.90	1.207e3	5.372e2	2.28	YES	0.14521	0.00000
15	Total Penta-Furans	32.03	4.166e2	1.186e2	1.27	YES	0.07000	0.00000





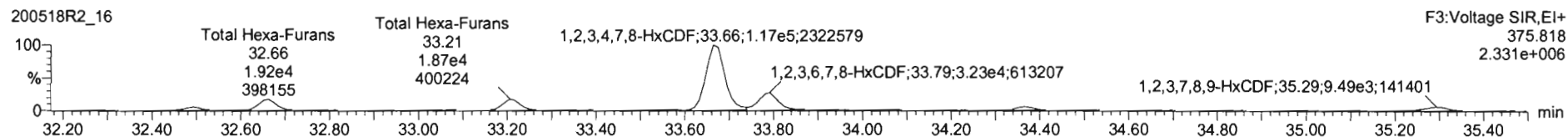
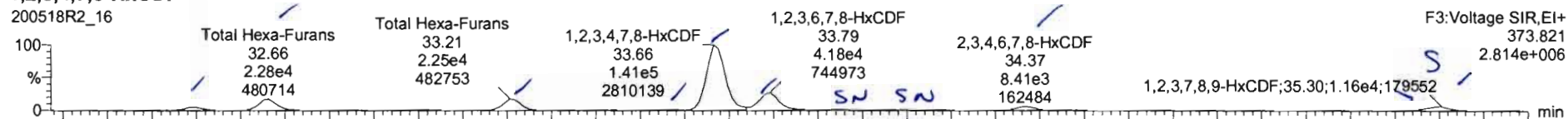
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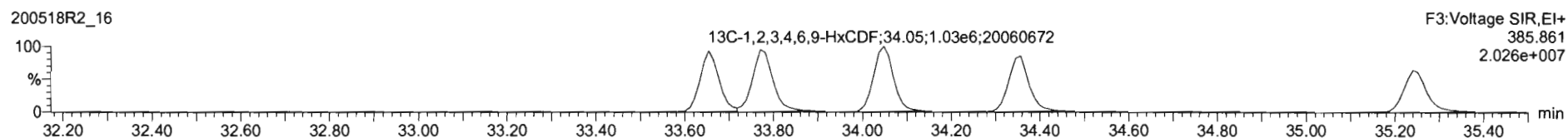
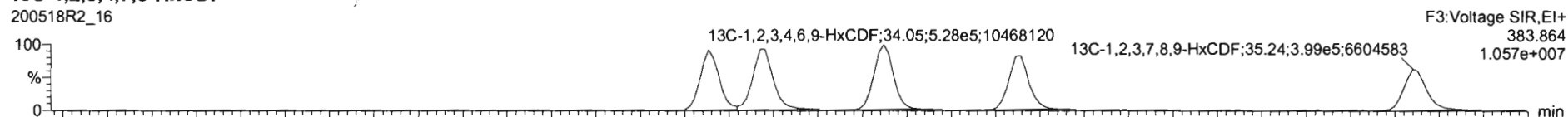
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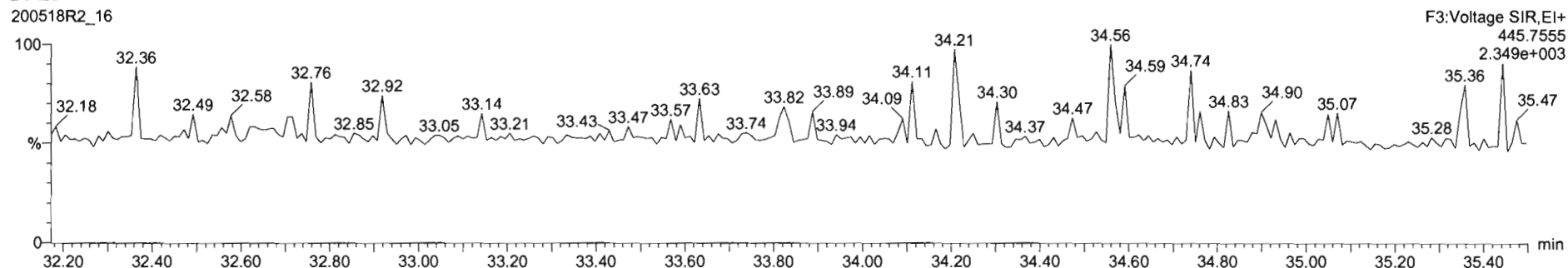
1,2,3,4,7,8-HxCDF



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



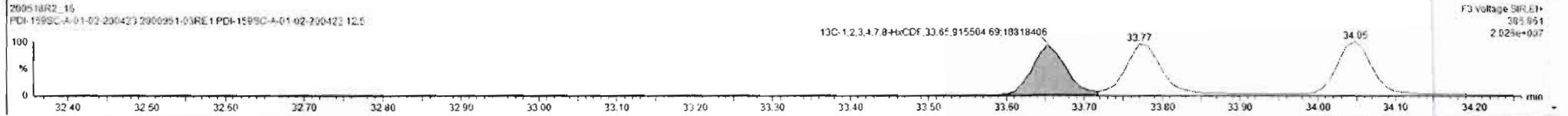
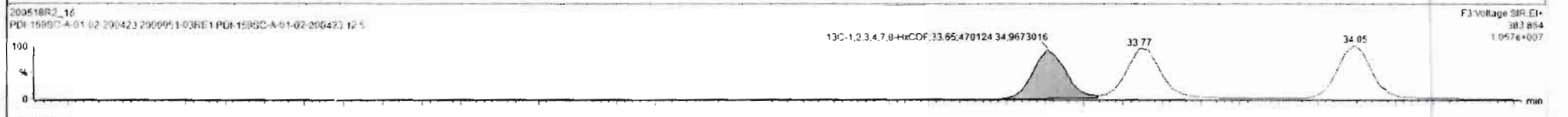
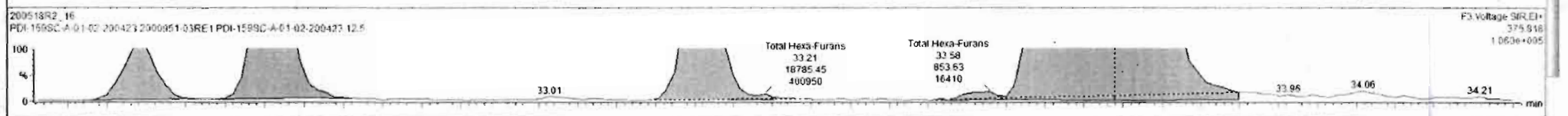
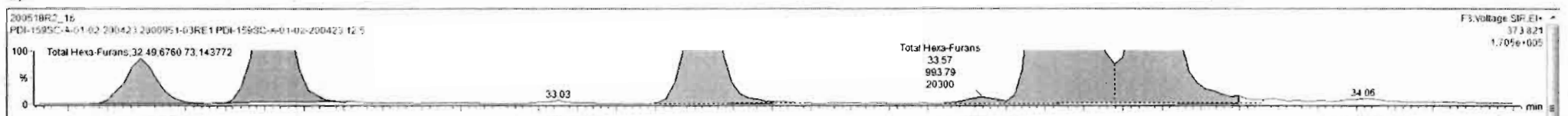
DPE3





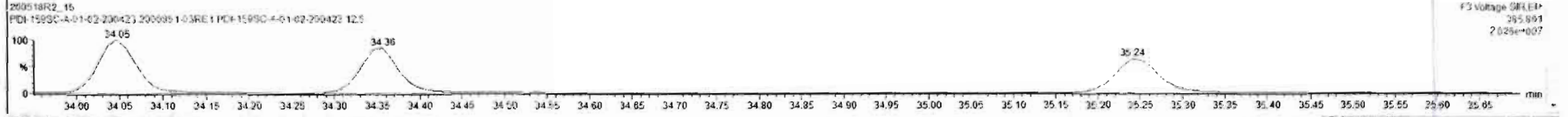
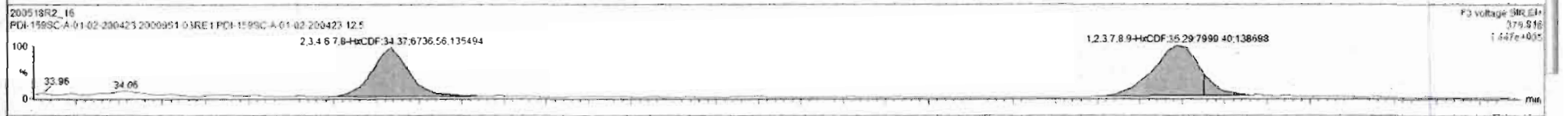
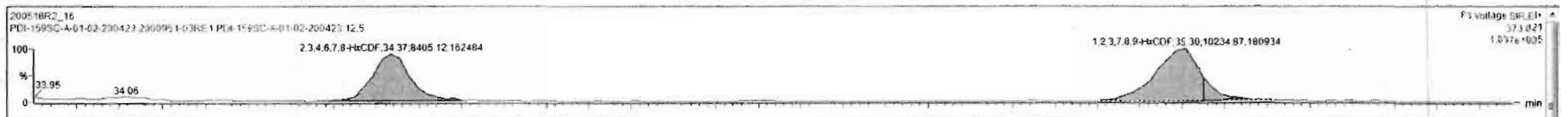
Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
44 Total Func. Penta-Furans				0.9102	10.022			4.02		0.0132	4.02
45 Total Penta-Furans				0.9102	10.022			55.3		0.0863	55.3
46 Total Hexa-Furans				0.9217	10.022			75.5		0.0878	75.5

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Furans	32.49	6.761e3	5.735e3	1.18	NO	1.9753	1.9753
2 Total Hexa-Furans	32.66	2.276e4	1.915e4	1.19	NO	6.6259	6.6259
3 Total Hexa-Furans	33.21	2.251e4	1.879e4	1.20	NO	6.5282	6.5282
4 Total Hexa-Furans	33.57	9.539e2	8.539e2	1.18	NO	0.26203	0.26203
5 1,2,3,4,7,8-HxCDF	33.68	1.405e5	1.175e5	1.20	NO	42.314	42.314
6 1,2,3,6,7,8-HxCDF	33.79	4.158e4	3.421e4	1.21	NO	11.307	11.307
7 2,3,4,6,7,8-HxCDF	34.37	8.405e3	8.737e3	1.25	NO	2.4173	2.4173
8 1,2,3,7,8-HxCDF	35.30	1.156e4	9.487e3	1.22	NO	4.0274	4.0274



Name	Resp	RA	n/y	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Hexa-Furans				0.9217	10.022			74.9		0.0878	75.3
47 Total Hepta-Furans				0.8712	10.022			64.4		0.142	64.7
48 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Furans	32.49	6.761e2	5.735e1	1.18	NO	1.9753	1.9753
2 Total Hexa-Furans	32.66	2.278e4	1.915e4	1.19	NO	6.6259	6.6259
3 Total Hexa-Furans	33.21	2.251e4	1.879e4	1.20	NO	6.5282	6.5282
4 Total Hexa-Furans	33.57	9.538e2	8.530e2	1.18	NO	0.29203	0.29203
5 1,2,3,4,7,8-HxCDF	33.86	1.405e5	1.175e5	1.20	NO	42.514	42.314
6 1,2,3,6,7,8-HxCDF	33.79	4.156e4	3.421e4	1.21	NO	11.307	11.307
7 2,3,4,6,7,8-HxCDF	34.37	8.405e3	6.737e3	1.25	NO	2.4173	2.4173
8 1,2,3,7,8,9-HxCDF	35.30	1.022e4	7.999e3	1.26	NO	3.4888	3.4888
9 Total Hexa-Furans	35.33	1.248e3	9.032e2	1.38	NO	0.13672	0.00000

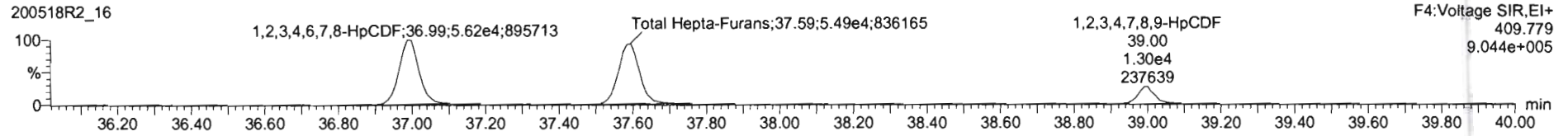
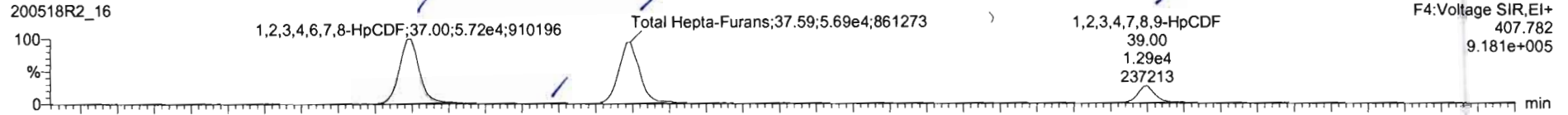


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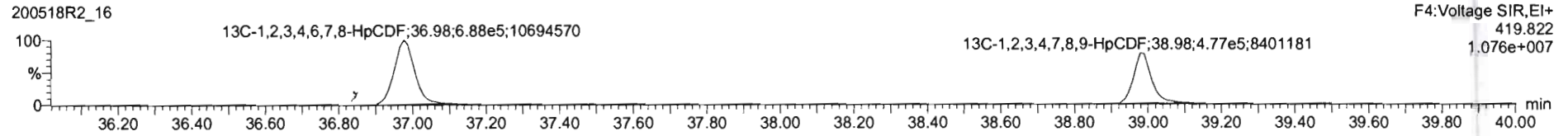
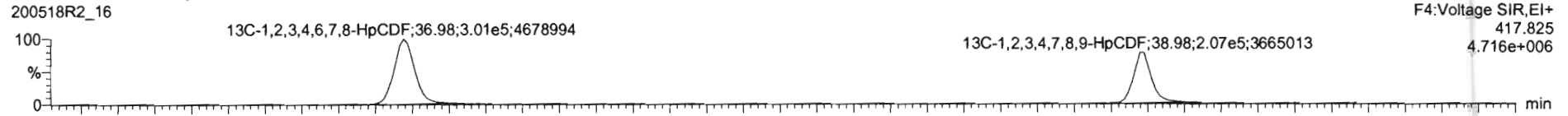
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Printed: Tuesday, May 19, 2020 07:47:40 Pacific Daylight Time

Name: 200518R2\_16, Date: 19-May-2020, Time: 01:35:46, ID: 2000951-03RE1 PDI-159SC-A-01-02-200423 12.5, Description: PDI-159SC-A-01-02-200423

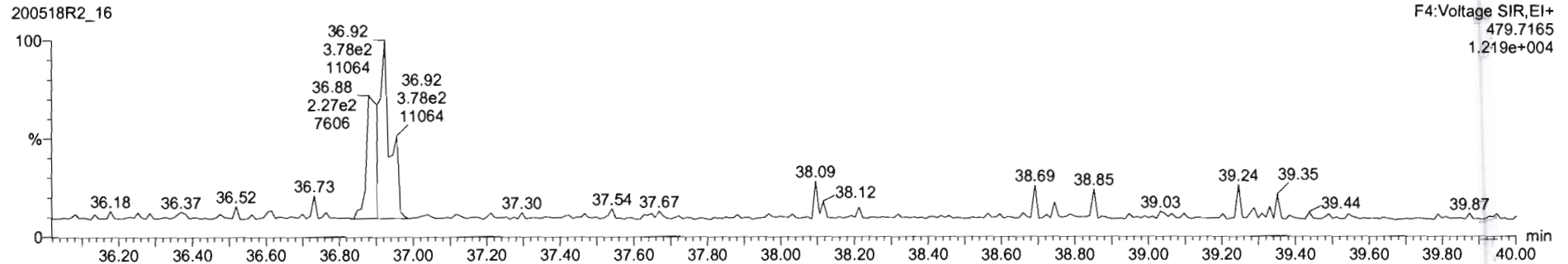
**1,2,3,4,6,7,8-HpCDF**



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

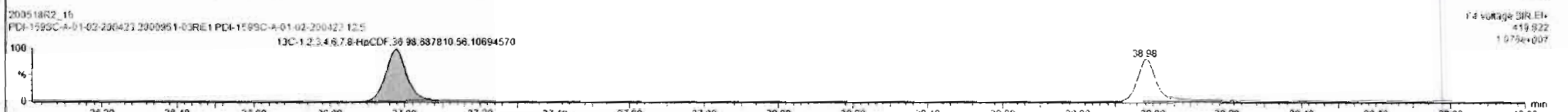
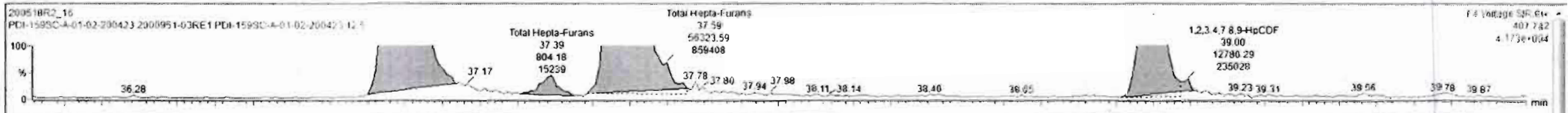


**DPE4**



#	Name	Resp	RA	n/y	RRF	w/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
46	Total Hexa-Furans				0.9217	10.022			74.9	0.0876	75.3	
47	Total Hepta-Furans				0.8712	10.022			64.4	0.142	64.4	
48	PFK1											

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	1,2,3,4,6,7,8-HpCDF	37.00	5.716e4	5.616e4	1.02	NO	36.246	26.246
2	Total Hepta-Furans	37.39	8.042e2	7.382e2	1.05	NO	0.42254	0.42254
3	Total Hepta-Furans	37.59	5.632e4	5.488e4	1.02	NO	30.460	30.466
4	1,2,3,4,7,8,9-HpCDF	39.00	1.278e4	1.236e4	1.03	NO	7.2576	7.2576



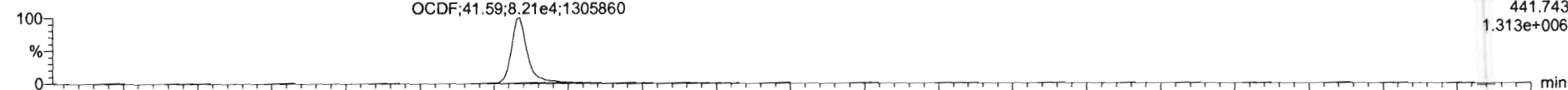
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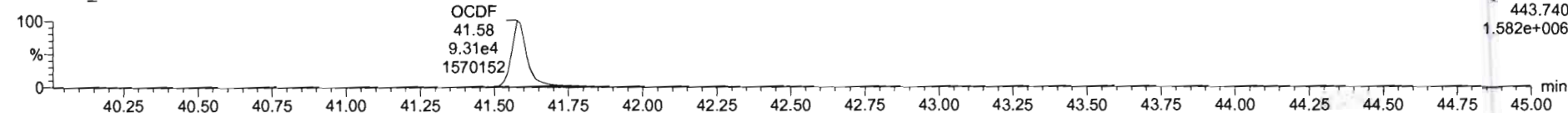
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**OCDF**

200518R2\_16

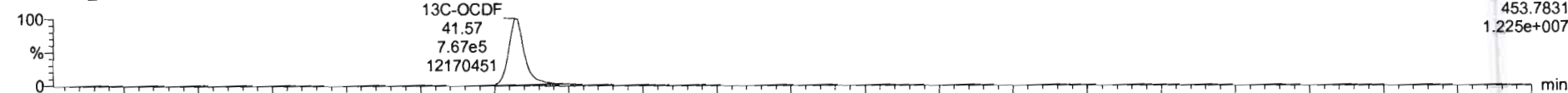


200518R2\_16

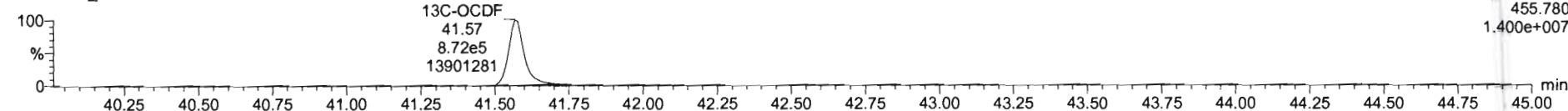


**13C-OCDF**

200518R2\_16

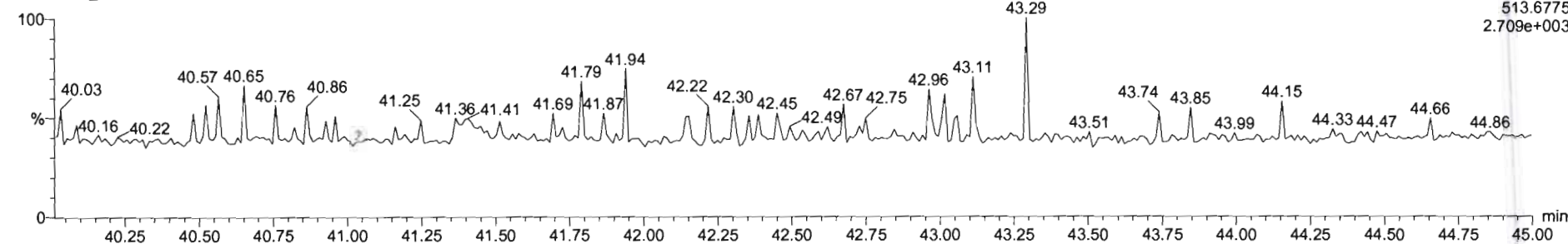


200518R2\_16



**DPE5**

200518R2\_16

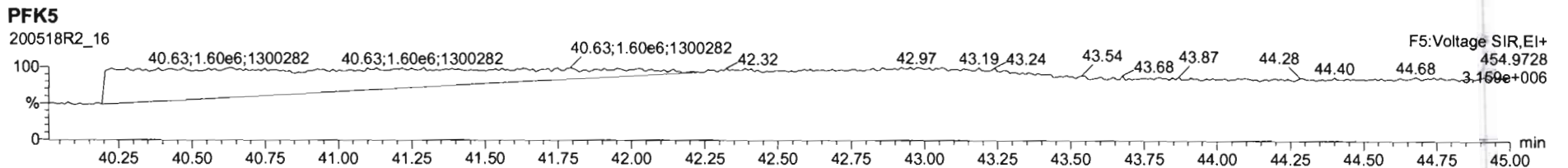
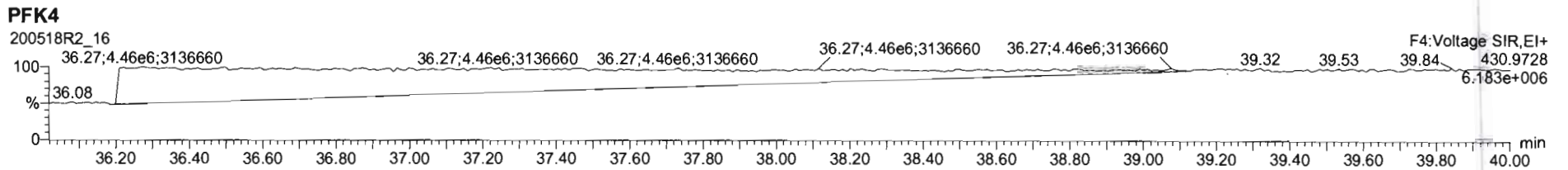
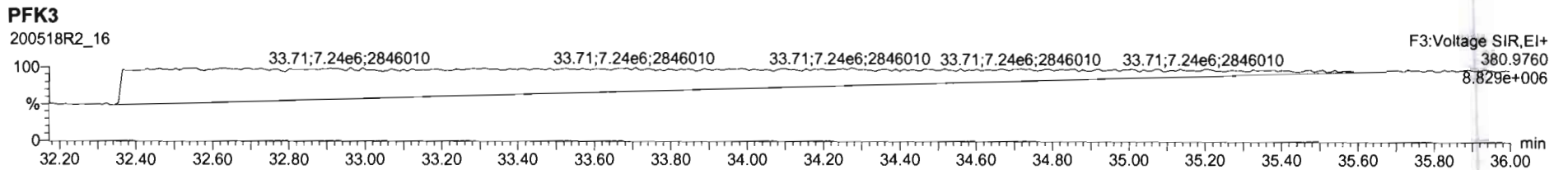
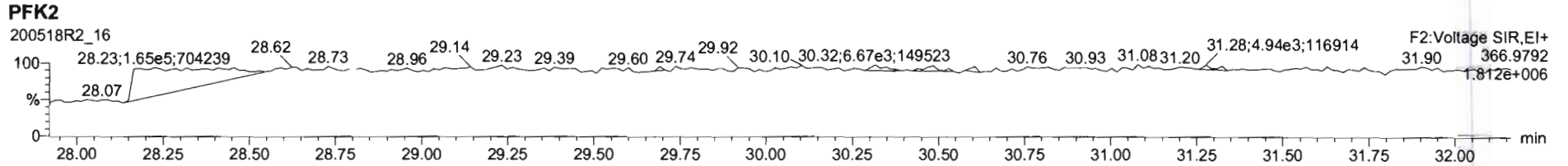
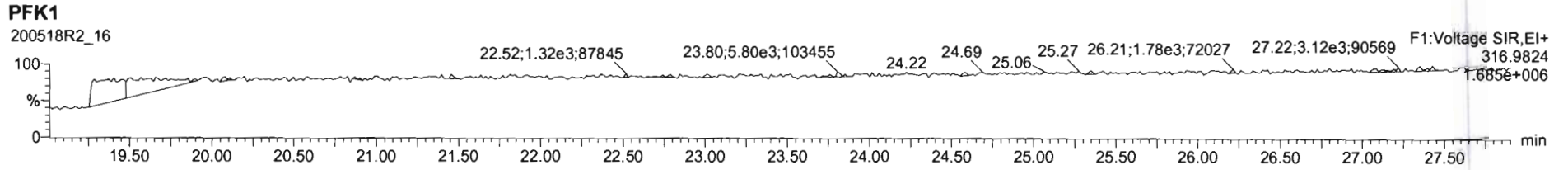


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Dataset: U:\VG12.PRO\Results\200506R2\200506R2-9.qld

Last Altered: Thursday, May 07, 2020 12:00:34 PM Pacific Daylight Time  
Printed: Thursday, May 07, 2020 12:01:00 PM Pacific Daylight Time

GRB 05/07/2020

LT 05/11/2020

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Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200506R2\_9, Date: 06-May-2020, Time: 19:47:23, ID: 2000951-04 PDI-159SC-A-02-03-200423 12.33, Description: PDI-159SC-A-02-03-200423

#	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	0.947	10.120	25.991		1.001				0.0485	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.120	31.101		1.001				0.0695	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.120	34.462		1.000				0.0755	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.120	34.559		1.000				0.0805	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.120	34.835		1.000				0.0944	
6	6 1,2,3,4,6,7,8-HpCDD	3.74e3	1.04	NO	0.898	10.120	38.329	38.35	1.000	1.001	2.0715		0.197	2.07
7	7 OCDD	2.48e4	0.89	NO	0.933	10.120	41.322	41.33	1.000	1.000	17.770		0.148	17.8
8	8 2,3,7,8-TCDF	6.48e2	0.78	NO	0.787	10.120	25.042	25.05	1.001	1.001	0.12229		0.0530	0.122
9	9 1,2,3,7,8-PeCDF	6.64e2	1.62	NO	0.910	10.120	29.788	29.78	1.001	1.001	0.12580		0.0418	0.126
10	10 2,3,4,7,8-PeCDF	1.26e2	0.97	YES	0.966	10.120	30.789	30.80	1.001	1.002	0.023405		0.0375	0.0189
11	11 1,2,3,4,7,8-HxCDF	8.09e2	1.54	YES	0.878	10.120	33.590	33.60	1.000	1.000	0.25408		0.0449	0.224
12	12 1,2,3,6,7,8-HxCDF	3.18e2	1.54	YES	0.874	10.120	33.727	33.71	1.000	1.000	0.084623		0.0429	0.0745
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.120	34.316		1.001				0.0455	
14	14 1,2,3,7,8,9-HxCDF			NO	0.864	10.120	35.166		1.000				0.0743	
15	15 1,2,3,4,6,7,8-HpCDF	7.74e2	1.01	NO	0.871	10.120	36.939	36.90	1.001	1.000	0.33119		0.0906	0.331
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.120	38.904		1.000				0.122	
17	17 OCDF	1.02e3	0.80	NO	0.802	10.120	41.503	41.51	1.000	1.000	0.74793		0.0682	0.748
18	18 13C-2,3,7,8-TCDD	1.03e6	0.79	NO	1.16	10.120	25.954	25.96	1.026	1.027	184.37	93.3	0.225	
19	19 13C-1,2,3,7,8-PeCDD	7.52e5	0.63	NO	0.847	10.120	31.031	31.08	1.227	1.229	184.78	93.5	0.284	
20	20 13C-1,2,3,4,7,8-HxCDD	5.51e5	1.28	NO	0.750	10.120	34.463	34.45	1.014	1.014	194.56	98.4	0.457	
21	21 13C-1,2,3,6,7,8-HxCDD	6.42e5	1.26	NO	0.963	10.120	34.575	34.56	1.017	1.017	176.45	89.3	0.356	
22	22 13C-1,2,3,7,8,9-HxCDD	5.66e5	1.26	NO	0.838	10.120	34.844	34.83	1.025	1.025	178.91	90.5	0.409	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.97e5	1.04	NO	0.641	10.120	38.331	38.32	1.128	1.128	163.89	82.9	0.450	
24	24 13C-OCDD	5.91e5	0.89	NO	0.586	10.120	41.321	41.32	1.216	1.216	266.68	67.5	0.344	
25	25 13C-2,3,7,8-TCDF	1.33e6	0.77	NO	1.03	10.120	25.015	25.02	0.989	0.989	179.90	91.0	0.350	
26	26 13C-1,2,3,7,8-PeCDF	1.15e6	1.59	NO	0.845	10.120	29.724	29.77	1.176	1.177	189.69	96.0	0.686	
27	27 13C-2,3,4,7,8-PeCDF	1.10e6	1.59	NO	0.814	10.120	30.712	30.76	1.215	1.216	189.15	95.7	0.712	
28	28 13C-1,2,3,4,7,8-HxCDF	7.16e5	0.51	NO	1.00	10.120	33.603	33.59	0.989	0.988	188.68	95.5	0.473	
29	29 13C-1,2,3,6,7,8-HxCDF	8.50e5	0.52	NO	1.14	10.120	33.726	33.72	0.992	0.992	197.88	100	0.418	
30	30 13C-2,3,4,6,7,8-HxCDF	7.16e5	0.50	NO	1.02	10.120	34.293	34.28	1.009	1.009	185.27	93.7	0.465	
31	31 13C-1,2,3,7,8,9-HxCDF	5.56e5	0.51	NO	0.845	10.120	35.184	35.17	1.035	1.035	174.21	88.2	0.563	

Dataset: U:\VG12.PRO\Results\200506R2\200506R2-9.qld

Last Altered: Thursday, May 07, 2020 12:00:34 PM Pacific Daylight Time

Printed: Thursday, May 07, 2020 12:01:00 PM Pacific Daylight Time

Name: 200506R2\_9, Date: 06-May-2020, Time: 19:47:23, ID: 2000951-04 PDI-159SC-A-02-03-200423 12.33, Description: PDI-159SC-A-02-03-200423

#	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	5.30e5	0.42	NO	0.771	10.120	36.913	36.90	1.086	1.086	182.00	92.1	0.607	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.93e5	0.42	NO	0.482	10.120	38.922	38.90	1.145	1.145	160.81	81.4	0.970	
34	34 13C-OCDF	6.70e5	0.88	NO	0.669	10.120	41.491	41.50	1.221	1.221	265.11	67.1	0.488	
35	35 37Cl-2,3,7,8-TCDD	3.95e5			1.10	10.120	25.984	25.99	1.028	1.028	74.755	94.6	0.0613	
36	36 13C-1,2,3,4-TCDD	9.50e5	0.79	NO	1.00	10.120	25.350	25.29	1.000	1.000	197.63	100	0.261	
37	37 13C-1,2,3,4-TCDF	1.41e6	0.79	NO	1.00	10.120	23.560	23.50	1.000	1.000	197.63	100	0.362	
38	38 13C-1,2,3,4,6,9-HxCDF	7.47e5	0.51	NO	1.00	10.120	34.000	33.98	1.000	1.000	197.63	100	0.476	
39	39 Total Tetra-Dioxins				0.947	10.120	24.620		0.000				0.0284	
40	40 Total Penta-Dioxins				0.942	10.120	29.960		0.000				0.0271	
41	41 Total Hexa-Dioxins				0.915	10.120	33.635		0.000		0.78658		0.0873	0.787
42	42 Total Hepta-Dioxins				0.898	10.120	37.640		0.000		4.9896		0.197	4.99
43	43 Total Tetra-Furans				0.787	10.120	23.610		0.000		0.12229		0.0530	0.122
44	44 1st Func. Penta-Furans				0.910	10.120	27.090		0.000		0.00000		0.00868	0.0524
45	45 Total Penta-Furans				0.910	10.120	29.275		0.000		0.12580		0.0408	0.185
46	46 Total Hexa-Furans				0.922	10.120	33.555		0.000		0.086725		0.0481	0.386
47	47 Total Hepta-Furans				0.871	10.120	37.835		0.000		0.76311		0.109	0.763



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Dataset: U:\VG12.PRO\Results\200506R2\200506R2-9.qld

Last Altered: Thursday, May 07, 2020 12:00:34 PM Pacific Daylight Time

Printed: Thursday, May 07, 2020 12:01:00 PM Pacific Daylight Time

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Calibration: U:\VG12.PRO\CurveDB\lb5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

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**Tetra-Dioxins**

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

**Penta-Dioxins**

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

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.99	1.345e4	1.461e4	7.467e2	6.629e2	1.13	NO	1.410e3	0.51934	0.51934	0.0873
2	Total Hexa-Dioxins	33.80	5.857e3	6.793e3	3.891e2	3.363e2	1.16	NO	7.253e2	0.26724	0.26724	0.0873

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.32	3.955e4	4.083e4	2.657e3	2.610e3	1.02	NO	5.267e3	2.9181	2.9181	0.197
2	1,2,3,4,6,7,8-HpCDD	38.35	2.387e4	2.784e4	1.909e3	1.830e3	1.04	NO	3.739e3	2.0715	2.0715	0.197

**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	25.05	4.409e3	4.043e3	2.838e2	3.645e2	0.78	NO	6.483e2	0.12229	0.12229	0.0530

**Penta-Furans function 1**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.17	2.450e3	2.522e3	1.650e2	1.371e2	1.20	YES	0.000e0	0.00000	0.052423	0.00868

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200506R2\200506R2-9.qld

Last Altered: Thursday, May 07, 2020 12:00:34 PM Pacific Daylight Time

Printed: Thursday, May 07, 2020 12:01:00 PM Pacific Daylight Time

Name: 200506R2\_9, Date: 06-May-2020, Time: 19:47:23, ID: 2000951-04 PDI-159SC-A-02-03-200423 12.33, Description: PDI-159SC-A-02-03-200423

**Penta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,7,8-PeCDF	29.78	8.970e3	4.864e3	4.103e2	2.540e2	1.62	NO	6.643e2	0.12580	0.12580	0.0418
2	Total Penta-Furans	30.76	5.245e3	2.608e3	1.827e2	8.259e1	2.21	YES	0.000e0	0.00000	0.040684	0.0408
3	2,3,4,7,8-PeCDF	30.80	2.144e3	3.190e3	6.191e1	6.414e1	0.97	YES	1.260e2	0.00000	0.018913	0.0375

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	33.15	3.189e3	3.302e3	1.608e2	1.262e2	1.27	NO	2.870e2	0.086725	0.086725	0.0481
2	1,2,3,4,7,8-HxCDF	33.60	9.611e3	6.044e3	4.900e2	3.189e2	1.54	YES	8.089e2	0.00000	0.22438	0.0449
3	1,2,3,6,7,8-HxCDF	33.71	3.347e3	3.474e3	1.930e2	1.251e2	1.54	YES	3.181e2	0.00000	0.074546	0.0429

**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	36.90	5.557e3	6.567e3	3.888e2	3.855e2	1.01	NO	7.743e2	0.33119	0.33119	0.0906
2	Total Hepta-Furans	37.52	6.231e3	6.618e3	3.811e2	4.029e2	0.95	NO	7.839e2	0.43193	0.43193	0.109

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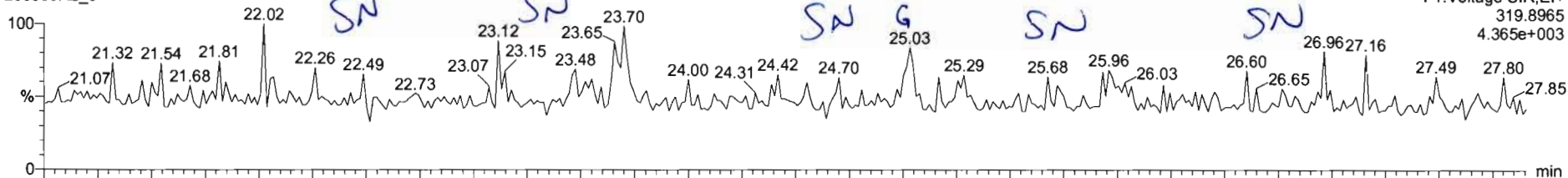
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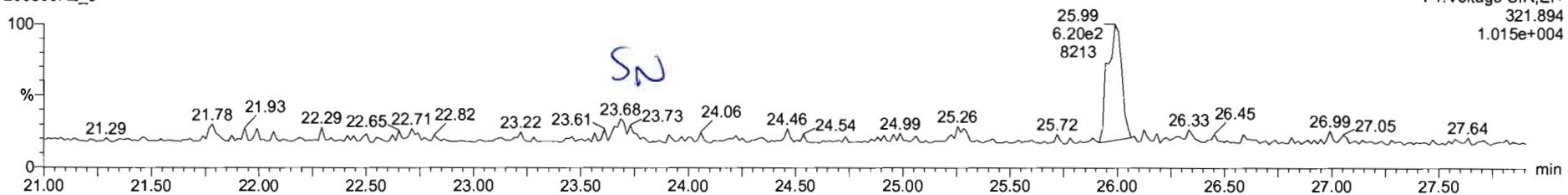
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2,3,7,8-TCDD

200506R2\_9

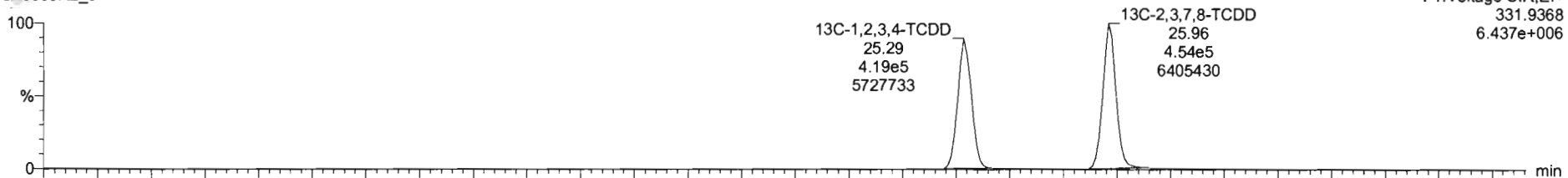


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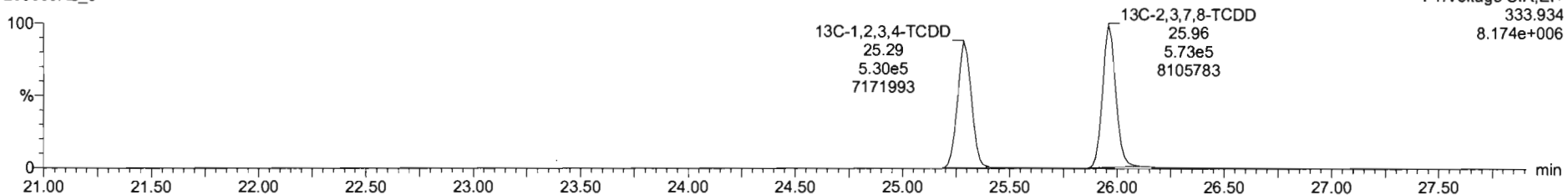


13C-2,3,7,8-TCDD

200506R2\_9



200506R2\_9



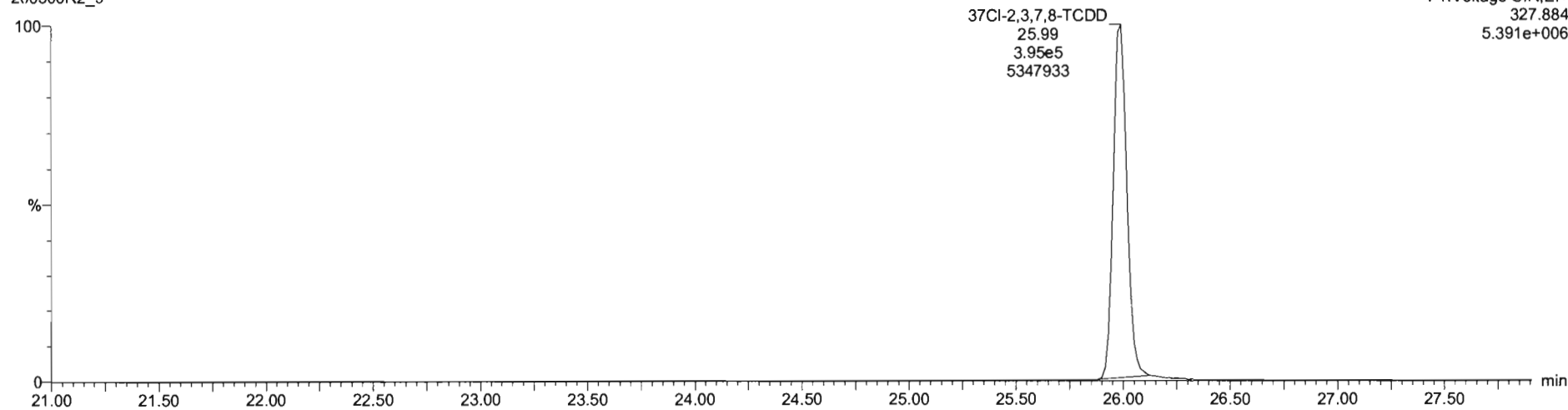
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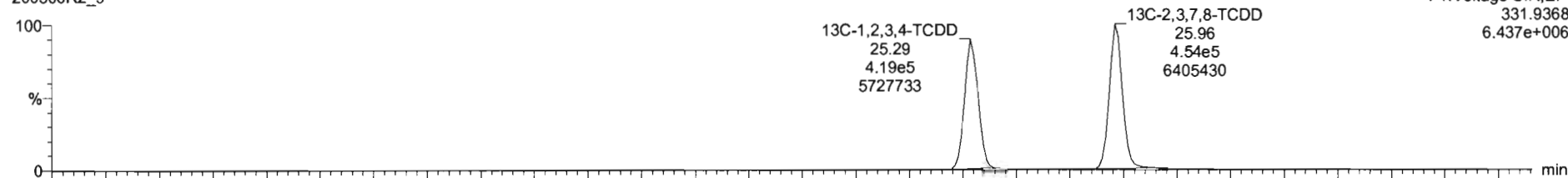
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200506R2\_9

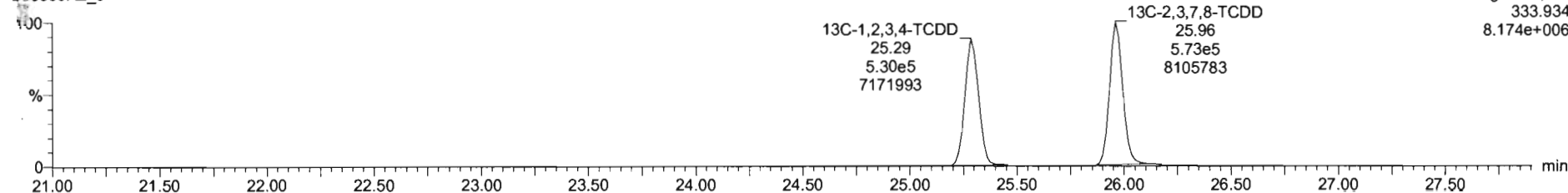


**13C-1,2,3,4-TCDD**

200506R2\_9



200506R2\_9



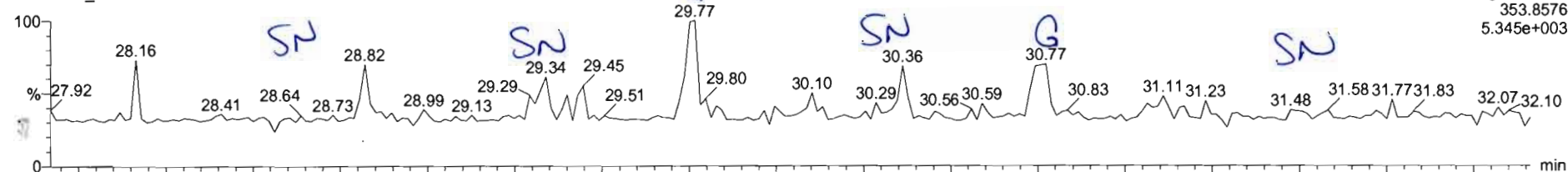
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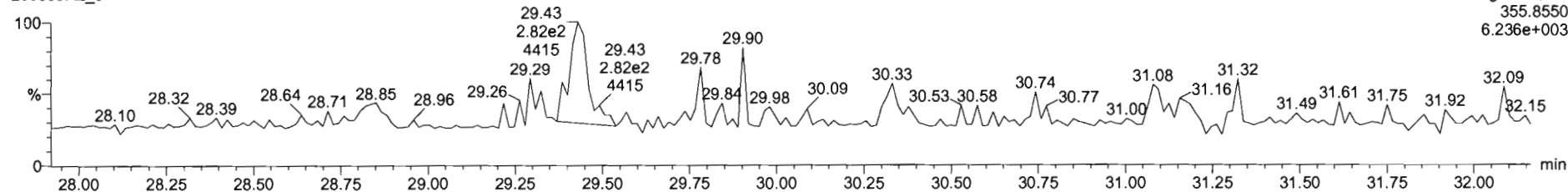
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**1,2,3,7,8-PeCDD**

200506R2\_9

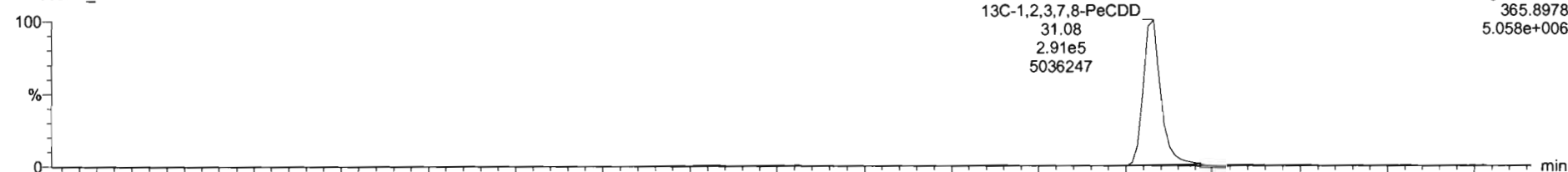


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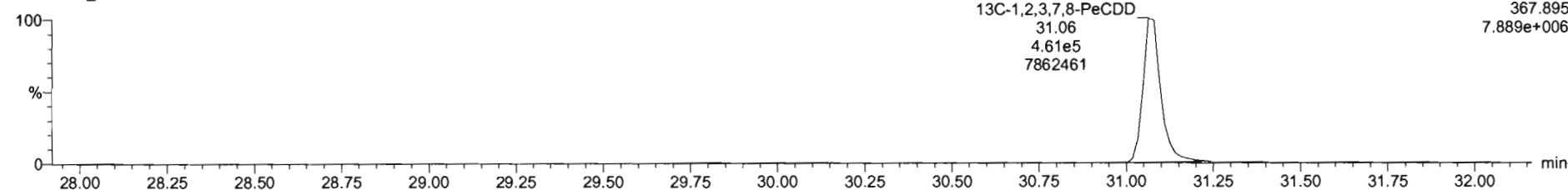


**13C-1,2,3,7,8-PeCDD**

200506R2\_9



200506R2\_9



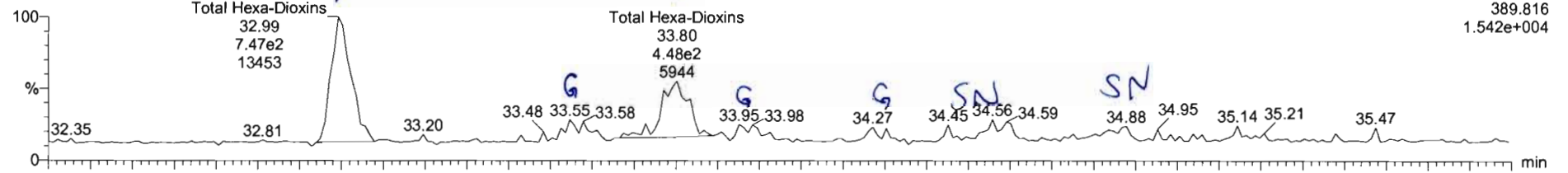
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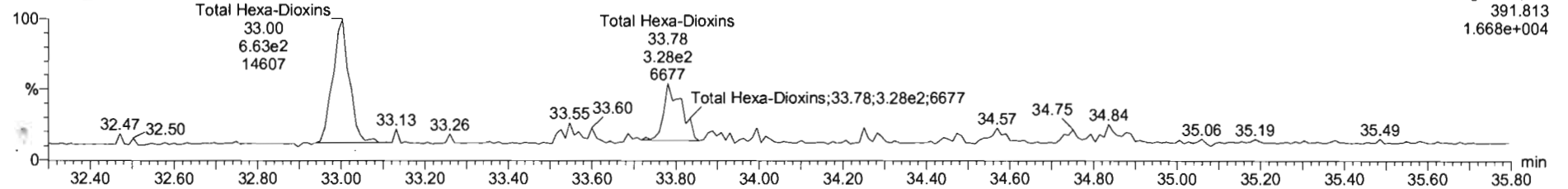
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1,2,3,4,7,8-HxCDD

200506R2\_9

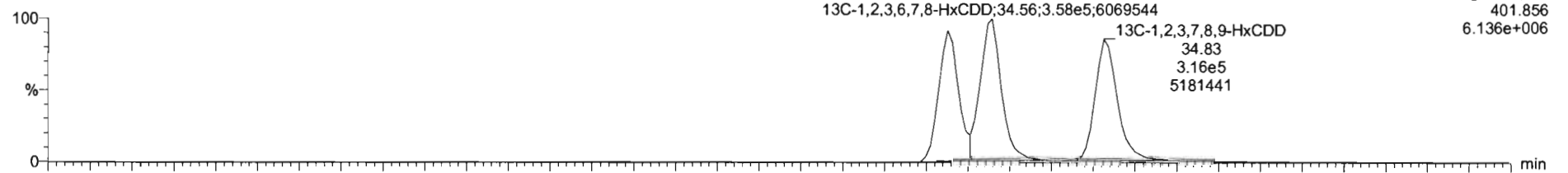


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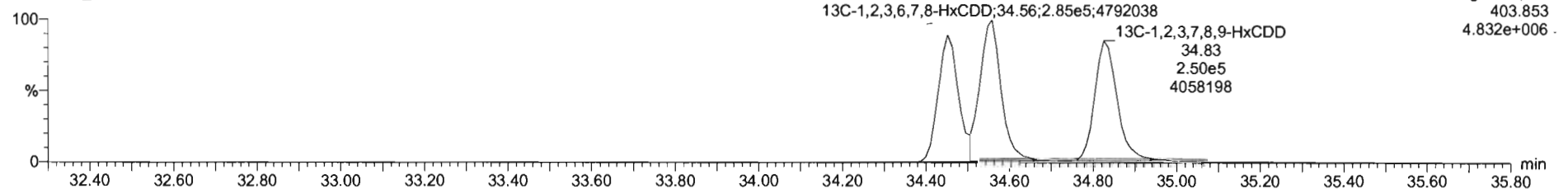


13C-1,2,3,4,7,8-HxCDD

200506R2\_9

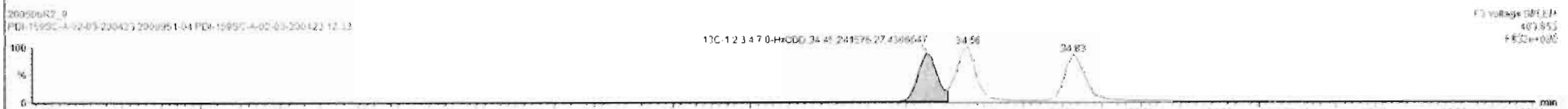
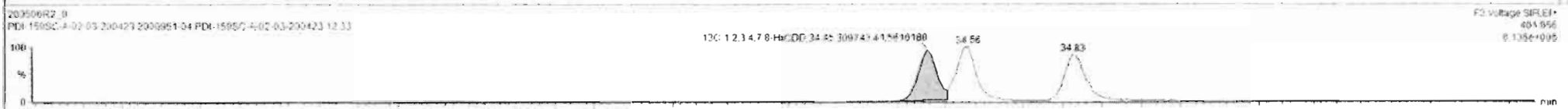
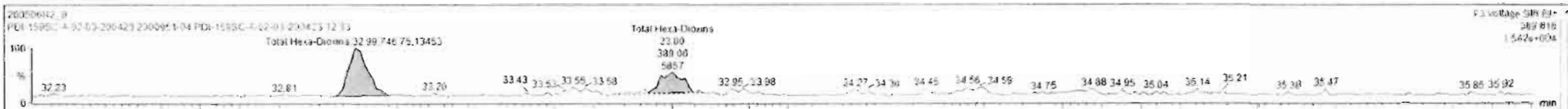


200506R2\_9



Name	Resp	RA	nly	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
41 Total Hexa-Chlorins				0.9145	10.126			0.787		0.0673	0.767
42 Total Hexa-Chlorins				0.8579	10.170			0.67		0.197	0.67

Name	RT	rt1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Hexa-Chlorins	33.90	3.801e2	3.563e2	1.18	NO	0.26724	0.26724
2 Total Hexa-Chlorins	32.99	7.467e2	6.629e2	1.13	NO	0.51924	0.51924



Dataset: Untitled

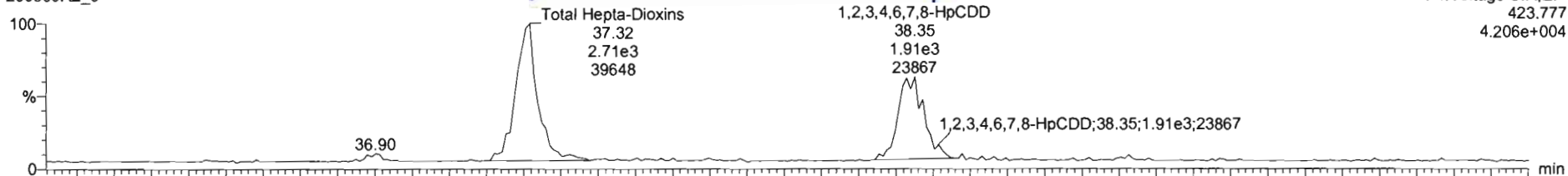
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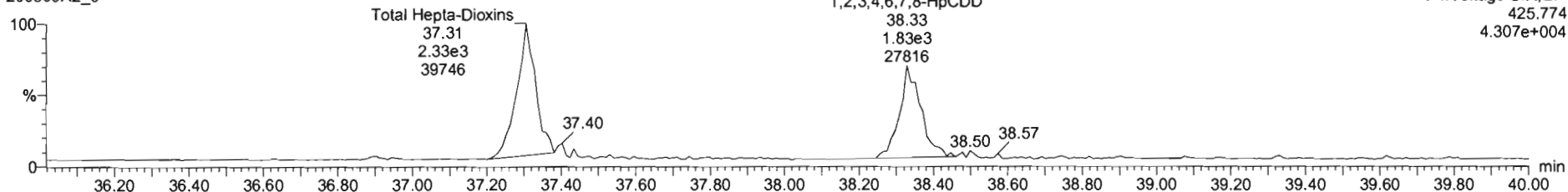
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**1,2,3,4,6,7,8-HpCDD**

200506R2\_9

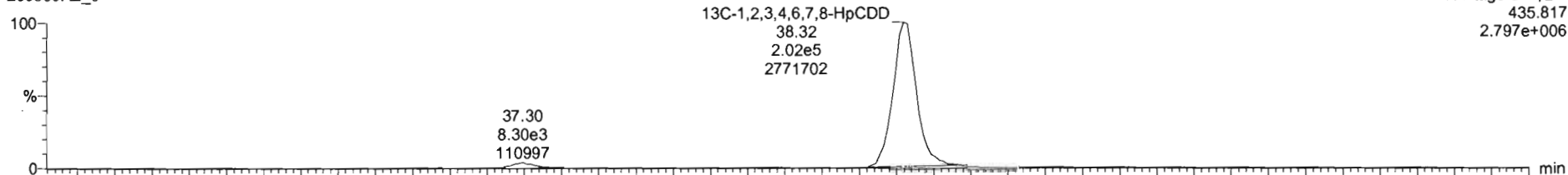


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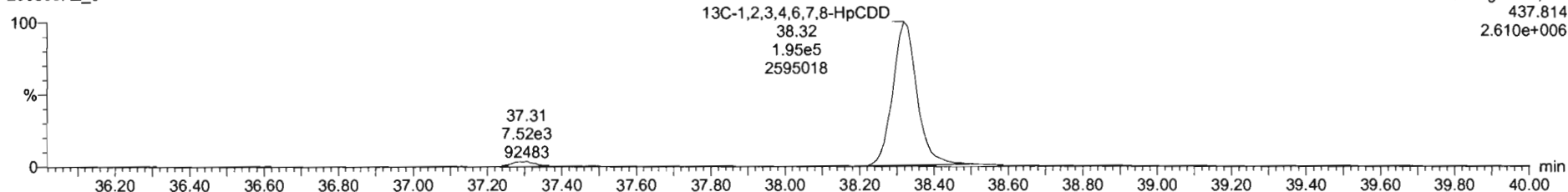


**13C-1,2,3,4,6,7,8-HpCDD**

200506R2\_9



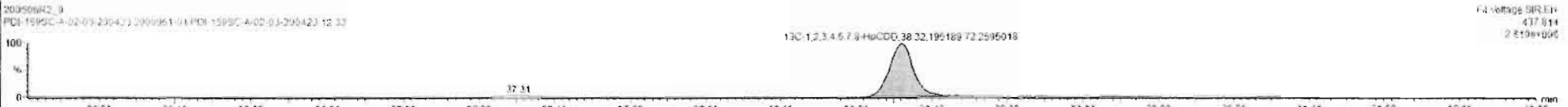
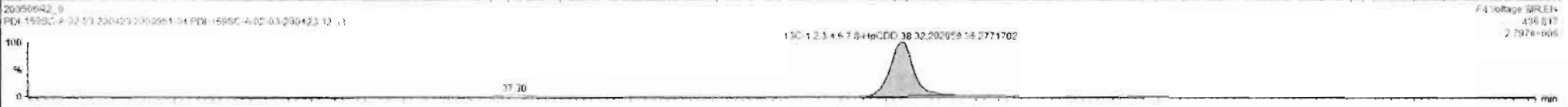
200506R2\_9





Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	WRec	DL	EMPC
41 Total Hexa-Chlores				0.9145	10.120			0.767		0.0873	0.717
42 Total Hepta-Chlores				0.8879	10.630			4.00		0.1071	4.00

Name	RT	wt Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDD	38.35	1.890e3	1.630e3	1.04	NO	2.0715	2.9715
2 Total Hepta-Chlores	37.32	2.657e3	2.610e3	1.02	NO	2.9181	2.9181



Dataset: Untitled

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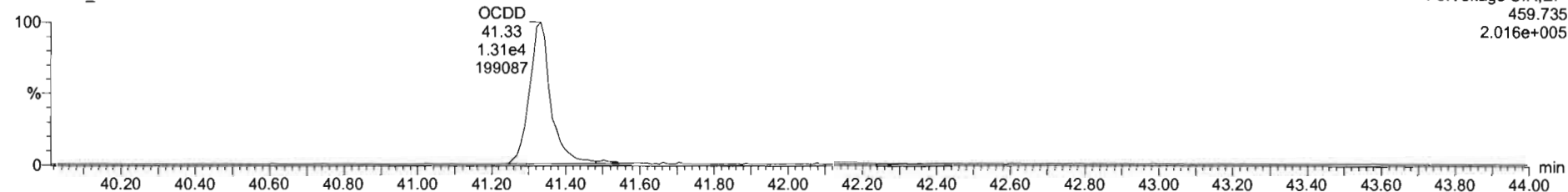
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**OCDD**

200506R2\_9

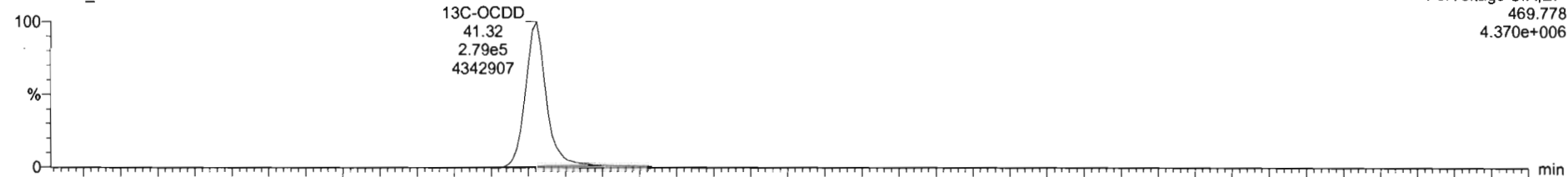


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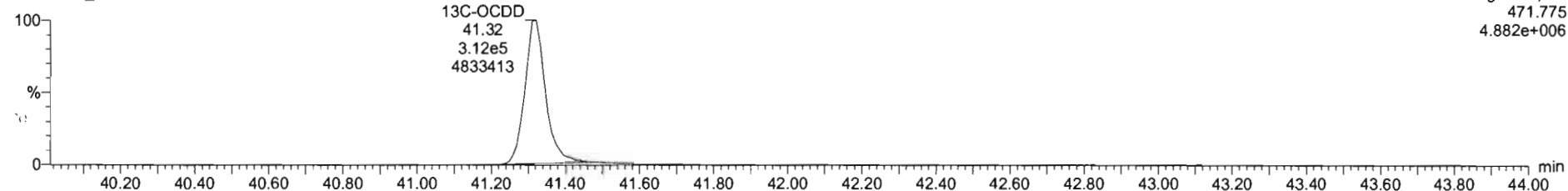


**13C-OCDD**

200506R2\_9



200506R2\_9



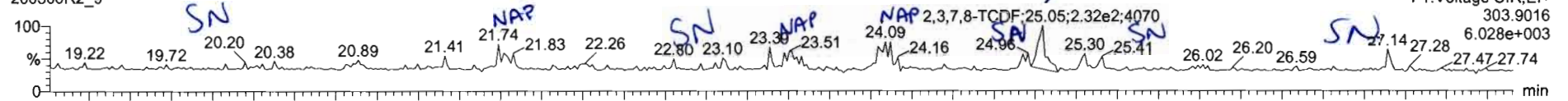
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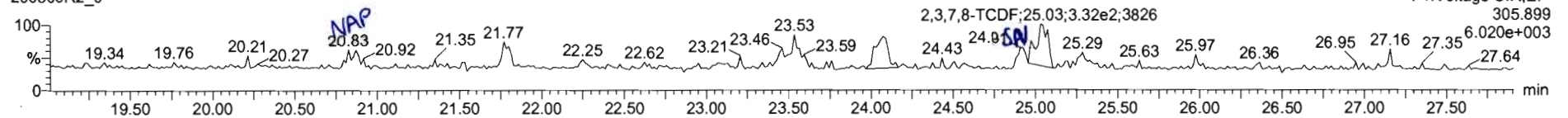
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**2,3,7,8-TCDF**

200506R2\_9

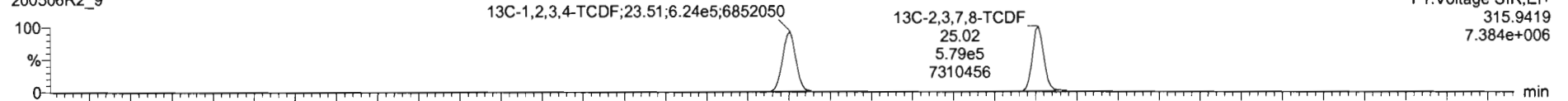


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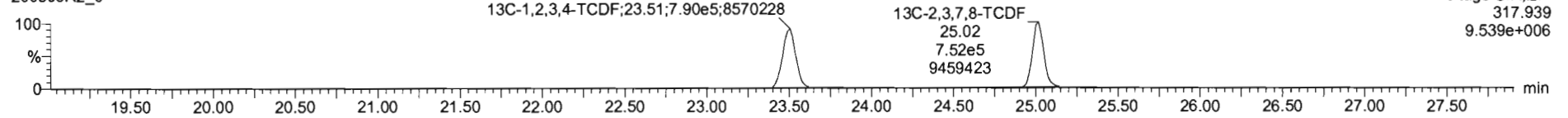


**13C-2,3,7,8-TCDF**

200506R2\_9

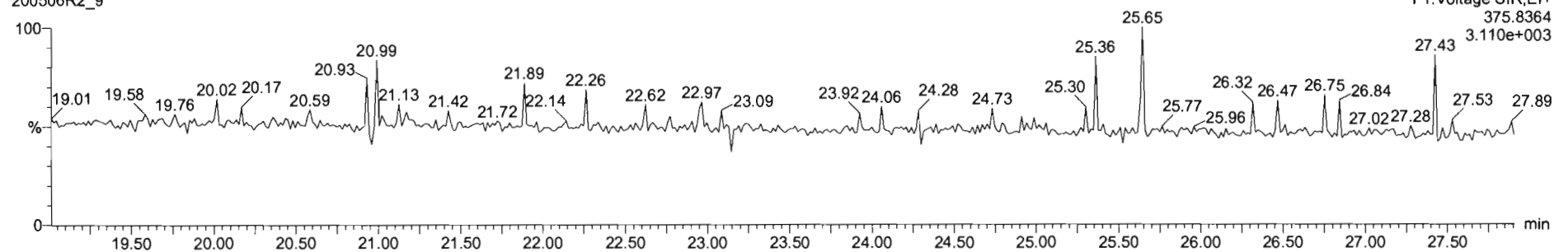


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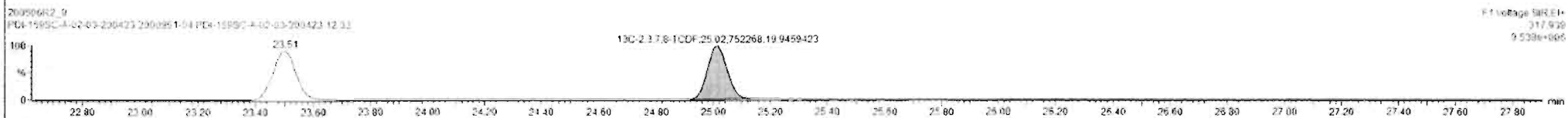
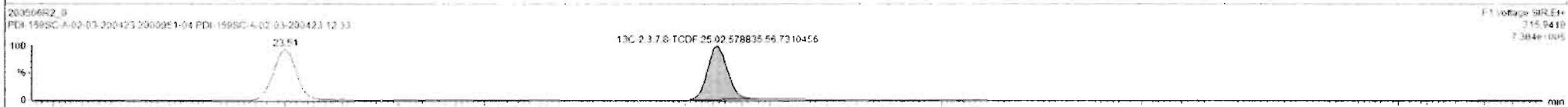
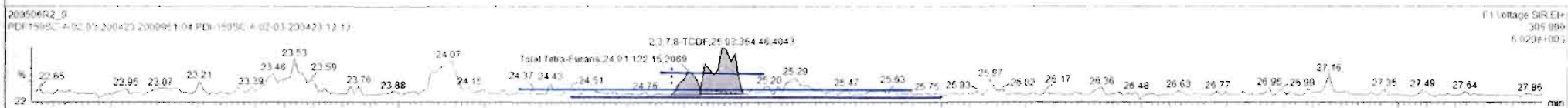
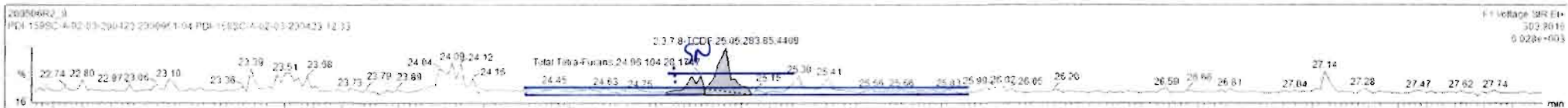
**DPE1**

200506R2\_9



Name	Resp	RA	n/y	RRF	uVol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7871	10.120			0.165		0.0530	0.165
44 1st Frac. Penta-Furans				0.9102	10.120					n/A	

Name	RT	mL Resp	mL Resp	RA	n/y	EMPC	Conc
1 2,3,7,8-TCDF	25.05	2.538e2	3.845e2	0.78	NO	0.12229	0.12229
2 Total Tetra-Furans	24.96	1.043e2	1.221e2	0.85	NO	0.042710	0.042710



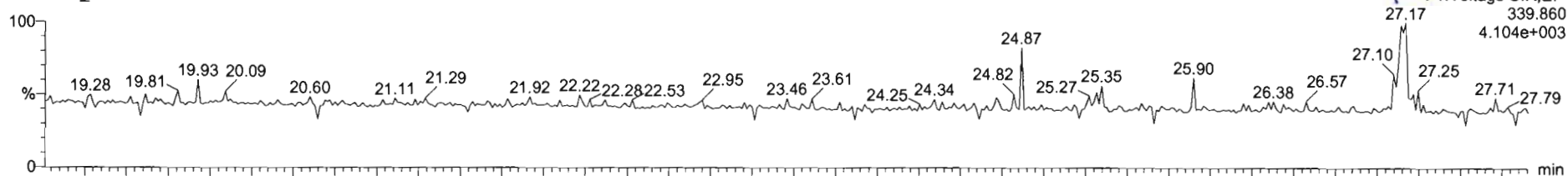
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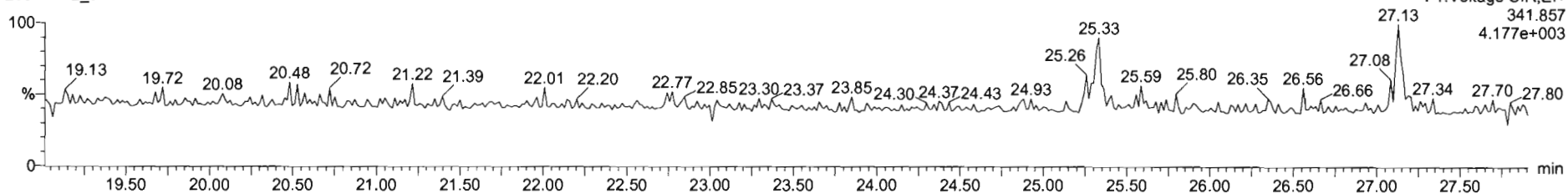
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1st Func. Penta-Furans

200506R2\_9

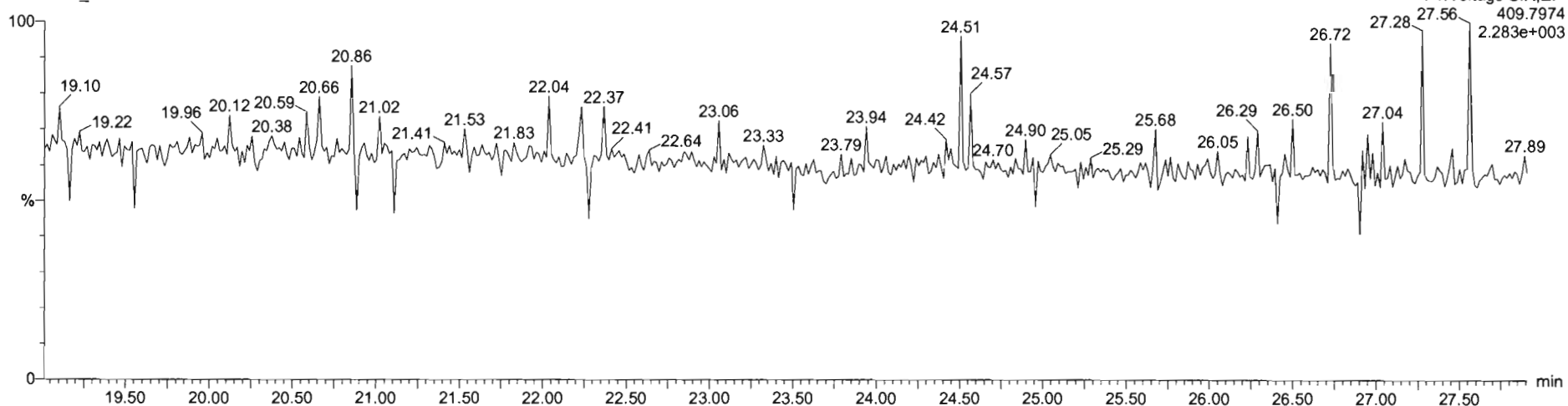


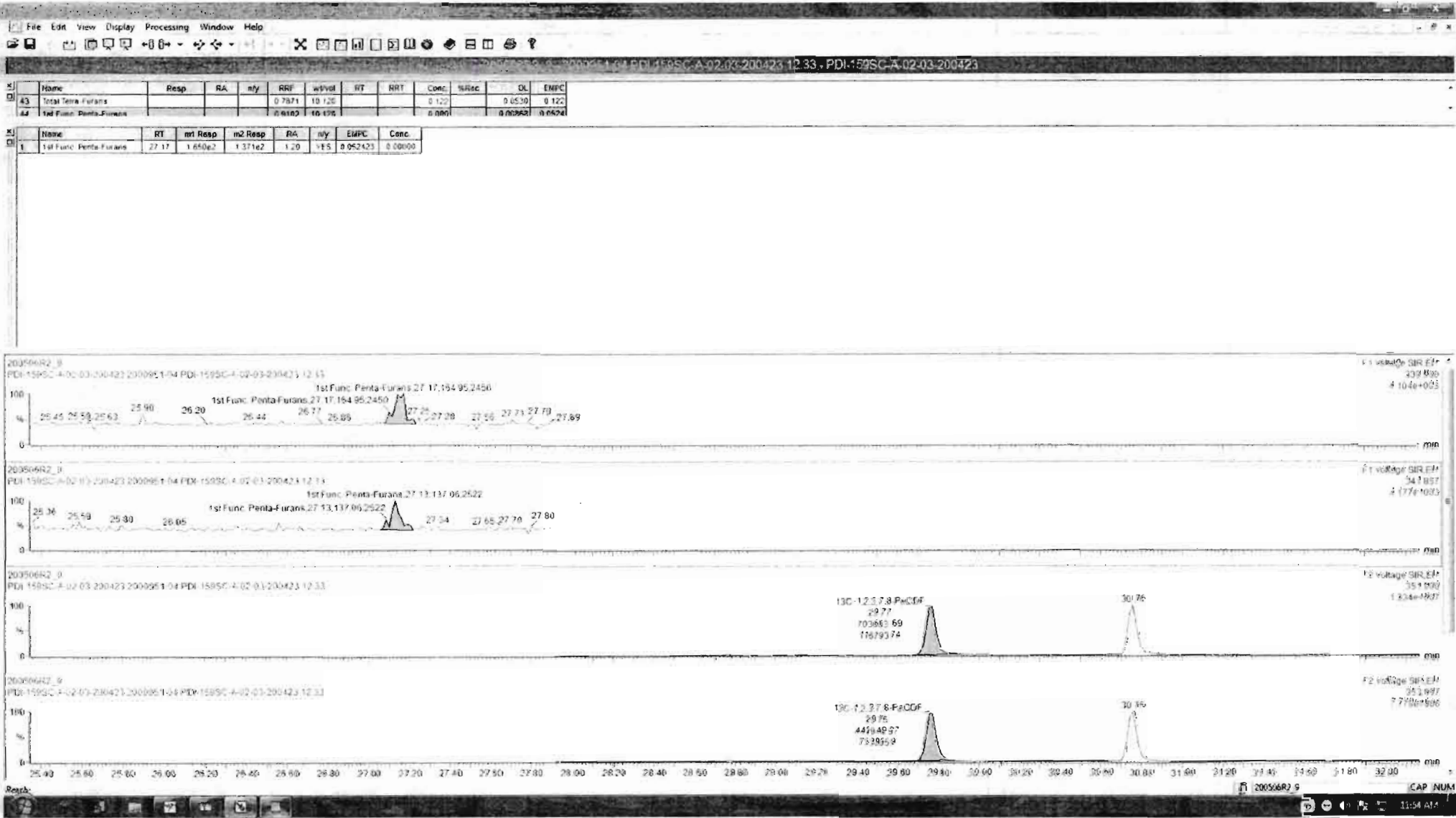
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DPE6

2:0506R2\_9



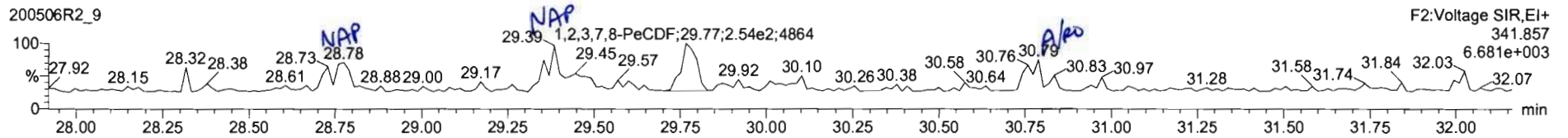
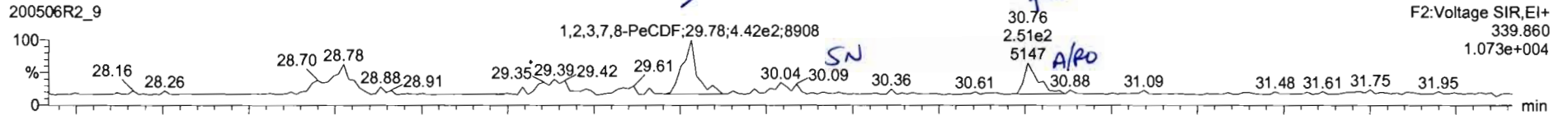


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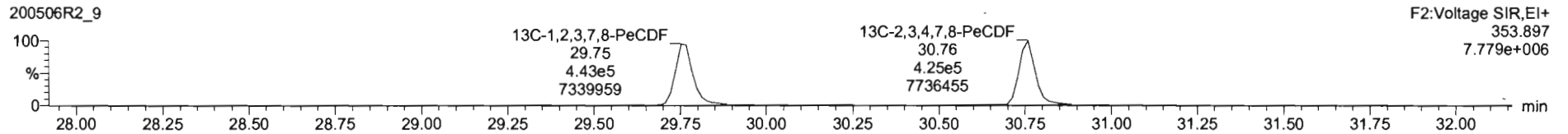
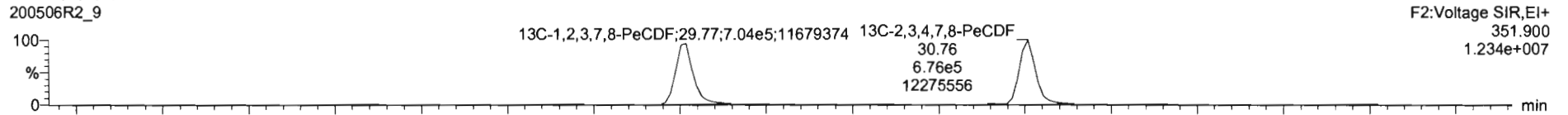
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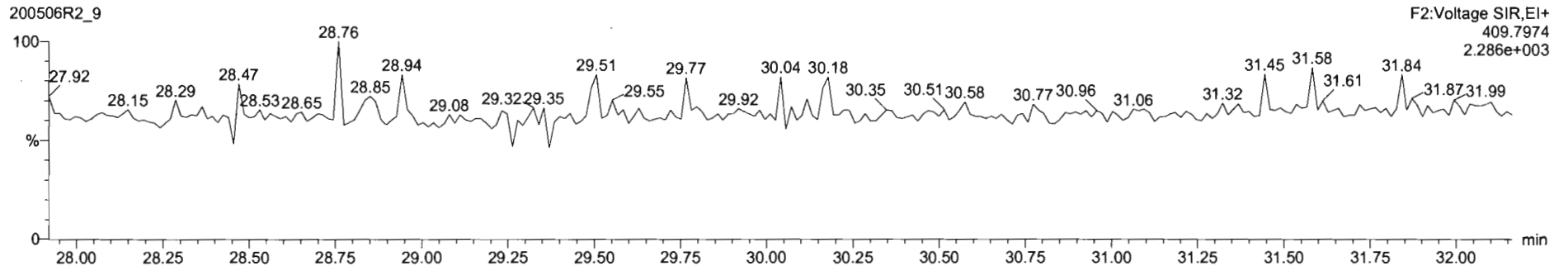
**1,2,3,7,8-PeCDF**



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

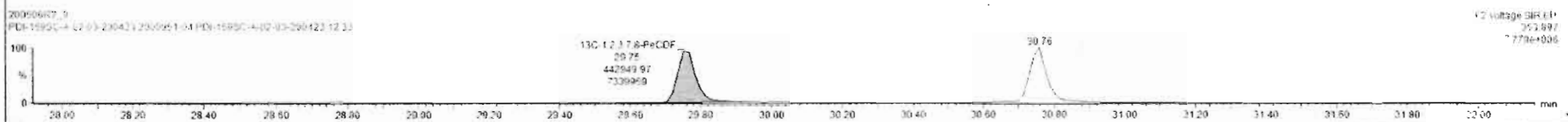
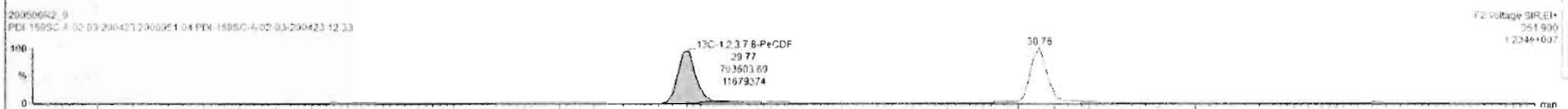
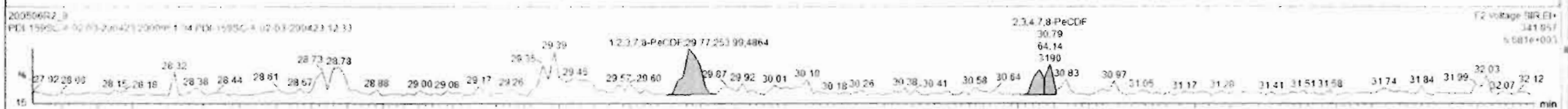
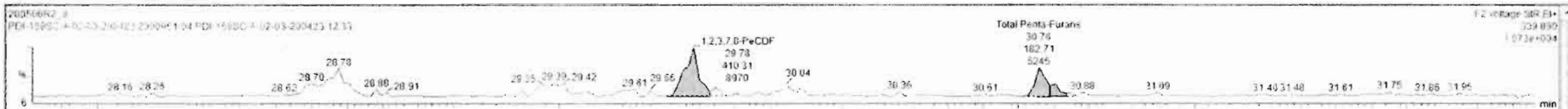


**DPE2**



#	Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
45	Total Penta-Furans				0.9102	10.120			0.126		0.0498	0.165
46	Total Hexa-Furans				0.8217	10.130			0.000		0.0294	0.214

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	1,2,3,7,8-PeCDF	29.78	4.101e2	2.540e2	1.62	NO	0.12560	0.12580
2	Total Penta-Furans	30.76	1.827e2	8.259e1	2.21	YES	0.040594	0.00000
3	2,3,4,7,8-PeCDF	30.80	6.191e1	6.414e1	0.97	YES	0.019913	0.00000





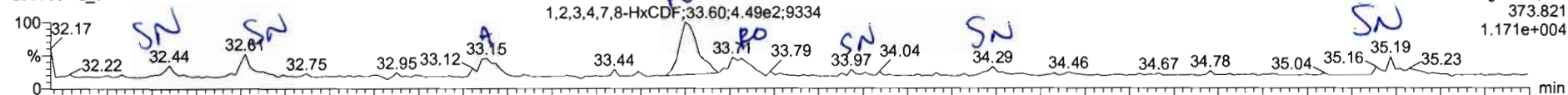
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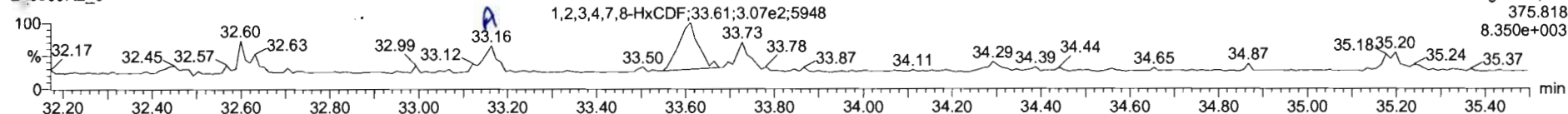
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1,2,3,4,7,8-HxCDF

200506R2\_9

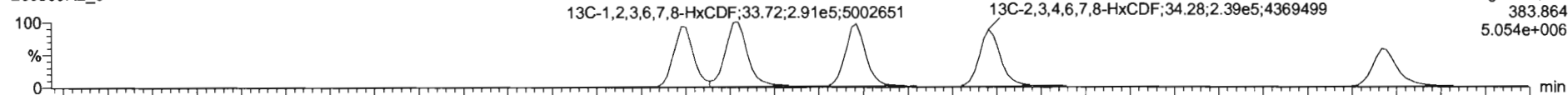


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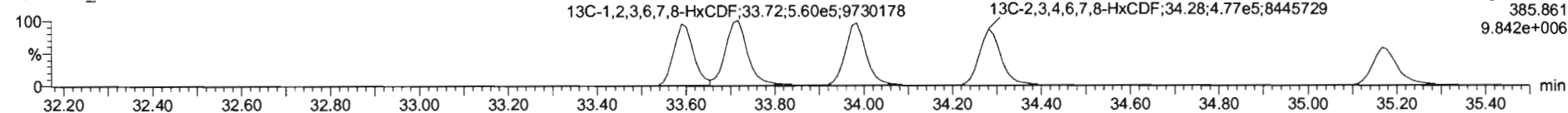


13C-1,2,3,4,7,8-HxCDF

200506R2\_9

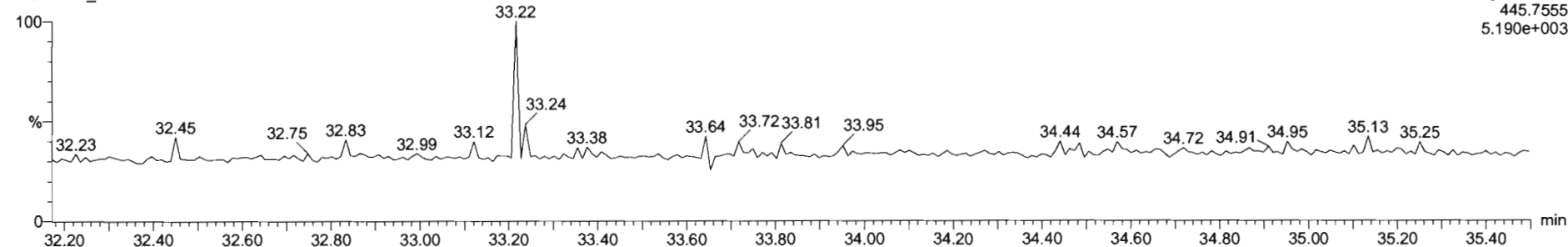


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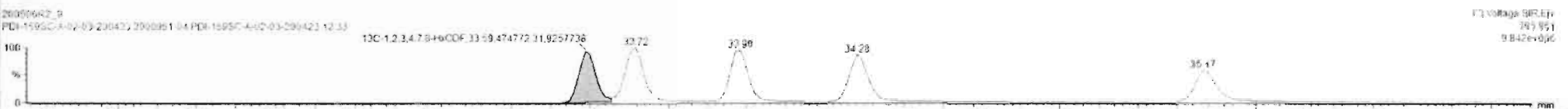
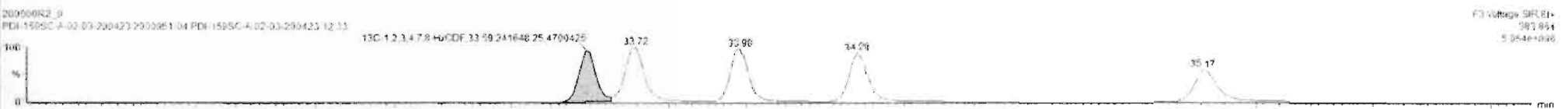
DPE3

200506R2\_9



Name	Resp	RA	nfy	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Hexa-Furans				0.9102	10.126			0.126	0.0406	0.102	
46 Total Hexa-Furans				0.8217	10.126			0.0971	0.0381	0.308	

Name	RT	m1 Resp	m2 Resp	RA	nfy	EMPC	Conc
1 Total Hexa-Furans	33.15	1.60e2	1.26e2	1.27	NO	0.086724	0.06725
2 1,2,3,4,7,8-HxCDF	33.60	4.50e2	3.10e2	1.54	YES	0.22458	0.00000
3 1,2,3,4,7,8-HxCDF	33.71	1.93e2	1.25e2	1.54	YES	0.074546	0.00000



Dataset: Untitled

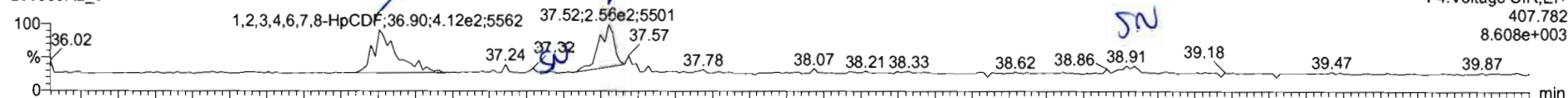
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Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

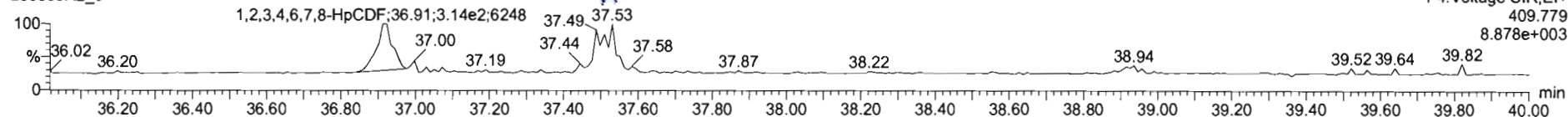
Name: 200506R2\_9, Date: 06-May-2020, Time: 19:47:23, ID: 2000951-04 PDI-159SC-A-02-03-200423 12.33, Description: PDI-159SC-A-02-03-200423

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

200506R2\_9

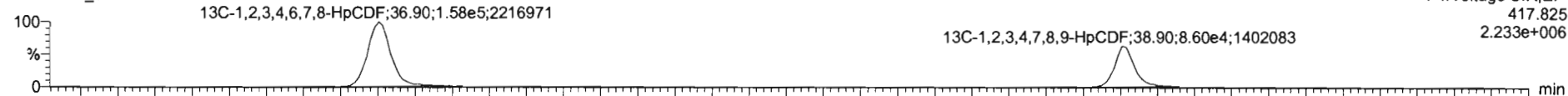


200506R2\_9

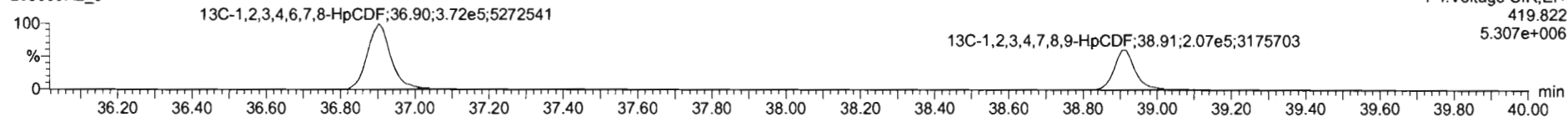


**13C-1,2,3,4,6,7,8-HpCDF**

200506R2\_9

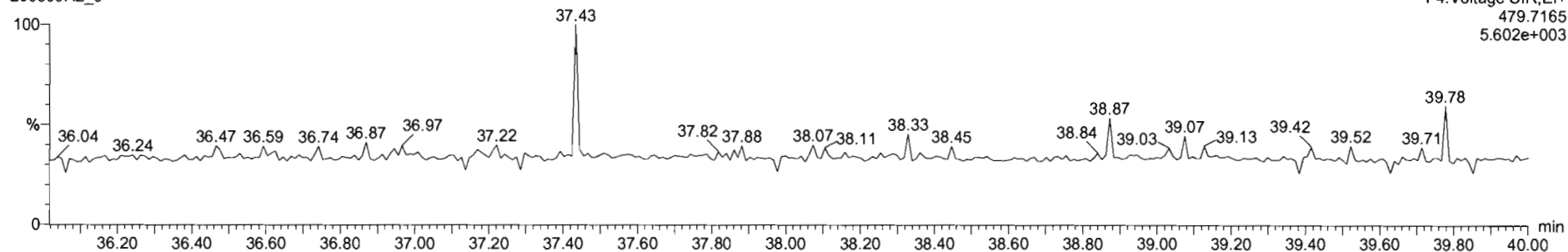


200506R2\_9



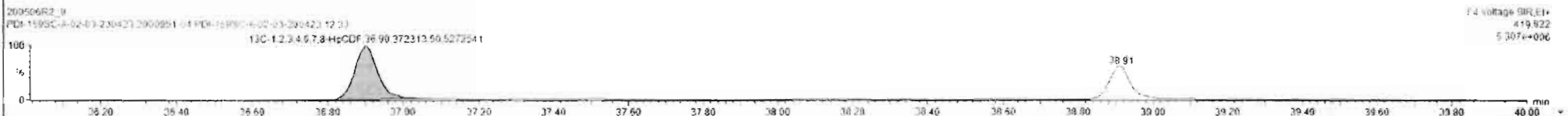
**DPE4**

200506R2\_9



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
47 Total Hepta-Furans				0.6712	10.120			0.763		0.109	0.783

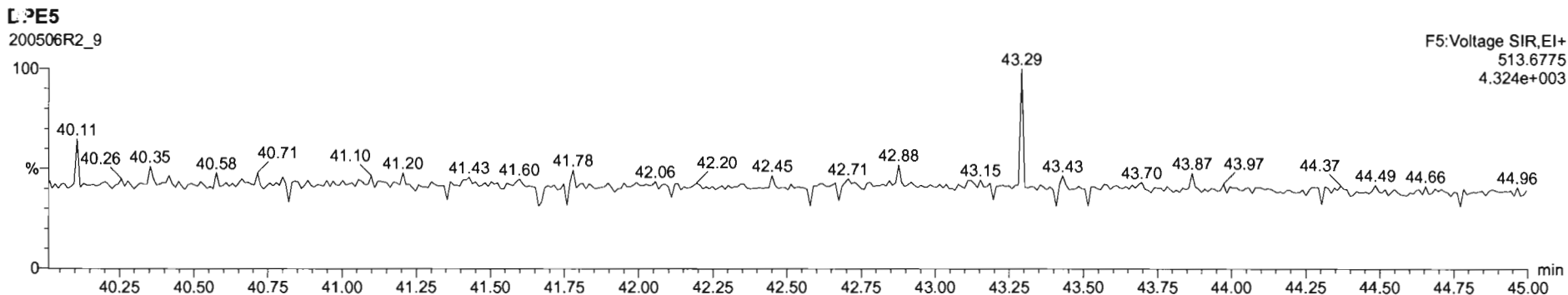
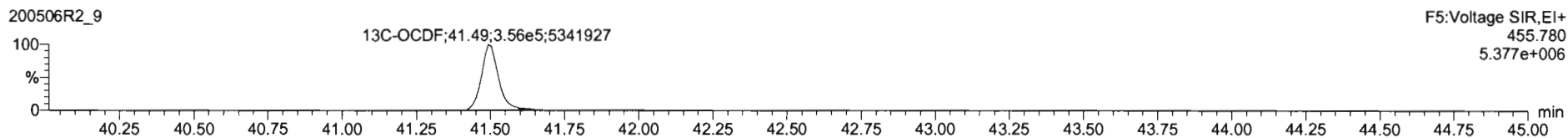
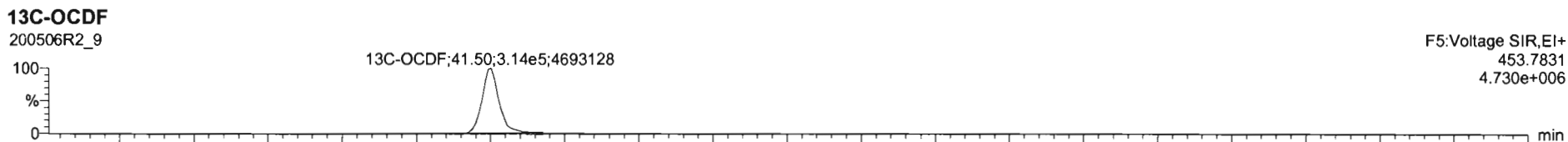
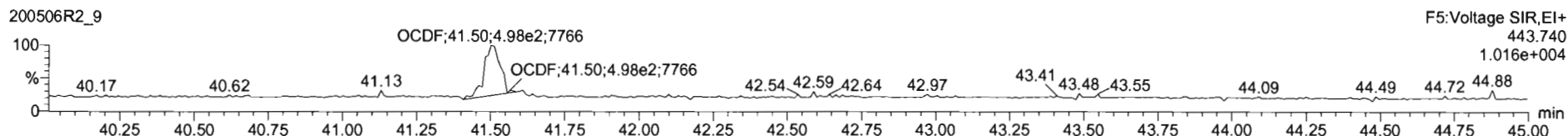
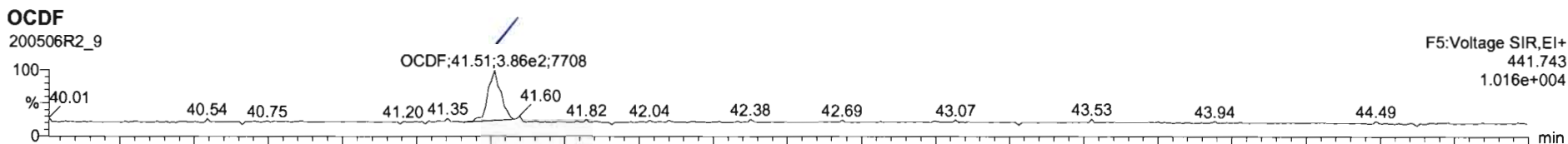
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	36.96	3.889e2	3.855e2	1.01	ND	0.32119	0.32119
2 Total Hepta-Furans	37.52	3.811e2	4.029e2	0.95	ND	0.43193	0.43193



Dataset: Untitled

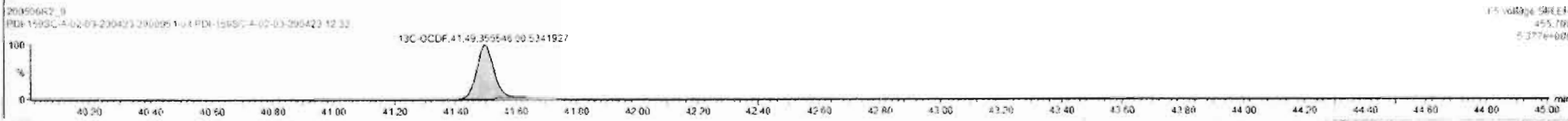
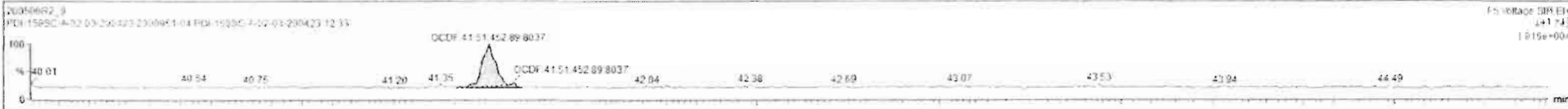
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Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

Name: 200506R2\_9, Date: 06-May-2020, Time: 19:47:23, ID: 2000951-04 PDI-159SC-A-02-03-200423 12.33, Description: PDI-159SC-A-02-03-200423



Name	Resp	RA	m/y	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
17	OCDF	1.02e3	0.80	NO	0.6521	10.120	41.51	1.000	0.740	0.0632	0.740
18	13C-OCDF	1.01e4	0.75	NO	1.1464	10.170	25.94	1.077	1.51	0.114	

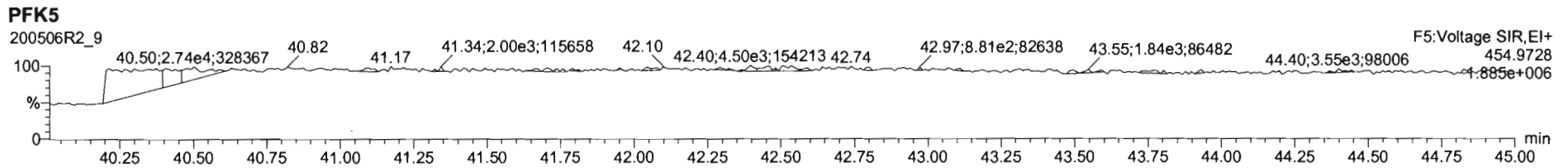
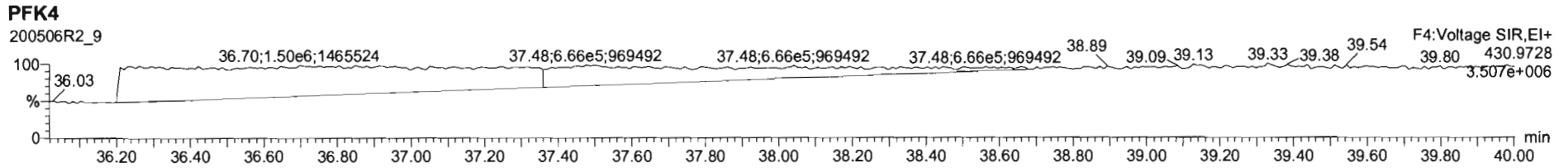
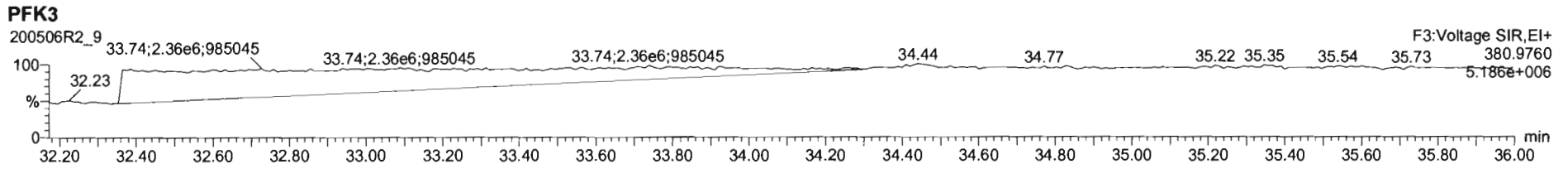
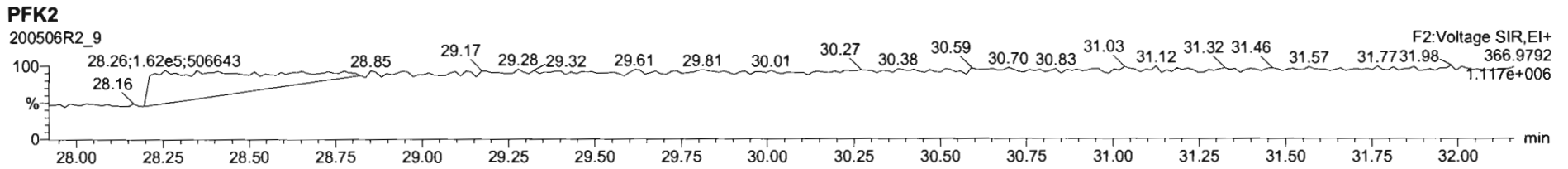
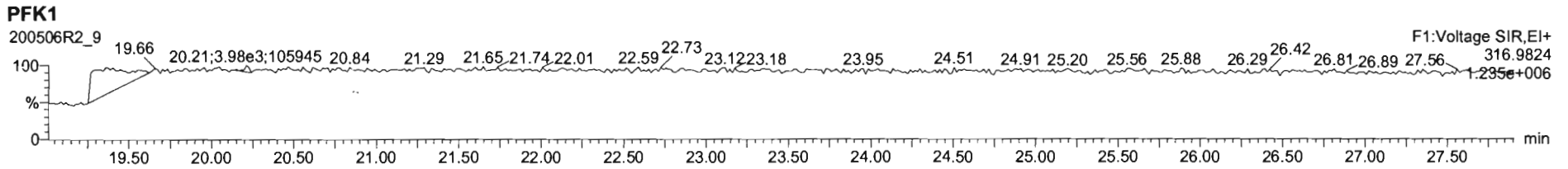
Name	RT	m1 Resp	m2 Resp	RA	m/y	EMPC	Conc.
1							



Dataset: Untitled

Last Altered: Thursday, May 07, 2020 7:18:10 AM Pacific Daylight Time  
Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

Name: 200506R2\_9, Date: 06-May-2020, Time: 19:47:23, ID: 2000951-04 PDI-159SC-A-02-03-200423 12.33, Description: PDI-159SC-A-02-03-200423



Dataset: U:\VG12.PRO\Results\200506R2\200506R2-10.qld

Last Altered: Thursday, May 07, 2020 8:45:39 AM Pacific Daylight Time

Printed: Thursday, May 07, 2020 8:47:15 AM Pacific Daylight Time

*GPB 05/07/2020*

*CT 05/11/2020*

Method: Untitled 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Sample ID: 200506R2\_10, Name: 200506R2\_10, Date: 06-May-2020, Time: 20:33:36, ID: 2000951-05RE2 PDI-159SC-A-03-04-200423 12.7, Description: PDI-159SC-A-03-04-200423

#	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	0.947	10.038	26.006		1.001				0.0729	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.038	31.101		1.001				0.0832	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.038	34.473		1.000				0.103	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.038	34.558		1.000				0.0973	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.038	34.845		1.000				0.106	
6	6 1,2,3,4,6,7,8-HpCDD	1.70e3	1.14	NO	0.898	10.038	38.340	38.34	1.000	1.000	0.97481		0.112	0.975
7	7 OCDD	1.08e4	0.87	NO	0.933	10.038	41.321	41.32	1.000	1.000	7.6798		0.149	7.68
8	8 2,3,7,8-TCDF			NO	0.787	10.038	25.057		1.001				0.0518	
9	9 1,2,3,7,8-PeCDF			NO	0.910	10.038	29.788		1.001				0.0335	
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.038	30.805		1.001				0.0312	
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	10.038	33.600		1.000				0.0525	
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.038	33.727		1.000				0.0482	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.038	34.326		1.001				0.0522	
14	14 1,2,3,7,8,9-HxCDF			NO	0.864	10.038	35.176		1.000				0.0864	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.871	10.038	36.960		1.001				0.0502	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.038	38.925		1.000				0.0704	
17	17 OCDF			NO	0.802	10.038	41.503		1.000				0.0713	
18	18 13C-2,3,7,8-TCDD	7.33e5	0.81	NO	1.16	10.038	25.969	25.98	1.026	1.027	131.36	65.9	0.164	
19	19 13C-1,2,3,7,8-PeCDD	6.29e5	0.64	NO	0.847	10.038	31.049	31.08	1.227	1.228	154.21	77.4	0.266	
20	20 13C-1,2,3,4,7,8-HxCDD	4.55e5	1.36	NO	0.750	10.038	34.473	34.46	1.014	1.014	155.05	77.8	0.565	
21	21 13C-1,2,3,6,7,8-HxCDD	5.92e5	1.22	NO	0.963	10.038	34.585	34.56	1.017	1.017	156.90	78.8	0.440	
22	22 13C-1,2,3,7,8,9-HxCDD	5.53e5	1.26	NO	0.838	10.038	34.854	34.83	1.025	1.025	168.54	84.6	0.506	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.87e5	1.03	NO	0.641	10.038	38.342	38.33	1.128	1.128	154.02	77.3	0.444	
24	24 13C-OCDD	5.99e5	0.88	NO	0.586	10.038	41.333	41.32	1.216	1.216	260.80	65.5	0.369	
25	25 13C-2,3,7,8-TCDF	8.91e5	0.81	NO	1.03	10.038	25.030	25.03	0.989	0.989	115.00	57.7	0.334	
26	26 13C-1,2,3,7,8-PeCDF	9.22e5	1.59	NO	0.845	10.038	29.741	29.77	1.176	1.177	145.80	73.2	0.533	
27	27 13C-2,3,4,7,8-PeCDF	8.74e5	1.59	NO	0.814	10.038	30.731	30.77	1.215	1.216	143.37	72.0	0.554	
28	28 13C-1,2,3,4,7,8-HxCDF	6.43e5	0.51	NO	1.00	10.038	33.613	33.60	0.989	0.988	163.28	82.0	0.547	
29	29 13C-1,2,3,6,7,8-HxCDF	7.75e5	0.51	NO	1.14	10.038	33.736	33.72	0.992	0.992	174.04	87.4	0.483	
30	30 13C-2,3,4,6,7,8-HxCDF	6.68e5	0.51	NO	1.02	10.038	34.303	34.29	1.009	1.009	166.94	83.8	0.537	
31	31 13C-1,2,3,7,8,9-HxCDF	5.20e5	0.51	NO	0.845	10.038	35.194	35.18	1.035	1.035	157.18	78.9	0.650	



Dataset: U:\VG12.PRO\Results\200506R2\200506R2-10.qld

Last Altered: Thursday, May 07, 2020 8:45:39 AM Pacific Daylight Time

Printed: Thursday, May 07, 2020 8:47:15 AM Pacific Daylight Time

Name: 200506R2\_10, Date: 06-May-2020, Time: 20:33:36, ID: 2000951-05RE2 PDI-159SC-A-03-04-200423 12.7, Description: PDI-159SC-A-03-04-200423

#	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	5.05e5	0.43	NO	0.771	10.038	36.924	36.92	1.086	1.086	167.12	83.9	0.517	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.74e5	0.42	NO	0.482	10.038	38.933	38.92	1.145	1.145	144.94	72.7	0.826	
34	34 13C-OCDF	6.47e5	0.87	NO	0.669	10.038	41.503	41.50	1.221	1.221	247.03	62.0	0.406	
35	35 37Cl-2,3,7,8-TCDD	2.76e5			1.10	10.038	25.999	26.00	1.028	1.028	52.295	65.6	0.0513	
36	36 13C-1,2,3,4-TCDD	9.59e5	0.79	NO	1.00	10.038	25.350	25.30	1.000	1.000	199.23	100	0.190	
37	37 13C-1,2,3,4-TCDF	1.49e6	0.79	NO	1.00	10.038	23.560	23.52	1.000	1.000	199.23	100	0.345	
38	38 13C-1,2,3,4,6,9-HxCDF	7.80e5	0.52	NO	1.00	10.038	34.000	33.99	1.000	1.000	199.23	100	0.549	
39	39 Total Tetra-Dioxins				0.947	10.038	24.620		0.000		0.22784		0.0729	0.228
40	40 Total Penta-Dioxins				0.942	10.038	29.960		0.000				0.0402	
41	41 Total Hexa-Dioxins				0.915	10.038	33.635		0.000		1.0008		0.107	1.00
42	42 Total Hepta-Dioxins				0.898	10.038	37.640		0.000		2.7686		0.112	2.77
43	43 Total Tetra-Furans				0.787	10.038	23.610		0.000				0.0214	
44	44 1st Func. Penta-Furans				0.910	10.038	27.090		0.000				0.00866	
45	45 Total Penta-Furans				0.910	10.038	29.275		0.000				0.0162	
46	46 Total Hexa-Furans				0.922	10.038	33.555		0.000				0.0390	
47	47 Total Hepta-Furans				0.871	10.038	37.835		0.000				0.0249	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200506R2\200506R2-10.qld

Last Altered: Thursday, May 07, 2020 8:45:39 AM Pacific Daylight Time

Printed: Thursday, May 07, 2020 8:47:15 AM Pacific Daylight Time

Method: Untitled 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200506R2\_10, Date: 06-May-2020, Time: 20:33:36, ID: 2000951-05RE2 PDI-159SC-A-03-04-200423 12.7, Description: PDI-159SC-A-03-04-200423

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.74	3.706e3	5.970e3	3.432e2	4.508e2	0.76	NO	7.940e2	0.22784	0.22784	0.0729

**Penta-Dioxins**

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

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.00	1.974e4	1.519e4	9.114e2	8.205e2	1.11	NO	1.732e3	0.70755	0.70755	0.107
2	Total Hexa-Dioxins	33.80	5.448e3	8.270e3	3.757e2	3.422e2	1.10	NO	7.179e2	0.29327	0.29327	0.107

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.33	2.576e4	1.809e4	1.634e3	1.494e3	1.09	NO	3.128e3	1.7938	1.7938	0.112
2	1,2,3,4,6,7,8-HpCDD	38.34	1.349e4	9.665e3	9.044e2	7.953e2	1.14	NO	1.700e3	0.97481	0.97481	0.112

**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												

Dataset: U:\VG12.PRO\Results\200506R2\200506R2-10.qld

Last Altered: Thursday, May 07, 2020 8:45:39 AM Pacific Daylight Time

Printed: Thursday, May 07, 2020 8:47:15 AM Pacific Daylight Time

LAST PRINTED: THURSDAY  
MAY 07 2020 8:47:15 AM

METHOD: METHOD01.M

REPORT: REPORT01.R

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Sample Name: 200506R2\_10; Date: 06-May-2020; Time: 08:33:08; ID: 2000951-05RE2-PDI-159SC-A-03-04-200423 12.7, Description: PDI-159SC-A-03-04-200423

**Penta-Furans**

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

**Hexa-Furans**

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

**Hepta-Furans**

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

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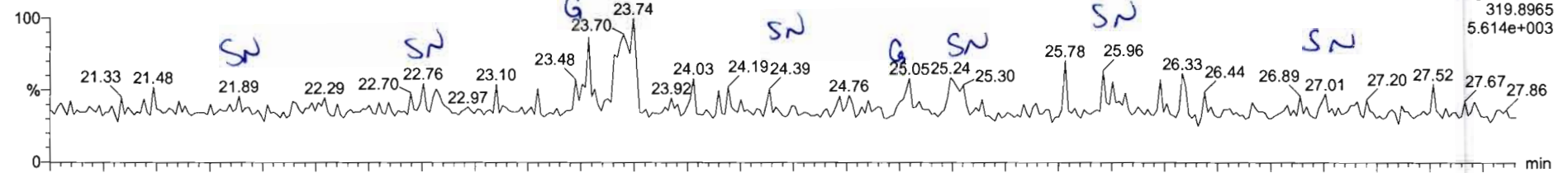
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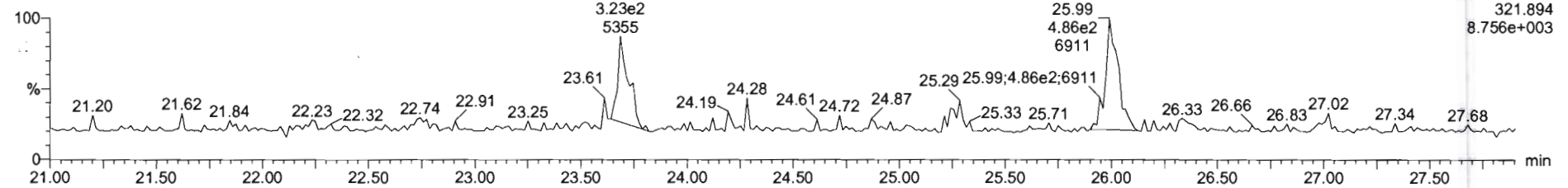
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2,3,7,8-TCDD

200506R2\_10

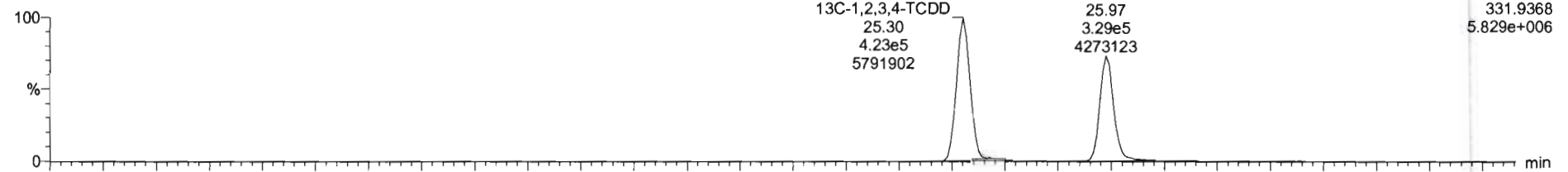


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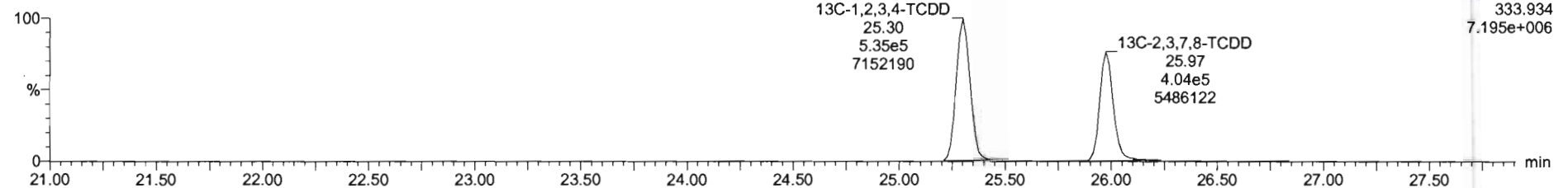


13C-2,3,7,8-TCDD

200506R2\_10

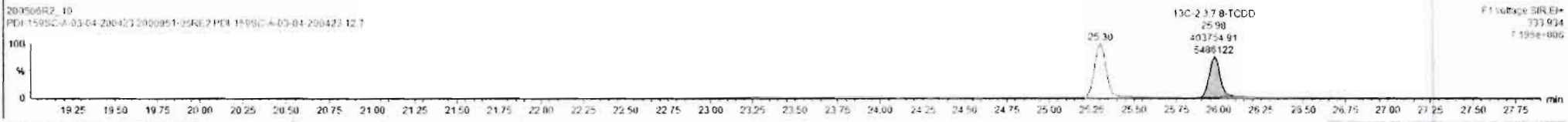
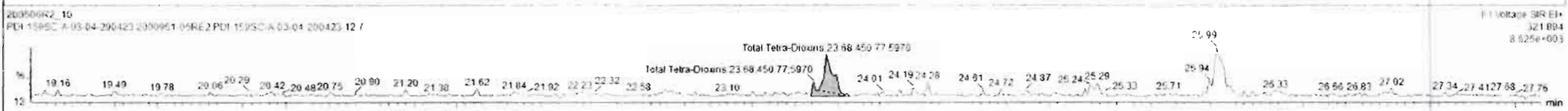
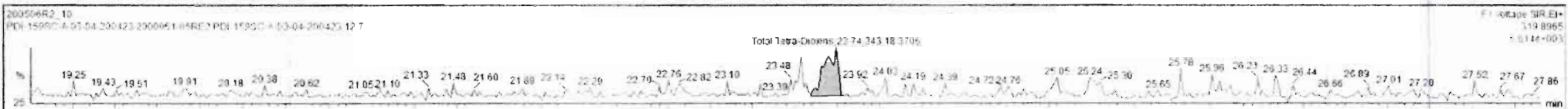


200506R2\_10



Name	Resp	RA	nly	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.8475	10.036			0.228		0.0729	0.228
40 Total Penta-Dioxins				0.8425	10.036					0.0402	
41 Total Hexa-Dioxins				0.9145	10.036			0.686		2.107	0.341
42 Total Hepta-Dioxins				0.8975	10.036			1.67		9.112	2.48

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Tetra-Dioxins	23.74	3.432e2	4.508e2	0.76	NO	0.22764	0.22764



Custom Reporting: Select reports to generate

Dataset: Untitled

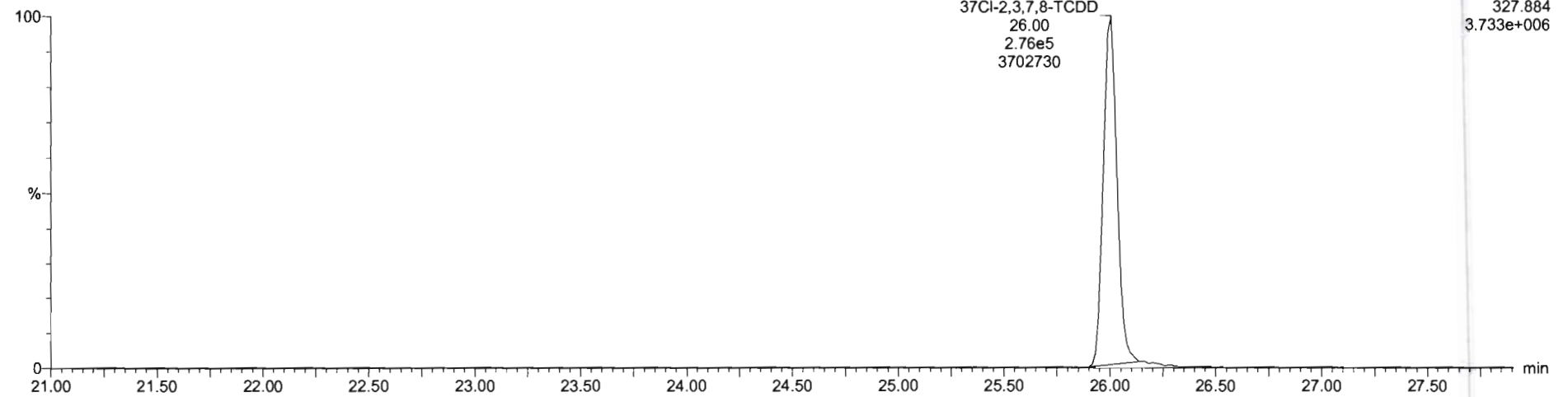
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Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

Name: 200506R2\_10, Date: 06-May-2020, Time: 20:33:36, ID: 2000951-05RE2 PDI-159SC-A-03-04-200423 12.7, Description: PDI-159SC-A-03-04-200423

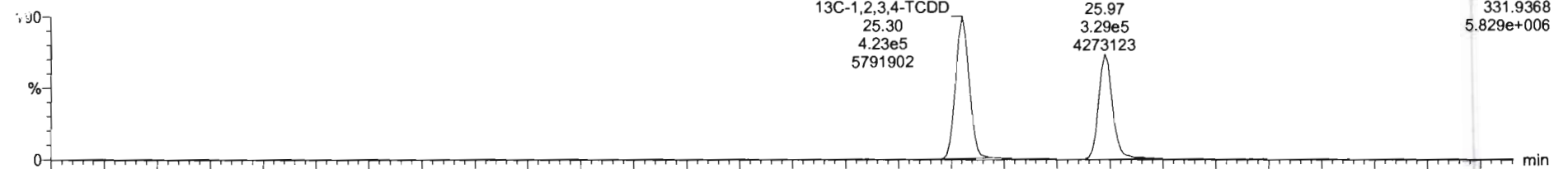
**37Cl-2,3,7,8-TCDD**

200506R2\_10

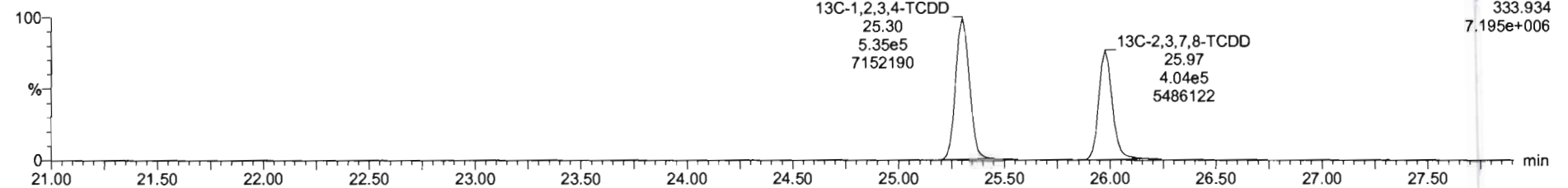


**13C-1,2,3,4-TCDD**

200506R2\_10



200506R2\_10



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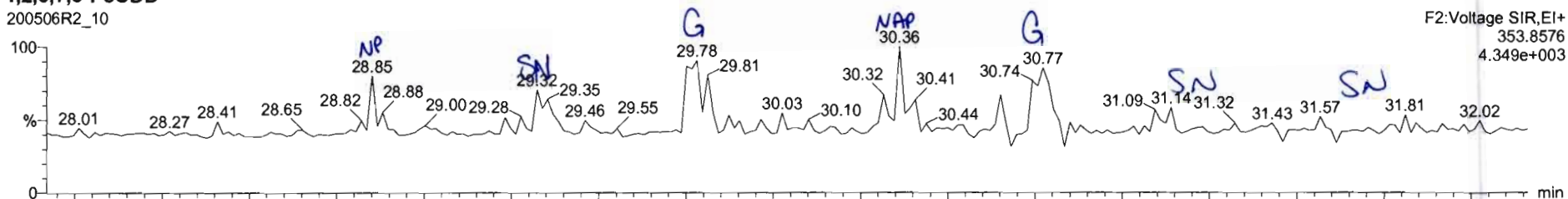
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Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

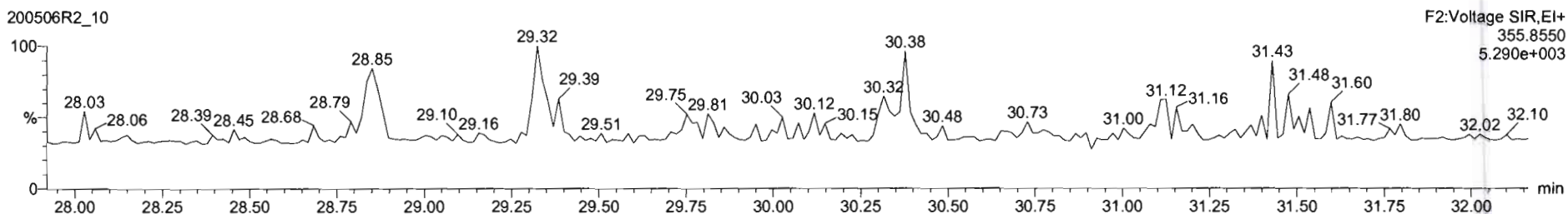
Name: 200506R2\_10, Date: 06-May-2020, Time: 20:33:36, ID: 2000951-05RE2 PDI-159SC-A-03-04-200423 12.7, Description: PDI-159SC-A-03-04-200423

1,2,3,7,8-PeCDD

200506R2\_10

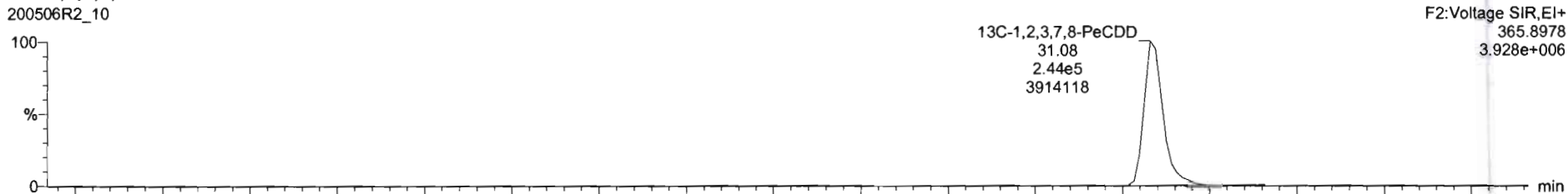


200506R2\_10

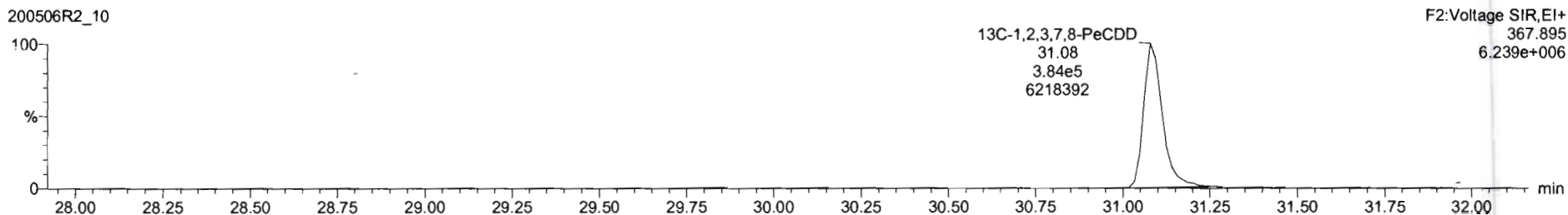


13C-1,2,3,7,8-PeCDD

200506R2\_10



200506R2\_10



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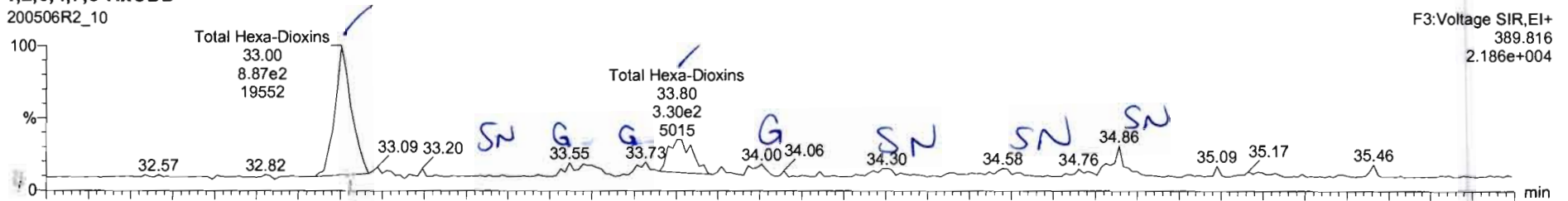
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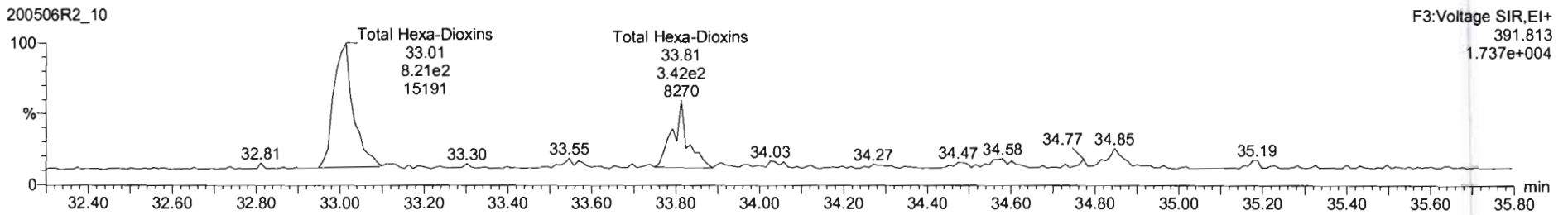
1,2,3,4,7,8-HxCDD

200506R2\_10



F3:Voltage SIR,EI+  
389.816  
2.186e+004

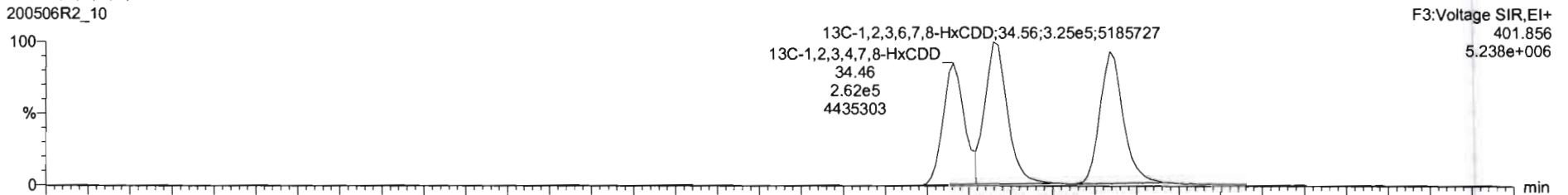
200506R2\_10



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1.737e+004

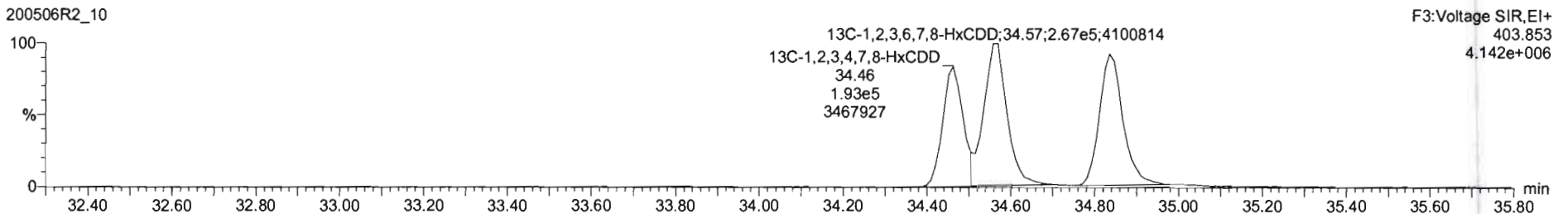
13C-1,2,3,4,7,8-HxCDD

200506R2\_10



F3:Voltage SIR,EI+  
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5.238e+006

200506R2\_10

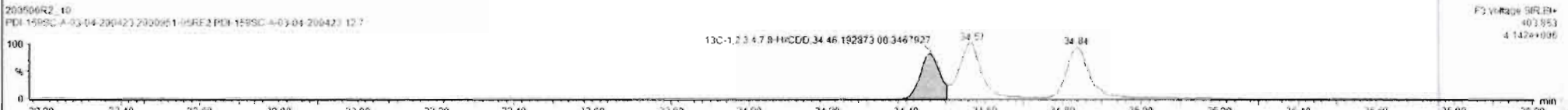
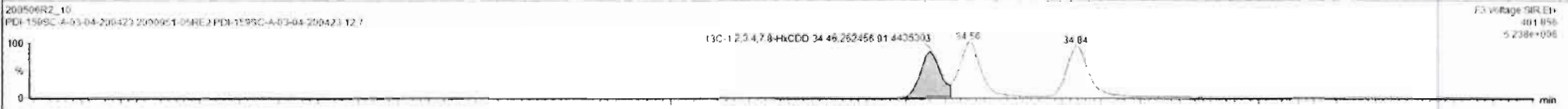
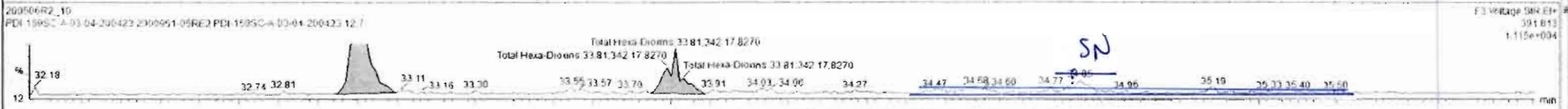
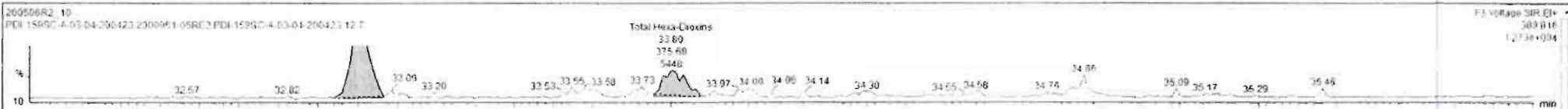


F3:Voltage SIR,EI+  
403.853  
4.142e+006



Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc.	%Rec	DL	EWPC
39 Total Tetra-Dioxins				0.9475	10.036			0.220		0.0729	0.220
40 Total Penta-Dioxins				0.9425	10.036					0.0402	
41 Total Hexa-Dioxins				0.9145	10.036			1.00		0.107	1.00
42 Total Hepta-Dioxins				0.8575	10.036			1.07		0.112	0.48

Name	RT	m1 Resp	m2 Resp	RA	nly	EWPC	Conc.
1 Total Hexa-Dioxins	33.00	0.114e2	6.205e2	1.11	NO	0.70755	0.70755
2 Total Hexa-Dioxins	33.60	3.757e2	3.422e2	1.10	NO	0.29327	0.29327



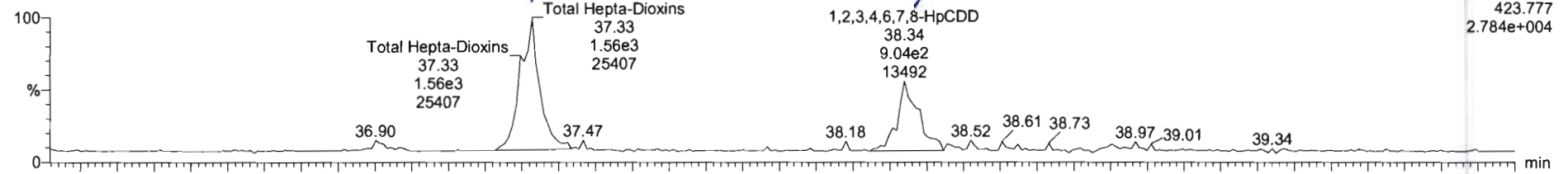
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Last Altered: Thursday, May 07, 2020 7:18:10 AM Pacific Daylight Time  
Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

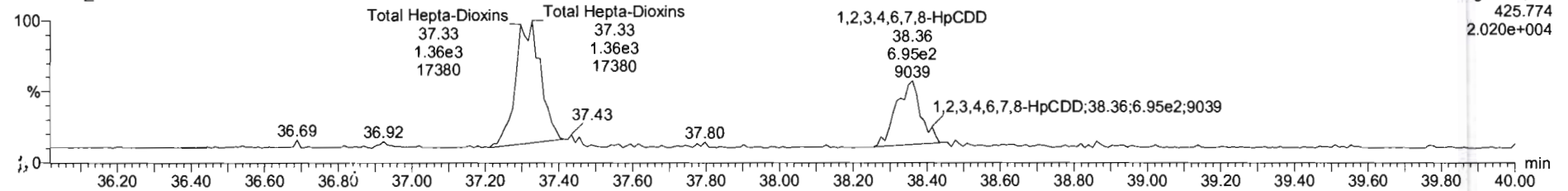
Name: 200506R2\_10, Date: 06-May-2020, Time: 20:33:36, ID: 2000951-05RE2 PDI-159SC-A-03-04-200423 12.7, Description: PDI-159SC-A-03-04-200423

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

200506R2\_10

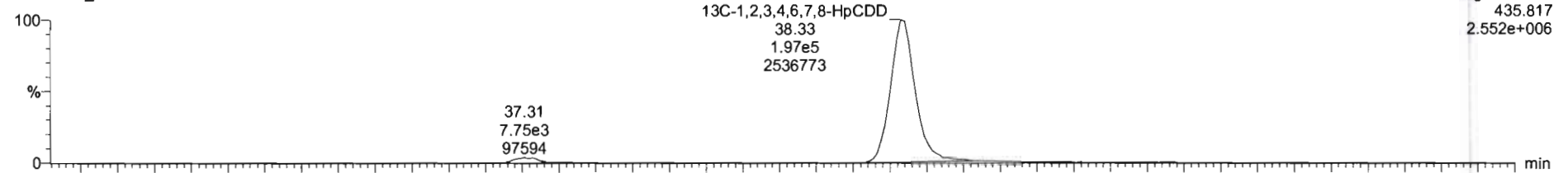


200506R2\_10

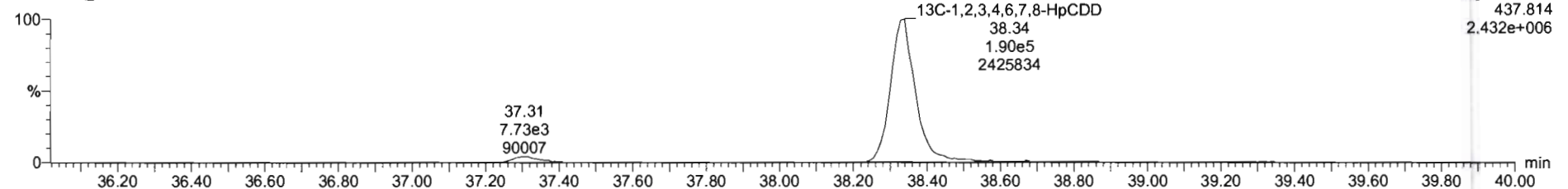


13C-1,2,3,4,6,7,8-HpCDD

200506R2\_10

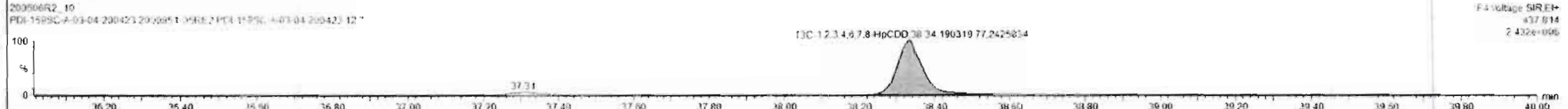
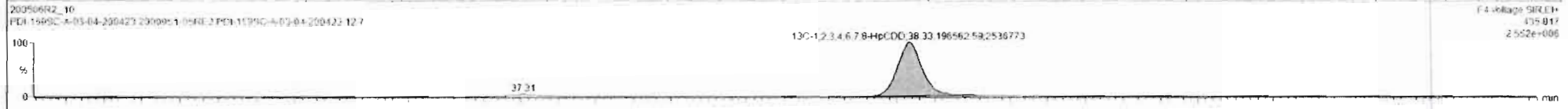
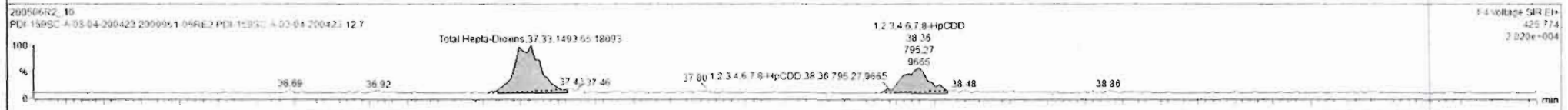
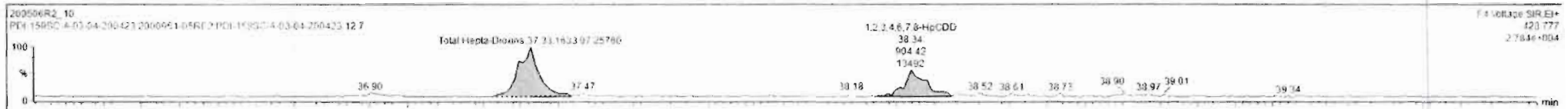


200506R2\_10



SI	Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9475	10.038			0.220		0.0739	9.228
40	Total Penta-Dioxins				0.9425	10.036					0.0402	
41	Total Hexa-Dioxins				0.9145	10.038			1.00		0.101	1.00
42	Total Hepta-Dioxins				0.8979	10.036			2.77		0.112	2.77

SI	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	Total Hepta-Dioxins	37.33	1.634e7	1.494e3	1.09	NO	1.7938	1.7938
2	1,2,3,4,6,7,8-HpCDD	38.34	9.044e2	7.963e2	1.14	NO	0.97481	0.97481

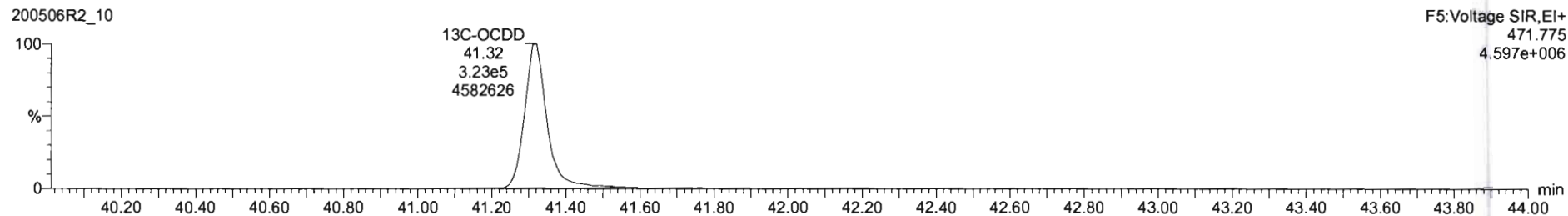
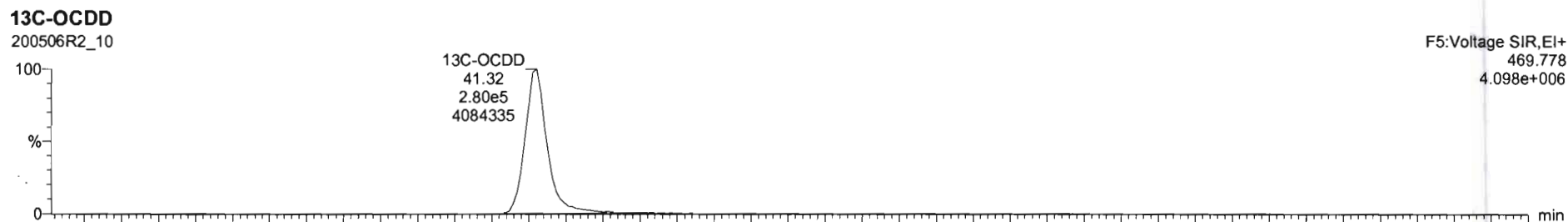
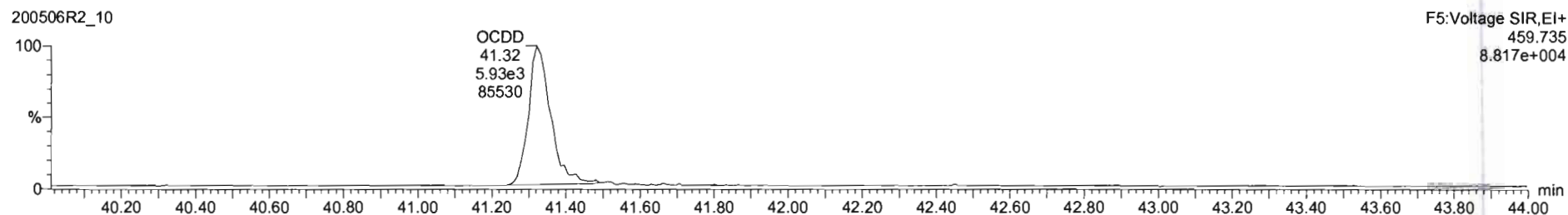
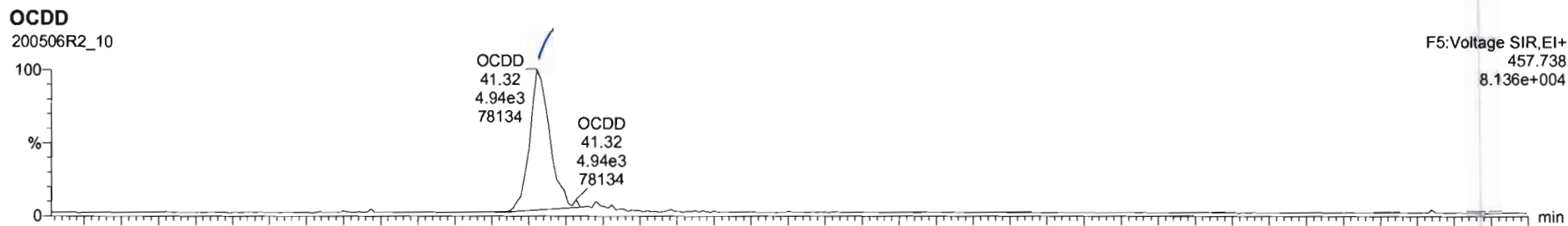


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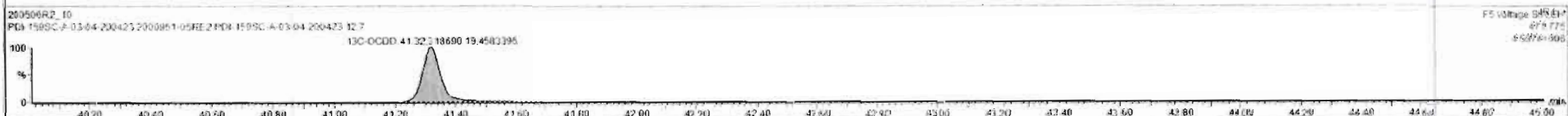
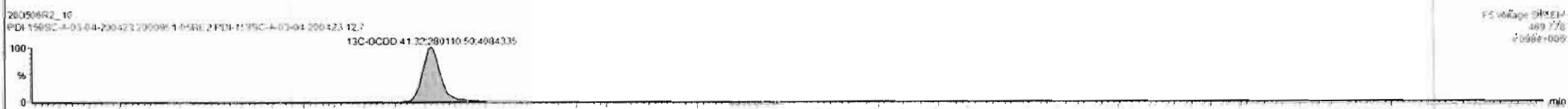
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Name: 200506R2\_10, Date: 06-May-2020, Time: 20:33:36, ID: 2000951-05RE2 PDI-159SC-A-03-04-200423 12.7, Description: PDI-159SC-A-03-04-200423



Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
OCDD	1.664	0.87	NO	0.0335	10.038	41.32	1.000	7.63		0.149	7.68
2,3,7,8-TCDF			NO	0.7871	10.038					0.0518	
1,2,3,7,8-PeCDF			NO	0.5102	10.038					0.0335	
2,3,4,7,8-PeCDF			NO	0.9664	10.038					0.0512	

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



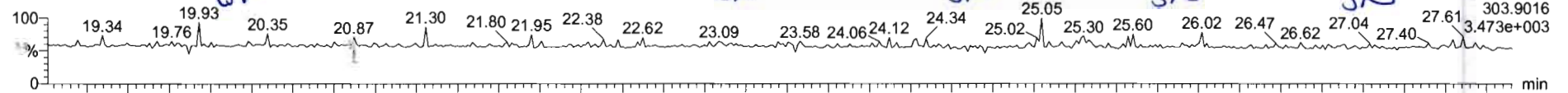
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Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

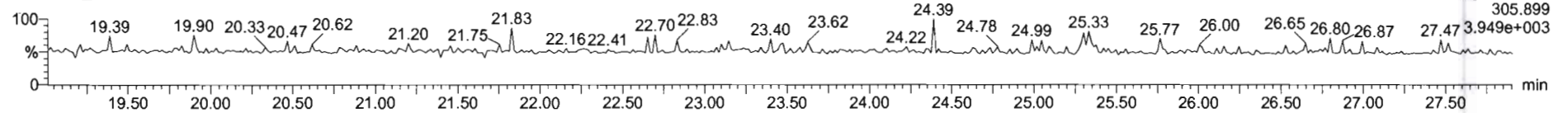
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**2,3,7,8-TCDF**

200506R2\_10

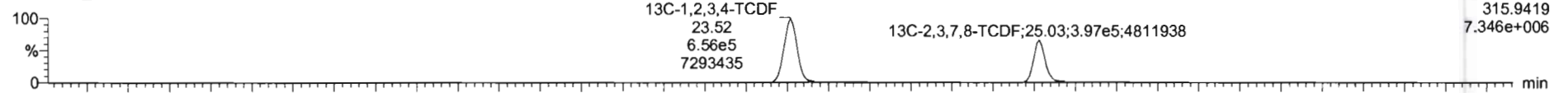


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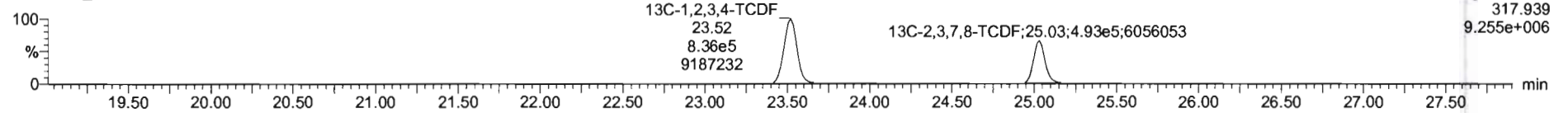


**13C-2,3,7,8-TCDF**

200506R2\_10

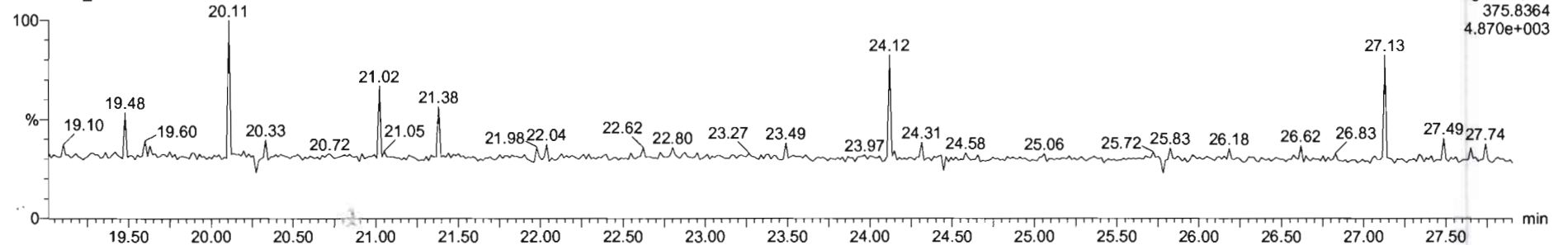


200506R2\_10



**DPE1**

200506R2\_10



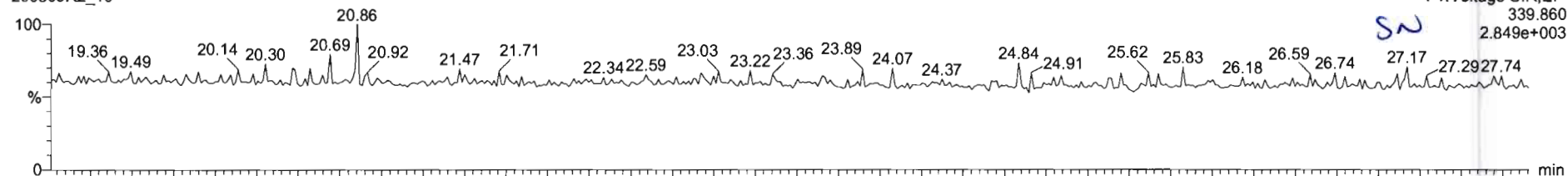
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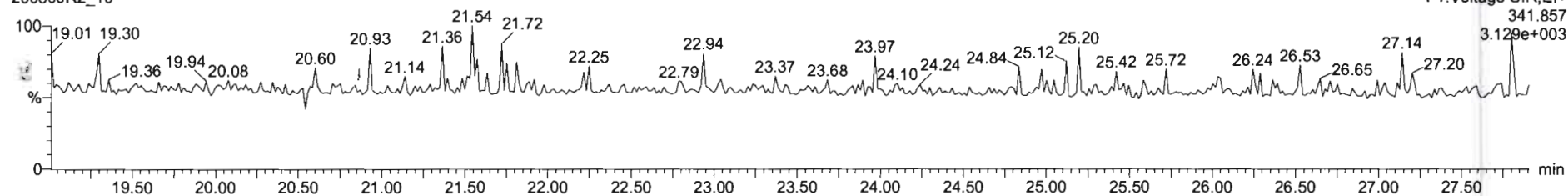
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1st Func. Penta-Furans

200506R2\_10

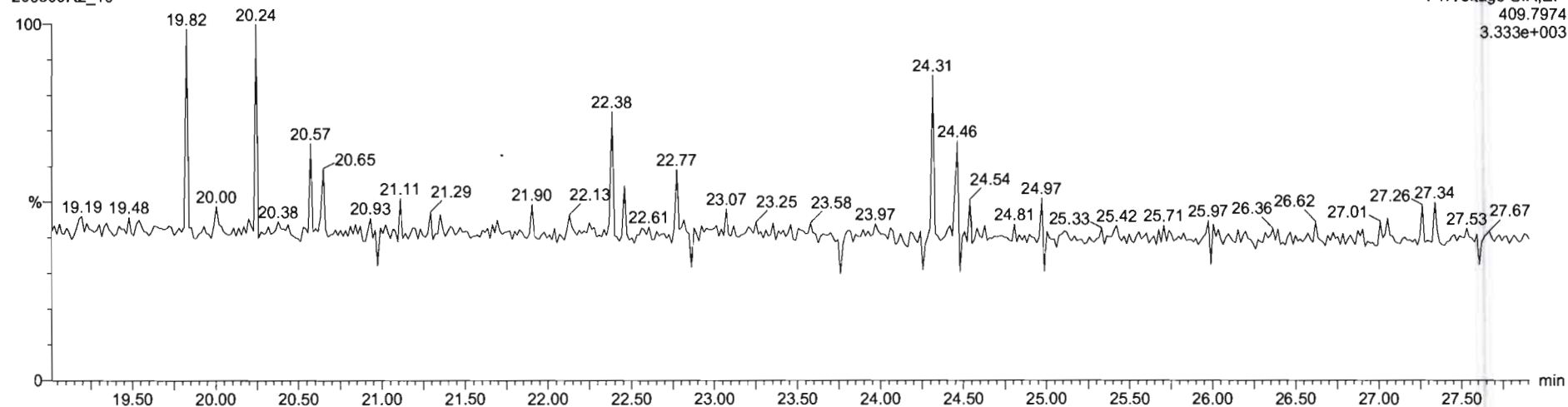


200506R2\_10



DPE6

200506R2\_10



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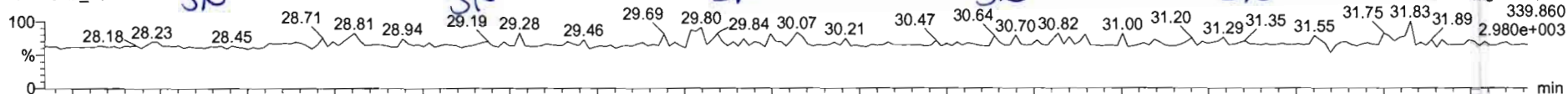
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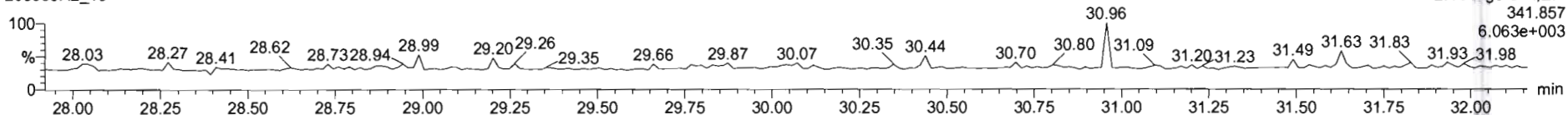
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**1,2,3,7,8-PeCDF**

200506R2\_10

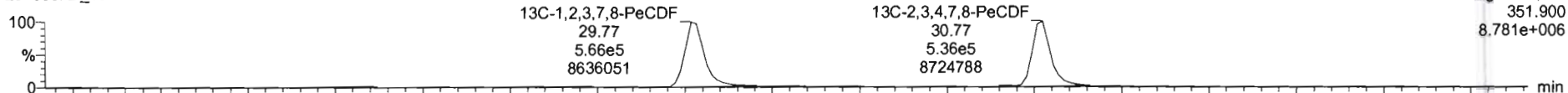


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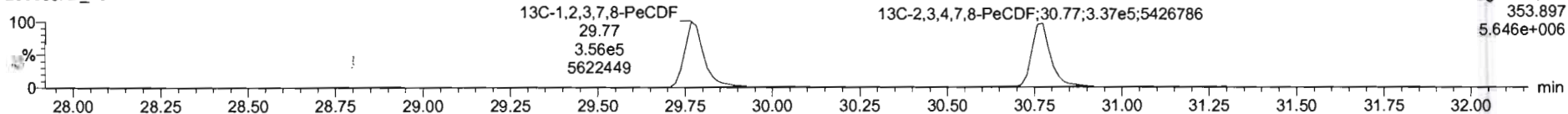


**13C-1,2,3,7,8-PeCDF**

200506R2\_10

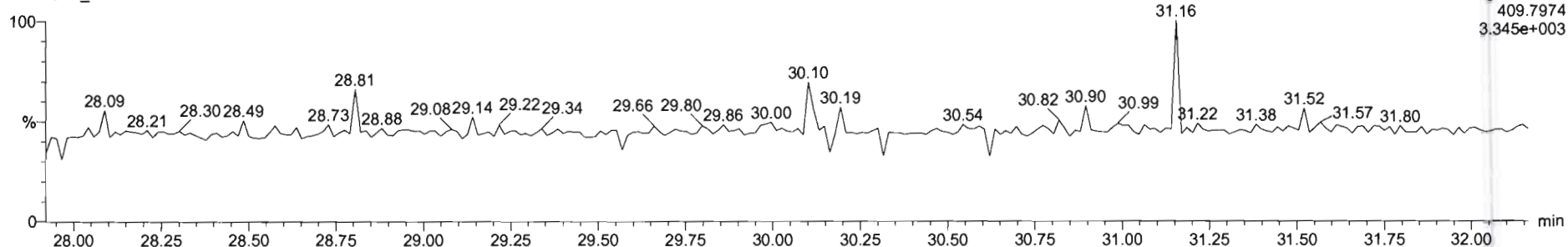


200506R2\_10



**DPE2**

200506R2\_10





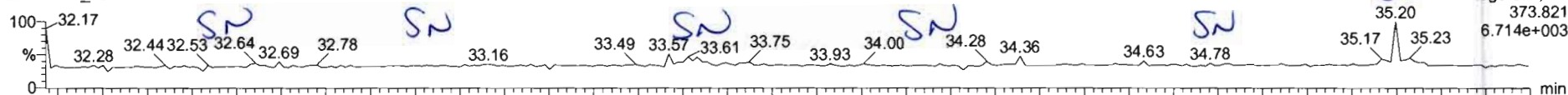
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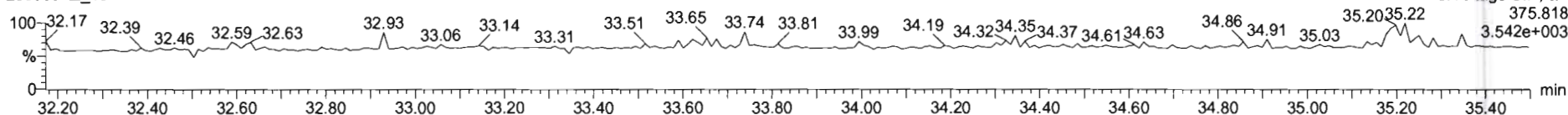
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**1,2,3,4,7,8-HxCDF**

200506R2\_10

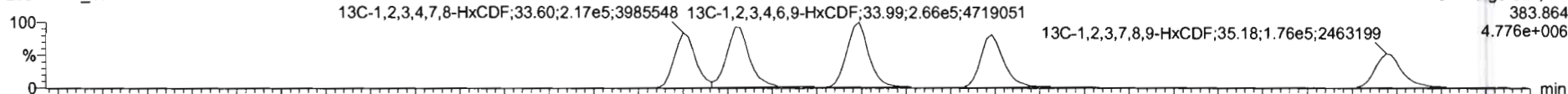


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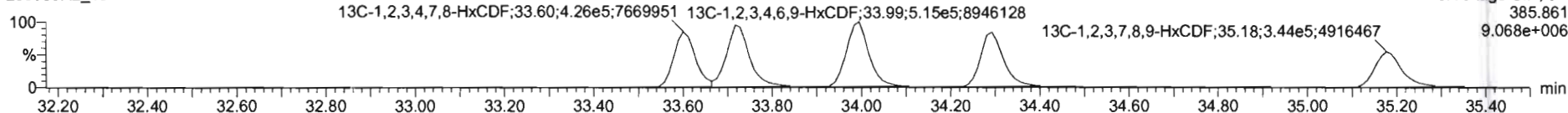


**13C-1,2,3,4,7,8-HxCDF**

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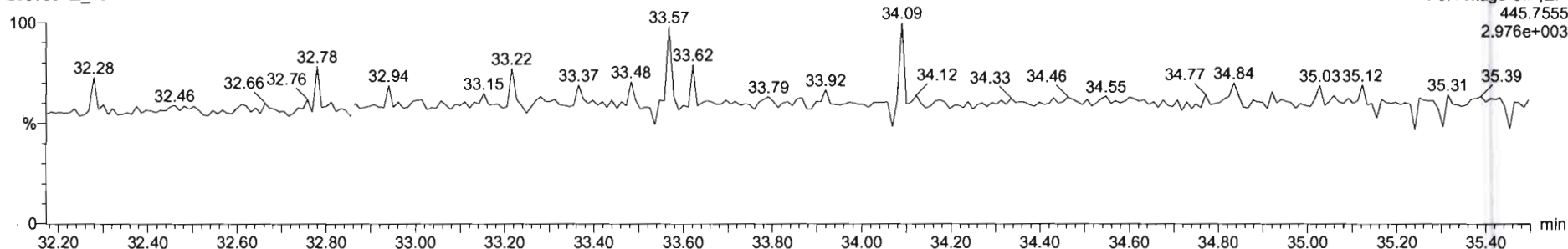


200506R2\_10



**DPE3**

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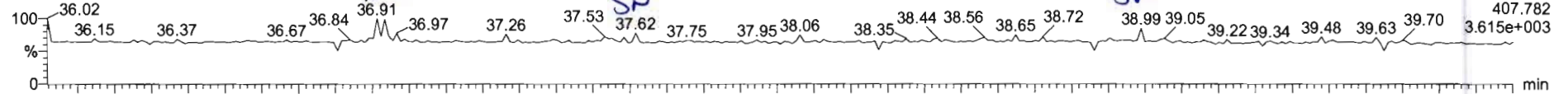
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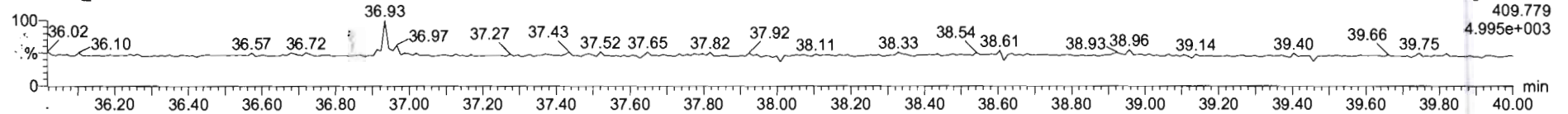
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**1,2,3,4,6,7,8-HpCDF**

200506R2\_10

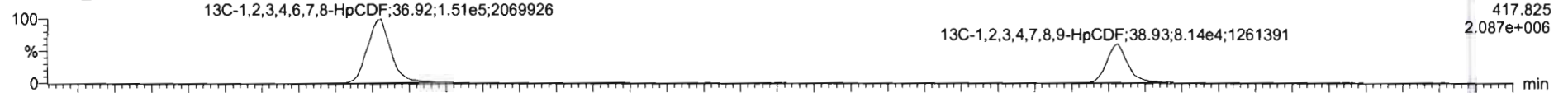


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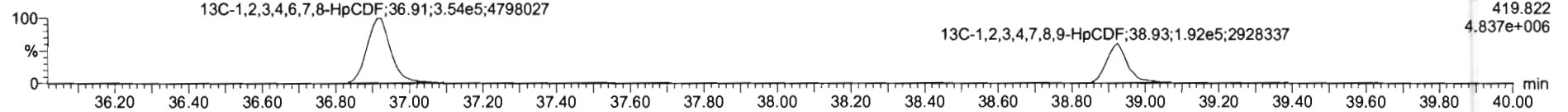


**13C-1,2,3,4,6,7,8-HpCDF**

200506R2\_10

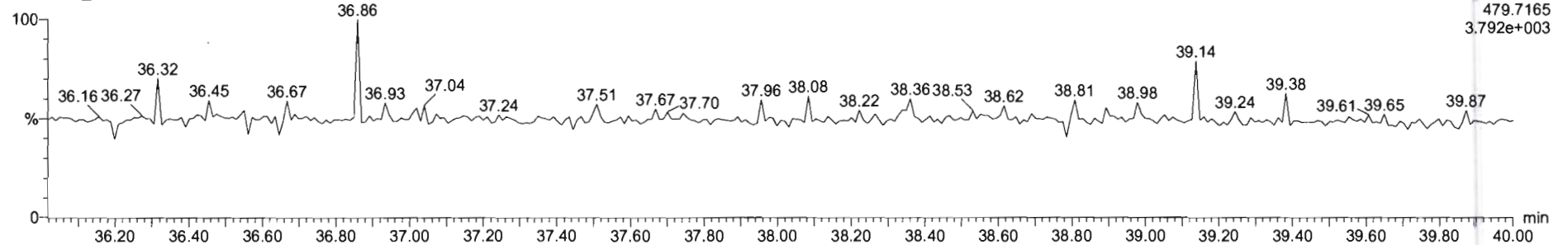


200506R2\_10



**DPE4**

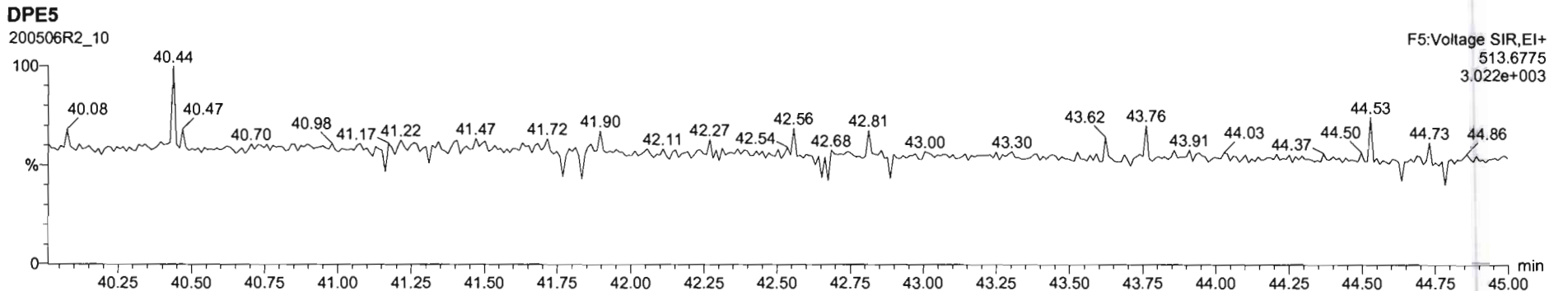
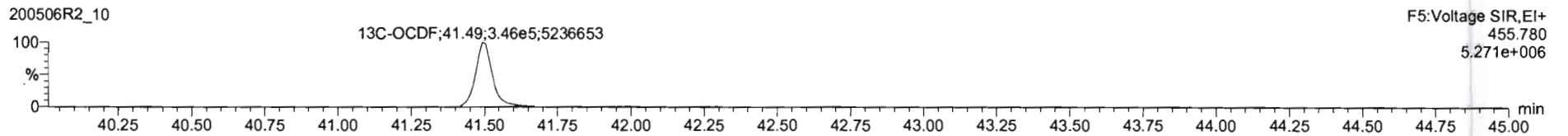
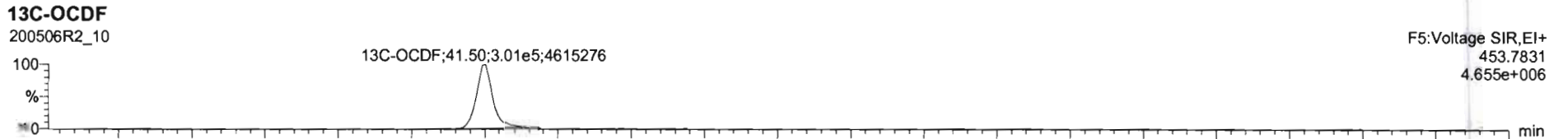
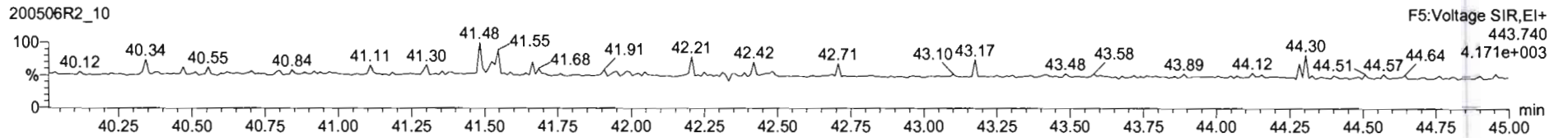
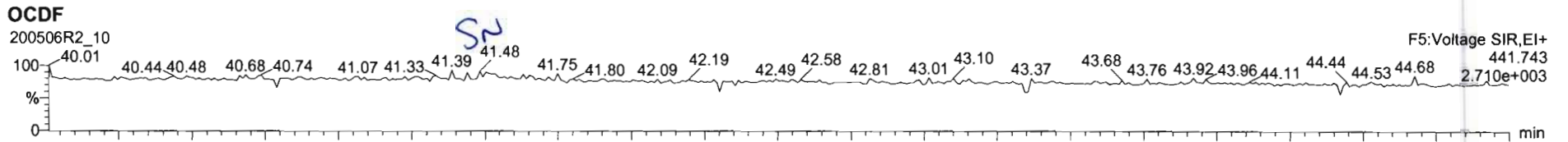
200506R2\_10



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Last Altered: Thursday, May 07, 2020 7:18:10 AM Pacific Daylight Time  
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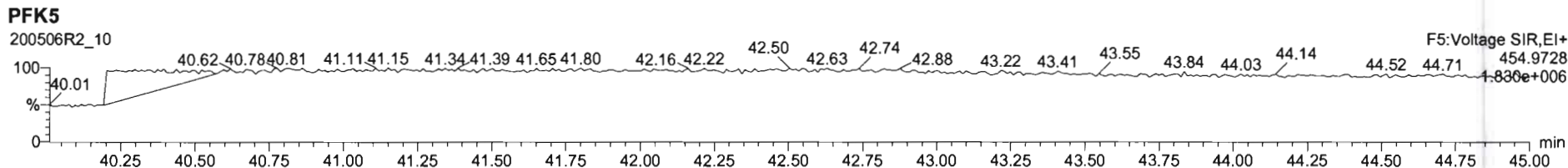
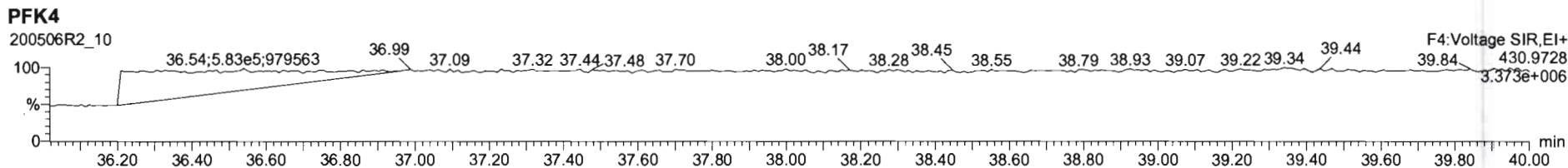
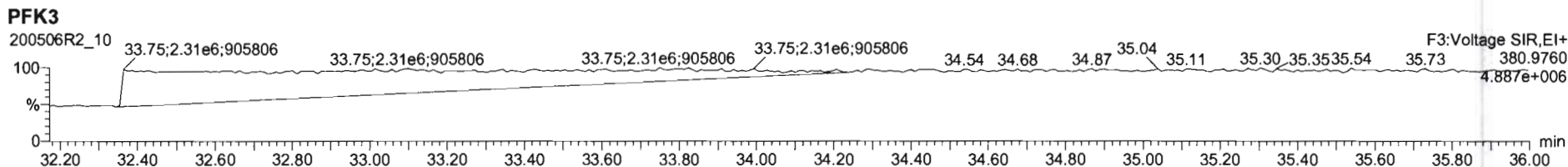
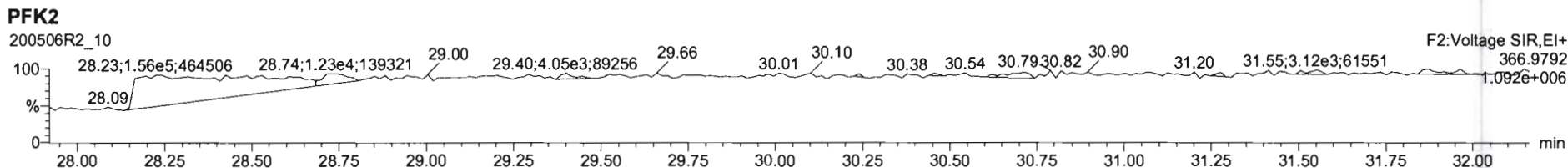
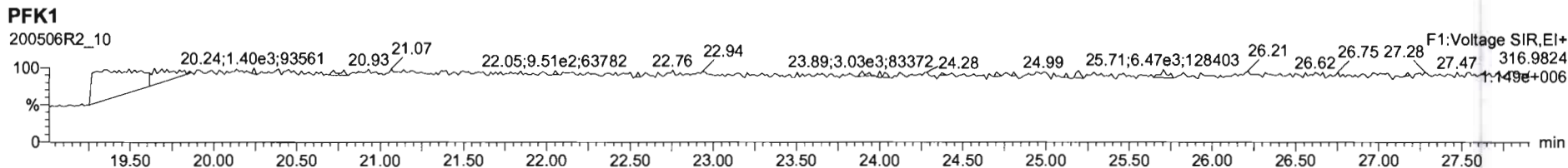
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Dataset: Untitled

Last Altered: Thursday, May 07, 2020 7:18:10 AM Pacific Daylight Time  
F inted: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

Name: 200506R2\_10, Date: 06-May-2020, Time: 20:33:36, ID: 2000951-05RE2 PDI-159SC-A-03-04-200423 12.7, Description: PDI-159SC-A-03-04-200423



Dataset: U:\VG12.PRO\Results\200506R2\200506R2-11.qld

Last Altered: Thursday, May 07, 2020 11:28:49 AM Pacific Daylight Time

Printed: Thursday, May 07, 2020 11:31:49 AM Pacific Daylight Time

*GPB 05/07/2020*

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

*C7 05/11/2020*

Name: 200506R2\_11, Date: 06-May-2020, Time: 21:19:47, ID: 2000951-06 PDI-159SC-A-04-05-200423 11.05, Description: PDI-159SC-A-04-05-200423

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.947	10.080	26.006		1.001				0.0730	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.080	31.101		1.001				0.0754	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.080	34.473		1.000				0.0882	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.080	34.569		1.000				0.0927	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.080	34.856		1.000				0.113	
6	6 1,2,3,4,6,7,8-HpCDD	1.59e3	1.06	NO	0.898	10.080	38.352	38.37	1.000	1.001	0.93808		0.126	0.938
7	7 OCDD	1.02e4	0.89	NO	0.933	10.080	41.343	41.35	1.000	1.000	7.1240		0.111	7.12
8	8 2,3,7,8-TCDF			NO	0.787	10.080	25.057		1.001				0.0360	
9	9 1,2,3,7,8-PeCDF			NO	0.910	10.080	29.788		1.001				0.0431	
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.080	30.790		1.001				0.0403	
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	10.080	33.600		1.000				0.0319	
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.080	33.738		1.000				0.0293	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.080	34.326		1.001				0.0318	
14	14 1,2,3,7,8,9-HxCDF			NO	0.864	10.080	35.187		1.000				0.0520	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.871	10.080	36.960		1.001				0.0410	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.080	38.936		1.000				0.0601	
17	17 OCDF			NO	0.802	10.080	41.514		1.000				0.0775	
18	18 13C-2,3,7,8-TCDD	8.97e5	0.77	NO	1.16	10.080	25.969	25.98	1.026	1.027	167.76	84.5	0.168	
19	19 13C-1,2,3,7,8-PeCDD	7.02e5	0.64	NO	0.847	10.080	31.049	31.08	1.227	1.228	179.72	90.6	0.412	
20	20 13C-1,2,3,4,7,8-HxCDD	5.21e5	1.28	NO	0.750	10.080	34.473	34.46	1.014	1.014	193.62	97.6	0.469	
21	21 13C-1,2,3,6,7,8-HxCDD	6.14e5	1.28	NO	0.963	10.080	34.585	34.57	1.017	1.017	177.57	89.5	0.365	
22	22 13C-1,2,3,7,8,9-HxCDD	5.37e5	1.25	NO	0.838	10.080	34.854	34.85	1.025	1.025	178.61	90.0	0.420	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.74e5	1.09	NO	0.641	10.080	38.342	38.34	1.128	1.128	162.27	81.8	0.444	
24	24 13C-OCDD	6.10e5	0.89	NO	0.586	10.080	41.333	41.34	1.216	1.216	289.75	73.0	0.496	
25	25 13C-2,3,7,8-TCDF	1.07e6	0.79	NO	1.03	10.080	25.030	25.03	0.989	0.989	153.98	77.6	0.379	
26	26 13C-1,2,3,7,8-PeCDF	1.04e6	1.60	NO	0.845	10.080	29.741	29.77	1.176	1.177	181.93	91.7	0.655	
27	27 13C-2,3,4,7,8-PeCDF	1.01e6	1.63	NO	0.814	10.080	30.731	30.76	1.215	1.216	184.74	93.1	0.680	
28	28 13C-1,2,3,4,7,8-HxCDF	6.64e5	0.51	NO	1.00	10.080	33.613	33.60	0.989	0.988	184.21	92.8	0.534	
29	29 13C-1,2,3,6,7,8-HxCDF	7.82e5	0.51	NO	1.14	10.080	33.736	33.73	0.992	0.992	191.59	96.6	0.472	
30	30 13C-2,3,4,6,7,8-HxCDF	6.78e5	0.52	NO	1.02	10.080	34.303	34.29	1.009	1.009	184.81	93.1	0.525	
31	31 13C-1,2,3,7,8,9-HxCDF	5.17e5	0.50	NO	0.845	10.080	35.194	35.19	1.035	1.035	170.51	85.9	0.635	

Dataset: U:\VG12.PRO\Results\200506R2\200506R2-11.qld

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Name: 200506R2\_11, Date: 06-May-2020, Time: 21:19:47, ID: 2000951-06 PDI-159SC-A-04-05-200423 11.05, Description: PDI-159SC-A-04-05-200423

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	5.01e5	0.43	NO	0.771	10.080	36.924	36.92	1.086	1.086	181.06	91.2	0.637	
33	13C-1,2,3,4,7,8,9-HpCDF	2.80e5	0.46	NO	0.482	10.080	38.933	38.94	1.145	1.145	161.69	81.5	1.02	
34	13C-OCDF	6.69e5	0.88	NO	0.669	10.080	41.503	41.51	1.221	1.221	278.79	70.3	0.322	
35	37Cl-2,3,7,8-TCDD	3.58e5			1.10	10.080	25.999	26.00	1.028	1.028	70.787	89.2	0.0548	
36	13C-1,2,3,4-TCDD	9.15e5	0.80	NO	1.00	10.080	25.350	25.30	1.000	1.000	198.42	100	0.195	
37	13C-1,2,3,4-TCDF	1.34e6	0.78	NO	1.00	10.080	23.560	23.50	1.000	1.000	198.42	100	0.392	
38	13C-1,2,3,4,6,9-HxCDF	7.12e5	0.52	NO	1.00	10.080	34.000	33.99	1.000	1.000	198.42	100	0.536	
39	Total Tetra-Dioxins				0.947	10.080	24.620		0.000		0.52439		0.0730	0.524
40	Total Penta-Dioxins				0.942	10.080	29.960		0.000		0.15574		0.0754	0.231
41	Total Hexa-Dioxins				0.915	10.080	33.635		0.000		1.2863		0.102	1.29
42	Total Hepta-Dioxins				0.898	10.080	37.640		0.000		2.8276		0.126	2.83
43	Total Tetra-Furans				0.787	10.080	23.610		0.000				0.0144	
44	1st Func. Penta-Furans				0.910	10.080	27.090		0.000		0.042754		0.00931	0.0428
45	Total Penta-Furans				0.910	10.080	29.275		0.000				0.0184	
46	Total Hexa-Furans				0.922	10.080	33.555		0.000				0.0180	
47	Total Hepta-Furans				0.871	10.080	37.835		0.000				0.0257	

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Dataset: U:\VG12.PRO\Results\200506R2\200506R2-11.qld

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Name: 200506R2\_11, Date: 06-May-2020, Time: 21:19:47, ID: 2000951-06 PDI-159SC-A-04-05-200423 11.05, Description: PDI-159SC-A-04-05-200423

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.68	9.668e3	1.168e4	7.130e2	1.037e3	0.69	NO	1.750e3	0.40884	0.40884	0.0730
2	Total Tetra-Dioxins	25.26	3.370e3	3.448e3	2.318e2	2.629e2	0.88	NO	4.947e2	0.11555	0.11555	0.0730

**Penta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.31	3.400e3	4.862e3	1.861e2	3.330e2	0.56	NO	5.192e2	0.15574	0.15574	0.0754
2	Total Penta-Dioxins	29.43	2.887e3	4.308e3	9.657e1	2.511e2	0.38	YES	0.000e0	0.00000	0.074951	0.0754

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.00	2.552e4	2.091e4	1.286e3	1.138e3	1.13	NO	2.425e3	0.94407	0.94407	0.102
2	Total Hexa-Dioxins	33.80	8.965e3	7.297e3	4.765e2	4.023e2	1.18	NO	8.788e2	0.34220	0.34220	0.102

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.32	2.313e4	2.186e4	1.614e3	1.580e3	1.02	NO	3.194e3	1.8895	1.8895	0.126
2	1,2,3,4,6,7,8-HpCDD	38.37	1.112e4	9.021e3	8.163e2	7.695e2	1.06	NO	1.586e3	0.93808	0.93808	0.126

**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	1st Func. Penta-Furans	26.93	2.618e3	1.946e3	1.186e2	8.261e1	1.44	NO	2.012e2	0.042754	0.042754	0.00931

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200506R2\200506R2-11.qld

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Name: 200506R2\_11, Date: 06-May-2020, Time: 21:19:47, ID: 2000951-06 PDI-159SC-A-04-05-200423 11.05, Description: PDI-159SC-A-04-05-200423

**Penta-Furans**

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

**Hexa-Furans**

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

**Hepta-Furans**

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



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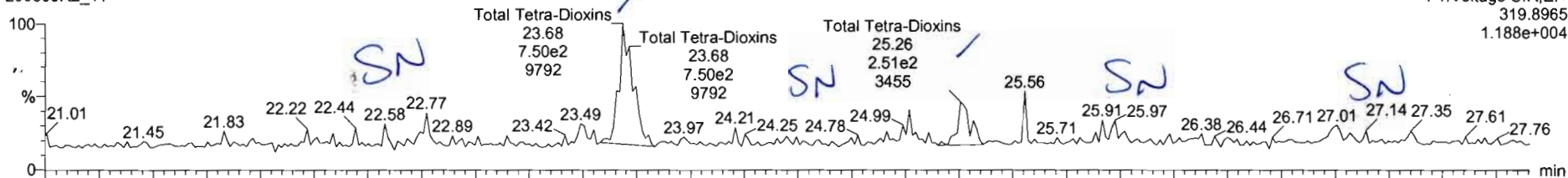
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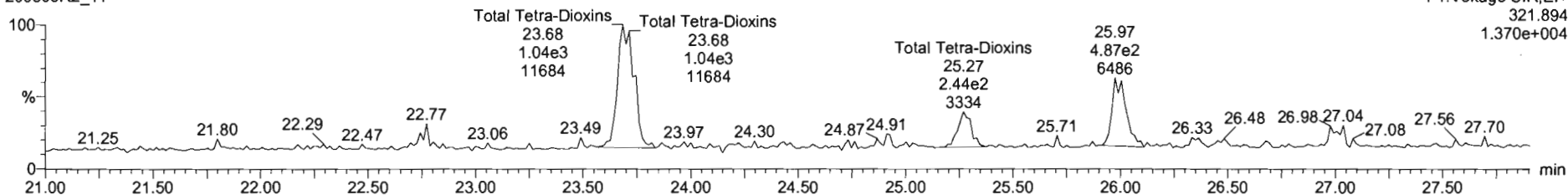
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2,3,7,8-TCDD

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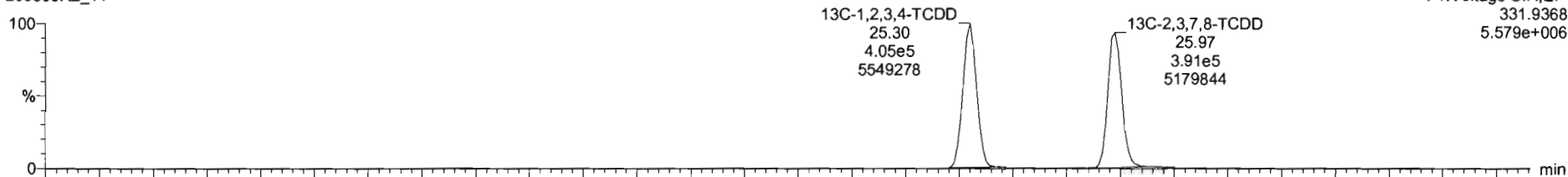


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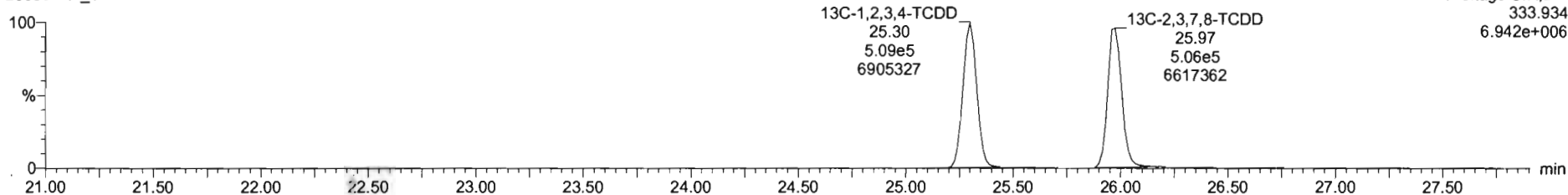


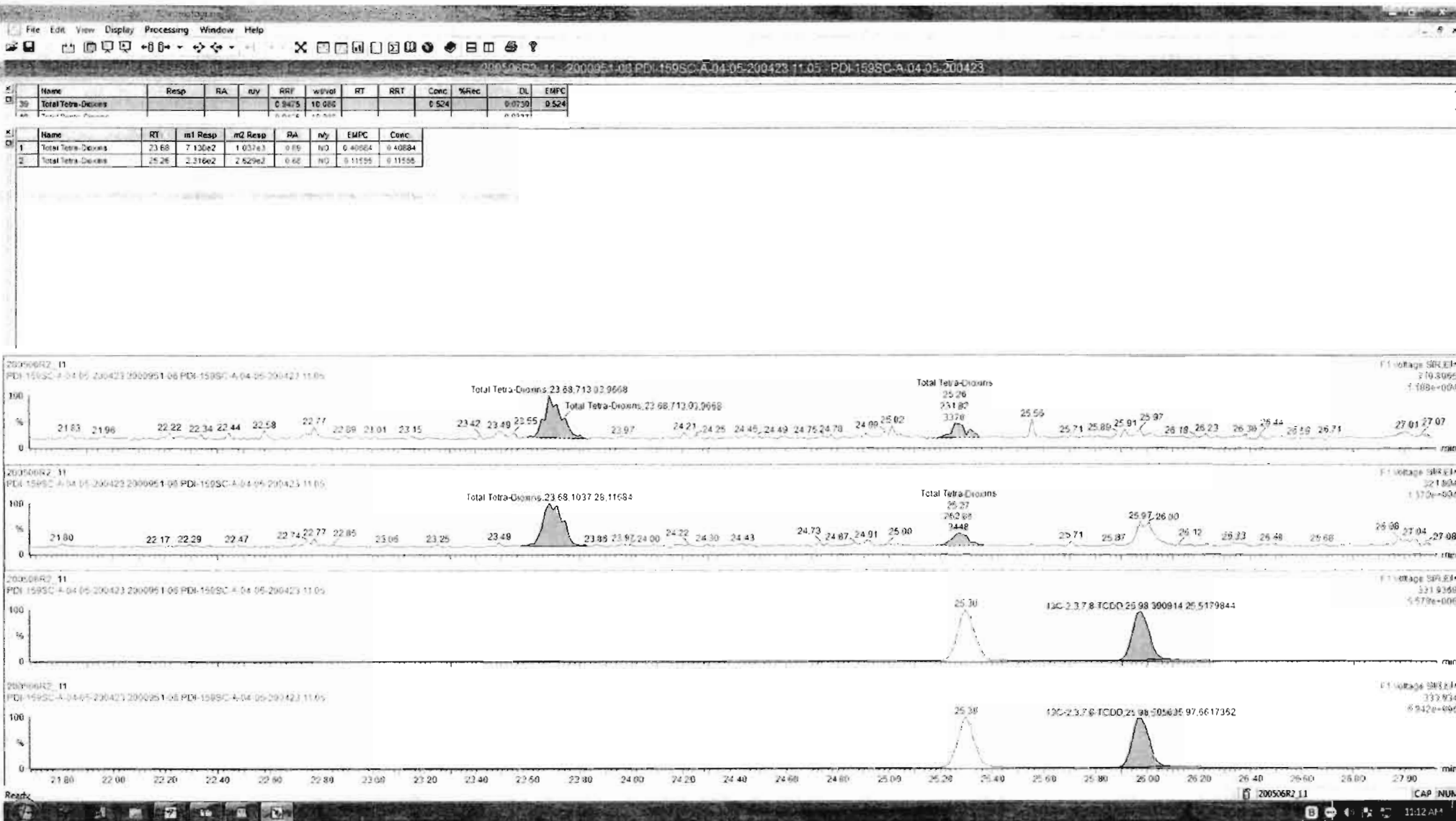
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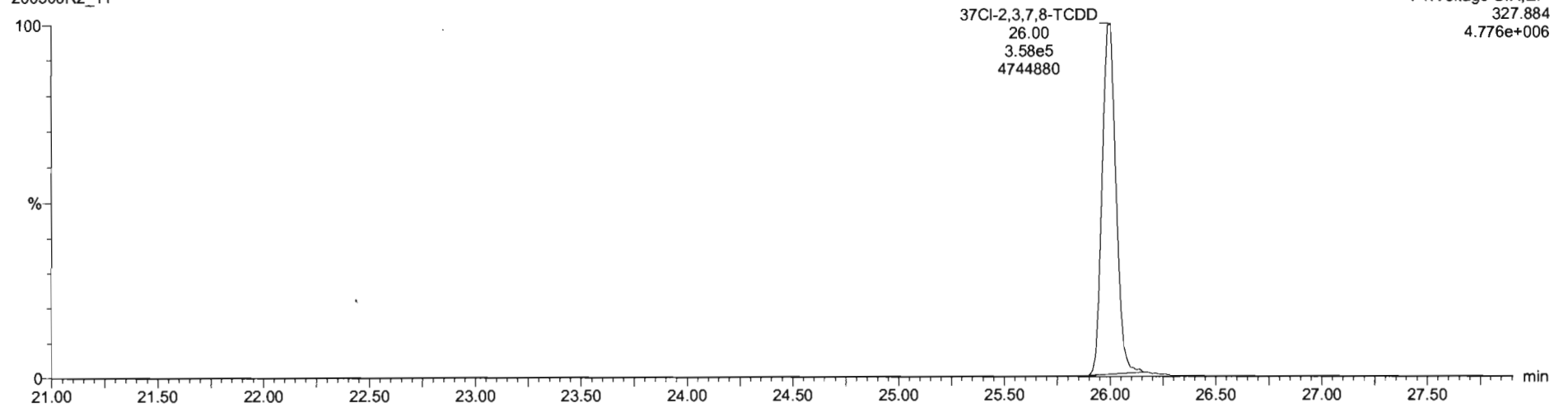
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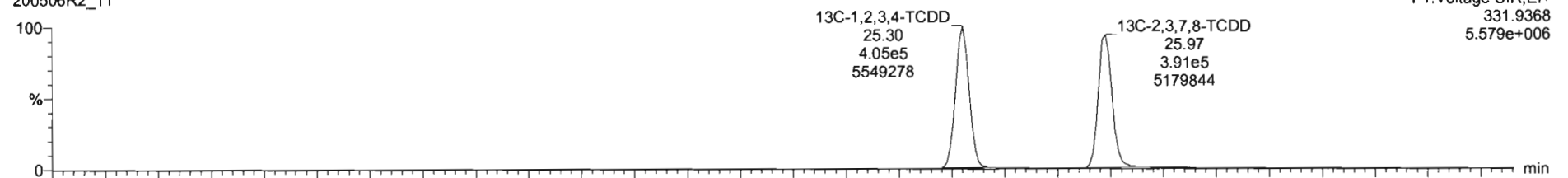
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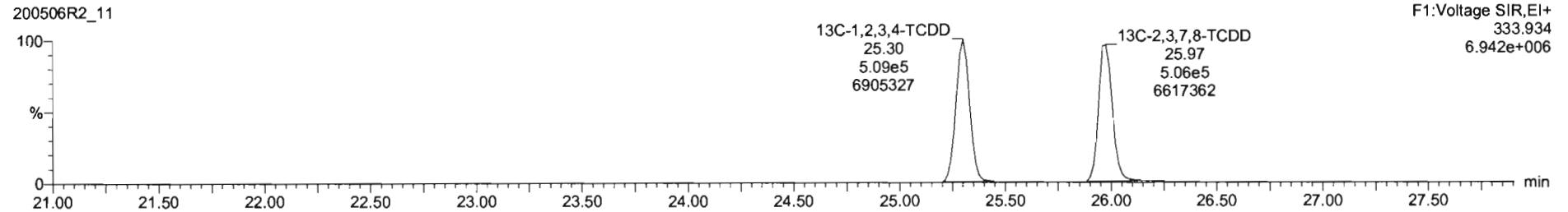


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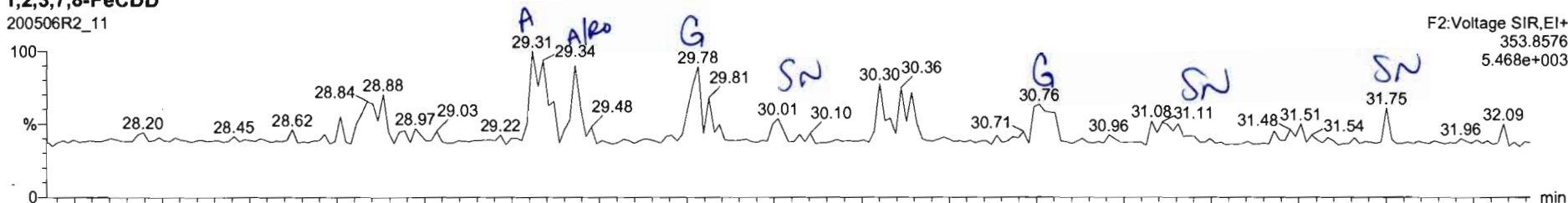
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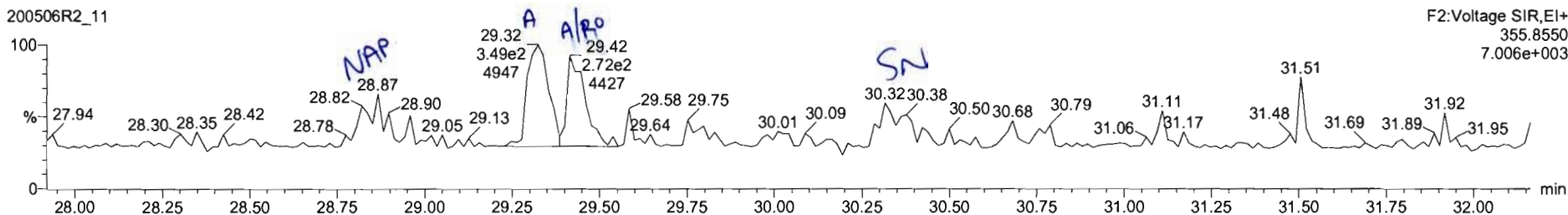
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1,2,3,7,8-PeCDD

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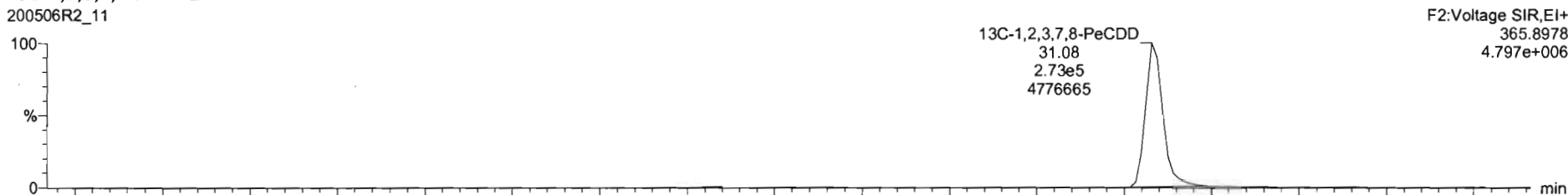


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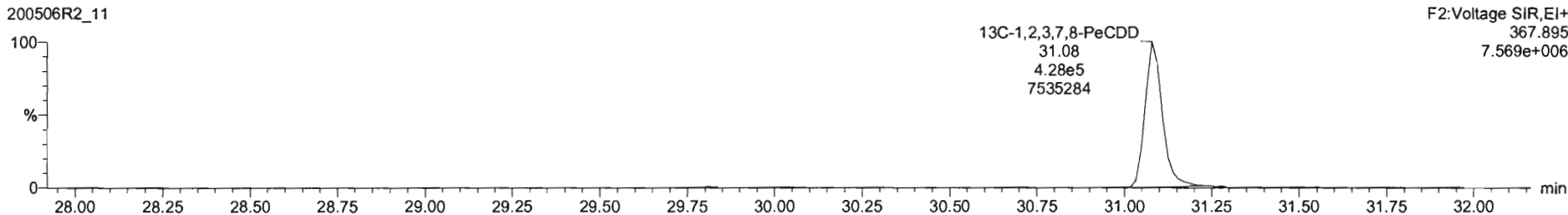


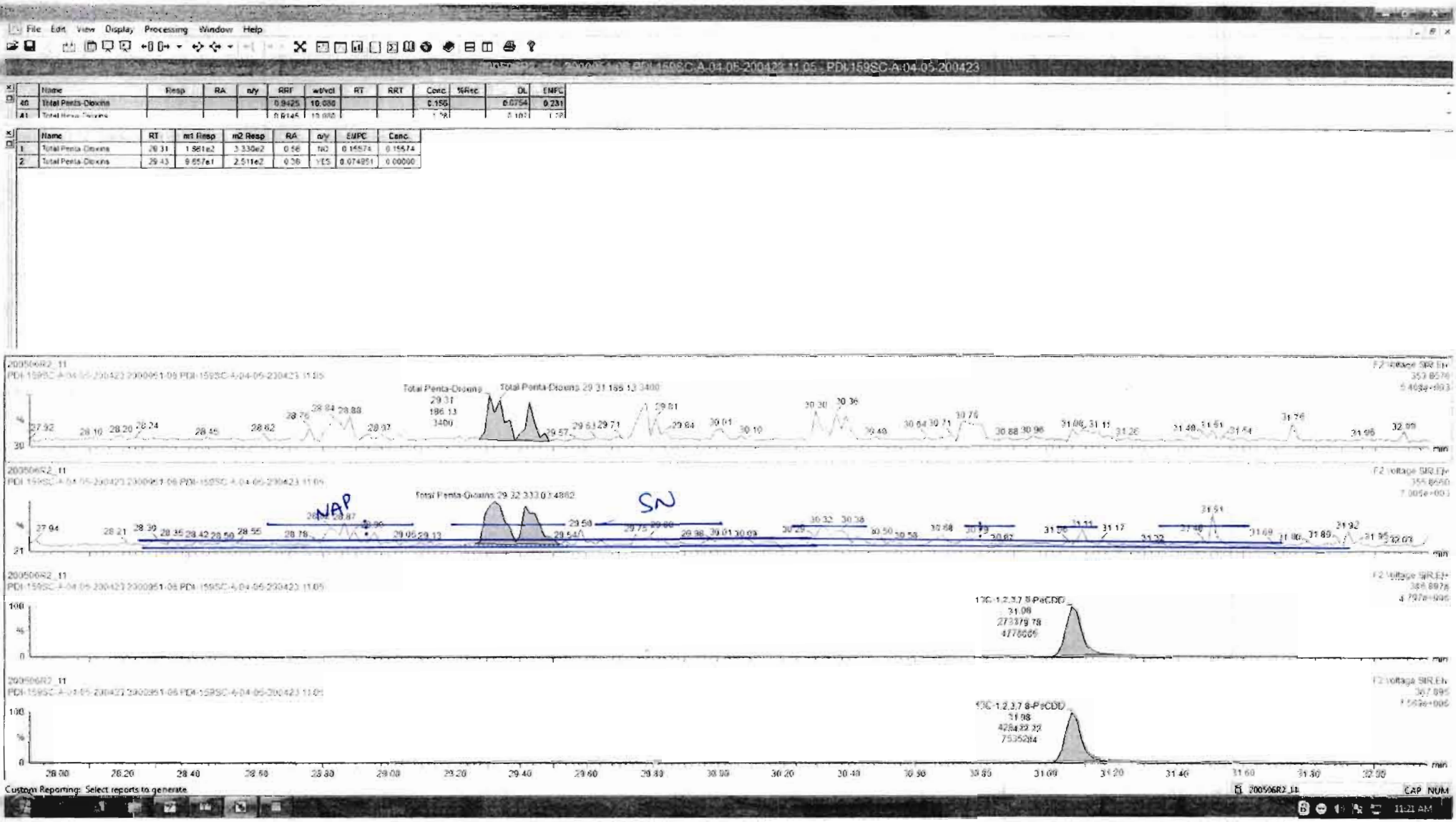
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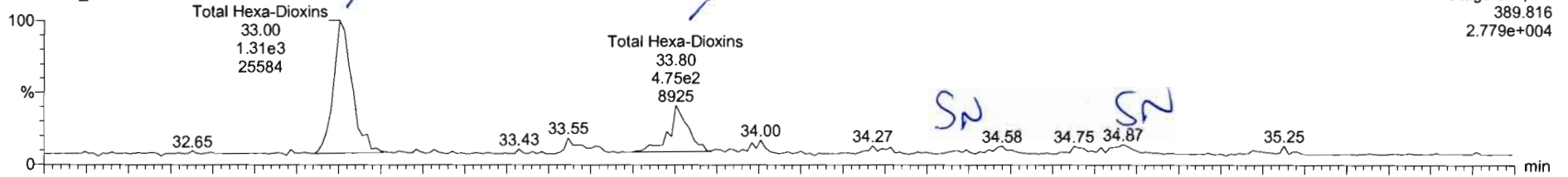
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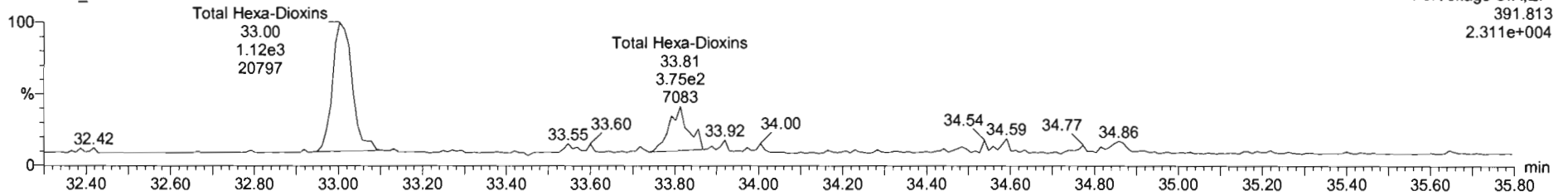
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1,2,3,4,7,8-HxCDD

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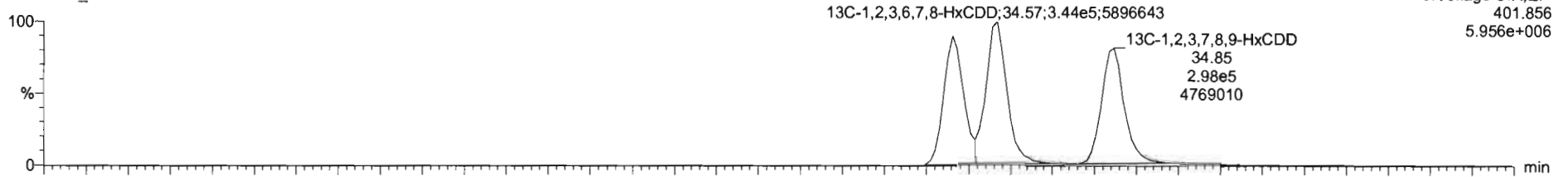


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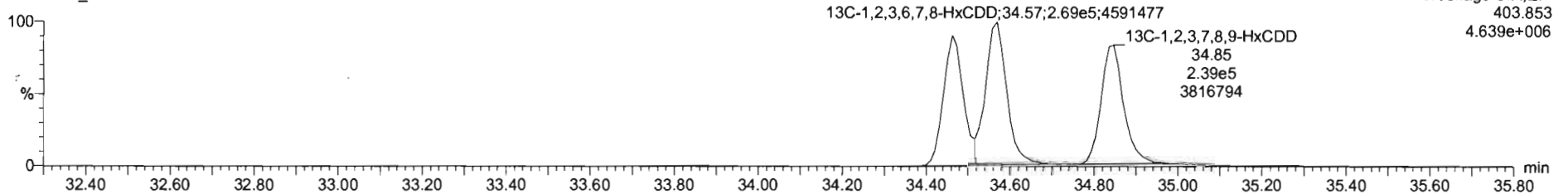


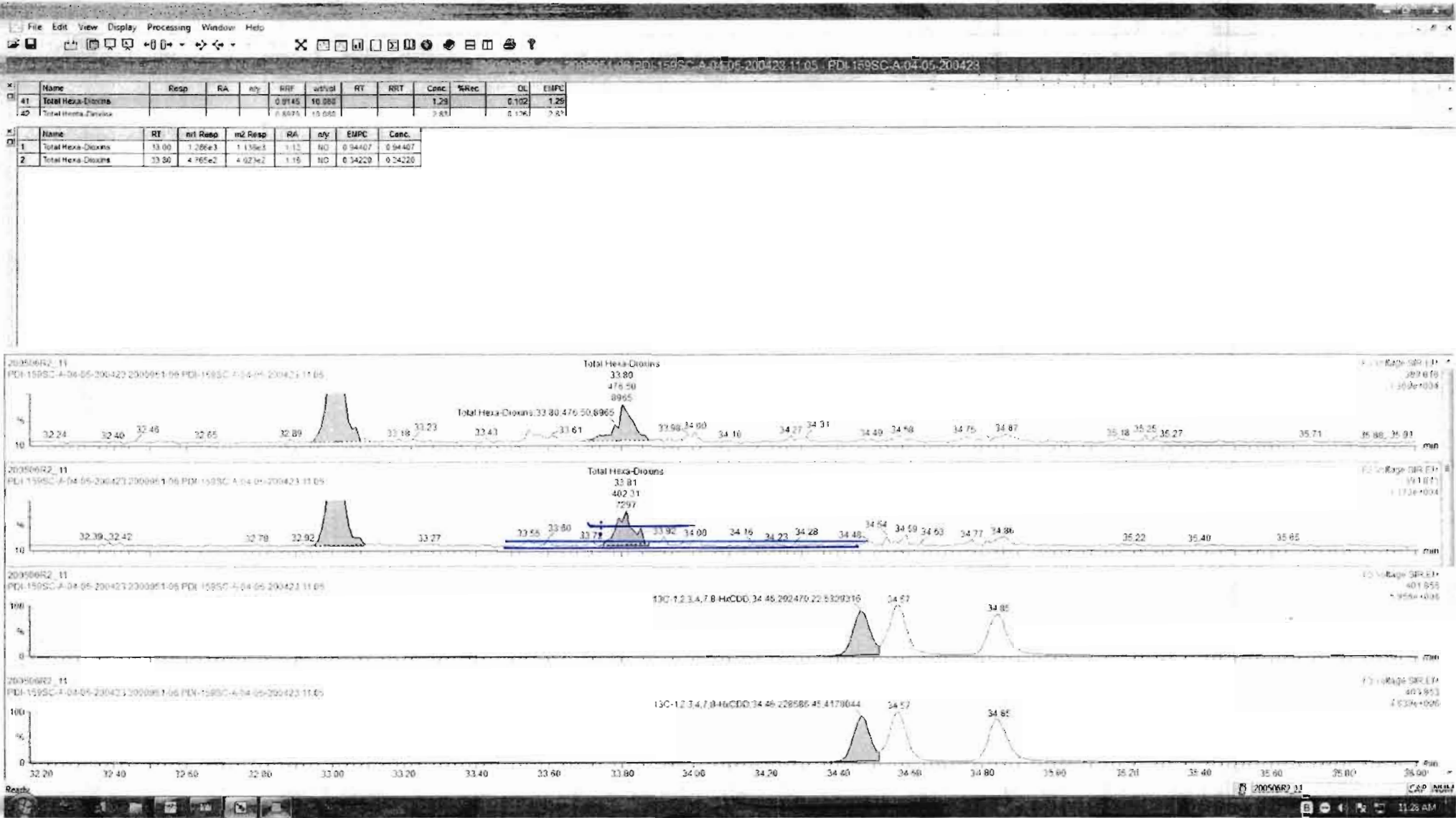
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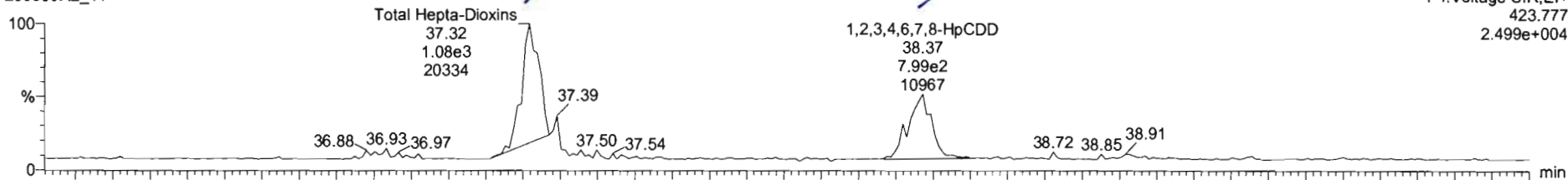
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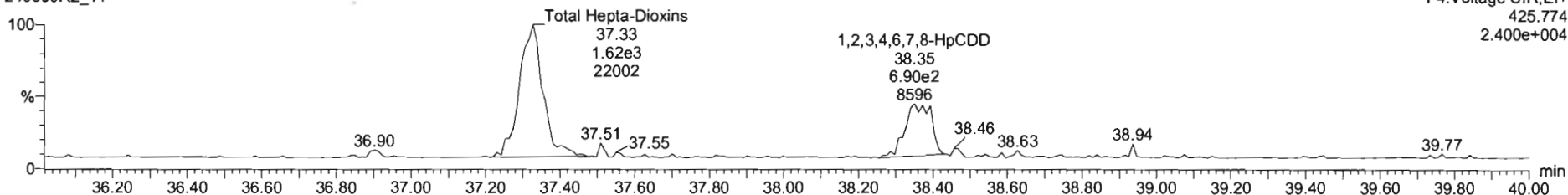
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1,2,3,4,6,7,8-HpCDD

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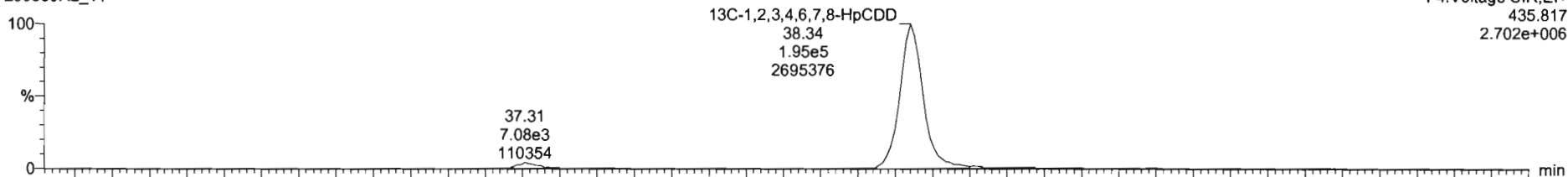


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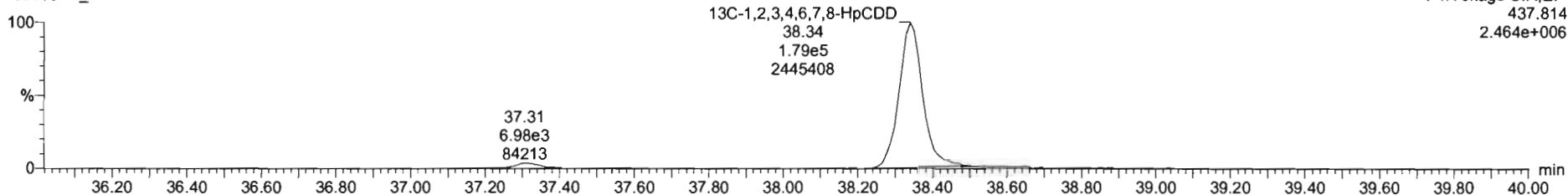


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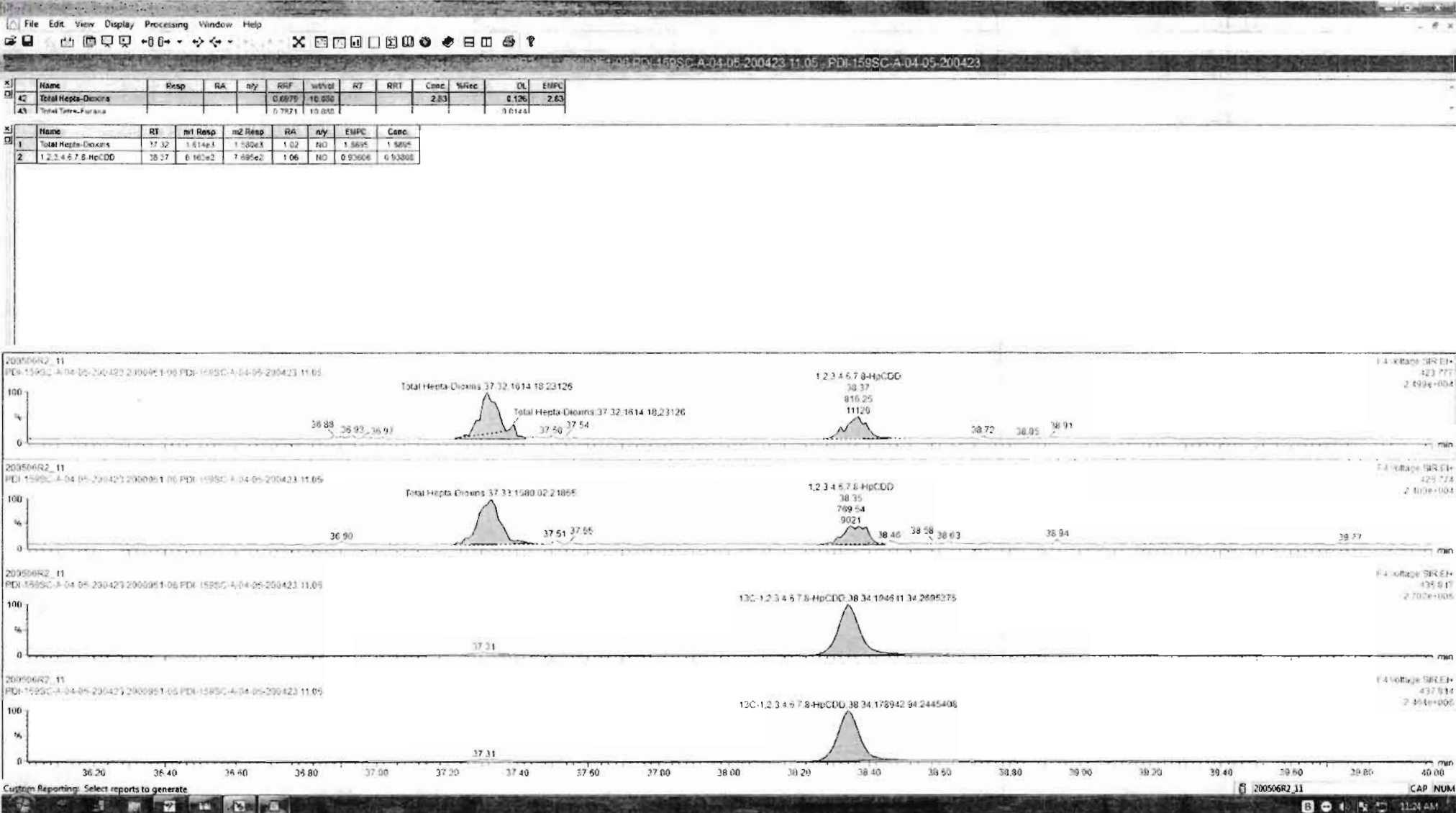
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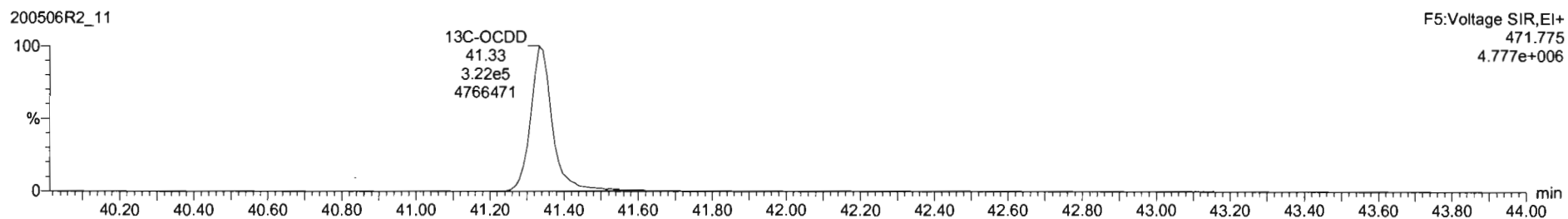
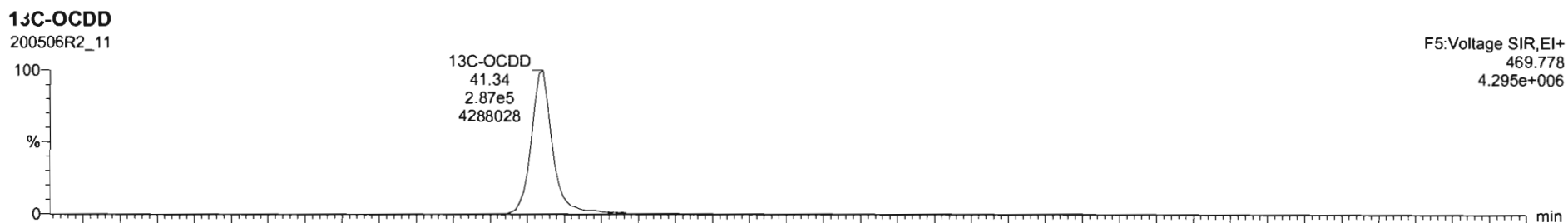
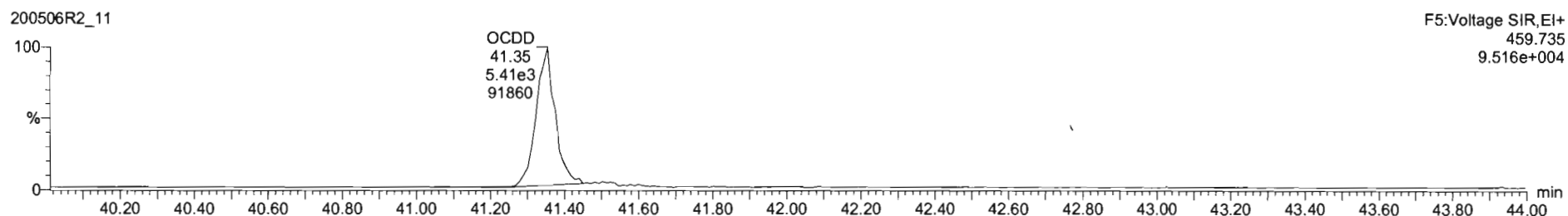
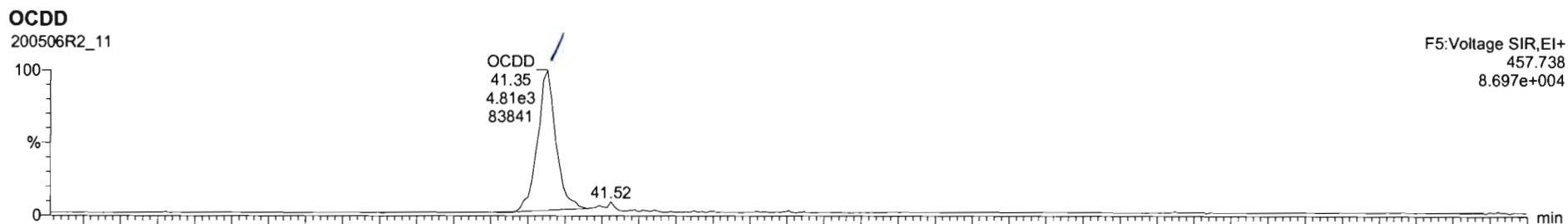




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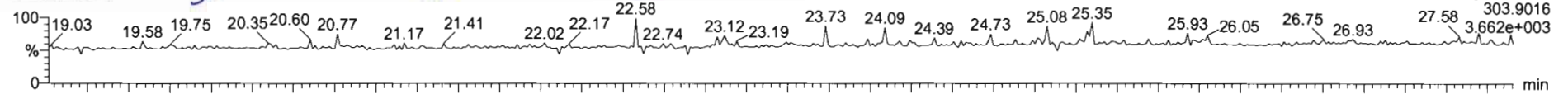
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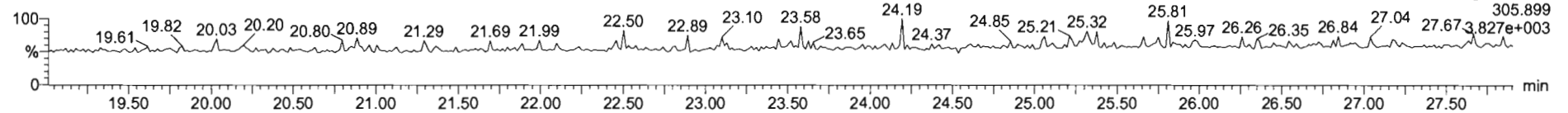
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**2,3,7,8-TCDF**

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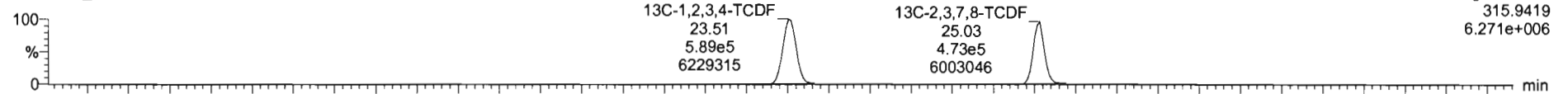


200506R2\_11

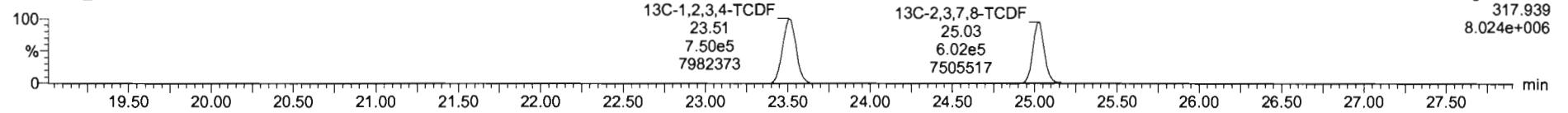


**13C-2,3,7,8-TCDF**

200506R2\_11

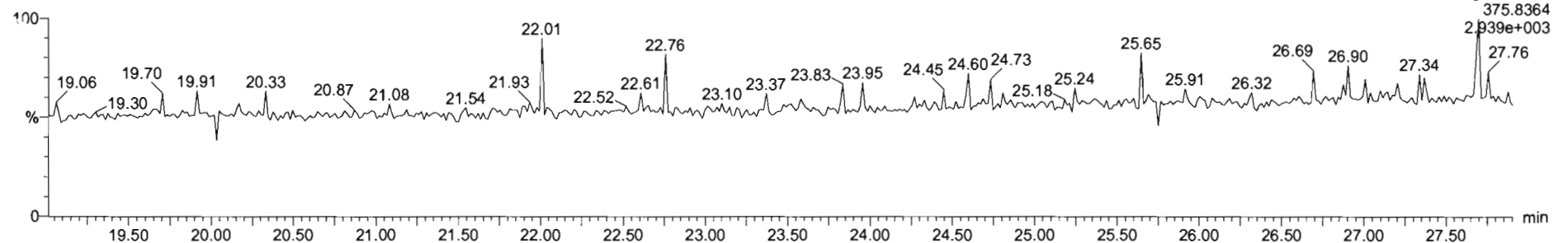


200506R2\_11



**DPE1**

200506R2\_11



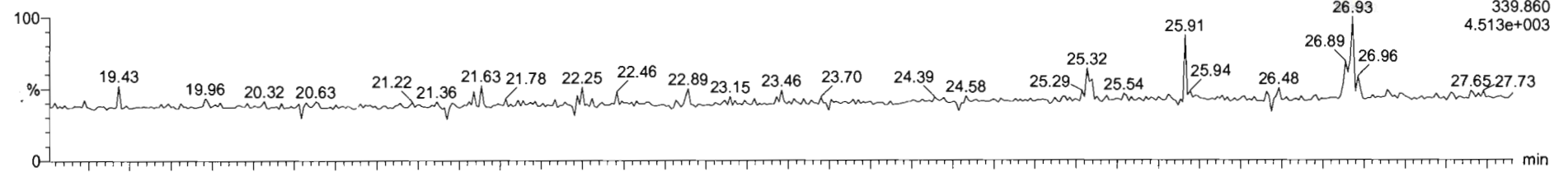
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Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

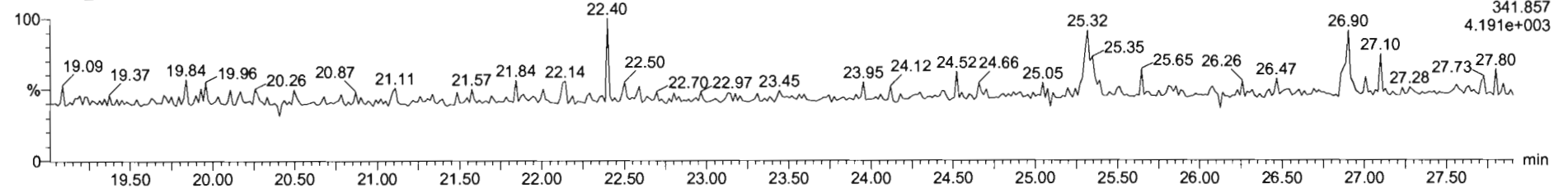
Name: 200506R2\_11, Date: 06-May-2020, Time: 21:19:47, ID: 2000951-06 PDI-159SC-A-04-05-200423 11.05, Description: PDI-159SC-A-04-05-200423

1st Func. Penta-Furans

200506R2\_11

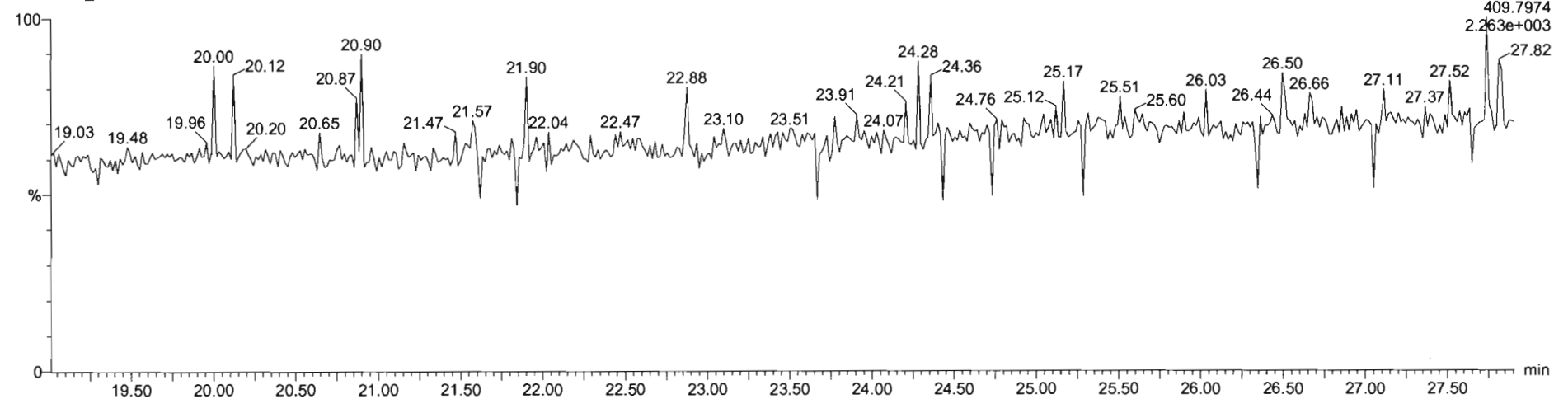


200506R2\_11



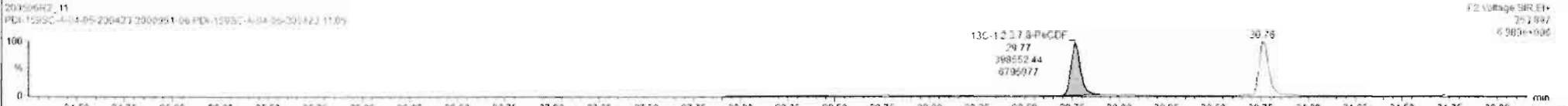
DPE6

200506R2\_11



ID	Name	Resp	RA	nY	RRT	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
44	1st Func. Penta-Furans				0.9102	10.000			0.0428		0.00903	0.0428
45	Total Penta-Furans				0.9107	10.000					0.0184	

ID	Name	RT	n1 Resp	n2 Resp	RA	nY	EMPC	Conc.
1	1st Func. Penta-Furans	26.93	1.106e2	0.261e1	1.44	NO	0.642754	0.042754

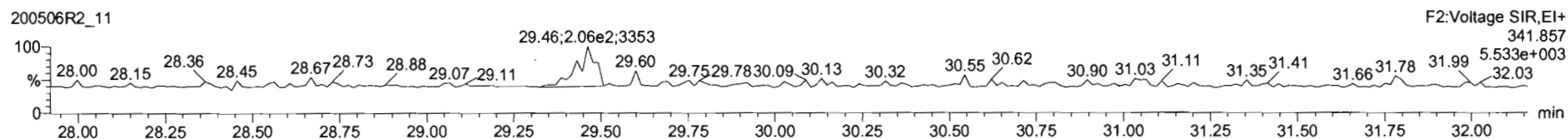
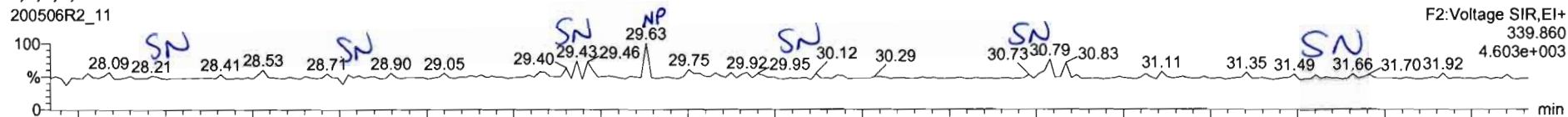


Dataset: Untitled

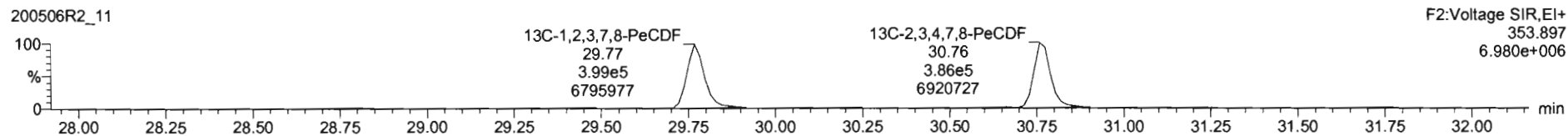
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Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

Name: 200506R2\_11, Date: 06-May-2020, Time: 21:19:47, ID: 2000951-06 PDI-159SC-A-04-05-200423 11.05, Description: PDI-159SC-A-04-05-200423

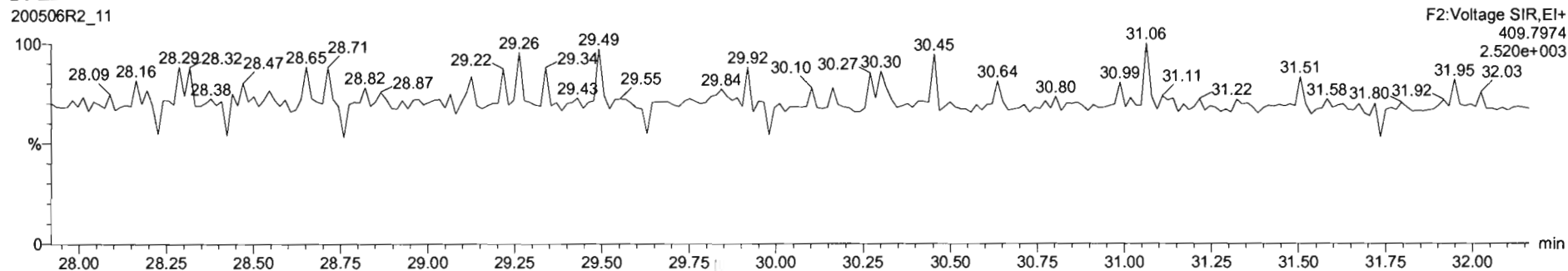
**1,2,3,7,8-PeCDF**



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



**DPE2**



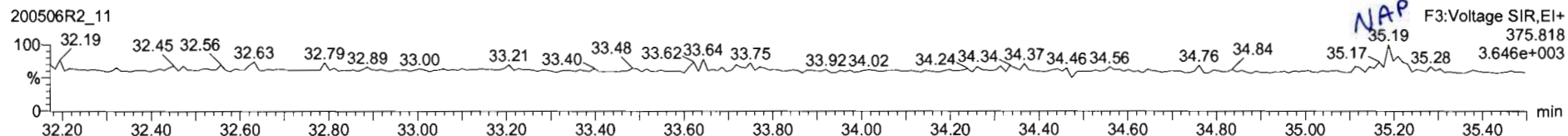
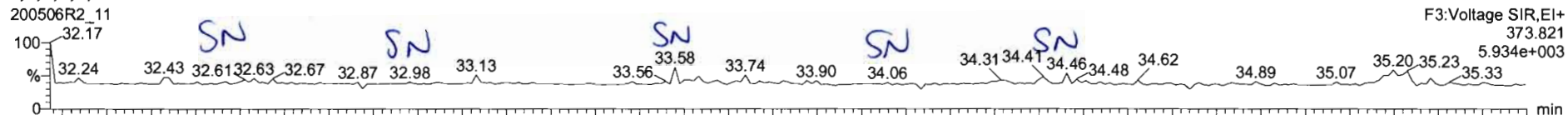
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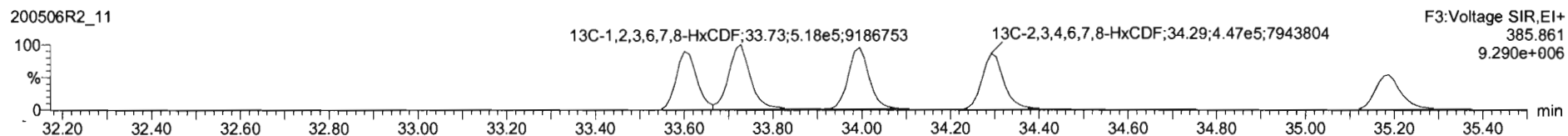
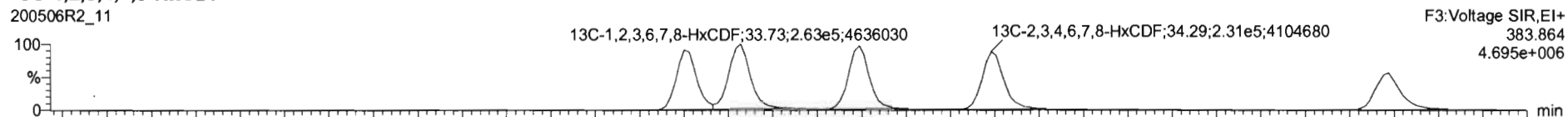
Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

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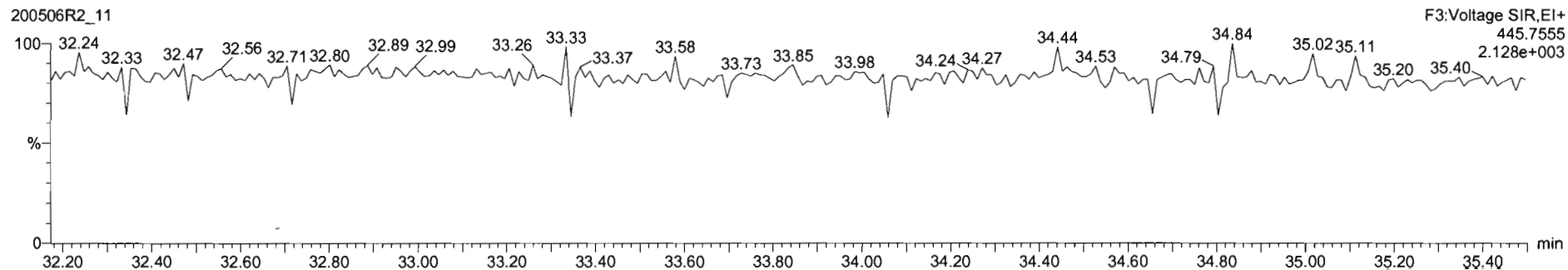
**1,2,3,4,7,8-HxCDF**



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



**DPE3**



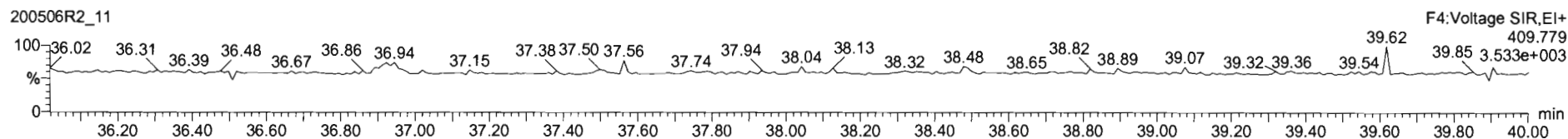
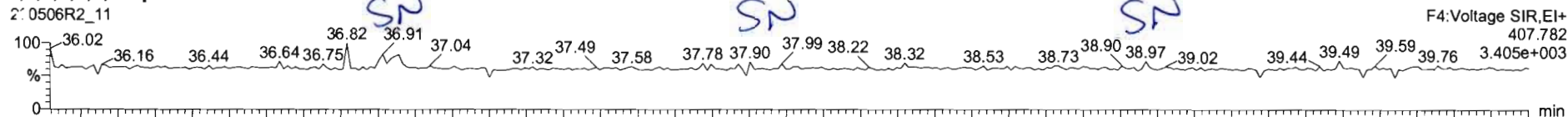
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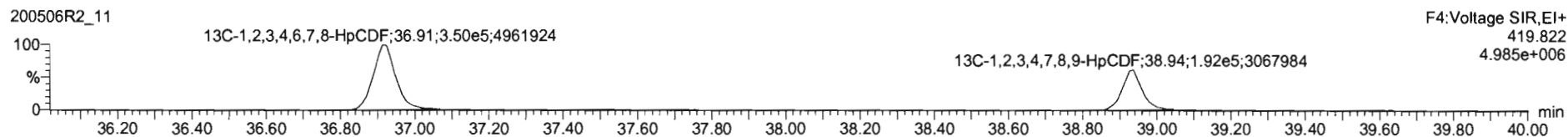
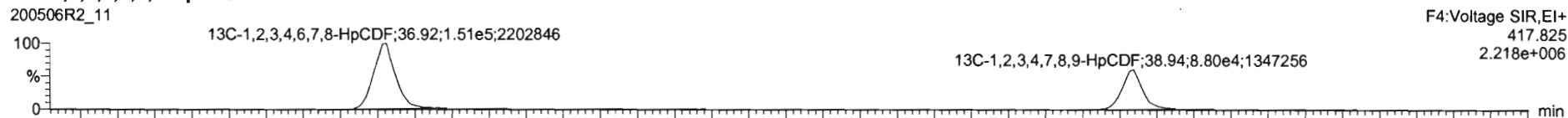
Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

Name: 200506R2\_11, Date: 06-May-2020, Time: 21:19:47, ID: 2000951-06 PDI-159SC-A-04-05-200423 11.05, Description: PDI-159SC-A-04-05-200423

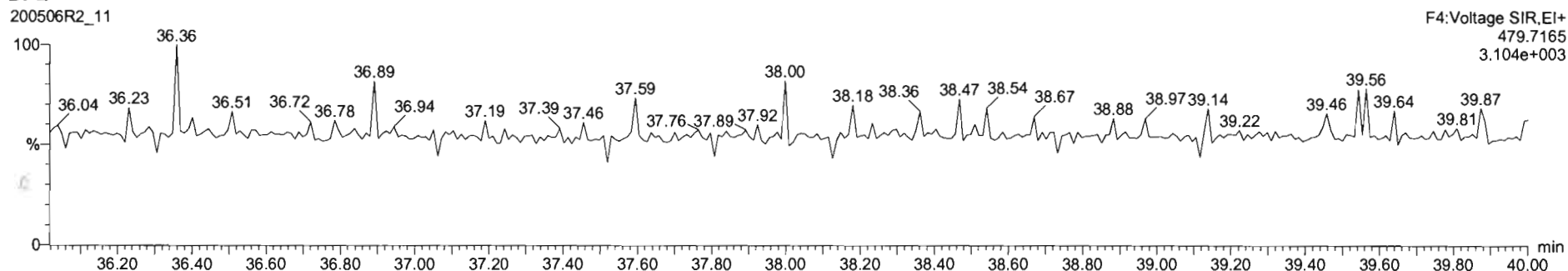
1,2,3,4,6,7,8-HpCDF



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



DPE4

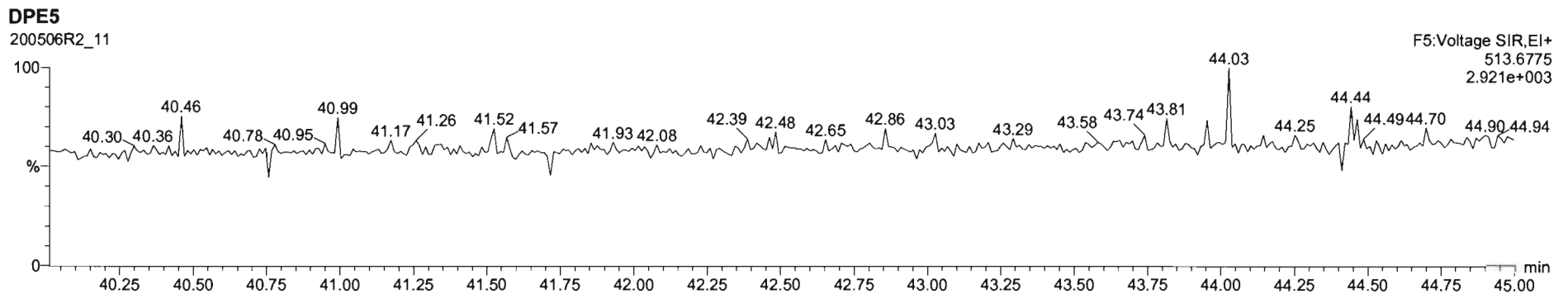
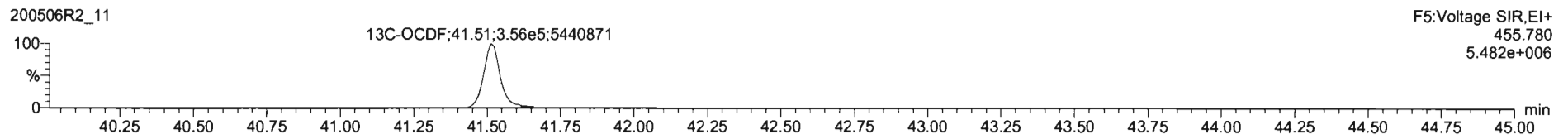
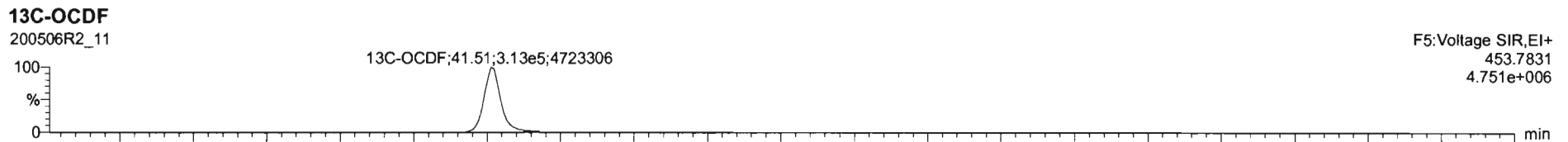
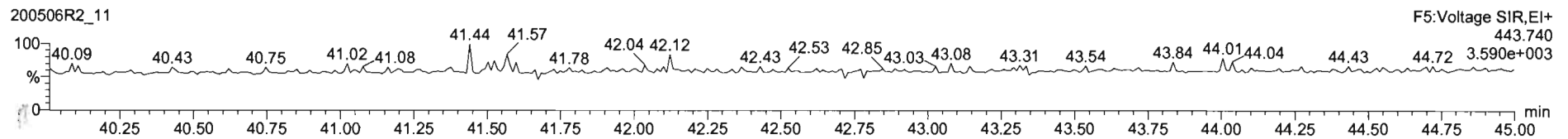
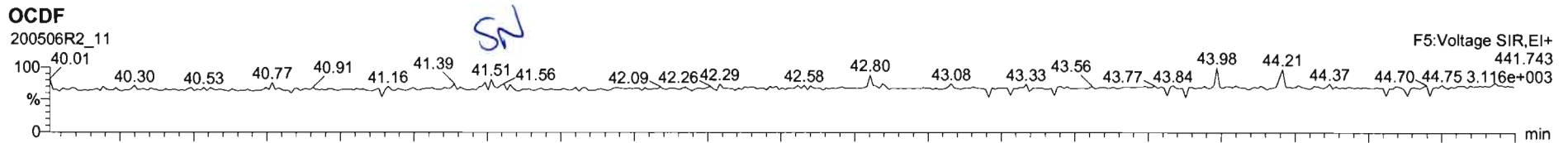




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Last Altered: Thursday, May 07, 2020 7:18:10 AM Pacific Daylight Time  
Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

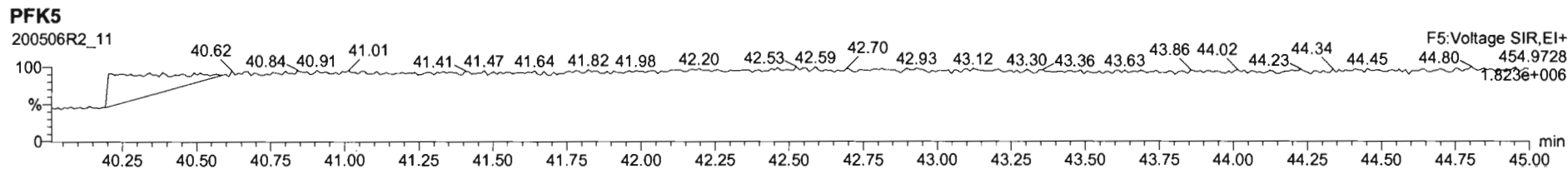
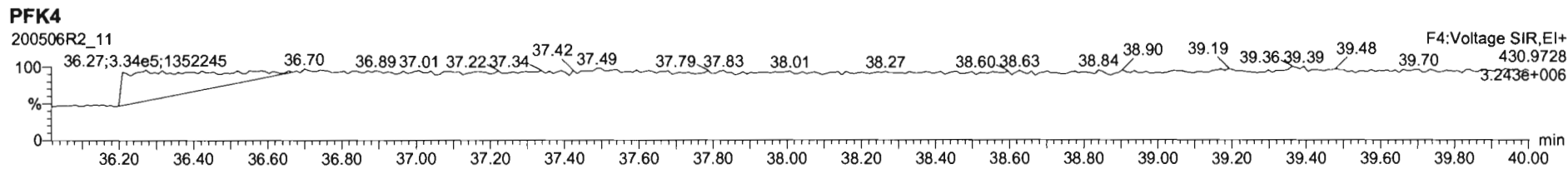
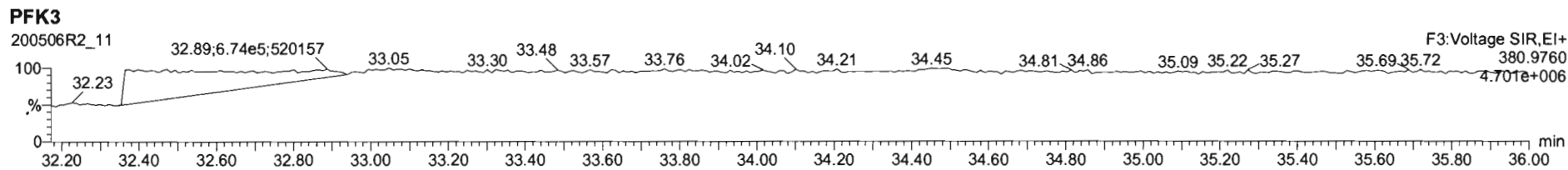
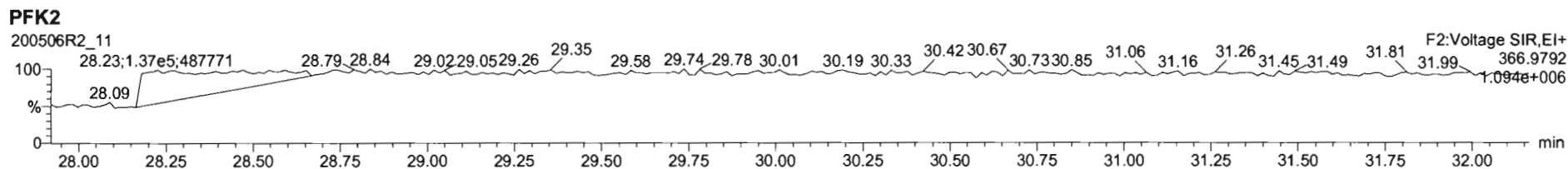
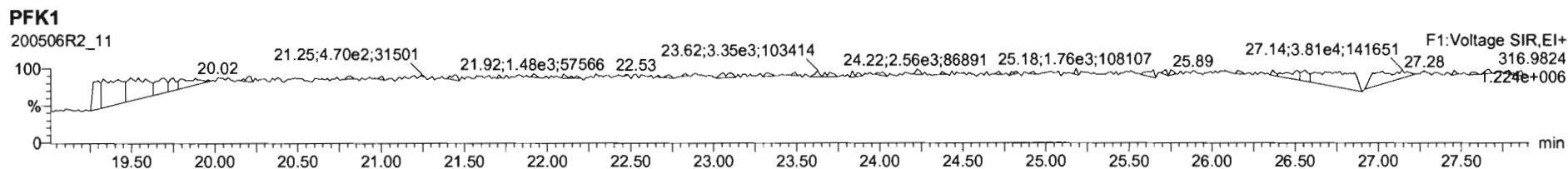
Name: 200506R2\_11, Date: 06-May-2020, Time: 21:19:47, ID: 2000951-06 PDI-159SC-A-04-05-200423 11.05, Description: PDI-159SC-A-04-05-200423



Dataset: Untitled

Last Altered: Thursday, May 07, 2020 7:18:10 AM Pacific Daylight Time  
Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

Name: 200506R2\_11, Date: 06-May-2020, Time: 21:19:47, ID: 2000951-06 PDI-159SC-A-04-05-200423 11.05, Description: PDI-159SC-A-04-05-200423



Dataset: U:\VG12.PRO\Results\200506R2\200506R2-12.qld

Last Altered: Thursday, May 07, 2020 11:06:02 AM Pacific Daylight Time  
Printed: Thursday, May 07, 2020 11:39:28 AM Pacific Daylight Time

*GRB 05/07/2020*

*CT 05/11/2020*

Method: Untitled 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200506R2\_12, Date: 06-May-2020, Time: 22:05:59, ID: 2000951-07 PDI-159SC-A-05-06-200423 11.25, Description: PDI-159SC-A-05-06-200423

#	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	2.73e3	0.69	NO	0.947	10.092	26.006	25.99	1.001	1.001	0.63428		0.0789	0.634
2	2 1,2,3,7,8-PeCDD	9.42e2	0.54	NO	0.942	10.092	31.086	31.08	1.001	1.000	0.29721		0.104	0.297
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.092	34.462		1.000				0.141	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.092	34.548		1.000				0.147	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.092	34.835		1.000				0.178	
6	6 1,2,3,4,6,7,8-HpCDD	1.39e3	1.10	NO	0.898	10.092	38.329	38.34	1.000	1.001	0.82368		0.233	0.824
7	7 OCDD	1.25e4	0.96	NO	0.933	10.092	41.332	41.34	1.000	1.000	9.1940		0.115	9.19
8	8 2,3,7,8-TCDF			NO	0.787	10.092	25.057		1.001				0.0368	
9	9 1,2,3,7,8-PeCDF			NO	0.910	10.092	29.773		1.001				0.0454	
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.092	30.774		1.001				0.0450	
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	10.092	33.590		1.000				0.0514	
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.092	33.717		1.000				0.0478	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.092	34.316		1.001				0.0574	
14	14 1,2,3,7,8,9-HxCDF			NO	0.864	10.092	35.166		1.000				0.0898	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.871	10.092	36.939		1.001				0.0661	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.092	38.925		1.000				0.0856	
17	17 OCDF			NO	0.802	10.092	41.503		1.000				0.0867	
18	18 13C-2,3,7,8-TCDD	9.01e5	0.79	NO	1.16	10.092	25.969	25.98	1.026	1.027	172.35	87.0	0.234	
19	19 13C-1,2,3,7,8-PeCDD	6.66e5	0.63	NO	0.847	10.092	31.049	31.06	1.227	1.228	174.38	88.0	0.247	
20	20 13C-1,2,3,4,7,8-HxCDD	5.05e5	1.27	NO	0.750	10.092	34.452	34.45	1.014	1.014	182.24	92.0	0.547	
21	21 13C-1,2,3,6,7,8-HxCDD	5.91e5	1.24	NO	0.963	10.092	34.564	34.55	1.017	1.017	166.01	83.8	0.426	
22	22 13C-1,2,3,7,8,9-HxCDD	5.21e5	1.25	NO	0.838	10.092	34.833	34.83	1.025	1.025	168.37	85.0	0.490	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.71e5	1.09	NO	0.641	10.092	38.318	38.32	1.128	1.128	156.63	79.0	0.674	
24	24 13C-OCDD	5.77e5	0.89	NO	0.586	10.092	41.308	41.33	1.216	1.217	266.42	67.2	0.459	
25	25 13C-2,3,7,8-TCDF	1.18e6	0.78	NO	1.03	10.092	25.030	25.03	0.989	0.989	172.60	87.1	0.319	
26	26 13C-1,2,3,7,8-PeCDF	1.01e6	1.59	NO	0.845	10.092	29.741	29.75	1.176	1.176	179.34	90.5	0.449	
27	27 13C-2,3,4,7,8-PeCDF	9.75e5	1.58	NO	0.814	10.092	30.731	30.74	1.215	1.215	180.53	91.1	0.466	
28	28 13C-1,2,3,4,7,8-HxCDF	6.37e5	0.51	NO	1.00	10.092	33.593	33.59	0.989	0.989	171.42	86.5	0.686	
29	29 13C-1,2,3,6,7,8-HxCDF	7.51e5	0.51	NO	1.14	10.092	33.715	33.71	0.992	0.992	178.80	90.2	0.606	
30	30 13C-2,3,4,6,7,8-HxCDF	6.44e5	0.50	NO	1.02	10.092	34.282	34.28	1.009	1.009	170.34	86.0	0.674	
31	31 13C-1,2,3,7,8,9-HxCDF	4.99e5	0.50	NO	0.845	10.092	35.172	35.17	1.035	1.035	159.97	80.7	0.816	

Dataset: U:\VG12.PRO\Results\200506R2\200506R2-12.qld

Last Altered: Thursday, May 07, 2020 11:06:02 AM Pacific Daylight Time

Printed: Thursday, May 07, 2020 11:39:28 AM Pacific Daylight Time

Name: 200506R2\_12, Date: 06-May-2020, Time: 22:05:59, ID: 2000951-07 PDI-159SC-A-05-06-200423 11.25, Description: PDI-159SC-A-05-06-200423

#	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	4.68e5	0.43	NO	0.771	10.092	36.901	36.90	1.086	1.086	164.35	82.9	0.649	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.78e5	0.43	NO	0.482	10.092	38.909	38.92	1.145	1.146	155.97	78.7	1.04	
34	34 13C-OCDF	6.59e5	0.86	NO	0.669	10.092	41.478	41.50	1.221	1.222	266.66	67.3	0.431	
35	35 37Cl-2,3,7,8-TCDD	3.46e5			1.10	10.092	25.999	25.99	1.028	1.027	69.768	88.0	0.0943	
36	36 13C-1,2,3,4-TCDD	8.94e5	0.79	NO	1.00	10.092	25.350	25.30	1.000	1.000	198.18	100	0.271	
37	37 13C-1,2,3,4-TCDF	1.31e6	0.79	NO	1.00	10.092	23.560	23.53	1.000	1.000	198.18	100	0.330	
38	38 13C-1,2,3,4,6,9-HxCDF	7.32e5	0.51	NO	1.00	10.092	34.000	33.97	1.000	1.000	198.18	100	0.689	
39	39 Total Tetra-Dioxins				0.947	10.092	24.620		0.000		2.2431		0.0789	3.72
40	40 Total Penta-Dioxins				0.942	10.092	29.960		0.000		1.9511		0.104	2.36
41	41 Total Hexa-Dioxins				0.915	10.092	33.635		0.000		1.2645		0.162	1.26
42	42 Total Hepta-Dioxins				0.898	10.092	37.640		0.000		2.6001		0.233	2.60
43	43 Total Tetra-Furans				0.787	10.092	23.610		0.000				0.0181	
44	44 1st Func. Penta-Furans				0.910	10.092	27.090		0.000				0.0103	
45	45 Total Penta-Furans				0.910	10.092	29.275		0.000				0.0216	
46	46 Total Hexa-Furans				0.922	10.092	33.555		0.000				0.0266	
47	47 Total Hepta-Furans				0.871	10.092	37.835		0.000				0.0336	

Dataset: U:\VG12.PRO\Results\200506R2\200506R2-12.qld

Last Altered: Thursday, May 07, 2020 11:06:02 AM Pacific Daylight Time  
 Printed: Thursday, May 07, 2020 11:39:28 AM Pacific Daylight Time

Method: Untitled 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200506R2\_12, Date: 06-May-2020, Time: 22:05:59, ID: 2000951-07 PDI-159SC-A-05-06-200423 11.25, Description: PDI-159SC-A-05-06-200423

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.25	3.326e3	4.305e3	3.343e2	3.491e2	0.96	YES	0.000e0	0.00000	0.14300	0.0789
2	Total Tetra-Dioxins	22.83	4.721e3	7.177e3	3.923e2	4.378e2	0.90	YES	0.000e0	0.00000	0.18000	0.0789
3	Total Tetra-Dioxins	23.72	5.237e3	8.742e3	4.290e2	5.923e2	0.72	NO	1.021e3	0.23702	0.23700	0.0789
4	Total Tetra-Dioxins	24.01	4.184e3	4.168e3	3.753e2	2.499e2	1.50	YES	0.000e0	0.00000	0.10300	0.0789
5	Total Tetra-Dioxins	24.07	3.154e3	6.293e3	1.666e2	3.411e2	0.49	YES	0.000e0	0.00000	0.089000	0.0789
6	Total Tetra-Dioxins	24.21	7.780e3	1.014e4	7.169e2	8.591e2	0.83	NO	0.000e0	0.00000	0.36600	0.0789
7	Total Tetra-Dioxins	24.45	2.333e3	3.089e3	1.800e2	2.243e2	0.80	NO	4.043e2	0.093822	0.094000	0.0789
8	Total Tetra-Dioxins	24.73	3.107e3	3.171e3	2.758e2	2.654e2	1.04	YES	0.000e0	0.00000	0.10900	0.0789
9	Total Tetra-Dioxins	24.91	1.028e4	1.189e4	6.985e2	9.219e2	0.76	NO	1.620e3	0.37609	0.37600	0.0789
10	Total Tetra-Dioxins	25.27	1.005e4	6.317e3	5.023e2	5.178e2	0.97	YES	0.000e0	0.00000	0.21300	0.0789
11	Total Tetra-Dioxins	25.69	3.637e3	4.732e3	3.157e2	3.726e2	0.85	NO	0.000e0	0.00000	0.16000	0.0789
12	Total Tetra-Dioxins	25.85	3.889e3	4.278e3	2.049e2	2.744e2	0.75	NO	0.000e0	0.00000	0.11100	0.0789
13	2,3,7,8-TCDD	25.99	1.630e4	2.397e4	1.111e3	1.622e3	0.89	NO	2.733e3	0.63428	0.63400	0.0789
14	Total Tetra-Dioxins	26.35	1.427e4	2.091e4	1.066e3	1.375e3	0.77	NO	2.441e3	0.56664	0.56700	0.0789
15	Total Tetra-Dioxins	26.99	1.100e4	1.168e4	6.419e2	8.024e2	0.80	NO	1.444e3	0.33519	0.33500	0.0789

**Penta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.84	6.929e3	7.309e3	4.595e2	6.635e2	0.69	NO	1.123e3	0.35441	0.35400	0.104
2	Total Penta-Dioxins	29.31	9.835e3	1.163e4	4.779e2	6.914e2	0.69	NO	1.169e3	0.36901	0.36900	0.104
3	Total Penta-Dioxins	29.81	1.939e3	2.508e3	8.122e1	1.355e2	0.60	NO	2.167e2	0.068401	0.068000	0.104
4	Total Penta-Dioxins	30.00	6.246e3	6.877e3	2.510e2	5.093e2	0.49	YES	0.000e0	0.00000	0.20500	0.104
5	Total Penta-Dioxins	30.09	6.487e3	1.052e4	3.366e2	3.885e2	0.87	YES	0.000e0	0.00000	0.20000	0.104
6	Total Penta-Dioxins	30.35	5.693e3	1.139e4	5.296e2	9.529e2	0.56	NO	1.482e3	0.46786	0.46800	0.104
7	1,2,3,7,8-PeCDD	31.08	5.155e3	8.746e3	3.313e2	6.104e2	0.54	NO	9.418e2	0.29721	0.29700	0.104
8	Total Penta-Dioxins	31.19	1.843e3	4.419e3	8.165e1	1.456e2	0.56	NO	2.273e2	0.071729	0.072000	0.104
9	Total Penta-Dioxins	31.48	6.298e3	1.085e4	3.763e2	6.456e2	0.58	NO	1.022e3	0.32251	0.32300	0.104

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Name: 200506R2\_12, Date: 06-May-2020, Time: 22:05:59, ID: 2000951-07 PDI-159SC-A-05-06-200423 11.25, Description: PDI-159SC-A-05-06-200423

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.98	1.933e4	1.378e4	1.156e3	8.284e2	1.39	NO	1.984e3	0.79763	0.79800	0.162
2	Total Hexa-Dioxins	33.80	8.497e3	7.918e3	6.636e2	4.977e2	1.33	NO	1.161e3	0.46686	0.46700	0.162

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.33	1.563e4	1.752e4	1.434e3	1.555e3	0.92	NO	2.989e3	1.7764	1.7760	0.233
2	1,2,3,4,6,7,8-HpCDD	38.34	9.094e3	9.679e3	7.246e2	6.612e2	1.10	NO	1.386e3	0.82368	0.82400	0.233

**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												

**Penta-Furans**

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

**Hexa-Furans**

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

**Hepta-Furans**

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

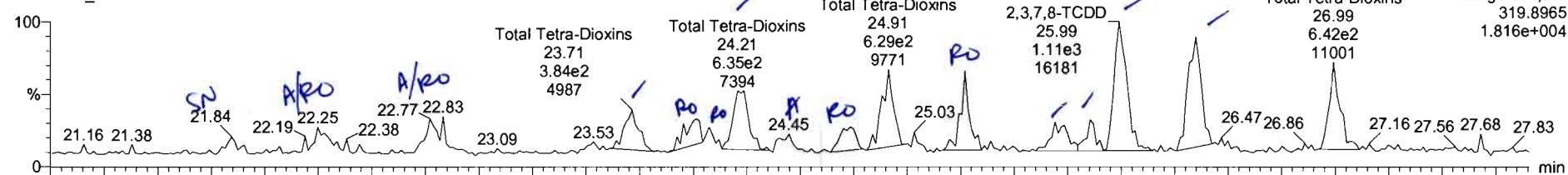
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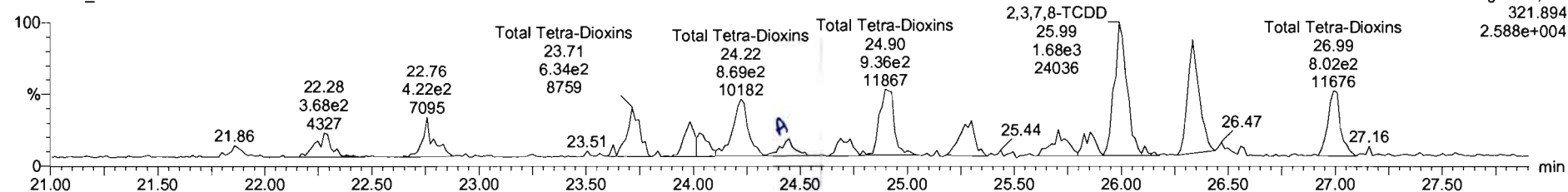
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2,3,7,8-TCDD

200506R2\_12

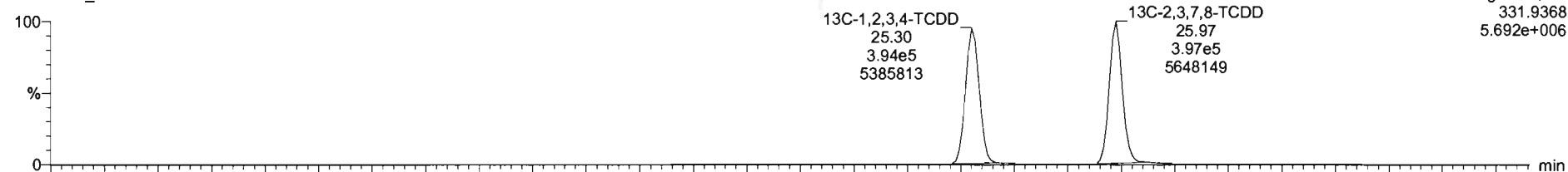


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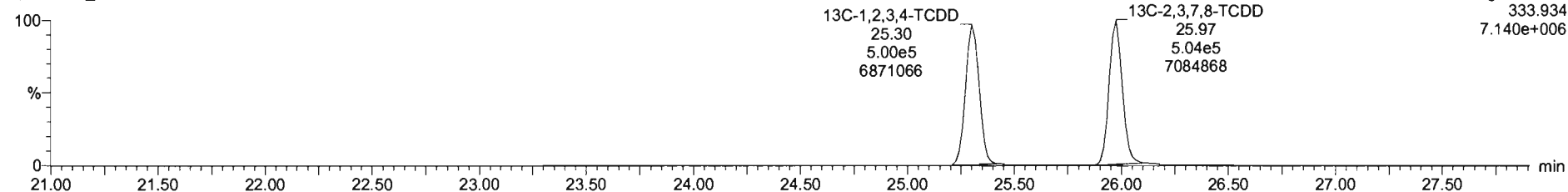


13C-2,3,7,8-TCDD

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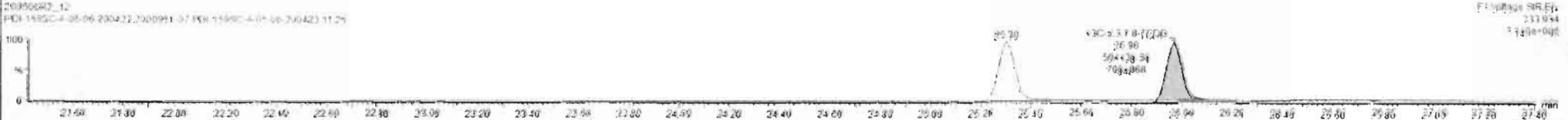
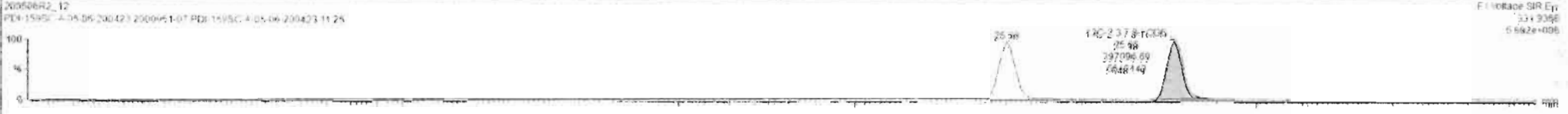
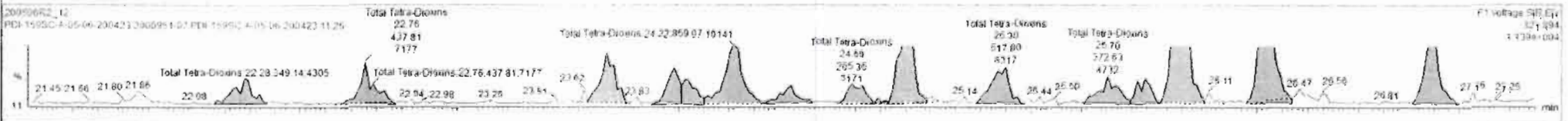
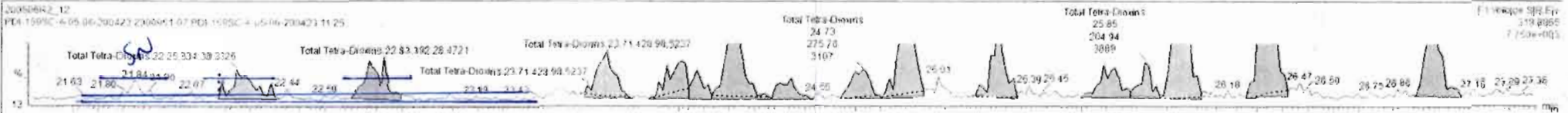


200506R2\_12



Name	Resp	RA	n1y	RRF	w/wol	RT	RRT	Conc.	%Rec	DL	EMPC
35 Total Tetra-Dioxins				0.9475	10.0%			2.24		0.0789	3.72

Name	RT	m1 Resp	m2 Resp	RA	n1y	EMPC	Conc.
1 Total Tetra-Dioxins	22.25	3.343e2	3.491e2	0.96	YES	0.14343	0.06000
2 Total Tetra-Dioxins	22.63	3.903e2	4.375e2	0.90	YES	0.17965	0.00000
3 Total Tetra-Dioxins	23.71	4.290e2	5.923e2	0.72	NO	0.23702	0.23702
4 Total Tetra-Dioxins	24.01	3.753e2	2.499e2	1.50	YES	0.10267	0.06000
5 Total Tetra-Dioxins	24.07	1.096e2	3.411e2	0.45	YES	0.088596	0.06000
6 Total Tetra-Dioxins	24.21	7.169e2	8.591e2	0.83	NO	0.35678	0.00000
7 Total Tetra-Dioxins	24.45	1.500e2	2.243e2	0.60	NO	0.093822	0.093822
8 Total Tetra-Dioxins	24.73	2.756e2	2.654e2	1.04	YES	0.10901	0.06000
9 Total Tetra-Dioxins	24.91	8.385e2	5.219e2	0.76	NO	0.37609	0.31609
10 Total Tetra-Dioxins	25.27	5.823e2	1.175e2	0.97	YES	0.21271	0.00000
11 Total Tetra-Dioxins	25.68	3.157e2	3.726e2	0.85	NO	0.15974	0.00000
12 Total Tetra-Dioxins	25.85	2.049e2	2.744e2	0.75	NO	0.11124	0.00000
13 2,3,7,8-TCDF	25.99	1.111e2	1.622e2	0.69	NO	0.83428	0.63428
14 Total Tetra-Dioxins	26.35	1.966e2	1.375e2	0.76	NO	0.58664	0.58664





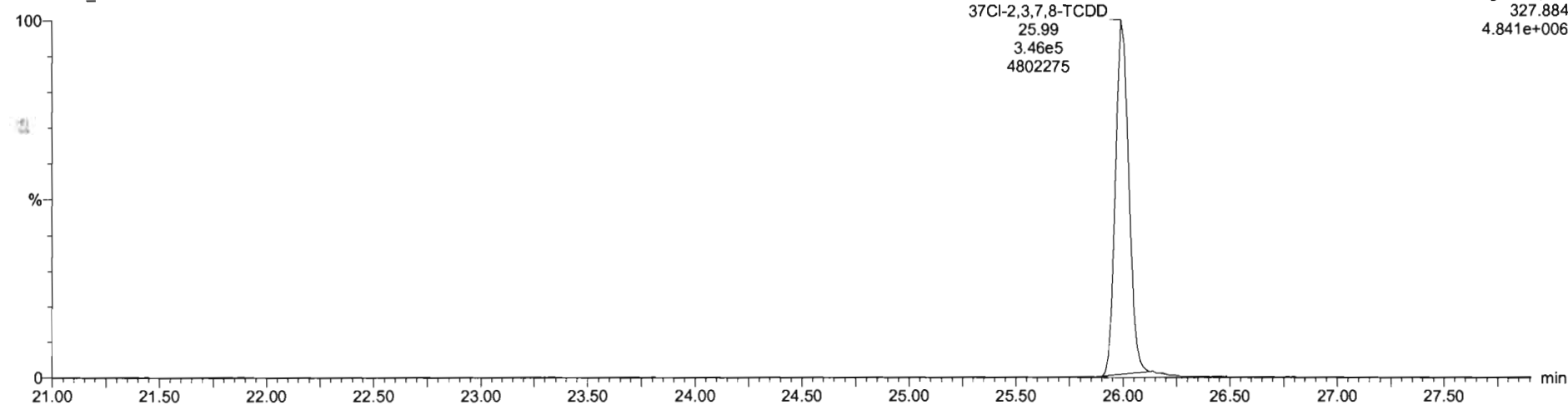
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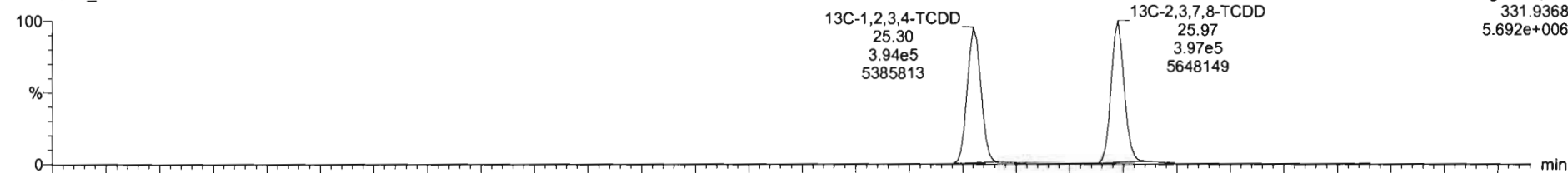
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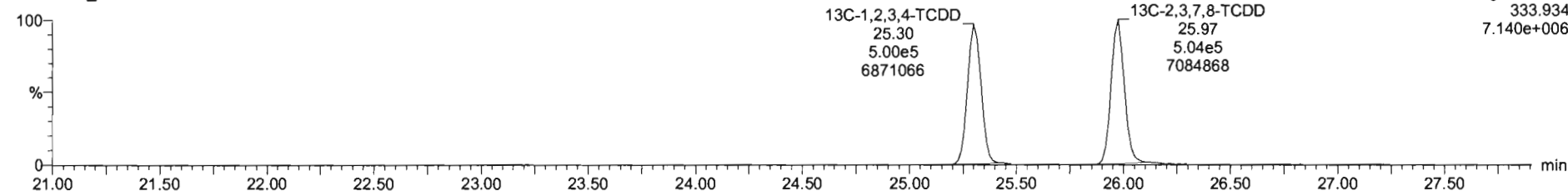


**13C-1,2,3,4-TCDD**

200506R2\_12



200506R2\_12



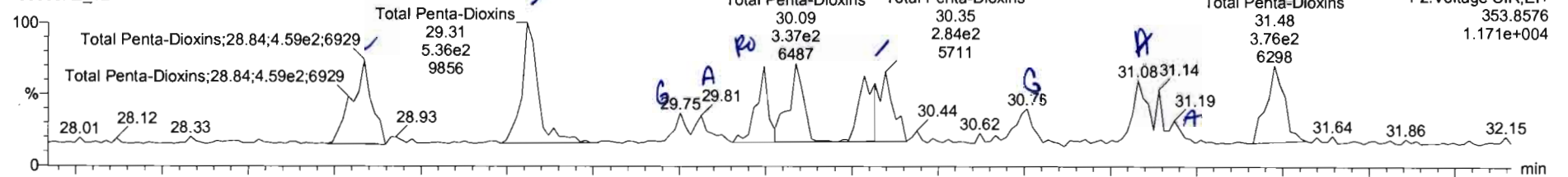
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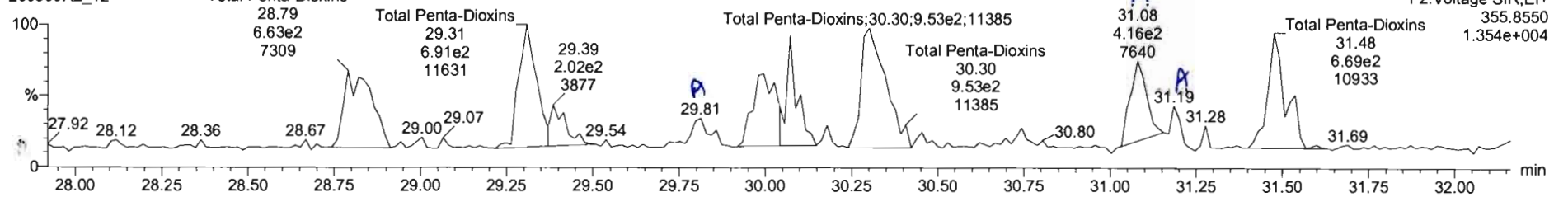
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1,2,3,7,8-PeCDD

200506R2\_12

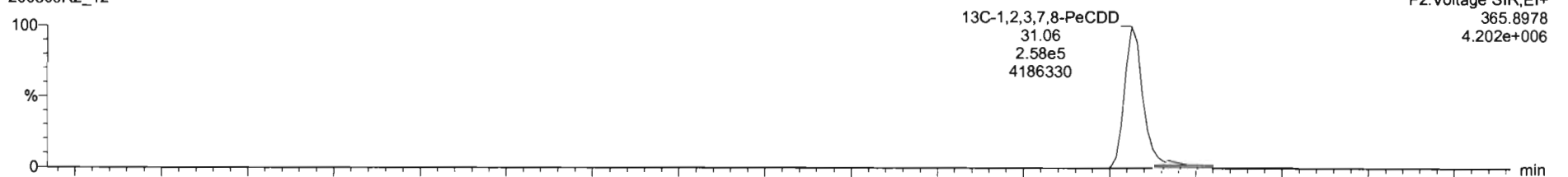


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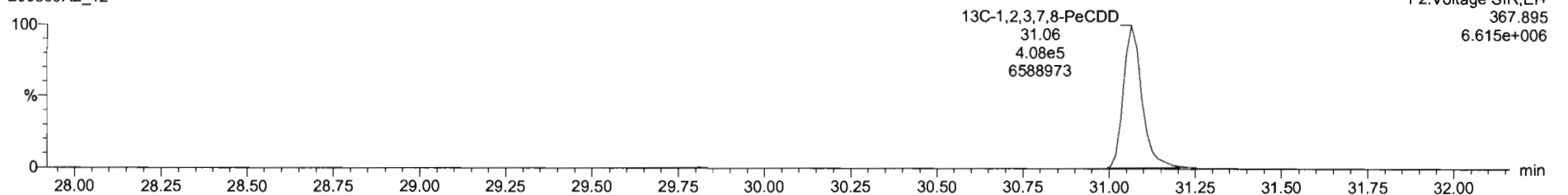


13C-1,2,3,7,8-PeCDD

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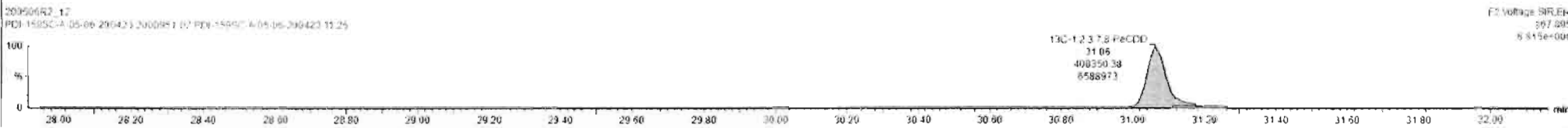
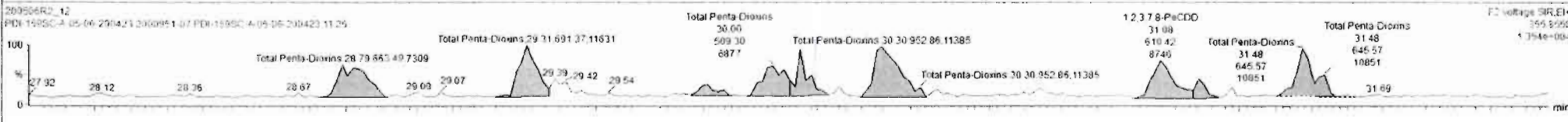
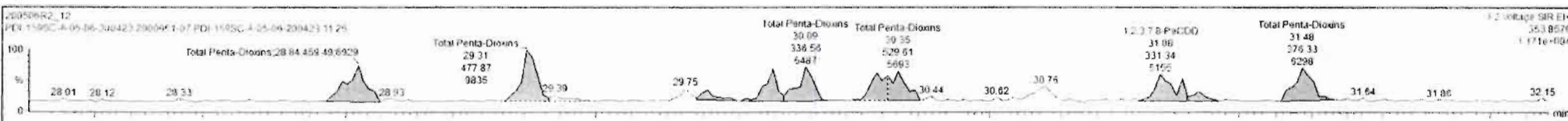


200506R2\_12



Name	Resp	RA	n/y	RRF	wt/wt	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Penta-Dioxins				0.8475	10.892			2.24		0.0739	3.72
40 Total Penta-Dioxins								1.62			5.98

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Dioxins	28.84	4.595e2	5.635e2	0.69	NO	0.35441	0.25441
2 Total Penta-Dioxins	29.31	4.779e2	5.914e2	0.69	NO	0.36901	0.26901
3 Total Penta-Dioxins	29.81	8.122e1	1.355e2	0.60	NO	0.068401	0.088401
4 Total Penta-Dioxins	30.00	2.510e2	5.093e2	0.49	YES	0.20498	0.00000
5 Total Penta-Dioxins	30.09	3.366e2	3.985e2	0.87	YES	0.13906	0.00000
6 Total Penta-Dioxins	30.35	5.298e2	9.529e2	0.58	NO	0.46768	0.48768
7 1,2,3,7,8-PeCDD	31.06	3.313e2	5.104e2	0.54	NO	0.29721	0.29721
8 Total Penta-Dioxins	31.19	6.165e1	1.456e2	0.56	NO	0.071729	0.071729
9 Total Penta-Dioxins	31.48	3.763e2	5.456e2	0.58	NO	0.32251	0.32251



Dataset: Untitled

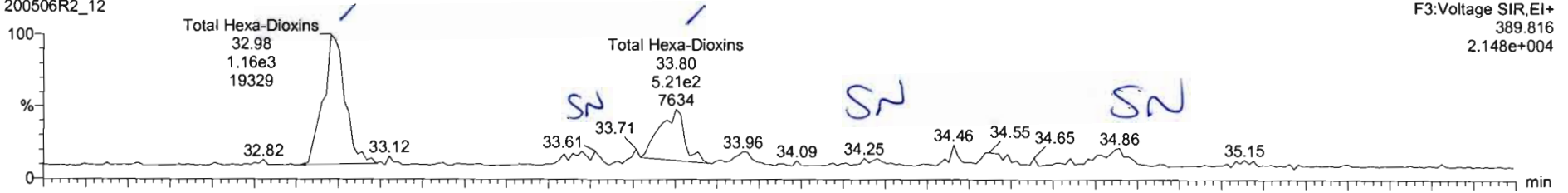
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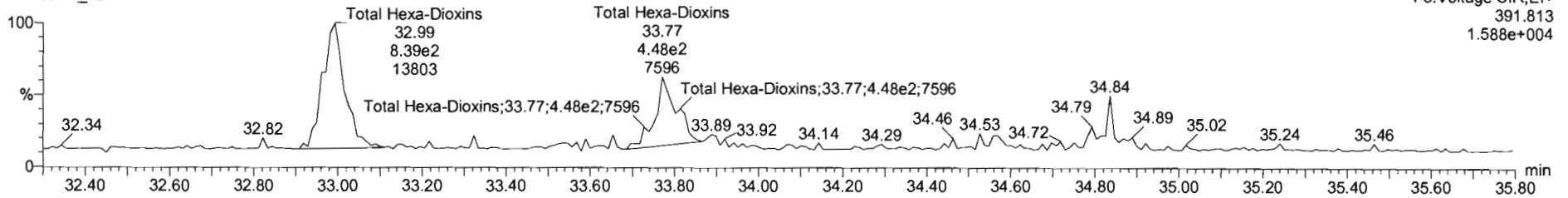
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1,2,3,4,7,8-HxCDD

200506R2\_12

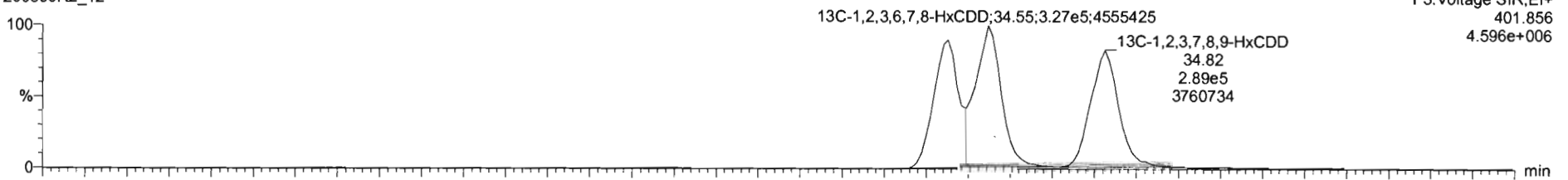


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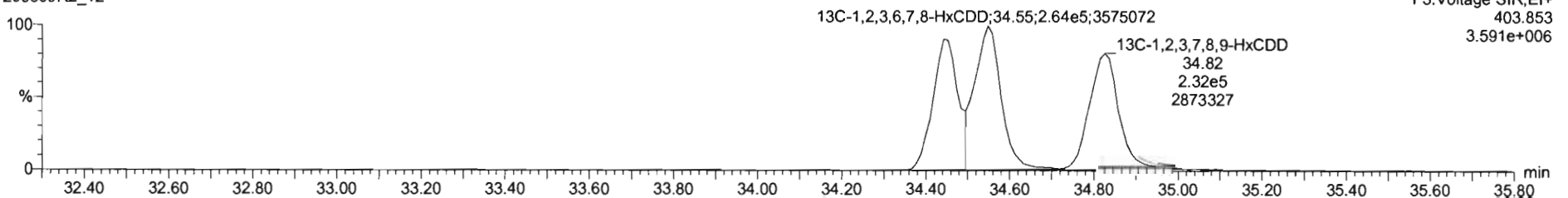


13C-1,2,3,4,7,8-HxCDD

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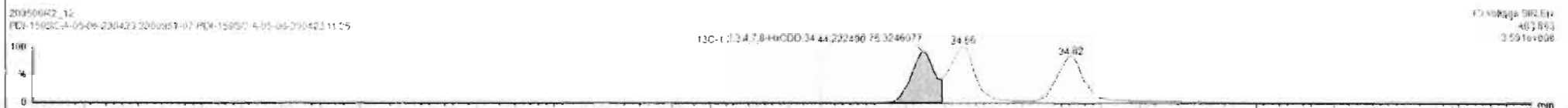
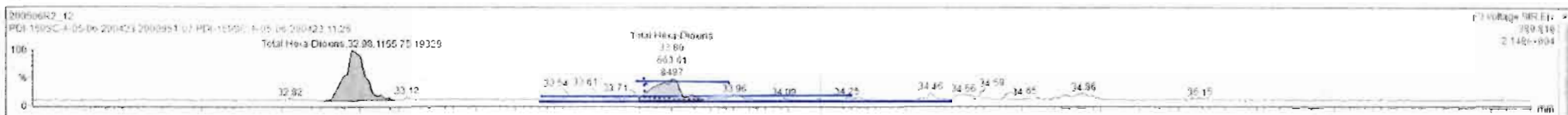


200506R2\_12



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec.	DL	EMPC
41 Total Hexa-Chlorins				0.9145	10.862			1.25		8.162	1.25

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Chlorins	32.98	1.156e2	8.254e2	1.40	NO	0.79763	0.79763
2 Total Hexa-Chlorins	33.80	6.836e2	4.977e2	1.33	NO	0.46666	0.46626



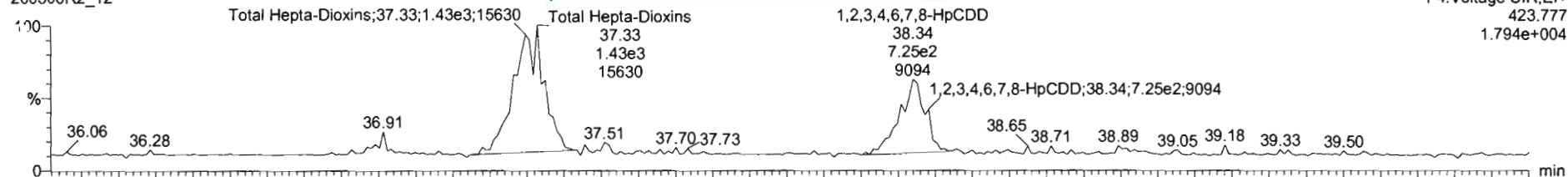
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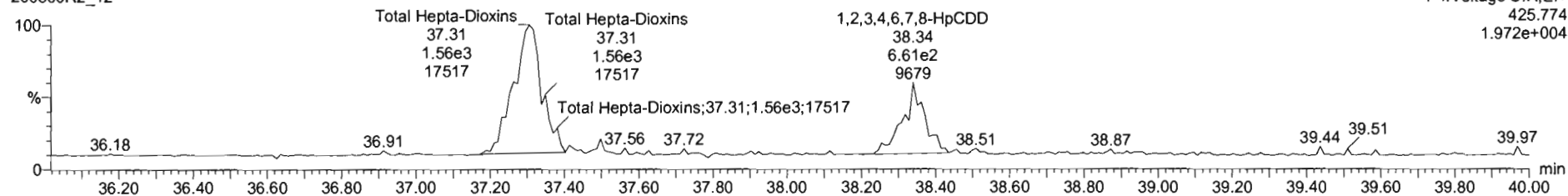
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1,2,3,4,6,7,8-HpCDD

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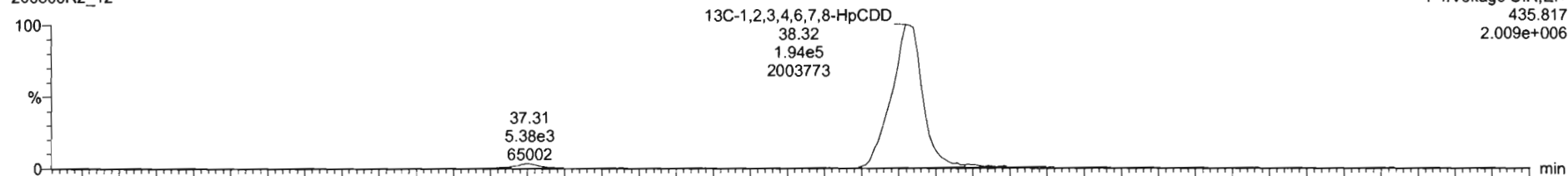


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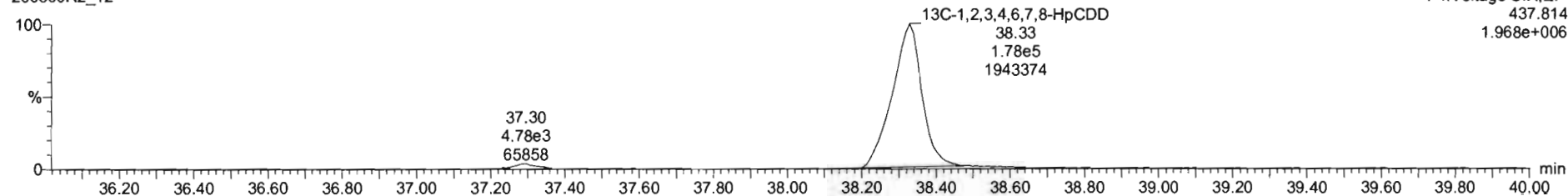


13C-1,2,3,4,6,7,8-HpCDD

200506R2\_12



200506R2\_12

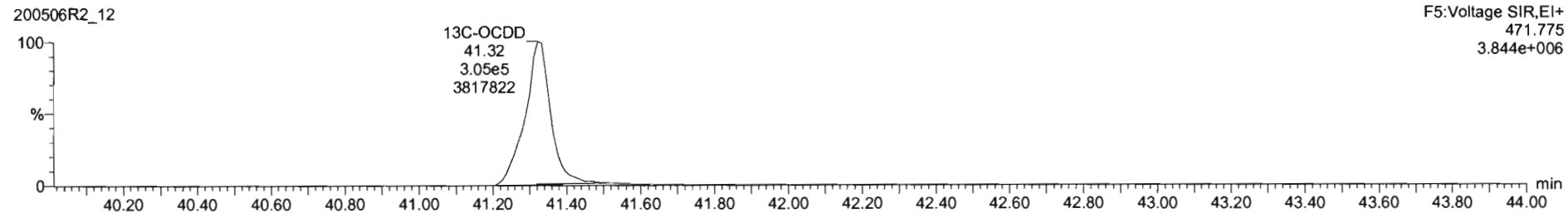
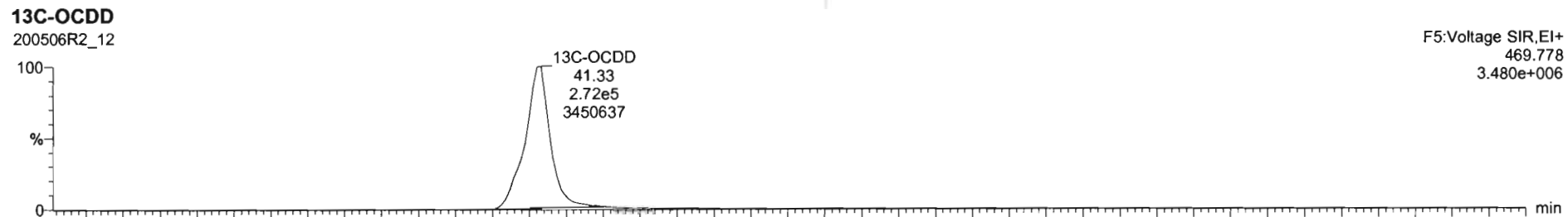
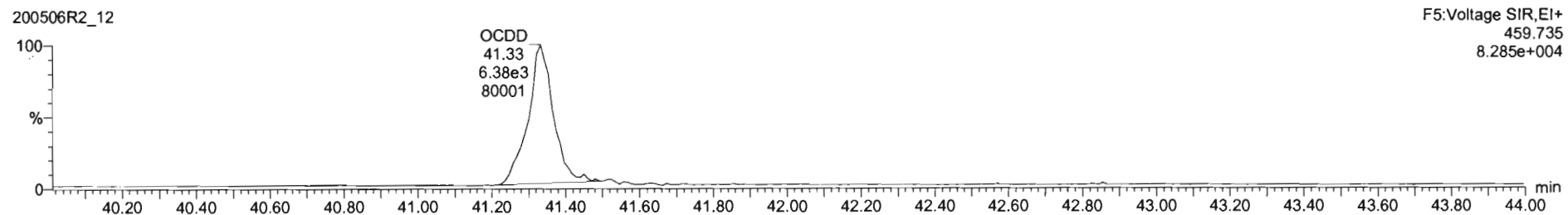
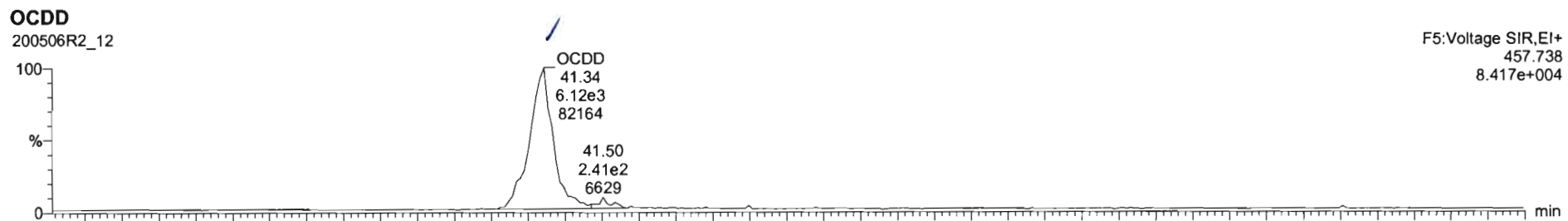


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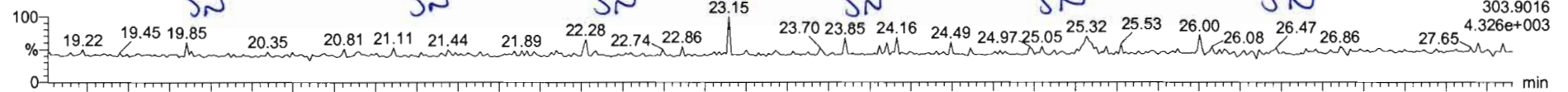
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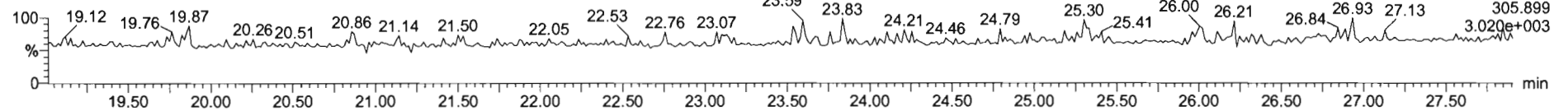
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**2,3,7,8-TCDF**

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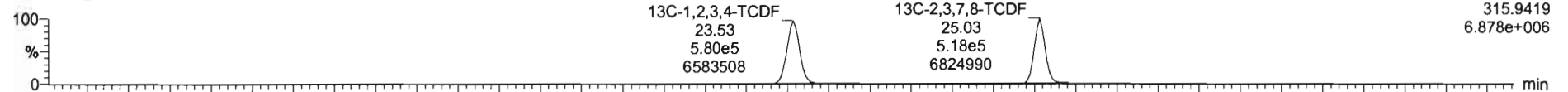


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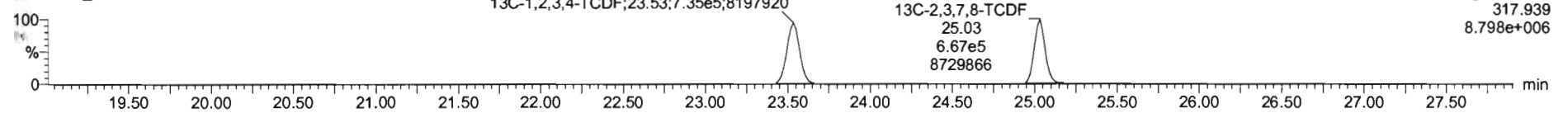


**13C-2,3,7,8-TCDF**

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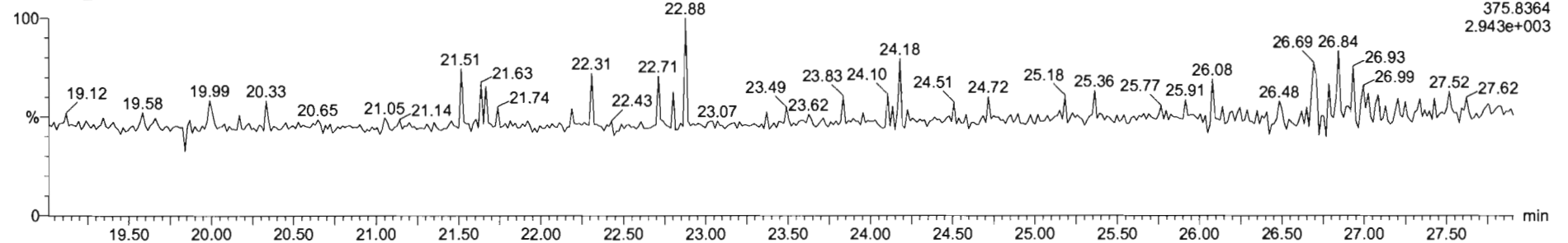


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**DPE1**

200506R2\_12





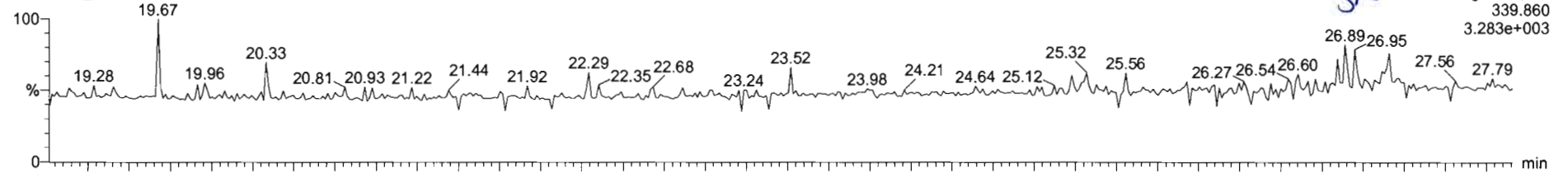
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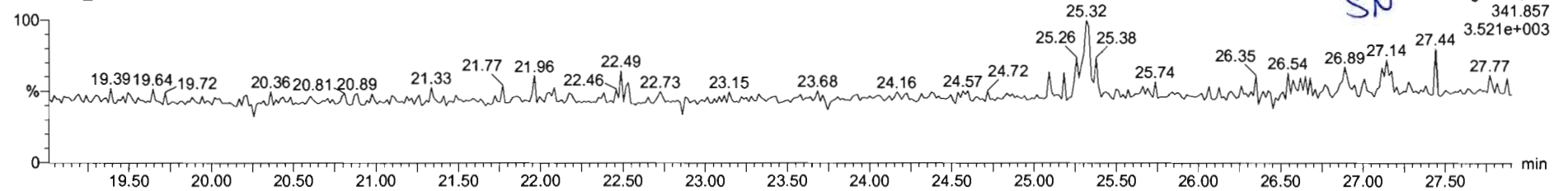
1st Func. Penta-Furans

200506R2\_12



F1: Voltage SIR, EI+  
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3.283e+003

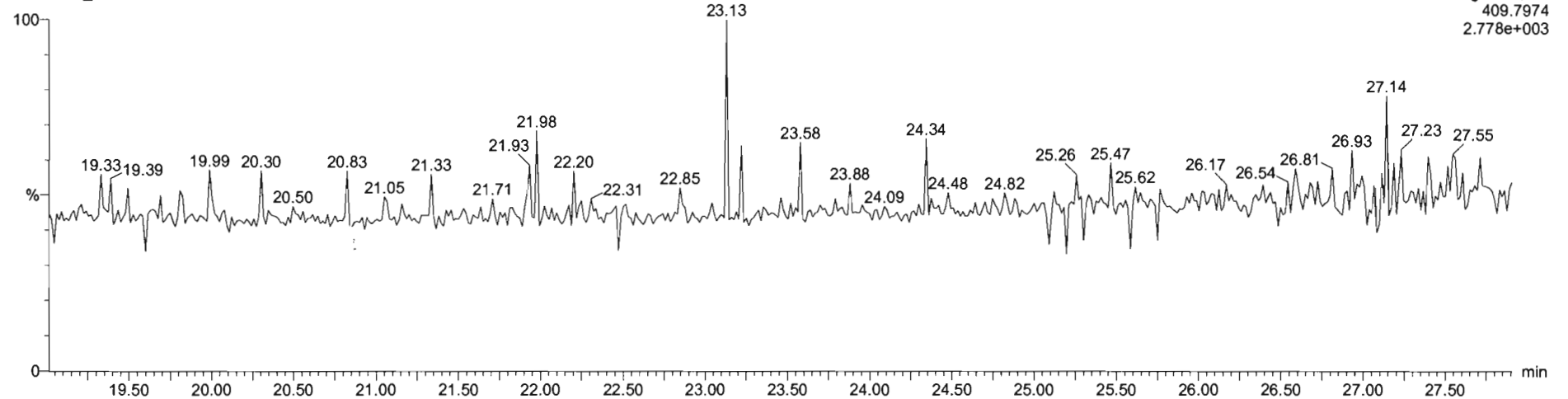
200506R2\_12



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DPE6

200506R2\_12



F1: Voltage SIR, EI+  
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2.778e+003

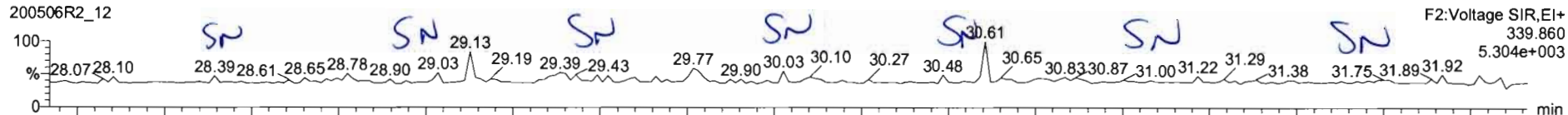
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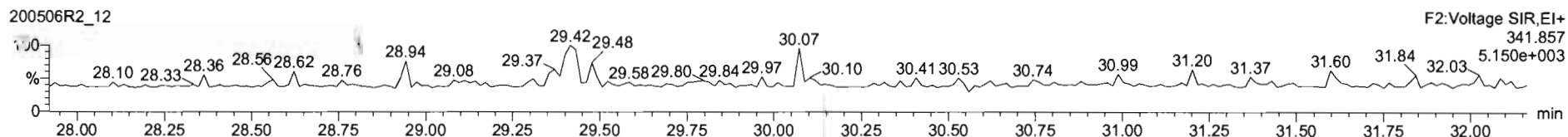
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**1,2,3,7,8-PeCDF**

200506R2\_12

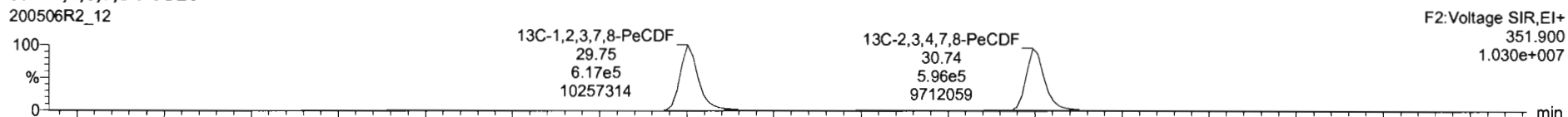


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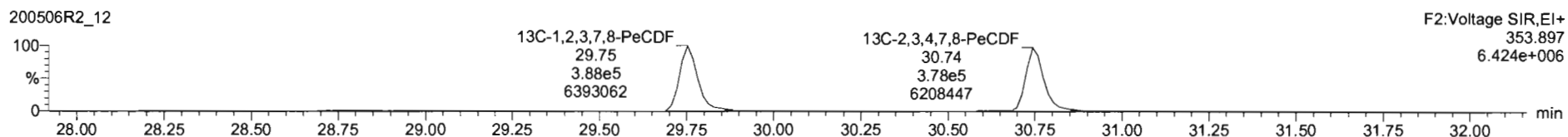


**13C-1,2,3,7,8-PeCDF**

200506R2\_12

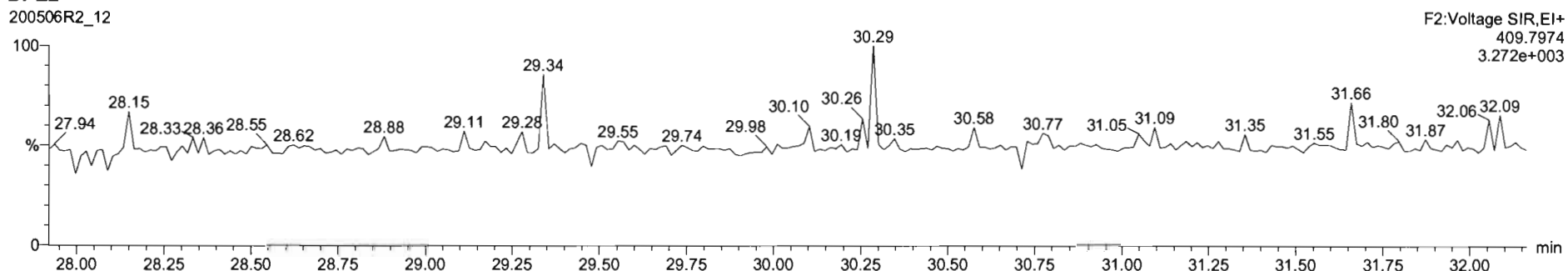


200506R2\_12



**DPE2**

200506R2\_12

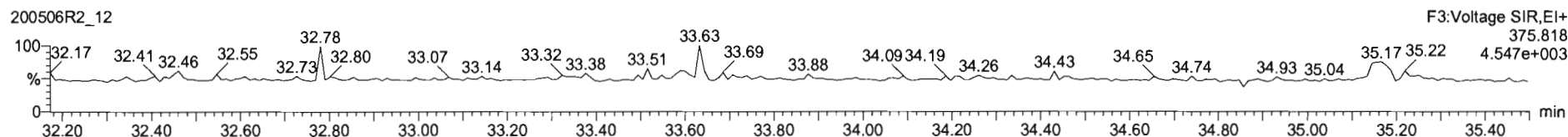
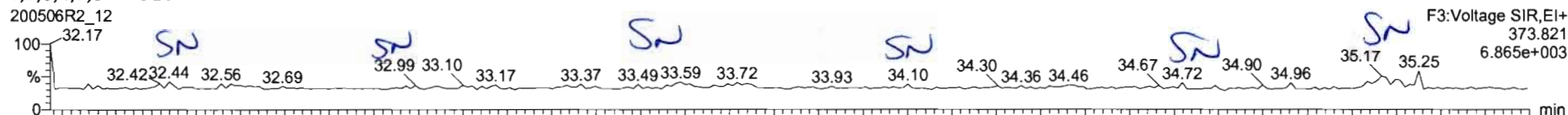


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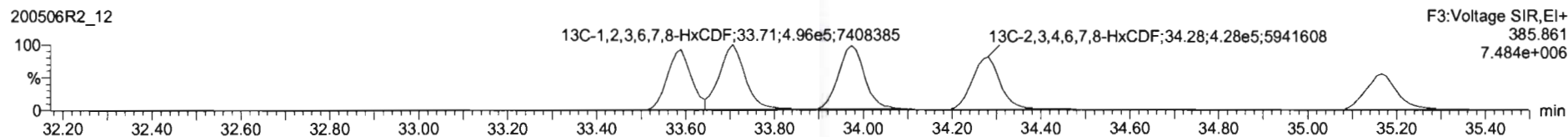
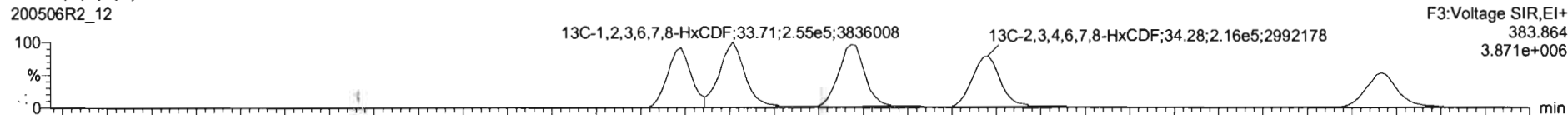
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Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

Name: 200506R2\_12, Date: 06-May-2020, Time: 22:05:59, ID: 2000951-07 PDI-159SC-A-05-06-200423 11.25, Description: PDI-159SC-A-05-06-200423

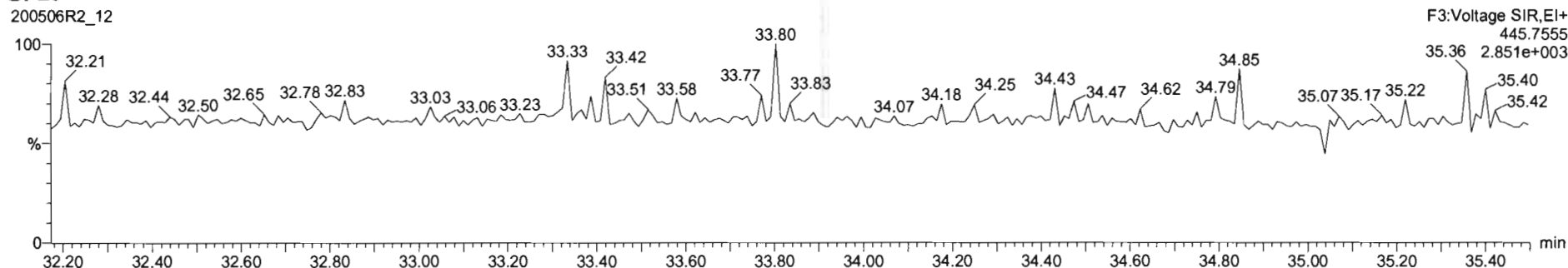
**1,2,3,4,7,8-HxCDF**



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



**DPE3**

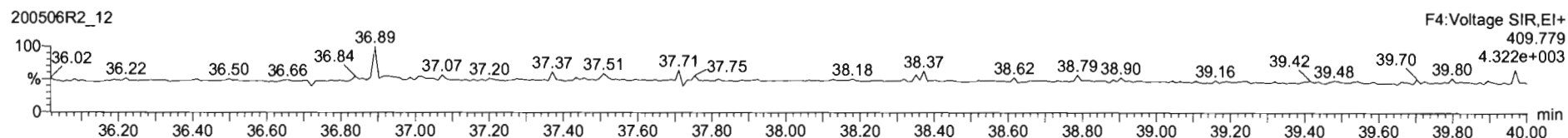
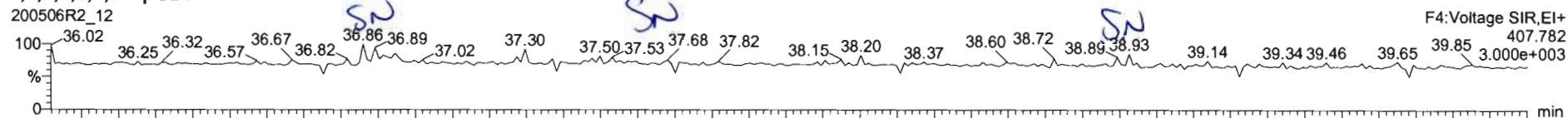


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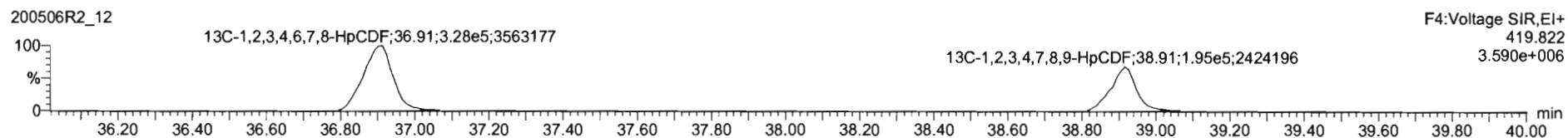
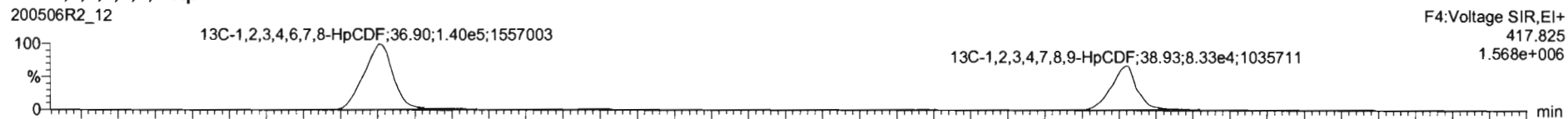
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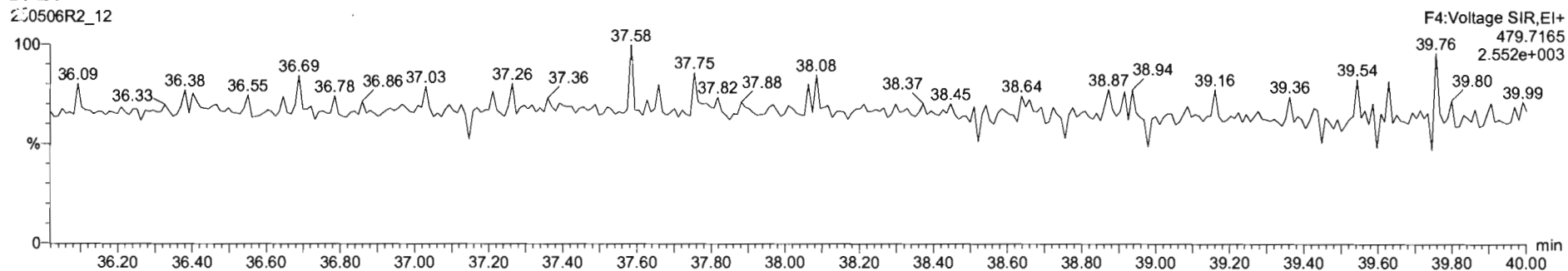
**1,2,3,4,6,7,8-HpCDF**



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



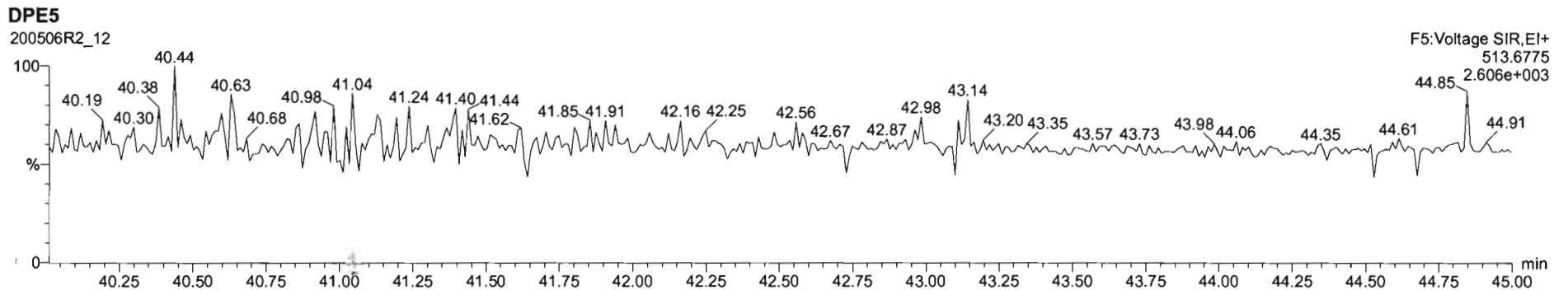
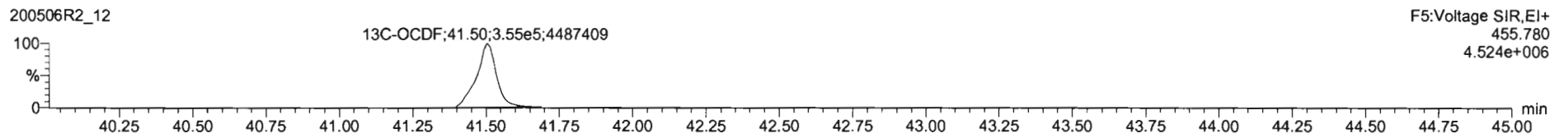
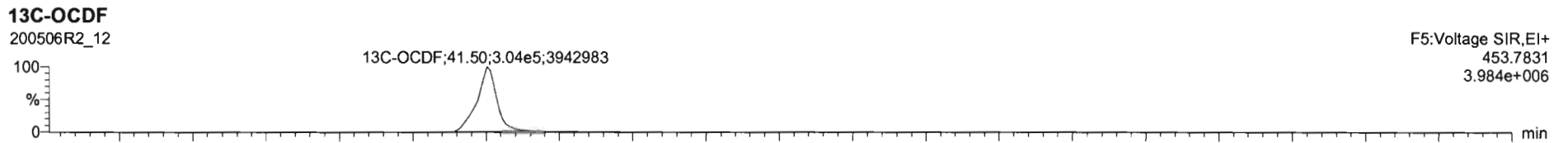
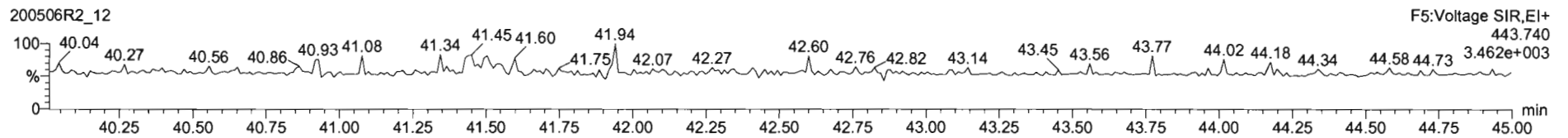
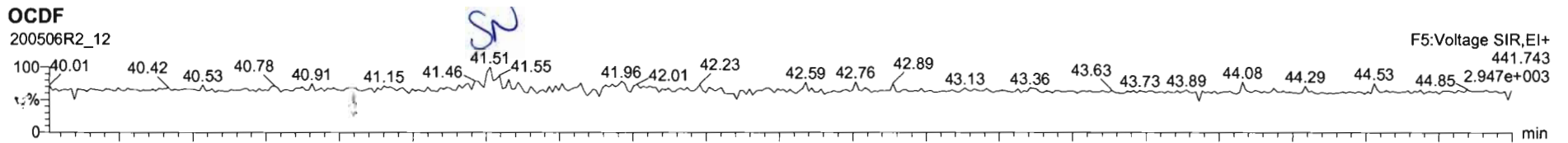
**DPE4**



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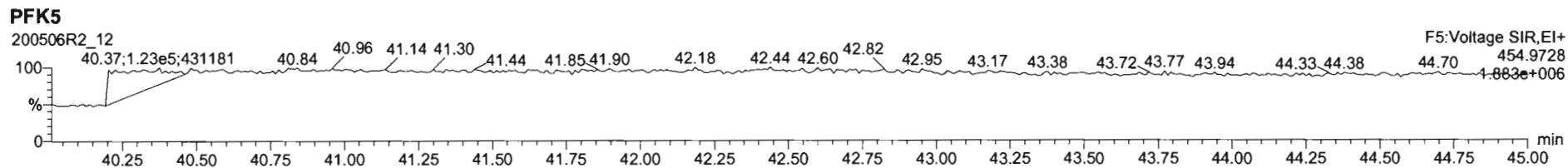
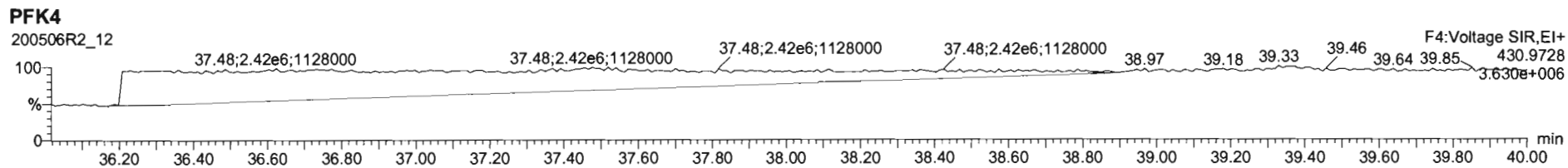
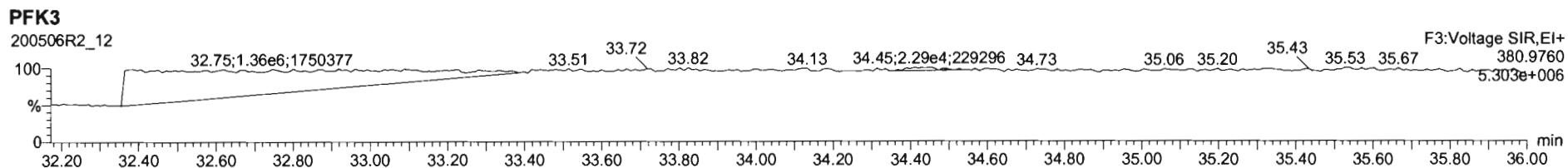
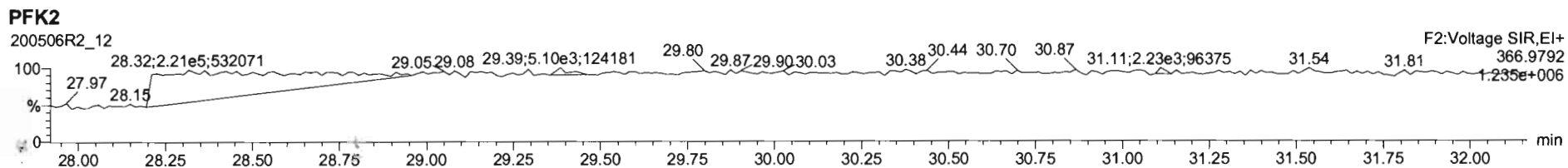
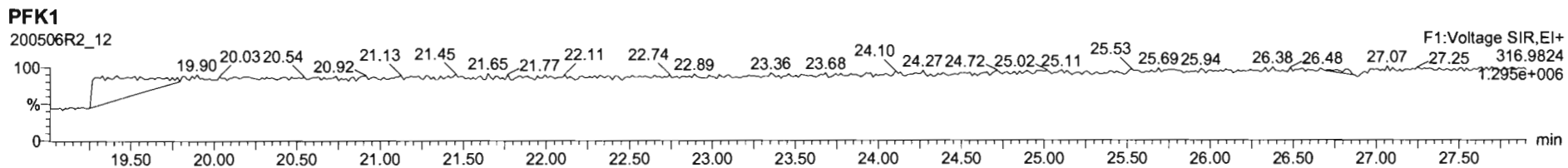
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Name: 200506R2\_12, Date: 06-May-2020, Time: 22:05:59, ID: 2000951-07 PDI-159SC-A-05-06-200423 11.25, Description: PDI-159SC-A-05-06-200423



Dataset: U:\VG12.PRO\Results\200506R2\200506R2-13.qld

Last Altered: Thursday, May 07, 2020 7:42:05 AM Pacific Daylight Time  
Printed: Thursday, May 07, 2020 11:39:38 AM Pacific Daylight Time

GRB 05/07/2020

CT 05/11/2020

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02  
Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200506R2\_13, Date: 06-May-2020, Time: 22:52:12, ID: 2000951-08 PDI-159SC-A-06-07-200423 12.3, Description: PDI-159SC-A-06-07-200423

#	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	0.947	10.191	26.006		1.001				0.0460	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.191	31.086		1.001				0.0626	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.191	34.463		1.000				0.0620	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.191	34.559		1.000				0.0680	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.191	34.846		1.000				0.0728	
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.898	10.191	38.351		1.000				0.143	
7	7 OCDD	5.74e2	0.80	NO	0.933	10.191	41.333	41.34	1.000	1.000	0.35649		0.115	0.356
8	8 2,3,7,8-TCDF			NO	0.787	10.191	25.057		1.001				0.0313	
9	9 1,2,3,7,8-PeCDF			NO	0.910	10.191	29.772		1.001				0.0388	
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.191	30.774		1.001				0.0381	
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	10.191	33.590		1.000				0.0374	
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.191	33.717		1.000				0.0354	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.191	34.316		1.001				0.0370	
14	14 1,2,3,7,8,9-HxCDF			NO	0.864	10.191	35.166		1.000				0.0595	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.871	10.191	36.950		1.001				0.0580	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.191	38.925		1.000				0.0822	
17	17 OCDF			NO	0.802	10.191	41.514		1.000				0.0614	
18	18 13C-2,3,7,8-TCDD	9.90e5	0.79	NO	1.16	10.191	25.969	25.98	1.026	1.027	179.88	91.7	0.185	
19	19 13C-1,2,3,7,8-PeCDD	7.28e5	0.64	NO	0.847	10.191	31.050	31.06	1.227	1.228	181.05	92.3	0.301	
20	20 13C-1,2,3,4,7,8-HxCDD	5.61e5	1.30	NO	0.750	10.191	34.463	34.45	1.014	1.014	189.98	96.8	0.646	
21	21 13C-1,2,3,6,7,8-HxCDD	6.92e5	1.28	NO	0.963	10.191	34.575	34.56	1.017	1.017	182.31	92.9	0.503	
22	22 13C-1,2,3,7,8,9-HxCDD	6.56e5	1.27	NO	0.838	10.191	34.843	34.84	1.025	1.025	198.86	101	0.578	
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.28e5	1.00	NO	0.641	10.191	38.330	38.34	1.128	1.128	169.38	86.3	0.602	
24	24 13C-OCDD	6.76e5	0.89	NO	0.586	10.191	41.321	41.33	1.216	1.216	292.84	74.6	0.434	
25	25 13C-2,3,7,8-TCDF	1.28e6	0.78	NO	1.03	10.191	25.030	25.03	0.989	0.989	175.48	89.4	0.354	
26	26 13C-1,2,3,7,8-PeCDF	1.11e6	1.62	NO	0.845	10.191	29.742	29.75	1.176	1.176	185.35	94.4	0.639	
27	27 13C-2,3,4,7,8-PeCDF	1.04e6	1.58	NO	0.814	10.191	30.731	30.74	1.215	1.215	181.20	92.3	0.664	
28	28 13C-1,2,3,4,7,8-HxCDF	7.11e5	0.50	NO	1.00	10.191	33.603	33.59	0.989	0.988	179.47	91.5	0.629	
29	29 13C-1,2,3,6,7,8-HxCDF	8.70e5	0.51	NO	1.14	10.191	33.725	33.71	0.992	0.992	194.19	99.0	0.556	
30	30 13C-2,3,4,6,7,8-HxCDF	7.90e5	0.51	NO	1.02	10.191	34.293	34.28	1.009	1.009	196.07	99.9	0.618	
31	31 13C-1,2,3,7,8,9-HxCDF	6.31e5	0.50	NO	0.845	10.191	35.183	35.17	1.035	1.035	189.50	96.6	0.748	

Dataset: U:\VG12.PRO\Results\200506R2\200506R2-13.qld

Last Altered: Thursday, May 07, 2020 7:42:05 AM Pacific Daylight Time  
Printed: Thursday, May 07, 2020 11:39:38 AM Pacific Daylight Time

Name: 200506R2\_13, Date: 06-May-2020, Time: 22:52:12, ID: 2000951-08 PDI-159SC-A-06-07-200423 12.3, Description: PDI-159SC-A-06-07-200423

#	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	5.86e5	0.44	NO	0.771	10.191	36.913	36.91	1.086	1.086	192.80	98.2	0.697	
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.12e5	0.43	NO	0.482	10.191	38.921	38.92	1.145	1.145	164.32	83.7	1.12	
34	34 13C-OCDF	7.60e5	0.87	NO	0.669	10.191	41.491	41.51	1.221	1.222	288.51	73.5	0.428	
35	35 37Cl-2,3,7,8-TCDD	3.89e5			1.10	10.191	25.999	25.99	1.028	1.027	74.689	95.1	0.0671	
36	36 13C-1,2,3,4-TCDD	9.32e5	0.80	NO	1.00	10.191	25.350	25.30	1.000	1.000	196.24	100	0.214	
37	37 13C-1,2,3,4-TCDF	1.39e6	0.79	NO	1.00	10.191	23.560	23.52	1.000	1.000	196.24	100	0.366	
38	38 13C-1,2,3,4,6,9-HxCDF	7.73e5	0.51	NO	1.00	10.191	34.000	33.98	1.000	1.000	196.24	100	0.632	
39	39 Total Tetra-Dioxins				0.947	10.191	24.620		0.000				0.0293	
40	40 Total Penta-Dioxins				0.942	10.191	29.960		0.000				0.0274	
41	41 Total Hexa-Dioxins				0.915	10.191	33.635		0.000				0.0453	
42	42 Total Hepta-Dioxins				0.898	10.191	37.640		0.000				0.0700	
43	43 Total Tetra-Furans				0.787	10.191	23.610		0.000				0.0150	
44	44 1st Func. Penta-Furans				0.910	10.191	27.090		0.000				0.00935	
45	45 Total Penta-Furans				0.910	10.191	29.275		0.000				0.0136	
46	46 Total Hexa-Furans				0.922	10.191	33.555		0.000				0.0212	
47	47 Total Hepta-Furans				0.871	10.191	37.835		0.000				0.0372	



Dataset: U:\VG12.PRO\Results\200506R2\200506R2-13.qld

Last Altered: Thursday, May 07, 2020 7:42:05 AM Pacific Daylight Time  
Printed: Thursday, May 07, 2020 11:39:38 AM Pacific Daylight Time

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Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200506R2\_13, Date: 06-May-2020, Time: 22:52:12, ID: 2000951-08 PDI-159SC-A-06-07-200423 12.3, Description: PDI-159SC-A-06-07-200423

**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\200506R2\200506R2-13.qld

Last Altered: Thursday, May 07, 2020 7:42:05 AM Pacific Daylight Time

Printed: Thursday, May 07, 2020 11:39:38 AM Pacific Daylight Time

Name: 200506R2\_13, Date: 06-May-2020, Time: 22:52:12, ID: 2000951-08 PDI-159SC-A-06-07-200423 12.3, Description: PDI-159SC-A-06-07-200423

Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

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

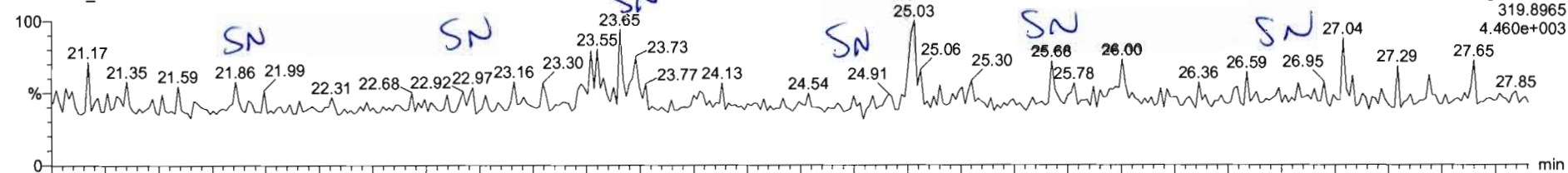
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Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

Name: 200506R2\_13, Date: 06-May-2020, Time: 22:52:12, ID: 2000951-08 PDI-159SC-A-06-07-200423 12.3, Description: PDI-159SC-A-06-07-200423

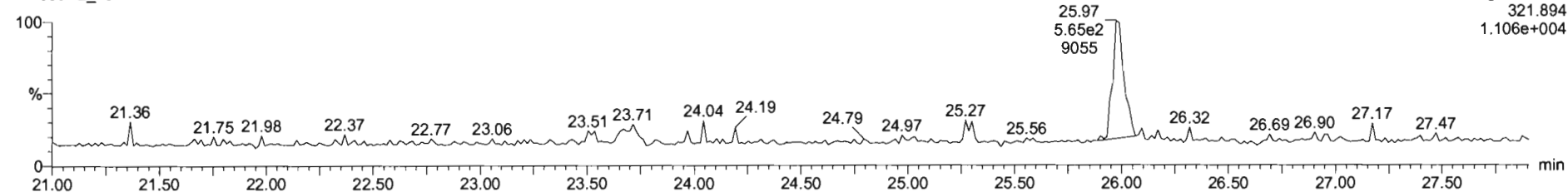
2,3,7,8-TCDD

200506R2\_13



F1: Voltage SIR, EI+  
319.8965  
4.460e+003

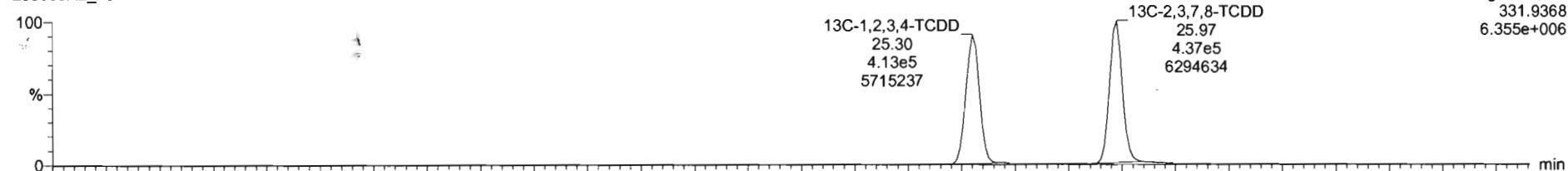
200506R2\_13



F1: Voltage SIR, EI+  
321.894  
1.106e+004

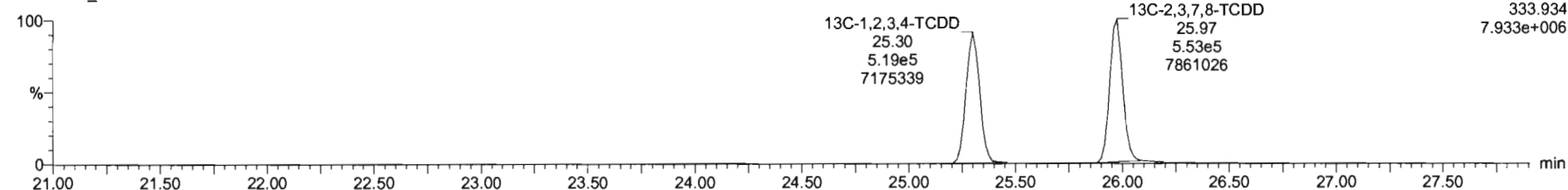
13C-2,3,7,8-TCDD

200506R2\_13



F1: Voltage SIR, EI+  
331.9368  
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200506R2\_13



F1: Voltage SIR, EI+  
333.934  
7.933e+006

Dataset: Untitled

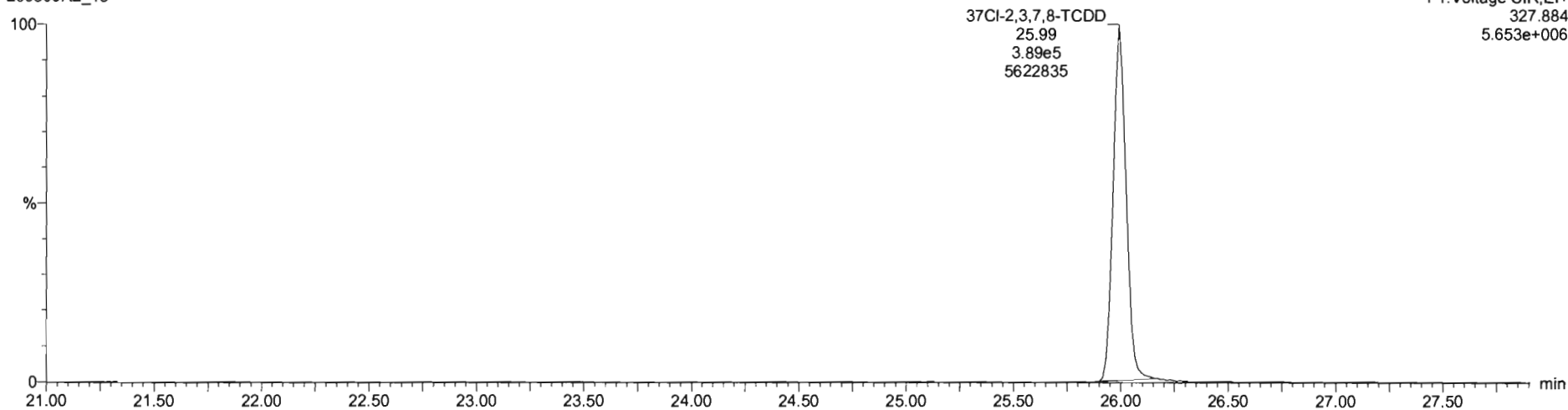
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Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

Name: 200506R2\_13, Date: 06-May-2020, Time: 22:52:12, ID: 2000951-08 PDI-159SC-A-06-07-200423 12.3, Description: PDI-159SC-A-06-07-200423

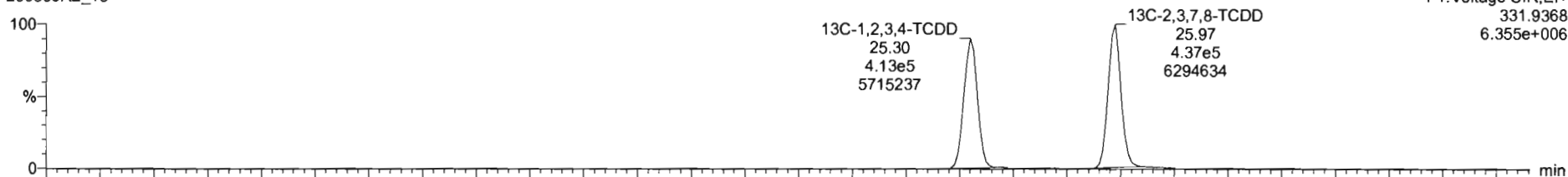
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200506R2\_13

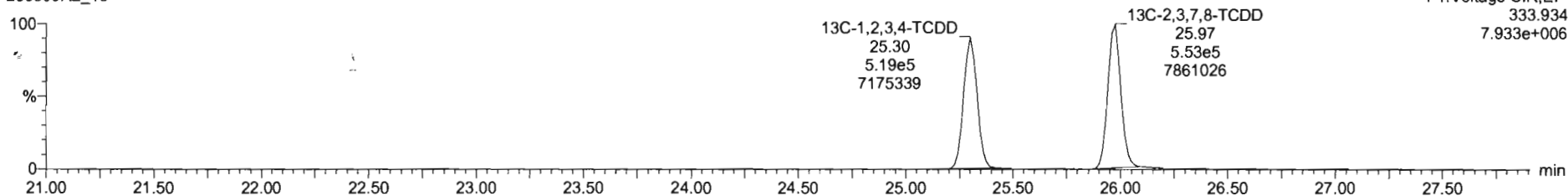


**13C-1,2,3,4-TCDD**

200506R2\_13



200506R2\_13



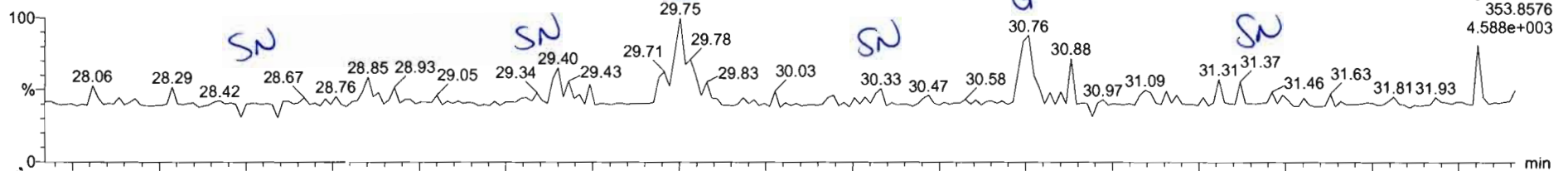
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Last Altered: Thursday, May 07, 2020 7:18:10 AM Pacific Daylight Time  
Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

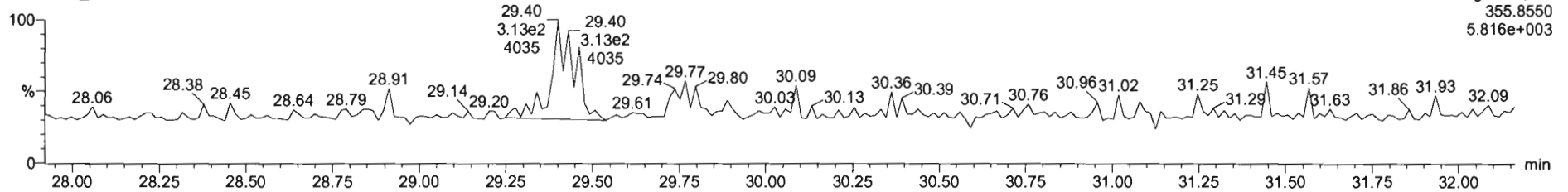
Name: 200506R2\_13, Date: 06-May-2020, Time: 22:52:12, ID: 2000951-08 PDI-159SC-A-06-07-200423 12.3, Description: PDI-159SC-A-06-07-200423

**1,2,3,7,8-PeCDD**

200506R2\_13

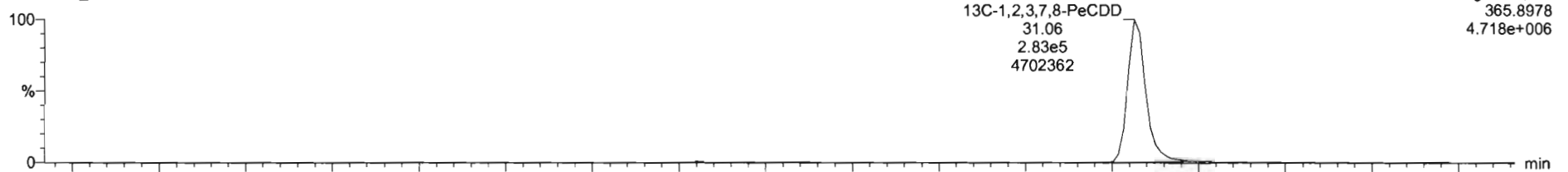


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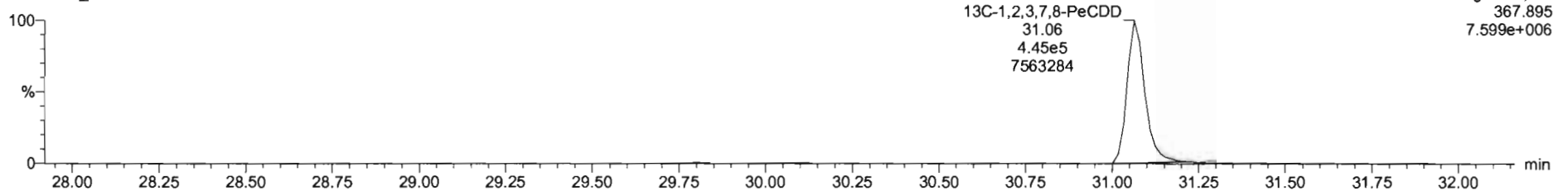


**13C-1,2,3,7,8-PeCDD**

200506R2\_13



200506R2\_13



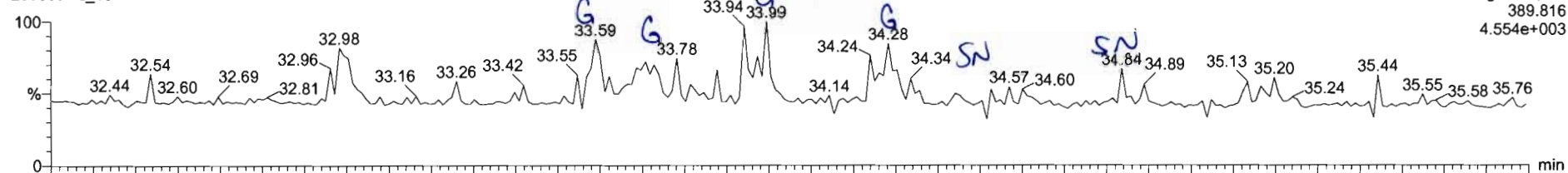
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Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

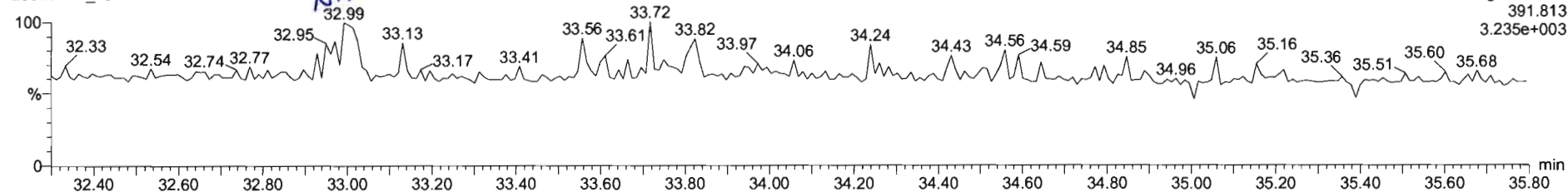
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1,2,3,4,7,8-HxCDD

200506R2\_13

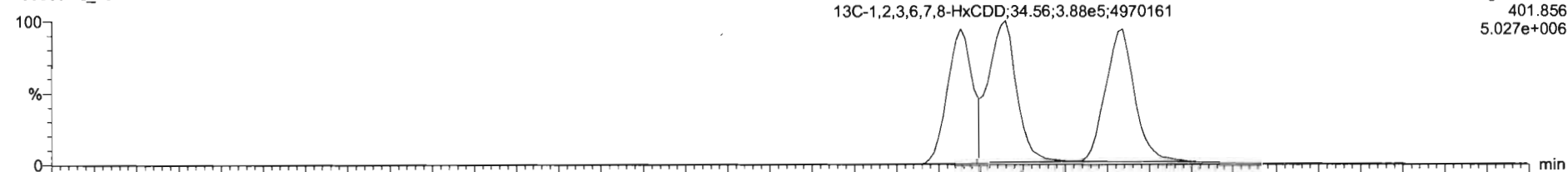


200506R2\_13

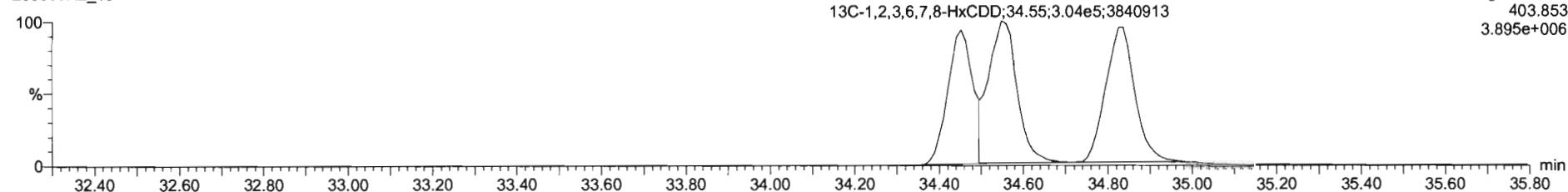


13C-1,2,3,4,7,8-HxCDD

200506R2\_13



200506R2\_13



Dataset: Untitled

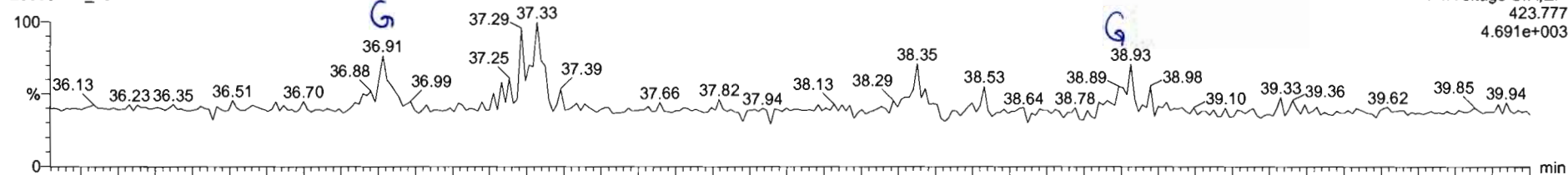
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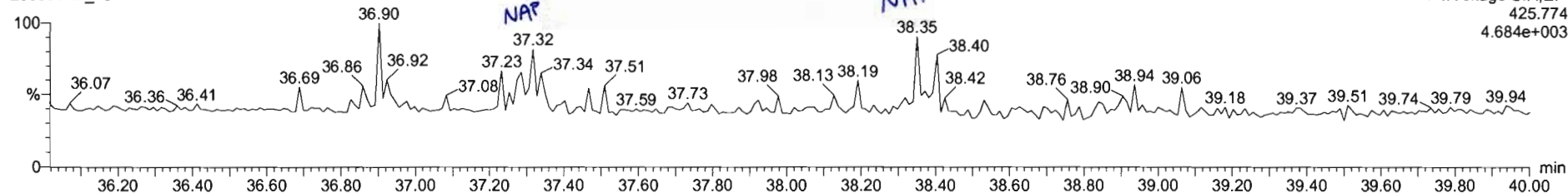
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**1,2,3,4,6,7,8-HpCDD**

200506R2\_13

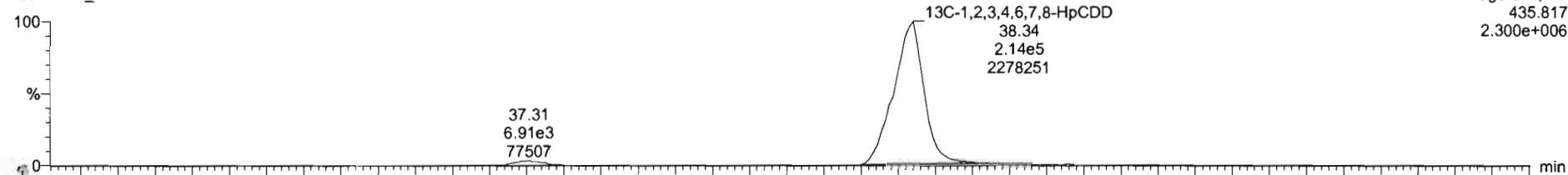


200506R2\_13

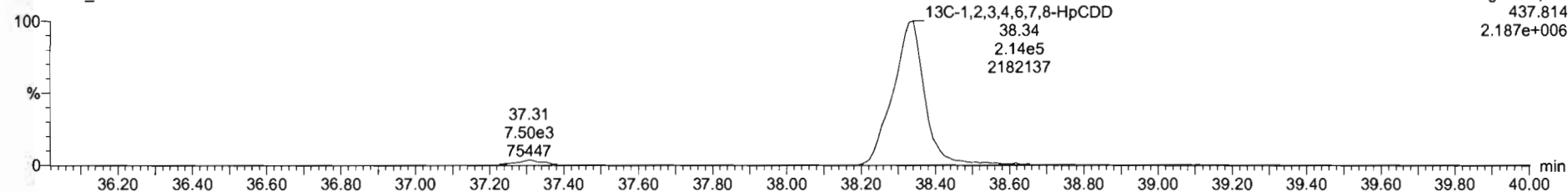


**13C-1,2,3,4,6,7,8-HpCDD**

200506R2\_13



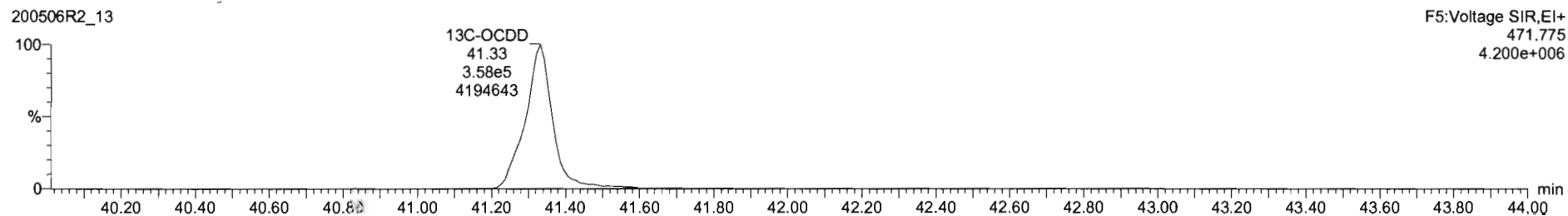
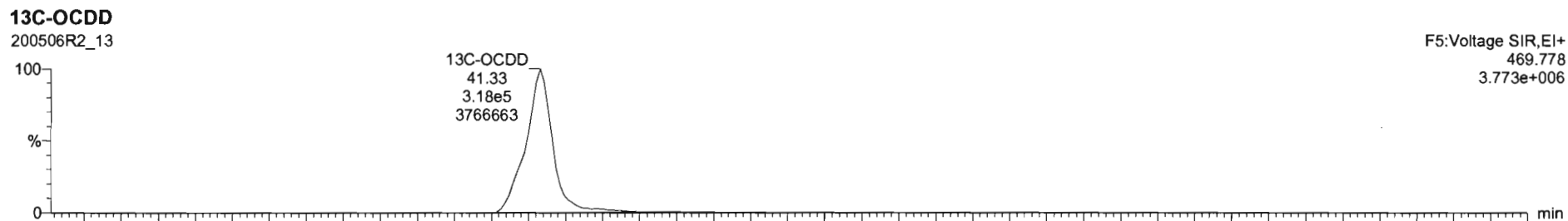
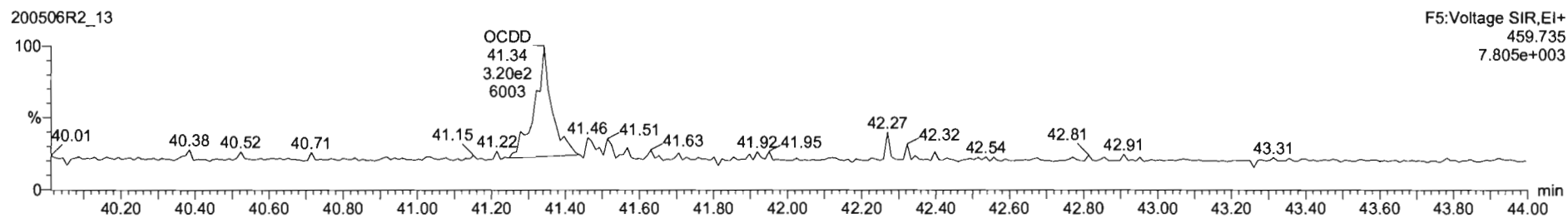
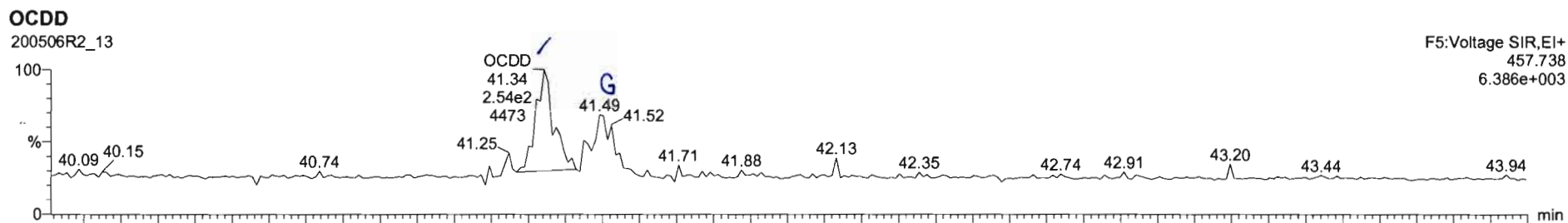
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Name: 200506R2\_13, Date: 06-May-2020, Time: 22:52:12, ID: 2000951-08 PDI-159SC-A-06-07-200423 12.3, Description: PDI-159SC-A-06-07-200423





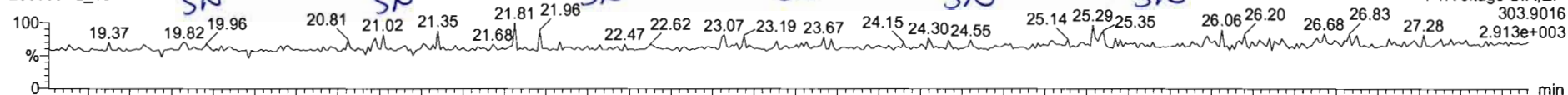
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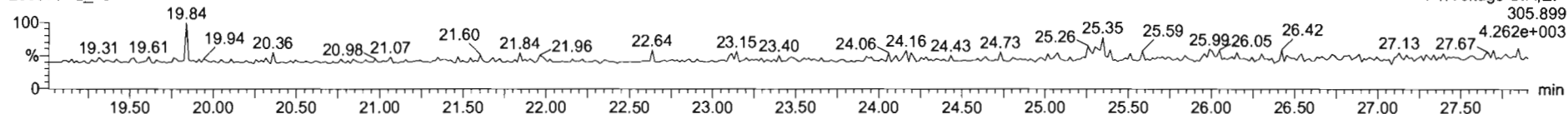
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**2,3,7,8-TCDF**

200506R2\_13

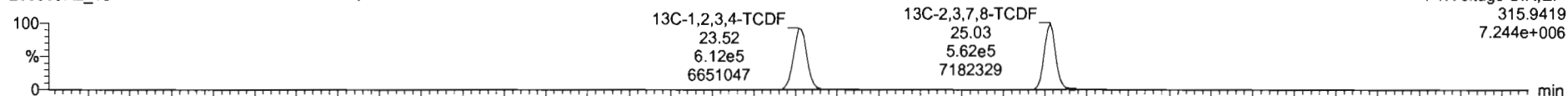


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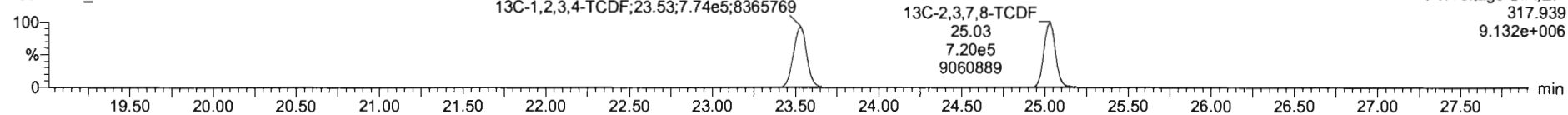


**13C-2,3,7,8-TCDF**

200506R2\_13

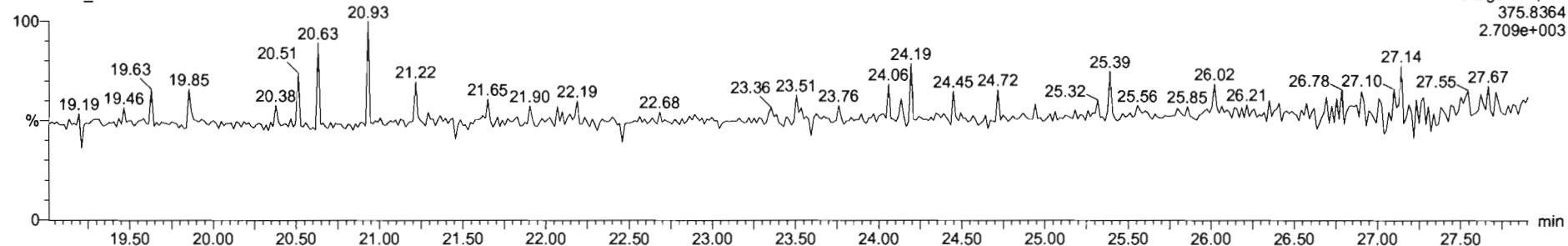


200506R2\_13



**DPE1**

200506R2\_13

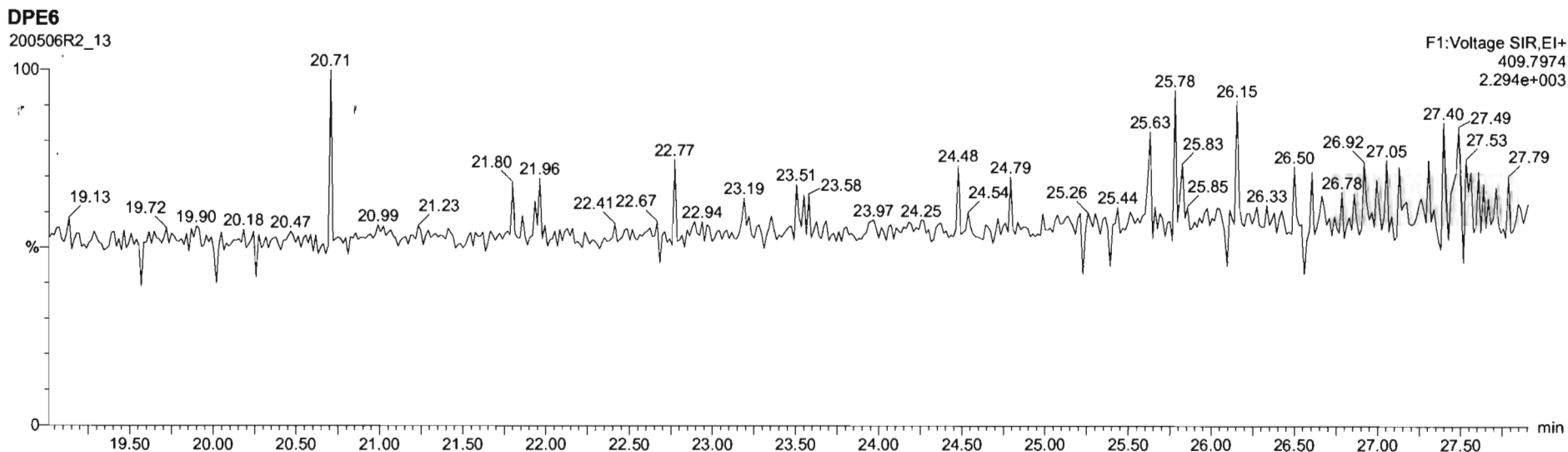
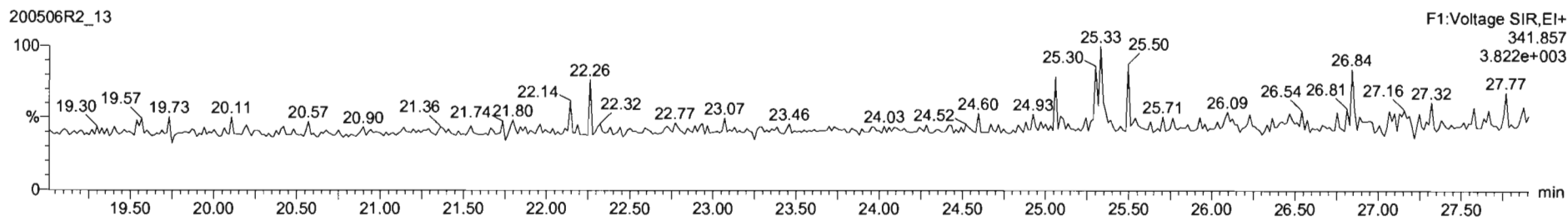
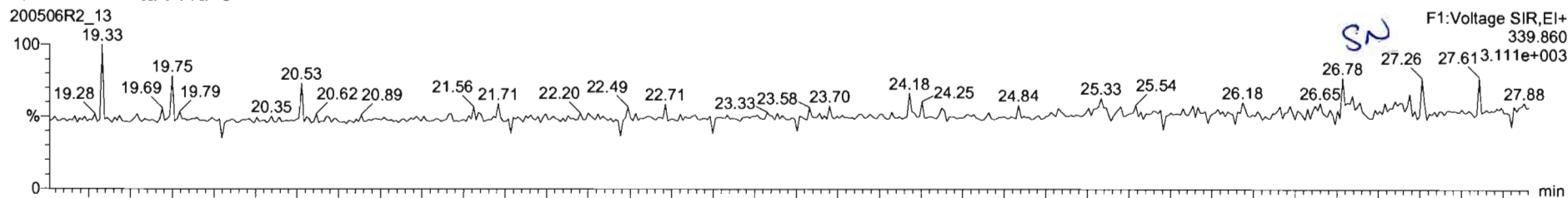


Dataset: Untitled

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Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

Name: 200506R2\_13, Date: 06-May-2020, Time: 22:52:12, ID: 2000951-08 PDI-159SC-A-06-07-200423 12.3, Description: PDI-159SC-A-06-07-200423

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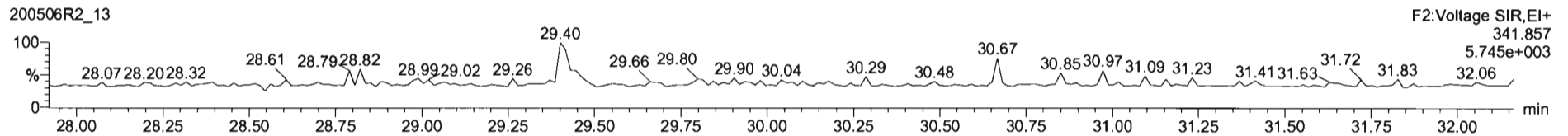
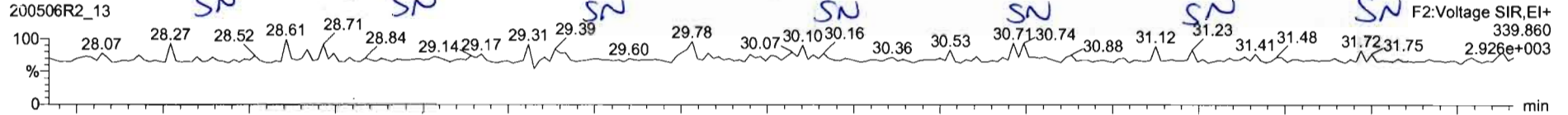


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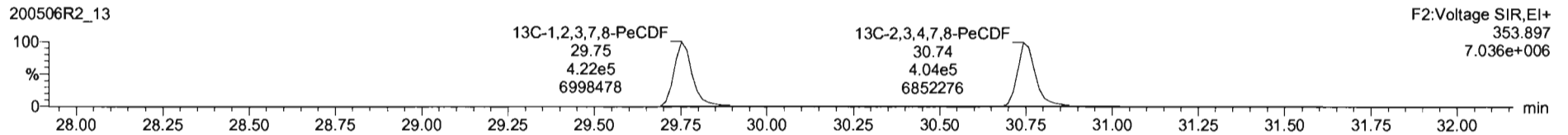
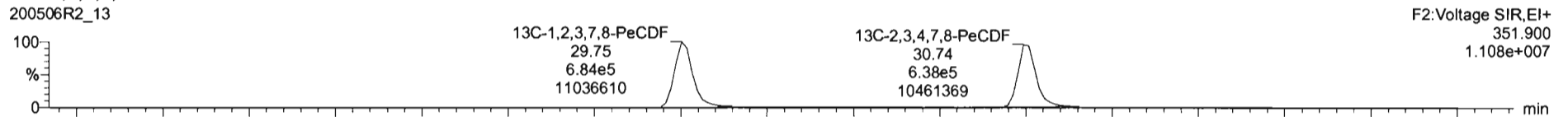
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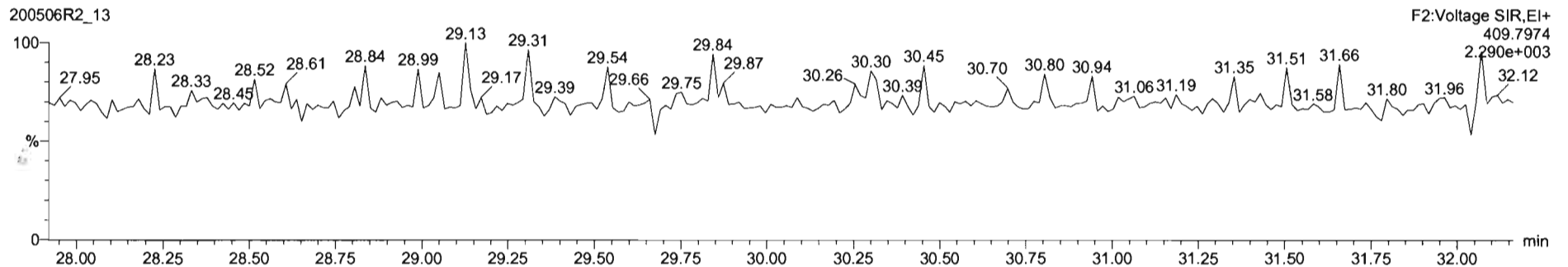
**1,2,3,7,8-PeCDF**



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



**DPE2**



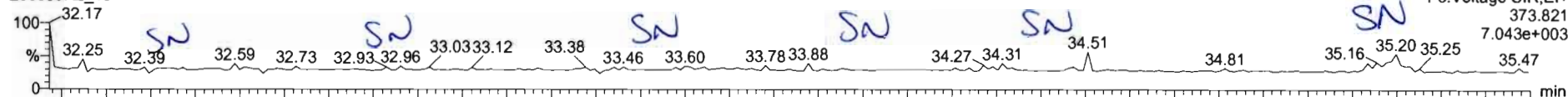
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Last Altered: Thursday, May 07, 2020 7:18:10 AM Pacific Daylight Time  
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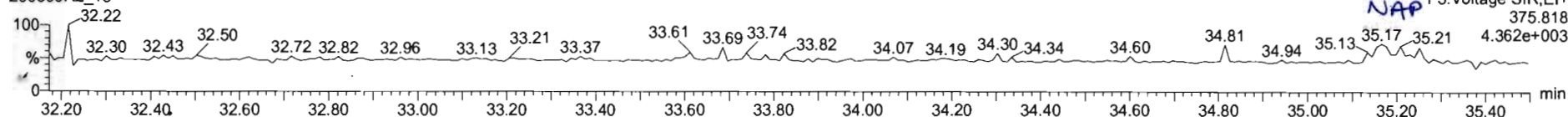
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**1,2,3,4,7,8-HxCDF**

200506R2\_13

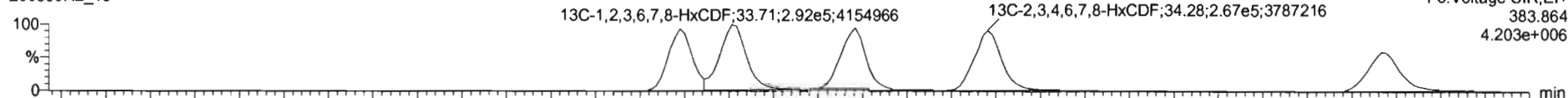


200506R2\_13

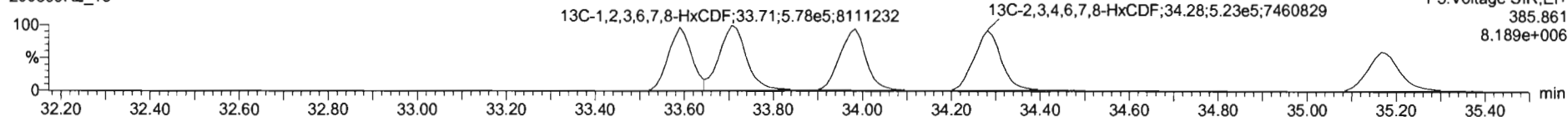


**13C-1,2,3,4,7,8-HxCDF**

200506R2\_13

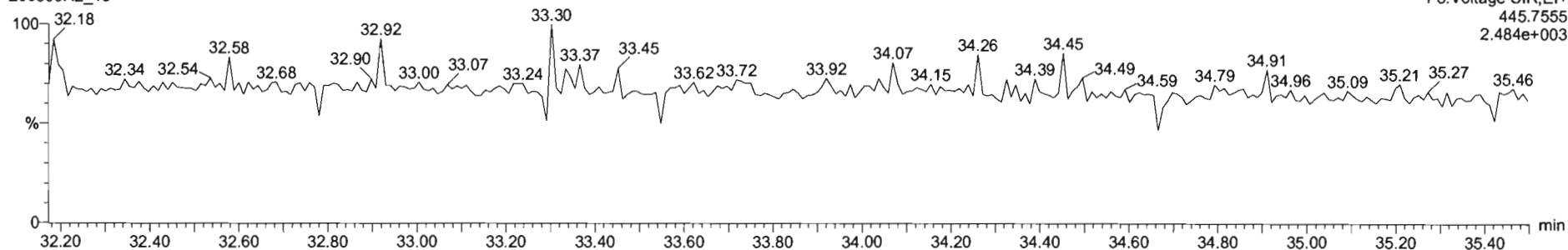


200506R2\_13



**DPE3**

200506R2\_13

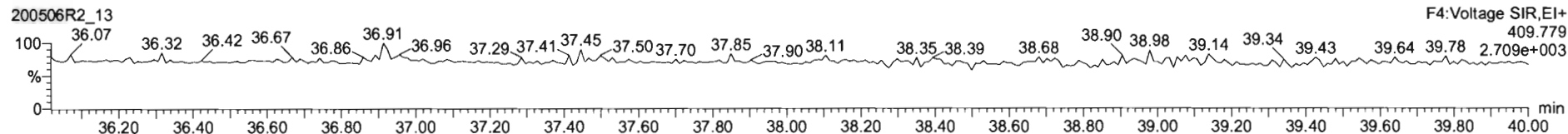
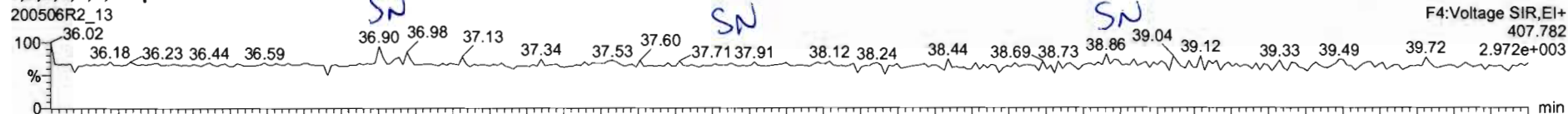


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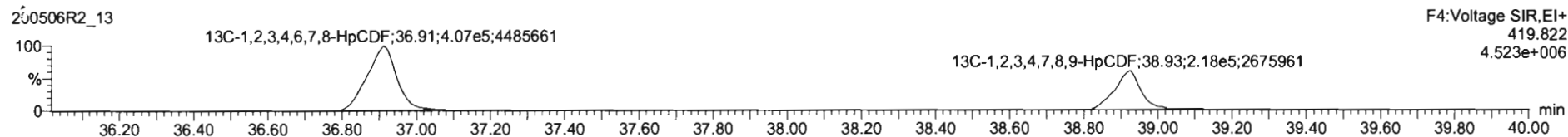
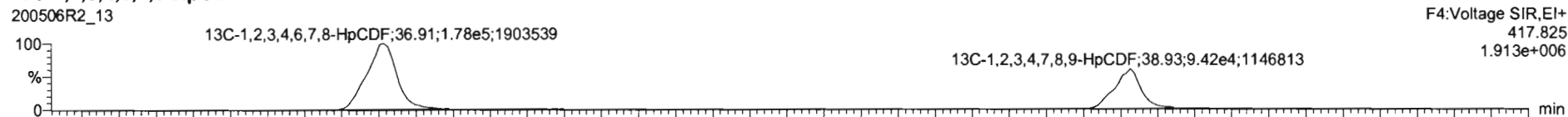
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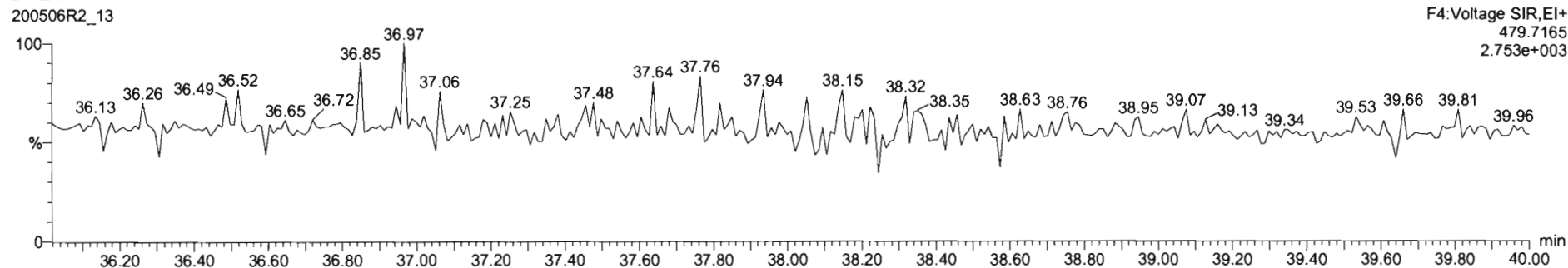
1,2,3,4,6,7,8-HpCDF



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



DPE4

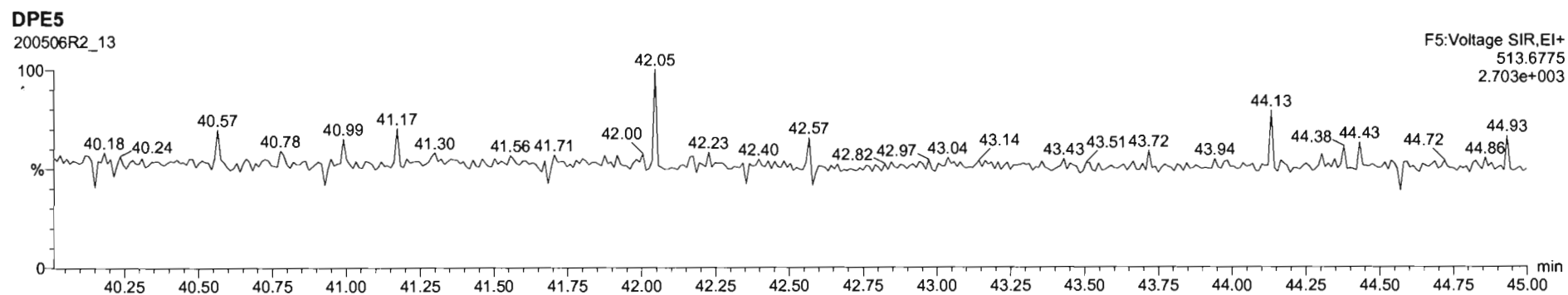
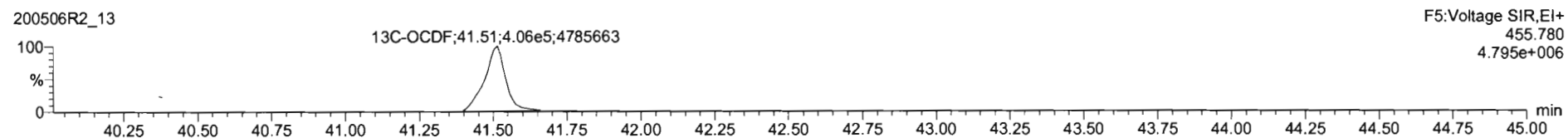
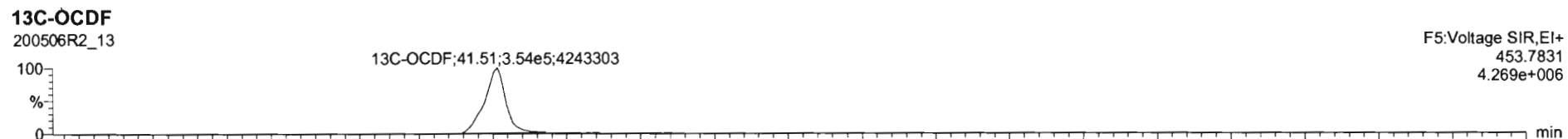
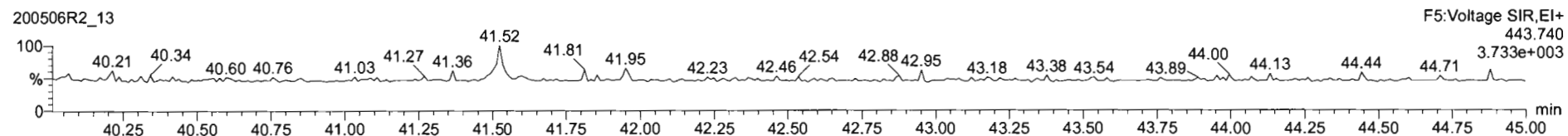
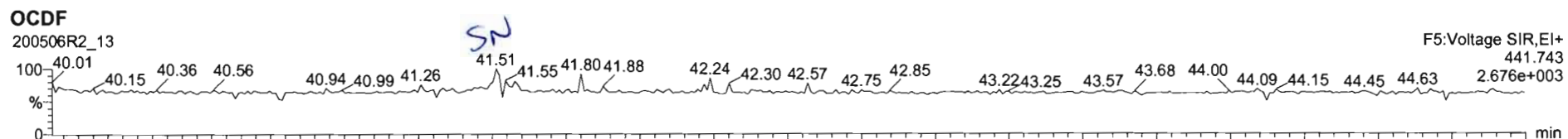


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Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

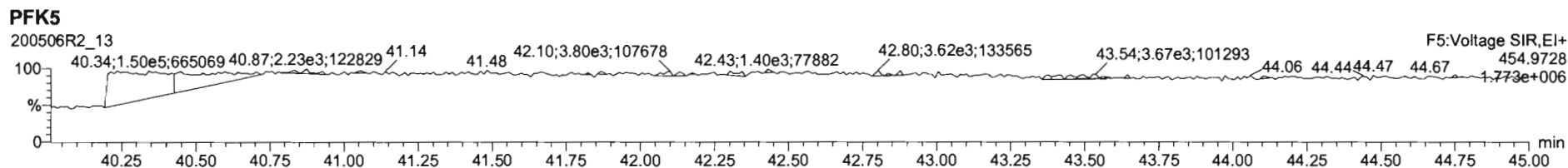
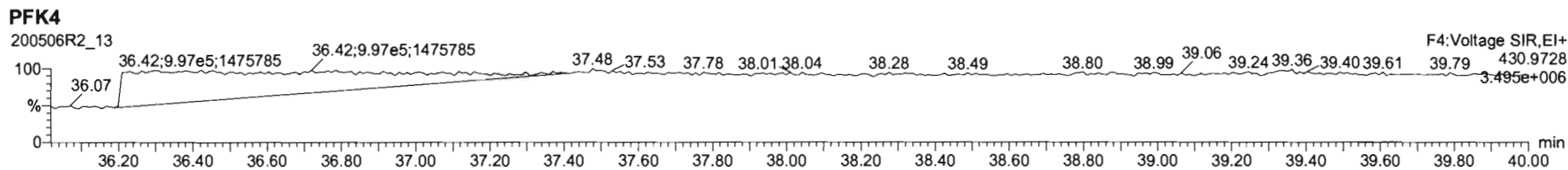
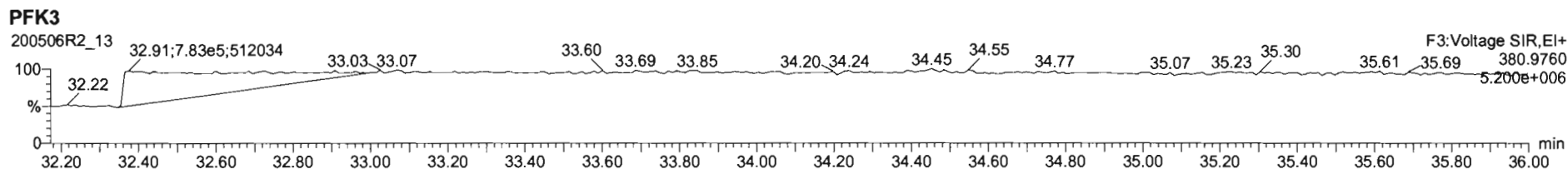
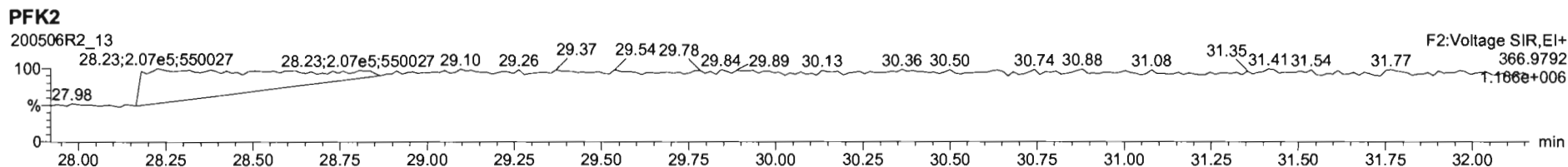
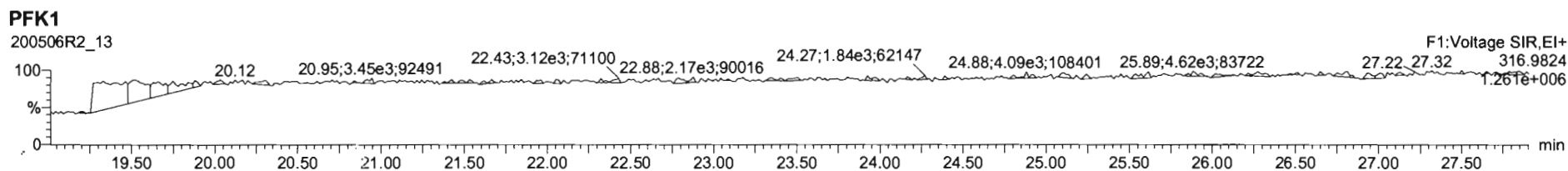
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Last Altered: Thursday, May 07, 2020 7:18:10 AM Pacific Daylight Time  
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Name: 200506R2\_13, Date: 06-May-2020, Time: 22:52:12, ID: 2000951-08 PDI-159SC-A-06-07-200423 12.3, Description: PDI-159SC-A-06-07-200423



Dataset: U:\VG12.PRO\Results\200506R2\200506R2-14.qld

Last Altered: Thursday, May 07, 2020 10:26:18 AM Pacific Daylight Time  
Printed: Thursday, May 07, 2020 11:39:48 AM Pacific Daylight Time

*GRB 05/07/2020*

*CT 05/11/2020*

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200506R2\_14, Date: 06-May-2020, Time: 23:38:22, ID: 2000951-09 PDI-159SC-A-07-08-200423 12.26, Description: PDI-159SC-A-07-08-200423

#	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	0.947	10.066	26.006		1.001				0.0531	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.066	31.086		1.001				0.0668	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.066	34.462		1.000				0.0599	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.066	34.559		1.000				0.0684	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.066	34.835		1.000				0.0802	
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.898	10.066	38.340		1.000				0.107	
7	7 OCDD	9.10e2	0.99	NO	0.933	10.066	41.333	41.35	1.000	1.000	0.59005		0.0822	0.590
8	8 2,3,7,8-TCDF			NO	0.787	10.066	25.057		1.001				0.0427	
9	9 1,2,3,7,8-PeCDF			NO	0.910	10.066	29.773		1.001				0.0353	
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.066	30.774		1.001				0.0349	
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	10.066	33.590		1.000				0.0374	
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.066	33.717		1.000				0.0356	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.066	34.316		1.001				0.0396	
14	14 1,2,3,7,8,9-HxCDF			NO	0.864	10.066	35.176		1.000				0.0621	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.871	10.066	36.949		1.001				0.0694	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.066	38.925		1.000				0.0895	
17	17 OCDF			NO	0.802	10.066	41.514		1.000				0.0960	
18	18 13C-2,3,7,8-TCDD	9.42e5	0.79	NO	1.16	10.066	25.969	25.98	1.026	1.027	166.82	84.0	0.179	
19	19 13C-1,2,3,7,8-PeCDD	7.27e5	0.63	NO	0.847	10.066	31.049	31.06	1.227	1.228	176.35	88.8	0.391	
20	20 13C-1,2,3,4,7,8-HxCDD	5.40e5	1.26	NO	0.750	10.066	34.463	34.45	1.014	1.014	178.41	89.8	0.667	
21	21 13C-1,2,3,6,7,8-HxCDD	6.72e5	1.25	NO	0.963	10.066	34.575	34.56	1.017	1.017	173.11	87.1	0.519	
22	22 13C-1,2,3,7,8,9-HxCDD	5.73e5	1.22	NO	0.838	10.066	34.844	34.83	1.025	1.025	169.66	85.4	0.597	
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.31e5	1.06	NO	0.641	10.066	38.331	38.33	1.128	1.128	166.73	83.9	0.642	
24	24 13C-OCDD	6.56e5	0.92	NO	0.586	10.066	41.321	41.33	1.216	1.216	277.57	69.9	0.439	
25	25 13C-2,3,7,8-TCDF	1.17e6	0.78	NO	1.03	10.066	25.030	25.03	0.989	0.989	156.93	79.0	0.278	
26	26 13C-1,2,3,7,8-PeCDF	1.12e6	1.59	NO	0.845	10.066	29.741	29.75	1.176	1.176	184.77	93.0	0.628	
27	27 13C-2,3,4,7,8-PeCDF	1.06e6	1.60	NO	0.814	10.066	30.731	30.74	1.215	1.215	181.30	91.3	0.652	
28	28 13C-1,2,3,4,7,8-HxCDF	6.96e5	0.51	NO	1.00	10.066	33.603	33.59	0.989	0.988	171.72	86.4	0.518	
29	29 13C-1,2,3,6,7,8-HxCDF	8.47e5	0.52	NO	1.14	10.066	33.726	33.71	0.992	0.992	184.66	92.9	0.458	
30	30 13C-2,3,4,6,7,8-HxCDF	7.32e5	0.50	NO	1.02	10.066	34.293	34.28	1.009	1.009	177.63	89.4	0.510	
31	31 13C-1,2,3,7,8,9-HxCDF	5.67e5	0.50	NO	0.845	10.066	35.184	35.18	1.035	1.035	166.42	83.8	0.617	



Dataset: U:\VG12.PRO\Results\200506R2\200506R2-14.qld

Last Altered: Thursday, May 07, 2020 10:26:18 AM Pacific Daylight Time  
Printed: Thursday, May 07, 2020 11:39:48 AM Pacific Daylight Time

Name: 200506R2\_14, Date: 06-May-2020, Time: 23:38:22, ID: 2000951-09 PDI-159SC-A-07-08-200423 12.26, Description: PDI-159SC-A-07-08-200423

#	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	5.32e5	0.44	NO	0.771	10.066	36.913	36.91	1.086	1.086	170.94	86.0	0.632	
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.19e5	0.41	NO	0.482	10.066	38.922	38.92	1.145	1.145	164.13	82.6	1.01	
34	34 13C-OCDF	7.47e5	0.87	NO	0.669	10.066	41.491	41.51	1.221	1.222	276.91	69.7	0.384	
35	35 37Cl-2,3,7,8-TCDD	3.63e5			1.10	10.066	25.999	25.99	1.028	1.027	67.789	85.3	0.0690	
36	36 13C-1,2,3,4-TCDD	9.67e5	0.80	NO	1.00	10.066	25.350	25.30	1.000	1.000	198.68	100	0.208	
37	37 13C-1,2,3,4-TCDF	1.43e6	0.80	NO	1.00	10.066	23.560	23.52	1.000	1.000	198.68	100	0.287	
38	38 13C-1,2,3,4,6,9-HxCDF	8.01e5	0.50	NO	1.00	10.066	34.000	33.98	1.000	1.000	198.68	100	0.521	
39	39 Total Tetra-Dioxins				0.947	10.066	24.620		0.000				0.0320	
40	40 Total Penta-Dioxins				0.942	10.066	29.960		0.000				0.0254	
41	41 Total Hexa-Dioxins				0.915	10.066	33.635		0.000				0.0457	
42	42 Total Hepta-Dioxins				0.898	10.066	37.640		0.000				0.0605	
43	43 Total Tetra-Furans				0.787	10.066	23.610		0.000		0.71422		0.0427	0.714
44	44 1st Func. Penta-Furans				0.910	10.066	27.090		0.000				0.00918	
45	45 Total Penta-Furans				0.910	10.066	29.275		0.000		0.00000		0.0165	0.173
46	46 Total Hexa-Furans				0.922	10.066	33.555		0.000		0.034807		0.0205	0.0350
47	47 Total Hepta-Furans				0.871	10.066	37.835		0.000				0.0458	

P10

Dataset: U:\VG12.PRO\Results\200506R2\200506R2-14.qld

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Name: 200506R2\_14, Date: 06-May-2020, Time: 23:38:22, ID: 2000951-09 PDI-159SC-A-07-08-200423 12.26, Description: PDI-159SC-A-07-08-200423

**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	Total Tetra-Furans	24.18	6.960e3	6.777e3	5.087e2	5.776e2	0.88	NO	1.086e3	0.23475	0.23500	0.0427
2	Total Tetra-Furans	26.69	6.500e3	9.879e3	4.001e2	5.612e2	0.71	NO	9.613e2	0.20775	0.20800	0.0427
3	Total Tetra-Furans	26.86	9.821e3	1.061e4	5.016e2	7.558e2	0.66	NO	1.257e3	0.27172	0.27200	0.0427

**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\200506R2\200506R2-14.qld

Last Altered: Thursday, May 07, 2020 10:26:18 AM Pacific Daylight Time

Printed: Thursday, May 07, 2020 11:39:48 AM Pacific Daylight Time

Name: 200506R2\_14, Date: 06-May-2020, Time: 23:38:22, ID: 2000951-09 PDI-159SC-A-07-08-200423 12.26, Description: PDI-159SC-A-07-08-200423

**Penta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	30.12	8.348e3	9.879e3	5.252e2	4.963e2	1.06	YES	0.000e0	0.00000	0.17300	0.0362

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	33.37	1.960e3	1.809e3	6.683e1	4.791e1	1.39	NO	1.147e2	0.034807	0.035000	0.0205

**Hepta-Furans**

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

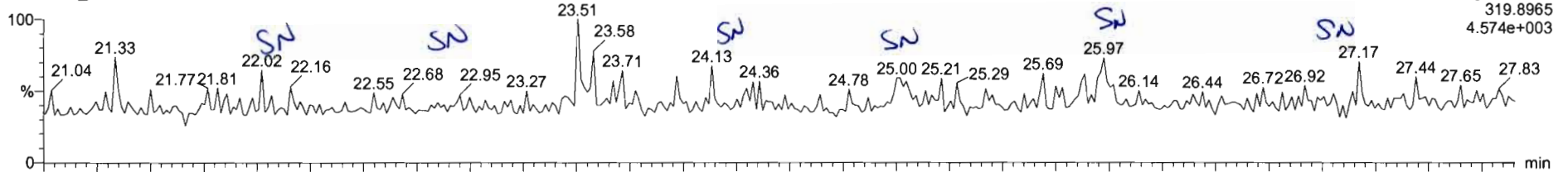
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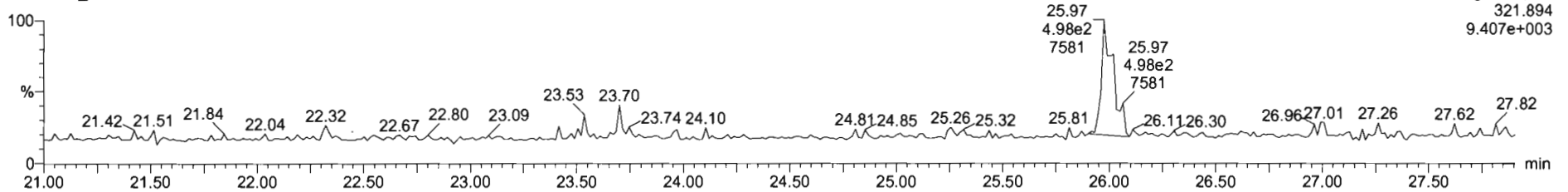
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**2,3,7,8-TCDD**

200506R2\_14

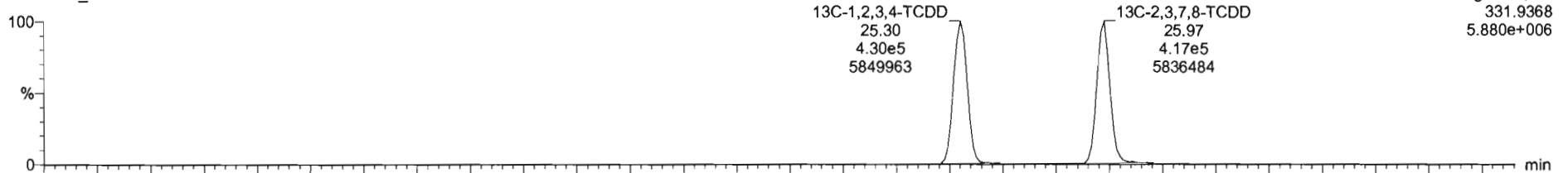


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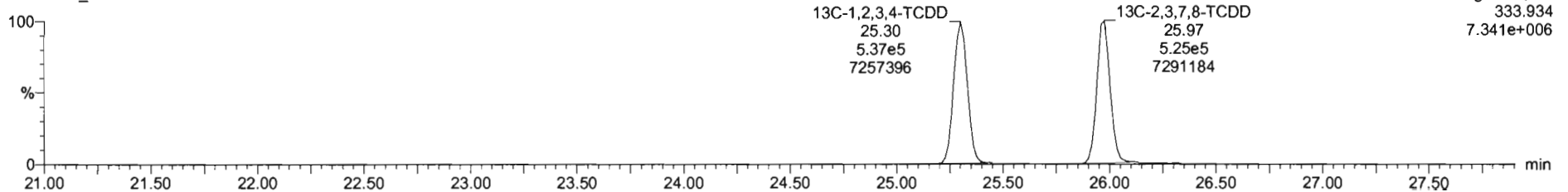


**13C-2,3,7,8-TCDD**

200506R2\_14



200506R2\_14



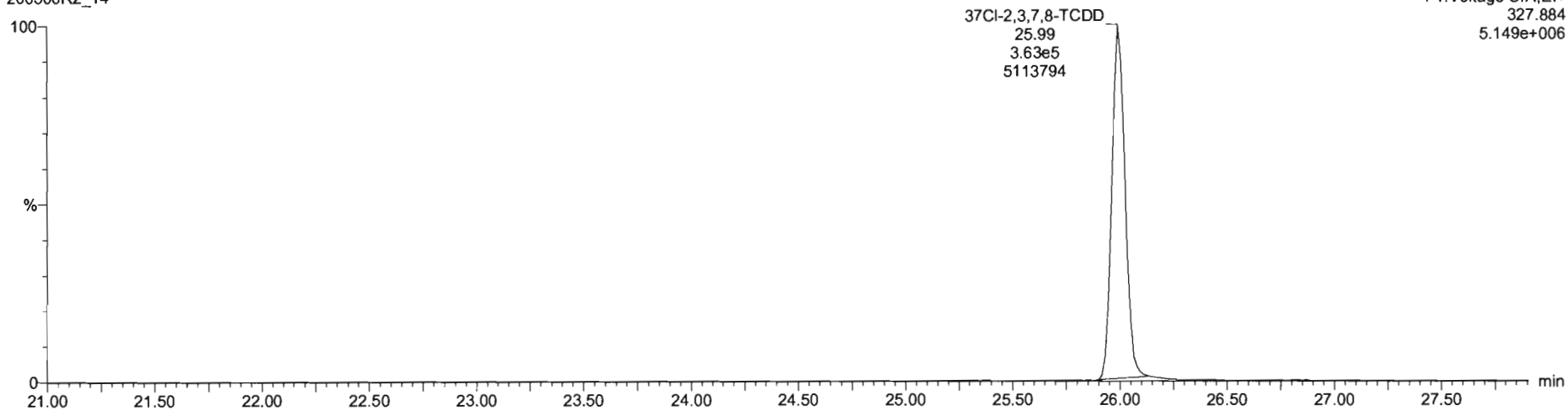
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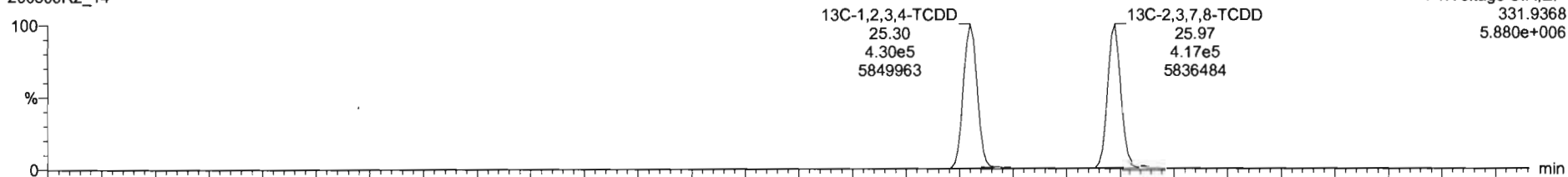
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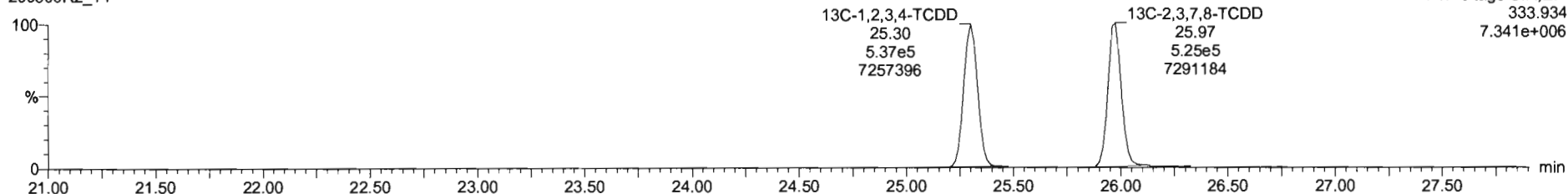


**13C-1,2,3,4-TCDD**

200506R2\_14



200506R2\_14



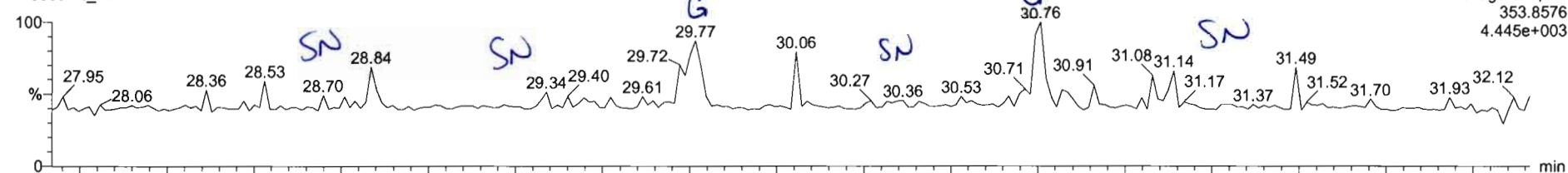
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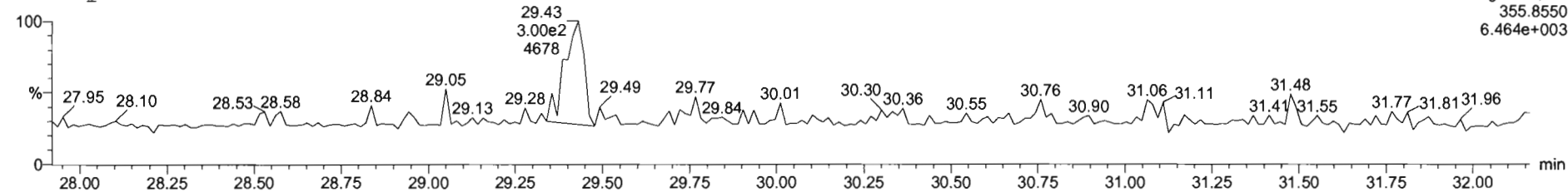
1,2,3,7,8-PeCDD

200506R2\_14



F2: Voltage SIR, EI+  
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4.445e+003

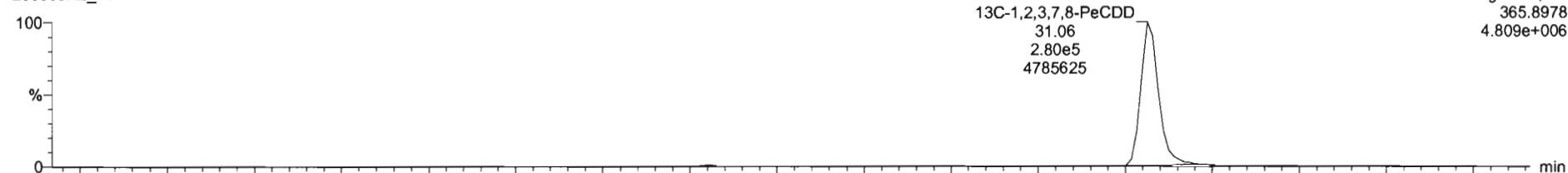
200506R2\_14



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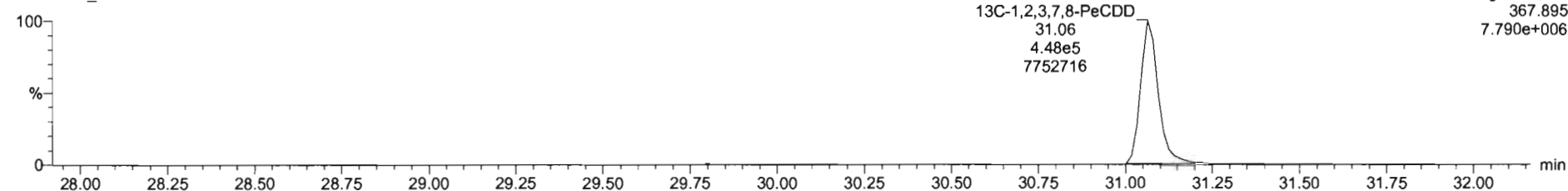
13C-1,2,3,7,8-PeCDD

200506R2\_14



F2: Voltage SIR, EI+  
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200506R2\_14



F2: Voltage SIR, EI+  
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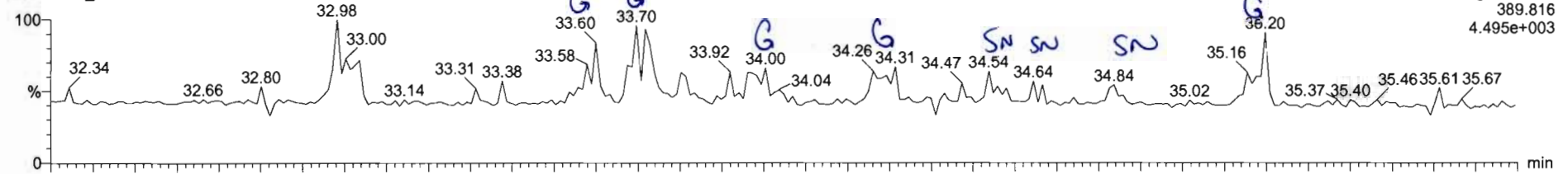
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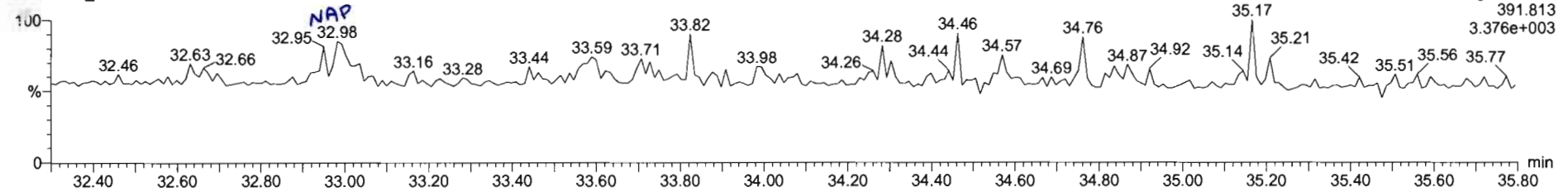
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1,2,3,4,7,8-HxCDD

200506R2\_14

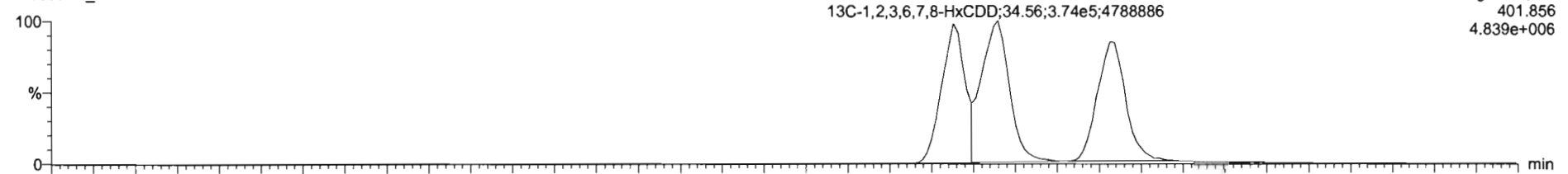


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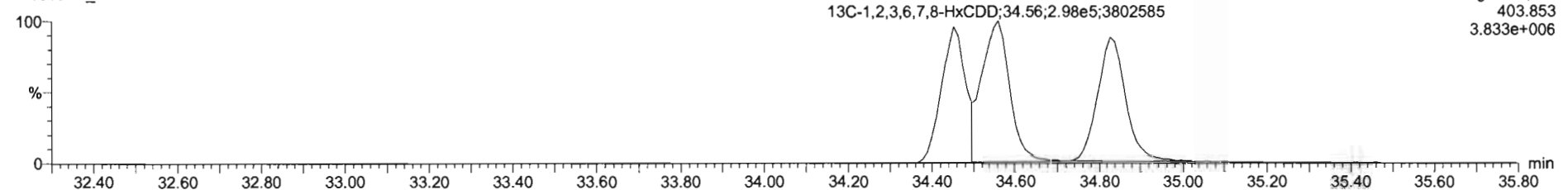


13C-1,2,3,4,7,8-HxCDD

200506R2\_14



200506R2\_14



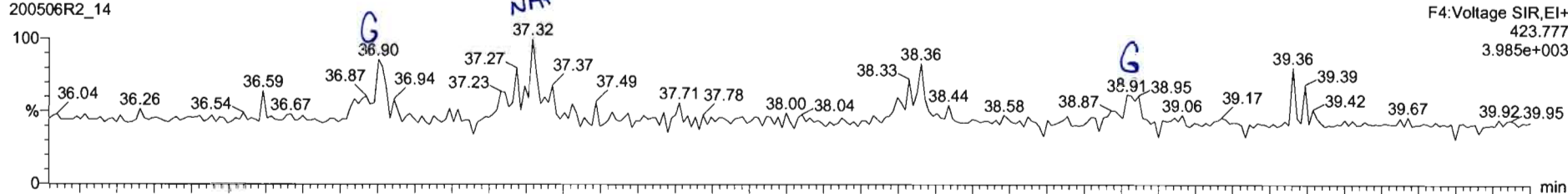
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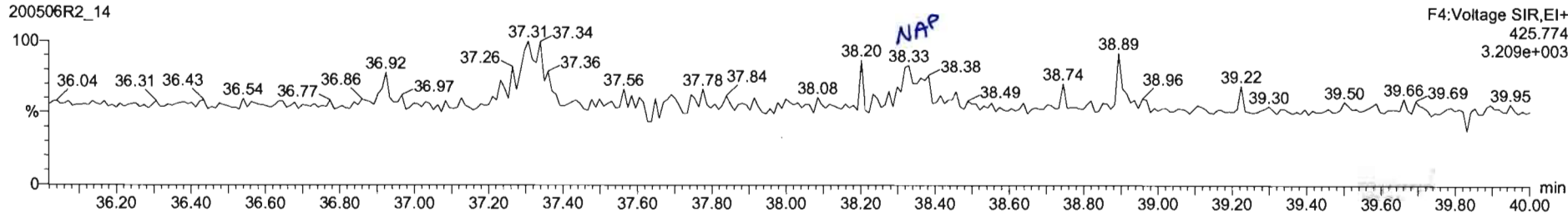
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1,2,3,4,6,7,8-HpCDD

200506R2\_14

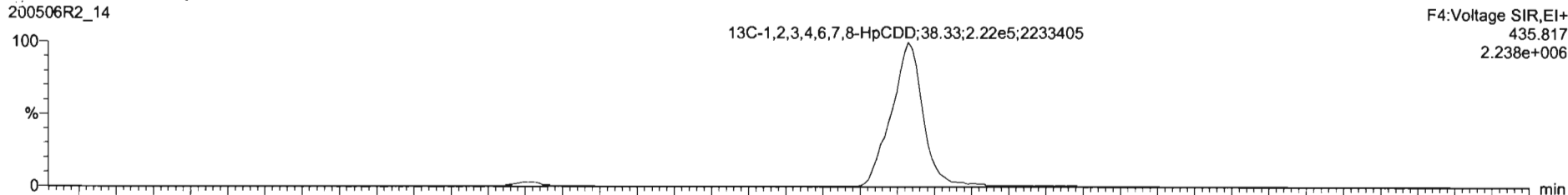


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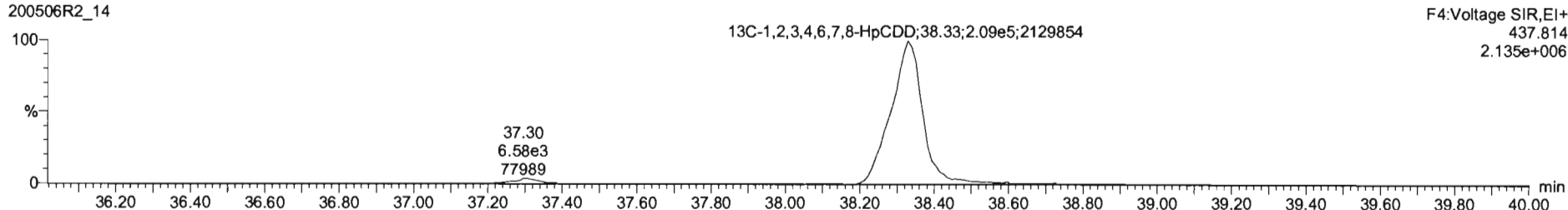


13C-1,2,3,4,6,7,8-HpCDD

200506R2\_14



200506R2\_14

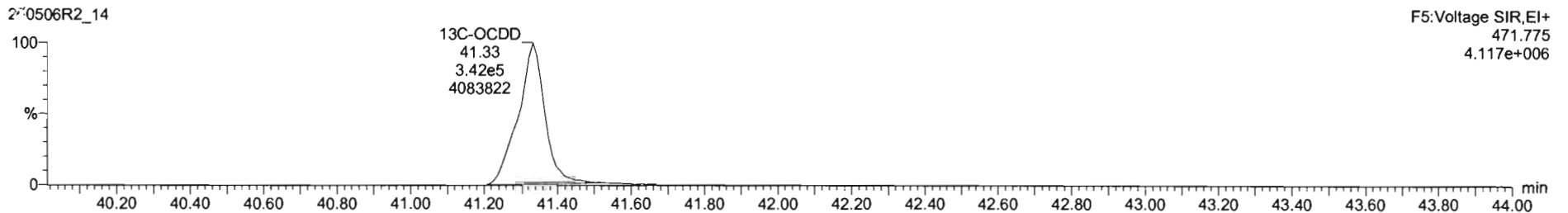
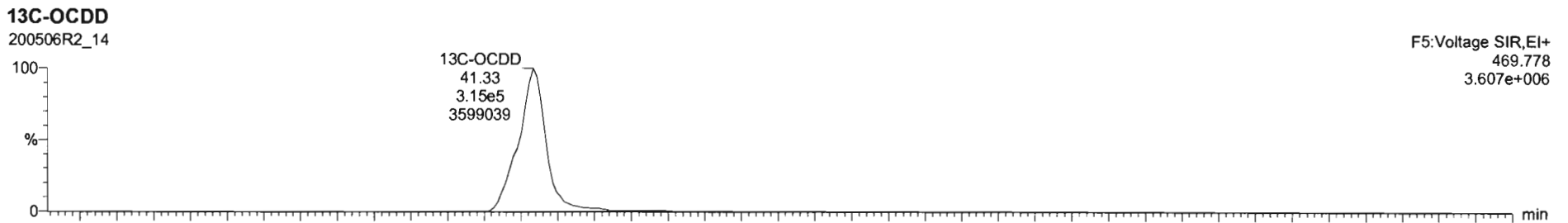
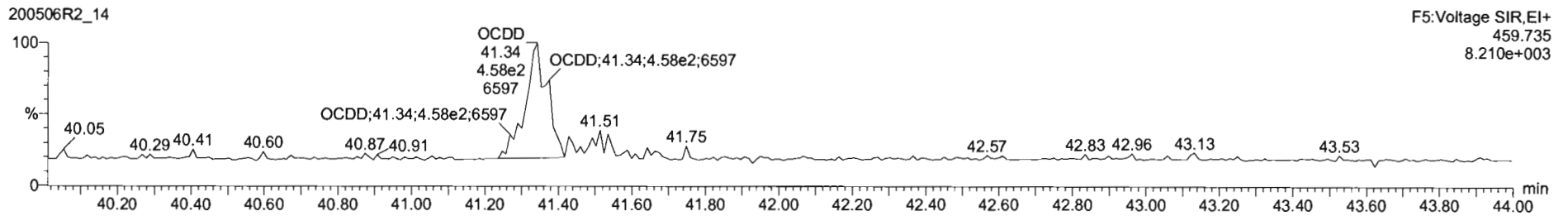
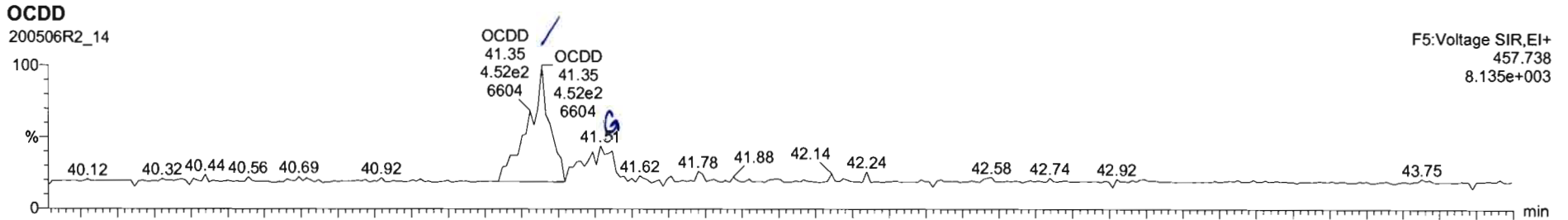




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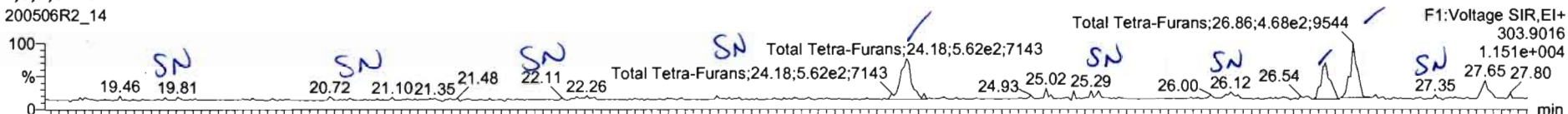
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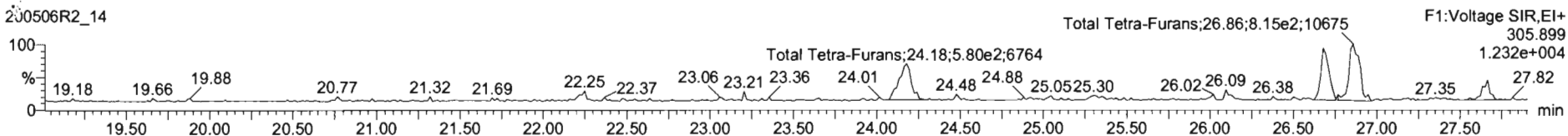
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2,3,7,8-TCDF

200506R2\_14

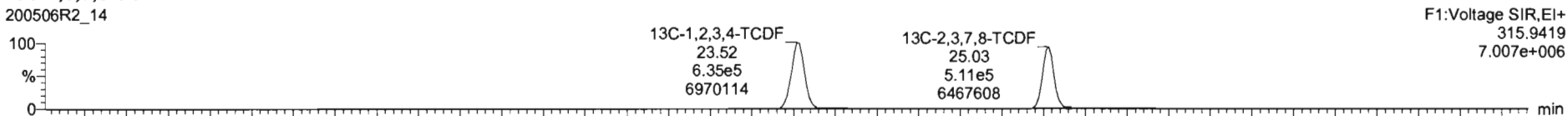


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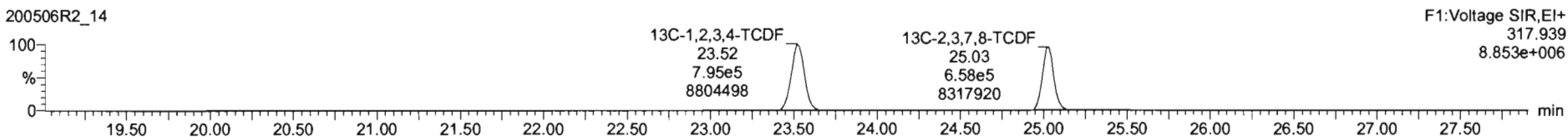


13C-2,3,7,8-TCDF

200506R2\_14

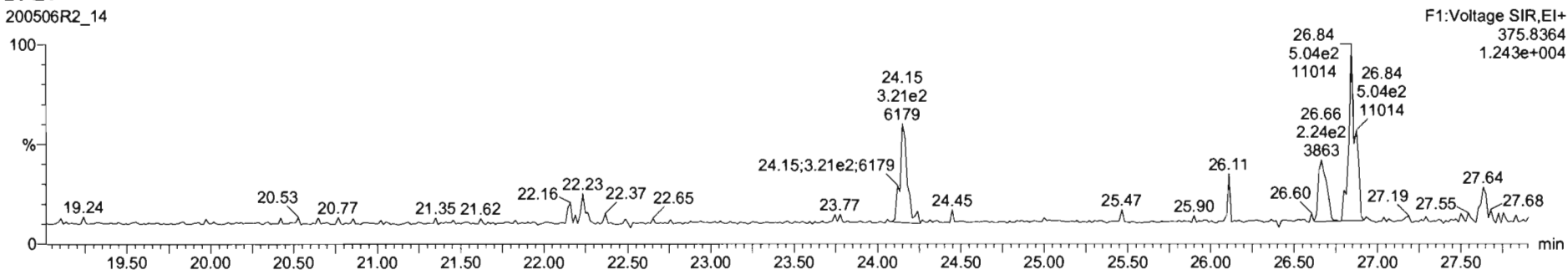


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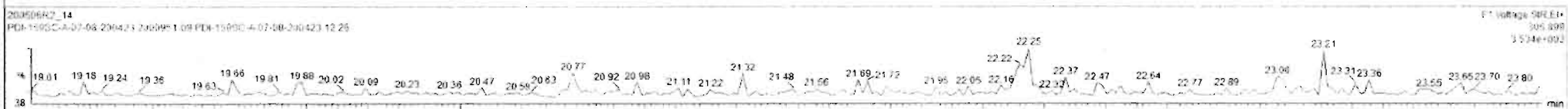
DPE1

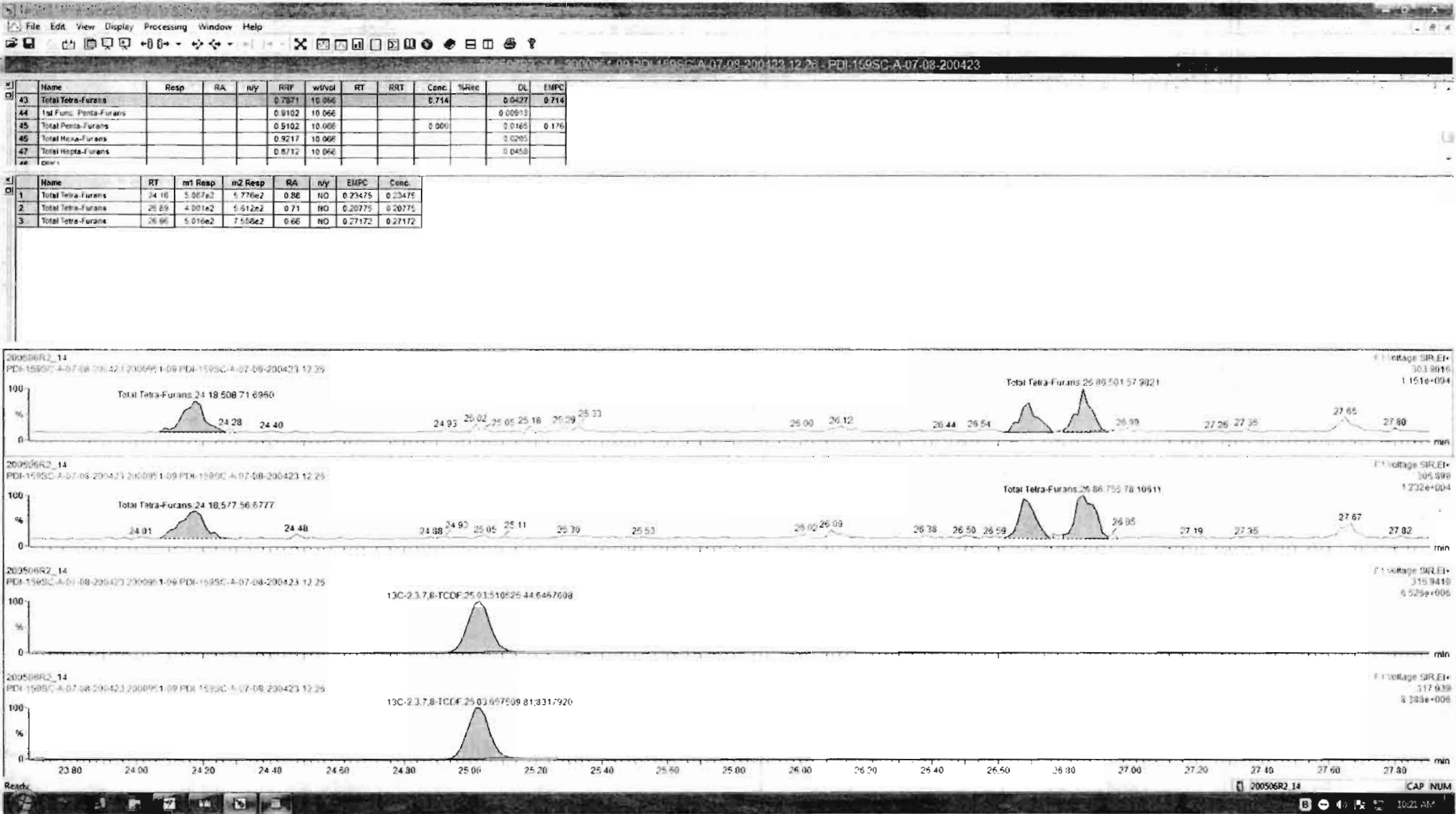
200506R2\_14



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7871	10.066			0.208		0.0427	0.583
44 1st Func. Penta-Furans				0.9152	10.066					0.00919	
45 Total Penta-Furans				0.9152	10.066			0.000		0.0185	0.176
46 Total Hexa-Furans				0.9217	10.066					0.0205	
47 Total Hepta-Furans				0.8712	10.066					0.0458	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	26.86	4.684e2	8.148e2	0.77	YES	0.27300	0.00000
2 Total Tetra-Furans	28.89	4.501e2	5.635e2	0.71	NO	0.20600	0.20825
3 Total Tetra-Furans	24.18	5.823e2	5.799e2	0.97	YES	0.22700	0.08000





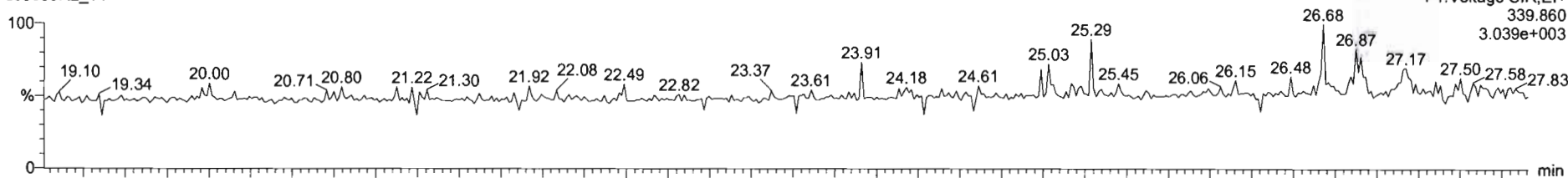
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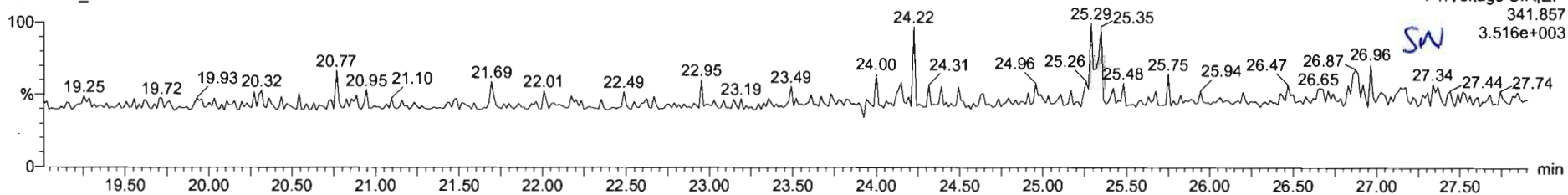
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1st Func. Penta-Furans

200506R2\_14

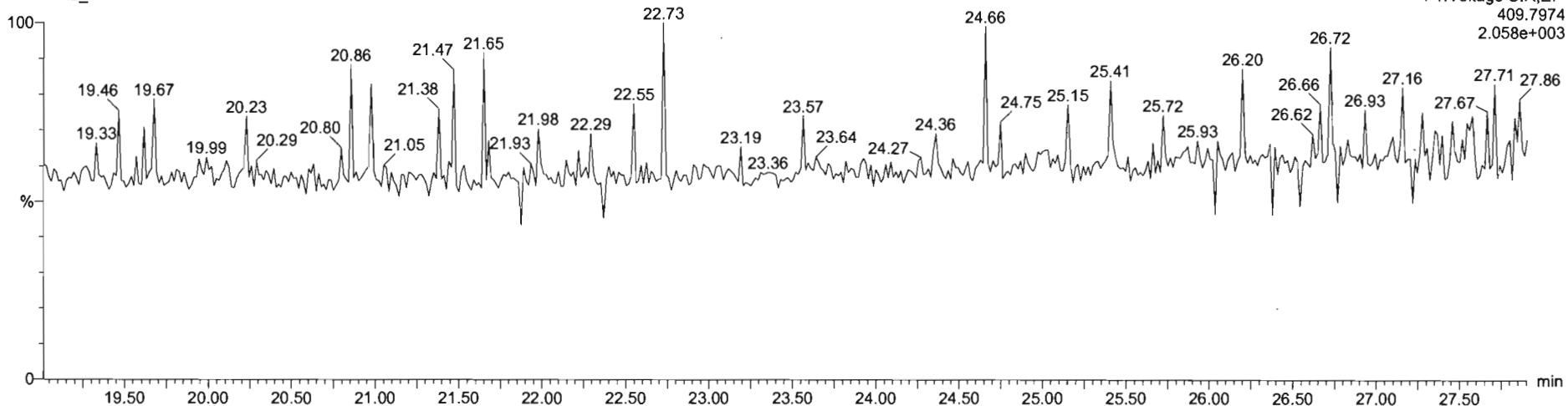


200506R2\_14



DPE6

200506R2\_14

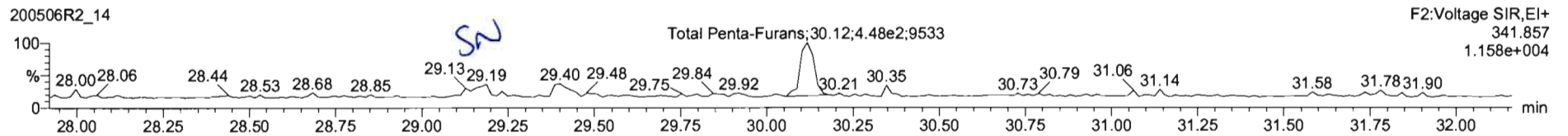
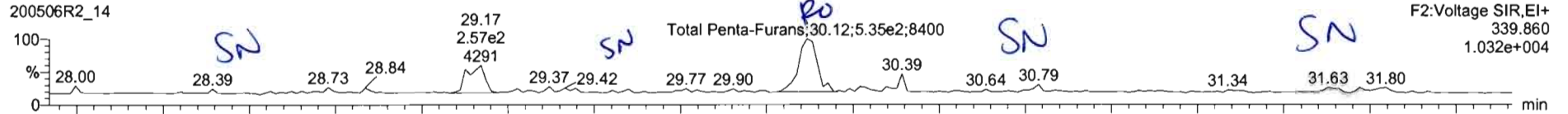


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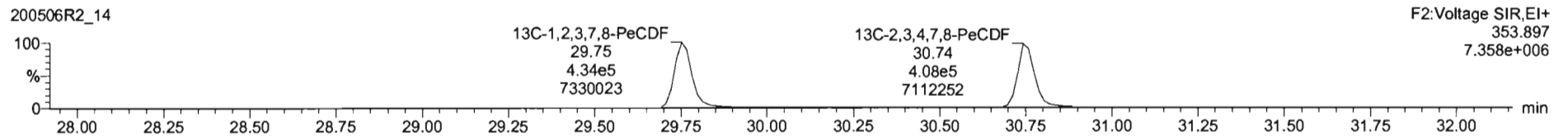
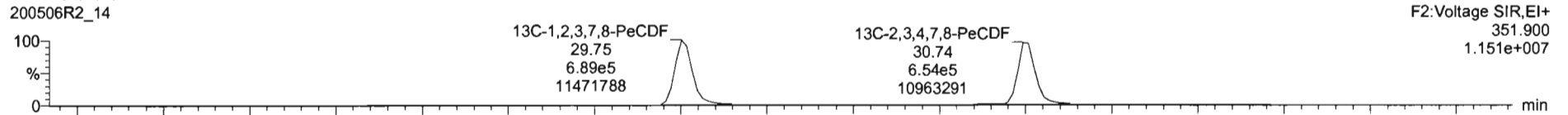
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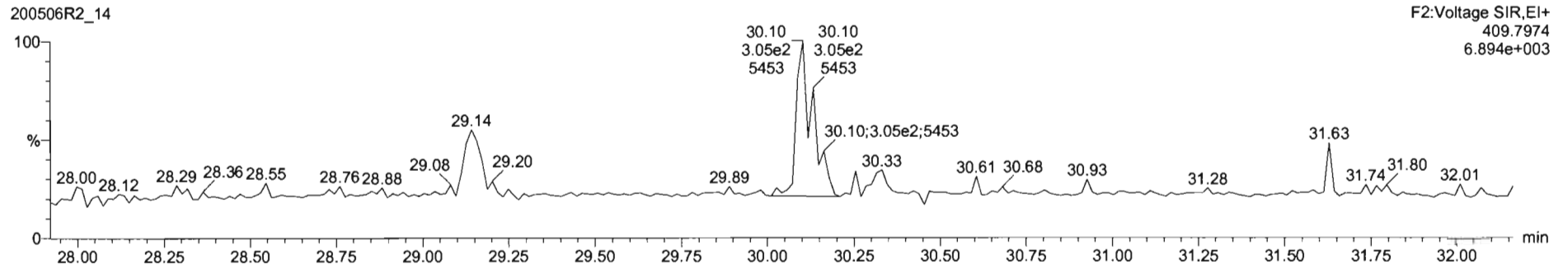
**1,2,3,7,8-PeCDF**



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

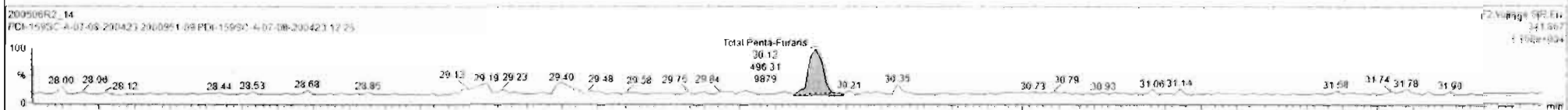
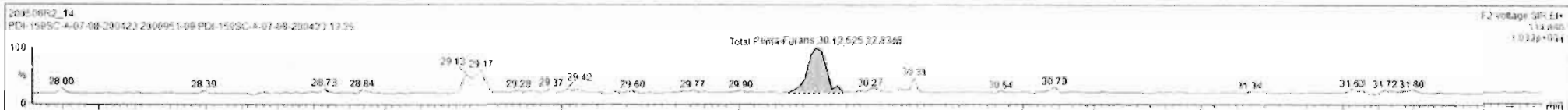


**DPE2**



Name	Resp	RA	n/y	PRF	wVol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7871	10.066			0.714		0.0427	0.714
44 1st Func. Penta-Furans				0.9102	10.066					0.00915	
45 Total Penta-Furans				0.9102	10.066			0.000		0.0165	0.173
46 Total Hexa-Furans				0.9217	10.066					0.0281	
47 Total Hepta-Furans				0.8712	10.066					0.0458	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	30.12	5.25e+2	4.96e+2	1.06	YES	0.17261	0.00000

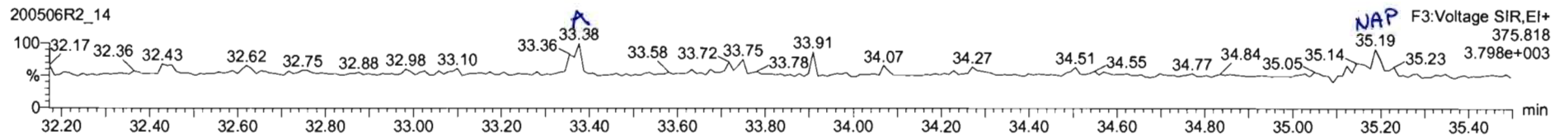
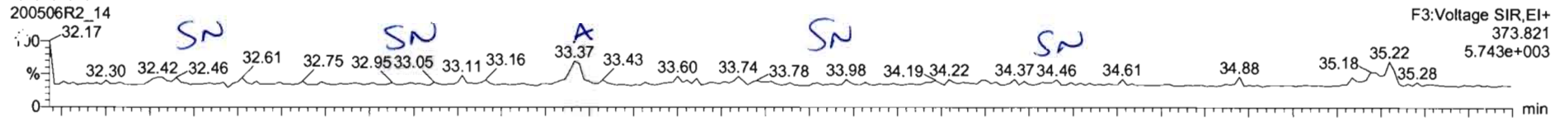


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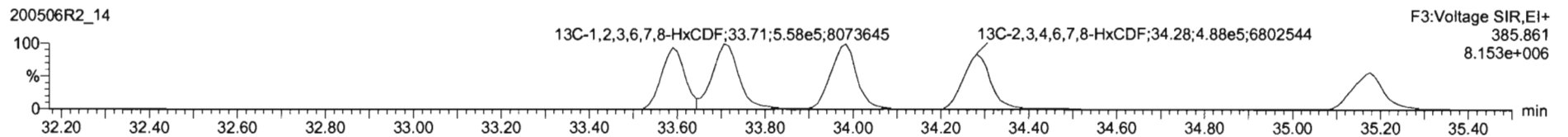
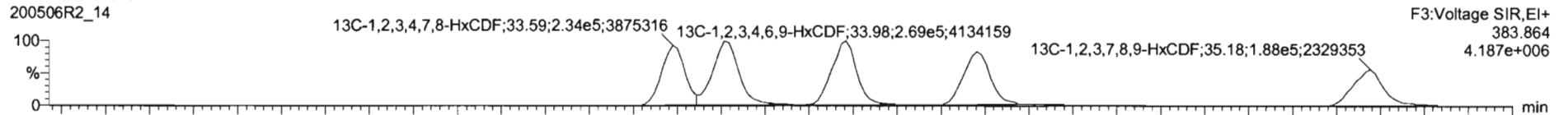
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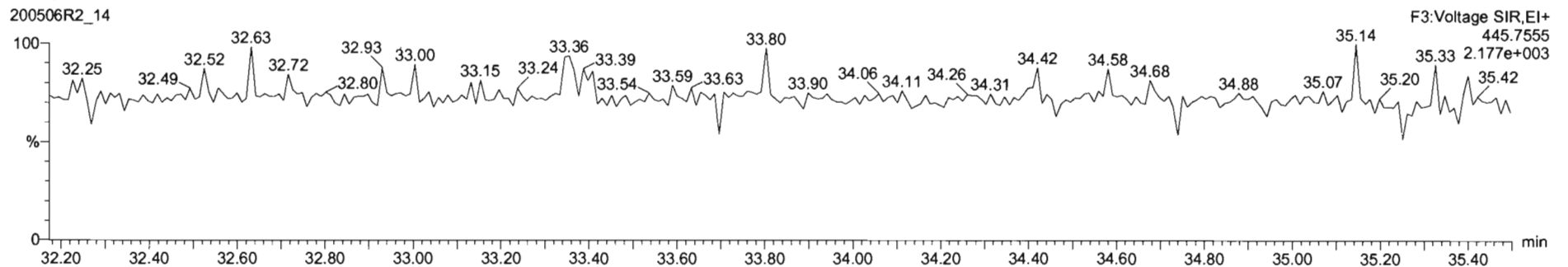
**1,2,3,4,7,8-HxCDF**



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



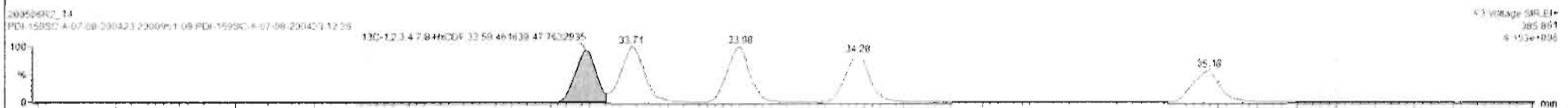
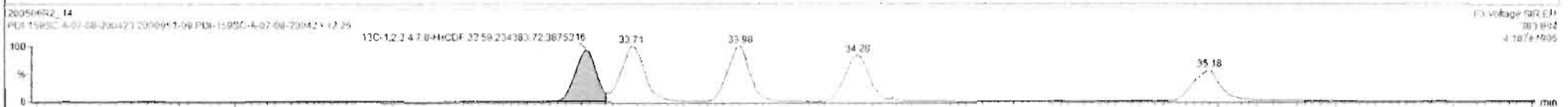
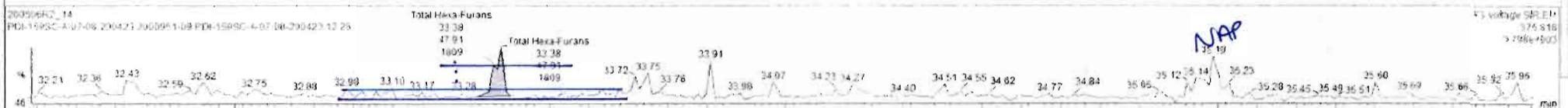
**DPE3**





Name	Resp	RA	n/y	RRF	wpVol	RT	RRT	Conc	%Rec	GL	EMPC
43 Total Tetra-Furans				0.7871	10.066			0.714	0.0427	0.714	
44 1st Func. Penta-Furans				0.9102	10.066				0.00918		
45 Total Penta-Furans				0.9102	10.066			0.000	0.0165	0.175	
46 Total Hexa-Furans				0.9217	10.066			0.0348	0.0295	0.0348	
47 Total Hepta-Furans				0.8712	10.066				0.0458		

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	33.37	6.982e1	4.791e1	1.39	NO	0.034807	0.034807



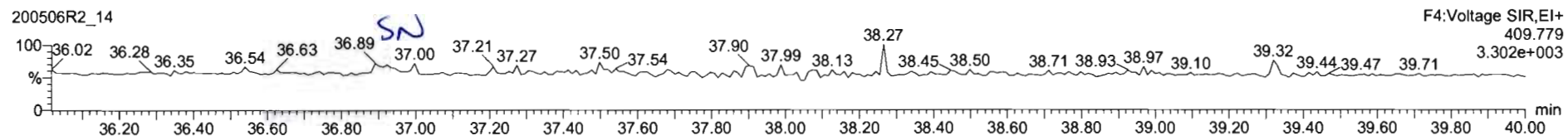
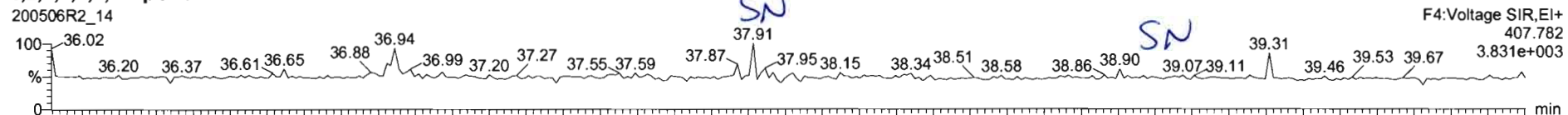
Dataset: Untitled

Last Altered: Thursday, May 07, 2020 7:18:10 AM Pacific Daylight Time

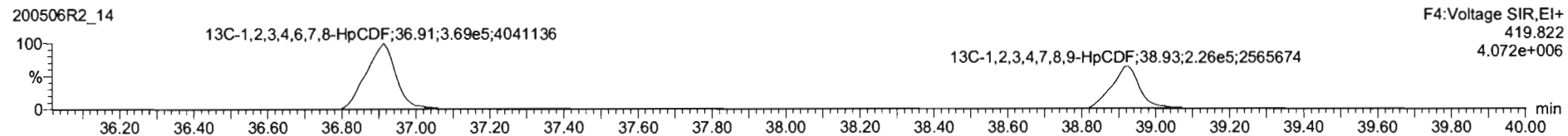
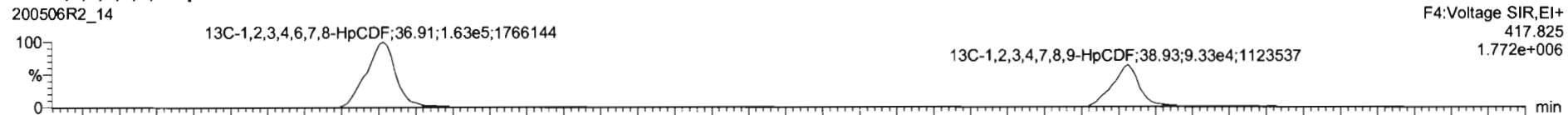
Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

Name: 200506R2\_14, Date: 06-May-2020, Time: 23:38:22, ID: 2000951-09 PDI-159SC-A-07-08-200423 12.26, Description: PDI-159SC-A-07-08-200423

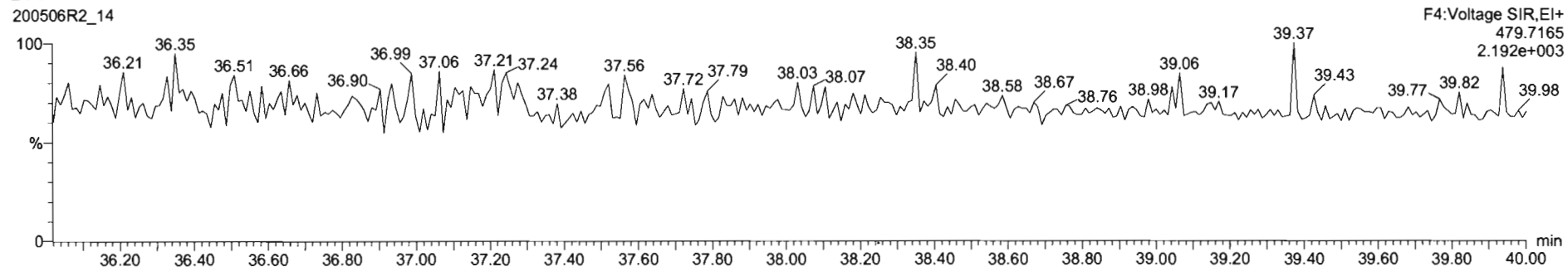
**1,2,3,4,6,7,8-HpCDF**



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



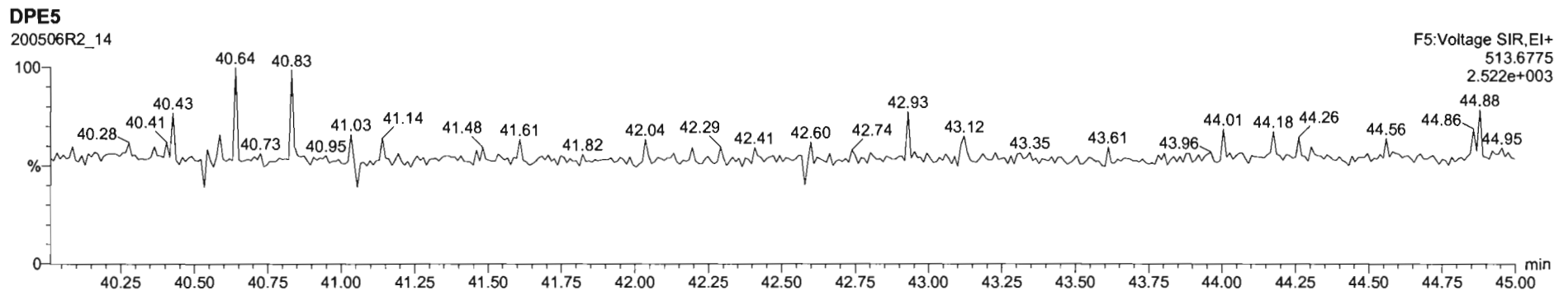
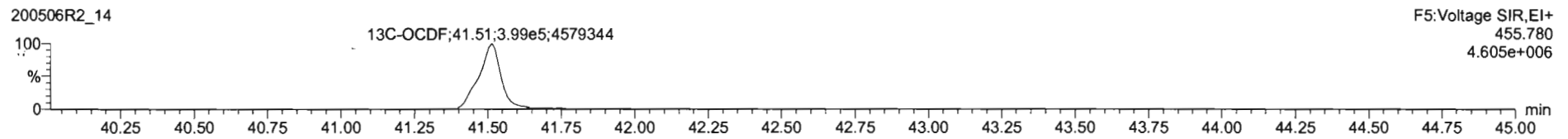
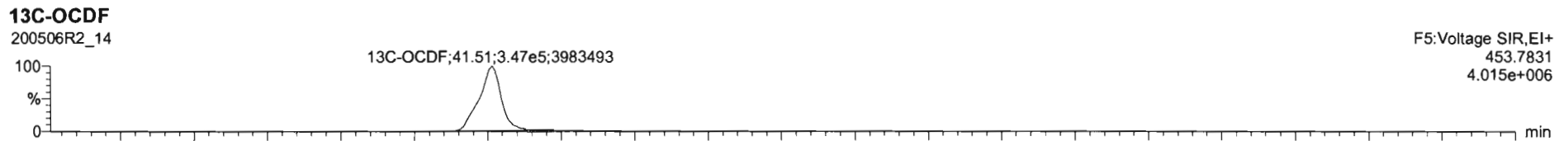
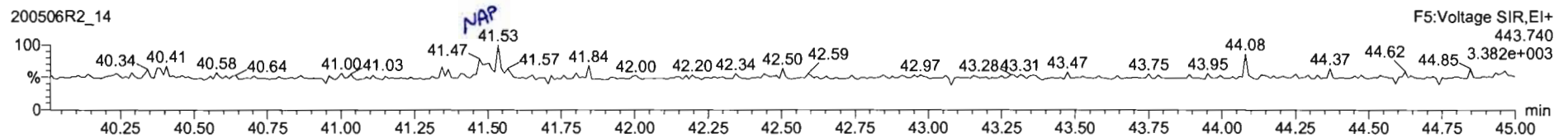
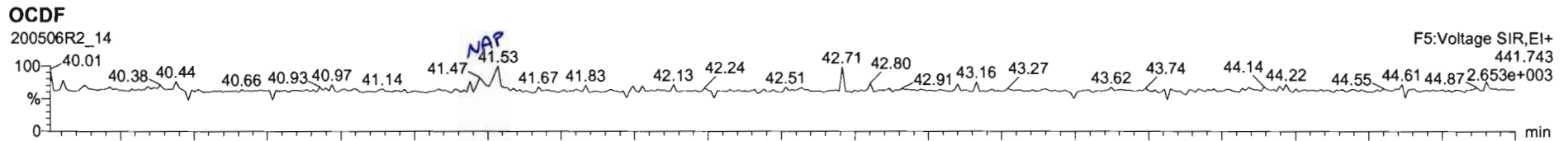
**DPE4**



Dataset: Untitled

Last Altered: Thursday, May 07, 2020 7:18:10 AM Pacific Daylight Time  
Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

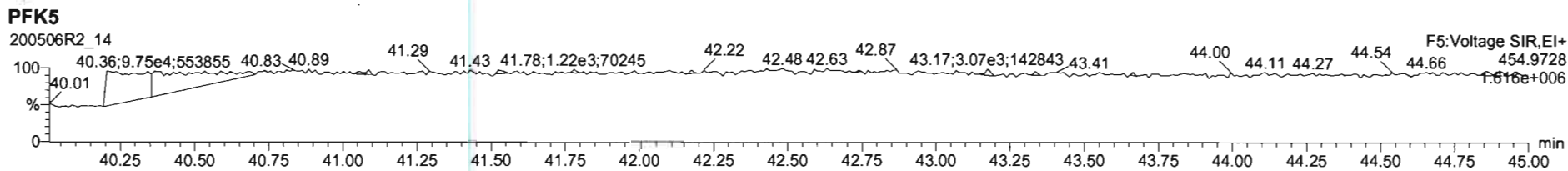
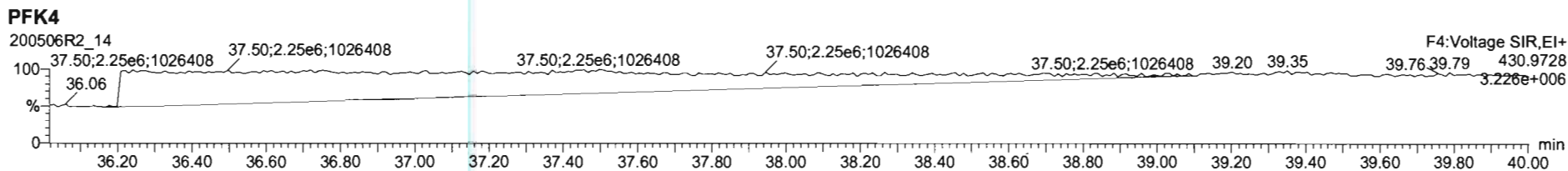
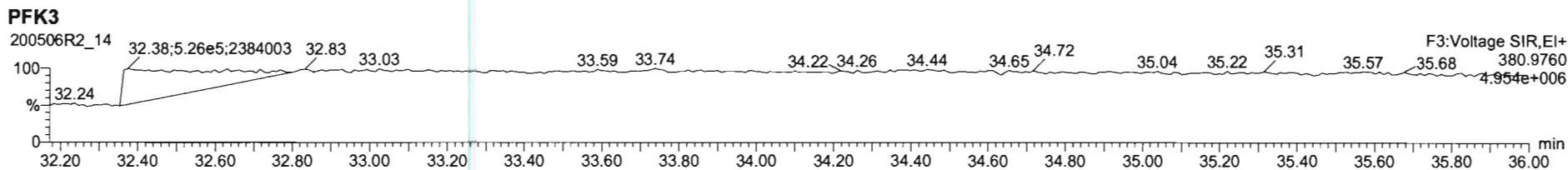
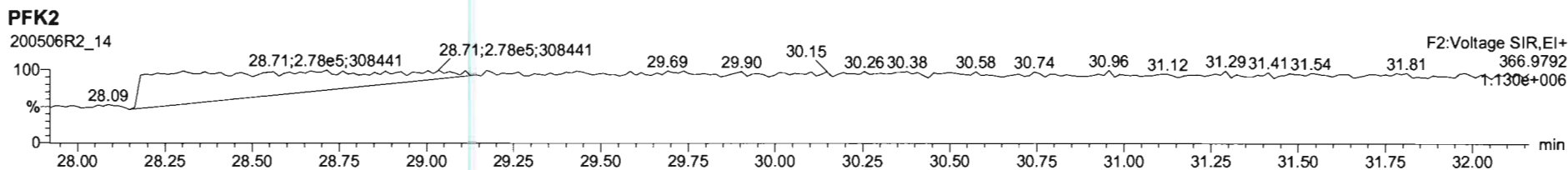
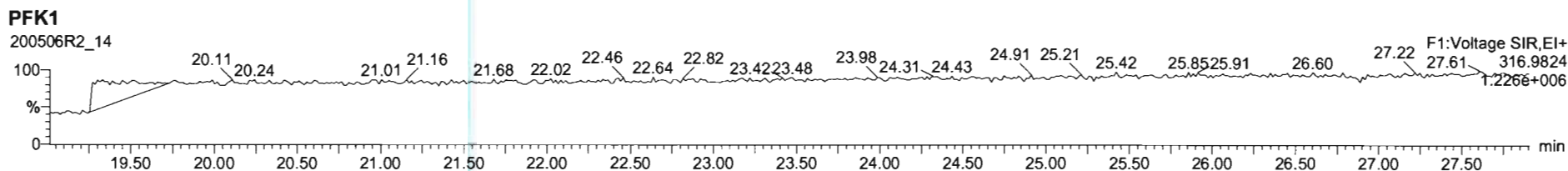
Name: 200506R2\_14, Date: 06-May-2020, Time: 23:38:22, ID: 2000951-09 PDI-159SC-A-07-08-200423 12.26, Description: PDI-159SC-A-07-08-200423



Dataset: Untitled

Last Altered: Thursday, May 07, 2020 7:18:10 AM Pacific Daylight Time  
Printed: Thursday, May 07, 2020 7:32:39 AM Pacific Daylight Time

Name: 200506R2\_14, Date: 06-May-2020, Time: 23:38:22, ID: 2000951-09 PDI-159SC-A-07-08-200423 12.26, Description: PDI-159SC-A-07-08-200423



## **CONFIRMATION**

Dataset: U:\VG7.PRO\Results\200512D1\200512D1\_5.qld

Last Altered: Tuesday, May 12, 2020 13:30:25 Pacific Daylight Time

Printed: Tuesday, May 12, 2020 13:31:26 Pacific Daylight Time

*DB 5/12/20 C7 05/15/2020*

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: 200512D1\_5, Date: 12-May-2020, Time: 12:59:11, ID: 2000951-01RE1 PDI-1159SC-A-01-02-200423 12.82, Description: PDI-1159SC-A-01-02-200423

#	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	1.09e4	0.78	NO	0.982	10.286	17.666	17.67	1.000	1.001	13.125		0.339	13.1
2	2 13C-2,3,7,8-TCDF	1.64e5	0.76	NO	1.08	10.286	17.701	17.65	1.133	1.135	153.21	78.8	0.715	
3	3 13C-1,2,3,4-TCDF	1.93e5	0.78	NO	1.00	10.286	15.660	15.54	1.000	1.000	194.43	100	0.774	

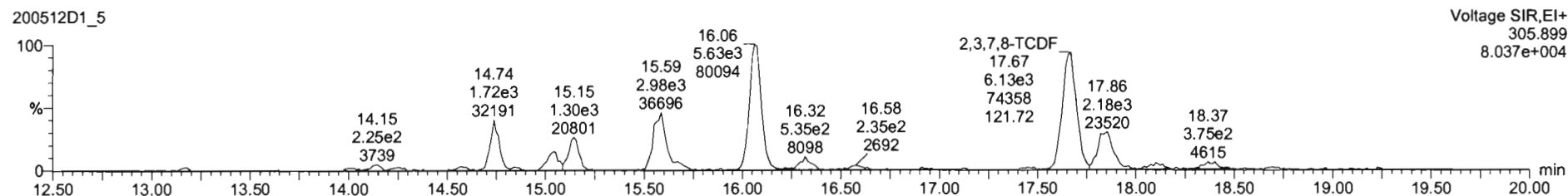
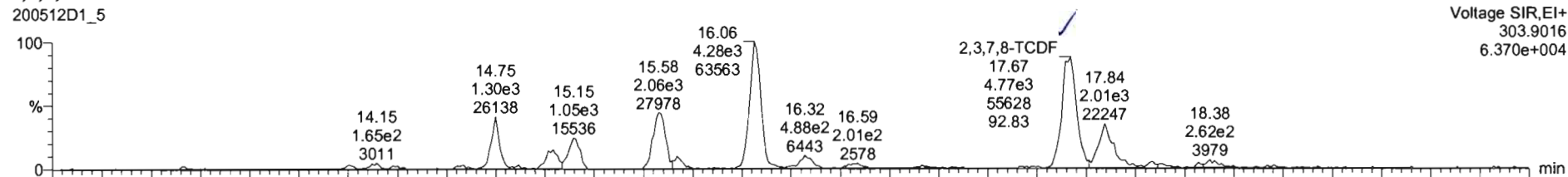
Dataset: U:\VG7.PRO\Results\200512D1\200512D1\_5.qld

Last Altered: Tuesday, May 12, 2020 13:30:25 Pacific Daylight Time  
Printed: Tuesday, May 12, 2020 13:31:44 Pacific Daylight Time

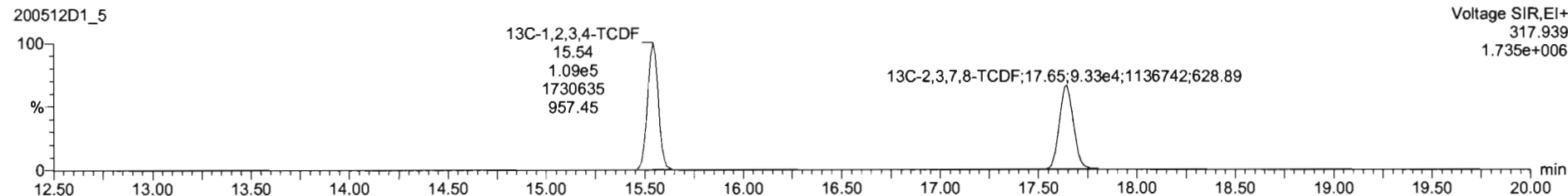
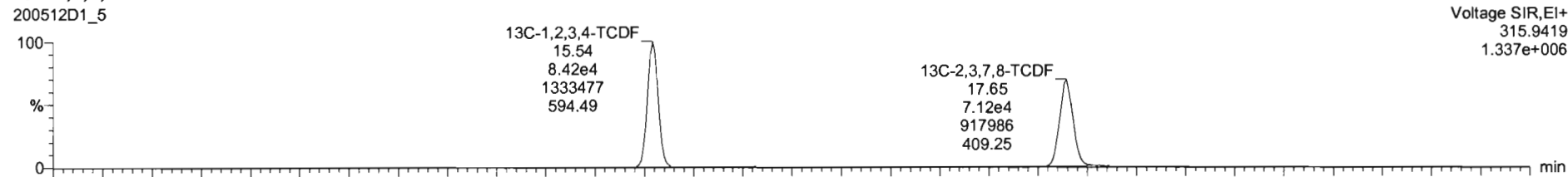
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19  
Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200512D1\_5, Date: 12-May-2020, Time: 12:59:11, ID: 2000951-01RE1 PDI-1159SC-A-01-02-200423 12.82, Description: PDI-1159SC-A-01-02-200423

2,3,7,8-TCDF



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



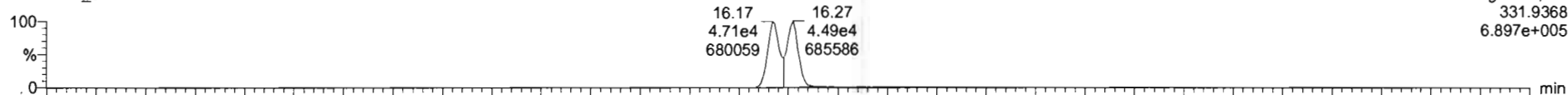
Dataset: U:\VG7.PRO\Results\200512D1\200512D1\_5.qld

Last Altered: Tuesday, May 12, 2020 13:30:25 Pacific Daylight Time  
Printed: Tuesday, May 12, 2020 13:31:44 Pacific Daylight Time

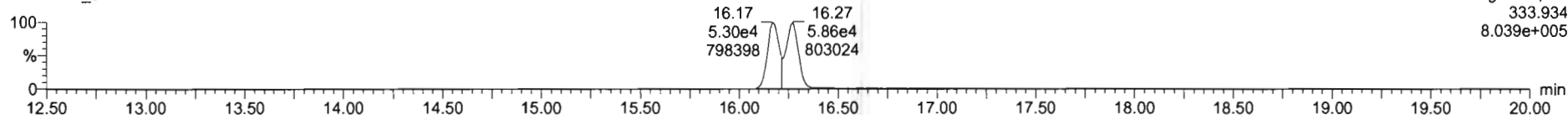
Name: 200512D1\_5, Date: 12-May-2020, Time: 12:59:11, ID: 2000951-01RE1 PDI-1159SC-A-01-02-200423 12.82, Description: PDI-1159SC-A-01-02-200423

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

200512D1\_5

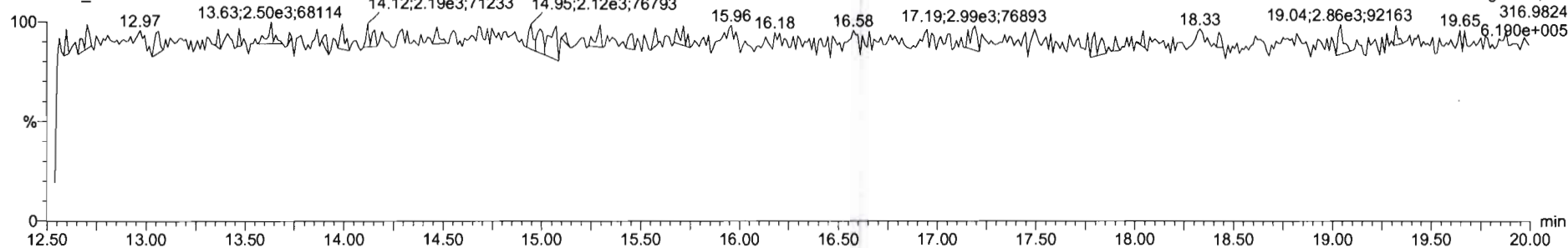


200512D1\_5



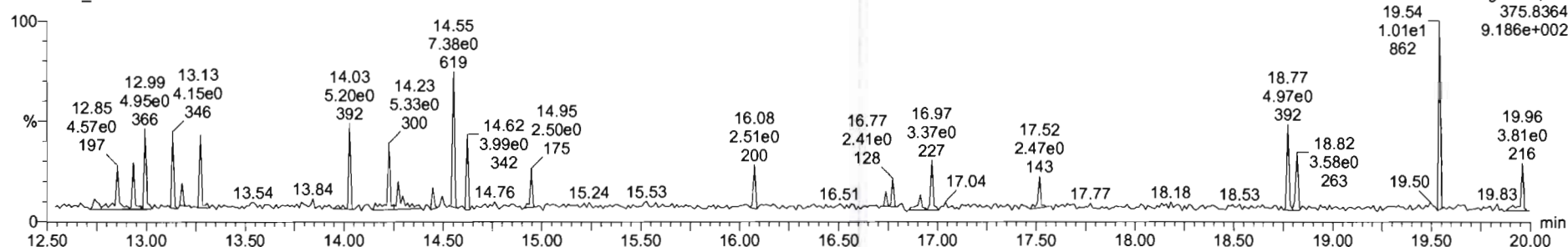
PFK1

200512D1\_5



DPE1

200512D1\_5





Dataset: U:\VG7.PRO\Results\200512D1\200512D1\_14.qld

Last Altered: Wednesday, May 13, 2020 09:30:40 Pacific Daylight Time

Printed: Wednesday, May 13, 2020 09:32:04 Pacific Daylight Time

*DB 5/13/20*  
*CTUS/13/2020*

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: 200512D1\_14, Date: 12-May-2020, Time: 17:44:32, ID: B0D0323-DUP1RE1 Duplicate, 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	9.51e3	0.75	NO	0.982	10.030	17.654	17.67	1.000	1.002	13.750		0.373	13.8
2	2 13C-2,3,7,8-TCDF	1.41e5	0.78	NO	1.08	10.030	17.689	17.63	1.133	1.136	140.89	70.7	0.673	
3	3 13C-1,2,3,4-TCDF	1.84e5	0.77	NO	1.00	10.030	15.660	15.53	1.000	1.000	199.41	100	0.728	

Dataset: U:\VG7.PRO\Results\200512D1\200512D1\_14.qld

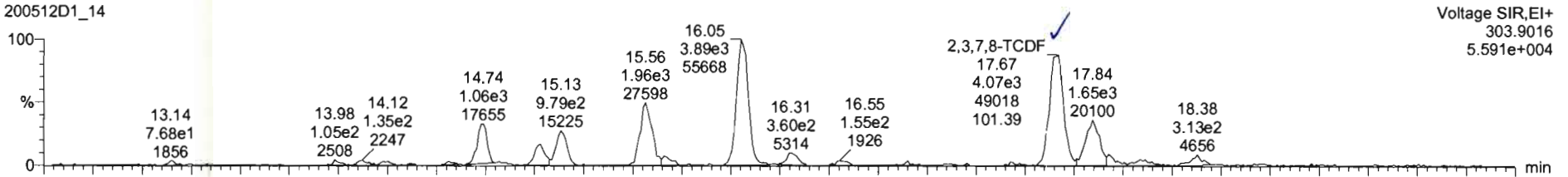
Last Altered: Wednesday, May 13, 2020 09:30:40 Pacific Daylight Time  
Printed: Wednesday, May 13, 2020 09:32:22 Pacific Daylight Time

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: 200512D1\_14, Date: 12-May-2020, Time: 17:44:32, ID: B0D0323-DUP1RE1 Duplicate, Description: Duplicate

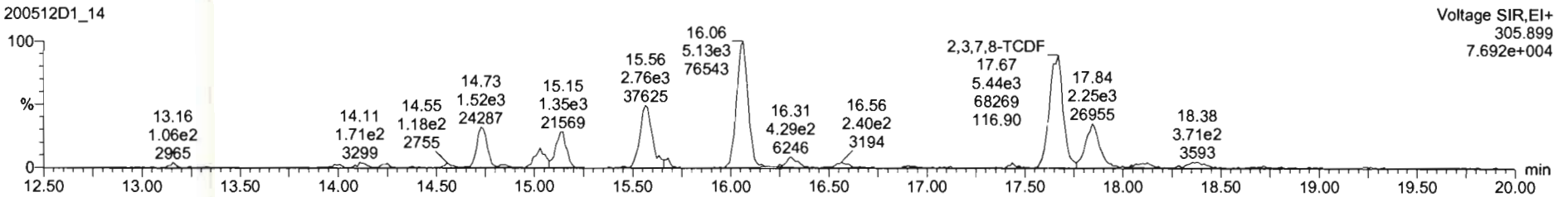
2,3,7,8-TCDF

200512D1\_14



Voltage SIR,EI+  
303.9016  
5.591e+004

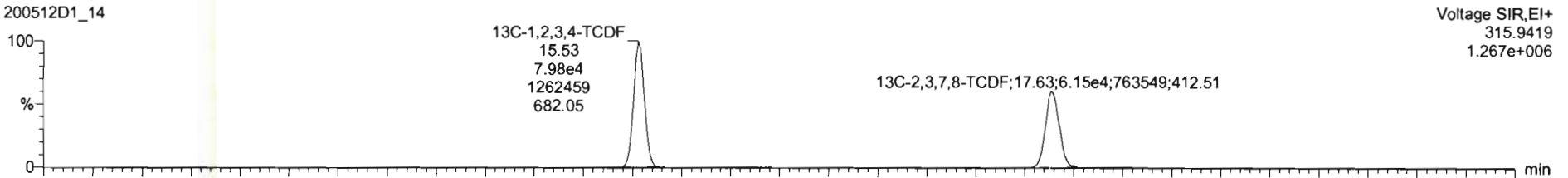
200512D1\_14



Voltage SIR,EI+  
305.899  
7.692e+004

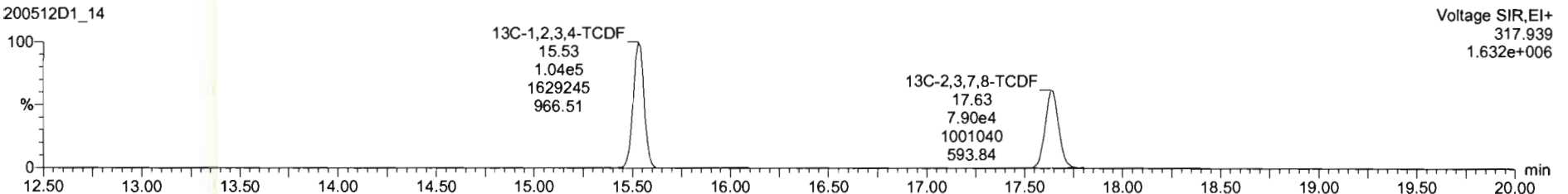
13C-2,3,7,8-TCDF

200512D1\_14



Voltage SIR,EI+  
315.9419  
1.267e+006

200512D1\_14



Voltage SIR,EI+  
317.939  
1.632e+006

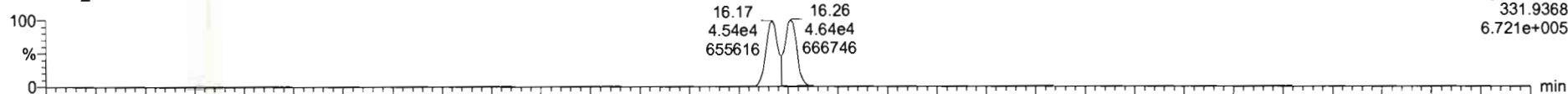
Dataset: U:\VG7.PRO\Results\200512D1\200512D1\_14.qld

Last Altered: Wednesday, May 13, 2020 09:30:40 Pacific Daylight Time  
Printed: Wednesday, May 13, 2020 09:32:22 Pacific Daylight Time

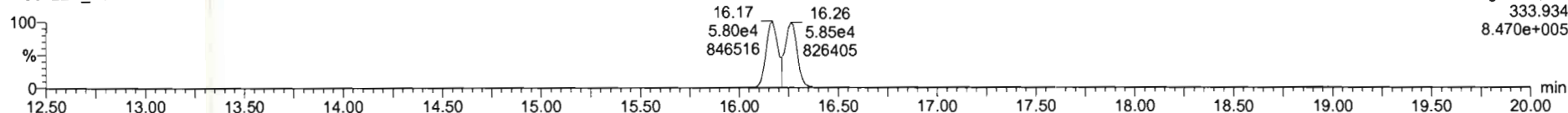
Name: 200512D1\_14, Date: 12-May-2020, Time: 17:44:32, ID: B0D0323-DUP1RE1 Duplicate, Description: Duplicate

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

200512D1\_14

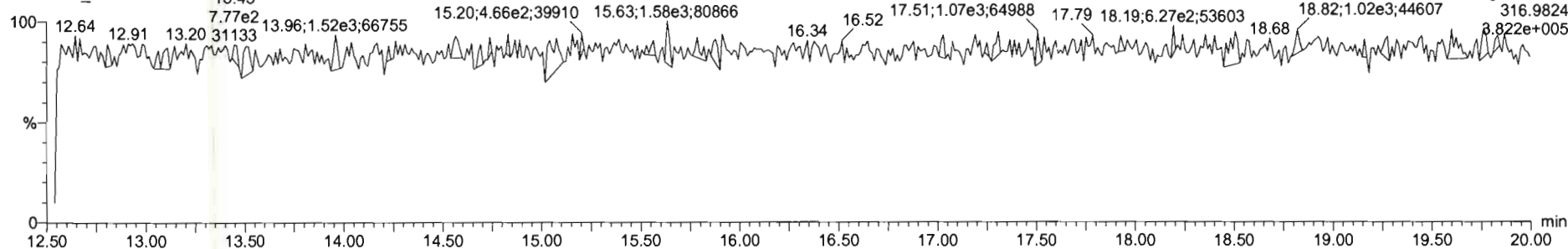


200512D1\_14



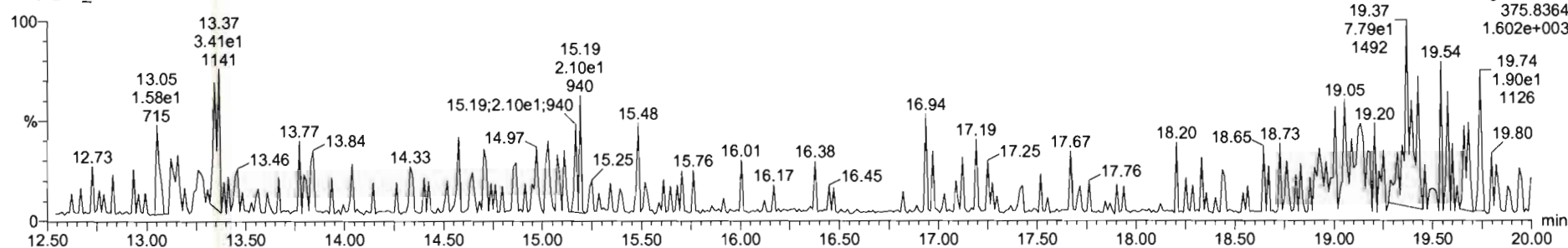
PFK1

200512D1\_14



DPE1

200512D1\_14



Dataset: U:\VG7.PRO\Results\200512D1\200512D1\_6.qld

Last Altered: Tuesday, May 12, 2020 14:07:50 Pacific Daylight Time  
Printed: Tuesday, May 12, 2020 14:14:21 Pacific Daylight Time

*DB 5/12/20*

*CT 05/13/2020*

Method: C:\MassLynx\Default.pro\Methdbl\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: 200512D1\_6, Date: 12-May-2020, Time: 13:30:54, ID: 2000951-02RE1 PDI-159SC-A-00-01-200423 16.8, Description: PDI-159SC-A-00-01-200423

	# 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	2.54e4	0.74	NO	0.982	10.493	17.654	17.66	1.000	1.001	29.394		0.464	29.4
2	2 13C-2,3,7,8-TCDF	1.68e5	0.78	NO	1.08	10.493	17.689	17.63	1.133	1.136	161.42	84.7	0.770	
3	3 13C-1,2,3,4-TCDF	1.83e5	0.80	NO	1.00	10.493	15.660	15.53	1.000	1.000	190.61	100	0.834	

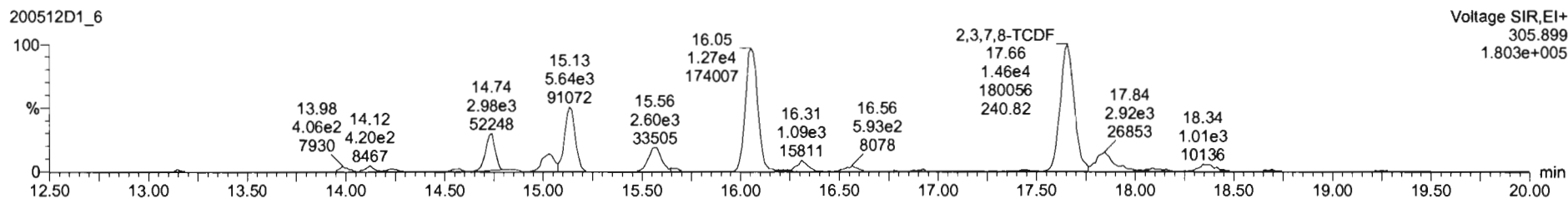
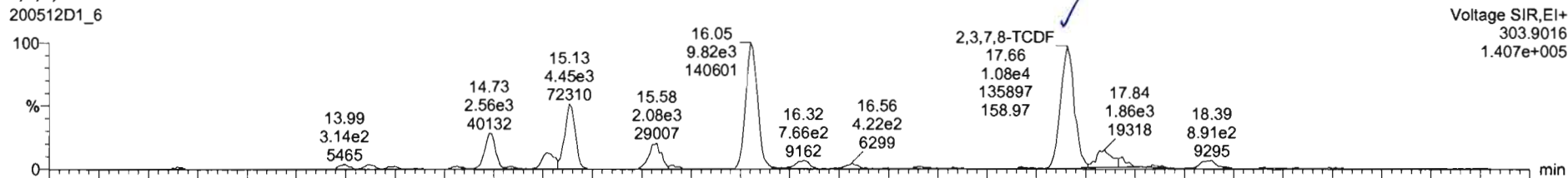
Dataset: U:\VG7.PRO\Results\200512D1\200512D1\_6.qld

Last Altered: Tuesday, May 12, 2020 14:07:50 Pacific Daylight Time  
Printed: Tuesday, May 12, 2020 14:14:45 Pacific Daylight Time

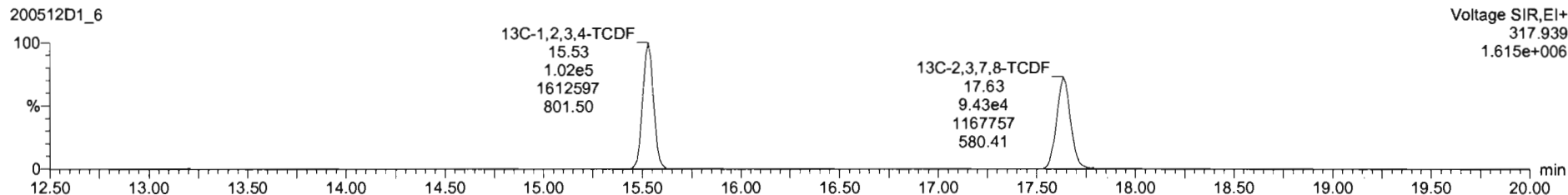
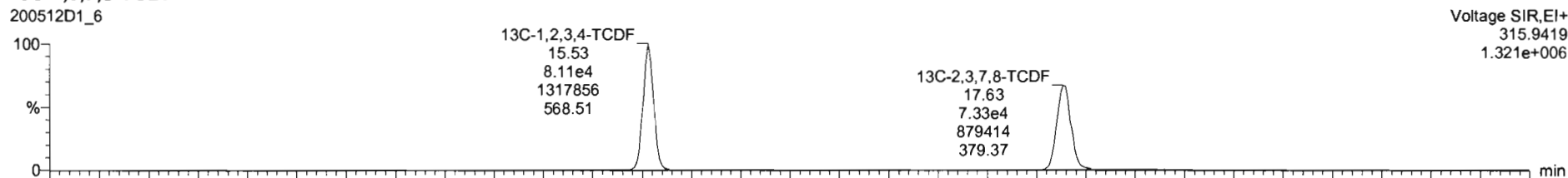
Method: C:\MassLynx\Default.pro\Methdb\tcdf.mdb 23 Mar 2020 11:10:19  
Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200512D1\_6, Date: 12-May-2020, Time: 13:30:54, ID: 2000951-02RE1 PDI-159SC-A-00-01-200423 16.8, Description: PDI-159SC-A-00-01-200423

2,3,7,8-TCDF



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



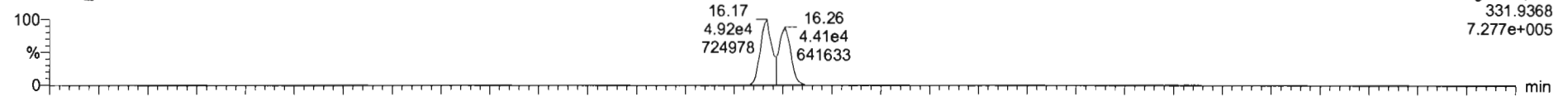
Dataset: U:\VG7.PRO\Results\200512D1\200512D1\_6.qld

Last Altered: Tuesday, May 12, 2020 14:07:50 Pacific Daylight Time  
Printed: Tuesday, May 12, 2020 14:14:45 Pacific Daylight Time

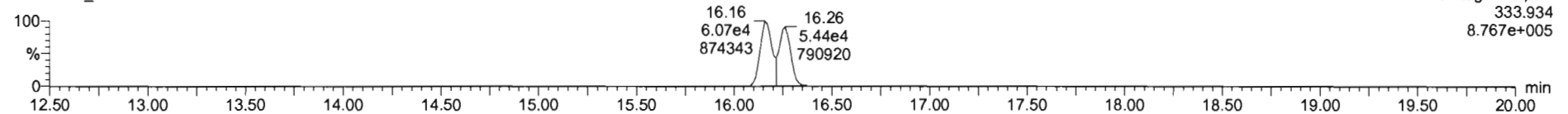
Name: 200512D1\_6, Date: 12-May-2020, Time: 13:30:54, ID: 2000951-02RE1 PDI-159SC-A-00-01-200423 16.8, Description: PDI-159SC-A-00-01-200423

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

200512D1\_6

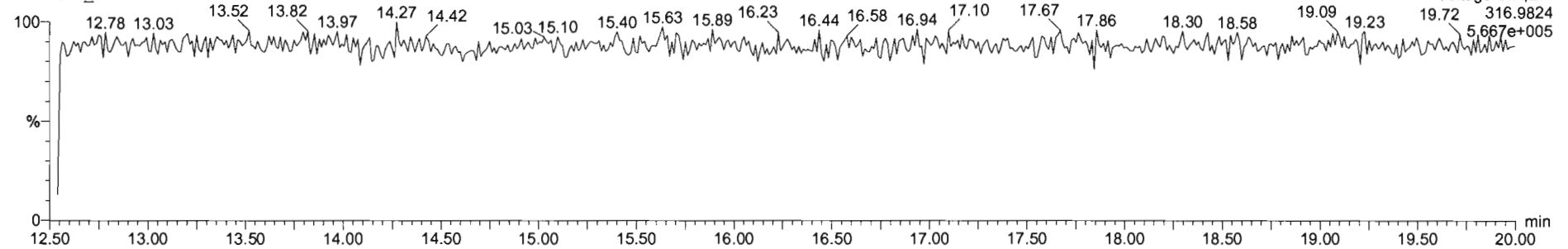


200512D1\_6



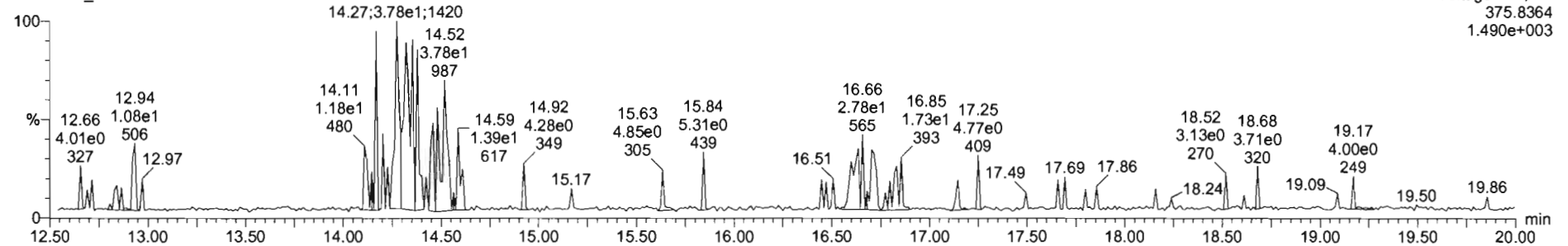
PFK1

200512D1\_6



DPE1

200512D1\_6



Dataset: U:\VG7.PRO\Results\200520D1\200520D1\_4.qld

Last Altered: Wednesday, May 20, 2020 14:47:21 Pacific Daylight Time  
Printed: Wednesday, May 20, 2020 15:08:01 Pacific Daylight Time

DB 5/20/20

2705/21/2020

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: 200520D1\_4, Date: 20-May-2020, Time: 14:08:18, ID: 2000951-03RE2 PDI-159SC-A-01-02-200423 12.5, Description: PDI-159SC-A-01-02-200423

#	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	9.96e2	0.78	NO	0.982	10.022	17.619	17.61	1.000	1.001	15.500		2.19	15.5
2	2 13C-2,3,7,8-TCDF	1.31e4	0.76	NO	1.08	10.022	17.666	17.60	1.133	1.135	170.62	85.5	5.33	
3	3 13C-1,2,3,4-TCDF	1.41e4	0.78	NO	1.00	10.022	15.660	15.51	1.000	1.000	199.57	100	5.77	

Dataset: U:\VG7.PRO\Results\200520D1\200520D1\_4.qld

Last Altered: Wednesday, May 20, 2020 14:47:21 Pacific Daylight Time

Printed: Wednesday, May 20, 2020 15:08:21 Pacific Daylight Time

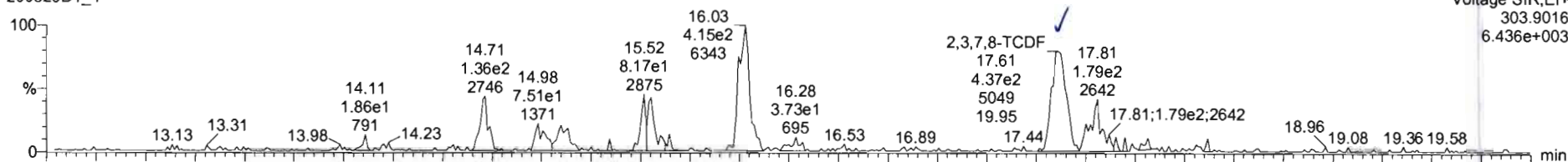
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19

Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

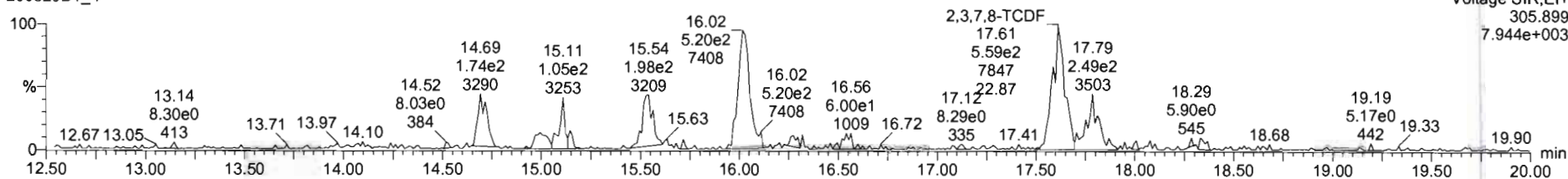
Name: 200520D1\_4, Date: 20-May-2020, Time: 14:08:18, ID: 2000951-03RE2 PDI-159SC-A-01-02-200423 12.5, Description: PDI-159SC-A-01-02-200423

### 2,3,7,8-TCDF

200520D1\_4

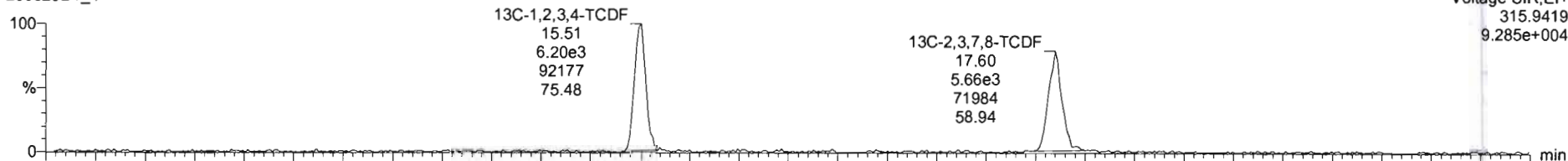


200520D1\_4

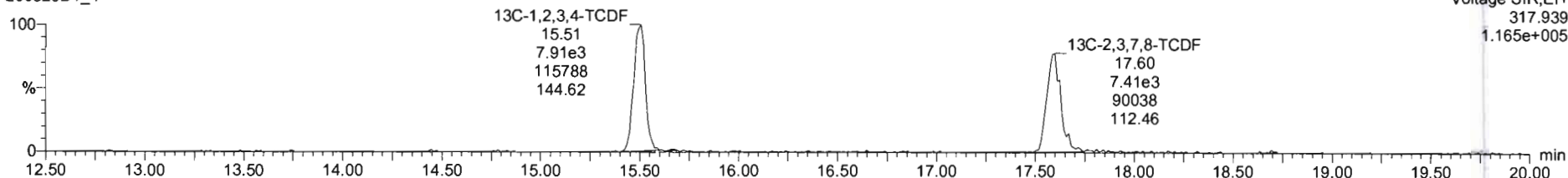


### 13C-2,3,7,8-TCDF

200520D1\_4



200520D1\_4





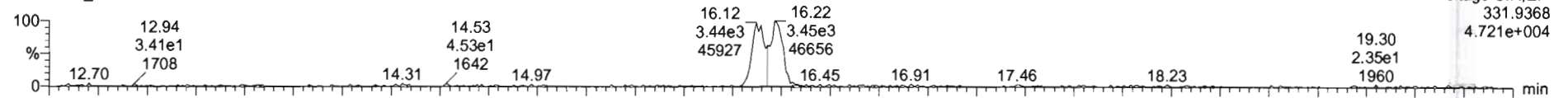
Dataset: U:\VG7.PRO\Results\200520D1\200520D1\_4.qld

Last Altered: Wednesday, May 20, 2020 14:47:21 Pacific Daylight Time  
Printed: Wednesday, May 20, 2020 15:08:21 Pacific Daylight Time

Name: 200520D1\_4, Date: 20-May-2020, Time: 14:08:18, ID: 2000951-03RE2 PDI-159SC-A-01-02-200423 12.5, Description: PDI-159SC-A-01-02-200423

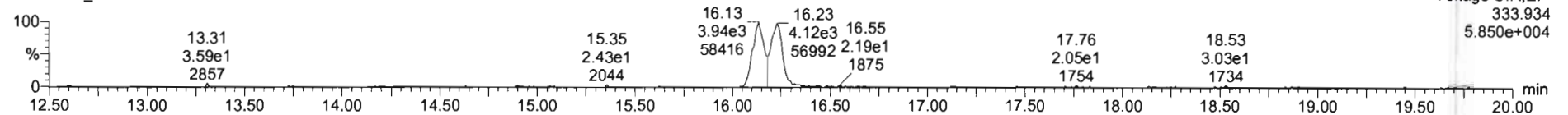
13C-1,2,3,4-TCDD

200520D1\_4



Voltage SIR, EI+  
331.9368  
4.721e+004

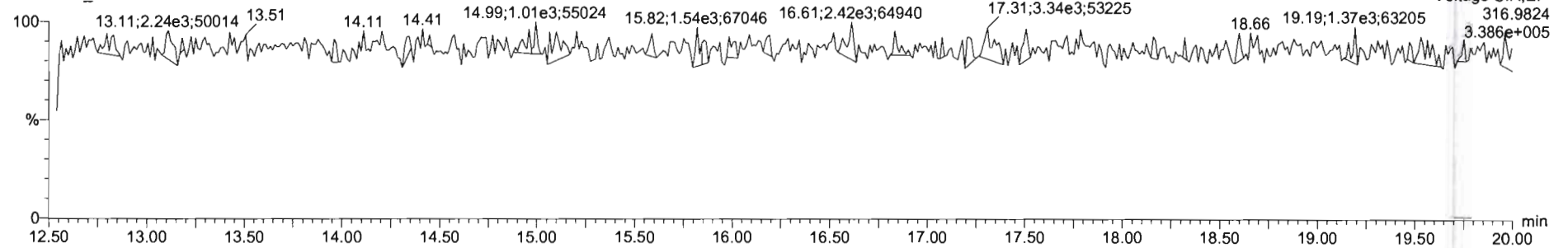
200520D1\_4



Voltage SIR, EI+  
333.934  
5.850e+004

PFK1

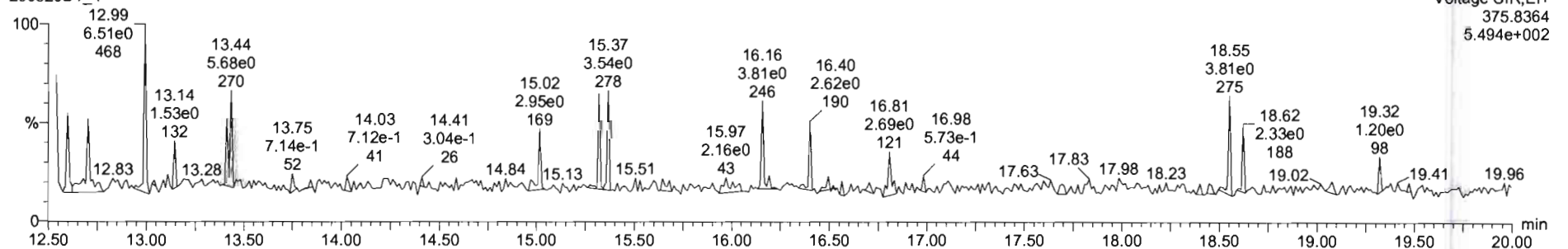
200520D1\_4



Voltage SIR, EI+  
316.9824  
3.386e+005

DPE1

200520D1\_4



Voltage SIR, EI+  
375.8364  
5.494e+002

**CONTINUING CALIBRATION**

**HRMS CALIBRATION STANDARDS REVIEW CHECKLIST**

**Beg. Calibration ID:** ST20050621-1

**Reviewed By:** CT 03/07/2020  
*Initials & Date*

**End Calibration ID:** ST20050622-1

	<u>Beg.</u>	<u>End</u>		<u>Beg.</u>	<u>End</u>
<b>Ion abundance within QC limits?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<b>Mass resolution <math>\geq</math></b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Concentrations within criteria?</b>	<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		
<b>TCDD/TCDF Valleys &lt;25%</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1614   1699   429   1613/1668/8280		
<b>First and last eluters present?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<b>Intergrated peaks display correctly?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Retention Times within criteria?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<b>GC Break &lt;20%</b>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Verification Std. named correctly?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<b>(ST-Year-Month-Day-VG ID)</b>			<b>8280 CS1 End Standard:</b>		
<b>Forms signed and dated?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<b>- Ratios within limits, S/N &lt;2.5:1, CS1 within 12 hours</b>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Correct ICAL referenced?</b>	<u>GEB</u>	<u>GEB</u>			
<b>Run Log:</b>					
<b>- Correct instrument listed?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
<b>- Samples within 12 hour clock?</b>	<u>(Y)</u>	<u>N</u>			
<b>- Bottle position verified?</b>	<u>GEB</u>				

**Comments:**

Dataset: U:\VG12.PRO\Results\200506R1\200506R1-1.qld

Last Altered: Wednesday, May 06, 2020 8:46:03 AM Pacific Daylight Time  
Printed: Wednesday, May 06, 2020 8:49:30 AM Pacific Daylight Time

*GRB 05/06/2020*

*CT 05/07/2020*

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02  
Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200506R1\_1, Date: 06-May-2020, Time: 07:56:17, ID: ST200506R1\_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	8.53e4	8.93e5	0.75	NO	0.947	25.96	25.96	NO	1.001	1.001	10.084	101	NO
2	2 1,2,3,7,8-PeCDD	2.65e5	6.05e5	0.61	NO	0.942	31.07	31.06	NO	1.001	1.000	46.520	93.0	NO
3	3 1,2,3,4,7,8-HxCDD	1.88e5	3.72e5	1.24	NO	1.06	34.43	34.44	NO	1.000	1.001	47.496	95.0	NO
4	4 1,2,3,6,7,8-HxCDD	2.43e5	5.43e5	1.24	NO	0.915	34.53	34.54	NO	1.000	1.000	48.818	97.6	NO
5	5 1,2,3,7,8,9-HxCDD	1.96e5	4.52e5	1.24	NO	0.915	34.81	34.81	NO	1.000	1.000	47.302	94.6	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.42e5	3.26e5	1.04	NO	0.898	38.31	38.31	NO	1.000	1.000	48.611	97.2	NO
7	7 OCDD	2.41e5	5.25e5	0.89	NO	0.933	41.30	41.31	NO	1.000	1.000	98.280	98.3	NO
8	8 2,3,7,8-TCDF	9.15e4	1.21e6	0.76	NO	0.787	25.01	25.00	NO	1.001	1.001	9.6344	96.3	NO
9	9 1,2,3,7,8-PeCDF	4.16e5	9.22e5	1.62	NO	0.910	29.76	29.75	NO	1.001	1.000	49.530	99.1	NO
10	10 2,3,4,7,8-PeCDF	4.00e5	8.72e5	1.56	NO	0.966	30.76	30.74	NO	1.001	1.000	47.465	94.9	NO
11	11 1,2,3,4,7,8-HxCDF	2.48e5	5.42e5	1.21	NO	0.878	33.57	33.58	NO	1.000	1.000	52.082	104	NO
12	12 1,2,3,6,7,8-HxCDF	3.08e5	6.64e5	1.22	NO	0.874	33.69	33.70	NO	1.000	1.000	53.070	106	NO
13	13 2,3,4,6,7,8-HxCDF	2.72e5	5.68e5	1.19	NO	0.922	34.29	34.27	NO	1.001	1.000	51.966	104	NO
14	14 1,2,3,7,8,9-HxCDF	1.87e5	4.07e5	1.23	NO	0.864	35.15	35.15	NO	1.000	1.000	53.029	106	NO
15	15 1,2,3,4,6,7,8-HpCDF	1.95e5	4.28e5	1.00	NO	0.871	36.92	36.89	NO	1.001	1.000	52.340	105	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.23e5	2.29e5	0.98	NO	1.01	38.88	38.90	NO	1.000	1.000	53.202	106	NO
17	17 OCDF	2.37e5	5.76e5	0.88	NO	0.802	41.47	41.48	NO	1.000	1.000	102.74	103	NO
18	18 13C-2,3,7,8-TCDD	8.93e5	7.50e5	0.79	NO	1.16	25.92	25.93	NO	1.026	1.027	102.67	103	NO
19	19 13C-1,2,3,7,8-PeCDD	6.05e5	7.50e5	0.63	NO	0.847	31.00	31.05	NO	1.227	1.229	95.247	95.2	NO
20	20 13C-1,2,3,4,7,8-HxCDD	3.72e5	5.37e5	1.29	NO	0.750	34.43	34.42	NO	1.014	1.014	92.391	92.4	NO
21	21 13C-1,2,3,6,7,8-HxCDD	5.43e5	5.37e5	1.26	NO	0.963	34.54	34.53	NO	1.017	1.017	105.00	105	NO
22	22 13C-1,2,3,7,8,9-HxCDD	4.52e5	5.37e5	1.25	NO	0.838	34.81	34.80	NO	1.025	1.025	100.42	100	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.26e5	5.37e5	1.05	NO	0.641	38.29	38.30	NO	1.128	1.128	94.465	94.5	NO
24	24 13C-OCDD	5.25e5	5.37e5	0.88	NO	0.586	41.28	41.30	NO	1.216	1.217	166.67	83.3	NO
25	25 13C-2,3,7,8-TCDF	1.21e6	1.15e6	0.75	NO	1.03	24.99	24.99	NO	0.989	0.989	101.81	102	NO
26	26 13C-1,2,3,7,8-PeCDF	9.22e5	1.15e6	1.59	NO	0.845	29.69	29.74	NO	1.176	1.177	95.218	95.2	NO
27	27 13C-2,3,4,7,8-PeCDF	8.72e5	1.15e6	1.60	NO	0.814	30.68	30.73	NO	1.215	1.217	93.527	93.5	NO
28	28 13C-1,2,3,4,7,8-HxCDF	5.42e5	5.37e5	0.50	NO	1.00	33.57	33.57	NO	0.989	0.989	100.37	100	NO
29	29 13C-1,2,3,6,7,8-HxCDF	6.64e5	5.37e5	0.50	NO	1.14	33.69	33.69	NO	0.992	0.992	108.66	109	NO
30	30 13C-2,3,4,6,7,8-HxCDF	5.68e5	5.37e5	0.49	NO	1.02	34.26	34.26	NO	1.009	1.009	103.34	103	NO
31	31 13C-1,2,3,7,8,9-HxCDF	4.07e5	5.37e5	0.51	NO	0.845	35.15	35.15	NO	1.035	1.035	89.744	89.7	NO

Dataset: U:\VG12.PRO\Results\200506R1\200506R1-1.qld

Last Altered: Wednesday, May 06, 2020 8:46:03 AM Pacific Daylight Time

Printed: Wednesday, May 06, 2020 8:49:30 AM Pacific Daylight Time

Name: 200506R1\_1, Date: 06-May-2020, Time: 07:56:17, ID: ST200506R1\_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	4.28e5	5.37e5	0.42	NO	0.771	36.88	36.88	NO	1.086	1.086	103.35	103	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.29e5	5.37e5	0.43	NO	0.482	38.88	38.88	NO	1.145	1.145	88.413	88.4	NO
34	34 13C-OCDF	5.76e5	5.37e5	0.89	NO	0.669	41.45	41.47	NO	1.221	1.222	160.42	80.2	NO
35	35 37Cl-2,3,7,8-TCDD	8.14e4	7.50e5			1.10	25.95	25.96	NO	1.028	1.028	9.8805	98.8	NO
36	36 13C-1,2,3,4-TCDD	7.50e5	7.50e5	0.80	NO	1.00	25.35	25.26	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.15e6	1.15e6	0.79	NO	1.00	23.56	23.46	NO	1.000	1.000	100.00	100	NO
33	38 13C-1,2,3,4,6,9-HxCDF	5.37e5	5.37e5	0.50	NO	1.00	34.00	33.95	NO	1.000	1.000	100.00	100	YES <sup>ot</sup>

Dataset: Untitled

Last Altered: Wednesday, May 06, 2020 2:26:48 PM Pacific Daylight Time  
Printed: Wednesday, May 06, 2020 2:26:56 PM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02  
Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

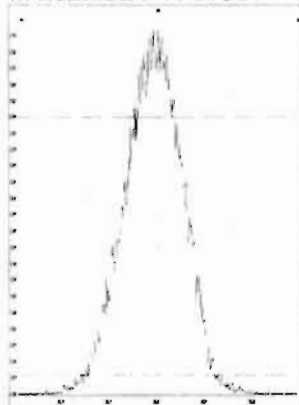
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	200506R1_1	ST200506R1_1 1613 CS3 19L2305	06-May-20	07:56:17
2	200506R1_2	B0E0015-BS1 OPR 10	06-May-20	08:43:47
3	200506R1_3	SOLVENT BLANK	06-May-20	09:30:53
4	200506R1_4	B0E0015-BLK1 Method Blank 10	06-May-20	10:17:03
5	200506R1_5	2000829-01 Finished Ice - Melted 0.99059	06-May-20	11:04:24
6	200506R1_6	2000927-13RE2 PDI-152SC-A-10-11-200421 ...	06-May-20	11:51:37
7	200506R1_7	SOLVENT BLANK	06-May-20	12:38:23
8	200506R2_1	ST200506R2_1 1613 CS3 19L2305	06-May-20	13:35:58

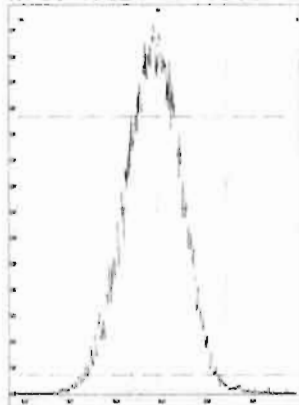
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, May 06, 2020 07:49:52 Pacific Daylight Time

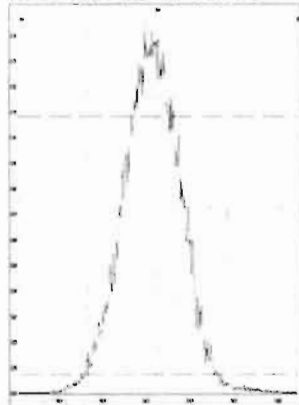
M 292.9824 R 11061



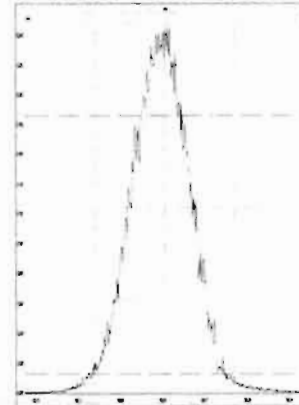
M 304.9824 R 11010



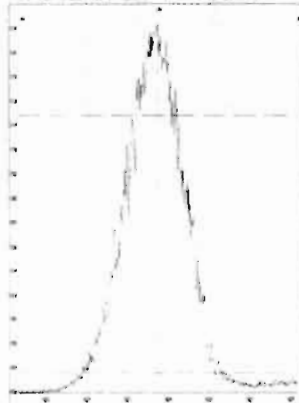
M 318.9792 R 10776



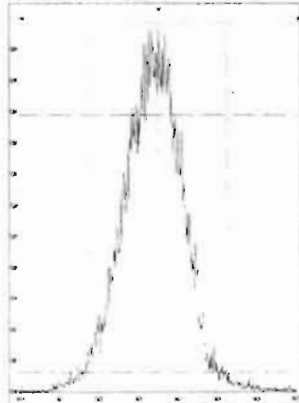
M 330.9792 R 10502



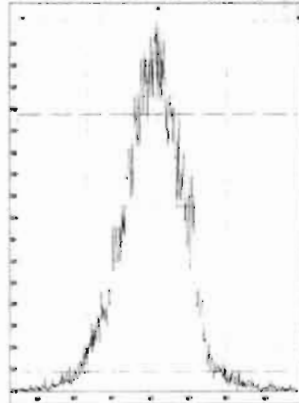
M 342.9792 R 10823



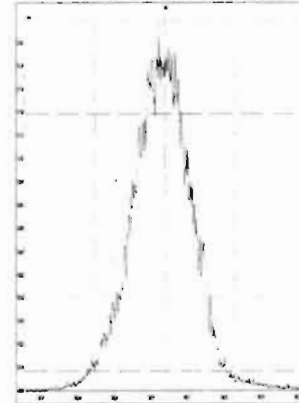
M 354.9792 R 10376



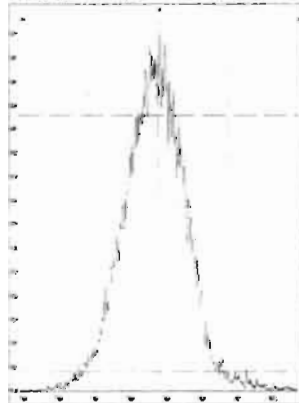
M 366.9792 R 10819



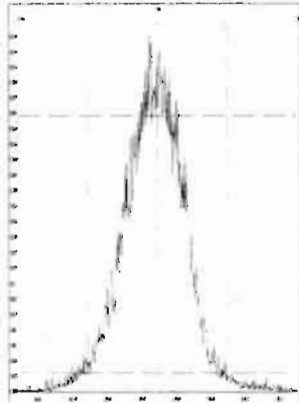
M 380.9760 R 10203



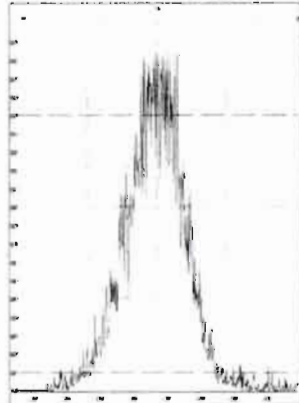
M 392.9760 R 10286



M 404.9760 R 10330



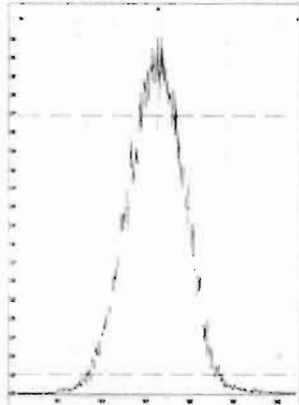
M 416.9760 R 11060



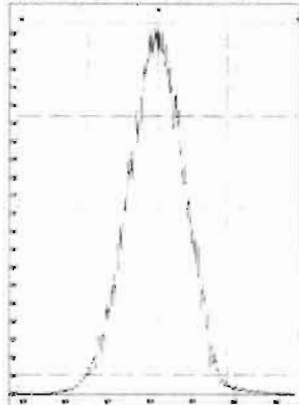
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Wednesday, May 06, 2020 07:50:26 Pacific Daylight Time

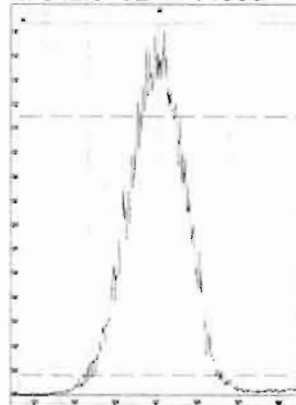
M 318.9792 R 11313



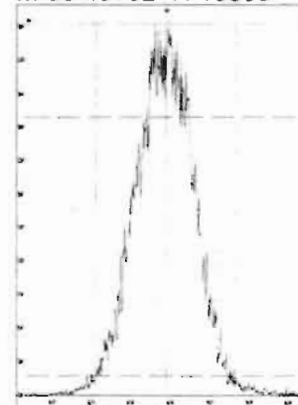
M 330.9792 R 10464



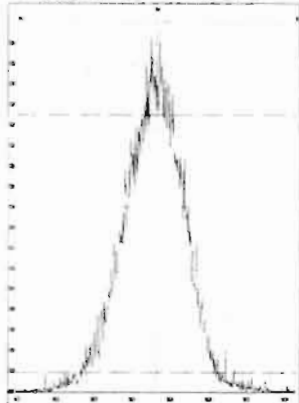
M 342.9792 R 11365



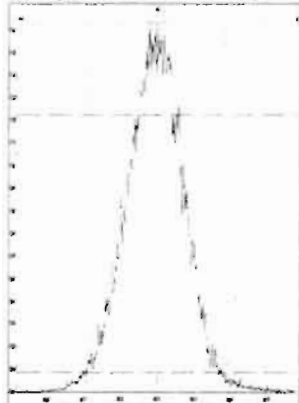
M 354.9792 R 10683



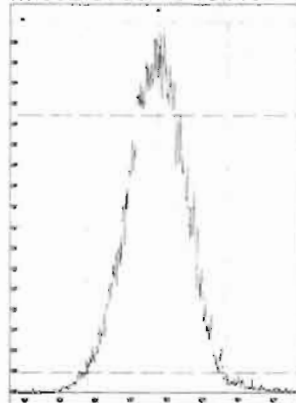
M 366.9792 R 10375



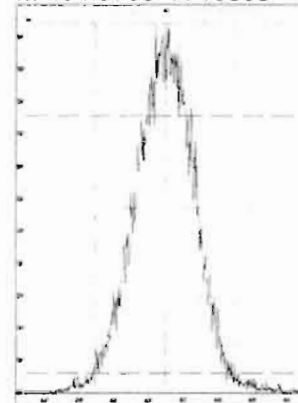
M 380.9760 R 10460



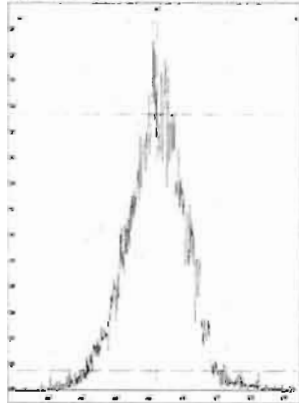
M 392.9760 R 10419



M 404.9760 R 10505



M 416.9760 R 11159

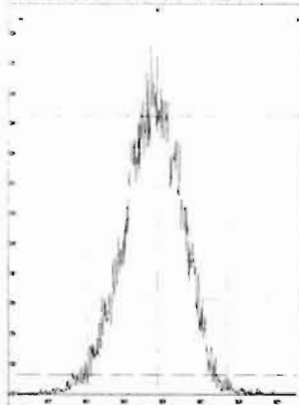




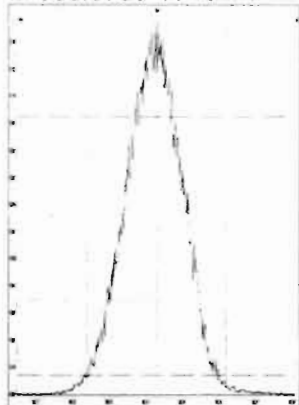
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Wednesday, May 06, 2020 07:51:02 Pacific Daylight Time

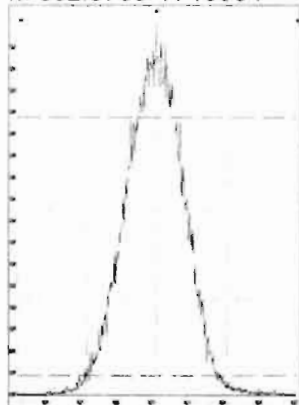
M 366.9792 R 11263



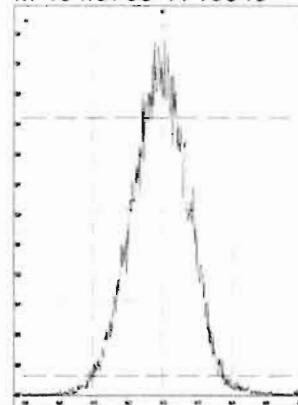
M 380.9760 R 10417



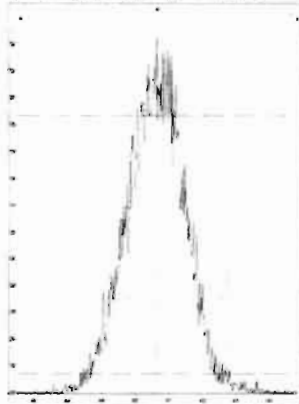
M 392.9760 R 10964



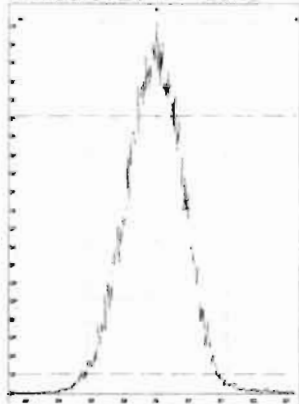
M 404.9760 R 10549



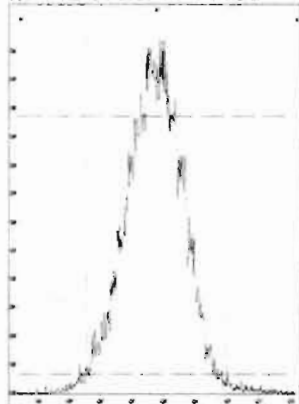
M 416.9760 R 11415



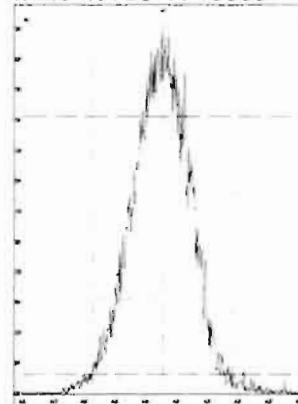
M 430.9728 R 10640



M 442.9728 R 11157



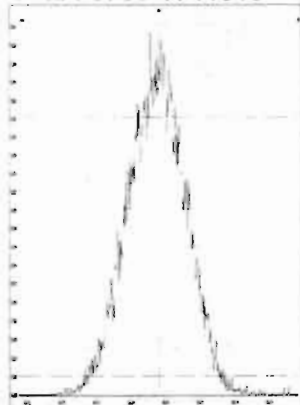
M 454.9728 R 10868



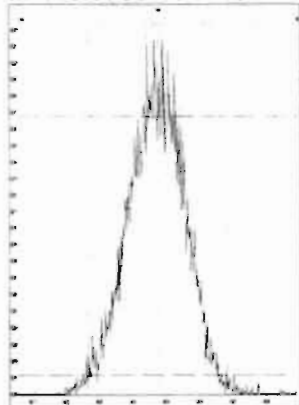
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Wednesday, May 06, 2020 07:51:28 Pacific Daylight Time

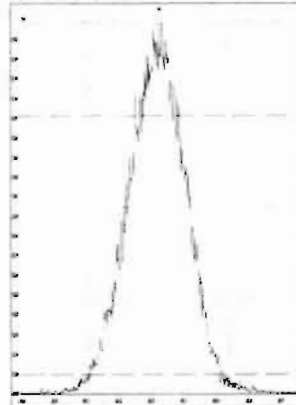
M 404.9760 R 11015



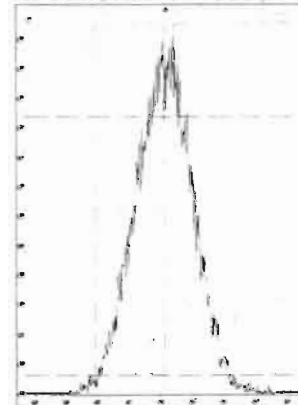
M 416.9760 R 11464



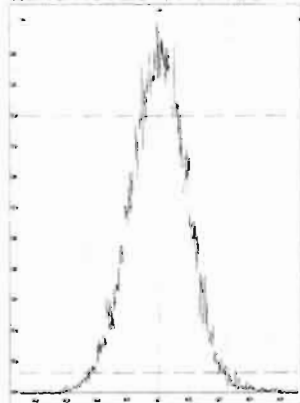
M 430.9728 R 10775



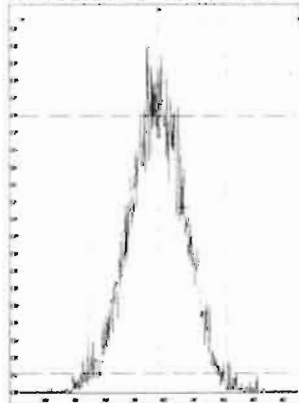
M 442.9728 R 10550



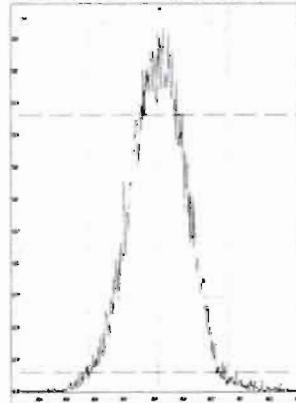
M 454.9728 R 11160



M 466.9728 R 10502



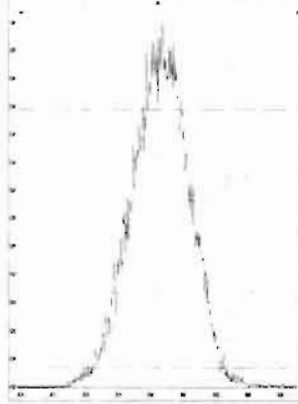
M 480.9696 R 11111



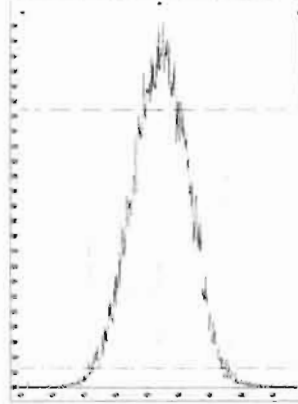
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Wednesday, May 06, 2020 07:52:17 Pacific Daylight Time

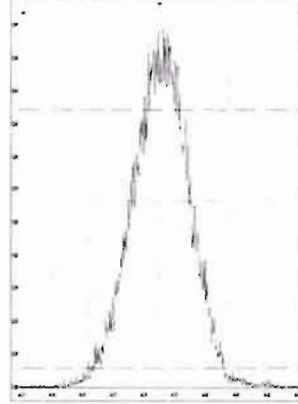
M 430.9728 R 11063



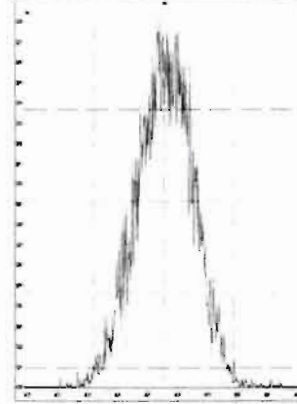
M 442.9728 R 10916



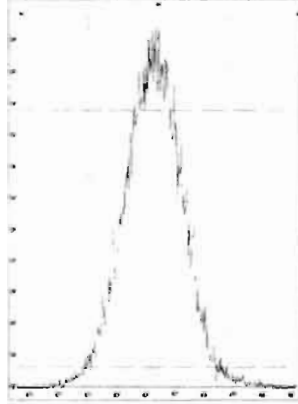
M 454.9728 R 10731



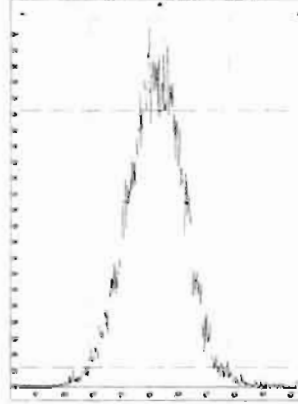
M 466.9728 R 11062



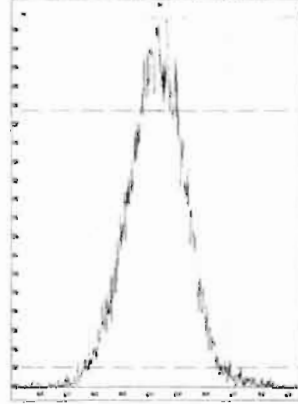
M 480.9696 R 10637



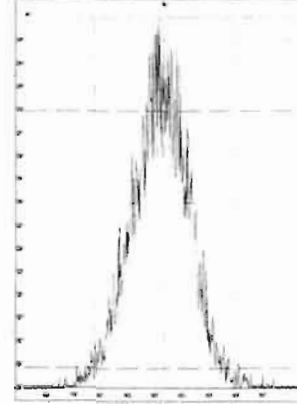
M 492.9696 R 10823



M 504.9696 R 11061



M 516.9697 R 11212



Vista Analytical Laboratory VG-11

Dataset: U:\VG12.PRO\Results\200506R1\200506R1-CPSM.qld

Last Altered: Wednesday, May 06, 2020 8:47:38 AM Pacific Daylight Time

Printed: Wednesday, May 06, 2020 8:52:08 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 08 Apr 2020 10:53:44

Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200506R1\_1, Date: 06-May-2020, Time: 07:56:17, ID: ST200506R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1,3,6,8-TCDD (First)	21.77
2	1,2,8,9-TCDD (Last)	26.96
3	1,2,4,7,9-PeCDD (First)	28.81
4	1,2,3,8,9-PeCDD (Last)	31.46
5	1,2,4,6,7,9-HxCDD (First)	32.97
6	1,2,3,7,8,9-HxCDD (Last)	34.81
7	1,2,3,4,6,7,9-HpCDD (First)	37.28
8	1,2,3,4,6,7,8-HpCDD (Last)	38.31
9	1,3,6,8-TCDF (First)	19.73
10	1,2,8,9-TCDF (Last)	27.10
11	1,3,4,6,8-PeCDF (First)	27.08
12	1,2,3,8,9-PeCDF (Last)	31.69
13	1,2,3,4,6,8-HxCDF (First)	32.41
14	1,2,3,7,8,9-HxCDF (Last)	35.15
15	1,2,3,4,6,7,8-HpCDF (First)	36.89
16	1,2,3,4,7,8,9-HpCDF (Last)	38.90

Dataset: U:\VG12.PRO\Results\200506R1\200506R1-CPSM.qld

Last Altered: Wednesday, May 06, 2020 8:47:38 AM Pacific Daylight Time  
Printed: Wednesday, May 06, 2020 8:52:08 AM Pacific Daylight Time

GRB 05/06/2020

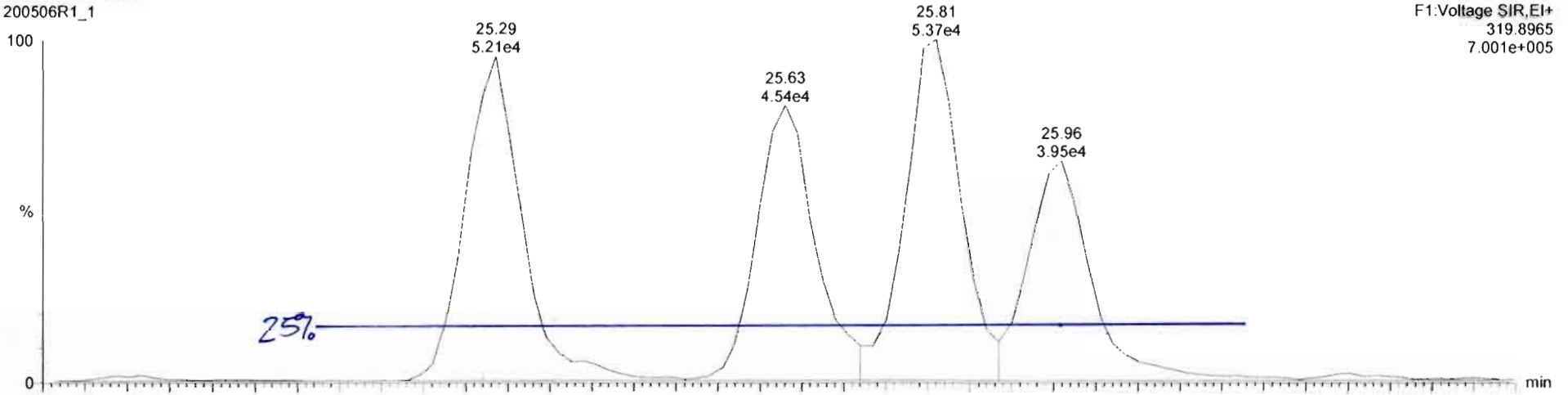
Method: U:\VG12.PRO\MethDB\CPSM.mdb 08 Apr 2020 10:53:44  
Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200506R1\_1, Date: 06-May-2020, Time: 07:56:17, ID: ST200506R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

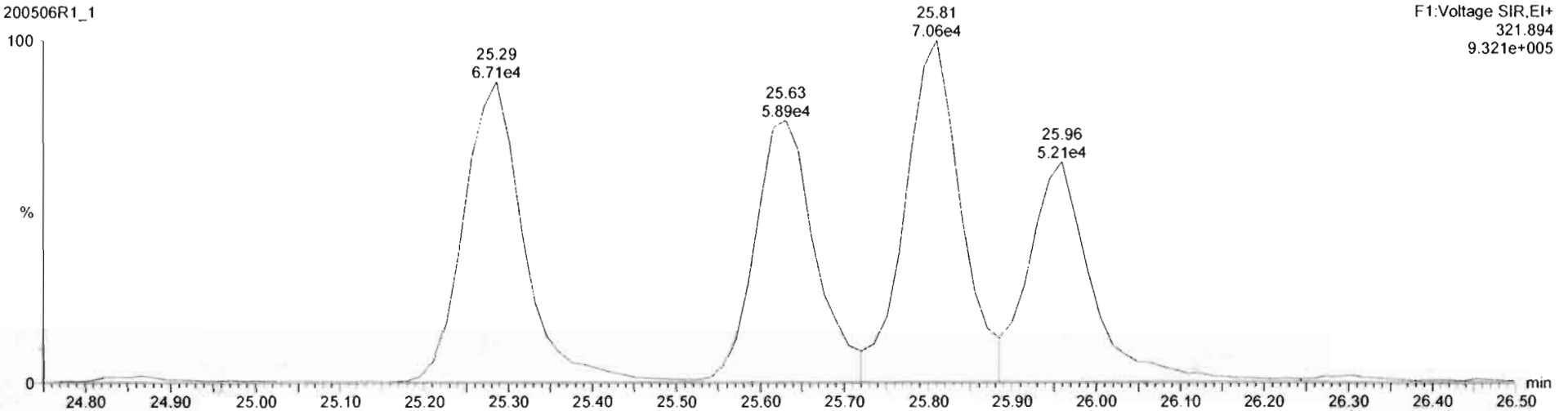
200506R1\_1

F1:Voltage SIR,EI+  
319.8965  
7.001e+005



200506R1\_1

F1:Voltage SIR,EI+  
321.894  
9.321e+005



Dataset: Untitled

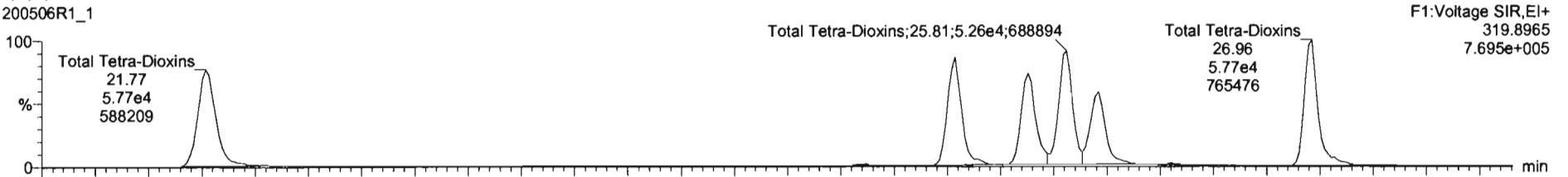
Last Altered: Wednesday, May 06, 2020 8:48:57 AM Pacific Daylight Time  
Printed: Wednesday, May 06, 2020 8:49:07 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02  
Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

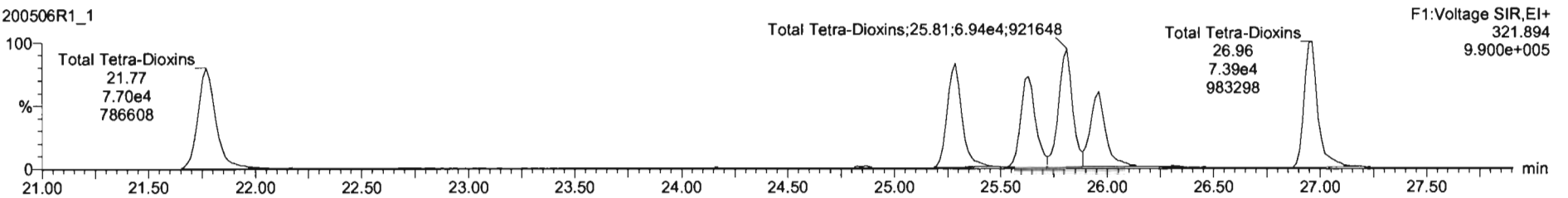
Name: 200506R1\_1, Date: 06-May-2020, Time: 07:56:17, ID: ST200506R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

**2,3,7,8-TCDD**

200506R1\_1

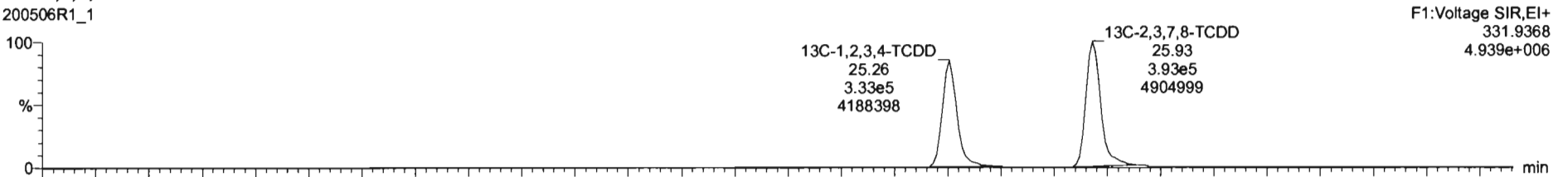


200506R1\_1

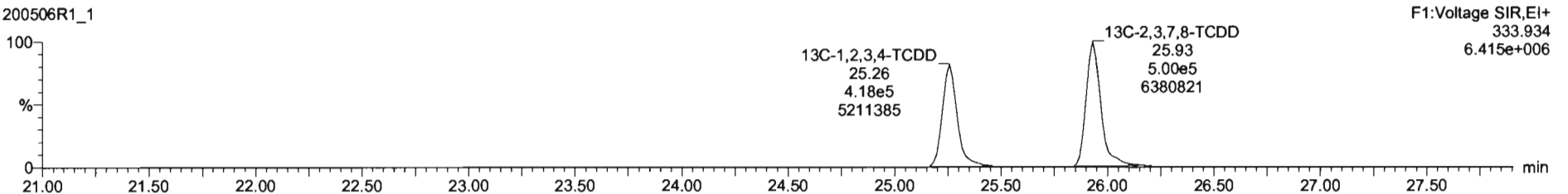


**13C-2,3,7,8-TCDD**

200506R1\_1



200506R1\_1



Dataset: Untitled

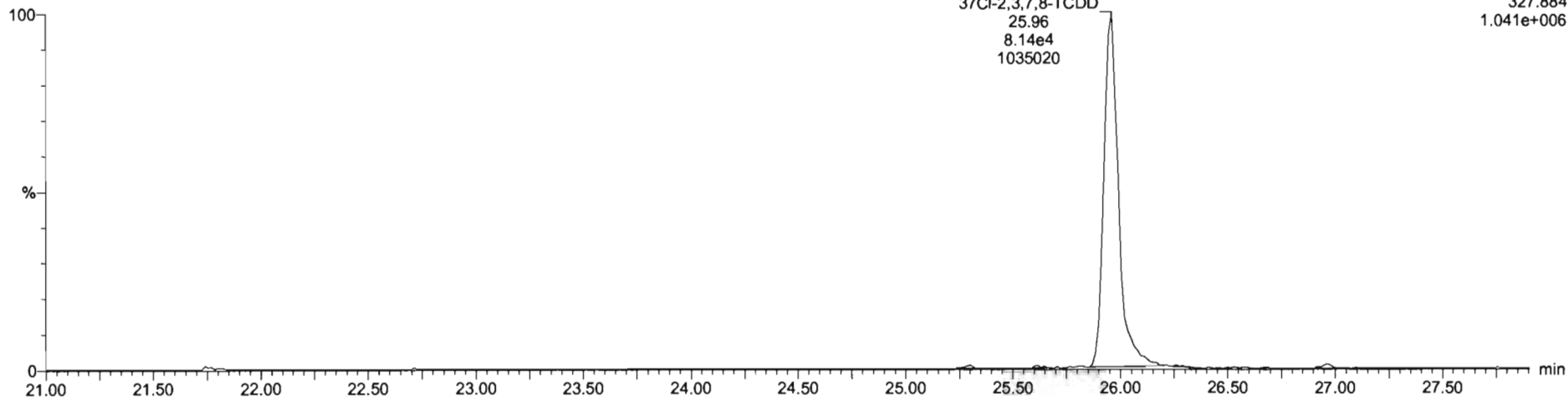
Last Altered: Wednesday, May 06, 2020 8:48:57 AM Pacific Daylight Time

Printed: Wednesday, May 06, 2020 8:49:07 AM Pacific Daylight Time

Name: 200506R1\_1, Date: 06-May-2020, Time: 07:56:17, ID: ST200506R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

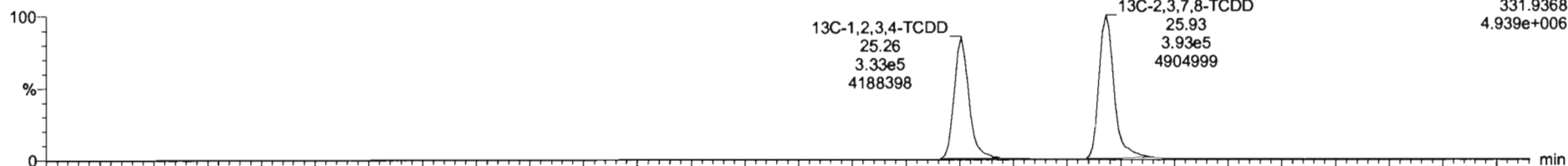
200506R1\_1



F1: Voltage SIR, EI+  
327.884  
1.041e+006

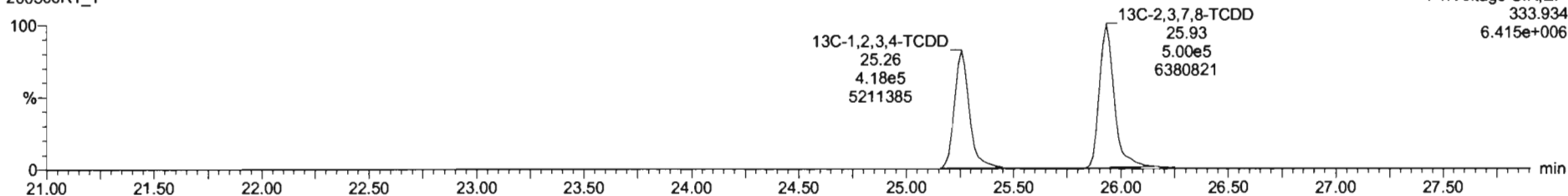
**13C-1,2,3,4-TCDD**

200506R1\_1



F1: Voltage SIR, EI+  
331.9368  
4.939e+006

200506R1\_1



F1: Voltage SIR, EI+  
333.934  
6.415e+006

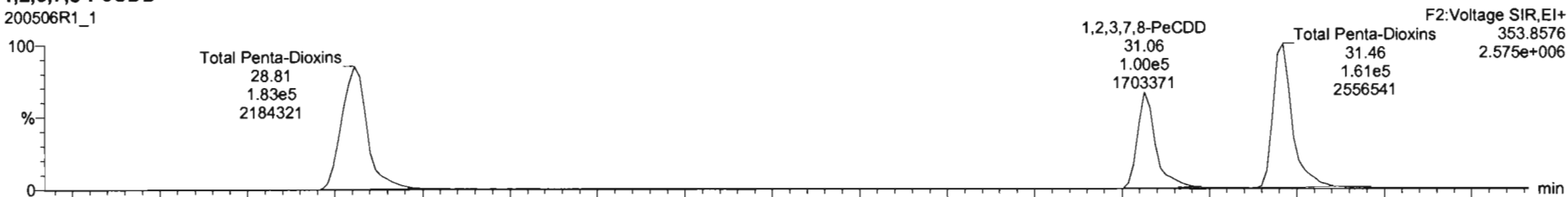
Dataset: Untitled

Last Altered: Wednesday, May 06, 2020 8:48:57 AM Pacific Daylight Time  
Printed: Wednesday, May 06, 2020 8:49:07 AM Pacific Daylight Time

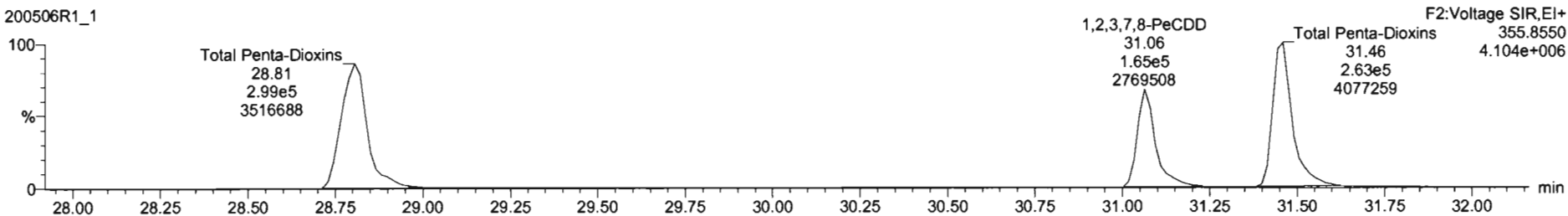
Name: 200506R1\_1, Date: 06-May-2020, Time: 07:56:17, ID: ST200506R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

**1,2,3,7,8-PeCDD**

200506R1\_1

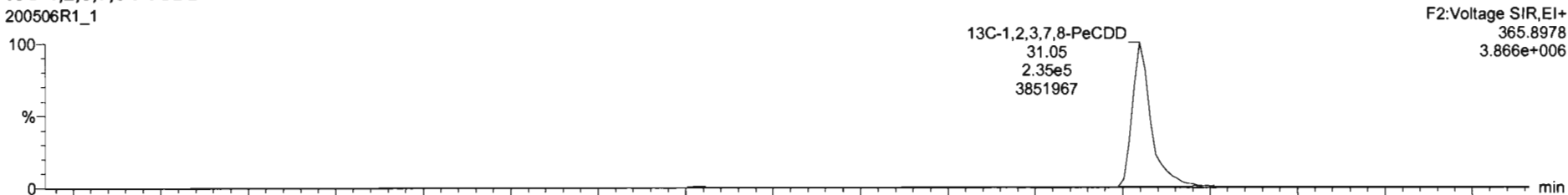


200506R1\_1

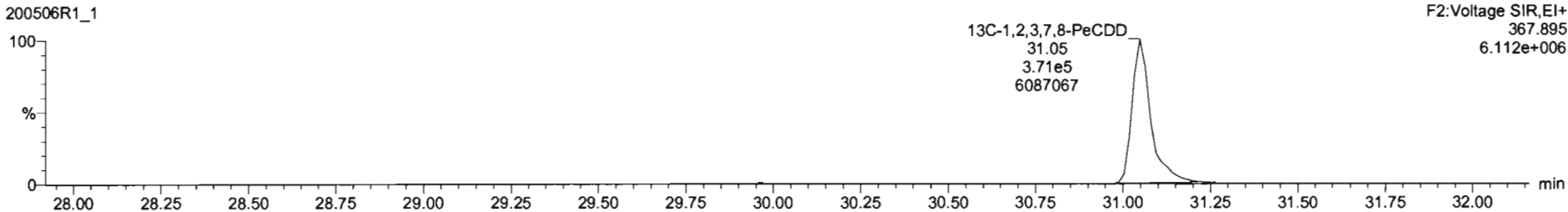


**13C-1,2,3,7,8-PeCDD**

200506R1\_1



200506R1\_1





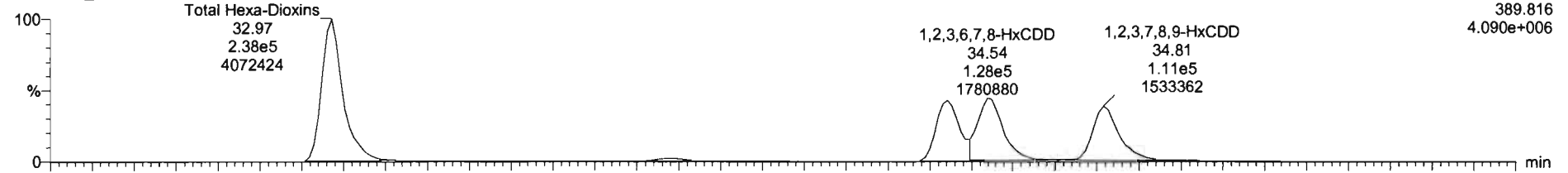
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Printed: Wednesday, May 06, 2020 8:49:07 AM Pacific Daylight Time

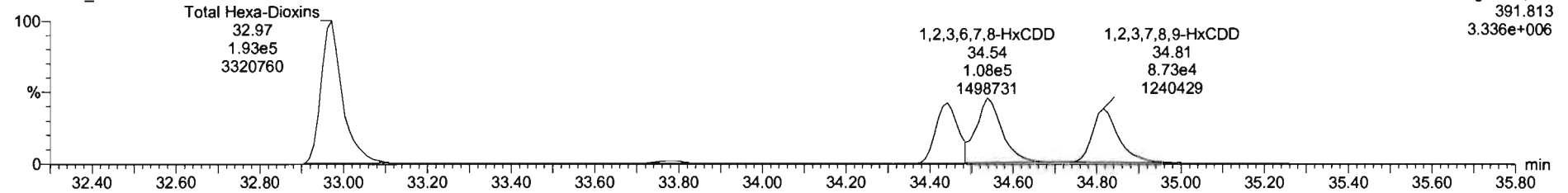
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1,2,3,4,7,8-HxCDD

200506R1\_1

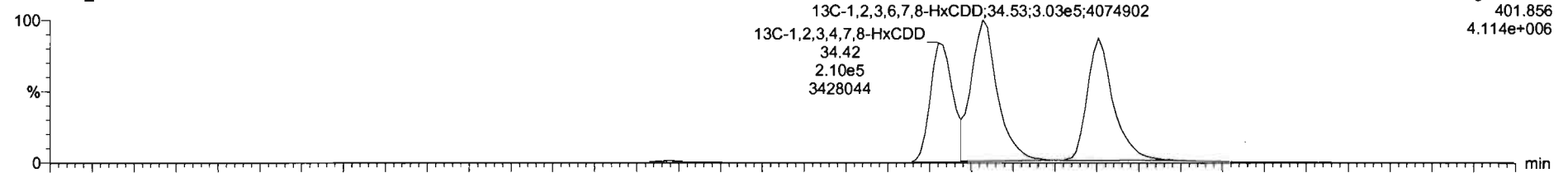


200506R1\_1

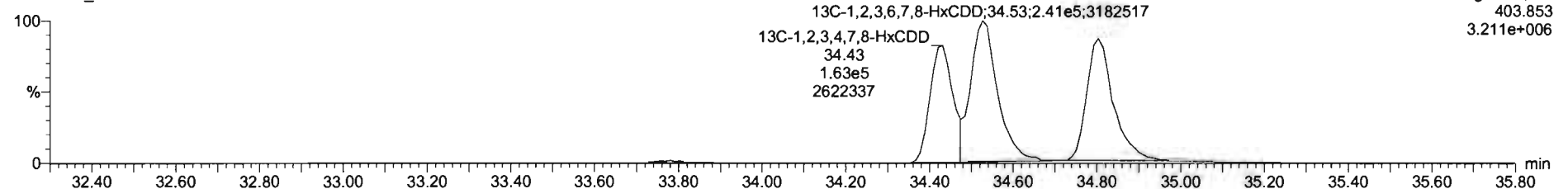


13C-1,2,3,4,7,8-HxCDD

200506R1\_1

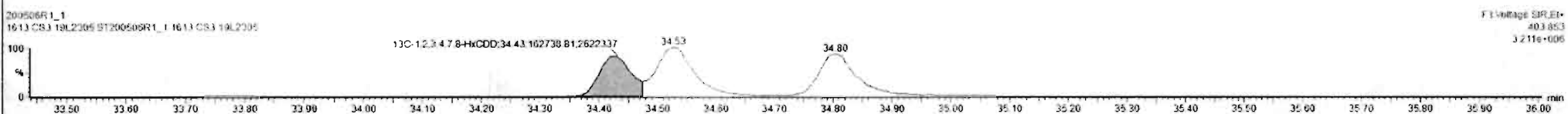
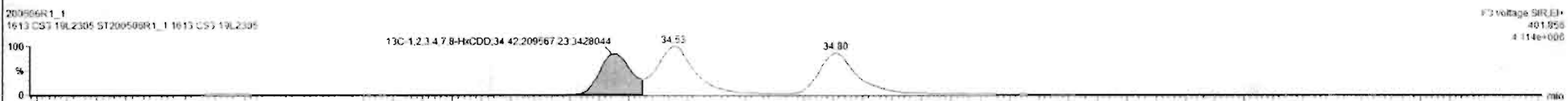
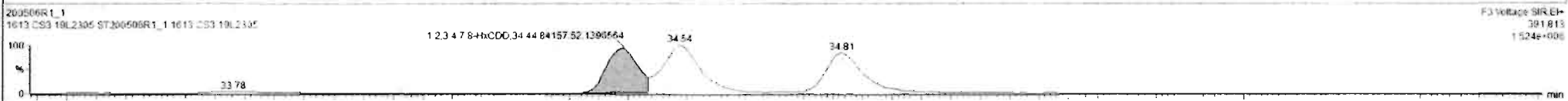
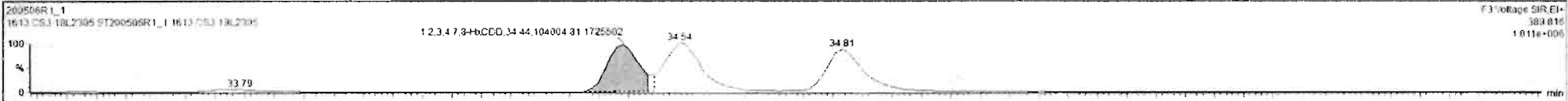


200506R1\_1

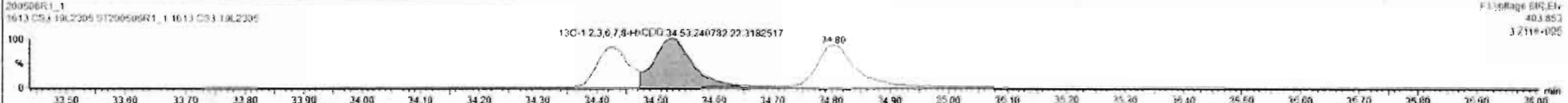
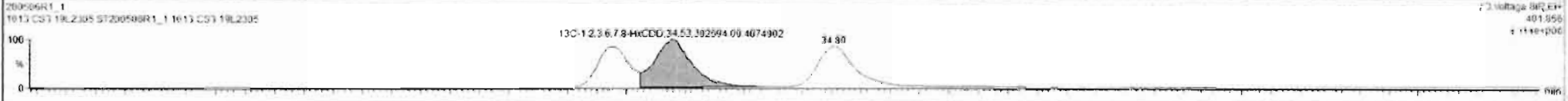
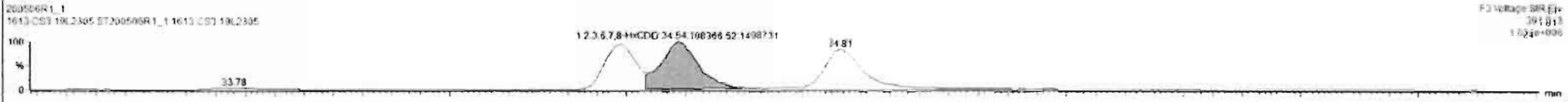


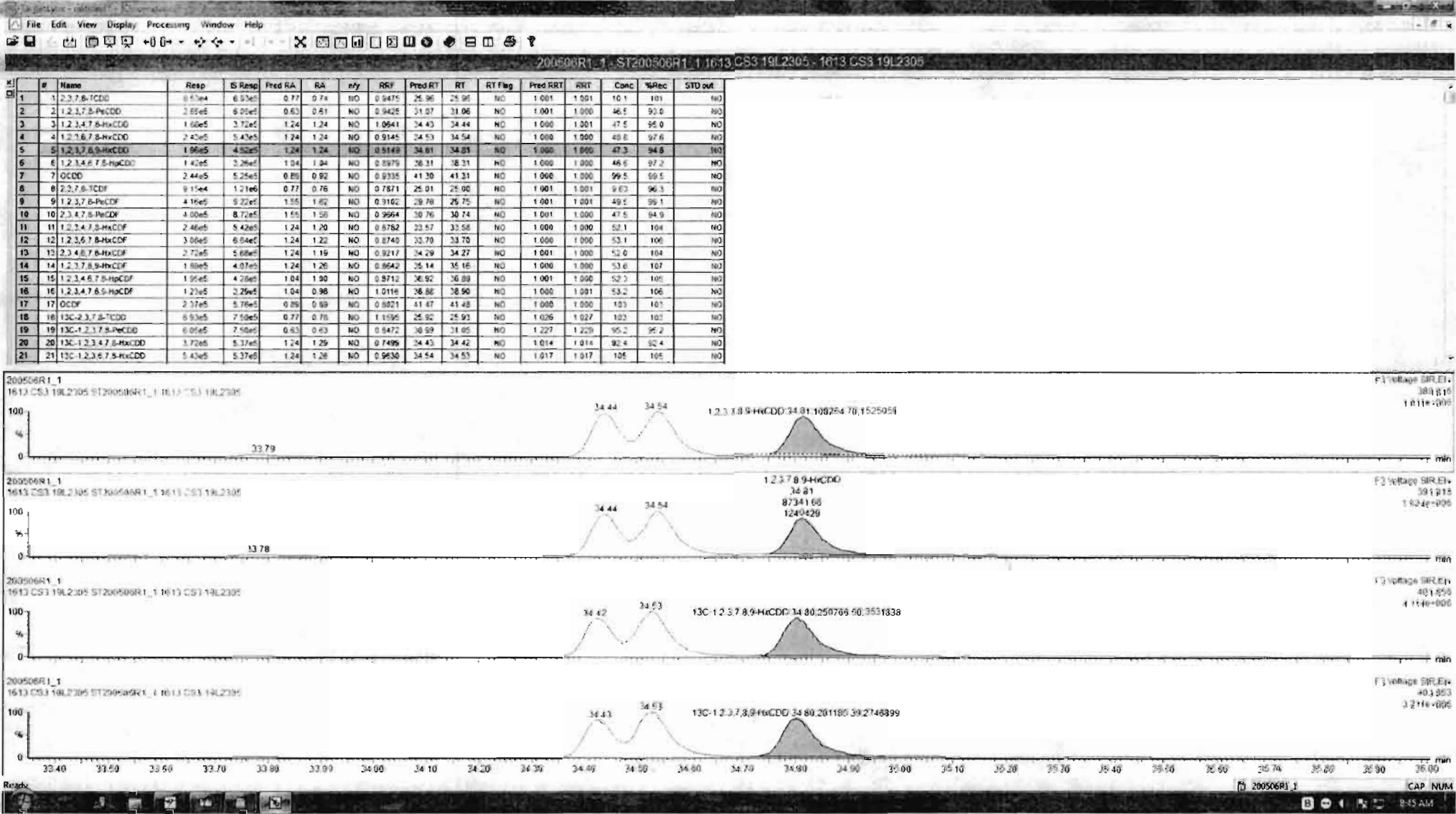
200506R1\_1 - ST200506R1\_1 1613 CS3 19L2305 - 1613 CS3 19L2305

#	Name	Resp	S Resp	Pred RA	RA	ely	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1 2,3,7,8-TCDD	6.53e4	8.53e5	0.77	0.74	NO	0.9475	25.96	25.96	NO	1.001	1.001	10.1	101	NO
2	2 1,2,3,7,8-PeCDD	2.85e5	6.05e5	0.83	0.81	NO	0.9425	31.07	31.06	NO	1.001	1.000	46.5	92.0	NO
3	3 1,2,3,4,7,8-HxCDD	1.88e5	3.72e5	1.24	1.24	NO	1.0041	34.43	34.44	NO	1.000	1.001	47.5	95.0	NO
4	4 1,2,3,6,7,8-HxCDD	2.45e5	5.43e5	1.24	1.24	NO	0.9145	34.53	34.54	NO	1.000	1.000	48.0	97.5	NO
5	5 1,2,3,7,8,9-HxCDD	1.56e5	4.52e5	1.24	1.27	NO	0.9145	34.81	34.81	NO	1.000	1.000	47.9	95.8	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.42e5	3.26e5	1.04	1.04	NO	0.8975	38.31	38.31	NO	1.000	1.000	48.6	97.2	NO
7	7 OCDD	2.44e5	5.25e5	0.85	0.82	NO	0.9335	41.30	41.31	NO	1.000	1.000	99.5	99.5	NO
8	8 2,3,7,8-TCDF	9.15e4	1.21e5	0.77	0.76	NO	0.7871	25.03	25.00	NO	1.001	1.001	9.63	96.3	NO
9	9 1,2,3,7,8-PeCDF	4.16e5	9.22e5	1.55	1.52	NO	0.9182	29.78	29.75	NO	1.001	1.001	49.0	96.1	NO
10	10 2,3,4,7,8-PeCDF	4.00e5	8.72e5	1.55	1.58	NO	0.9864	30.76	30.74	NO	1.001	1.000	47.5	94.9	NO
11	11 1,2,3,4,7,8-HxCDF	2.48e5	5.42e5	1.24	1.20	NO	0.8782	33.57	33.58	NO	1.000	1.000	52.1	104	NO
12	12 1,2,3,6,7,8-HxCDF	3.08e5	6.84e5	1.24	1.22	NO	0.8740	33.70	33.70	NO	1.000	1.000	53.1	106	NO
13	13 2,3,4,6,7,8-HxCDF	2.72e5	5.88e5	1.24	1.19	NO	0.9217	34.29	34.27	NO	1.001	1.000	52.0	104	NO
14	14 1,2,3,7,8,9-HxCDF	1.88e5	4.07e5	1.24	1.20	NO	0.8642	35.14	35.16	NO	1.000	1.000	53.0	107	NO
15	15 1,2,3,4,6,7,8-HpCDF	1.95e5	4.28e5	1.04	1.00	NO	0.8712	36.92	36.89	NO	1.001	1.000	52.0	105	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.23e5	2.29e5	1.04	0.96	NO	1.0115	38.88	38.90	NO	1.000	1.001	53.0	106	NO
17	17 OCDF	2.07e5	5.16e5	0.85	0.85	NO	0.8921	41.47	41.48	NO	1.000	1.000	103	103	NO
18	18 13C-2,3,7,8-TCDD	6.93e5	7.50e5	0.77	0.76	NO	1.1556	25.92	25.93	NO	1.026	1.027	103	103	NO
19	19 13C-1,2,3,7,8-PeCDD	6.05e5	7.50e5	0.83	0.83	NO	0.9472	30.99	31.05	NO	1.227	1.229	95.2	95.2	NO
20	20 13C-1,2,3,4,7,8-HxCDD	3.72e5	5.37e5	1.24	1.29	NO	0.7499	34.43	34.42	NO	1.014	1.014	92.4	92.4	NO
21	21 13C-1,2,3,6,7,8-HxCDD	5.43e5	5.37e5	1.24	1.28	NO	0.9630	34.54	34.53	NO	1.017	1.017	105	105	NO



#	Name	Resp	S Resp	Pred RA	RA	nly	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Comp	%Rec	STD out
1	1 2,3,7,8-TCDD	6.63e4	6.93e5	0.77	0.74	NO	0.9475	25.96	25.96	NO	1.001	1.001	10.1	103	NO
2	2 1,2,3,7,8-PeCDD	2.05e6	6.05e6	0.63	0.61	NO	0.9425	31.07	31.06	NO	1.001	1.000	46.6	93.0	NO
3	3 1,2,3,4,7,8-HxCDD	1.08e5	3.72e5	1.24	1.24	NO	1.0641	34.43	34.44	NO	1.000	1.001	47.5	95.0	NO
4	4 1,2,3,6,7,8-HxCDD	2.45e5	5.43e5	1.24	1.24	NO	0.9145	34.53	34.54	NO	1.000	1.000	40.8	97.6	NO
5	5 1,2,3,7,8,9-HxCDD	1.96e5	4.52e5	1.24	1.27	NO	0.9149	34.81	34.81	NO	1.000	1.000	47.9	95.8	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.42e6	3.26e6	1.04	1.04	NO	0.8979	38.31	38.31	NO	1.000	1.000	48.6	97.2	NO
7	7 OCDD	2.44e5	5.25e5	0.89	0.92	NO	0.9335	41.30	41.31	NO	1.000	1.000	99.5	99.5	NO
8	8 2,3,7,8-TCDF	9.15e4	1.21e6	0.77	0.76	NO	0.7871	25.01	25.00	NO	1.001	1.001	9.63	96.3	NO
9	9 1,2,3,7,8-PeCDF	4.16e5	9.22e5	1.55	1.62	NO	0.9102	29.76	29.75	NO	1.001	1.001	49.5	95.1	NO
10	10 2,3,4,7,8-PeCDF	4.00e5	8.72e5	1.55	1.56	NO	0.9664	30.76	30.74	NO	1.001	1.000	47.5	94.9	NO
11	11 1,2,3,4,7,8-HxCDF	2.46e5	5.42e5	1.24	1.20	NO	0.8782	32.57	32.58	NO	1.000	1.000	52.1	104	NO
12	12 1,2,3,6,7,8-HxCDF	3.09e5	6.64e5	1.24	1.22	NO	0.8740	32.70	32.70	NO	1.000	1.000	53.1	106	NO
13	13 2,3,4,6,7,8-HxCDF	2.72e5	5.68e5	1.24	1.19	NO	0.9217	34.29	34.27	NO	1.001	1.000	52.0	104	NO
14	14 1,2,3,7,8,9-HxCDF	1.80e5	4.07e5	1.24	1.26	NO	0.9642	35.14	35.16	NO	1.000	1.000	53.6	107	NO
15	15 1,2,3,4,6,7,8-HpCDF	1.95e5	4.28e5	1.04	1.00	NO	0.8712	36.92	36.89	NO	1.001	1.000	52.3	105	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.23e5	2.29e5	1.04	0.96	NO	1.0116	36.82	36.90	NO	1.000	1.001	53.2	106	NO
17	17 OCDF	2.37e5	5.78e5	0.89	0.89	NO	0.8021	41.47	41.48	NO	1.000	1.000	103	103	NO
18	18 13C-2,3,7,8-TCDD	6.93e5	7.50e5	0.77	0.75	NO	1.1595	25.92	25.92	NO	1.026	1.027	103	103	NO
19	19 13C-1,2,3,7,8-PeCDD	6.05e5	7.50e5	0.63	0.63	NO	0.9472	30.99	31.05	NO	1.227	1.229	95.2	96.2	NO
20	20 13C-1,2,3,4,7,8-HxCDD	3.72e5	5.37e5	1.24	1.29	NO	0.7499	34.43	34.42	NO	1.014	1.014	92.4	92.4	NO
21	21 13C-1,2,3,6,7,8-HxCDD	5.43e5	6.37e5	1.24	1.26	NO	0.9630	34.54	34.53	NO	1.017	1.017	105	105	NO





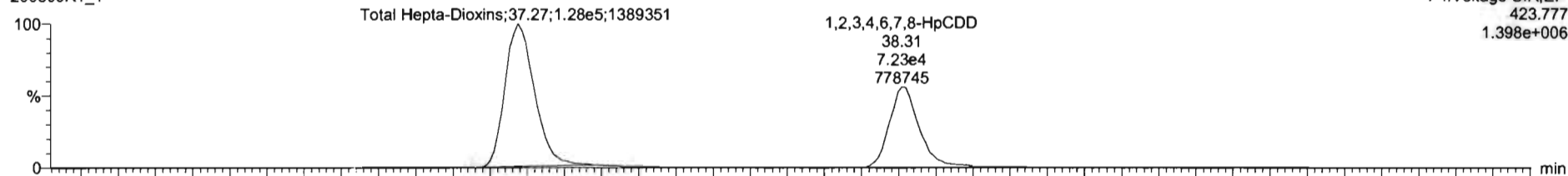
Dataset: Untitled

Last Altered: Wednesday, May 06, 2020 8:48:57 AM Pacific Daylight Time  
Printed: Wednesday, May 06, 2020 8:49:07 AM Pacific Daylight Time

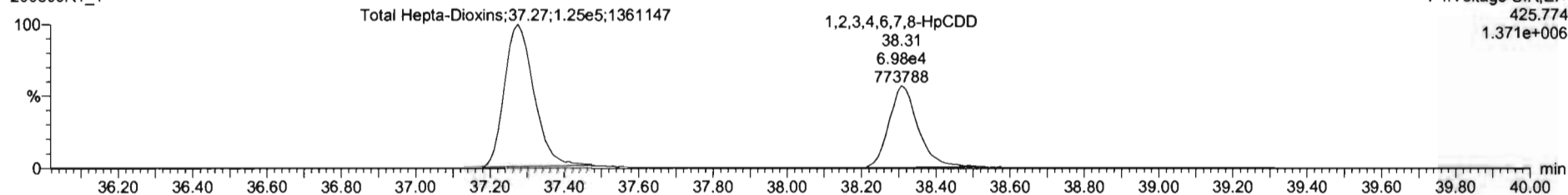
Name: 200506R1\_1, Date: 06-May-2020, Time: 07:56:17, ID: ST200506R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200506R1\_1

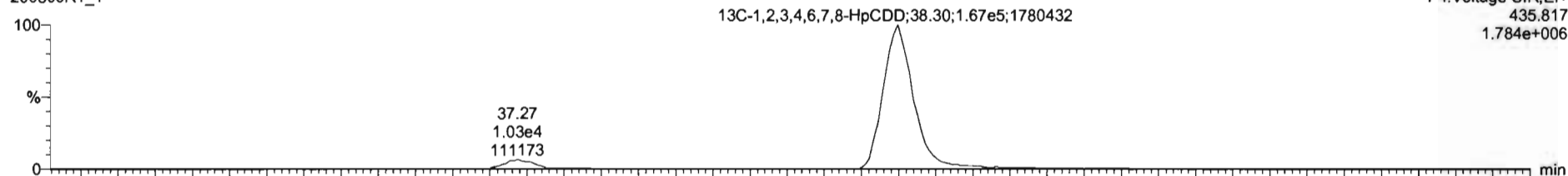


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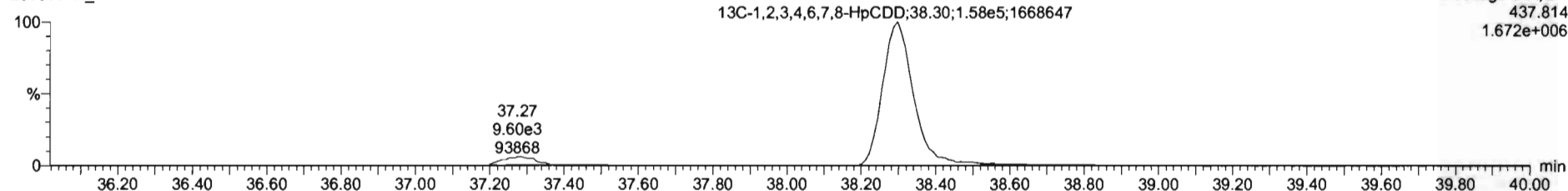


13C-1,2,3,4,6,7,8-HpCDD

200506R1\_1



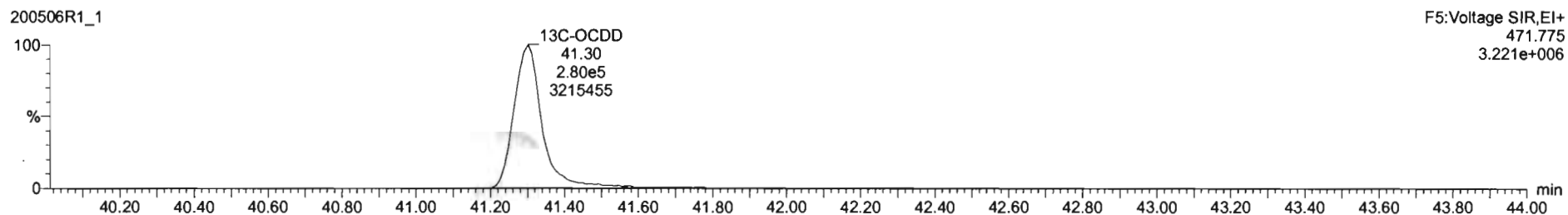
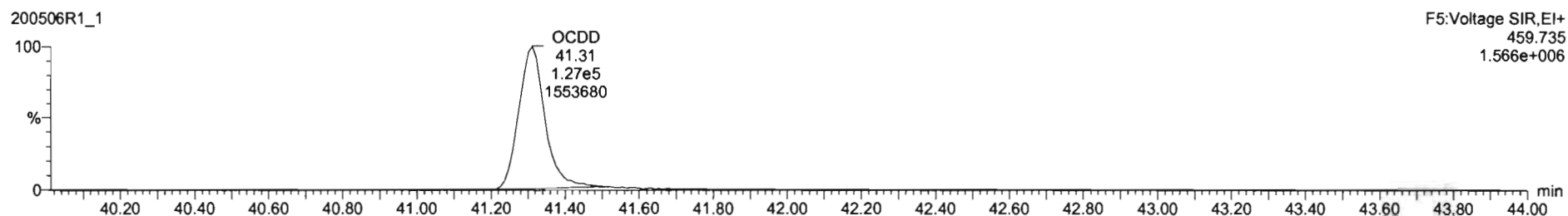
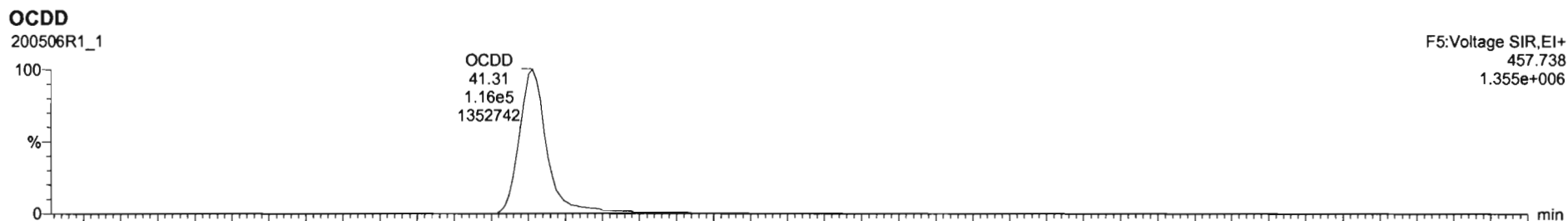
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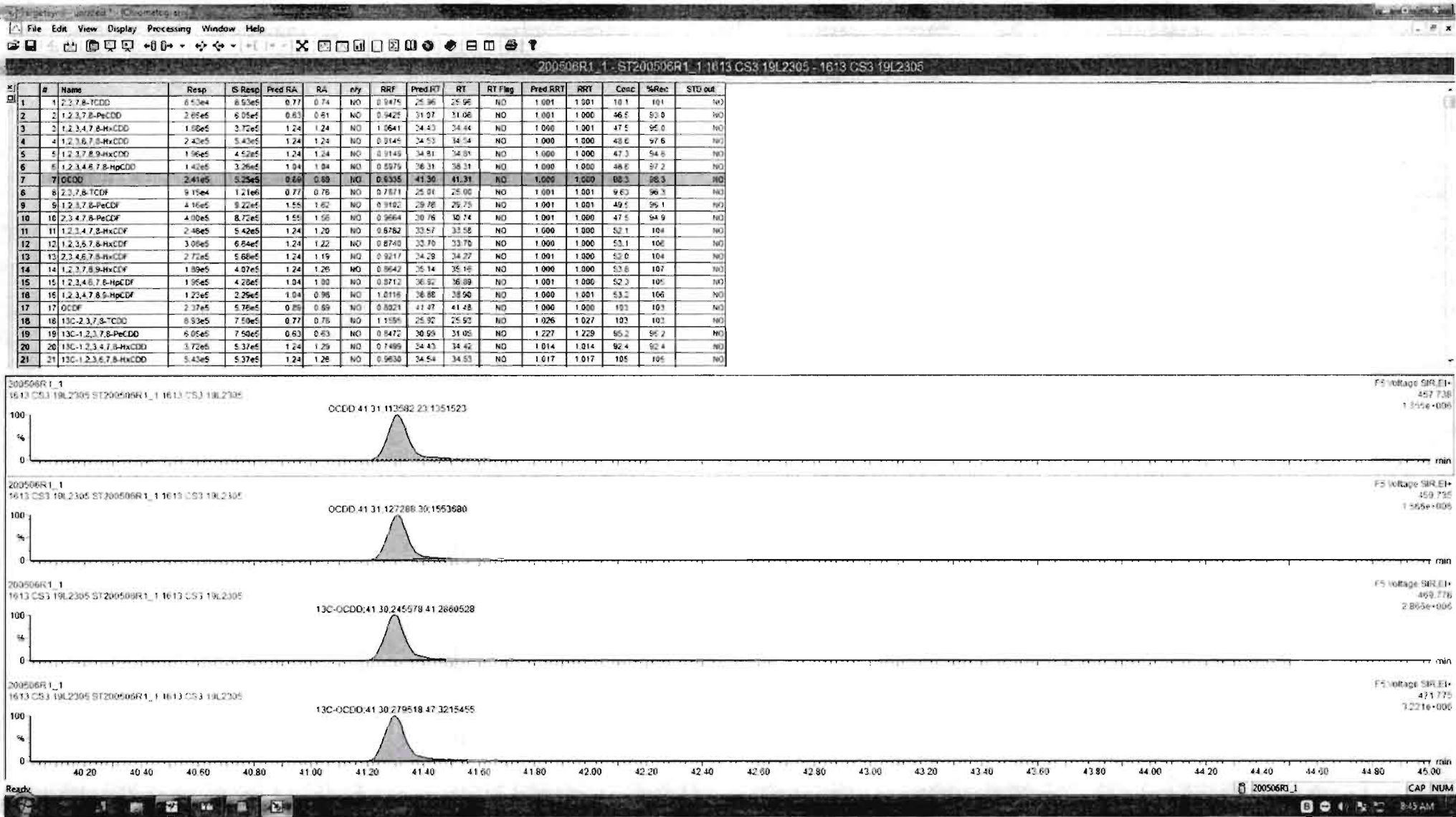


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Printed: Wednesday, May 06, 2020 8:49:07 AM Pacific Daylight Time

Name: 200506R1\_1, Date: 06-May-2020, Time: 07:56:17, ID: ST200506R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



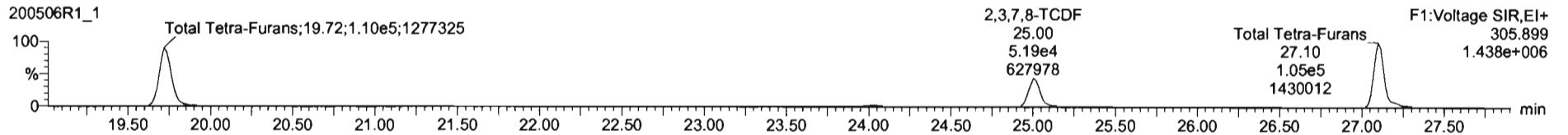
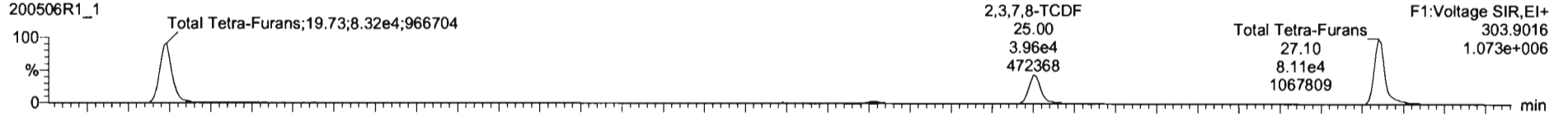


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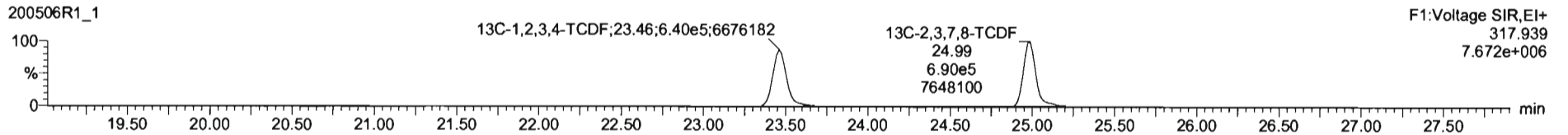
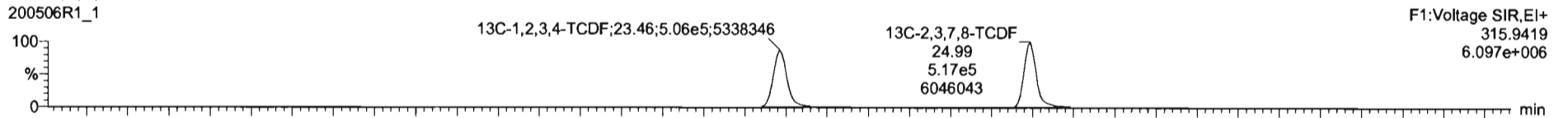
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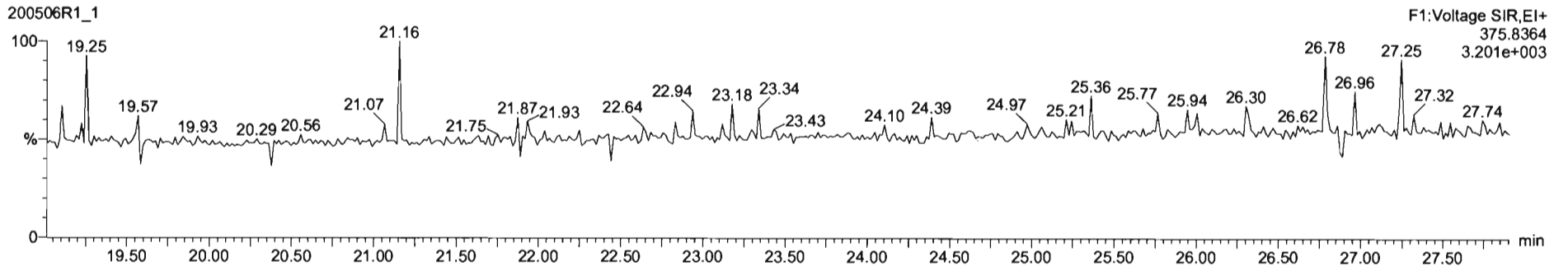
**2,3,7,8-TCDF**



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



**DPE1**





Dataset: Untitled

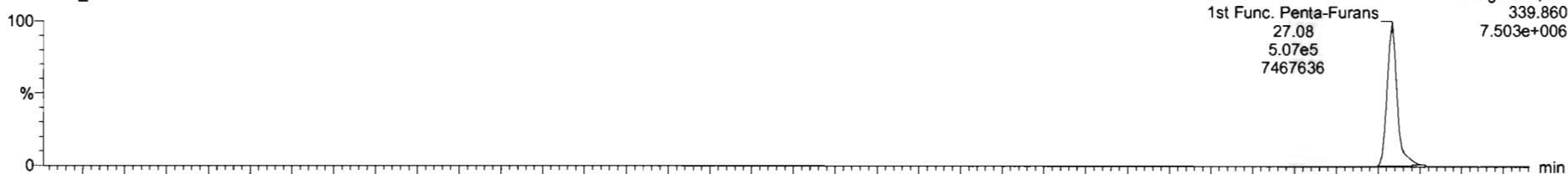
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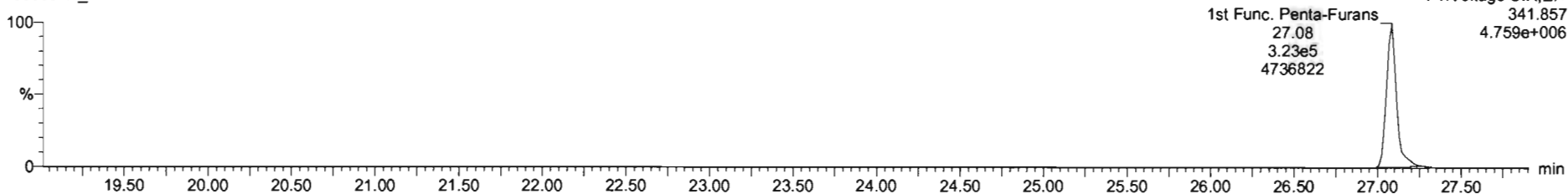
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1st Func. Penta-Furans

200506R1\_1

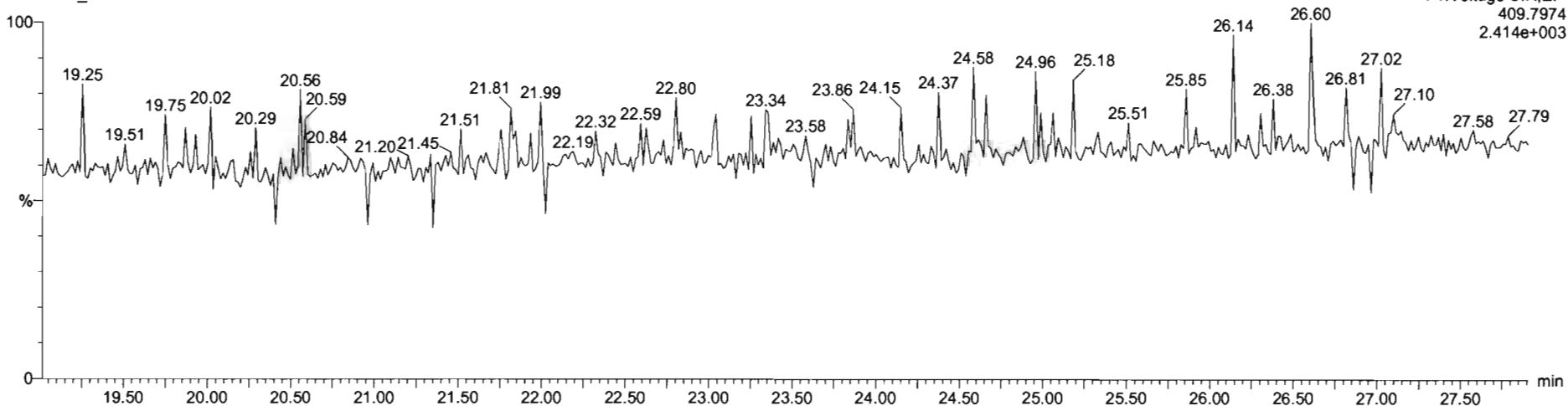


200506R1\_1



DPE6

200506R1\_1



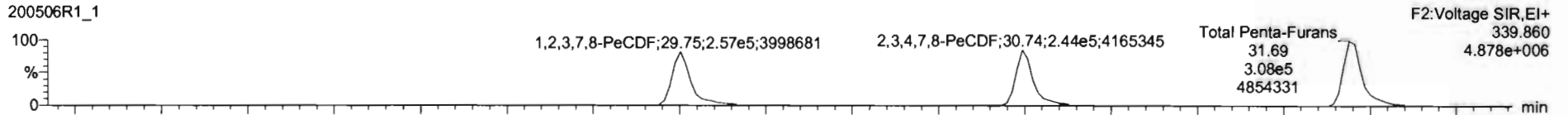
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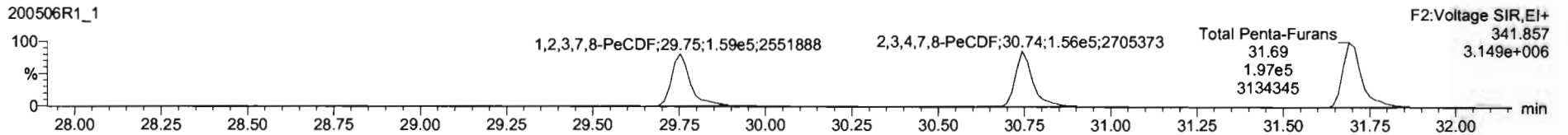
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**1,2,3,7,8-PeCDF**

200506R1\_1

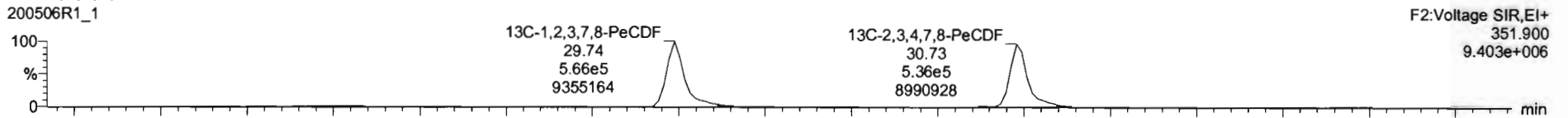


200506R1\_1

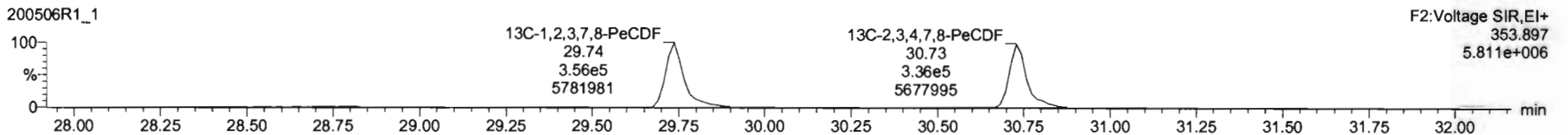


**13C-1,2,3,7,8-PeCDF**

200506R1\_1

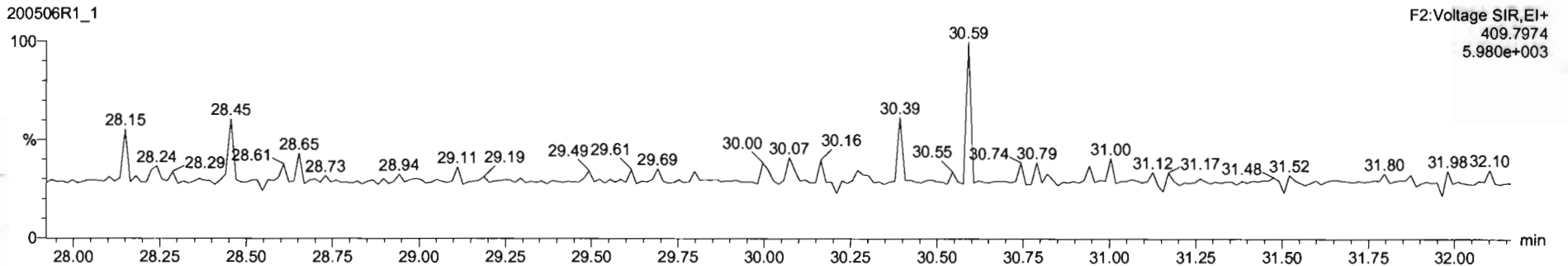


200506R1\_1



**DPE2**

200506R1\_1

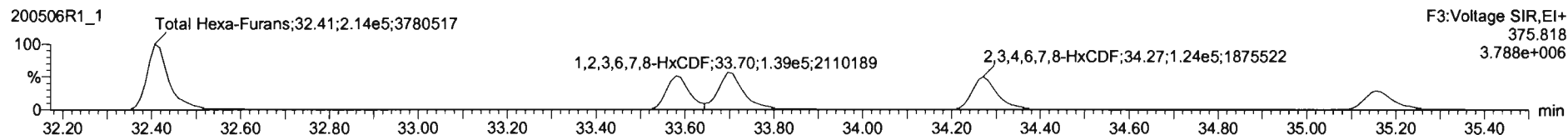
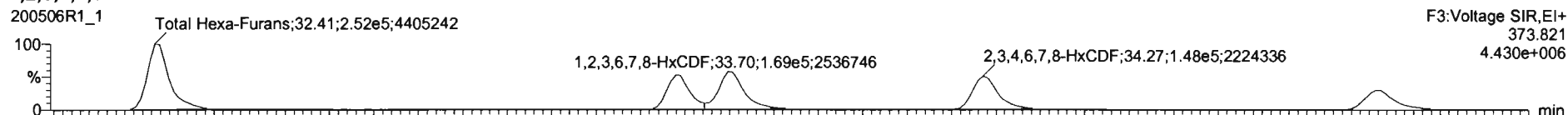


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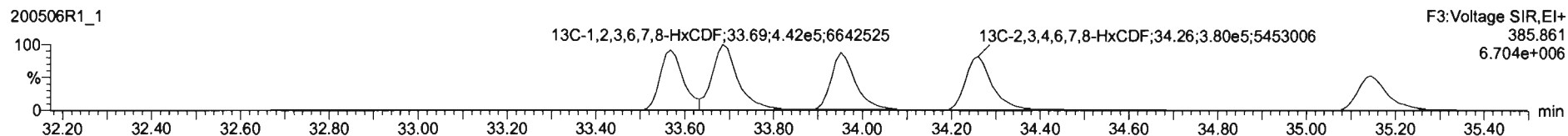
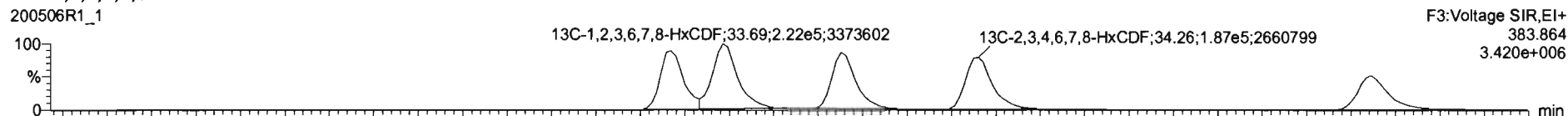
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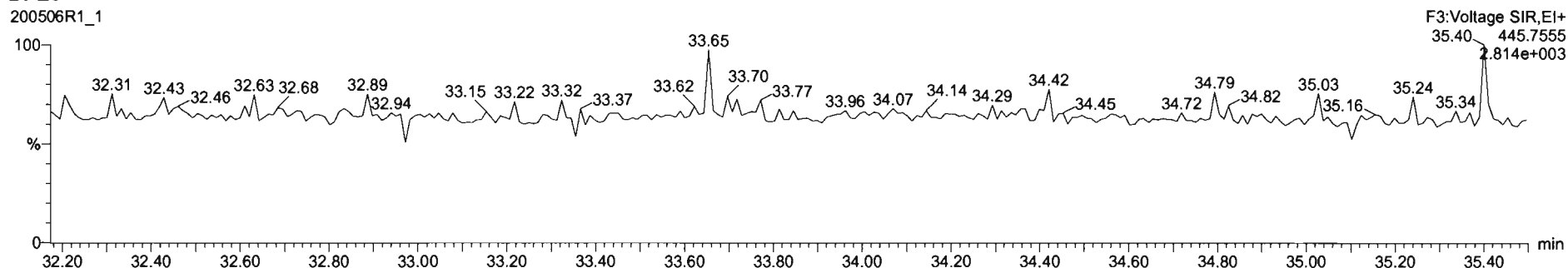
**1,2,3,4,7,8-HxCDF**



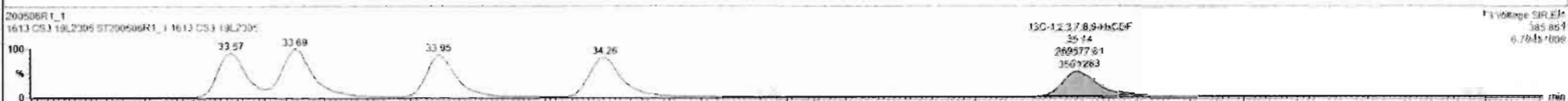
**13C-1,2,3,4,7,8-HxCDF**



**DPE3**



#	Name	Resp	S Resp	Pred RA	RA	nly	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	8.53e4	8.53e5	0.77	0.74	NO	0.9475	25.96	25.96	NO	1.001	1.001	10.1	101	NO
2	1,2,3,7,8-PeCDD	2.85e5	6.95e5	0.63	0.61	NO	0.9425	31.07	31.06	NO	1.001	1.000	46.5	93.0	NO
3	1,2,3,4,7,8-HxCDD	1.86e5	3.72e5	1.24	1.24	NO	1.0641	34.43	34.44	NO	1.000	1.001	47.5	95.0	NO
4	1,2,3,6,7,8-HxCDD	2.43e5	5.43e5	1.24	1.24	NO	0.9145	34.53	34.54	NO	1.000	1.000	48.6	97.6	NO
5	1,2,3,7,8,9-HxCDD	1.96e5	4.52e5	1.24	1.24	NO	0.9149	34.81	34.81	NO	1.000	1.000	47.3	94.6	NO
6	1,2,3,4,6,7,8-HpCDD	1.42e5	3.26e5	1.04	1.04	NO	0.9979	38.31	38.31	NO	1.000	1.000	48.6	97.2	NO
7	OCDD	2.41e5	5.25e5	0.89	0.89	NO	0.9335	41.30	41.31	NO	1.000	1.000	98.3	96.3	NO
8	2,3,7,8-TCDF	9.15e4	1.21e5	0.77	0.76	NO	0.7371	25.01	25.00	NO	1.001	1.001	9.83	96.3	NO
9	1,2,3,7,8-PeCDF	4.16e5	9.22e5	1.55	1.42	NO	0.9102	29.78	29.75	NO	1.001	1.001	49.5	99.1	NO
10	2,3,4,7,8-PeCDF	4.00e5	8.72e5	1.55	1.56	NO	0.9964	30.76	30.74	NO	1.001	1.000	47.5	94.9	NO
11	1,2,3,4,7,8-HxCDF	2.46e5	5.42e5	1.24	1.20	NO	0.9782	33.57	33.58	NO	1.000	1.000	52.1	104	NO
12	1,2,3,6,7,8-HxCDF	3.06e5	6.84e5	1.24	1.22	NO	0.8740	33.70	33.70	NO	1.000	1.000	53.1	106	NO
13	1,2,3,4,6,7,8-HpCDF	2.72e5	5.68e5	1.24	1.19	NO	0.9217	34.79	34.77	NO	1.001	1.000	52.0	104	NO
14	1,2,3,7,8,9-HxCDF	1.87e5	4.07e5	1.24	1.23	NO	0.8642	35.14	35.15	NO	1.000	1.000	53.0	106	NO
15	1,2,3,4,6,7,8-HpCDF	1.95e5	4.28e5	1.04	1.00	NO	0.8712	36.92	36.89	NO	1.001	1.000	52.3	105	NO
16	1,2,3,4,7,8,9-HpCDF	1.23e5	2.29e5	1.04	0.96	NO	1.0116	38.80	38.90	NO	1.000	1.001	53.2	106	NO
17	OCDF	2.37e5	5.78e5	0.89	0.89	NO	0.8821	41.47	41.48	NO	1.000	1.000	103	103	NO
18	13C-2,3,7,8-TCDD	8.93e5	7.50e5	0.77	0.76	NO	1.1555	25.92	25.93	NO	1.026	1.027	103	103	NO
19	13C-1,2,3,7,8-PeCDD	5.05e5	7.50e5	0.63	0.63	NO	0.8472	30.59	31.05	NO	1.227	1.229	95.2	95.2	NO
20	13C-1,2,3,4,7,8-HxCDD	3.72e5	5.37e5	1.24	1.29	NO	0.7499	34.43	34.42	NO	1.014	1.014	92.4	92.4	NO
21	13C-1,2,3,6,7,8-HxCDD	5.43e5	5.37e5	1.24	1.26	NO	0.9630	34.54	34.53	NO	1.017	1.017	105	105	NO



Ready

1613 CS3 19L2305 1613 CS3 19L2305

8:46 AM

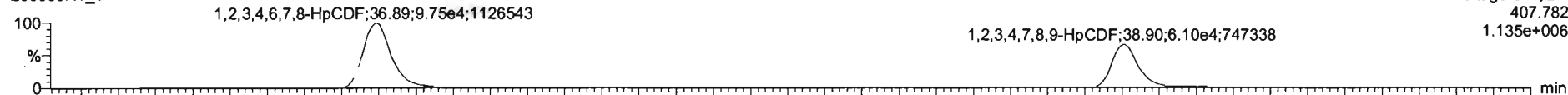
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Last Altered: Wednesday, May 06, 2020 8:48:57 AM Pacific Daylight Time  
Printed: Wednesday, May 06, 2020 8:49:07 AM Pacific Daylight Time

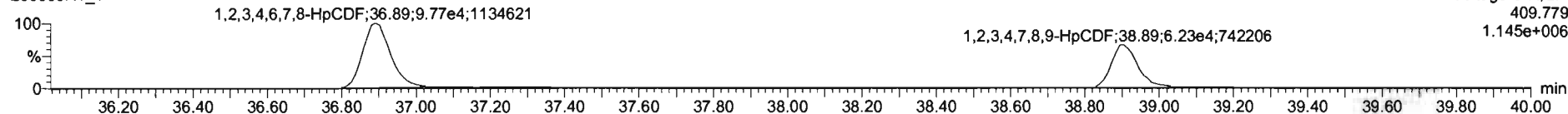
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**1,2,3,4,6,7,8-HpCDF**

200506R1\_1

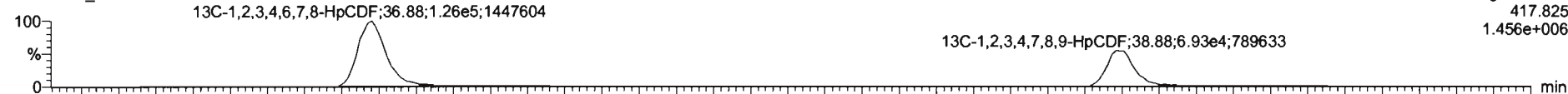


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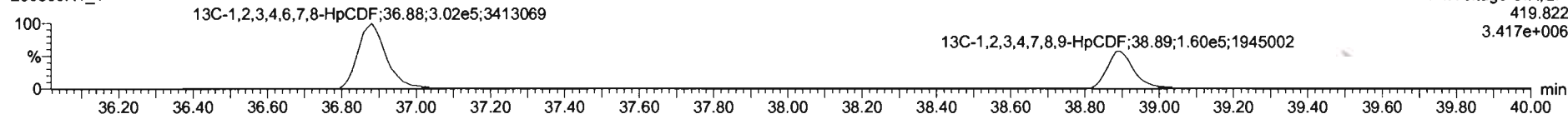


**13C-1,2,3,4,6,7,8-HpCDF**

200506R1\_1

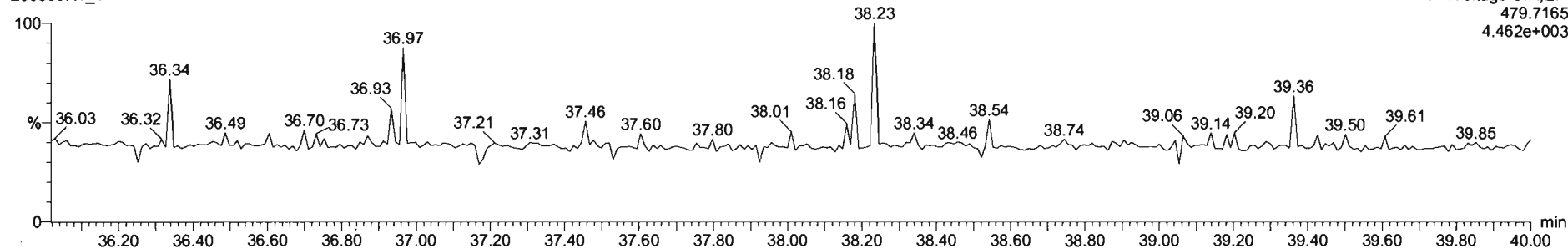


200506R1\_1



**DPE4**

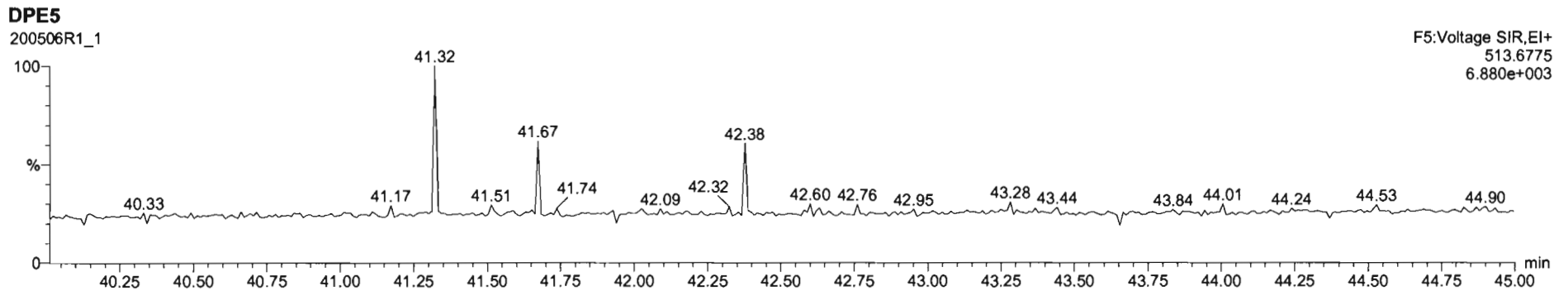
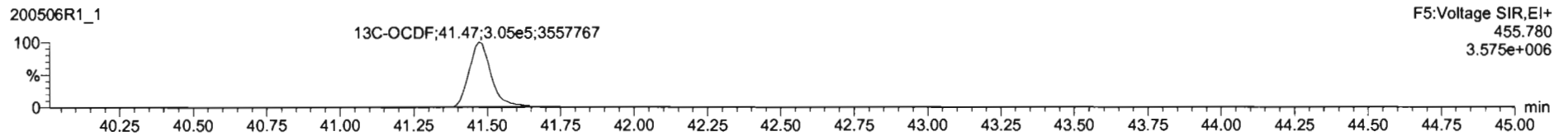
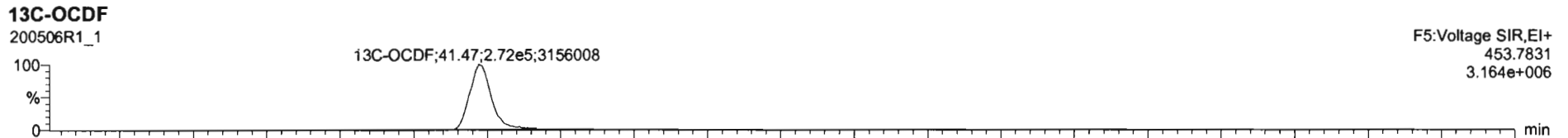
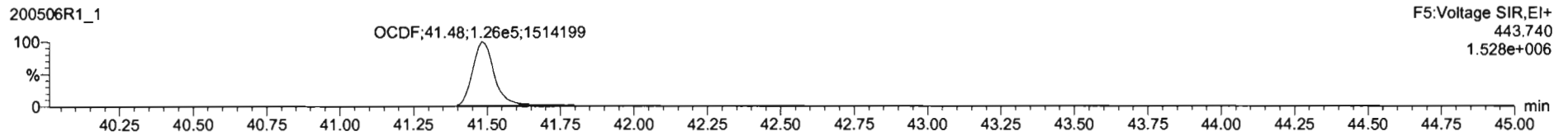
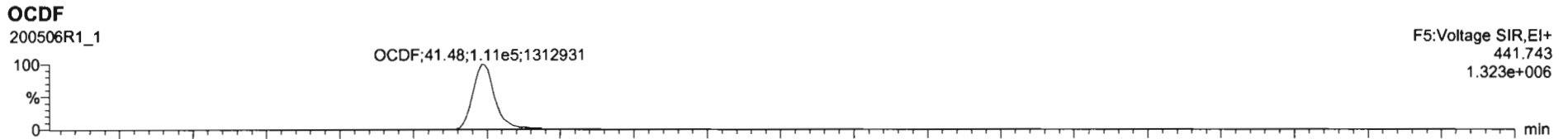
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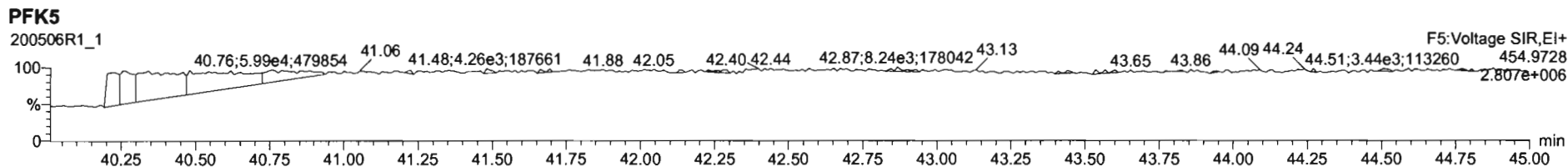
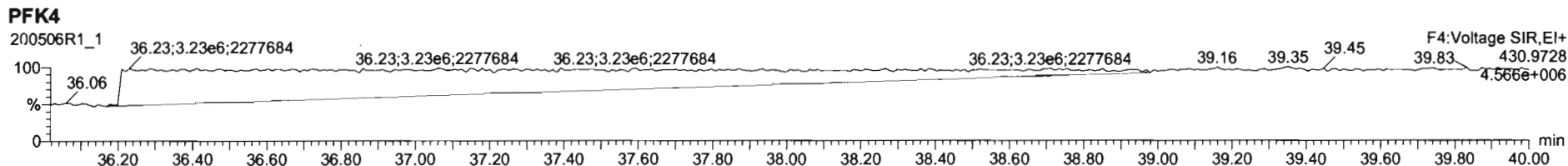
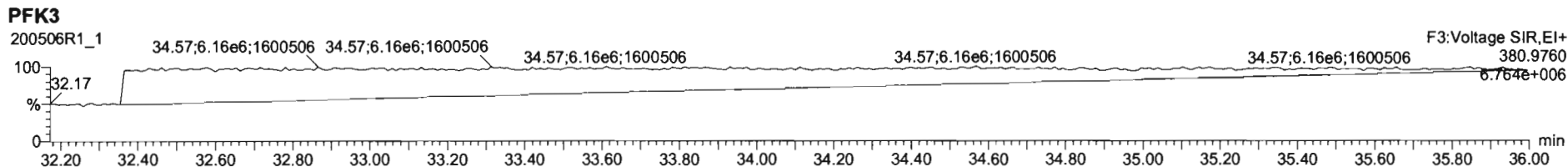
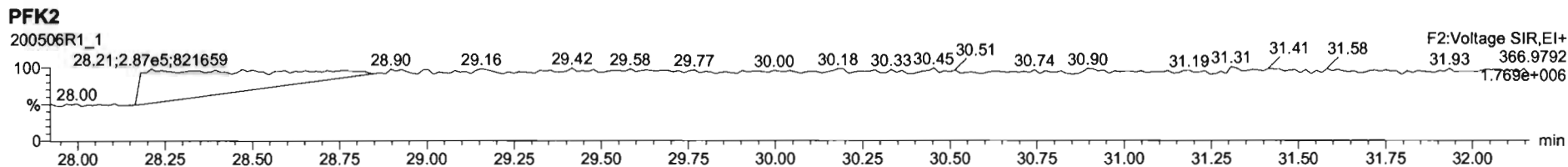
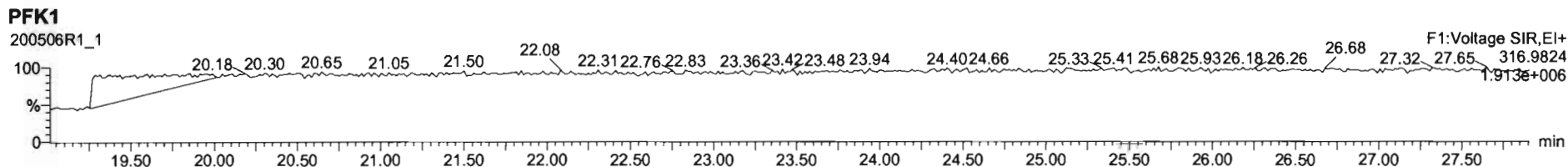
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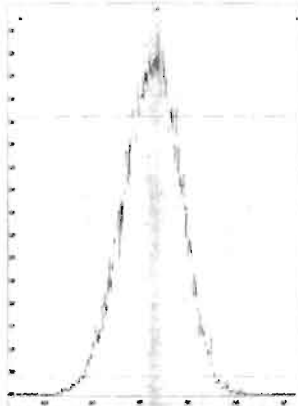
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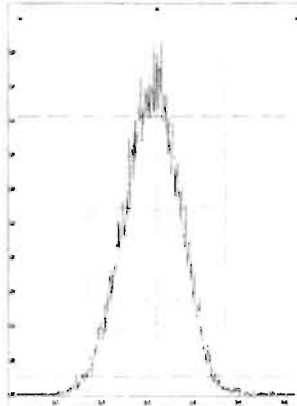
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Printed: Wednesday, May 06, 2020 13:32:16 Pacific Daylight Time

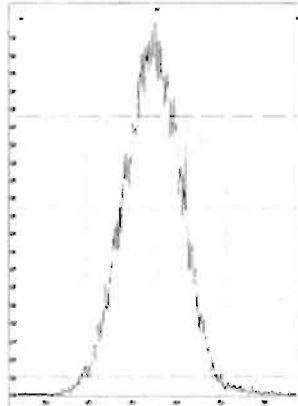
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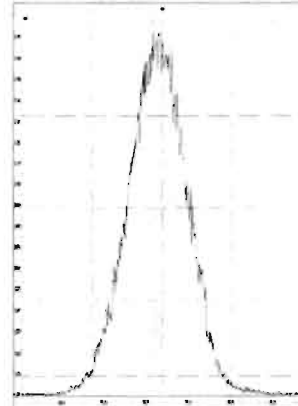
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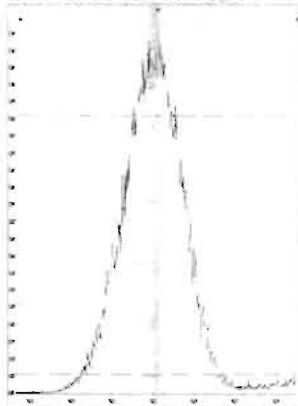
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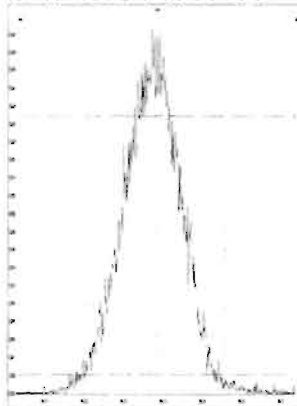
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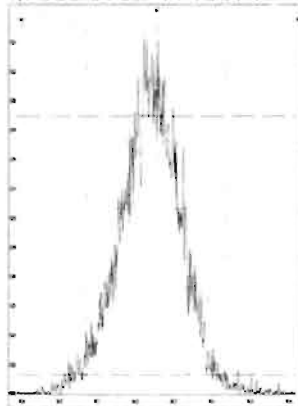
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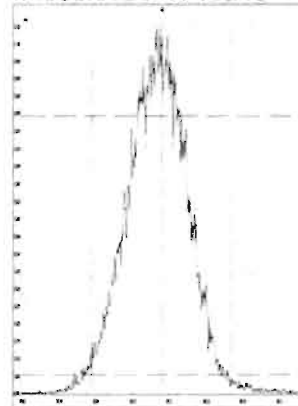
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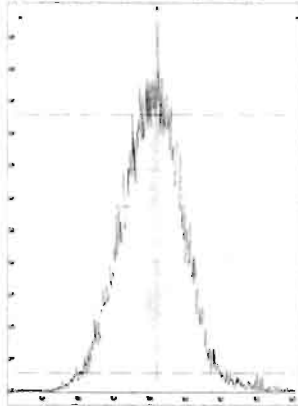
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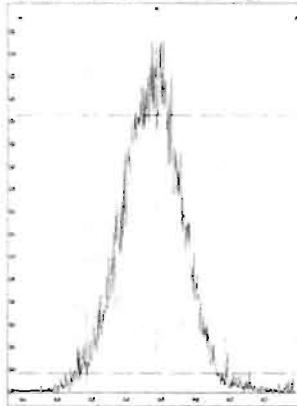
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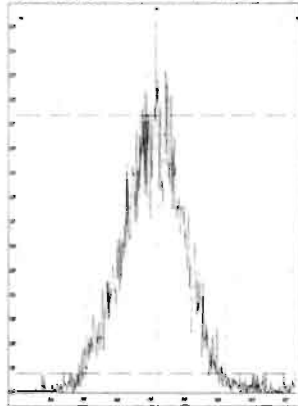
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M 404.9760 R 10822



M 416.9760 R 11109

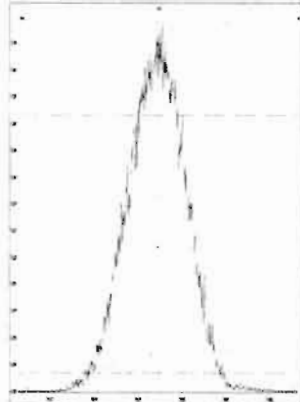




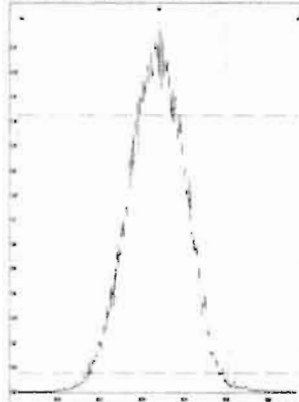
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Printed: Wednesday, May 06, 2020 13:32:41 Pacific Daylight Time

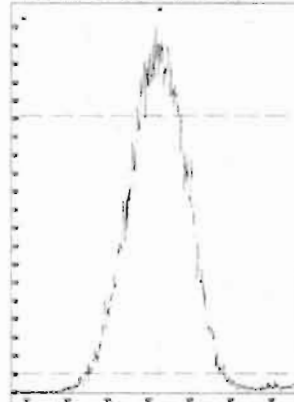
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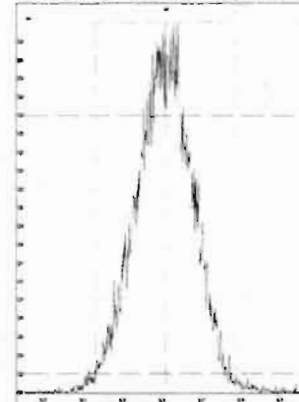
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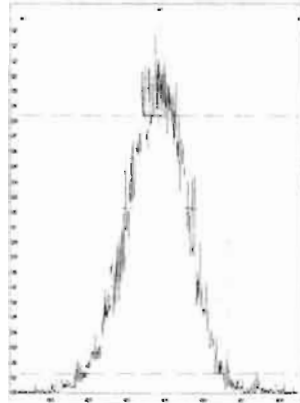
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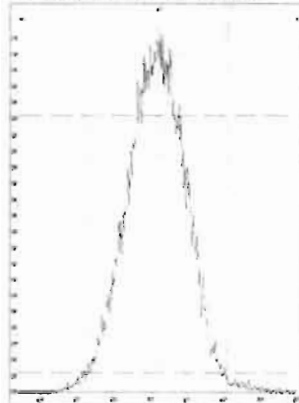
M 354.9792 R 10822



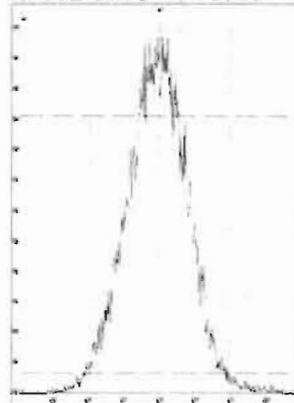
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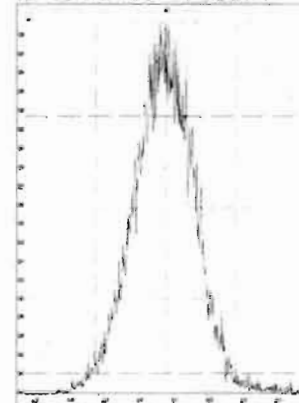
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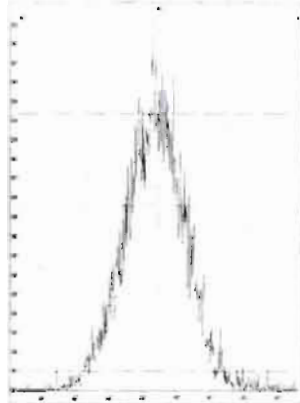
M 392.9760 R 10039



M 404.9760 R 10374



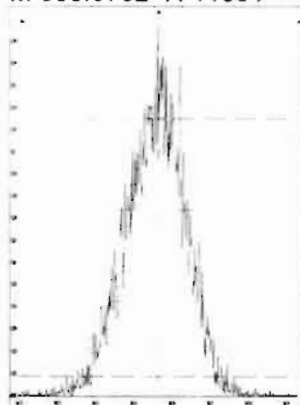
M 416.9760 R 11210



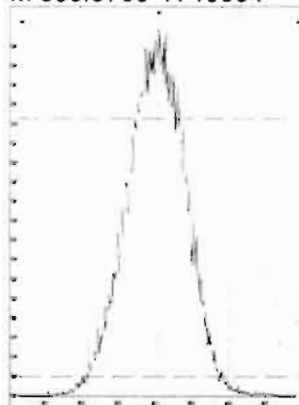
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Wednesday, May 06, 2020 13:33:07 Pacific Daylight Time

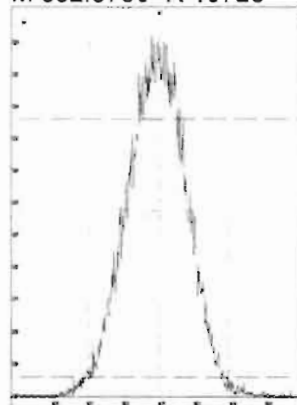
M 366.9792 R 11361



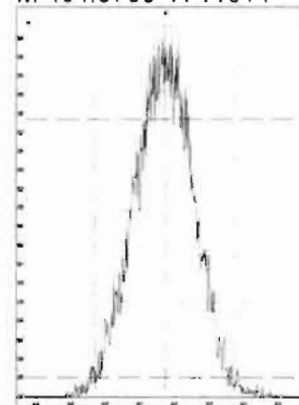
M 380.9760 R 10684



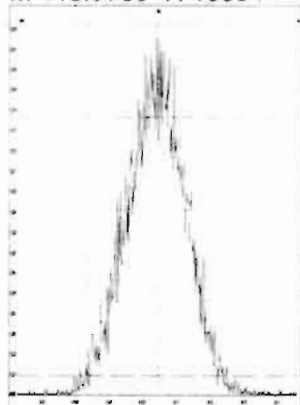
M 392.9760 R 10728



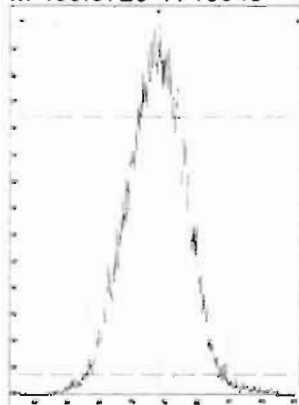
M 404.9760 R 11014



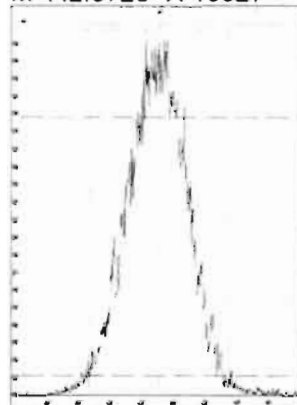
M 416.9760 R 10964



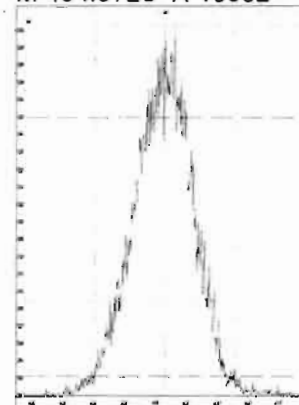
M 430.9728 R 10546



M 442.9728 R 10327



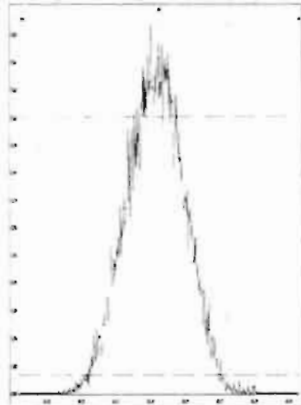
M 454.9728 R 10592



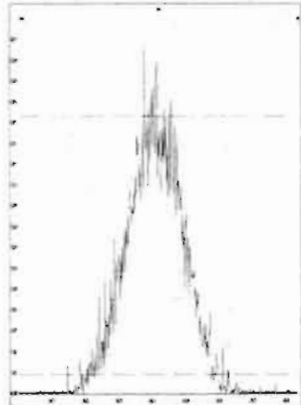
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Wednesday, May 06, 2020 13:33:38 Pacific Daylight Time

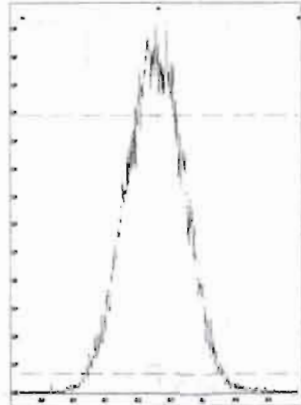
M 404.9760 R 10820



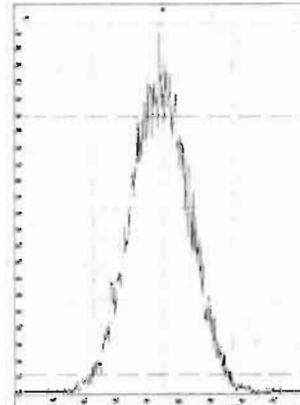
M 416.9760 R 11161



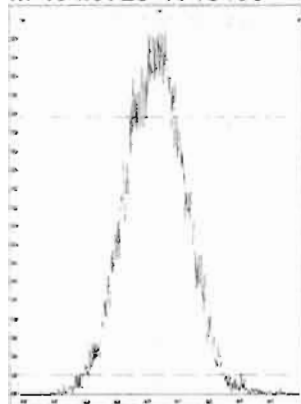
M 430.9728 R 10507



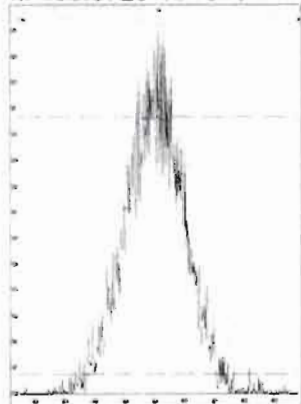
M 442.9728 R 10461



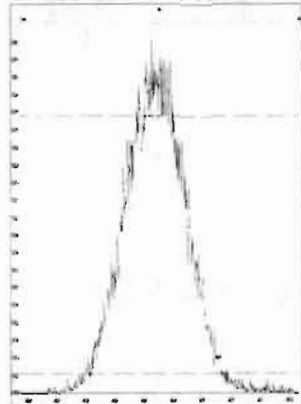
M 454.9728 R 10460



M 466.9728 R 10731



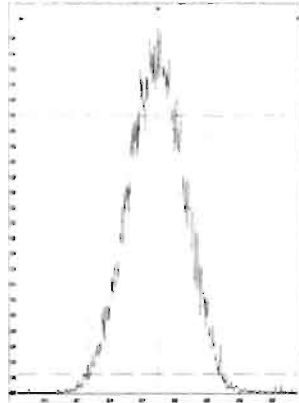
M 480.9696 R 10081



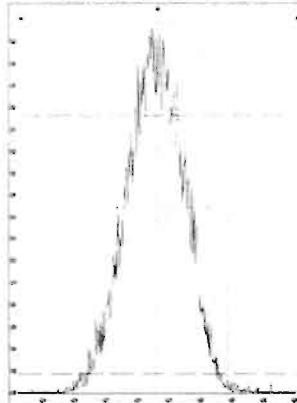
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Wednesday, May 06, 2020 13:33:59 Pacific Daylight Time

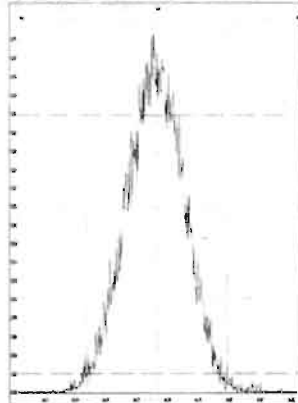
M 430.9728 R 10819



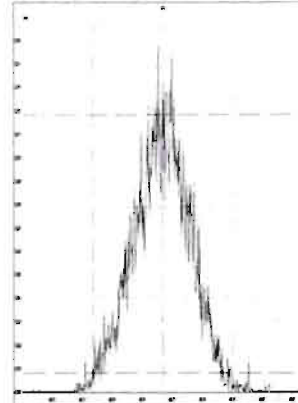
M 442.9728 R 10728



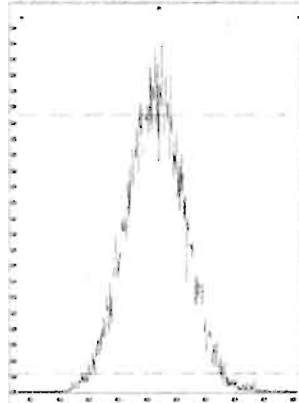
M 454.9728 R 11014



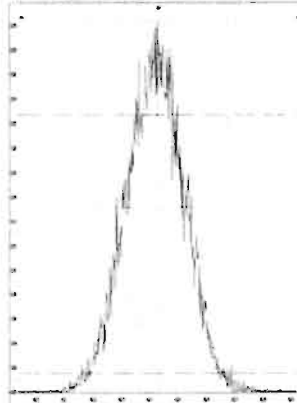
M 466.9728 R 11111



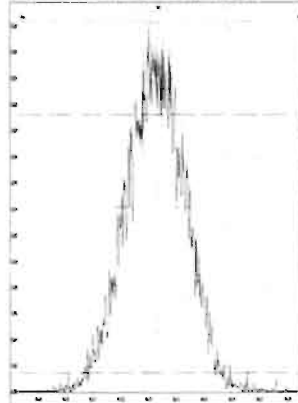
M 480.9696 R 10731



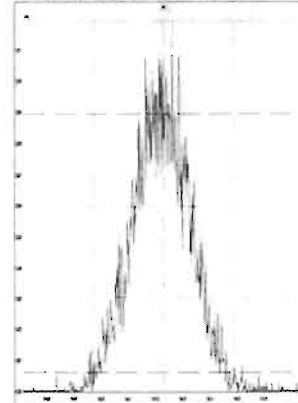
M 492.9696 R 10460



M 504.9696 R 11061



M 516.9697 R 10684



Dataset: U:\VG12.PRO\Results\200506R2\200506R2-1.qld

Last Altered: Wednesday, May 06, 2020 2:25:28 PM Pacific Daylight Time  
Printed: Wednesday, May 06, 2020 2:25:59 PM Pacific Daylight Time

*GPB 05/06/2020*

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02  
Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

*GT 05/07/2020*

Name: 200506R2\_1, Date: 06-May-2020, Time: 13:35:58, ID: ST200506R2\_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	8.04e4	8.92e5	0.76	NO	0.947	25.99	25.99	NO	1.001	1.001	9.5117	95.1	NO
2	2 1,2,3,7,8-PeCDD	2.79e5	6.29e5	0.61	NO	0.942	31.10	31.09	NO	1.001	1.000	47.082	94.2	NO
3	3 1,2,3,4,7,8-HxCDD	2.22e5	4.13e5	1.25	NO	1.06	34.46	34.46	NO	1.000	1.000	50.484	101	NO
4	4 1,2,3,6,7,8-HxCDD	2.41e5	5.50e5	1.24	NO	0.915	34.55	34.57	NO	1.000	1.001	47.862	95.7	NO
5	5 1,2,3,7,8,9-HxCDD	2.10e5	4.78e5	1.24	NO	0.915	34.84	34.84	NO	1.000	1.000	47.988	96.0	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.45e5	3.21e5	1.05	NO	0.898	38.33	38.34	NO	1.000	1.001	50.185	100	NO
7	7 OCDD	2.42e5	4.95e5	0.87	NO	0.933	41.31	41.32	NO	1.000	1.000	104.79	105	NO
8	8 2,3,7,8-TCDF	9.30e4	1.20e6	0.76	NO	0.787	25.04	25.03	NO	1.001	1.001	9.8769	98.8	NO
9	9 1,2,3,7,8-PeCDF	4.31e5	9.78e5	1.56	NO	0.910	29.79	29.77	NO	1.001	1.000	48.450	96.9	NO
10	10 2,3,4,7,8-PeCDF	4.37e5	9.24e5	1.57	NO	0.966	30.79	30.77	NO	1.001	1.000	48.905	97.8	NO
11	11 1,2,3,4,7,8-HxCDF	2.74e5	5.98e5	1.21	NO	0.878	33.59	33.61	NO	1.000	1.001	52.152	104	NO
12	12 1,2,3,6,7,8-HxCDF	3.27e5	7.04e5	1.18	NO	0.874	33.72	33.73	NO	1.000	1.001	53.077	106	NO
13	13 2,3,4,6,7,8-HxCDF	2.87e5	5.91e5	1.22	NO	0.922	34.32	34.29	NO	1.001	1.000	52.757	106	NO
14	14 1,2,3,7,8,9-HxCDF	1.98e5	4.34e5	1.20	NO	0.864	35.17	35.19	NO	1.000	1.001	52.824	106	NO
15	15 1,2,3,4,6,7,8-HpCDF	2.07e5	4.38e5	1.01	NO	0.871	36.94	36.91	NO	1.001	1.000	54.217	108	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.20e5	2.21e5	0.97	NO	1.01	38.91	38.93	NO	1.000	1.000	53.877	108	NO
17	17 OCDF	2.28e5	5.31e5	0.86	NO	0.802	41.49	41.50	NO	1.000	1.000	107.01	107	NO
18	18 13C-2,3,7,8-TCDD	8.92e5	7.44e5	0.79	NO	1.16	25.95	25.96	NO	1.026	1.027	103.53	104	NO
19	19 13C-1,2,3,7,8-PeCDD	6.29e5	7.44e5	0.63	NO	0.847	31.03	31.08	NO	1.227	1.229	99.900	99.9	NO
20	20 13C-1,2,3,4,7,8-HxCDD	4.13e5	5.73e5	1.29	NO	0.750	34.46	34.45	NO	1.014	1.014	96.105	96.1	NO
21	21 13C-1,2,3,6,7,8-HxCDD	5.50e5	5.73e5	1.27	NO	0.963	34.57	34.55	NO	1.017	1.017	99.673	99.7	NO
22	22 13C-1,2,3,7,8,9-HxCDD	4.78e5	5.73e5	1.23	NO	0.838	34.84	34.83	NO	1.025	1.025	99.649	99.6	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.21e5	5.73e5	1.02	NO	0.641	38.33	38.32	NO	1.128	1.128	87.318	87.3	NO
24	24 13C-OCDD	4.95e5	5.73e5	0.91	NO	0.586	41.32	41.31	NO	1.216	1.216	147.34	73.7	NO
25	25 13C-2,3,7,8-TCDF	1.20e6	1.13e6	0.78	NO	1.03	25.02	25.02	NO	0.989	0.989	102.24	102	NO
26	26 13C-1,2,3,7,8-PeCDF	9.78e5	1.13e6	1.59	NO	0.845	29.72	29.77	NO	1.176	1.177	102.31	102	NO
27	27 13C-2,3,4,7,8-PeCDF	9.24e5	1.13e6	1.60	NO	0.814	30.71	30.76	NO	1.215	1.216	100.31	100	NO
28	28 13C-1,2,3,4,7,8-HxCDF	5.98e5	5.73e5	0.51	NO	1.00	33.60	33.59	NO	0.989	0.988	103.89	104	NO
29	29 13C-1,2,3,6,7,8-HxCDF	7.04e5	5.73e5	0.52	NO	1.14	33.73	33.71	NO	0.992	0.992	108.12	108	NO
30	30 13C-2,3,4,6,7,8-HxCDF	5.91e5	5.73e5	0.52	NO	1.02	34.29	34.28	NO	1.009	1.009	100.89	101	NO
31	31 13C-1,2,3,7,8,9-HxCDF	4.34e5	5.73e5	0.51	NO	0.845	35.18	35.17	NO	1.035	1.035	89.748	89.7	NO

Dataset: U:\VG12.PRO\Results\200506R2\200506R2-1.qld

Last Altered: Wednesday, May 06, 2020 2:25:28 PM Pacific Daylight Time

Printed: Wednesday, May 06, 2020 2:25:59 PM Pacific Daylight Time

Name: 200506R2\_1, Date: 06-May-2020, Time: 13:35:58, ID: ST200506R2\_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	4.38e5	5.73e5	0.43	NO	0.771	36.91	36.90	NO	1.086	1.086	99.094	99.1	NO
33	13C-1,2,3,4,7,8,9-HpCDF	2.21e5	5.73e5	0.43	NO	0.482	38.92	38.91	NO	1.145	1.145	79.939	79.9	NO
34	13C-OCDF	5.31e5	5.73e5	0.87	NO	0.669	41.49	41.49	NO	1.221	1.221	138.55	69.3	NO
35	37Cl-2,3,7,8-TCDD	8.02e4	7.44e5			1.10	25.98	25.97	NO	1.028	1.027	9.8140	98.1	NO
36	13C-1,2,3,4-TCDD	7.44e5	7.44e5	0.79	NO	1.00	25.35	25.29	NO	1.000	1.000	100.00	100	NO
37	13C-1,2,3,4-TCDF	1.13e6	1.13e6	0.80	NO	1.00	23.56	23.49	NO	1.000	1.000	100.00	100	NO
38	13C-1,2,3,4,6,9-HxCDF	5.73e5	5.73e5	0.51	NO	1.00	34.00	33.98	NO	1.000	1.000	100.00	100	YEs <i>ok</i>

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Thursday, May 07, 2020 7:13:25 AM Pacific Daylight Time

Printed: Thursday, May 07, 2020 7:14:05 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

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

	Name	ID	Acq.Date	Acq.Time
1	200506R2_1	ST200506R2_1 1613 CS3 19L2305	06-May-20	13:35:58
2	200506R2_2	B0D0323-BS1 OPR 10	06-May-20	14:23:12
3	200506R2_3	SOLVENT BLANK	06-May-20	15:10:11
4	200506R2_4	B0D0323-BLK1 Method Blank 10	06-May-20	15:56:26
5	200506R2_5	B0D0323-DUP1 Duplicate 12.5	06-May-20	16:42:36
6	200506R2_6	2000951-01 PDI-1159SC-A-01-02-200423 12.82	06-May-20	17:28:49
7	200506R2_7	2000951-02 PDI-159SC-A-00-01-200423 16.8	06-May-20	18:15:01
8	200506R2_8	2000951-03 PDI-159SC-A-01-02-200423 12.95	06-May-20	19:01:12
9	200506R2_9	2000951-04 PDI-159SC-A-02-03-200423 12.33	06-May-20	19:47:23
10	200506R2_10	2000951-05RE2 PDI-159SC-A-03-04-200423 ...	06-May-20	20:33:36
11	200506R2_11	2000951-06 PDI-159SC-A-04-05-200423 11.05	06-May-20	21:19:47
12	200506R2_12	2000951-07 PDI-159SC-A-05-06-200423 11.25	06-May-20	22:05:59
13	200506R2_13	2000951-08 PDI-159SC-A-06-07-200423 12.3	06-May-20	22:52:12
14	200506R2_14	2000951-09 PDI-159SC-A-07-08-200423 12.26	06-May-20	23:38:22
15	200506R2_15	2000953-01 PDI-165SC-A-00-01-200426 12.04	07-May-20	00:24:34
16	200506R2_16	2000953-02 PDI-165SC-A-01-02-200426 12.15	07-May-20	01:10:46

Dataset: Untitled

Last Altered: Wednesday, May 06, 2020 2:26:11 PM Pacific Daylight Time

Printed: Wednesday, May 06, 2020 2:26:24 PM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 08 Apr 2020 10:53:44

Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200506R2\_1, Date: 06-May-2020, Time: 13:35:58, ID: ST200506R2\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1,3,6,8-TCDD (First)	21.81
2	1,2,8,9-TCDD (Last)	26.98
3	1,2,4,7,9-PeCDD (First)	28.84
4	1,2,3,8,9-PeCDD (Last)	31.48
5	1,2,4,6,7,9-HxCDD (First)	32.99
6	1,2,3,7,8,9-HxCDD (Last)	34.84
7	1,2,3,4,6,7,9-HpCDD (First)	37.31
8	1,2,3,4,6,7,8-HpCDD (Last)	38.34
9	1,3,6,8-TCDF (First)	19.75
10	1,2,8,9-TCDF (Last)	27.13
11	1,3,4,6,8-PeCDF (First)	27.11
12	1,2,3,8,9-PeCDF (Last)	31.72
13	1,2,3,4,6,8-HxCDF (First)	32.44
14	1,2,3,7,8,9-HxCDF (Last)	35.19
15	1,2,3,4,6,7,8-HpCDF (First)	36.91
16	1,2,3,4,7,8,9-HpCDF (Last)	38.93



Dataset: Untitled

Last Altered: Wednesday, May 06, 2020 2:26:11 PM Pacific Daylight Time  
Printed: Wednesday, May 06, 2020 2:26:24 PM Pacific Daylight Time

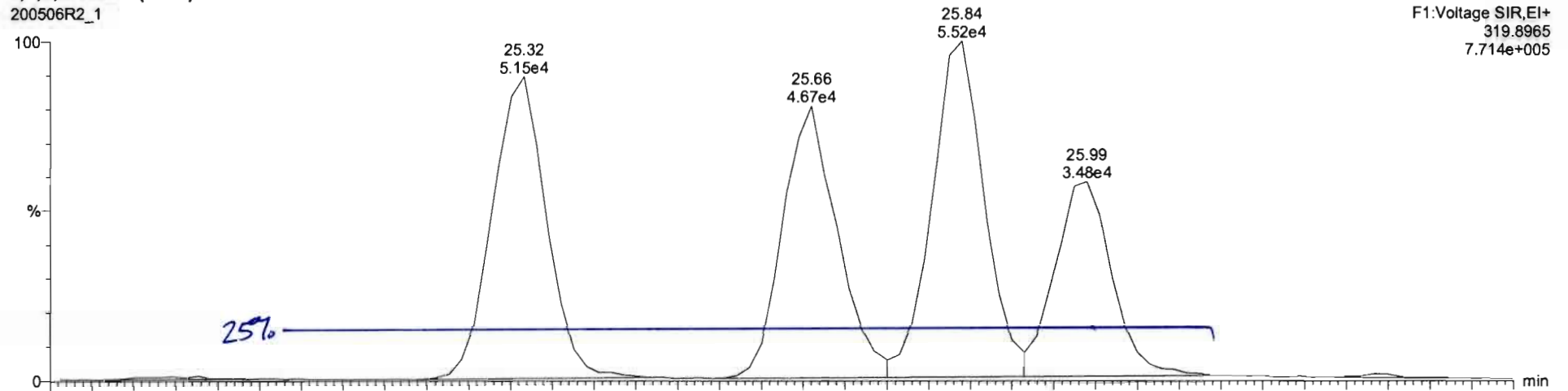
GPB 05/06/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 08 Apr 2020 10:53:44  
Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

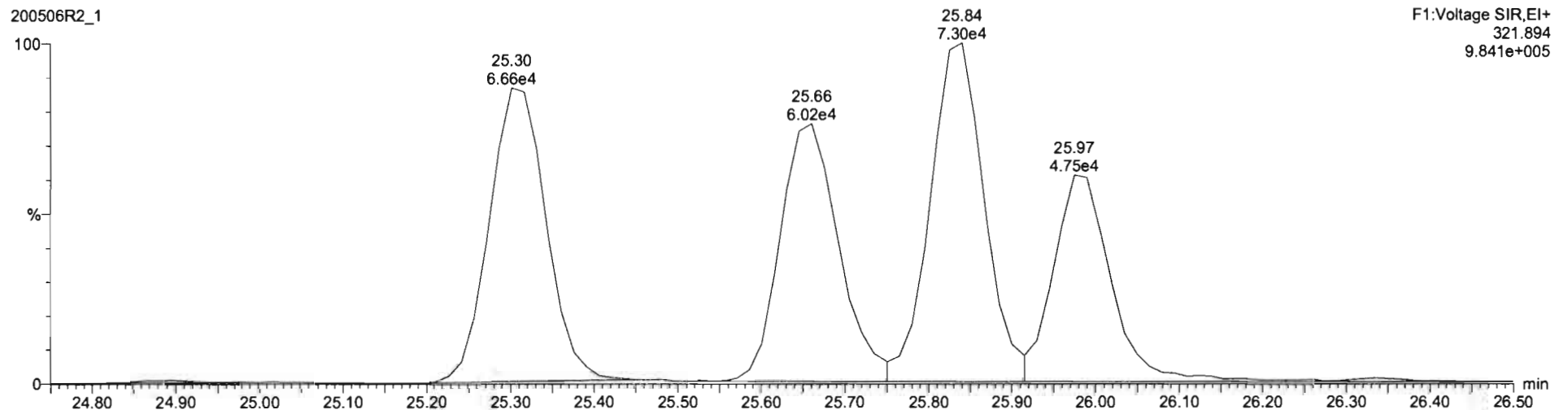
Name: 200506R2\_1, Date: 06-May-2020, Time: 13:35:58, ID: ST200506R2\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200506R2\_1



200506R2\_1



Dataset: Untitled

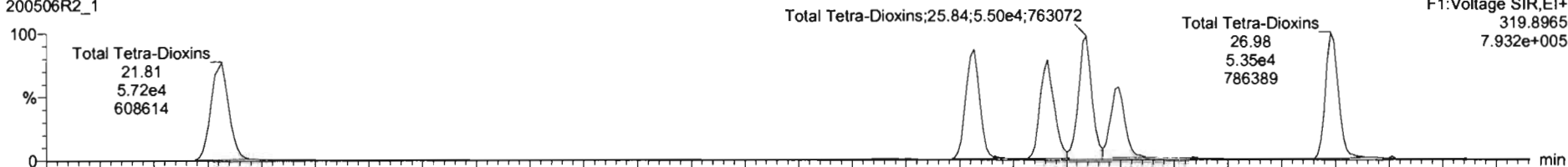
Last Altered: Wednesday, May 06, 2020 2:22:19 PM Pacific Daylight Time  
Printed: Wednesday, May 06, 2020 2:24:15 PM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02  
Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

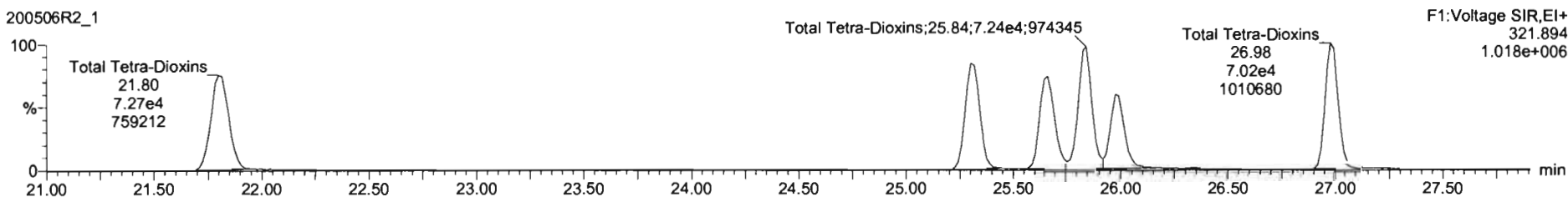
Name: 200506R2\_1, Date: 06-May-2020, Time: 13:35:58, ID: ST200506R2\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

**2,3,7,8-TCDD**

200506R2\_1

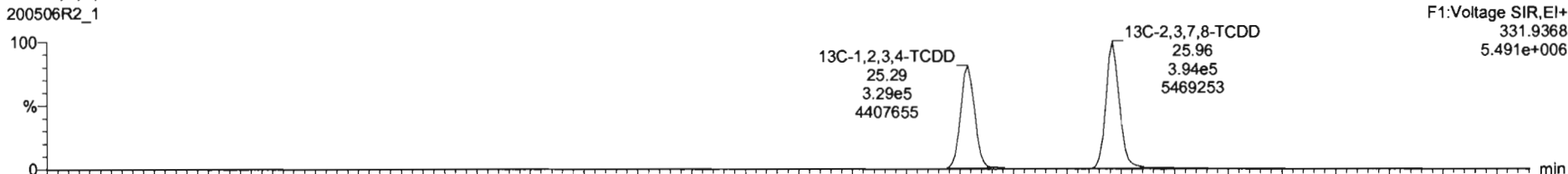


200506R2\_1

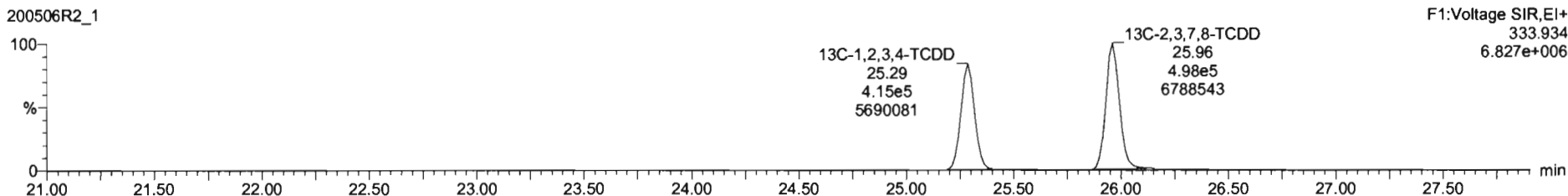


**13C-2,3,7,8-TCDD**

200506R2\_1



200506R2\_1



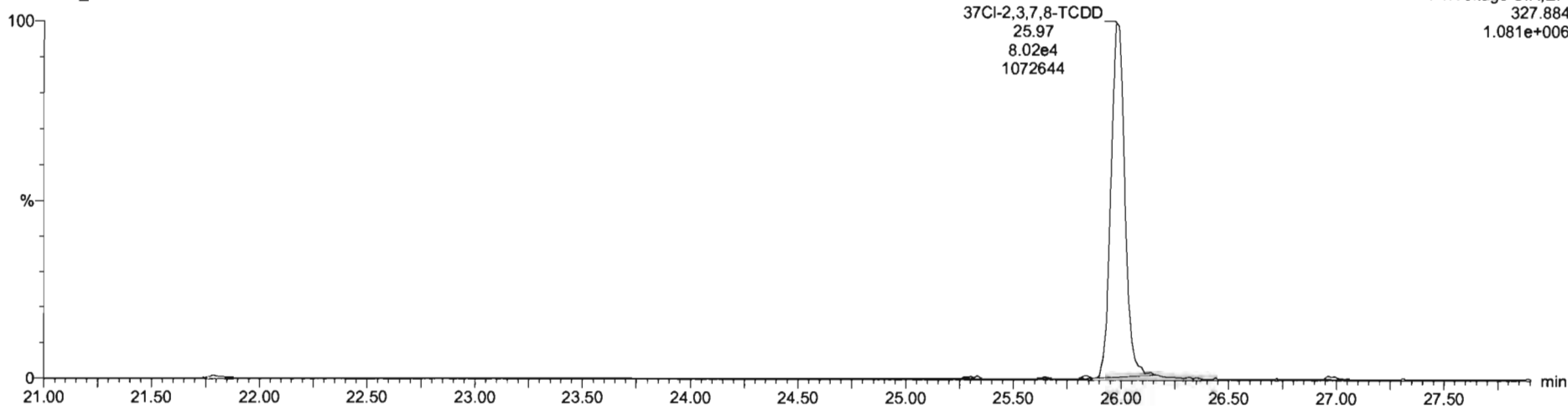
Dataset: Untitled

Last Altered: Wednesday, May 06, 2020 2:22:19 PM Pacific Daylight Time  
Printed: Wednesday, May 06, 2020 2:24:15 PM Pacific Daylight Time

Name: 200506R2\_1, Date: 06-May-2020, Time: 13:35:58, ID: ST200506R2\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

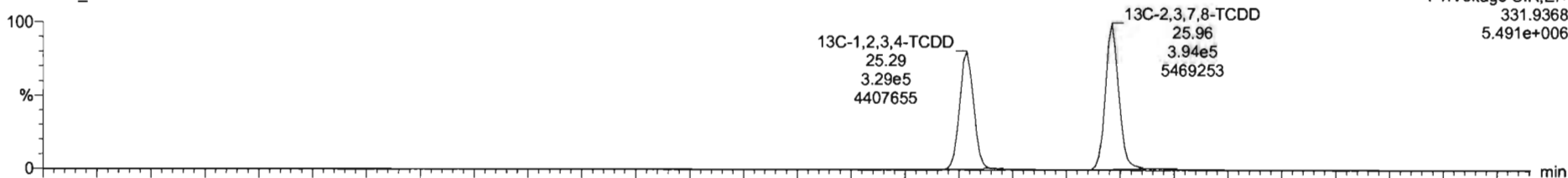
**37Cl-2,3,7,8-TCDD**

200506R2\_1

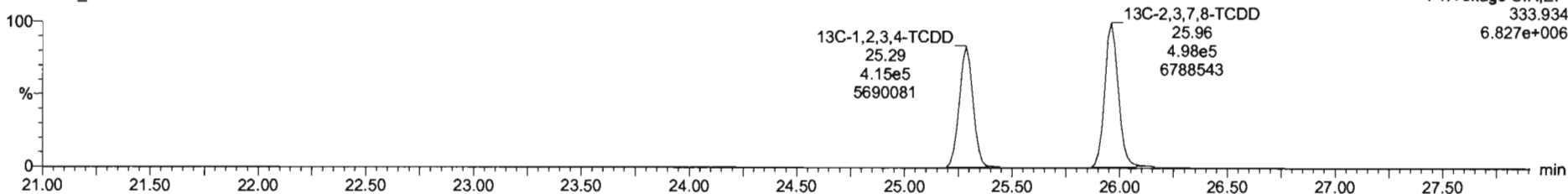


**13C-1,2,3,4-TCDD**

200506R2\_1



200506R2\_1



Dataset: Untitled

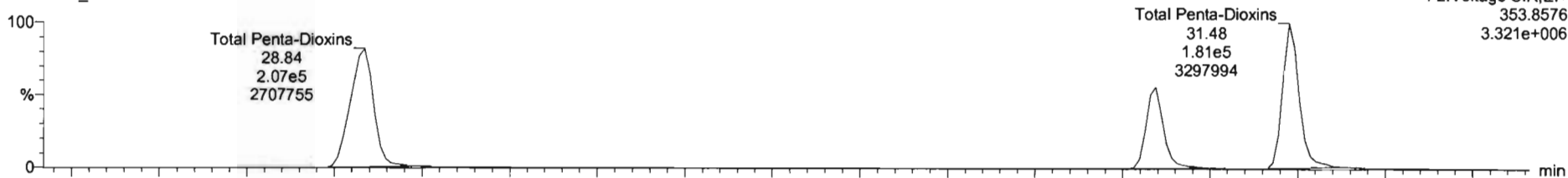
Last Altered: Wednesday, May 06, 2020 2:22:19 PM Pacific Daylight Time

Printed: Wednesday, May 06, 2020 2:24:15 PM Pacific Daylight Time

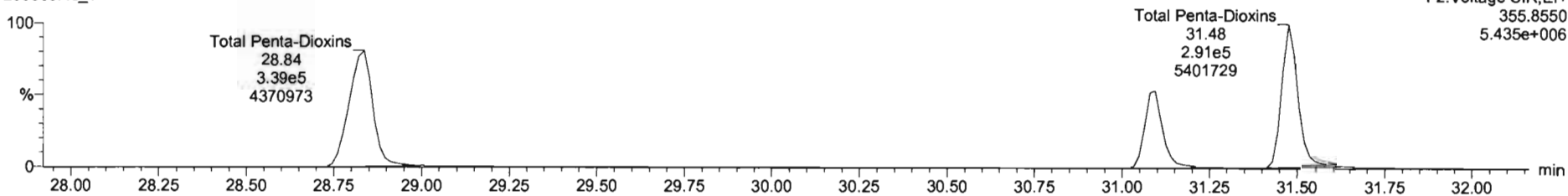
Name: 200506R2\_1, Date: 06-May-2020, Time: 13:35:58, ID: ST200506R2\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

**1,2,3,7,8-PeCDD**

200506R2\_1

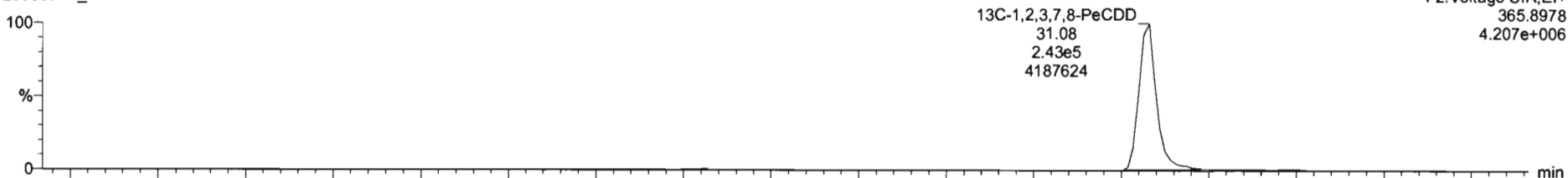


200506R2\_1

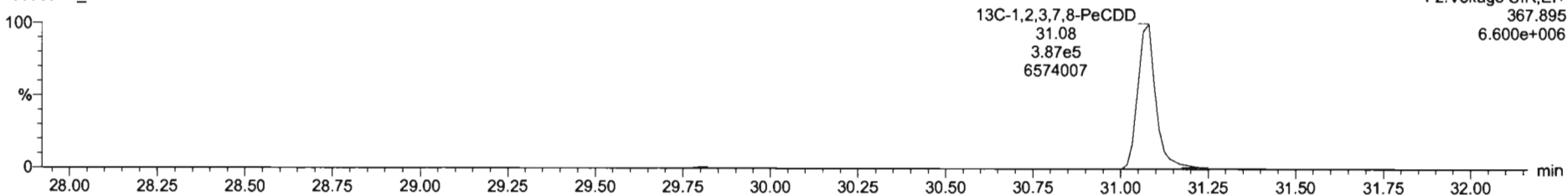


**13C-1,2,3,7,8-PeCDD**

200506R2\_1



200506R2\_1



Dataset: Untitled

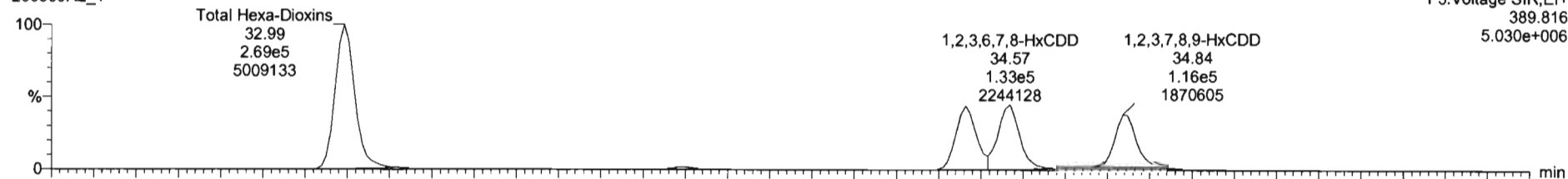
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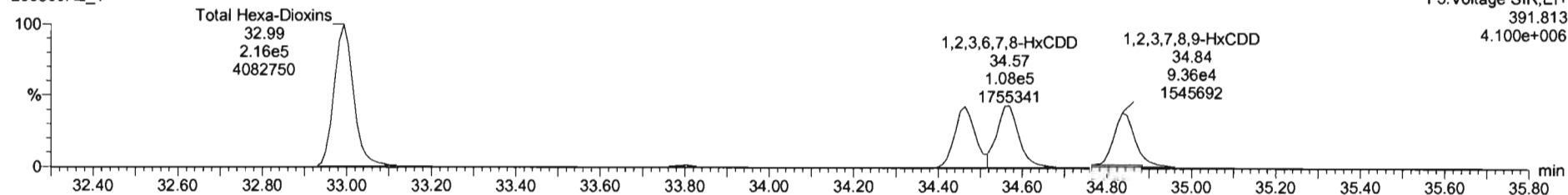
Name: 200506R2\_1, Date: 06-May-2020, Time: 13:35:58, ID: ST200506R2\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200506R2\_1

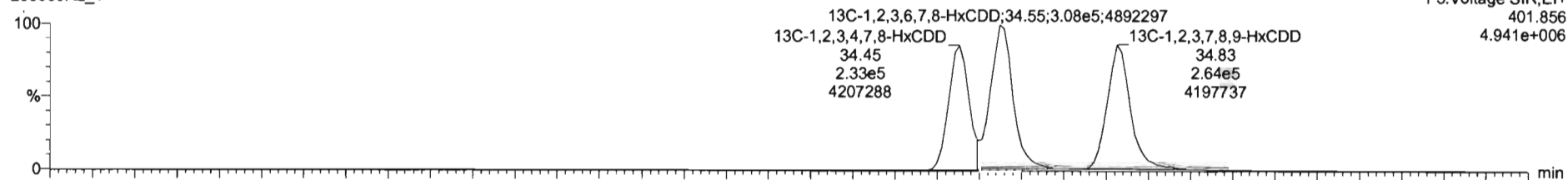


200506R2\_1

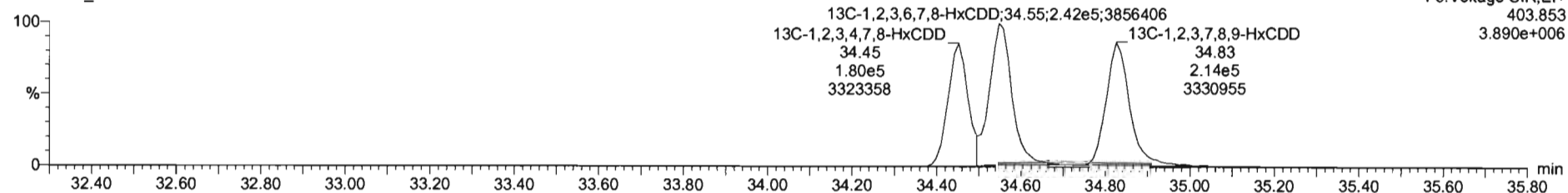


13C-1,2,3,4,7,8-HxCDD

200506R2\_1



200506R2\_1



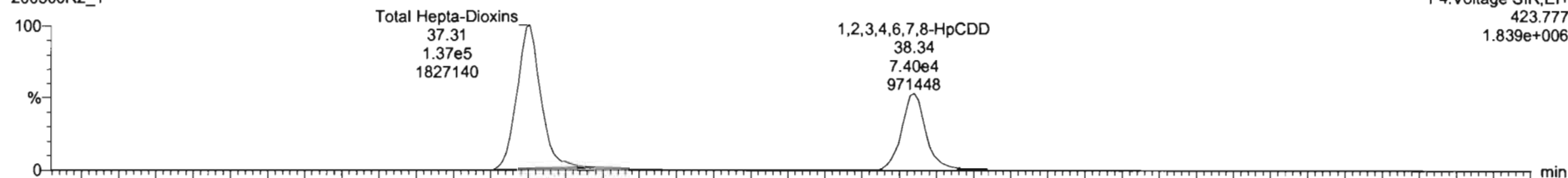
Dataset: Untitled

Last Altered: Wednesday, May 06, 2020 2:22:19 PM Pacific Daylight Time  
Printed: Wednesday, May 06, 2020 2:24:15 PM Pacific Daylight Time

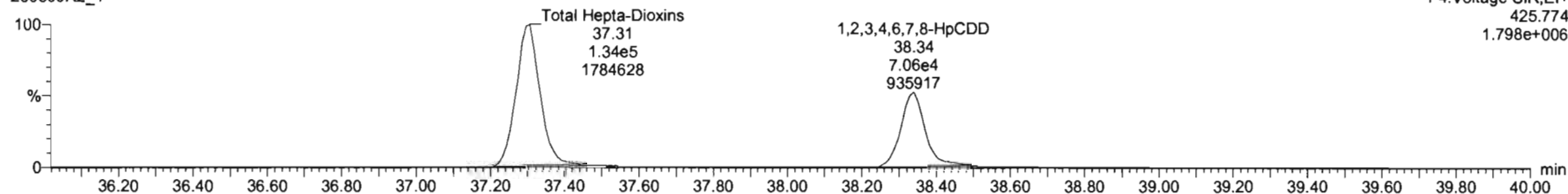
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1,2,3,4,6,7,8-HpCDD

200506R2\_1

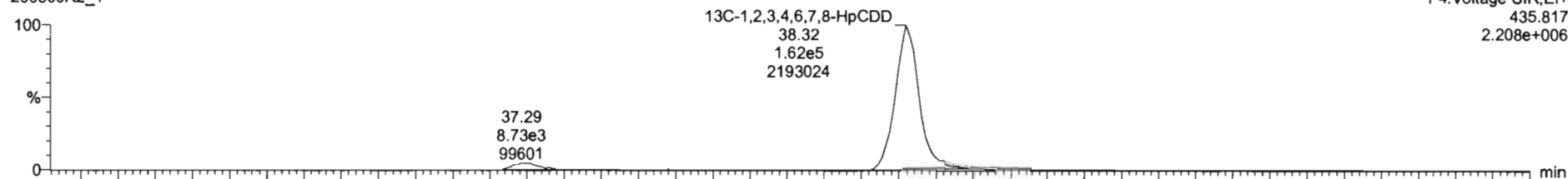


200506R2\_1

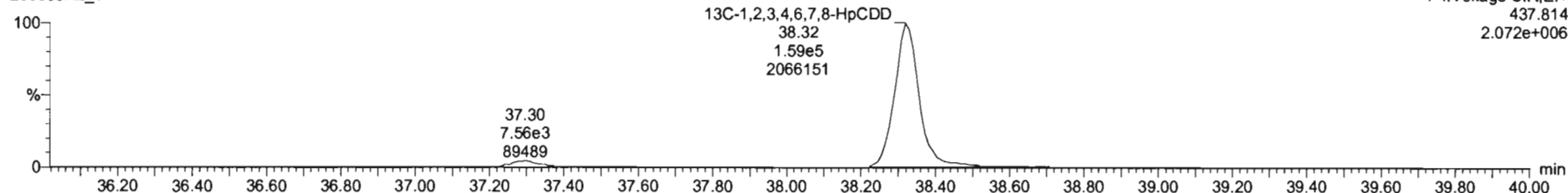


13C-1,2,3,4,6,7,8-HpCDD

200506R2\_1



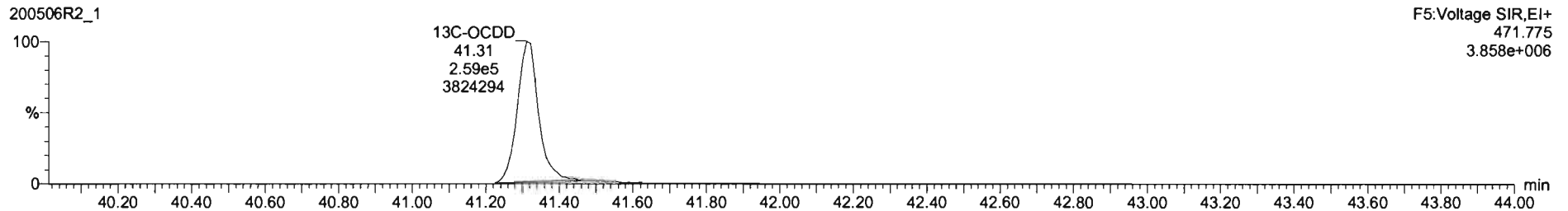
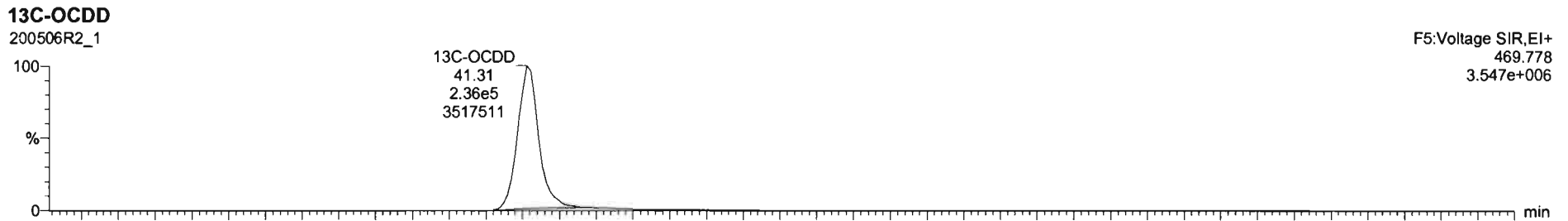
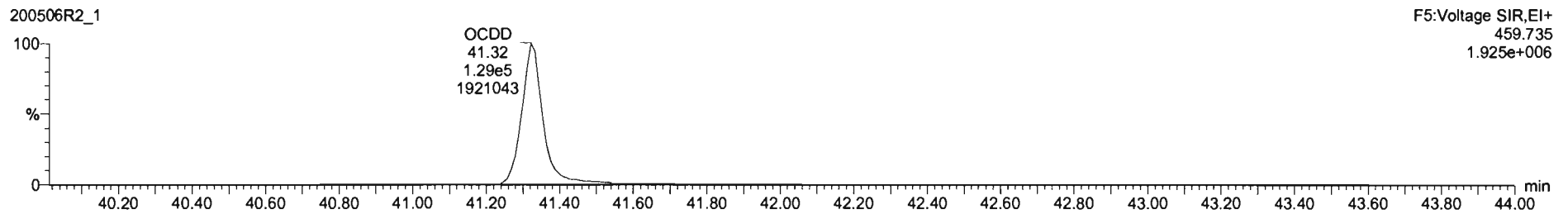
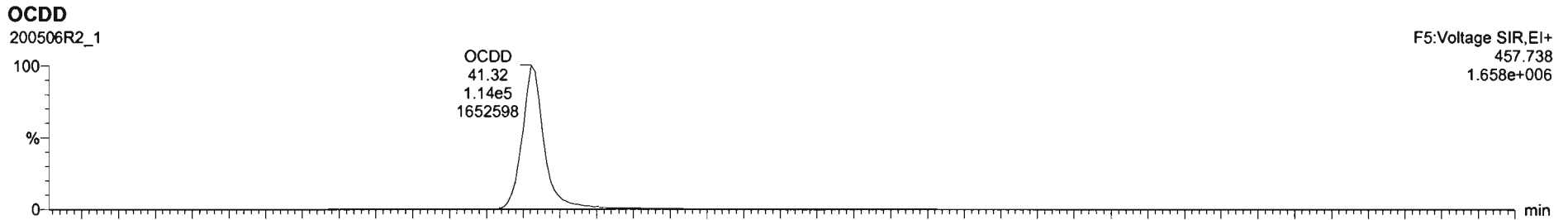
200506R2\_1



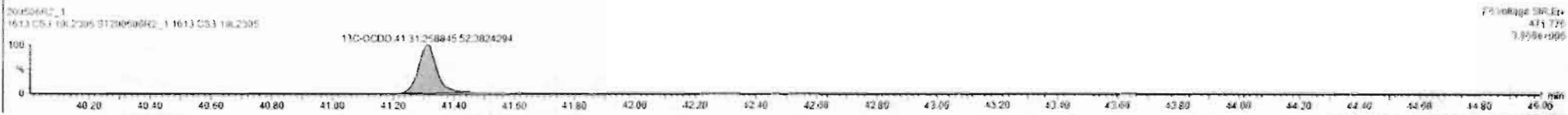
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Last Altered: Wednesday, May 06, 2020 2:22:19 PM Pacific Daylight Time  
Printed: Wednesday, May 06, 2020 2:24:15 PM Pacific Daylight Time

Name: 200506R2\_1, Date: 06-May-2020, Time: 13:35:58, ID: ST200506R2\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDF	8.94e4	0.76	NO	0.95	1.000	26.99	1.001	9.41	95.1	0.0747	9.51
2 1,2,3,7,8-PeCDD	2.79e5	0.61	NO	0.94	1.000	31.09	1.000	47.1	94.2	0.222	47.1
3 1,2,3,4,7,8-HxCDD	2.22e5	1.25	NO	1.06	1.000	34.46	1.000	50.5	101	0.237	50.5
4 1,2,3,6,7,8-HxCDD	2.41e5	1.24	NO	0.91	1.000	34.57	1.001	47.3	95.7	0.236	47.9
5 1,2,3,7,8,9-HxCDD	2.10e5	1.24	NO	0.91	1.000	34.84	1.000	45.0	96.3	0.271	48.0
6 1,2,3,4,6,7,8-HpCDD	1.48e5	1.05	NO	0.99	1.000	38.34	1.001	49.2	100	0.713	50.2
7 OCDD	2.42e5	0.27	NO	0.93	1.000	41.32	1.000	105	105	0.206	105
8 2,3,7,8-TCDF	9.30e4	0.76	NO	0.79	1.000	25.03	1.001	9.08	98.5	0.0834	9.88
9 1,2,3,7,8-PeCDF	4.31e5	1.56	NO	0.91	1.000	29.77	1.000	48.4	99.5	0.149	48.4
10 2,3,4,7,8-PeCDF	4.37e5	1.57	NO	0.97	1.000	30.77	1.000	49.9	97.8	0.122	46.9
11 1,2,3,4,7,8-HxCDF	2.74e5	1.21	NO	0.88	1.000	33.61	1.001	52.2	104	0.181	52.2
12 1,2,3,6,7,8-HxCDF	2.27e5	1.18	NO	0.87	1.000	33.73	1.001	53.1	106	0.172	53.1
13 2,3,4,6,7,8-HxCDF	2.87e5	1.22	NO	0.92	1.000	34.29	1.000	52.8	106	0.186	52.8
14 1,2,3,7,8,9-HxCDF	1.98e5	1.20	NO	0.86	1.000	35.19	1.001	52.4	105	0.145	52.4
15 1,2,3,4,6,7,8-HpCDF	2.07e5	1.01	NO	0.87	1.000	36.81	1.000	54.2	108	0.216	54.2
16 1,2,3,4,7,8,9-HpCDF	1.20e5	0.97	NO	1.01	1.000	38.93	1.000	53.9	108	0.255	53.9
17 OCDF	2.28e5	0.86	NO	0.80	1.000	41.50	1.006	107	107	0.162	107
18 13C-2,3,7,8-TCDD	6.92e5	0.79	NO	1.16	1.000	25.96	1.027	104	104	0.142	
19 13C-1,2,3,7,8-PeCDD	6.29e5	0.63	NO	0.85	1.000	31.06	1.229	99.9	99.5	0.161	
20 13C-1,2,3,4,7,8-HxCDD	4.13e5	1.29	NO	0.75	1.000	34.45	1.014	96.1	96.1	0.462	
21 13C-1,2,3,4,7,8-HpCDD	5.58e5	1.27	NO	0.96	1.000	34.55	1.017	99.7	99.7	0.312	



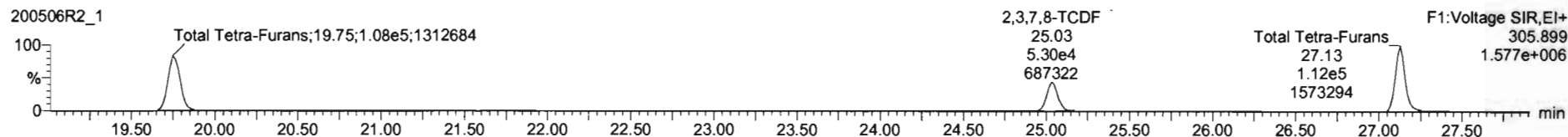
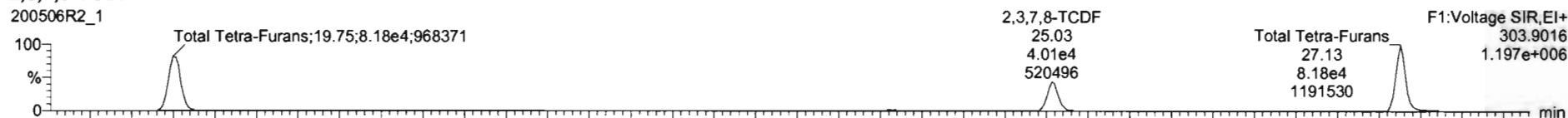


Dataset: Untitled

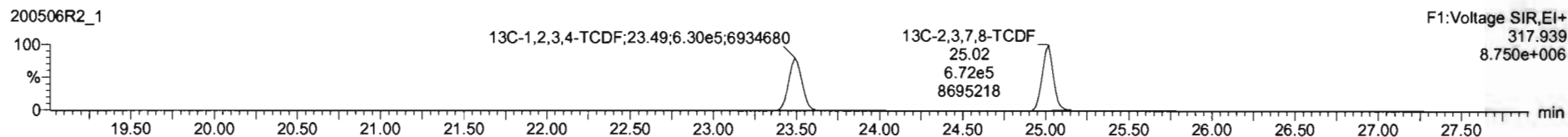
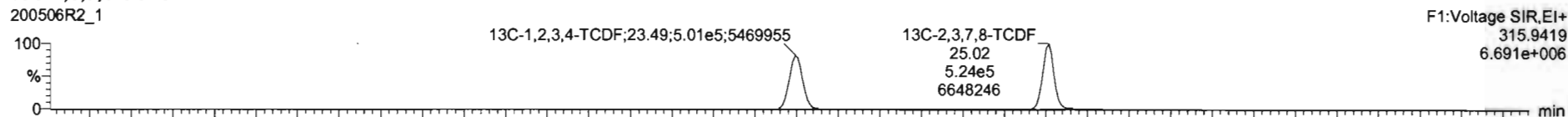
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Printed: Wednesday, May 06, 2020 2:24:15 PM Pacific Daylight Time

Name: 200506R2\_1, Date: 06-May-2020, Time: 13:35:58, ID: ST200506R2\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

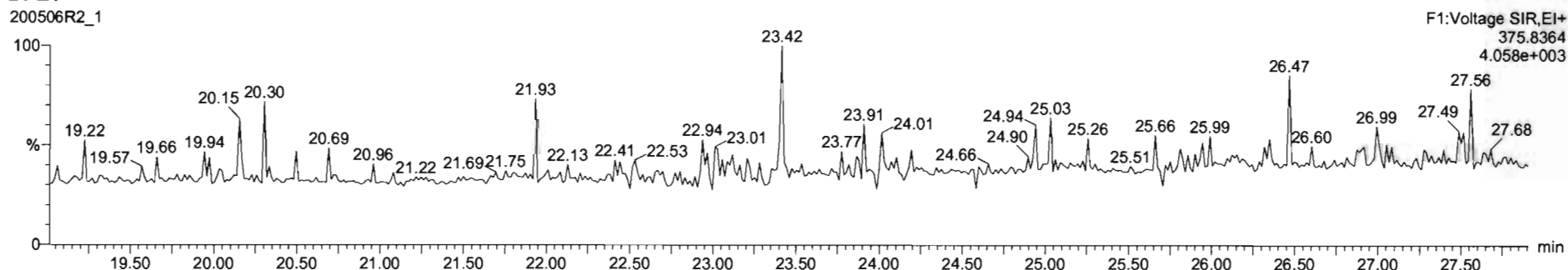
2,3,7,8-TCDF



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



DPE1



Dataset: Untitled

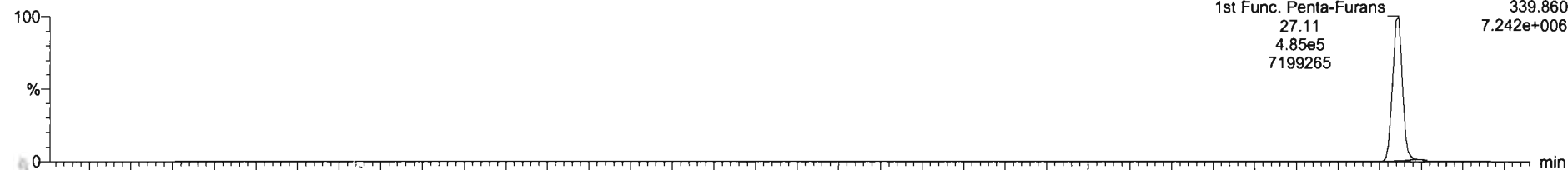
Last Altered: Wednesday, May 06, 2020 2:22:19 PM Pacific Daylight Time

Printed: Wednesday, May 06, 2020 2:24:15 PM Pacific Daylight Time

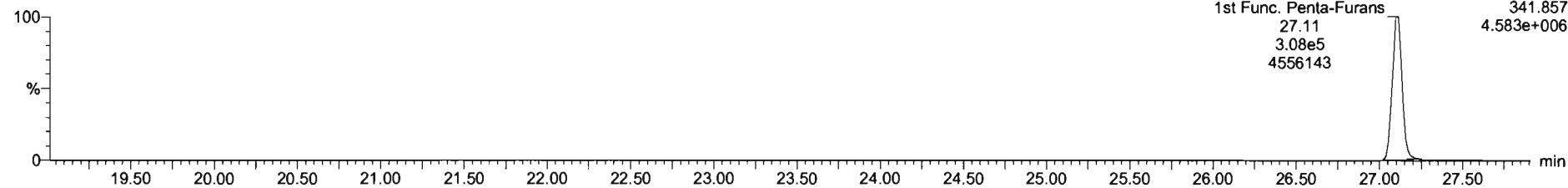
Name: 200506R2\_1, Date: 06-May-2020, Time: 13:35:58, ID: ST200506R2\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1st Func. Penta-Furans

200506R2\_1

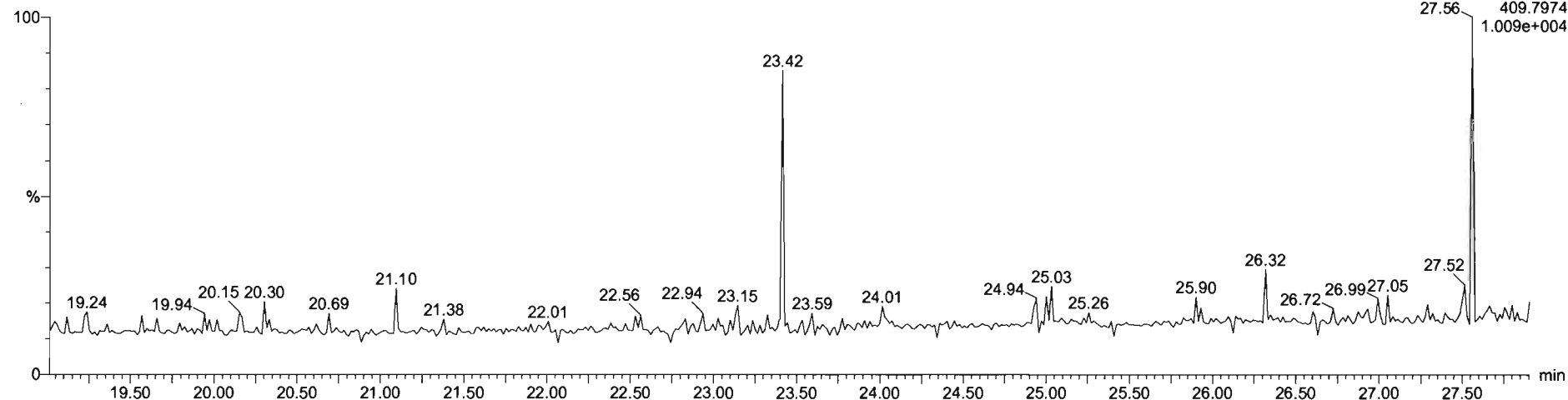


200506R2\_1



DPE6

200506R2\_1



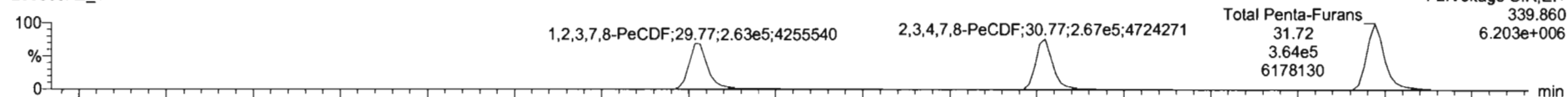
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Printed: Wednesday, May 06, 2020 2:24:15 PM Pacific Daylight Time

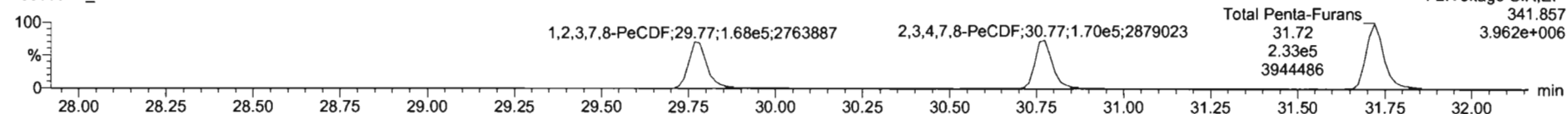
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**1,2,3,7,8-PeCDF**

200506R2\_1

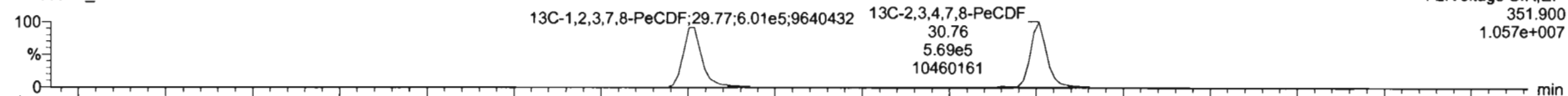


200506R2\_1

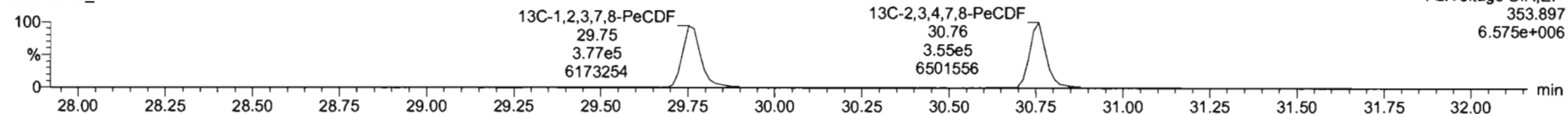


**13C-1,2,3,7,8-PeCDF**

200506R2\_1

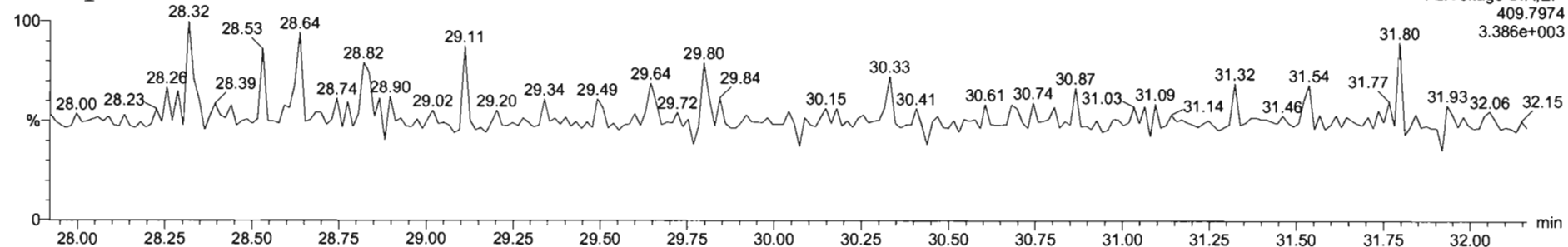


200506R2\_1



**DPE2**

200506R2\_1

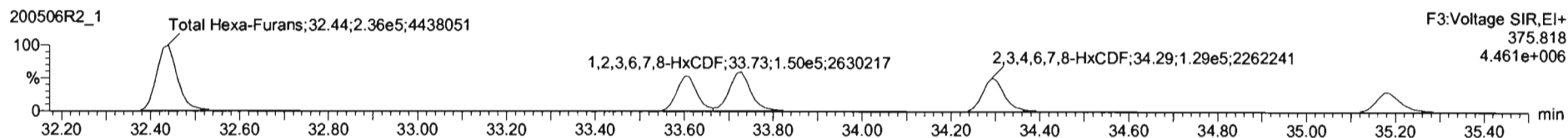
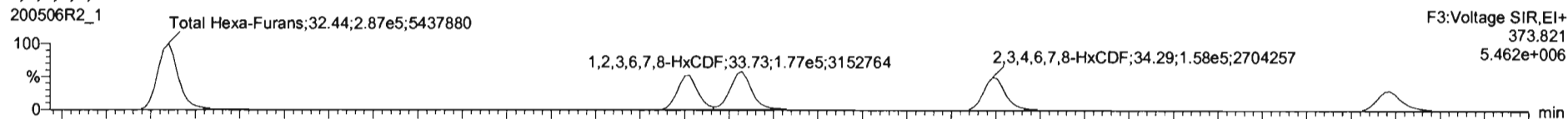


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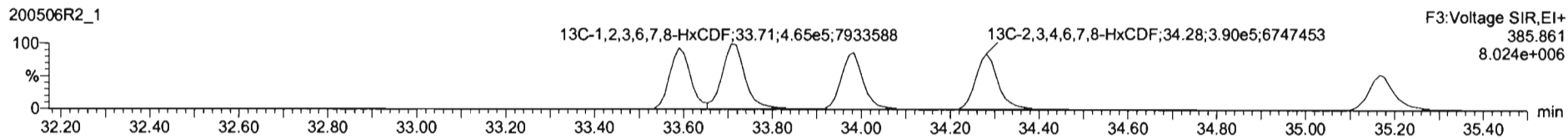
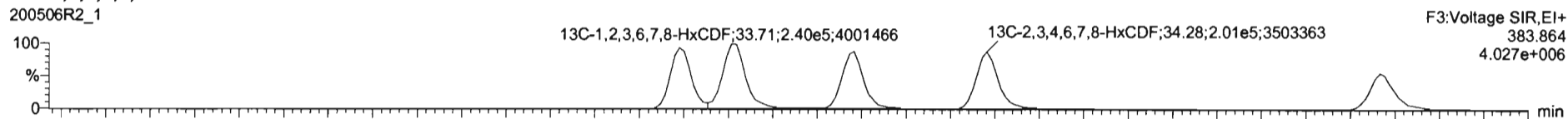
Last Altered: Wednesday, May 06, 2020 2:22:19 PM Pacific Daylight Time  
Printed: Wednesday, May 06, 2020 2:24:15 PM Pacific Daylight Time

Name: 200506R2\_1, Date: 06-May-2020, Time: 13:35:58, ID: ST200506R2\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

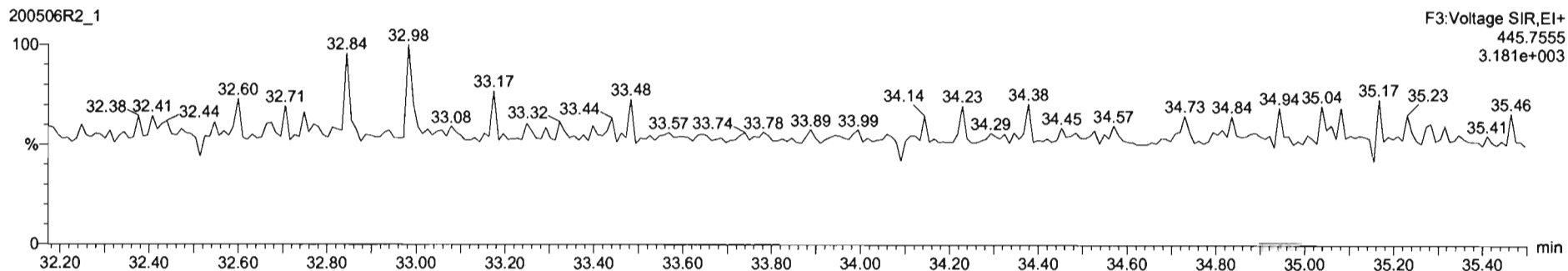
**1,2,3,4,7,8-HxCDF**



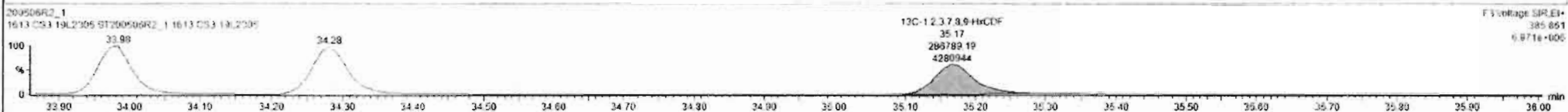
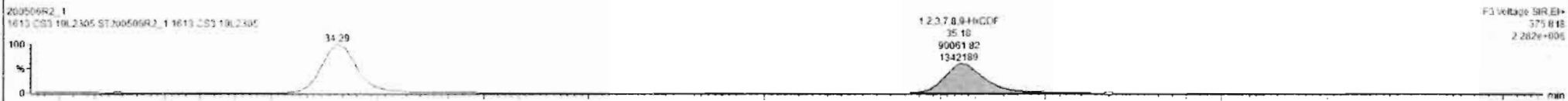
**13C-1,2,3,4,7,8-HxCDF**



**DPE3**



Name	Rinap	RA	nty	RRF	wVvol	RT	RRT	Conc.	%Rec.	DL	EMPC
1 2.3.7.8-TCDD	6.04e4	0.76	NO	0.95	1.000	29.99	1.001	9.51	95.1	0.0747	9.51
2 1.2.3.7.8-PeCDD	2.79e5	0.51	NO	0.54	1.000	31.09	1.000	47.1	94.2	0.222	47.1
3 1.2.3.4.7.8-HxCDD	2.22e5	1.25	NO	1.06	1.000	34.46	1.000	59.5	101	0.237	59.5
4 1.2.3.6.7.8-HxCDD	2.41e5	1.24	NO	0.91	1.000	34.57	1.001	47.9	95.7	0.236	47.9
5 1.2.3.7.8.9-HxCDD	2.10e5	1.24	NO	0.91	1.000	34.64	1.000	48.0	96.0	0.271	48.0
6 1.2.3.4.6.7.8-HpCDD	1.45e5	1.95	NO	0.90	1.000	36.34	1.001	50.2	100	0.312	50.2
7 OCDD	2.42e5	0.87	NO	0.93	1.000	41.32	1.000	105	105	0.206	105
8 2.3.7.8-TCDF	9.30e4	0.76	NO	0.79	1.000	29.02	1.001	6.66	58.6	0.0834	9.68
9 1.2.3.7.8-PeCDF	4.31e5	1.56	NO	0.91	1.000	29.77	1.000	48.4	90.5	0.140	48.4
10 2.3.4.7.8-PeCDF	4.37e5	1.57	NO	0.97	1.000	30.77	1.000	48.9	97.8	0.122	48.9
11 1.2.3.4.7.8-HxCDF	2.74e5	1.21	NO	0.88	1.000	33.61	1.001	52.2	104	0.161	52.2
12 1.2.3.6.7.8-HxCDF	2.27e5	1.18	NO	0.87	1.000	33.73	1.001	53.1	106	0.172	53.1
13 2.3.4.6.7.8-HxCDF	2.87e5	1.22	NO	0.92	1.000	34.29	1.000	52.8	106	0.180	52.8
14 2.3.7.8.9-HxCDF	1.96e5	1.20	NO	0.66	1.000	35.19	1.001	52.8	105	0.311	52.0
15 1.2.3.4.6.7.8-HpCDF	2.07e5	1.01	NO	0.87	1.000	36.91	1.000	54.2	108	0.216	54.2
16 1.2.3.4.7.8.9-HpCDF	1.20e5	0.97	NO	1.01	1.000	38.93	1.000	53.9	108	0.258	53.9
17 OCDF	2.28e5	0.86	NO	0.88	1.000	41.58	1.000	107	107	0.182	107
18 13C-2.3.7.8-TCDD	6.52e5	0.79	NO	1.16	1.000	29.96	1.017	104	104	0.142	
19 13C-1.2.3.7.8-PeCDD	6.26e5	0.63	NO	0.65	1.000	31.08	1.225	99.9	99.5	0.161	
20 13C-1.2.3.4.7.8-HxCDD	4.13e5	1.29	NO	0.75	1.000	34.48	1.014	96.1	96.1	0.402	
21 13C-1.2.3.6.7.8-HxCDD	5.58e5	1.27	NO	0.96	1.000	34.55	1.017	99.7	99.7	0.313	



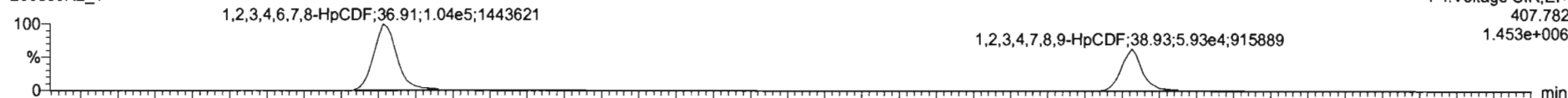
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Last Altered: Wednesday, May 06, 2020 2:22:19 PM Pacific Daylight Time  
Printed: Wednesday, May 06, 2020 2:24:15 PM Pacific Daylight Time

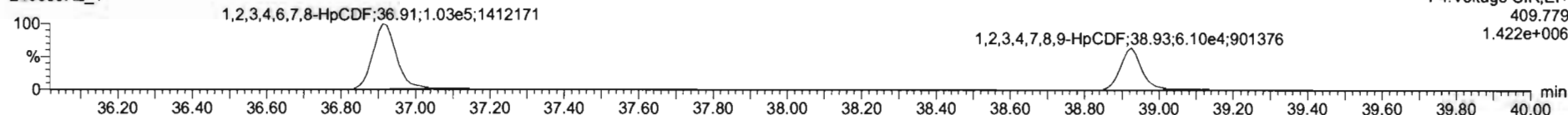
Name: 200506R2\_1, Date: 06-May-2020, Time: 13:35:58, ID: ST200506R2\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200506R2\_1



2: 0506R2\_1

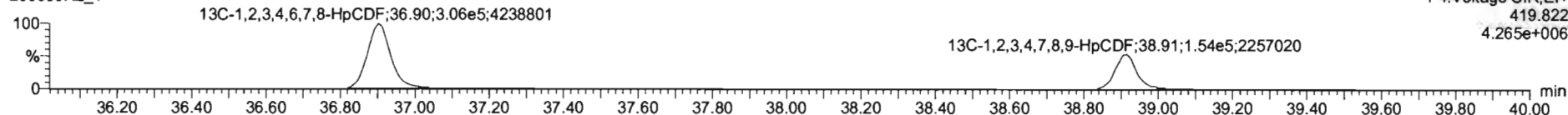


**13C-1,2,3,4,6,7,8-HpCDF**

200506R2\_1

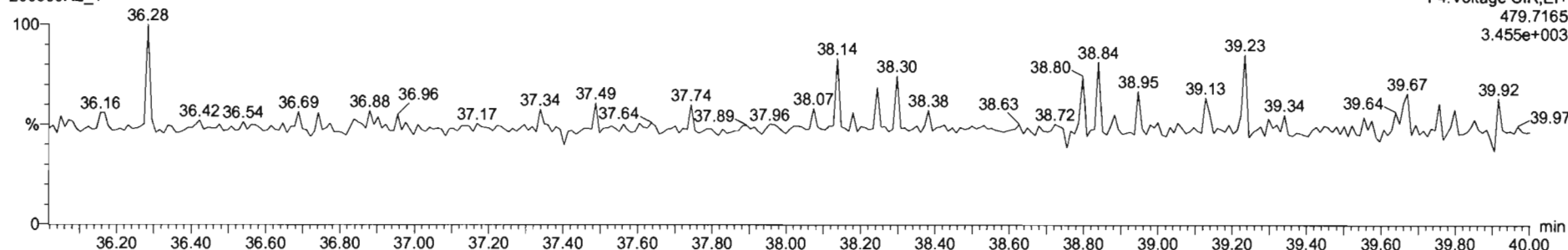


200506R2\_1



**DPE4**

200506R2\_1

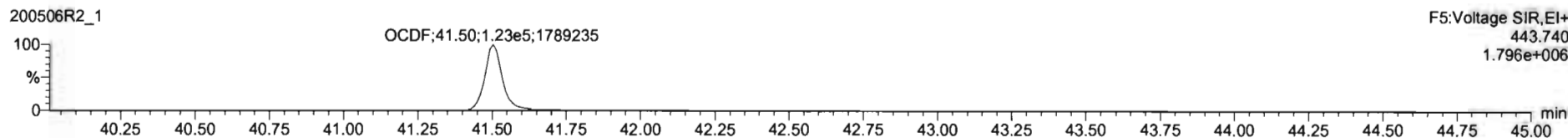
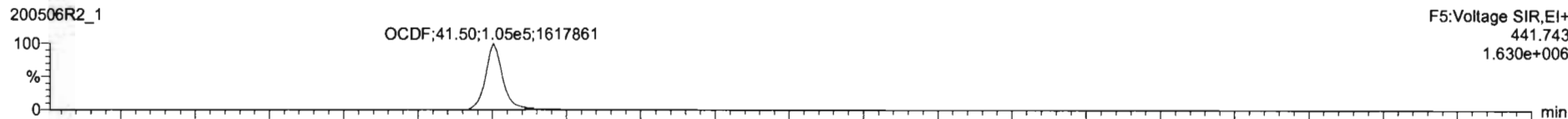


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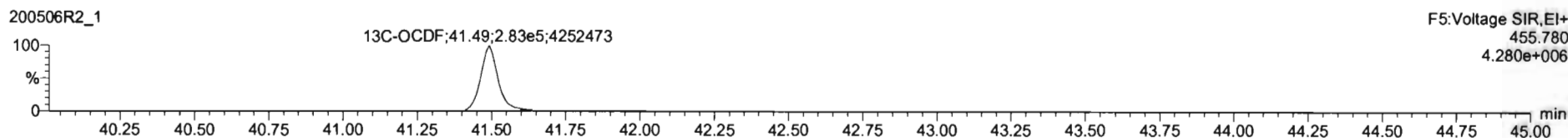
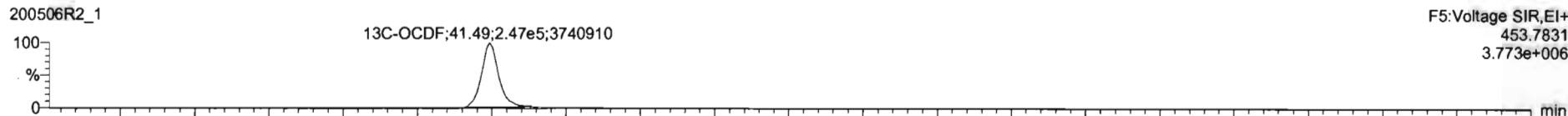
Last Altered: Wednesday, May 06, 2020 2:22:19 PM Pacific Daylight Time  
Printed: Wednesday, May 06, 2020 2:24:15 PM Pacific Daylight Time

Name: 200506R2\_1, Date: 06-May-2020, Time: 13:35:58, ID: ST200506R2\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

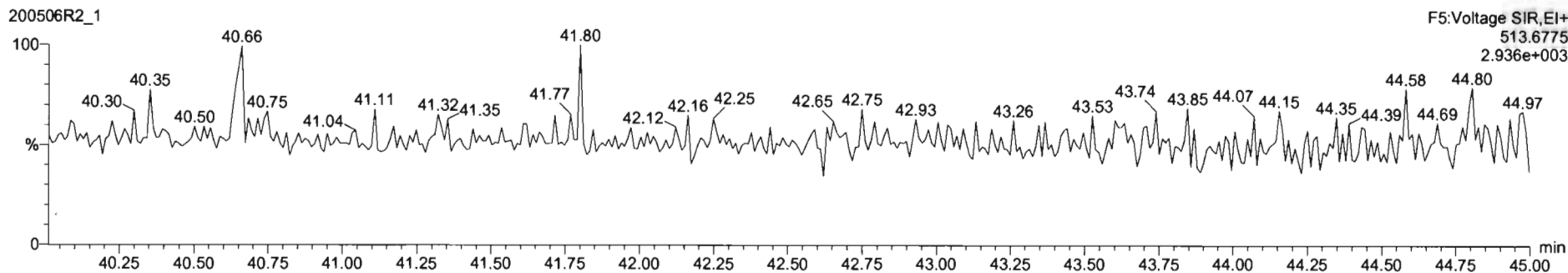
**OCDF**



**13C-OCDF**



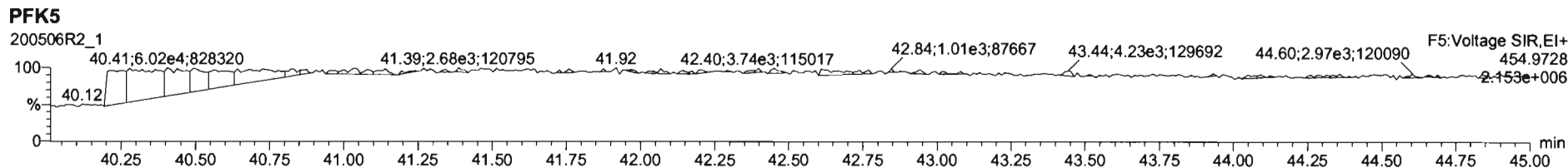
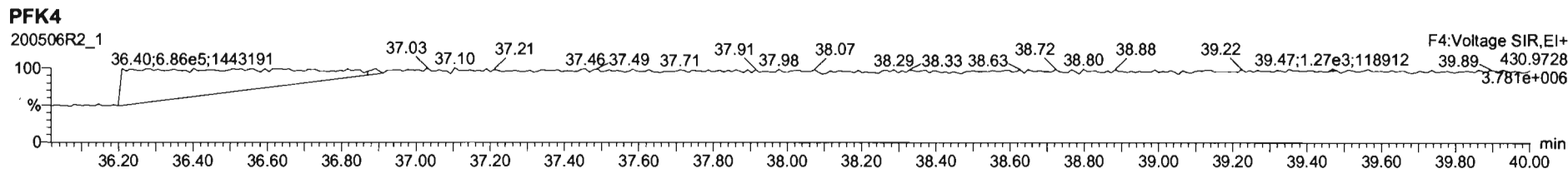
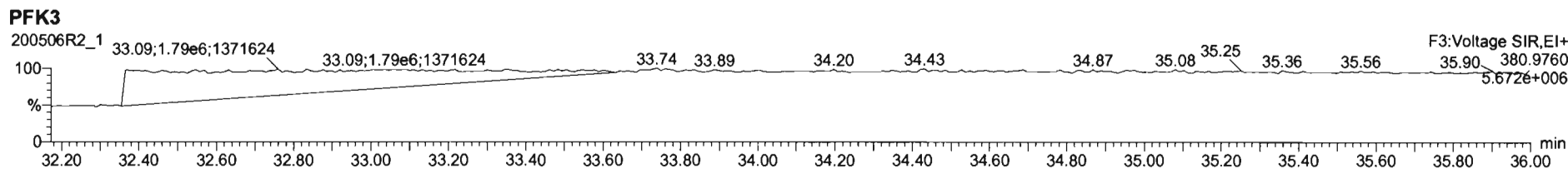
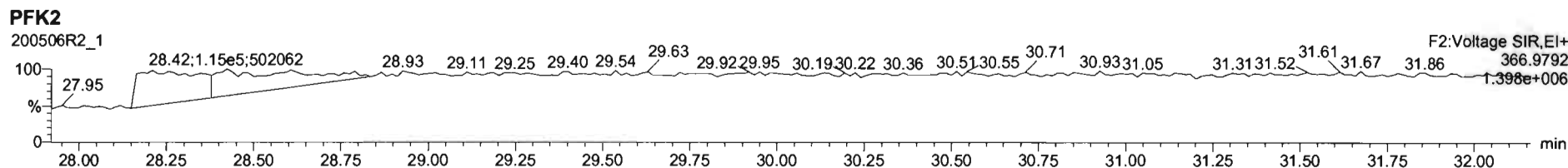
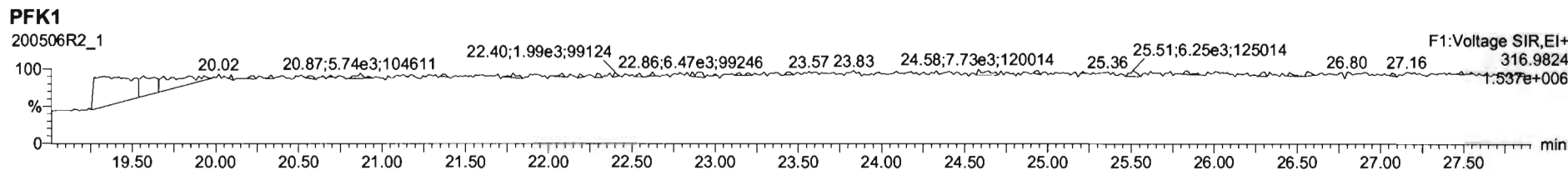
**DPE5**



Dataset: Untitled

Last Altered: Wednesday, May 06, 2020 2:22:19 PM Pacific Daylight Time  
Printed: Wednesday, May 06, 2020 2:24:15 PM Pacific Daylight Time

Name: 200506R2\_1, Date: 06-May-2020, Time: 13:35:58, ID: ST200506R2\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

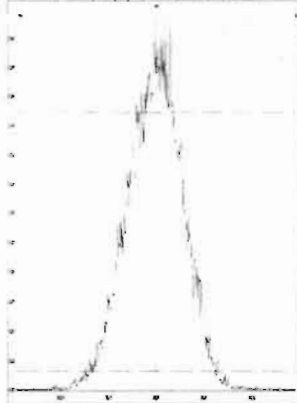




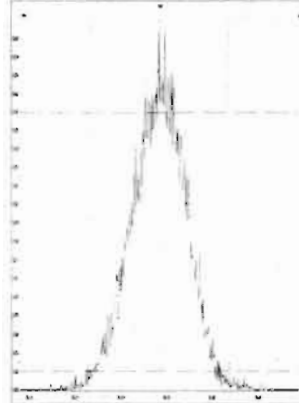
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, May 07, 2020 07:14:01 Pacific Daylight Time

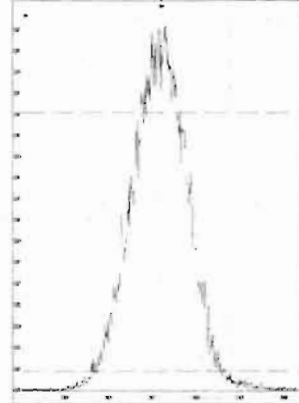
M 292.9824 R 11061



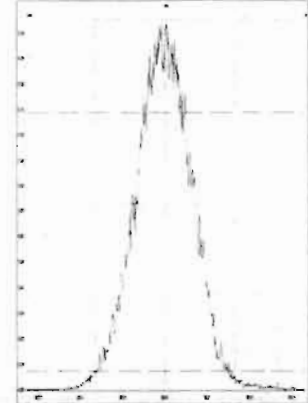
M 304.9824 R 11360



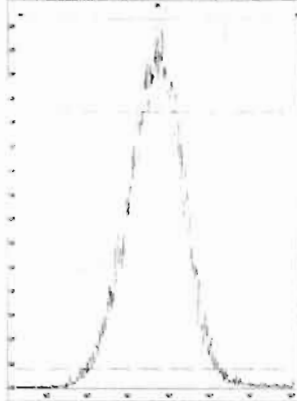
M 318.9792 R 11211



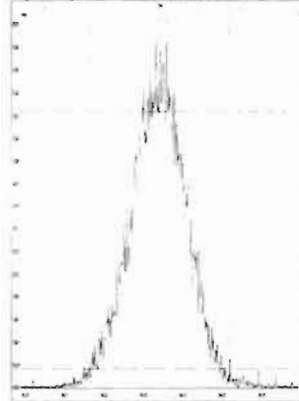
M 330.9792 R 10591



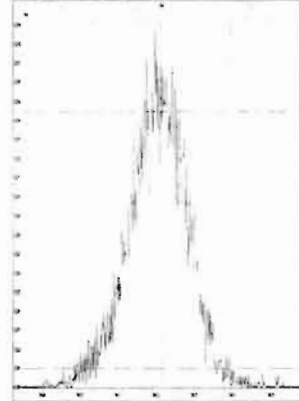
M 342.9792 R 10725



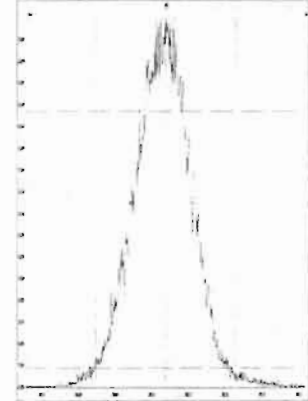
M 354.9792 R 10592



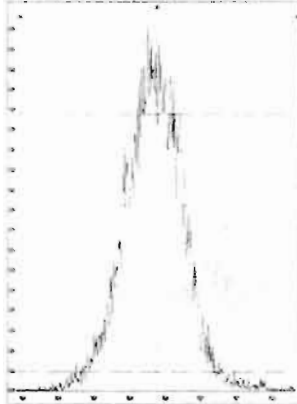
M 366.9792 R 11063



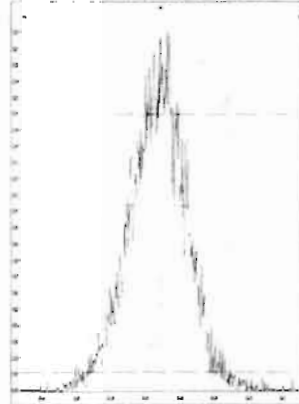
M 380.9760 R 10287



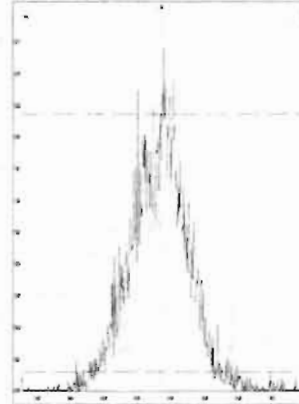
M 392.9760 R 10595



M 404.9760 R 10246



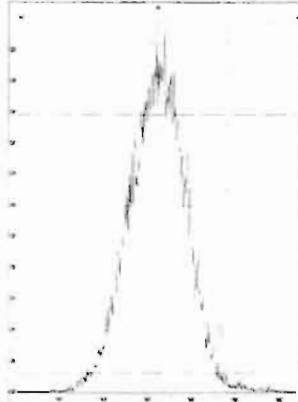
M 416.9760 R 10244



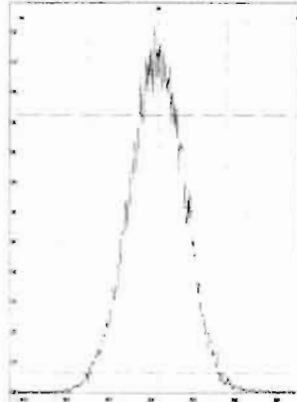
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Thursday, May 07, 2020 07:15:21 Pacific Daylight Time

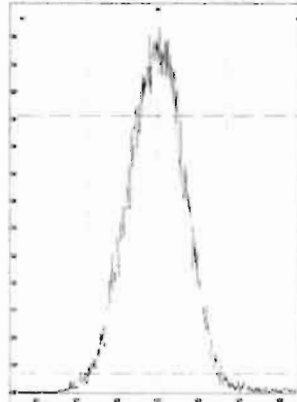
M 318.9792 R 11212



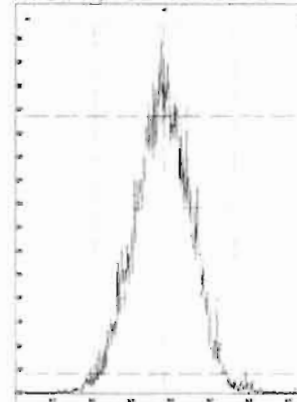
M 330.9792 R 10921



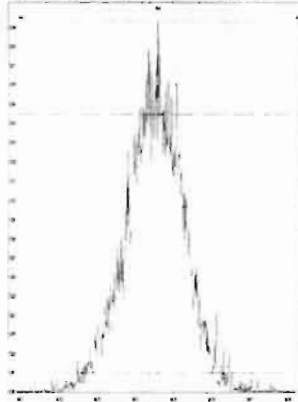
M 342.9792 R 10966



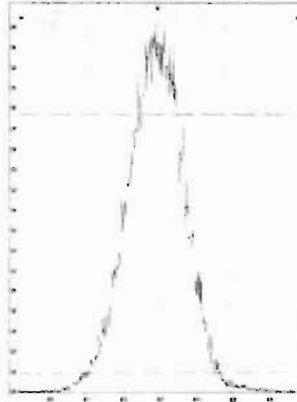
M 354.9792 R 10916



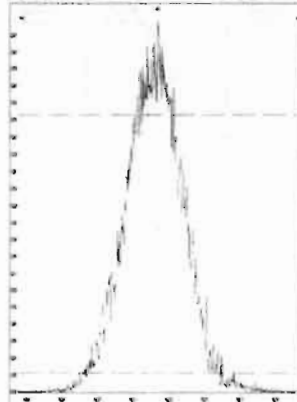
M 366.9792 R 10590



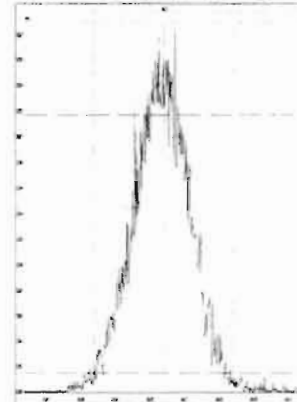
M 380.9760 R 11111



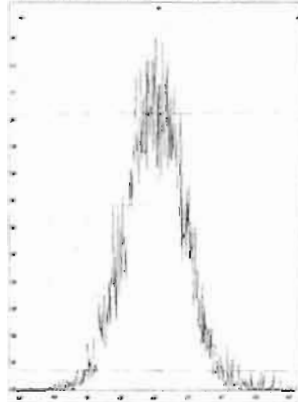
M 392.9760 R 10502



M 404.9760 R 10965



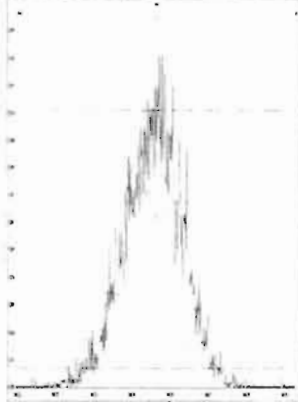
M 416.9760 R 11736



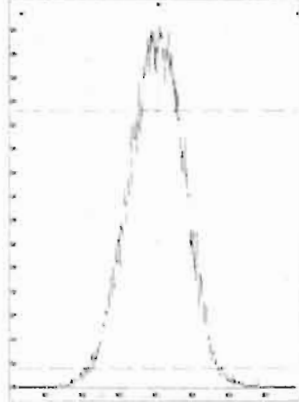
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Thursday, May 07, 2020 07:15:55 Pacific Daylight Time

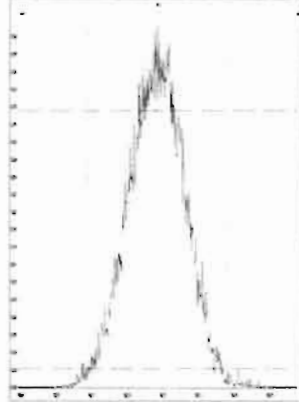
M 366.9792 R 11310



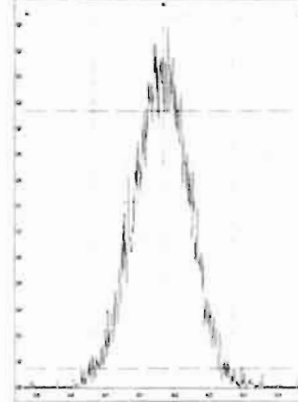
M 380.9760 R 10965



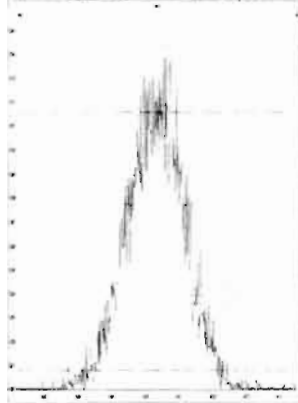
M 392.9760 R 11466



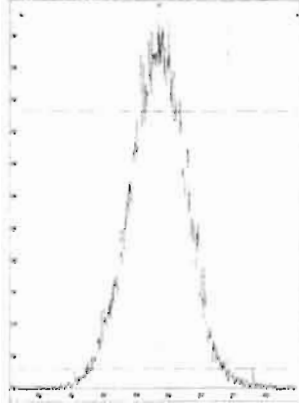
M 404.9760 R 11416



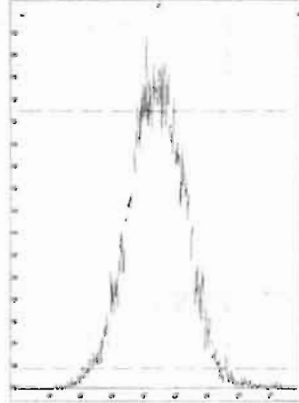
M 416.9760 R 11467



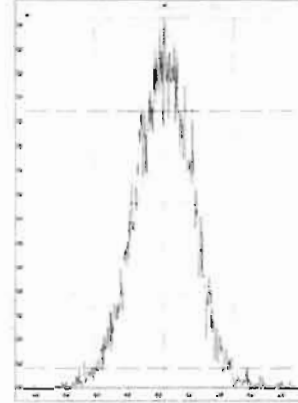
M 430.9728 R 10502



M 442.9728 R 10684



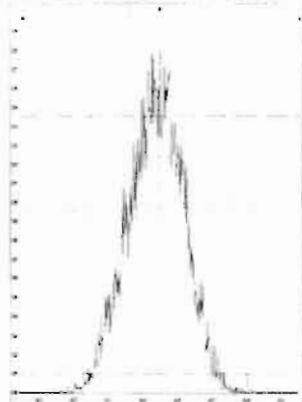
M 454.9728 R 11572



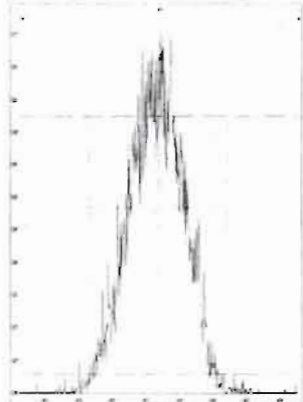
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Thursday, May 07, 2020 07:16:10 Pacific Daylight Time

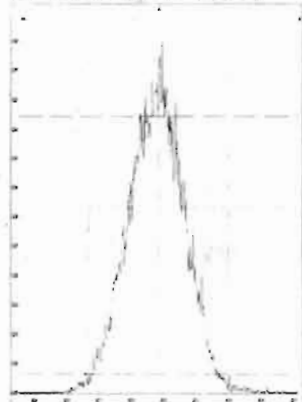
M 404.9760 R 11626



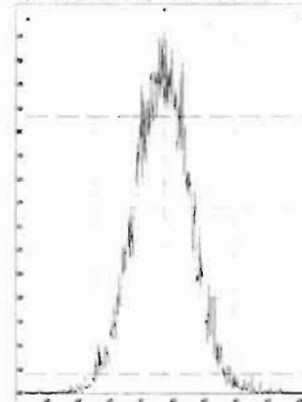
M 416.9760 R 11521



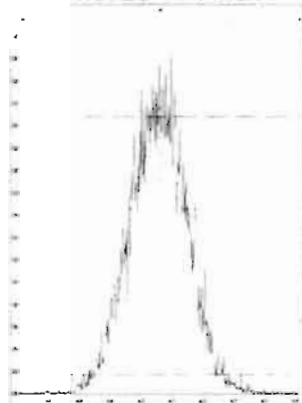
M 430.9728 R 11210



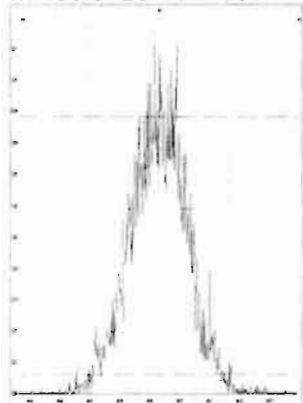
M 442.9728 R 11014



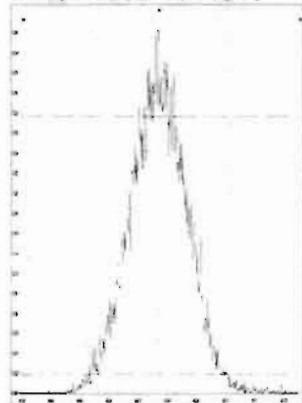
M 454.9728 R 11520



M 466.9728 R 11680



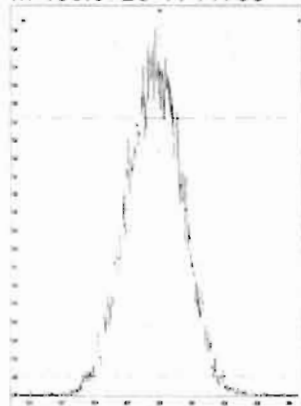
M 480.9696 R 11013



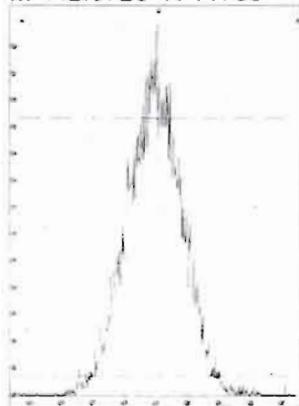
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Thursday, May 07, 2020 07:16:27 Pacific Daylight Time

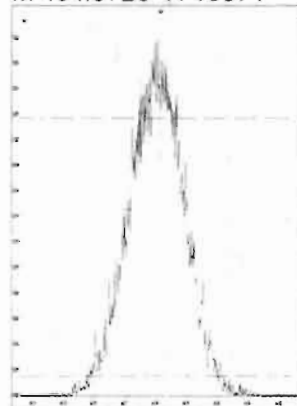
M 430.9728 R 11738



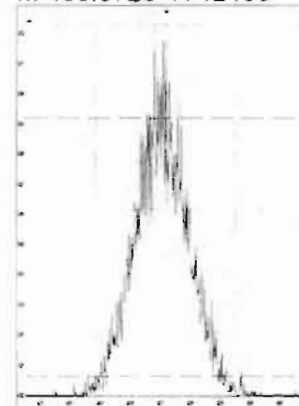
M 442.9728 R 11736



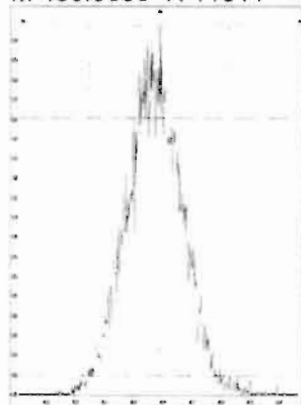
M 454.9728 R 10871



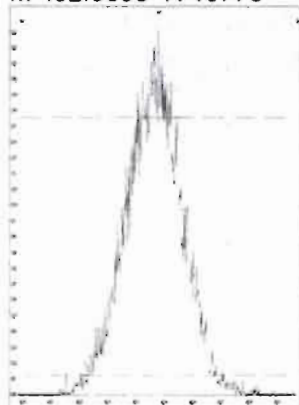
M 466.9728 R 12195



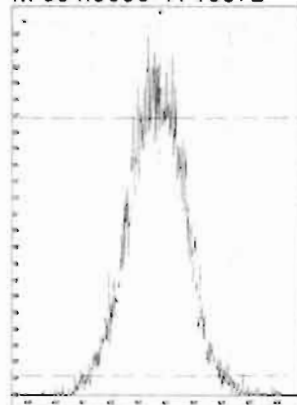
M 480.9696 R 11311



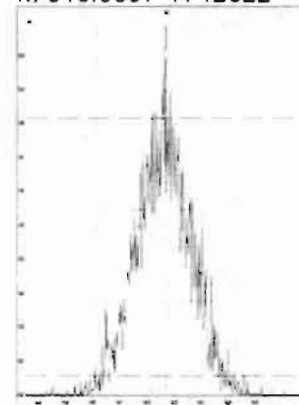
M 492.9696 R 10773



M 504.9696 R 10872



M 516.9697 R 12822



# HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

**Beg. Calibration ID:** ST200518R1-1

**Reviewed By:** CT 05/19/2020  
*Initials & Date*

**End Calibration ID:** ST200518R2-1

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

	<u>Beg.</u>	<u>End</u>
<b>Mass resolution ≥</b>	<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		
<b>Intergrated peaks display correctly?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>GC Break &lt;20%</b>	<input type="checkbox"/> NA	
<b><u>8280 CS1 End Standard:</u></b>		
- Ratios within limits, S/N <2.5:1, CS1 within 12 hours	<input type="checkbox"/> NA	

**Comments:**

Dataset: U:\VG12.PRO\Results\200518R1\200518R1-1.qld

Last Altered: Monday, May 18, 2020 09:19:11 Pacific Daylight Time

Printed: Monday, May 18, 2020 09:19:47 Pacific Daylight Time

*GRB 05/18/2020*

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

*CT 05/19/2020*

Name: 200518R1\_1, Date: 18-May-2020, Time: 08:21:51, ID: ST200518R1\_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	1.39e5	1.46e6	0.79	NO	0.947	26.10	26.09	NO	1.001	1.001	10.050	100	NO
2	2 1,2,3,7,8-PeCDD	4.65e5	1.02e6	0.60	NO	0.942	31.16	31.17	NO	1.001	1.001	48.178	96.4	NO
3	3 1,2,3,4,7,8-HxCDD	3.36e5	6.67e5	1.24	NO	1.06	34.53	34.53	NO	1.000	1.000	47.402	94.8	NO
4	4 1,2,3,6,7,8-HxCDD	4.33e5	1.03e6	1.24	NO	0.915	34.62	34.63	NO	1.000	1.000	45.831	91.7	NO
5	5 1,2,3,7,8,9-HxCDD	3.32e5	7.75e5	1.24	NO	0.915	34.91	34.91	NO	1.000	1.000	46.804	93.6	NO
6	6 1,2,3,4,6,7,8-HpCDD	2.34e5	5.33e5	1.01	NO	0.898	38.40	38.40	NO	1.000	1.000	48.873	97.7	NO
7	7 OCDD	4.69e5	1.02e6	0.87	NO	0.933	41.38	41.39	NO	1.000	1.000	98.163	98.2	NO
8	8 2,3,7,8-TCDF	1.44e5	1.89e6	0.77	NO	0.787	25.16	25.17	NO	1.001	1.001	9.6804	96.8	NO
9	9 1,2,3,7,8-PeCDF	6.93e5	1.57e6	1.58	NO	0.910	29.86	29.86	NO	1.001	1.001	48.491	97.0	NO
10	10 2,3,4,7,8-PeCDF	6.86e5	1.48e6	1.56	NO	0.966	30.87	30.85	NO	1.001	1.000	48.061	96.1	NO
11	11 1,2,3,4,7,8-HxCDF	4.13e5	8.92e5	1.21	NO	0.878	33.65	33.67	NO	1.000	1.001	52.708	105	NO
12	12 1,2,3,6,7,8-HxCDF	5.46e5	1.15e6	1.23	NO	0.874	33.78	33.79	NO	1.000	1.001	54.122	108	NO
13	13 2,3,4,6,7,8-HxCDF	4.82e5	9.97e5	1.23	NO	0.922	34.39	34.37	NO	1.001	1.000	52.432	105	NO
14	14 1,2,3,7,8,9-HxCDF	3.28e5	7.49e5	1.17	NO	0.864	35.24	35.26	NO	1.000	1.001	50.707	101	NO
15	15 1,2,3,4,6,7,8-HpCDF	3.27e5	6.97e5	1.01	NO	0.871	37.01	36.99	NO	1.001	1.000	53.849	108	NO
16	16 1,2,3,4,7,8,9-HpCDF	2.37e5	4.49e5	1.01	NO	1.01	38.98	38.99	NO	1.000	1.000	52.148	104	NO
17	17 OCDF	5.46e5	1.28e6	0.85	NO	0.802	41.56	41.57	NO	1.000	1.000	106.52	107	NO
18	18 13C-2,3,7,8-TCDD	1.46e6	1.27e6	0.78	NO	1.16	26.06	26.07	NO	1.026	1.027	99.320	99.3	NO
19	19 13C-1,2,3,7,8-PeCDD	1.02e6	1.27e6	0.63	NO	0.847	31.16	31.14	NO	1.227	1.226	95.188	95.2	NO
20	20 13C-1,2,3,4,7,8-HxCDD	6.67e5	9.89e5	1.29	NO	0.750	34.53	34.52	NO	1.014	1.014	89.892	89.9	NO
21	21 13C-1,2,3,6,7,8-HxCDD	1.03e6	9.89e5	1.27	NO	0.963	34.64	34.62	NO	1.017	1.017	108.57	109	NO
22	22 13C-1,2,3,7,8,9-HxCDD	7.75e5	9.89e5	1.27	NO	0.838	34.91	34.90	NO	1.025	1.025	93.550	93.5	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.33e5	9.89e5	1.04	NO	0.641	38.40	38.39	NO	1.128	1.128	84.080	84.1	NO
24	24 13C-OCDD	1.02e6	9.89e5	0.89	NO	0.586	41.40	41.38	NO	1.216	1.215	176.46	88.2	NO
25	25 13C-2,3,7,8-TCDF	1.89e6	1.84e6	0.78	NO	1.03	25.12	25.14	NO	0.989	0.990	99.358	99.4	NO
26	26 13C-1,2,3,7,8-PeCDF	1.57e6	1.84e6	1.58	NO	0.845	29.85	29.84	NO	1.176	1.175	100.86	101	NO
27	27 13C-2,3,4,7,8-PeCDF	1.48e6	1.84e6	1.59	NO	0.814	30.84	30.83	NO	1.215	1.214	98.472	98.5	NO
28	28 13C-1,2,3,4,7,8-HxCDF	8.92e5	9.89e5	0.51	NO	1.00	33.67	33.65	NO	0.989	0.988	89.730	89.7	NO
29	29 13C-1,2,3,6,7,8-HxCDF	1.15e6	9.89e5	0.51	NO	1.14	33.79	33.77	NO	0.992	0.992	102.74	103	NO
30	30 13C-2,3,4,6,7,8-HxCDF	9.97e5	9.89e5	0.50	NO	1.02	34.36	34.36	NO	1.009	1.009	98.592	98.6	NO
31	31 13C-1,2,3,7,8,9-HxCDF	7.49e5	9.89e5	0.50	NO	0.845	35.25	35.24	NO	1.035	1.035	89.680	89.7	NO

Dataset: U:\VG12.PRO\Results\200518R1\200518R1-1.qld

Last Altered: Monday, May 18, 2020 09:19:11 Pacific Daylight Time

Printed: Monday, May 18, 2020 09:19:47 Pacific Daylight Time

Name: 200518R1\_1, Date: 18-May-2020, Time: 08:21:51, ID: ST200518R1\_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	6.97e5	9.89e5	0.44	NO	0.771	36.98	36.98	NO	1.086	1.086	91.420	91.4	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.49e5	9.89e5	0.42	NO	0.482	39.00	38.98	NO	1.145	1.145	94.222	94.2	NO
34	34 13C-OCDF	1.28e6	9.89e5	0.89	NO	0.669	41.57	41.56	NO	1.221	1.221	193.32	96.7	NO
35	35 37Cl-2,3,7,8-TCDD	1.34e5	1.27e6			1.10	26.09	26.09	NO	1.028	1.028	9.5796	95.8	NO
36	36 13C-1,2,3,4-TCDD	1.27e6	1.27e6	0.80	NO	1.00	25.35	25.39	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.84e6	1.84e6	0.80	NO	1.00	23.56	23.61	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	9.89e5	9.89e5	0.52	NO	1.00	34.00	34.05	NO	1.000	1.000	100.00	100	YES <input checked="" type="checkbox"/>



Dataset: Untitled

Last Altered: Monday, May 18, 2020 15:38:38 Pacific Daylight Time

Printed: Monday, May 18, 2020 15:38:41 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

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

	Name	ID	Acq.Date	Acq.Time
1	200518R1_1	ST200518R1_1 1613 CS3 19L2305	18-May-20	08:21:51
2	200518R1_2	B0E0108-BS1 OPR 1	18-May-20	09:08:55
3	200518R1_3	B0E0066-BS1 OPR 10	18-May-20	09:56:30
4	200518R1_4	SOLVENT BLANK	18-May-20	10:43:24
5	200518R1_5	B0E0108-BLK1 Method Blank 1	18-May-20	11:30:24
6	200518R1_6	B0E0066-BLK1 Method Blank 10	18-May-20	12:17:25
7	200518R1_7	2000884-01 SPE016TIS-10G 1.01	18-May-20	13:04:23
8	200518R2_1	SOLVENT BLANK	18-May-20	14:00:16
9	200518R2_2	ST200518R2_1 1613 CS3 19L2305	18-May-20	14:46:59

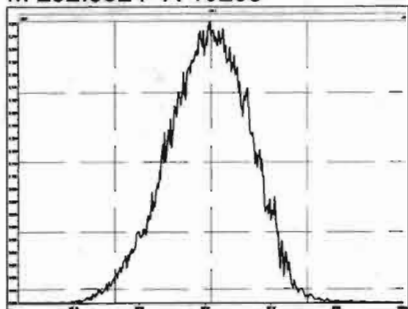
Experiment Calibration Report

MassLynx 4.1 SCN815

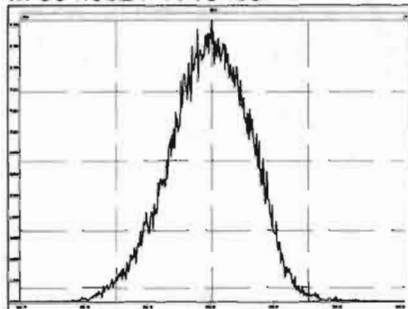
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Monday, May 18, 2020 08:15:30 Pacific Daylight Time

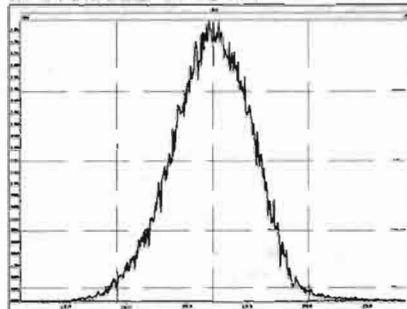
M 292.9824 R 10203



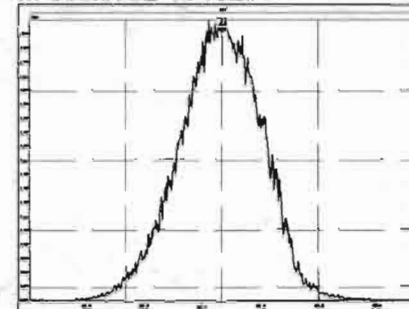
M 304.9824 R 10463



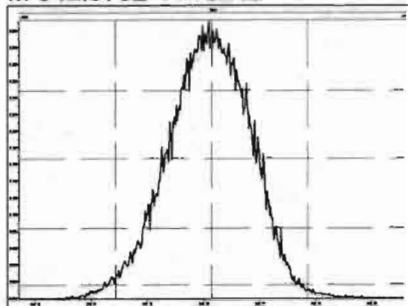
M 318.9792 R 10417



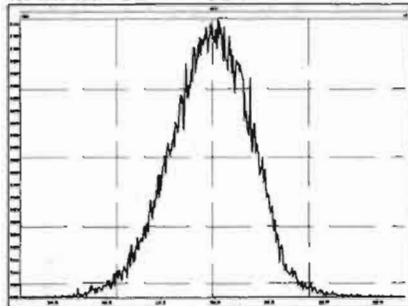
M 330.9792 R 10291



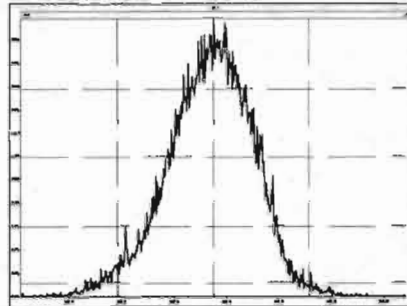
M 342.9792 R 10242



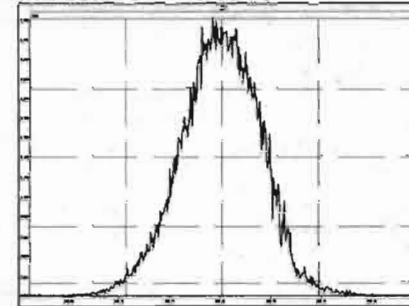
M 354.9792 R 10547



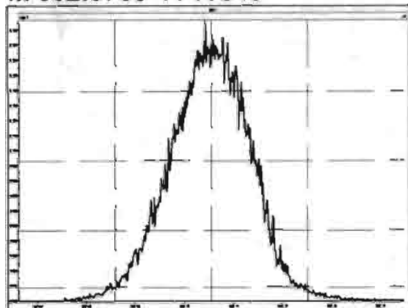
M 366.9792 R 10640



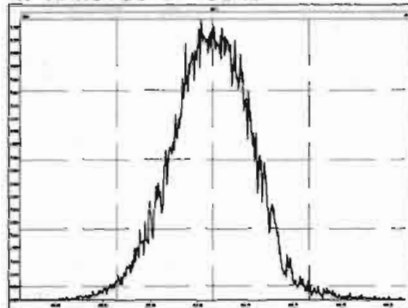
M 380.9760 R 10330



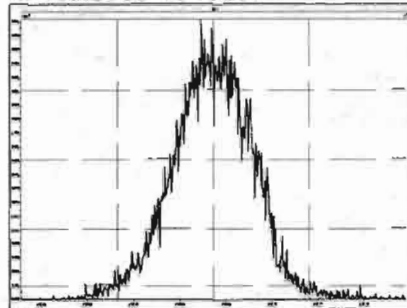
M 392.9760 R 10640



M 404.9760 R 10549



M 416.9760 R 10637

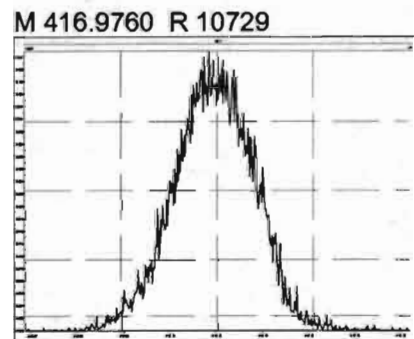
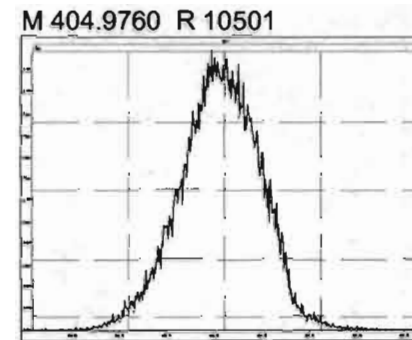
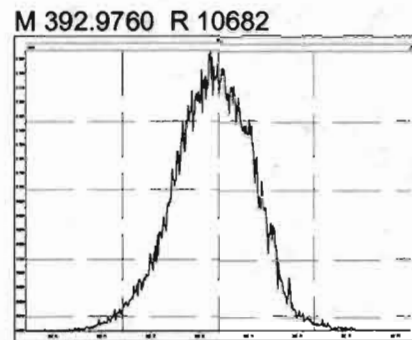
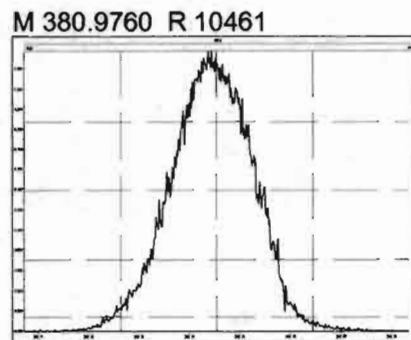
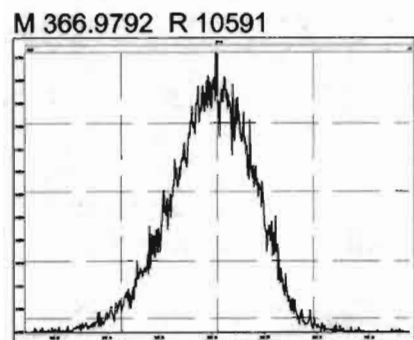
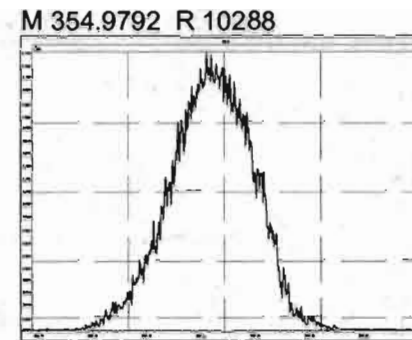
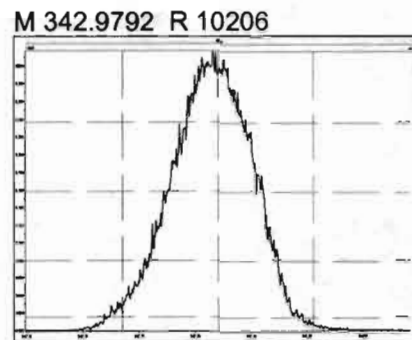
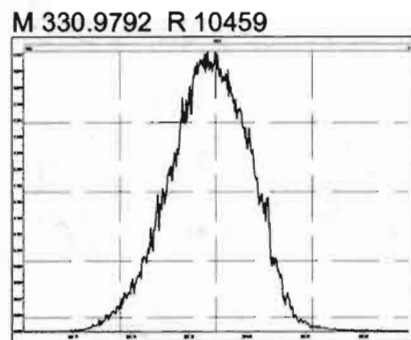
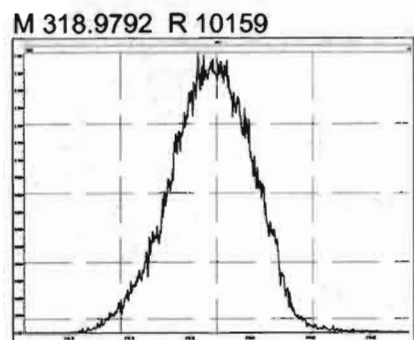


Experiment Calibration Report

MassLynx 4.1 SCN815

File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Monday, May 18, 2020 08:16:18 Pacific Daylight Time



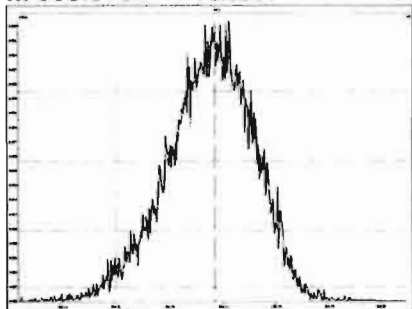
Experiment Calibration Report

MassLynx 4.1 SCN815

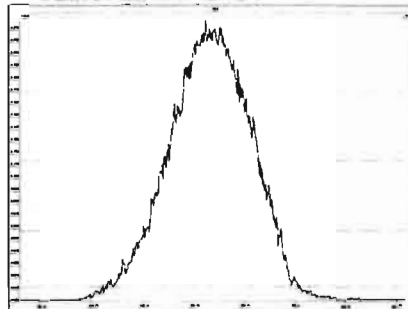
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Monday, May 18, 2020 08:17:41 Pacific Daylight Time

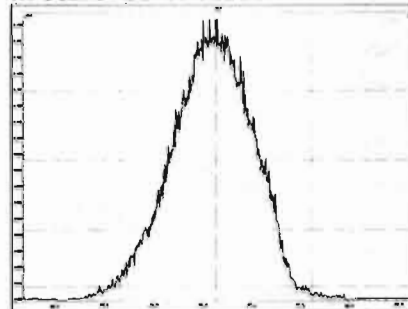
M 366.9792 R 10286



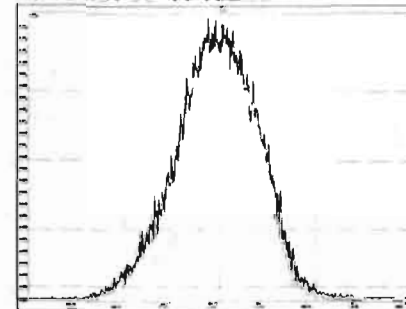
M 380.9760 R 10461



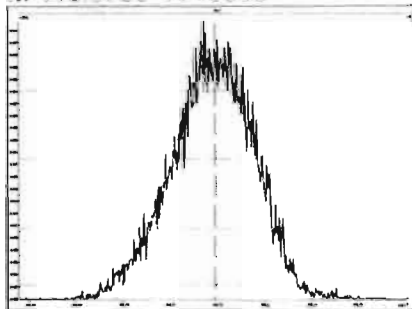
M 392.9760 R 10637



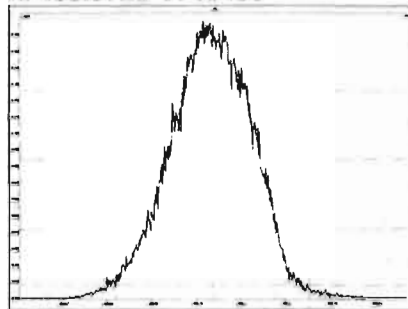
M 404.9760 R 10289



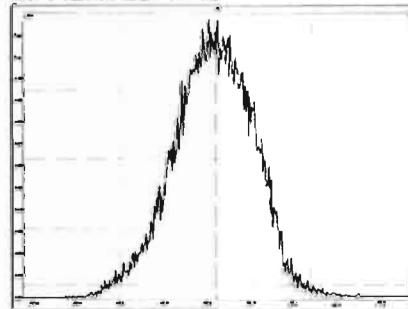
M 416.9760 R 10593



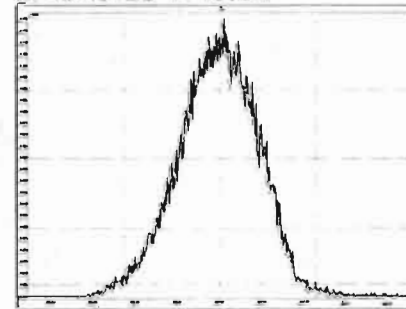
M 430.9728 R 10458



M 442.9728 R 10374



M 454.9728 R 10728



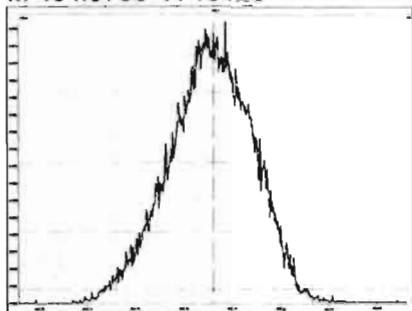
Experiment Calibration Report

MassLynx 4.1 SCN815

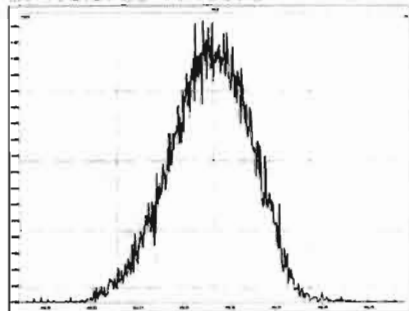
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Monday, May 18, 2020 08:18:36 Pacific Daylight Time

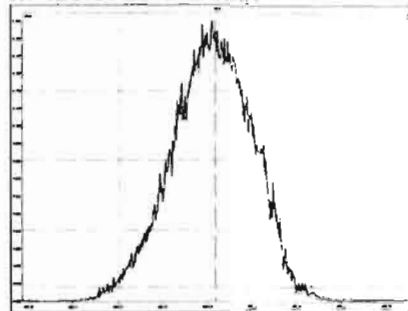
M 404.9760 R 10120



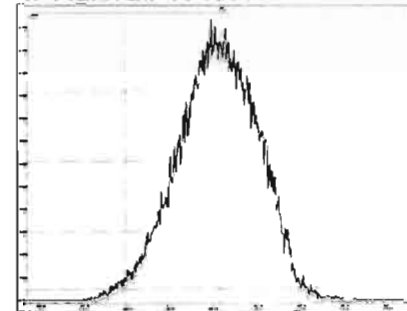
M 416.9760 R 10870



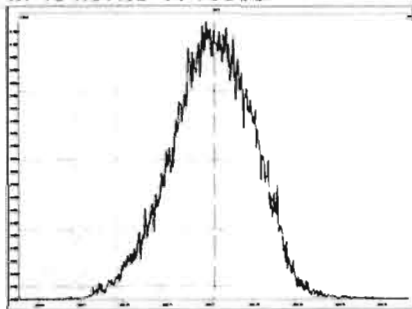
M 430.9728 R 10507



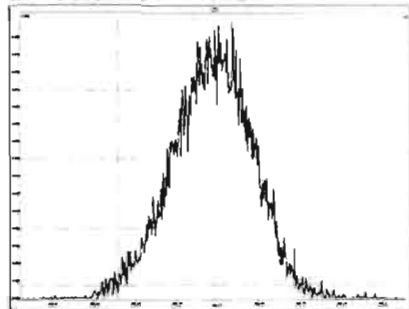
M 442.9728 R 10777



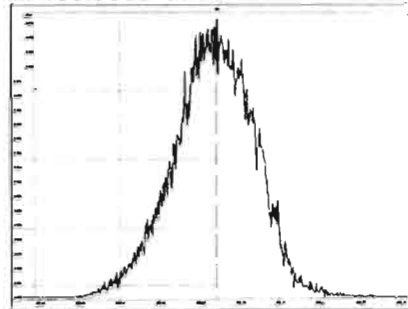
M 454.9728 R 10330



M 466.9728 R 10682



M 480.9696 R 11014



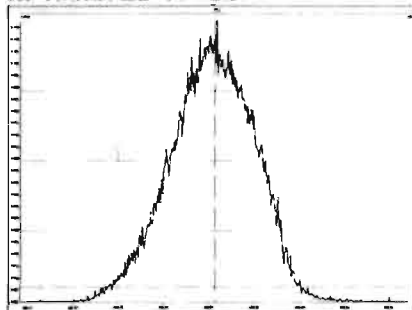
Experiment Calibration Report

MassLynx 4.1 SCN815

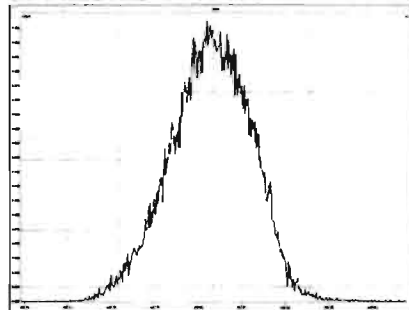
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Monday, May 18, 2020 08:19:24 Pacific Daylight Time

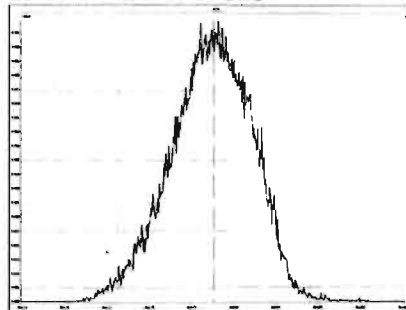
M 430.9728 R 10371



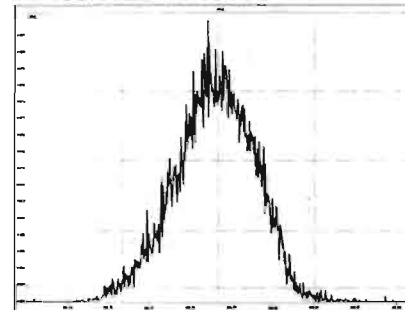
M 442.9728 R 10460



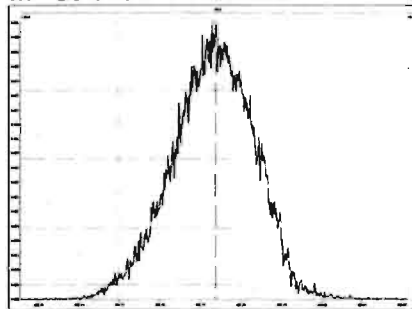
M 454.9728 R 10328



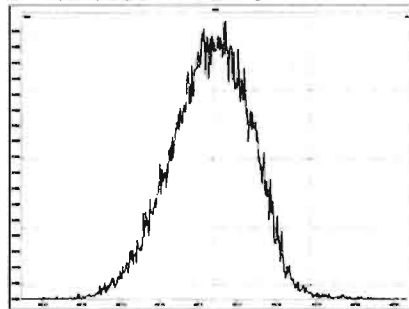
M 466.9728 R 10638



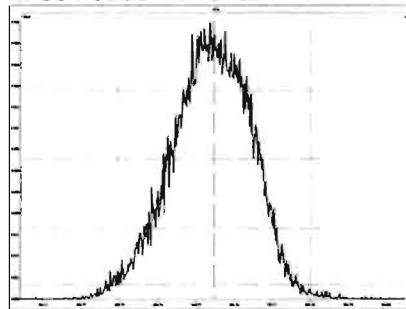
M 480.9696 R 10637



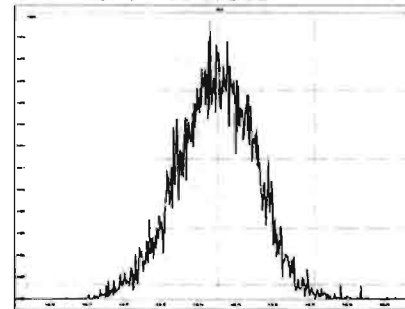
M 492.9696 R 10730



M 504.9696 R 10162



M 516.9697 R 11963



Dataset: Untitled

Last Altered: Monday, May 18, 2020 09:10:14 Pacific Daylight Time

Printed: Monday, May 18, 2020 09:10:33 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 08 Apr 2020 10:53:44

Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200518R1\_1, Date: 18-May-2020, Time: 08:21:51, ID: ST200518R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1,3,6,8-TCDD (First)	21.92
2	1,2,8,9-TCDD (Last)	27.08
3	1,2,4,7,9-PeCDD (First)	28.91
4	1,2,3,8,9-PeCDD (Last)	31.55
5	1,2,4,6,7,9-HxCDD (First)	33.05
6	1,2,3,7,8,9-HxCDD (Last)	34.91
7	1,2,3,4,6,7,9-HpCDD (First)	37.37
8	1,2,3,4,6,7,8-HpCDD (Last)	38.40
9	1,3,6,8-TCDF (First)	19.84
10	1,2,8,9-TCDF (Last)	27.23
11	1,3,4,6,8-PeCDF (First)	27.19
12	1,2,3,8,9-PeCDF (Last)	31.80
13	1,2,3,4,6,8-HxCDF (First)	32.49
14	1,2,3,7,8,9-HxCDF (Last)	35.26
15	1,2,3,4,6,7,8-HpCDF (First)	36.99
16	1,2,3,4,7,8,9-HpCDF (Last)	38.99

Dataset: Untitled

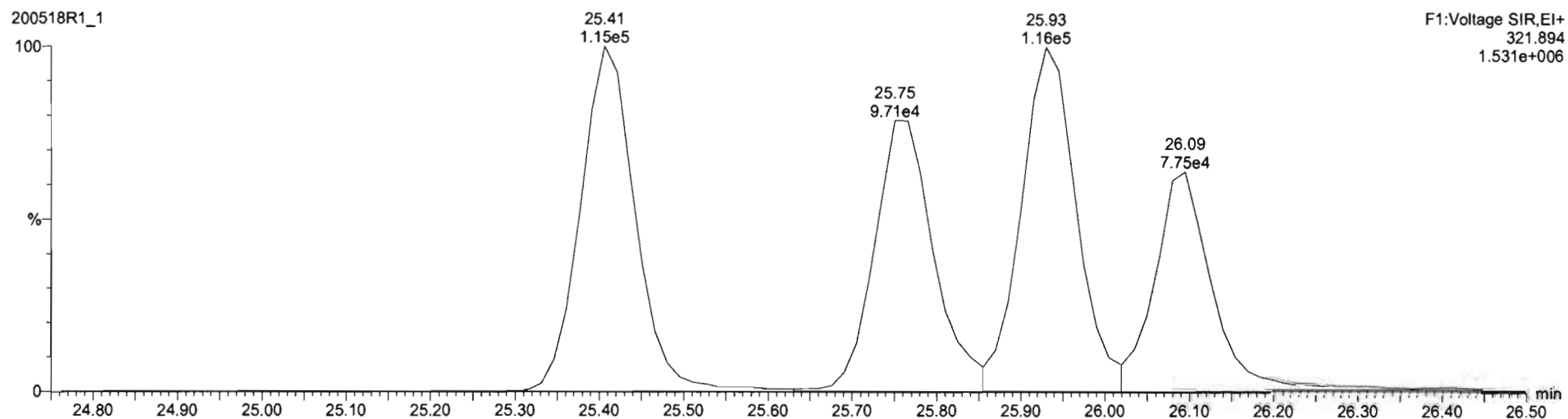
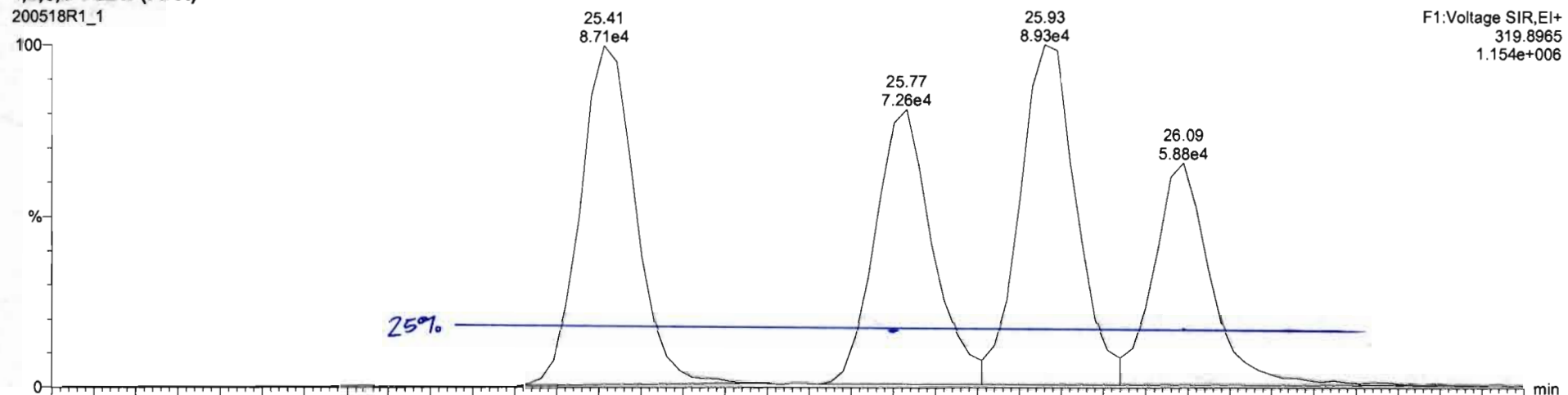
Last Altered: Monday, May 18, 2020 09:10:14 Pacific Daylight Time  
Printed: Monday, May 18, 2020 09:10:33 Pacific Daylight Time

GPO 05/18/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 08 Apr 2020 10:53:44  
Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200518R1\_1, Date: 18-May-2020, Time: 08:21:51, ID: ST200518R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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





Dataset: Untitled

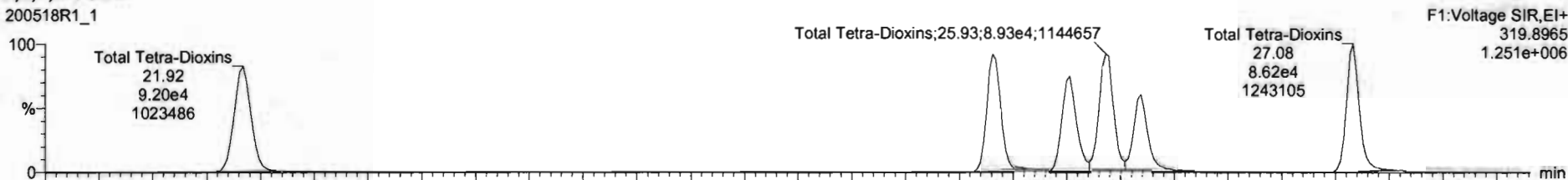
Last Altered: Monday, May 18, 2020 09:08:09 Pacific Daylight Time  
Printed: Monday, May 18, 2020 09:09:33 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02  
Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

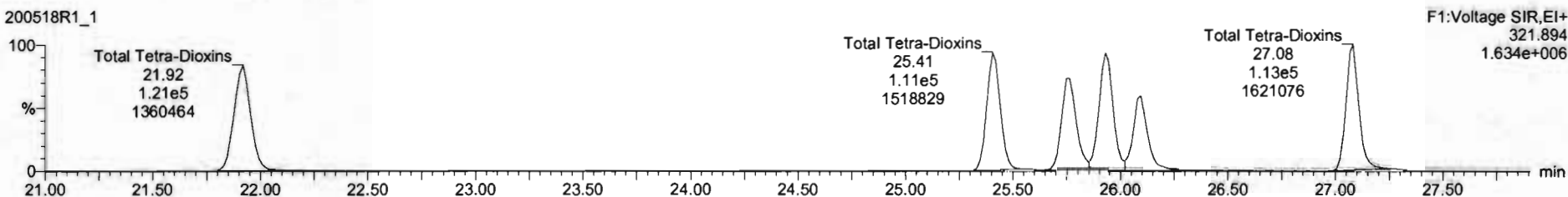
Name: 200518R1\_1, Date: 18-May-2020, Time: 08:21:51, ID: ST200518R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

**2,3,7,8-TCDD**

200518R1\_1

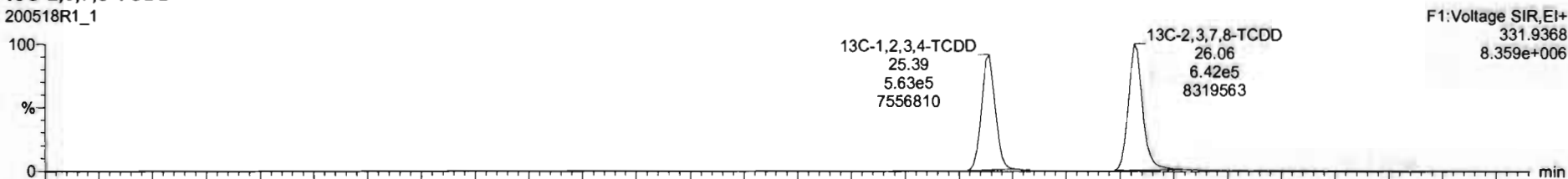


200518R1\_1

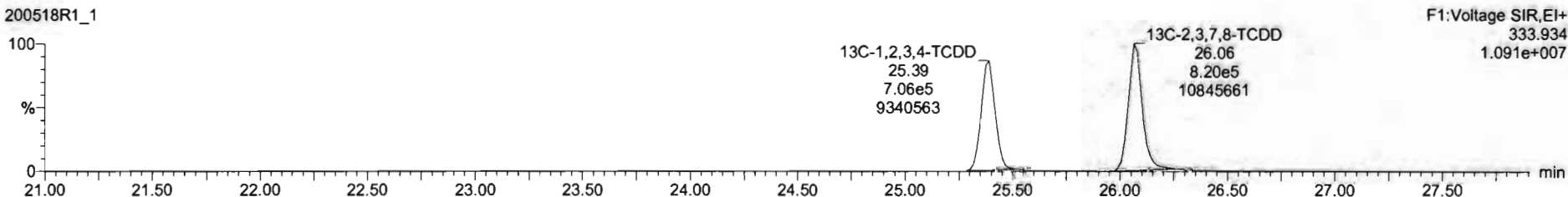


**13C-2,3,7,8-TCDD**

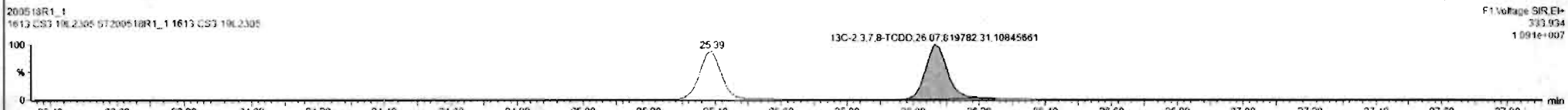
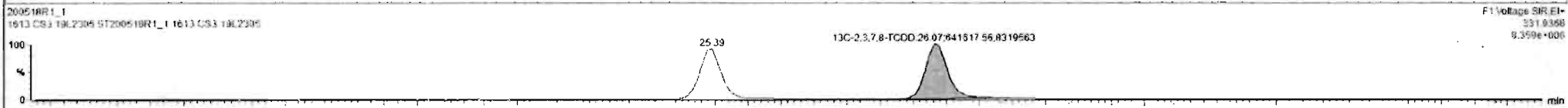
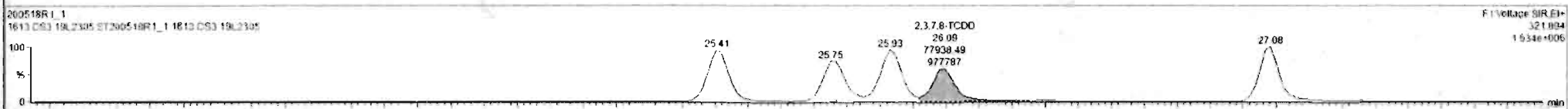
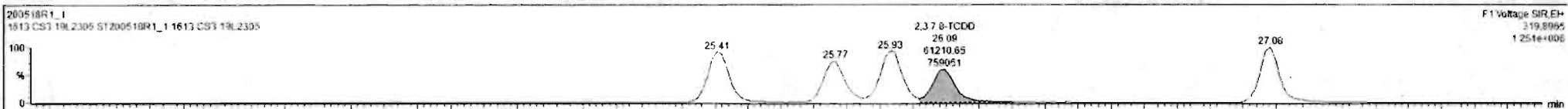
200518R1\_1



200518R1\_1



#	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	1.39e5	1.46e5	0.77	0.79	NO	0.9475	26.10	26.09	NO	1.001	1.001	10.0	100	NO
2	1,2,3,7,8-PeCDD	4.54e5	1.02e6	0.63	0.62	NO	0.9425	31.16	31.17	NO	1.001	1.001	47.1	94.2	NO
3	1,2,3,4,7,8-HxCDD	3.36e5	6.67e5	1.24	1.24	NO	1.0641	34.53	34.53	NO	1.000	1.000	47.4	94.8	NO
4	1,2,3,6,7,8-HxCDD	4.33e5	1.01e6	1.24	1.24	NO	0.9145	34.62	34.62	NO	1.000	1.000	45.8	91.7	NO
5	1,2,3,7,8,9-HxCDD	3.32e5	8.82e5	1.24	1.24	NO	0.9149	34.91	34.91	NO	1.000	1.000	41.1	82.2	NO
6	1,2,3,4,6,7,8-HpCDD	2.41e5	5.44e5	1.04	1.05	NO	0.6979	38.40	38.40	NO	1.000	1.000	39.2	98.8	NO
7	OCDD	4.93e5	1.08e6	0.29	0.89	NO	0.9335	41.38	41.39	NO	1.000	1.000	98.2	96.3	NO
8	2,3,7,8-TCDF	1.44e5	1.89e5	0.77	0.77	NO	0.7871	25.16	25.17	NO	1.001	1.001	9.66	96.8	NO
9	1,2,3,7,8-PeCDF	6.93e5	1.57e6	1.55	1.58	NO	0.9102	29.86	29.86	NO	1.001	1.001	48.5	97.0	NO
10	2,3,4,7,8-PeCDF	8.95e5	1.40e6	1.55	1.58	NO	0.9564	30.87	30.85	NO	1.001	1.000	48.1	96.1	NO
11	1,2,3,4,7,8-HxCDF	4.13e5	8.52e5	1.24	1.21	NO	0.8782	33.65	33.67	NO	1.000	1.001	52.7	105	NO
12	1,2,3,6,7,8-HxCDF	5.46e5	1.15e6	1.24	1.23	NO	0.8740	33.78	33.79	NO	1.000	1.001	54.1	108	NO
13	2,3,4,6,7,8-HxCDF	4.62e5	9.97e5	1.24	1.23	NO	0.9217	34.39	34.37	NO	1.001	1.000	52.4	105	NO
14	1,2,3,7,8,9-HxCDF	3.41e5	7.55e5	1.24	1.24	NO	0.8642	35.24	35.25	NO	1.000	1.001	52.2	104	NO
15	1,2,3,4,6,7,8-HpCDF	3.36e5	7.26e5	1.04	0.96	NO	0.8712	37.01	36.99	NO	1.001	1.000	53.0	106	NO
16	1,2,3,4,7,8,9-HpCDF	2.51e5	4.51e5	1.04	1.02	NO	1.0116	38.98	38.99	NO	1.000	1.000	55.1	110	NO
17	OCDF	5.57e5	1.15e6	0.29	0.88	NO	0.8021	41.56	41.57	NO	1.000	1.000	105	105	NO
18	13C-2,3,7,8-TCDD	1.46e6	1.27e6	0.77	0.78	NO	1.1595	26.06	26.07	NO	1.026	1.027	99.3	99.3	NO
19	13C-1,2,3,7,8-PeCDD	1.02e6	1.27e6	0.63	0.63	NO	0.8472	31.16	31.14	NO	1.227	1.226	95.2	95.2	NO



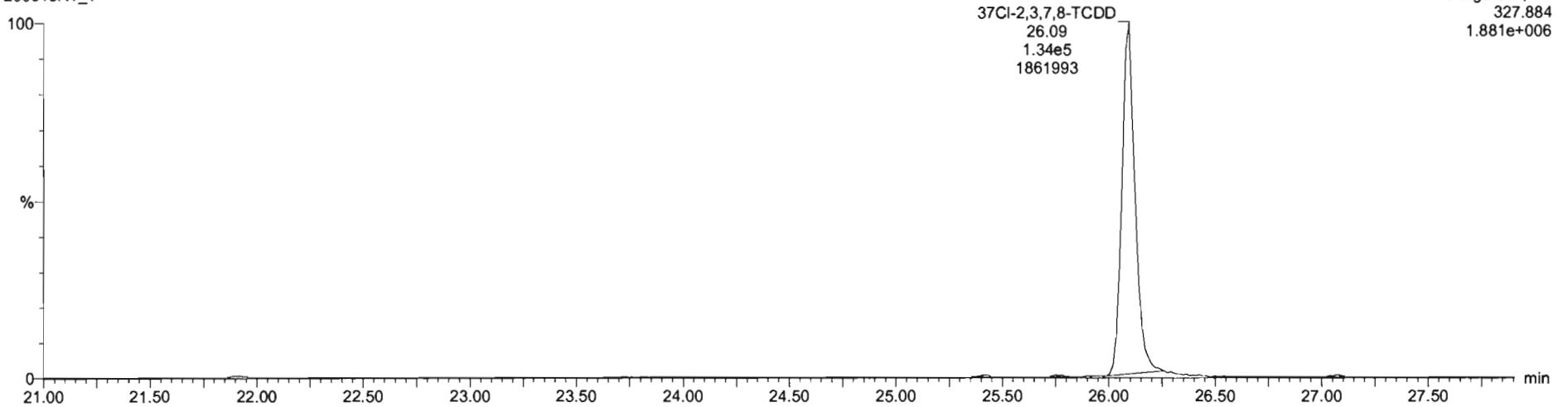
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Printed: Monday, May 18, 2020 09:09:33 Pacific Daylight Time

Name: 200518R1\_1, Date: 18-May-2020, Time: 08:21:51, ID: ST200518R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

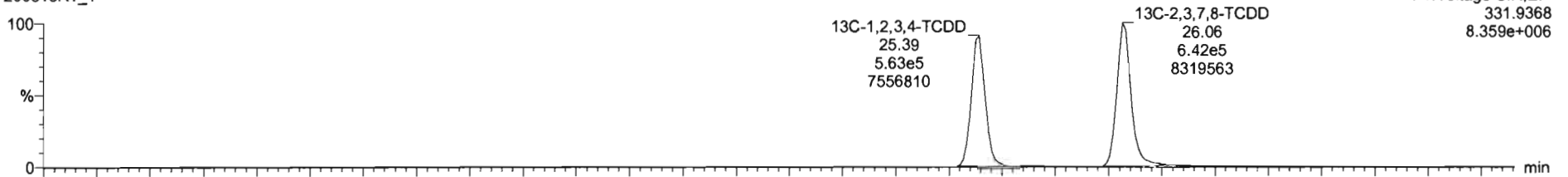
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200518R1\_1

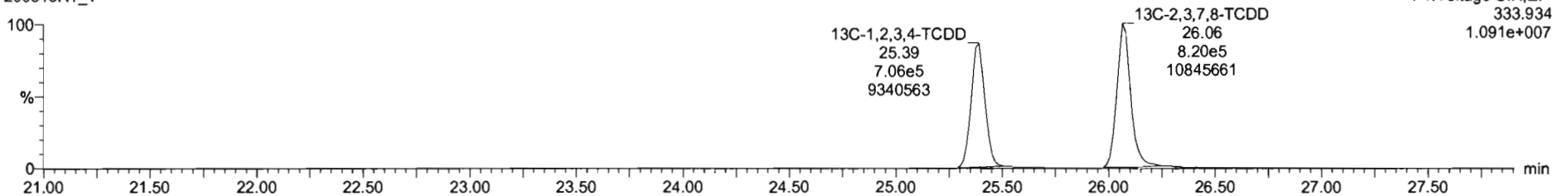


**13C-1,2,3,4-TCDD**

200518R1\_1



200518R1\_1



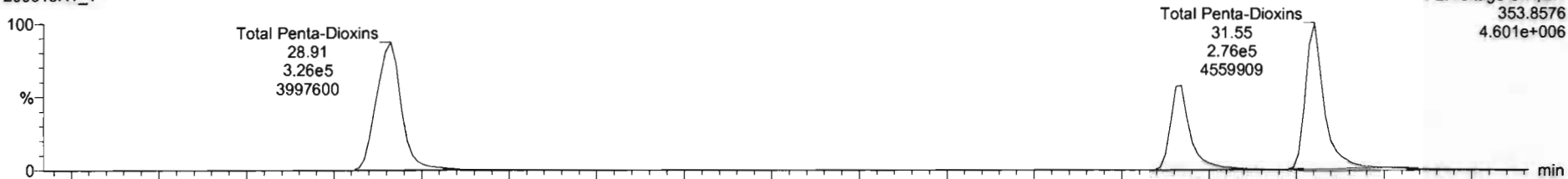
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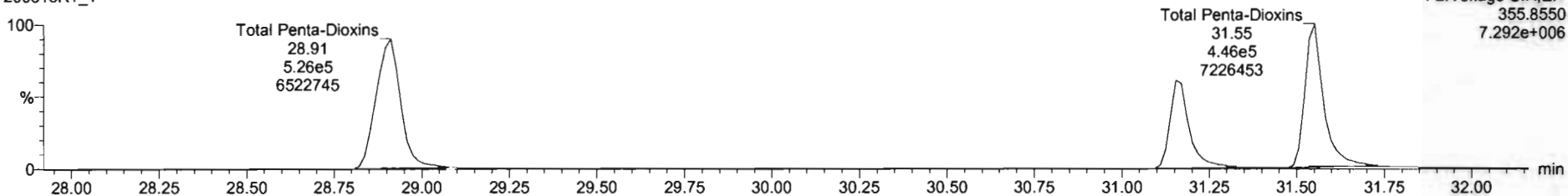
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**1,2,3,7,8-PeCDD**

200518R1\_1

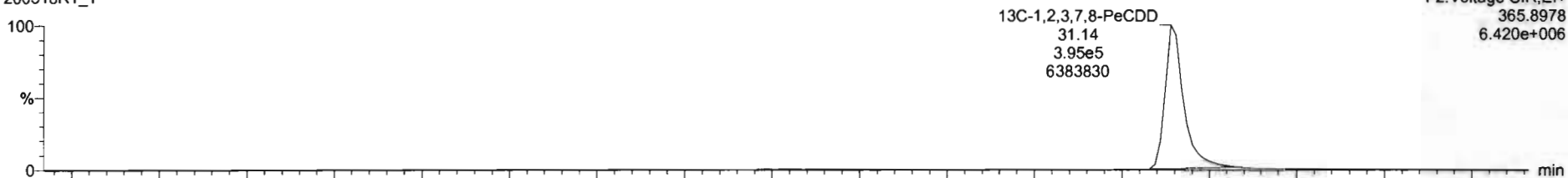


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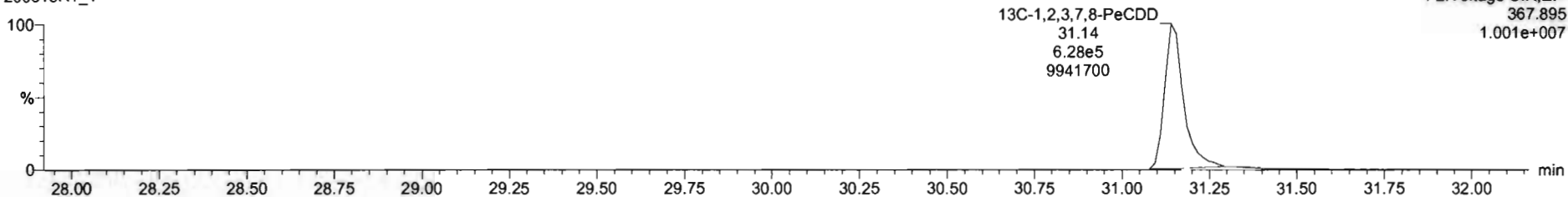


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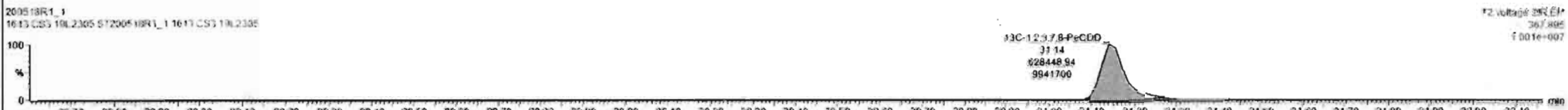
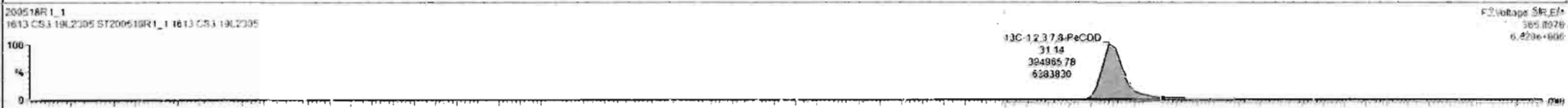
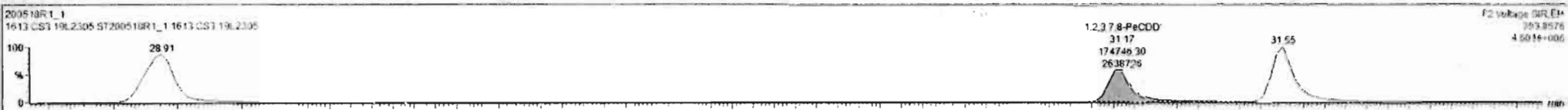
200518R1\_1



200518R1\_1



#	Name	Resp	S Resp	Pred RA	RA	ely	RHF	Prod RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1 2,3,7,8-TCDD	1.30e5	1.46e5	0.77	0.79	NO	0.9475	26.10	26.09	NO	1.001	1.001	10.0	100	NO
2	2 1,2,3,7,8-PeCDD	4.85e5	1.02e6	0.83	0.80	NO	0.9425	31.16	31.17	NO	1.091	1.001	45.2	99.4	NO
3	3 1,2,3,4,7,8-HxCDD	3.36e5	8.87e5	1.24	1.24	NO	1.0641	34.53	34.53	NO	1.000	1.000	47.4	94.6	NO
4	4 1,2,3,6,7,8-HxCDD	4.33e5	1.03e6	1.24	1.24	NO	0.9145	34.62	34.63	NO	1.000	1.000	45.8	91.7	NO
5	5 1,2,3,7,8,9-HxCDD	3.32e5	8.22e5	1.24	1.24	NO	0.9149	34.91	34.91	NO	1.000	1.000	41.1	82.2	NO
6	6 1,2,3,4,6,7,8-HpCDD	2.41e5	5.44e5	1.04	1.05	NO	0.8975	38.40	38.40	NO	1.000	1.000	49.3	98.6	NO
7	7 OCDD	4.93e5	1.02e6	0.89	0.89	NO	0.8335	41.38	41.39	NO	1.000	1.000	98.2	96.3	NO
8	8 2,3,7,8-TCDF	1.44e5	1.89e5	0.77	0.77	NO	0.7871	25.16	25.17	NO	1.001	1.001	9.86	96.8	NO
9	9 1,2,3,7,8-PeCDF	6.93e5	1.57e6	1.55	1.58	NO	0.9102	29.96	29.96	NO	1.001	1.001	48.5	97.0	NO
10	10 2,3,4,7,8-PeCDF	6.88e5	1.49e6	1.55	1.56	NO	0.9564	30.87	30.85	NO	1.001	1.000	48.1	96.1	NO
11	11 1,2,3,4,7,8-HxCDF	4.13e5	6.52e5	1.24	1.21	NO	0.8782	33.68	33.67	NO	1.000	1.001	52.7	105	NO
12	12 1,2,3,6,7,8-HxCDF	5.46e5	1.15e6	1.24	1.23	NO	0.8740	33.78	33.76	NO	1.000	1.001	54.1	108	NO
13	13 2,3,4,6,7,8-HxCDF	4.60e5	9.97e5	1.24	1.23	NO	0.9217	34.39	34.37	NO	1.001	1.000	52.4	105	NO
14	14 1,2,3,7,8,9-HxCDF	3.41e5	7.55e5	1.24	1.24	NO	0.8642	35.24	35.26	NO	1.000	1.001	52.2	104	NO
15	15 1,2,3,4,6,7,8-HpCDF	3.30e5	7.26e5	1.04	0.96	NO	0.8712	37.01	36.99	NO	1.001	1.000	53.0	106	NO
16	16 1,2,3,4,7,8,9-HpCDF	2.51e5	4.51e5	1.04	1.02	NO	1.0116	38.98	38.99	NO	1.000	1.000	55.1	110	NO
17	17 OCDF	5.57e5	1.37e6	0.85	0.86	NO	0.8921	41.56	41.57	NO	1.000	1.000	105	105	NO
18	18 13C-2,3,7,8-TCDD	1.46e6	1.27e6	0.77	0.78	NO	1.1595	26.06	26.07	NO	1.026	1.027	99.3	99.3	NO
19	19 13C-1,2,3,7,8-PeCDD	1.02e6	1.27e6	0.63	0.63	NO	0.8472	31.18	31.14	NO	1.227	1.226	95.2	95.2	NO



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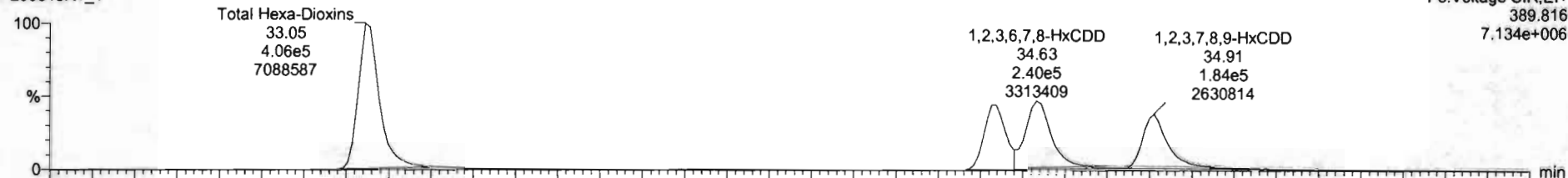
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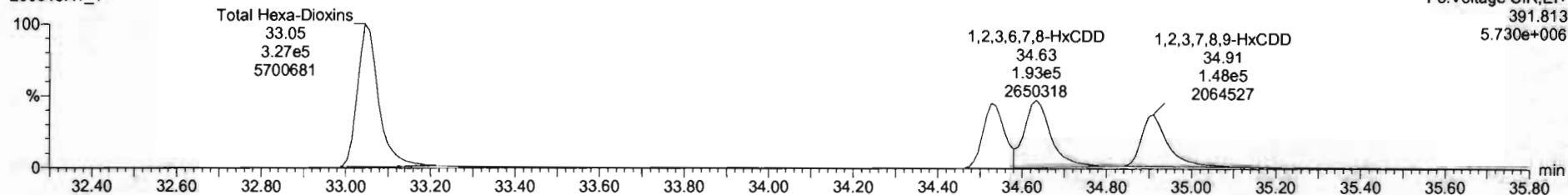
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**1,2,3,4,7,8-HxCDD**

200518R1\_1

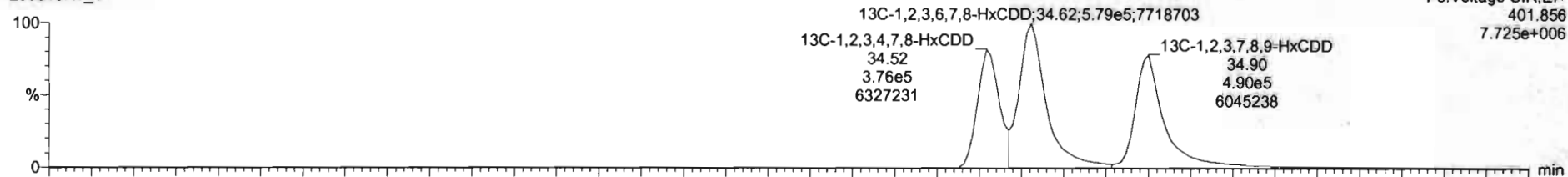


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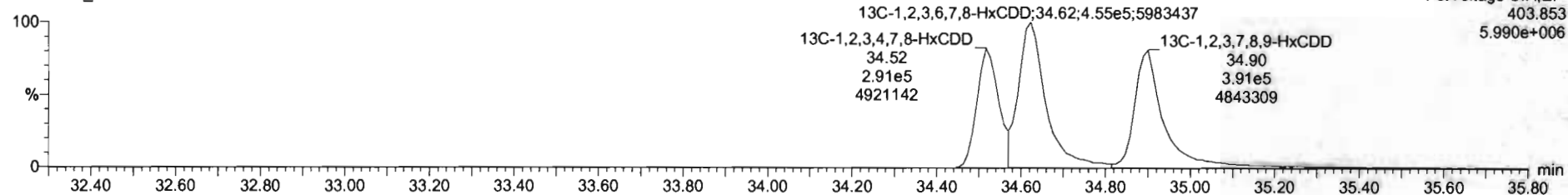


**13C-1,2,3,4,7,8-HxCDD**

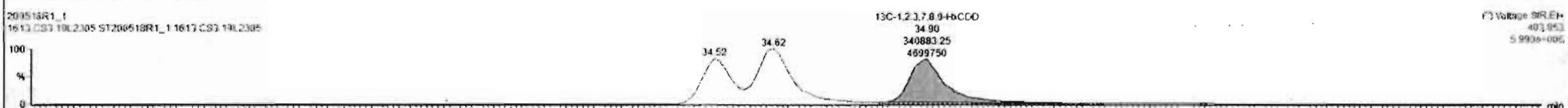
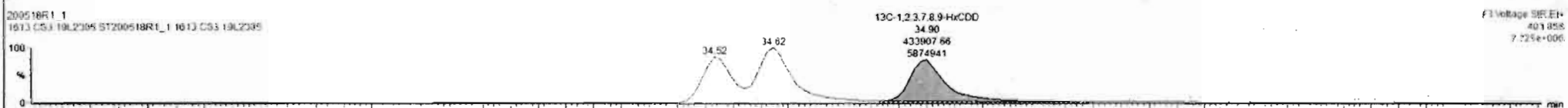
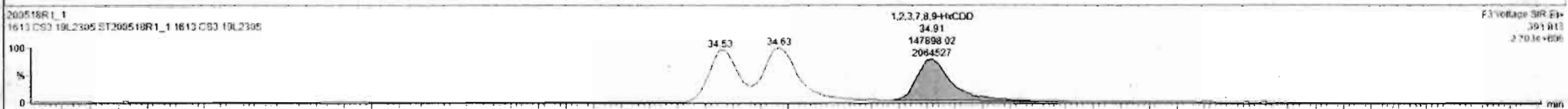
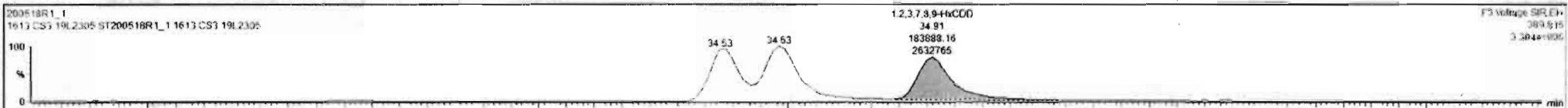
200518R1\_1



200518R1\_1



#	Name	Resp	IS Resp	Pred RA	RA	nly	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	1.39e5	1.46e5	0.77	0.79	NO	0.9475	26.10	26.99	NO	1.001	1.001	10.0	100	NO
2	1,2,3,7,8-PeCDD	4.85e5	1.02e6	0.63	0.60	NO	0.9425	31.16	31.17	NO	1.001	1.001	45.2	96.4	NO
3	1,2,3,4,7,8-HxCDD	2.35e5	6.87e5	1.24	1.24	NO	1.0641	34.53	34.53	NO	1.000	1.000	47.4	94.6	NO
4	1,2,3,6,7,8-HxCDD	4.33e5	1.03e6	1.24	1.24	NO	0.9145	34.82	34.63	NO	1.000	1.000	45.6	91.7	NO
5	1,2,3,7,8,9-HxCDD	3.32e5	7.75e5	1.24	1.24	NO	0.9149	34.91	34.91	NO	1.000	1.000	46.8	93.6	NO
6	1,2,3,4,6,7,8-HpCDD	2.41e5	1.44e5	1.04	1.05	NO	0.8575	38.40	38.40	NO	1.000	1.000	49.2	98.8	NO
7	OCDD	4.93e5	1.08e6	0.89	0.89	NO	0.9335	41.38	41.39	NO	1.000	1.000	98.3	96.3	NO
8	2,3,7,8-TCDF	1.44e5	1.89e6	0.77	0.77	NO	0.7871	25.16	25.17	NO	1.001	1.001	9.68	96.8	NO
9	1,2,3,7,8-PeCDF	6.93e5	1.57e6	1.55	1.58	NO	0.9102	29.96	29.96	NO	1.001	1.001	46.5	97.0	NO
10	1,2,3,4,7,8-PeCDF	6.98e5	1.48e6	1.55	1.56	NO	0.9564	30.87	30.85	NO	1.001	1.000	48.1	96.1	NO
11	1,2,3,4,7,8-HxCDF	4.13e5	8.52e5	1.24	1.21	NO	0.6782	33.65	33.67	NO	1.000	1.001	52.7	105	NO
12	1,2,3,6,7,8-HxCDF	5.46e5	1.15e6	1.24	1.23	NO	0.8740	33.70	33.79	NO	1.000	1.001	54.1	105	NO
13	1,2,3,4,6,7,8-HxCDF	4.62e5	9.97e5	1.24	1.23	NO	0.9217	34.39	34.37	NO	1.001	1.000	52.4	105	NO
14	1,2,3,7,8,9-HxCDF	3.41e5	7.55e5	1.24	1.24	NO	0.9547	35.24	35.25	NO	1.000	1.001	52.2	104	NO
15	1,2,3,4,6,7,8-HpCDF	3.06e5	7.26e5	1.04	0.96	NO	0.8712	37.01	36.99	NO	1.001	1.000	53.0	106	NO
16	1,2,3,4,7,8,9-HpCDF	2.51e5	4.51e5	1.04	1.02	NO	1.0116	38.58	38.99	NO	1.000	1.000	55.1	110	NO
17	OCDF	5.57e5	1.33e6	0.89	0.88	NO	0.8021	41.56	41.57	NO	1.000	1.000	105	105	NO
18	13C-1,2,3,7,8-TCDD	1.46e6	1.27e6	0.77	0.78	NO	1.1556	26.06	26.07	NO	1.026	1.027	99.3	99.3	NO
19	13C-1,2,3,7,8-PeCDD	1.02e5	1.27e5	0.63	0.63	NO	0.9472	31.16	31.14	NO	1.227	1.226	95.2	95.2	NO



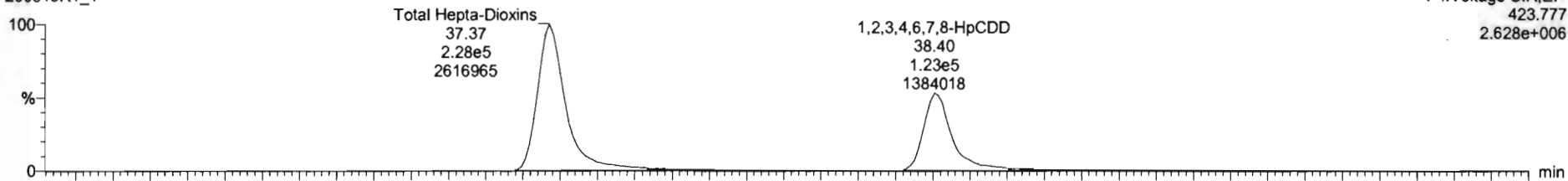
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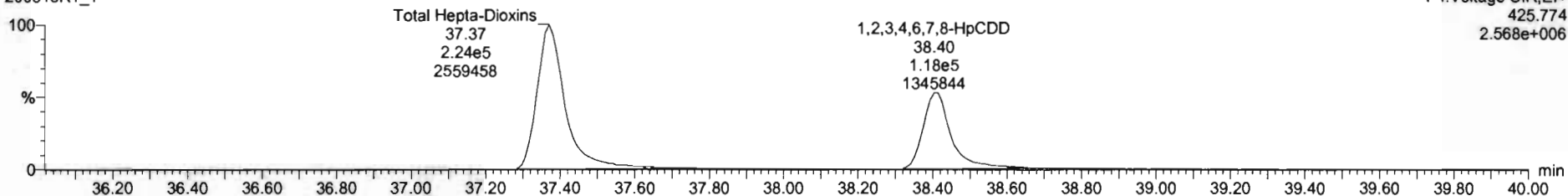
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1,2,3,4,6,7,8-HpCDD

200518R1\_1

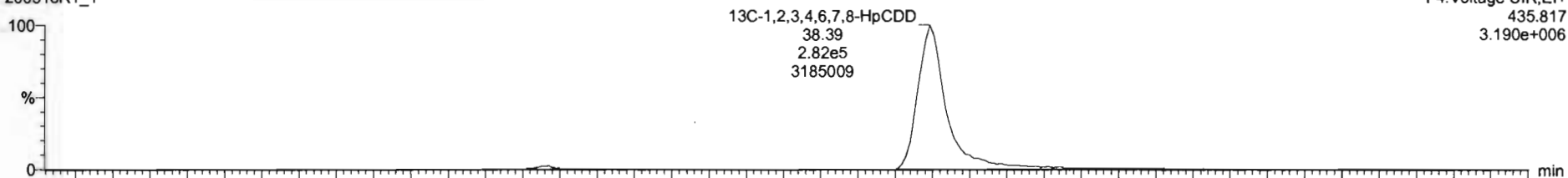


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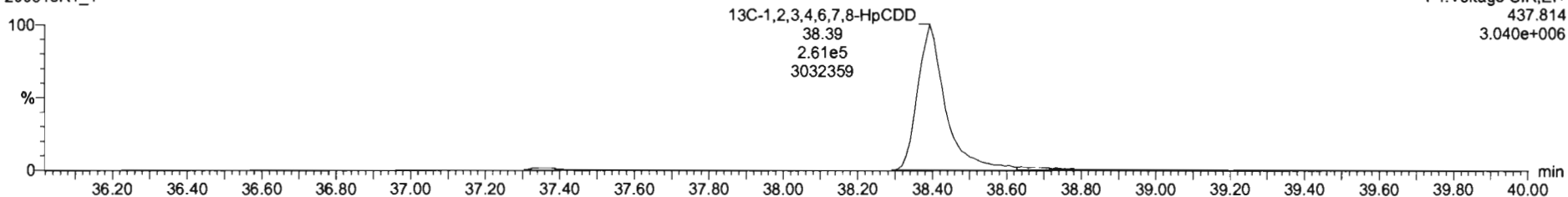


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200518R1\_1

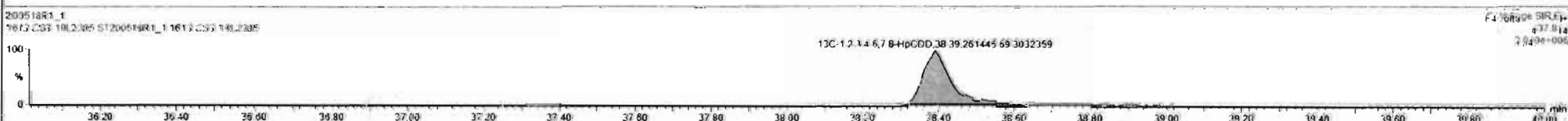
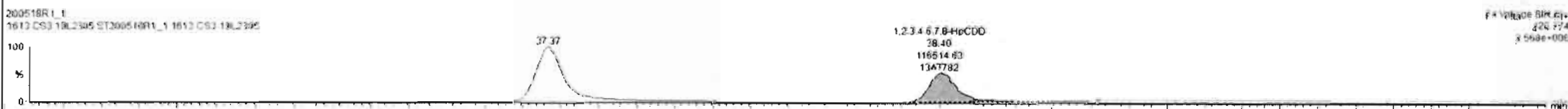


200518R1\_1





#	Name	Resp	IS Resp	Pred RA	RA	nly	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1.2,3,7,8-TCDD	1.30e5	1.46e5	0.77	0.79	NO	0.9475	26.10	26.09	NO	1.001	1.001	10.0	100	NO
2	1.2,3,7,8-PeCDD	4.85e5	1.02e6	0.63	0.60	NO	0.9426	31.16	31.17	NO	1.001	1.001	48.2	96.4	NO
3	1.2,3,4,7,8-HxCDD	3.96e5	6.67e5	1.24	1.24	NO	1.0541	34.53	34.53	NO	1.000	1.000	47.4	94.6	NO
4	1.2,3,6,7,8-HxCDD	4.35e5	1.03e6	1.24	1.24	NO	0.9145	34.62	34.63	NO	1.000	1.000	45.6	91.7	NO
5	1.2,3,7,8,9-HxCDD	3.32e5	7.75e5	1.24	1.24	NO	0.9145	34.91	34.91	NO	1.000	1.000	46.6	93.6	NO
6	1.2,3,4,6,7,8-HpCDD	2.34e5	5.33e5	1.04	1.01	NO	0.6979	38.40	38.46	NO	1.000	1.000	48.9	97.7	NO
7	OCDD	4.63e5	1.08e6	0.89	0.89	NO	0.9335	41.38	41.39	NO	1.000	1.000	98.3	98.3	NO
8	2,3,7,8-TCDF	1.44e5	1.89e6	0.77	0.77	NO	0.7871	25.16	25.17	NO	1.001	1.001	9.86	96.8	NO
9	1.2,3,7,8-PeCDF	6.93e5	1.57e6	1.55	1.58	NO	0.9162	29.86	29.86	NO	1.001	1.001	48.6	97.0	NO
10	1.2,3,4,7,8-HxCDF	6.90e5	1.48e6	1.55	1.58	NO	0.9564	30.87	30.86	NO	1.001	1.000	48.1	96.1	NO
11	1.2,3,4,7,8-HxCDF	4.13e5	6.52e5	1.24	1.21	NO	0.6782	33.65	33.67	NO	1.000	1.001	52.7	105	NO
12	1.2,3,6,7,8-HxCDF	5.46e5	1.15e6	1.24	1.23	NO	0.8740	33.72	33.79	NO	1.000	1.001	54.1	108	NO
13	1.2,3,4,6,7,8-HxCDF	4.62e5	9.97e5	1.24	1.23	NO	0.9217	34.39	34.37	NO	1.001	1.000	52.4	105	NO
14	1.2,3,7,8,9-HxCDF	3.41e5	7.55e5	1.24	1.24	NO	0.9542	35.24	35.26	NO	1.000	1.001	52.2	104	NO
15	1.2,3,4,7,8-HpCDF	3.96e5	7.26e5	1.04	0.96	NO	0.8712	37.01	36.99	NO	1.001	1.000	53.0	106	NO
16	1.2,3,4,7,8,9-HpCDF	2.51e5	4.51e5	1.04	1.02	NO	1.0116	38.98	38.99	NO	1.000	1.000	55.1	110	NO
17	OCDF	5.97e5	1.33e6	0.89	0.88	NO	0.8021	41.56	41.57	NO	1.000	1.000	105	105	NO
18	13C-1,2,3,7,8-TCDD	1.46e6	1.27e6	0.77	0.78	NO	1.1595	26.06	26.07	NO	1.026	1.027	99.3	99.3	NO
19	13C-1,2,3,7,8-PeCDD	1.02e6	1.27e6	0.63	0.63	NO	0.9472	31.16	31.14	NO	1.227	1.228	95.2	95.2	NO



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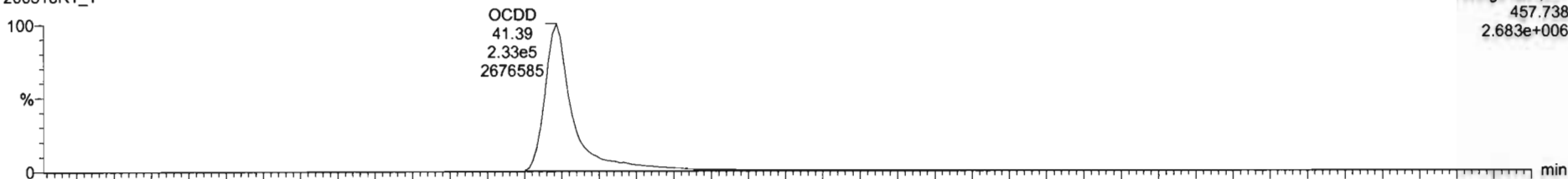
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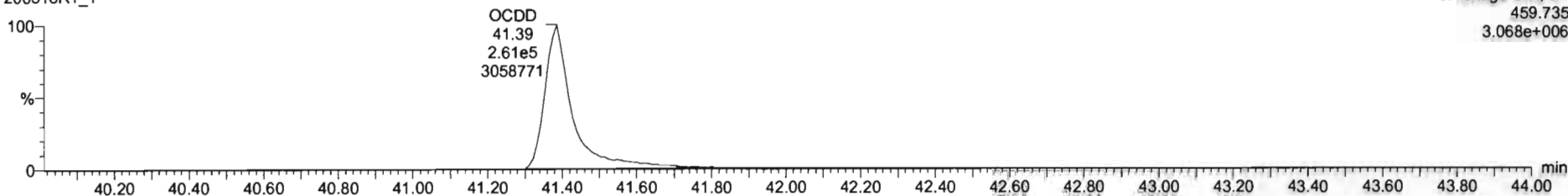
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**OCDD**

200518R1\_1



200518R1\_1

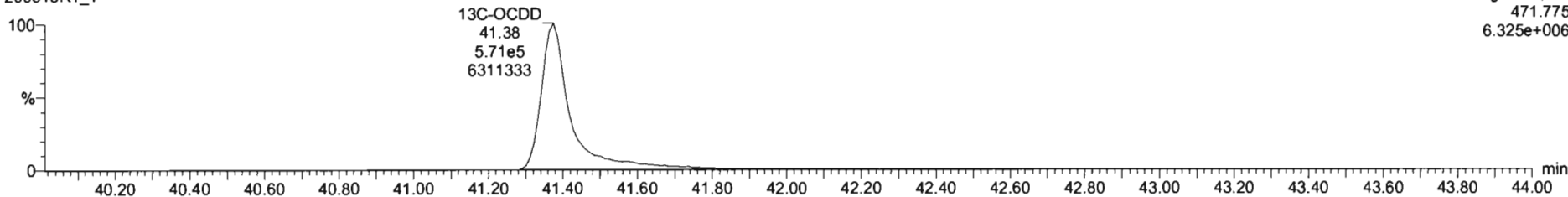


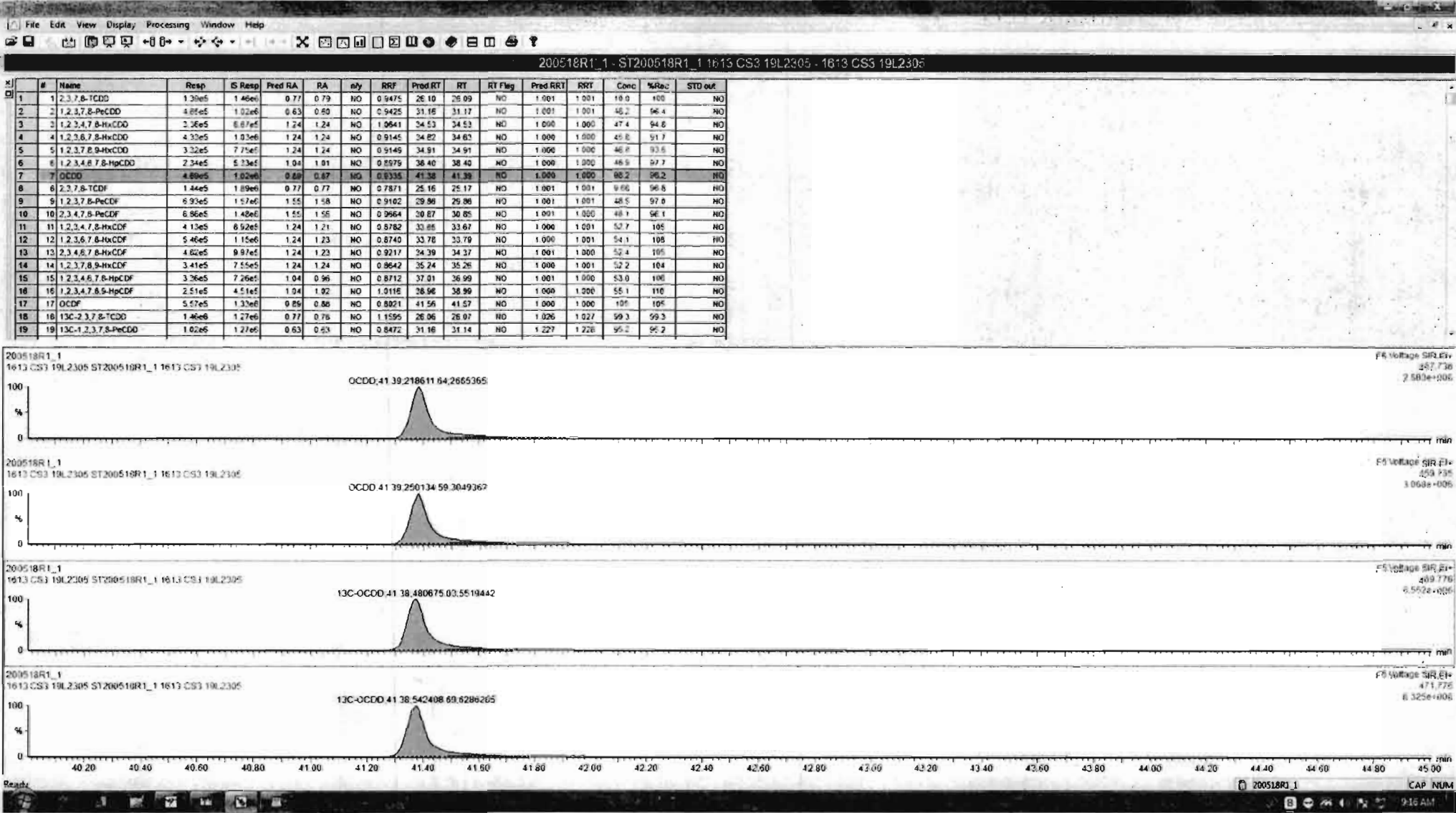
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200518R1\_1



200518R1\_1





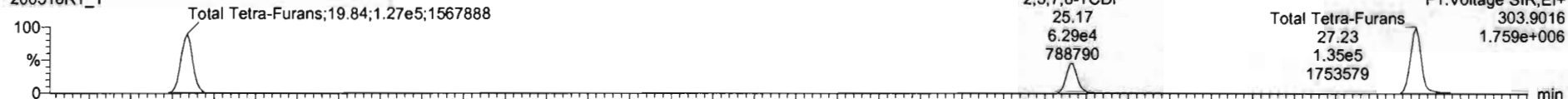
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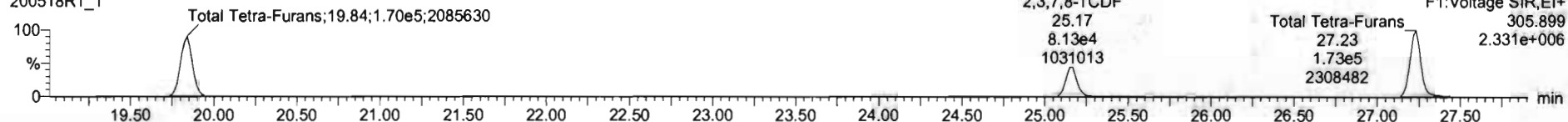
Name: 200518R1\_1, Date: 18-May-2020, Time: 08:21:51, ID: ST200518R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

**2,3,7,8-TCDF**

200518R1\_1

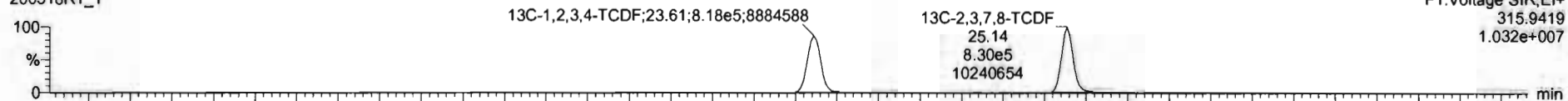


200518R1\_1

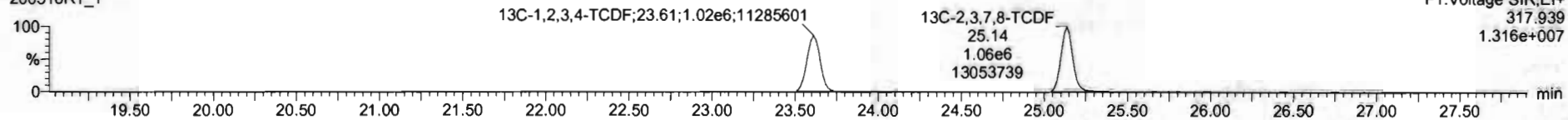


**13C-2,3,7,8-TCDF**

200518R1\_1

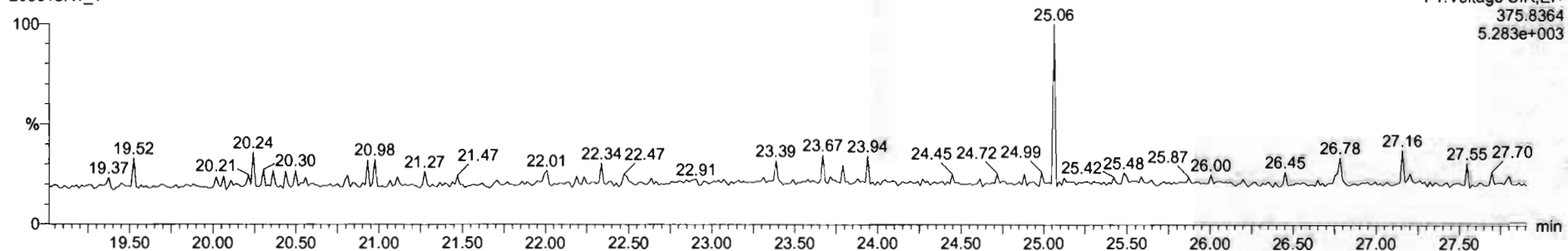


200518R1\_1



**DPE1**

200518R1\_1



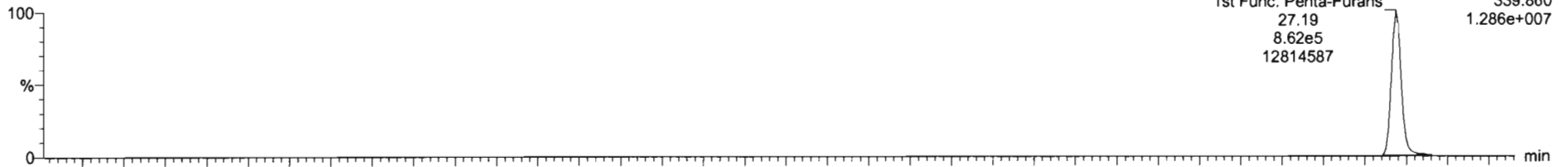
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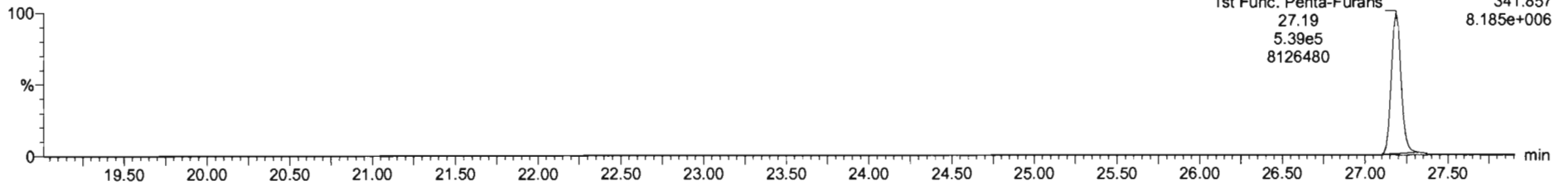
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1st Func. Penta-Furans

200518R1\_1

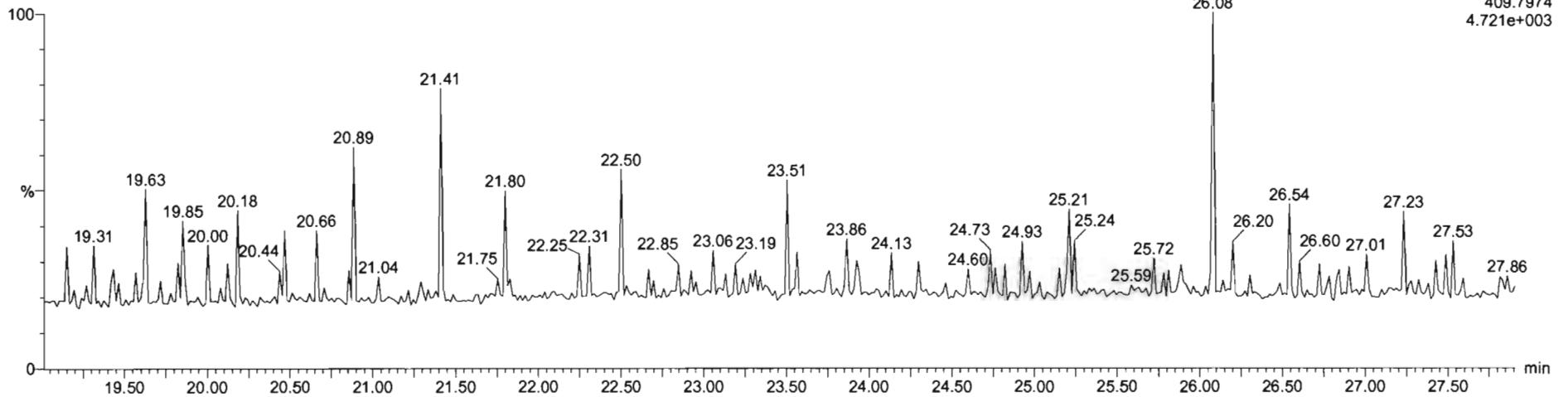


200518R1\_1



DPE6

200518R1\_1



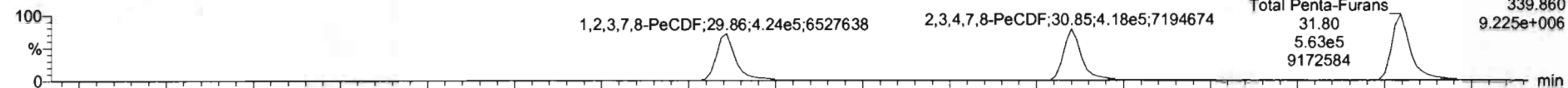
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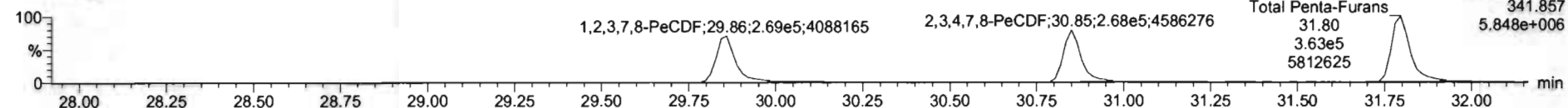
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**1,2,3,7,8-PeCDF**

200518R1\_1

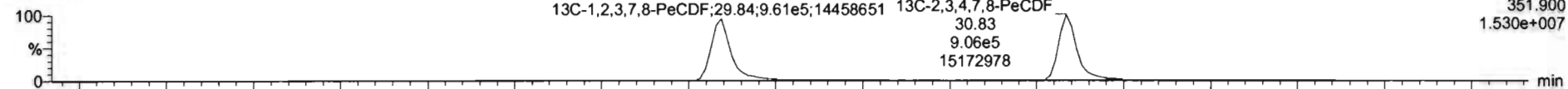


200518R1\_1

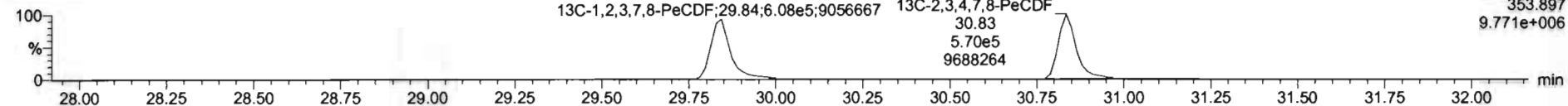


**13C-1,2,3,7,8-PeCDF**

200518R1\_1

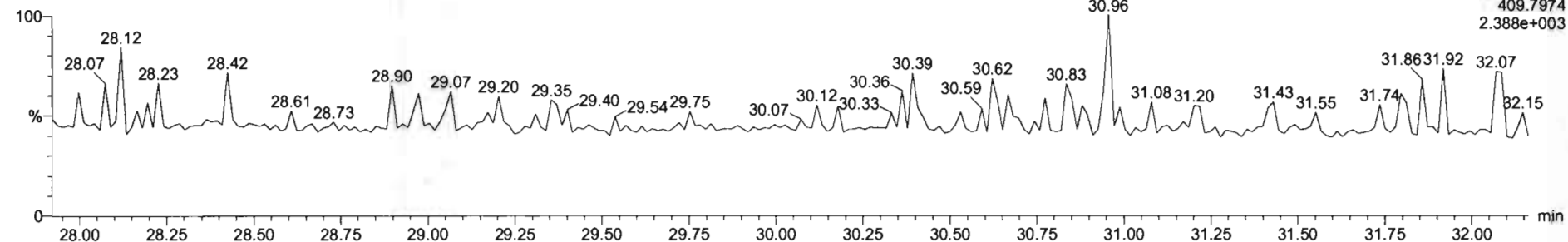


200518R1\_1



**DPE2**

200518R1\_1



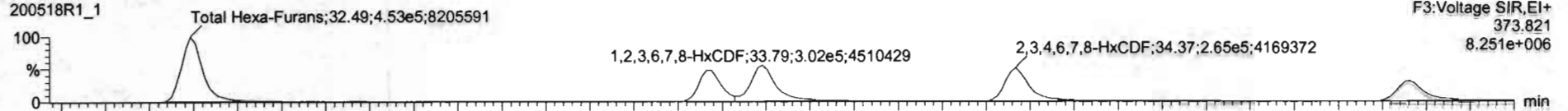
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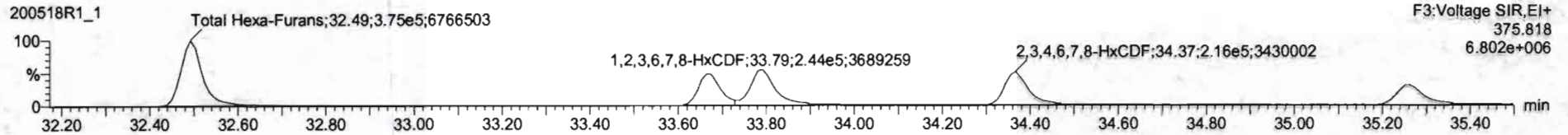
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**1,2,3,4,7,8-HxCDF**

200518R1\_1

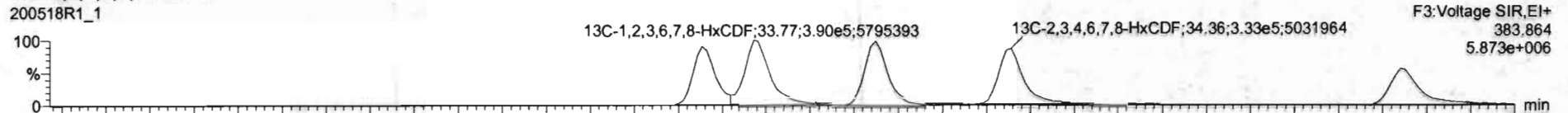


200518R1\_1

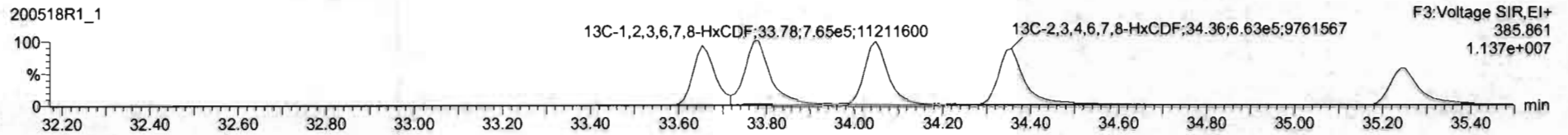


**13C-1,2,3,4,7,8-HxCDF**

200518R1\_1

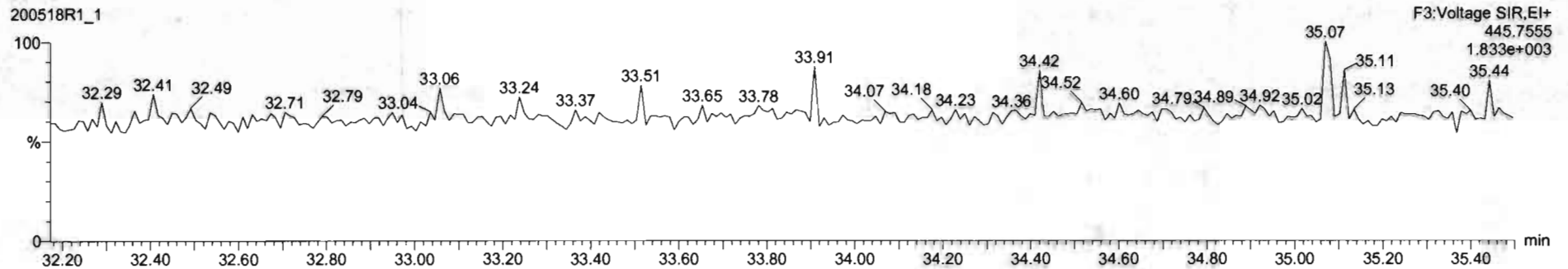


200518R1\_1

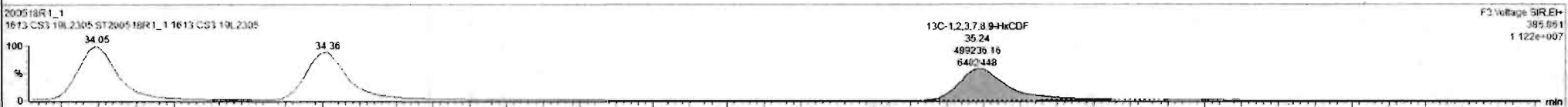
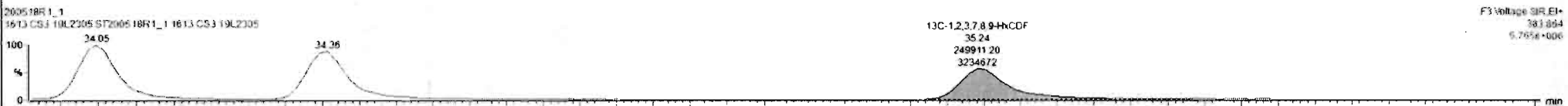
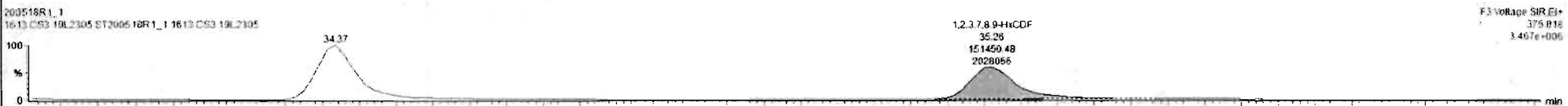
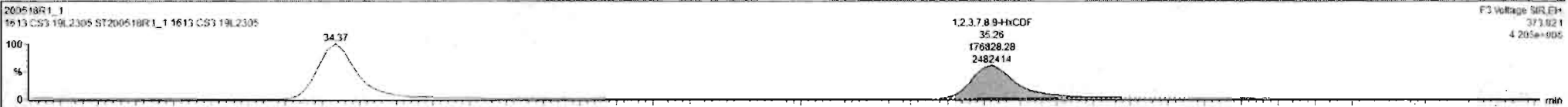


**DPE3**

200518R1\_1



#	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	1.39e5	1.46e5	0.77	0.79	NO	0.9475	26.10	26.09	NO	1.001	1.001	18.0	100	NO
2	1,2,3,7,8-PeCDD	4.85e5	1.02e6	6.63	0.20	NO	0.9425	31.16	31.17	NO	1.001	1.001	48.2	96.4	NO
3	1,2,3,4,7,8-HxCDD	3.36e5	6.67e5	1.24	1.24	NO	1.0641	34.53	34.53	NO	1.000	1.000	47.4	94.6	NO
4	1,2,3,6,7,8-HxCDD	4.30e5	1.03e6	1.24	1.24	NO	0.9145	34.62	34.63	NO	1.000	1.000	45.6	91.7	NO
5	1,2,3,7,8,9-HxCDD	3.32e5	7.75e5	1.24	1.24	NO	0.9149	34.51	34.51	NO	1.000	1.000	46.9	93.6	NO
6	1,2,3,4,6,7,8-HpCDD	2.34e5	5.33e5	1.04	1.01	NO	0.8975	38.40	38.40	NO	1.000	1.000	46.9	97.7	NO
7	DLDD	4.69e5	1.02e6	0.89	0.87	NO	0.9335	41.38	41.39	NO	1.000	1.000	98.2	96.2	NO
8	2,3,7,8-TCDF	1.44e5	1.89e5	0.77	0.77	NO	0.7871	25.16	25.17	NO	1.001	1.001	9.66	96.8	NO
9	1,2,3,7,8-PeCDF	6.90e5	1.57e6	1.55	1.58	NO	0.9102	29.96	29.96	NO	1.001	1.001	48.5	97.0	NO
10	1,2,3,4,7,8-PeCDF	6.86e5	1.48e6	1.55	1.58	NO	0.9664	30.87	30.85	NO	1.001	1.000	48.1	96.1	NO
11	1,2,3,4,7,8-HxCDF	4.13e5	6.52e5	1.24	1.21	NO	0.8782	33.65	33.67	NO	1.000	1.001	52.7	105	NO
12	1,2,3,6,7,8-HxCDF	5.46e5	1.15e6	1.24	1.23	NO	0.8740	33.78	33.79	NO	1.000	1.001	54.1	108	NO
13	1,2,3,4,6,7,8-HxCDF	4.62e5	9.97e5	1.24	1.23	NO	0.9217	34.39	34.37	NO	1.001	1.000	52.4	105	NO
14	1,2,3,7,8,9-HxCDF	3.29e5	7.49e5	1.24	1.17	NO	0.8642	35.24	35.26	NO	1.000	1.001	50.7	101	NO
15	1,2,3,4,6,7,8-HpCDF	3.36e5	7.26e5	1.04	0.96	NO	0.8712	37.01	36.99	NO	1.001	1.000	53.0	106	NO
16	1,2,3,4,7,8,9-HpCDF	2.51e5	4.51e5	1.04	1.02	NO	1.0116	36.98	36.99	NO	1.000	1.000	55.1	110	NO
17	OCDF	5.57e5	1.33e6	0.89	0.88	NO	0.8021	41.56	41.57	NO	1.000	1.000	105	105	NO
18	12C-2,3,7,8-TCDD	1.46e6	1.27e6	0.77	0.78	NO	1.1556	26.06	26.07	NO	1.026	1.027	99.3	99.3	NO
19	13C-1,2,3,7,8-PeCDD	1.02e6	1.27e6	0.62	0.63	NO	0.8472	31.18	31.14	NO	1.227	1.226	95.2	95.2	NO





Dataset: Untitled

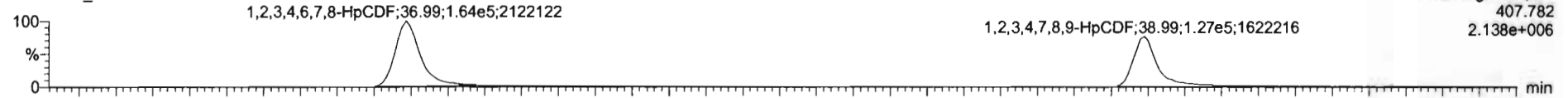
Last Altered: Monday, May 18, 2020 09:08:09 Pacific Daylight Time

Printed: Monday, May 18, 2020 09:09:33 Pacific Daylight Time

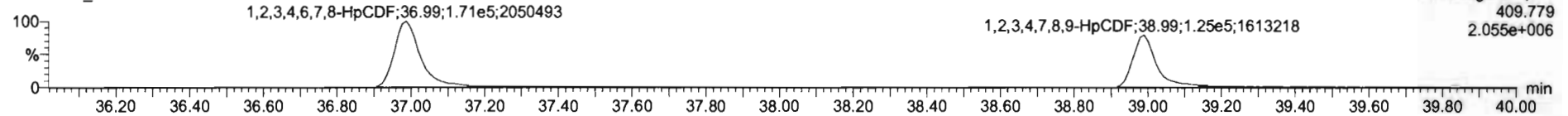
Name: 200518R1\_1, Date: 18-May-2020, Time: 08:21:51, ID: ST200518R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200518R1\_1

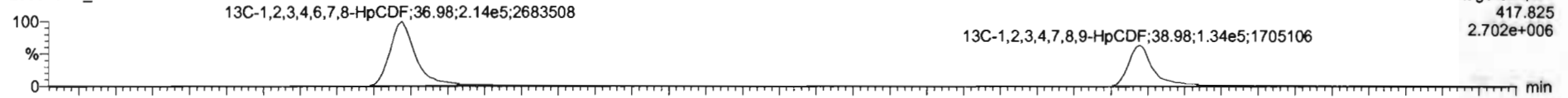


200518R1\_1

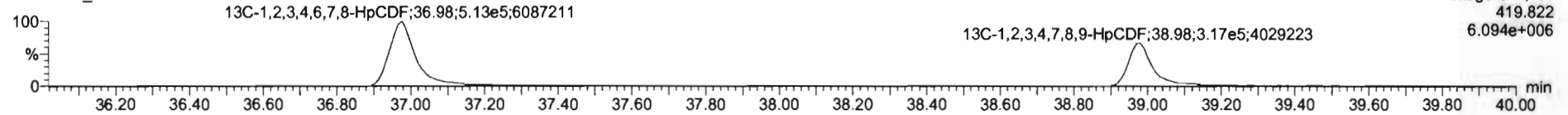


**13C-1,2,3,4,6,7,8-HpCDF**

200518R1\_1

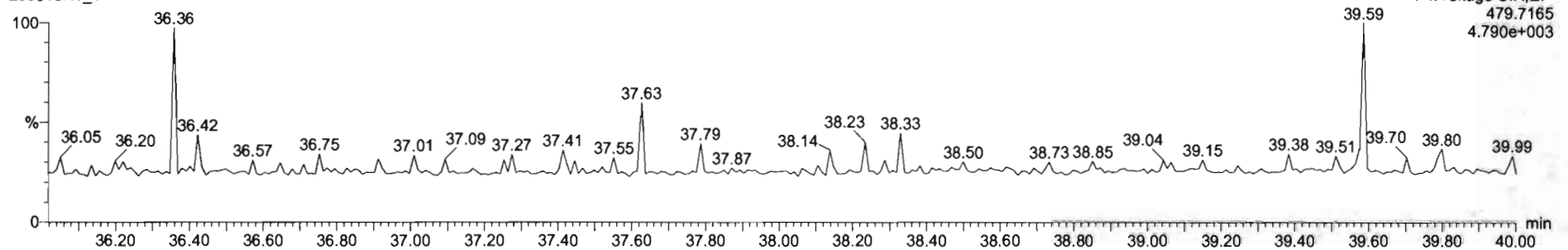


200518R1\_1

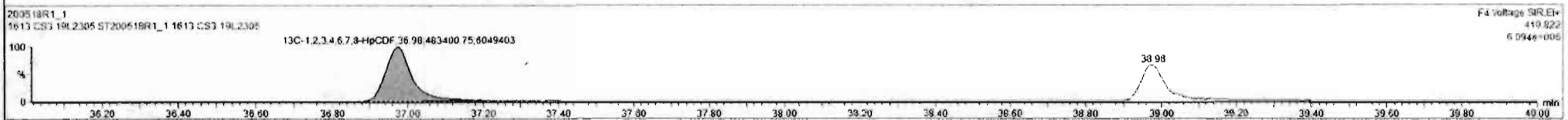
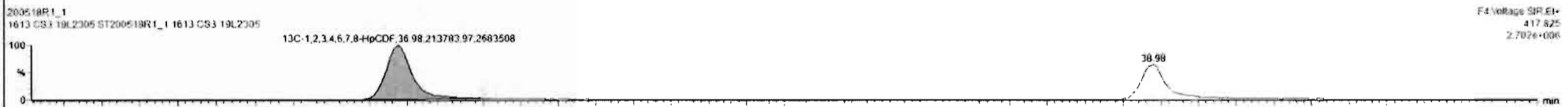
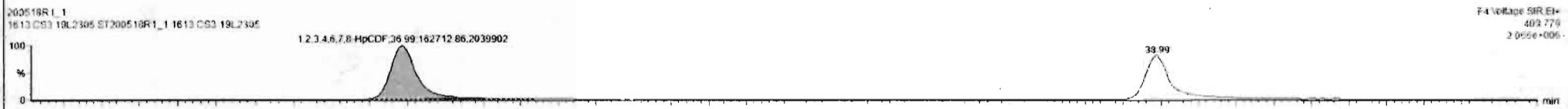
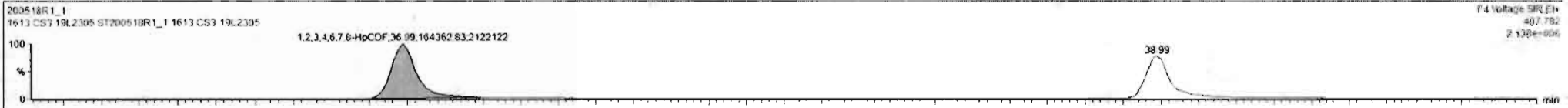


**DPE4**

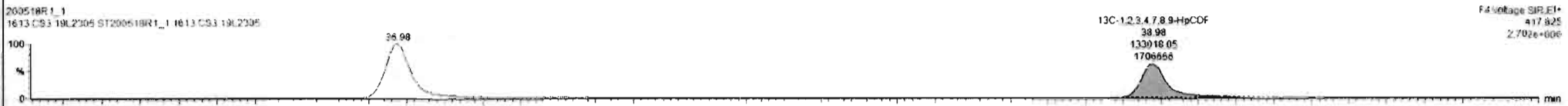
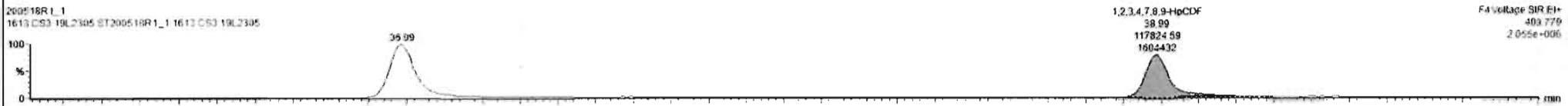
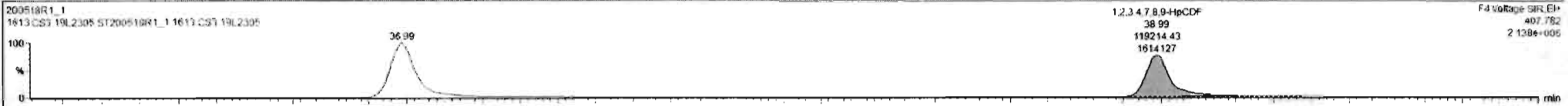
200518R1\_1



#	Name	Resp	S Resp	Pred RA	RA	nly	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	1.39e5	1.46e6	0.77	0.79	NO	0.9475	26.10	26.09	NO	1.001	1.001	10.0	100	NO
2	1,2,3,7,8-PeCDD	4.85e5	1.02e6	0.63	0.60	NO	0.9425	31.18	31.17	NO	1.001	1.001	48.2	96.4	NO
3	1,2,3,4,7,8-HxCDD	3.36e5	6.67e5	1.24	1.24	NO	1.0641	34.53	34.53	NO	1.000	1.000	47.4	94.6	NO
4	1,2,3,6,7,8-HxCDD	4.33e5	1.03e6	1.24	1.24	NO	0.9145	34.82	34.83	NO	1.000	1.000	45.8	91.7	NO
5	1,2,3,7,8,9-HxCDD	3.32e5	7.75e5	1.24	1.24	NO	0.9149	34.91	34.91	NO	1.000	1.000	46.8	93.6	NO
6	1,2,3,4,6,7,8-HpCDD	2.34e5	5.33e5	1.04	1.01	NO	0.9975	38.40	38.40	NO	1.000	1.000	48.6	97.7	NO
7	OCDD	4.69e5	1.02e6	0.89	0.87	NO	0.9335	41.38	41.39	NO	1.000	1.000	98.2	96.2	NO
8	1,2,3,7,8-TCDF	1.44e5	1.89e6	0.77	0.77	NO	0.7871	25.16	25.17	NO	1.001	1.001	9.86	96.8	NO
9	1,2,3,7,8-PeCDF	6.93e5	1.57e6	1.55	1.58	NO	0.9102	29.86	29.86	NO	1.001	1.001	48.5	97.0	NO
10	1,2,3,4,7,8-PeCDF	6.86e5	1.48e6	1.55	1.56	NO	0.9564	30.27	30.25	NO	1.001	1.000	48.1	96.1	NO
11	1,2,3,4,7,8-HxCDF	4.13e5	8.52e5	1.24	1.21	NO	0.8782	33.85	33.67	NO	1.000	1.001	52.7	105	NO
12	1,2,3,6,7,8-HxCDF	5.46e5	1.15e6	1.24	1.23	NO	0.8740	33.78	33.79	NO	1.000	1.001	54.1	108	NO
13	1,2,3,4,6,7,8-HxCDF	4.82e5	9.97e5	1.24	1.23	NO	0.9217	34.39	34.37	NO	1.001	1.000	52.4	105	NO
14	1,2,3,7,8,9-HxCDF	3.26e5	7.43e5	1.24	1.17	NO	0.8542	35.24	35.26	NO	1.000	1.001	50.7	101	NO
15	1,2,3,4,6,7,8-HpCDF	3.27e5	6.87e6	1.04	1.01	NO	0.8712	37.01	36.99	NO	1.001	1.000	53.0	106	NO
16	1,2,3,4,7,8,9-HpCDF	2.51e5	4.51e5	1.04	1.02	NO	1.0116	38.96	38.99	NO	1.000	1.000	55.1	110	NO
17	OCDF	5.57e5	1.33e6	0.89	0.88	NO	0.8021	41.56	41.57	NO	1.000	1.000	105	105	NO
18	13C-1,2,3,7,8-TCDD	1.46e6	1.27e6	0.77	0.78	NO	1.1595	26.06	26.07	NO	1.026	1.027	99.3	99.3	NO
19	13C-1,2,3,7,8-PeCDD	1.02e6	1.27e6	0.63	0.63	NO	0.8472	31.18	31.14	NO	1.227	1.226	95.2	95.2	NO



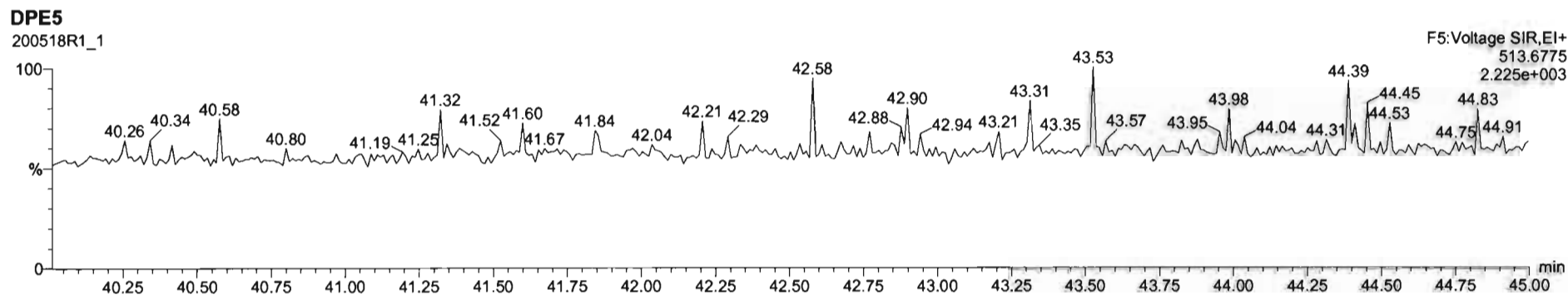
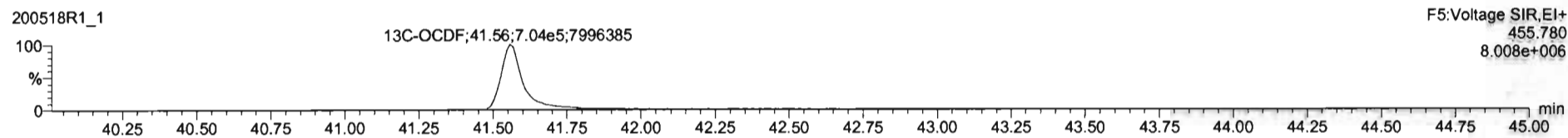
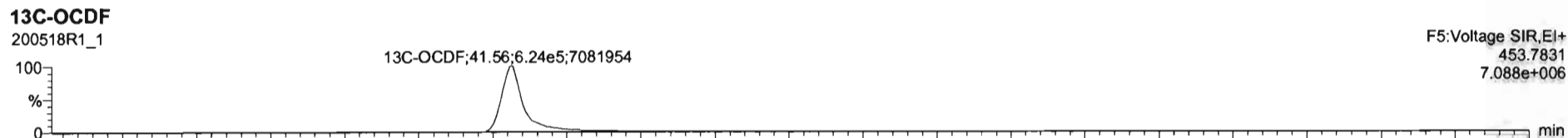
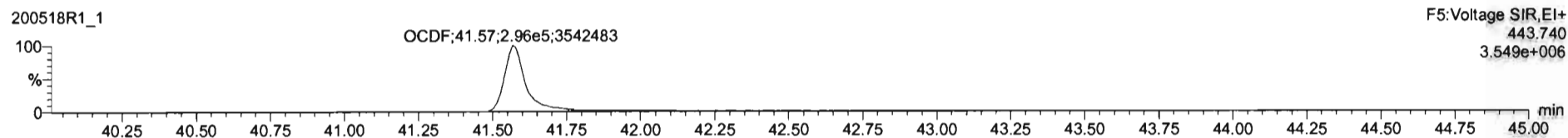
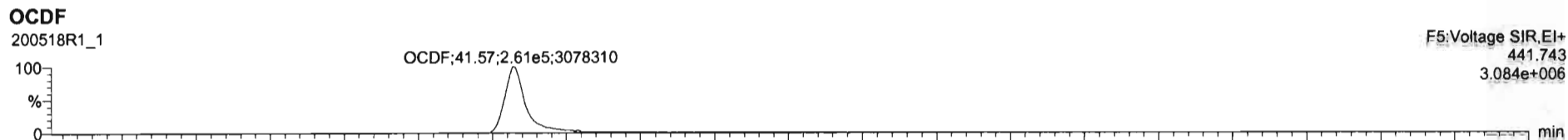
#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	1.70e5	1.46e5	0.77	0.79	NO	0.9475	26.10	26.09	NO	1.001	1.001	10.0	100	NO
2	1,2,3,7,8-PeCDD	4.65e5	1.02e5	0.63	0.50	NO	0.9425	31.16	31.17	NO	1.001	1.001	48.2	96.4	NO
3	1,2,3,4,7,8-HxCDD	3.26e5	6.67e5	1.24	1.24	NO	1.0641	34.53	34.53	NO	1.000	1.000	47.4	94.8	NO
4	1,2,3,6,7,8-HxCDD	4.33e5	1.03e6	1.24	1.24	NO	0.9145	34.62	34.63	NO	1.000	1.000	45.8	91.7	NO
5	1,2,3,7,8,9-HxCDD	3.32e5	7.75e5	1.24	1.24	NO	0.9140	34.61	34.61	NO	1.000	1.000	46.8	93.6	NO
6	1,2,3,4,6,7,8-HpCDD	2.34e5	5.33e5	1.04	1.01	NO	0.8975	36.40	36.40	NO	1.000	1.000	46.9	93.7	NO
7	OCDD	4.60e5	1.02e5	0.60	0.57	NO	0.9335	41.35	41.39	NO	1.000	1.000	98.2	98.2	NO
8	2,3,7,8-TCDF	1.44e5	1.89e5	0.77	0.77	NO	0.7571	25.16	25.17	NO	1.001	1.001	9.66	96.8	NO
9	1,2,3,7,8-PeCDF	6.93e5	1.57e5	1.55	1.58	NO	0.9102	29.96	29.96	NO	1.001	1.001	48.5	97.0	NO
10	1,2,3,4,7,8-PeCDF	6.95e5	1.48e5	1.55	1.55	NO	0.9564	30.87	30.85	NO	1.001	1.000	48.1	96.1	NO
11	1,2,3,4,7,8-HxCDF	4.13e5	8.52e5	1.24	1.21	NO	0.8782	33.85	33.67	NO	1.000	1.001	52.7	105	NO
12	1,2,3,6,7,8-HxCDF	5.46e5	1.15e5	1.24	1.23	NO	0.8740	33.78	33.76	NO	1.000	1.001	54.1	108	NO
13	1,2,3,4,6,7,8-HxCDF	4.02e5	9.97e5	1.24	1.23	NO	0.9217	34.39	34.37	NO	1.001	1.000	52.4	105	NO
14	1,2,3,7,8,9-HxCDF	3.28e5	7.49e5	1.24	1.17	NO	0.8542	35.24	35.26	NO	1.000	1.001	50.7	101	NO
15	1,2,3,4,6,7,8-HpCDF	3.27e5	6.97e5	1.04	1.01	NO	0.8712	37.01	36.99	NO	1.001	1.000	53.8	108	NO
16	1,2,3,4,7,8,9-HpCDF	2.37e5	4.49e5	1.04	1.01	NO	1.0116	38.96	38.96	NO	1.000	1.000	52.1	104	NO
17	OCDF	5.57e5	1.33e5	0.66	0.66	NO	0.8021	41.56	41.57	NO	1.000	1.000	105	105	NO
18	13C-2,3,7,8-TCDD	1.46e6	1.27e6	0.77	0.78	NO	1.1595	26.06	26.07	NO	1.026	1.027	99.3	99.3	NO
19	13C-1,2,3,7,8-PeCDD	1.02e6	1.27e6	0.63	0.63	NO	0.8472	31.16	31.14	NO	1.227	1.228	95.2	95.2	NO



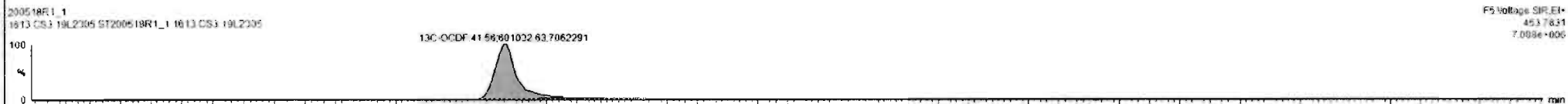
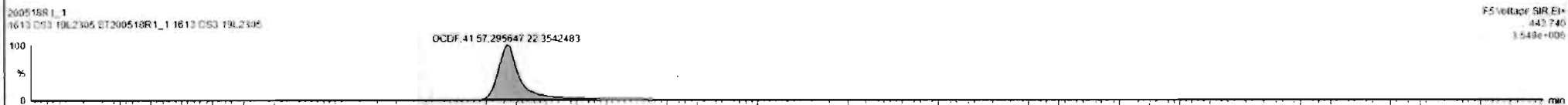
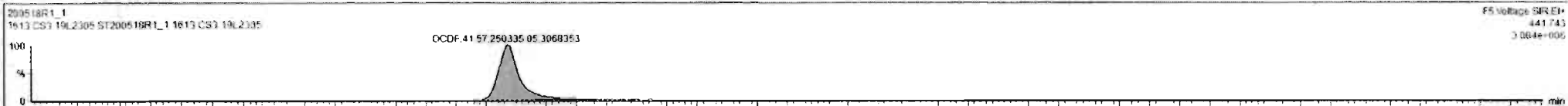
Dataset: Untitled

Last Altered: Monday, May 18, 2020 09:08:09 Pacific Daylight Time  
Printed: Monday, May 18, 2020 09:09:33 Pacific Daylight Time

Name: 200518R1\_1, Date: 18-May-2020, Time: 08:21:51, ID: ST200518R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



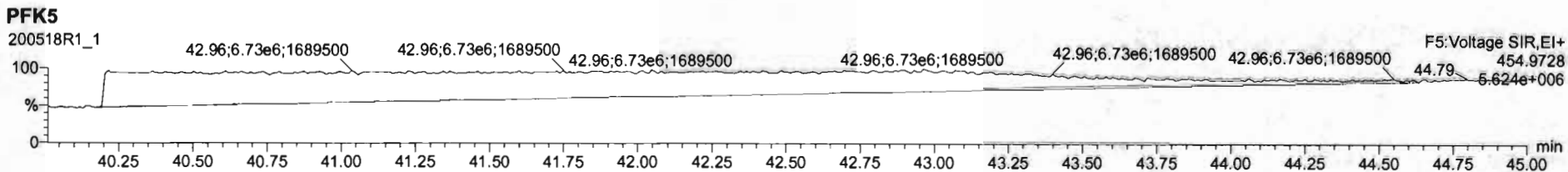
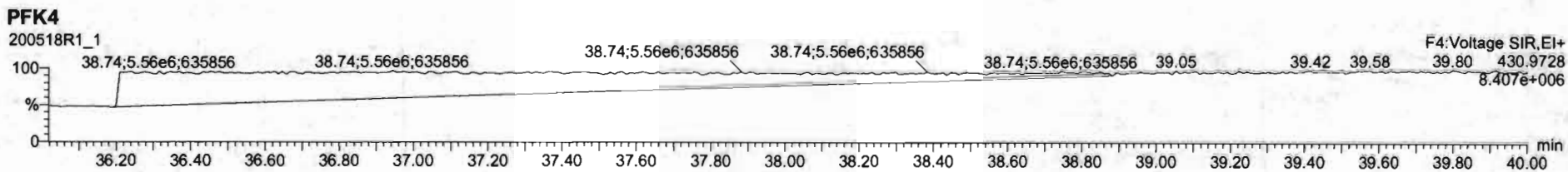
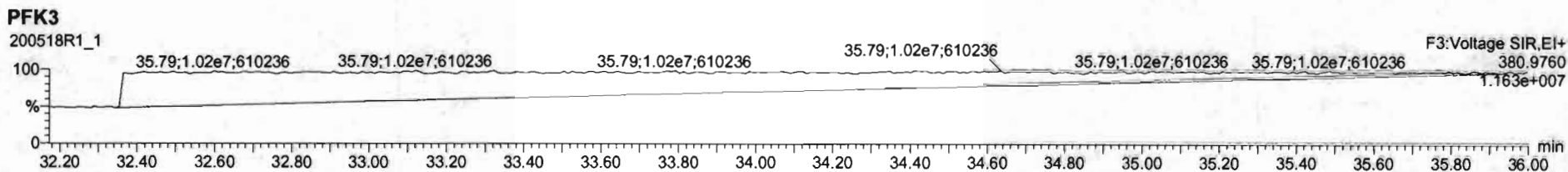
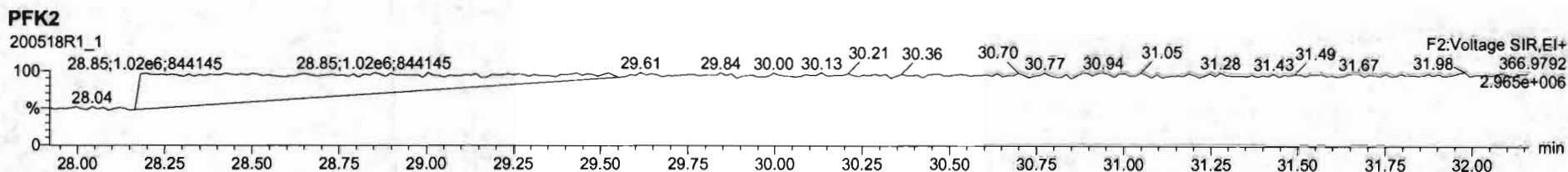
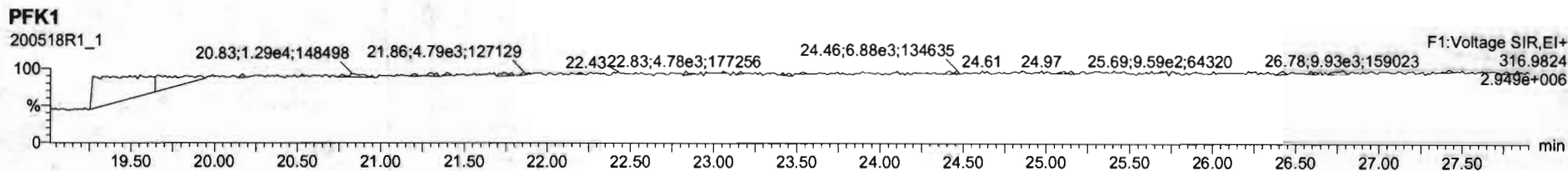
#	Name	Resp	IS Resp	Pred RA	RA	nHy	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	2,3,7,8-TCDD	1.38e5	1.46e5	0.77	0.79	NO	0.9475	26.10	26.09	NO	1.001	1.001	10.0	100	NO
2	1,2,3,7,8-PeCDD	4.66e5	1.02e5	0.63	0.50	NO	0.9425	31.16	31.17	NO	1.001	1.001	48.2	96.4	NO
3	1,2,3,4,7,8-HxCDD	3.36e5	6.67e5	1.24	1.24	NO	1.0641	34.53	34.53	NO	1.000	1.000	-17.4	94.6	NO
4	1,2,3,6,7,8-HxCDD	4.33e5	1.03e5	1.24	1.24	NO	0.9145	34.42	34.63	NO	1.000	1.000	45.8	91.7	NO
5	1,2,3,7,8,9-HxCDD	3.32e5	7.75e5	1.24	1.24	NO	0.9149	34.91	34.91	NO	1.000	1.000	46.8	93.6	NO
6	1,2,3,4,6,7,8-HpCDD	2.34e5	6.33e5	1.04	1.01	NO	0.9975	38.40	38.40	NO	1.000	1.000	48.9	97.7	NO
7	OCDD	4.69e5	1.02e5	0.89	0.87	NO	0.9355	41.38	41.39	NO	1.000	1.000	98.2	98.2	NO
8	2,3,7,8-TCDF	1.44e5	1.89e5	0.77	0.77	NO	0.7871	25.16	25.17	NO	1.001	1.001	9.66	96.8	NO
9	1,2,3,7,8-PeCDF	6.93e5	1.57e5	1.55	1.58	NO	0.9162	29.86	29.86	NO	1.001	1.001	48.5	97.0	NO
10	2,3,4,7,8-PeCDF	6.95e5	1.48e5	1.55	1.56	NO	0.9664	30.87	30.85	NO	1.001	1.000	48.1	96.1	NO
11	1,2,3,4,7,8-HxCDF	4.13e5	6.52e5	1.24	1.21	NO	0.8782	33.65	33.67	NO	1.000	1.001	52.7	105	NO
12	1,2,3,6,7,8-HxCDF	5.46e5	1.15e5	1.24	1.23	NO	0.8740	33.78	33.79	NO	1.000	1.001	54.1	108	NO
13	2,3,4,6,7,8-HxCDF	4.62e5	9.97e5	1.24	1.23	NO	0.9217	34.39	34.37	NO	1.001	1.000	52.4	105	NO
14	1,2,3,7,8,9-HxCDF	3.26e5	7.49e5	1.24	1.17	NO	0.8542	35.24	35.26	NO	1.000	1.001	50.7	101	NO
15	1,2,3,4,6,7,8-HpCDF	3.27e5	6.57e5	1.04	1.01	NO	0.8712	37.01	36.99	NO	1.001	1.000	53.8	108	NO
16	1,2,3,4,7,8,9-HpCDF	2.37e5	4.49e5	1.04	1.01	NO	1.0115	38.98	38.98	NO	1.000	1.000	52.1	104	NO
17	OCDF	3.40e5	1.22e5	0.89	0.85	NO	0.6921	41.56	41.57	NO	1.000	1.000	107	107	NO
18	13C-2,3,7,8-TCDD	1.46e6	1.27e5	0.77	0.78	NO	1.1595	26.06	26.07	NO	1.026	1.027	99.3	99.3	NO
19	13C-1,2,3,7,8-PeCDD	1.02e6	1.27e5	0.63	0.63	NO	0.8472	31.16	31.14	NO	1.227	1.226	95.2	95.2	NO



Dataset: Untitled

Last Altered: Monday, May 18, 2020 09:08:09 Pacific Daylight Time  
Printed: Monday, May 18, 2020 09:09:33 Pacific Daylight Time

Name: 200518R1\_1, Date: 18-May-2020, Time: 08:21:51, ID: ST200518R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



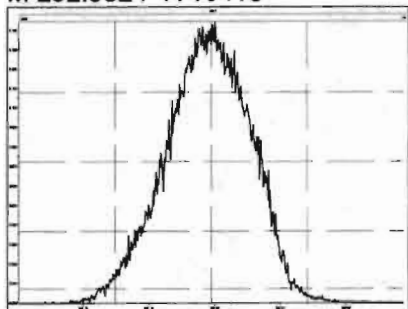
Experiment Calibration Report

MassLynx 4.1 SCN815

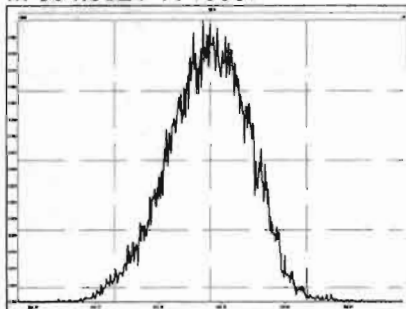
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Monday, May 18, 2020 13:53:01 Pacific Daylight Time

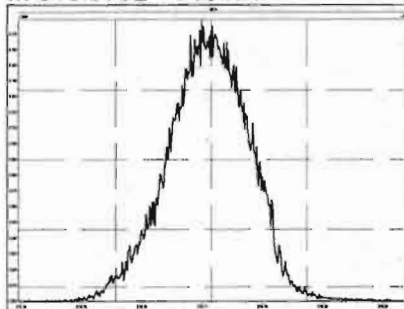
M 292.9824 R 10416



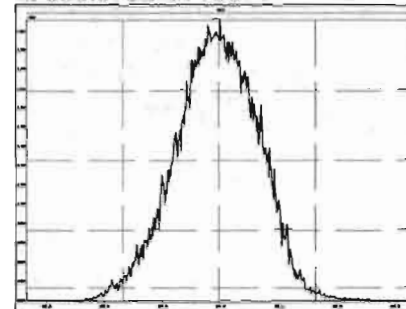
M 304.9824 R 10037



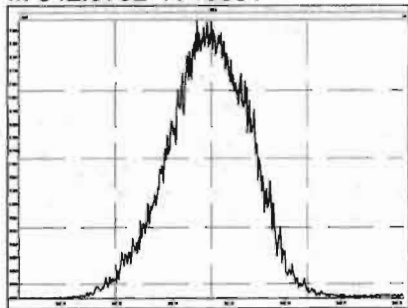
M 318.9792 R 10081



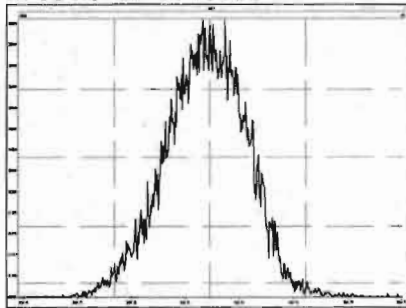
M 330.9792 R 10371



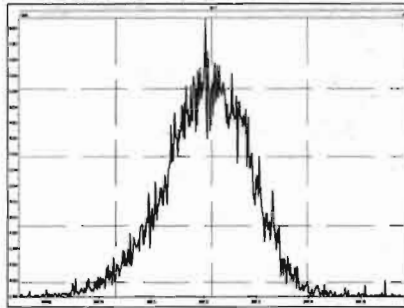
M 342.9792 R 10331



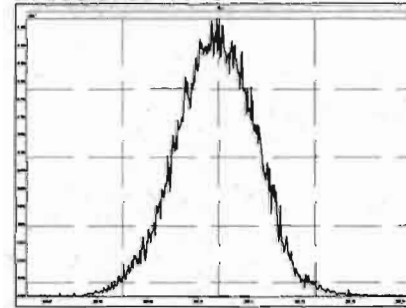
M 354.9792 R 10503



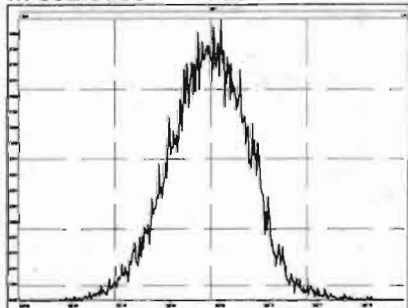
M 366.9792 R 10077



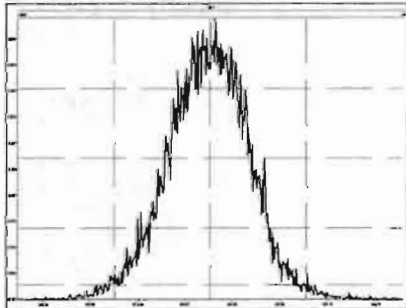
M 380.9760 R 10775



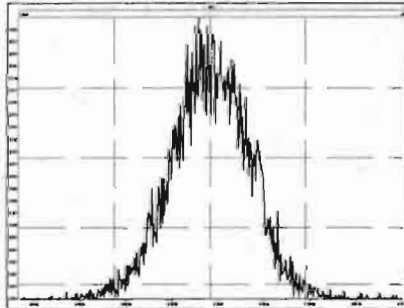
M 392.9760 R 10502



M 404.9760 R 10080



M 416.9760 R 11362



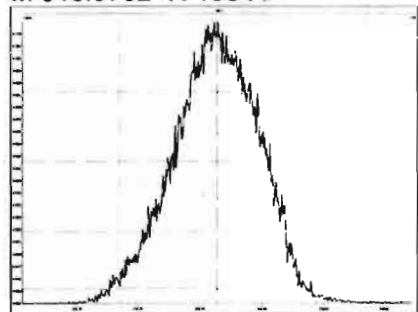
Experiment Calibration Report

MassLynx 4.1 SCN815

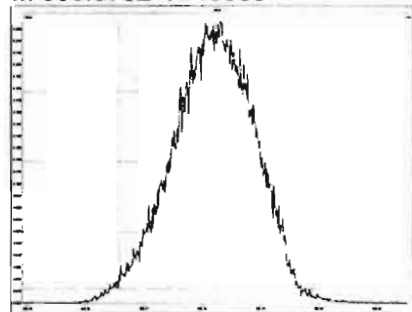
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Monday, May 18, 2020 13:55:03 Pacific Daylight Time

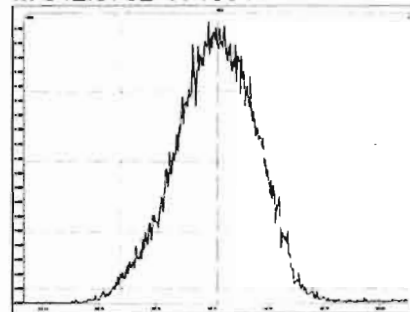
M 318.9792 R 10041



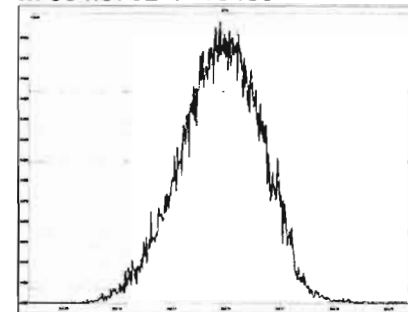
M 330.9792 R 10039



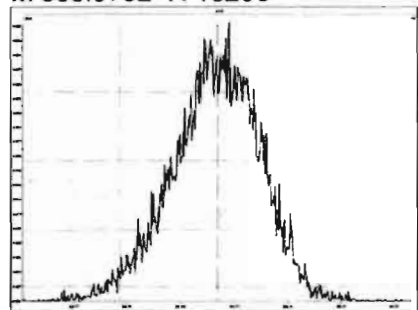
M 342.9792 R 10041



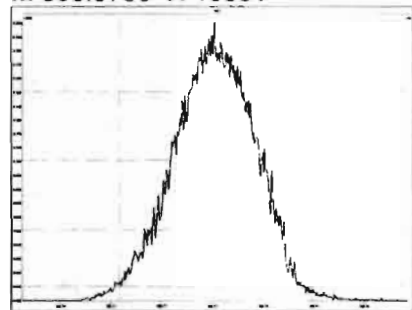
M 354.9792 R 10460



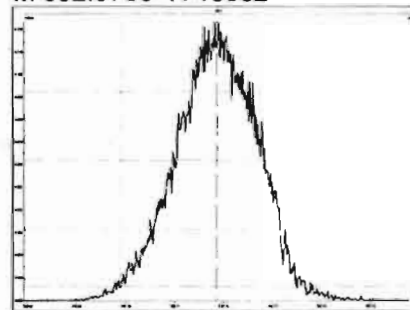
M 366.9792 R 10290



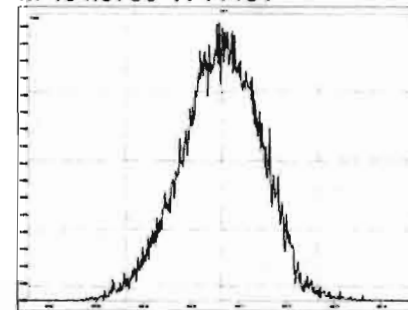
M 380.9760 R 10081



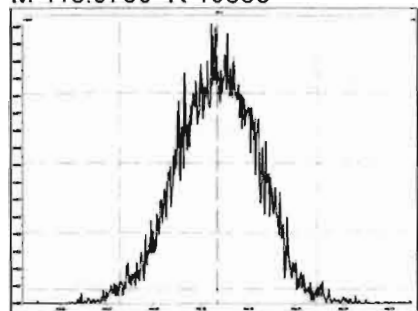
M 392.9760 R 10682



M 404.9760 R 11161



M 416.9760 R 10868





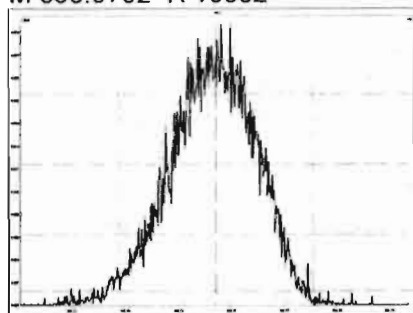
Experiment Calibration Report

MassLynx 4.1 SCN815

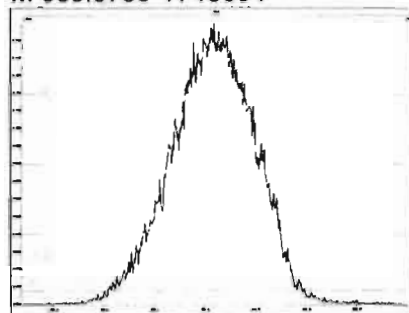
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Monday, May 18, 2020 13:57:22 Pacific Daylight Time

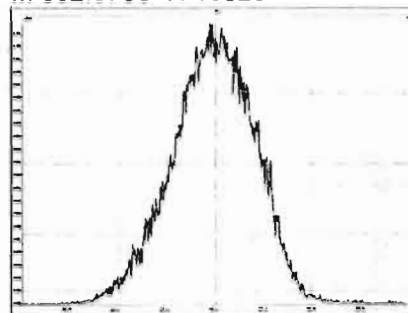
M 366.9792 R 10002



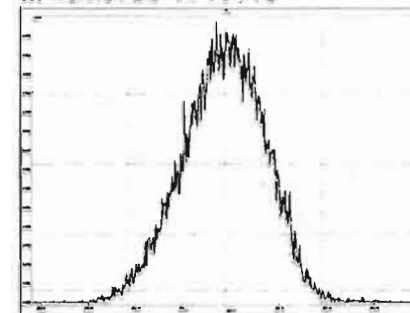
M 380.9760 R 10594



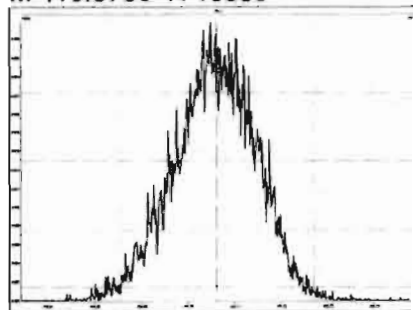
M 392.9760 R 10329



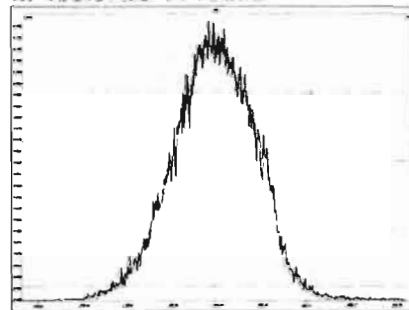
M 404.9760 R 10118



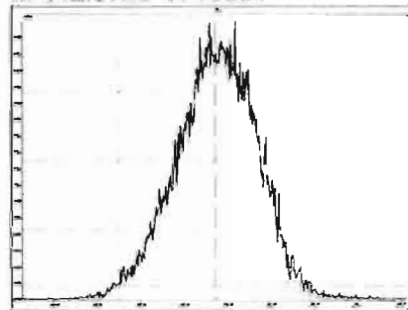
M 416.9760 R 10683



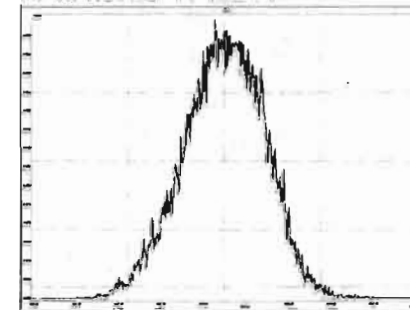
M 430.9728 R 10375



M 442.9728 R 10081



M 454.9728 R 10244



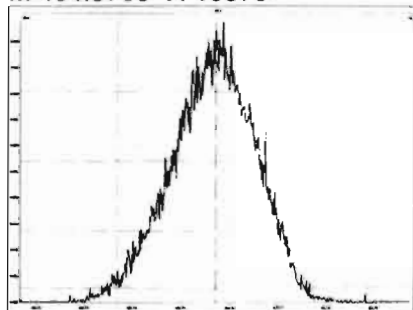
Experiment Calibration Report

MassLynx 4.1 SCN815

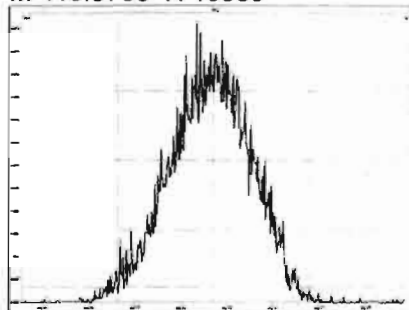
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Monday, May 18, 2020 13:58:12 Pacific Daylight Time

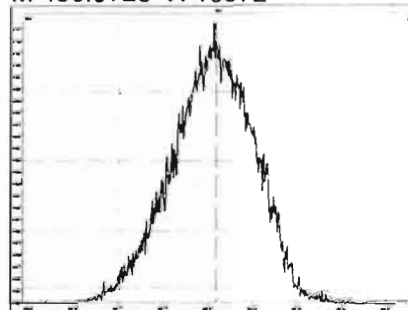
M 404.9760 R 10079



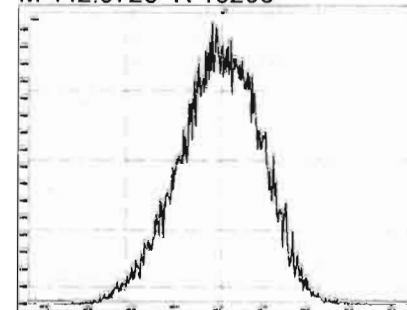
M 416.9760 R 10639



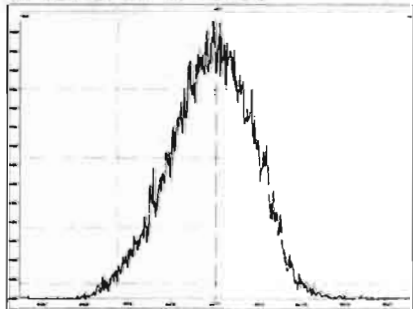
M 430.9728 R 10372



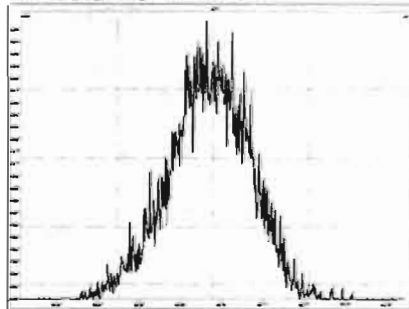
M 442.9728 R 10205



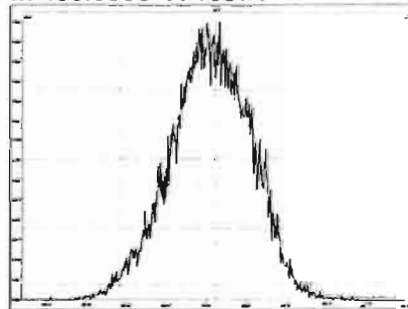
M 454.9728 R 10460



M 466.9728 R 10777



M 480.9696 R 10374



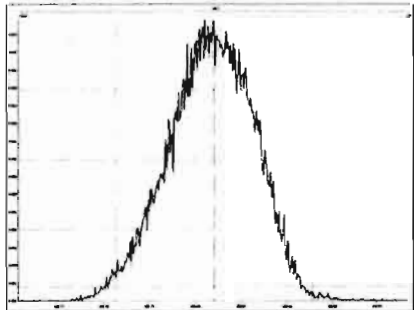
Experiment Calibration Report

MassLynx 4.1 SCN815

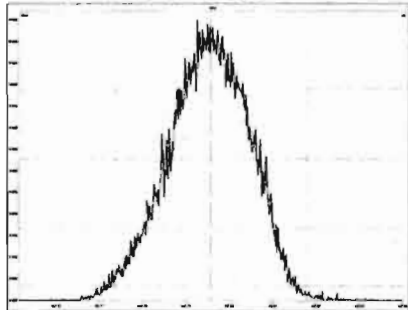
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Monday, May 18, 2020 13:59:11 Pacific Daylight Time

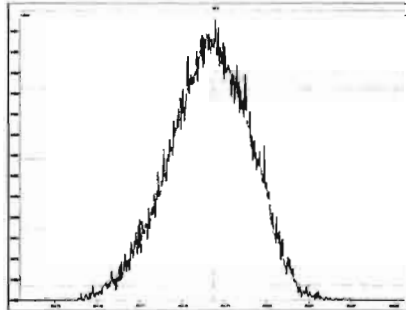
M 430.9728 R 10247



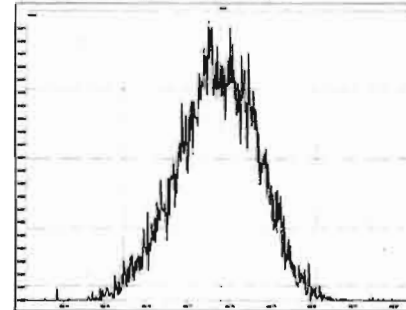
M 442.9728 R 10203



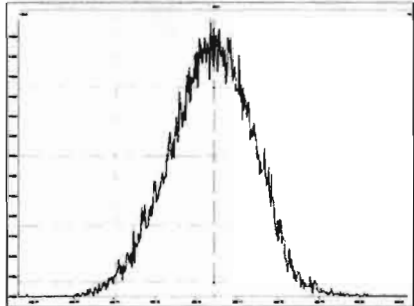
M 454.9728 R 10546



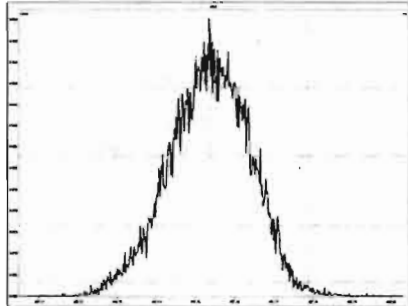
M 466.9728 R 10504



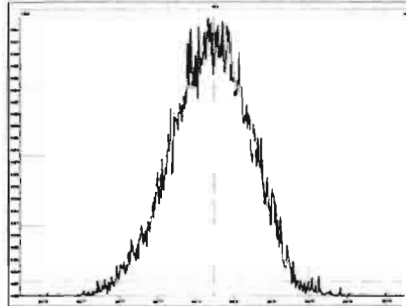
M 480.9696 R 10244



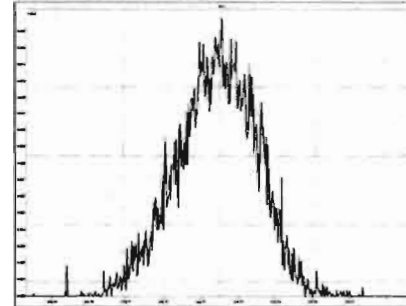
M 492.9696 R 10594



M 504.9696 R 10822



M 516.9697 R 10871



Dataset: U:\VG12.PRO\Results\200518R2\200518R2-2.qld

Last Altered: Monday, May 18, 2020 15:37:05 Pacific Daylight Time  
Printed: Monday, May 18, 2020 15:37:20 Pacific Daylight Time

*GPB 05/18/2020*

*CTW/19/2020*

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200518R2\_2, Date: 18-May-2020, Time: 14:46:59, ID: ST200518R2\_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	1.54e5	1.73e6	0.76	NO	0.947	26.07	26.05	NO	1.001	1.001	9.4118	94.1	NO
2	2 1,2,3,7,8-PeCDD	5.75e5	1.33e6	0.62	NO	0.942	31.13	31.14	NO	1.001	1.001	45.791	91.6	NO
3	3 1,2,3,4,7,8-HxCDD	4.82e5	9.02e5	1.23	NO	1.06	34.51	34.51	NO	1.000	1.000	50.254	101	NO
4	4 1,2,3,6,7,8-HxCDD	5.23e5	1.23e6	1.22	NO	0.915	34.60	34.61	NO	1.000	1.000	46.665	93.3	NO
5	5 1,2,3,7,8,9-HxCDD	4.62e5	1.05e6	1.24	NO	0.915	34.88	34.89	NO	1.000	1.001	48.148	96.3	NO
6	6 1,2,3,4,6,7,8-HpCDD	3.55e5	8.20e5	1.04	NO	0.898	38.38	38.39	NO	1.000	1.001	48.222	96.4	NO
7	7 OCDD	6.77e5	1.48e6	0.88	NO	0.933	41.35	41.36	NO	1.000	1.000	98.196	98.2	NO
8	8 2,3,7,8-TCDF	1.74e5	2.26e6	0.74	NO	0.787	25.12	25.12	NO	1.001	1.001	9.7799	97.8	NO
9	9 1,2,3,7,8-PeCDF	8.38e5	1.89e6	1.55	NO	0.910	29.82	29.81	NO	1.001	1.001	48.623	97.2	NO
10	10 2,3,4,7,8-PeCDF	8.55e5	1.84e6	1.54	NO	0.966	30.84	30.82	NO	1.001	1.000	48.051	96.1	NO
11	11 1,2,3,4,7,8-HxCDF	5.76e5	1.22e6	1.21	NO	0.878	33.63	33.64	NO	1.000	1.000	53.959	108	NO
12	12 1,2,3,6,7,8-HxCDF	6.58e5	1.44e6	1.21	NO	0.874	33.76	33.76	NO	1.000	1.000	52.309	105	NO
13	13 2,3,4,6,7,8-HxCDF	6.16e5	1.27e6	1.22	NO	0.922	34.36	34.33	NO	1.001	1.000	52.850	106	NO
14	14 1,2,3,7,8,9-HxCDF	4.66e5	1.03e6	1.24	NO	0.864	35.22	35.23	NO	1.000	1.000	52.428	105	NO
15	15 1,2,3,4,6,7,8-HpCDF	4.49e5	9.70e5	1.01	NO	0.871	36.98	36.97	NO	1.001	1.001	53.131	106	NO
16	16 1,2,3,4,7,8,9-HpCDF	3.47e5	6.34e5	0.98	NO	1.01	38.96	38.97	NO	1.000	1.000	54.091	108	NO
17	17 OCDF	7.32e5	1.75e6	0.87	NO	0.802	41.53	41.56	NO	1.000	1.001	104.54	105	NO
18	18 13C-2,3,7,8-TCDD	1.73e6	1.47e6	0.78	NO	1.16	26.02	26.03	NO	1.026	1.027	101.21	101	NO
19	19 13C-1,2,3,7,8-PeCDD	1.33e6	1.47e6	0.63	NO	0.847	31.10	31.11	NO	1.227	1.227	107.06	107	NO
20	20 13C-1,2,3,4,7,8-HxCDD	9.02e5	1.27e6	1.28	NO	0.750	34.50	34.49	NO	1.014	1.014	94.701	94.7	NO
21	21 13C-1,2,3,6,7,8-HxCDD	1.23e6	1.27e6	1.27	NO	0.963	34.61	34.60	NO	1.017	1.017	100.27	100	NO
22	22 13C-1,2,3,7,8,9-HxCDD	1.05e6	1.27e6	1.26	NO	0.838	34.88	34.87	NO	1.025	1.025	98.603	98.6	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	8.20e5	1.27e6	1.04	NO	0.641	38.37	38.37	NO	1.128	1.128	100.74	101	NO
24	24 13C-OCDD	1.48e6	1.27e6	0.90	NO	0.586	41.36	41.35	NO	1.216	1.216	198.45	99.2	NO
25	25 13C-2,3,7,8-TCDF	2.26e6	2.12e6	0.78	NO	1.03	25.07	25.09	NO	0.989	0.990	103.25	103	NO
26	26 13C-1,2,3,7,8-PeCDF	1.89e6	2.12e6	1.57	NO	0.845	29.79	29.80	NO	1.176	1.176	105.88	106	NO
27	27 13C-2,3,4,7,8-PeCDF	1.84e6	2.12e6	1.59	NO	0.814	30.79	30.81	NO	1.215	1.215	106.88	107	NO
28	28 13C-1,2,3,4,7,8-HxCDF	1.22e6	1.27e6	0.51	NO	1.00	33.64	33.63	NO	0.989	0.989	95.255	95.3	NO
29	29 13C-1,2,3,6,7,8-HxCDF	1.44e6	1.27e6	0.51	NO	1.14	33.76	33.75	NO	0.992	0.992	99.709	99.7	NO
30	30 13C-2,3,4,6,7,8-HxCDF	1.27e6	1.27e6	0.51	NO	1.02	34.33	34.33	NO	1.009	1.009	97.476	97.5	NO
31	31 13C-1,2,3,7,8,9-HxCDF	1.03e6	1.27e6	0.51	NO	0.845	35.22	35.22	NO	1.035	1.035	95.978	96.0	NO

Dataset: U:\VG12.PRO\Results\200518R2\200518R2-2.qld

Last Altered: Monday, May 18, 2020 15:37:05 Pacific Daylight Time

Printed: Monday, May 18, 2020 15:37:20 Pacific Daylight Time

Sample ID: ST200518R2\_2, Name: 200518R2\_2, Date: 18-May-2020, Time: 14:46:59, ID: ST200518R2\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	32 13C-1,2,3,4,6,7,8-HpCDF	9.70e5	1.27e6	0.44	NO	0.771	36.95	36.94	NO	1.086	1.086	99.100	99.1	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	6.34e5	1.27e6	0.44	NO	0.482	38.96	38.96	NO	1.145	1.145	103.53	104	NO
34	34 13C-OCDF	1.75e6	1.27e6	0.90	NO	0.669	41.53	41.53	NO	1.221	1.221	205.78	103	NO
35	35 37Cl-2,3,7,8-TCDD	1.61e5	1.47e6			1.10	26.05	26.05	NO	1.028	1.028	9.9794	99.8	NO
36	36 13C-1,2,3,4-TCDD	1.47e6	1.47e6	0.79	NO	1.00	25.35	25.35	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	2.12e6	2.12e6	0.79	NO	1.00	23.56	23.58	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	1.27e6	1.27e6	0.51	NO	1.00	34.00	34.02	NO	1.000	1.000	100.00	100	YES

Dataset: Untitled

Last Altered: Tuesday, May 19, 2020 07:23:54 Pacific Daylight Time  
Printed: Tuesday, May 19, 2020 07:24:09 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02  
Calibration: U:\VG12.PRO\CurveDB\1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

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

	Name	ID	Acq.Date	Acq.Time
1	200518R2_1	SOLVENT BLANK	18-May-20	14:00:16
2	200518R2_2	ST200518R2_1 1613 CS3 19L2305	18-May-20	14:46:59
3	200518R2_3	B0E0079-BS1 OPR 10	18-May-20	15:35:11
4	200518R2_4	SOLVENT BLANK	18-May-20	16:21:26
5	200518R2_5	B0E0079-BLK1 Method Blank 10	18-May-20	17:07:38
6	200518R2_6	2000950-06 PDI-156SC-A-04-05-200423 11.04	18-May-20	17:53:49
7	200518R2_7	2000950-07 PDI-156SC-A-05-06-200423 11.02	18-May-20	18:40:00
8	200518R2_8	2000950-08 PDI-156SC-A-06-07-200423 11.7	18-May-20	19:26:14
9	200518R2_9	2000950-09 PDI-156SC-A-07-08-200423 12.81	18-May-20	20:12:24
10	200518R2_10	2000950-10 PDI-158SC-A-00-01-200423 12.88	18-May-20	20:58:36
11	200518R2_11	2000950-11 PDI-158SC-A-01-02-200423 11.36	18-May-20	21:44:47
12	200518R2_12	2000950-12 PDI-158SC-A-02-03-200423 12.52	18-May-20	22:30:59
13	200518R2_13	2000950-13 PDI-158SC-A-03-04-200423 12.06	18-May-20	23:17:11
14	200518R2_14	2000953-02RE1 PDI-165SC-A-01-02-200426 ...	19-May-20	00:03:23
15	200518R2_15	2000953-03RE1 PDI-165SC-A-02-03-200426 ...	19-May-20	00:49:34
16	200518R2_16	2000951-03RE1 PDI-159SC-A-01-02-200423 ...	19-May-20	01:35:46
17	200518R2_17	2000933-03RE4 PDI-154SC-A-01-02-200422 ...	19-May-20	02:21:57

Dataset: Untitled

Last Altered: Monday, May 18, 2020 15:33:53 Pacific Daylight Time

Printed: Monday, May 18, 2020 15:34:18 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 08 Apr 2020 10:53:44

Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200518R2\_2, Date: 18-May-2020, Time: 14:46:59, ID: ST200518R2\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	21.87
2	2 1,2,8,9-TCDD (Last)	27.04
3	3 1,2,4,7,9-PeCDD (First)	28.88
4	4 1,2,3,8,9-PeCDD (Last)	31.52
5	5 1,2,4,6,7,9-HxCDD (First)	33.03
6	6 1,2,3,7,8,9-HxCDD (Last)	34.89
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.35
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.39
9	9 1,3,6,8-TCDF (First)	19.81
10	10 1,2,8,9-TCDF (Last)	27.19
11	11 1,3,4,6,8-PeCDF (First)	27.16
12	12 1,2,3,8,9-PeCDF (Last)	31.77
13	13 1,2,3,4,6,8-HxCDF (First)	32.47
14	14 1,2,3,7,8,9-HxCDF (Last)	35.23
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.97
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.97

Dataset: Untitled

Last Altered: Monday, May 18, 2020 15:33:53 Pacific Daylight Time  
Printed: Monday, May 18, 2020 15:34:18 Pacific Daylight Time

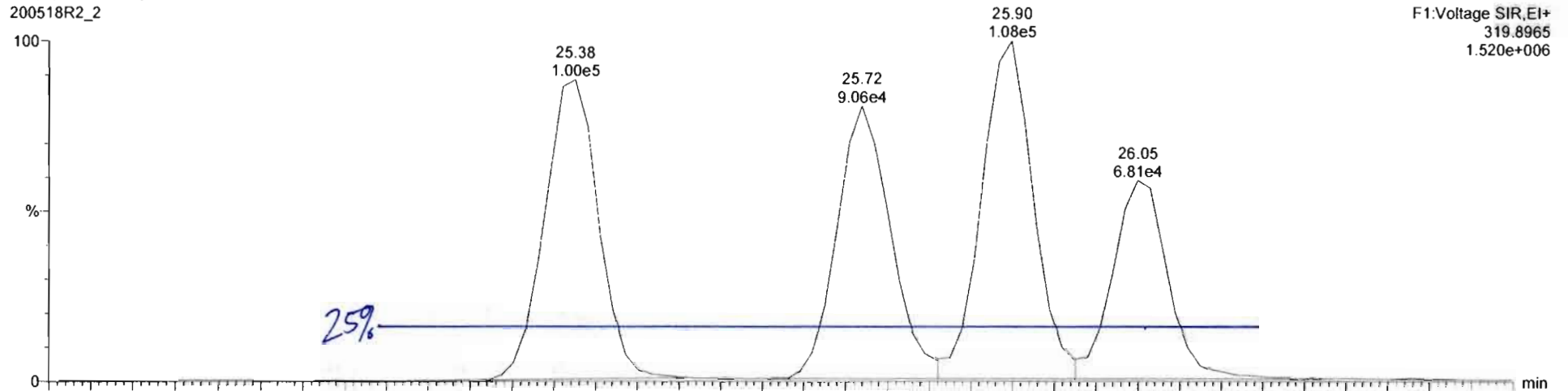
GRB 05/18/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 08 Apr 2020 10:53:44  
Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200518R2\_2, Date: 18-May-2020, Time: 14:46:59, ID: ST200518R2\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

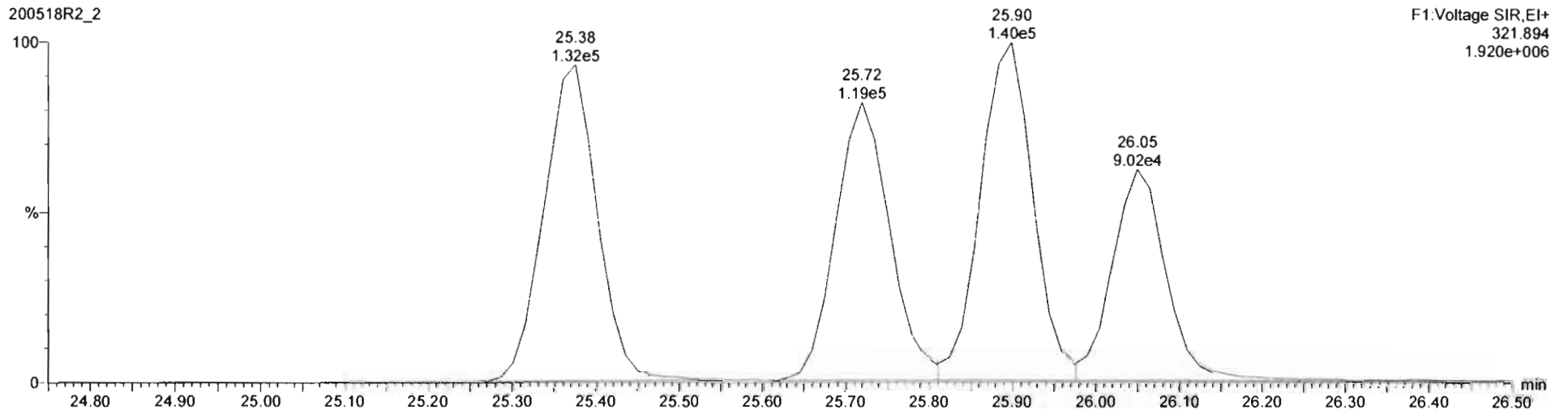
1,3,6,8-TCDD (First)

200518R2\_2



F1:Voltage SIR,EI+  
319.8965  
1.520e+006

200518R2\_2



F1:Voltage SIR,EI+  
321.894  
1.920e+006



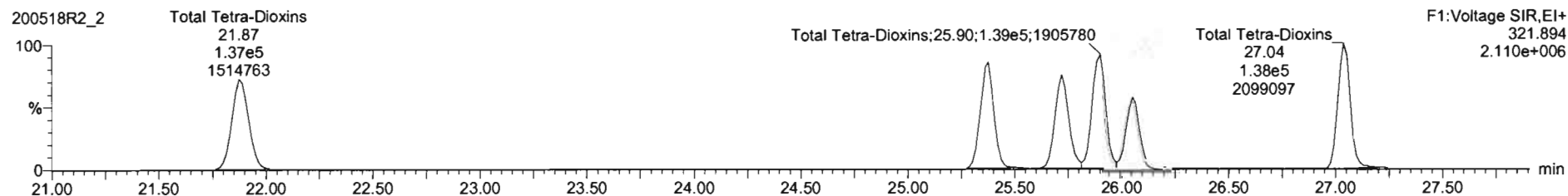
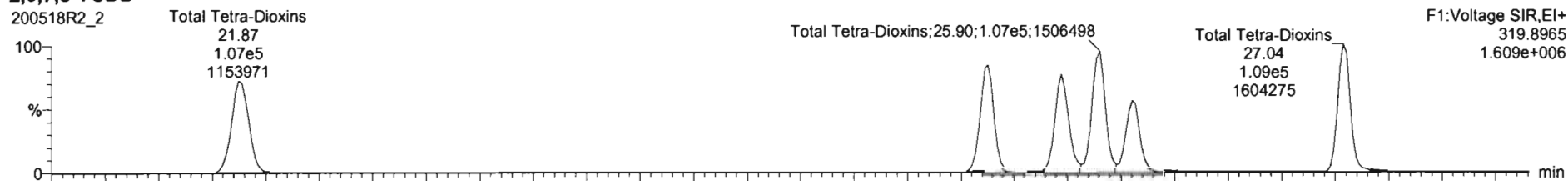
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Last Altered: Monday, May 18, 2020 15:34:39 Pacific Daylight Time  
Printed: Monday, May 18, 2020 15:34:42 Pacific Daylight Time

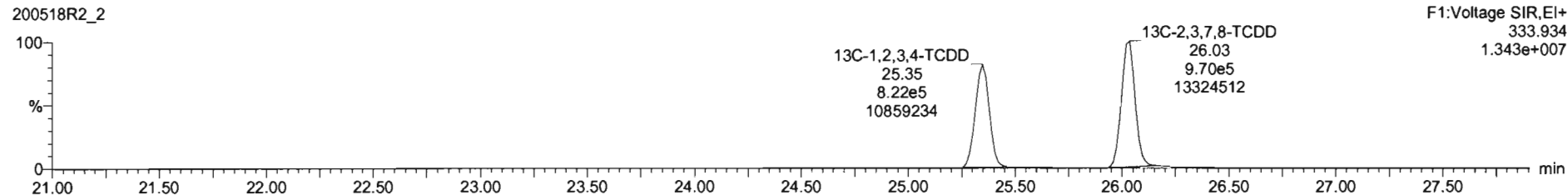
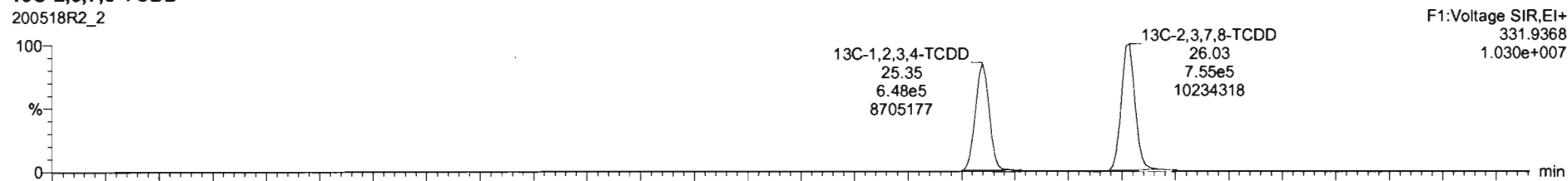
Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02  
Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200518R2\_2, Date: 18-May-2020, Time: 14:46:59, ID: ST200518R2\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD



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



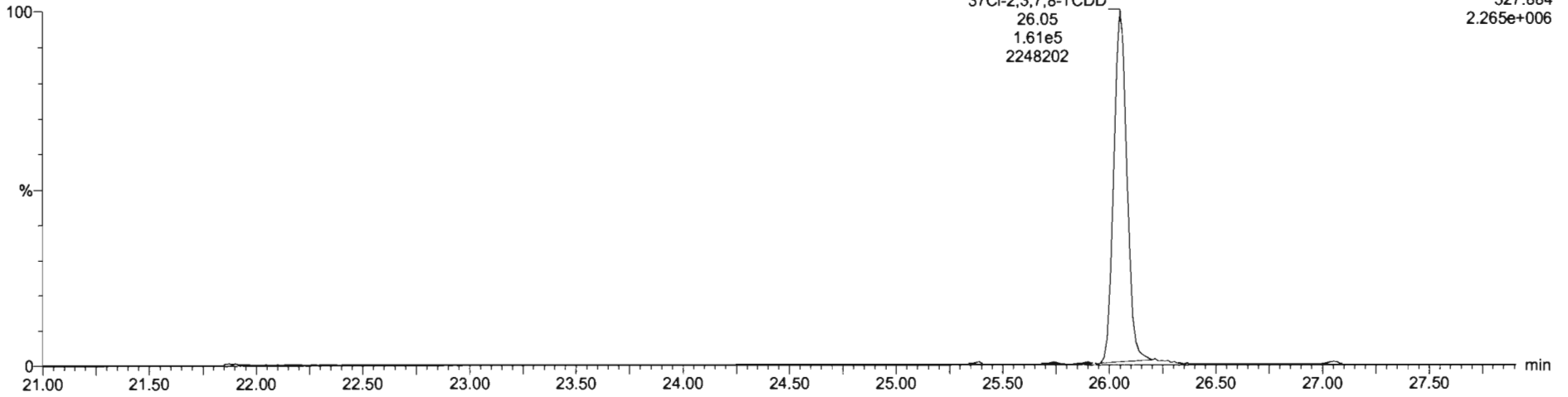
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Name: 200518R2\_2, Date: 18-May-2020, Time: 14:46:59, ID: ST200518R2\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

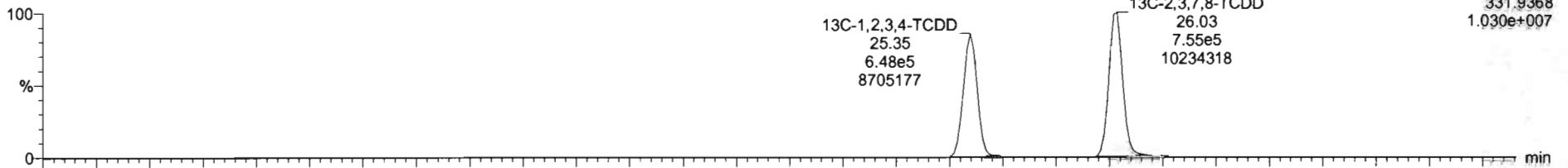
**37Cl-2,3,7,8-TCDD**

200518R2\_2

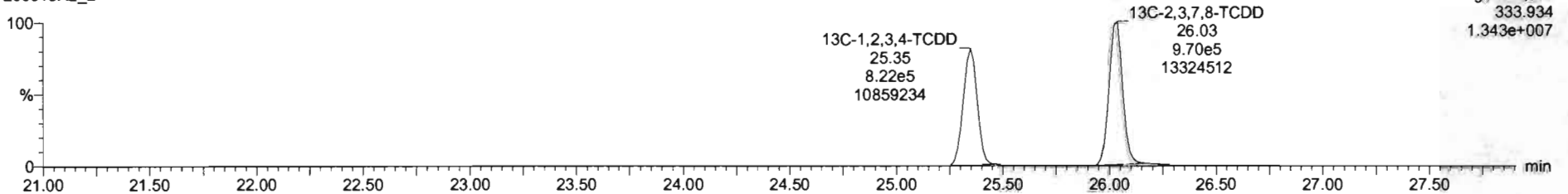


**13C-1,2,3,4-TCDD**

200518R2\_2



200518R2\_2



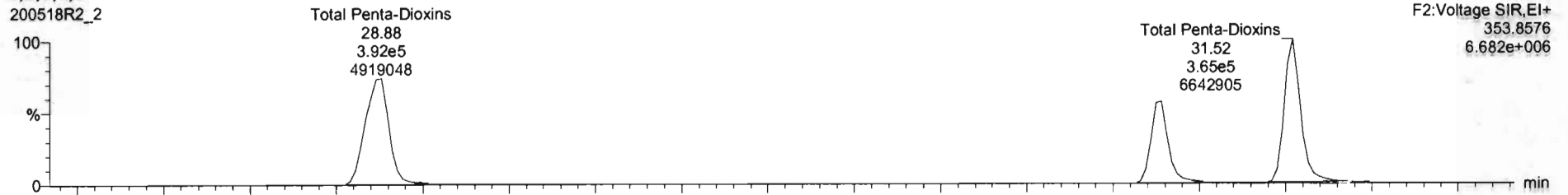
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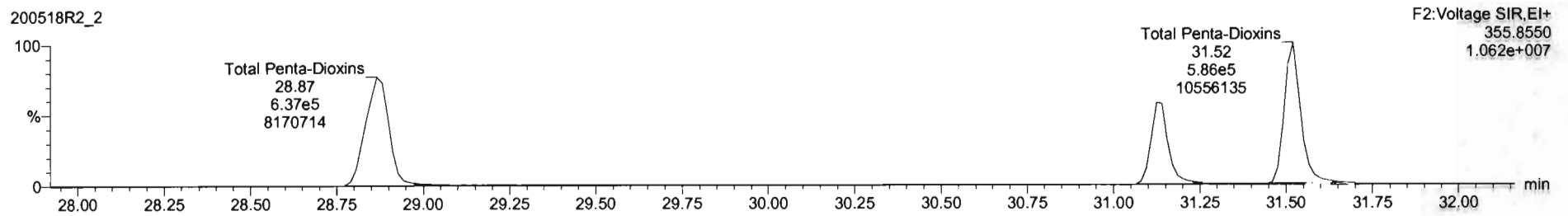
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1,2,3,7,8-PeCDD

200518R2\_2

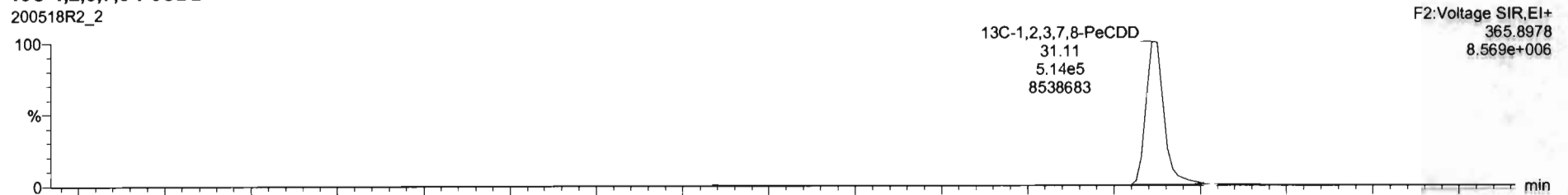


200518R2\_2

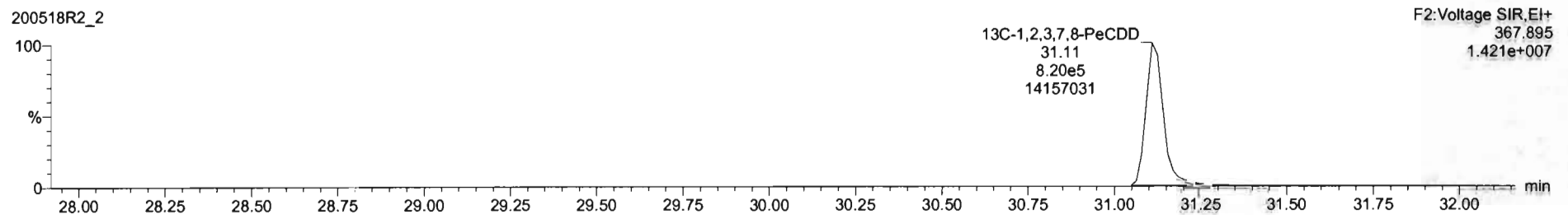


13C-1,2,3,7,8-PeCDD

200518R2\_2



200518R2\_2



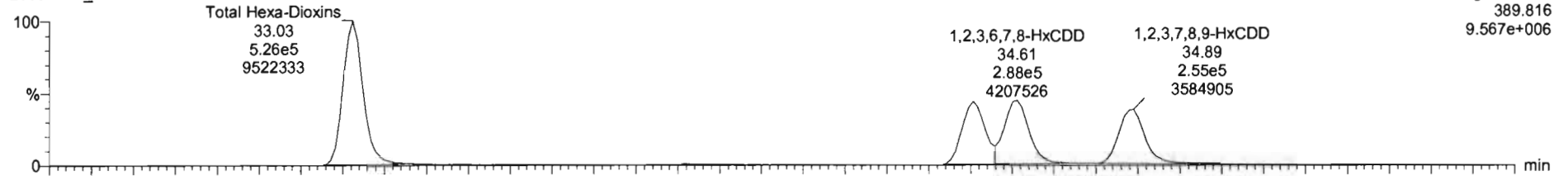
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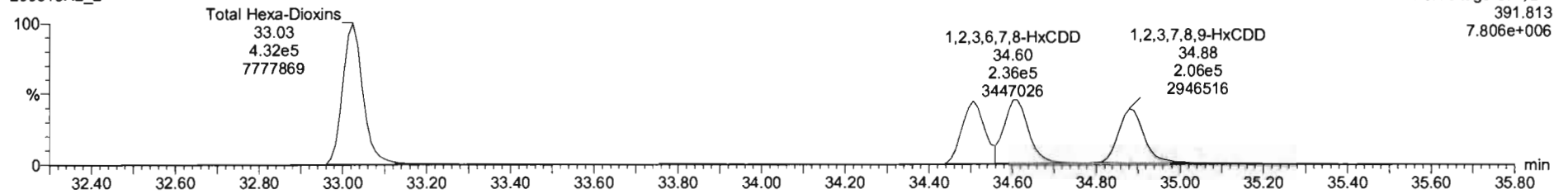
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**1,2,3,4,7,8-HxCDD**

200518R2\_2

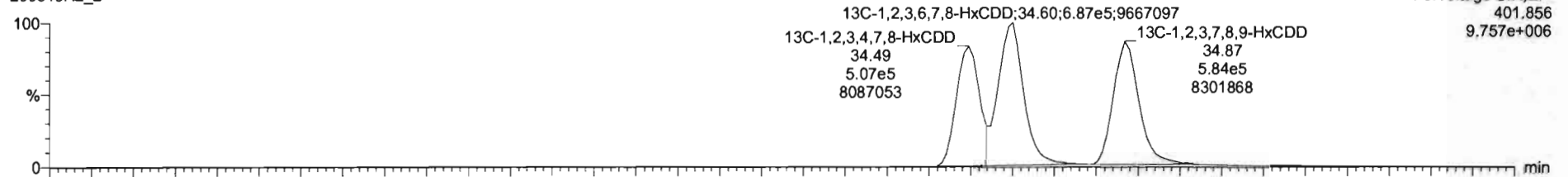


200518R2\_2

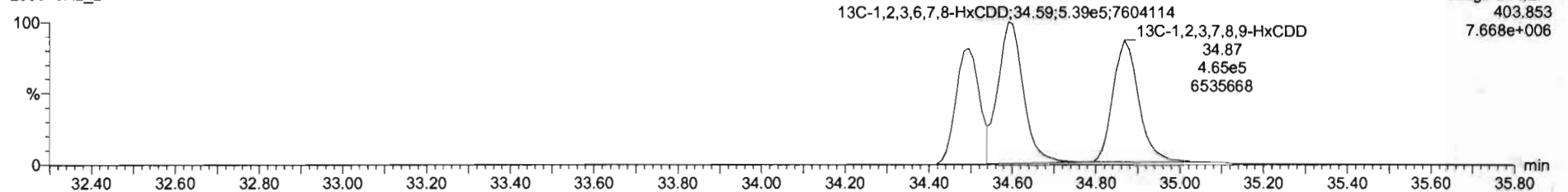


**13C-1,2,3,4,7,8-HxCDD**

200518R2\_2



200518R2\_2



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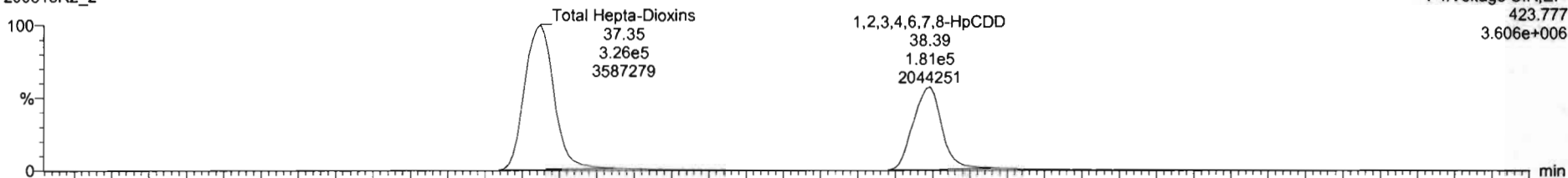
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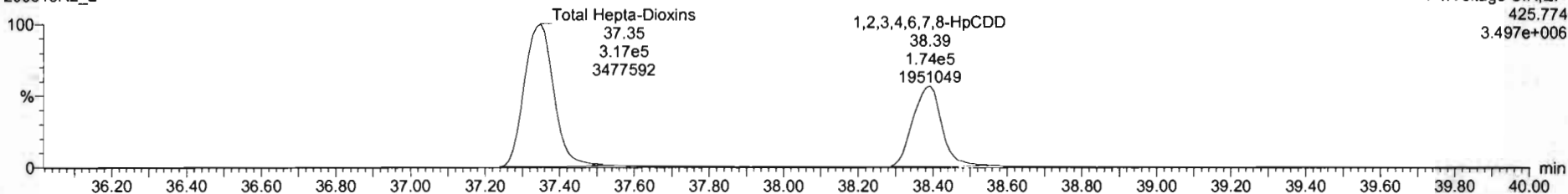
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1,2,3,4,6,7,8-HpCDD

200518R2\_2

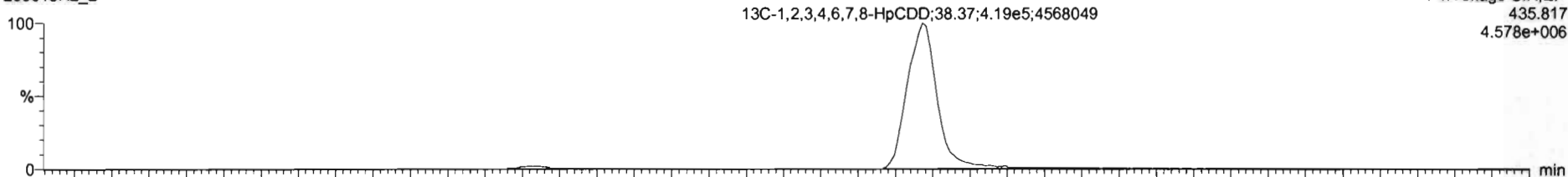


200518R2\_2

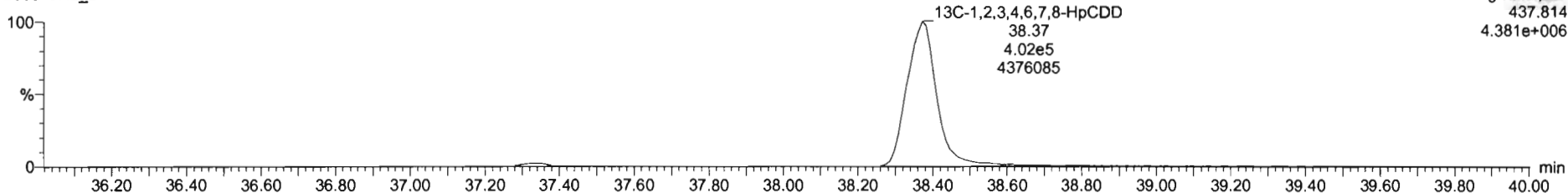


13C-1,2,3,4,6,7,8-HpCDD

200518R2\_2



200518R2\_2



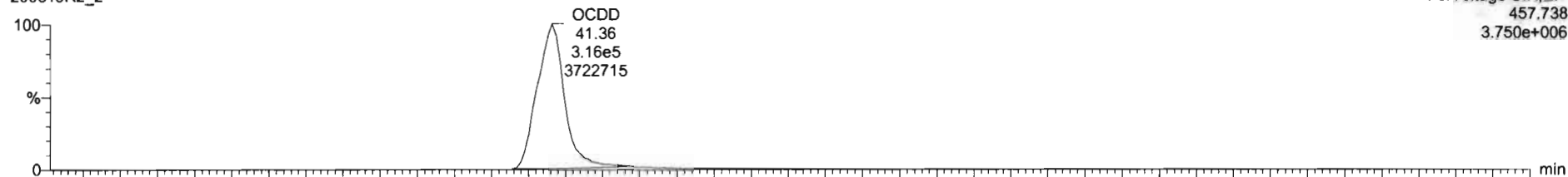
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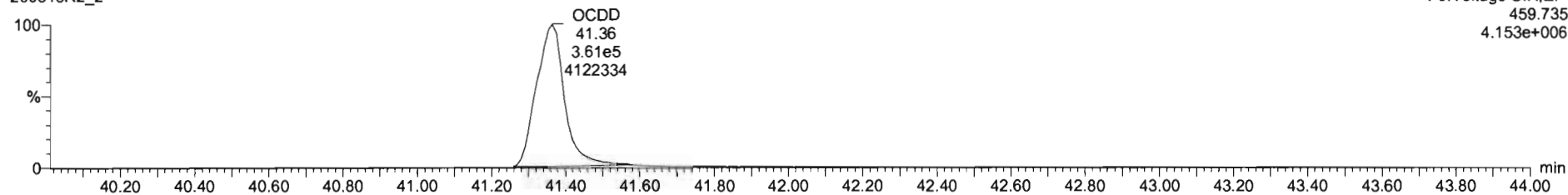
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**OCDD**

200518R2\_2

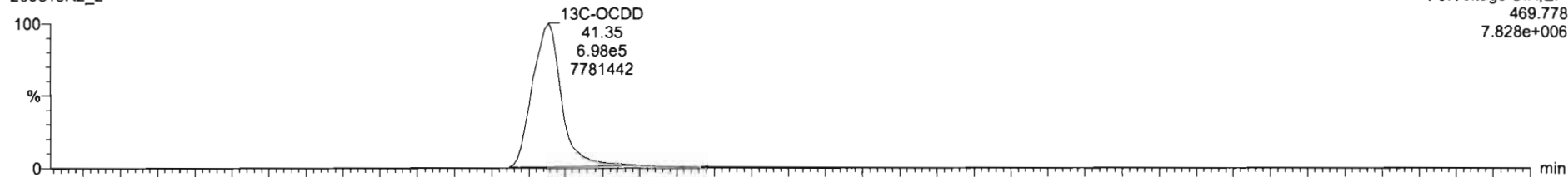


200518R2\_2

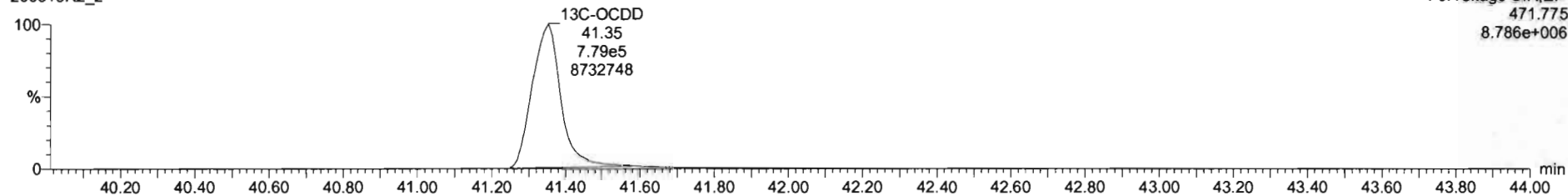


**13C-OCDD**

200518R2\_2



200518R2\_2



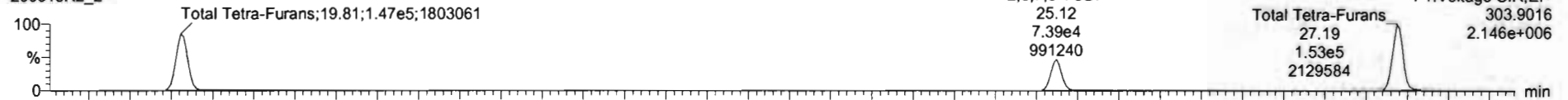
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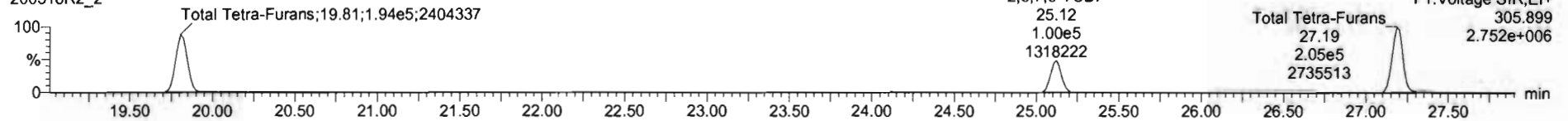
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**2,3,7,8-TCDF**

200518R2\_2

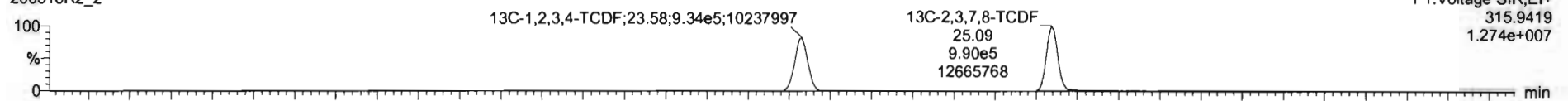


200518R2\_2

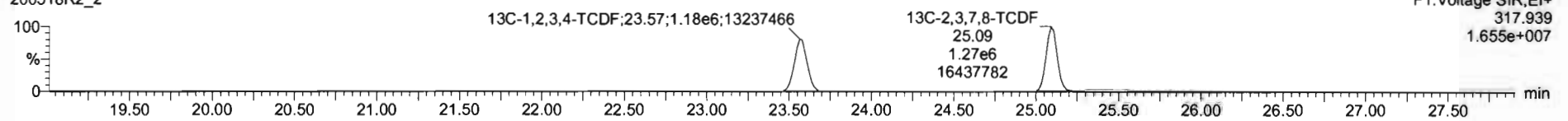


**13C-2,3,7,8-TCDF**

200518R2\_2

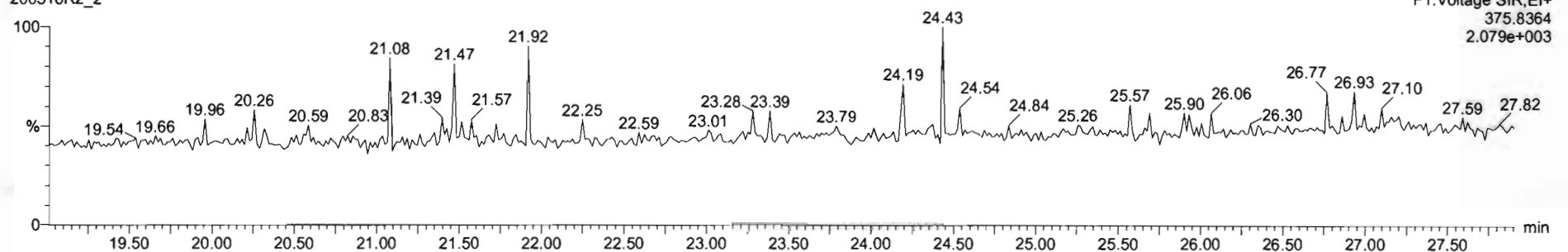


200518R2\_2



**DPE1**

200518R2\_2



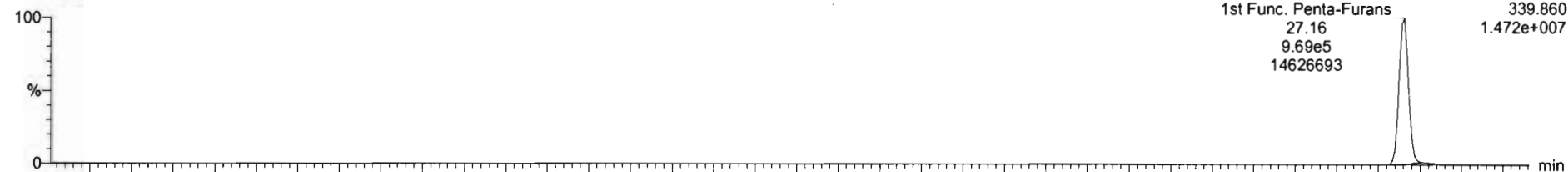
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Printed: Monday, May 18, 2020 15:34:42 Pacific Daylight Time

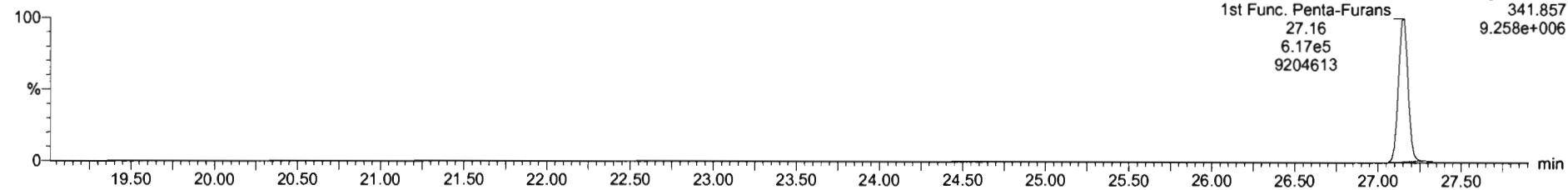
Name: 200518R2\_2, Date: 18-May-2020, Time: 14:46:59, ID: ST200518R2\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1st Func. Penta-Furans

200518R2\_2

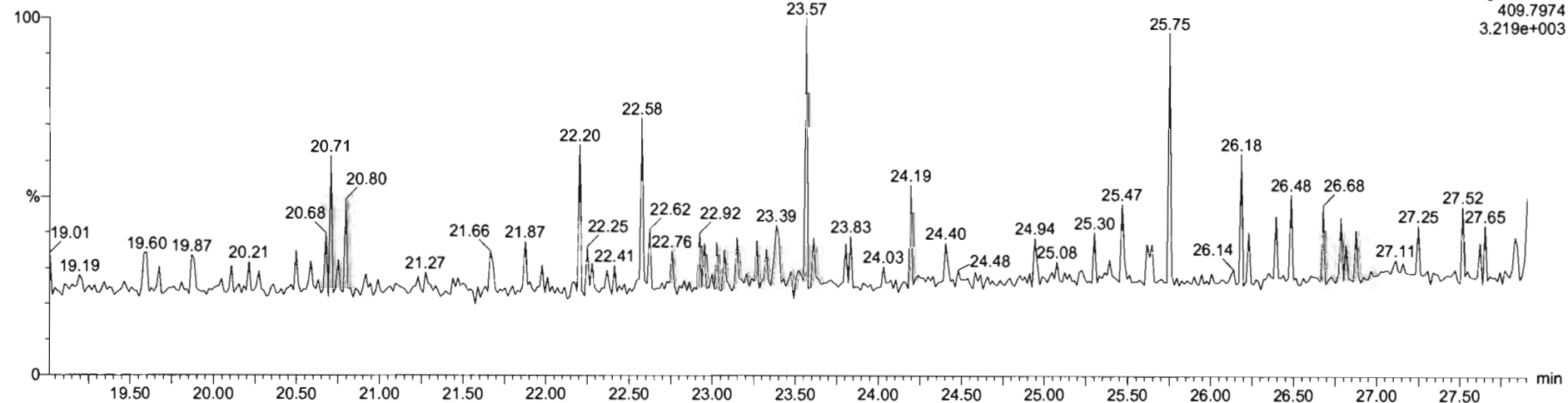


200518R2\_2



DPE6

200518R2\_2





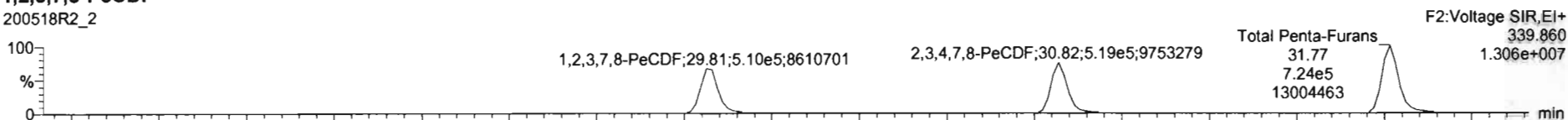
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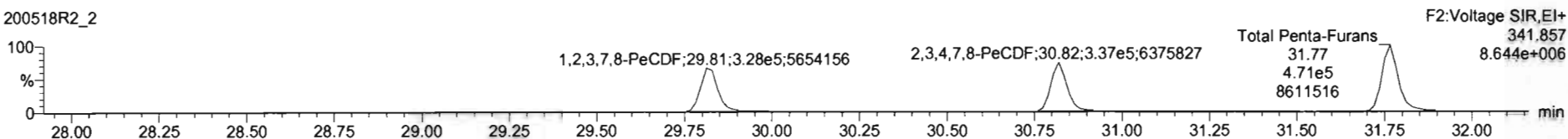
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**1,2,3,7,8-PeCDF**

200518R2\_2

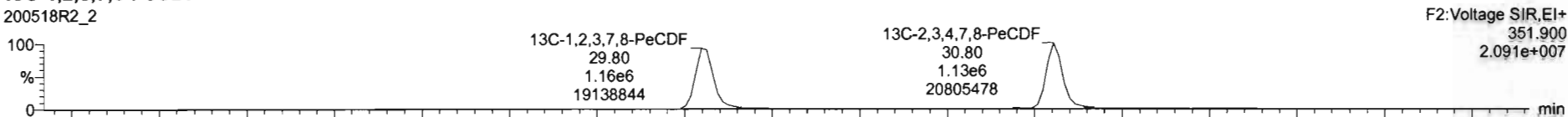


200518R2\_2

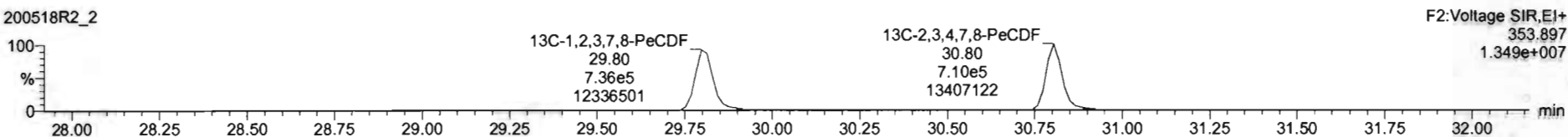


**13C-1,2,3,7,8-PeCDF**

200518R2\_2

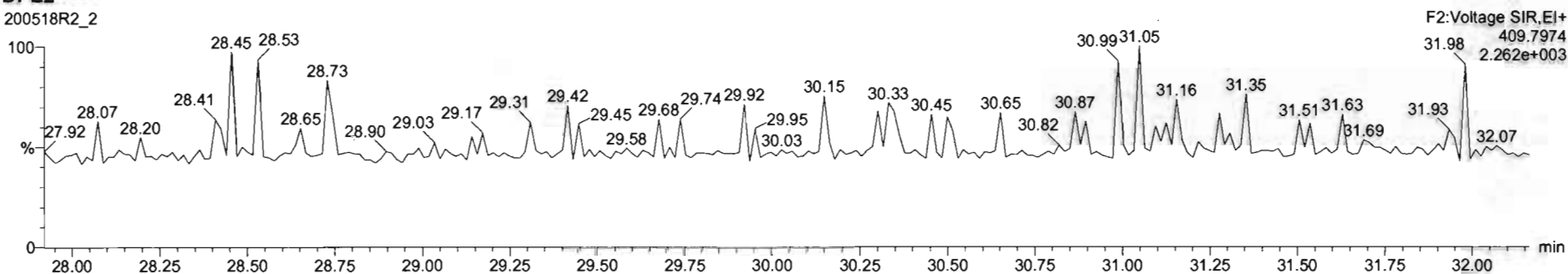


200518R2\_2



**DPE2**

200518R2\_2

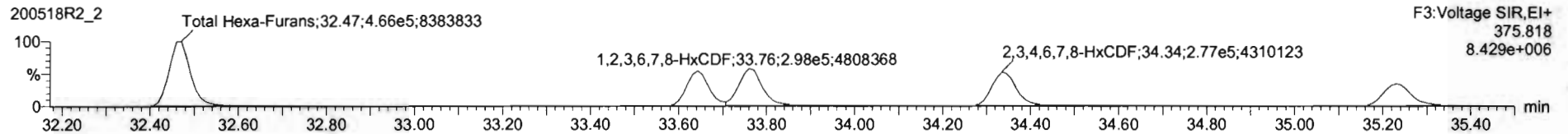
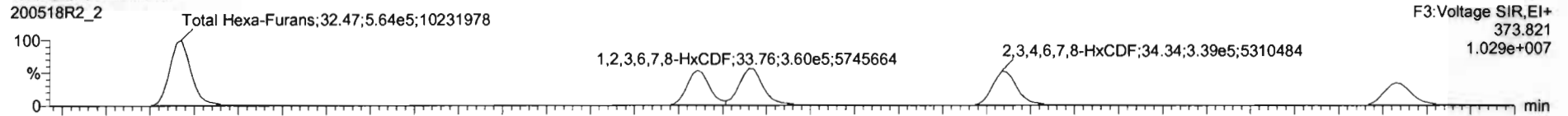


Dataset: Untitled

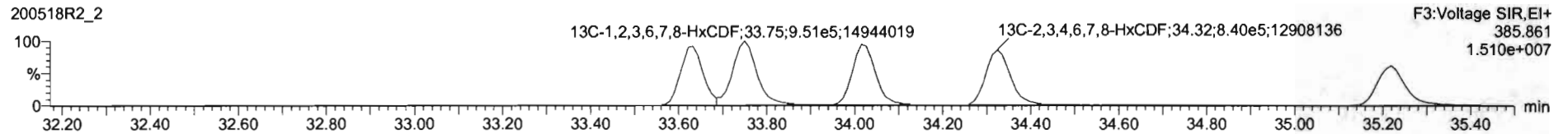
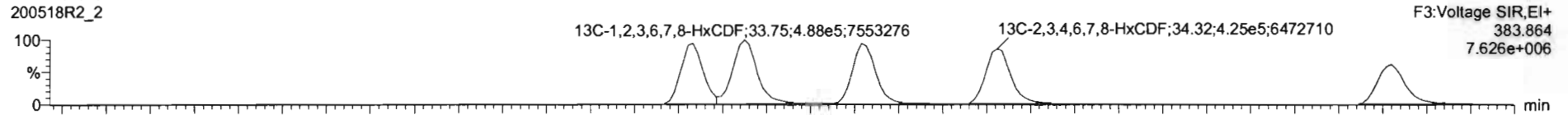
Last Altered: Monday, May 18, 2020 15:34:39 Pacific Daylight Time  
Printed: Monday, May 18, 2020 15:34:42 Pacific Daylight Time

Name: 200518R2\_2, Date: 18-May-2020, Time: 14:46:59, ID: ST200518R2\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

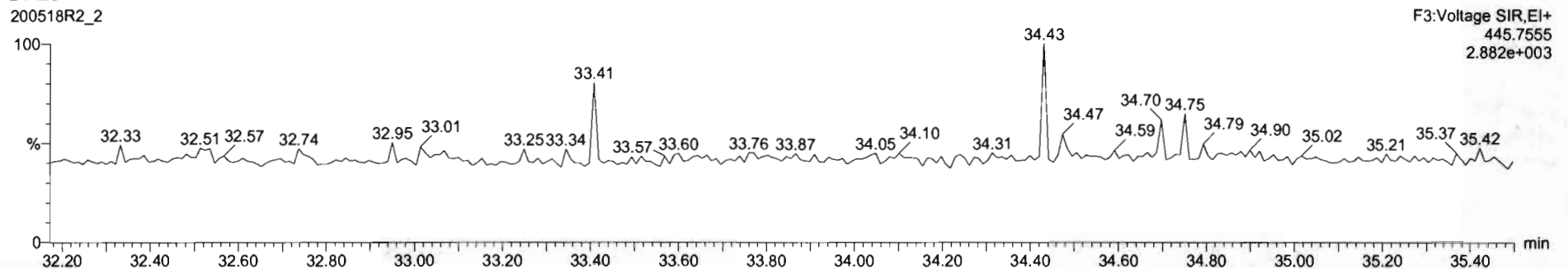
**1,2,3,4,7,8-HxCDF**



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



**DPE3**



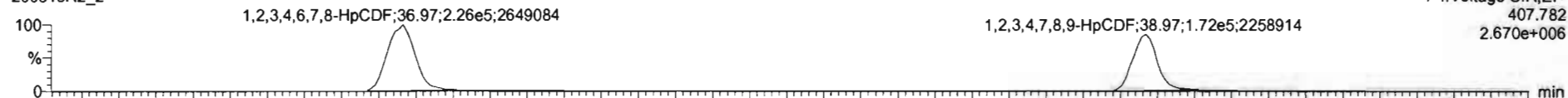
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Last Altered: Monday, May 18, 2020 15:34:39 Pacific Daylight Time  
Printed: Monday, May 18, 2020 15:34:42 Pacific Daylight Time

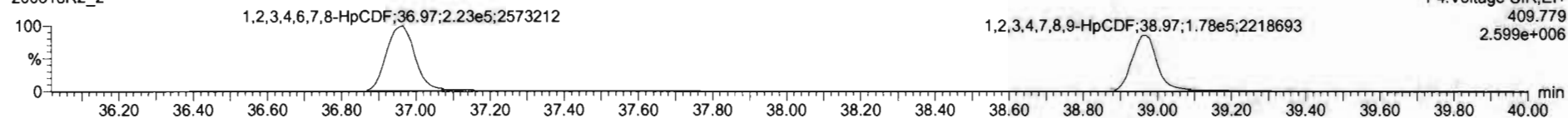
Name: 200518R2\_2, Date: 18-May-2020, Time: 14:46:59, ID: ST200518R2\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200518R2\_2

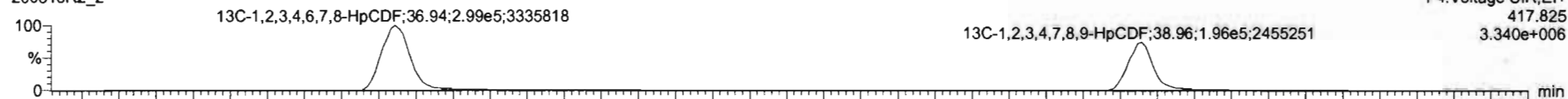


200518R2\_2

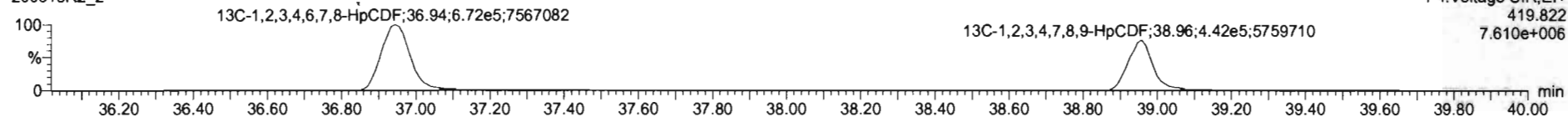


13C-1,2,3,4,6,7,8-HpCDF

200518R2\_2

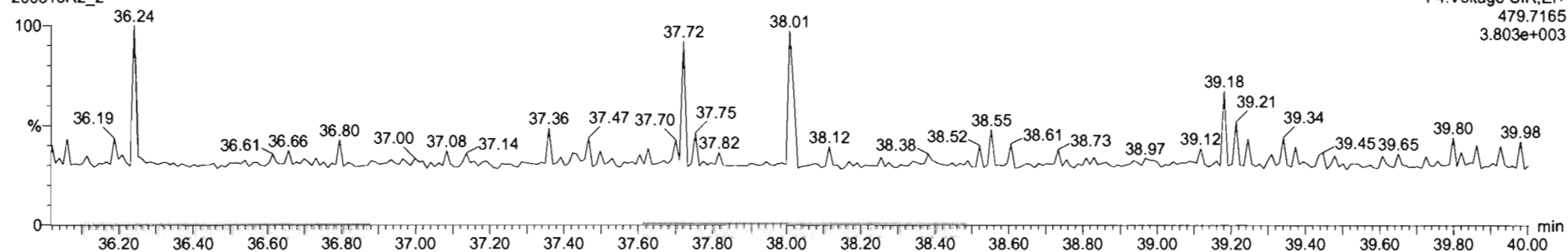


200518R2\_2

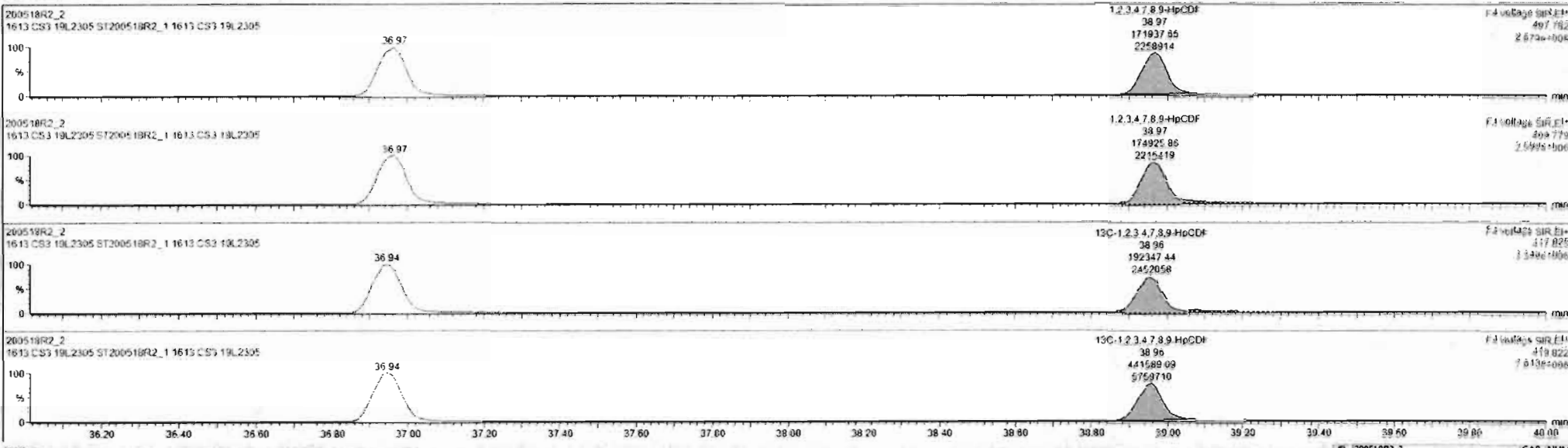


DPE4

200518R2\_2



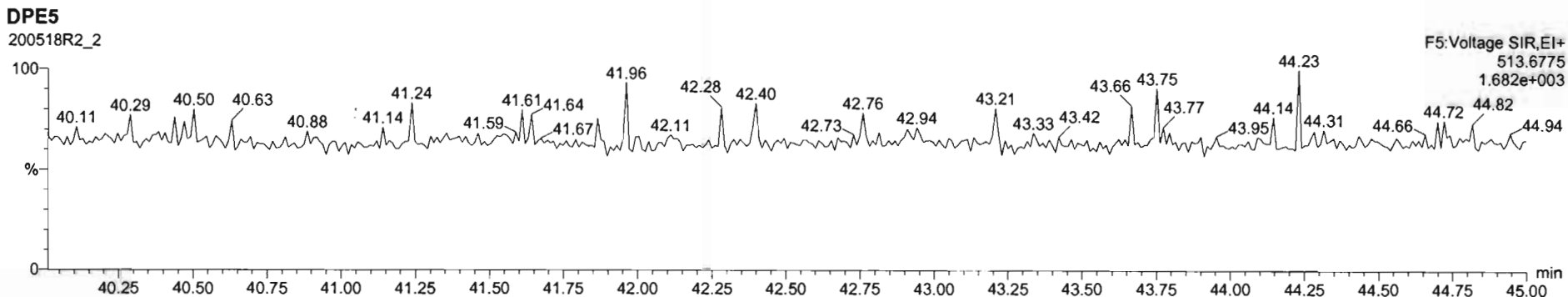
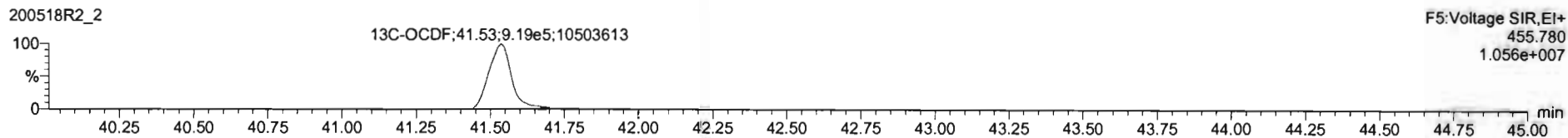
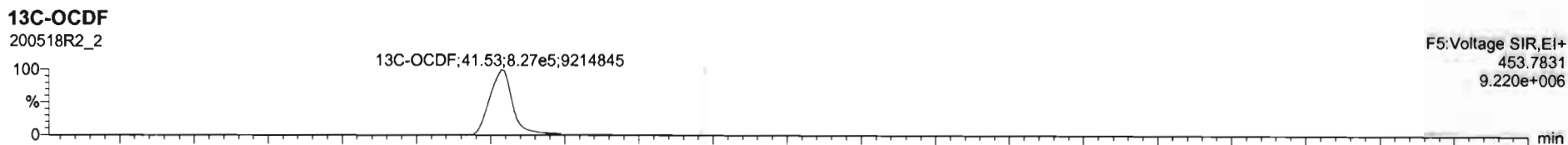
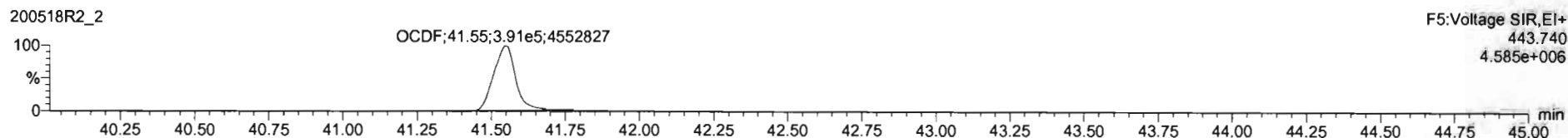
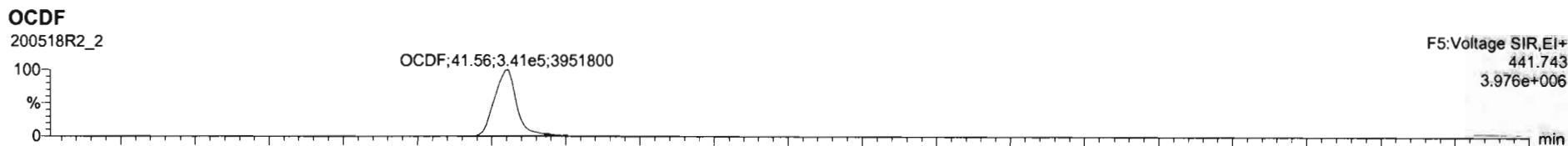
#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	1.54e5	1.73e6	0.77	0.76	NO	0.9475	26.07	26.06	NO	1.001	1.001	9.41	94.1	NO
2	1,2,3,7,8-PeCDD	5.75e5	1.33e6	0.63	0.62	NO	0.9426	31.13	31.14	NO	1.001	1.001	45.8	91.8	NO
3	1,2,3,4,7,8-HxCDD	4.62e5	9.02e5	1.24	1.23	NO	1.0641	34.51	34.51	NO	1.000	1.000	59.3	101	NO
4	1,2,3,6,7,8-HxCDD	5.23e5	1.23e6	1.24	1.22	NO	0.9145	34.80	34.81	NO	1.000	1.000	46.7	93.3	NO
5	1,2,3,7,8,9-HxCDD	4.62e5	1.05e6	1.24	1.24	NO	0.9149	34.80	34.80	NO	1.000	1.001	48.1	96.3	NO
6	1,2,3,4,6,7,8-HpCDD	3.55e5	8.20e5	1.04	1.04	NO	0.9979	36.36	36.39	NO	1.000	1.001	46.2	96.4	NO
7	OCDD	6.77e5	1.48e6	0.89	0.88	NO	0.9335	41.35	41.36	NO	1.000	1.000	98.2	96.2	NO
8	2,3,7,8-TCDF	1.74e5	2.26e6	0.77	0.74	NO	0.7871	25.12	25.12	NO	1.001	1.001	9.76	97.8	NO
9	1,2,3,7,8-PeCDF	8.38e5	1.89e6	1.55	1.55	NO	0.9102	29.82	29.81	NO	1.001	1.001	48.6	97.2	NO
10	2,3,4,7,8-PeCDF	8.55e5	1.84e6	1.55	1.54	NO	0.9964	30.84	30.82	NO	1.001	1.000	48.1	96.1	NO
11	1,2,3,4,7,8-HxCDF	5.76e5	1.22e6	1.24	1.21	NO	0.9762	32.63	32.64	NO	1.000	1.000	54.0	108	NO
12	1,2,3,6,7,8-HxCDF	6.58e5	1.44e6	1.24	1.21	NO	0.8740	33.78	33.76	NO	1.000	1.000	52.3	105	NO
13	2,3,4,6,7,8-HxCDF	6.16e5	1.27e6	1.24	1.22	NO	0.9217	34.36	34.33	NO	1.001	1.000	52.8	106	NO
14	1,2,3,7,8,9-HxCDF	4.66e5	1.03e6	1.24	1.24	NO	0.9642	35.22	35.23	NO	1.000	1.000	52.4	105	NO
15	1,2,3,4,6,7,8-HpCDF	4.49e5	9.70e5	1.04	1.01	NO	0.8712	36.90	36.97	NO	1.001	1.001	53.1	106	NO
16	1,2,3,4,6,7,8,9-HpCDF	3.47e5	8.34e5	1.04	0.98	NO	1.0118	38.96	38.97	NO	1.000	1.000	54.1	108	NO
17	OCDF	7.32e5	1.75e6	0.89	0.87	NO	0.8921	41.53	41.56	NO	1.000	1.001	105	105	NO
18	13C-2,3,7,8-TCDD	1.73e6	1.47e6	0.77	0.78	NO	1.1595	26.02	26.03	NO	1.026	1.027	101	101	NO
19	13C-1,2,3,7,8-PeCDD	1.33e6	1.47e6	0.63	0.63	NO	0.8472	31.10	31.11	NO	1.227	1.227	107	107	NO
20	13C-1,2,3,4,7,8-HxCDD	9.02e5	1.27e6	1.24	1.26	NO	0.7499	34.50	34.49	NO	1.014	1.014	94.7	94.7	NO
21	13C-1,2,3,6,7,8-HxCDD	1.23e6	1.27e6	1.24	1.27	NO	0.9630	34.81	34.60	NO	1.017	1.017	100	100	NO



Dataset: Untitled

Last Altered: Monday, May 18, 2020 15:34:39 Pacific Daylight Time  
Printed: Monday, May 18, 2020 15:34:42 Pacific Daylight Time

Name: 200518R2\_2, Date: 18-May-2020, Time: 14:46:59, ID: ST200518R2\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

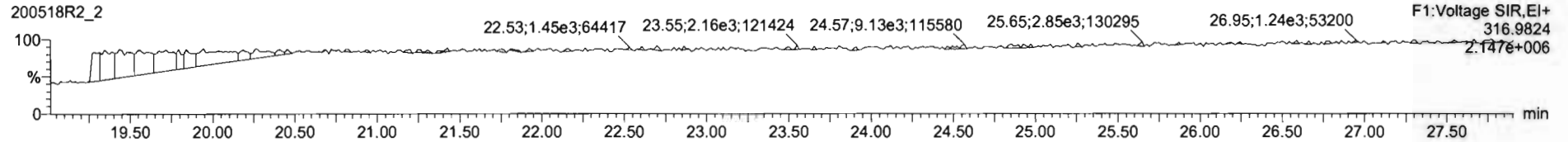


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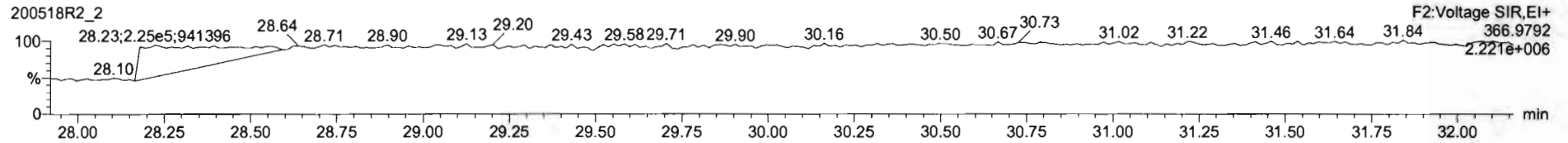
Last Altered: Monday, May 18, 2020 15:34:39 Pacific Daylight Time  
Printed: Monday, May 18, 2020 15:34:42 Pacific Daylight Time

Name: 200518R2\_2, Date: 18-May-2020, Time: 14:46:59, ID: ST200518R2\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

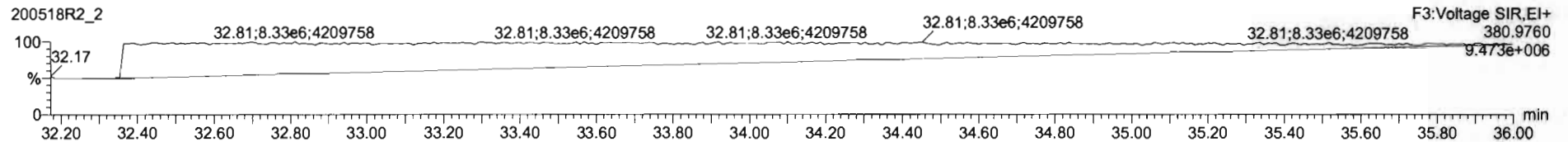
PFK1



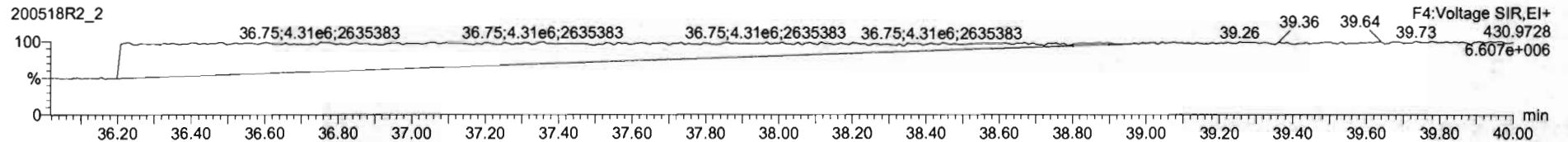
PFK2



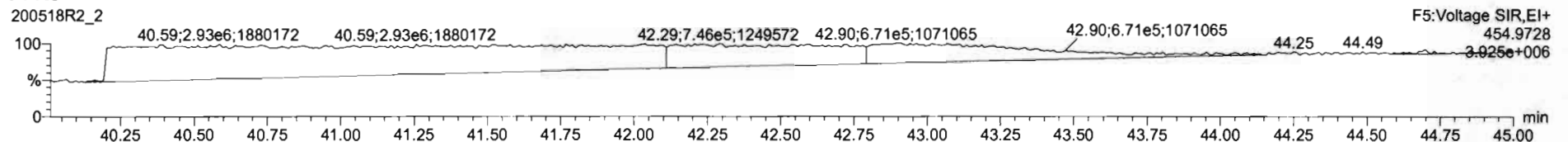
PFK3



PFK4



PFK5



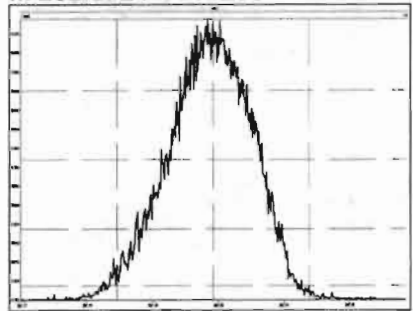
Experiment Calibration Report

MassLynx 4.1 SCN815

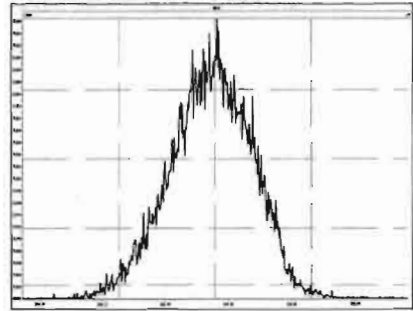
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, May 19, 2020 07:19:18 Pacific Daylight Time

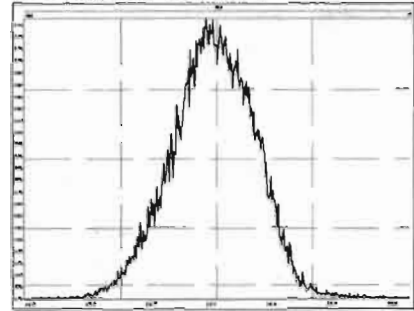
M 292.9824 R 10203



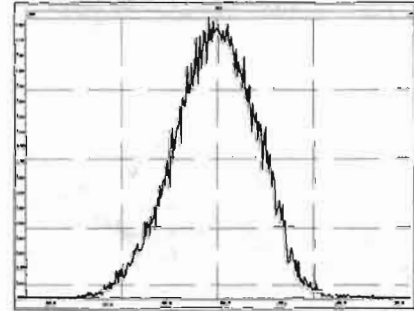
M 304.9824 R 10680



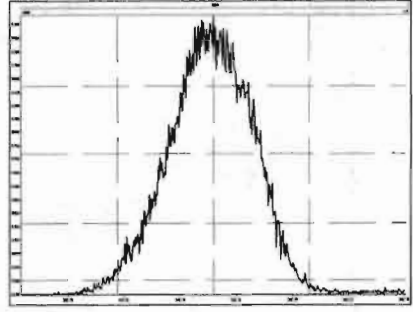
M 318.9792 R 10373



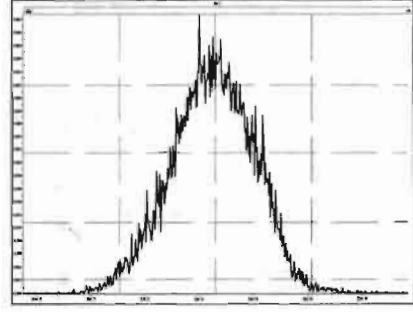
M 330.9792 R 10248



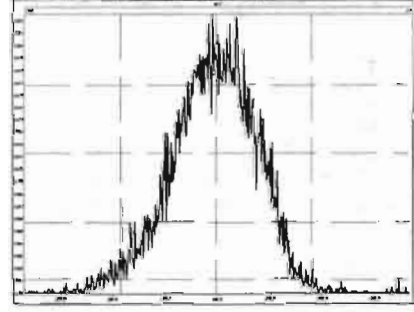
M 342.9792 R 10081



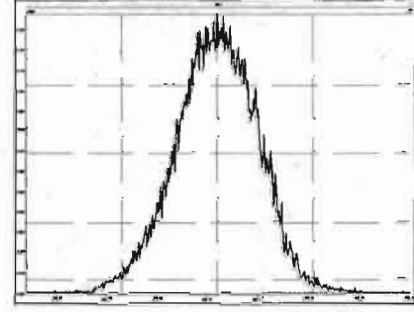
M 354.9792 R 10203



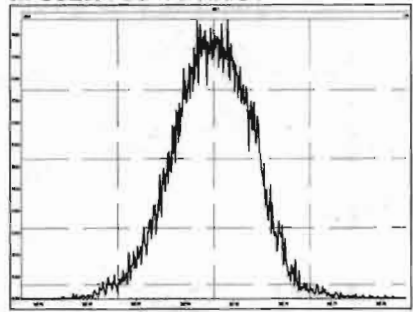
M 366.9792 R 10331



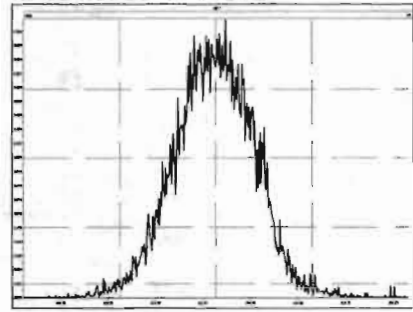
M 380.9760 R 10460



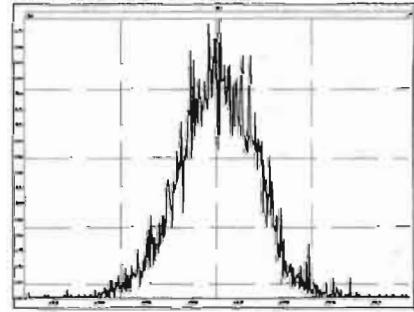
M 392.9760 R 10681



M 404.9760 R 11013



M 416.9760 R 12624



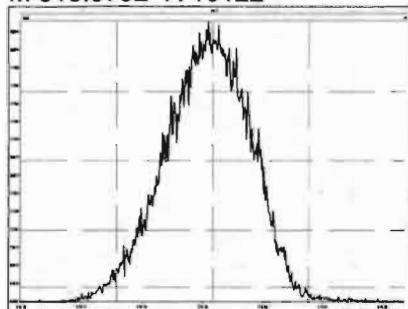
Experiment Calibration Report

MassLynx 4.1 SCN815

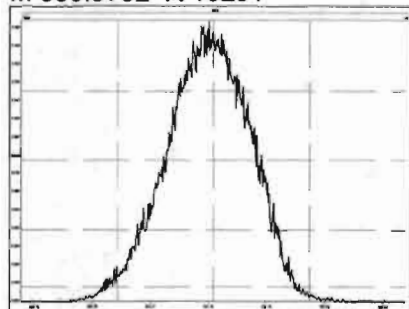
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Tuesday, May 19, 2020 07:19:57 Pacific Daylight Time

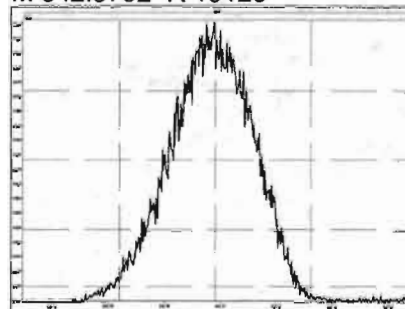
M 318.9792 R 10122



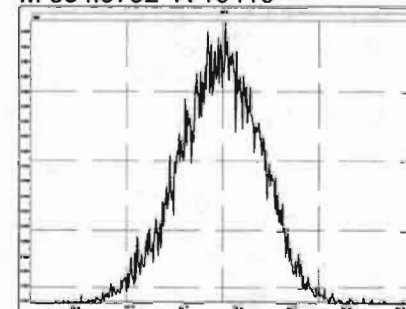
M 330.9792 R 10291



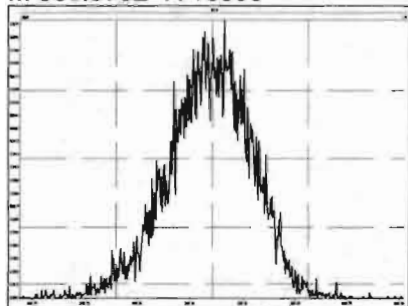
M 342.9792 R 10123



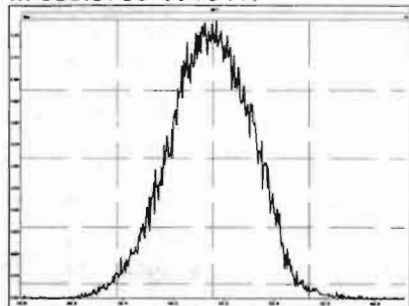
M 354.9792 R 10416



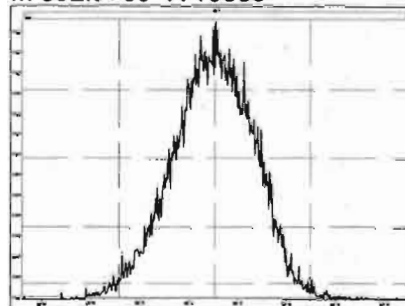
M 366.9792 R 10595



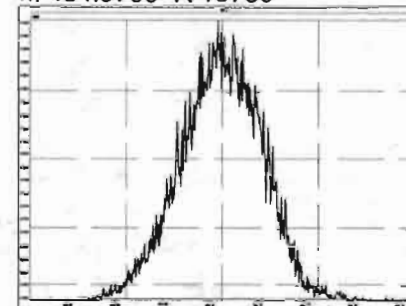
M 380.9760 R 10417



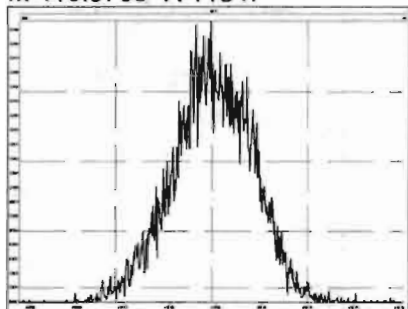
M 392.9760 R 10333



M 404.9760 R 10730



M 416.9760 R 11847





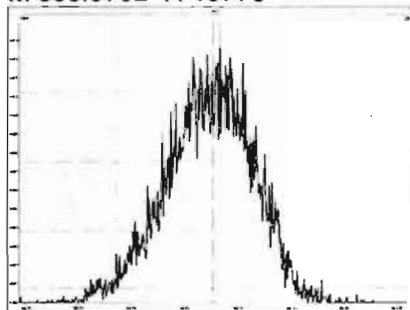
Experiment Calibration Report

MassLynx 4.1 SCN815

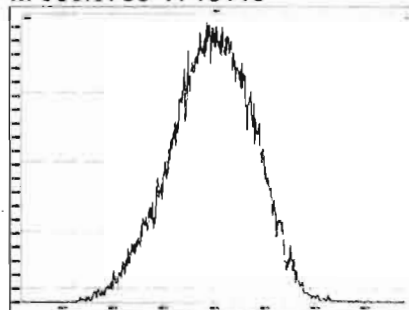
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Tuesday, May 19, 2020 07:21:22 Pacific Daylight Time

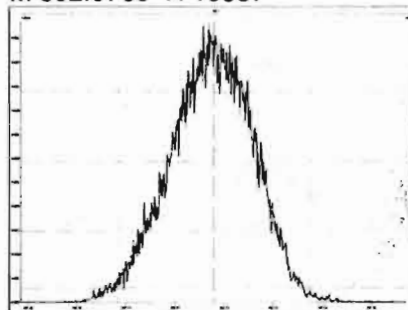
M 366.9792 R 10778



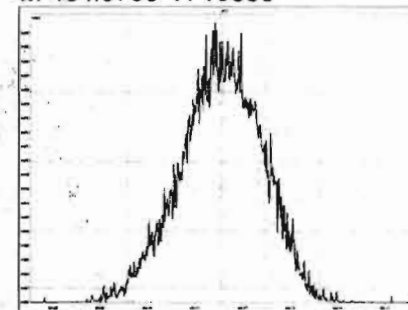
M 380.9760 R 10118



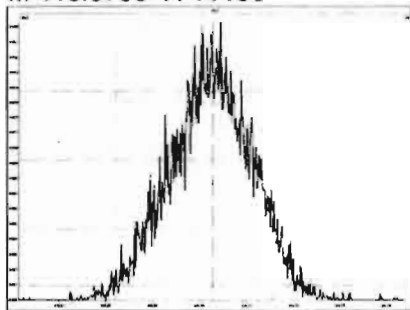
M 392.9760 R 10687



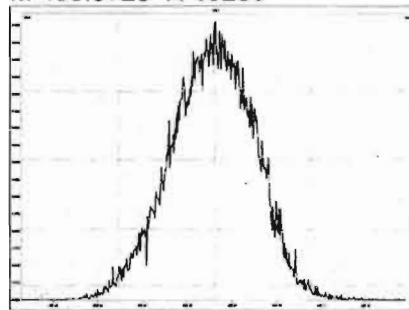
M 404.9760 R 10635



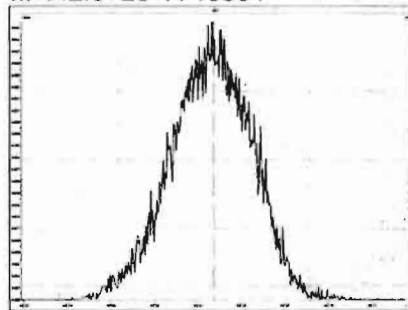
M 416.9760 R 11160



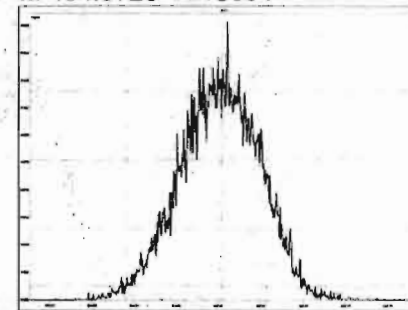
M 430.9728 R 10286



M 442.9728 R 10684



M 454.9728 R 10591



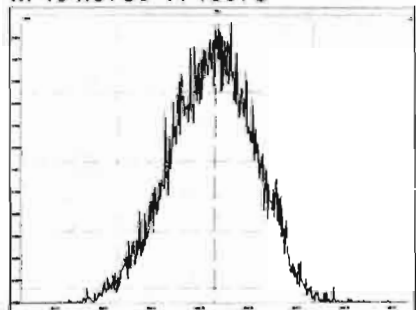
Experiment Calibration Report

MassLynx 4.1 SCN815

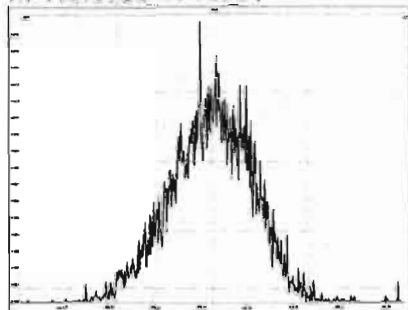
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Printed: Tuesday, May 19, 2020 07:22:01 Pacific Daylight Time

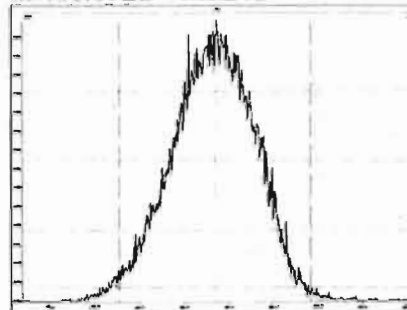
M 404.9760 R 10375



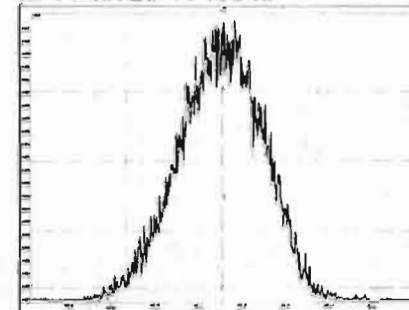
M 416.9760 R 10504



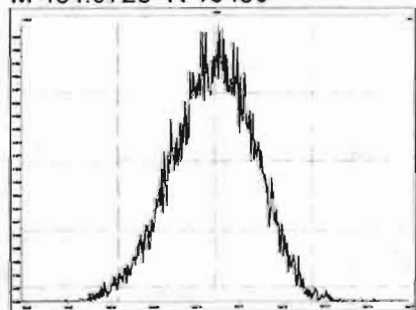
M 430.9728 R 10248



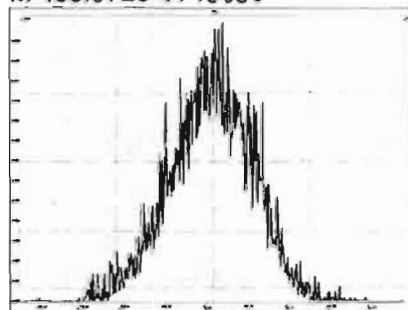
M 442.9728 R 10546



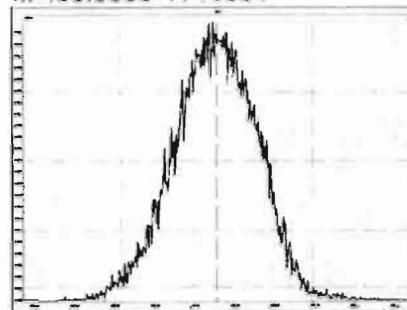
M 454.9728 R 10460



M 466.9728 R 10550



M 480.9696 R 10504



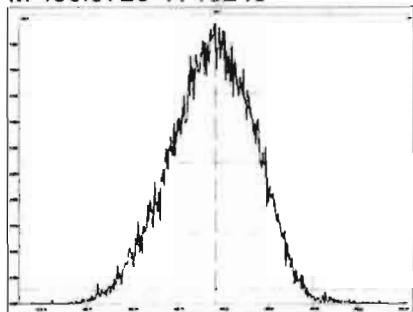
Experiment Calibration Report

MassLynx 4.1 SCN815

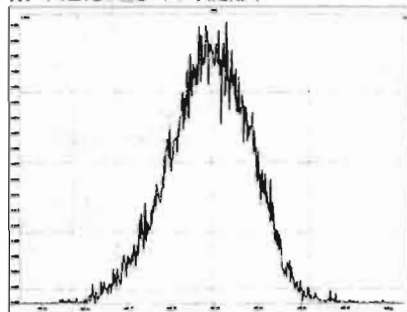
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Printed: Tuesday, May 19, 2020 07:22:37 Pacific Daylight Time

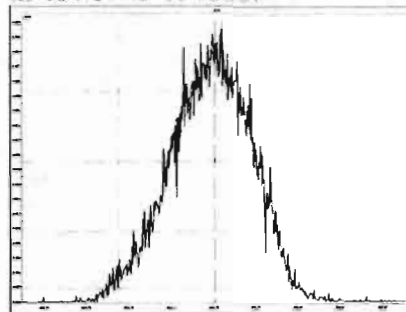
M 430.9728 R 10246



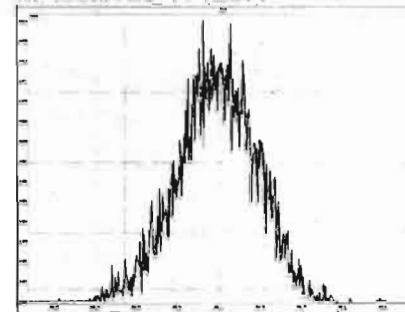
M 442.9728 R 10291



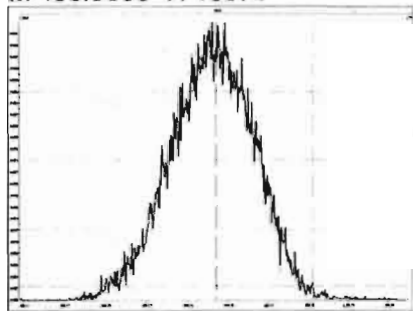
M 454.9728 R 10867



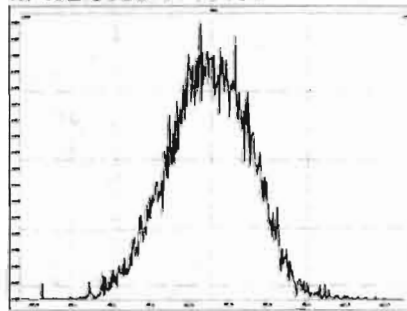
M 466.9728 R 12077



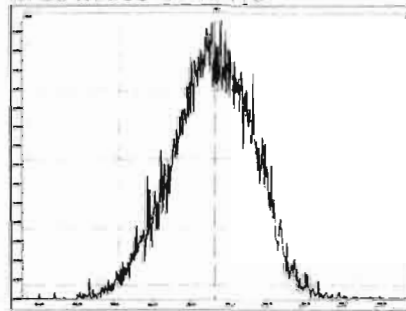
M 480.9696 R 10871



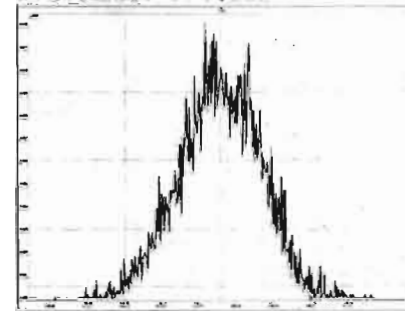
M 492.9696 R 10414



M 504.9696 R 10416



M 516.9697 R 11008



# HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST20051211-1

Reviewed By: CT 05/13/2020

*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"/> NA	<input type="checkbox"/>
Retention Times within criteria?	<input 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?	<input checked="" type="checkbox"/> JB	<input type="checkbox"/>
<b>Run Log:</b>		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> N
- Samples within 12 hour clock?	<input checked="" type="checkbox"/> (V)	N
- Bottle position verified?	<input checked="" type="checkbox"/> JB	<input type="checkbox"/>

Mass resolution  $\geq$

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

Intergrated peaks display correctly?

	<u>Beg.</u>	<u>End</u>
Mass resolution $\geq$	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> A
Intergrated peaks display correctly?	<input checked="" 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:**

A) PFIC Armin

Dataset: U:\VG7.PRO\Results\200512D1\200512D1\_2.qld

Last Altered: Tuesday, May 12, 2020 11:47:45 Pacific Daylight Time  
Printed: Tuesday, May 12, 2020 11:49:09 Pacific Daylight Time

DB 5/12/20

CT 05/13/2020

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: 200512D1\_2, Date: 12-May-2020, Time: 11:23:51, ID: ST200512D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	1.46e4	0.81	NO	0.982	1.000	17.678	17.68	1.000	1.001	8.6463	86.586-116	0.146	8.65
2	2 13C-2,3,7,8-TCDF	1.72e5	0.77	NO	1.08	1.000	17.712	17.66	1.133	1.135	97.128	97.176-131	0.479	
3	3 13C-1,2,3,4-TCDF	1.63e5	0.81	NO	1.00	1.000	15.660	15.55	1.000	1.000	100.00	100	0.519	

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Wednesday, May 13, 2020 09:42:29 Pacific Daylight Time

Printed: Wednesday, May 13, 2020 09:42:44 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

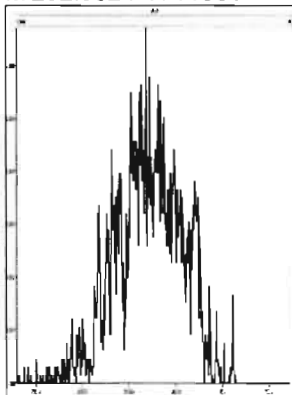
Compound name: 2,3,7,8-TCDF

	Name	ID	Acq.Date	Acq.Time
1	200512D1_1	CP200512D1-1 DB-225 CPSM	12-May-20	10:53:43
2	200512D1_2	ST200512D1-1 1613 CS3 19L2305	12-May-20	11:23:51
3	200512D1_3	SOLVENT BLANK	12-May-20	11:55:37
4	200512D1_4	2000952-05RE1 PDI-160SC-A-00-01-200423 ...	12-May-20	12:27:31
5	200512D1_5	2000951-01RE1 PDI-1159SC-A-01-02-200423...	12-May-20	12:59:11
6	200512D1_6	2000951-02RE1 PDI-159SC-A-00-01-200423 ...	12-May-20	13:30:54
7	200512D1_7	2000953-01RE1 PDI-165SC-A-00-01-200426 ...	12-May-20	14:02:36
8	200512D1_8	2000948-09RE1 PDI-1161SC-A-02-03-200424...	12-May-20	14:34:18
9	200512D1_9	2000948-10RE1 PDI-161SC-A-00-01-200424 ...	12-May-20	15:06:01
10	200512D1_10	2000948-11RE1 PDI-161SC-A-01-02-200424 ...	12-May-20	15:37:43
11	200512D1_11	2000948-12RE1 PDI-161SC-A-02-03-200424 ...	12-May-20	16:09:25
12	200512D1_12	2000948-13RE1 PDI-161SC-A-03-04-200424 ...	12-May-20	16:41:07
13	200512D1_13	2000842-02RE1 Secondary Effluent 0.87267	12-May-20	17:12:50
14	200512D1_14	B0D0323-DUP1RE1 Duplicate	12-May-20	17:44:32
15	200512D1_15	B0D0332-DUP1RE1 Duplicate	12-May-20	18:16:14

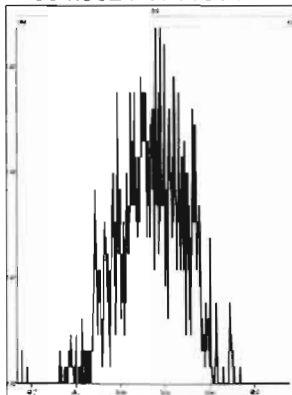
File: Experiment: tcdf\_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, May 12, 2020 10:52:53 Pacific Daylight Time

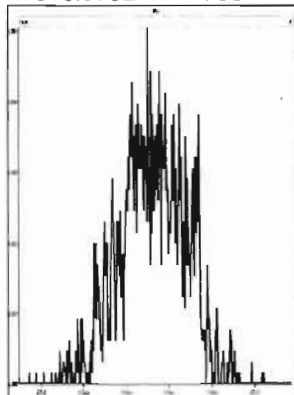
M 292.9824 R 11901



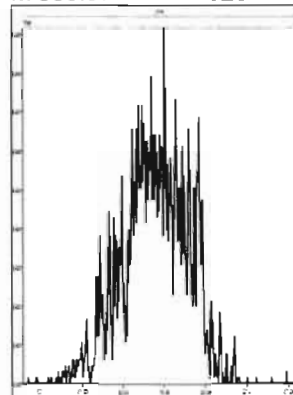
M 304.9824 R 11014



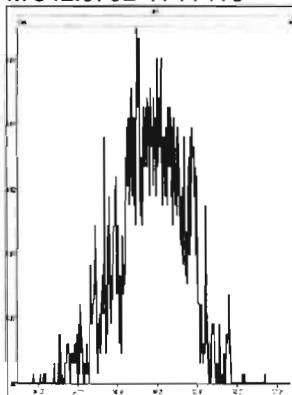
M 318.9792 R 11736



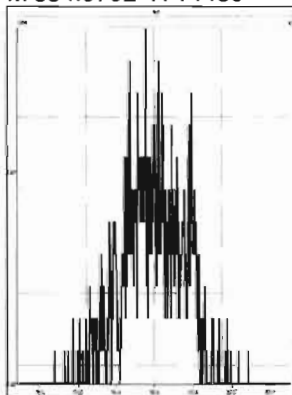
M 330.9792 R 11523



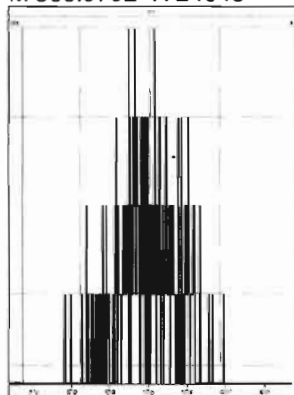
M 342.9792 R 11416



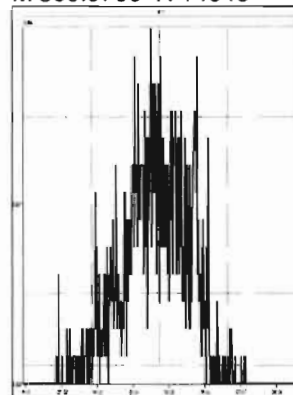
M 354.9792 R 14450

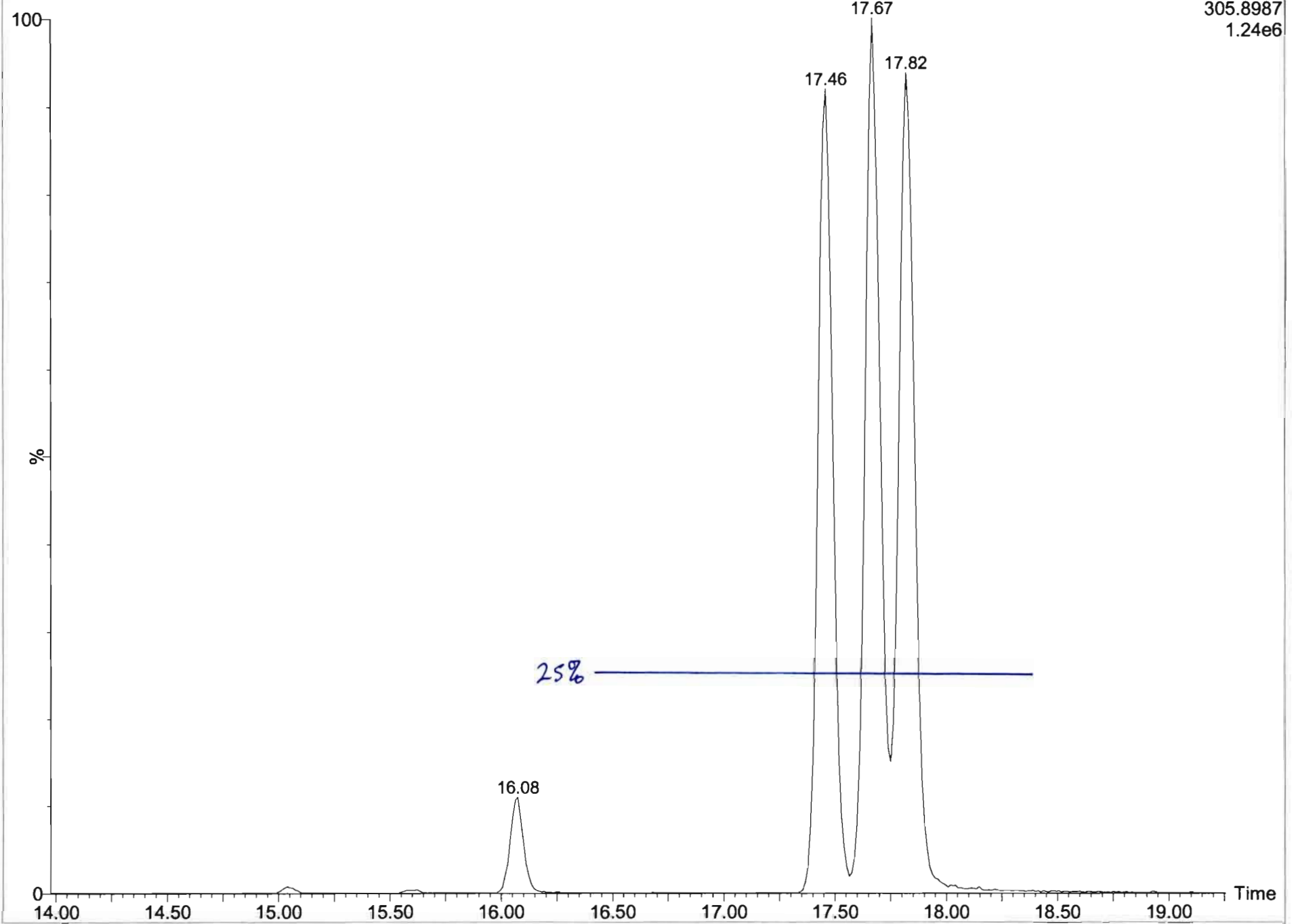


M 366.9792 R 24043



M 380.9760 R 14046







Dataset: U:\VG7.PRO\Results\200512D1\200512D1\_1.qld

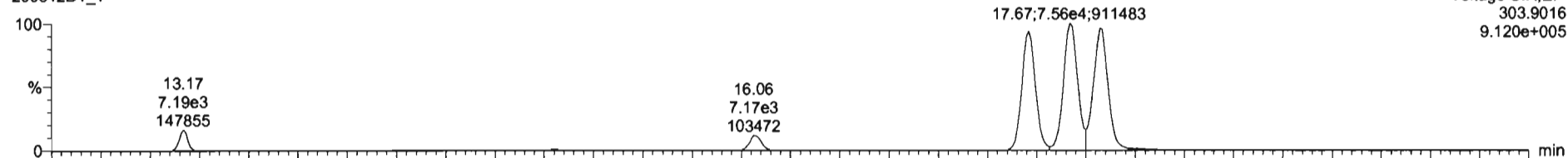
Last Altered: Tuesday, May 12, 2020 11:45:20 Pacific Daylight Time  
Printed: Tuesday, May 12, 2020 11:46:29 Pacific Daylight Time

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

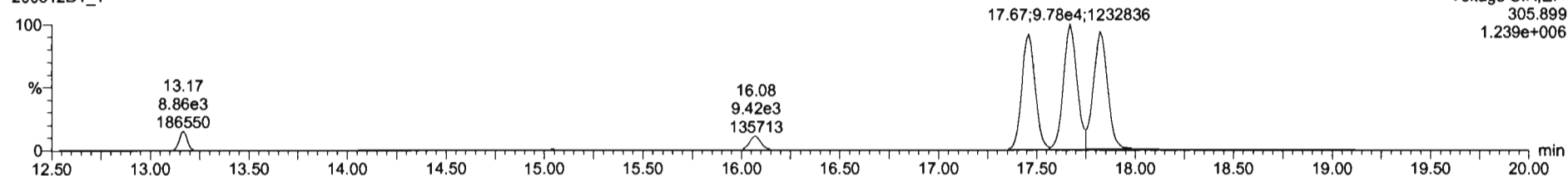
Name: 200512D1\_1, Date: 12-May-2020, Time: 10:53:43, ID: CP200512D1-1 DB-225 CPSM, Description: DB-225 CPSM

2,3,7,8-TCDF

200512D1\_1

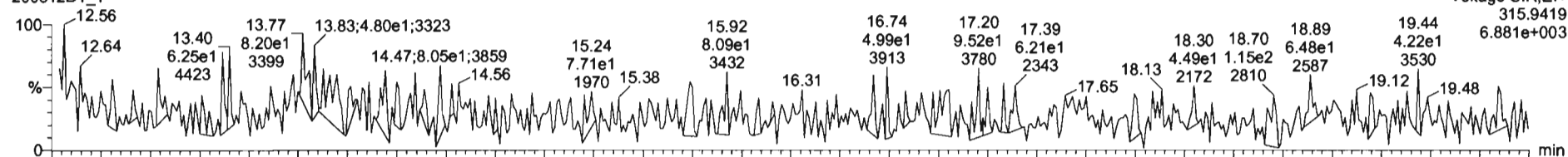


200512D1\_1

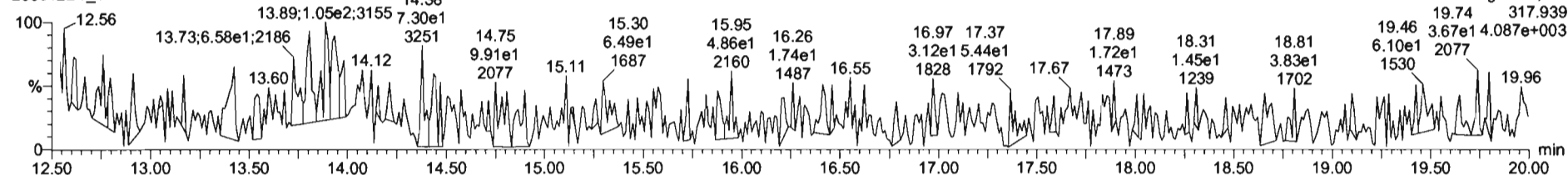


13C-2,3,7,8-TCDF

200512D1\_1



200512D1\_1

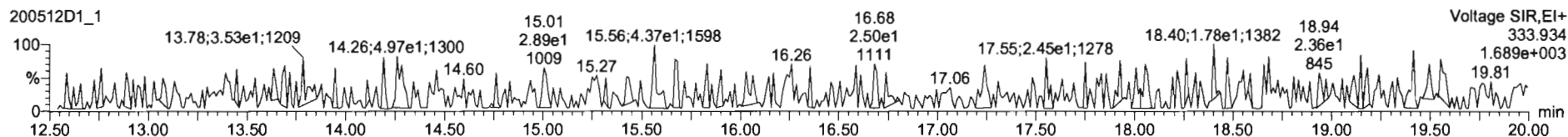
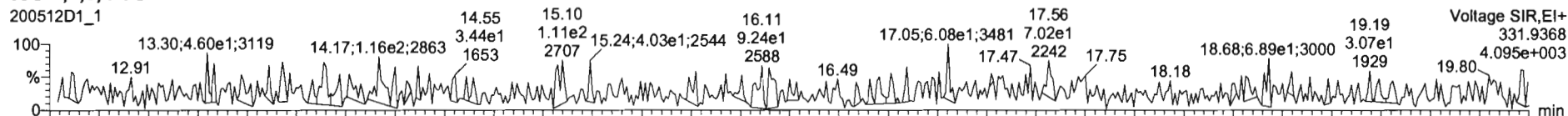


Dataset: U:\VG7.PRO\Results\200512D1\200512D1\_1.qld

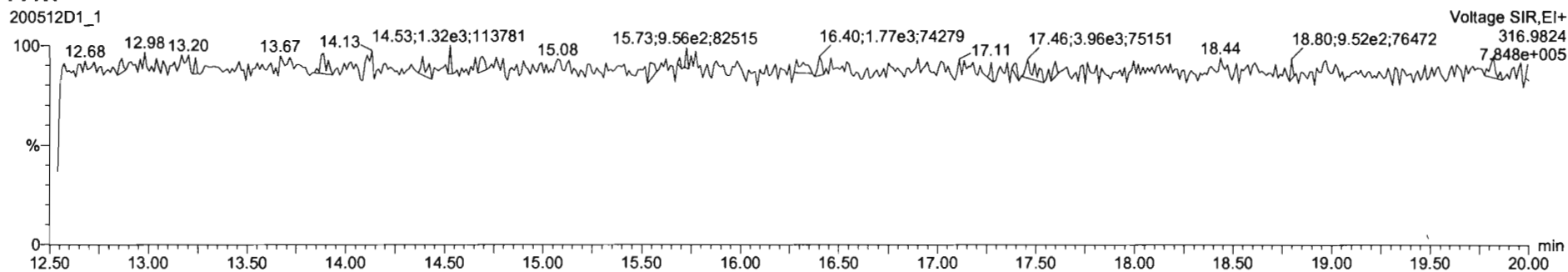
Last Altered: Tuesday, May 12, 2020 11:45:20 Pacific Daylight Time  
Printed: Tuesday, May 12, 2020 11:46:29 Pacific Daylight Time

Name: 200512D1\_1, Date: 12-May-2020, Time: 10:53:43, ID: CP200512D1-1 DB-225 CPSM, Description: DB-225 CPSM

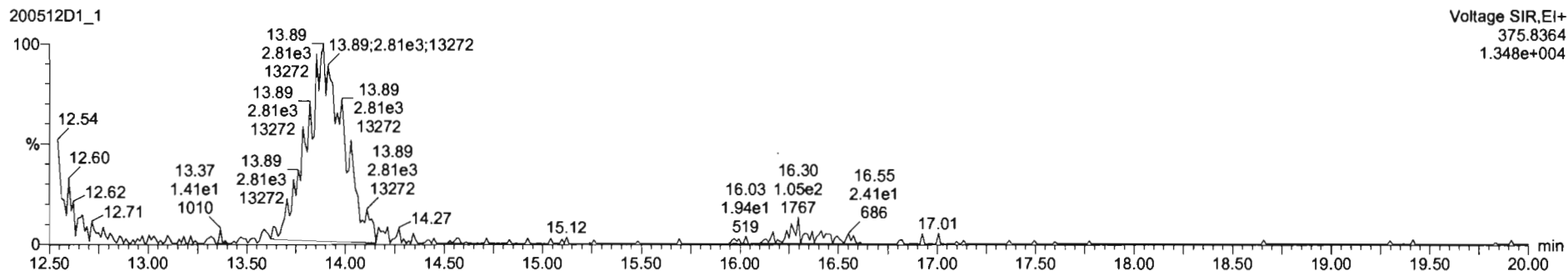
13C-1,2,3,4-TCDD



PFK1



DPE1



Dataset: U:\VG7.PRO\Results\200512D1\200512D1\_2.qld

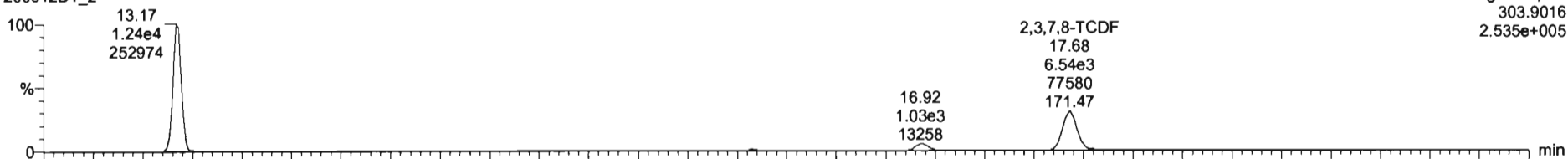
Last Altered: Tuesday, May 12, 2020 11:47:45 Pacific Daylight Time  
Printed: Tuesday, May 12, 2020 11:48:42 Pacific Daylight Time

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

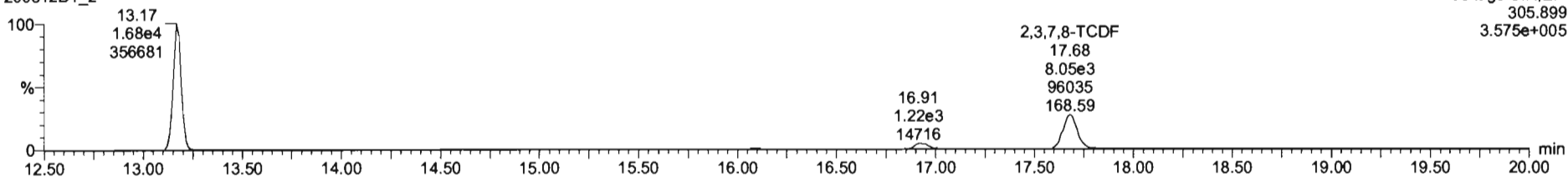
Name: 200512D1\_2, Date: 12-May-2020, Time: 11:23:51, ID: ST200512D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDF

200512D1\_2

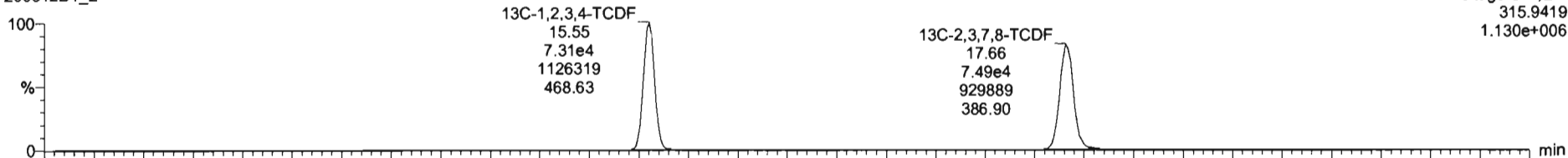


200512D1\_2

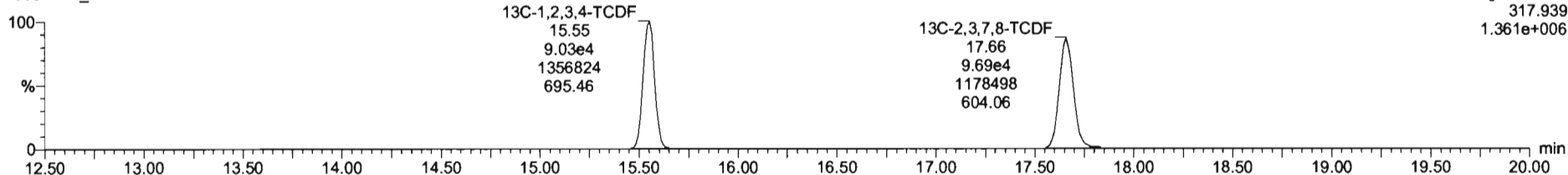


13C-2,3,7,8-TCDF

200512D1\_2



200512D1\_2



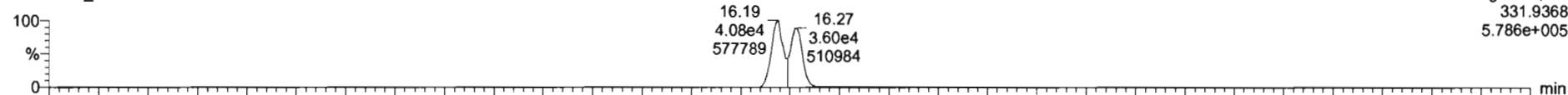
Dataset: U:\VG7.PRO\Results\200512D1\200512D1\_2.qld

Last Altered: Tuesday, May 12, 2020 11:47:45 Pacific Daylight Time  
Printed: Tuesday, May 12, 2020 11:48:42 Pacific Daylight Time

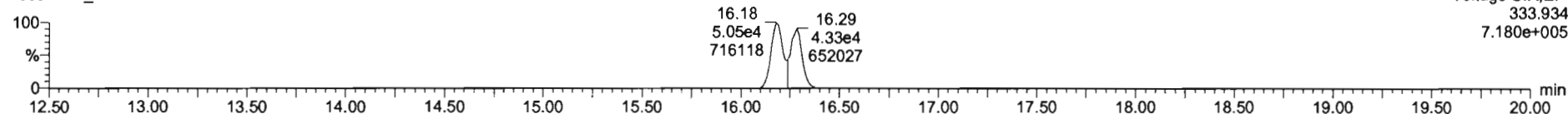
Name: 200512D1\_2, Date: 12-May-2020, Time: 11:23:51, ID: ST200512D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200512D1\_2

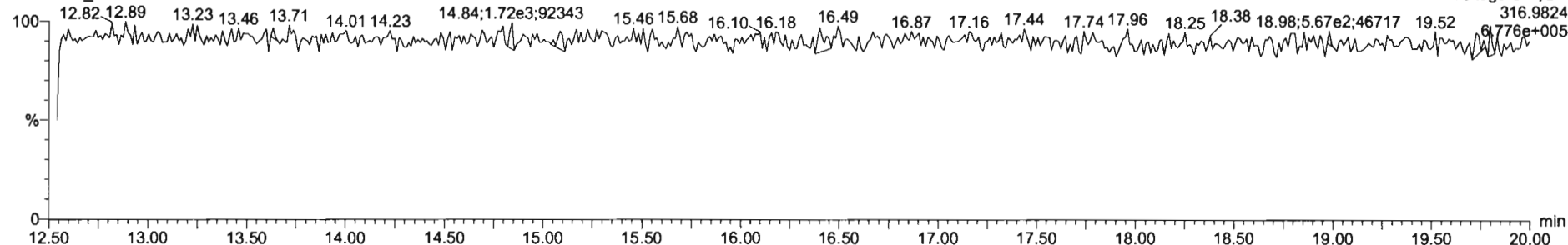


200512D1\_2



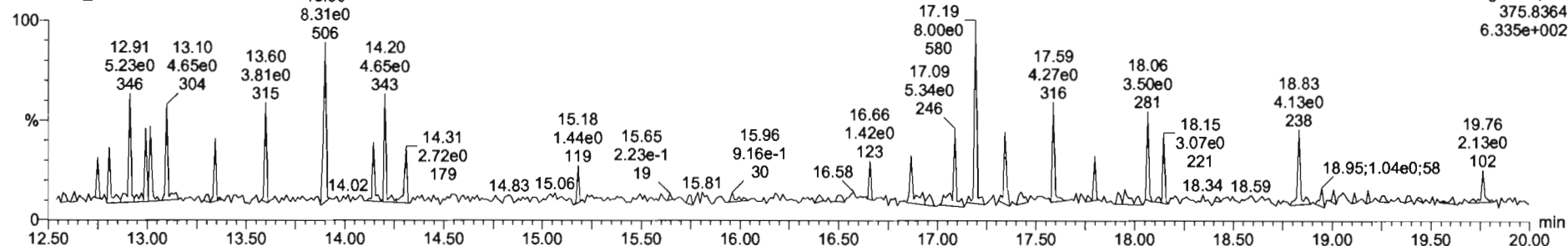
PFK1

200512D1\_2



DPE1

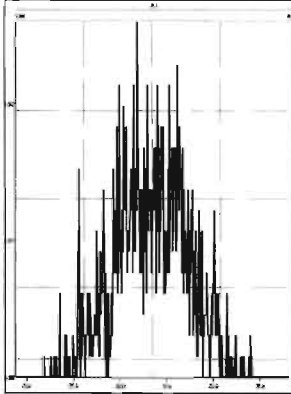
200512D1\_2



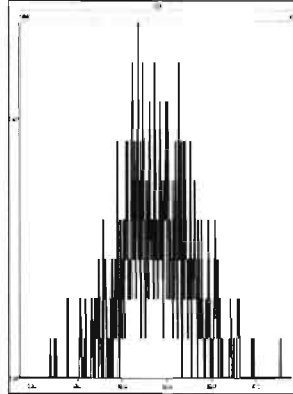
File: Experiment: tcdf\_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, May 12, 2020 18:45:56 Pacific Daylight Time

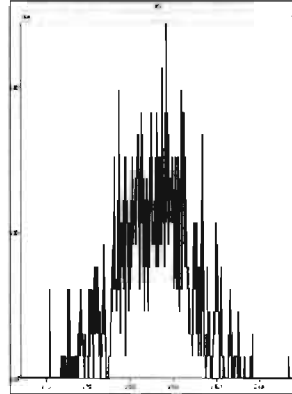
M 292.9824 R 10819



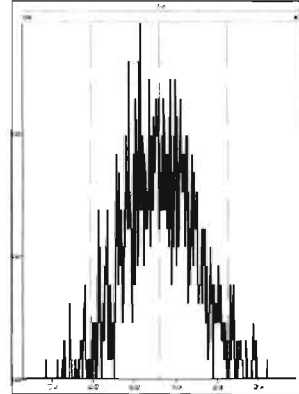
M 304.9824 R 13514



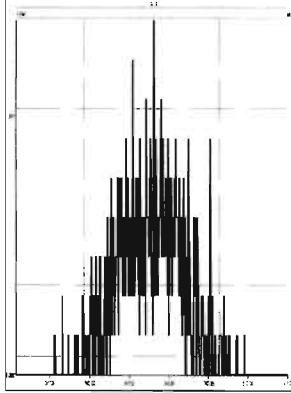
M 318.9792 R 14043



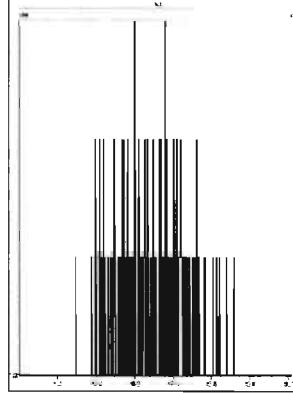
M 330.9792 R 12312



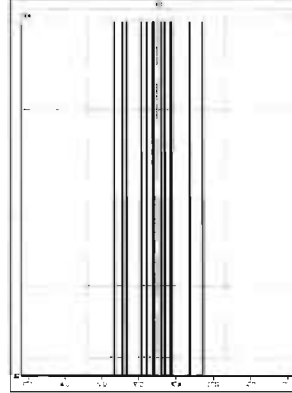
M 342.9792 R 12500



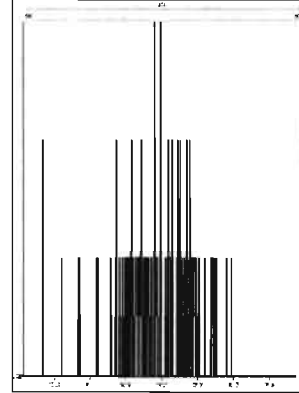
M 354.9792 R 249974



M 366.9792 R 833124



M 380.9760 R 833368



# HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

**Beg. Calibration ID:** ST200520D1-1

**Reviewed By:** OT 05/21/2020  
*Initials & Date*

**End Calibration ID:** NA

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

	<u>Beg.</u>	<u>End</u>
<b>Mass resolution ≥</b>	<input checked="" type="checkbox"/> A	<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		
<b>Intergrated peaks display correctly?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
<b>GC Break &lt;20%</b>	<input type="checkbox"/>	<input type="checkbox"/> NA
<b>8280 CS1 End Standard:</b>		
- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		<input type="checkbox"/> NA

**Comments:**  
 INSTRUMENT WENT INTO 'PAUSE' FOR AN UNKNOWN REASON.  
 END) RES CHECK PRINTED OUT IN THE MORNING.  
 A) PFK drain

Dataset: U:\VG7.PRO\Results\200520D1\200520D1\_2.qld

Last Altered: Wednesday, May 20, 2020 13:31:55 Pacific Daylight Time  
Printed: Wednesday, May 20, 2020 13:32:21 Pacific Daylight Time

*DB 5/20/20 C105/20/2020*

Method: C:\MassLynx\Default.pro\Methdb\lctcdf.mdb 23 Mar 2020 11:10:19  
Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdvfg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200520D1\_2, Date: 20-May-2020, Time: 13:04:49, ID: ST200520D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	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	1.30e3	0.86	NO	0.982	1.000	17.620	17.60	1.000	1.000	9.1634	91.6	0.845	9.16
2	2 13C-2,3,7,8-TCDF	1.44e4	0.78	NO	1.08	1.000	17.654	17.60	1.133	1.136	105.58	106	2.66	
3	3 13C-1,2,3,4-TCDF	1.26e4	0.88	NO	1.00	1.000	15.660	15.49	1.000	1.000	100.00	100	2.88	

Dataset: Untitled

Last Altered: Thursday, May 21, 2020 09:16:49 Pacific Daylight Time  
Printed: Thursday, May 21, 2020 09:17:06 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19  
Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

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

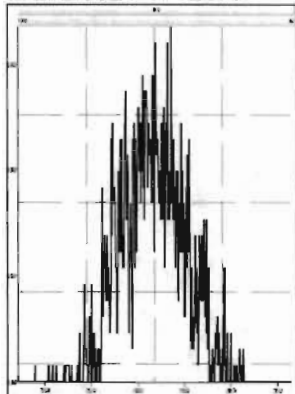
	Name	ID	Acq.Date	Acq.Time
1	200520D1_1	CP200520D1-1 DB-225 CPSM	20-May-20	12:34:41
2	200520D1_2	ST200520D1-1 1613 CS3 19L2305	20-May-20	13:04:49
3	200520D1_3	SOLVENT BLANK	20-May-20	13:36:33
4	200520D1_4	2000951-03RE2 PDI-159SC-A-01-02-200423 ...	20-May-20	14:08:18
5	200520D1_5	2000830-01RE1 Dredging Feed Slurry 59.86	20-May-20	14:39:59
6	200520D1_6	2000830-02RE1 Dredging Cake/Product 41.01	20-May-20	15:11:41
7	200520D1_7	2000946-01RE1 PDI-162SC-A-00-01-200424 ...	20-May-20	15:43:24
8	200520D1_8	2000946-02RE1 PDI-162SC-A-02-03-200424 ...	20-May-20	16:15:08
9	200520D1_9	2000946-03RE1 PDI-162SC-A-03-04-200424 ...	20-May-20	16:46:50
10	200520D1_10	2000946-04RE1 PDI-162SC-A-04-05-200424 ...	20-May-20	17:18:33
11	200520D1_11	2000932-20RE3 SD-0033 26.4	20-May-20	17:50:15
12	200520D1_12	2000953-02RE2 PDI-165SC-A-01-02-200426 ...	20-May-20	18:21:56
13	200520D1_13	2000931-01RE4 Biosolid Composite 27.85	20-May-20	18:53:38
14	200520D1_14	2000950-10RE1 PDI-158SC-A-00-01-200423 ...	20-May-20	19:25:21
15	200520D1_15	B0E0019DUP1RE1 Duplicate	20-May-20	19:57:03
16	200520D1_16	2000976-01RE1 PDI-153SC-A-00-01-200427 ...	20-May-20	20:28:46
17	200520D1_17	2000957-01RE1 PDI-1147SC-A-13-14-200425...	20-May-20	21:00:27
18	200520D1_18	2000957-02RE1 PDI-147SC-A-00-01-200425 ...	20-May-20	21:32:10
19	200520D1_19	2000957-03RE1 PDI-147SC-A-05-06-200425 ...	20-May-20	22:03:53



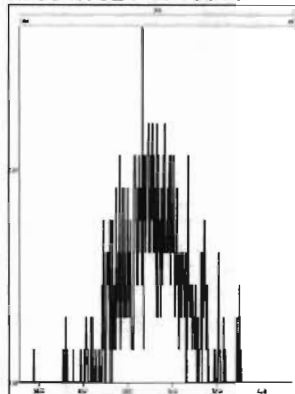
File: Experiment: tcdf\_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, May 20, 2020 12:33:36 Pacific Daylight Time

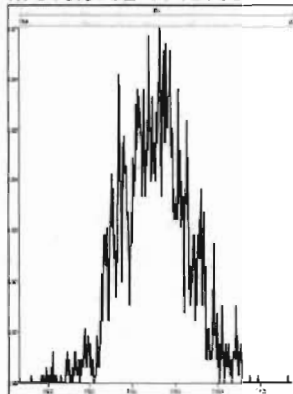
M 292.9824 R 12079



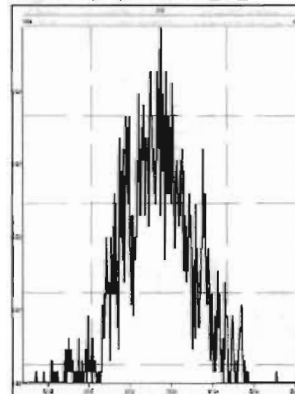
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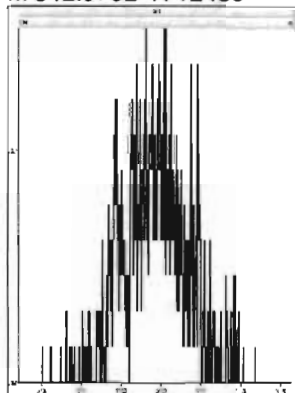
M 318.9792 R 10963



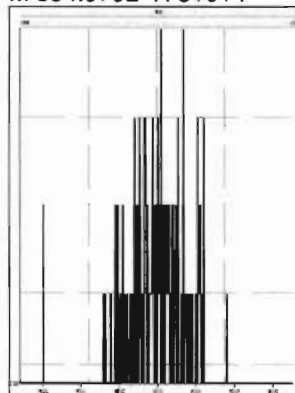
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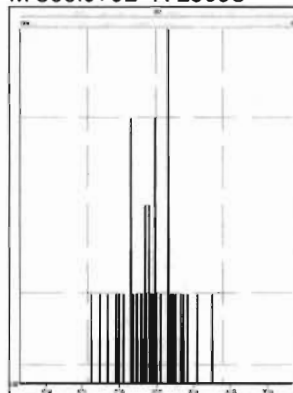
M 342.9792 R 12438



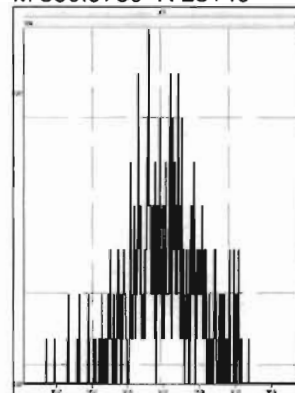
M 354.9792 R 51014

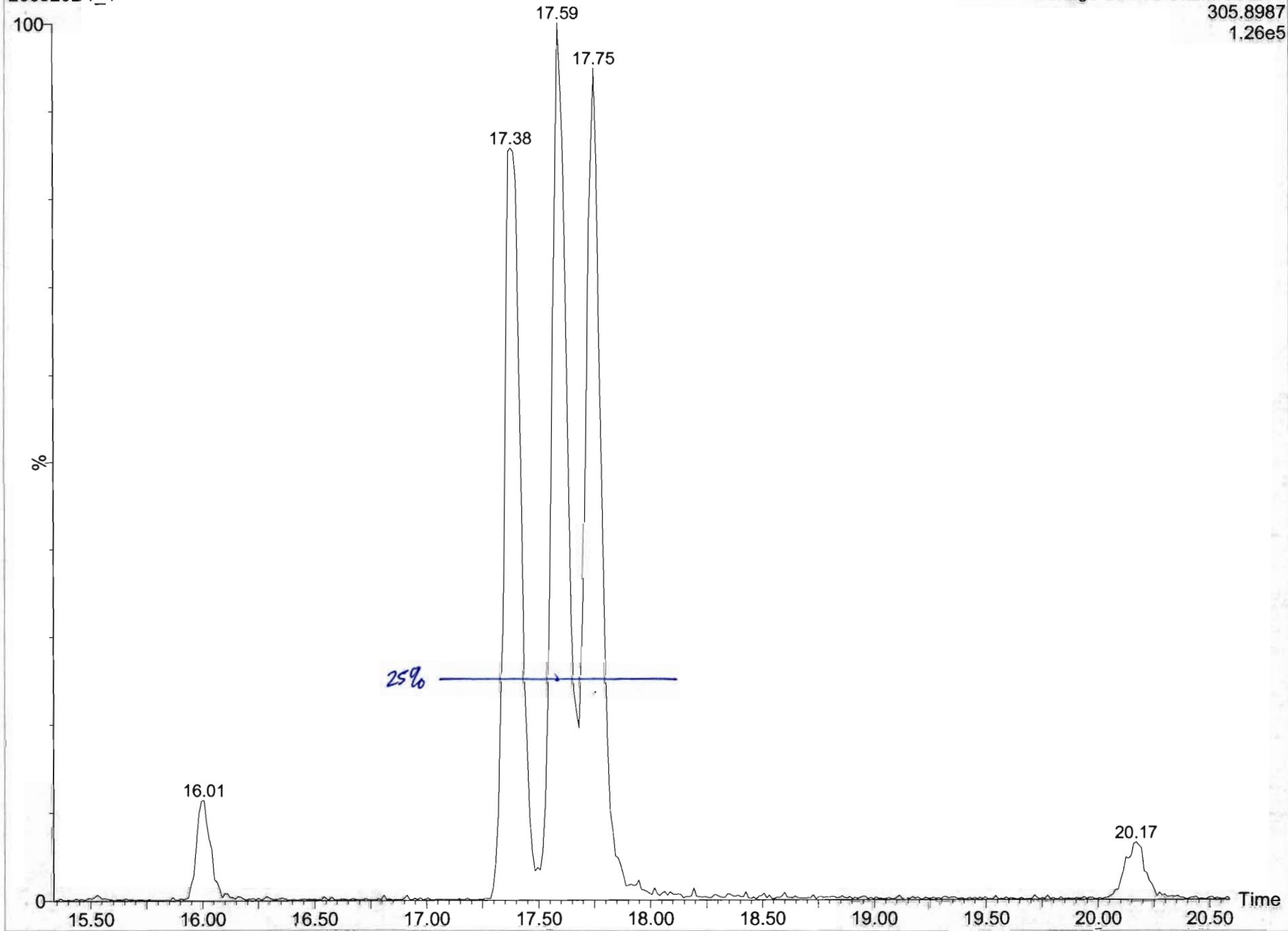


M 366.9792 R 28093



M 380.9760 R 23149



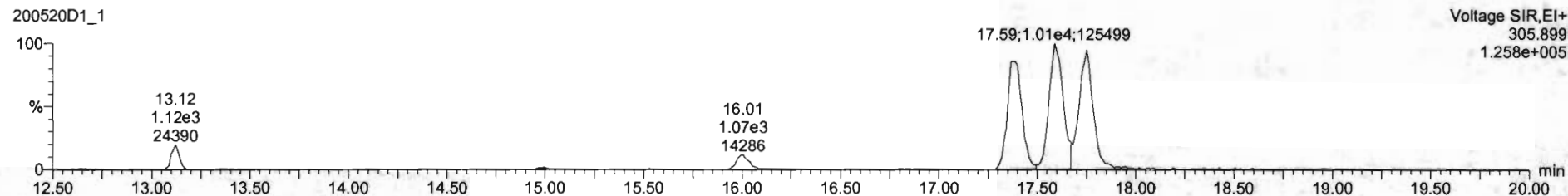
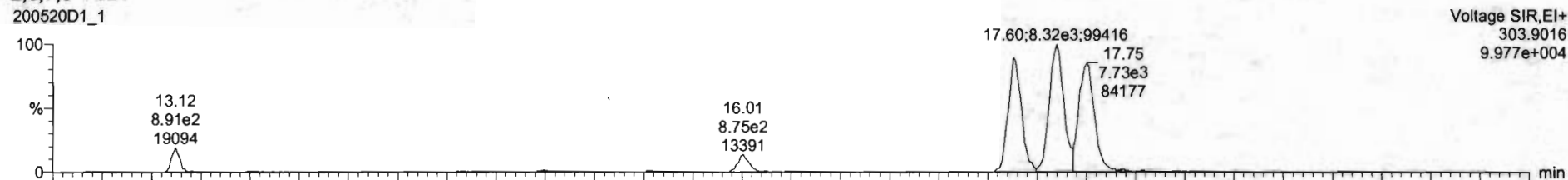


Dataset: U:\VG7.PRO\Results\200520D1\200520D1\_1.qld  
Last Altered: Wednesday, May 20, 2020 13:34:05 Pacific Daylight Time  
Printed: Wednesday, May 20, 2020 13:35:13 Pacific Daylight Time

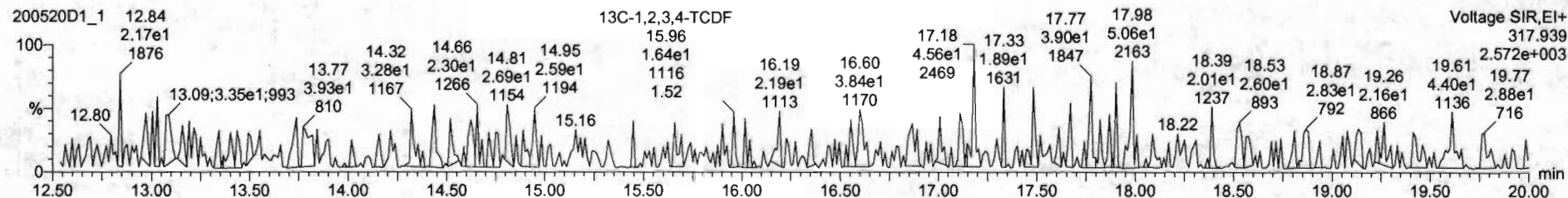
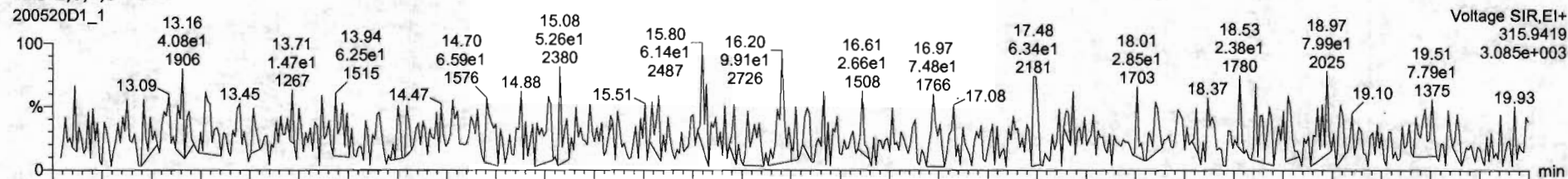
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19  
Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200520D1\_1, Date: 20-May-2020, Time: 12:34:41, ID: CP200520D1-1 DB-225 CPSM, Description: DB-225 CPSM

2,3,7,8-TCDF



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

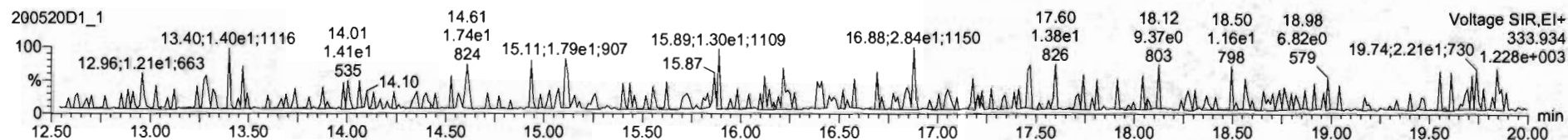
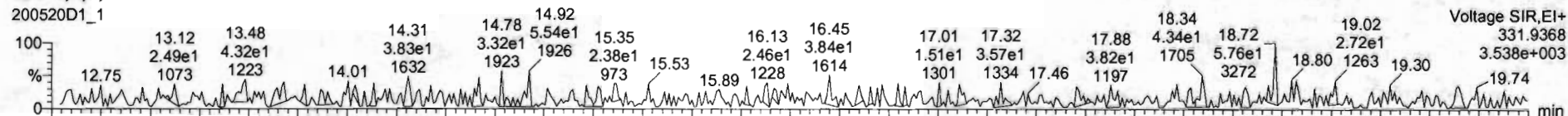


Dataset: U:\VG7.PRO\Results\200520D1\200520D1\_1.qld

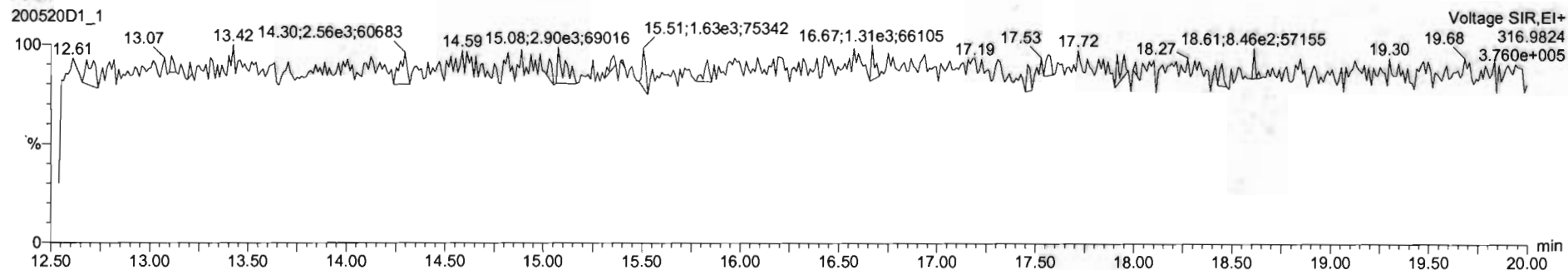
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Printed: Wednesday, May 20, 2020 13:35:13 Pacific Daylight Time

Name: 200520D1\_1, Date: 20-May-2020, Time: 12:34:41, ID: CP200520D1-1 DB-225 CPSM, Description: DB-225 CPSM

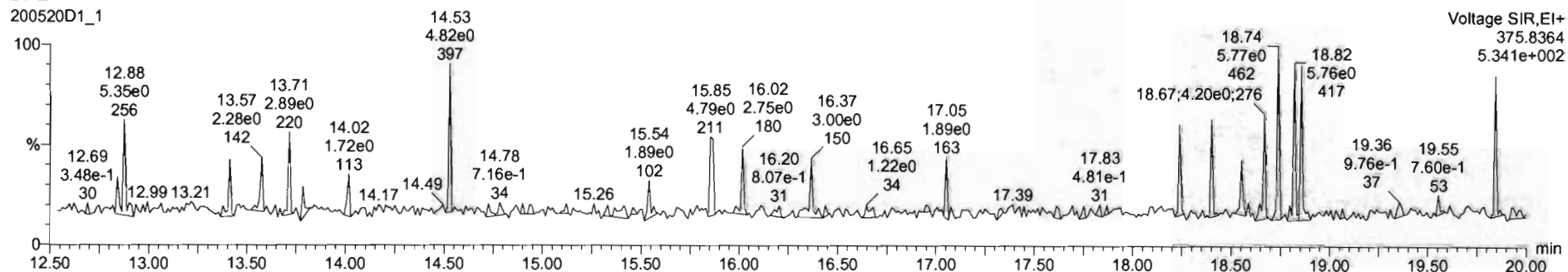
13C-1,2,3,4-TCDD



PFK1



DPE1



Dataset: U:\VG7.PRO\Results\200520D1\200520D1\_2.qld

Last Altered: Wednesday, May 20, 2020 13:28:23 Pacific Daylight Time

Printed: Wednesday, May 20, 2020 13:31:23 Pacific Daylight Time

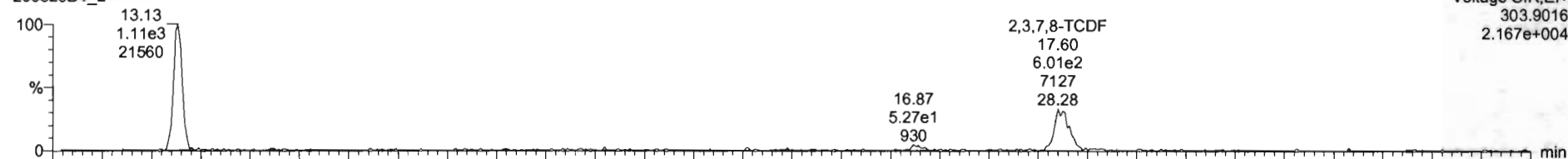
Method: C:\MassLynx\Default.pro\Methdb\tcdf.mdb 23 Mar 2020 11:10:19

Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

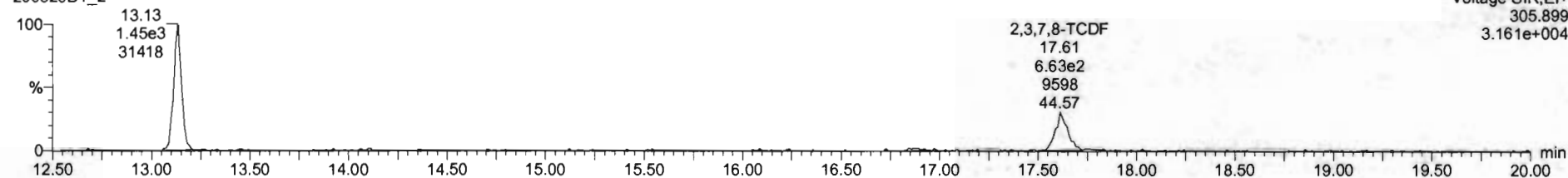
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**2,3,7,8-TCDF**

200520D1\_2

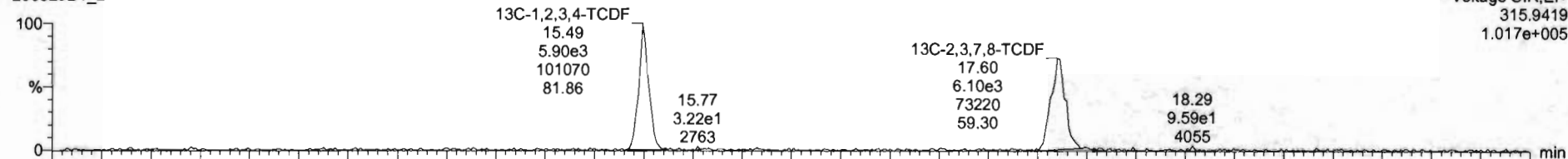


200520D1\_2

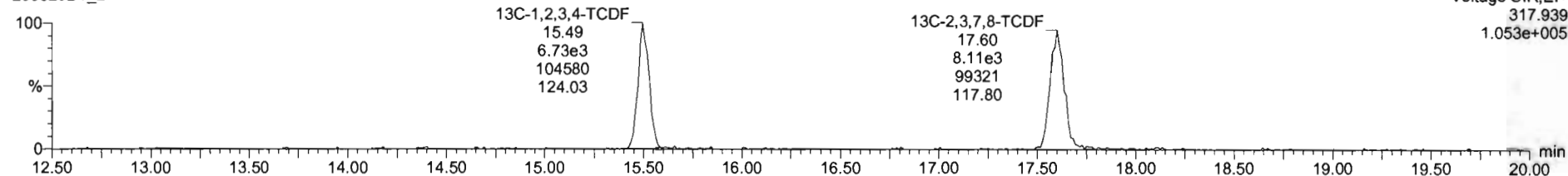


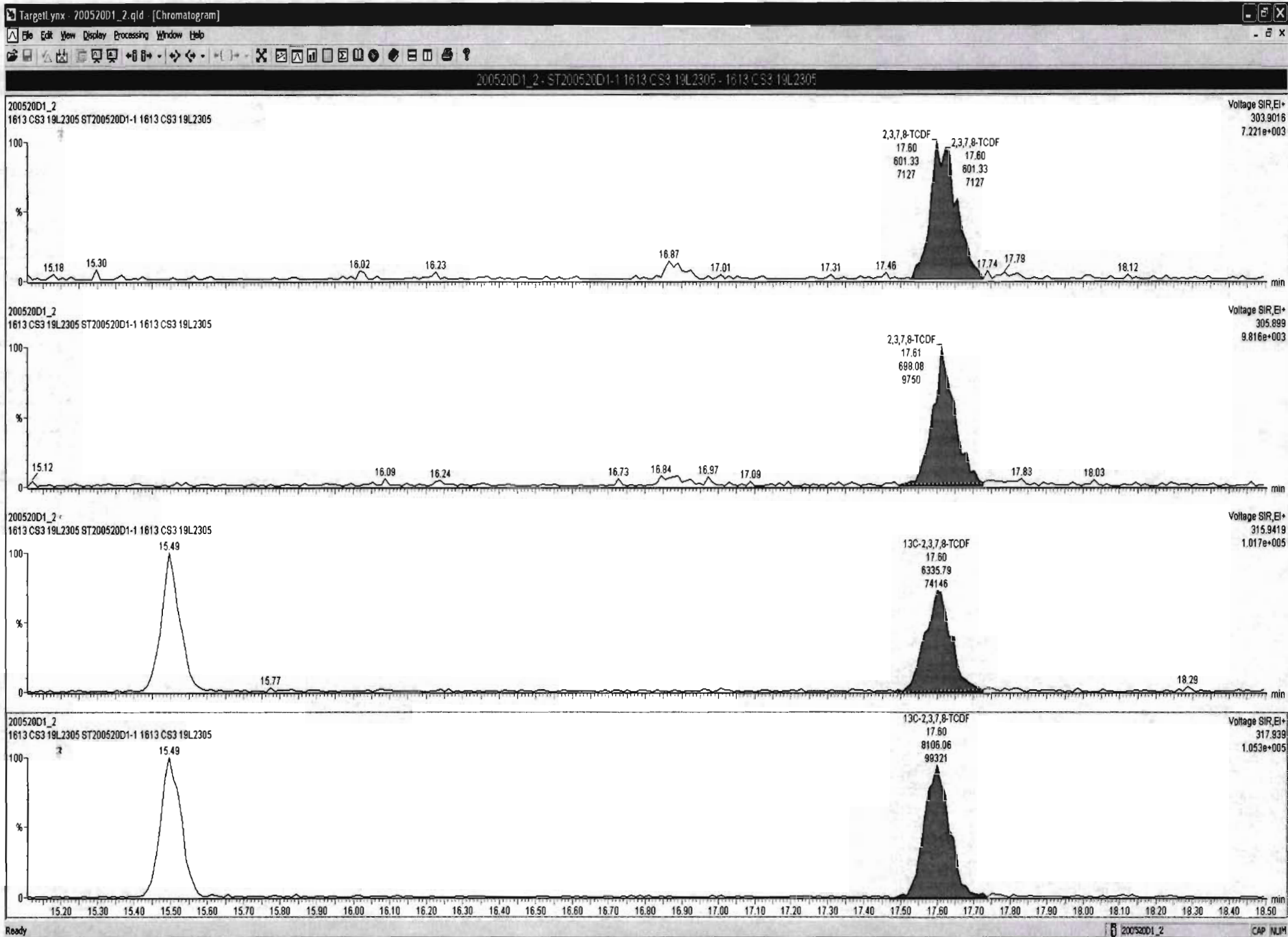
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200520D1\_2



200520D1\_2





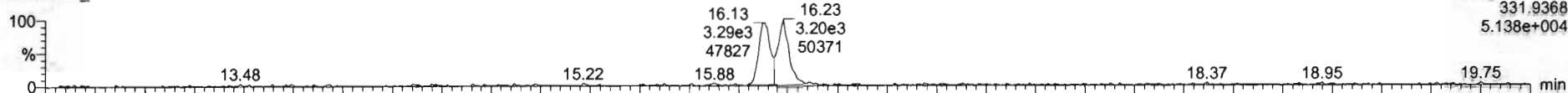
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Printed: Wednesday, May 20, 2020 13:31:23 Pacific Daylight Time

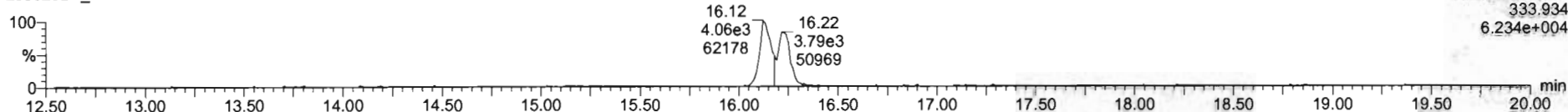
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1. C-1,2,3,4-TCDD

200520D1\_2

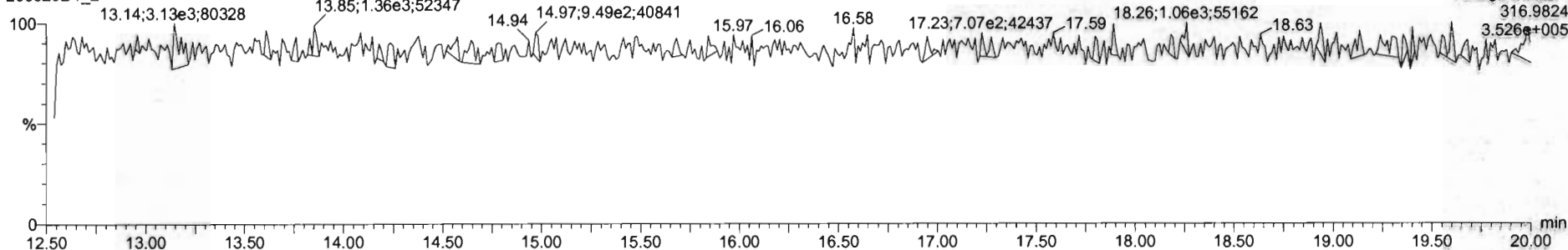


200520D1\_2



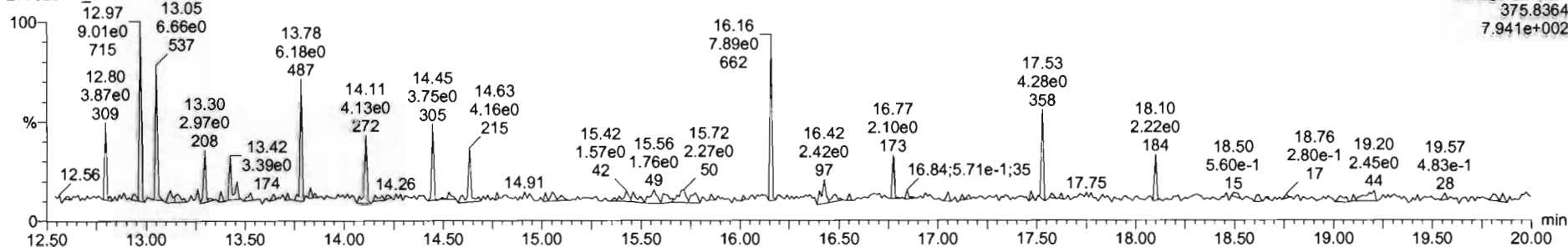
PFK1

200520D1\_2



DPE1

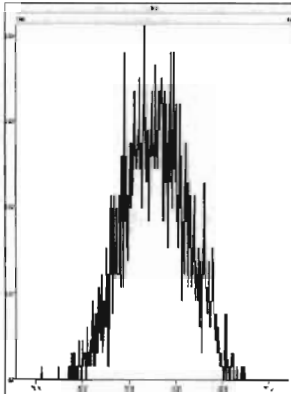
200520D1\_2



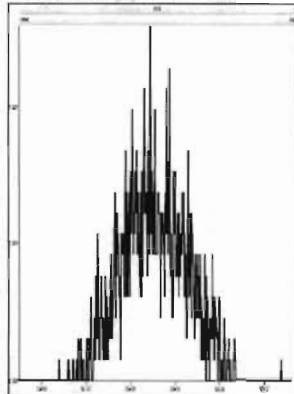
File: Experiment: tcdf\_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, May 21, 2020 09:18:23 Pacific Daylight Time

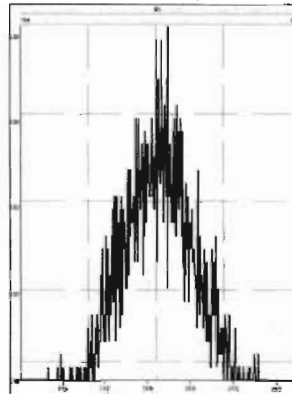
M 292.9824 R 9960



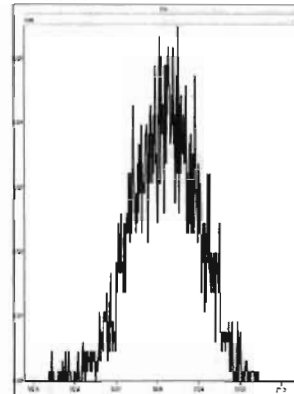
M 304.9824 R 11686



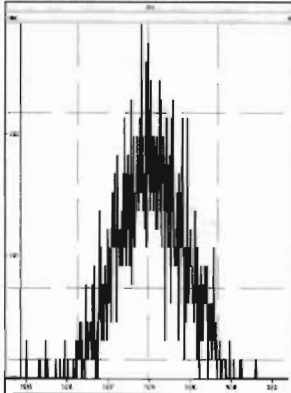
M 318.9792 R 10866



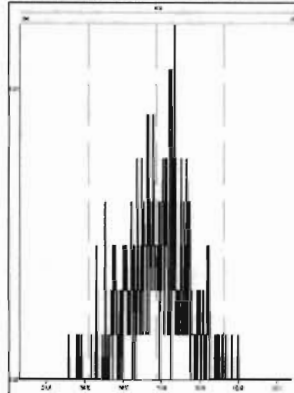
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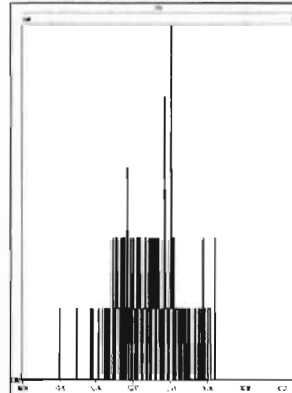
M 342.9792 R 11847



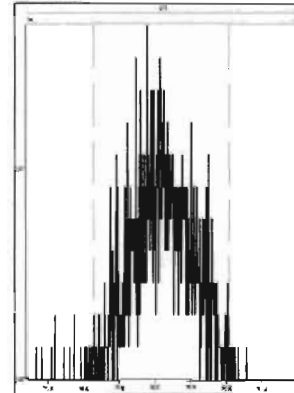
M 354.9792 R 14120



M 366.9792 R 38462



M 380.9760 R 12624





## **INITIAL CALIBRATION**

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-CRV.qld

Last Altered: Thursday, April 30, 2020 7:35:23 AM Pacific Daylight Time

Printed: Thursday, April 30, 2020 7:56:51 AM Pacific Daylight Time

GRB 04/30/2020

CT 04/30/2020

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

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

Response Factor: 0.947465

RRF SD: 0.050672, Relative SD: 5.34817

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	200429R2_1	0.250	0.81	NO	26.07	1.002	3.67e3	1.71e6	0.227	-9.3	0.859	MM
2	200429R2_2	0.500	0.73	NO	26.05	1.001	6.88e3	1.49e6	0.486	-2.8	0.921	MM
3	200429R2_3	2.00	0.80	NO	26.05	1.001	2.77e4	1.43e6	2.04	2.1	0.968	MM
4	200429R2_4	10.0	0.76	NO	26.07	1.001	1.43e5	1.49e6	10.1	0.8	0.955	db
5	200429R2_5	40.0	0.79	NO	26.07	1.001	6.85e5	1.74e6	41.5	3.8	0.983	bb
6	200429R2_6	300	0.78	NO	26.05	1.001	6.08e6	2.03e6	316	5.4	0.998	bb

Compound name: 1,2,3,7,8-PeCDD

Response Factor: 0.942465

RRF SD: 0.0519271, Relative SD: 5.50971

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	200429R2_1	1.25	0.59	NO	31.13	1.000	1.26e4	1.18e6	1.13	-9.9	0.849	MM
2	200429R2_2	2.50	0.61	NO	31.14	1.000	2.41e4	1.02e6	2.49	-0.4	0.939	bb
3	200429R2_3	10.0	0.62	NO	31.13	1.000	9.99e4	9.92e5	10.7	6.8	1.01	bb
4	200429R2_4	50.0	0.62	NO	31.13	1.000	5.37e5	1.14e6	49.9	-0.2	0.941	bb
5	200429R2_5	200	0.63	NO	31.14	1.000	2.46e6	1.29e6	202	1.0	0.952	bb
6	200429R2_6	1500	0.63	NO	31.13	1.000	2.34e7	1.61e6	1540	2.6	0.967	bb

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-CRV.qld

Last Altered: Thursday, April 30, 2020 7:35:23 AM Pacific Daylight Time  
 Printed: Thursday, April 30, 2020 7:56:51 AM Pacific Daylight Time

**Compound name: 1,2,3,4,7,8-HxCDD**

Response Factor: 1.06409

RRF SD: 0.0704393, Relative SD: 6.61967

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	200429R2_1	1.25	1.23	NO	34.49	1.000	1.06e4	9.05e5	1.10	-12.2	0.934	bd
2	200429R2_2	2.50	1.24	NO	34.51	1.000	2.05e4	7.45e5	2.58	3.2	1.10	bd
3	200429R2_3	10.0	1.25	NO	34.49	1.000	8.24e4	7.52e5	10.3	3.1	1.10	bd
4	200429R2_4	50.0	1.22	NO	34.51	1.000	4.42e5	8.49e5	48.9	-2.2	1.04	MM
5	200429R2_5	200	1.23	NO	34.51	1.000	2.14e6	9.92e5	203	1.5	1.08	bd
6	200429R2_6	1500	1.23	NO	34.49	1.000	2.19e7	1.29e6	1600	6.6	1.13	bd

**Compound name: 1,2,3,6,7,8-HxCDD**

Response Factor: 0.914514

RRF SD: 0.0597197, Relative SD: 6.53021

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	200429R2_1	1.25	1.18	NO	34.60	1.000	1.19e4	1.16e6	1.12	-10.3	0.820	db
2	200429R2_2	2.50	1.19	NO	34.60	1.000	2.18e4	9.85e5	2.42	-3.1	0.886	db
3	200429R2_3	10.0	1.26	NO	34.60	1.000	9.42e4	9.49e5	10.8	8.4	0.992	db
4	200429R2_4	50.0	1.20	NO	34.60	1.000	4.89e5	1.08e6	49.6	-0.9	0.906	MM
5	200429R2_5	200	1.23	NO	34.61	1.000	2.38e6	1.24e6	210	5.0	0.960	db
6	200429R2_6	1500	1.24	NO	34.60	1.001	2.35e7	1.70e6	1510	0.9	0.922	db

**Compound name: 1,2,3,7,8,9-HxCDD**

Response Factor: 0.914931

RRF SD: 0.0698725, Relative SD: 7.63691

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	200429R2_1	1.25	1.17	NO	34.87	1.000	9.95e3	1.02e6	1.07	-14.6	0.782	MM
2	200429R2_2	2.50	1.21	NO	34.88	1.000	1.98e4	8.50e5	2.55	1.9	0.933	MM

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-CRV.qld

Last Altered: Thursday, April 30, 2020 7:35:23 AM Pacific Daylight Time

Printed: Thursday, April 30, 2020 7:56:51 AM Pacific Daylight Time

**Compound name: 1,2,3,7,8,9-HxCDD**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200429R2_3	10.0	1.24	NO	34.88	1.001	8.11e4	8.34e5	10.6	6.3	0.973	bb
4	200429R2_4	50.0	1.24	NO	34.88	1.000	4.19e5	9.34e5	49.1	-1.8	0.898	bb
5	200429R2_5	200	1.24	NO	34.89	1.001	2.07e6	1.09e6	208	4.2	0.953	bb
6	200429R2_6	1500	1.23	NO	34.87	1.000	2.08e7	1.46e6	1560	4.0	0.951	bb

**Compound name: 1,2,3,4,6,7,8-HpCDD**

Response Factor: 0.897908

RRF SD: 0.0622499, Relative SD: 6.93277

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	200429R2_1	1.25	1.08	NO	38.38	1.001	7.93e3	8.17e5	1.08	-13.5	0.777	bb
2	200429R2_2	2.50	1.01	NO	38.37	1.000	1.48e4	6.60e5	2.50	-0.2	0.896	MM
3	200429R2_3	10.0	1.08	NO	38.36	1.000	5.91e4	6.39e5	10.3	3.1	0.925	bd
4	200429R2_4	50.0	0.99	NO	38.38	1.000	3.08e5	6.79e5	50.5	1.0	0.907	bb
5	200429R2_5	200	1.02	NO	38.38	1.000	1.52e6	8.11e5	208	4.1	0.934	bb
6	200429R2_6	1500	1.02	NO	38.37	1.001	1.60e7	1.13e6	1580	5.6	0.948	bb

**Compound name: OCDD**

Response Factor: 0.93349

RRF SD: 0.0706604, Relative SD: 7.56949

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	200429R2_1	2.50	0.86	NO	41.35	1.000	1.41e4	1.42e6	2.13	-14.8	0.796	MM
2	200429R2_2	5.00	0.91	NO	41.35	1.000	2.79e4	1.21e6	4.96	-0.8	0.926	bd
3	200429R2_3	20.0	0.88	NO	41.34	1.000	1.08e5	1.10e6	21.2	5.8	0.988	MM
4	200429R2_4	100	0.88	NO	41.35	1.000	5.63e5	1.18e6	102	2.5	0.957	MM
5	200429R2_5	400	0.90	NO	41.35	1.000	2.87e6	1.50e6	411	2.7	0.959	MM
6	200429R2_6	3000	0.89	NO	41.34	1.000	3.39e7	2.31e6	3140	4.6	0.976	MM

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-CRV.qld

Last Altered: Thursday, April 30, 2020 7:35:23 AM Pacific Daylight Time  
 Printed: Thursday, April 30, 2020 7:56:51 AM Pacific Daylight Time

**Compound name: 2,3,7,8-TCDF**

Response Factor: 0.787102

RRF SD: 0.0402419, Relative SD: 5.11266

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	200429R2_1	0.250	0.82	NO	25.09	1.001	4.51e3	2.52e6	0.228	-8.9	0.717	MM
2	200429R2_2	0.500	0.75	NO	25.11	1.001	8.73e3	2.22e6	0.501	0.1	0.788	MM
3	200429R2_3	2.00	0.74	NO	25.11	1.001	3.42e4	2.09e6	2.08	4.1	0.820	bb
4	200429R2_4	10.0	0.74	NO	25.11	1.001	1.65e5	2.15e6	9.76	-2.4	0.768	bb
5	200429R2_5	40.0	0.75	NO	25.12	1.001	8.12e5	2.52e6	41.0	2.4	0.806	bb
6	200429R2_6	300	0.75	NO	25.09	1.001	7.19e6	2.91e6	314	4.7	0.824	bb

**Compound name: 1,2,3,7,8-PeCDF**

Response Factor: 0.910199

RRF SD: 0.0533229, Relative SD: 5.85838

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	200429R2_1	1.25	1.63	NO	29.81	1.000	1.97e4	1.94e6	1.12	-10.8	0.812	MM
2	200429R2_2	2.50	1.54	NO	29.83	1.000	3.85e4	1.69e6	2.50	0.1	0.911	MM
3	200429R2_3	10.0	1.57	NO	29.81	1.000	1.60e5	1.64e6	10.7	7.0	0.974	bb
4	200429R2_4	50.0	1.59	NO	29.81	1.000	8.46e5	1.86e6	50.0	0.0	0.910	bb
5	200429R2_5	200	1.55	NO	29.83	1.000	3.84e6	2.07e6	203	1.7	0.926	bb
6	200429R2_6	1500	1.56	NO	29.81	1.000	3.59e7	2.58e6	1530	1.9	0.928	bb

**Compound name: 2,3,4,7,8-PeCDF**

Response Factor: 0.96636

RRF SD: 0.0480881, Relative SD: 4.97621

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	200429R2_1	1.25	1.49	NO	30.80	1.000	2.03e4	1.84e6	1.14	-8.8	0.881	MM
2	200429R2_2	2.50	1.53	NO	30.82	1.000	3.90e4	1.62e6	2.50	-0.1	0.966	MM

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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	200429R2_3	10.0	1.60	NO	30.80	1.000	1.61e5	1.57e6	10.6	6.4	1.03	bb
4	200429R2_4	50.0	1.56	NO	30.80	1.000	8.75e5	1.82e6	49.8	-0.4	0.962	bb
5	200429R2_5	200	1.55	NO	30.82	1.000	3.97e6	2.01e6	204	2.1	0.987	bb
6	200429R2_6	1500	1.54	NO	30.81	1.000	3.66e7	2.51e6	1510	0.7	0.973	bb

Compound name: 1,2,3,4,7,8-HxCDF

Response Factor: 0.878238

RRF SD: 0.066642, Relative SD: 7.58815

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	200429R2_1	1.25	1.13	NO	33.64	1.001	1.14e4	1.22e6	1.06	-14.9	0.748	bd
2	200429R2_2	2.50	1.21	NO	33.64	1.000	2.26e4	1.02e6	2.52	0.9	0.886	bd
3	200429R2_3	10.0	1.22	NO	33.63	1.000	9.51e4	1.02e6	10.6	6.4	0.935	bd
4	200429R2_4	50.0	1.22	NO	33.64	1.000	5.03e5	1.13e6	50.6	1.1	0.888	bd
5	200429R2_5	200	1.19	NO	33.64	1.000	2.34e6	1.31e6	204	2.1	0.896	bd
6	200429R2_6	1500	1.19	NO	33.63	1.000	2.35e7	1.71e6	1570	4.4	0.917	bd

Compound name: 1,2,3,6,7,8-HxCDF

Response Factor: 0.873971

RRF SD: 0.0632141, Relative SD: 7.23298

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	200429R2_1	1.25	1.23	NO	33.76	1.001	1.35e4	1.41e6	1.09	-12.6	0.763	MM
2	200429R2_2	2.50	1.19	NO	33.76	1.000	2.55e4	1.18e6	2.46	-1.4	0.861	db
3	200429R2_3	10.0	1.20	NO	33.76	1.001	1.09e5	1.14e6	11.0	9.5	0.957	dd
4	200429R2_4	50.0	1.17	NO	33.76	1.000	5.58e5	1.26e6	50.6	1.2	0.885	db
5	200429R2_5	200	1.19	NO	33.77	1.001	2.62e6	1.46e6	205	2.7	0.897	db
6	200429R2_6	1500	1.19	NO	33.75	1.000	2.52e7	1.91e6	1510	0.7	0.880	db

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**Compound name: 2,3,4,6,7,8-HxCDF**

Response Factor: 0.921711

RRF SD: 0.0708547, Relative SD: 7.6873

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	200429R2_1	1.25	1.14	NO	34.32	1.000	1.24e4	1.26e6	1.07	-14.7	0.786	bb
2	200429R2_2	2.50	1.16	NO	34.33	1.001	2.38e4	1.05e6	2.46	-1.5	0.908	MM
3	200429R2_3	10.0	1.22	NO	34.32	1.000	1.02e5	1.03e6	10.7	7.1	0.987	bb
4	200429R2_4	50.0	1.17	NO	34.33	1.000	5.42e5	1.14e6	51.6	3.2	0.951	bb
5	200429R2_5	200	1.19	NO	34.33	1.000	2.49e6	1.31e6	206	3.0	0.950	bb
6	200429R2_6	1500	1.19	NO	34.33	1.000	2.48e7	1.74e6	1540	2.9	0.948	bb

**Compound name: 1,2,3,7,8,9-HxCDF**

Response Factor: 0.864187

RRF SD: 0.0516808, Relative SD: 5.98028

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	200429R2_1	1.25	1.22	NO	35.21	1.000	9.52e3	9.91e5	1.11	-11.0	0.769	MM
2	200429R2_2	2.50	1.21	NO	35.21	1.000	1.86e4	8.77e5	2.45	-1.8	0.848	MM
3	200429R2_3	10.0	1.22	NO	35.21	1.000	7.78e4	8.59e5	10.5	4.9	0.906	bb
4	200429R2_4	50.0	1.17	NO	35.22	1.000	4.02e5	9.29e5	50.1	0.2	0.866	bb
5	200429R2_5	200	1.19	NO	35.22	1.000	1.99e6	1.11e6	207	3.7	0.896	bb
6	200429R2_6	1500	1.20	NO	35.21	1.000	1.98e7	1.47e6	1560	4.0	0.899	bb

**Compound name: 1,2,3,4,6,7,8-HpCDF**

Response Factor: 0.871204

RRF SD: 0.0656544, Relative SD: 7.53606

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	200429R2_1	1.25	0.99	NO	36.94	1.000	8.60e3	9.24e5	1.07	-14.5	0.745	MM
2	200429R2_2	2.50	1.00	NO	36.97	1.001	1.73e4	7.84e5	2.54	1.5	0.884	MM

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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	200429R2_3	10.0	0.95	NO	36.96	1.000	6.95e4	7.69e5	10.4	3.7	0.903	MM
4	200429R2_4	50.0	0.96	NO	36.97	1.000	3.72e5	8.65e5	49.4	-1.2	0.861	bb
5	200429R2_5	200	0.99	NO	36.97	1.000	1.79e6	9.81e5	210	5.0	0.914	bb
6	200429R2_6	1500	0.99	NO	36.96	1.001	1.89e7	1.37e6	1580	5.5	0.919	bb

**Compound name: 1,2,3,4,7,8,9-HpCDF**

Response Factor: 1.01156

RRF SD: 0.0670054, Relative SD: 6.62397

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	200429R2_1	1.25	0.97	NO	38.95	1.000	6.68e3	5.96e5	1.11	-11.4	0.897	MM
2	200429R2_2	2.50	0.96	NO	38.95	1.000	1.20e4	4.92e5	2.41	-3.7	0.974	MM
3	200429R2_3	10.0	1.01	NO	38.95	1.000	4.94e4	4.72e5	10.4	3.5	1.05	MM
4	200429R2_4	50.0	1.00	NO	38.96	1.000	2.60e5	5.12e5	50.2	0.3	1.01	bb
5	200429R2_5	200	0.99	NO	38.96	1.000	1.29e6	6.09e5	209	4.7	1.06	bb
6	200429R2_6	1500	0.99	NO	38.94	1.000	1.43e7	8.85e5	1600	6.5	1.08	bb

**Compound name: OCDF**

Response Factor: 0.802147

RRF SD: 0.0574516, Relative SD: 7.16223

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	200429R2_1	2.50	0.84	NO	41.52	1.000	1.41e4	1.62e6	2.17	-13.4	0.695	MM
2	200429R2_2	5.00	0.85	NO	41.52	1.000	2.74e4	1.40e6	4.88	-2.4	0.783	MM
3	200429R2_3	20.0	0.88	NO	41.52	1.000	1.07e5	1.27e6	21.0	5.0	0.842	bb
4	200429R2_4	100	0.86	NO	41.53	1.000	5.36e5	1.32e6	101	1.3	0.813	bb
5	200429R2_5	400	0.87	NO	41.53	1.000	2.84e6	1.69e6	420	5.0	0.842	bb
6	200429R2_6	3000	0.87	NO	41.52	1.000	3.30e7	2.63e6	3130	4.4	0.838	bb



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**Compound name: 13C-2,3,7,8-TCDD**

Response Factor: 1.15948

RRF SD: 0.103741, Relative SD: 8.94721

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	200429R2_1	100	0.79	NO	26.02	1.027	1.71e6	1.32e6	112	11.9	1.30	bb
2	200429R2_2	100	0.79	NO	26.03	1.027	1.49e6	1.44e6	89.7	-10.3	1.04	bb
3	200429R2_3	100	0.80	NO	26.02	1.026	1.43e6	1.38e6	89.4	-10.6	1.04	bb
4	200429R2_4	100	0.80	NO	26.03	1.027	1.49e6	1.28e6	100	0.3	1.16	bb
5	200429R2_5	100	0.79	NO	26.03	1.027	1.74e6	1.45e6	103	3.3	1.20	MM
6	200429R2_6	100	0.79	NO	26.02	1.027	2.03e6	1.66e6	105	5.4	1.22	bb

**Compound name: 13C-1,2,3,7,8-PeCDD**

Response Factor: 0.847234

RRF SD: 0.105802, Relative SD: 12.488

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	200429R2_1	100	0.64	NO	31.11	1.227	1.18e6	1.32e6	106	6.2	0.900	bb
2	200429R2_2	100	0.65	NO	31.13	1.227	1.02e6	1.44e6	84.2	-15.8	0.713	bb
3	200429R2_3	100	0.64	NO	31.11	1.227	9.92e5	1.38e6	84.9	-15.1	0.719	bb
4	200429R2_4	100	0.65	NO	31.11	1.227	1.14e6	1.28e6	105	5.0	0.889	bb
5	200429R2_5	100	0.63	NO	31.13	1.227	1.29e6	1.45e6	105	5.1	0.890	bb
6	200429R2_6	100	0.64	NO	31.11	1.227	1.61e6	1.66e6	115	14.6	0.971	bb

**Compound name: 13C-1,2,3,4,7,8-HxCDD**

Response Factor: 0.749916

RRF SD: 0.0958664, Relative SD: 12.7836

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	200429R2_1	100	1.27	NO	34.48	1.014	9.05e5	1.10e6	109	9.5	0.821	bd
2	200429R2_2	100	1.30	NO	34.49	1.014	7.45e5	1.19e6	83.5	-16.5	0.626	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	200429R2_3	100	1.29	NO	34.48	1.014	7.52e5	1.15e6	87.1	-12.9	0.653	bd
4	200429R2_4	100	1.29	NO	34.49	1.014	8.49e5	1.15e6	98.6	-1.4	0.739	bd
5	200429R2_5	100	1.28	NO	34.49	1.014	9.92e5	1.26e6	105	5.3	0.790	bd
6	200429R2_6	100	1.27	NO	34.48	1.014	1.29e6	1.48e6	116	16.0	0.870	bd

**Compound name: 13C-1,2,3,6,7,8-HxCDD**

Response Factor: 0.963047

RRF SD: 0.127006, Relative SD: 13.1879

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	200429R2_1	100	1.28	NO	34.59	1.017	1.16e6	1.10e6	109	9.3	1.05	db
2	200429R2_2	100	1.29	NO	34.59	1.017	9.85e5	1.19e6	85.9	-14.1	0.827	db
3	200429R2_3	100	1.29	NO	34.59	1.017	9.49e5	1.15e6	85.7	-14.3	0.825	db
4	200429R2_4	100	1.26	NO	34.59	1.017	1.08e6	1.15e6	97.7	-2.3	0.941	db
5	200429R2_5	100	1.27	NO	34.60	1.017	1.24e6	1.26e6	102	2.2	0.985	db
6	200429R2_6	100	1.26	NO	34.58	1.017	1.70e6	1.48e6	119	19.2	1.15	db

**Compound name: 13C-1,2,3,7,8,9-HxCDD**

Response Factor: 0.83755

RRF SD: 0.108482, Relative SD: 12.9523

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	200429R2_1	100	1.31	NO	34.86	1.025	1.02e6	1.10e6	110	10.2	0.923	bd
2	200429R2_2	100	1.28	NO	34.87	1.025	8.50e5	1.19e6	85.2	-14.8	0.713	bb
3	200429R2_3	100	1.25	NO	34.86	1.025	8.34e5	1.15e6	86.5	-13.5	0.724	bb
4	200429R2_4	100	1.25	NO	34.87	1.025	9.34e5	1.15e6	97.2	-2.8	0.814	bb
5	200429R2_5	100	1.25	NO	34.87	1.025	1.09e6	1.26e6	103	3.2	0.864	bb
6	200429R2_6	100	1.25	NO	34.86	1.025	1.46e6	1.48e6	118	17.7	0.986	bb

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**Compound name: 13C-1,2,3,4,6,7,8-HpCDD**

Response Factor: 0.641477

RRF SD: 0.0915679, Relative SD: 14.2745

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	200429R2_1	100	1.06	NO	38.35	1.128	8.17e5	1.10e6	116	15.5	0.741	bd
2	200429R2_2	100	1.06	NO	38.36	1.128	6.60e5	1.19e6	86.4	-13.6	0.554	MM
3	200429R2_3	100	1.02	NO	38.36	1.128	6.39e5	1.15e6	86.5	-13.5	0.555	bb
4	200429R2_4	100	1.09	NO	38.37	1.128	6.79e5	1.15e6	92.2	-7.8	0.592	MM
5	200429R2_5	100	1.02	NO	38.37	1.128	8.11e5	1.26e6	101	0.6	0.646	bb
6	200429R2_6	100	1.05	NO	38.35	1.128	1.13e6	1.48e6	119	18.7	0.761	bb

**Compound name: 13C-OCDD**

Response Factor: 0.586321

RRF SD: 0.114579, Relative SD: 19.5421

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	200429R2_1	200	0.89	NO	41.34	1.216	1.42e6	1.10e6	220	9.8	0.644	MM
2	200429R2_2	200	0.90	NO	41.34	1.215	1.21e6	1.19e6	173	-13.7	0.506	MM
3	200429R2_3	200	0.93	NO	41.33	1.215	1.10e6	1.15e6	162	-18.8	0.476	MM
4	200429R2_4	200	0.93	NO	41.34	1.215	1.18e6	1.15e6	175	-12.5	0.513	MM
5	200429R2_5	200	0.90	NO	41.34	1.215	1.50e6	1.26e6	203	1.7	0.597	MM
6	200429R2_6	200	0.90	NO	41.33	1.215	2.31e6	1.48e6	267	33.4	0.782	MM

**Compound name: 13C-2,3,7,8-TCDF**

Response Factor: 1.03447

RRF SD: 0.0994265, Relative SD: 9.61138

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	200429R2_1	100	0.78	NO	25.08	0.989	2.52e6	2.12e6	115	14.8	1.19	bb
2	200429R2_2	100	0.78	NO	25.09	0.989	2.22e6	2.37e6	90.3	-9.7	0.934	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	200429R2_3	100	0.78	NO	25.08	0.989	2.09e6	2.27e6	89.0	-11.0	0.920	bb
4	200429R2_4	100	0.77	NO	25.09	0.989	2.15e6	2.10e6	99.1	-0.9	1.03	bb
5	200429R2_5	100	0.79	NO	25.09	0.989	2.52e6	2.38e6	102	2.1	1.06	bb
6	200429R2_6	100	0.77	NO	25.08	0.989	2.91e6	2.69e6	105	4.7	1.08	bb

**Compound name: 13C-1,2,3,7,8-PeCDF**

Response Factor: 0.84507

RRF SD: 0.102566, Relative SD: 12.137

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	200429R2_1	100	1.60	NO	29.80	1.176	1.94e6	2.12e6	108	8.3	0.915	bb
2	200429R2_2	100	1.62	NO	29.81	1.176	1.69e6	2.37e6	84.4	-15.6	0.713	bb
3	200429R2_3	100	1.61	NO	29.80	1.175	1.64e6	2.27e6	85.7	-14.3	0.724	bb
4	200429R2_4	100	1.63	NO	29.80	1.175	1.86e6	2.10e6	105	4.9	0.886	bb
5	200429R2_5	100	1.58	NO	29.81	1.176	2.07e6	2.38e6	103	3.0	0.871	bb
6	200429R2_6	100	1.59	NO	29.80	1.176	2.58e6	2.69e6	114	13.7	0.960	bb

**Compound name: 13C-2,3,4,7,8-PeCDF**

Response Factor: 0.814071

RRF SD: 0.103739, Relative SD: 12.7432

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	200429R2_1	100	1.58	NO	30.79	1.215	1.84e6	2.12e6	107	6.7	0.869	bb
2	200429R2_2	100	1.59	NO	30.80	1.215	1.62e6	2.37e6	83.6	-16.4	0.681	db
3	200429R2_3	100	1.58	NO	30.79	1.214	1.57e6	2.27e6	84.8	-15.2	0.691	db
4	200429R2_4	100	1.60	NO	30.79	1.214	1.82e6	2.10e6	107	6.5	0.867	db
5	200429R2_5	100	1.60	NO	30.80	1.215	2.01e6	2.38e6	104	3.7	0.844	db
6	200429R2_6	100	1.58	NO	30.79	1.215	2.51e6	2.69e6	115	14.6	0.933	db

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-CRV.qld

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**Compound name: 13C-1,2,3,4,7,8-HxCDF**

Response Factor: 1.00488

RRF SD: 0.118528, Relative SD: 11.7952

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	200429R2_1	100	0.50	NO	33.62	0.989	1.22e6	1.10e6	110	10.1	1.11	bd
2	200429R2_2	100	0.51	NO	33.63	0.989	1.02e6	1.19e6	85.4	-14.6	0.858	bd
3	200429R2_3	100	0.51	NO	33.62	0.988	1.02e6	1.15e6	88.0	-12.0	0.884	bd
4	200429R2_4	100	0.51	NO	33.63	0.989	1.13e6	1.15e6	98.3	-1.7	0.987	bd
5	200429R2_5	100	0.51	NO	33.63	0.988	1.31e6	1.26e6	103	3.5	1.04	bd
6	200429R2_6	100	0.51	NO	33.62	0.989	1.71e6	1.48e6	115	14.9	1.15	bd

**Compound name: 13C-1,2,3,6,7,8-HxCDF**

Response Factor: 1.13681

RRF SD: 0.13421, Relative SD: 11.8059

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	200429R2_1	100	0.51	NO	33.74	0.992	1.41e6	1.10e6	113	12.9	1.28	db
2	200429R2_2	100	0.52	NO	33.75	0.992	1.18e6	1.19e6	87.4	-12.6	0.994	db
3	200429R2_3	100	0.51	NO	33.74	0.992	1.14e6	1.15e6	87.0	-13.0	0.990	db
4	200429R2_4	100	0.51	NO	33.75	0.992	1.26e6	1.15e6	96.7	-3.3	1.10	db
5	200429R2_5	100	0.51	NO	33.75	0.992	1.46e6	1.26e6	102	2.3	1.16	db
6	200429R2_6	100	0.51	NO	33.74	0.992	1.91e6	1.48e6	114	13.7	1.29	db

**Compound name: 13C-2,3,4,6,7,8-HxCDF**

Response Factor: 1.02233

RRF SD: 0.123256, Relative SD: 12.0564

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	200429R2_1	100	0.52	NO	34.31	1.009	1.26e6	1.10e6	112	11.8	1.14	MM
2	200429R2_2	100	0.51	NO	34.31	1.009	1.05e6	1.19e6	86.2	-13.8	0.881	bb

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-CRV.qld

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**Compound name: 13C-2,3,4,6,7,8-HxCDF**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200429R2_3	100	0.52	NO	34.31	1.009	1.03e6	1.15e6	87.6	-12.4	0.895	bb
4	200429R2_4	100	0.51	NO	34.33	1.009	1.14e6	1.15e6	97.2	-2.8	0.993	bb
5	200429R2_5	100	0.51	NO	34.33	1.009	1.31e6	1.26e6	102	2.1	1.04	bb
6	200429R2_6	100	0.51	NO	34.31	1.009	1.74e6	1.48e6	115	15.2	1.18	bb

**Compound name: 13C-1,2,3,7,8,9-HxCDF**

Response Factor: 0.844773

RRF SD: 0.0991685, Relative SD: 11.7391

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	200429R2_1	100	0.51	NO	35.20	1.035	9.91e5	1.10e6	106	6.4	0.899	bb
2	200429R2_2	100	0.51	NO	35.20	1.035	8.77e5	1.19e6	87.2	-12.8	0.737	bb
3	200429R2_3	100	0.50	NO	35.20	1.035	8.59e5	1.15e6	88.3	-11.7	0.746	bb
4	200429R2_4	100	0.51	NO	35.21	1.035	9.29e5	1.15e6	95.9	-4.1	0.810	MM
5	200429R2_5	100	0.51	NO	35.21	1.035	1.11e6	1.26e6	105	4.6	0.883	bb
6	200429R2_6	100	0.52	NO	35.20	1.035	1.47e6	1.48e6	118	17.6	0.994	bb

**Compound name: 13C-1,2,3,4,6,7,8-HpCDF**

Response Factor: 0.771212

RRF SD: 0.102676, Relative SD: 13.3136

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	200429R2_1	100	0.43	NO	36.93	1.086	9.24e5	1.10e6	109	8.6	0.838	bb
2	200429R2_2	100	0.43	NO	36.94	1.086	7.84e5	1.19e6	85.4	-14.6	0.659	bb
3	200429R2_3	100	0.44	NO	36.94	1.086	7.69e5	1.15e6	86.7	-13.3	0.668	bd
4	200429R2_4	100	0.43	NO	36.96	1.086	8.65e5	1.15e6	97.7	-2.3	0.754	bd
5	200429R2_5	100	0.42	NO	36.96	1.086	9.81e5	1.26e6	101	1.2	0.781	bb
6	200429R2_6	100	0.44	NO	36.93	1.086	1.37e6	1.48e6	120	20.3	0.928	bb

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-CRV.qld

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**Compound name: 13C-1,2,3,4,7,8,9-HpCDF**

Response Factor: 0.482289

RRF SD: 0.0750769, Relative SD: 15.5668

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	200429R2_1	100	0.41	NO	38.94	1.145	5.96e5	1.10e6	112	12.1	0.541	bb
2	200429R2_2	100	0.44	NO	38.94	1.145	4.92e5	1.19e6	85.7	-14.3	0.413	MM
3	200429R2_3	100	0.45	NO	38.94	1.145	4.72e5	1.15e6	85.0	-15.0	0.410	MM
4	200429R2_4	100	0.44	NO	38.95	1.145	5.12e5	1.15e6	92.5	-7.5	0.446	MM
5	200429R2_5	100	0.43	NO	38.95	1.145	6.09e5	1.26e6	101	0.6	0.485	bb
6	200429R2_6	100	0.43	NO	38.93	1.145	8.85e5	1.48e6	124	24.1	0.598	bb

**Compound name: 13C-OCDF**

Response Factor: 0.668505

RRF SD: 0.127842, Relative SD: 19.1235

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	200429R2_1	200	0.88	NO	41.51	1.221	1.62e6	1.10e6	220	9.9	0.735	bb
2	200429R2_2	200	0.86	NO	41.51	1.220	1.40e6	1.19e6	176	-12.0	0.588	MM
3	200429R2_3	200	0.89	NO	41.51	1.220	1.27e6	1.15e6	165	-17.4	0.552	bd
4	200429R2_4	200	0.88	NO	41.52	1.221	1.32e6	1.15e6	172	-14.0	0.575	bb
5	200429R2_5	200	0.87	NO	41.52	1.220	1.69e6	1.26e6	201	0.5	0.672	bb
6	200429R2_6	200	0.88	NO	41.51	1.221	2.63e6	1.48e6	266	33.0	0.889	bb

**Compound name: 37Cl-2,3,7,8-TCDD**

Response Factor: 1.09842

RRF SD: 0.0959308, Relative SD: 8.73354

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	200429R2_1	0.250			26.05	1.028	3.33e3	1.32e6	0.230	-7.9	1.01	bb
2	200429R2_2	0.500			26.07	1.028	7.64e3	1.44e6	0.484	-3.2	1.06	bb

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-CRV.qld

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**Compound name: 37CI-2,3,7,8-TCDD**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200429R2_3	2.00			26.05	1.027	2.74e4	1.38e6	1.81	-9.5	0.994	bd
4	200429R2_4	10.0			26.05	1.027	1.41e5	1.28e6	10.0	0.4	1.10	bb
5	200429R2_5	40.0			26.07	1.028	6.87e5	1.45e6	43.0	7.5	1.18	bb
6	200429R2_6	200			26.05	1.028	4.11e6	1.66e6	225	12.7	1.24	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	200429R2_1	100	0.80	NO	25.35	1.000	1.32e6	1.32e6	100	0.0	1.00	bb
2	200429R2_2	100	0.80	NO	25.36	1.000	1.44e6	1.44e6	100	0.0	1.00	bb
3	200429R2_3	100	0.81	NO	25.36	1.000	1.38e6	1.38e6	100	0.0	1.00	bb
4	200429R2_4	100	0.80	NO	25.36	1.000	1.28e6	1.28e6	100	0.0	1.00	bb
5	200429R2_5	100	0.81	NO	25.36	1.000	1.45e6	1.45e6	100	0.0	1.00	bb
6	200429R2_6	100	0.80	NO	25.35	1.000	1.66e6	1.66e6	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	200429R2_1	100	0.79	NO	23.57	1.000	2.12e6	2.12e6	100	0.0	1.00	bb
2	200429R2_2	100	0.79	NO	23.58	1.000	2.37e6	2.37e6	100	0.0	1.00	bb
3	200429R2_3	100	0.79	NO	23.58	1.000	2.27e6	2.27e6	100	0.0	1.00	bb
4	200429R2_4	100	0.79	NO	23.59	1.000	2.10e6	2.10e6	100	0.0	1.00	bb
5	200429R2_5	100	0.79	NO	23.59	1.000	2.38e6	2.38e6	100	0.0	1.00	bb
6	200429R2_6	100	0.79	NO	23.57	1.000	2.69e6	2.69e6	100	0.0	1.00	bb



Dataset: U:\VG12.PRO\Results\200429R2\200429R2-CRV.qld

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Compound name: 13C-1,2,3,4,6,9-HxCDF

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	0.51	NO	34.01	1.000	1.10e6	1.10e6	100	0.0	1.00	bb
2	200429R2_2	100	0.50	NO	34.01	1.000	1.19e6	1.19e6	100	0.0	1.00	bb
3	200429R2_3	100	0.51	NO	34.01	1.000	1.15e6	1.15e6	100	0.0	1.00	bb
4	200429R2_4	100	0.50	NO	34.01	1.000	1.15e6	1.15e6	100	0.0	1.00	bb
5	200429R2_5	100	0.51	NO	34.03	1.000	1.26e6	1.26e6	100	0.0	1.00	bb
6	200429R2_6	100	0.51	NO	34.01	1.000	1.48e6	1.48e6	100	0.0	1.00	bb

Dataset: Untitled

Last Altered: Thursday, April 30, 2020 8:40:02 AM Pacific Daylight Time

Printed: Thursday, April 30, 2020 8:40:20 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 08 Apr 2020 10:53:44

Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200429R2\_4, Date: 29-Apr-2020, Time: 15:48:39, ID: ST200429R2\_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	21.90
2	2 1,2,8,9-TCDD (Last)	27.05
3	3 1,2,4,7,9-PeCDD (First)	28.88
4	4 1,2,3,8,9-PeCDD (Last)	31.52
5	5 1,2,4,6,7,9-HxCDD (First)	33.04
6	6 1,2,3,7,8,9-HxCDD (Last)	34.88
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.35
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.38
9	9 1,3,6,8-TCDF (First)	19.85
10	10 1,2,8,9-TCDF (Last)	27.19
11	11 1,3,4,6,8-PeCDF (First)	27.17
12	12 1,2,3,8,9-PeCDF (Last)	31.75
13	13 1,2,3,4,6,8-HxCDF (First)	32.47
14	14 1,2,3,7,8,9-HxCDF (Last)	35.22
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.97
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.96

Dataset: Untitled

Last Altered: Thursday, April 30, 2020 8:40:02 AM Pacific Daylight Time  
Printed: Thursday, April 30, 2020 8:40:20 AM Pacific Daylight Time

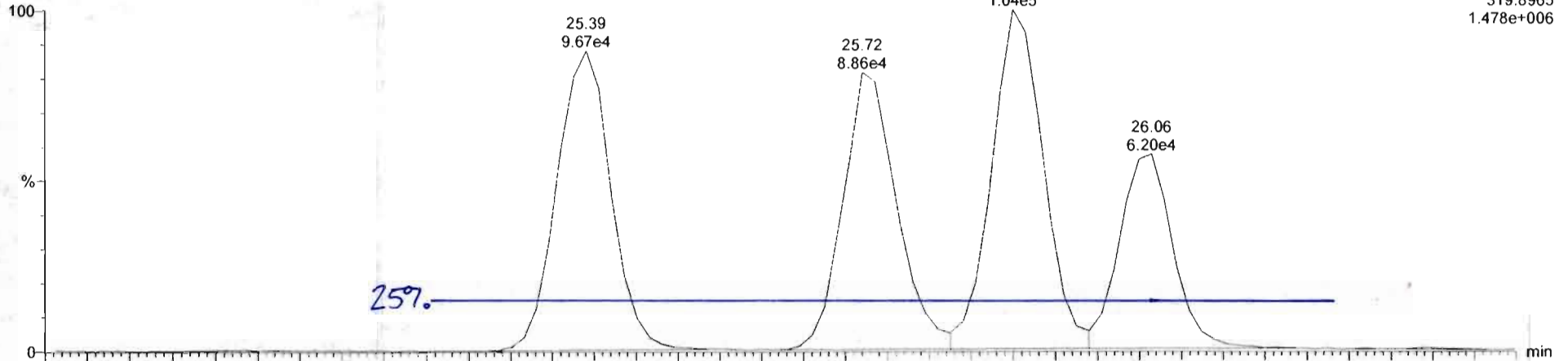
GPB 04/30/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 08 Apr 2020 10:53:44  
Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200429R2\_4, Date: 29-Apr-2020, Time: 15:48:39, ID: ST200429R2\_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

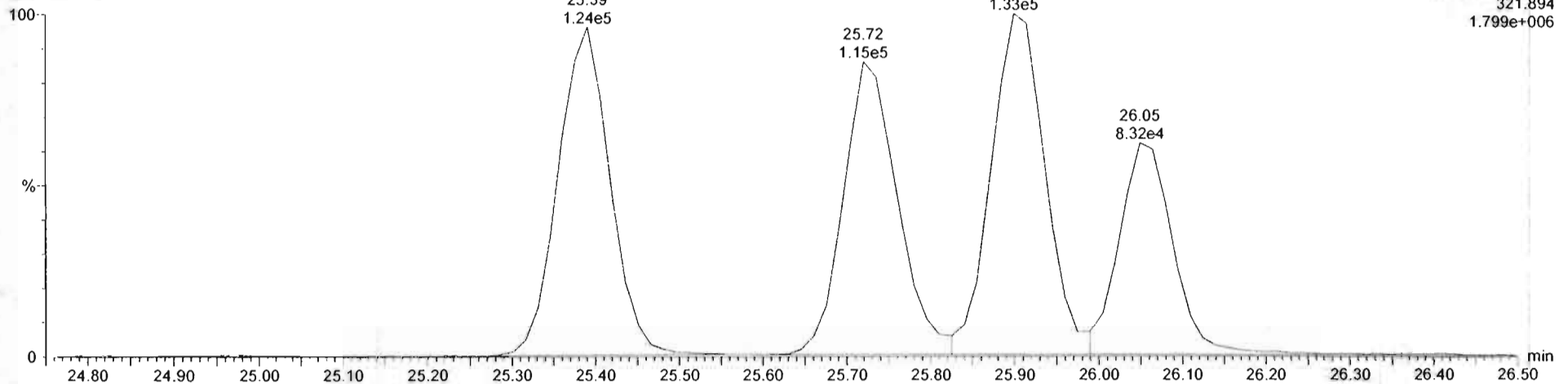
1,3,6,8-TCDD (First)  
200429R2\_4

F1:Voltage SIR,EI+  
319.8965  
1.478e+006



200429R2\_4

F1:Voltage SIR,EI+  
321.894  
1.799e+006



Dataset: Untitled

Last Altered: Thursday, April 30, 2020 8:40:43 AM Pacific Daylight Time  
Printed: Thursday, April 30, 2020 8:41:41 AM Pacific Daylight Time

Method: U:\VG12.PROMethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02  
Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

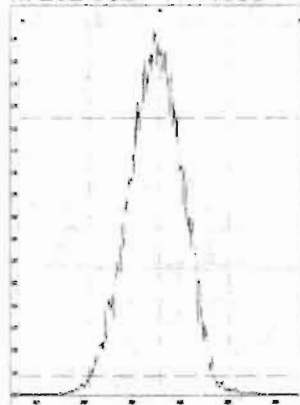
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	200429R2_1	ST200429R2_1 1613 CS0 19L2302	29-Apr-20	13:27:25
2	200429R2_2	ST200429R2_2 1613 CS1 19L2303	29-Apr-20	14:15:04
3	200429R2_3	ST200429R2_3 1613 CS2 19L2304	29-Apr-20	15:02:24
4	200429R2_4	ST200429R2_4 1613 CS3 19L2305	29-Apr-20	15:48:39
5	200429R2_5	ST200429R2_5 1613 CS4 19L2306	29-Apr-20	16:35:58
6	200429R2_6	ST200429R2_6 1613 CS5 19L2307	29-Apr-20	17:23:21
7	200429R2_7	SOLVENT BLANK	29-Apr-20	18:10:44
8	200429R2_8	SS200429R2_1 1613 SSS 19L2308	29-Apr-20	18:58:05
9	200429R2_9	B0C0304-BS4 OPR 10	29-Apr-20	19:54:24
10	200429R2_10	B0C0304-BS3 OPR 10	29-Apr-20	20:40:38
11	200429R2_11	B0C0304-BS2 OPR 10	29-Apr-20	21:28:00
12	200429R2_12	B0C0304-BS1 OPR 10	29-Apr-20	22:15:28
13	200429R2_13	B0D0053-BS4 OPR 10	29-Apr-20	23:02:49
14	200429R2_14	B0D0053-BS3 OPR 10	29-Apr-20	23:50:11
15	200429R2_15	B0D0053-BS2 OPR 10	30-Apr-20	00:37:32
16	200429R2_16	B0D0053-BS1 OPR 10	30-Apr-20	01:24:55
17	200429R2_17	SOLVENT BLANK	30-Apr-20	02:12:17
18	200429R2_18	B0D0053-BLK1 Method Blank 10	30-Apr-20	02:59:37
19	200429R2_19	SOLVENT BLANK	30-Apr-20	03:55:52

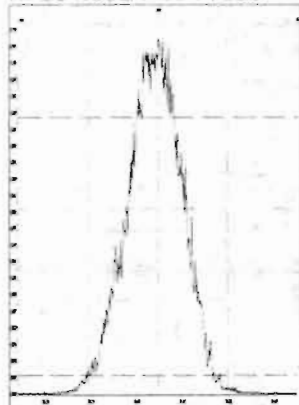
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, April 29, 2020 13:21:30 Pacific Daylight Time

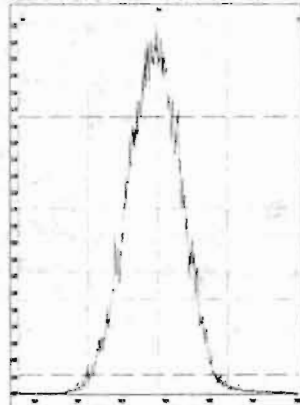
M 292.9824 R 11363



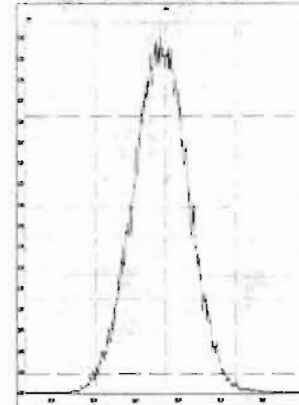
M 304.9824 R 11059



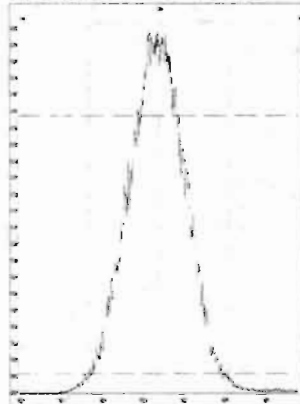
M 318.9792 R 11211



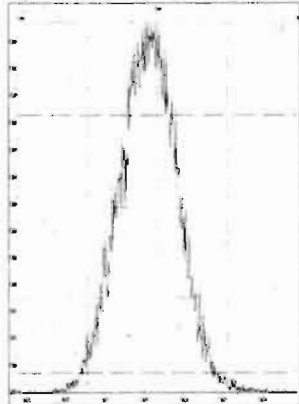
M 330.9792 R 11311



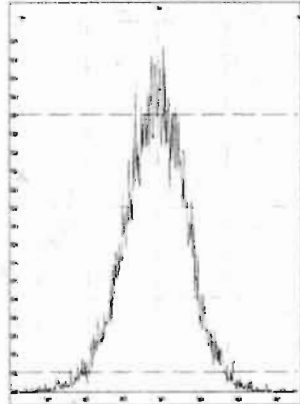
M 342.9792 R 10772



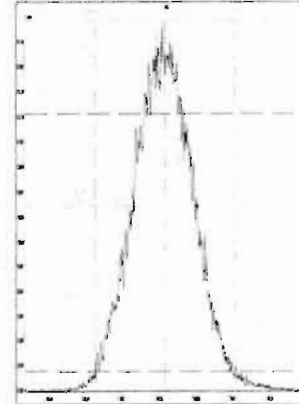
M 354.9792 R 10729



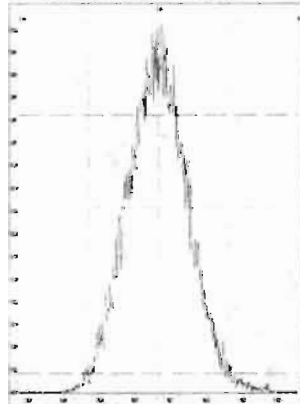
M 366.9792 R 10078



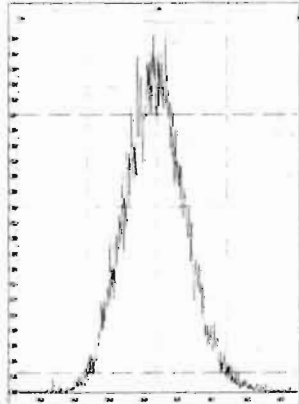
M 380.9760 R 10288



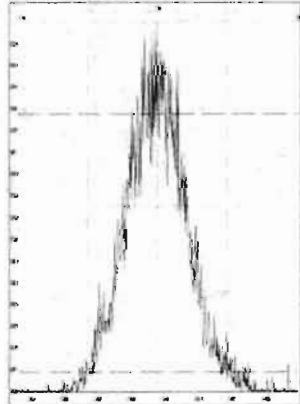
M 392.9760 R 10371



M 404.9760 R 10417



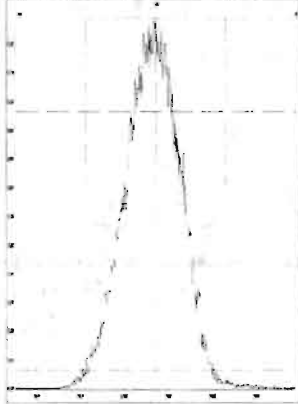
M 416.9760 R 10964



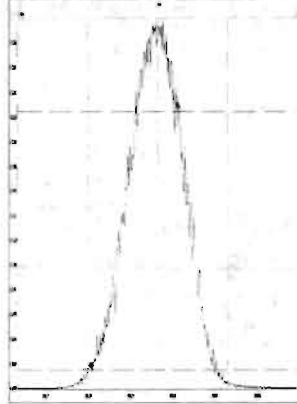
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Wednesday, April 29, 2020 13:22:18 Pacific Daylight Time

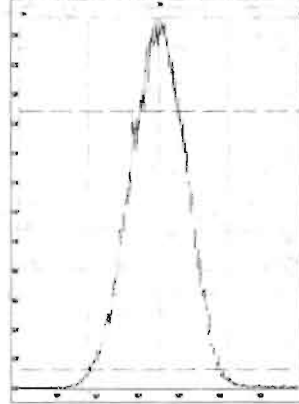
M 318.9792 R 11365



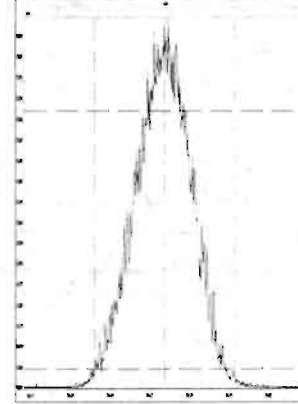
M 330.9792 R 11420



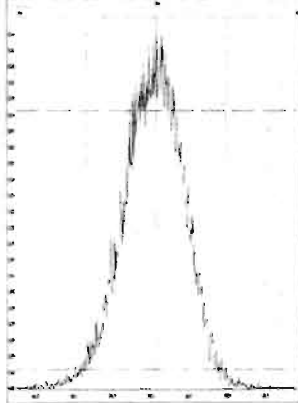
M 342.9792 R 10824



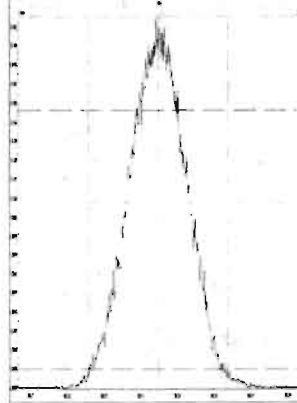
M 354.9792 R 11312



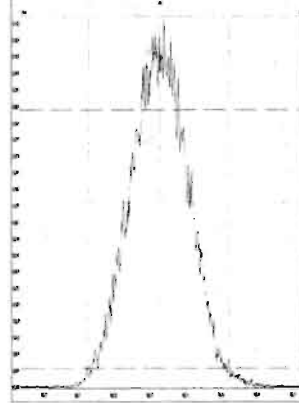
M 366.9792 R 10371



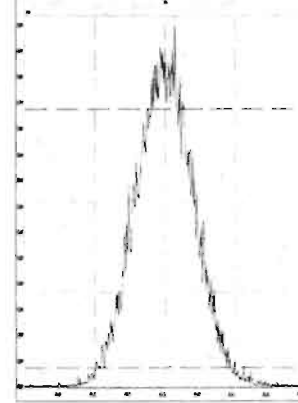
M 380.9760 R 10772



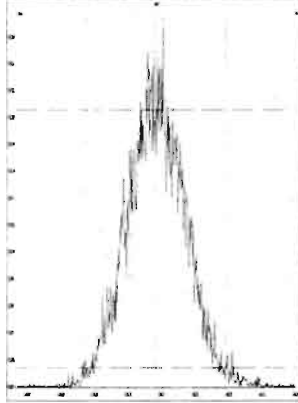
M 392.9760 R 10916



M 404.9760 R 10370



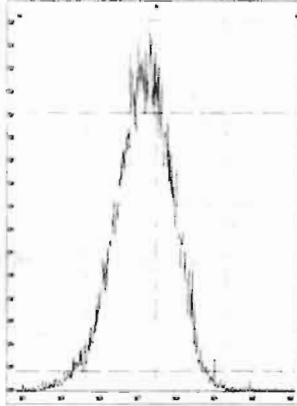
M 416.9760 R 10916



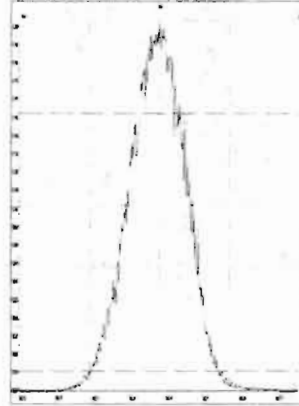
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Printed: Wednesday, April 29, 2020 13:22:48 Pacific Daylight Time

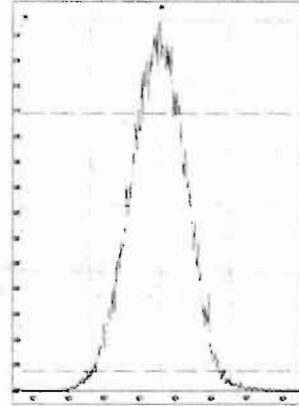
M 366.9792 R 11519



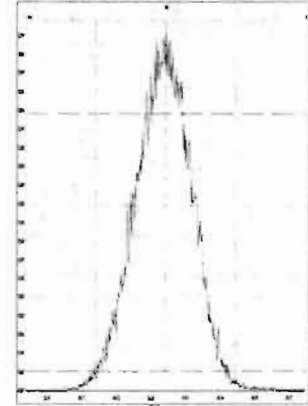
M 380.9760 R 10914



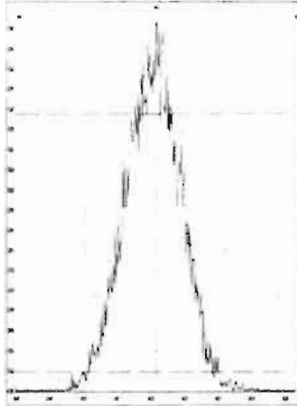
M 392.9760 R 11415



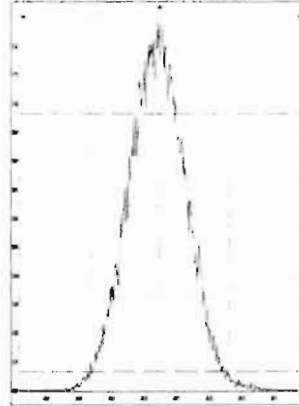
M 404.9760 R 10867



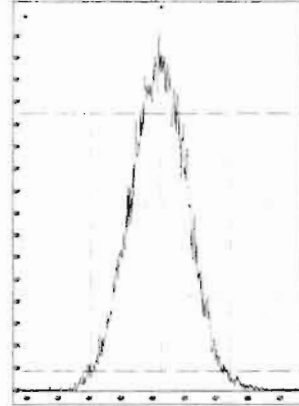
M 416.9760 R 11210



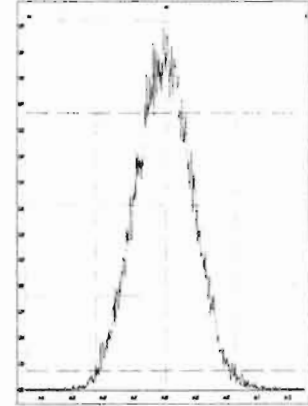
M 430.9728 R 10637



M 442.9728 R 10917



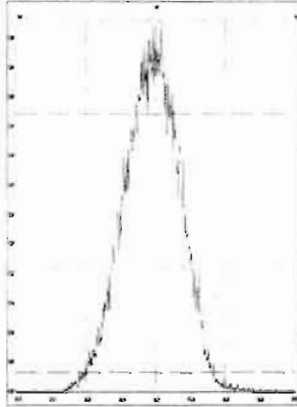
M 454.9728 R 10683



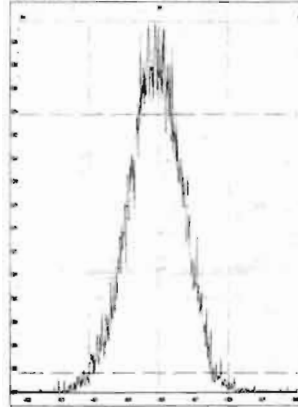
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Wednesday, April 29, 2020 13:23:14 Pacific Daylight Time

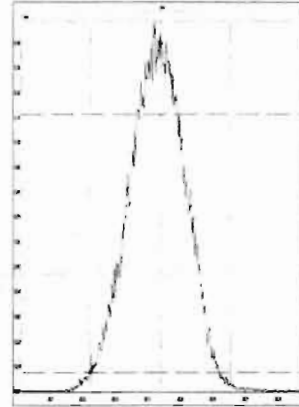
M 404.9760 R 11060



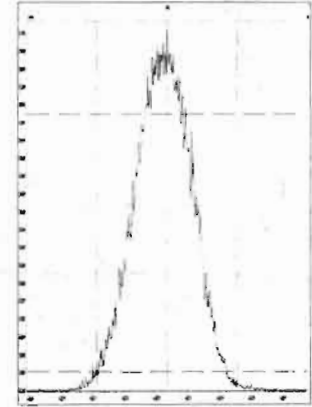
M 416.9760 R 11313



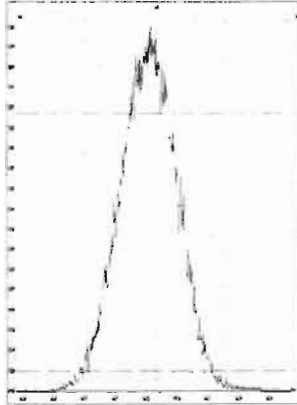
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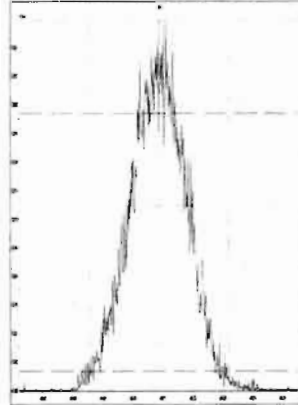
M 442.9728 R 10867



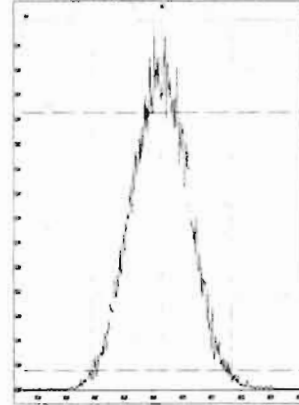
M 454.9728 R 10729



M 466.9728 R 11846



M 480.9696 R 10776

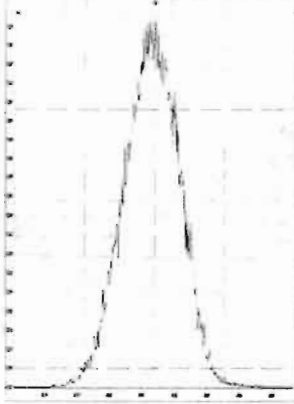




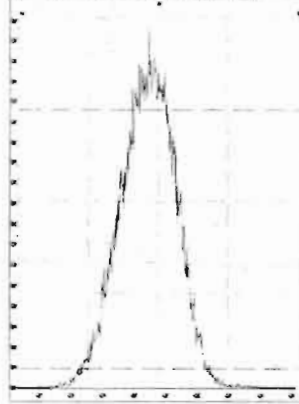
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Wednesday, April 29, 2020 13:23:43 Pacific Daylight Time

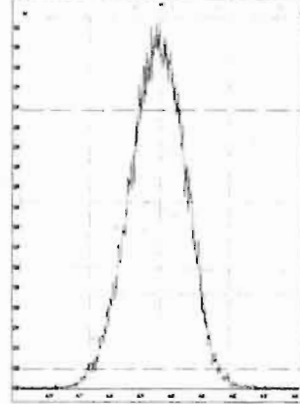
M 430.9728 R 11108



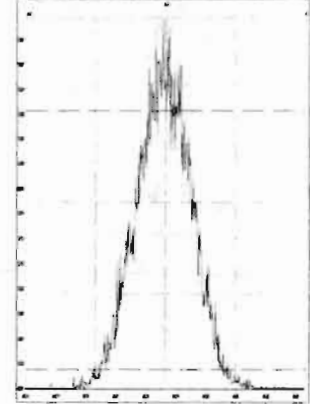
M 442.9728 R 11520



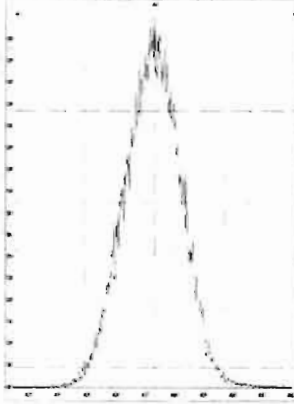
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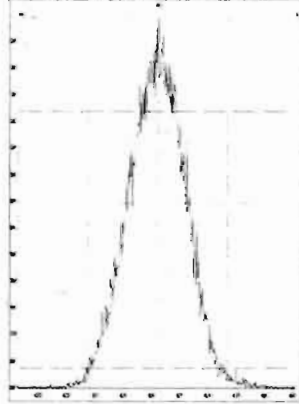
M 466.9728 R 11364



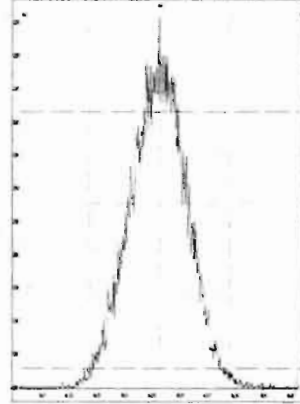
M 480.9696 R 10916



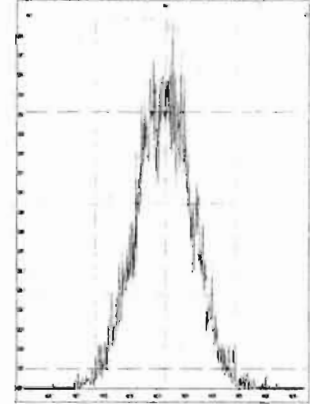
M 492.9696 R 10918



M 504.9696 R 11110



M 516.9697 R 11365



Dataset: Untitled

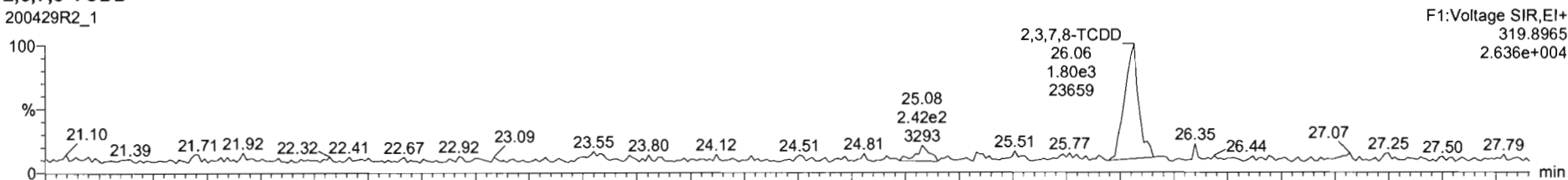
Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time  
Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02  
Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

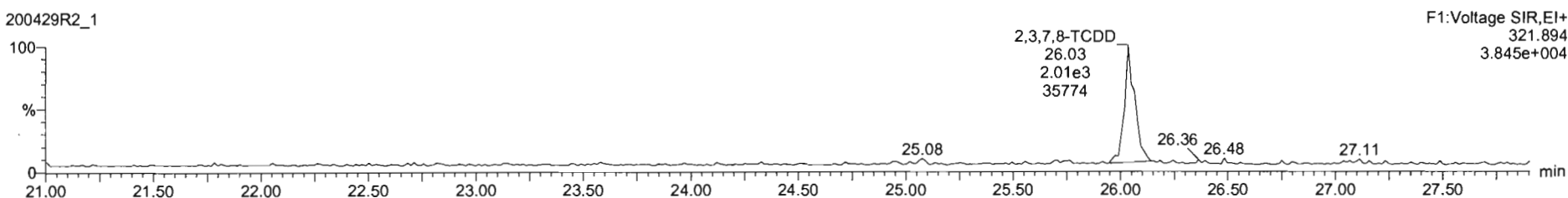
Name: 200429R2\_1, Date: 29-Apr-2020, Time: 13:27:25, ID: ST200429R2\_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

### 2,3,7,8-TCDD

200429R2\_1

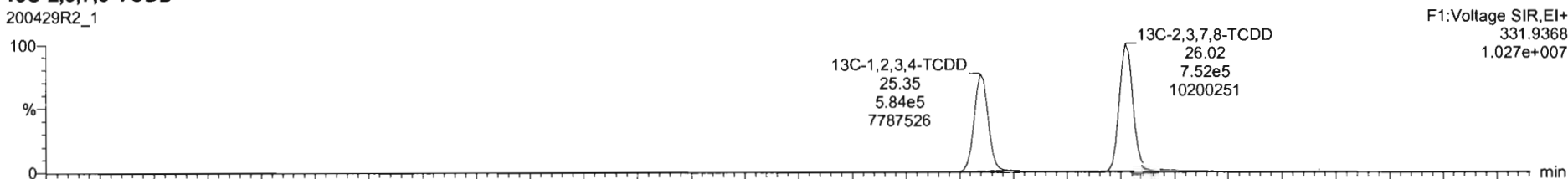


200429R2\_1

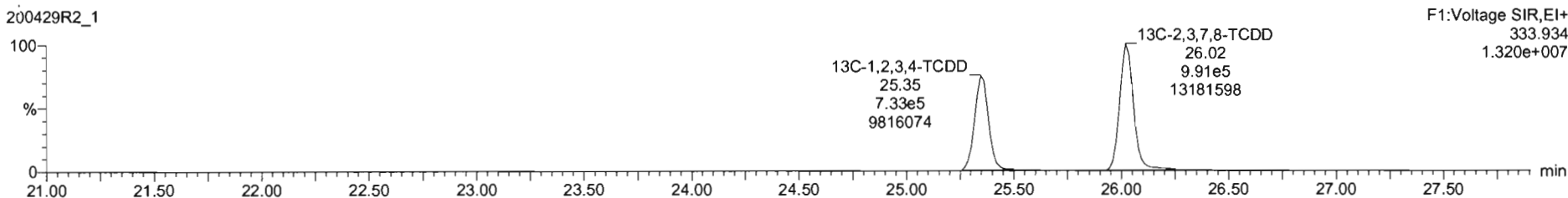


### 13C-2,3,7,8-TCDD

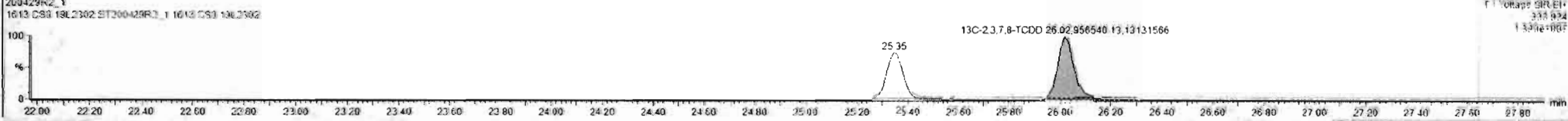
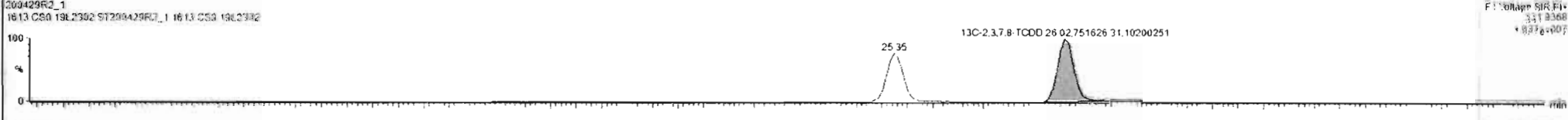
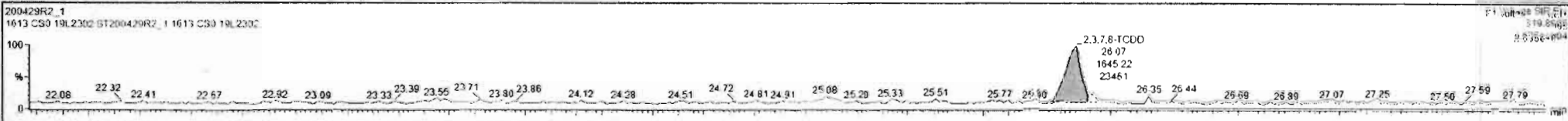
200429R2\_1



200429R2\_1



#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.813	NO	3.6687e3	1.7082e6	0.250	-9.2	6.35	0.947	0.0587
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2578e4	1.1845e6	1.250	-9.6	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0764
4	1,2,3,6,7,8-HxCDD	34.60	1.181	NO	1.1900e4	1.1804e6	1.250	-10.3	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.87	1.174	NO	9.9450e3	1.0177e6	1.250	-14.6	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	28.38	1.084	NO	7.9301e3	8.1666e5	1.250	-13.5	6.93	0.896	0.0622
7	OCDD	41.35	0.862	NO	1.4111e4	1.4188e6	2.500	-14.6	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.09	0.819	NO	4.5125e3	2.5190e6	0.250	-3.9	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.627	NO	1.9711e4	1.9415e6	1.250	-10.3	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.488	NO	2.0204e4	1.8427e6	1.250	-8.0	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.54	1.134	NO	1.1393e4	1.2190e6	1.250	-14.9	7.59	0.878	0.0566
12	1,2,3,6,7,8-HxCDF	33.76	1.234	NO	1.2594e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.138	NO	1.2282e4	1.2596e6	1.250	-14.7	7.69	0.922	0.0706
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.94	0.987	NO	8.5952e3	9.2366e5	1.250	-14.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	28.95	0.973	NO	6.6818e3	5.9612e5	1.250	-11.4	6.62	1.01	0.0670
17	OCDF	41.52	0.836	NO	1.4068e4	1.6199e6	2.500	-13.4	7.16	0.802	0.0575



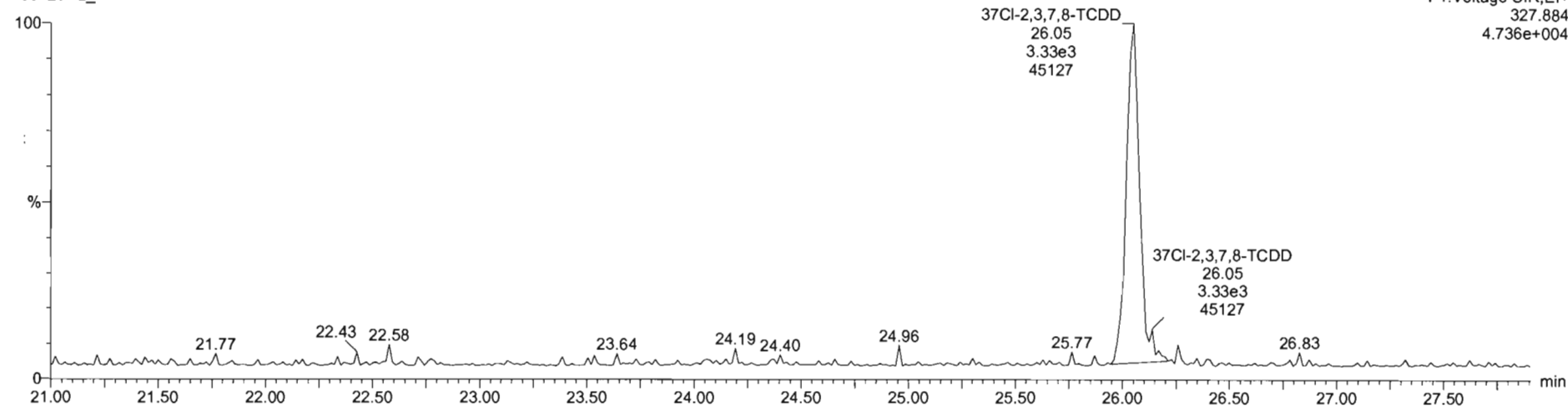
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Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time  
Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2\_1, Date: 29-Apr-2020, Time: 13:27:25, ID: ST200429R2\_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

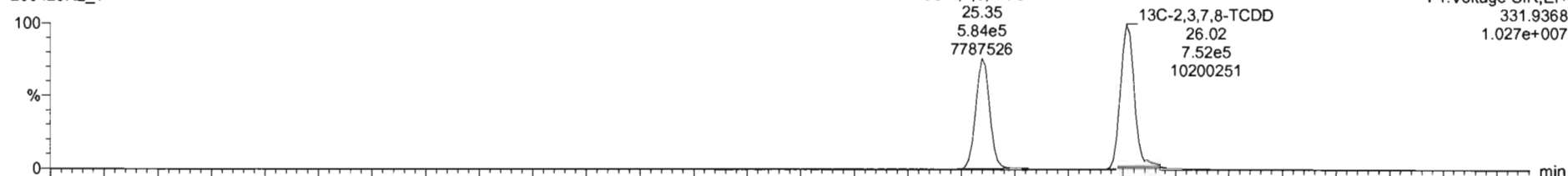
**37Cl-2,3,7,8-TCDD**

200429R2\_1

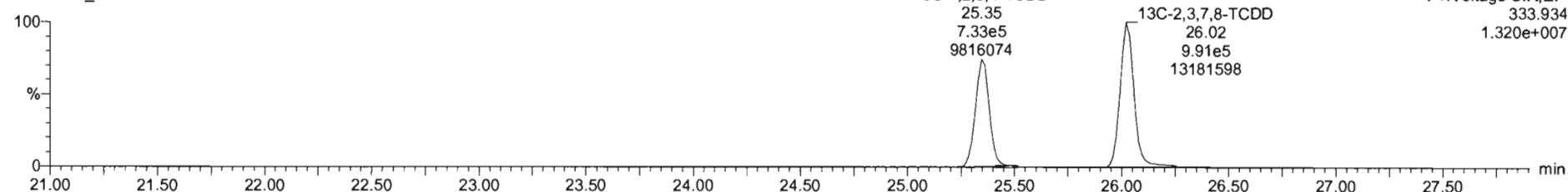


**13C-1,2,3,4-TCDD**

200429R2\_1



200429R2\_1



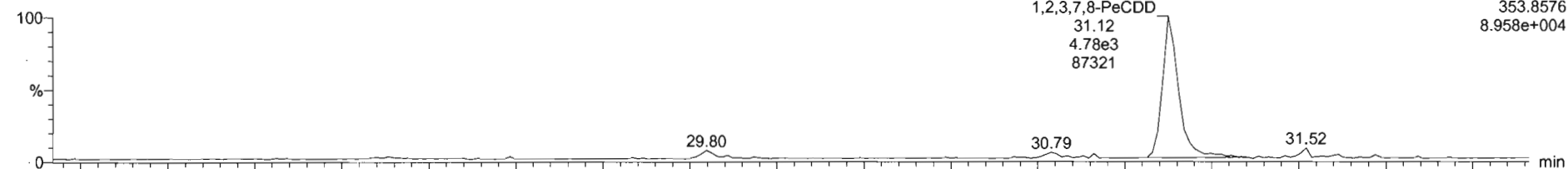
Dataset: Untitled

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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

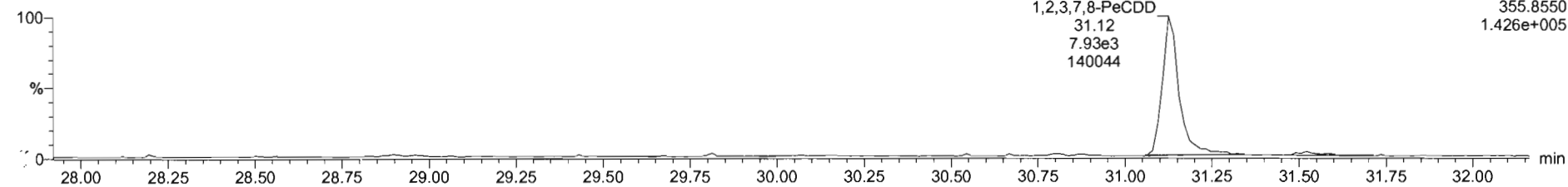
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**1,2,3,7,8-PeCDD**

200429R2\_1

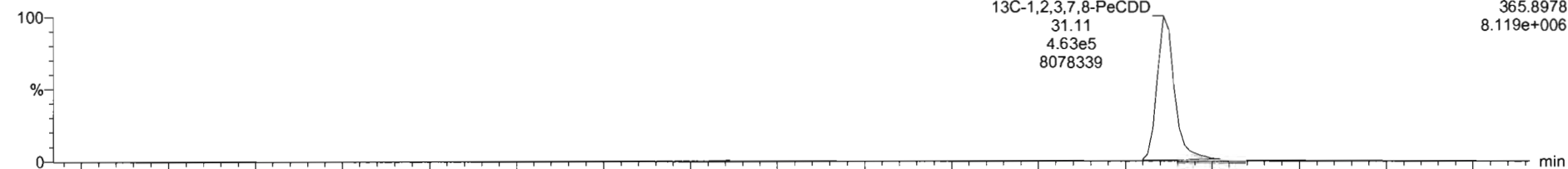


200429R2\_1

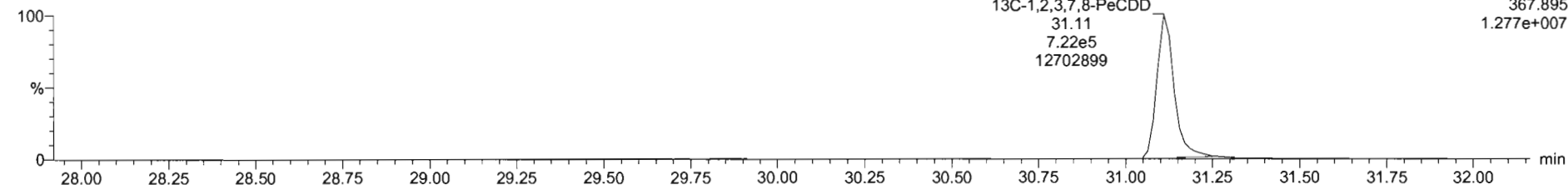


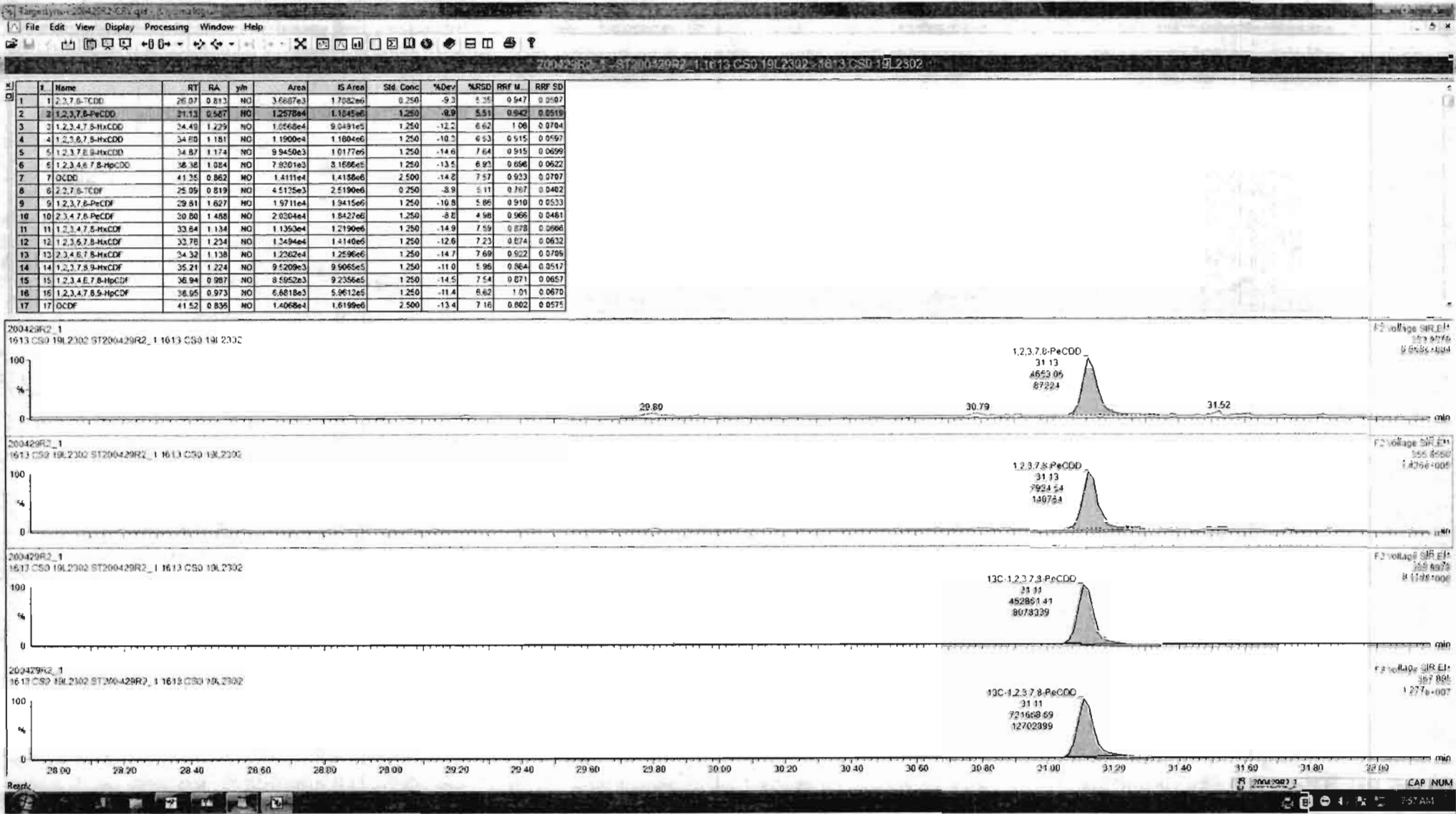
**13C-1,2,3,7,8-PeCDD**

200429R2\_1



200429R2\_1





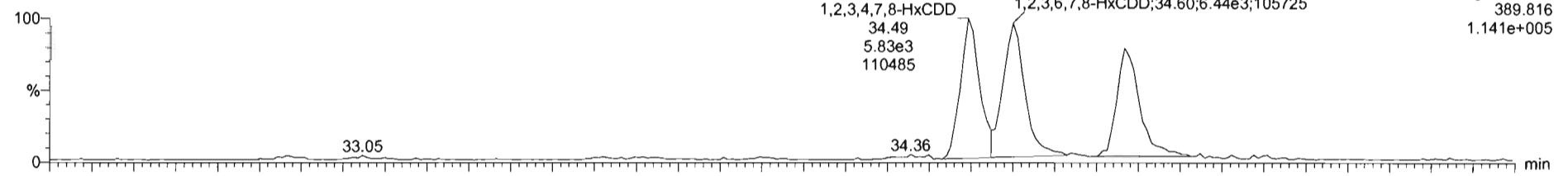
Dataset: Untitled

Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time  
Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

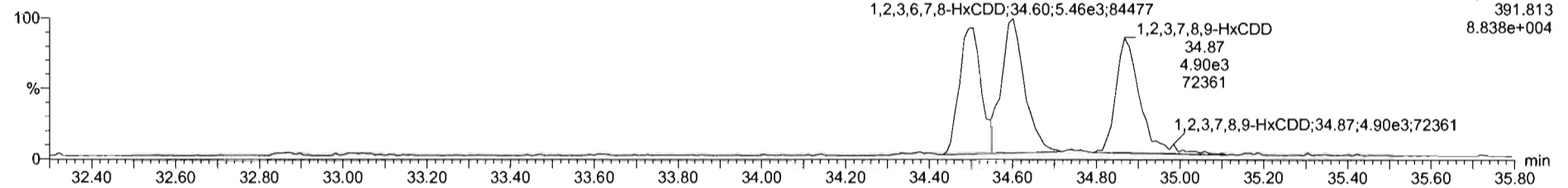
Name: 200429R2\_1, Date: 29-Apr-2020, Time: 13:27:25, ID: ST200429R2\_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

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

200429R2\_1

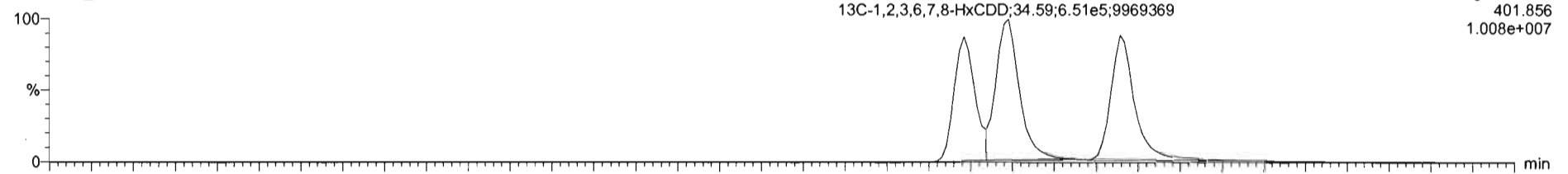


200429R2\_1

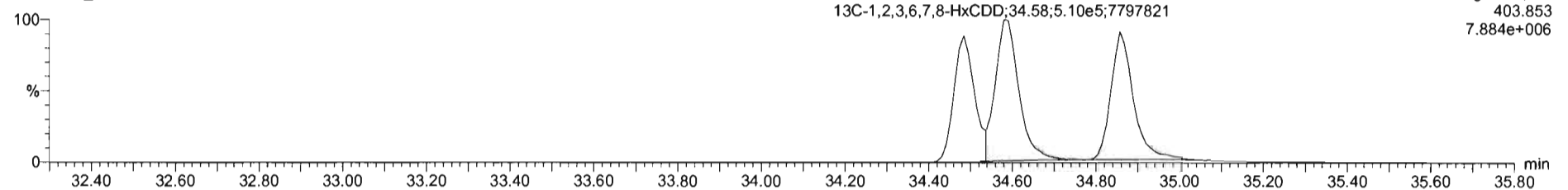


13C-1,2,3,4,7,8-HxCDD

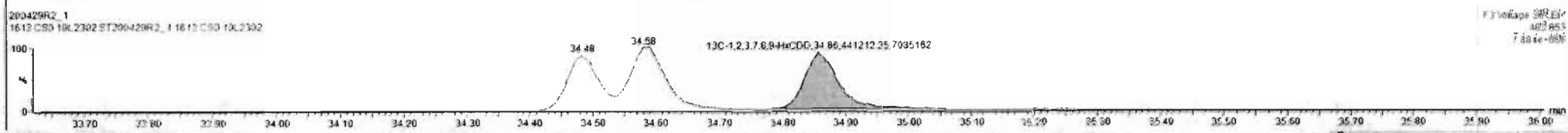
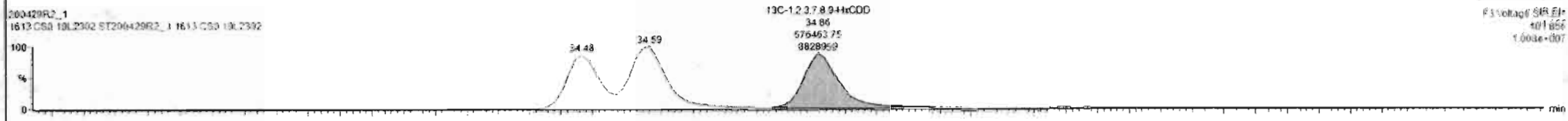
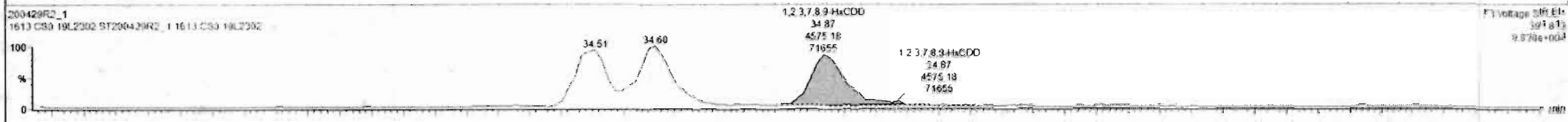
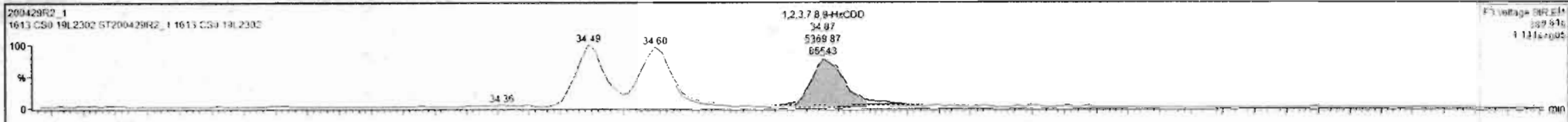
200429R2\_1



200429R2\_1



#	Name	RT	RA	yh	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.913	NO	3.6687e3	1.7082e6	0.250	-9.3	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2578e4	1.1845e6	1.250	-9.9	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.181	NO	1.1900e4	1.1604e6	1.250	-10.3	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.67	1.174	NO	9.9450e3	1.0177e6	1.250	-14.4	7.64	0.915	0.0599
6	1,2,3,4,6,7,8-HpCDD	36.38	1.054	NO	7.9201e3	8.1666e5	1.250	-13.5	8.93	0.656	0.0522
7	OCDD	41.35	0.862	NO	1.4111e4	1.4186e6	2.500	-14.8	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.95	0.919	NO	4.5125e3	2.5190e6	0.250	-8.9	5.11	0.767	0.0462
9	1,2,3,7,8-PeCDF	29.81	1.027	NO	1.9711e4	1.9415e6	1.250	-10.8	5.66	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.488	NO	2.0304e4	1.8427e6	1.250	-8.8	4.96	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.134	NO	1.1393e4	1.2190e6	1.250	-14.3	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.234	NO	1.3494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.138	NO	1.2262e4	1.2596e6	1.250	-14.7	7.69	0.922	0.0789
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.98	0.864	0.0512
15	1,2,3,4,6,7,8-HpCDF	36.94	0.987	NO	8.5952e3	9.2356e5	1.250	-14.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.6818e3	5.9612e5	1.250	-11.4	6.62	1.01	0.0670
17	DCDF	41.52	0.836	NO	1.4066e4	1.6189e6	2.500	-13.4	7.16	0.802	0.0575



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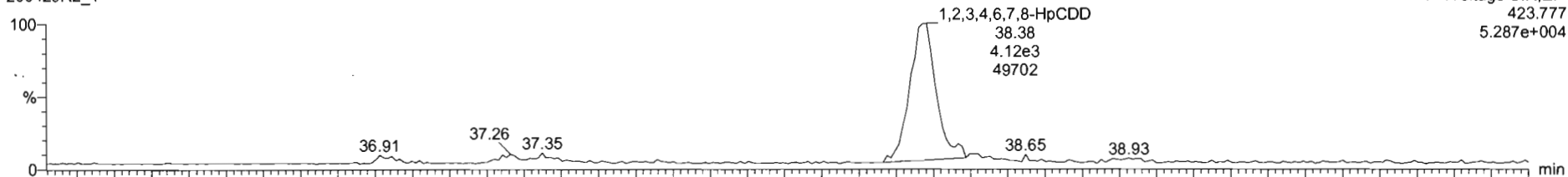
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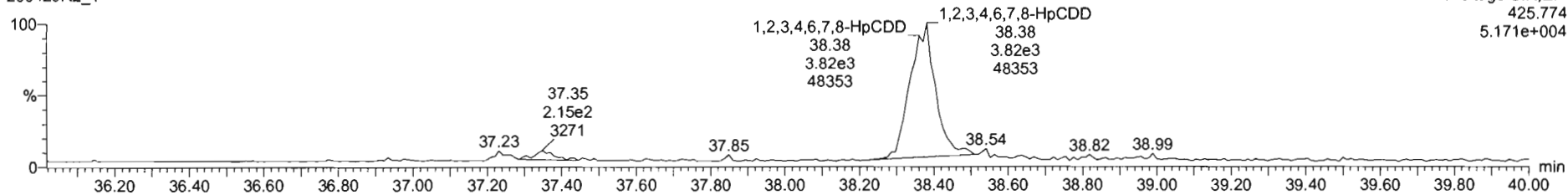
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200429R2\_1

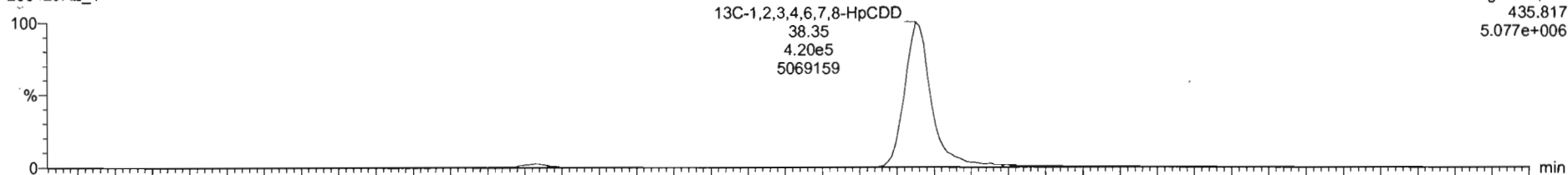


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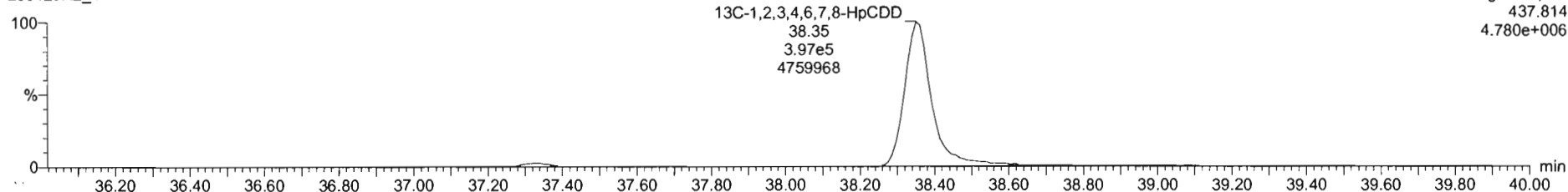


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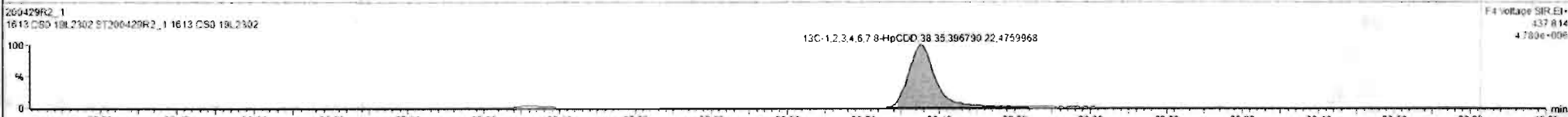
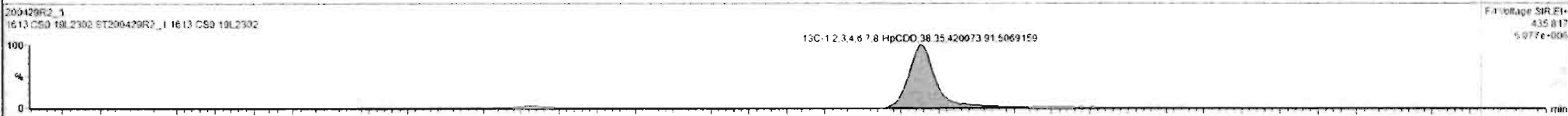
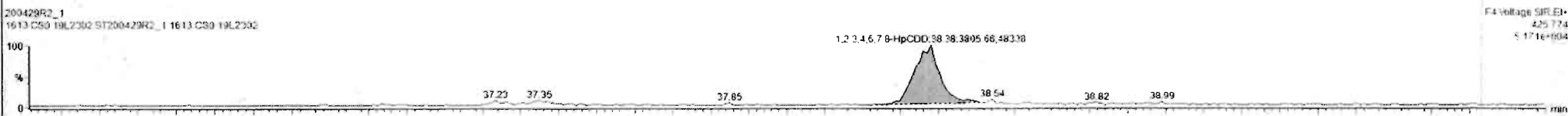
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200429R2\_1



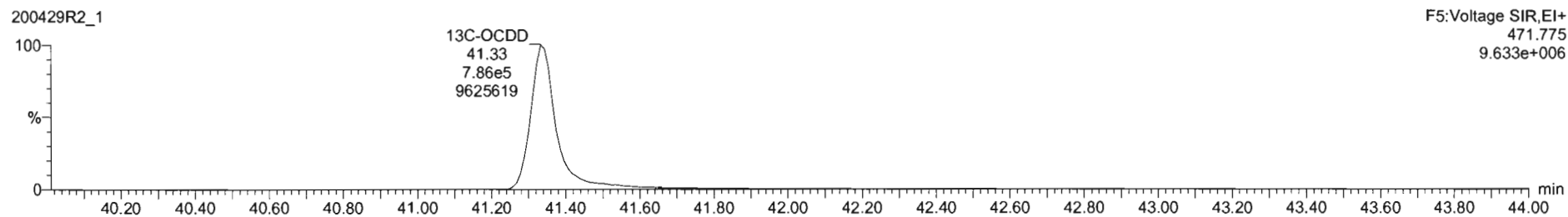
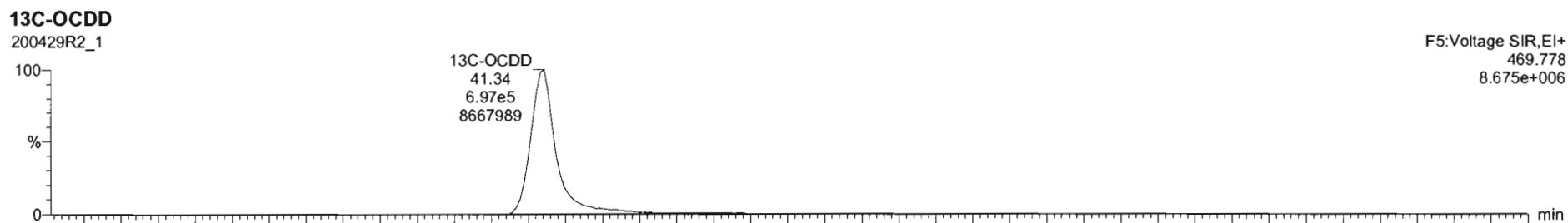
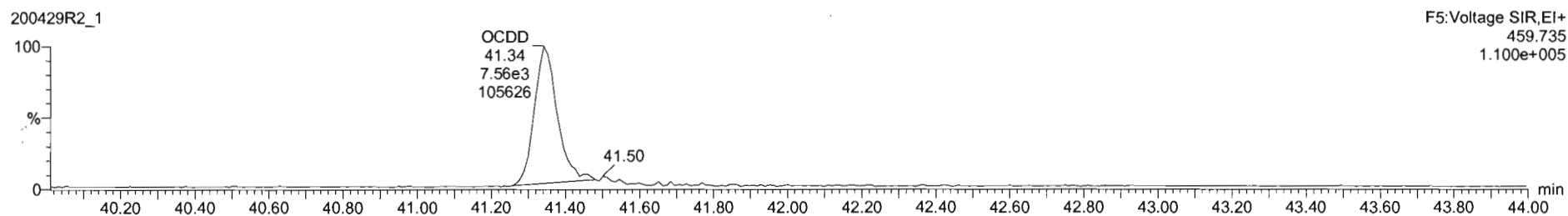
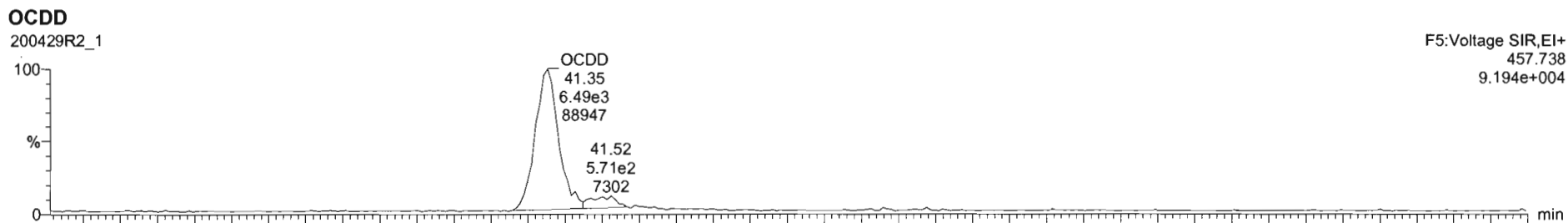
#	Name	RT	RA	y/h	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,6-TCDD	26.07	0.813	NO	3.6687e3	1.7082e6	0.250	-9.3	5.25	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2578e4	1.1846e6	1.250	-9.9	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.6491e5	1.250	-12.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.80	1.181	NO	1.1900e4	1.1694e6	1.250	-10.3	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.87	1.174	NO	9.9450e3	1.0177e6	1.250	-14.6	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	38.38	1.554	NO	7.9501e3	2.1666e5	1.250	-13.5	8.93	0.898	0.0622
7	OCDD	41.35	0.862	NO	1.4111e4	1.4188e6	2.500	-14.8	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.09	0.819	NO	4.5125e3	2.5190e6	0.250	-8.9	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.627	NO	1.9711e4	1.9415e6	1.250	-10.8	5.66	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.488	NO	2.0304e4	1.8427e6	1.250	-8.8	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.134	NO	1.1353e4	1.2150e6	1.250	-14.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.234	NO	1.3494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.138	NO	1.2362e4	1.2596e6	1.250	-14.7	7.69	0.922	0.0769
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	38.94	0.987	NO	8.5952e3	9.2356e5	1.250	-14.5	7.54	0.871	0.0627
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.8818e3	5.9812e5	1.250	-11.4	6.62	1.01	0.0670
17	OCDF	41.52	0.836	NO	1.4068e4	1.6199e6	2.500	-13.4	7.16	0.802	0.0575



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Name: 200429R2\_1, Date: 29-Apr-2020, Time: 13:27:25, ID: ST200429R2\_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302



#	Name	RT	RA	Y/N	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.97	0.813	NO	3.6687e3	1.7082e6	0.250	-9.3	5.35	0.947	0.0407
2	1,2,3,7,8-PeCDD	31.12	0.587	NO	1.2678e4	1.1845e6	1.250	-9.6	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.9568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0764
4	1,2,3,6,7,8-HxCDD	34.80	1.181	NO	1.1906e4	1.1604e6	1.250	-10.2	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.87	1.174	NO	9.9450e3	1.0177e6	1.250	-14.6	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	36.38	1.084	NO	7.9201e3	8.1686e5	1.250	-13.5	6.93	0.856	0.0622
7	OCDD	41.35	0.862	NO	1.4111e4	1.4189e6	2.500	-14.3	7.57	0.933	0.0767
8	2,3,7,8-TCDF	26.09	0.819	NO	4.5125e3	2.5190e6	0.250	-8.9	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.51	1.627	NO	1.9711e4	1.9415e6	1.250	-10.8	5.96	0.910	0.0533
10	1,2,3,4,7,8-PeCDF	30.80	1.455	NO	2.0204e4	1.9427e6	1.250	-8.8	4.98	0.966	0.0461
11	1,2,3,4,7,8-HxCDF	33.64	1.134	NO	1.1933e4	1.2190e6	1.250	-14.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.75	1.234	NO	1.3454e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.138	NO	1.2262e4	1.2596e6	1.250	-14.7	7.69	0.927	0.0769
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.94	0.967	NO	8.5552e3	9.2356e5	1.250	-14.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.6218e3	5.9612e5	1.250	-11.4	6.62	1.01	0.0670
17	OCDF	41.52	0.836	NO	1.4068e4	1.6199e6	2.500	-13.4	7.16	0.862	0.0575



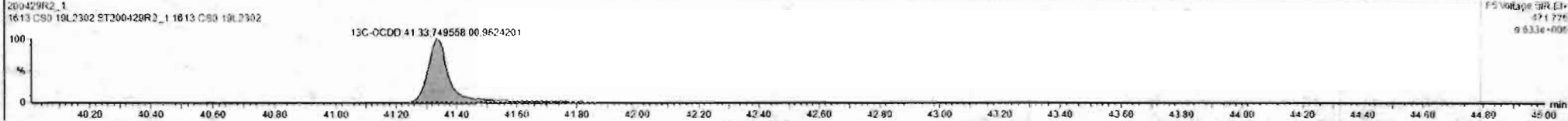
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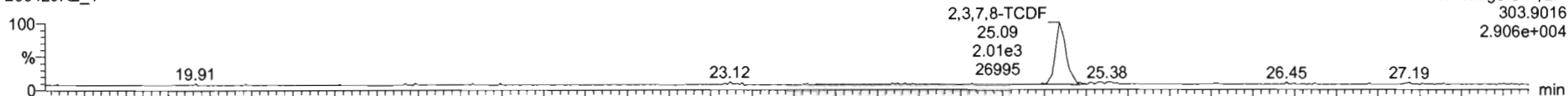
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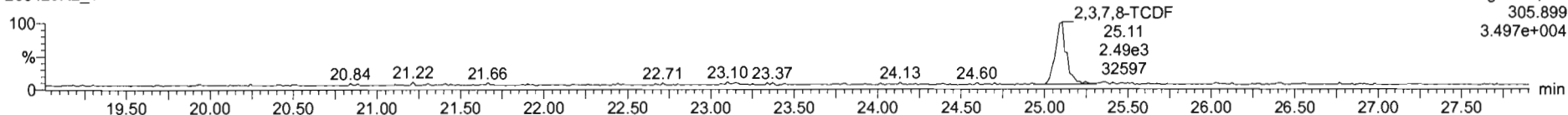
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**2,3,7,8-TCDF**

200429R2\_1

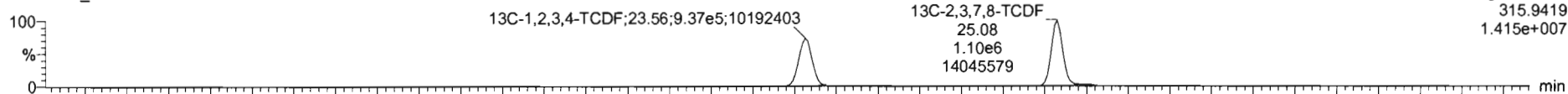


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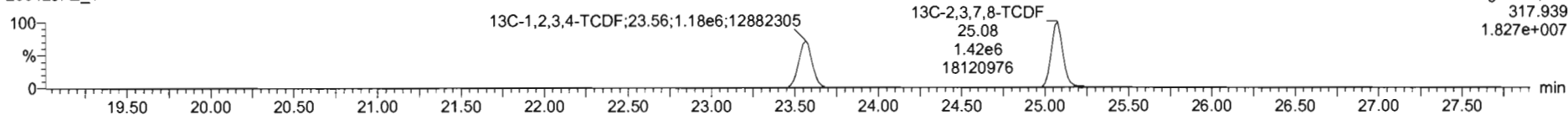


**13C-2,3,7,8-TCDF**

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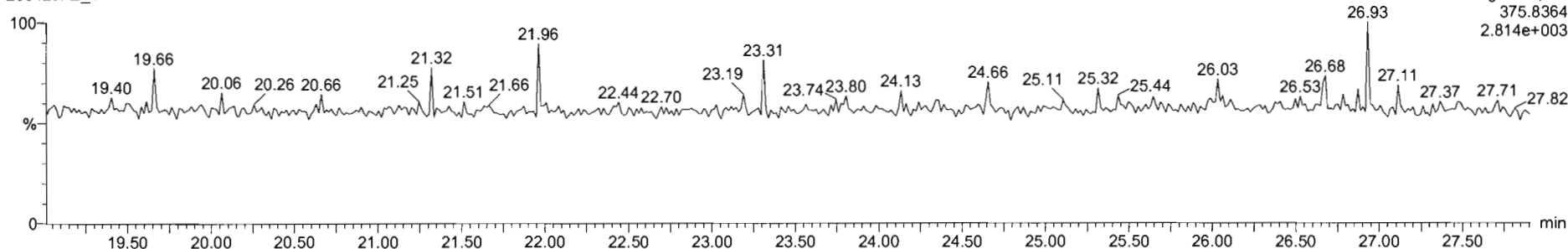


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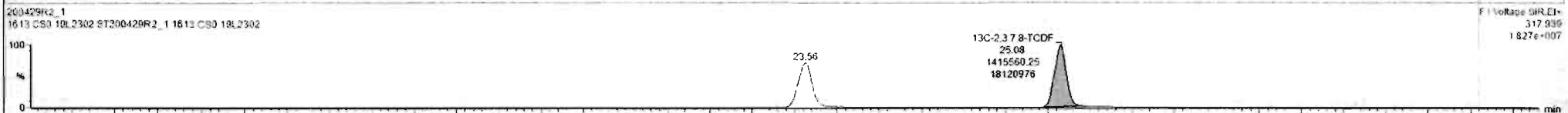
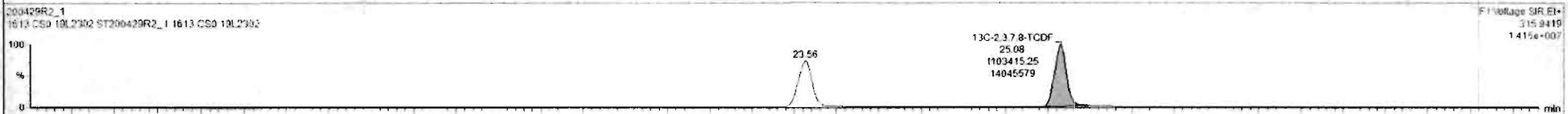
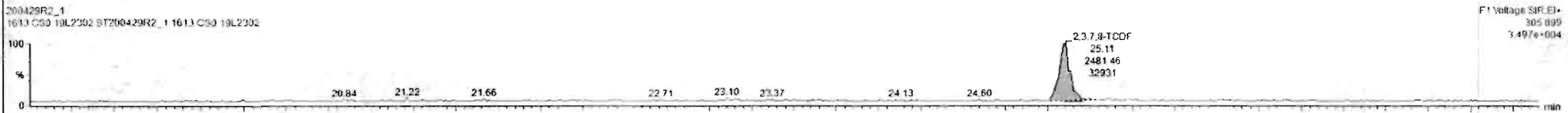
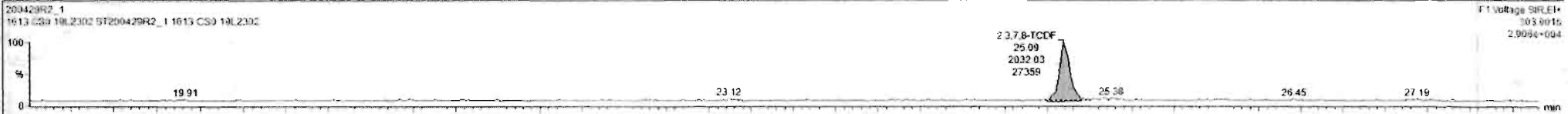


**DPE1**

200429R2\_1



#	Name	RT	RA	yh	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDF	26.07	0.813	NO	3.6607e3	1.7032e6	0.250	-9.3	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDF	31.13	0.587	NO	1.2578e4	1.1545e6	1.250	-9.9	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.80	1.181	NO	1.1900e4	1.1604e6	1.250	-10.3	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.87	1.174	NO	9.9450e3	1.0177e6	1.250	-14.6	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	38.38	1.084	NO	7.0301e3	3.1686e5	1.250	-13.5	6.93	0.698	0.0622
7	OCDD	41.35	0.862	NO	1.4111e4	1.4188e6	2.500	-14.0	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.09	0.819	NO	4.5135e3	2.5190e6	0.250	-8.9	5.11	0.787	0.0462
9	1,2,3,7,8-PeCDF	29.81	1.627	NO	1.9711e4	1.9415e6	1.250	-10.5	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.488	NO	2.0304e4	1.6427e6	1.250	-8.0	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.134	NO	1.1353e4	1.2190e6	1.250	-14.3	7.59	0.878	0.0566
12	1,2,3,6,7,8-HxCDF	33.78	1.234	NO	1.2494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.138	NO	1.2362e4	1.2596e6	1.250	-14.7	7.69	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.98	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.94	0.987	NO	3.5952e3	9.2386e5	1.250	-14.5	7.54	0.871	0.0557
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.8018e3	5.9012e5	1.250	-11.4	6.82	1.01	0.0870
17	OCDF	41.52	0.838	NO	1.4068e4	1.6198e6	2.500	-13.4	7.16	0.802	0.0575



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200429R2\_1

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3:57 AM

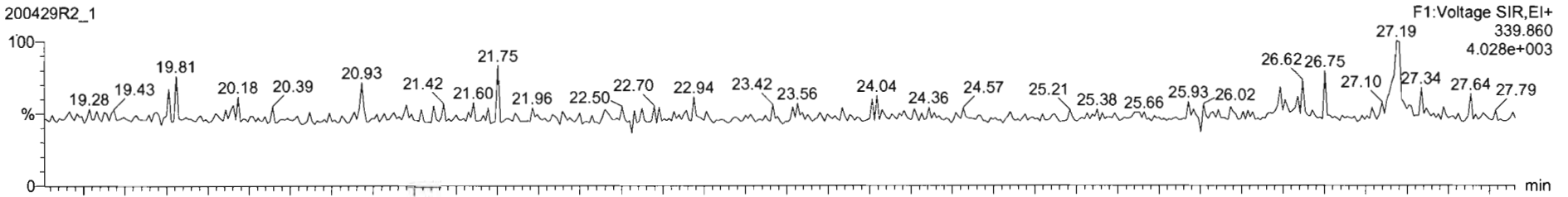
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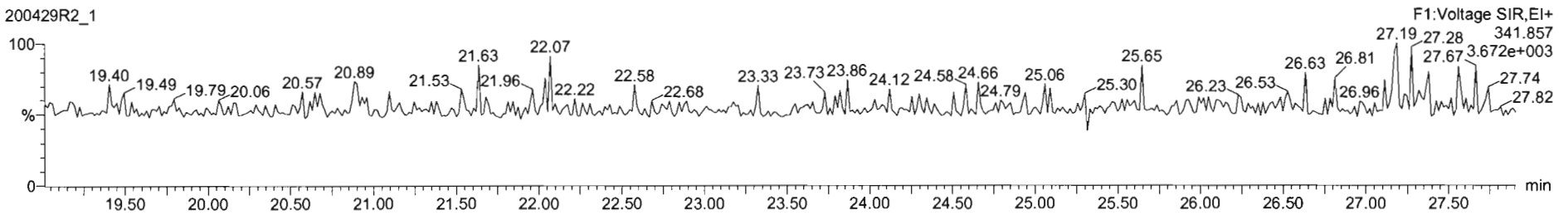
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200429R2\_1

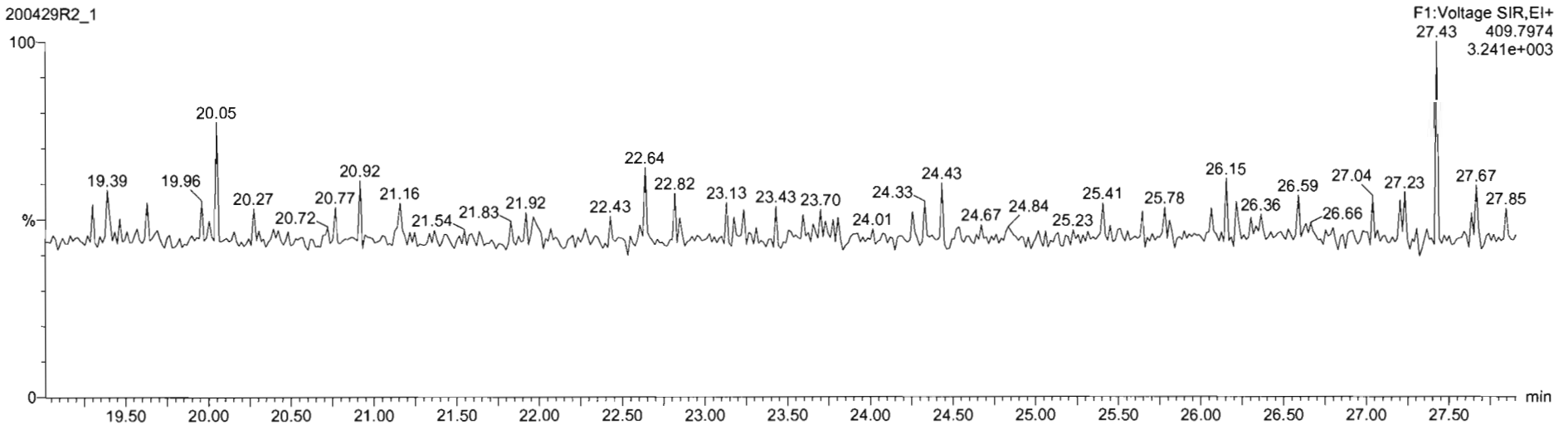


200429R2\_1



DPE6

200429R2\_1

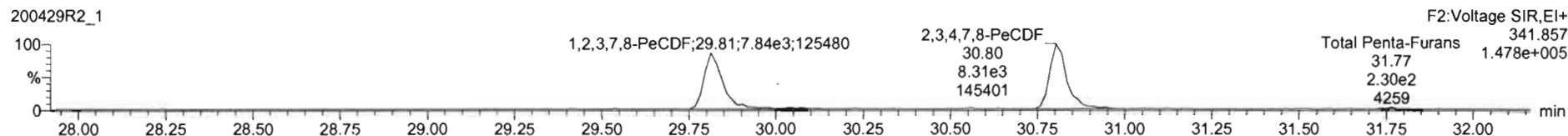
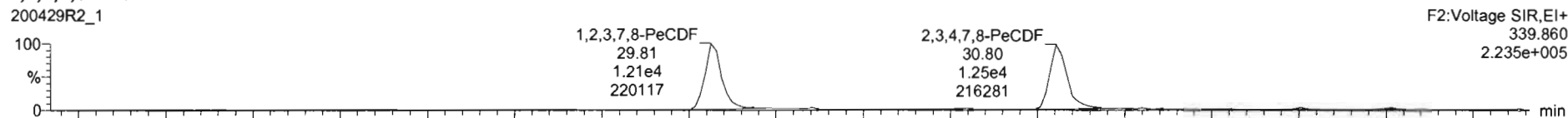


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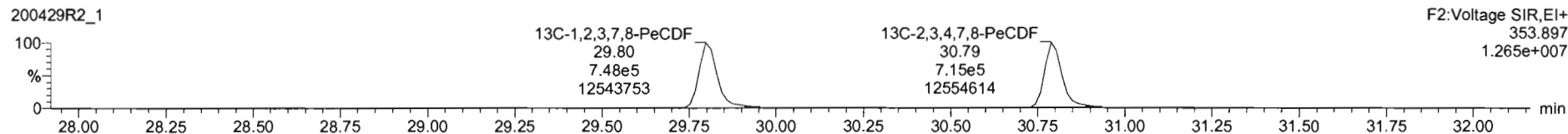
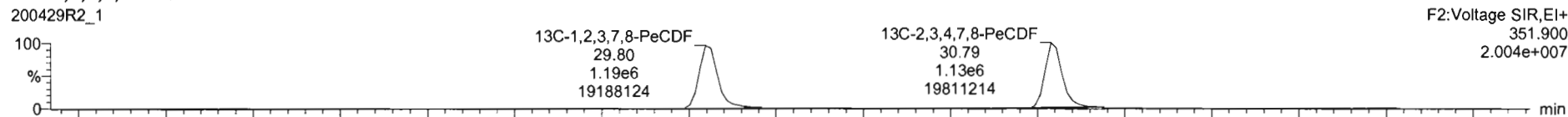
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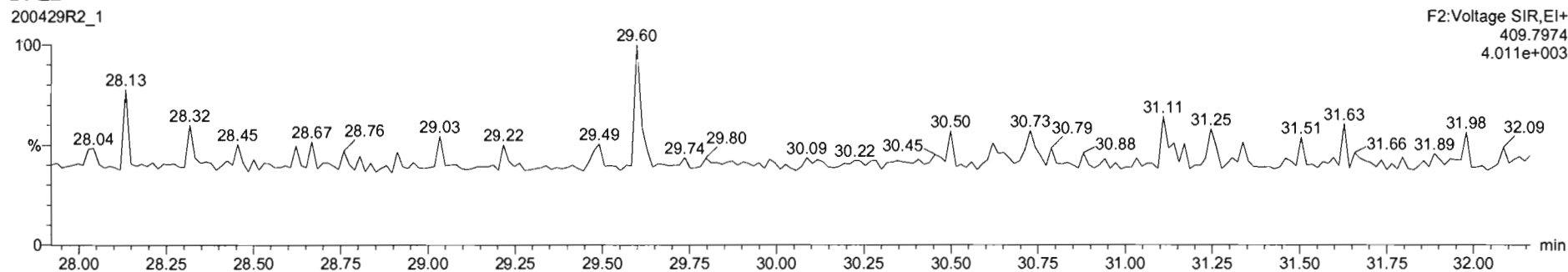
**1,2,3,7,8-PeCDF**



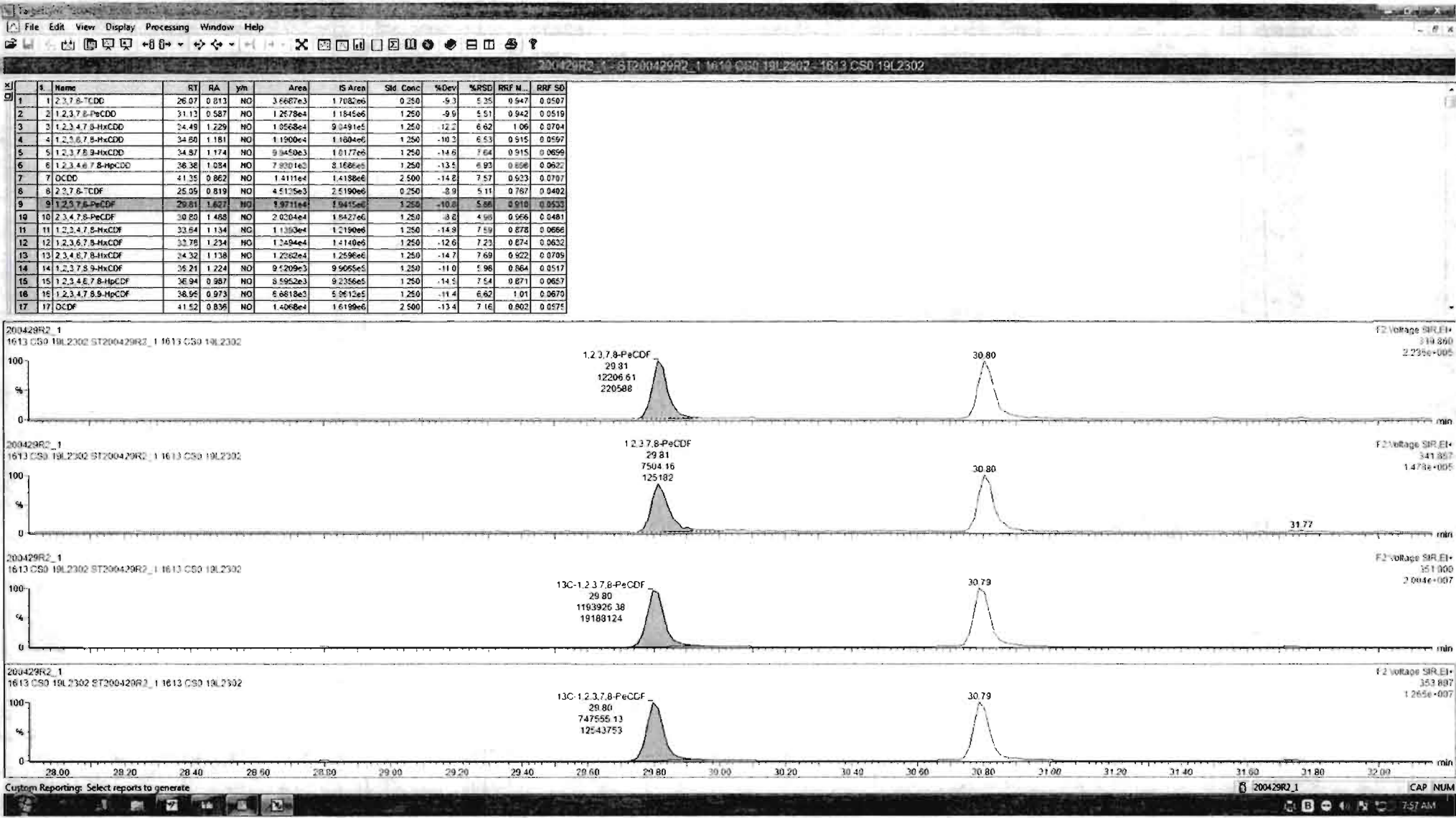
**13C-1,2,3,7,8-PeCDF**

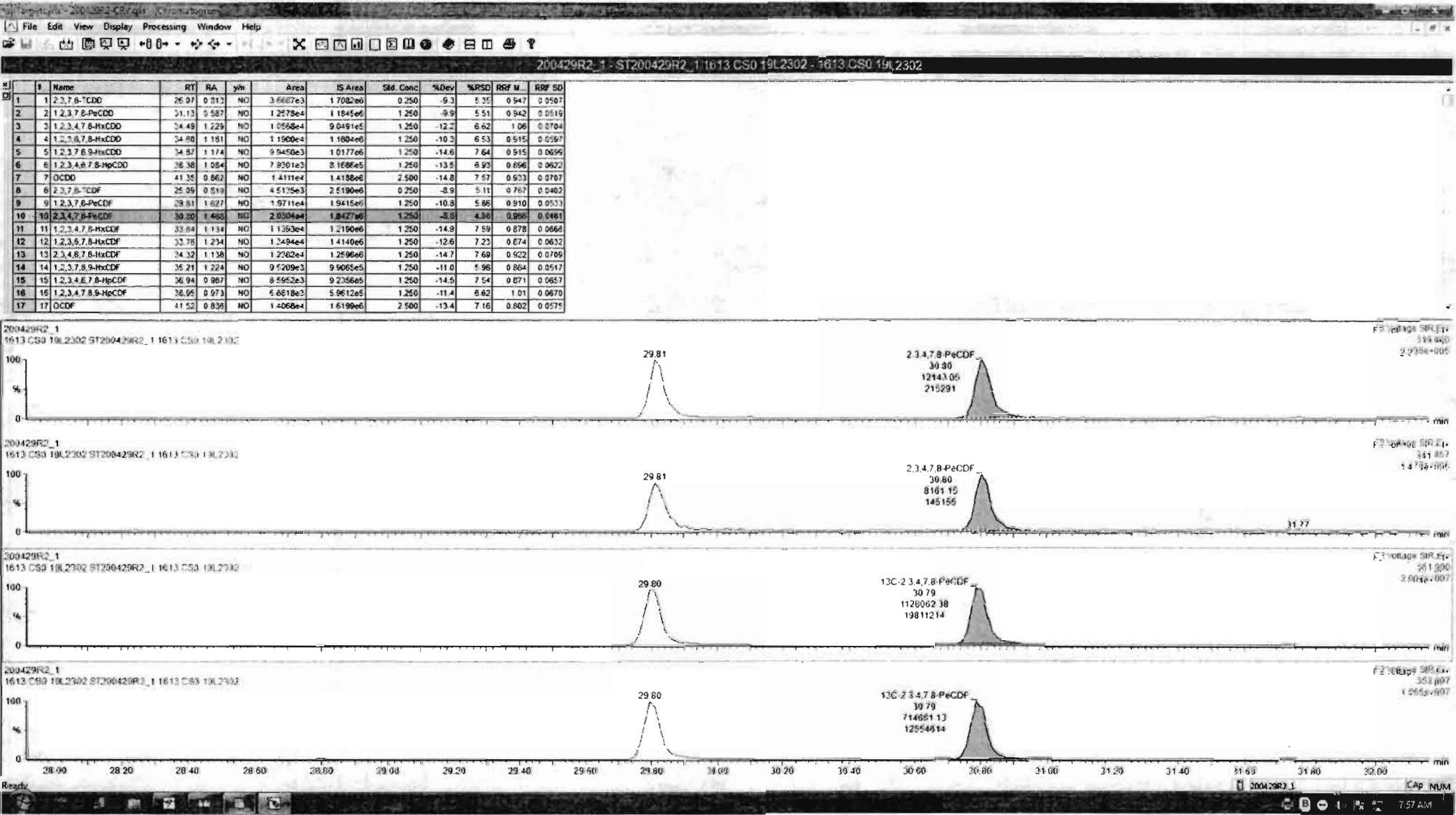


**DPE2**









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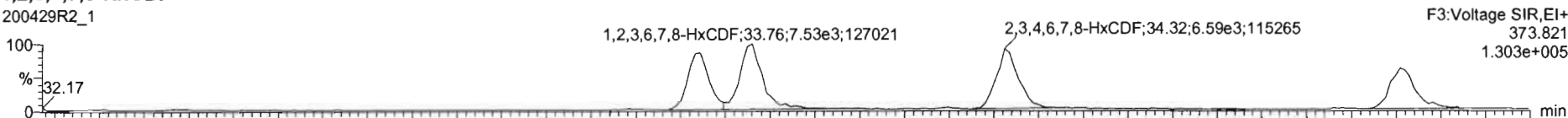
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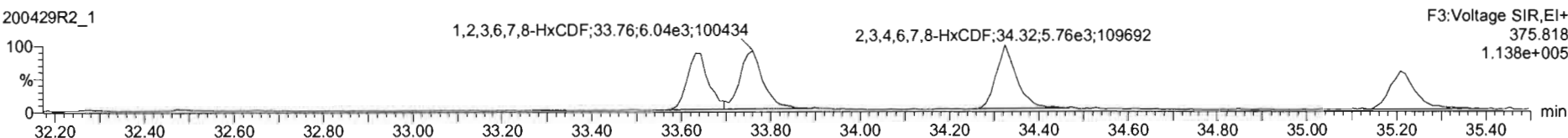
Name: 200429R2\_1, Date: 29-Apr-2020, Time: 13:27:25, ID: ST200429R2\_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

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

200429R2\_1

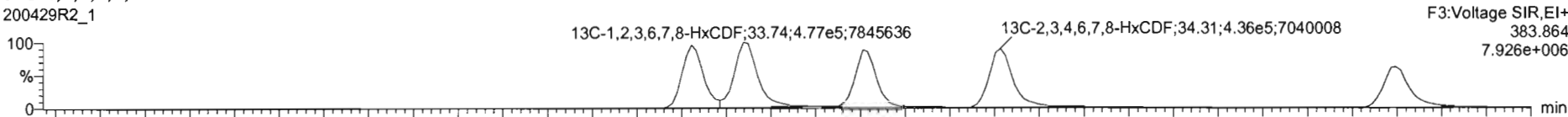


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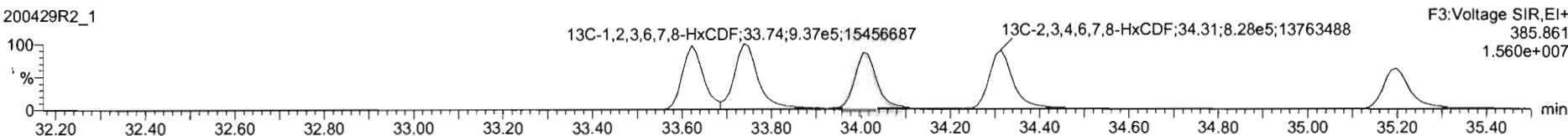


**13C-1,2,3,4,7,8-HxCDF**

200429R2\_1

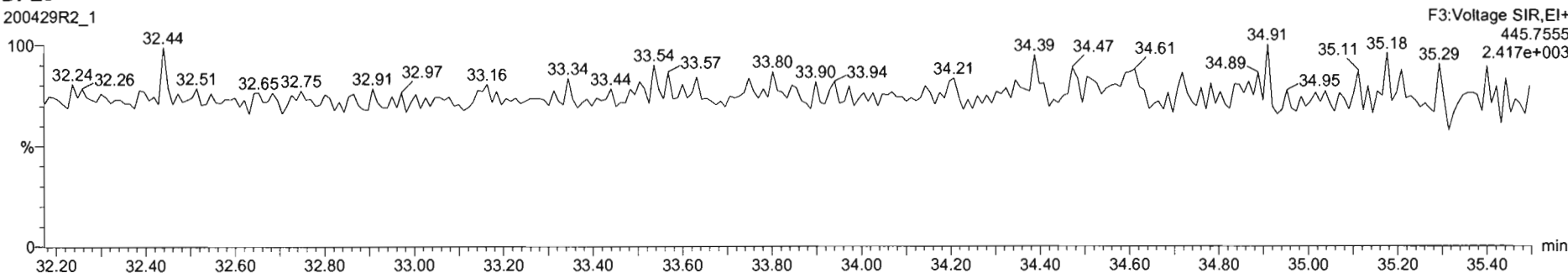


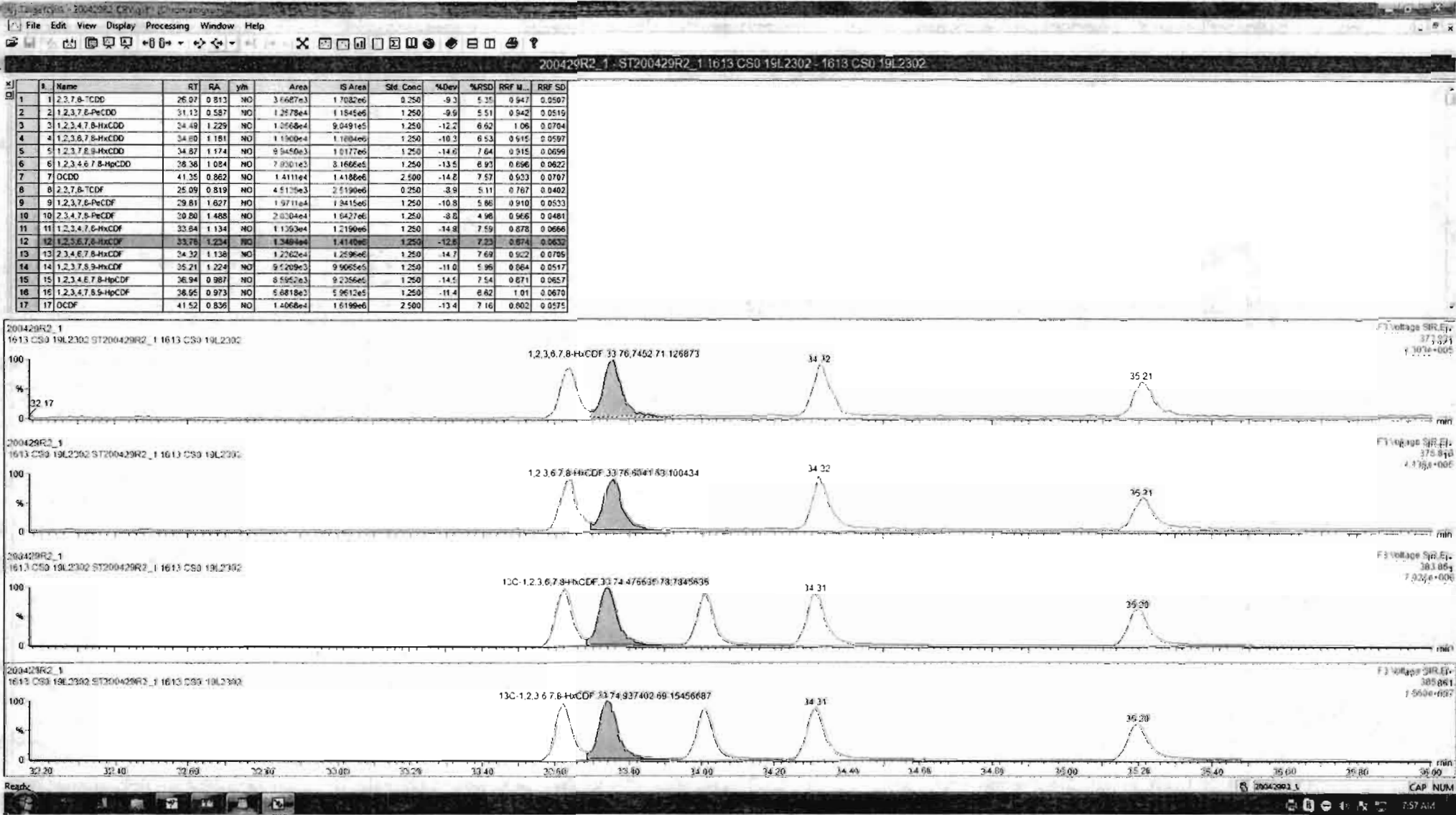
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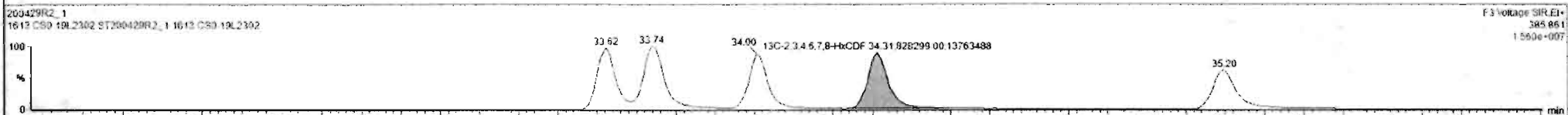
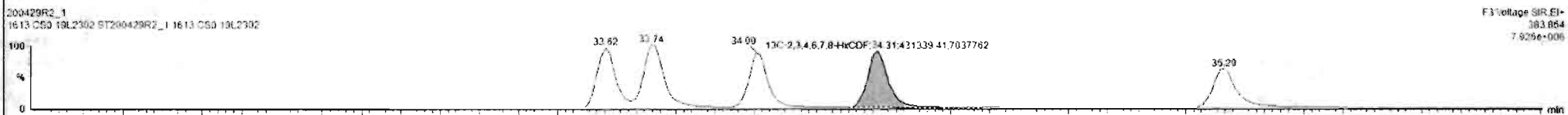
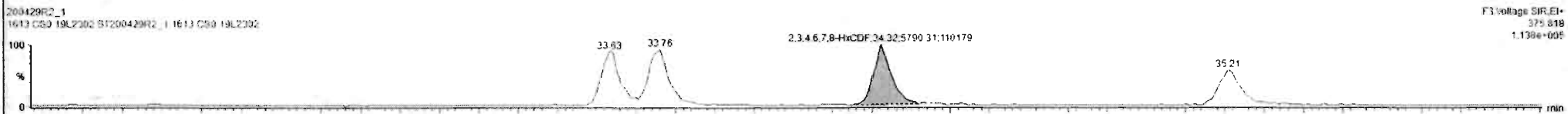
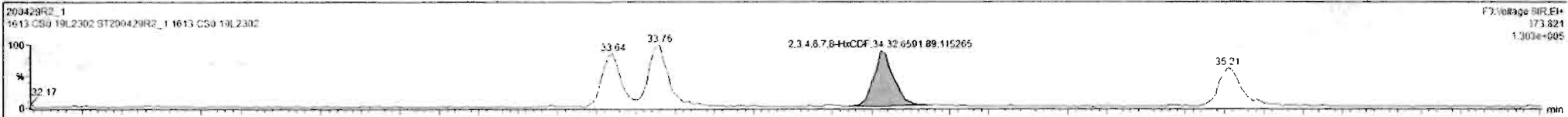
**DPE3**

200429R2\_1





Sl	Name	RT	RA	y/n	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	28.07	0.813	NO	3.6687e3	1.7082e6	0.250	-9.3	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2478e4	1.1845e6	1.250	-9.9	5.51	0.942	0.0515
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0704
4	1,2,3,7,8-HxCDD	34.80	1.181	NO	1.1900e4	1.1604e6	1.250	-10.3	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.57	1.174	NO	9.5450e3	1.0177e6	1.250	-14.0	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	38.38	1.084	NO	7.3001e3	8.1686e5	1.250	-13.5	6.93	0.656	0.0632
7	OCDD	41.35	0.862	NO	1.4111e4	1.4188e6	2.500	-14.8	7.57	0.923	0.0787
8	2,2,7,8-TCDF	25.05	0.819	NO	4.5125e3	2.5190e6	0.250	-8.9	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.627	NO	1.9711e4	1.9415e6	1.250	-10.8	5.88	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.488	NO	2.0204e4	1.9427e6	1.250	-8.2	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.134	NO	1.1363e4	1.2190e6	1.250	-14.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	32.70	1.234	NO	1.3494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.130	NO	1.2232e4	1.2590e6	1.250	-14.7	7.68	0.922	0.0766
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.96	0.964	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.94	0.987	NO	8.5952e3	9.2386e5	1.250	-14.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.6818e3	5.9612e5	1.250	-11.4	6.62	1.01	0.0670
17	DCDF	41.52	0.836	NO	1.4068e4	1.6189e6	2.500	-13.4	7.16	0.802	0.0575



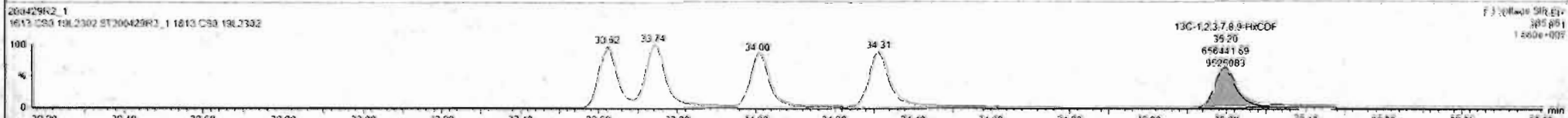
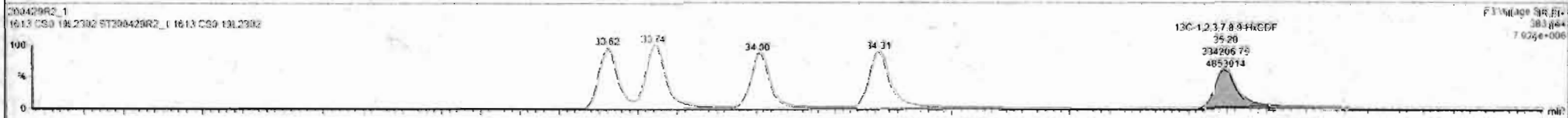
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200429R2\_1

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7:58 AM

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1	1,2,3,7,8-TCDD	26.07	0.813	NO	3.6687e3	1.7082e6	0.250	-9.3	6.30	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2778e4	1.1845e6	1.250	-9.9	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.181	NO	1.1900e4	1.1689e6	1.250	-10.3	6.53	0.515	0.0597
5	1,2,3,7,8-HxCDF	34.87	1.174	NO	9.5450e3	1.0177e6	1.250	-14.6	7.64	0.915	0.0696
6	1,2,3,4,6,7,8-HpCDD	38.38	1.084	NO	7.9016e3	3.1686e5	1.250	-13.5	6.92	0.696	0.0632
7	OCDD	41.35	0.862	NO	1.4111e4	1.4188e6	2.500	-14.0	7.57	0.623	0.0707
8	1,2,3,7,8-TCDF	25.09	0.819	NO	4.5125e3	2.4196e6	0.250	-8.9	5.11	0.767	0.0402
9	1,2,3,7,6-PeCDF	29.81	1.627	NO	1.9711e4	1.9415e6	1.250	-10.8	5.86	0.910	0.0533
10	1,2,3,4,7,8-PeCDF	30.80	1.488	NO	2.0044e4	1.9427e6	1.250	-8.8	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.134	NO	1.1363e4	1.2190e6	1.250	-14.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.234	NO	1.3494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	1,2,3,4,6,7,8-HxCDF	34.37	1.138	NO	1.2062e4	1.2596e6	1.250	-14.7	7.69	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.98	0.704	0.0517
15	1,2,3,4,6,7,8-HpCDF	38.94	0.967	NO	8.5952e3	9.2356e5	1.250	-14.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.6818e3	5.9612e5	1.250	-11.4	6.82	1.01	0.0670
17	OCDF	41.52	0.836	NO	1.4066e4	1.6199e6	2.500	-13.4	7.16	0.802	0.0575



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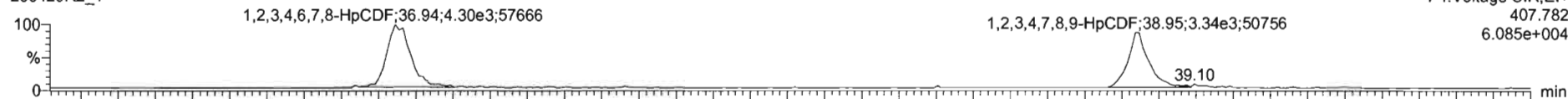
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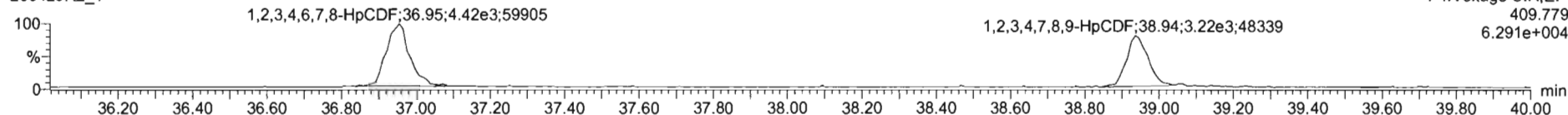
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**1,2,3,4,6,7,8-HpCDF**

200429R2\_1

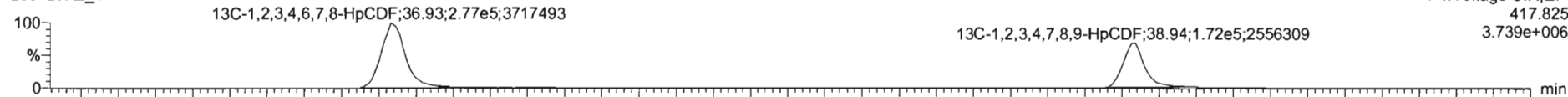


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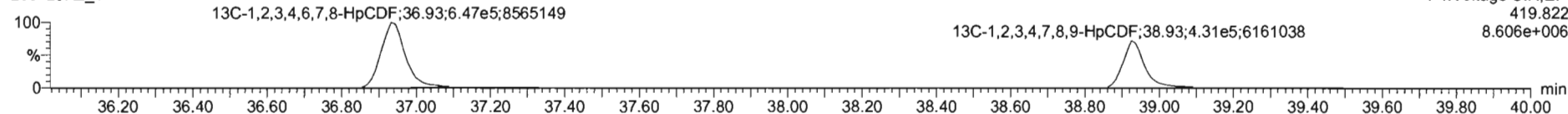


**13C-1,2,3,4,6,7,8-HpCDF**

200429R2\_1

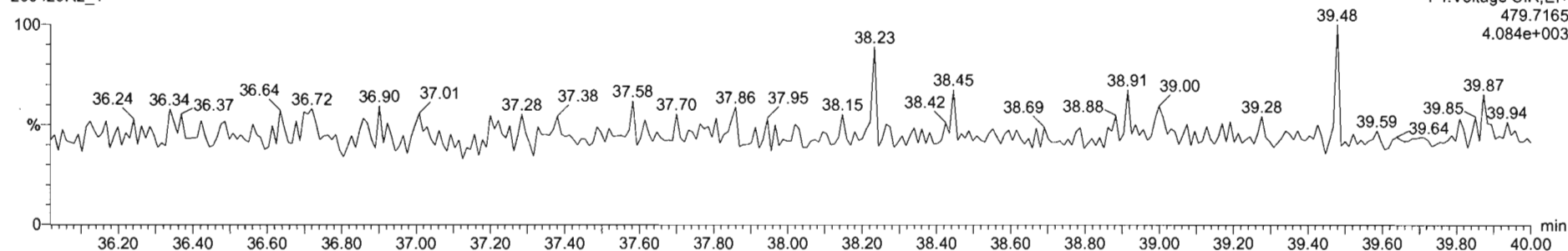


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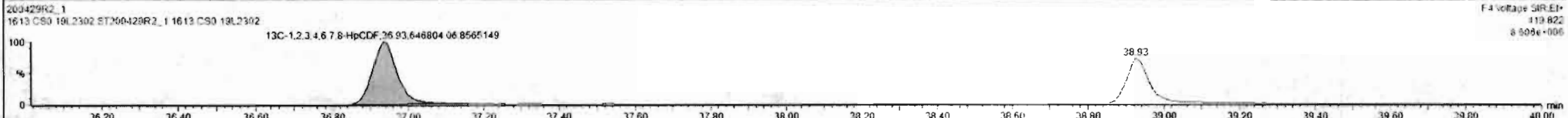
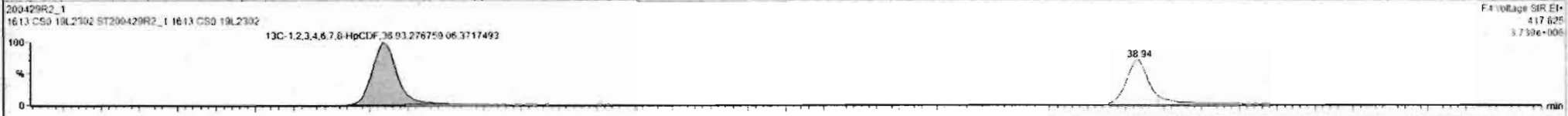
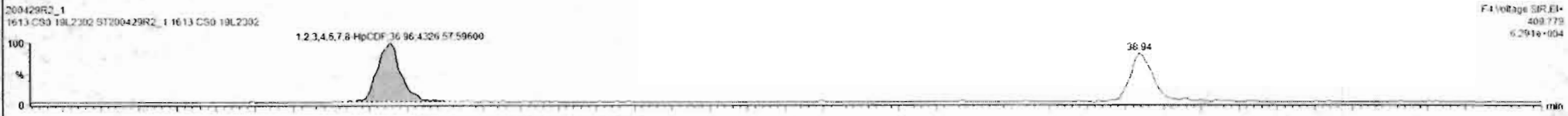
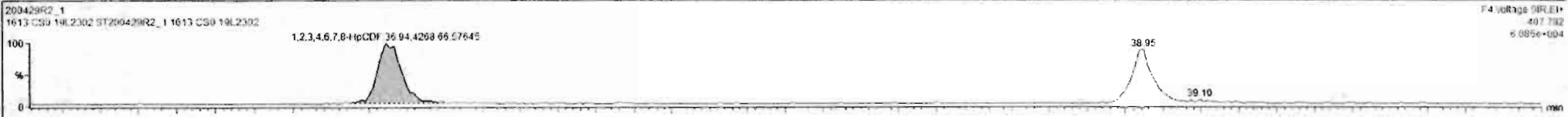


**DPE4**

200429R2\_1

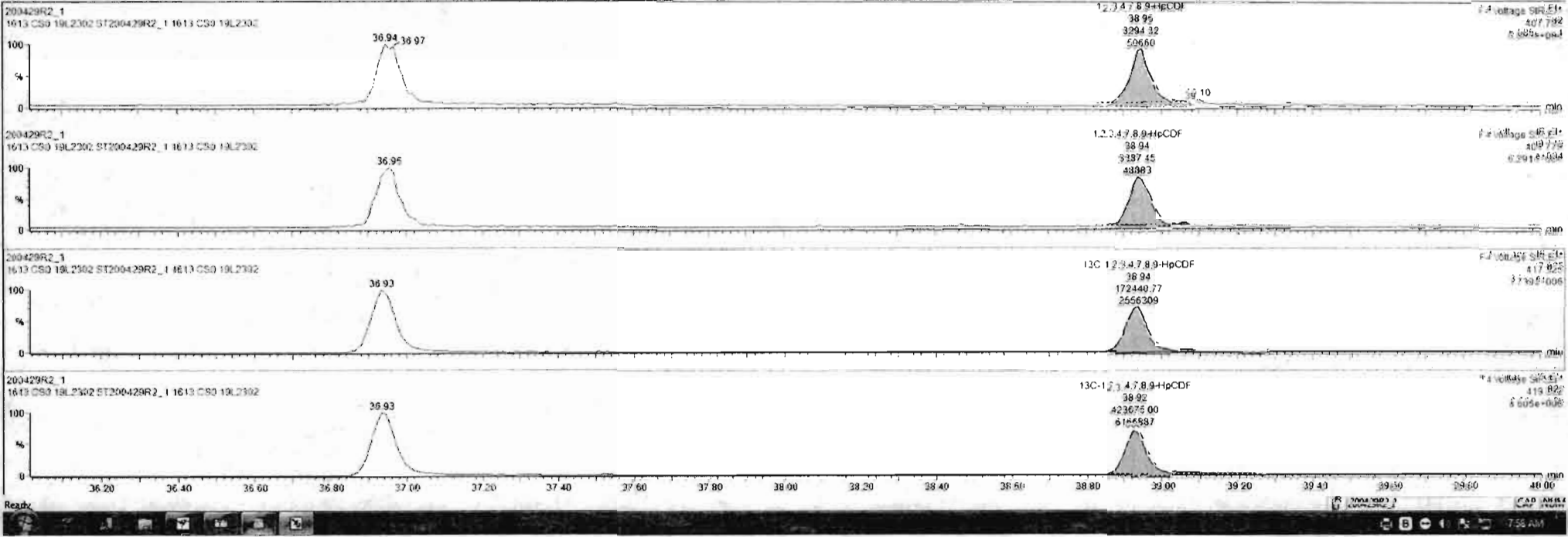


#	Name	RT	RA	y/n	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.813	NO	3.6667e3	1.7087e6	0.250	-9.3	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2678e4	1.1945e6	1.250	-9.9	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.9491e5	1.250	-12.2	6.62	1.06	0.0764
4	1,2,3,6,7,8-HxCDD	34.80	1.181	NO	1.1900e4	1.1604e6	1.250	-10.3	6.53	0.915	0.0567
5	1,2,3,7,8,9-HxCDD	34.87	1.174	NO	9.9450e3	1.0177e6	1.250	-14.6	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	36.38	1.084	NO	7.9201e3	8.1696e5	1.250	-13.5	6.93	0.656	0.0622
7	OCDD	41.35	0.862	NO	1.4111e4	1.4188e6	2.500	-14.8	7.57	0.933	0.0707
8	1,2,3,7,8-TCDF	25.09	0.819	NO	4.5125e3	2.5190e6	0.250	-3.9	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.51	1.627	NO	1.9711e4	1.9415e6	1.250	-10.3	5.66	0.910	0.0533
10	1,2,3,4,7,8-HxCDF	30.80	1.468	NO	2.9304e4	1.8427e6	1.250	-8.2	4.98	0.966	0.0461
11	1,2,3,4,7,8-HxCDF	33.84	1.134	NO	1.1363e4	1.2190e6	1.250	-14.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.234	NO	1.3494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	1,2,3,4,6,7,8-HpCDF	34.32	1.138	NO	1.2282e4	1.2596e6	1.250	-14.7	7.68	0.922	0.0789
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.96	0.984	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.94	0.987	NO	8.5862e3	9.2366e5	1.250	-14.5	7.54	0.871	0.0667
16	1,2,3,4,7,8,9-HpCDF	38.95	0.873	NO	6.6818e3	5.9612e5	1.250	-11.4	6.62	1.01	0.0670
17	OCDF	41.52	0.836	NO	1.4068e4	1.6199e6	2.500	-13.4	7.16	0.802	0.0575





#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.813	NO	3.6687e3	1.7082e6	0.250	9.3	6.35	0.547	0.0567
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2578e4	1.1846e6	1.250	-9.5	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.80	1.161	NO	1.1900e4	1.1604e6	1.250	-10.3	6.53	0.515	0.0592
5	1,2,3,7,8,9-HxCDD	34.87	1.174	NO	9.9450e3	1.0177e6	1.250	-14.6	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	38.38	1.054	NO	7.9301e3	8.1686e5	1.250	-13.5	6.93	0.856	0.0622
7	OCDD	41.35	0.862	NO	1.4111e4	1.4198e6	2.500	-14.0	7.57	0.923	0.0702
8	2,3,7,8-TCDF	25.09	0.819	NO	4.5125e3	2.5190e6	0.250	-8.9	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.627	NO	1.9711e4	1.9415e6	1.250	-10.8	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.458	NO	2.0204e4	1.9427e6	1.250	-8.0	4.98	0.566	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.134	NO	1.1353e4	1.2190e6	1.250	-14.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.234	NO	1.3494e4	1.4140e6	1.250	-12.6	7.23	0.674	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.138	NO	1.2262e4	1.2596e6	1.250	-14.7	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.6065e5	1.250	-11.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.94	0.987	NO	8.5952e3	9.2356e5	1.250	-14.5	7.54	0.671	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.8019e3	5.9612e5	1.250	-11.4	6.62	1.01	0.0670
17	OCDF	41.52	0.826	NO	1.4066e4	1.6199e6	2.500	-13.4	7.10	0.802	0.0575

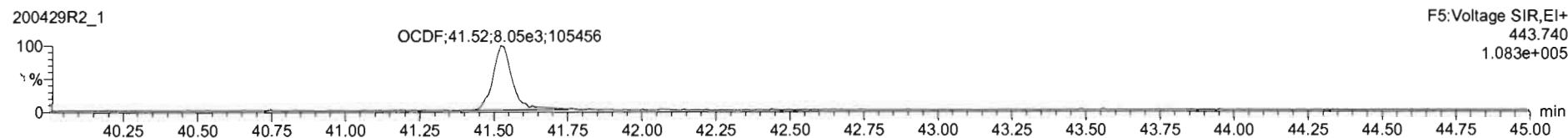


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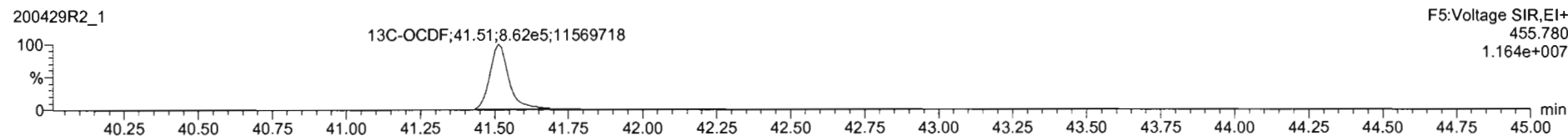
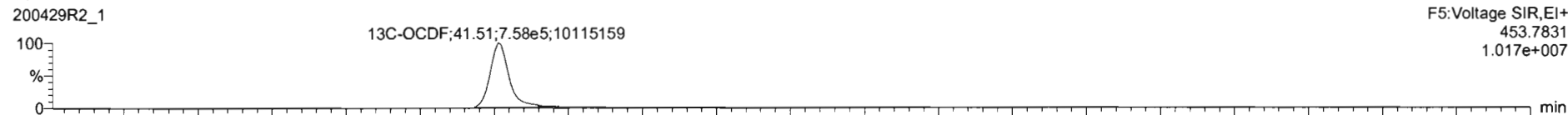
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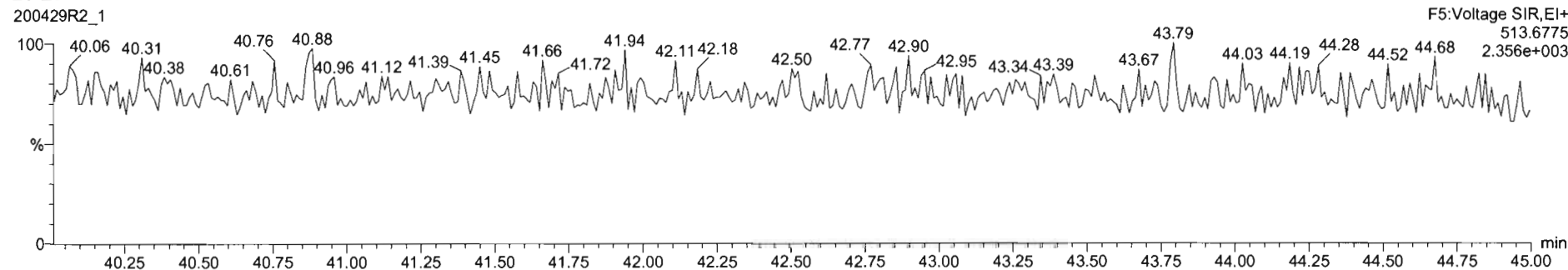
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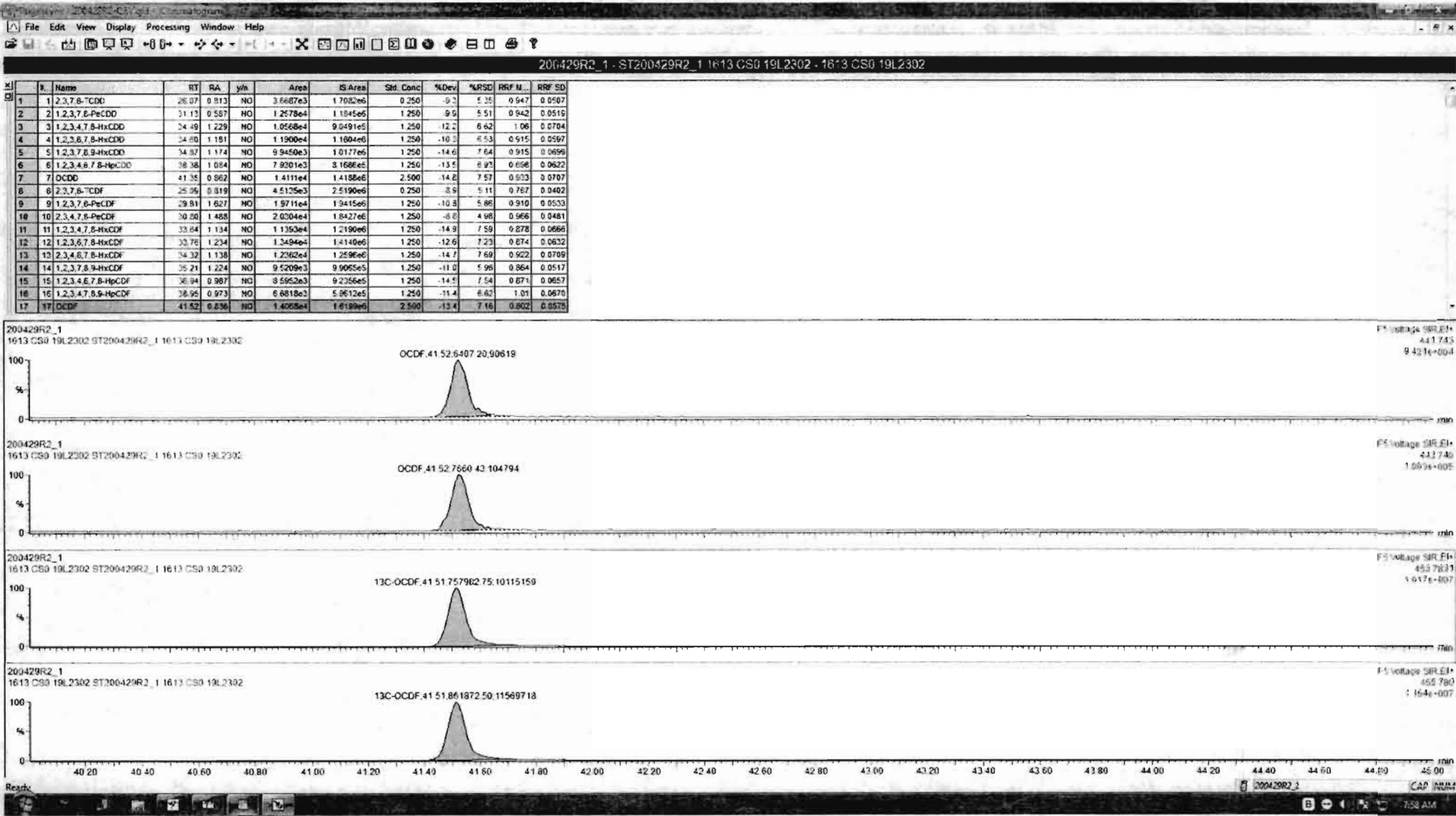


**13C-OCDF**



**DPE5**

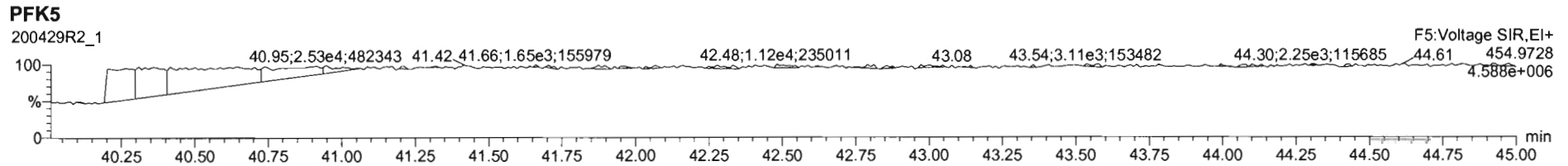
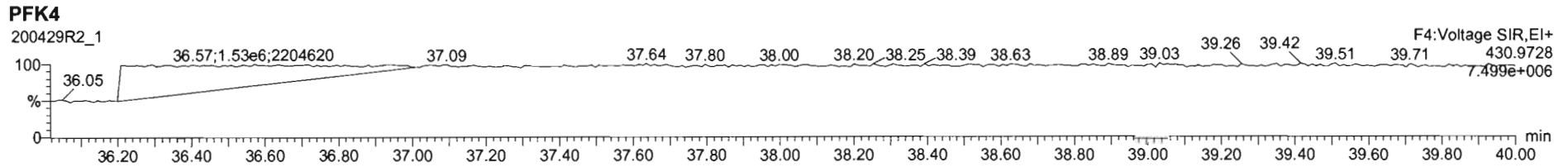
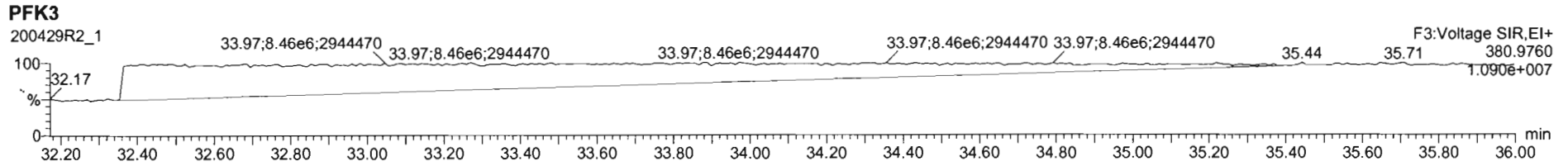
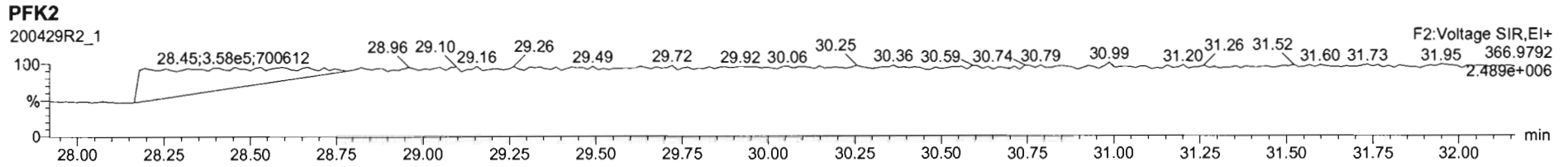
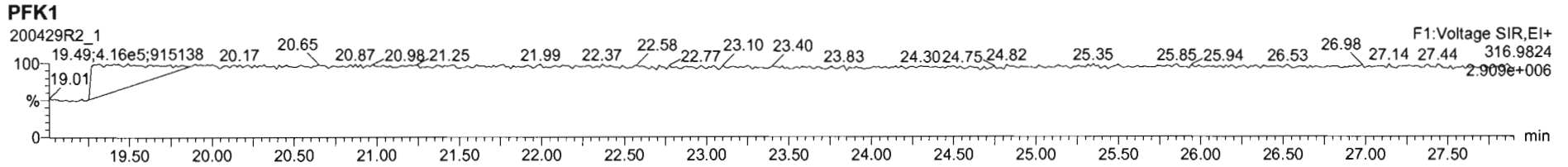




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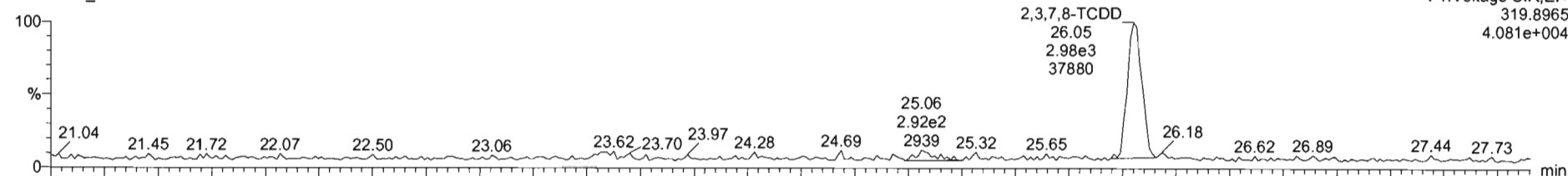
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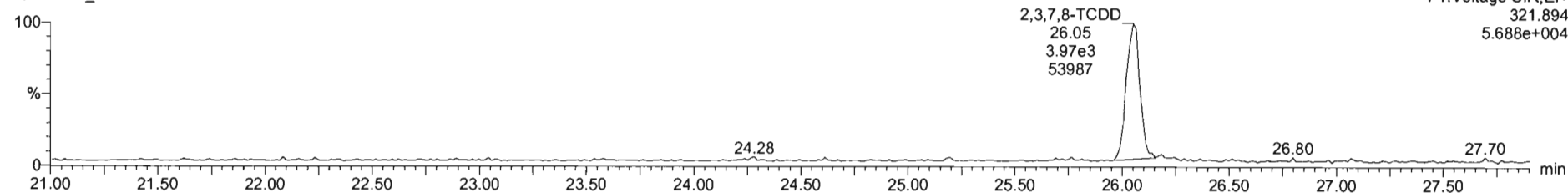
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**2,3,7,8-TCDD**

200429R2\_2

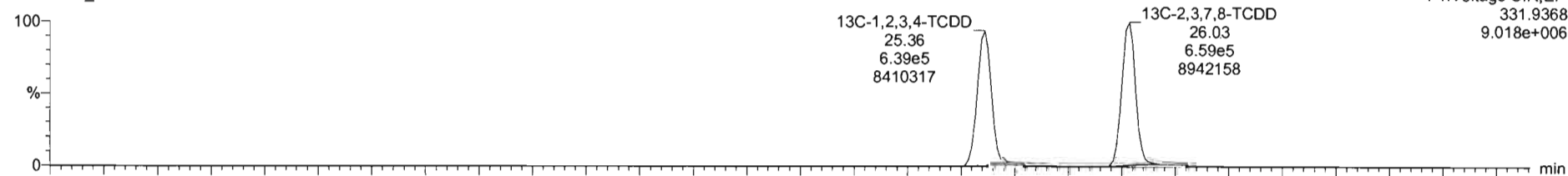


200429R2\_2

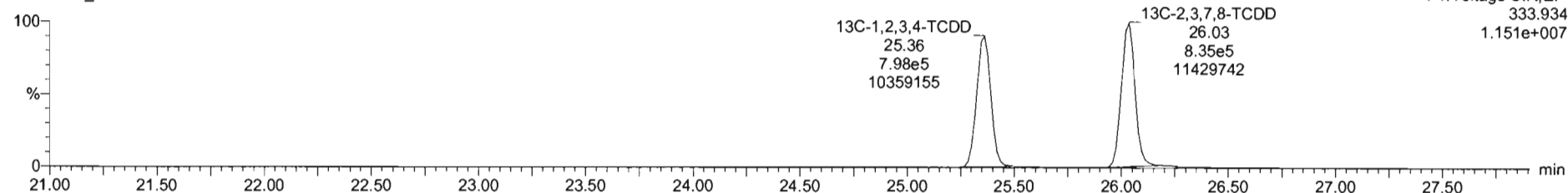


**13C-2,3,7,8-TCDD**

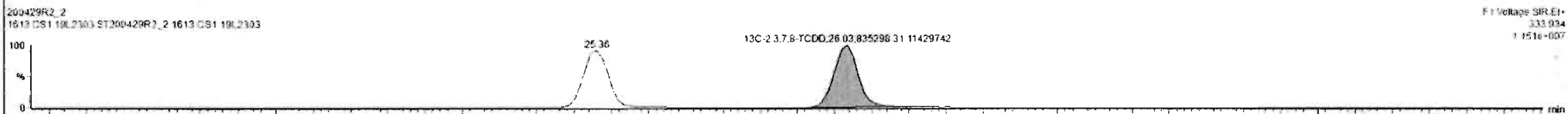
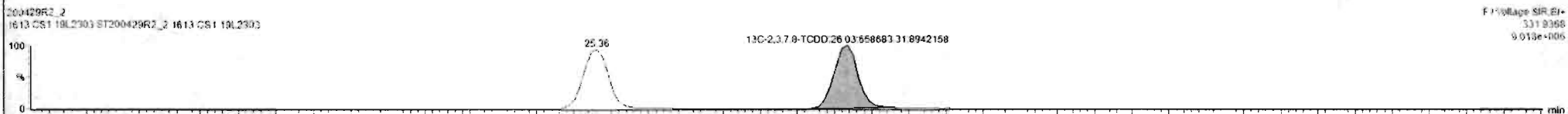
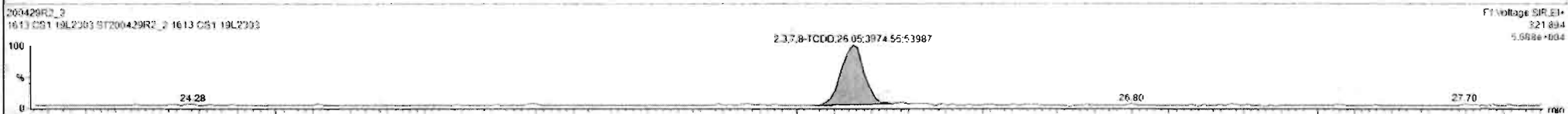
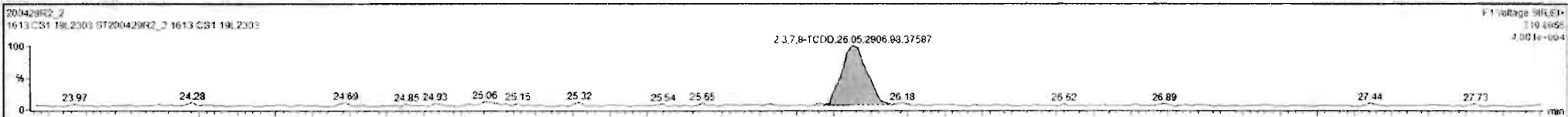
200429R2\_2



200429R2\_2



#	Name	RT	RA	y/n	Area	IS Area	Std Conc	%Dev	%RSD	RRF M	RRF SD
1	2,3,7,8-TCDD	26.05	0.731	NO	6.8015e3	1.4946e6	6.500	-2.8	5.35	0.547	0.0567
2	1,2,3,7,8-PeCDD	31.14	0.613	NO	2.4051e4	1.0247e6	2.500	-0.4	5.51	0.942	0.0515
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4525e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.80	1.187	NO	2.1618e4	9.8509e5	2.500	-3.1	6.53	0.515	0.0597
5	1,2,3,7,8,9-HxCDD	34.88	1.205	NO	1.9608e4	8.4960e5	2.500	1.9	7.64	0.915	0.0696
6	1,2,3,4,6,7,8-HpCDD	38.37	1.010	NO	1.4785e4	6.9692e5	2.500	-0.2	6.93	0.696	0.0602
7	OCDD	41.25	0.914	NO	2.7910e4	1.2052e6	5.000	-0.8	7.57	0.923	0.0767
8	2,3,7,8-TCDF	25.11	0.746	NO	8.7318e3	2.2156e6	0.500	0.1	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.83	1.542	NO	3.8524e4	1.6515e6	2.500	0.1	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.82	1.528	NO	3.8966e4	1.6151e6	2.500	-0.1	4.90	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.211	NO	2.2618e4	1.0213e6	2.500	0.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.76	1.187	NO	2.5479e4	1.1632e6	2.500	-1.4	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.183	NO	2.3827e4	1.0498e6	2.500	-1.5	7.69	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.21	1.206	NO	1.8611e4	6.7735e5	2.500	-1.8	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7338e4	7.8418e5	2.500	1.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.954	NO	1.1991e4	4.9230e5	2.500	3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.853	NO	2.7424e4	1.4610e6	5.000	-2.4	7.16	0.802	0.0575



Custom Reporting: Select reports to generate

200429R2\_2

CAP NUM

Dataset: Untitled

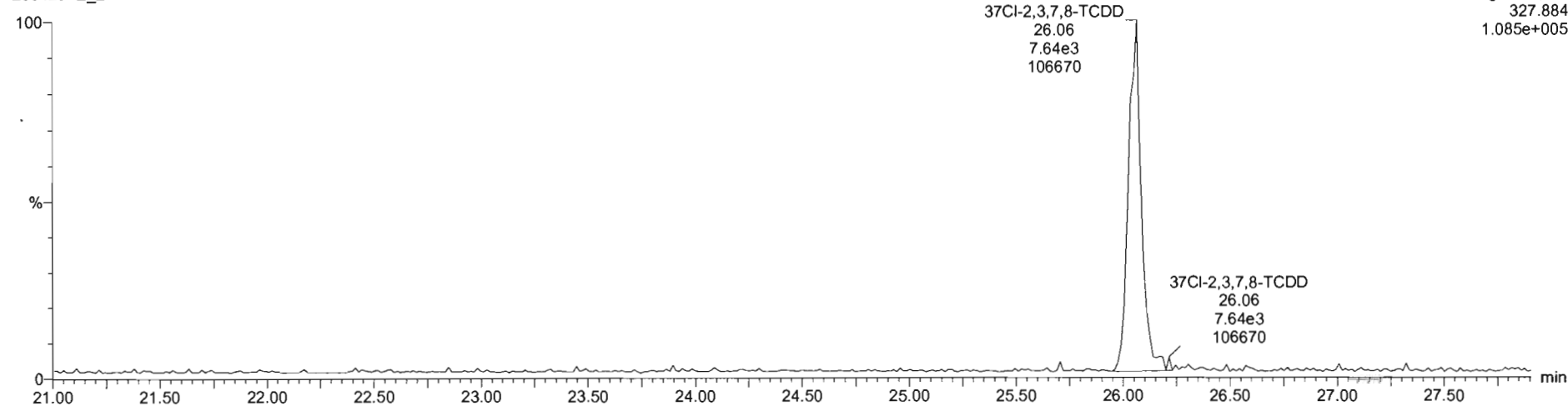
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

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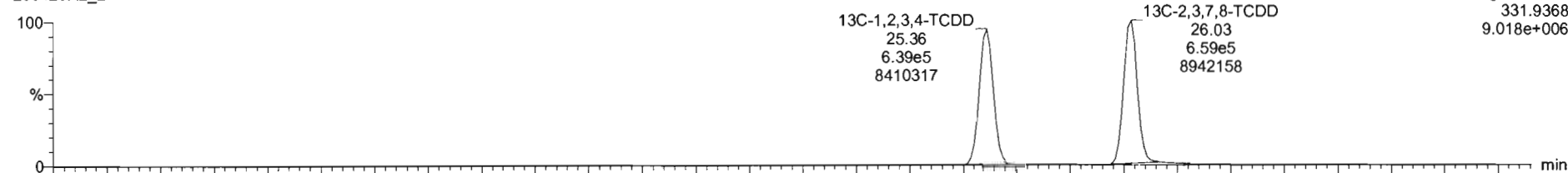
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200429R2\_2

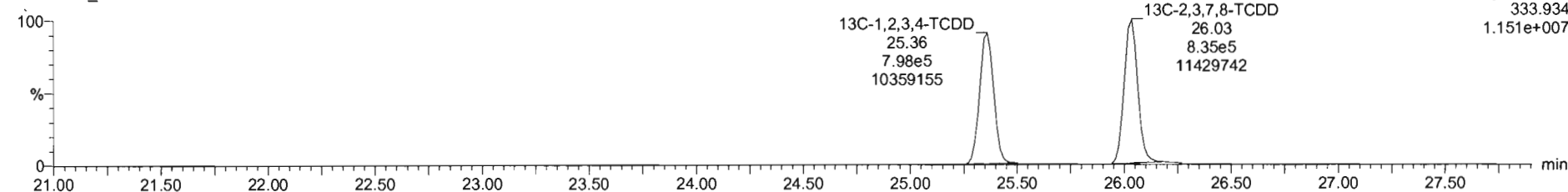


**13C-1,2,3,4-TCDD**

200429R2\_2



200429R2\_2



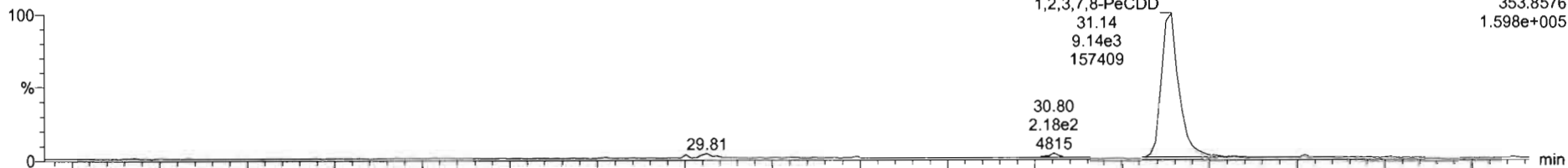
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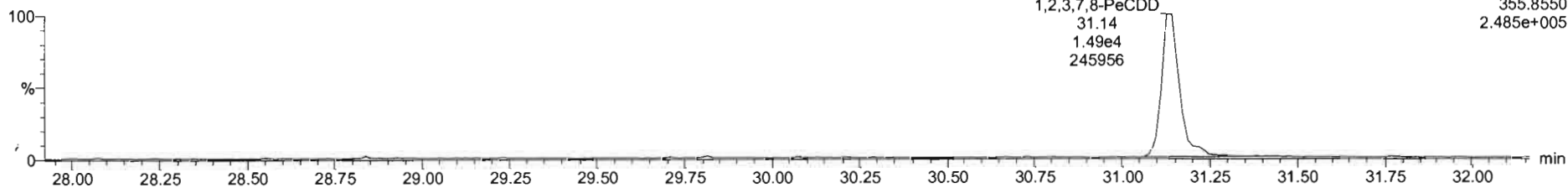
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**1,2,3,7,8-PeCDD**

200429R2\_2

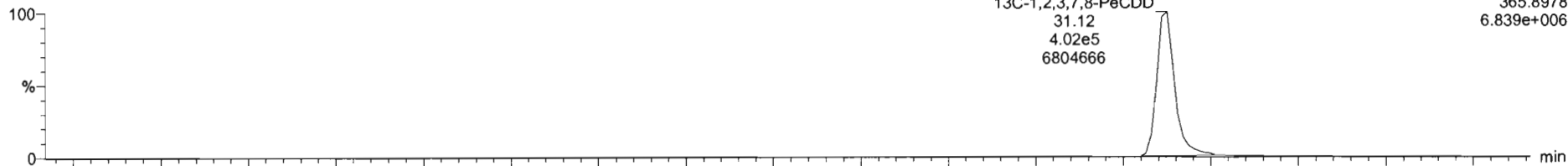


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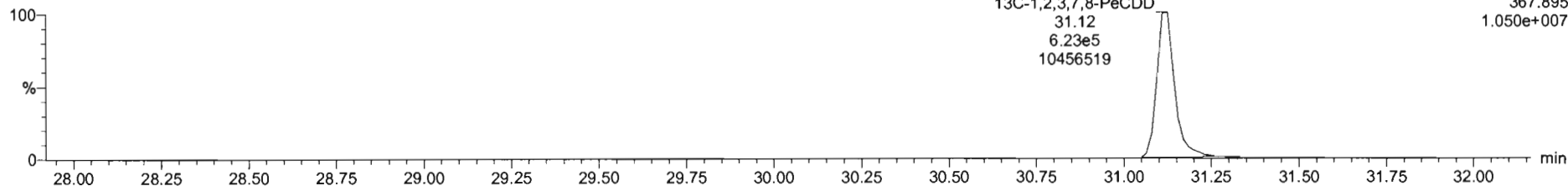


**13C-1,2,3,7,8-PeCDD**

200429R2\_2



200429R2\_2





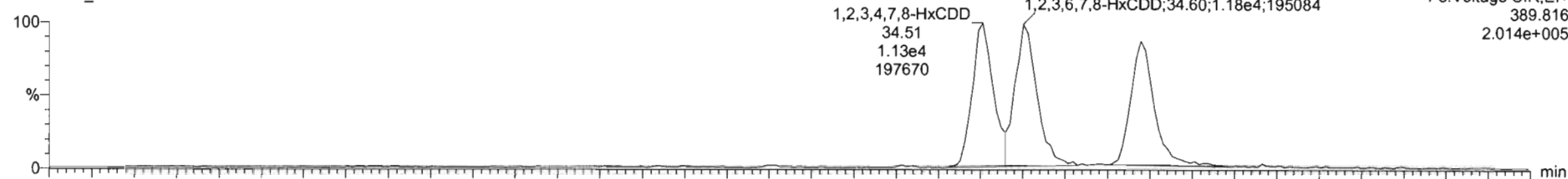
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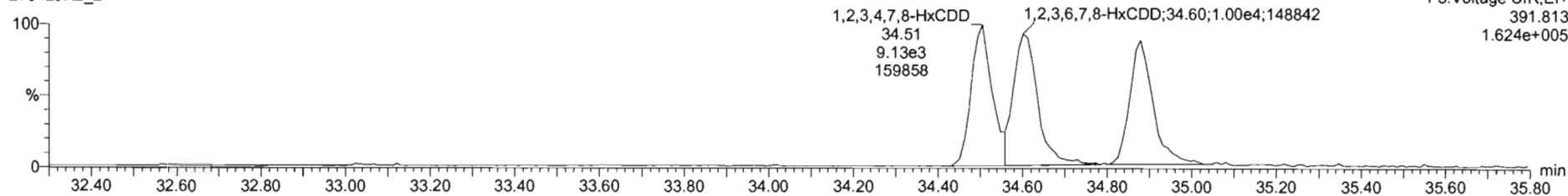
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**1,2,3,4,7,8-HxCDD**

200429R2\_2

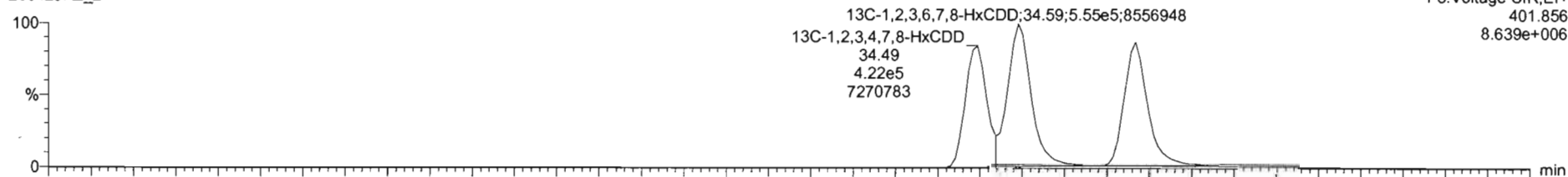


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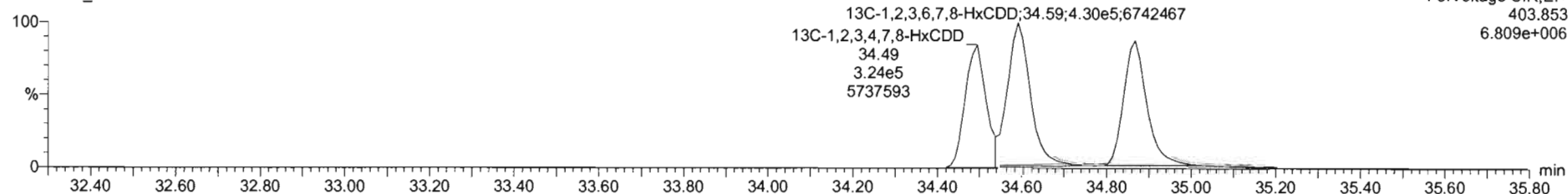


**13C-1,2,3,4,7,8-HxCDD**

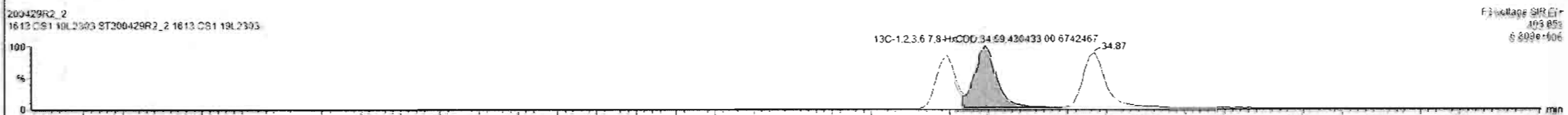
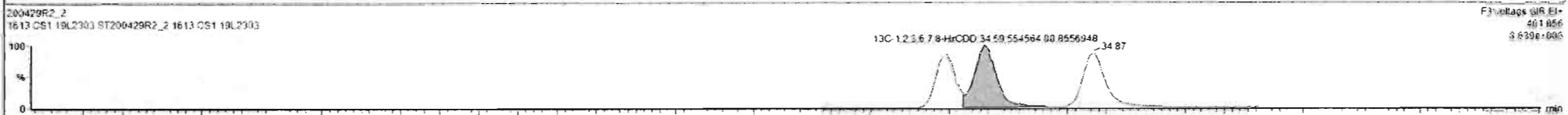
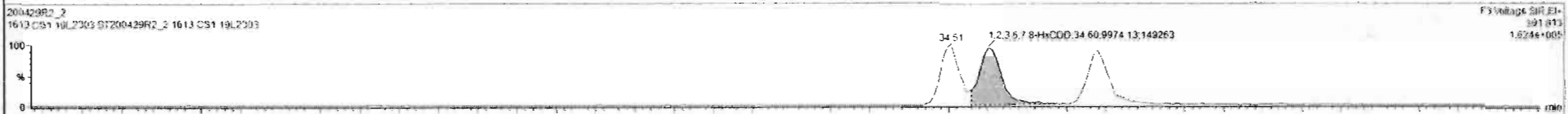
200429R2\_2



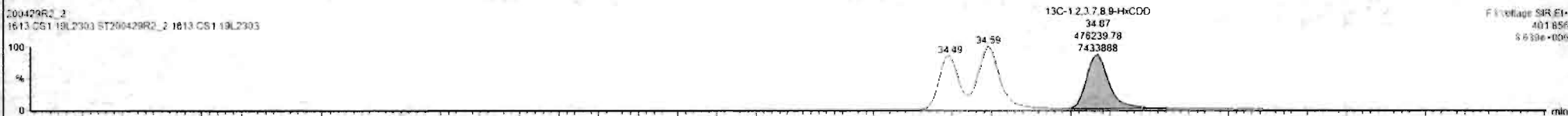
200429R2\_2



#	Name	RT	RA	yn	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.05	0.731	NO	6.8615e3	1.4940e6	0.500	-2.6	6.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.14	0.613	NO	2.4051e4	1.0247e6	2.500	-0.4	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4525e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.167	NO	2.1618e4	9.2599e5	2.500	-3.1	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.88	1.205	NO	1.9908e4	8.4560e5	2.500	1.9	7.64	0.915	0.0599
6	1,2,3,4,6,7,8-HpCDD	38.37	1.010	NO	1.4785e4	6.5992e5	2.500	-0.2	8.93	0.896	0.0622
7	OCDD	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.8	7.57	0.933	0.0707
8	2,2,7,8-TCDF	25.11	0.746	NO	8.7318e3	2.2158e6	0.500	0.1	5.11	0.787	0.0492
9	1,2,3,7,8-PeCDF	29.83	1.542	NO	3.6534e4	1.6915e6	2.500	0.1	5.66	0.910	0.0533
10	1,2,3,4,7,8-PeCDF	20.82	1.528	NO	3.8866e4	1.6151e6	2.500	-0.1	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.211	NO	2.2616e4	1.0213e6	2.500	0.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.187	NO	2.5479e4	1.1832e6	2.500	-1.4	7.23	0.674	0.0632
13	1,2,3,4,6,7,8-HxCDF	34.33	1.163	NO	2.3827e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.21	1.206	NO	1.8611e4	8.7735e5	2.500	-1.8	5.98	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7328e4	7.8418e5	2.500	1.5	7.54	0.671	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.954	NO	1.1991e4	4.9230e5	2.500	-3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.853	NO	2.7424e4	1.4010e6	5.000	-2.4	7.16	0.802	0.0575



#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.05	0.731	NO	6.8815e3	1.4840e0	0.500	-2.6	5.35	0.547	0.0507
2	1,2,3,7,8-PeCDD	31.14	0.613	NO	2.4051e4	1.0247e5	2.500	-0.4	5.51	0.942	0.0510
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4525e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.187	NO	2.1618e4	9.9500e5	2.500	-3.1	6.53	0.515	0.0597
5	1,2,3,7,8,9-HxCDD	34.82	1.225	NO	1.9028e4	8.4500e5	2.500	1.9	7.64	0.915	0.0599
6	1,2,3,4,6,7,8-HpCDD	38.37	1.010	NO	1.4785e4	6.5982e5	2.500	-0.2	6.93	0.856	0.0622
7	OCDD	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.8	7.57	0.923	0.0707
8	1,2,3,7,8-TCDF	25.11	0.746	NO	8.7318e3	2.2188e0	0.500	0.1	5.11	0.787	0.0402
9	1,2,3,7,8-PeCDF	29.82	1.542	NO	3.8824e4	1.6915e6	2.500	0.1	5.86	0.910	0.0523
10	2,3,4,7,8-PeCDF	20.82	1.528	NO	3.8866e4	1.6151e6	2.500	-0.1	4.90	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.211	NO	2.2618e4	1.0213e6	2.500	0.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.76	1.187	NO	2.5479e4	1.1832e6	2.500	-1.4	7.23	0.674	0.0632
13	2,3,4,6,7,8-HxCDF	24.33	1.163	NO	2.3827e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.21	1.205	NO	1.8511e4	8.7735e5	2.500	1.8	5.98	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7338e4	7.8418e5	2.500	1.5	7.54	0.671	0.0657
16	1,2,3,4,7,8,9-HpCDF	28.95	0.954	NO	1.1591e4	4.9230e5	2.500	-3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.853	NO	2.7424e4	1.4010e6	5.000	-2.4	7.16	0.802	0.0575



Custom Reporting: Select reports to generate

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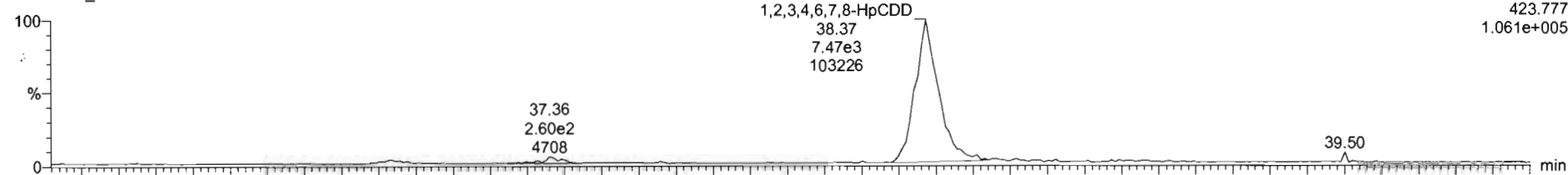
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

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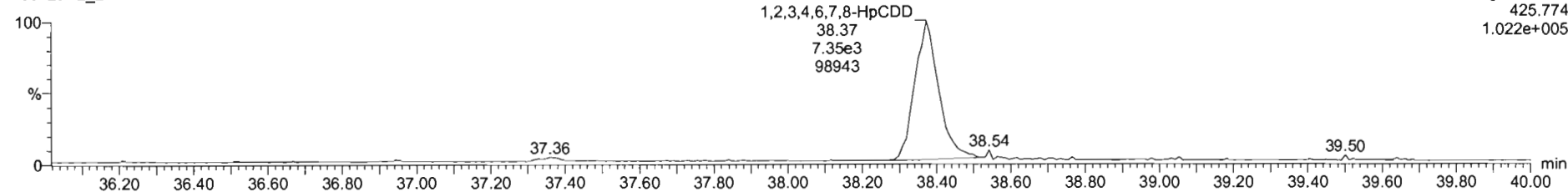
**1,2,3,4,6,7,8-HpCDD**

200429R2\_2



F4:Voltage SIR,EI+  
423.777  
1.061e+005

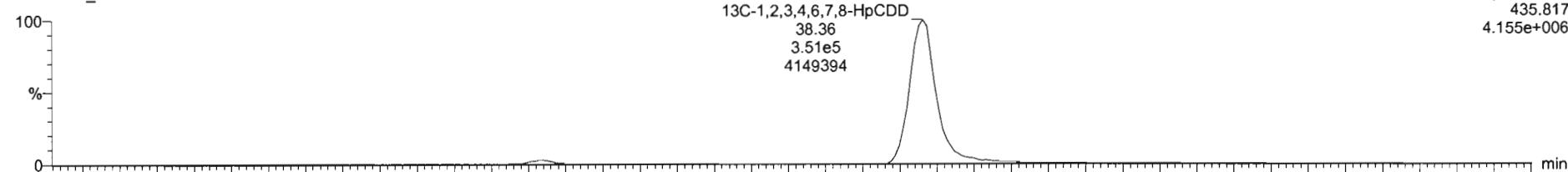
200429R2\_2



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425.774  
1.022e+005

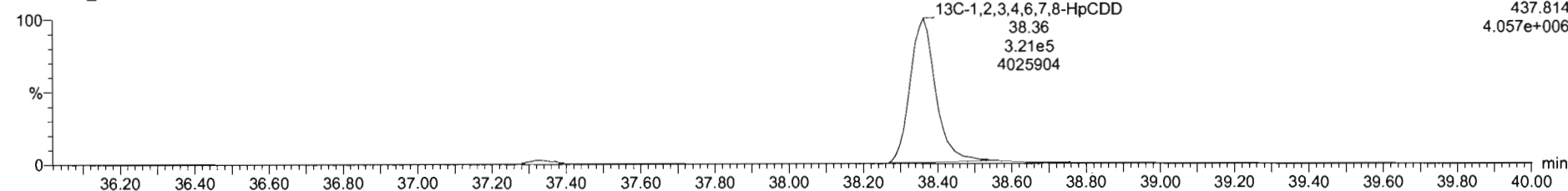
**13C-1,2,3,4,6,7,8-HpCDD**

200429R2\_2

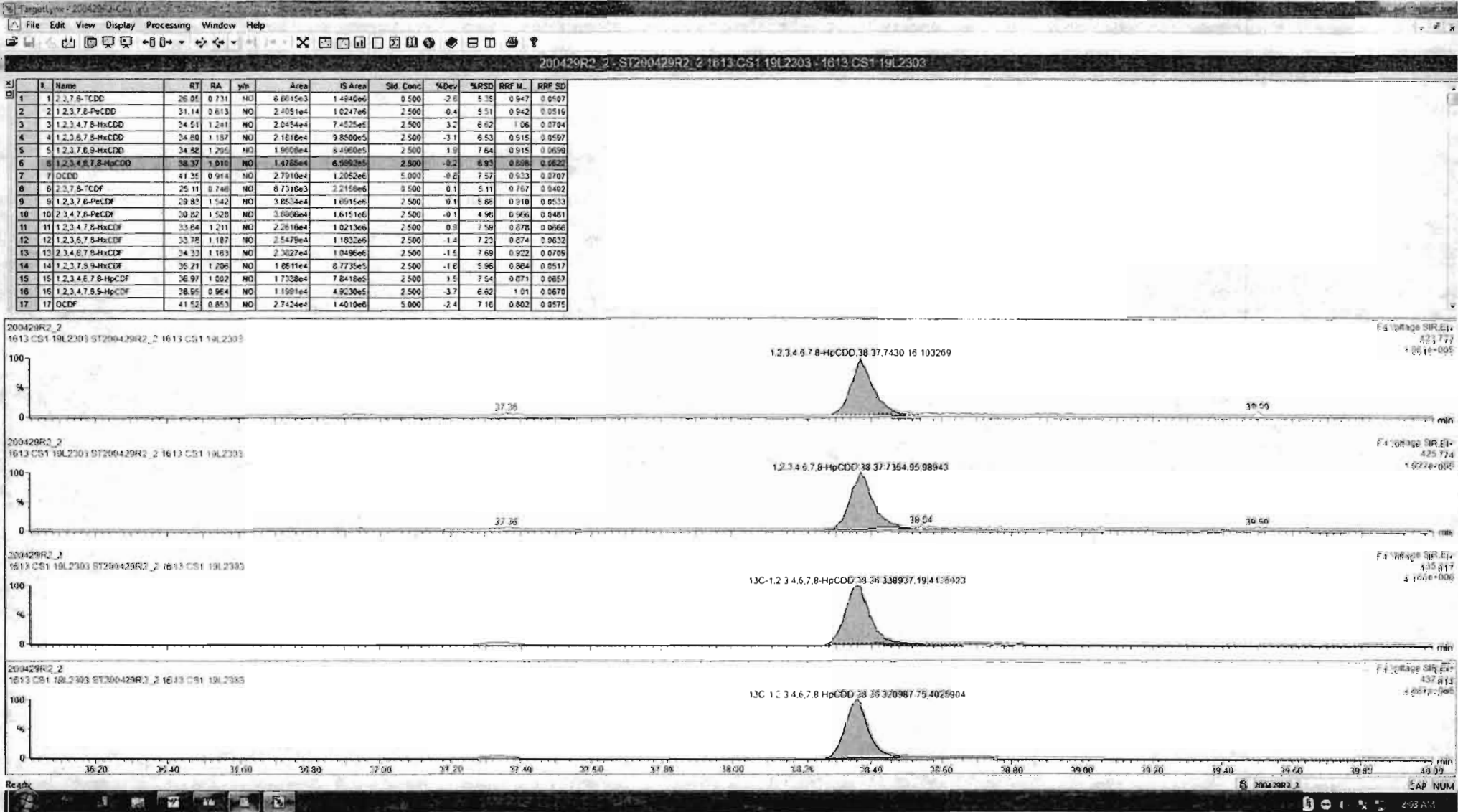


F4:Voltage SIR,EI+  
435.817  
4.155e+006

200429R2\_2



F4:Voltage SIR,EI+  
437.814  
4.057e+006



Dataset: Untitled

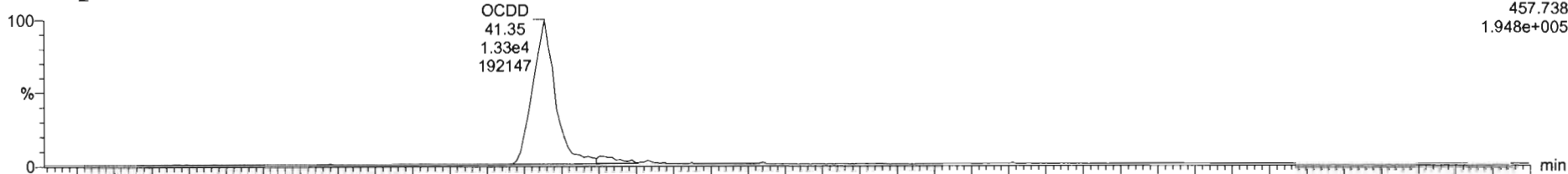
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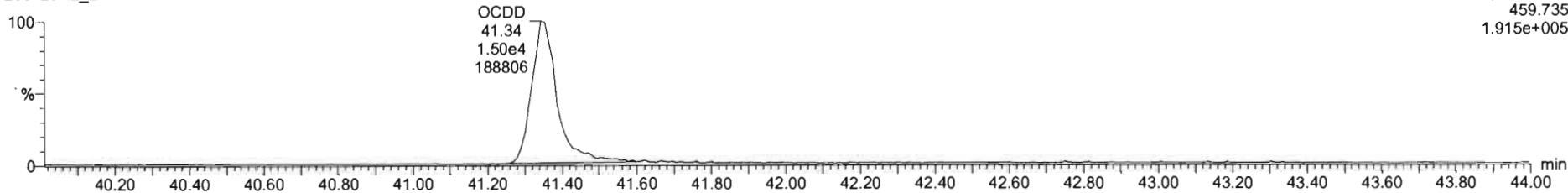
**OCDD**

200429R2\_2



F5: Voltage SIR, EI+  
457.738  
1.948e+005

200429R2\_2



F5: Voltage SIR, EI+  
459.735  
1.915e+005

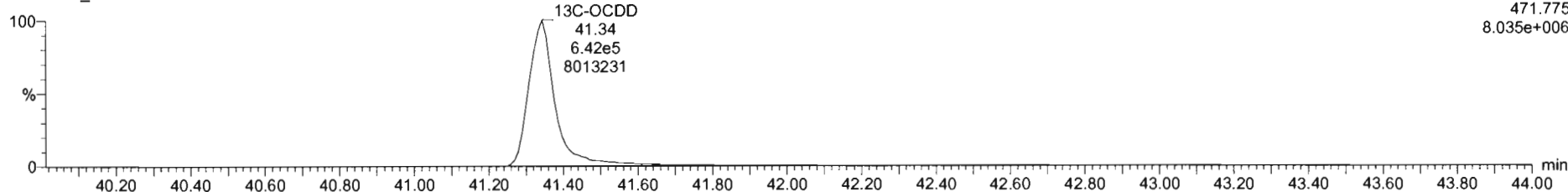
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200429R2\_2

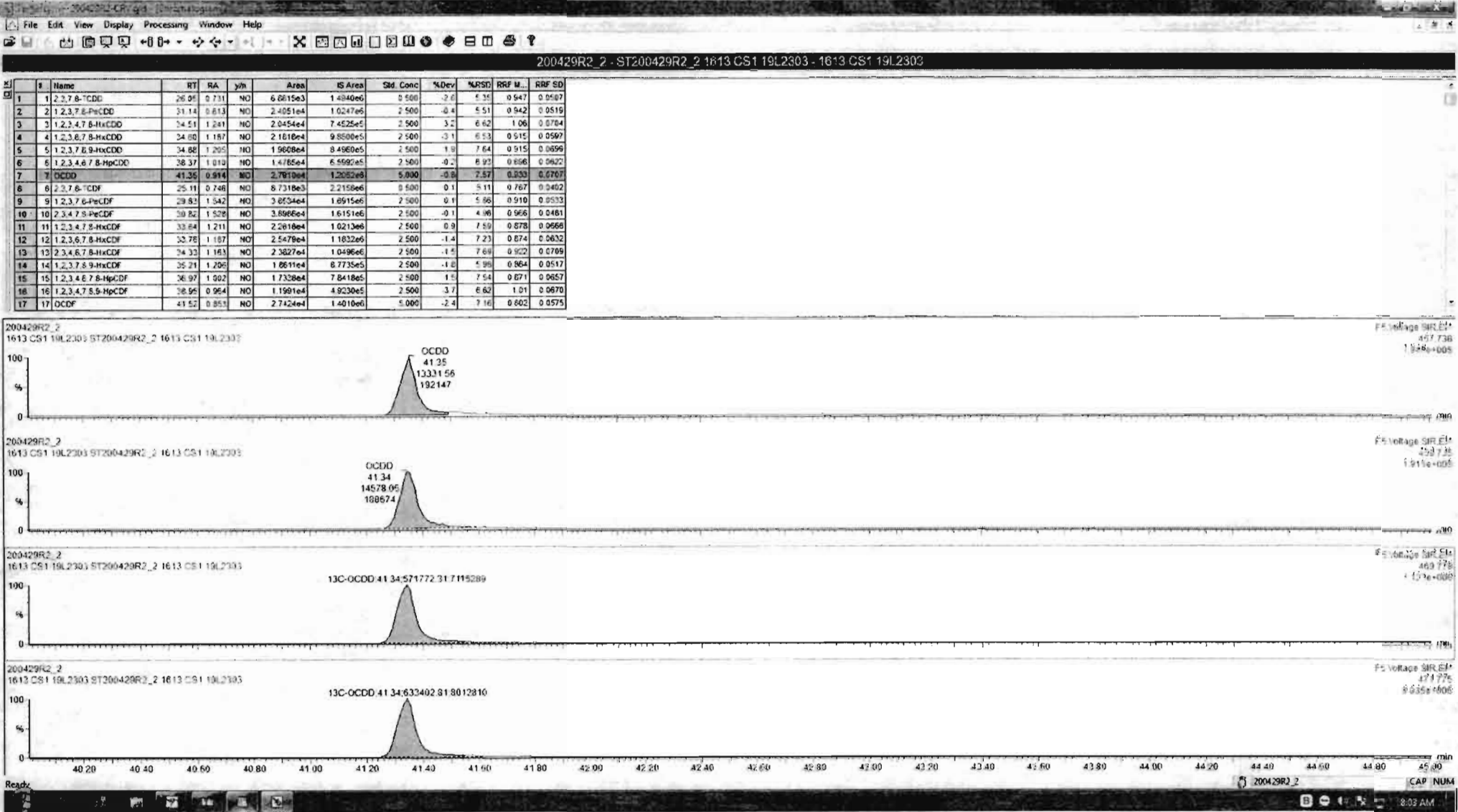


F5: Voltage SIR, EI+  
469.778  
7.123e+006

200429R2\_2



F5: Voltage SIR, EI+  
471.775  
8.035e+006



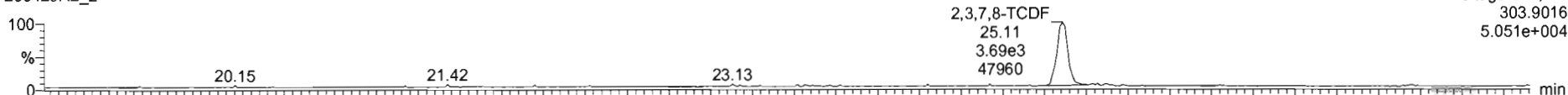
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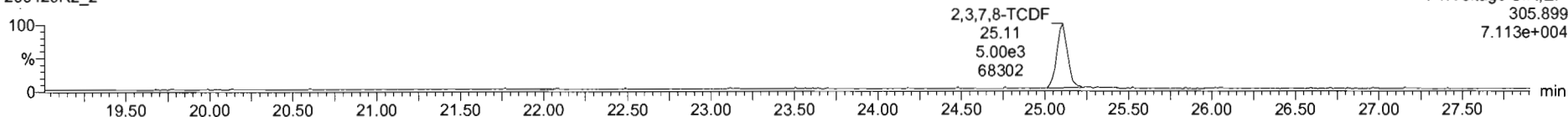
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**2,3,7,8-TCDF**

200429R2\_2

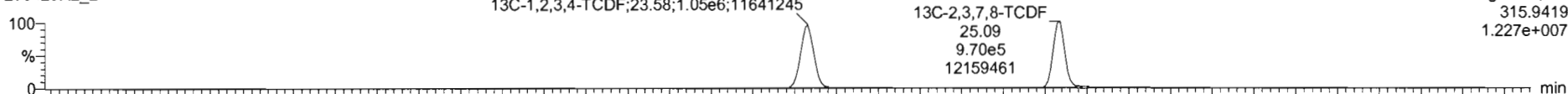


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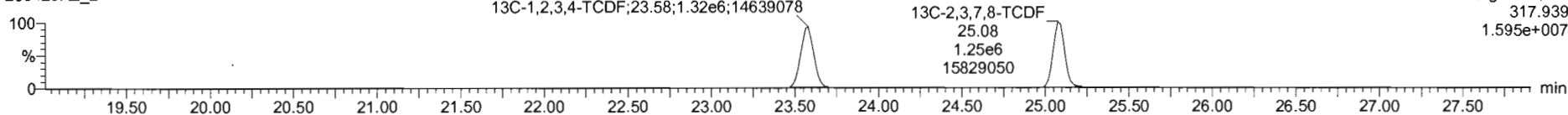


**13C-2,3,7,8-TCDF**

200429R2\_2

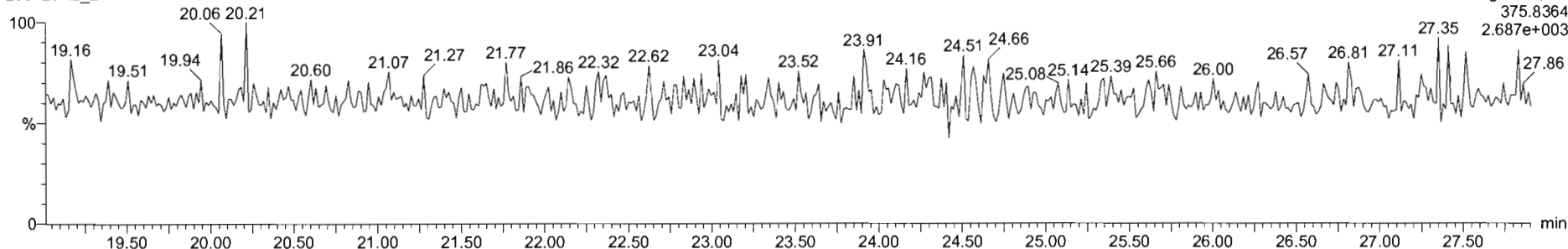


200429R2\_2



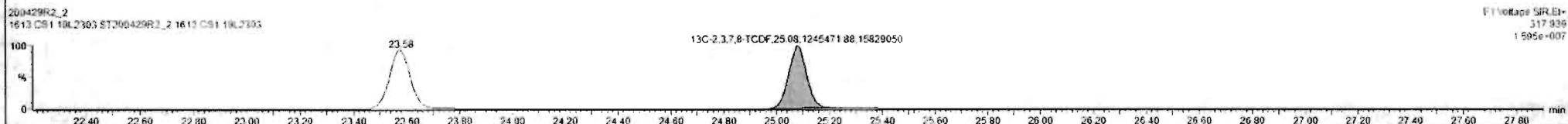
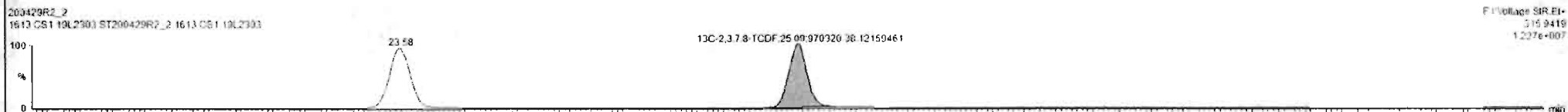
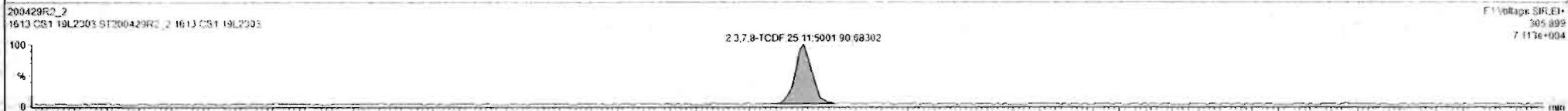
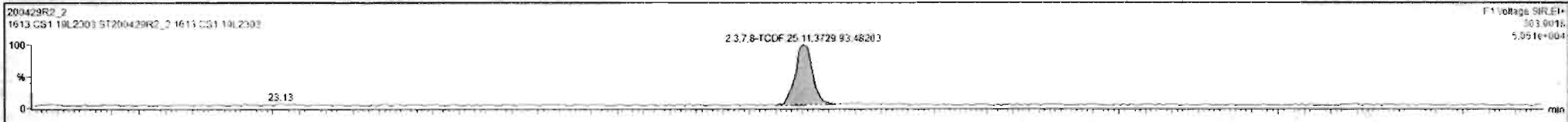
**DPE1**

200429R2\_2





#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M.	RRF SD
1	1,2,3,7,8-TCDD	25.05	0.731	NO	6.6615e3	1.4940e6	0.500	-2.6	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.14	0.613	NO	2.4051e4	1.0247e6	2.500	0.4	5.51	0.942	0.0515
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4525e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.80	1.187	NO	2.1618e4	9.5006e5	2.500	-3.1	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.98	1.205	NO	1.9808e4	8.4990e5	2.500	1.9	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	38.37	1.010	NO	1.4785e4	6.5990e5	2.500	-0.2	6.37	0.856	0.0632
7	OCDD	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.2	7.57	0.533	0.0707
8	2,3,7,8-TCDF	25.11	0.746	NO	8.7518e3	2.2158e6	0.500	0.1	5.11	0.787	0.0462
9	1,2,3,7,8-PeCDF	29.83	1.542	NO	3.6554e4	1.6915e6	2.500	0.1	5.86	0.910	0.0533
10	1,2,3,4,7,8-PeCDF	30.82	1.628	NO	3.8966e4	1.6151e6	2.500	-0.1	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.211	NO	2.2610e4	1.0213e6	2.500	0.9	7.19	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.187	NO	2.5479e4	1.1622e6	2.500	-1.4	7.23	0.874	0.0632
13	1,2,3,4,6,7,8-HxCDF	34.33	1.163	NO	2.3827e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.206	NO	1.8611e4	8.7735e5	2.500	-1.6	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	38.97	1.002	NO	1.7328e4	7.8418e5	2.500	1.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.954	NO	1.1991e4	4.9230e5	2.500	3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.853	NO	2.7424e4	1.4010e6	5.000	-2.4	7.16	0.802	0.0575



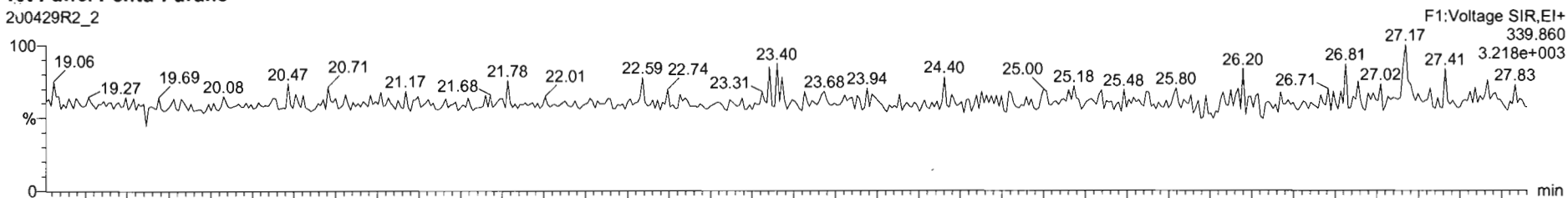
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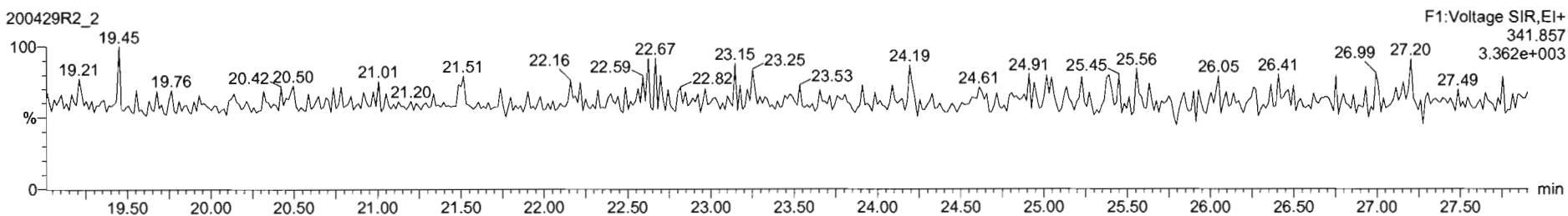
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1st Func. Penta-Furans

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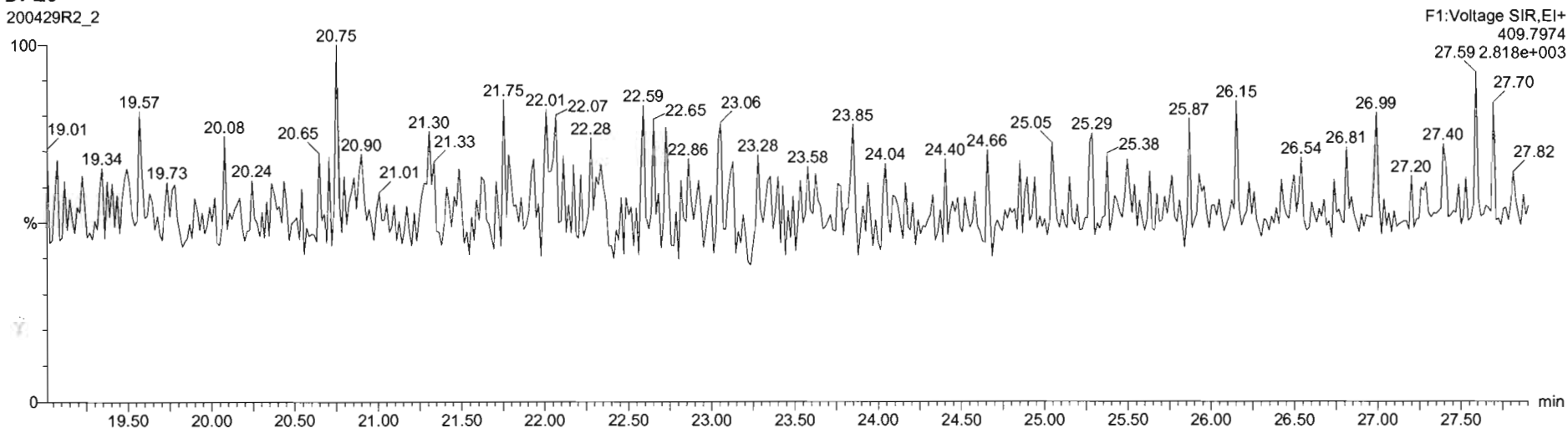


200429R2\_2



DPE6

200429R2\_2



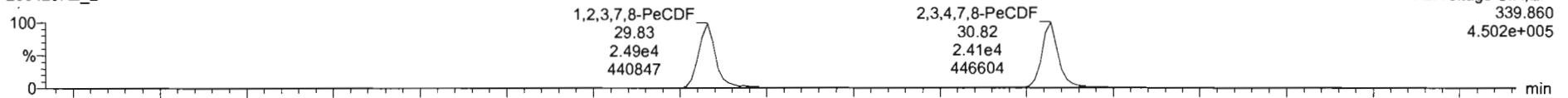
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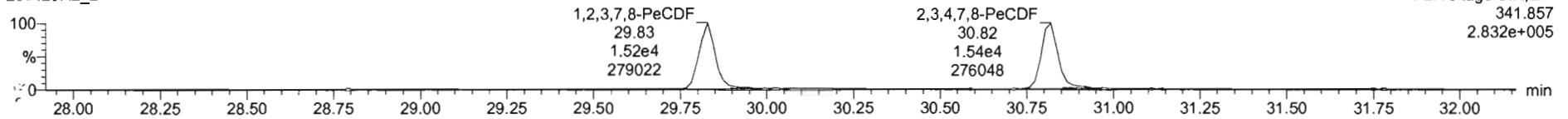
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**1,2,3,7,8-PeCDF**

200429R2\_2

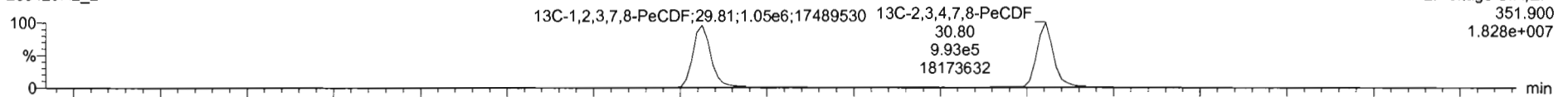


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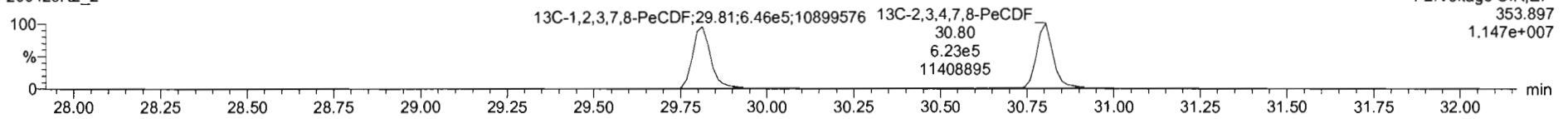


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200429R2\_2

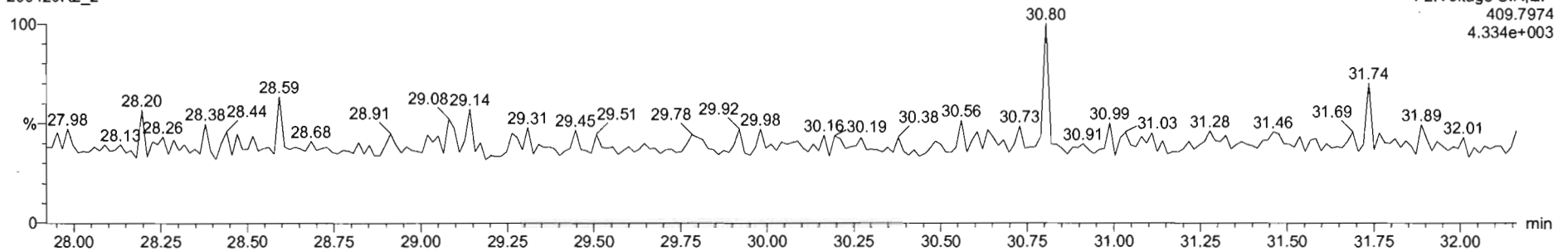


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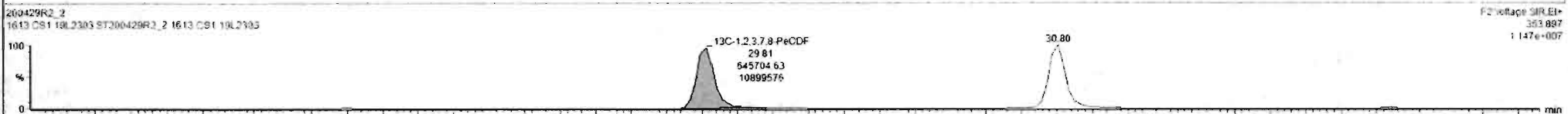
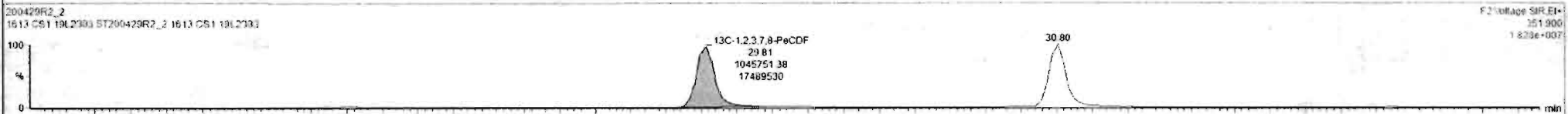
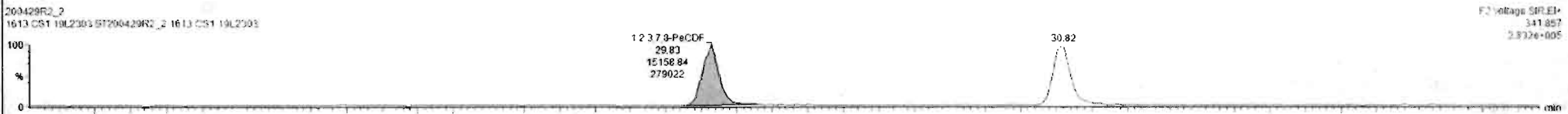
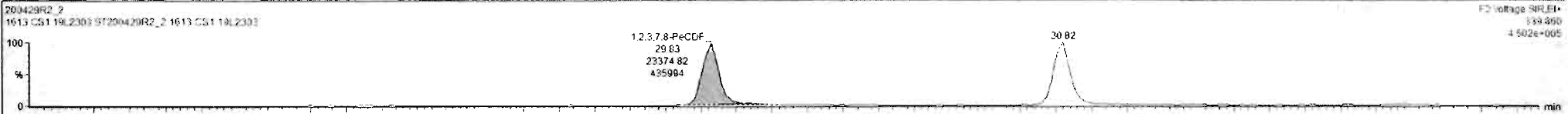


**DPE2**

200429R2\_2



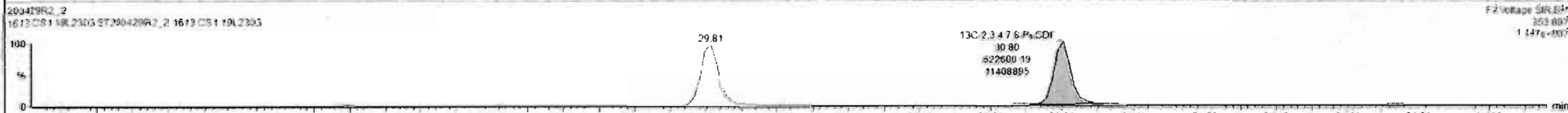
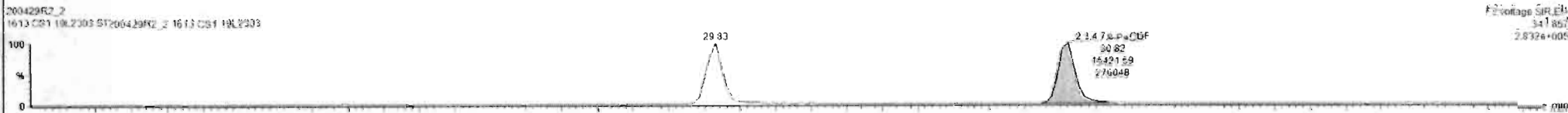
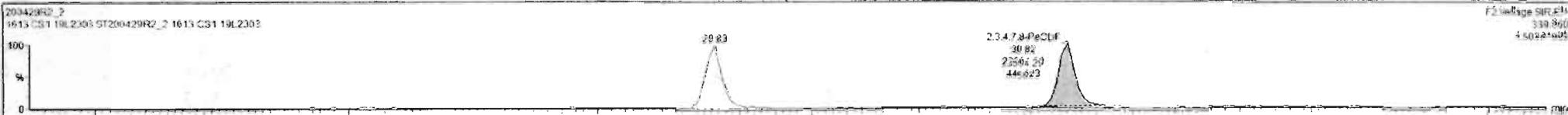
#	Name	RT	RA	ym	Area	IS Area	Std Conc	%Dev	%RSD	RRF M.	RRF SD
1	1,2,3,7,8-TCDD	28.95	0.731	NO	6.2615e3	1.4840e6	0.500	-2.8	5.37	0.947	0.0507
2	1,2,3,7,8-PeCDF	31.14	0.613	NO	2.4051e4	1.0247e6	2.500	0.4	5.51	0.942	0.0515
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4225e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,7,8,9-HxCDD	34.80	1.187	NO	2.1810e4	9.8500e5	2.500	-3.1	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDF	34.88	1.295	NO	1.9808e4	8.4960e5	2.500	1.9	7.64	0.915	0.0696
6	1,2,3,4,6,7,8-HpCDD	38.37	1.010	NO	1.4765e4	6.5992e5	2.500	-0.2	6.93	0.856	0.0620
7	OCDD	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.8	7.57	0.923	0.0707
8	1,2,3,7,8-TCDF	25.11	0.748	NO	8.7310e3	2.2158e6	0.500	0.1	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.83	1.542	NO	3.8534e4	1.6815e6	2.500	0.1	5.86	0.910	0.0533
10	1,2,3,4,7,8-PeCDF	30.82	1.328	NO	3.8066e4	1.6151e6	2.500	-0.1	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	32.84	1.211	NO	2.2616e4	1.0213e6	2.500	0.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	32.78	1.187	NO	2.5479e4	1.1632e6	2.500	-1.4	7.23	0.874	0.0632
13	1,2,3,4,6,7,8-HpCDF	34.33	1.183	NO	2.5827e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.205	NO	1.8511e4	8.7735e5	2.500	-1.0	6.98	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7338e4	7.8418e5	2.500	1.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.964	NO	1.1591e4	4.9230e5	2.500	-3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.853	NO	2.7424e4	1.4010e6	5.000	-2.4	7.16	0.862	0.0575



Custom Reporting: Select reports to generate

200429R2\_2 CAP NUM

#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.05	0.731	NO	6.6615e3	1.4940e5	0.500	-2.9	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.14	0.613	NO	2.4051e4	1.6247e5	2.500	0.4	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4525e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.187	NO	2.1618e4	9.8500e5	2.500	-3.1	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.88	1.295	NO	1.9808e4	8.4960e5	2.500	1.9	7.64	0.915	0.0696
6	1,2,3,4,6,7,8-HpCDD	38.37	1.010	NO	1.4785e4	6.5992e5	2.500	-0.1	6.93	0.856	0.0622
7	OCDD	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.2	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.11	0.746	NO	8.7318e3	2.2158e5	0.500	0.1	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.83	1.542	NO	3.6234e4	1.8615e5	2.500	0.1	5.66	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.82	1.528	NO	3.8808e4	1.8151e5	2.500	-0.1	4.86	0.966	0.0461
11	1,2,3,4,7,8-HxCDF	33.64	1.211	NO	2.2610e4	1.0213e6	2.500	0.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.187	NO	2.5479e4	1.1632e6	2.500	-1.4	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.163	NO	2.3827e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.21	1.206	NO	1.8511e4	8.7736e5	2.500	-1.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7328e4	7.8418e5	2.500	1.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.964	NO	1.1591e4	4.9236e5	2.500	-3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.853	NO	2.7424e4	1.4010e6	5.000	-2.4	7.16	0.802	0.0575

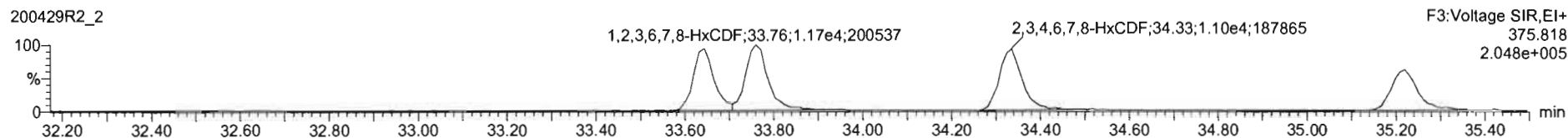
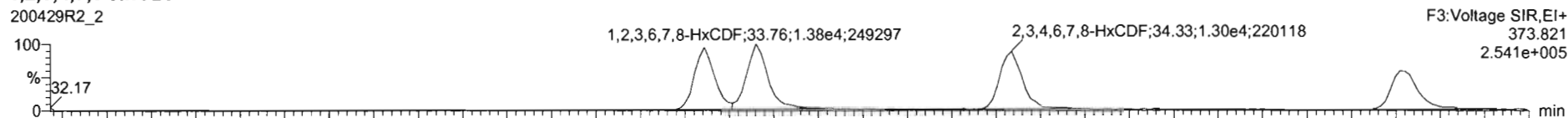


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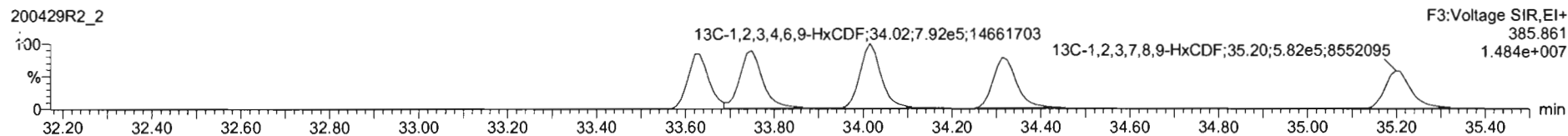
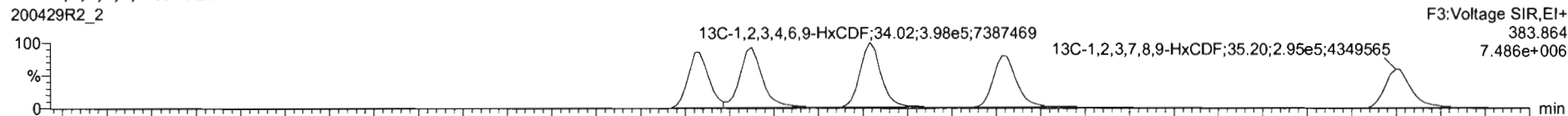
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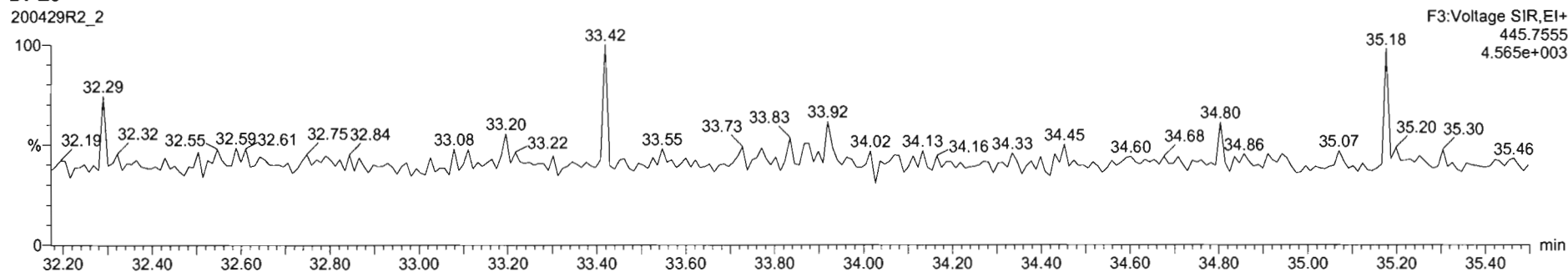
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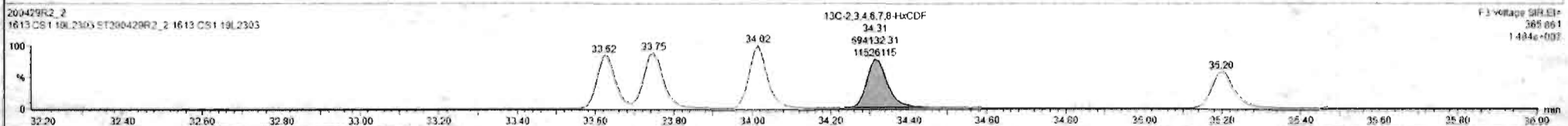
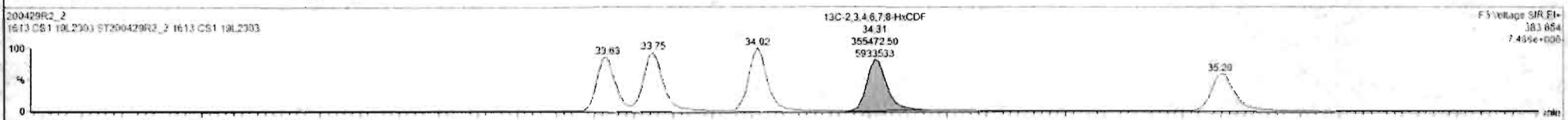
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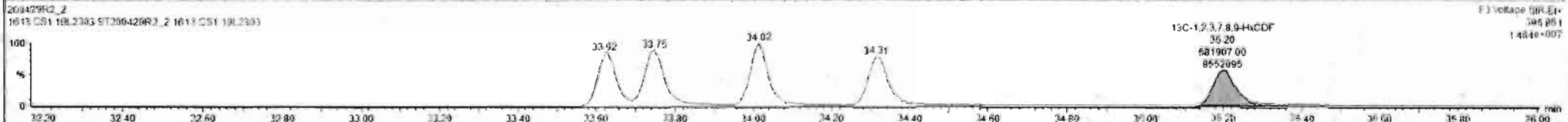
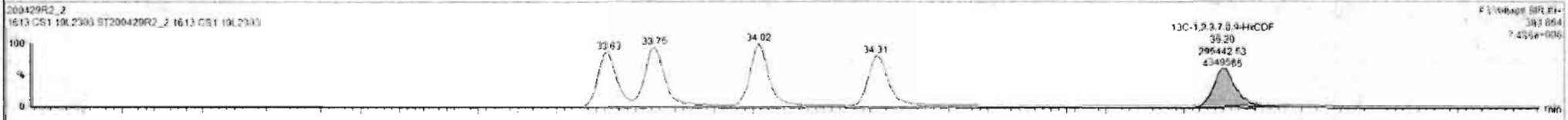
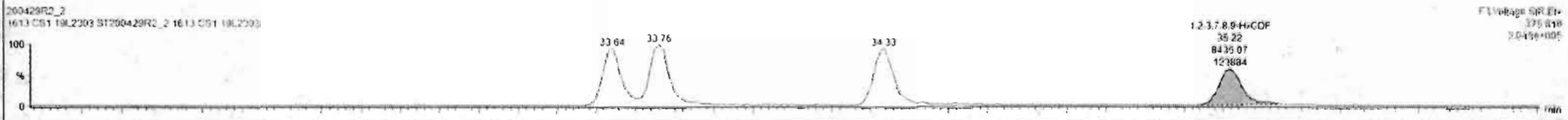
**DPE3**



#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M.	RRF SD
1	1,2,3,7,8-TCDF	26.95	0.731	NO	6.8615e3	1.4840e6	0.500	-2.6	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDF	31.14	0.613	NO	2.4051e4	1.0247e5	2.500	0.4	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4525e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.80	1.187	NO	2.1618e4	9.8000e5	2.500	-2.1	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.80	1.205	NO	1.9608e4	8.4960e5	2.500	1.9	7.64	0.915	0.0698
6	1,2,3,4,6,7,8-HpCDD	36.37	1.010	NO	1.4765e4	6.5992e5	2.500	-0.2	6.93	0.858	0.0622
7	OCDF	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.8	7.57	0.923	0.0707
8	2,3,7,8-TCDF	25.11	0.746	NO	6.7316e3	2.2158e6	0.500	0.1	5.11	0.767	0.0403
9	1,2,3,7,8-PeCDF	29.83	1.542	NO	3.6934e4	1.6915e6	2.500	0.1	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.82	1.528	NO	3.8966e4	1.6151e6	2.500	-0.1	4.98	0.966	0.0461
11	1,2,3,4,7,8-HxCDF	33.84	1.211	NO	2.2810e4	1.0213e6	2.500	0.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.187	NO	2.5479e4	1.1632e6	2.500	-1.4	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.163	NO	2.3827e4	1.0490e6	2.500	-1.5	7.69	0.822	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.206	NO	1.9611e4	8.7735e5	2.500	-1.6	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7328e4	7.6418e5	2.500	1.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.954	NO	1.1991e4	4.9230e5	2.500	3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.853	NO	2.7424e4	1.4010e6	5.000	-2.4	7.16	0.802	0.0575



#	Name	RT	RA	ym	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M.	RRF SD
1	1,2,3,7,8-TCDD	26.05	0.731	NO	6.8615e3	1.4540e6	0.500	-2.0	6.35	0.547	0.0507
2	1,2,3,7,8-PeCDD	31.14	0.613	NO	2.4051e4	1.0247e6	2.500	-0.4	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.9454e4	7.4525e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.00	1.157	NO	2.1618e4	9.8500e5	2.500	-3.1	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.82	1.205	NO	1.9608e4	3.4560e5	2.500	1.0	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	36.37	1.019	NO	1.4765e4	6.5992e5	2.500	-0.2	6.93	0.896	0.0622
7	OCDD	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.0	7.57	0.923	0.0707
8	1,2,3,7,8-TCDF	25.11	0.748	NO	8.7310e3	2.2158e6	0.500	0.1	5.11	0.757	0.0462
9	1,2,3,7,8-PeCDF	29.83	1.542	NO	3.8534e4	1.6915e6	2.500	0.1	5.06	0.910	0.0533
10	1,2,3,4,7,8-PeCDF	29.82	1.528	NO	3.8666e4	1.6151e6	2.500	-0.1	4.90	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.211	NO	2.2616e4	1.0213e6	2.500	0.0	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.187	NO	2.5479e4	1.1032e6	2.500	-1.4	7.23	0.874	0.0632
13	1,2,3,4,6,7,8-HpCDF	34.33	1.163	NO	2.3827e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.206	NO	1.8071e4	8.7735e5	2.500	-1.0	5.96	0.804	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7328e4	7.6418e5	2.500	1.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.964	NO	1.1991e4	4.9230e5	2.500	-3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.853	NO	2.7424e4	1.4010e6	5.000	-2.4	7.16	0.802	0.0575





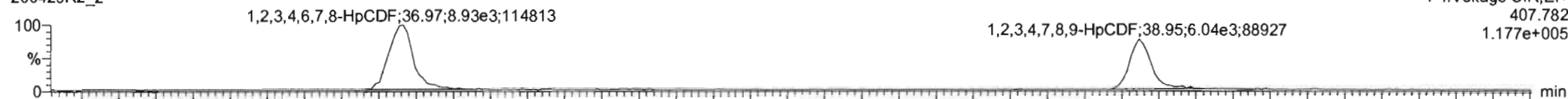
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

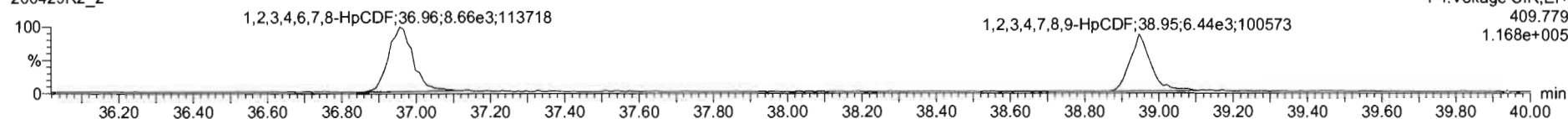
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**1,2,3,4,6,7,8-HpCDF**

200429R2\_2

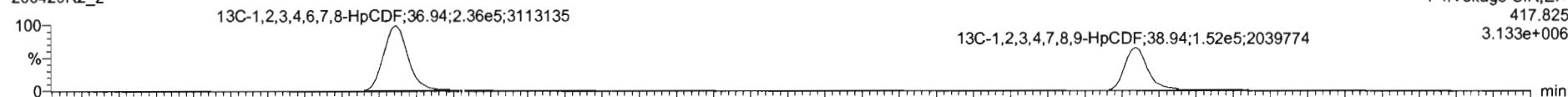


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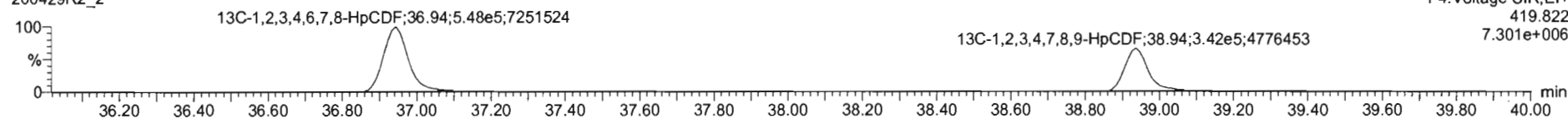


**13C-1,2,3,4,6,7,8-HpCDF**

200429R2\_2

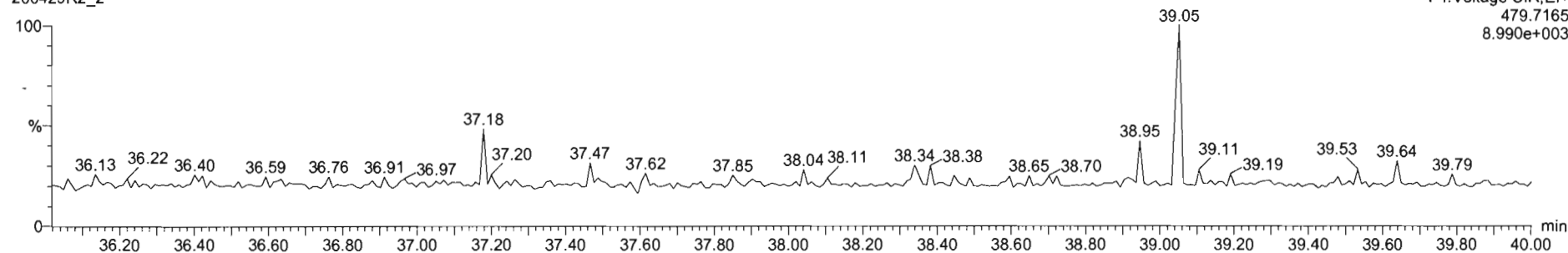


200429R2\_2

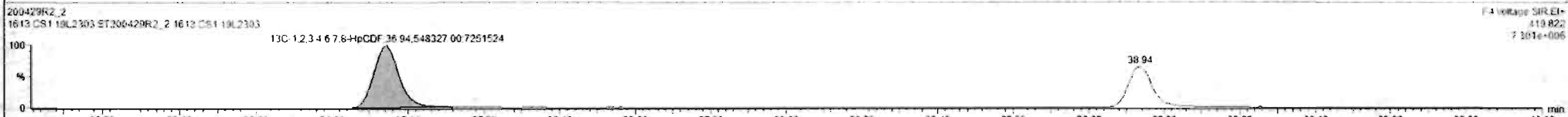
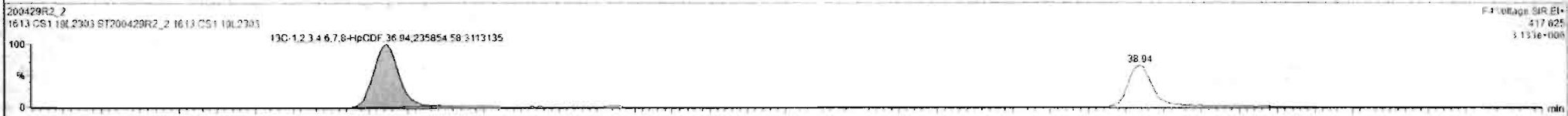
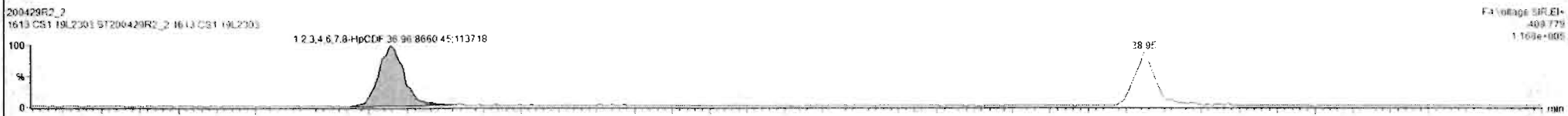


**DPE4**

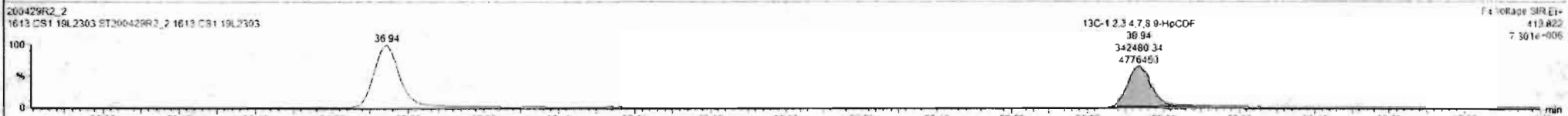
200429R2\_2



#	Name	RT	RA	y/n	Area	IS Area	Std. Conc	%Dev	MRSD	RRF U	RRF SD
1	1,2,3,7,8-TCDF	26.95	0.731	NO	6.2615e3	1.4840e6	0.500	-2.6	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDF	31.14	0.613	NO	2.4051e4	1.0247e6	2.500	-0.4	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.8454e4	7.4525e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.157	NO	2.1618e4	9.8600e5	2.500	-3.1	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.92	1.205	NO	1.5608e4	8.4960e5	2.500	1.5	7.64	0.915	0.0698
6	1,2,3,4,6,7,8-HpCDD	36.37	1.010	NO	1.4785e4	6.5992e5	2.500	-0.2	6.93	0.858	0.0632
7	OCDD	41.35	0.954	NO	2.7910e4	1.2052e6	0.000	-0.8	7.57	0.933	0.0707
8	1,2,3,7,8-TCDF	25.11	0.746	NO	8.7316e3	2.2158e6	0.500	0.1	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.83	1.542	NO	3.0534e4	1.0915e6	2.500	0.1	5.66	0.910	0.0533
10	1,2,3,4,7,8-PeCDF	30.82	1.628	NO	3.8686e4	1.6151e6	2.500	-0.1	4.96	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.211	NO	2.2616e4	1.0213e6	2.500	0.9	7.59	0.878	0.0566
12	1,2,3,6,7,8-HxCDF	32.78	1.187	NO	2.5479e4	1.1822e6	2.500	-1.4	7.21	0.874	0.0632
13	1,2,3,4,6,7,8-HxCDF	34.33	1.163	NO	2.3827e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.205	NO	1.8511e4	8.7735e5	2.500	-1.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.91	1.022	NO	1.7138e4	7.8413e5	2.500	1.5	7.54	0.871	0.0552
16	1,2,3,4,7,8,9-HpCDF	38.95	0.954	NO	1.1591e4	4.9236e5	2.500	3.7	6.82	1.01	0.0670
17	OCDF	41.52	0.853	NO	2.7424e4	1.4010e6	5.060	-2.4	7.16	0.862	0.0575



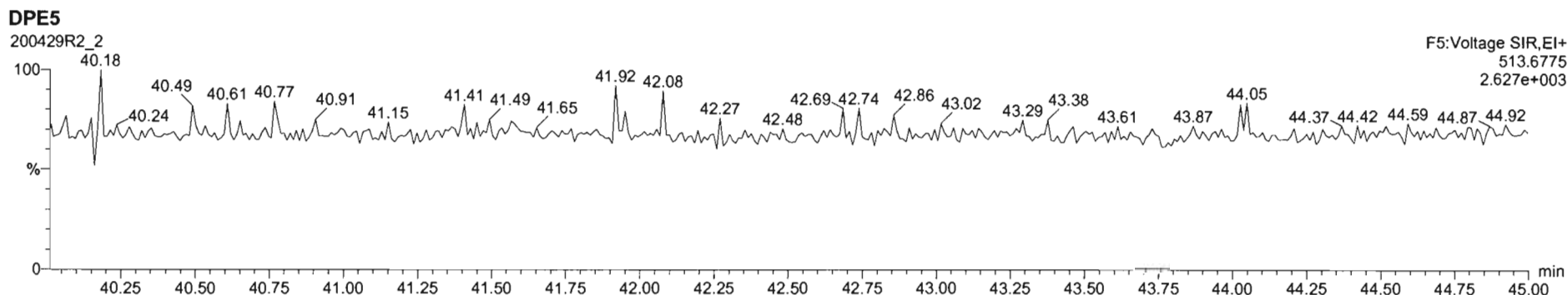
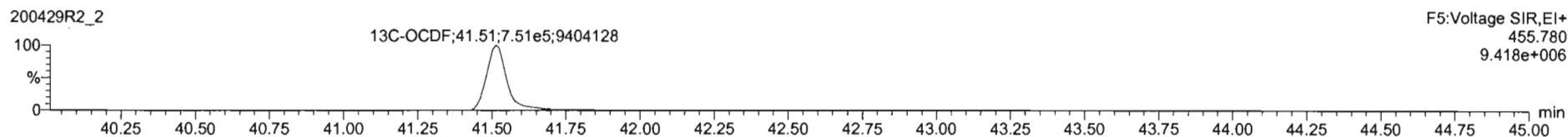
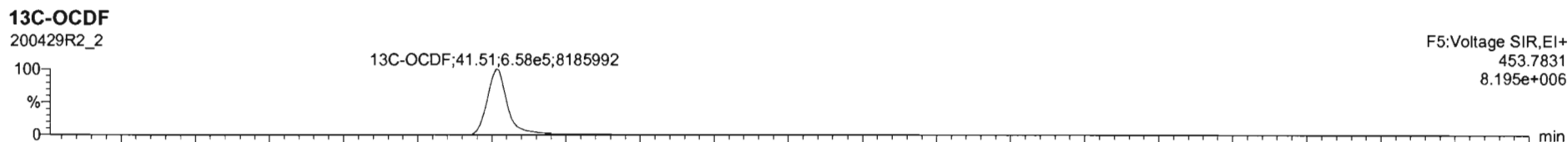
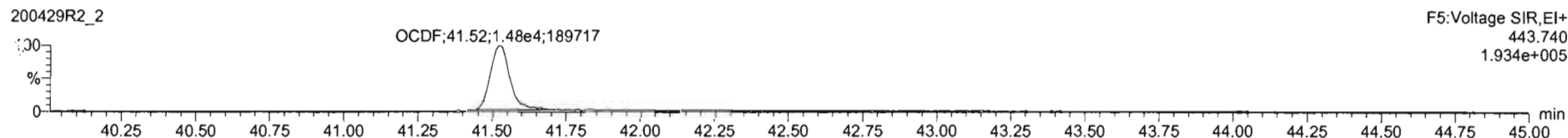
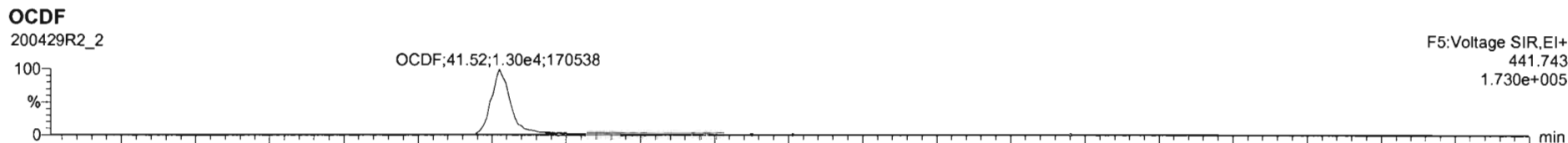
#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M.	RRF SD
1	1,2,3,7,8-TCDD	26.95	0.731	NO	6.8615e3	1.4940e6	0.500	-2.8	5.35	0.947	0.0107
2	1,2,3,7,8-PeCDD	31.14	0.613	NO	2.4051e4	1.0247e6	2.500	-0.4	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4525e5	2.500	3.2	6.42	1.06	0.0764
4	1,2,3,6,7,8-HxCDD	34.89	1.187	NO	2.1818e4	9.8500e5	2.500	-3.1	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.82	1.295	NO	1.9688e4	3.4960e5	2.500	1.6	7.84	0.915	0.0696
6	1,2,3,4,6,7,8-HpCDD	36.37	1.010	NO	1.4785e4	6.5990e5	2.500	-0.2	6.93	0.658	0.0622
7	OCDD	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.2	7.57	0.933	0.0707
8	2,3,7,8-TCDF	29.11	0.748	NO	8.7318e3	2.2158e6	0.500	0.1	5.11	0.757	0.0462
9	1,2,3,7,8-PeCDF	29.43	1.542	NO	3.6534e4	1.6915e6	2.500	0.1	5.62	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.82	1.528	NO	3.8986e4	1.6151e6	2.500	-0.1	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.211	NO	2.2818e4	1.0213e6	2.500	0.9	7.59	0.878	0.0668
12	1,2,3,6,7,8-HxCDF	33.78	1.187	NO	2.5479e4	1.1832e6	2.500	-1.4	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.163	NO	2.3827e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.206	NO	1.8611e4	8.7735e5	2.500	-1.6	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7338e4	7.6418e5	2.500	1.5	7.54	0.871	0.0617
16	1,2,3,4,7,8,9-HpCDF	38.95	0.984	NO	1.1991e4	4.9238e5	2.500	-3.7	6.82	1.01	0.0679
17	OCDF	41.52	0.853	NO	2.7424e4	1.4010e6	5.000	-2.4	7.16	0.662	0.0575



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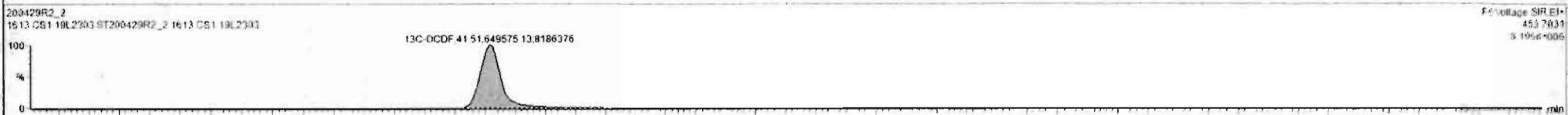
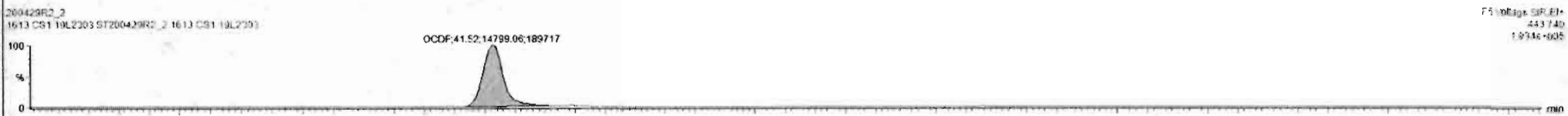
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2\_2, Date: 29-Apr-2020, Time: 14:15:04, ID: ST200429R2\_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303



200429R2\_2 - ST200429R2\_2 - 1613 CS1 19L2303 - 1613 CS1 19L2303

#	Name	RT	RA	y/n	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	2,3,7,8-TCDD	26.05	0.731	NO	6.8615e3	1.4840e6	0.500	-2.6	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.14	0.613	NO	2.4051e4	1.0247e6	2.500	-0.4	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4525e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.197	NO	2.1618e4	9.8500e5	2.500	-3.1	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.88	1.205	NO	1.9808e4	8.4960e5	2.500	1.9	7.64	0.915	0.0696
6	1,2,3,4,6,7,8-HpCDD	38.37	1.010	NO	1.4765e4	6.5992e5	2.500	-0.2	6.93	0.696	0.0622
7	OCDD	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.2	7.57	0.633	0.0767
8	2,3,7,8-TCDF	25.11	0.746	NO	8.7310e3	2.2156e6	0.500	0.1	5.11	0.787	0.0462
9	1,2,3,7,8-PeCDF	29.83	1.542	NO	3.8754e4	1.6915e6	2.500	0.1	5.66	0.910	0.0533
10	1,2,3,4,7,8-HxCDF	30.82	1.528	NO	3.8996e4	1.6151e6	2.500	-0.1	4.95	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.211	NO	2.2618e4	1.0213e6	2.500	0.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.197	NO	2.5479e4	1.1832e6	2.500	-1.4	7.23	0.874	0.0632
13	1,2,3,4,6,7,8-HpCDF	34.33	1.163	NO	2.3227e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.205	NO	1.8611e4	8.7735e5	2.500	-1.6	5.98	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7328e4	7.8418e5	2.500	1.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.55	0.954	NO	1.1591e4	4.9230e5	2.500	-3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.883	NO	2.7424e4	1.4010e6	5.000	-2.4	7.18	0.802	0.0573

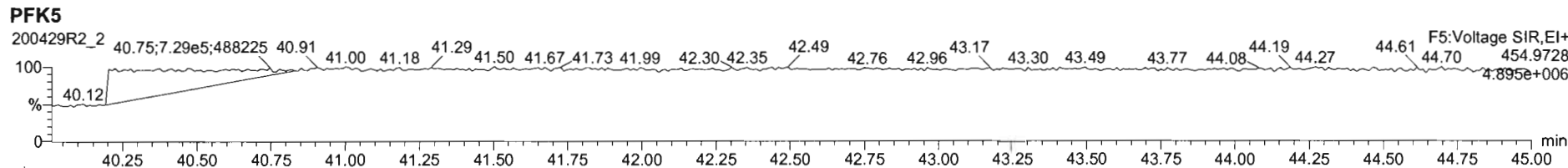
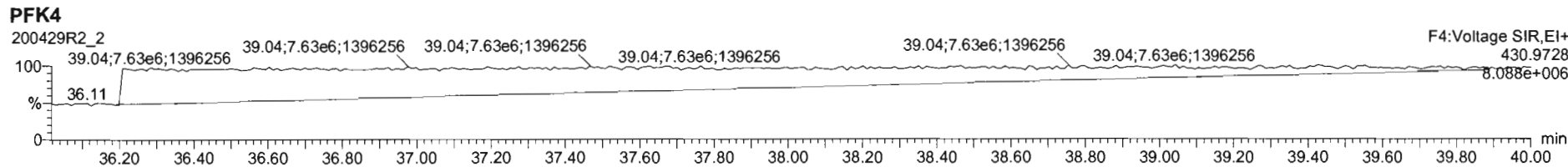
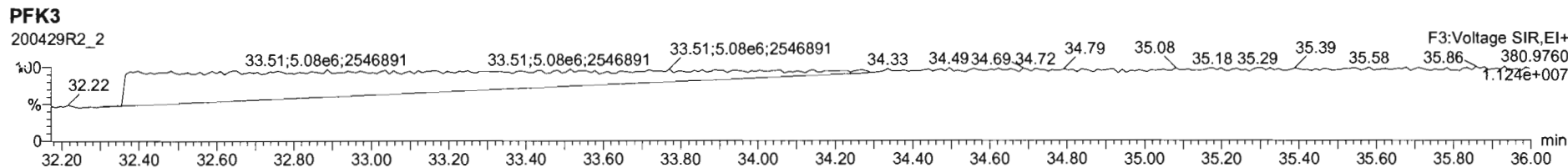
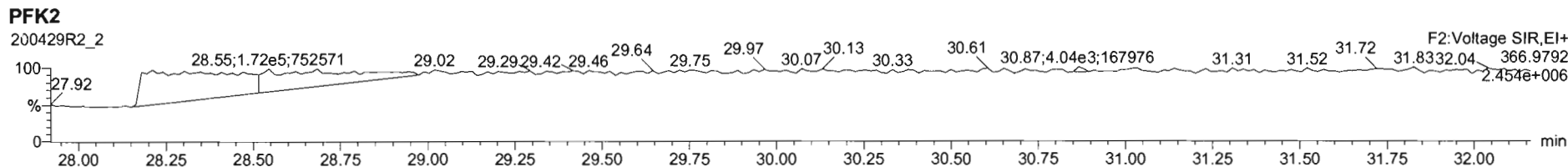
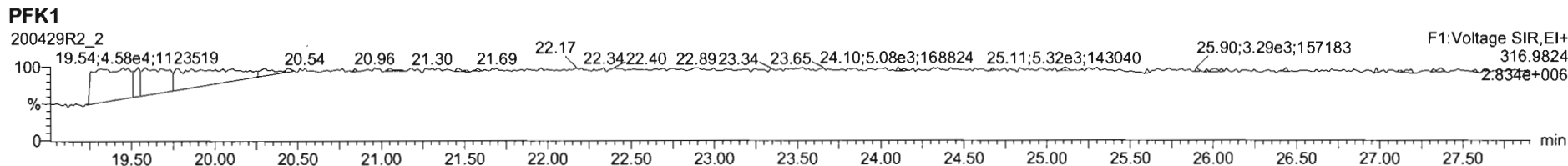


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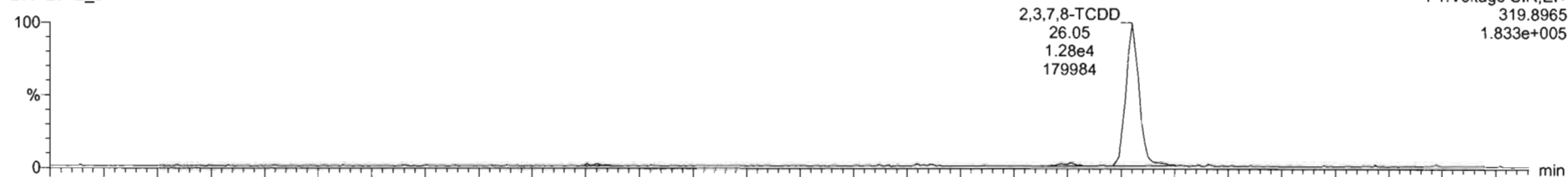
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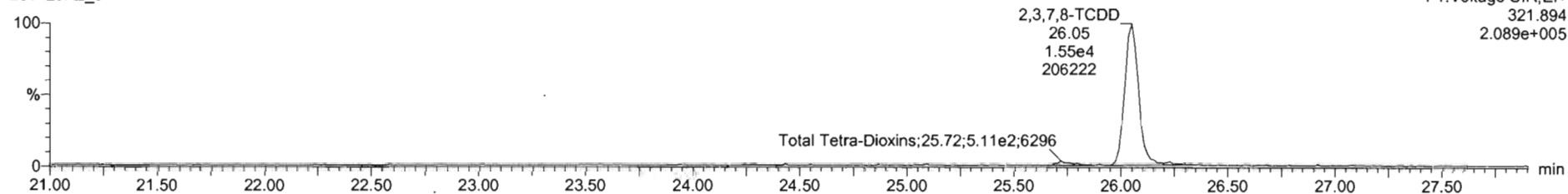
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**2,3,7,8-TCDD**

200429R2\_3

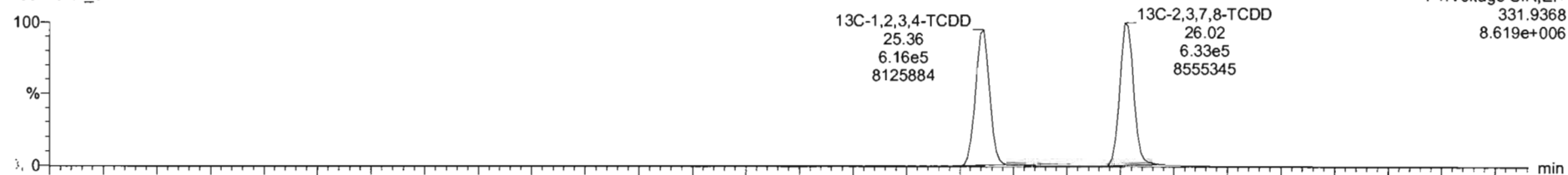


200429R2\_3

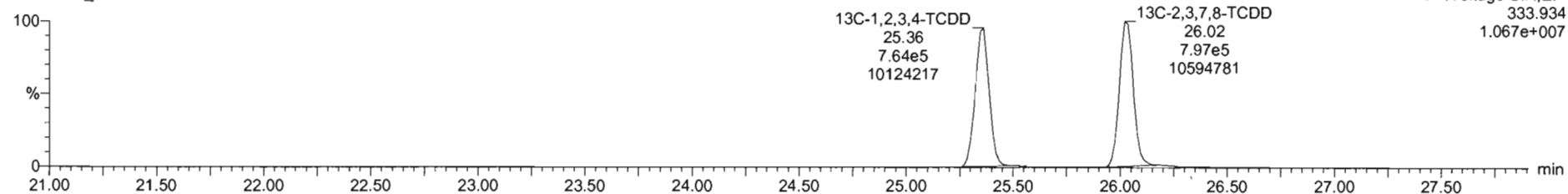


**13C-2,3,7,8-TCDD**

200429R2\_3

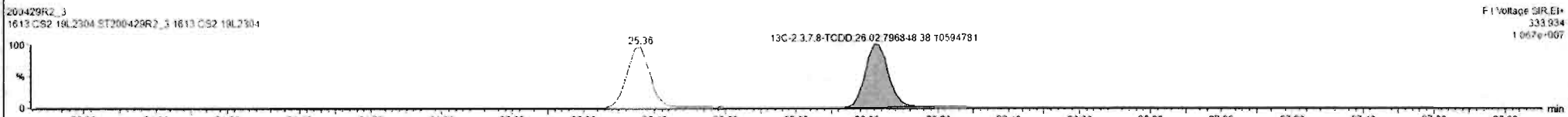
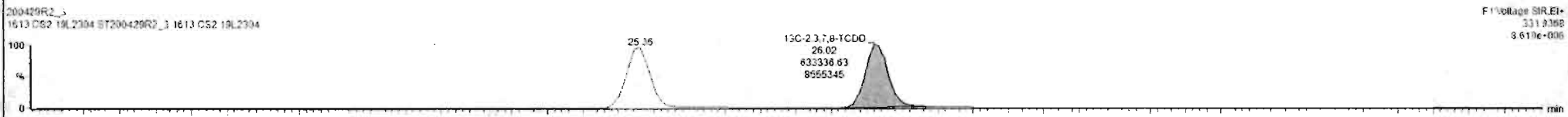
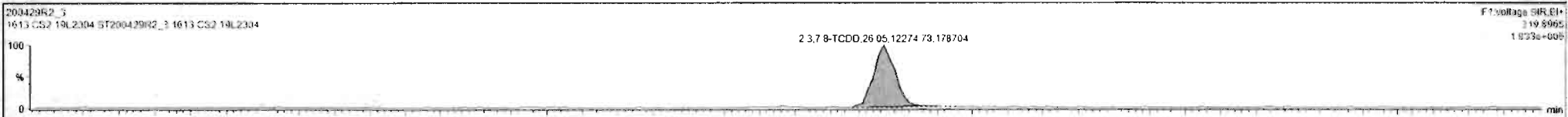


200429R2\_3



200429R2\_3 - ST200429R2\_3 1613 CS2 19L2304 1613 CS2 19L2304

#	Name	RT	RA	y/n	Area	IS Area	Std Conc	%Dev	%RSD	RRF M.	RRF SD
1	2,3,7,8-TCDD	26.05	0.797	NO	2.7677e4	1.4302e6	2.900	2.1	5.35	0.947	0.0567
2	1,2,3,7,8-PeCDD	21.13	0.621	NO	9.9912e4	9.9250e5	10.000	6.8	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	24.49	1.246	NO	8.2429e4	7.5171e5	10.000	3.1	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	24.80	1.257	NO	9.4154e4	9.4942e5	10.000	8.4	6.53	0.515	0.0597
5	1,2,3,7,8,9-HxCDD	24.80	1.244	NO	8.1064e4	8.0356e5	10.000	6.3	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	26.36	1.081	NO	5.9094e4	6.3852e5	10.000	3.1	8.93	0.856	0.0632
7	OCDD	41.24	0.883	NO	1.0629e5	1.0963e6	20.000	5.8	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.11	0.737	NO	3.4210e4	2.0671e6	2.900	4.1	5.11	0.757	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.567	NO	1.5997e5	1.6425e6	10.000	7.0	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.595	NO	1.6102e5	1.6556e6	10.000	6.4	4.95	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.83	1.217	NO	9.5102e4	1.0175e6	10.000	6.4	7.59	0.878	0.0686
12	1,2,3,6,7,8-HxCDF	33.78	1.209	NO	1.0898e5	1.1386e6	10.000	9.5	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.217	NO	1.0168e5	1.0301e6	10.000	7.1	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.223	NO	7.7026e4	8.5676e5	10.000	4.9	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.95	0.958	NO	6.9491e4	7.6914e5	10.000	3.7	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	1.014	NO	4.9417e4	4.7128e5	10.000	3.5	6.62	1.01	0.0670
17	OCDF	41.52	0.877	NO	1.6707e5	1.2711e6	20.000	5.0	7.16	0.802	0.0575





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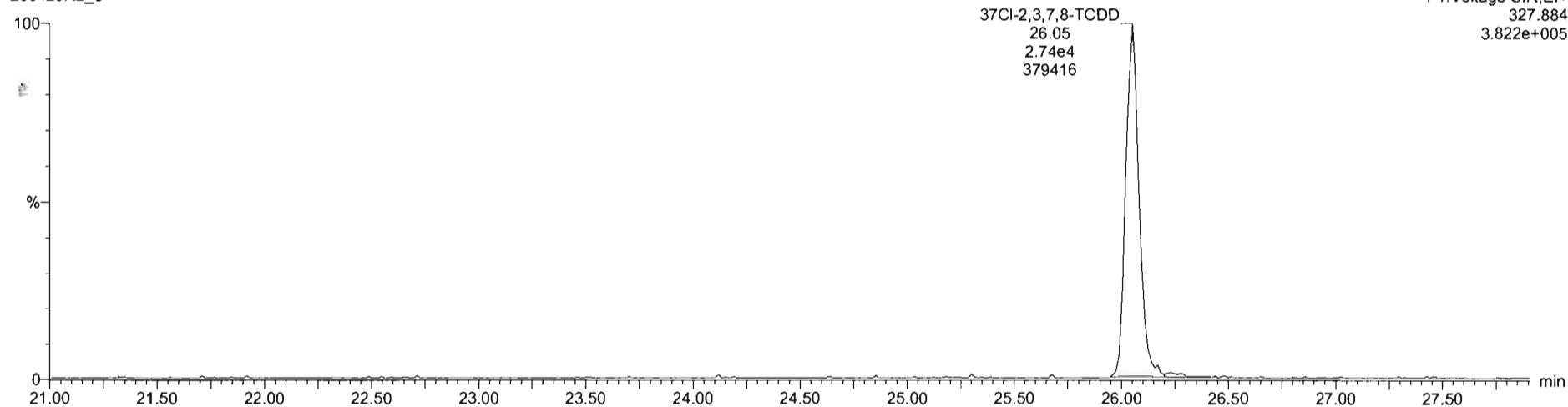
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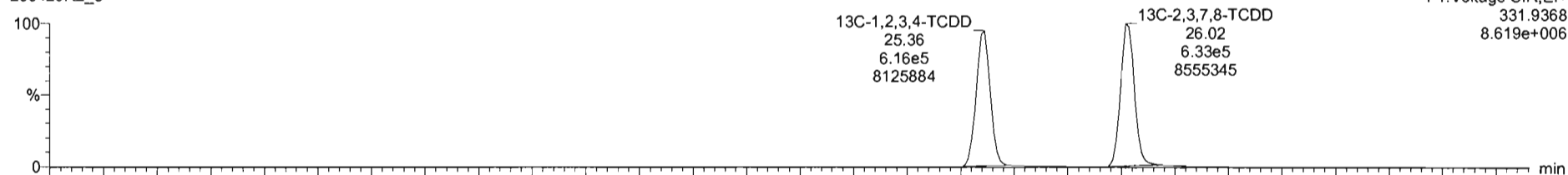
**37Cl-2,3,7,8-TCDD**

200429R2\_3

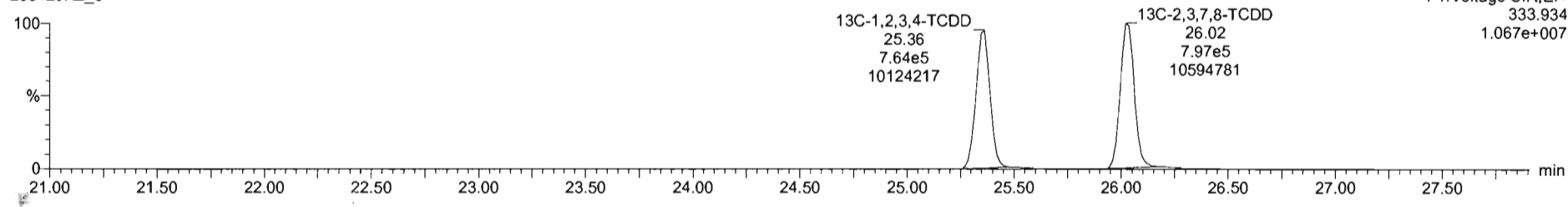


**13C-1,2,3,4-TCDD**

200429R2\_3



200429R2\_3



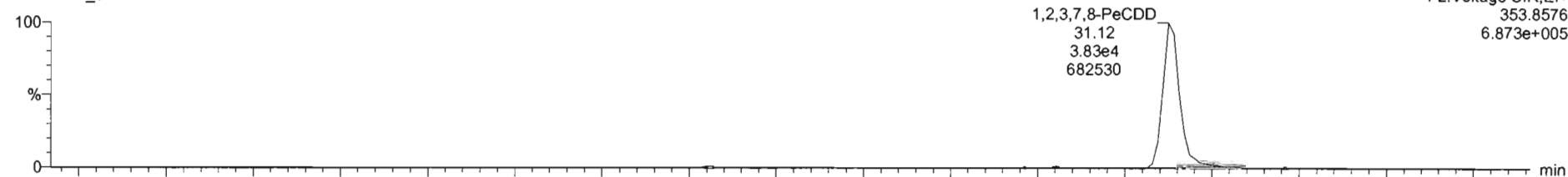
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Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time  
Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

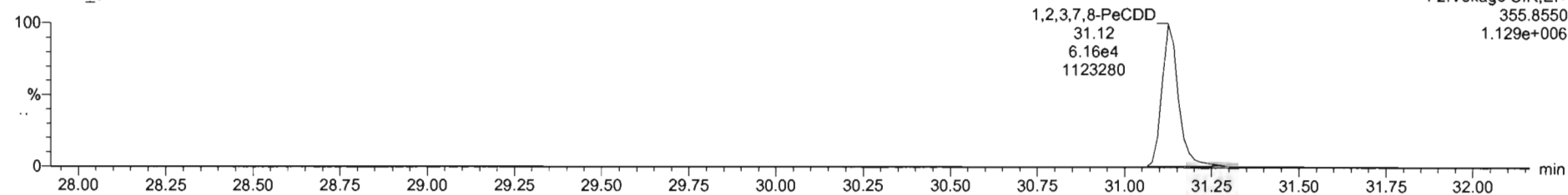
Name: 200429R2\_3, Date: 29-Apr-2020, Time: 15:02:24, ID: ST200429R2\_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

**1,2,3,7,8-PeCDD**

200429R2\_3

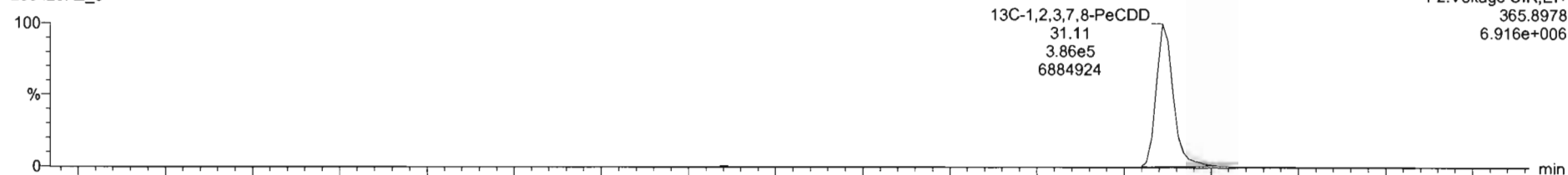


200429R2\_3

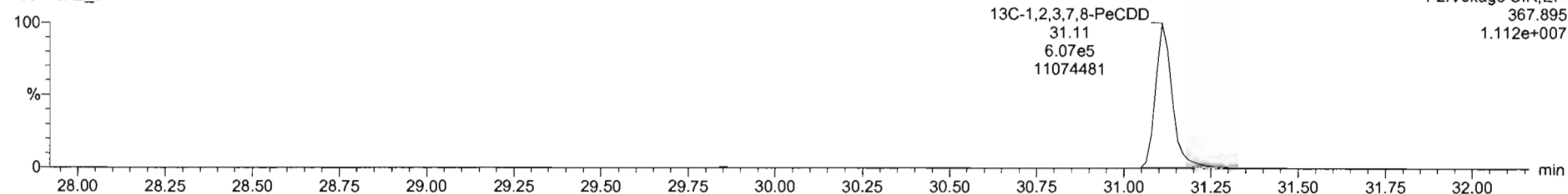


**13C-1,2,3,7,8-PeCDD**

200429R2\_3



200429R2\_3



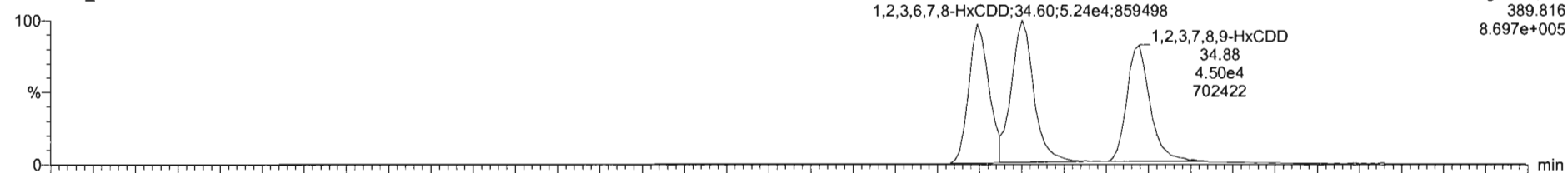
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

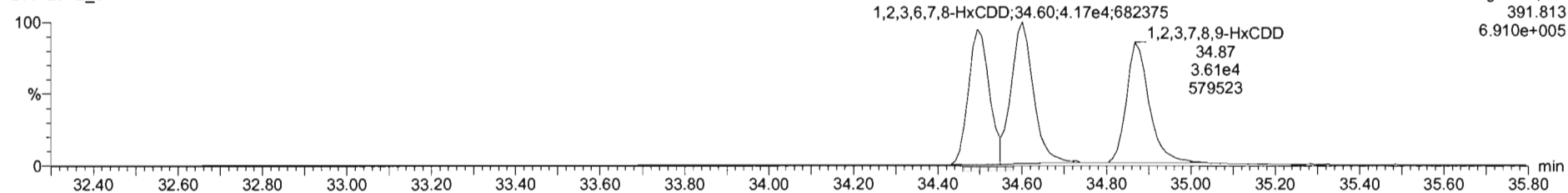
Name: 200429R2\_3, Date: 29-Apr-2020, Time: 15:02:24, ID: ST200429R2\_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

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

200429R2\_3

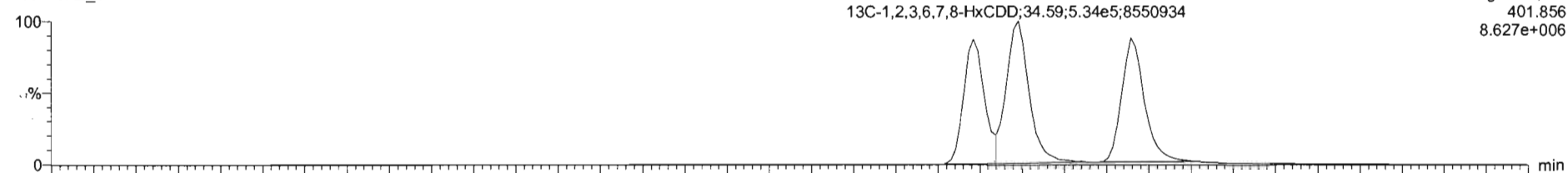


200429R2\_3

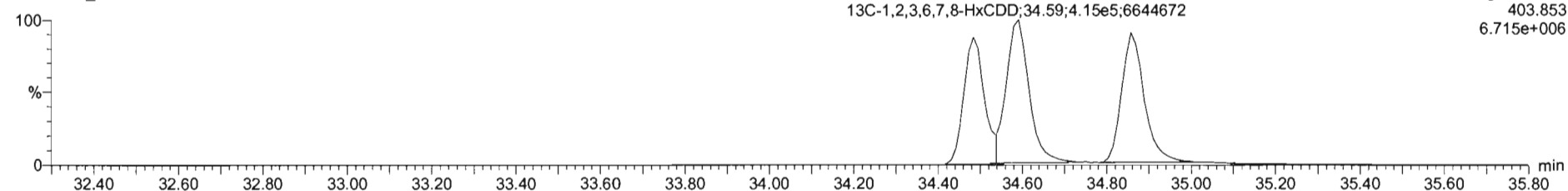


**13C-1,2,3,4,7,8-HxCDD**

200429R2\_3



200429R2\_3



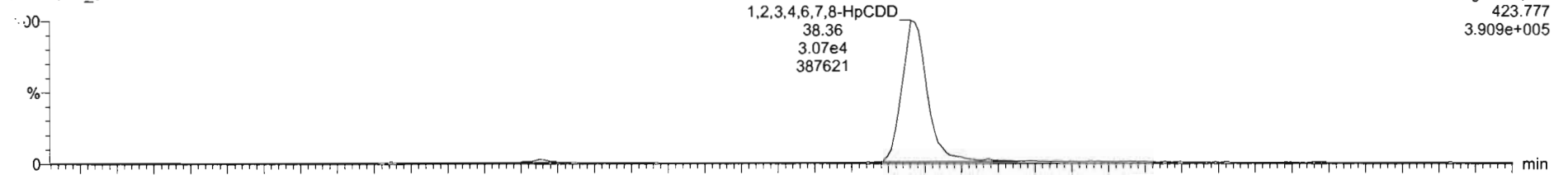
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

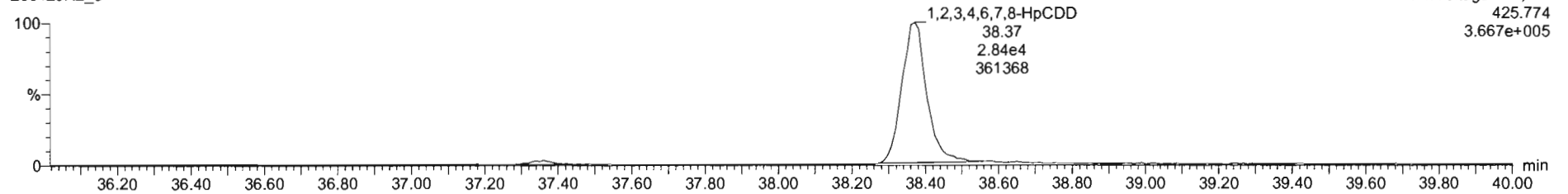
Name: 200429R2\_3, Date: 29-Apr-2020, Time: 15:02:24, ID: ST200429R2\_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

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

200429R2\_3

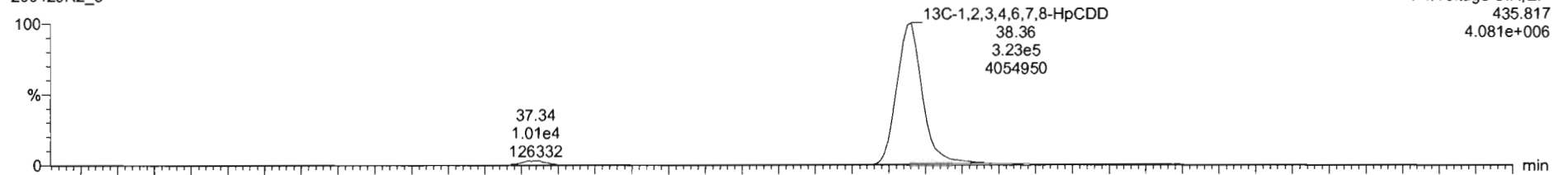


200429R2\_3

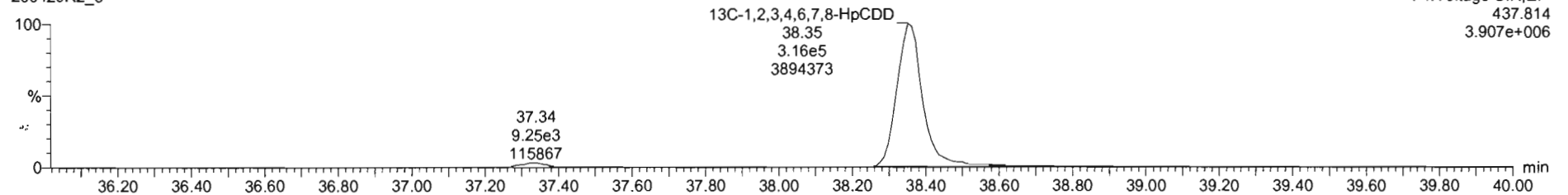


**13C-1,2,3,4,6,7,8-HpCDD**

200429R2\_3



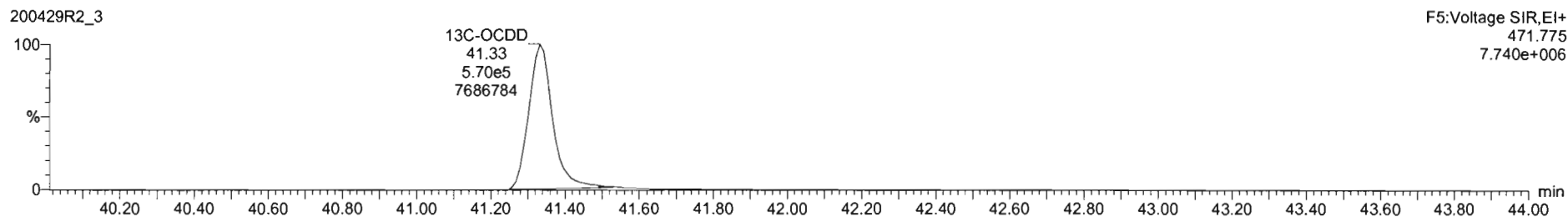
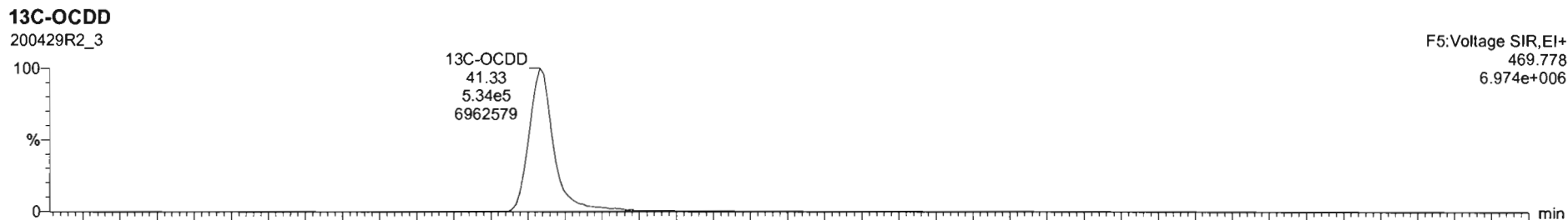
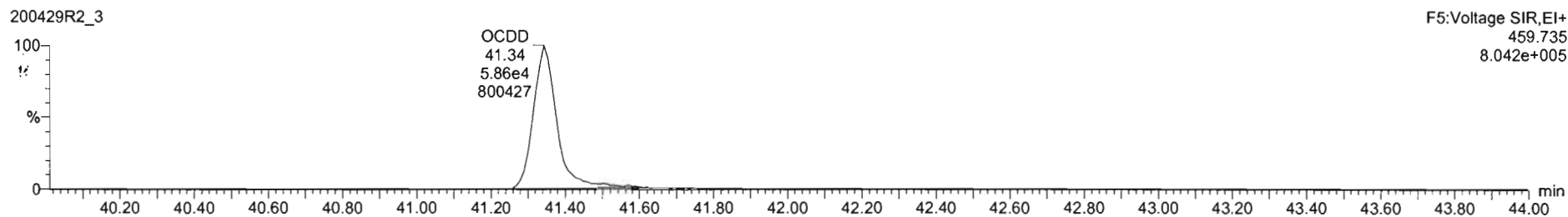
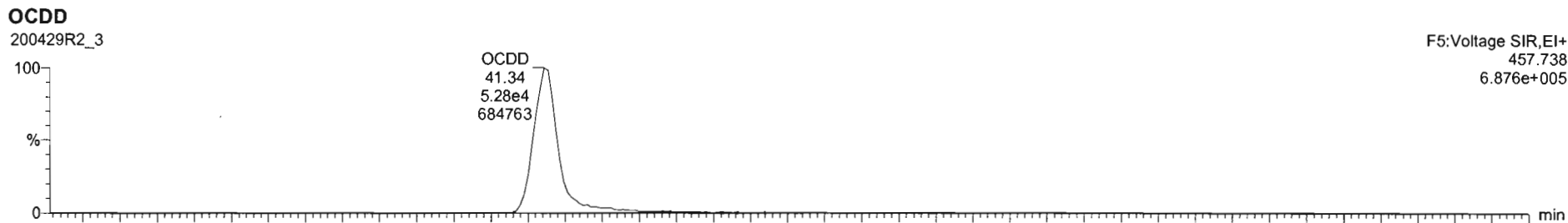
200429R2\_3



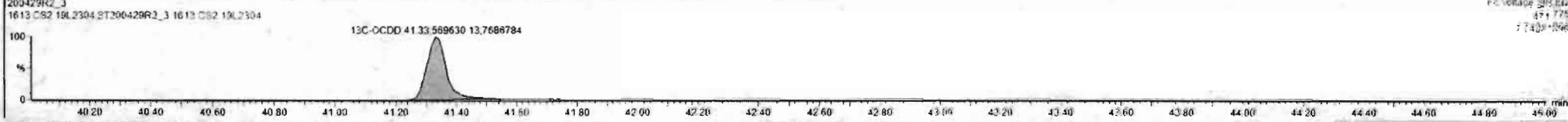
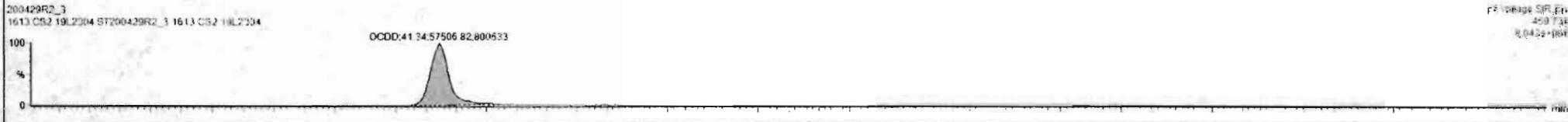
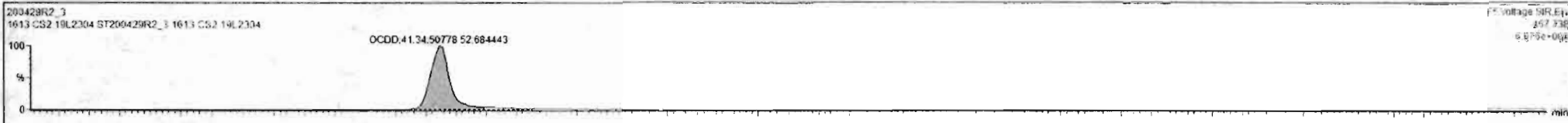
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2\_3, Date: 29-Apr-2020, Time: 15:02:24, ID: ST200429R2\_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304



#	Name	RT	RA	yh	Area	IS Area	Std Conc	%Dev	%RSD	RRF M	RRF SD
1	2,3,7,8-TCDD	26.05	0.797	NO	2.7677e4	1.4302e6	2.000	2.1	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.621	NO	9.9912e4	9.9250e5	10.000	6.8	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.246	NO	3.2429e4	7.5171e5	10.000	3.1	6.62	1.06	0.0764
4	1,2,3,6,7,8-HxCDD	34.80	1.257	NO	9.4154e4	9.4942e5	10.000	8.4	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.82	1.244	NO	8.1084e4	8.2359e5	10.000	6.3	7.64	0.915	0.0690
6	1,2,3,4,6,7,8-HpCDD	38.36	1.001	NO	5.3094e4	6.3852e5	10.000	3.1	6.93	0.856	0.0622
7	OCDD	41.34	0.863	NO	1.0629e5	1.0663e6	20.000	8.6	7.57	0.830	0.0767
8	2,3,7,8-TCDF	25.11	0.737	NO	3.4210e4	2.0671e6	2.000	4.1	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.067	NO	1.5997e5	1.6425e6	10.000	7.0	5.06	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.595	NO	1.6102e5	1.5656e6	10.000	6.4	4.98	0.906	0.0481
11	1,2,3,4,7,8-HxCDF	32.83	1.217	NO	9.1102e4	1.0175e6	10.000	6.4	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.200	NO	1.0896e5	1.1366e6	10.000	9.5	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.217	NO	1.0168e5	1.0201e6	10.000	7.1	7.69	0.922	0.0769
14	1,2,3,7,8,9-HxCDF	35.21	1.223	NO	7.7636e4	8.5876e5	10.000	4.9	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.90	0.950	NO	6.9491e4	7.6914e5	10.000	3.7	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	1.014	NO	4.8417e4	4.7188e5	10.000	3.5	6.62	1.01	0.0670
17	OCDF	41.52	0.877	NO	1.6707e5	1.2711e6	20.000	5.0	7.16	0.862	0.0575



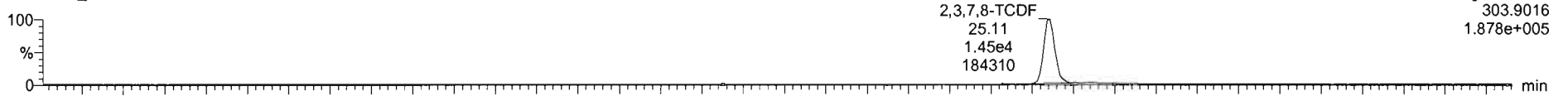
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Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time  
Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

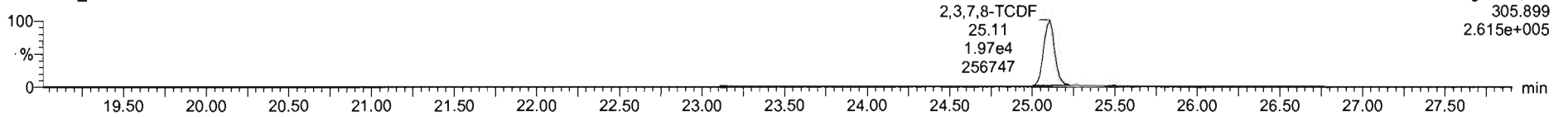
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**2,3,7,8-TCDF**

200429R2\_3

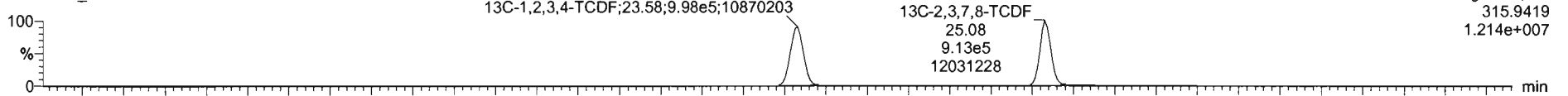


200429R2\_3

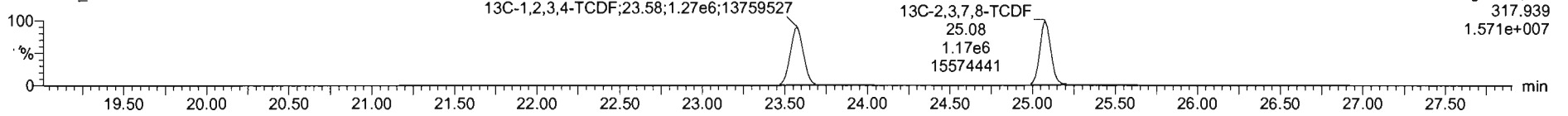


**13C-2,3,7,8-TCDF**

200429R2\_3

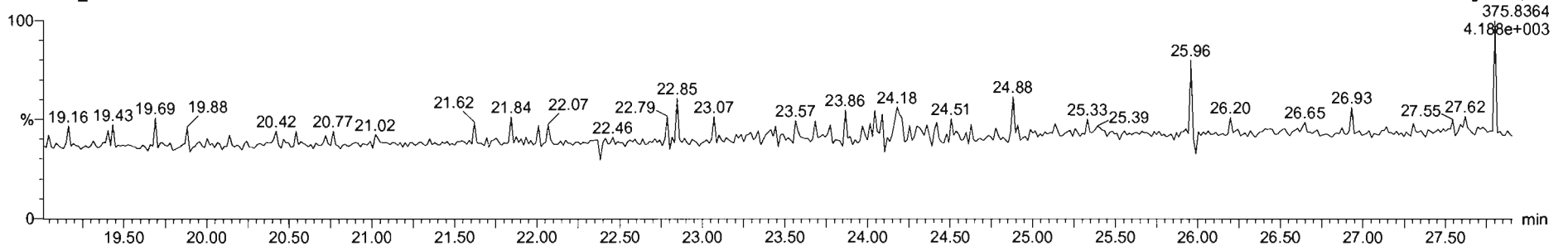


200429R2\_3



**DPE1**

200429R2\_3



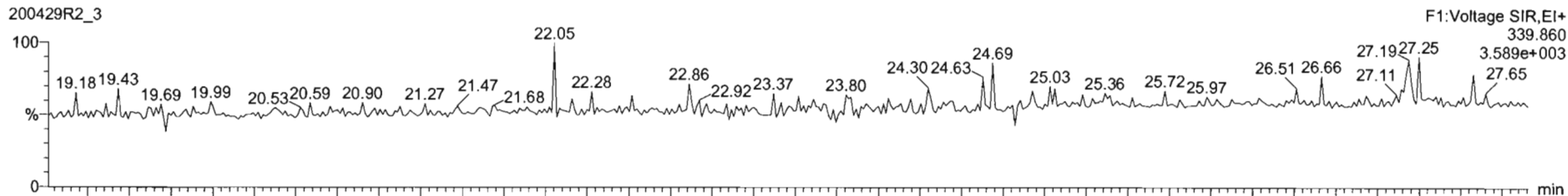
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Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time  
Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

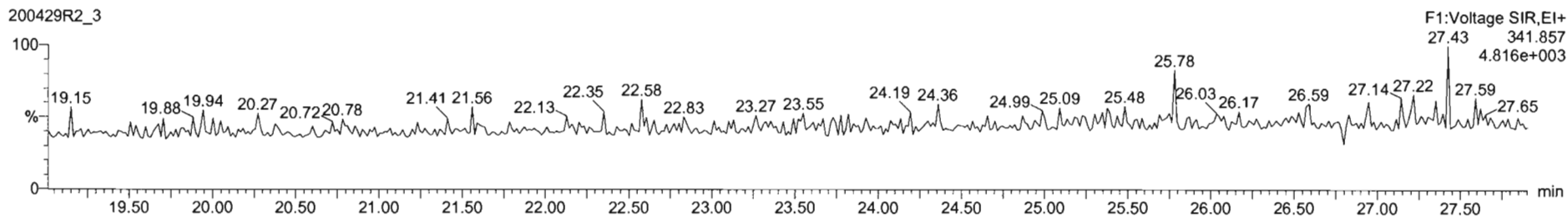
Name: 200429R2\_3, Date: 29-Apr-2020, Time: 15:02:24, ID: ST200429R2\_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

1st Func. Penta-Furans

200429R2\_3

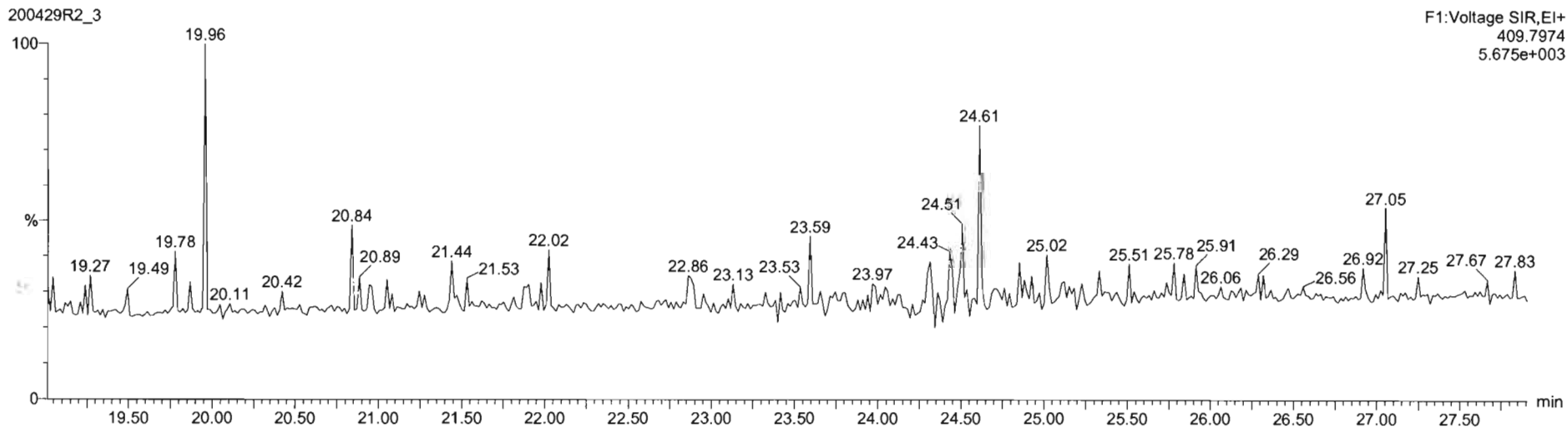


200429R2\_3



DPE6

200429R2\_3





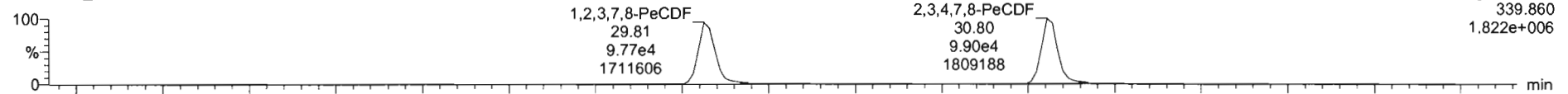
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

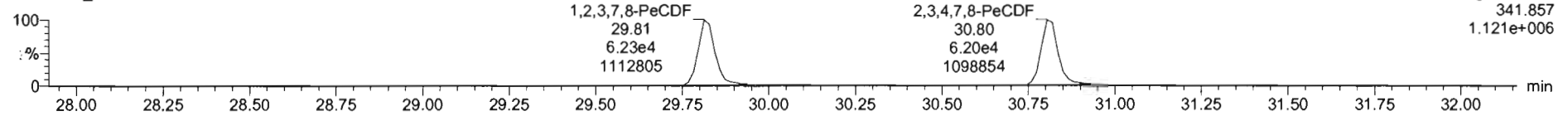
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**1,2,3,7,8-PeCDF**

200429R2\_3

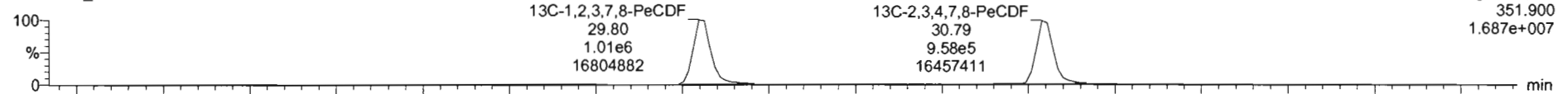


200429R2\_3

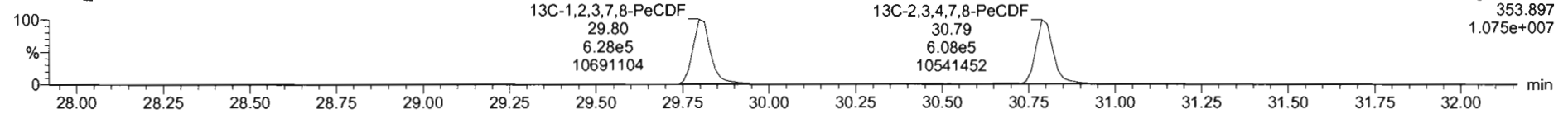


**13C-1,2,3,7,8-PeCDF**

200429R2\_3

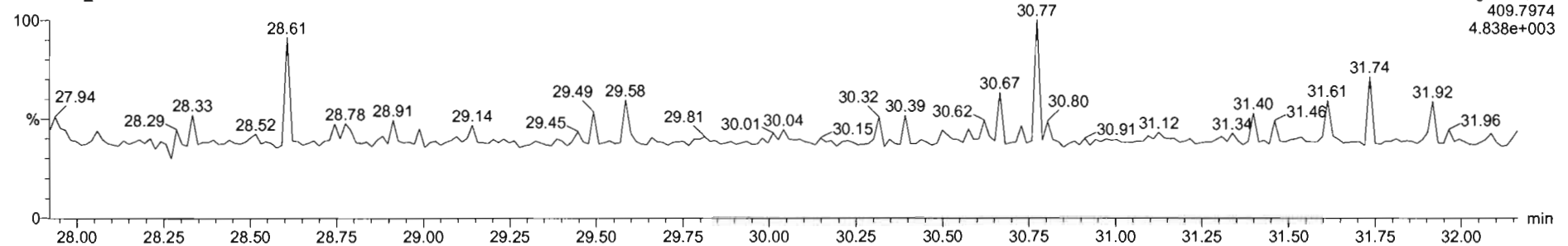


200429R2\_3



**DPE2**

200429R2\_3



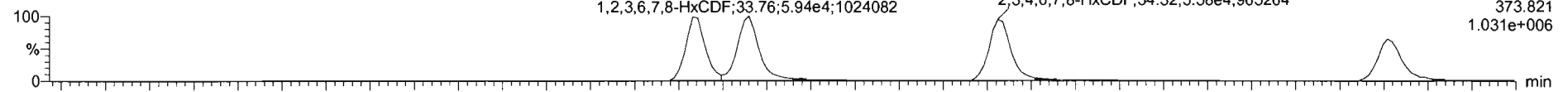
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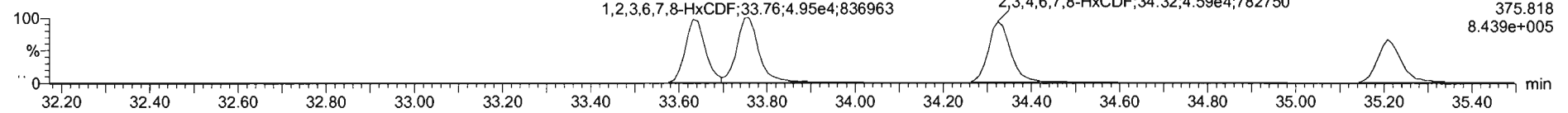
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**1,2,3,4,7,8-HxCDF**

200429R2\_3

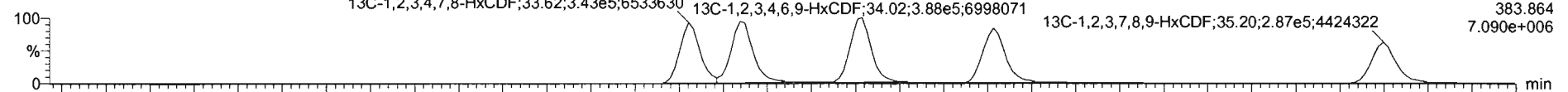


200429R2\_3

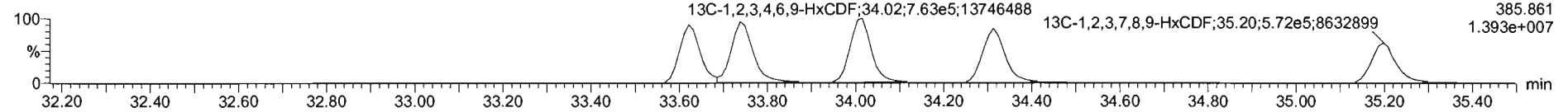


**13C-1,2,3,4,7,8-HxCDF**

200429R2\_3

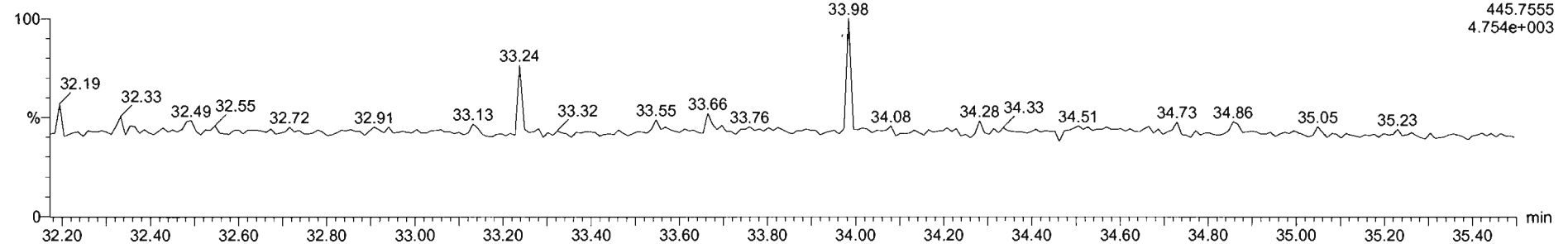


200429R2\_3



**DPE3**

200429R2\_3



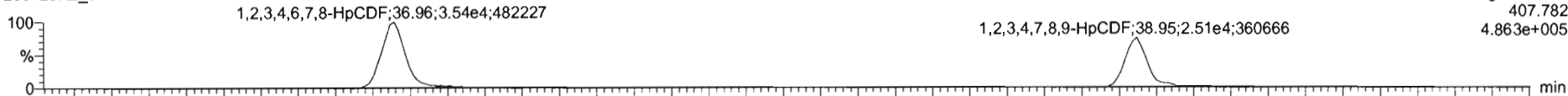
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Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time  
Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2\_3, Date: 29-Apr-2020, Time: 15:02:24, ID: ST200429R2\_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

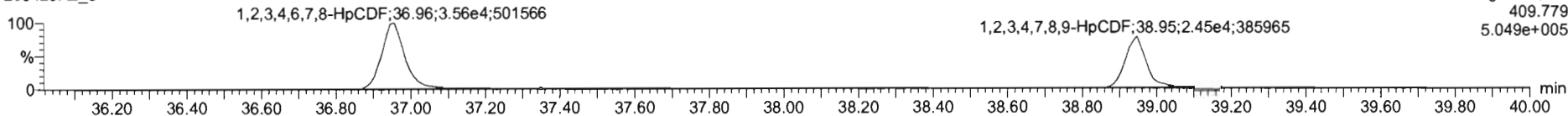
**1,2,3,4,6,7,8-HpCDF**

200429R2\_3



F4:Voltage SIR,EI+  
407.782  
4.863e+005

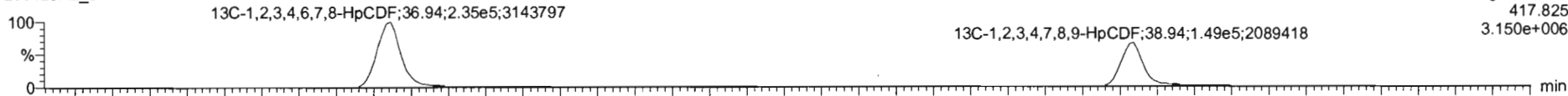
200429R2\_3



F4:Voltage SIR,EI+  
409.779  
5.049e+005

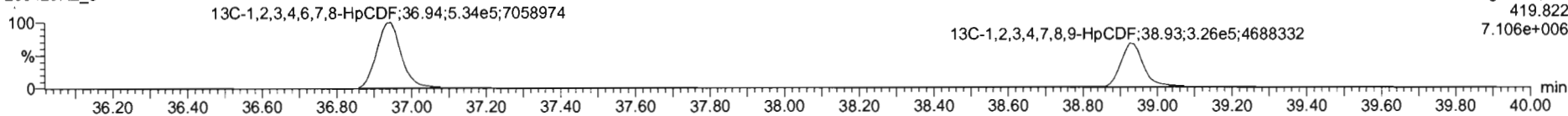
**13C-1,2,3,4,6,7,8-HpCDF**

200429R2\_3



F4:Voltage SIR,EI+  
417.825  
3.150e+006

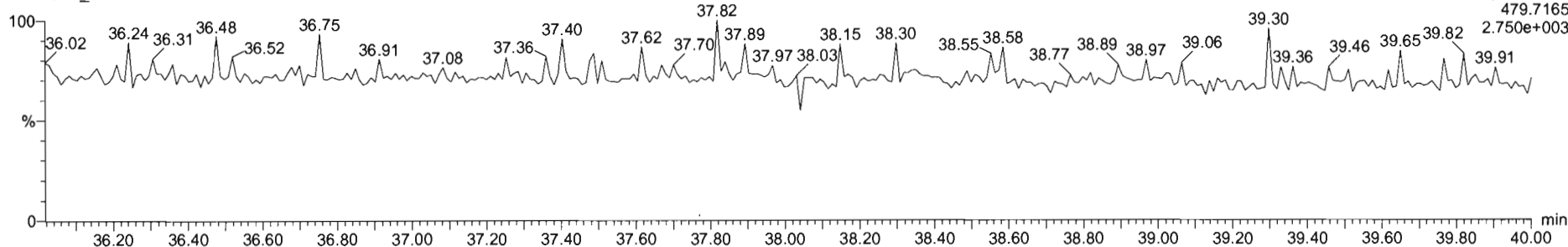
200429R2\_3



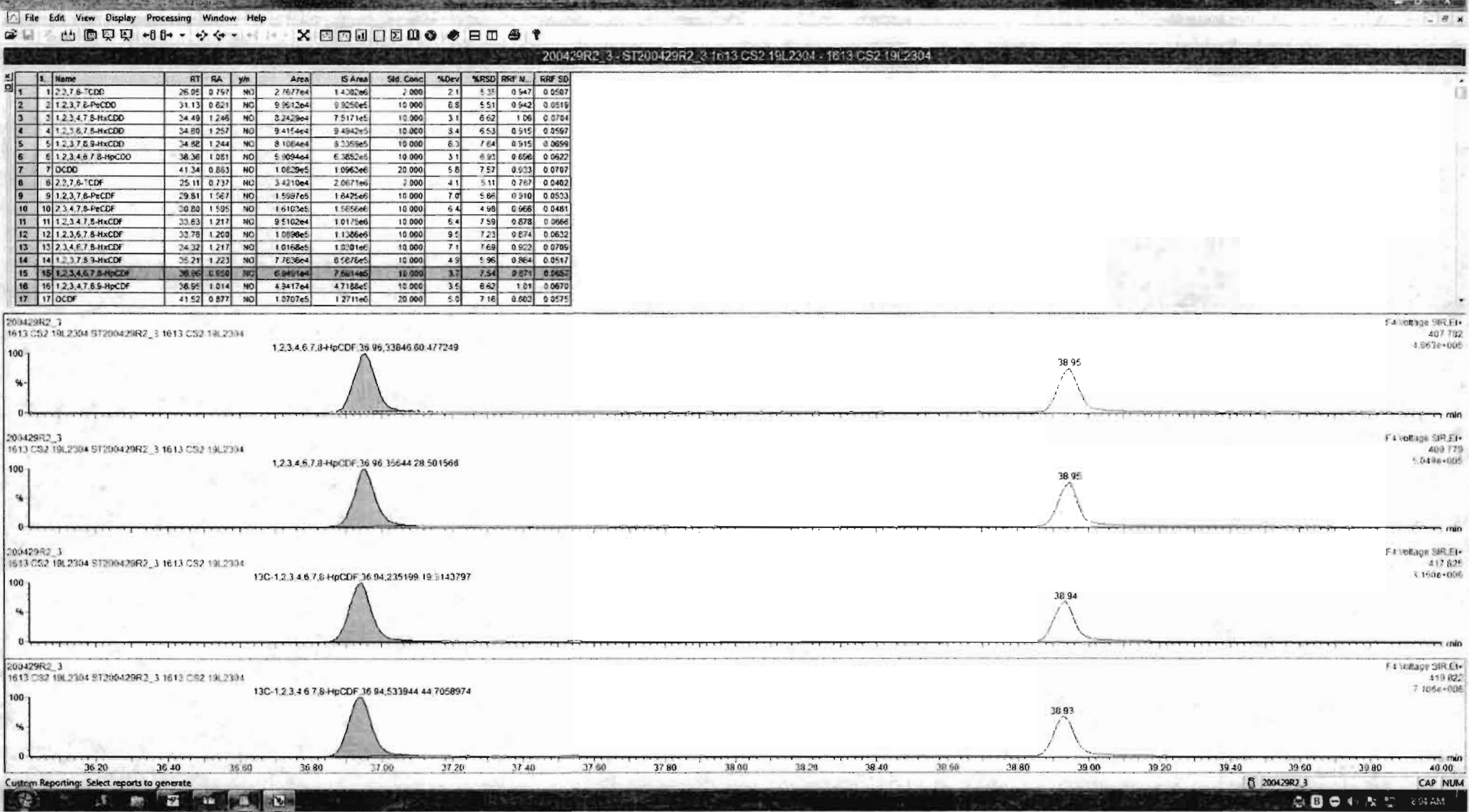
F4:Voltage SIR,EI+  
419.822  
7.106e+006

**DPE4**

200429R2\_3



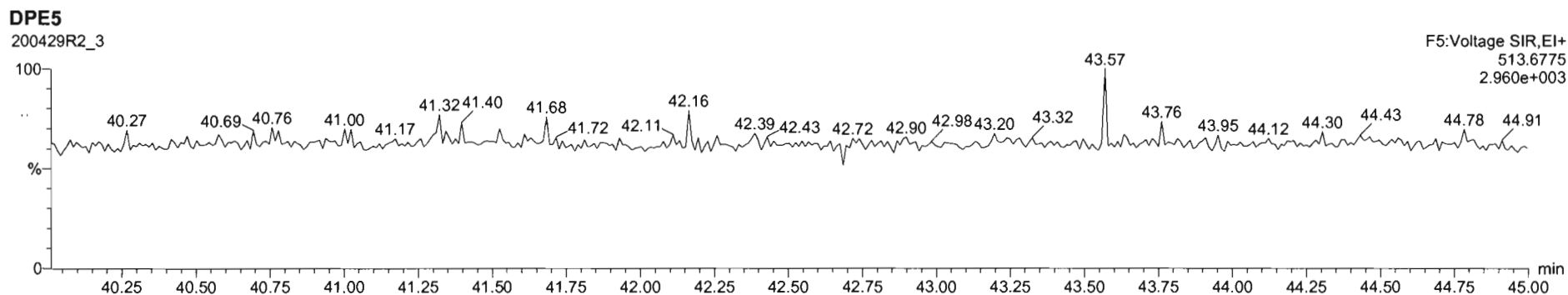
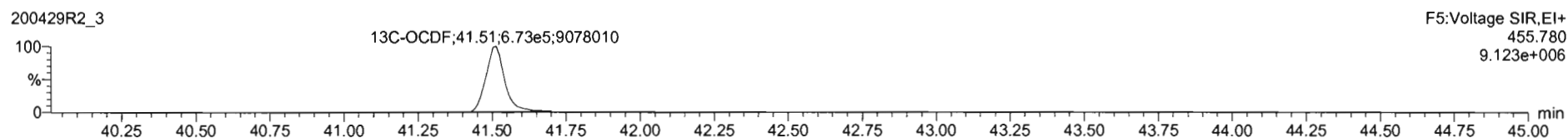
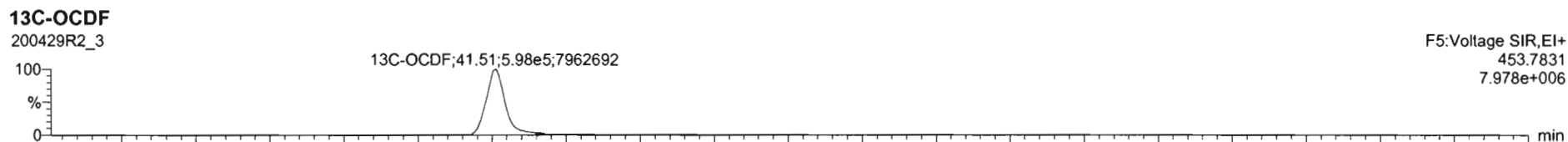
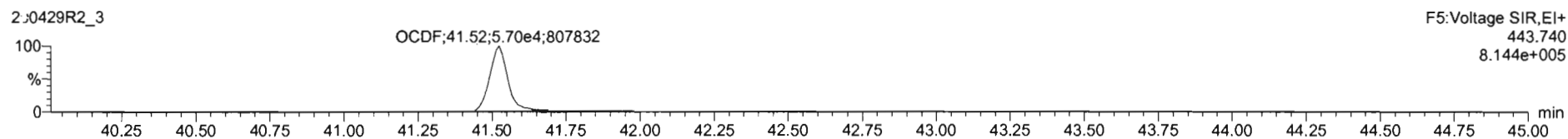
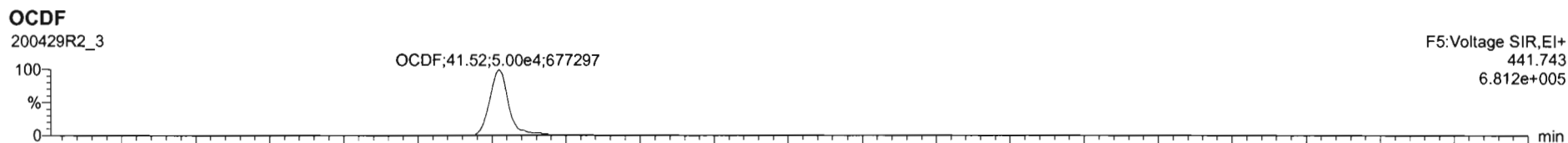
F4:Voltage SIR,EI+  
479.7165  
2.750e+003



Dataset: Untitled

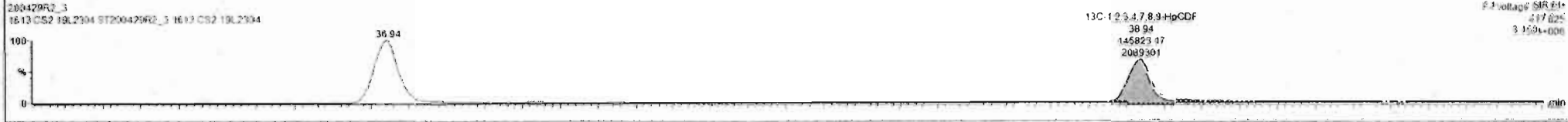
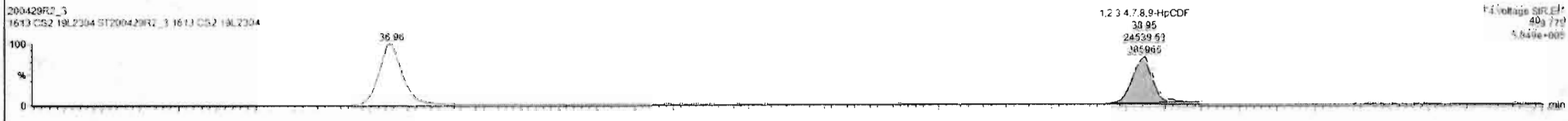
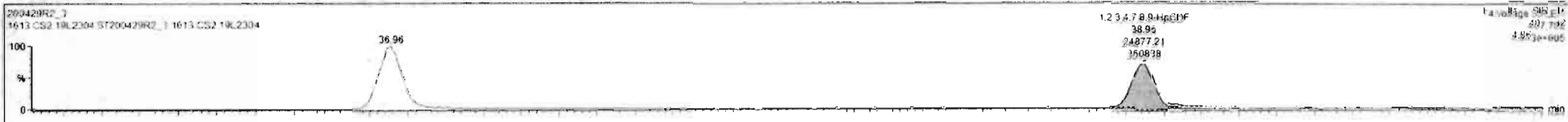
Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time  
Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2\_3, Date: 29-Apr-2020, Time: 15:02:24, ID: ST200429R2\_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304



200429R2\_3 - ST200429R2\_3 1613 CS2 19L2304 - 1613 CS2 19L2304

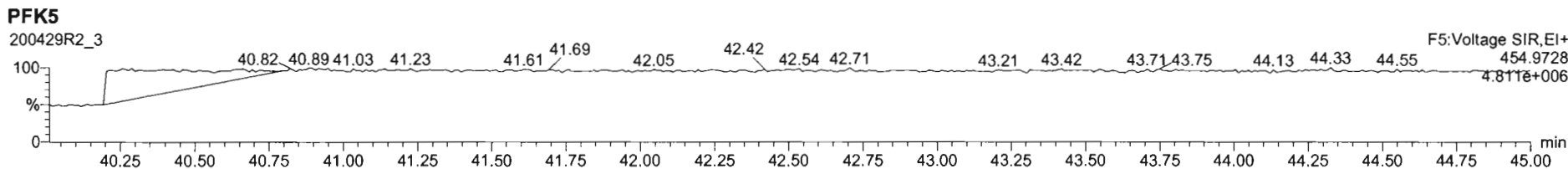
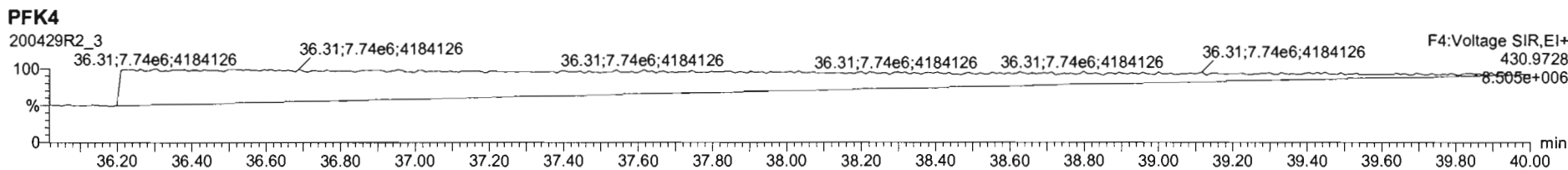
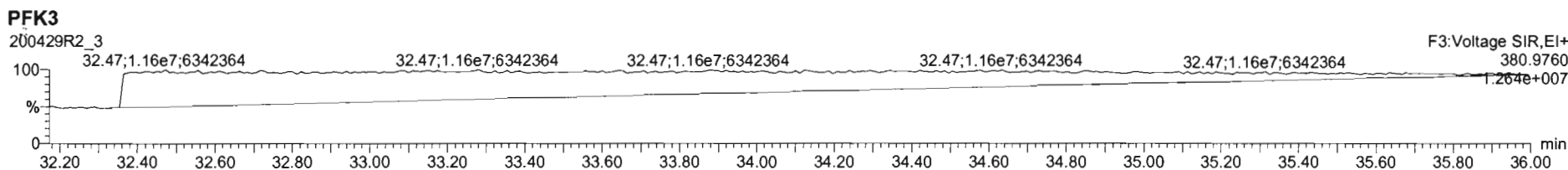
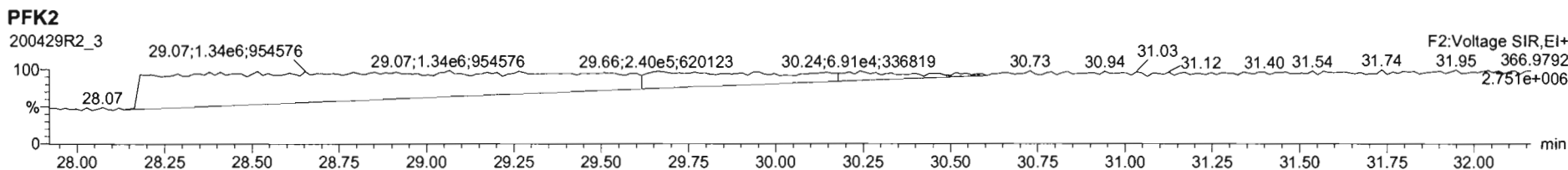
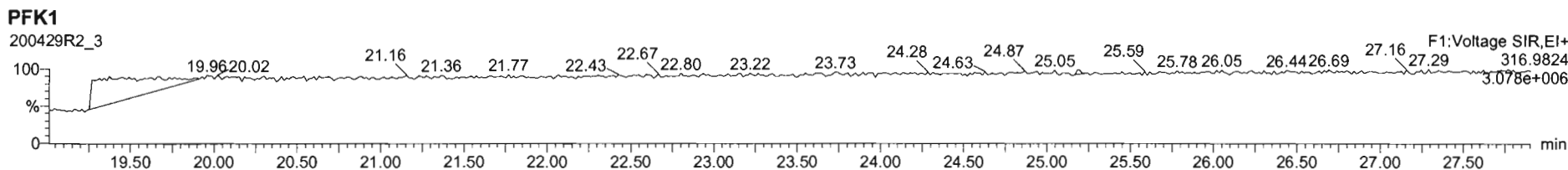
#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,6-TCDD	26.05	0.797	NO	2.7677e4	1.4302e6	2.000	2.1	5.25	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.621	NO	9.9912e4	9.9250e5	10.000	6.5	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.246	NO	8.2429e4	7.5171e5	10.000	3.1	6.62	1.06	0.0704
4	1,2,3,7,8-HxCDD	34.80	1.257	NO	9.4154e4	9.4942e5	10.000	8.4	6.53	0.915	0.0597
5	1,2,3,7,8-HxCDF	34.82	1.244	NO	8.1084e4	8.1358e5	10.000	6.3	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	38.36	1.051	NO	6.9004e4	6.3850e5	10.000	3.1	6.93	0.856	0.0622
7	OCDD	41.34	0.863	NO	1.0839e5	1.0963e6	20.000	5.8	7.57	0.933	0.0787
8	1,2,3,6-TCDF	25.11	0.737	NO	3.4210e4	2.8671e6	2.000	4.1	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.567	NO	1.5597e5	1.6425e6	10.000	7.0	5.86	0.910	0.0533
10	1,2,3,4,7,8-PeCDF	30.80	1.595	NO	1.6102e5	1.5456e6	10.000	6.4	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.63	1.217	NO	9.5102e4	1.0175e6	10.000	6.4	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.208	NO	1.0896e5	1.1386e6	10.000	9.5	7.23	0.874	0.0632
13	1,2,3,4,6,7,8-HpCDF	34.32	1.217	NO	1.0168e5	1.0201e6	10.000	7.1	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.223	NO	7.7636e4	8.5876e5	10.000	4.9	5.98	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	38.95	0.950	NO	6.9491e4	7.8914e5	10.000	3.7	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HxCDF	38.95	1.014	NO	4.9417e4	4.7182e5	10.000	2.5	6.62	1.01	0.0678
17	OCDF	41.52	0.877	NO	1.0707e5	1.2711e6	20.000	5.0	7.16	0.802	0.0575



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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2\_3, Date: 29-Apr-2020, Time: 15:02:24, ID: ST200429R2\_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

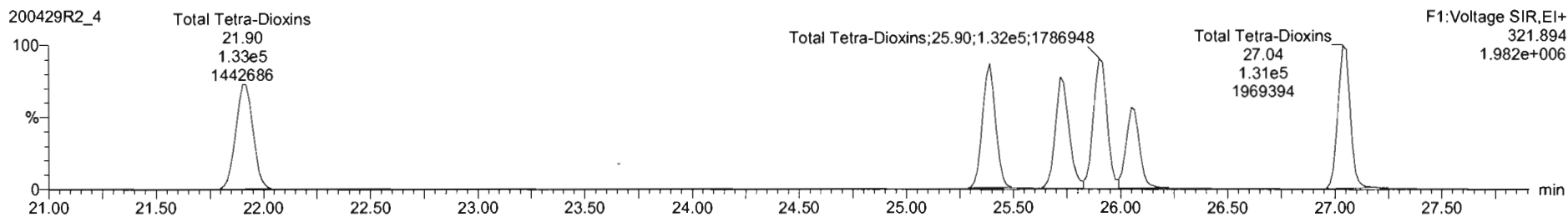
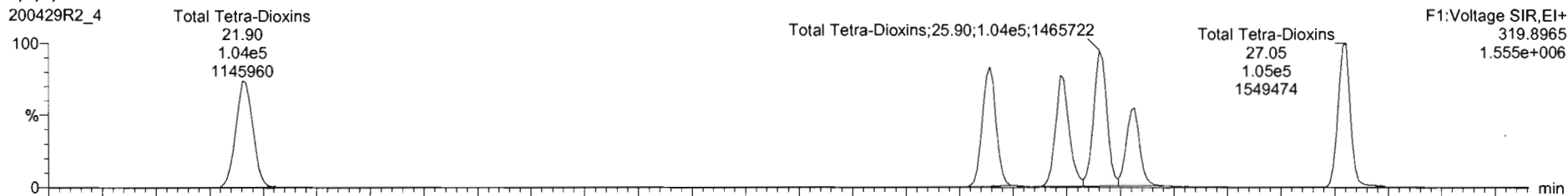


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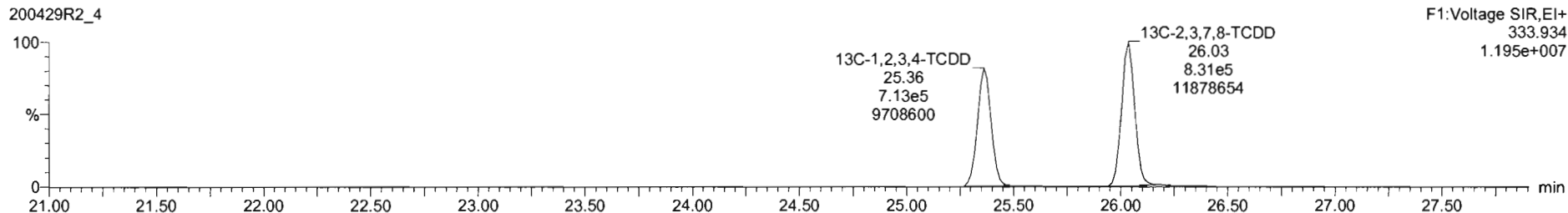
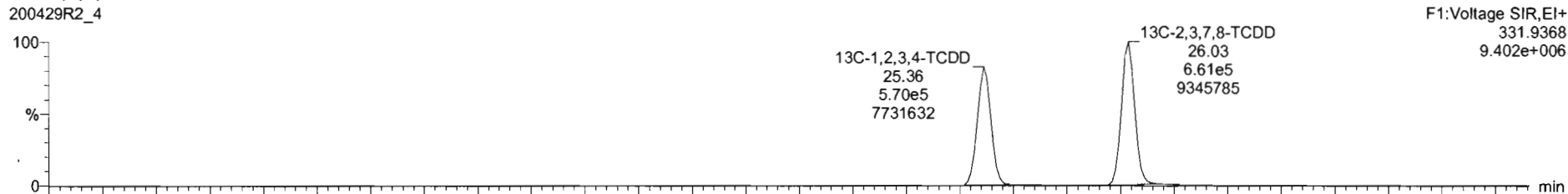
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Name: 200429R2\_4, Date: 29-Apr-2020, Time: 15:48:39, ID: ST200429R2\_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

**2,3,7,8-TCDD**



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





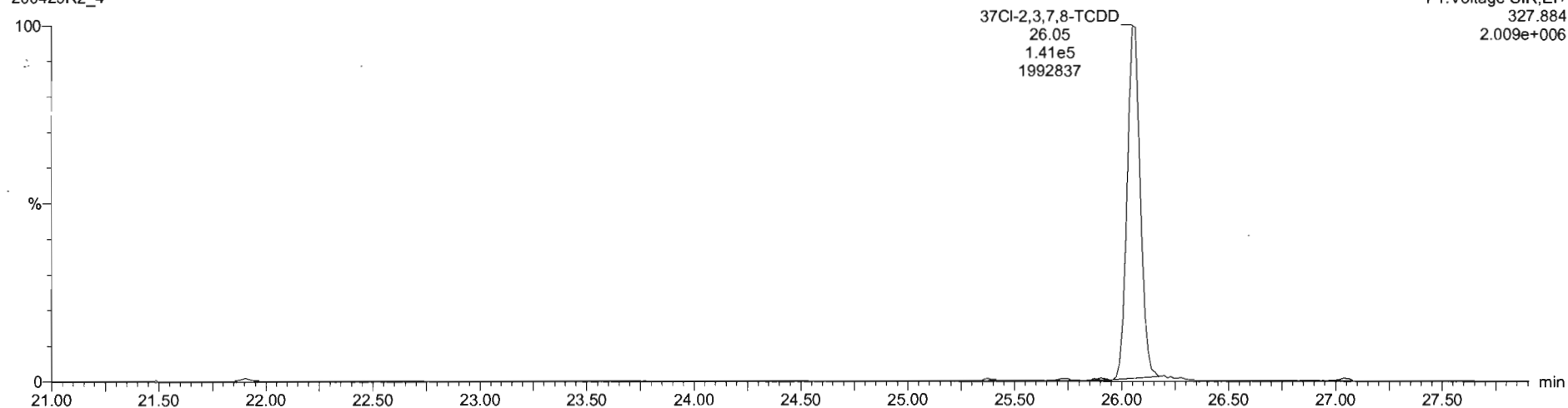
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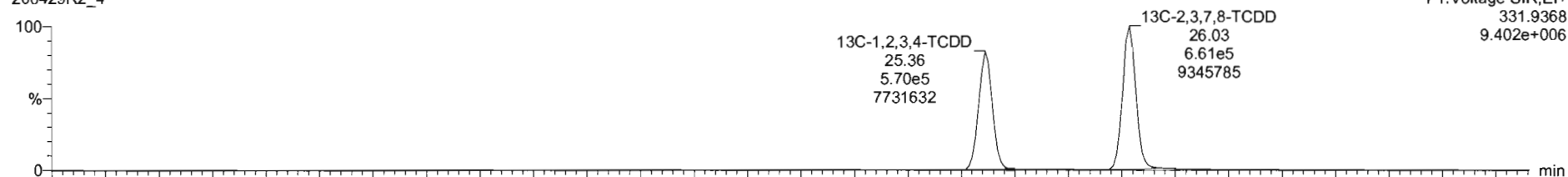
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200429R2\_4

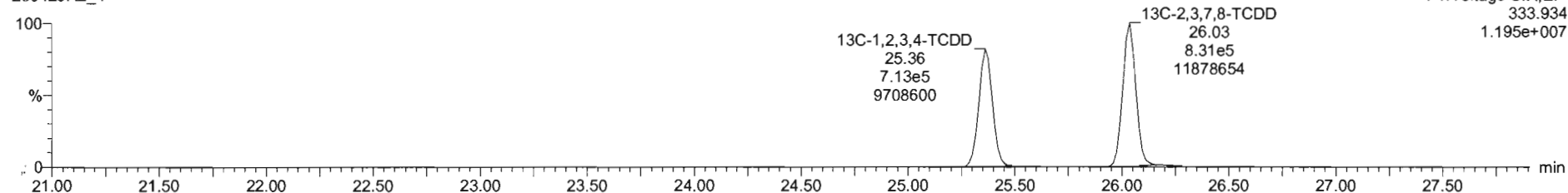


**13C-1,2,3,4-TCDD**

200429R2\_4



200429R2\_4



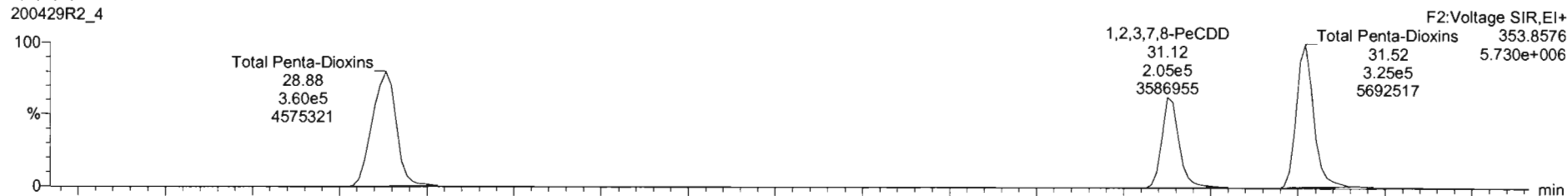
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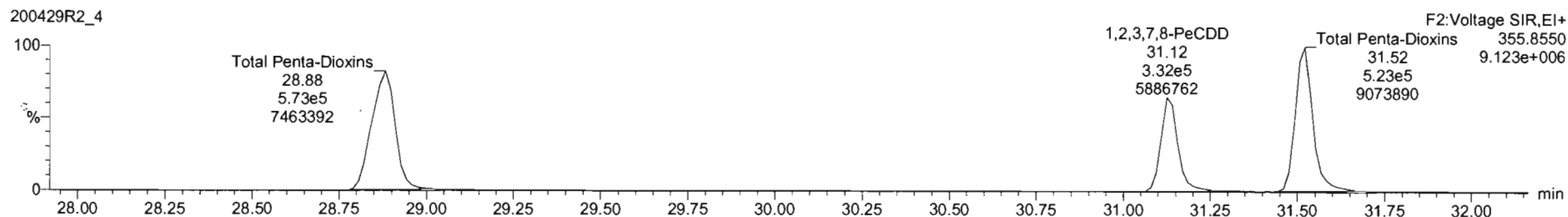
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**1,2,3,7,8-PeCDD**

200429R2\_4

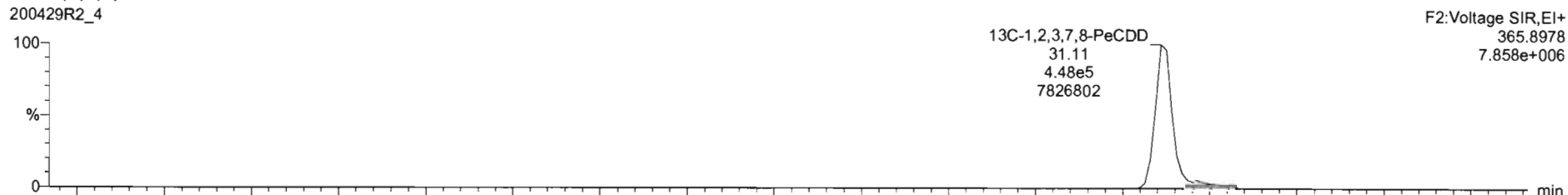


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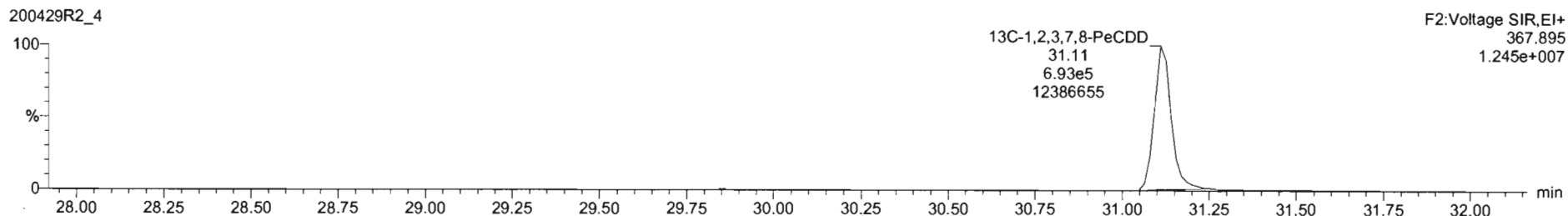


**13C-1,2,3,7,8-PeCDD**

200429R2\_4



200429R2\_4



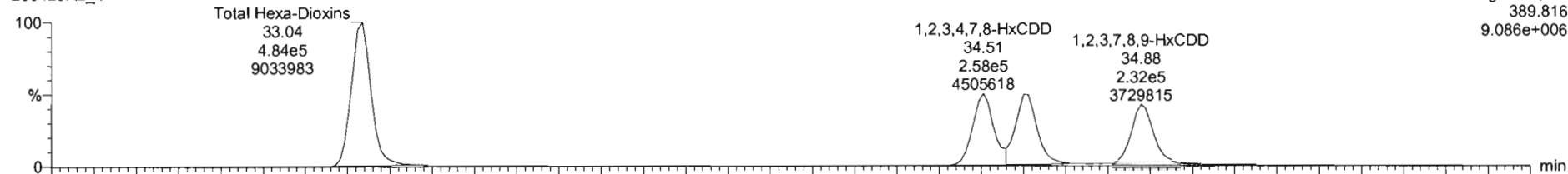
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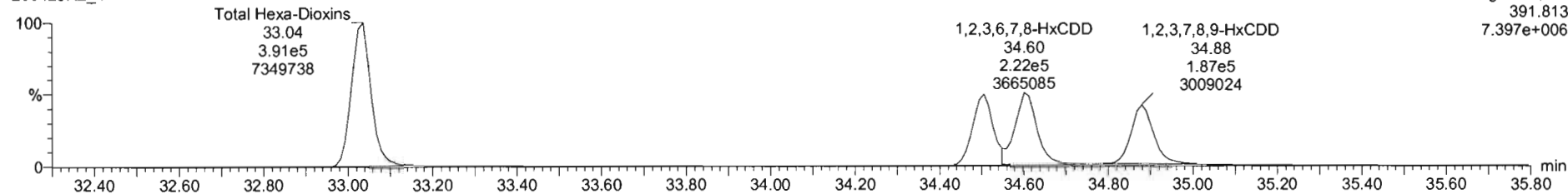
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**1,2,3,4,7,8-HxCDD**

200429R2\_4

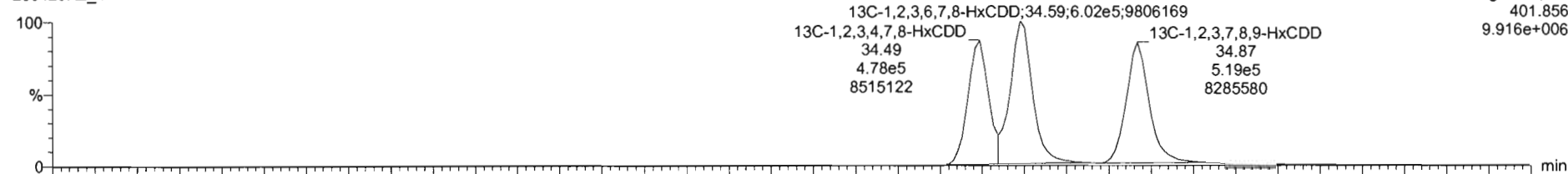


200429R2\_4

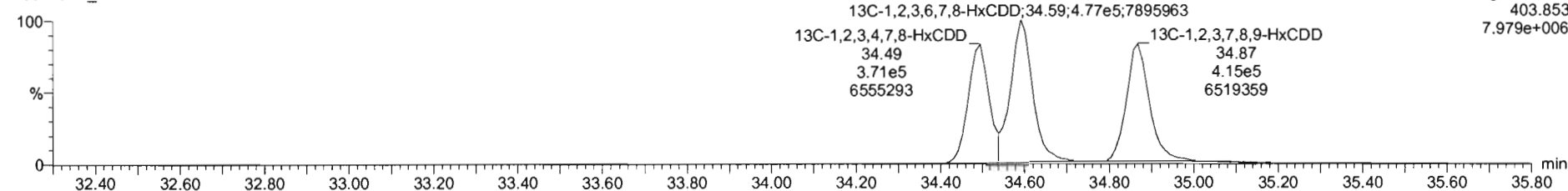


**13C-1,2,3,4,7,8-HxCDD**

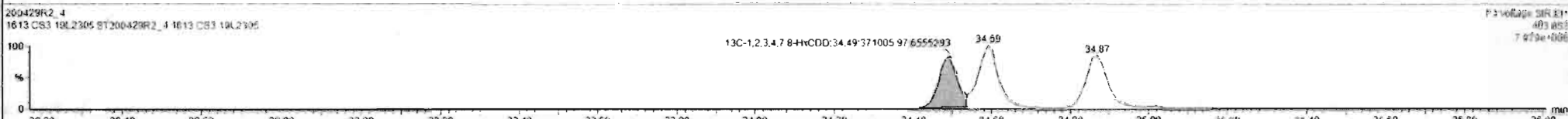
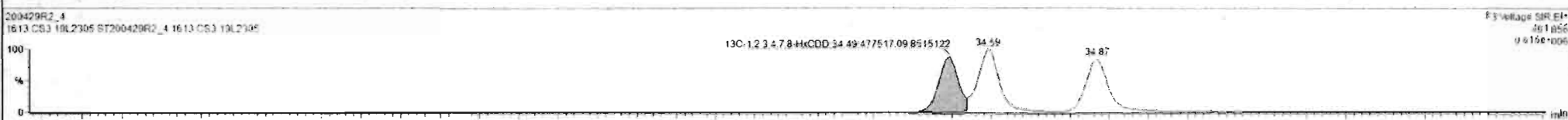
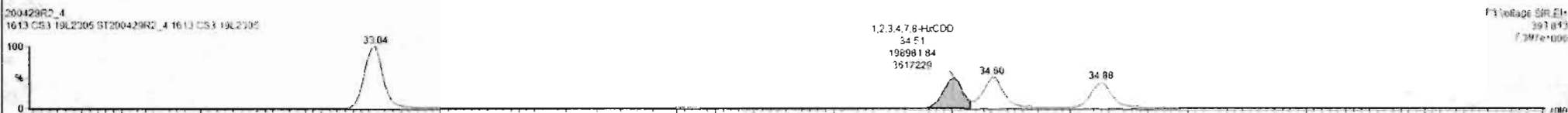
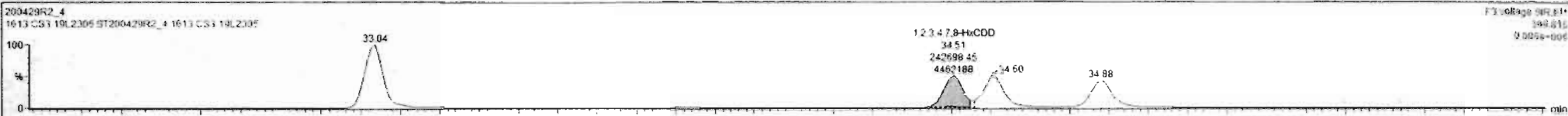
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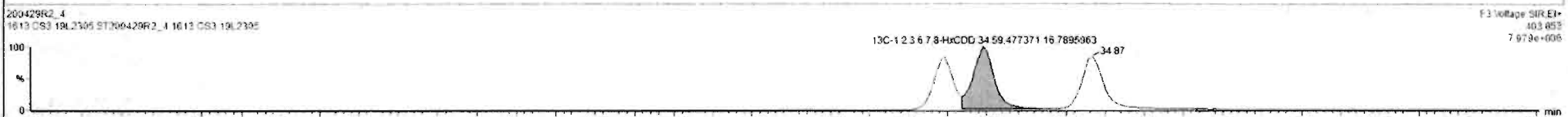
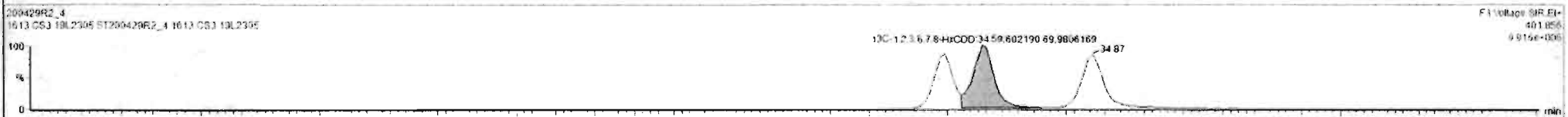
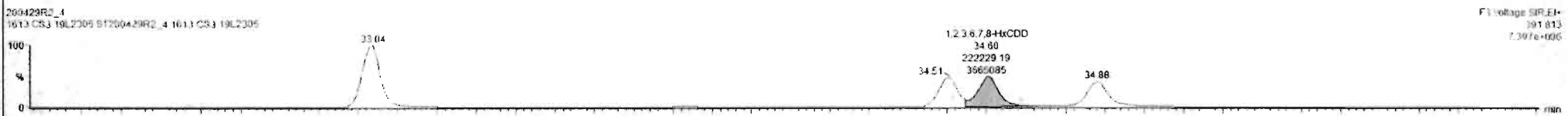
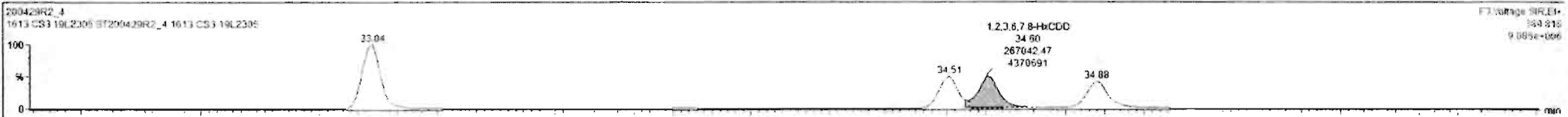
200429R2\_4



#	s	Name	RT	RA	Yth	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M	RRF SD
1	1	1,2,3,7,8-TCDD	26.07	0.761	NO	1.4250e5	1.4920e6	10.000	0.6	5.35	0.947	0.0407
2	2	1,2,3,7,8-PeCDD	31.13	0.616	NO	5.2679e5	1.1411e6	50.000	-0.2	5.51	0.942	0.0519
3	3	1,2,3,4,7,8-HxCDD	34.51	1.226	NO	4.4168e5	8.4852e5	50.000	-2.2	6.62	1.06	0.0764
4	4	1,2,3,6,7,8-HxCDD	34.82	1.202	NO	4.8827e5	1.0796e6	50.000	-0.9	6.53	0.915	0.0493
5	5	1,2,3,7,8,9-HxCDD	34.82	1.239	NO	4.1946e5	9.2381e5	50.000	-1.8	7.64	0.915	0.0699
6	6	1,2,3,4,6,7,8-HpCDD	38.38	0.988	NO	3.0789e5	6.7896e5	50.000	1.0	6.93	0.696	0.0622
7	7	OCDD	41.35	0.879	NO	5.6237e5	1.1777e6	100.000	2.5	7.57	0.939	0.0763
8	8	2,3,7,8-TCDF	25.11	0.743	NO	1.6505e5	2.1491e6	10.000	-2.4	5.11	0.767	0.0462
9	9	1,2,3,7,8-PeCDF	29.81	1.589	NO	8.4585e5	1.6862e6	50.000	0.0	5.86	0.910	0.0533
10	10	1,2,3,4,7,8-PeCDF	30.80	1.559	NO	8.7458e5	1.8179e6	50.000	-0.4	4.96	0.666	0.0481
11	11	1,2,3,4,7,8-HxCDF	33.64	1.215	NO	5.0312e5	1.1332e6	50.000	1.1	7.59	0.878	0.0668
12	12	1,2,3,6,7,8-HxCDF	33.78	1.173	NO	5.5766e5	1.2611e6	50.000	1.2	7.23	0.874	0.0633
13	13	2,3,4,6,7,8-HxCDF	34.33	1.170	NO	5.4197e5	1.1399e6	50.000	3.2	7.68	0.902	0.0765
14	14	1,2,3,7,8,9-HxCDF	35.22	1.168	NO	4.0244e5	9.2924e5	50.000	0.2	5.98	0.864	0.0517
15	15	1,2,3,4,6,7,8-HpCDF	36.97	0.952	NO	3.7224e5	8.6485e5	50.000	-1.2	7.54	0.871	0.0653
16	16	1,2,3,4,7,8,9-HxCDF	38.96	0.998	NO	2.5972e5	5.1182e5	50.000	0.3	6.62	1.01	0.0679
17	17	OCDF	41.53	0.862	NO	5.3038e5	1.3196e6	100.000	1.3	7.16	0.863	0.0575



#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.761	NO	1.4250e5	1.4920e6	10.000	0.6	5.25	0.947	0.0567
2	1,2,3,7,8-PeCDD	31.13	0.616	NO	5.3679e5	1.1411e6	50.000	0.2	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.220	NO	4.4168e5	3.4852e5	50.000	-2.2	6.62	1.06	0.0764
4	1,2,3,6,7,8-HxCDD	34.60	1.202	NO	4.8027e5	1.0736e6	50.000	-0.9	6.53	0.915	0.0567
5	1,2,3,7,8,9-HxCDD	34.98	1.239	NO	4.1946e5	9.2381e5	50.000	-1.5	7.64	0.915	0.0659
6	1,2,3,4,6,7,8-HpCDD	38.36	0.908	NO	3.0769e5	6.7896e5	50.000	1.0	6.93	0.856	0.0622
7	OCDD	41.25	0.879	NO	5.6237e5	1.1777e6	100.000	2.3	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.11	0.743	NO	1.6505e5	2.1451e6	10.000	-2.4	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.589	NO	3.4585e5	1.6662e6	50.000	0.0	5.86	0.910	0.0533
10	1,2,3,4,7,8-PeCDF	30.80	1.559	NO	8.7458e5	1.9179e6	50.000	-0.4	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.215	NO	5.0312e5	1.1332e6	50.000	1.1	7.59	0.878	0.0668
12	1,2,3,6,7,8-HxCDF	33.75	1.173	NO	5.5786e5	1.2611e6	50.000	1.2	7.23	0.674	0.0632
13	1,2,3,4,6,7,8-HxCDF	34.33	1.170	NO	5.4197e5	1.1399e6	50.000	3.2	7.69	0.922	0.0769
14	1,2,3,7,8,9-HxCDF	35.22	1.168	NO	4.0244e5	9.2624e5	50.000	0.2	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	0.962	NO	3.7224e5	6.6485e5	50.000	-1.2	7.54	0.871	0.0667
16	1,2,3,4,7,8,9-HpCDF	38.96	0.998	NO	2.5973e5	5.1163e5	50.000	0.3	6.62	1.01	0.0670
17	OCDF	41.53	0.862	NO	5.3639e5	1.3198e6	100.000	1.3	7.16	0.602	0.0575



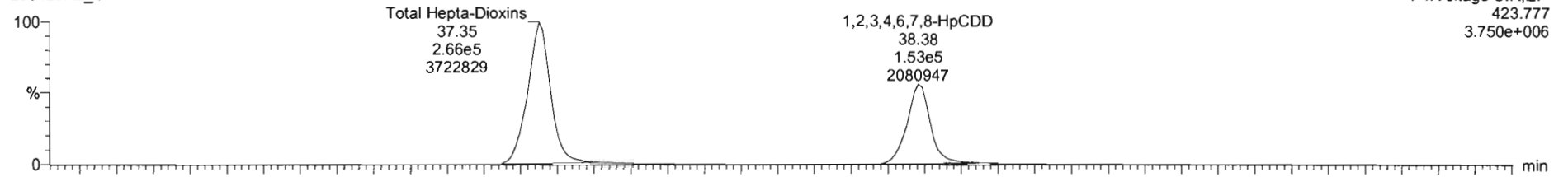
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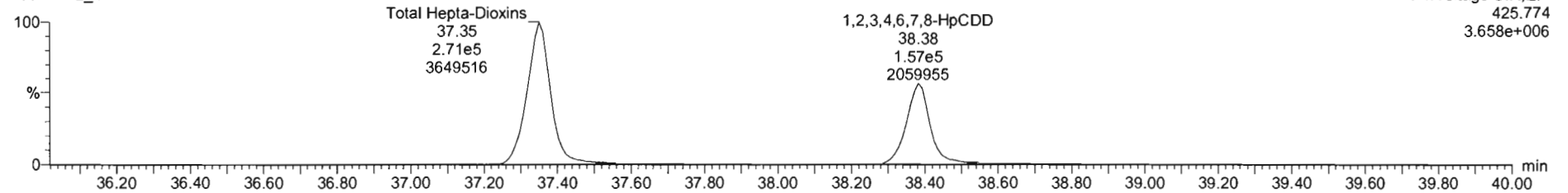
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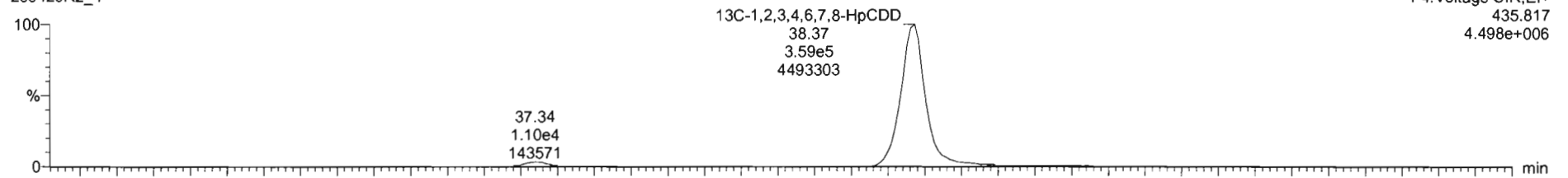
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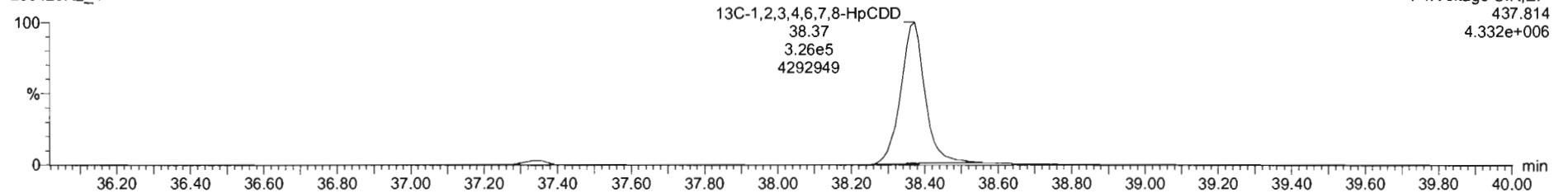
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200429R2\_4



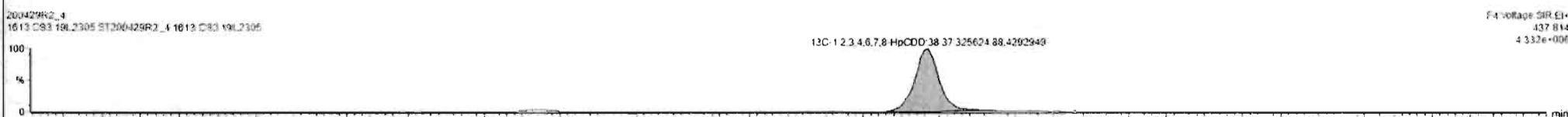
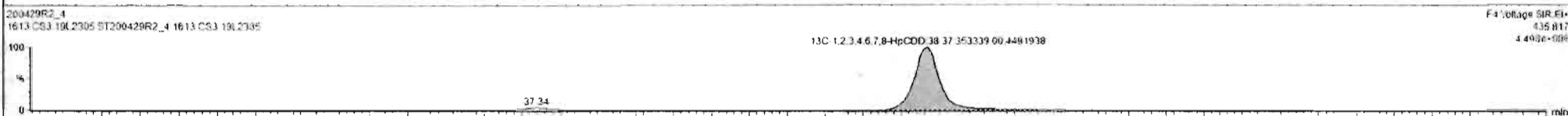
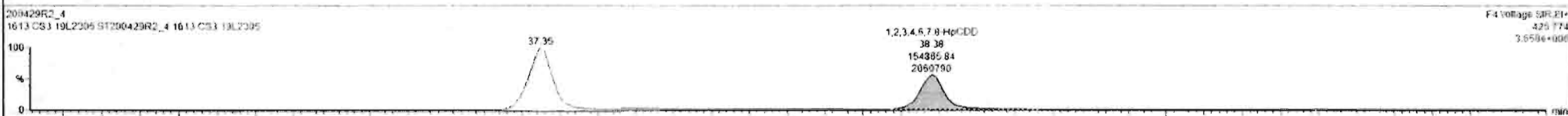
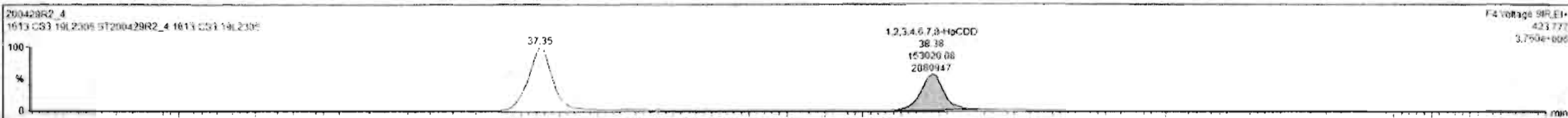
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200429R2\_4



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#	Name	RT	RA	yh	Area	IS Area	Std Conc	%Dev	%RSD	RRF M.	RRF SD
1	1,2,3,6-TCDD	26.07	0.761	NO	1.4250e5	1.4920e6	10.000	0.6	5.25	0.947	0.0507
2	1,2,3,7,8-PeCDD	21.13	0.616	NO	5.3679e5	1.1411e6	50.000	-0.2	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	24.51	1.229	NO	4.4168e5	8.4852e5	50.000	2.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	24.00	1.202	NO	4.8927e5	1.0796e6	50.000	-0.9	6.53	0.915	0.0592
5	1,2,3,7,8,9-HxCDD	34.98	1.219	NO	4.1946e5	9.3381e5	50.000	-1.8	7.64	0.915	0.0599
6	1,2,3,4,6,7,8-HpCDD	38.36	0.968	NO	3.0769e5	6.7596e5	50.000	1.0	6.93	0.898	0.0622
7	OCDD	41.35	0.879	NO	5.6337e5	1.1777e6	100.000	2.5	7.57	0.923	0.0707
8	2,3,7,8-TCDF	25.11	0.743	NO	1.6505e5	2.1491e6	10.000	-2.4	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.589	NO	8.4585e5	1.8662e6	50.000	0.0	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	29.00	1.559	NO	8.7458e5	1.8179e6	50.000	-0.4	4.96	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	23.84	1.215	NO	5.0312e5	1.1332e6	50.000	1.1	7.59	0.878	0.0566
12	1,2,3,6,7,8-HxCDF	23.76	1.173	NO	5.5786e5	1.2611e6	50.000	1.2	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	24.33	1.170	NO	5.4197e5	1.1399e6	50.000	3.2	7.69	0.922	0.0765
14	1,2,3,7,8,9-HxCDF	25.22	1.168	NO	4.0244e5	9.2634e5	50.000	0.2	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	0.962	NO	3.7224e5	8.6486e5	50.000	-1.2	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	28.06	0.998	NO	2.6973e5	5.1185e5	50.000	0.3	6.62	1.01	0.0678
17	OCDF	41.53	0.862	NO	5.3639e5	1.3196e6	100.000	1.3	7.16	0.802	0.0575



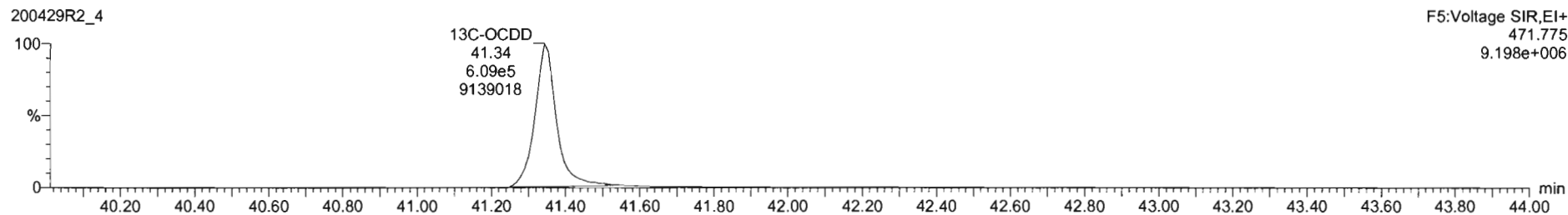
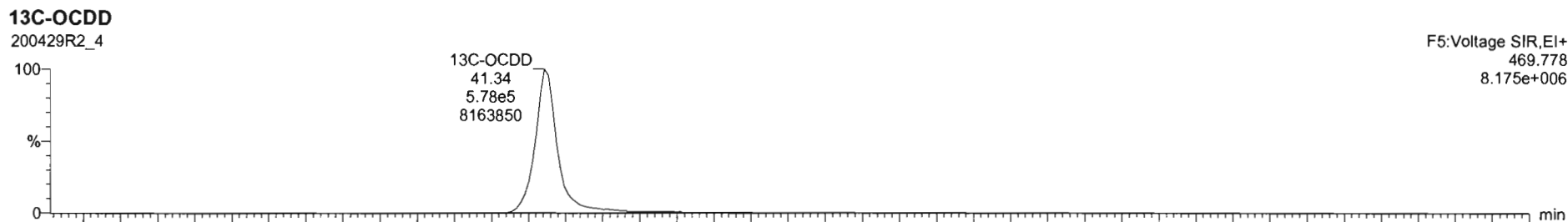
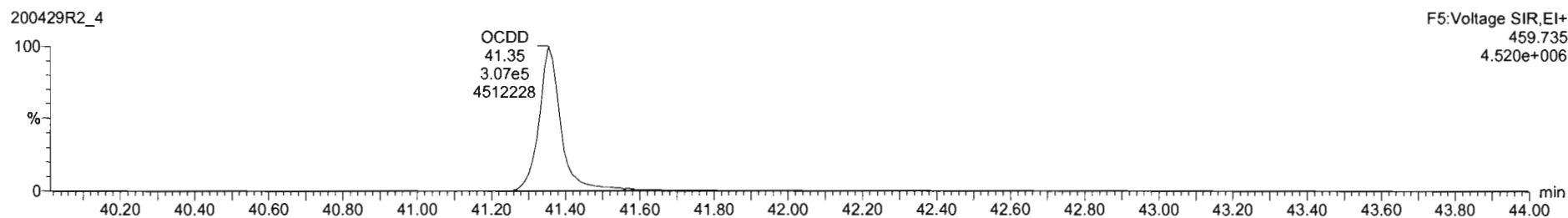
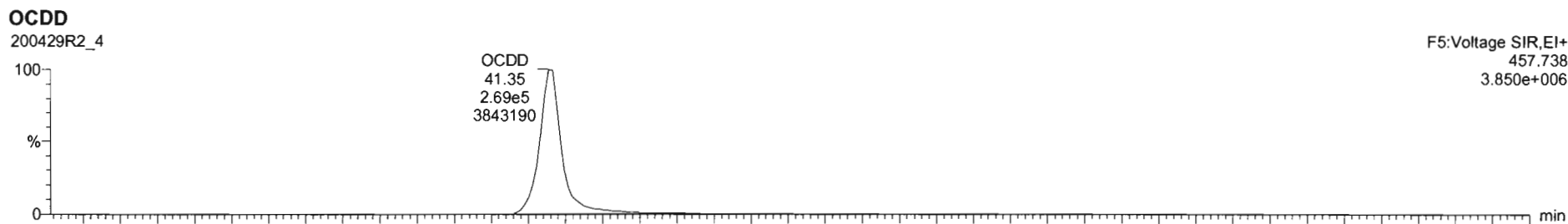
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2\_4, Date: 29-Apr-2020, Time: 15:48:39, ID: ST200429R2\_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305





File Edit View Display Processing Window Help

200429R2\_4 - ST200429R2\_4 1613 CS3 19L2305 - 1613 CS3 19L2305

#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.751	NO	1.4250e5	1.4920e6	10.000	0.0	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.616	NO	5.3679e5	1.1411e6	50.000	-0.2	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.220	NO	4.4168e5	3.4852e5	50.000	-2.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.80	1.202	NO	4.8927e5	1.0796e6	50.000	-0.9	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.88	1.239	NO	4.1546e5	9.3381e5	50.000	-1.8	7.64	0.915	0.0659
6	1,2,3,4,6,7,8-HpCDD	36.36	0.908	NO	3.0769e5	6.7896e5	50.000	1.0	6.93	0.656	0.0622
7	OCDD	41.35	0.879	NO	5.8337e5	1.1777e6	100.000	2.5	7.57	0.833	0.0261
8	2,2,7,8-TCDF	25.11	0.743	NO	1.6505e5	2.1491e6	10.000	-2.4	5.11	0.757	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.589	NO	3.4585e5	1.8722e6	50.000	0.0	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.559	NO	8.7458e5	1.8179e6	50.000	-0.4	4.96	0.966	0.0461
11	1,2,3,4,7,8-HxCDF	33.64	1.215	NO	5.0312e5	1.1332e6	50.000	1.1	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.76	1.173	NO	5.5706e5	1.2811e6	50.000	1.2	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.170	NO	5.4197e5	1.1299e6	50.000	3.2	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.22	1.168	NO	4.0244e5	9.2924e5	50.000	0.2	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	0.952	NO	3.7224e5	8.6485e5	50.000	-1.2	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.96	0.998	NO	2.5973e5	5.1183e5	50.000	0.3	6.62	1.01	0.0670
17	OCDF	41.53	0.862	NO	5.3639e5	1.3196e6	100.000	1.3	7.16	0.802	0.0575

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OCDD 41.35,263604 09.3843815  
F5 Voltage SIR\_EI+  
497.736  
3.850e+006

200429R2\_4  
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F5 Voltage SIR\_EI+  
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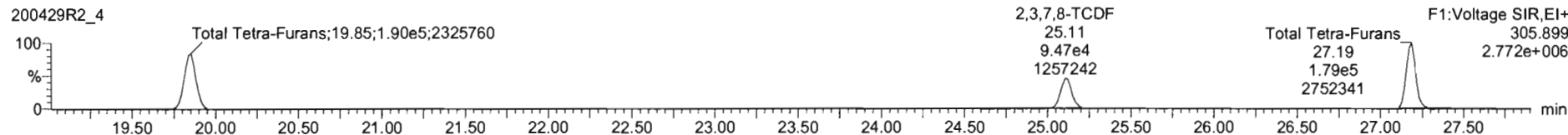
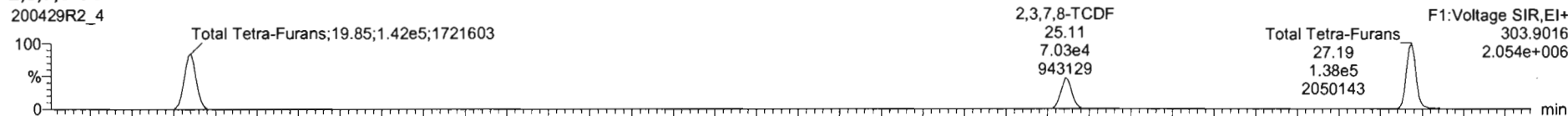
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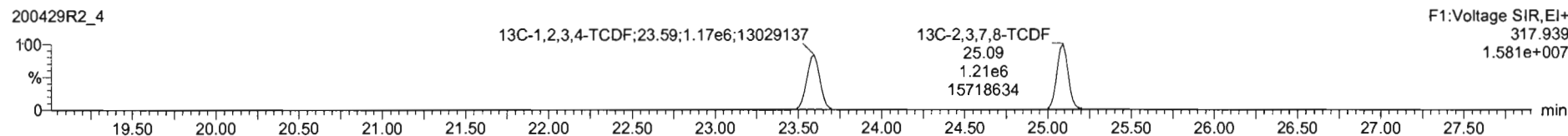
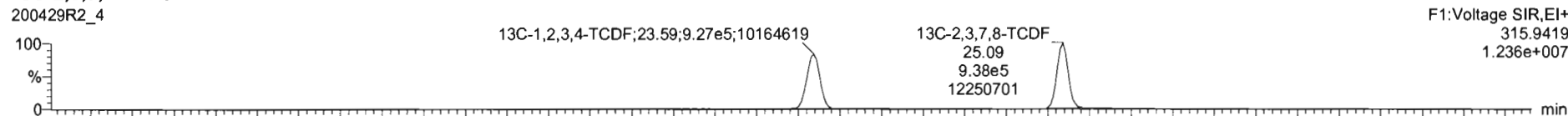
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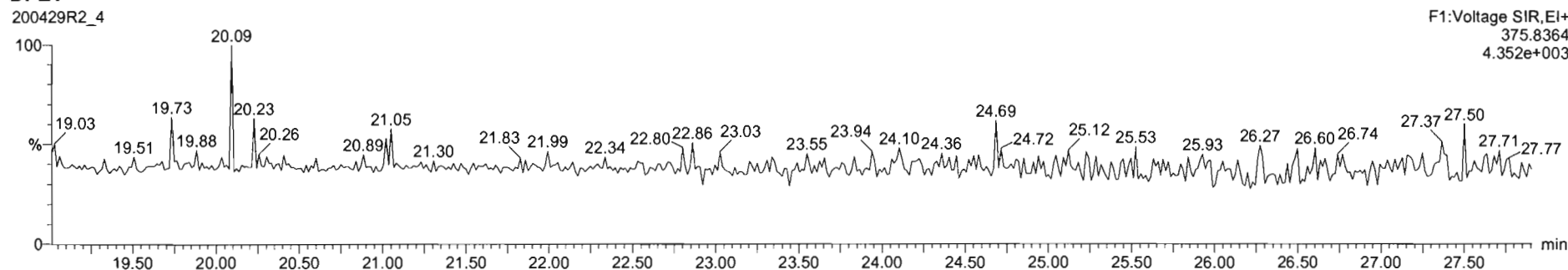
**2,3,7,8-TCDF**



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



**DPE1**



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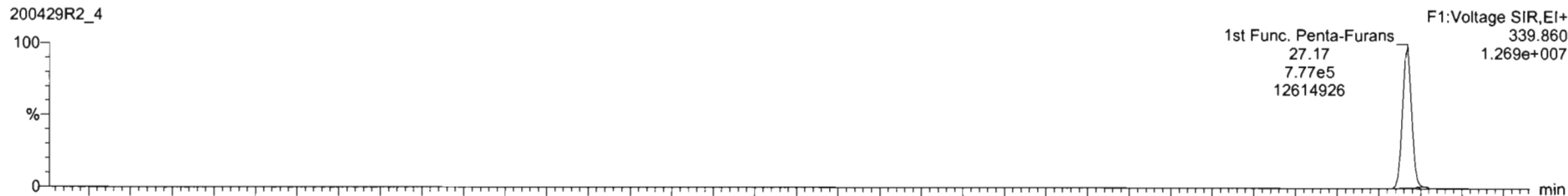
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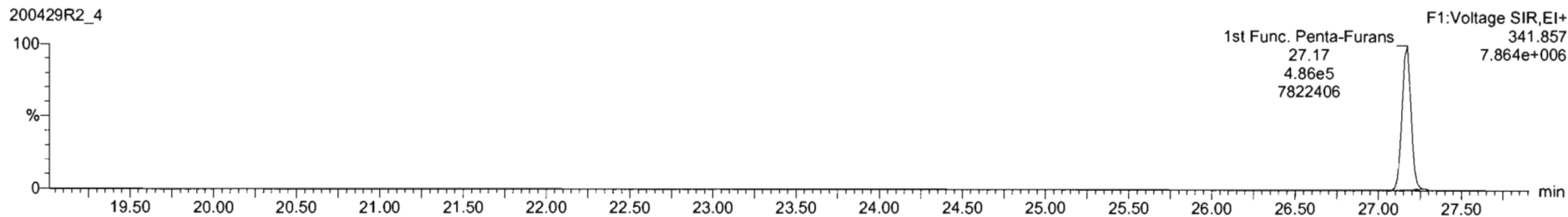
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200429R2\_4

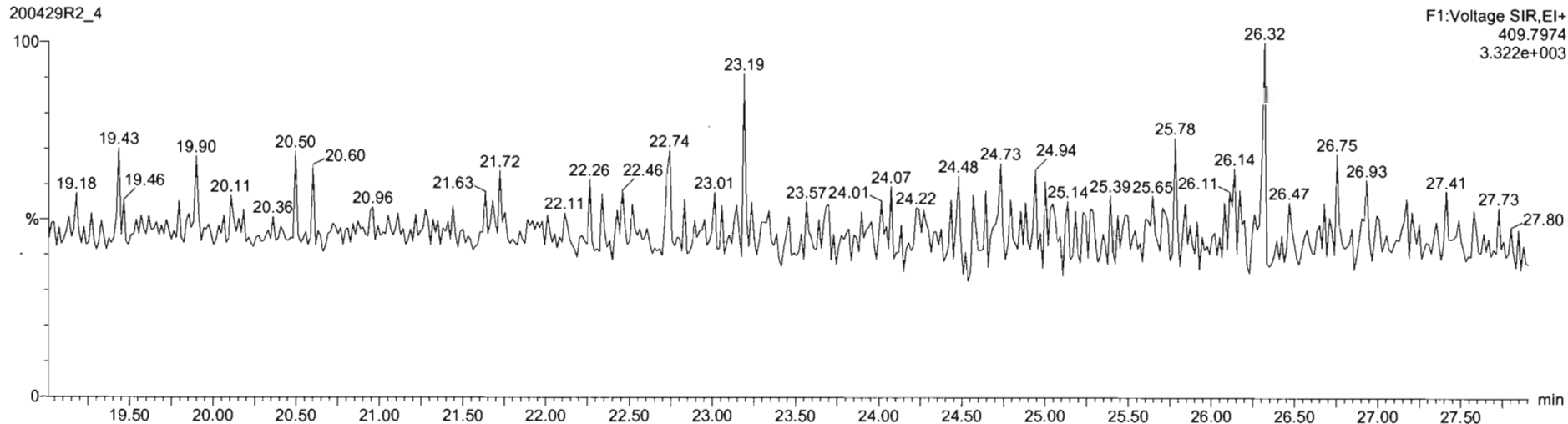


200429R2\_4



DPE6

200429R2\_4



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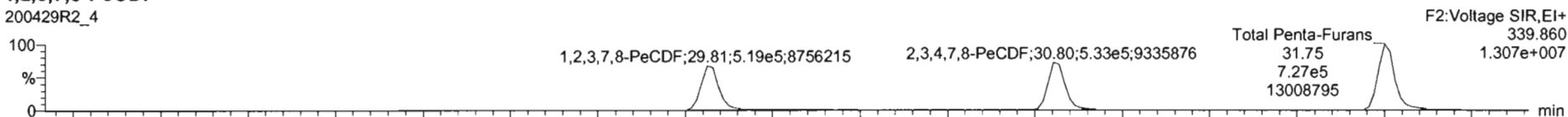
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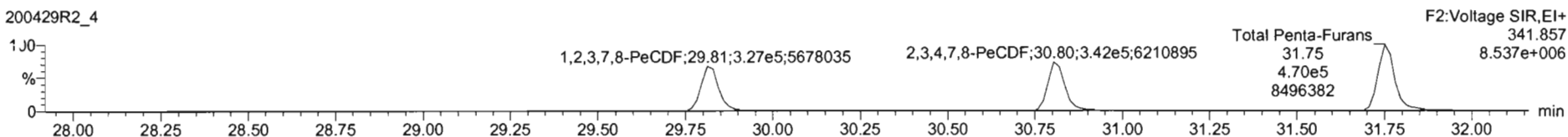
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**1,2,3,7,8-PeCDF**

200429R2\_4

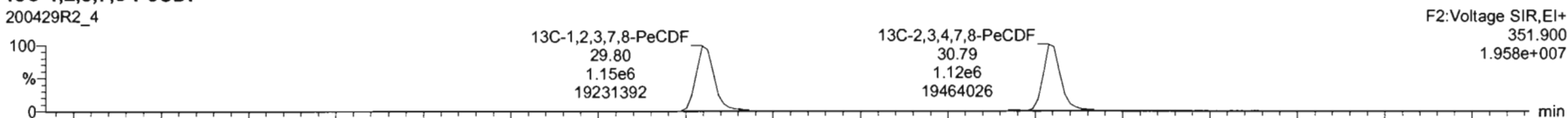


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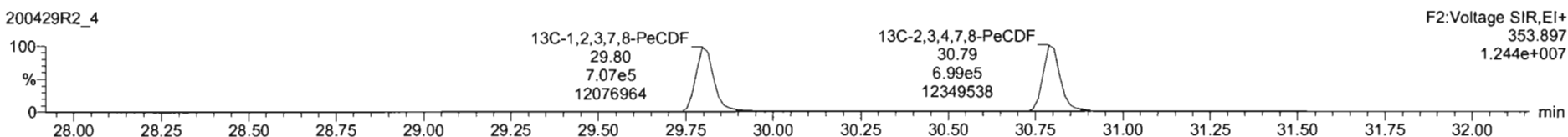


**13C-1,2,3,7,8-PeCDF**

200429R2\_4

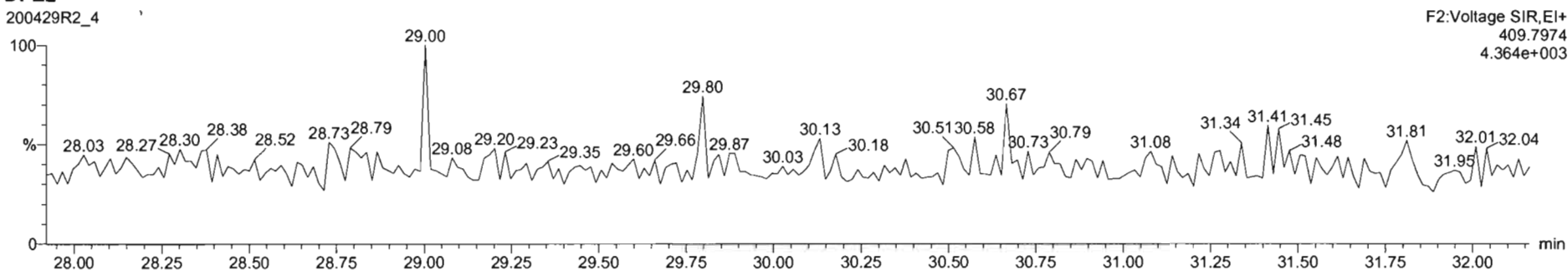


200429R2\_4



**DPE2**

200429R2\_4

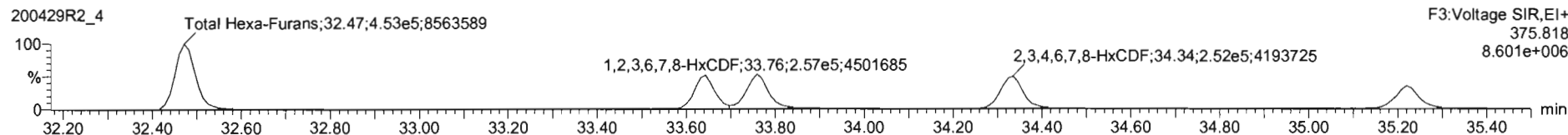
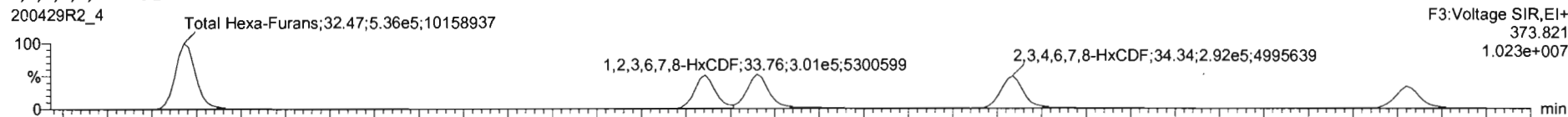


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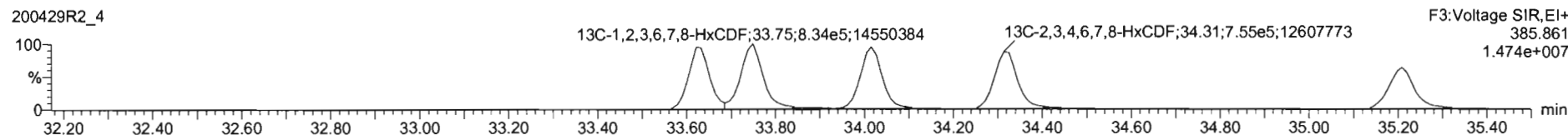
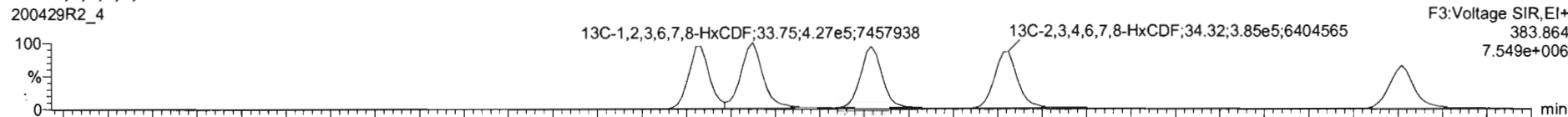
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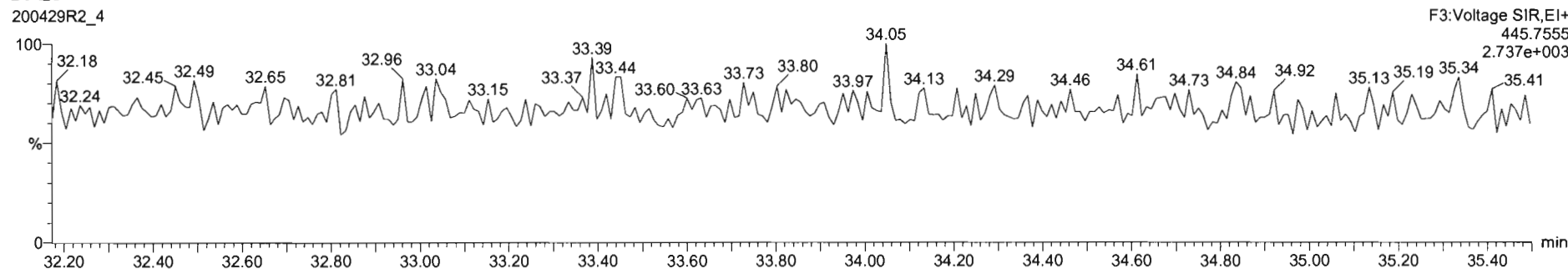
**1,2,3,4,7,8-HxCDF**



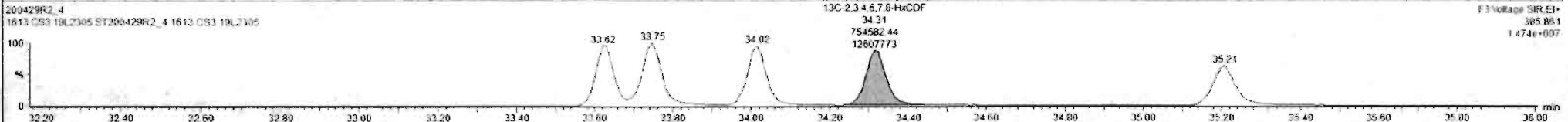
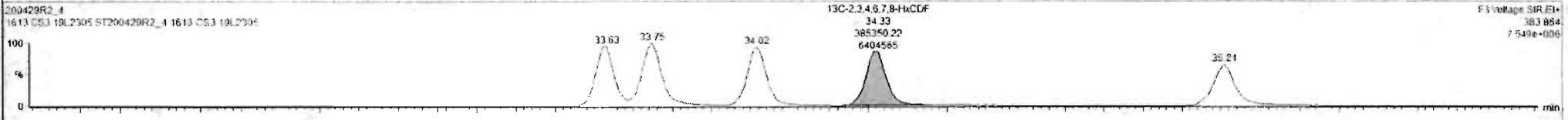
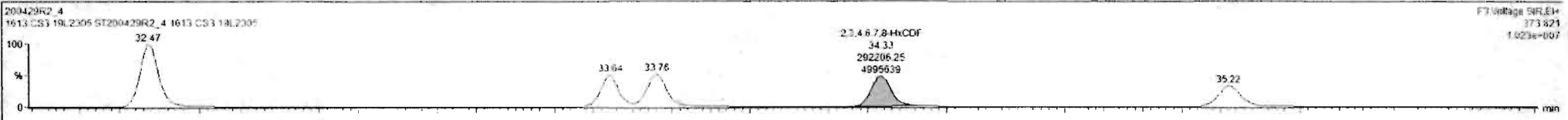
**13C-1,2,3,4,7,8-HxCDF**



**DPE3**



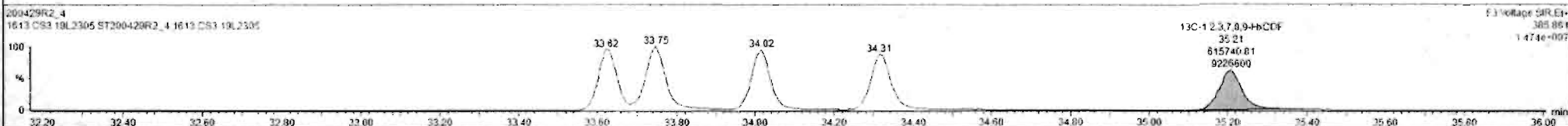
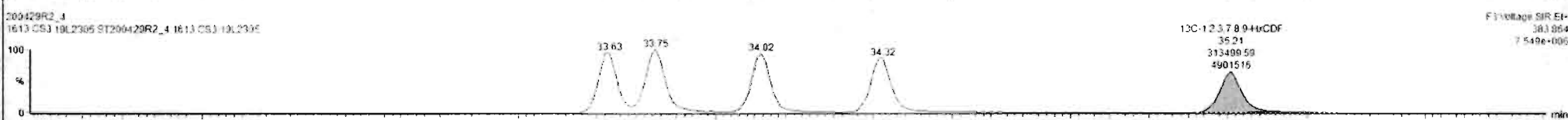
#	Name	RT	RA	yh	Area	IS Area	Std Conc	%Dev	%PSD	RRF M.L.	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.761	NO	1.4250e5	1.4920e5	10.000	0.6	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.616	NO	5.3679e5	1.1411e6	50.000	-0.2	5.51	0.942	0.0516
3	1,2,3,4,7,8-HxCDD	34.51	1.220	NO	4.4168e5	8.4850e5	50.000	-2.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.202	NO	4.8907e5	1.0790e6	50.000	-0.9	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.88	1.219	NO	4.1946e5	9.5281e5	50.000	-1.8	7.64	0.915	0.0599
6	1,2,3,4,6,7,8-HpCDD	38.36	0.988	NO	3.0769e5	6.7896e5	50.000	1.0	6.93	0.856	0.0622
7	OCDD	41.35	0.879	NO	5.6337e5	1.1777e6	100.000	2.5	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.11	0.743	NO	1.6505e5	2.1491e5	10.000	-2.4	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.089	NO	8.4785e5	1.6762e6	50.000	0.0	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.559	NO	8.7458e5	1.8179e6	50.000	-0.4	4.90	0.966	0.0461
11	1,2,3,4,7,8-HxCDF	33.64	1.215	NO	5.0312e5	1.1230e6	50.000	1.1	7.59	0.878	0.0686
12	1,2,3,6,7,8-HxCDF	33.76	1.173	NO	5.5786e5	1.2611e6	50.000	1.2	7.23	0.874	0.0652
13	2,3,4,6,7,8-HxCDF	34.33	1.171	NO	5.4192e5	1.1399e6	50.000	3.2	7.89	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.22	1.168	NO	4.0244e5	9.2924e5	50.000	0.7	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	38.97	0.952	NO	3.7224e5	6.6485e5	50.000	-1.2	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.96	0.998	NO	2.5973e5	5.1832e5	50.000	0.3	6.62	1.01	0.0670
17	OCDF	41.53	0.862	NO	5.3639e5	1.3188e6	100.000	1.3	7.16	0.802	0.0575



Custom Reporting: Select reports to generate

200429R2\_4 CAP NUM

#	Name	RT	RA	ym	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M.	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.761	NO	1.4250e5	1.4920e6	10.000	0.8	1.35	0.647	0.0507
2	1,2,3,7,8-PeCDD	21.13	0.616	NO	5.2670e5	1.1411e6	50.000	-0.2	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	24.51	1.220	NO	4.4160e5	8.4852e5	50.000	-2.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	24.80	1.202	NO	4.8027e5	1.0796e6	50.000	-0.9	6.53	0.915	0.0567
5	1,2,3,7,8,9-HxCDD	24.98	1.219	NO	4.1546e5	9.3381e5	50.000	-1.5	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	26.38	0.988	NO	2.0760e5	6.7896e5	50.000	1.0	6.92	0.856	0.0622
7	OCDD	41.25	0.879	NO	5.6337e5	1.1777e6	100.000	2.5	7.57	0.613	0.0707
8	2,3,7,8-TCDF	25.11	0.743	NO	1.6505e5	2.1491e6	10.000	-2.4	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.589	NO	8.4165e5	1.6682e6	50.000	0.0	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.20	1.559	NO	8.7458e5	1.8179e6	50.000	-0.4	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.215	NO	5.6312e5	1.1332e6	50.000	1.1	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.173	NO	5.5706e5	1.2611e6	50.000	1.2	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.23	1.170	NO	5.4197e5	1.1394e6	50.000	3.1	7.69	0.902	0.0709
14	1,2,3,7,8,9-HxCDF	35.22	1.164	NO	4.6244e5	9.2024e5	50.000	0.2	5.96	0.804	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	0.962	NO	3.7234e5	8.6485e5	50.000	-1.2	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.98	0.998	NO	2.5973e5	5.1182e5	50.000	0.3	6.82	1.01	0.0670
17	OCDF	41.53	0.862	NO	5.1650e5	1.3198e6	100.000	1.5	7.16	0.802	0.0575



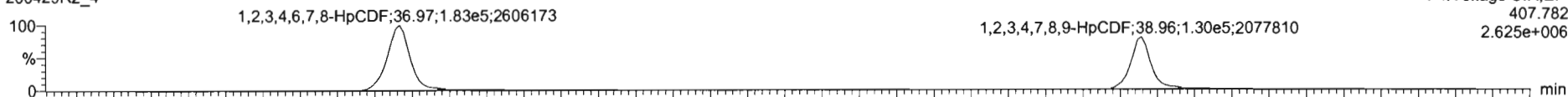
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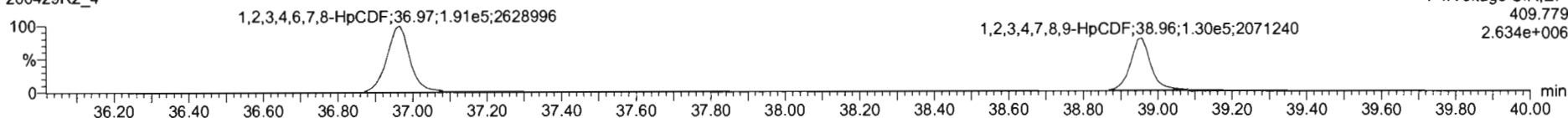
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**1,2,3,4,6,7,8-HpCDF**

200429R2\_4

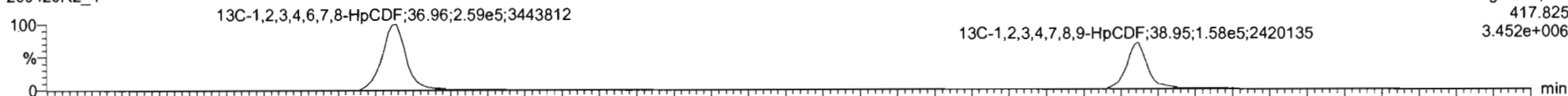


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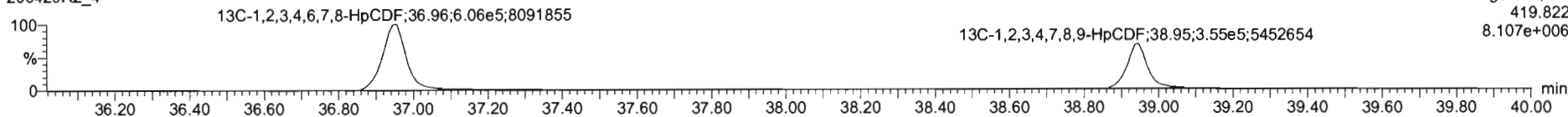


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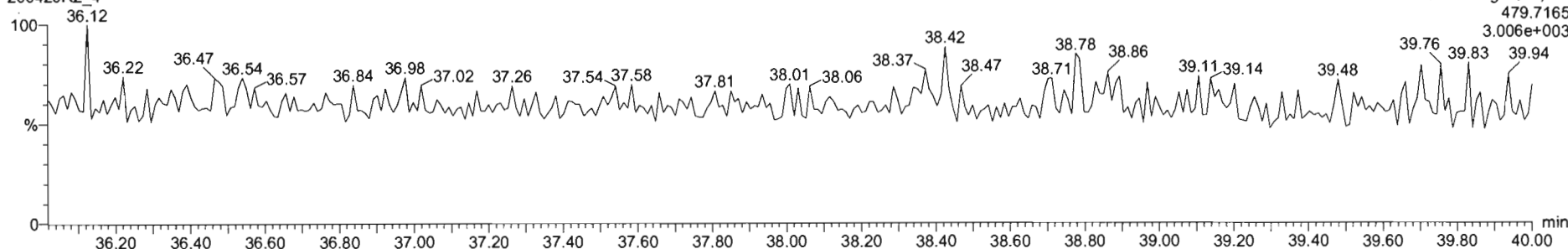


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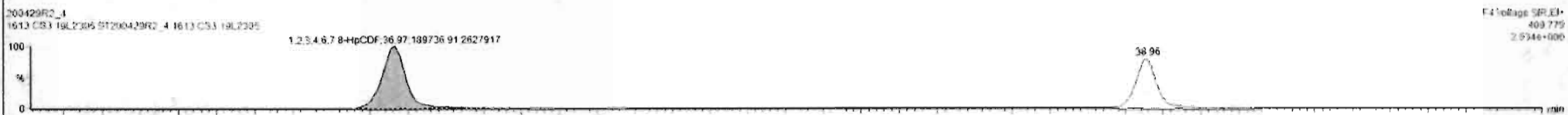
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200429R2\_4

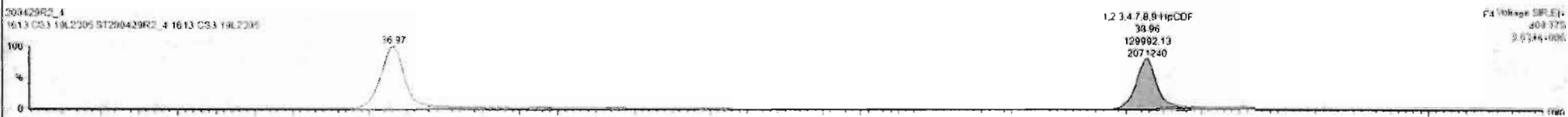
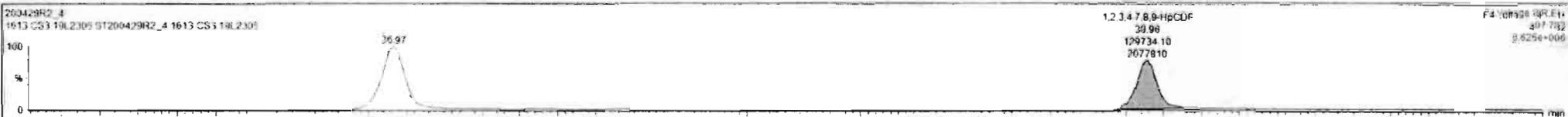




#	s	Name	RT	RA	y/n	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1	1,2,3,7,8-TCDD	26.07	0.751	NO	1.4250e5	1.4820e6	10.000	0.8	5.25	0.947	0.0587
2	2	1,2,3,7,8-PeCDD	31.13	0.616	NO	5.2679e5	1.1411e6	50.000	-0.2	5.51	0.942	0.0519
3	3	1,2,3,4,7,8-HxCDD	34.51	1.220	NO	4.4168e5	3.4852e5	50.000	-2.2	6.62	1.06	0.0704
4	4	1,2,3,6,7,8-HxCDD	34.60	1.202	NO	4.8927e5	1.6796e6	50.000	-0.9	6.53	0.915	0.0597
5	5	1,2,3,7,8,9-HxCDD	34.88	1.238	NO	4.1948e5	9.3381e5	50.000	-1.8	7.64	0.915	0.0699
6	6	1,2,3,4,6,7,8-HpCDD	36.38	0.988	NO	3.0769e5	6.7896e5	50.000	1.0	6.90	0.856	0.0622
7	7	OCDD	41.35	0.879	NO	5.6237e5	1.1777e6	100.000	2.8	7.57	0.933	0.0767
8	8	1,2,3,7,8-TCDF	25.11	0.743	NO	1.8505e5	2.1491e6	10.000	-2.4	5.11	0.767	0.0402
9	9	1,2,3,7,8-PeCDF	29.81	1.589	NO	8.4565e5	1.6562e6	50.000	0.0	5.86	0.910	0.0533
10	10	1,2,3,4,7,8-PeCDF	30.80	1.558	NO	8.7458e5	1.6179e6	50.000	-0.4	4.98	0.966	0.0461
11	11	1,2,3,4,7,8-HxCDF	33.64	1.215	NO	5.0312e5	1.1332e6	50.000	1.1	7.59	0.878	0.0668
12	12	1,2,3,6,7,8-HxCDF	33.78	1.173	NO	5.5706e5	1.2611e6	50.000	1.2	7.23	0.874	0.0632
13	13	1,2,3,4,6,7,8-HxCDF	34.33	1.170	NO	5.4191e5	1.1799e6	50.000	3.2	7.69	0.922	0.0709
14	14	1,2,3,7,8,9-HxCDF	35.22	1.168	NO	4.0244e5	9.2924e5	50.000	0.2	5.96	0.864	0.0517
15	15	1,2,3,4,6,7,8-HpCDF	36.87	0.862	NO	3.7234e5	6.6465e5	50.000	-1.2	7.54	0.871	0.0657
16	16	1,2,3,4,7,8,9-HpCDF	38.98	0.998	NO	2.5673e5	5.1182e5	50.000	0.3	6.62	1.01	0.0670
17	17	OCDF	41.53	0.862	NO	5.3639e5	1.3198e6	100.000	1.3	7.16	0.802	0.0575



#	Name	RT	RA	y/n	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.761	NO	1.4250e5	1.4920e5	10.000	0.0	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.616	NO	5.3679e5	1.1411e6	50.000	-0.2	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.220	NO	4.4168e5	8.4852e5	50.000	-2.2	6.62	1.06	0.0764
4	1,2,3,6,7,8-HxCDD	34.60	1.202	NO	4.8927e5	1.0796e6	50.000	-0.9	6.53	0.915	0.0562
5	1,2,3,7,8,9-HxCDD	34.68	1.213	NO	4.1946e5	9.3815e5	50.000	-1.6	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	36.38	0.988	NO	3.0765e5	6.7896e5	50.000	1.0	8.93	0.896	0.0622
7	OCDD	41.35	0.879	NO	5.6237e5	1.1777e6	100.000	2.5	7.57	0.933	0.0707
8	2,2,7,8-TCDF	25.11	0.743	NO	1.8505e5	2.1491e5	10.000	-2.4	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.589	NO	8.4585e5	1.6582e6	50.000	0.0	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.559	NO	8.7458e5	1.8179e6	50.000	-0.4	4.98	0.968	0.0461
11	1,2,3,4,7,8-HxCDF	33.64	1.215	NO	5.0312e5	1.1332e6	50.000	1.1	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.173	NO	5.5706e5	1.2E11e6	50.000	1.2	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.170	NO	5.4197e5	1.1999e6	50.000	3.2	7.69	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.22	1.168	NO	4.0244e5	9.2924e5	50.000	0.2	5.96	0.804	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	0.962	NO	3.7274e5	8.6485e5	50.000	-1.2	7.54	0.671	0.0657
16	1,2,3,4,7,8,9-HxCDF	38.96	0.998	NO	2.5973e5	5.1163e5	50.000	0.3	6.62	1.01	0.0670
17	OCDF	41.53	0.862	NO	5.7639e5	1.3198e6	100.000	1.3	7.16	0.802	0.0575



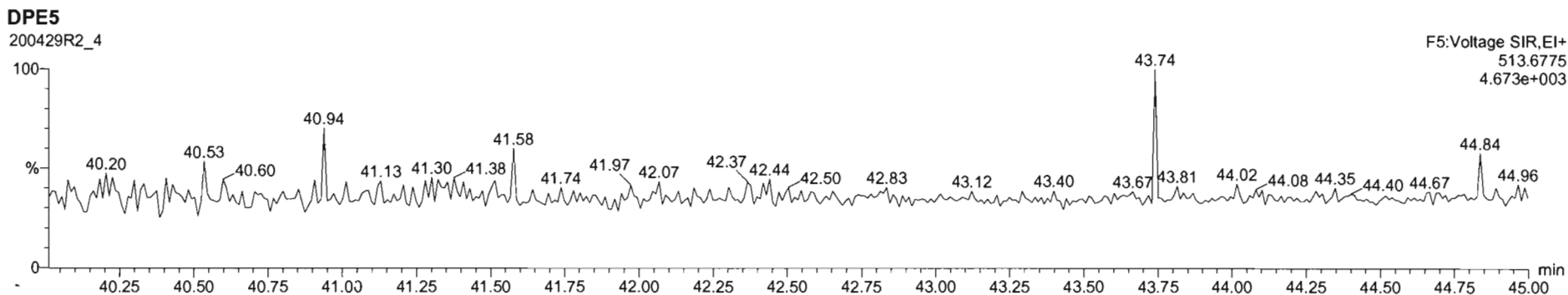
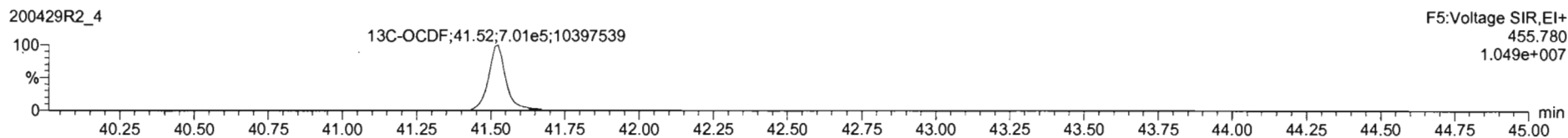
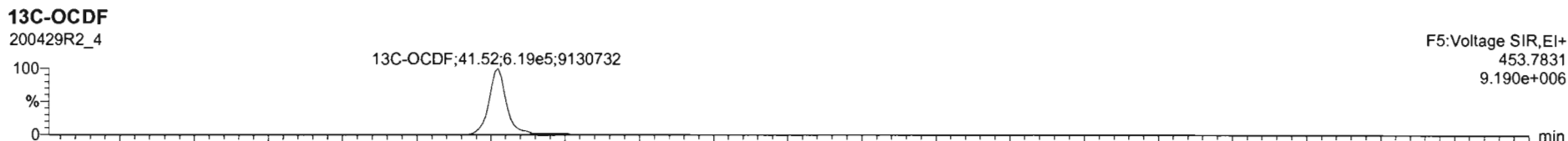
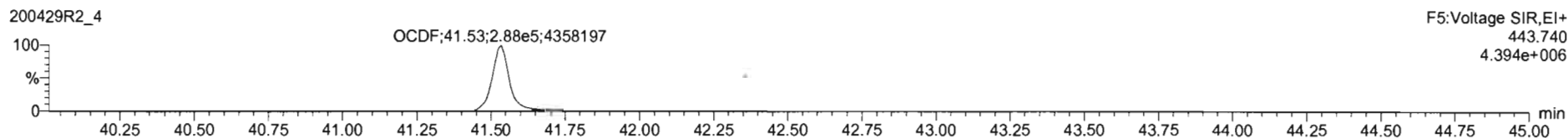
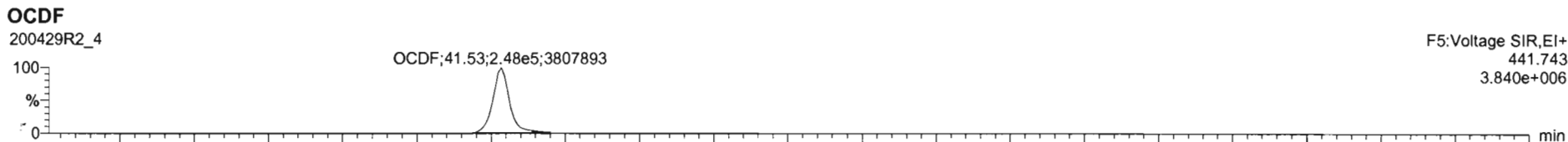
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200429R2\_4 CAP NUM

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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

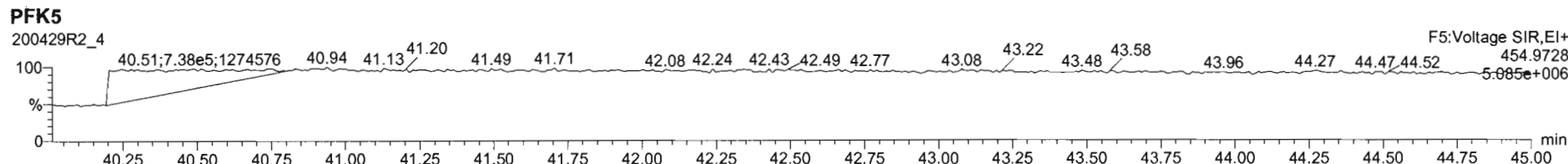
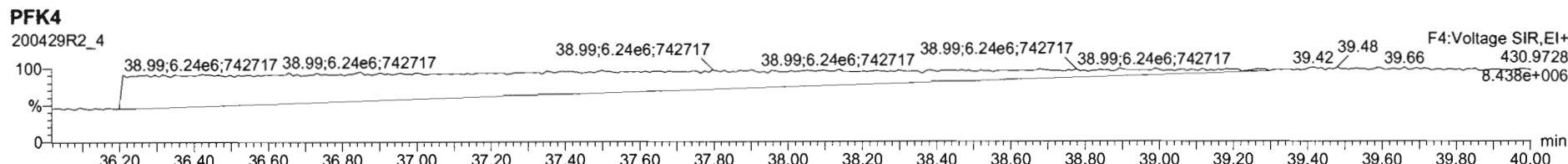
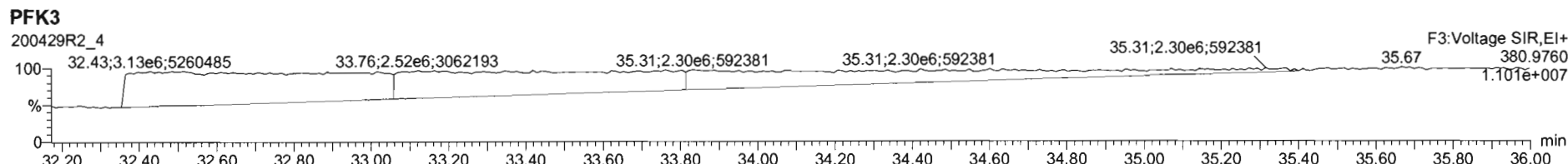
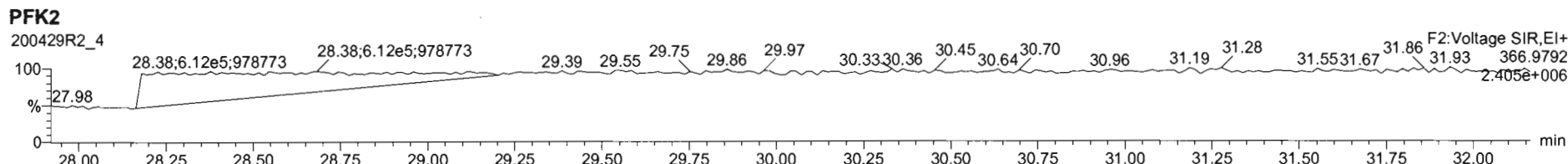
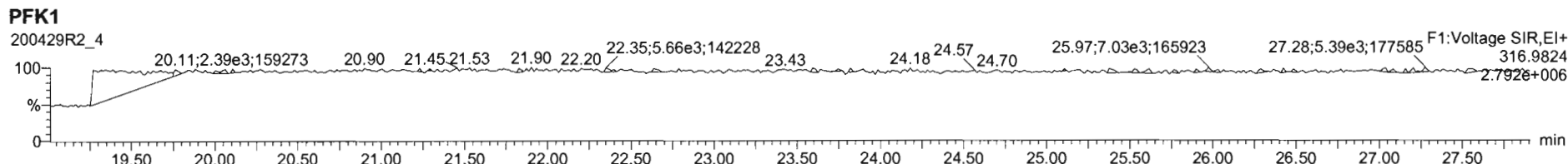
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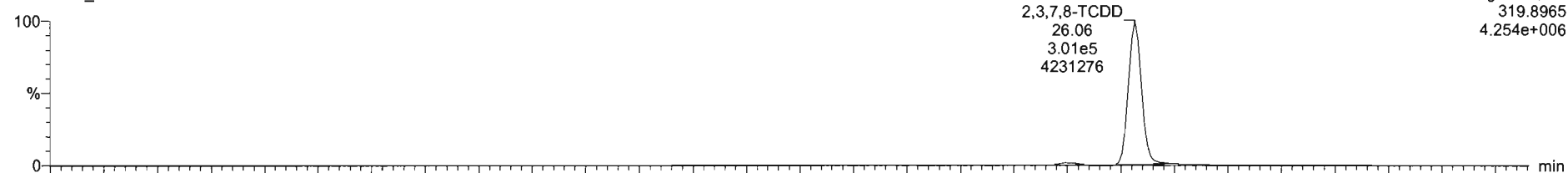
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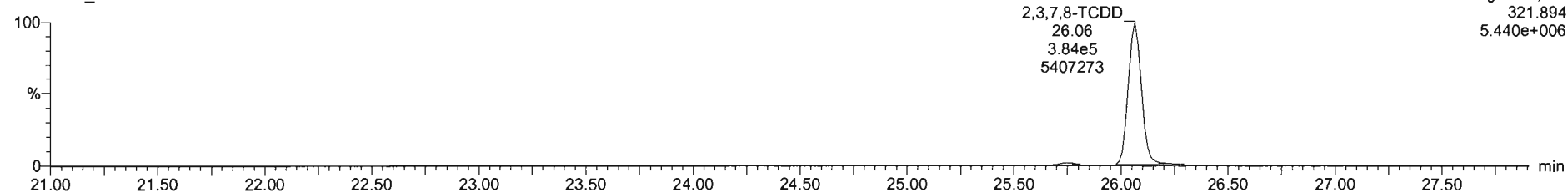
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**2,3,7,8-TCDD**

200429R2\_5

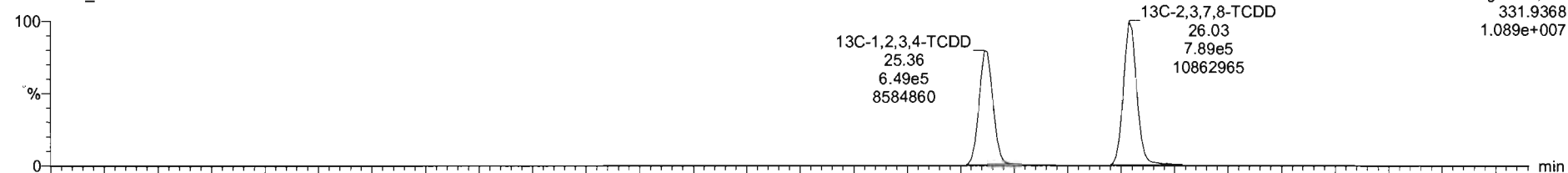


200429R2\_5

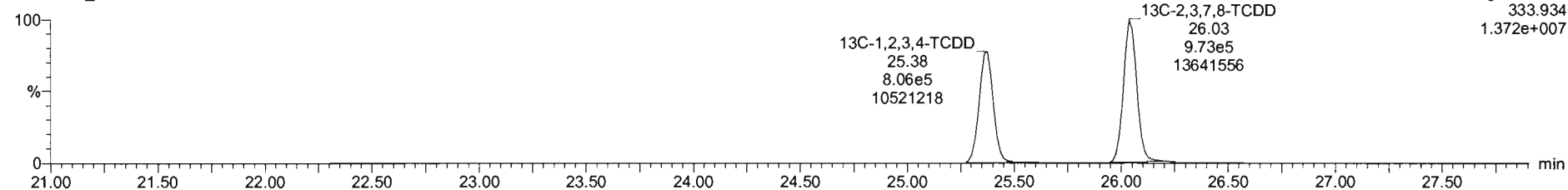


**13C-2,3,7,8-TCDD**

200429R2\_5



200429R2\_5



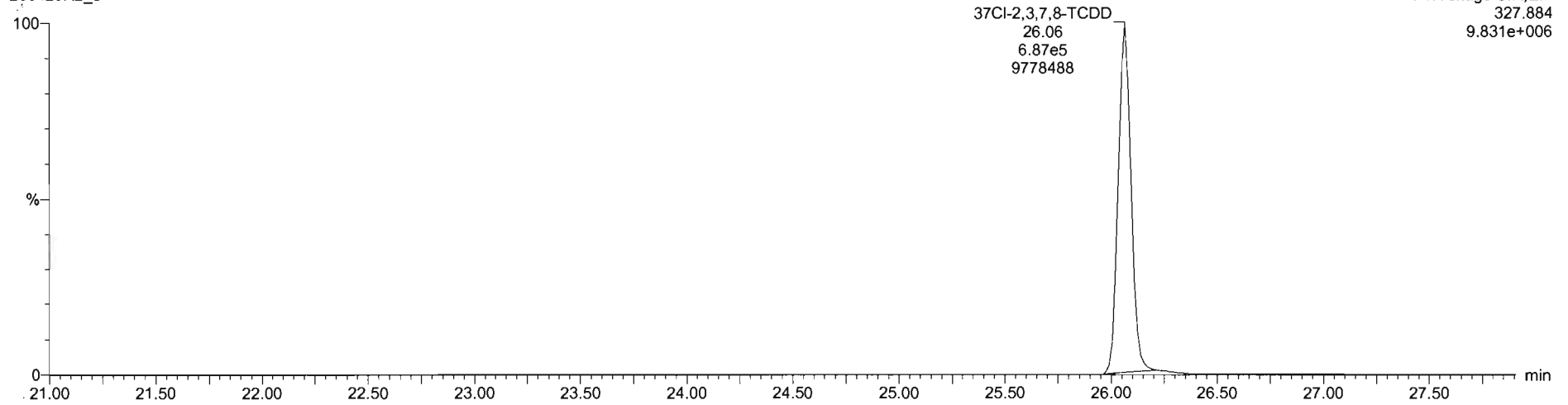
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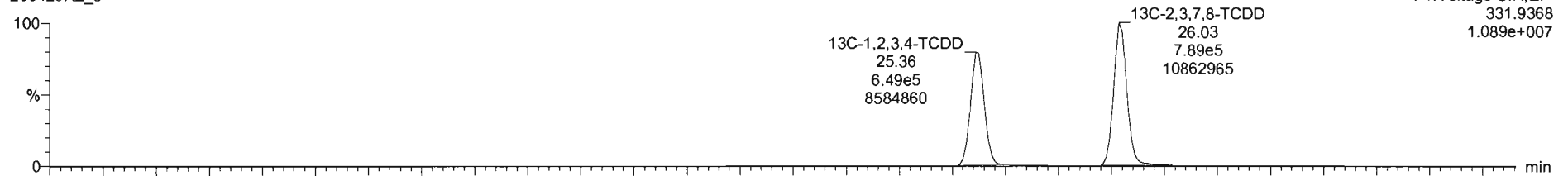
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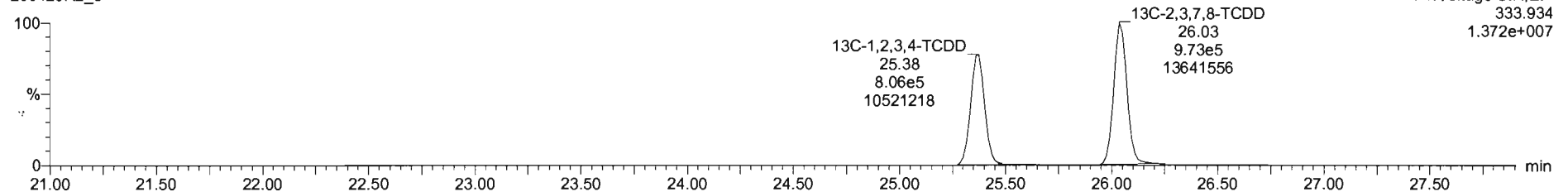


**13C-1,2,3,4-TCDD**

200429R2\_5



200429R2\_5



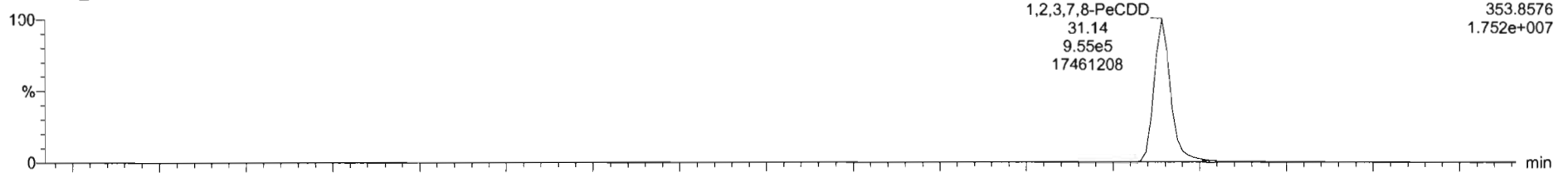
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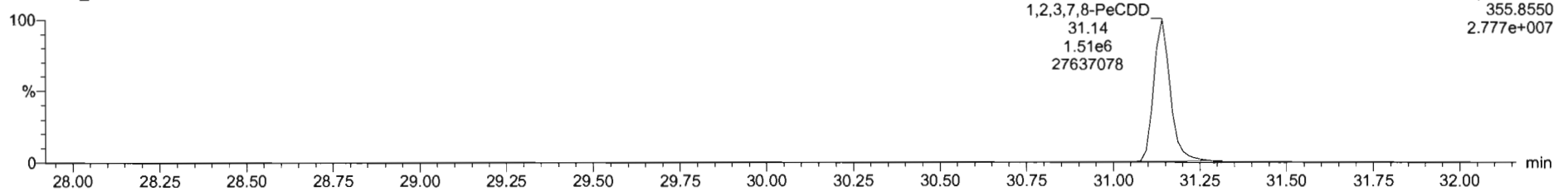
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**1,2,3,7,8-PeCDD**

200429R2\_5

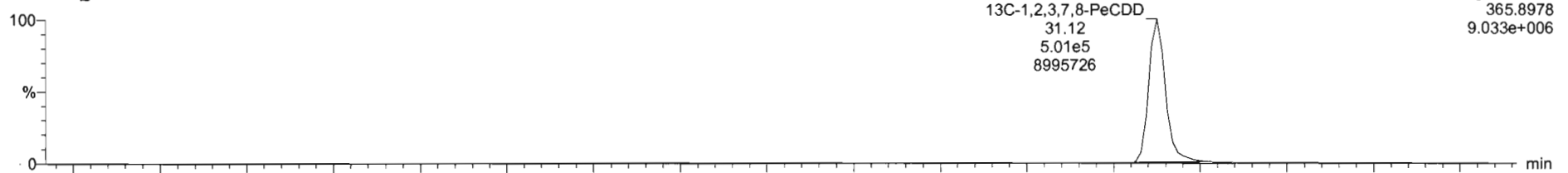


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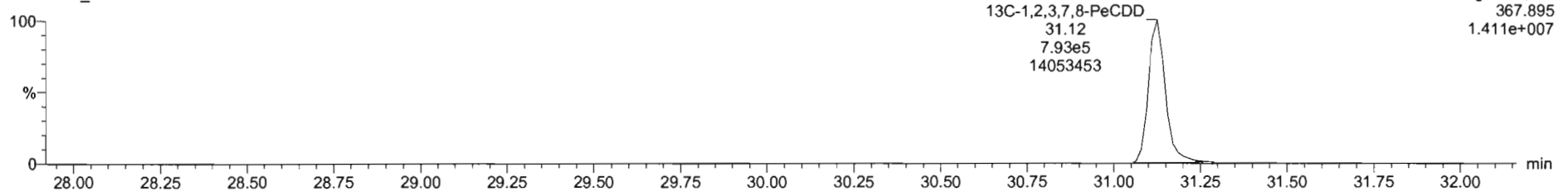


**<sup>13</sup>C-1,2,3,7,8-PeCDD**

200429R2\_5



200429R2\_5



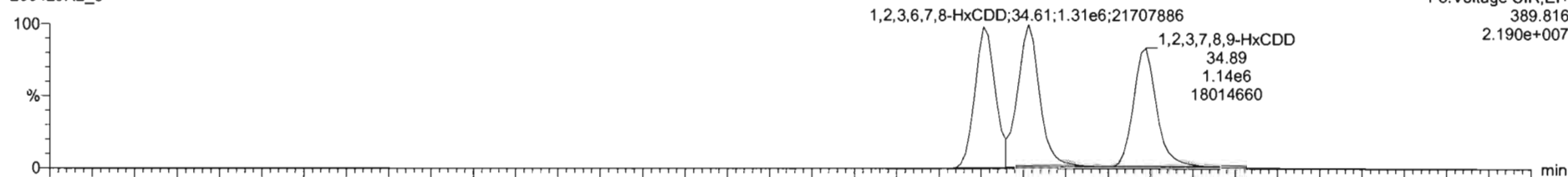
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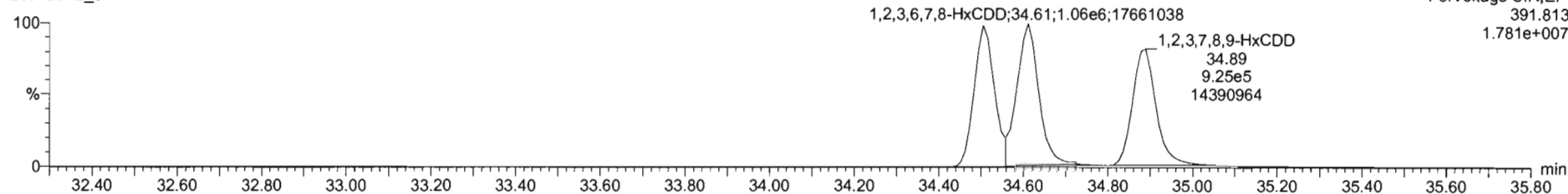
**1,2,3,4,7,8-HxCDD**

200429R2\_5



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2.190e+007

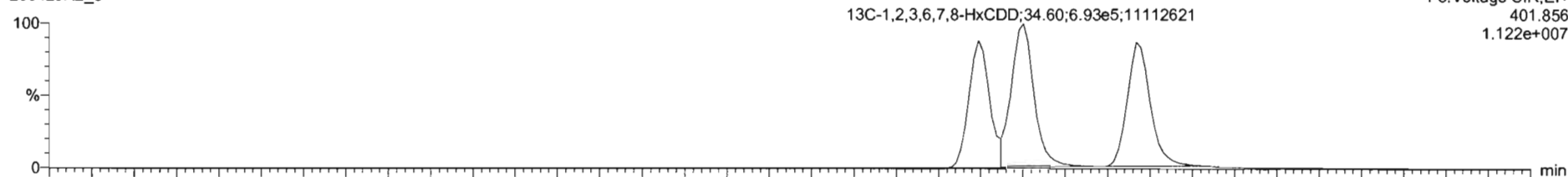
200429R2\_5



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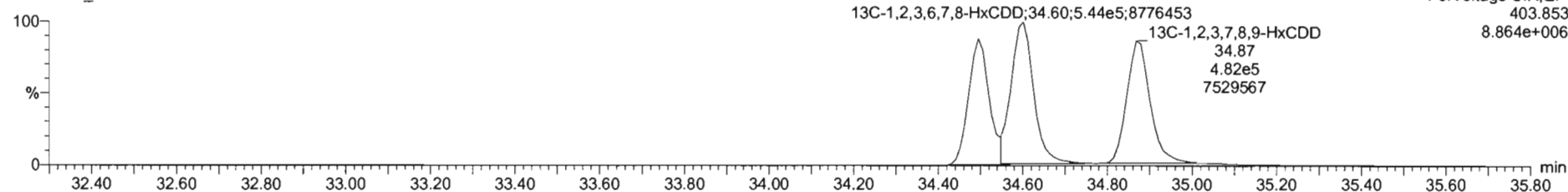
**13C-1,2,3,4,7,8-HxCDD**

200429R2\_5



F3:Voltage SIR,EI+  
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200429R2\_5



F3:Voltage SIR,EI+  
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8.864e+006



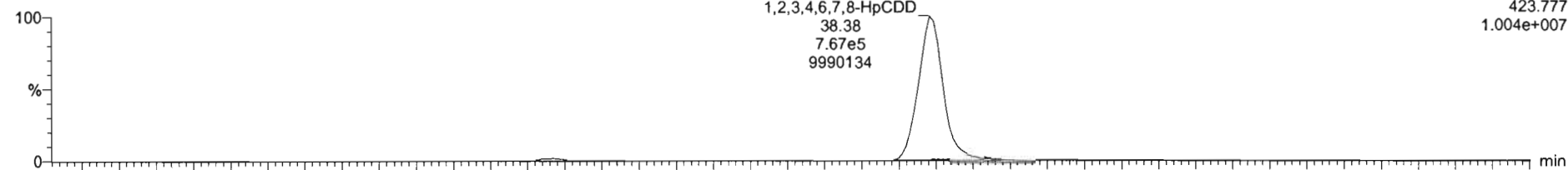
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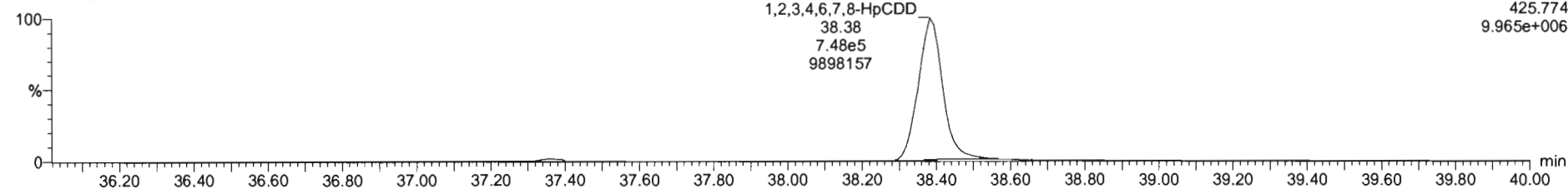
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**1,2,3,4,6,7,8-HpCDD**

200429R2\_5

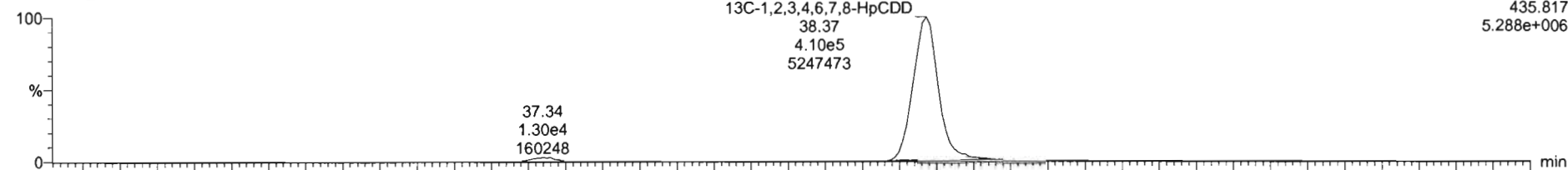


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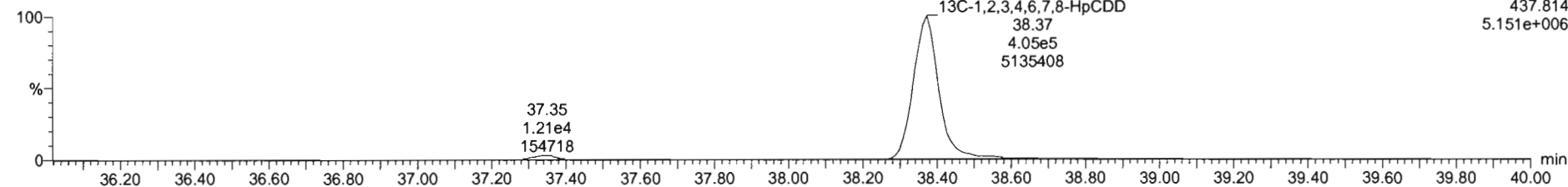


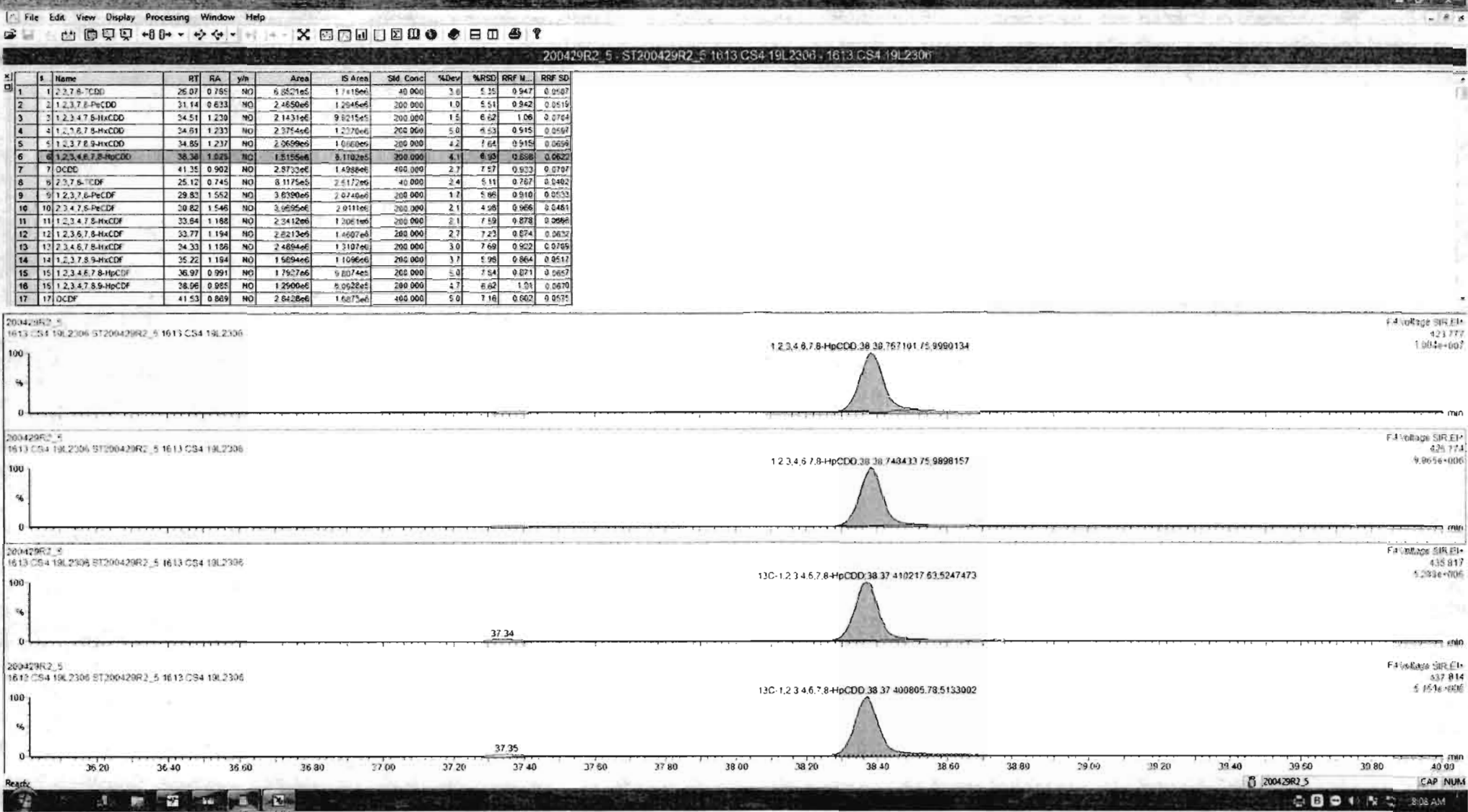
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200429R2\_5



200429R2\_5

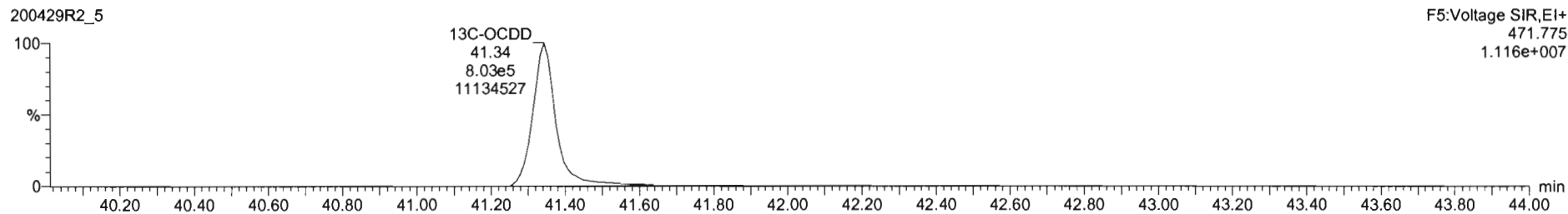
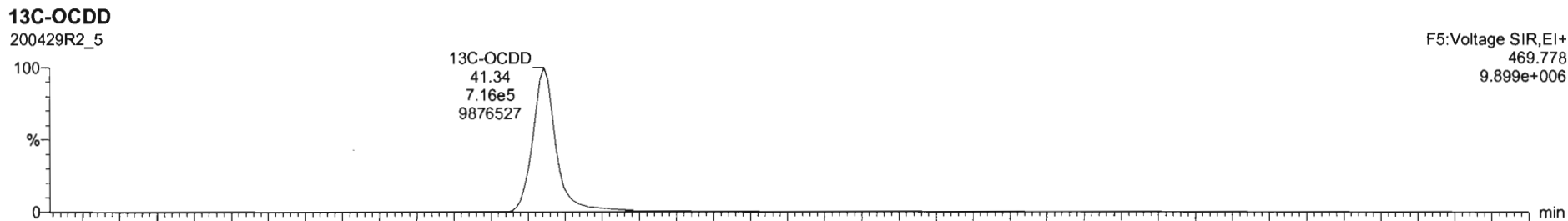
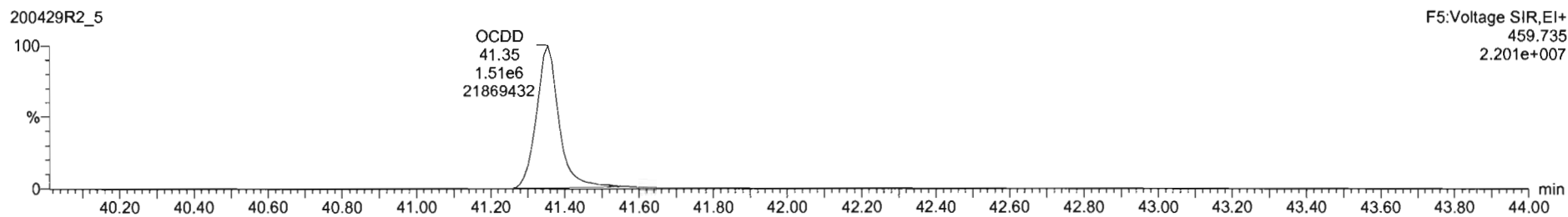
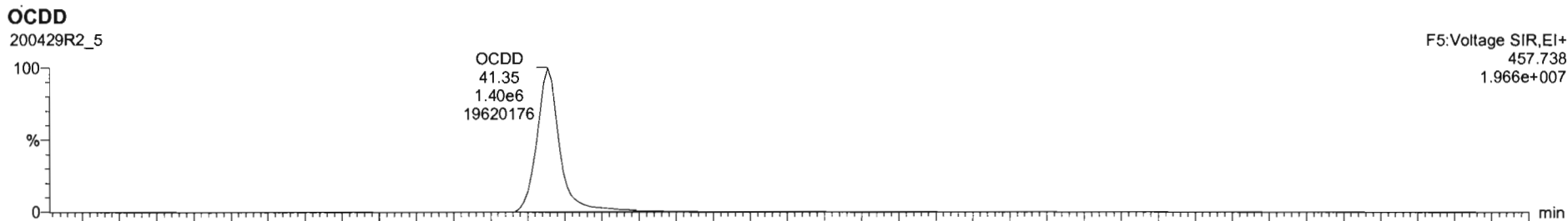




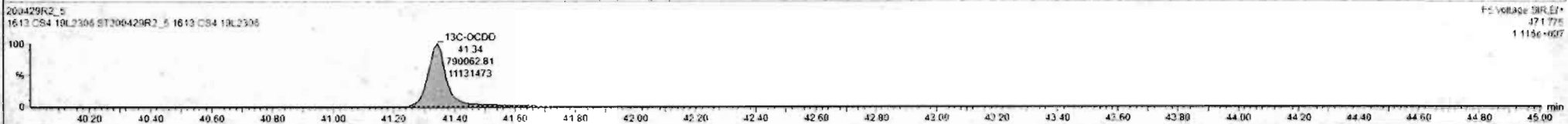
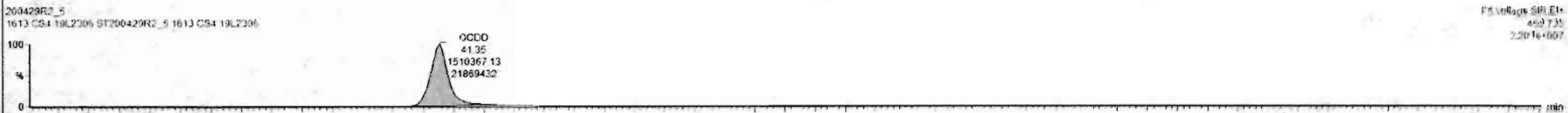
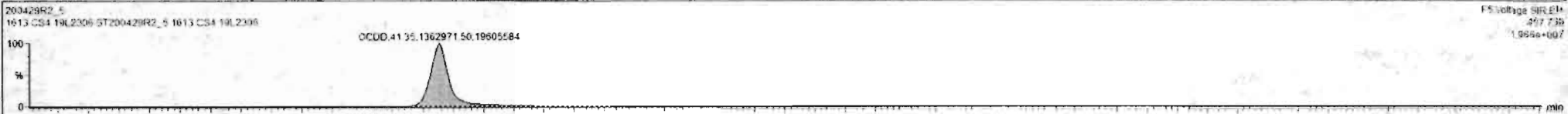
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#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M.	RRF SD
1	2,3,7,8-TCDD	28.07	0.785	NO	6.6521e5	1.7418e6	40.000	2.0	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.14	0.633	NO	2.4650e5	1.2946e6	200.000	1.0	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.230	NO	2.1431e6	9.5215e5	200.000	1.5	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.81	1.233	NO	2.3754e6	1.2270e6	200.000	5.0	6.53	0.915	0.0592
5	1,2,3,7,8,9-HxCDD	34.89	1.237	NO	2.0659e5	1.0860e5	200.000	4.2	7.64	0.915	0.0656
6	1,2,3,4,6,7,8-HpCDD	36.38	1.025	NO	1.5155e6	5.1102e5	200.000	4.1	6.92	0.856	0.0520
7	OCDD	41.35	0.962	ND	2.8733e6	1.4889e6	400.000	2.7	7.57	0.833	0.0767
8	2,3,7,8-TCDF	25.12	0.745	NO	8.1175e5	2.5172e6	40.000	2.4	5.11	0.767	0.0462
9	1,2,3,7,8-PeCDF	29.83	1.552	NO	3.6390e6	2.0740e6	200.000	1.7	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.82	1.546	NO	3.9655e6	2.0111e6	200.000	2.1	4.96	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.158	NO	2.3412e6	1.3061e6	200.000	2.1	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.77	1.194	NO	2.6213e6	1.4607e6	200.000	2.7	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.186	NO	2.4894e6	1.3107e6	200.000	3.0	7.69	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.22	1.194	NO	1.9654e6	1.1056e6	200.000	3.7	5.98	0.864	0.0512
15	1,2,3,4,6,7,8-HpCDF	36.97	0.991	NO	1.7927e6	9.8074e5	200.000	5.0	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.96	0.865	NO	1.2500e5	6.9528e5	200.000	4.7	6.62	1.01	0.0670
17	OCDF	41.53	0.869	NO	2.8428e6	1.6673e6	400.000	5.0	7.16	0.802	0.0575



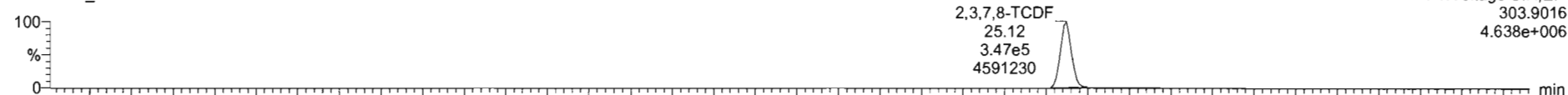
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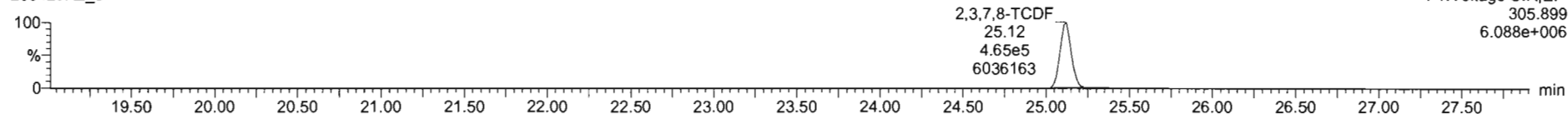
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**2,3,7,8-TCDF**

200429R2\_5

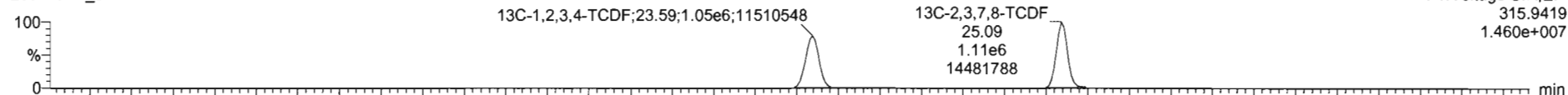


200429R2\_5

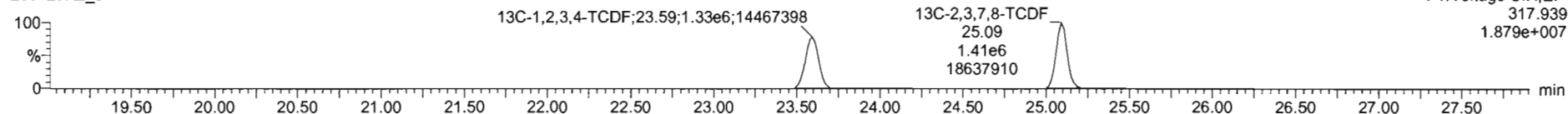


**13C-2,3,7,8-TCDF**

200429R2\_5

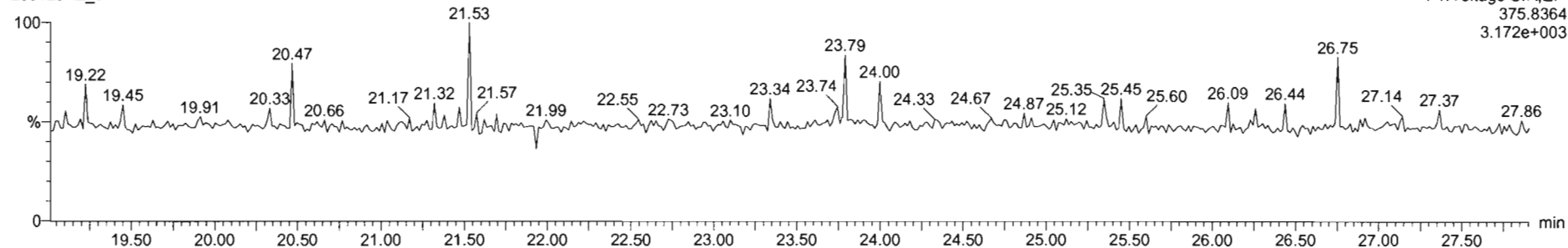


200429R2\_5



**DPE1**

200429R2\_5



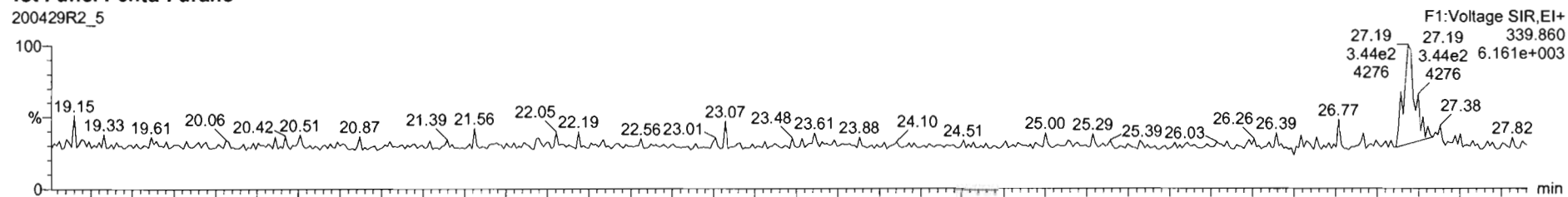
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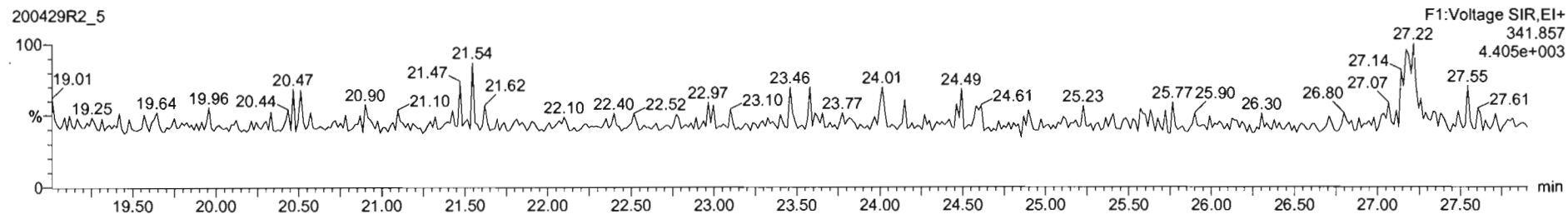
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200429R2\_5

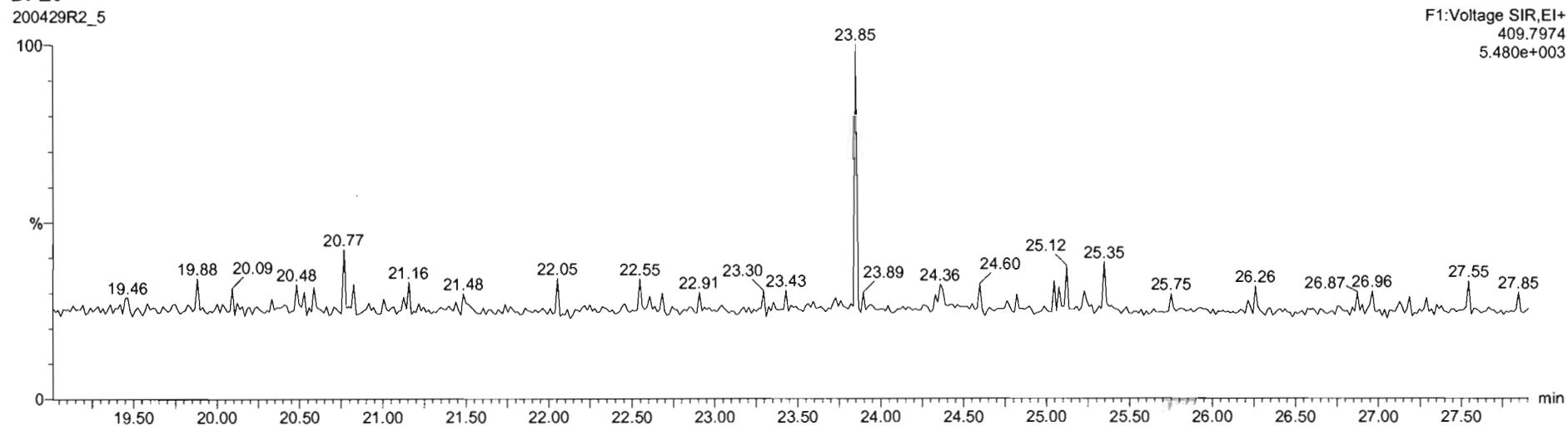


200429R2\_5



DPE6

200429R2\_5



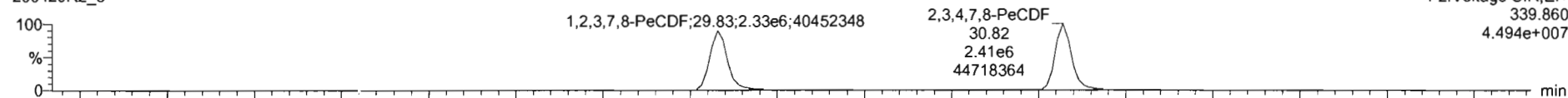
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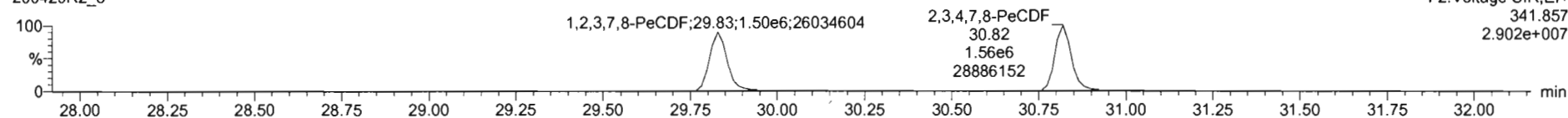
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**1,2,3,7,8-PeCDF**

200429R2\_5

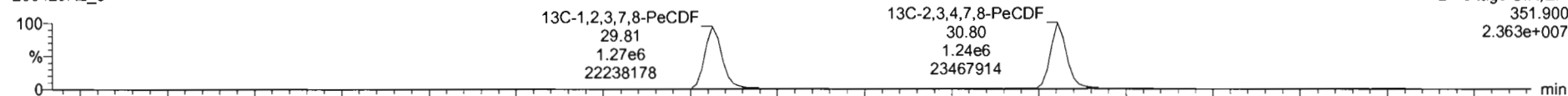


200429R2\_5

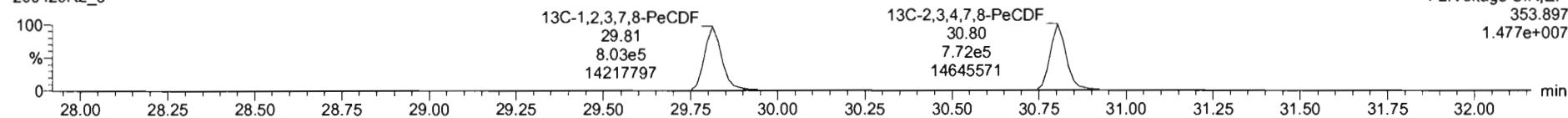


**13C-1,2,3,7,8-PeCDF**

200429R2\_5

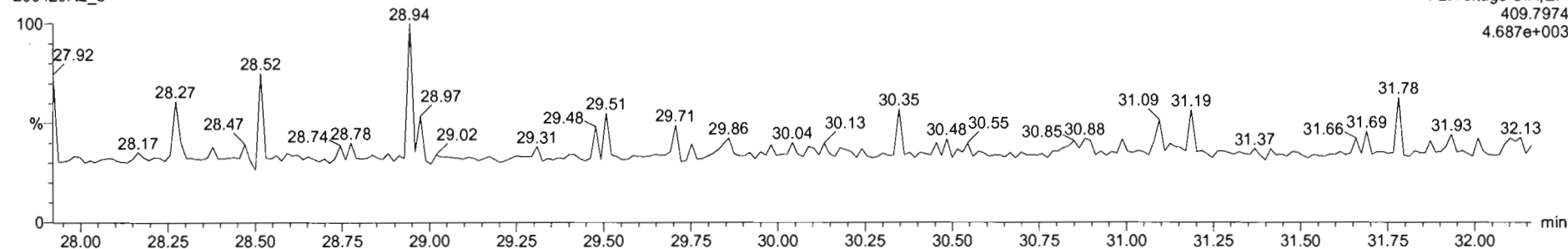


200429R2\_5



**DPE2**

200429R2\_5



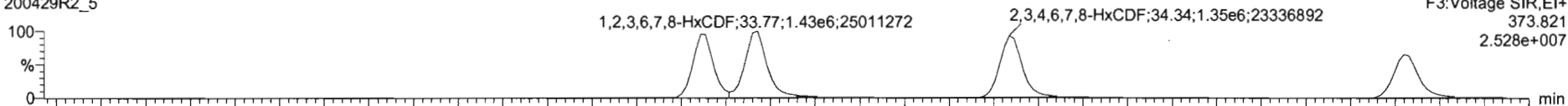
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

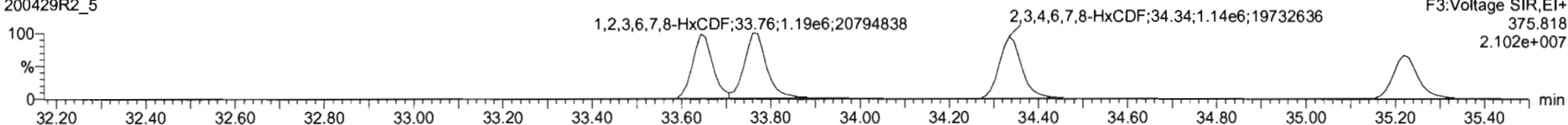
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**1,2,3,4,7,8-HxCDF**

200429R2\_5

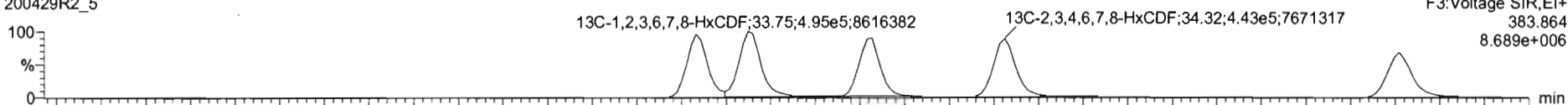


200429R2\_5

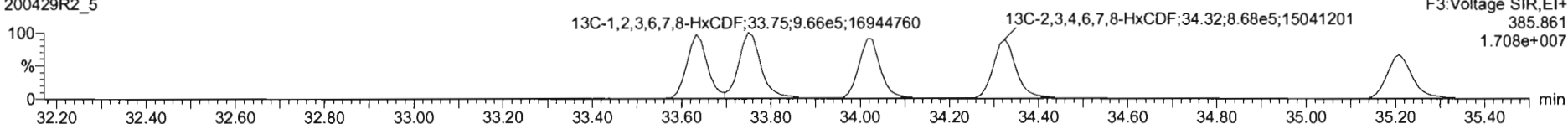


**13C-1,2,3,4,7,8-HxCDF**

200429R2\_5

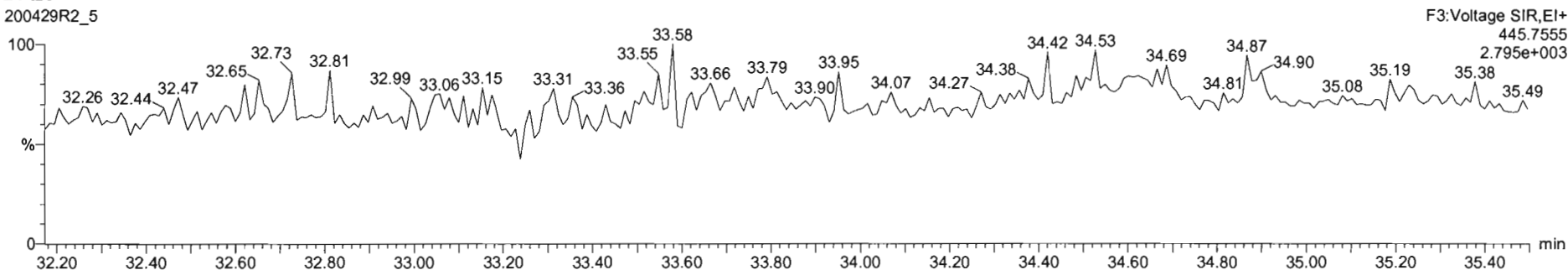


200429R2\_5



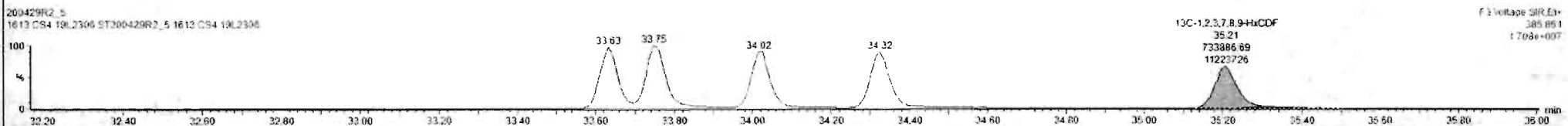
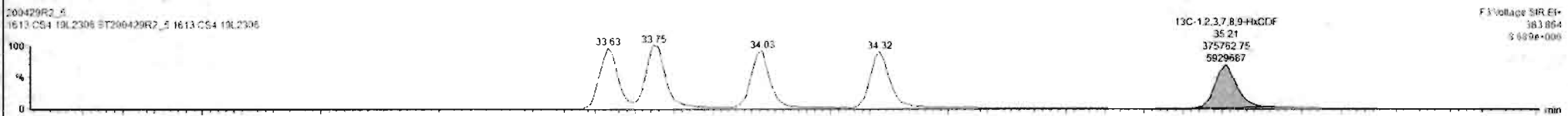
**DPE3**

200429R2\_5





#	Name	RT	RA	yh	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.97	0.785	NO	6.6521e5	1.7418e6	40.000	2.6	5.25	0.947	0.0597
2	1,2,3,7,8-PeCDD	31.14	0.633	NO	2.4650e6	1.2646e6	200.000	1.0	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.230	NO	2.1431e6	9.9215e5	200.000	1.5	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.61	1.233	NO	2.3754e6	1.2270e6	200.000	5.0	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.69	1.237	NO	2.0699e6	1.0860e6	200.000	4.2	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	36.38	1.025	NO	1.5155e6	5.1102e5	200.000	4.1	8.93	0.896	0.0622
7	OCDD	41.35	0.902	NO	2.8733e6	1.4986e6	400.000	2.7	7.57	0.933	0.0767
8	2,3,7,8-TCDF	25.12	0.745	NO	3.1175e5	2.5172e5	40.000	2.4	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.82	1.552	NO	3.6390e6	2.0740e6	200.000	1.7	5.86	0.910	0.0523
10	2,3,4,7,8-PeCDF	30.82	1.546	NO	3.9695e6	2.0111e6	200.000	2.1	4.98	0.966	0.0461
11	1,2,3,4,7,8-HxCDF	33.64	1.188	NO	2.2412e6	1.2061e6	200.000	2.1	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.77	1.194	NO	2.6213e6	1.4607e6	200.000	2.7	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.196	NO	2.4894e6	1.3107e6	200.000	3.0	7.69	0.922	0.0769
14	1,2,3,7,8,9-HxCDF	35.22	1.194	NO	4.9094e6	1.1096e6	200.000	3.7	5.28	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	0.991	NO	1.7927e6	9.8074e5	200.000	5.0	7.54	0.671	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.96	0.885	NO	1.2900e6	6.6628e5	200.000	4.7	6.62	1.01	0.0670
17	OCDF	41.53	0.869	NO	2.8428e6	1.6675e6	400.000	5.0	7.16	0.802	0.0575



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200429R2\_5 CAP NUM

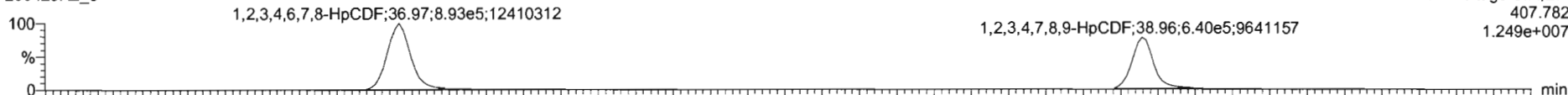
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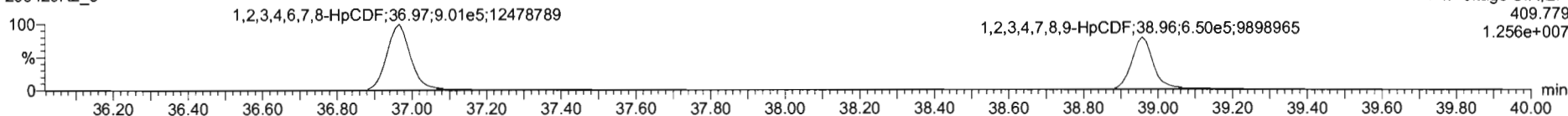
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**1,2,3,4,6,7,8-HpCDF**

200429R2\_5

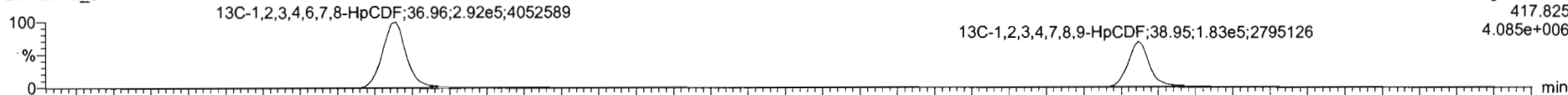


200429R2\_5

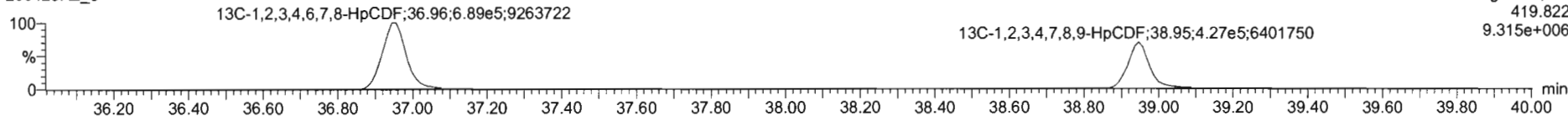


**13C-1,2,3,4,6,7,8-HpCDF**

200429R2\_5

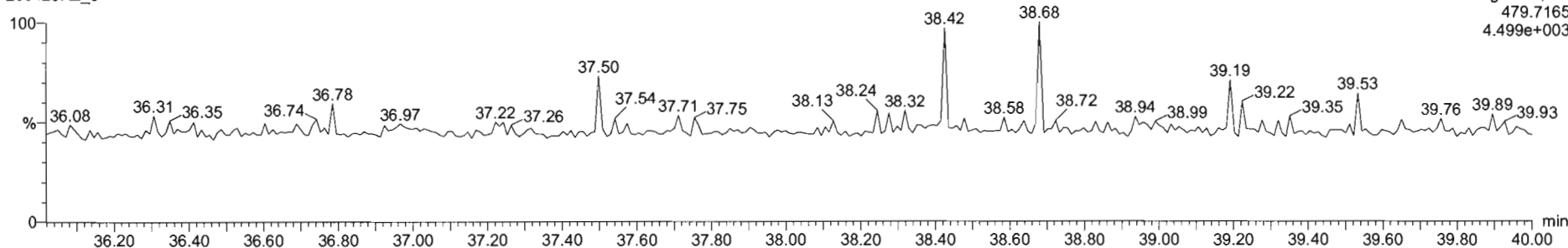


200429R2\_5



**DPE4**

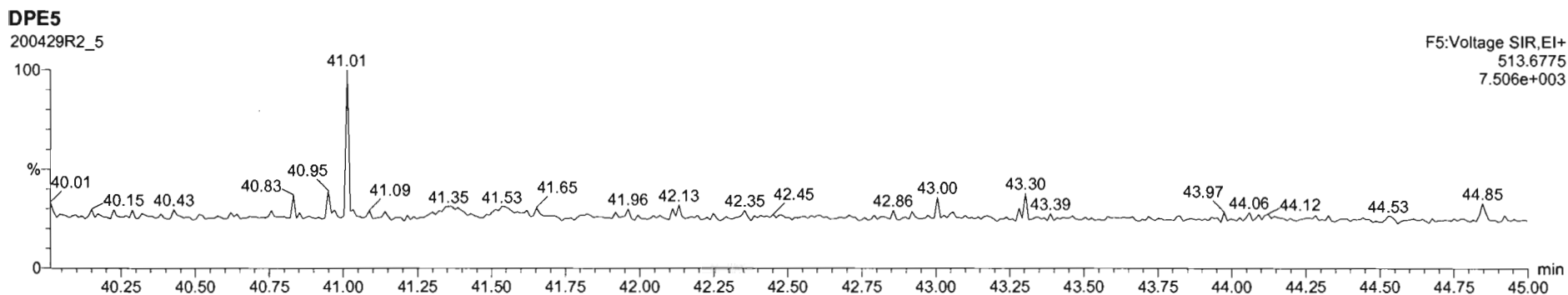
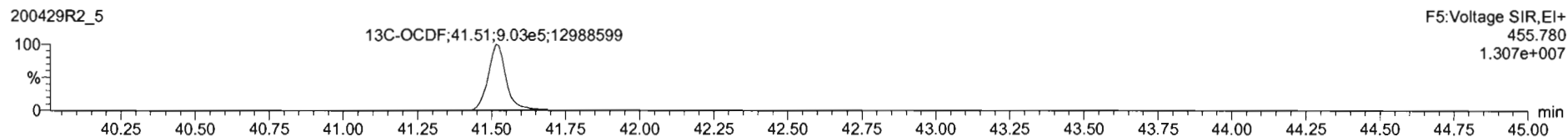
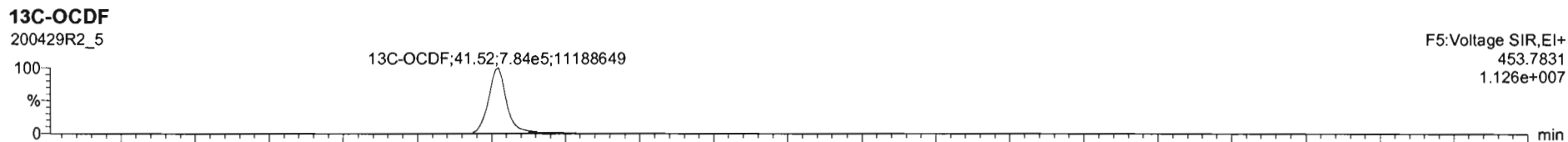
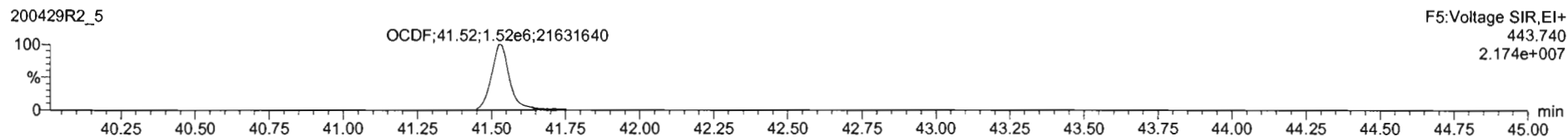
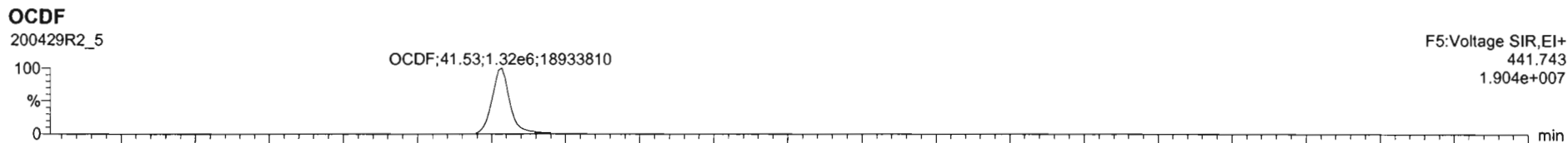
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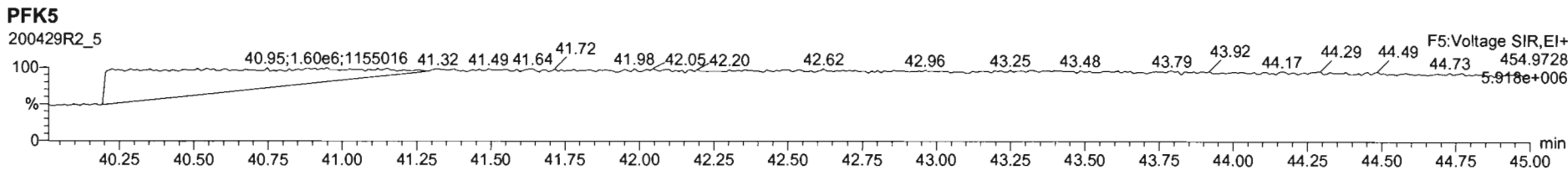
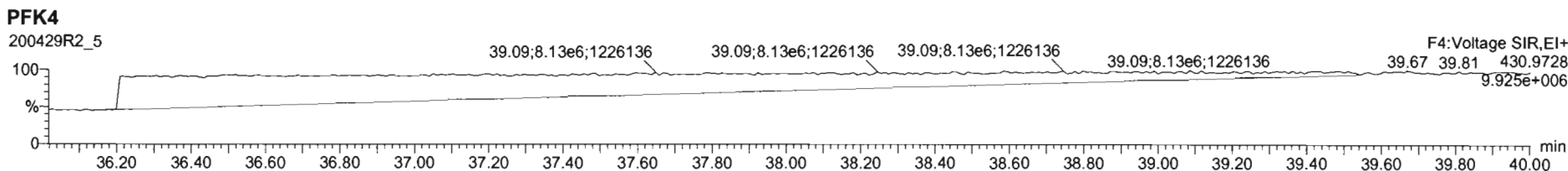
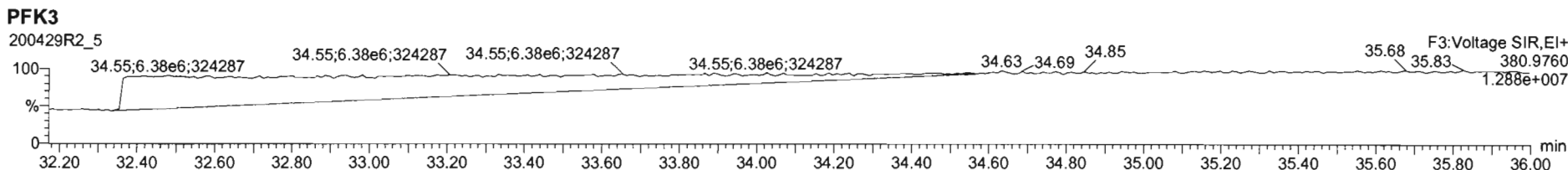
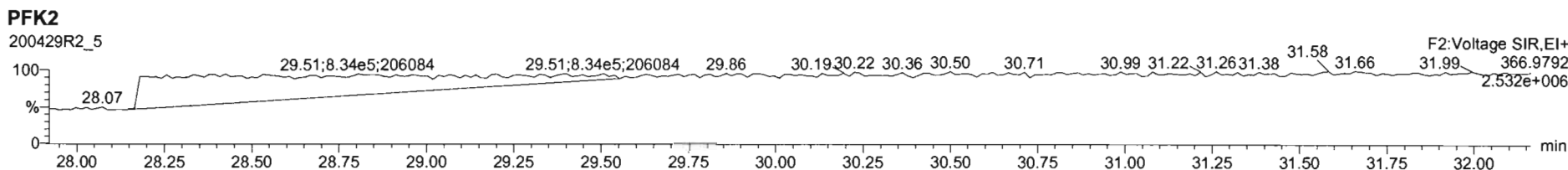
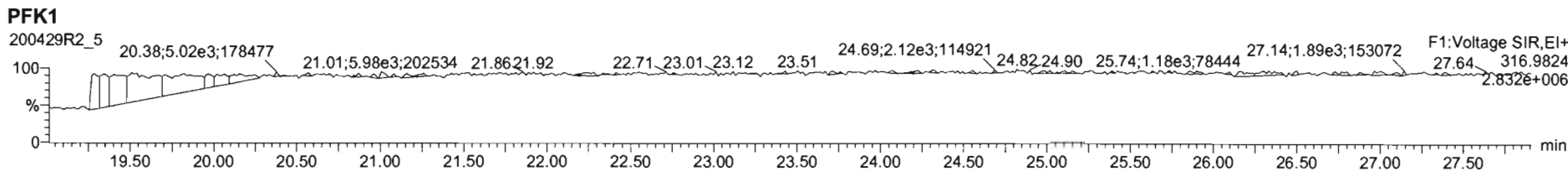
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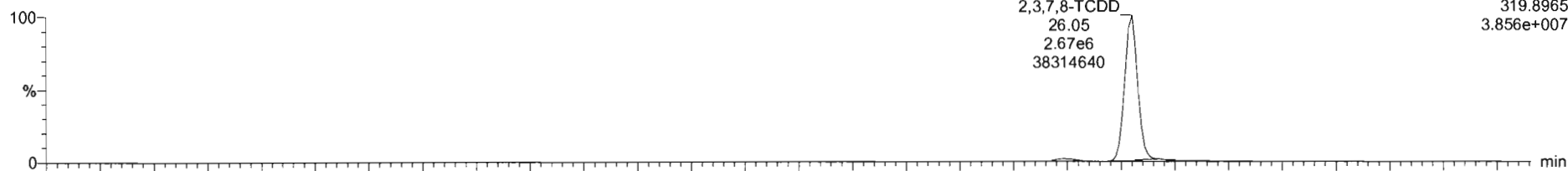
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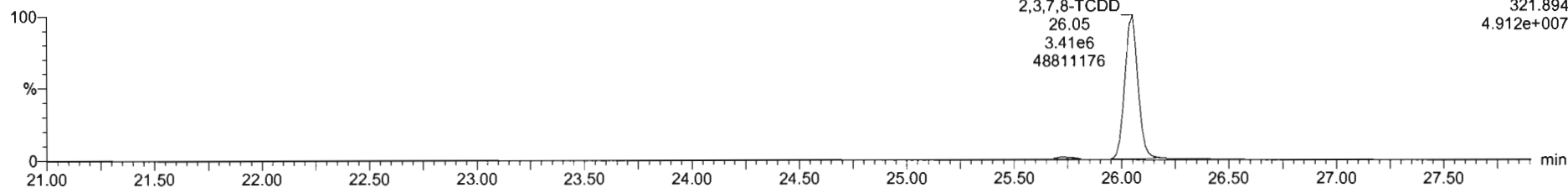
**2,3,7,8-TCDD**

200429R2\_6



F1:Voltage SIR,EI+  
319.8965  
3.856e+007

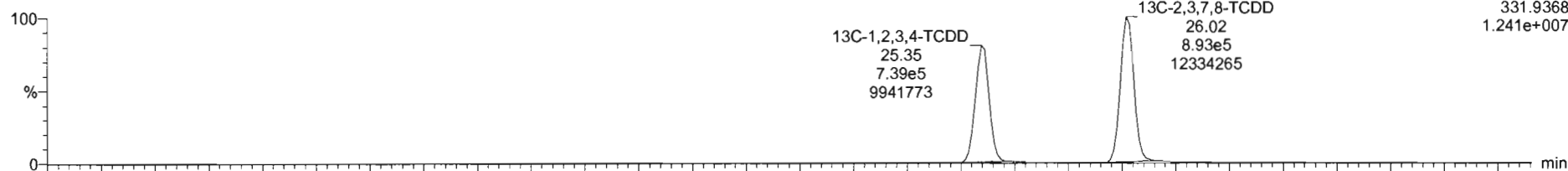
200429R2\_6



F1:Voltage SIR,EI+  
321.894  
4.912e+007

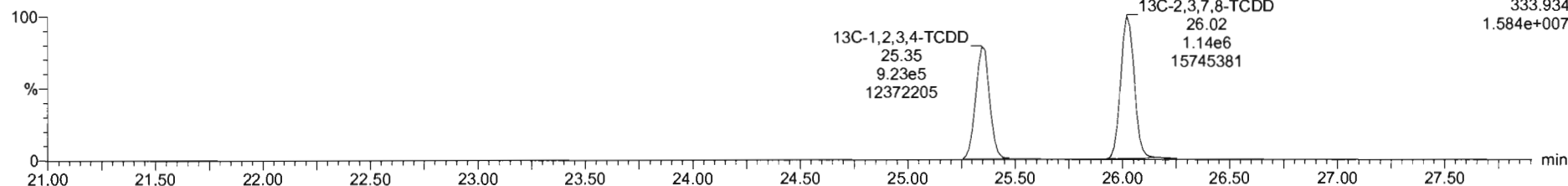
**13C-2,3,7,8-TCDD**

200429R2\_6



F1:Voltage SIR,EI+  
331.9368  
1.241e+007

200429R2\_6



F1:Voltage SIR,EI+  
333.934  
1.584e+007

Dataset: Untitled

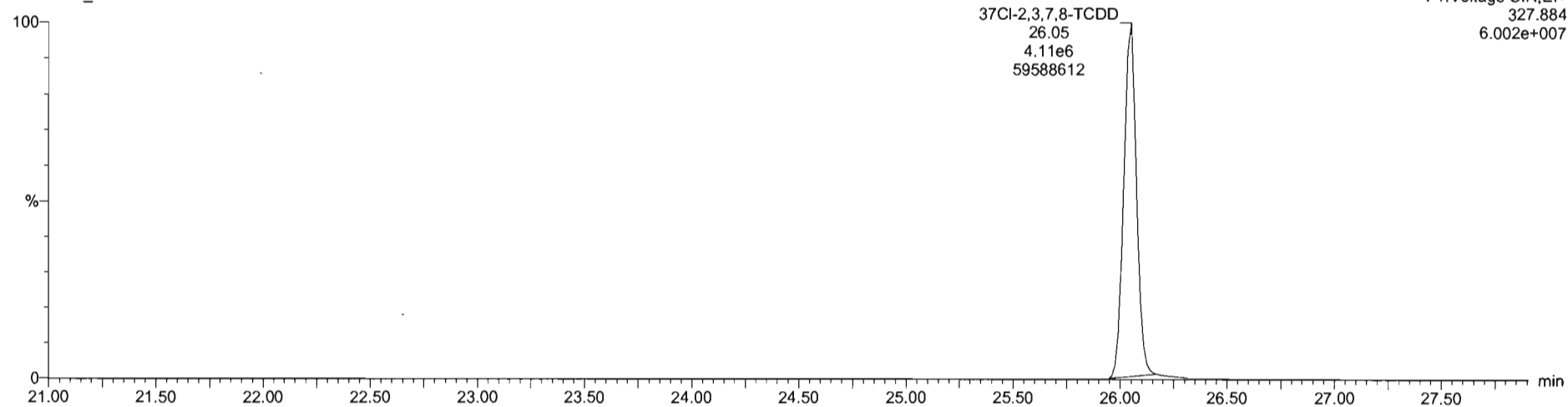
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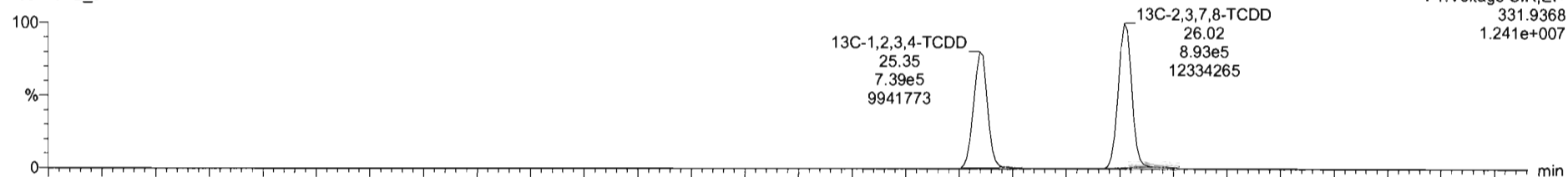
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200429R2\_6

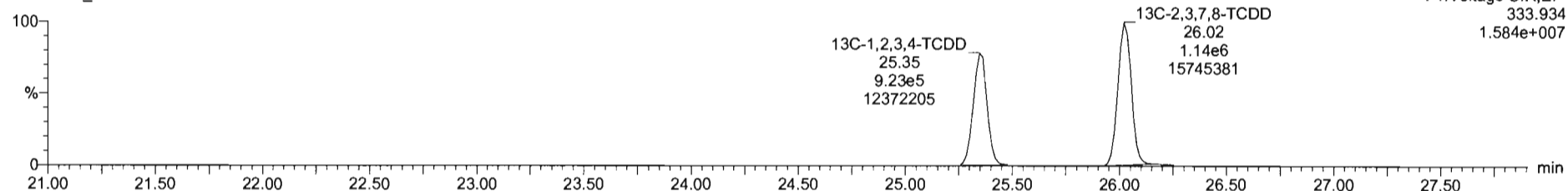


**13C-1,2,3,4-TCDD**

200429R2\_6



200429R2\_6



Dataset: Untitled

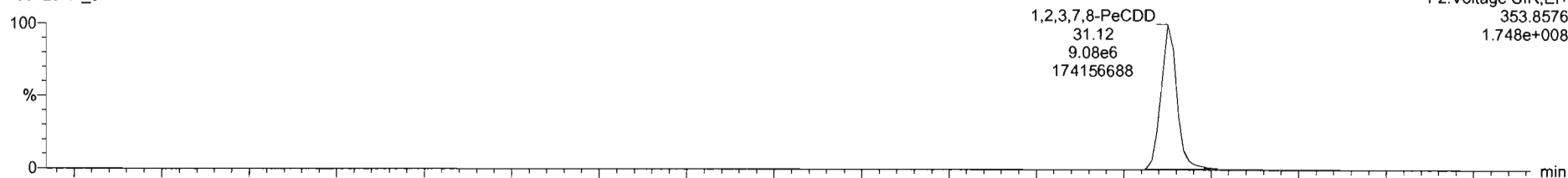
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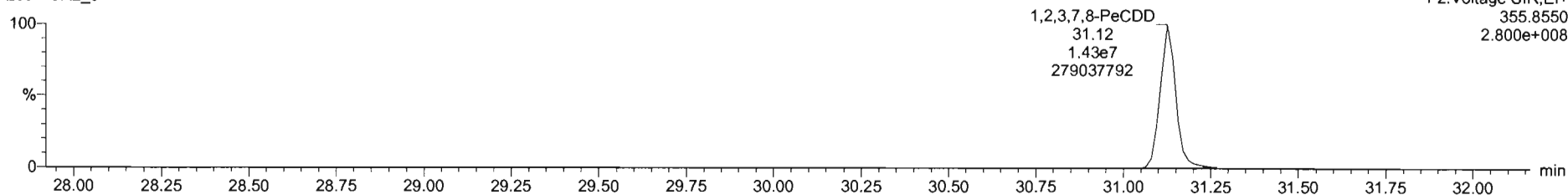
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**1,2,3,7,8-PeCDD**

200429R2\_6

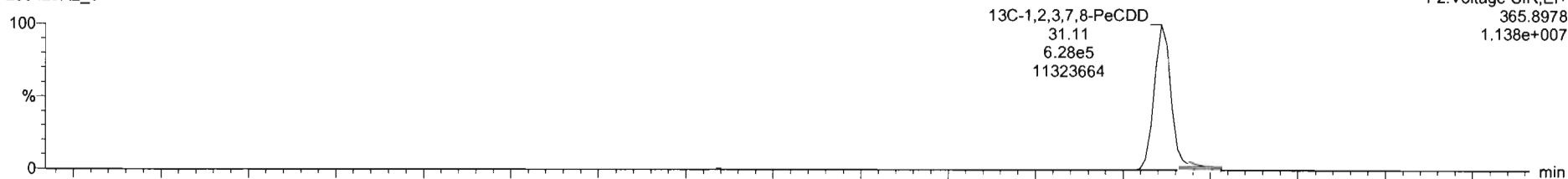


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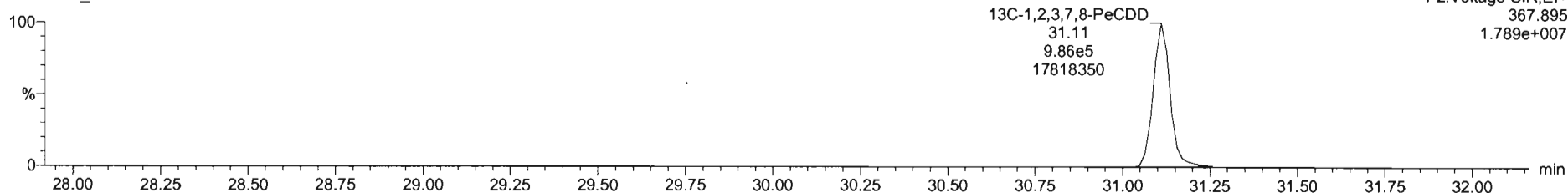


**13C-1,2,3,7,8-PeCDD**

200429R2\_6



200429R2\_6



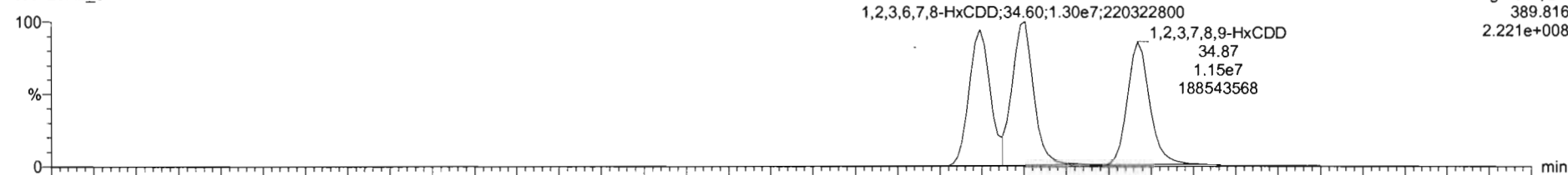
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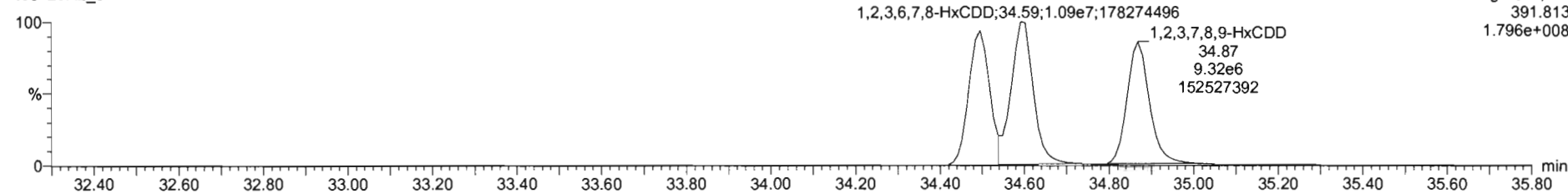
**1,2,3,4,7,8-HxCDD**

200429R2\_6



F3:Voltage SIR,EI+  
389.816  
2.221e+008

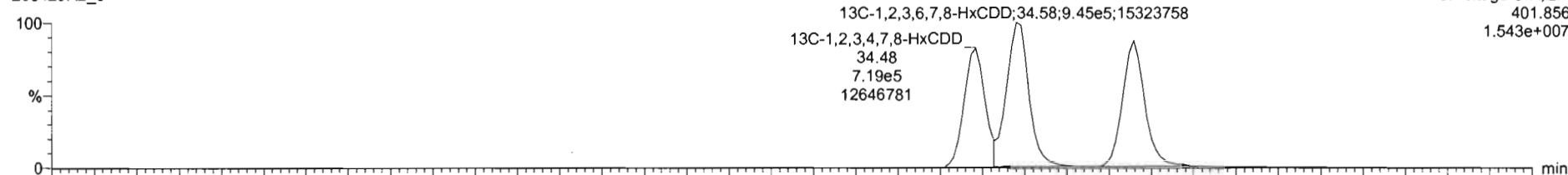
200429R2\_6



F3:Voltage SIR,EI+  
391.813  
1.796e+008

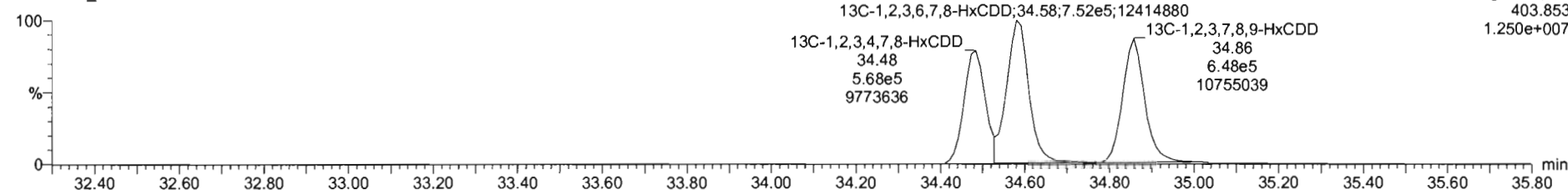
**13C-1,2,3,4,7,8-HxCDD**

200429R2\_6



F3:Voltage SIR,EI+  
401.856  
1.543e+007

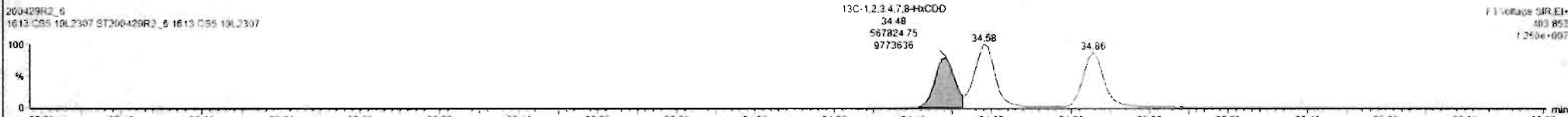
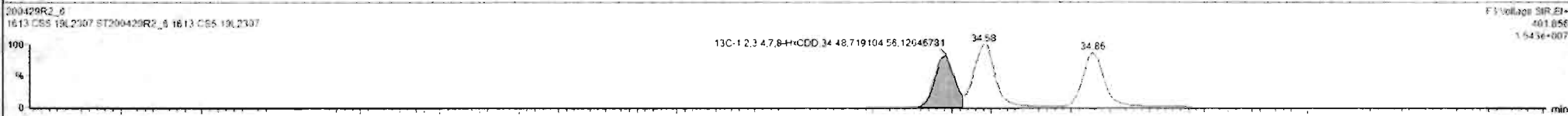
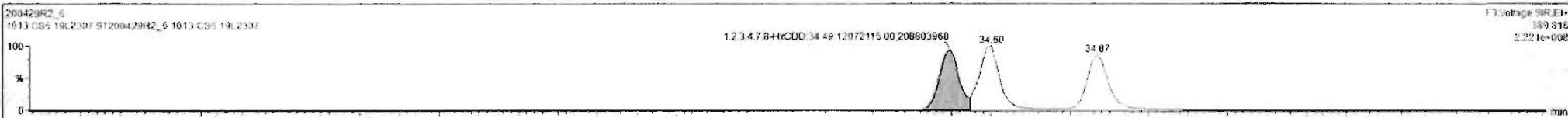
200429R2\_6



F3:Voltage SIR,EI+  
403.853  
1.250e+007



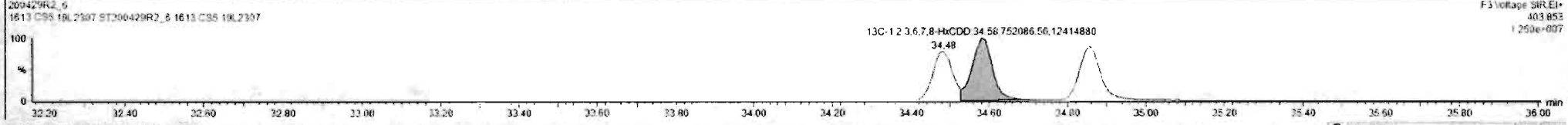
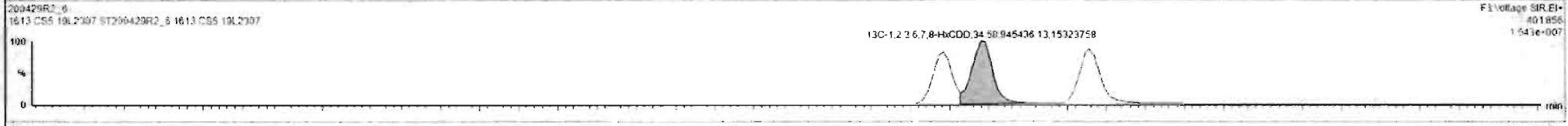
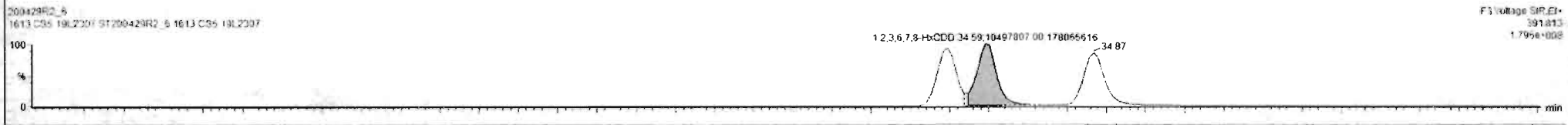
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1	1,2,3,7,8-TCDD	26.05	0.784	NO	6.0624e6	2.0310e6	300.000	5.4	5.35	0.947	0.0567
2	1,2,3,7,8-PeCDD	31.13	0.634	NO	2.3414e7	1.6142e6	1500.000	2.6	5.51	0.942	0.0516
3	1,2,3,4,7,8-HxCDD	34.48	1.228	NO	2.1905e7	1.2269e6	1000.000	6.6	6.62	1.08	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.237	NO	2.3486e7	1.6975e6	1500.000	0.9	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.87	1.213	NO	2.0602e7	1.4580e6	1500.000	4.0	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	36.37	1.019	NO	1.6010e7	1.1280e6	1500.000	5.6	8.92	0.956	0.0622
7	OCDD	41.34	0.887	NO	3.3871e7	2.3135e6	2000.000	4.8	7.57	0.633	0.0707
8	2,3,7,8-TCDF	25.05	0.753	NO	7.1946e6	2.9106e6	300.000	4.7	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.51	1.560	NO	3.5628e7	2.5822e6	1500.000	1.5	5.86	0.910	0.0533
10	1,2,3,4,7,8-PeCDF	30.81	1.542	NO	3.6618e7	2.5077e6	1500.000	0.7	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.83	1.189	NO	2.3482e7	1.7670e6	1500.000	4.4	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.75	1.189	NO	2.5241e7	1.9123e6	1500.000	0.7	7.23	0.874	0.0632
13	1,2,3,4,6,7,8-HxCDF	34.33	1.190	NO	2.4775e7	1.7418e6	1500.000	2.9	7.60	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.21	1.196	NO	1.9813e7	1.4696e6	1500.000	4.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.95	0.992	NO	1.8927e7	1.3725e6	1500.000	5.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.94	0.991	NO	1.4705e7	8.6492e5	1500.000	6.5	6.62	1.01	0.0670
17	OCDF	41.52	0.867	NO	2.3638e7	2.6295e6	3000.000	4.4	7.16	0.802	0.0575



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200429R2\_6 CAP INUM

#	Name	RT	RA	yht	Area	IS Area	Std Conc	%Dev	%RSD	RRF M.	RRF SD
1	1,2,3,7,8-TCDD	26.95	0.764	NO	6.0624e6	2.0310e6	300.000	5.4	5.35	0.947	0.9507
2	1,2,3,7,8-PeCDD	31.13	0.634	NO	2.3414e7	1.6142e6	1500.000	2.6	5.51	0.942	0.9519
3	1,2,3,4,7,8-HxCDD	34.49	1.228	NO	2.1905e7	1.2669e6	1500.000	6.6	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.237	NO	2.3489e7	1.6075e6	1500.000	0.8	6.53	0.915	0.0592
5	1,2,3,7,8,9-HxCDD	34.67	1.233	NO	2.0602e7	1.4580e6	1500.000	4.0	7.64	0.915	0.0690
6	1,2,3,4,6,7,8-HpCDD	36.37	1.019	NO	1.6010e7	1.1360e6	1500.000	5.6	6.93	0.896	0.0622
7	OCDD	41.34	0.887	NO	3.3271e7	2.3135e6	3000.000	4.8	7.57	0.933	0.0707
8	1,2,7,8-TCDF	25.05	0.753	NO	7.1949e6	2.9106e6	300.000	4.7	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.560	NO	3.5938e7	2.5822e6	1500.000	1.9	5.86	0.910	0.0533
10	1,2,3,4,7,8-HxCDF	30.81	1.542	NO	3.6618e7	3.5077e6	1500.000	0.7	4.96	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.63	1.190	NO	2.3482e7	1.7070e6	1500.000	4.4	7.59	0.878	0.0566
12	1,2,3,6,7,8-HxCDF	33.75	1.189	NO	2.5241e7	1.9123e6	1500.000	0.7	7.23	0.874	0.0632
13	1,2,3,4,6,7,8-HpCDF	34.33	1.190	NO	2.4775e7	1.7418e6	1500.000	2.9	7.69	0.932	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.196	NO	1.9613e7	1.4696e6	1500.000	4.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.96	0.992	NO	1.6927e7	1.2725e6	1500.000	5.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	36.94	0.993	NO	1.4205e7	8.6492e5	1500.000	6.5	6.62	1.01	0.0670
17	OCDF	41.52	0.887	NO	2.3036e7	2.6295e6	3000.000	4.4	7.16	0.802	0.0575



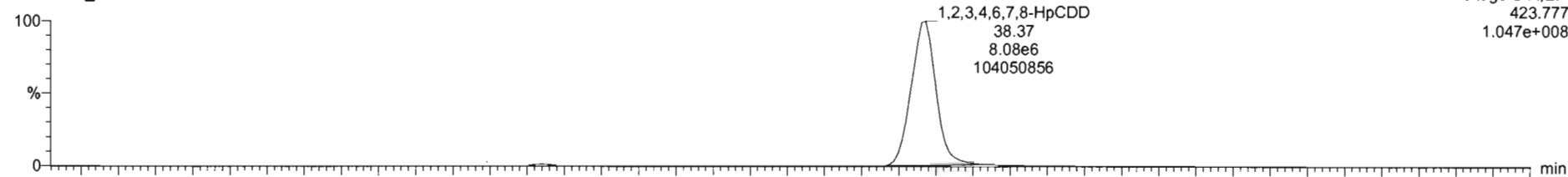
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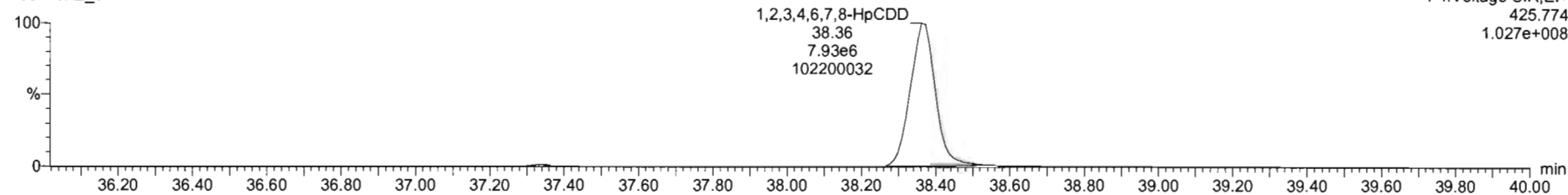
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**1,2,3,4,6,7,8-HpCDD**

200429R2\_6

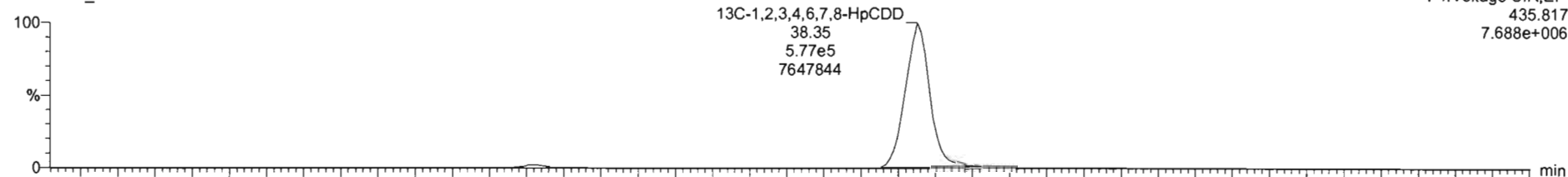


200429R2\_6

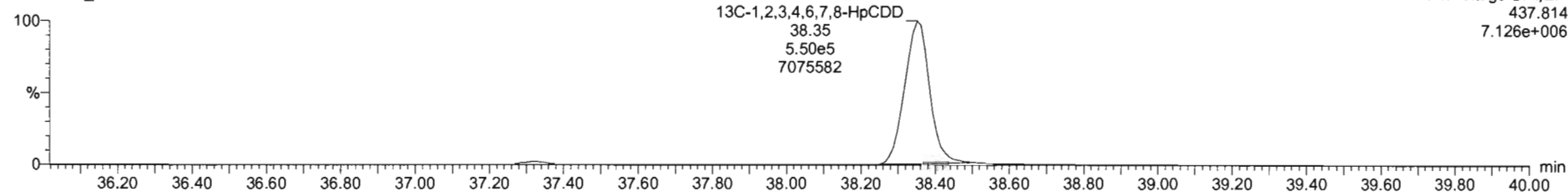


**13C-1,2,3,4,6,7,8-HpCDD**

200429R2\_6



200429R2\_6



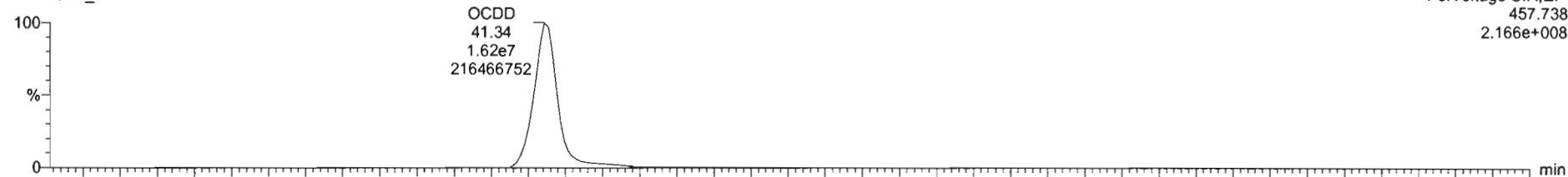
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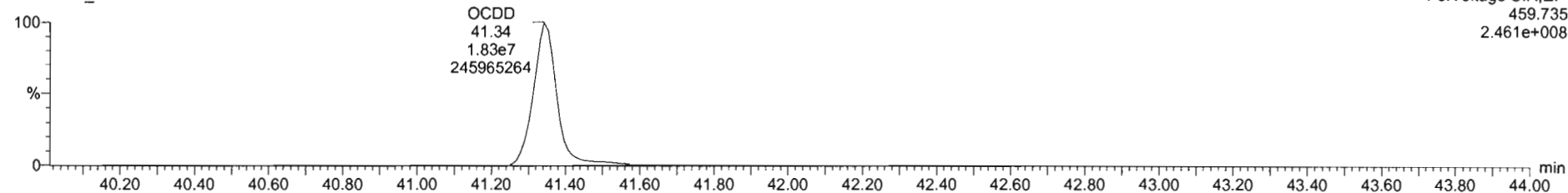
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**OCDD**

200429R2\_6

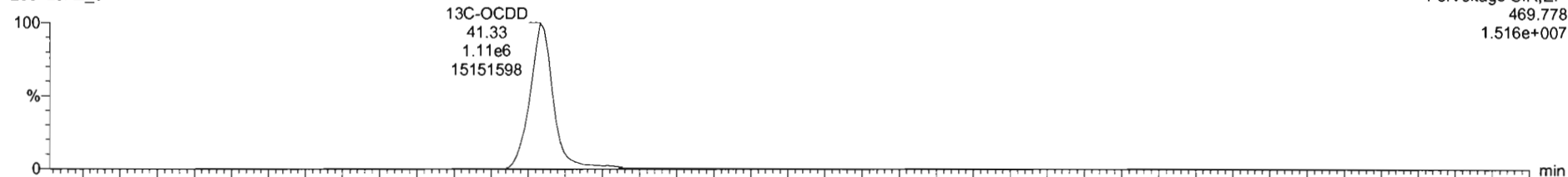


200429R2\_6

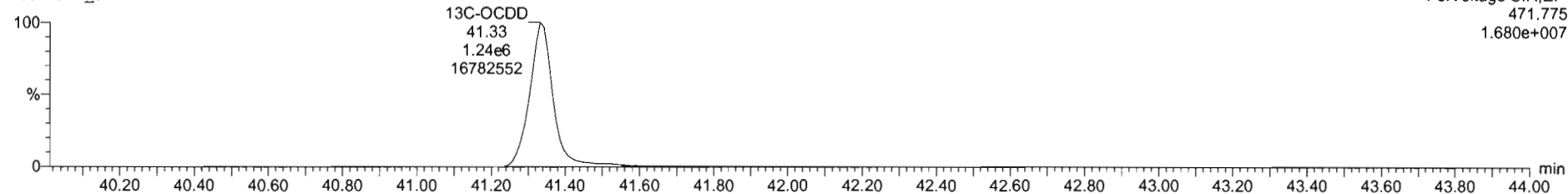


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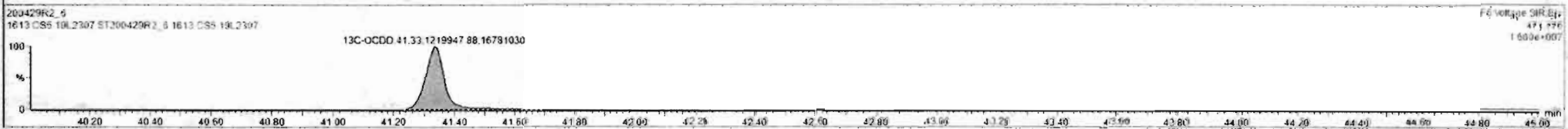
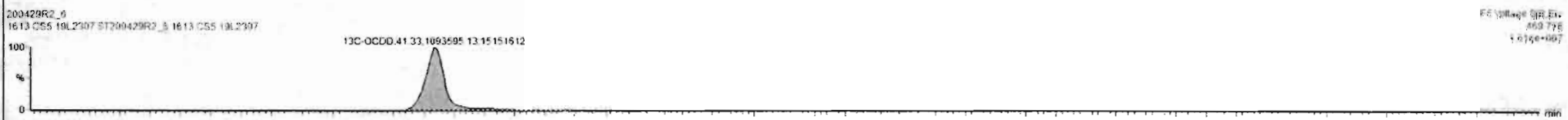
200429R2\_6



200429R2\_6



#	Name	RT	RA	Y/N	Area	IS Area	Std. Conc	%Dev	%RSD	RRF U	RRF SD
1	1,2,3,7,8-TCDD	26.05	0.754	NO	6.0624e6	2.0210e6	300.000	5.4	5.15	0.547	0.0567
2	1,2,3,7,8-PeCDD	31.13	0.634	NO	2.3414e7	1.6142e6	1500.000	2.6	5.51	0.642	0.0519
3	1,2,3,4,7,8-HxCDD	34.43	1.220	NO	2.1905e7	1.2869e6	1500.000	6.6	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.237	NO	2.3486e7	1.6975e6	1500.000	0.9	6.53	0.916	0.0597
5	1,2,3,7,8,9-HxCDD	34.87	1.233	NO	2.0602e7	1.4580e6	1500.000	4.0	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	36.37	1.019	NO	1.6010e7	1.1260e6	1500.000	5.6	6.93	0.656	0.0422
7	OCDD	41.34	0.697	NO	3.3671e7	2.3135e6	3000.000	4.6	7.57	0.933	0.0707
8	2,2,7,8-TCDF	25.09	0.753	NO	7.1646e6	2.9106e6	300.000	4.7	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.560	NO	3.5528e7	2.5822e6	1500.000	1.9	5.66	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.81	1.542	NO	3.6618e7	2.5077e6	1500.000	0.7	4.85	0.966	0.0461
11	1,2,3,4,7,8-HxCDF	33.83	1.190	NO	2.3482e7	1.7070e6	1500.000	4.4	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.75	1.189	NO	2.5241e7	1.9123e6	1500.000	0.7	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.190	NO	2.4775e7	1.7418e6	1500.000	2.9	7.60	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.195	NO	1.9612e7	1.4696e6	1500.000	4.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.96	0.992	NO	1.8627e7	1.3725e6	1500.000	5.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.54	0.993	NO	1.4305e7	8.6492e5	1500.000	6.5	6.62	1.01	0.0670
17	OCDF	41.52	0.667	NO	3.3036e7	2.6295e6	3000.000	4.4	7.16	0.802	0.0575



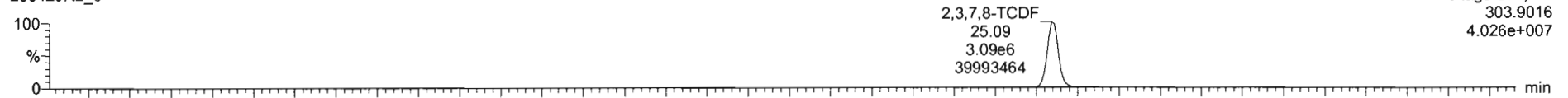
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

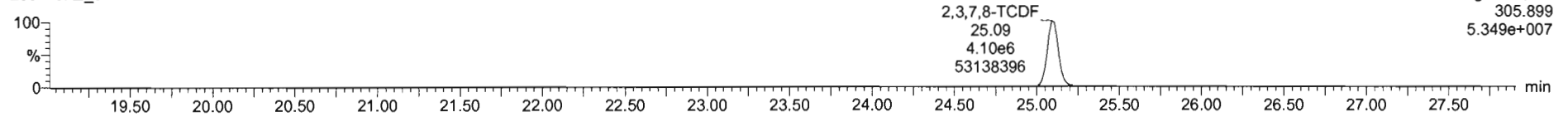
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**2,3,7,8-TCDF**

200429R2\_6

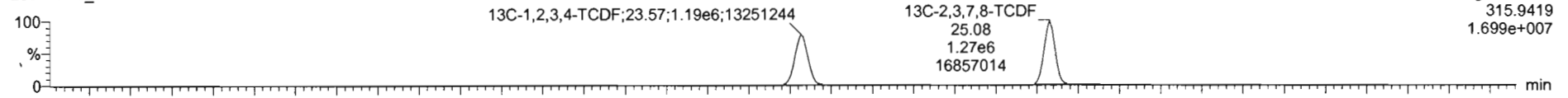


200429R2\_6

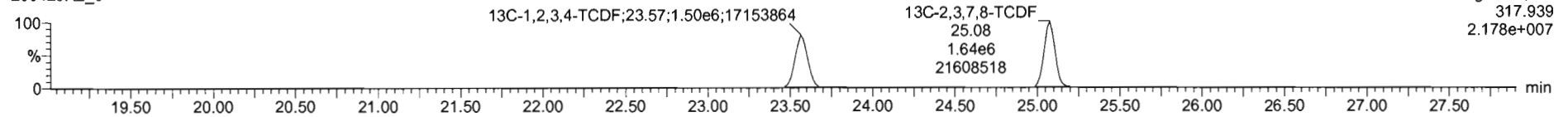


**13C-2,3,7,8-TCDF**

200429R2\_6

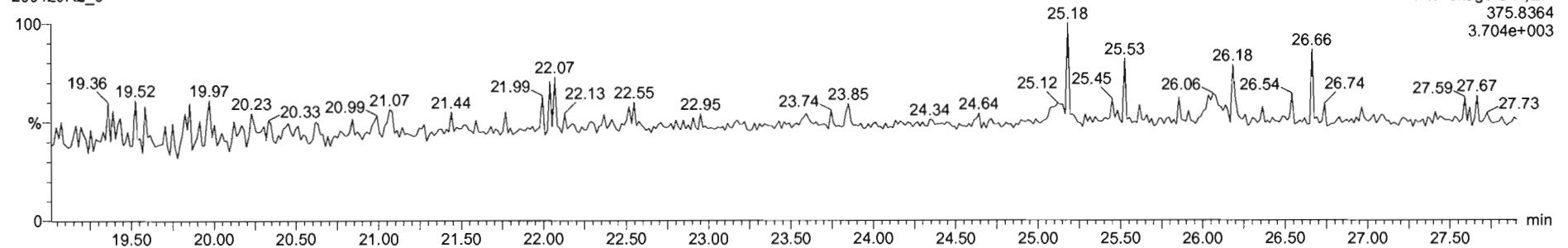


200429R2\_6



**DPE1**

200429R2\_6



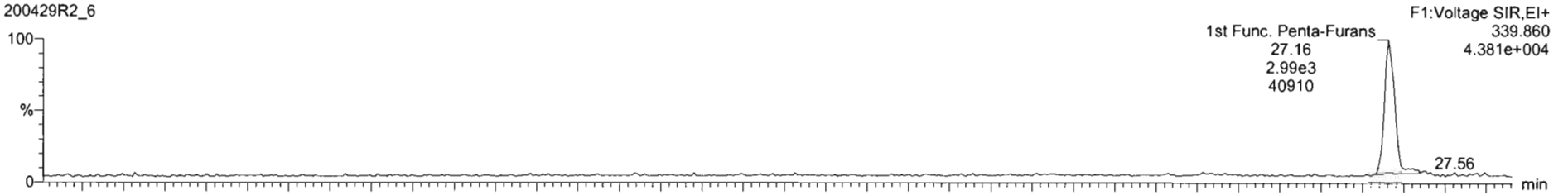
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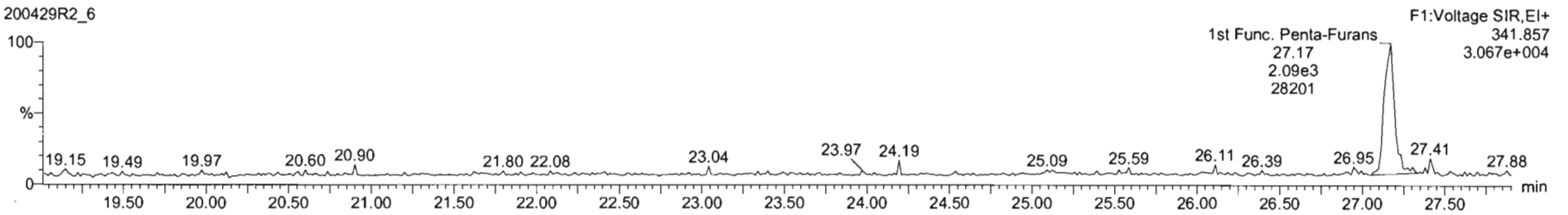
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1st Func. Penta-Furans

200429R2\_6

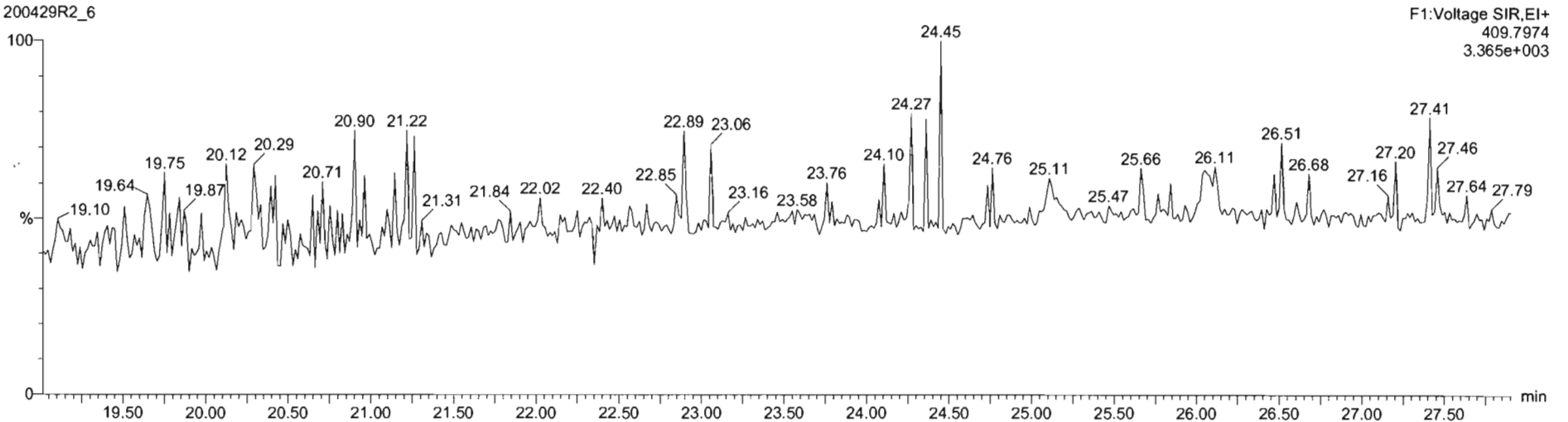


200429R2\_6



DPE6

200429R2\_6



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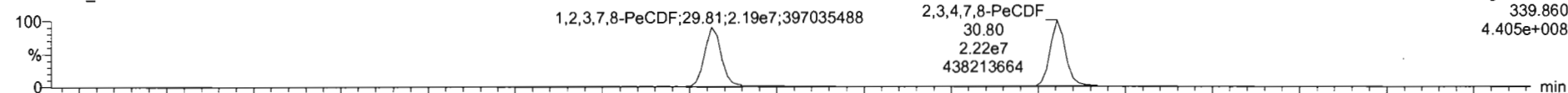
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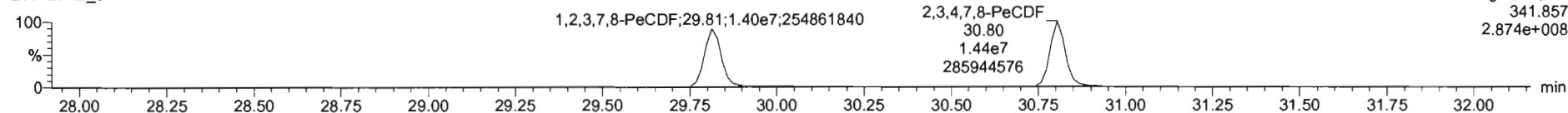
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**1,2,3,7,8-PeCDF**

200429R2\_6

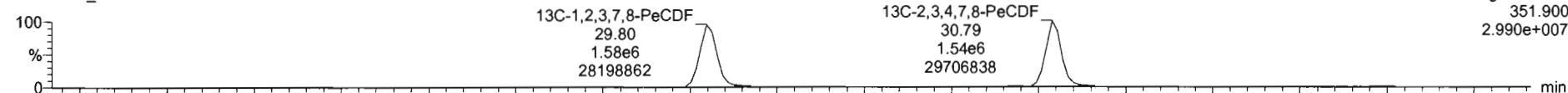


200429R2\_6

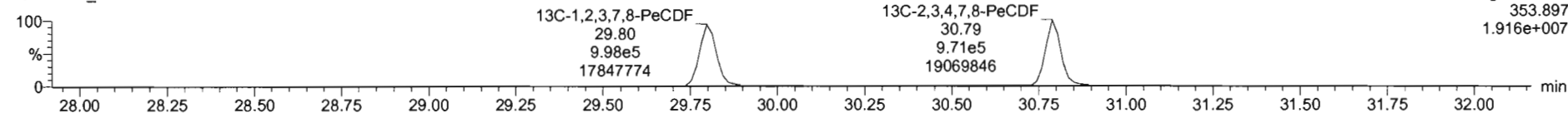


**13C-1,2,3,7,8-PeCDF**

200429R2\_6

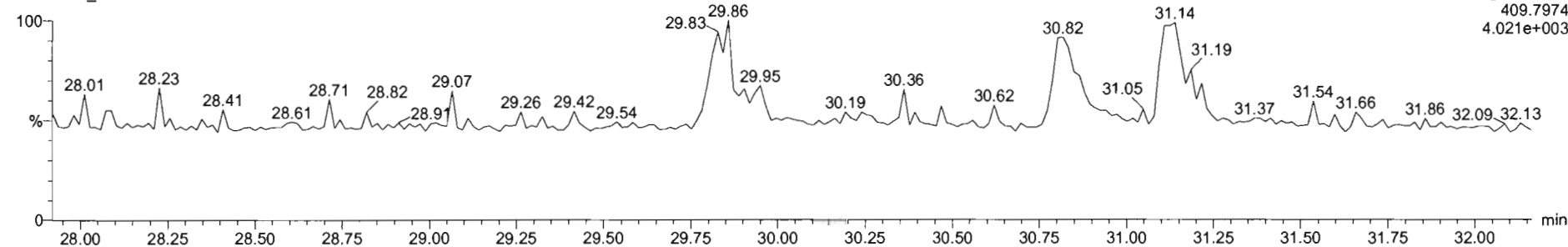


200429R2\_6



**DPE2**

200429R2\_6





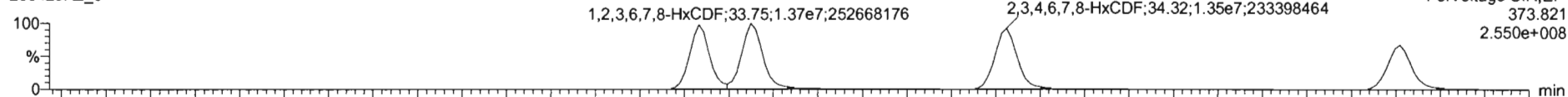
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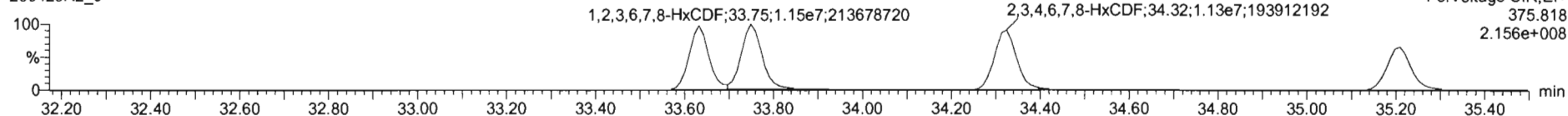
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**1,2,3,4,7,8-HxCDF**

200429R2\_6

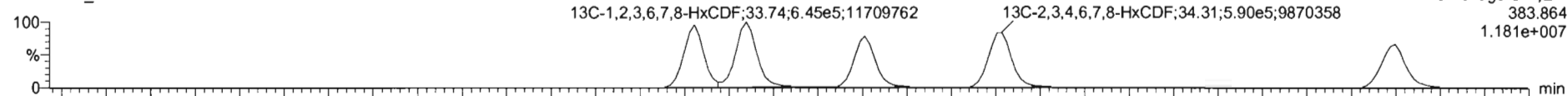


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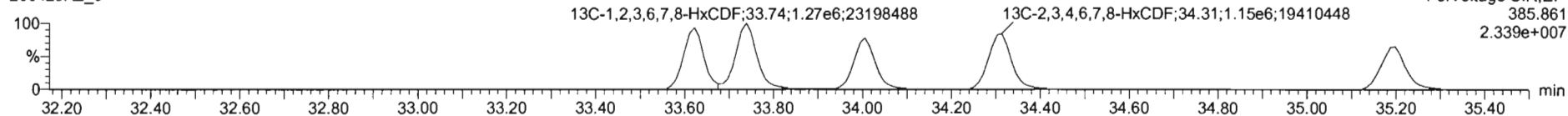


**13C-1,2,3,4,7,8-HxCDF**

200429R2\_6

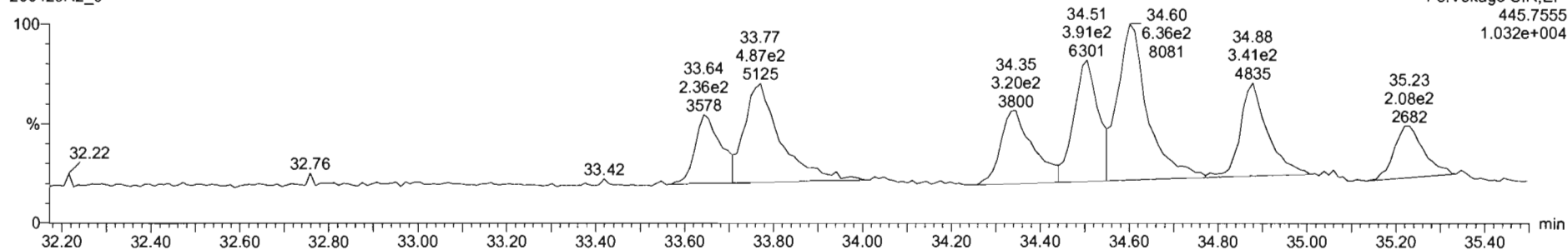


200429R2\_6



**DPE3**

200429R2\_6



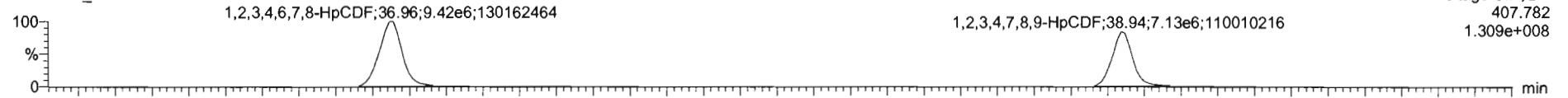
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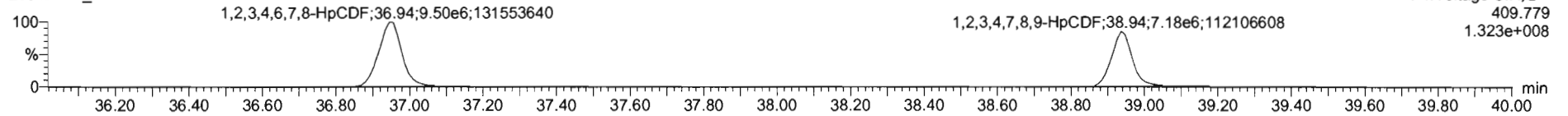
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**1,2,3,4,6,7,8-HpCDF**

200429R2\_6

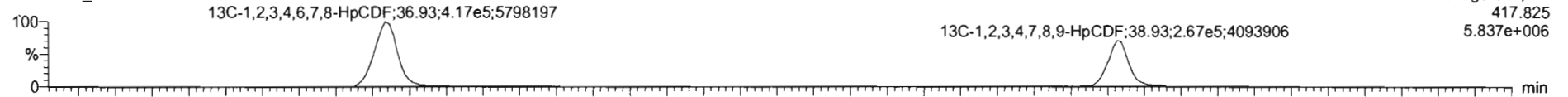


200429R2\_6

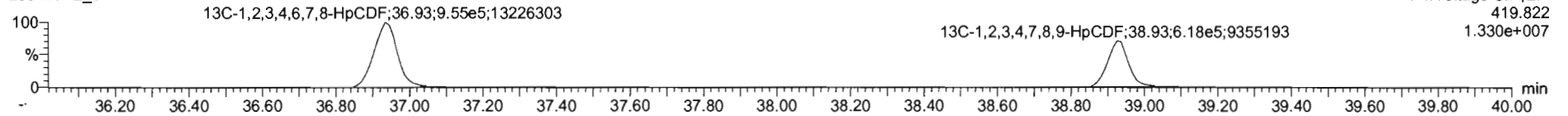


**13C-1,2,3,4,6,7,8-HpCDF**

200429R2\_6

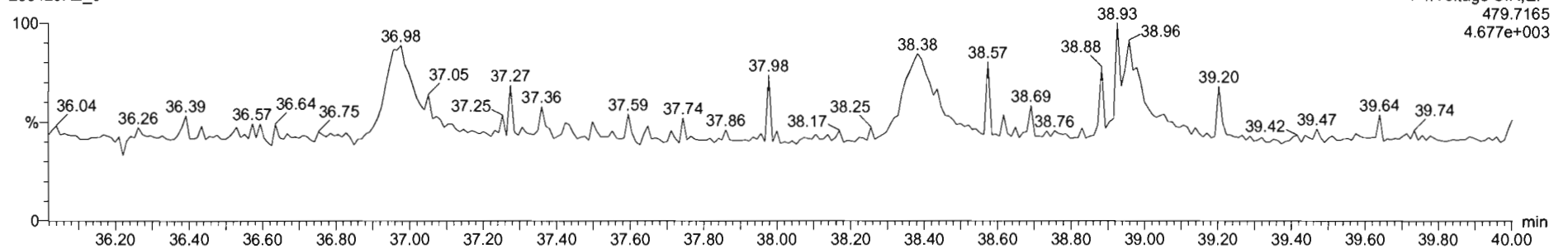


200429R2\_6



**DPE4**

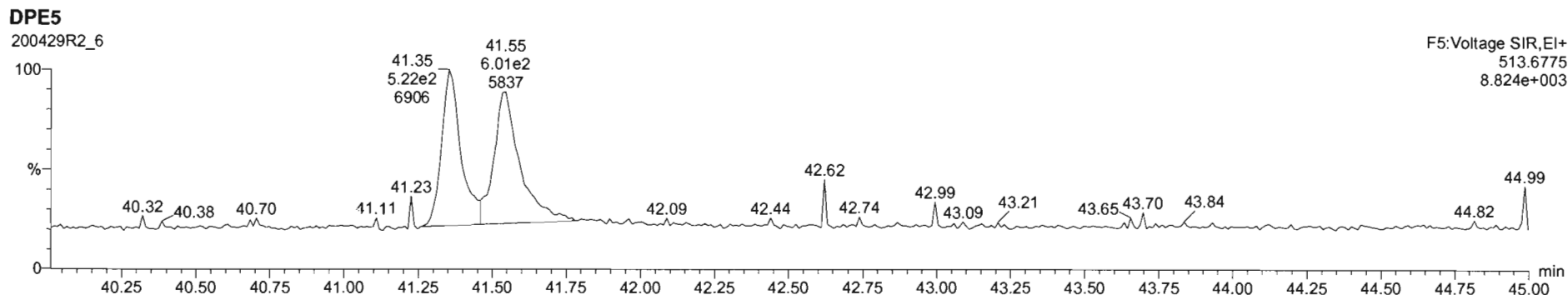
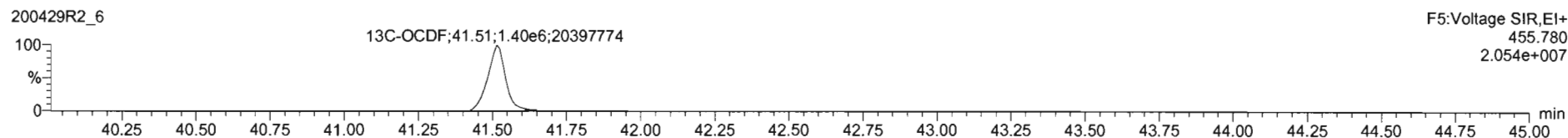
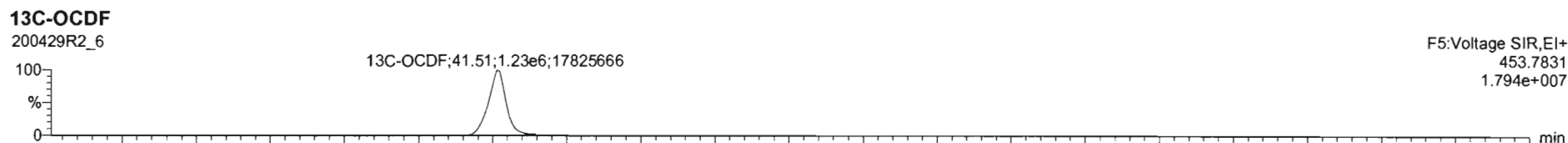
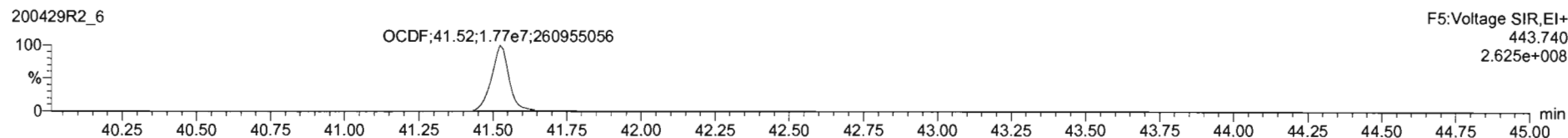
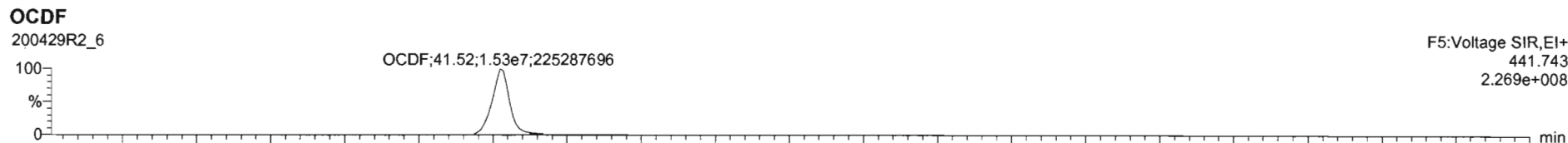
200429R2\_6



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Dataset: U:\VG12.PRO\Results\200429R2\200429R2-8.qld

Last Altered: Thursday, April 30, 2020 8:35:25 AM Pacific Daylight Time

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GRB 04/30/2020

CT 04/30/2020

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	1.63e5	0.76	NO	0.947	1.000	26.081	26.07	1.001	1.001	11.205	112	0.0427	11.2
2	2 1,2,3,7,8-PeCDD	5.70e5	0.63	NO	0.942	1.000	31.147	31.14	1.001	1.000	56.141	112	0.0577	56.1
3	3 1,2,3,4,7,8-HxCDD	4.91e5	1.24	NO	1.06	1.000	34.505	34.51	1.000	1.000	58.046	116	0.102	58.0
4	4 1,2,3,6,7,8-HxCDD	5.43e5	1.25	NO	0.915	1.000	34.591	34.61	1.000	1.001	57.430	115	0.105	57.4
5	5 1,2,3,7,8,9-HxCDD	4.78e5	1.25	NO	0.915	1.000	34.878	34.88	1.000	1.000	58.193	116	0.120	58.2
6	6 1,2,3,4,6,7,8-HpCDD	3.49e5	1.04	NO	0.898	1.000	38.373	38.38	1.000	1.001	56.727	113	0.145	56.7
7	7 OCDD	6.53e5	0.88	NO	0.933	1.000	41.343	41.35	1.000	1.000	116.94	117	0.107	117
8	8 2,3,7,8-TCDF	1.99e5	0.73	NO	0.787	1.000	25.117	25.12	1.001	1.001	11.247	112	0.0306	11.2
9	9 1,2,3,7,8-PeCDF	9.00e5	1.54	NO	0.910	1.000	29.834	29.83	1.001	1.001	55.836	112	0.0810	55.8
10	10 2,3,4,7,8-PeCDF	1.00e6	1.53	NO	0.966	1.000	30.836	30.82	1.001	1.000	60.816	122	0.0765	60.8
11	11 1,2,3,4,7,8-HxCDF	5.51e5	1.21	NO	0.878	1.000	33.632	33.64	1.000	1.000	55.918	112	0.109	55.9
12	12 1,2,3,6,7,8-HxCDF	6.22e5	1.22	NO	0.874	1.000	33.760	33.76	1.000	1.000	56.451	113	0.107	56.5
13	13 2,3,4,6,7,8-HxCDF	5.78e5	1.19	NO	0.922	1.000	34.359	34.33	1.001	1.000	56.186	112	0.118	56.2
14	14 1,2,3,7,8,9-HxCDF	4.76e5	1.19	NO	0.864	1.000	35.209	35.22	1.000	1.000	55.290	111	0.162	55.3
15	15 1,2,3,4,6,7,8-HpCDF	4.11e5	0.98	NO	0.871	1.000	36.982	36.97	1.001	1.001	54.863	110	0.153	54.9
16	16 1,2,3,4,7,8,9-HpCDF	2.99e5	0.98	NO	1.01	1.000	38.947	38.95	1.000	1.000	57.162	114	0.204	57.2
17	17 OCDF	6.13e5	0.86	NO	0.802	1.000	41.525	41.53	1.000	1.000	115.17	115	0.126	115
18	18 13C-2,3,7,8-TCDD	1.53e6	0.79	NO	1.16	1.000	26.046	26.05	1.026	1.027	91.114	91.1	0.0954	
19	19 13C-1,2,3,7,8-PeCDD	1.08e6	0.64	NO	0.847	1.000	31.141	31.13	1.227	1.227	87.564	87.6	0.0958	
20	20 13C-1,2,3,4,7,8-HxCDD	7.95e5	1.29	NO	0.750	1.000	34.496	34.49	1.014	1.014	88.379	88.4	0.183	
21	21 13C-1,2,3,6,7,8-HxCDD	1.03e6	1.29	NO	0.963	1.000	34.608	34.59	1.017	1.017	89.585	89.6	0.142	
22	22 13C-1,2,3,7,8,9-HxCDD	8.98e5	1.26	NO	0.838	1.000	34.877	34.87	1.025	1.025	89.402	89.4	0.164	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.86e5	1.10	NO	0.641	1.000	38.367	38.36	1.128	1.128	89.184	89.2	0.183	
24	24 13C-OCDD	1.20e6	0.86	NO	0.586	1.000	41.360	41.34	1.216	1.215	170.31	85.2	0.144	
25	25 13C-2,3,7,8-TCDF	2.25e6	0.78	NO	1.03	1.000	25.104	25.09	0.989	0.989	92.189	92.2	0.134	
26	26 13C-1,2,3,7,8-PeCDF	1.77e6	1.60	NO	0.845	1.000	29.829	29.81	1.176	1.175	88.893	88.9	0.195	
27	27 13C-2,3,4,7,8-PeCDF	1.71e6	1.60	NO	0.814	1.000	30.822	30.81	1.215	1.214	88.919	88.9	0.203	
28	28 13C-1,2,3,4,7,8-HxCDF	1.12e6	0.51	NO	1.00	1.000	33.635	33.63	0.989	0.989	93.115	93.1	0.212	
29	29 13C-1,2,3,6,7,8-HxCDF	1.26e6	0.51	NO	1.14	1.000	33.757	33.75	0.992	0.992	92.434	92.4	0.187	
30	30 13C-2,3,4,6,7,8-HxCDF	1.12e6	0.51	NO	1.02	1.000	34.326	34.33	1.009	1.009	91.031	91.0	0.208	
31	31 13C-1,2,3,7,8,9-HxCDF	9.97e5	0.51	NO	0.845	1.000	35.217	35.21	1.035	1.035	98.412	98.4	0.252	

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Name: 200429R2\_8, Date: 29-Apr-2020, Time: 18:58:05, ID: SS200429R2\_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	8.59e5	0.43	NO	0.771	1.000	36.948	36.94	1.086	1.086	92.960	93.0	0.284	
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.17e5	0.43	NO	0.482	1.000	38.959	38.95	1.145	1.145	89.503	89.5	0.455	
34	34 13C-OCDF	1.33e6	0.88	NO	0.669	1.000	41.530	41.53	1.221	1.221	165.58	82.8	0.146	
35	35 37Cl-2,3,7,8-TCDD	1.58e5			1.10	1.000	26.076	26.07	1.028	1.027	9.8763	98.8	0.0151	
36	36 13C-1,2,3,4-TCDD	1.45e6	0.81	NO	1.00	1.000	25.350	25.38	1.000	1.000	100.00	100	0.111	
37	37 13C-1,2,3,4-TCDF	2.36e6	0.79	NO	1.00	1.000	23.560	23.59	1.000	1.000	100.00	100	0.139	
38	38 13C-1,2,3,4,6,9-HxCDF	1.20e6	0.51	NO	1.00	1.000	34.000	34.02	1.000	1.000	100.00	100	0.213	

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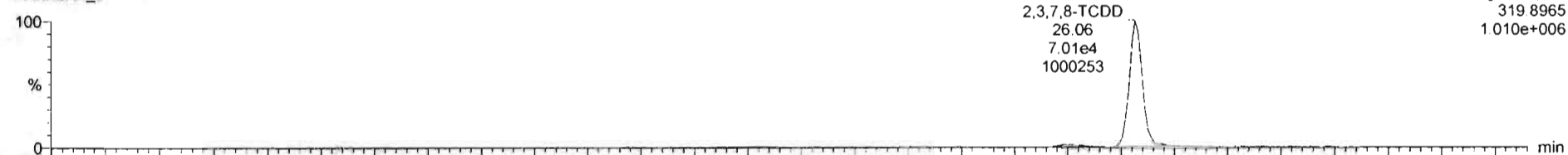
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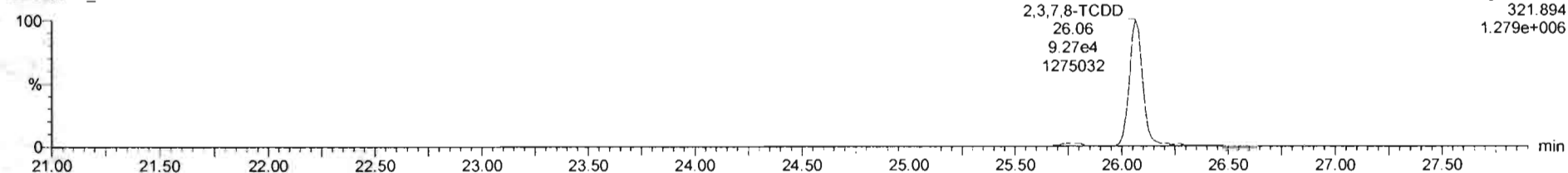
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**2,3,7,8-TCDD**

200429R2\_8

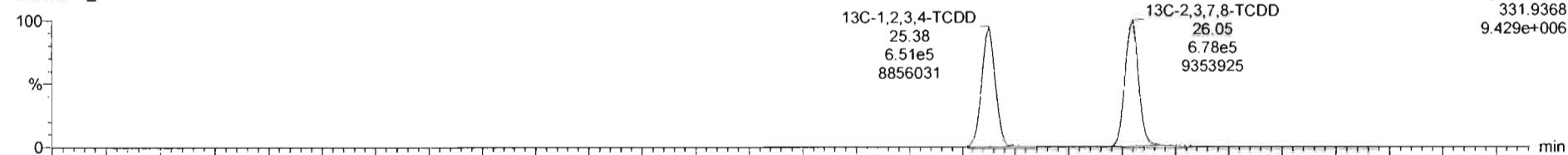


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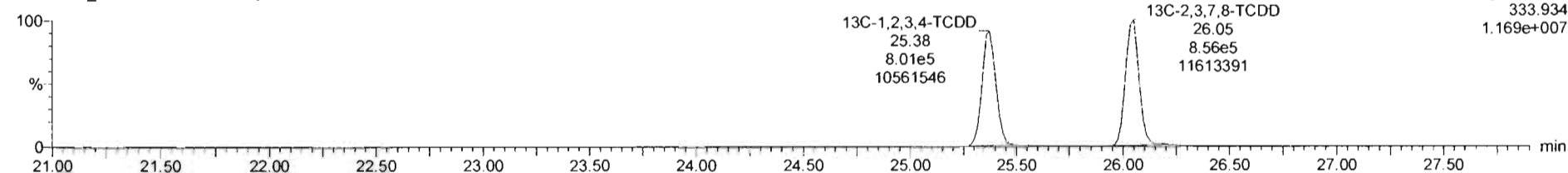


**13C-2,3,7,8-TCDD**

200429R2\_8



200429R2\_8



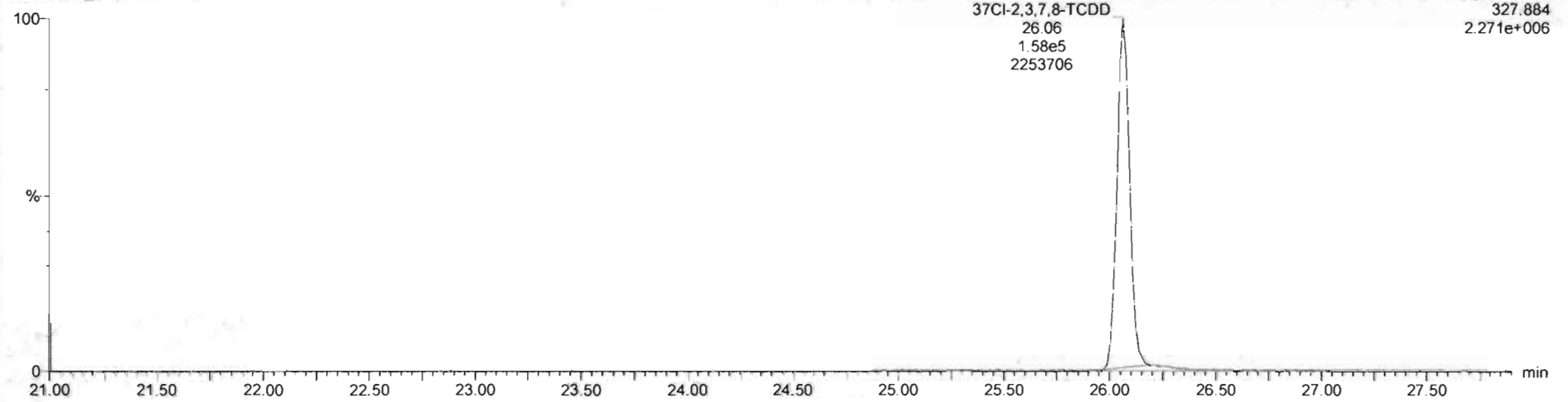
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Name: 200429R2\_8, Date: 29-Apr-2020, Time: 18:58:05, ID: SS200429R2\_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

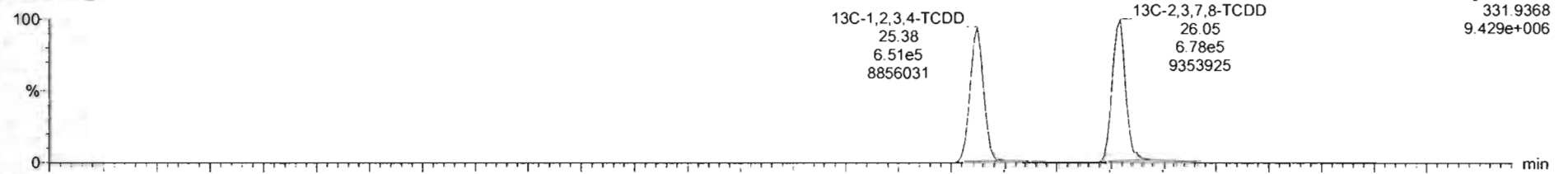
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200429R2\_8

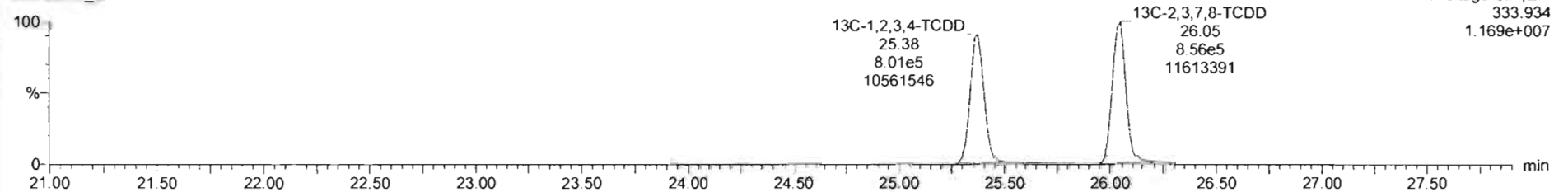


**13C-1,2,3,4-TCDD**

200429R2\_8



200429R2\_8





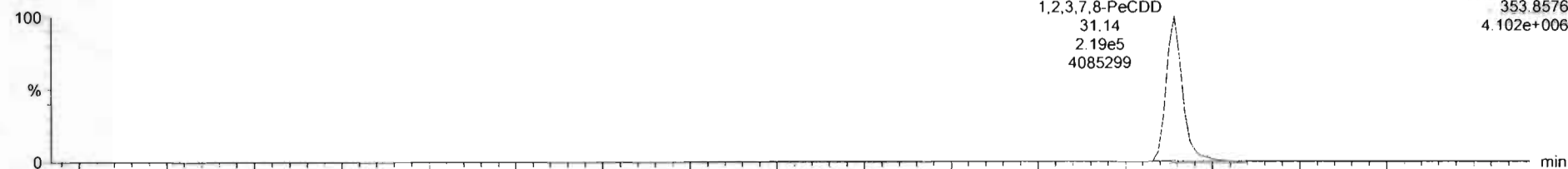
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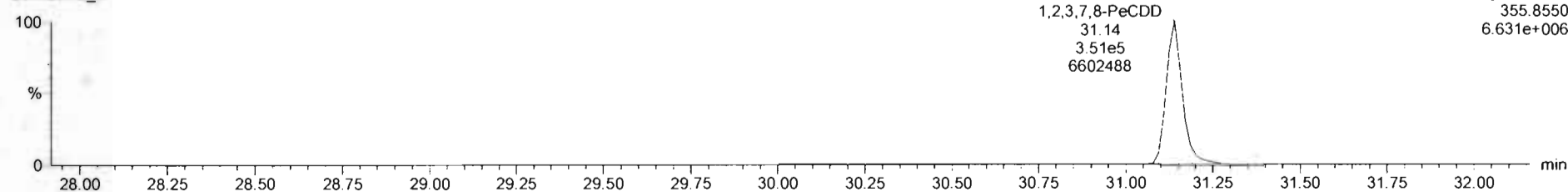
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**1,2,3,7,8-PeCDD**

200429R2\_8

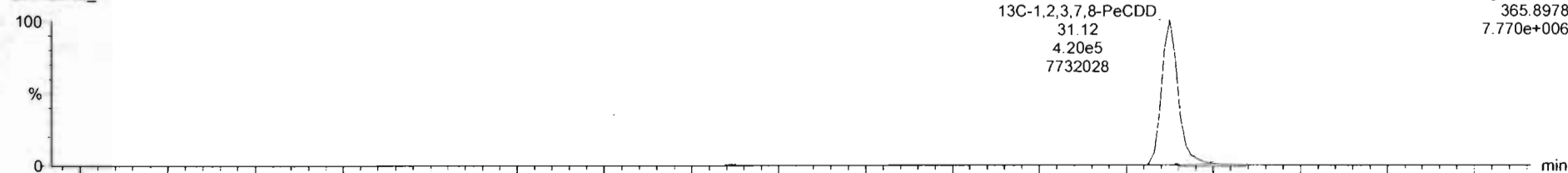


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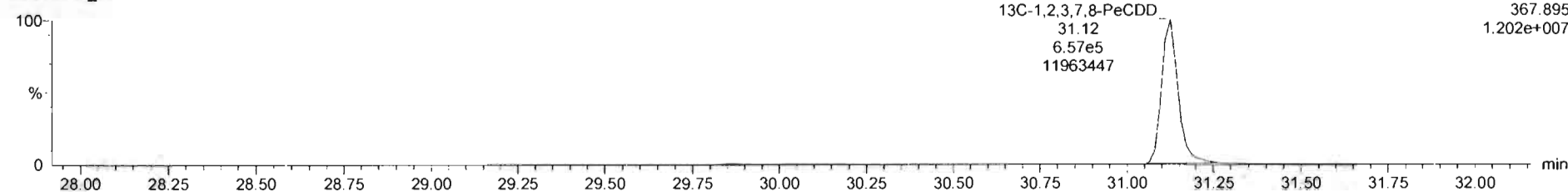


**13C-1,2,3,7,8-PeCDD**

200429R2\_8



200429R2\_8



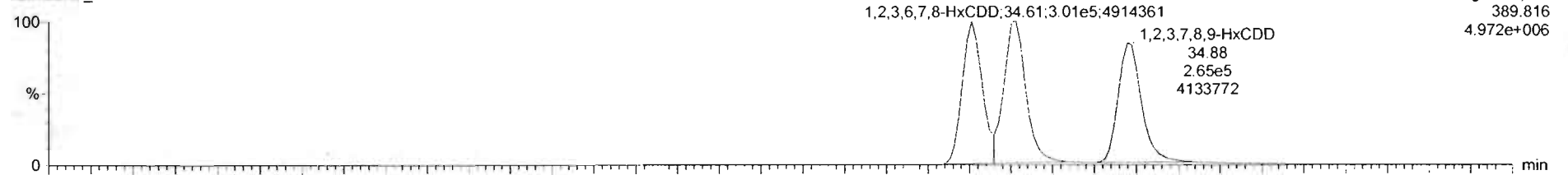
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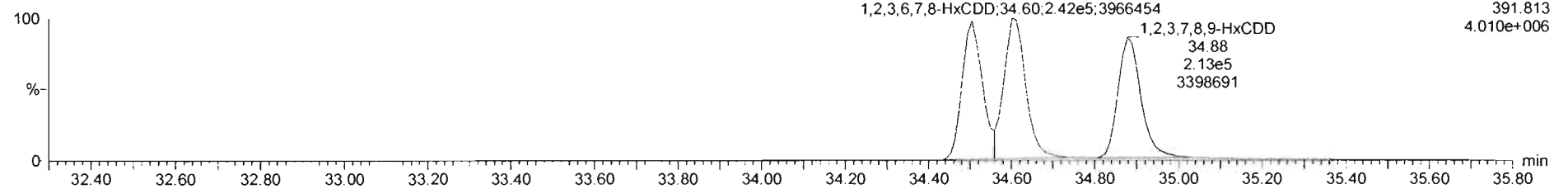
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**1,2,3,4,7,8-HxCDD**

200429R2\_8

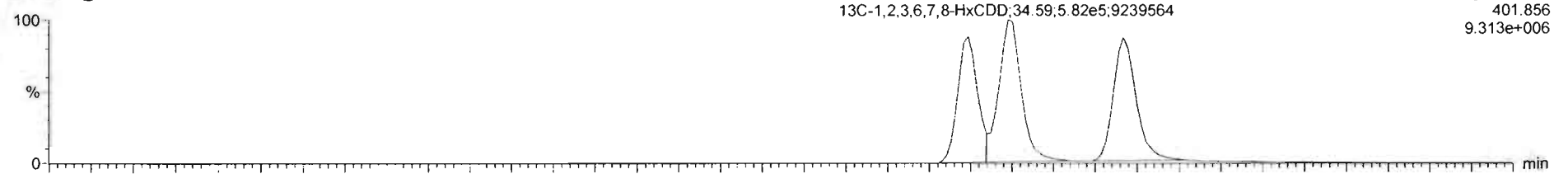


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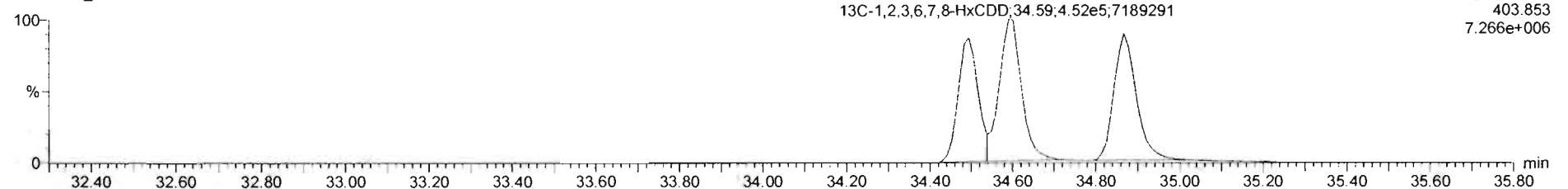


**13C-1,2,3,4,7,8-HxCDD**

200429R2\_8



200429R2\_8



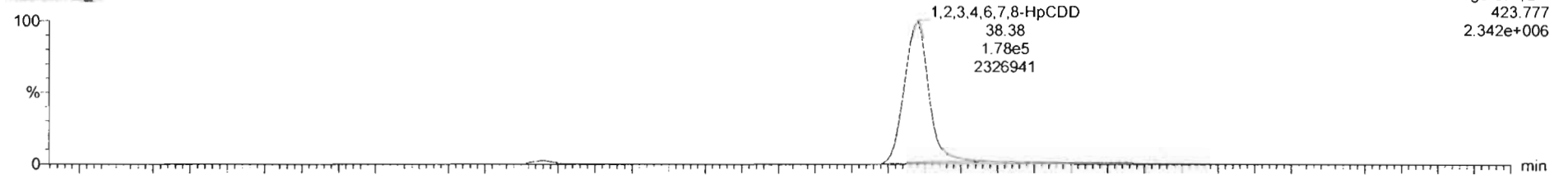
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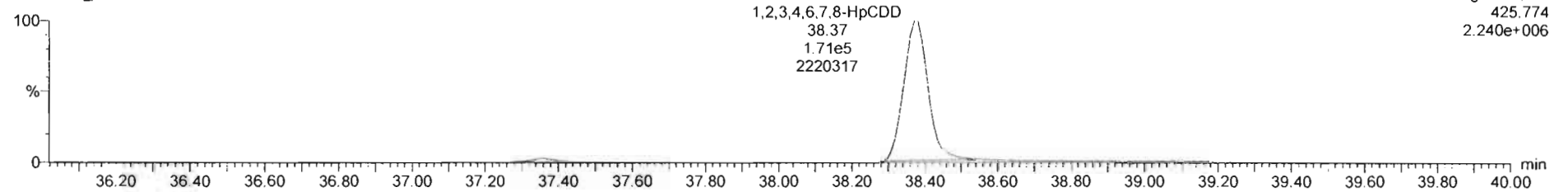
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200429R2\_8



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2.342e+006

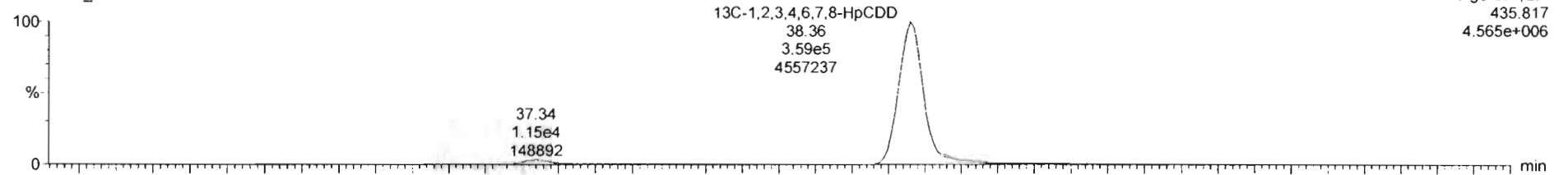
200429R2\_8



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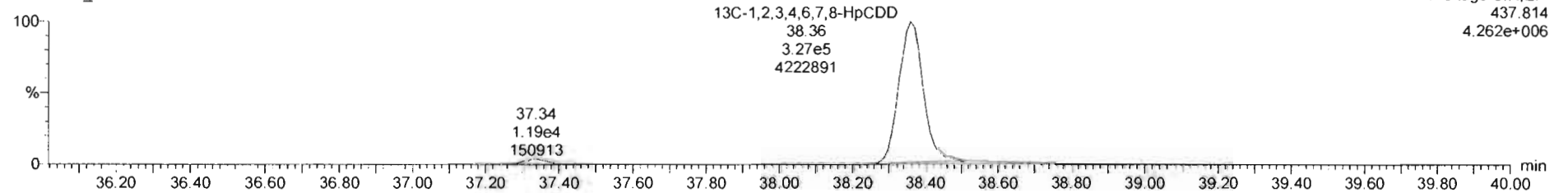
**13C-1,2,3,4,6,7,8-HpCDD**

200429R2\_8



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200429R2\_8



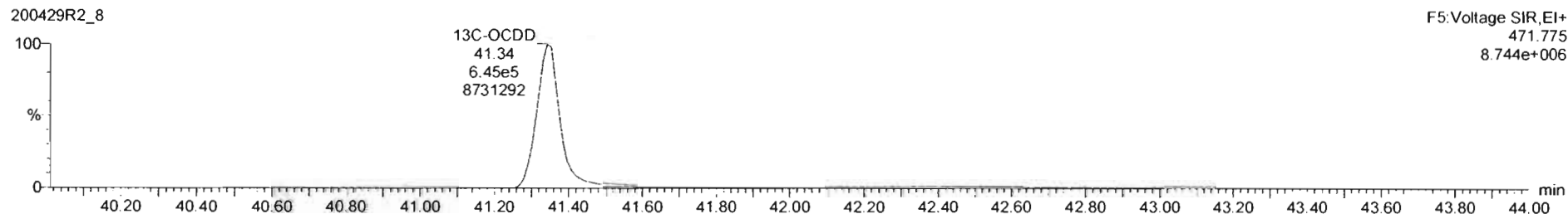
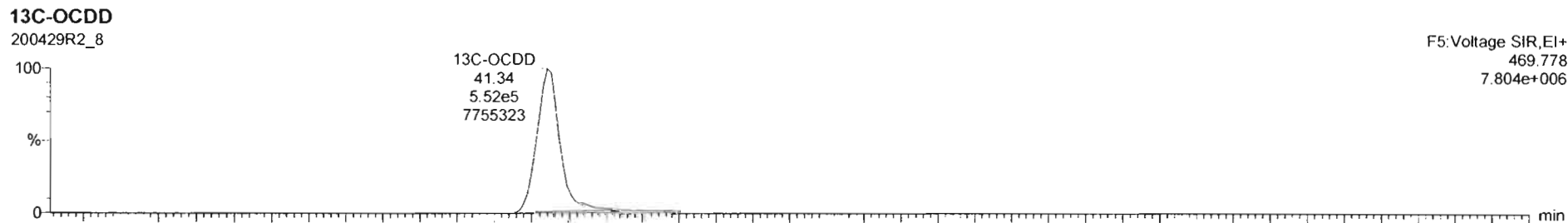
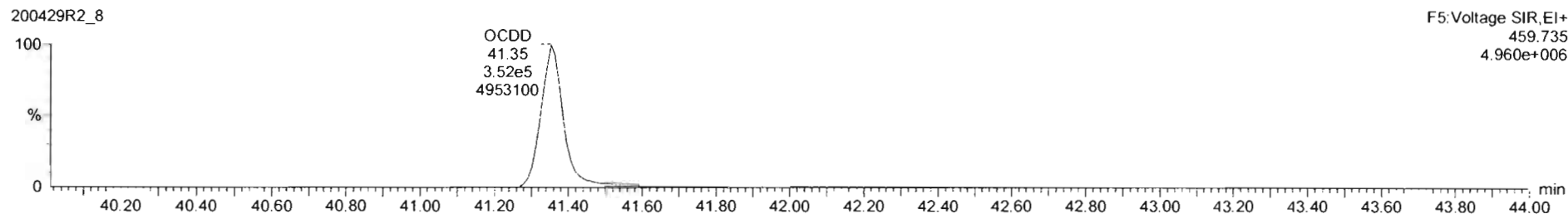
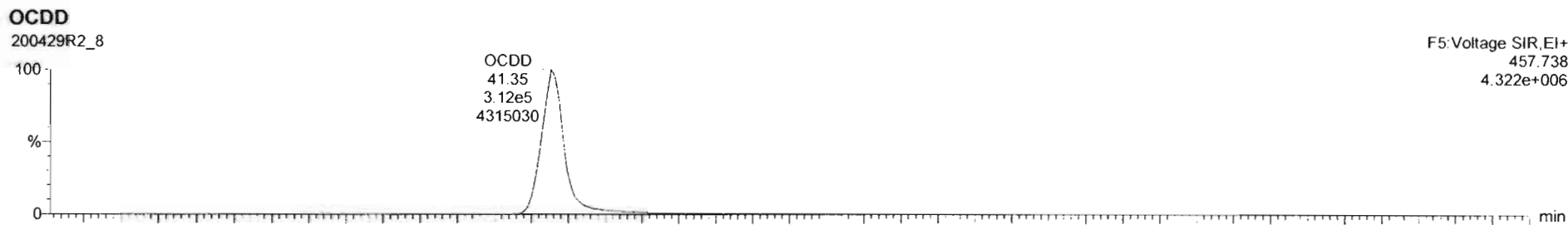
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Dataset: Untitled

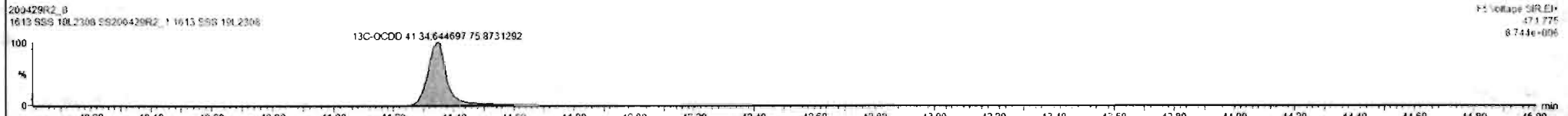
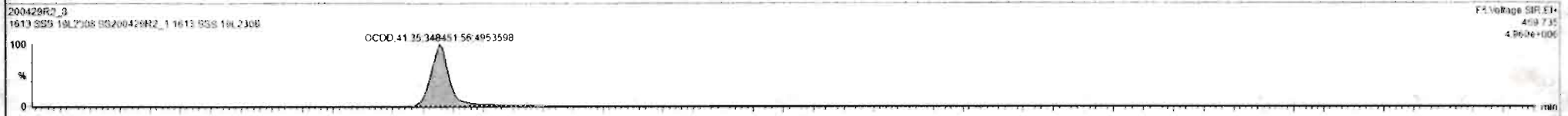
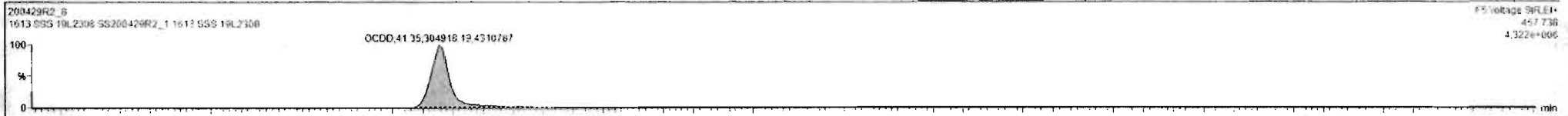
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Name: 200429R2\_8, Date: 29-Apr-2020, Time: 18:58:05, ID: SS200429R2\_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308



Name	Resp	RA	inj	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.63e5	0.76	NO	0.9475	1.000	26.07	1.001	11.2	11.2	0.0427	11.2
2 1,2,3,7,8-PeCDD	5.70e5	0.83	NO	0.9425	1.000	31.14	1.000	56.1	11.2	0.0577	56.1
3 1,2,3,4,7,8-HxCDD	4.91e5	1.24	NO	1.0641	1.000	34.51	1.000	56.0	11.6	0.102	56.0
4 1,2,3,6,7,8-HxCDD	5.43e5	1.25	NO	0.9145	1.000	34.61	1.001	57.4	11.5	0.105	57.4
5 1,2,3,7,8,9-HxCDD	4.78e5	1.25	NO	0.9149	1.000	34.88	1.000	58.2	11.6	0.120	58.2
6 1,2,3,4,6,7,8-HpCDD	3.45e5	1.04	NO	0.8919	1.000	36.38	1.001	56.7	11.3	0.145	56.7
7 OCDD	6.53e5	0.55	NO	0.9325	1.000	41.35	1.000	117	11.7	0.107	117
8 2,3,7,8-TCDF	1.99e5	0.73	NO	0.7871	1.000	25.12	1.001	11.2	11.2	0.0306	11.2
9 1,2,3,7,8-PeCDF	5.00e5	1.54	NO	0.9102	1.000	29.83	1.001	55.8	11.2	0.0810	55.8
10 2,3,4,7,8-PeCDF	1.00e6	1.53	NO	0.9664	1.000	30.82	1.000	60.8	12.2	0.0765	60.8
11 1,2,3,4,7,8-HxCDF	5.51e5	1.22	NO	0.8782	1.000	33.64	1.000	55.9	11.2	0.109	55.9
12 1,2,3,6,7,8-HxCDF	6.22e5	1.22	NO	0.8740	1.000	33.78	1.000	56.5	11.3	0.107	56.5
13 2,3,4,6,7,8-HxCDF	5.78e5	1.19	NO	0.9217	1.000	34.33	1.000	56.2	11.2	0.118	56.2
14 1,2,3,7,8,9-HxCDF	4.76e5	1.19	NO	0.8542	1.000	35.22	1.000	55.3	11.1	0.152	55.3
15 1,2,3,4,6,7,8-HpCDF	4.11e5	0.98	NO	0.8712	1.000	36.97	1.001	54.9	11.0	0.153	54.9
16 1,2,3,4,7,8,9-HpCDF	2.99e5	0.98	NO	1.0116	1.000	36.95	1.000	57.2	11.4	0.204	57.2
17 OCDF	0.13e5	0.66	NO	0.8021	1.000	41.53	1.000	115	11.5	0.158	115



Custom Reporting: Select reports to generate

200429R2\_8

CAP NUM

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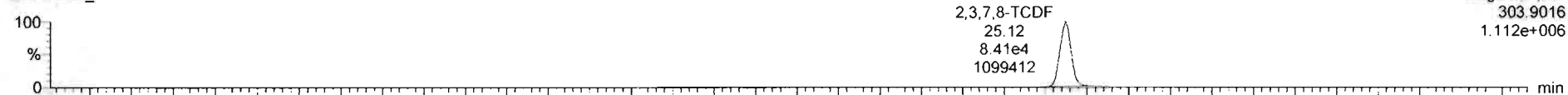
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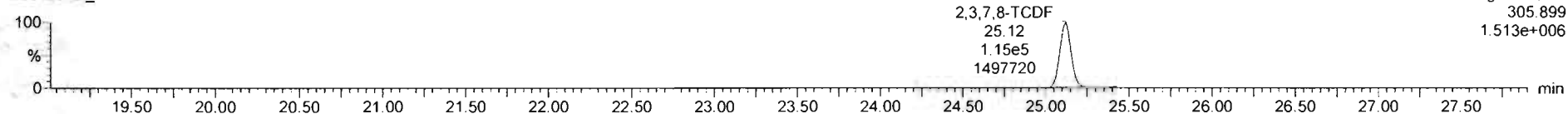
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**2,3,7,8-TCDF**

200429R2\_8

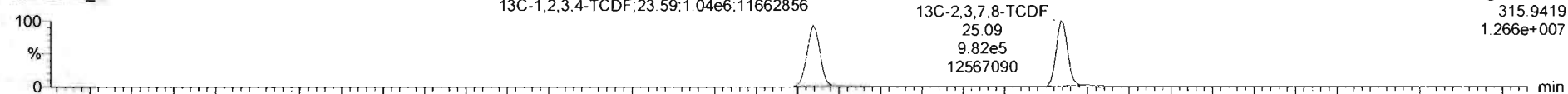


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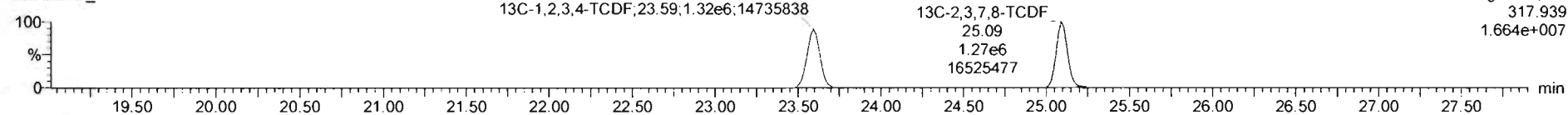


**13C-2,3,7,8-TCDF**

200429R2\_8

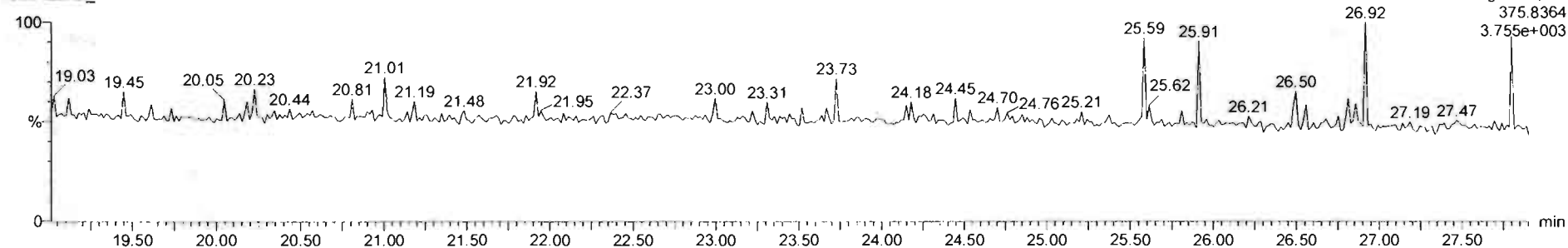


200429R2\_8



**DPE1**

200429R2\_8



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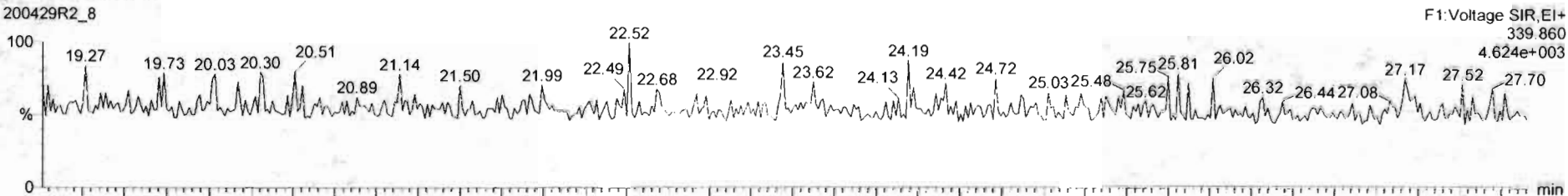
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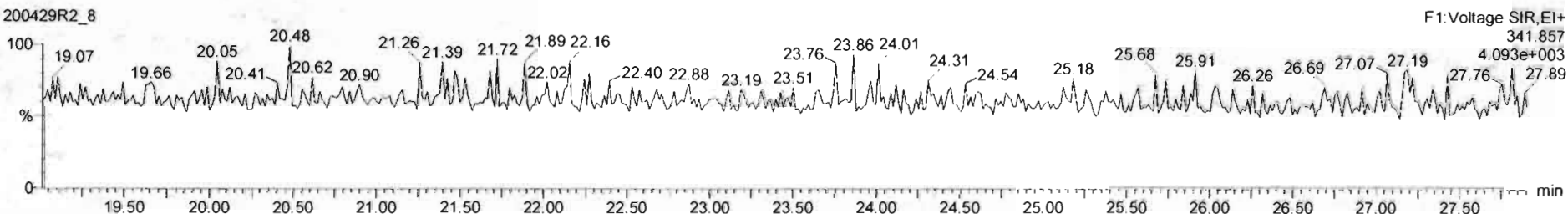
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200429R2\_8

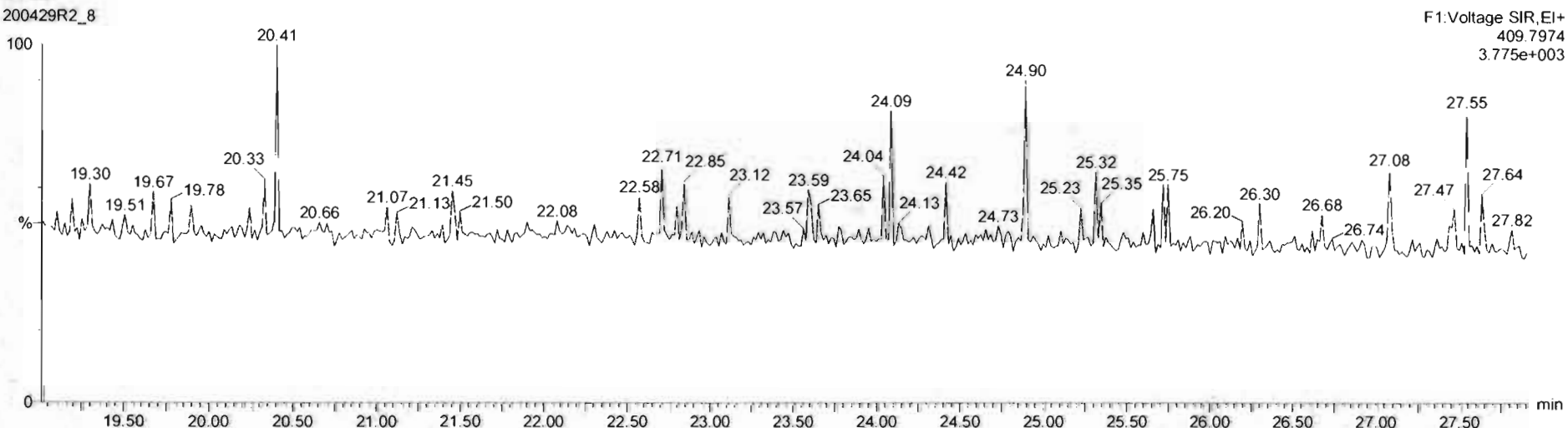


200429R2\_8



DPE6

200429R2\_8



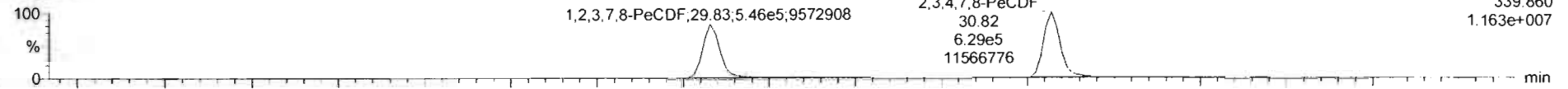
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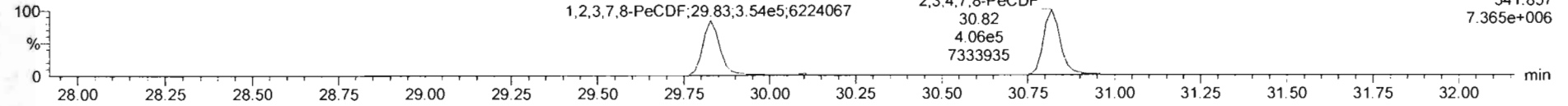
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**1,2,3,7,8-PeCDF**

200429R2\_8

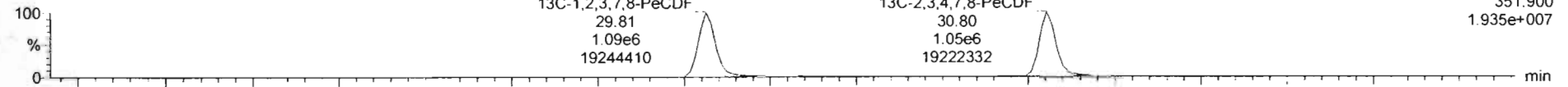


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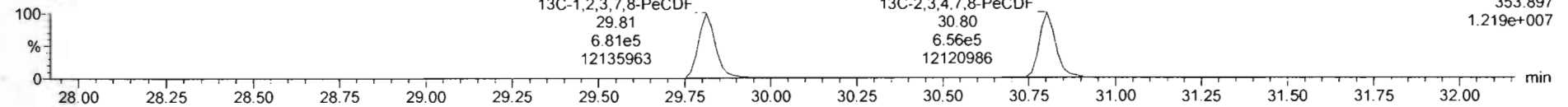


**13C-1,2,3,7,8-PeCDF**

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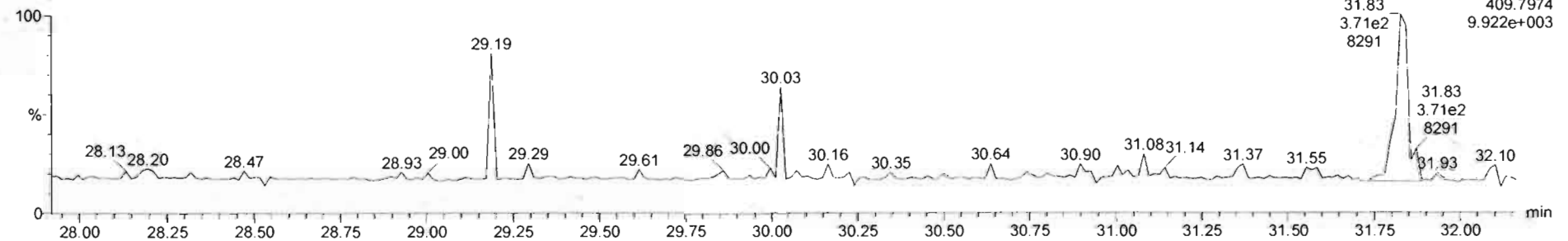


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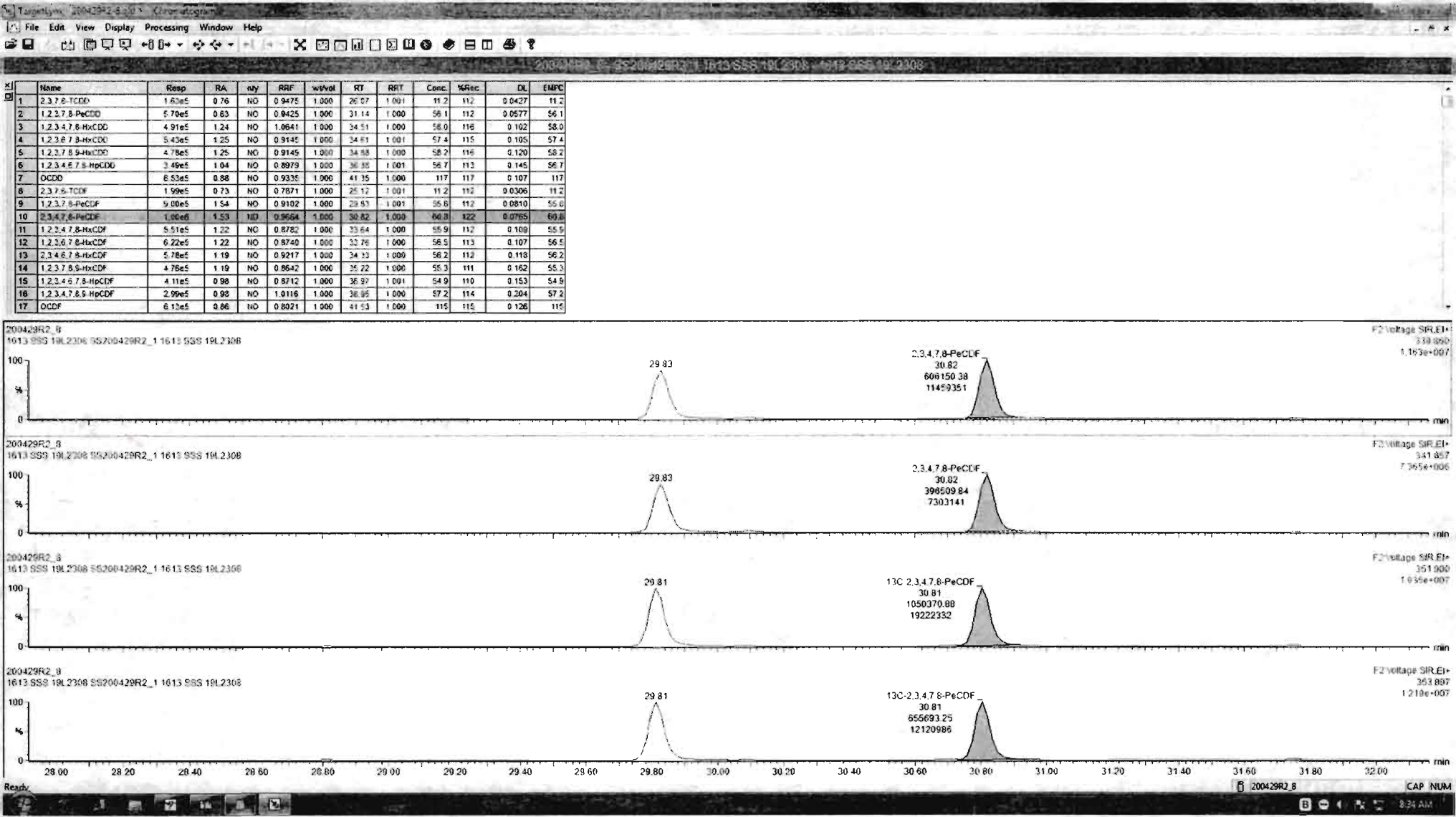


**DPE2**

200429R2\_8







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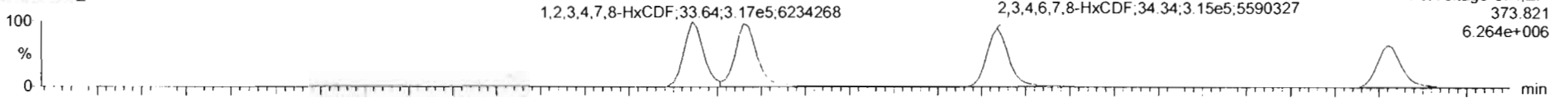
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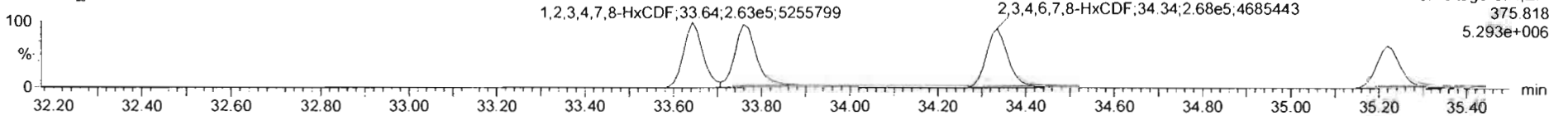
Name: 200429R2\_8, Date: 29-Apr-2020, Time: 18:58:05, ID: SS200429R2\_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200429R2\_8

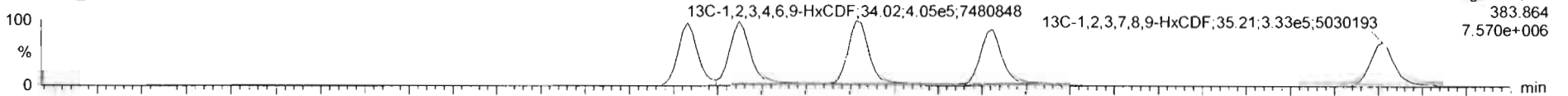


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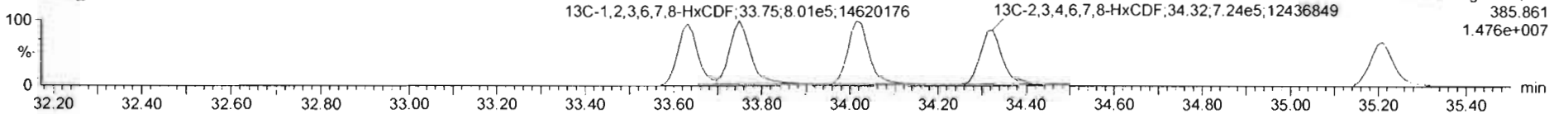


**13C-1,2,3,4,7,8-HxCDF**

200429R2\_8

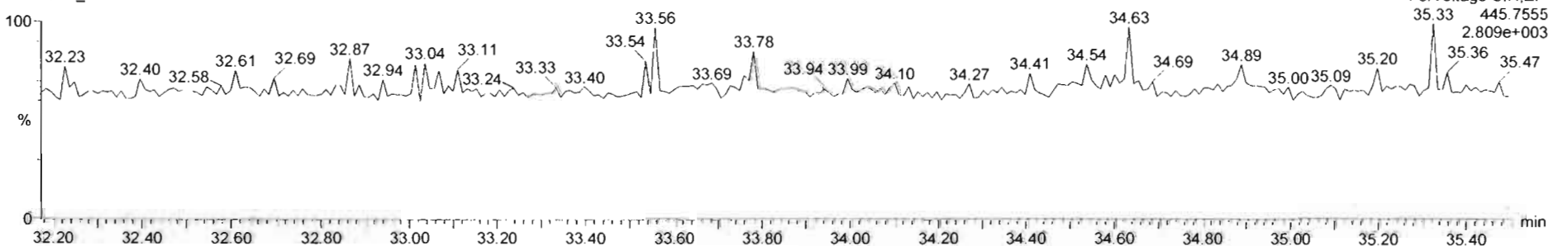


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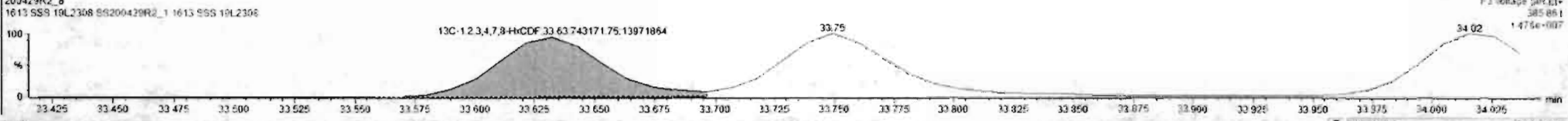
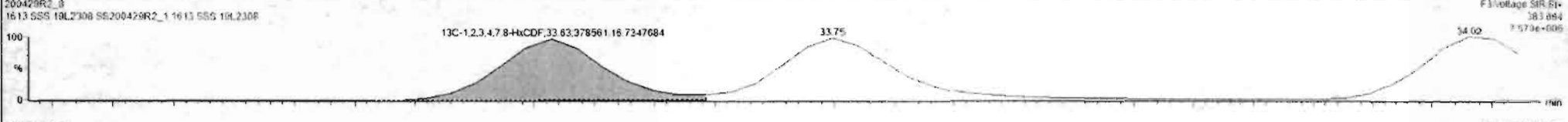
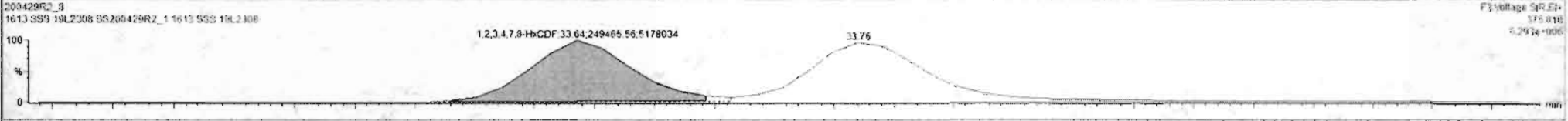
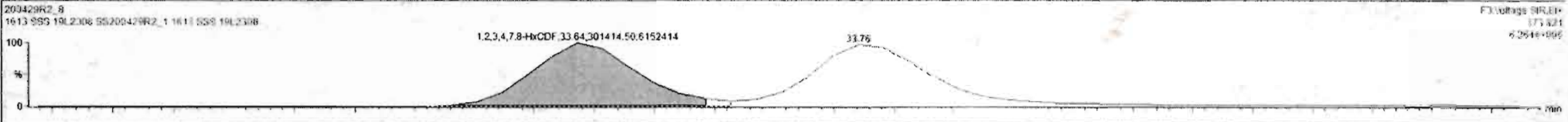
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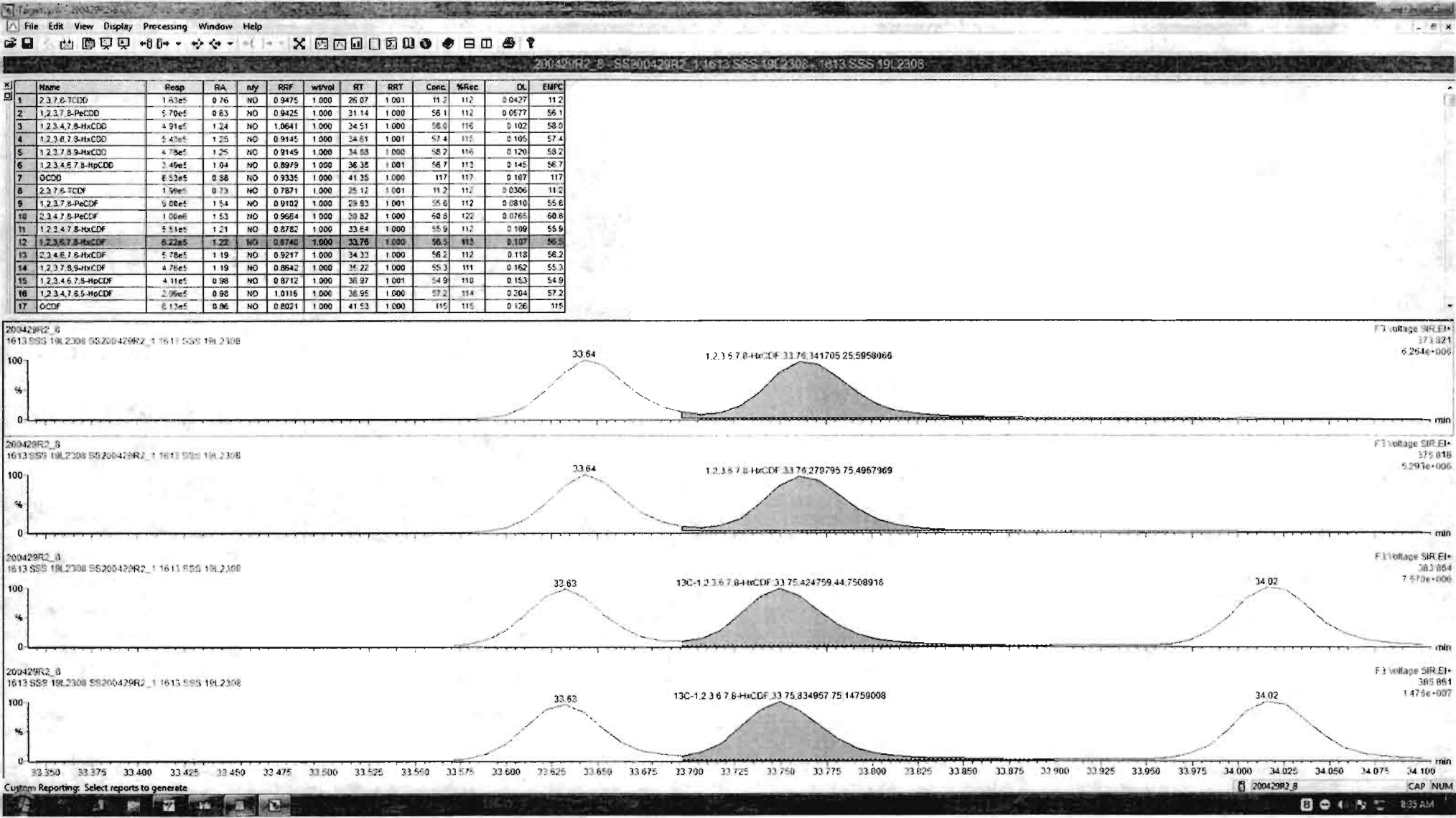
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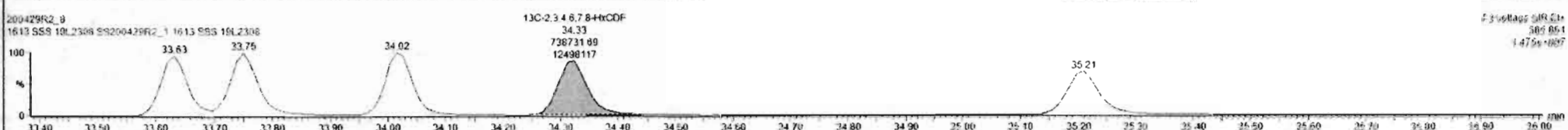
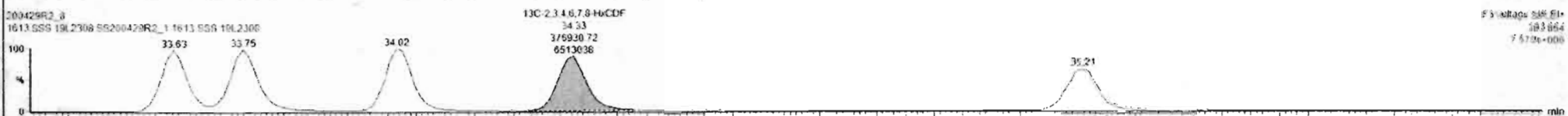
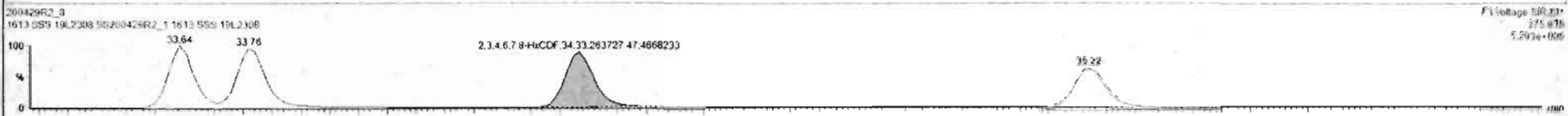
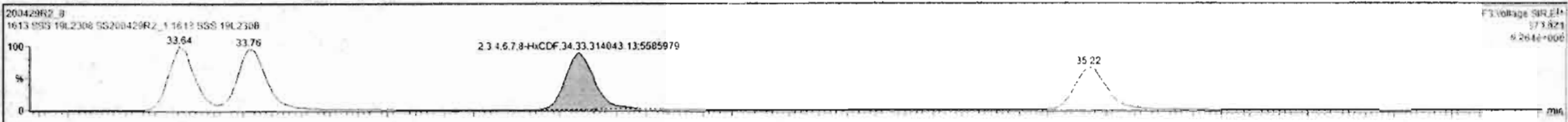
200429R2\_8 - SS200429R2\_1 1613 SSS 19L2308 - 1613 SSS 19L2308

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1	2,3,7,8-TCDF	1.63e5	0.76	NO	0.9475	1.000	26.07	1.001	11.2	112	0.0427	11.2
2	1,2,3,7,8-PeCDF	5.79e5	0.83	NO	0.9425	1.000	31.14	1.000	56.1	112	0.0577	56.1
3	1,2,3,4,7,8-HxCDD	4.91e5	1.24	NO	1.0641	1.000	34.51	1.000	58.0	116	0.102	58.0
4	1,2,3,6,7,8-HxCDD	5.43e5	1.25	NO	0.9145	1.000	34.01	1.001	57.4	115	0.105	57.4
5	1,2,3,7,8,9-HxCDD	4.78e5	1.25	NO	0.9149	1.000	34.08	1.000	58.2	116	0.120	58.2
6	1,2,3,4,6,7,8-HpCDD	3.45e5	1.04	NO	0.8979	1.000	36.36	1.001	56.7	113	0.145	56.7
7	OCDD	6.53e5	0.88	NO	0.9335	1.000	41.35	1.000	117	117	0.107	117
8	2,3,7,8-TCDF	1.99e5	0.73	NO	0.7871	1.000	25.12	1.001	11.2	112	0.0306	11.2
9	1,2,3,7,8-PeCDF	9.08e5	1.54	NO	0.9192	1.000	29.93	1.001	55.6	112	0.0810	55.6
10	2,3,4,7,8-PeCDF	1.00e5	1.53	NO	0.9664	1.000	30.82	1.000	60.8	122	0.0765	60.8
11	1,2,3,4,7,8-HxCDF	5.51e5	1.31	NO	0.6782	1.000	33.64	1.000	55.9	112	0.109	55.9
12	1,2,3,6,7,8-HxCDF	6.22e5	1.22	NO	0.8740	1.000	33.76	1.000	56.5	113	0.107	56.5
13	2,3,4,6,7,8-HxCDF	5.78e5	1.19	NO	0.9217	1.000	34.33	1.000	56.2	112	0.118	56.2
14	1,2,3,7,8,9-HxCDF	4.78e5	1.19	NO	0.8642	1.000	35.22	1.000	55.3	111	0.162	55.3
15	1,2,3,4,6,7,8-HpCDF	4.11e5	0.98	NO	0.8712	1.000	36.97	1.001	54.9	110	0.153	54.9
16	1,2,3,4,7,8,9-HpCDF	2.96e5	0.98	NO	1.0116	1.000	36.95	1.000	57.2	114	0.204	57.2
17	OCDF	6.13e5	0.86	NO	0.8021	1.000	41.53	1.000	115	115	0.126	115

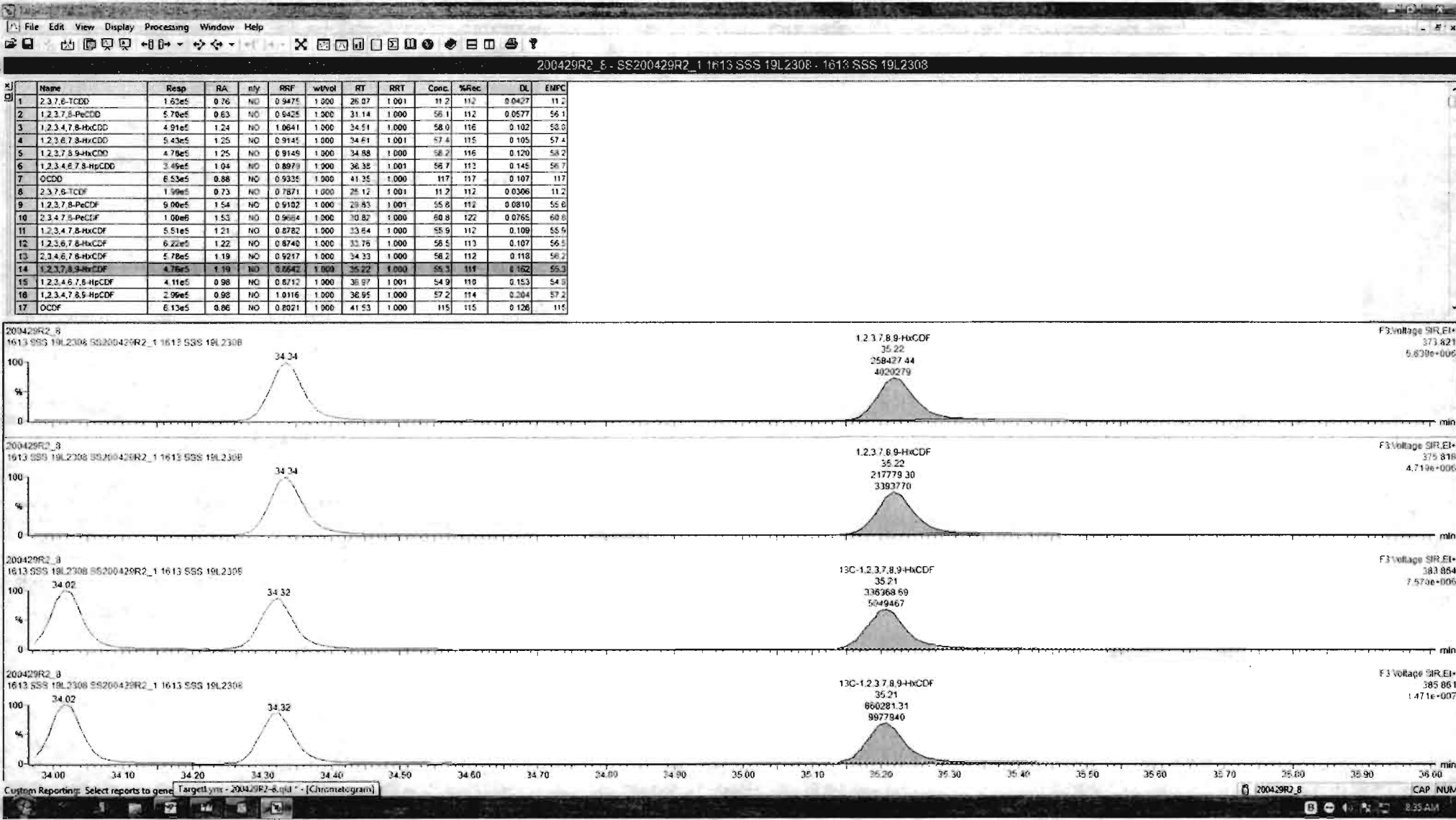




#	Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc.	%Rec	DL	EMPC
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2	1,2,3,7,8-PeCDD	5.70e5	0.83	NO	0.9425	1.000	31.14	1.000	56.1	11.2	0.0577	56.1
3	1,2,3,4,7,8-HxCDD	4.91e5	1.24	NO	1.0641	1.000	34.51	1.000	58.0	11.6	0.102	58.0
4	1,2,3,6,7,8-HxCDD	5.43e5	1.25	NO	0.9145	1.000	34.61	1.001	57.4	11.6	0.105	57.4
5	1,2,3,7,8,9-HxCDD	4.78e5	1.25	NO	0.9145	1.000	34.88	1.000	58.2	11.6	0.120	58.2
6	1,2,3,4,6,7,8-HpCDD	3.45e5	1.04	NO	0.8979	1.000	36.38	1.001	58.7	11.3	0.145	56.7
7	OCDD	6.53e5	0.88	NO	0.9335	1.000	41.35	1.000	117	11.7	0.107	117
8	2,3,7,8-TCDF	1.59e5	0.73	NO	0.7871	1.000	25.12	1.001	11.2	11.2	0.0306	11.2
9	1,2,3,7,8-PeCDF	9.00e5	1.54	NO	0.9102	1.000	29.83	1.001	55.8	11.2	0.0810	55.6
10	2,3,4,7,8-PeCDF	1.00e6	1.52	NO	0.9654	1.000	29.82	1.000	60.8	12.2	0.0765	60.8
11	1,2,3,4,7,8-HxCDF	5.51e5	1.21	NO	0.8782	1.000	33.64	1.000	55.9	11.2	0.109	55.9
12	1,2,3,6,7,8-HxCDF	6.22e5	1.22	NO	0.8740	1.000	33.76	1.000	56.5	11.3	0.107	56.5
13	2,3,4,6,7,8-HxCDF	5.79e5	1.18	NO	0.9217	1.000	34.33	1.000	56.2	11.2	0.118	56.2
14	1,2,3,7,8,9-HxCDF	4.76e5	1.19	NO	0.8642	1.000	35.22	1.000	55.3	11.1	0.162	55.3
15	1,2,3,4,6,7,8-HpCDF	4.11e5	0.98	NO	0.8712	1.000	36.97	1.001	54.9	11.0	0.153	54.9
16	1,2,3,4,7,8,9-HoCDF	2.96e5	0.98	NO	1.0116	1.000	36.95	1.000	57.2	11.4	0.204	57.2
17	OCDF	6.13e5	0.86	NO	0.8021	1.000	41.53	1.000	115	11.6	0.126	115



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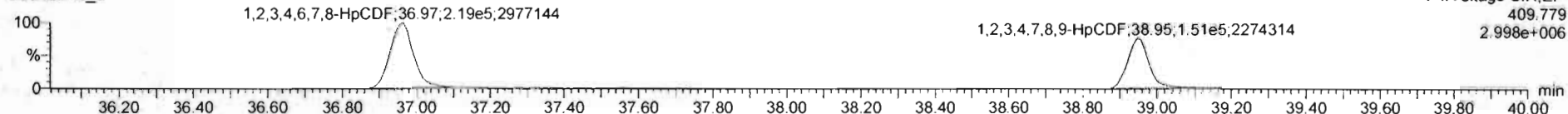
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**1,2,3,4,6,7,8-HpCDF**

200429R2\_8

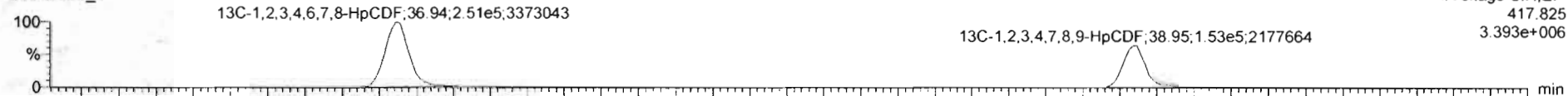


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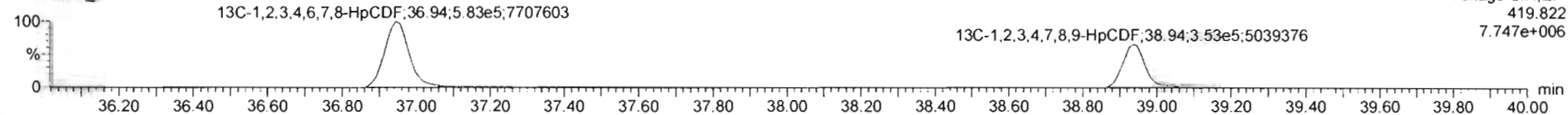


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200429R2\_8

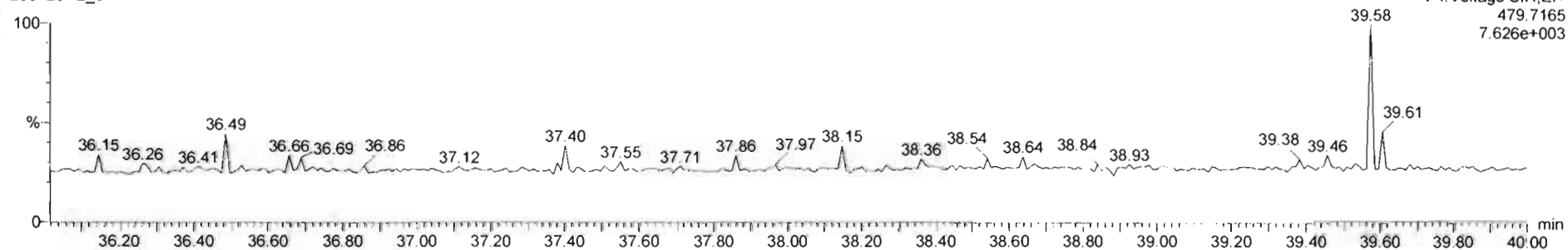


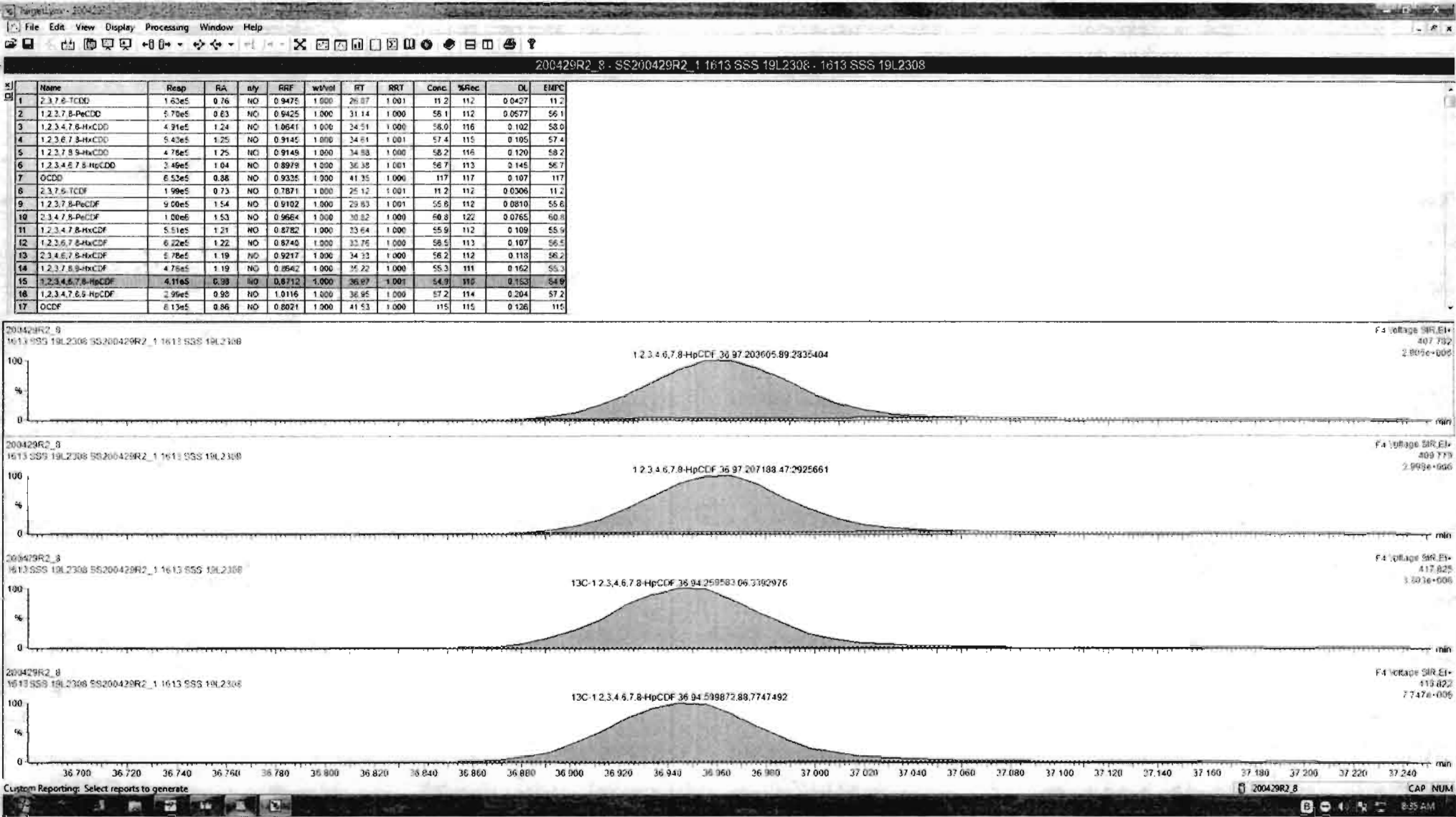
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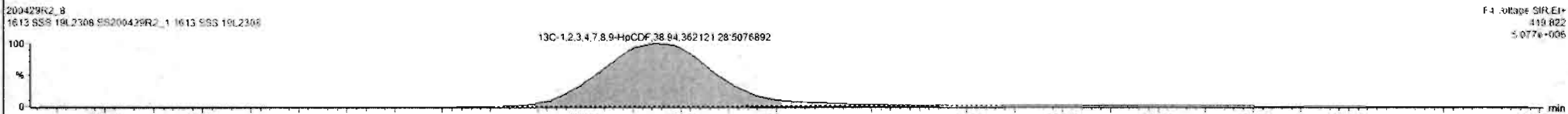
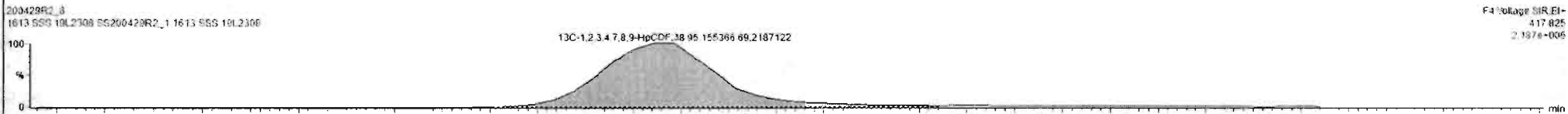
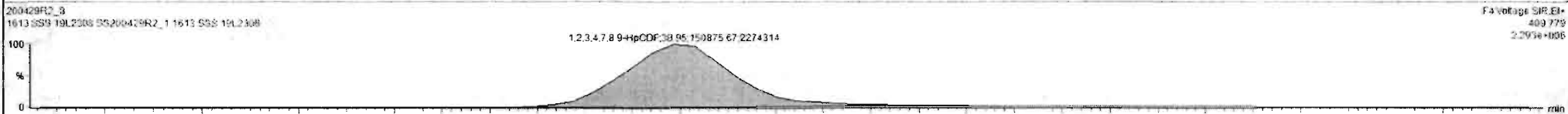
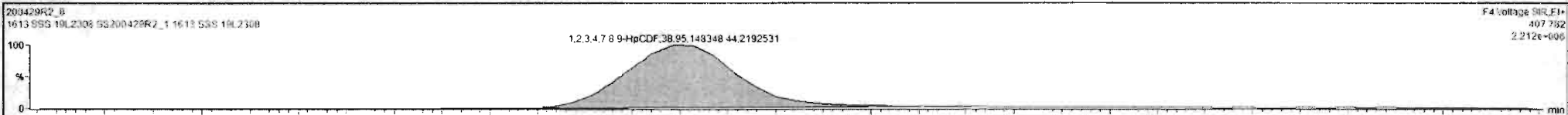
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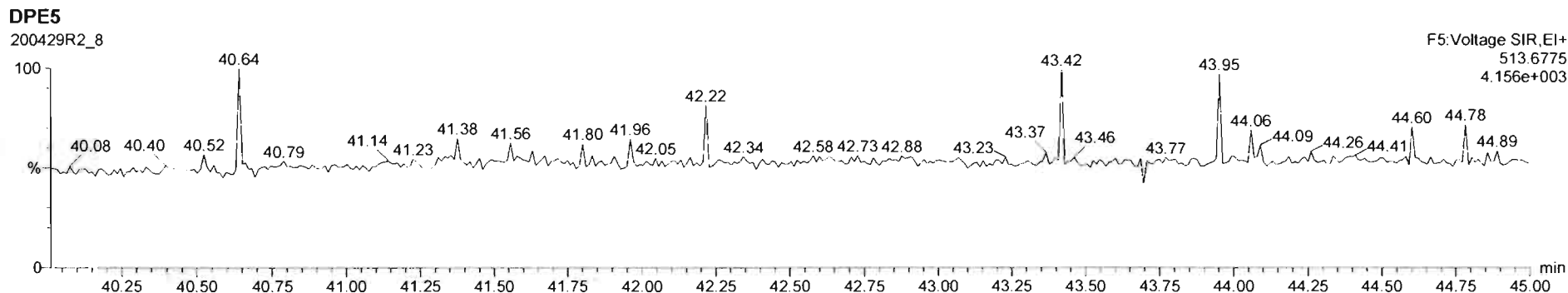
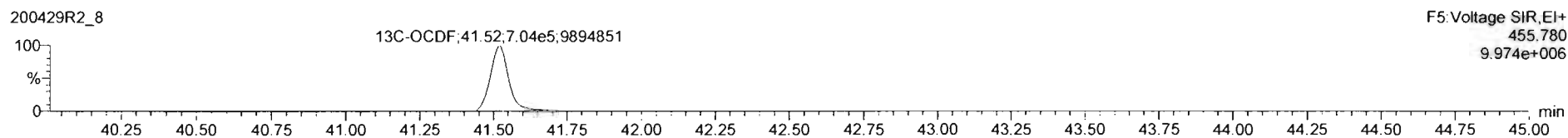
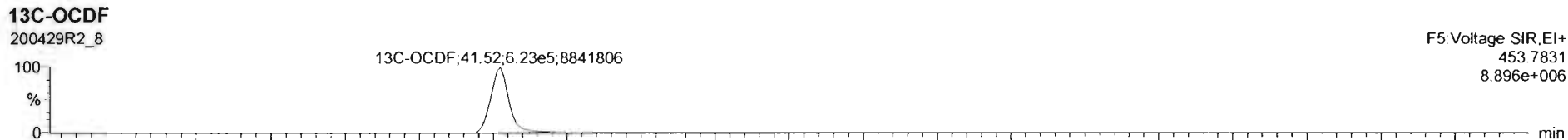
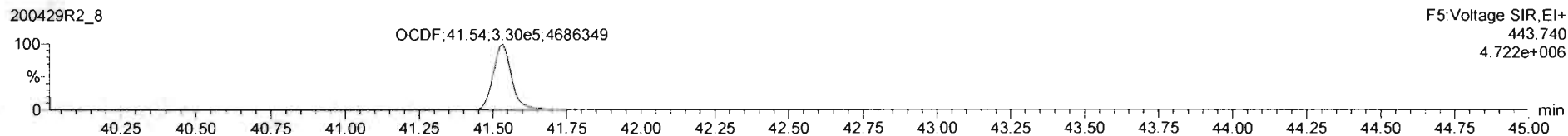
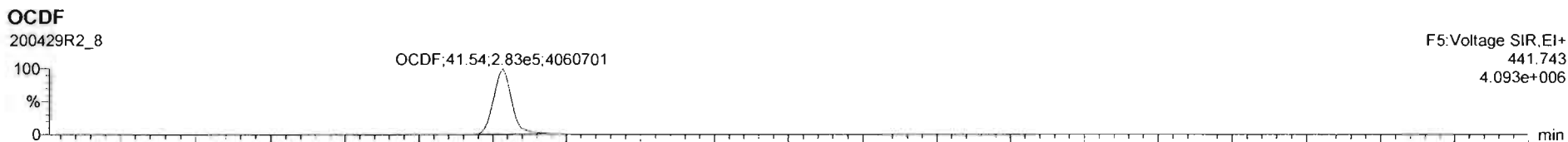
Name	Resp	RA	dy	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.63e5	0.76	NO	0.9475	1.000	26.07	1.001	11.2	11.2	0.0427	11.2
2 1,2,3,7,8-PeCDD	4.70e5	0.83	NO	0.9425	1.000	31.14	1.000	58.1	11.2	0.0577	56.1
3 1,2,3,4,7,8-HxCDD	4.91e5	1.24	NO	1.0641	1.000	34.51	1.000	58.0	11.6	0.102	58.0
4 1,2,3,6,7,8-HxCDD	5.43e5	1.25	NO	0.9145	1.000	34.61	1.001	57.4	11.5	0.105	57.4
5 1,2,3,7,8,9-HxCDD	4.76e5	1.25	NO	0.9145	1.000	34.68	1.000	58.2	11.6	0.120	58.2
6 1,2,3,4,6,7,8-HpCDD	3.45e5	1.04	NO	0.8979	1.000	36.35	1.001	56.7	11.2	0.145	56.7
7 OCDD	6.53e5	0.88	NO	0.9335	1.000	41.35	1.000	117	11.7	0.107	117
8 2,3,7,8-TCDF	1.99e5	0.73	NO	0.7871	1.000	25.12	1.001	11.2	11.2	0.0306	11.2
9 1,2,3,7,8-PeCDF	9.00e5	1.54	NO	0.9102	1.000	29.63	1.001	55.6	11.2	0.0810	55.6
10 2,3,4,7,8-PeCDF	1.00e5	1.53	NO	0.9664	1.000	30.82	1.000	60.8	12.2	0.0765	60.8
11 1,2,3,4,7,8-HxCDF	5.51e5	1.21	NO	0.8782	1.000	33.84	1.000	55.9	11.2	0.109	55.9
12 1,2,3,6,7,8-HxCDF	6.22e5	1.22	NO	0.8740	1.000	33.76	1.000	58.5	11.3	0.107	56.5
13 2,3,4,6,7,8-HxCDF	4.78e5	1.19	NO	0.9217	1.000	34.33	1.000	56.2	11.2	0.118	56.2
14 1,2,3,7,8,9-HxCDF	4.76e5	1.19	NO	0.8642	1.000	34.22	1.000	55.3	11.1	0.162	55.3
15 1,2,3,4,6,7,8-HpCDF	4.11e5	0.86	NO	0.8712	1.000	35.97	1.001	54.9	11.0	0.153	54.9
16 1,2,3,4,7,8,9-HpCDF	2.95e5	0.96	NO	1.0115	1.000	35.95	1.000	57.2	11.4	0.204	57.2
17 OCDF	6.13e5	0.86	NO	0.8021	1.000	41.53	1.000	115	11.5	0.126	115



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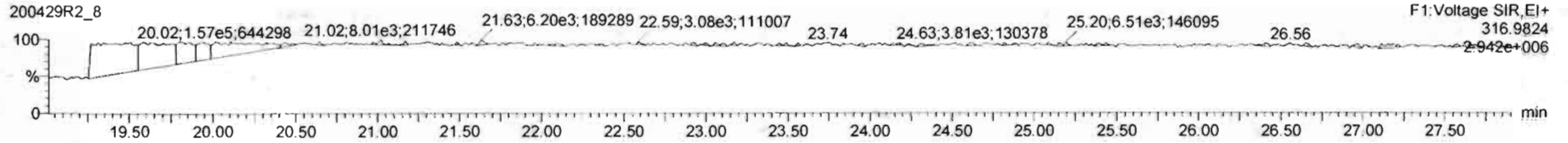
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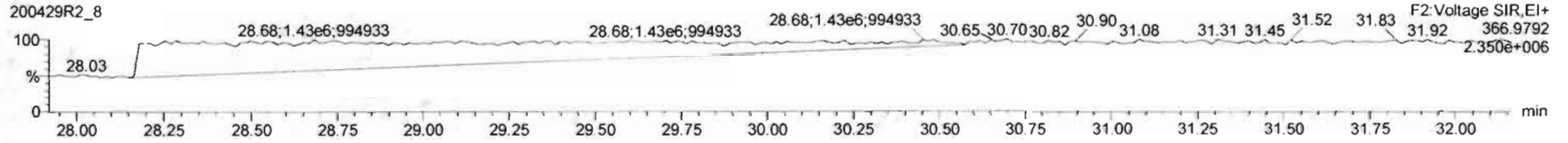
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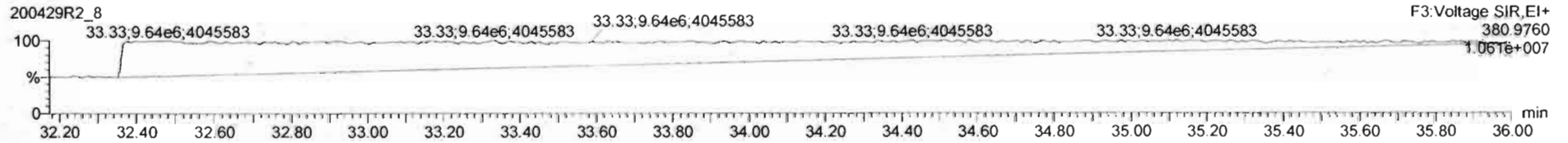
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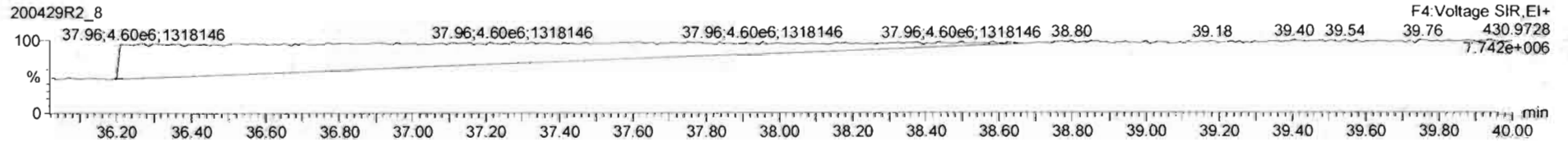
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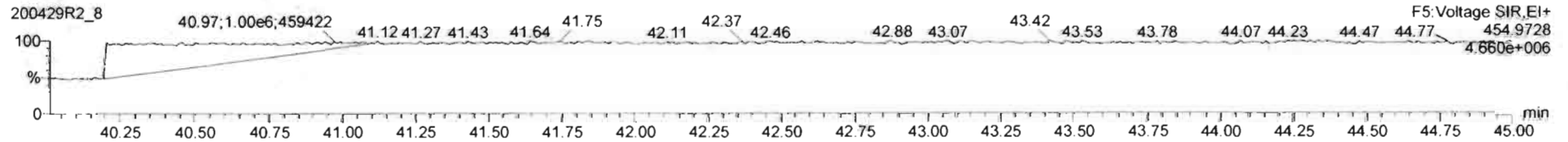
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**PFK4**



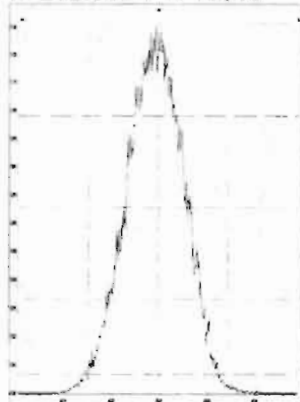
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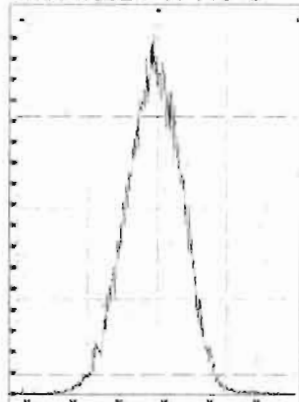
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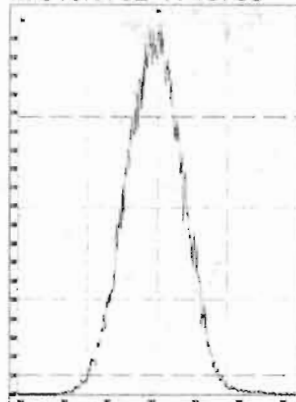
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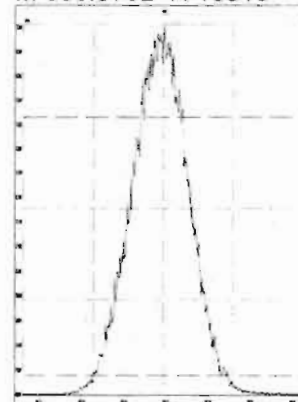
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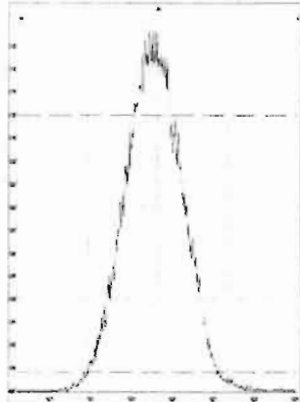
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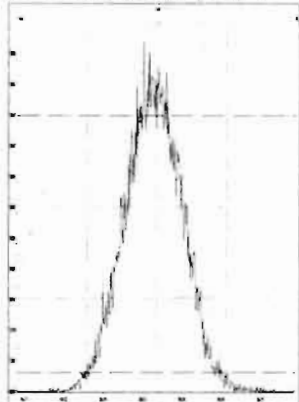
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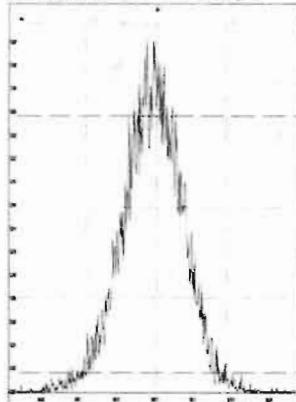
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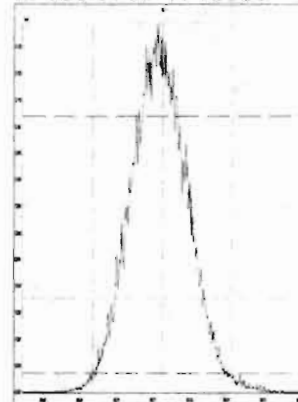
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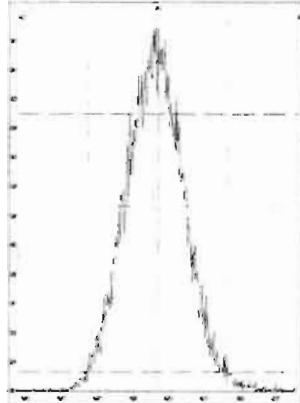
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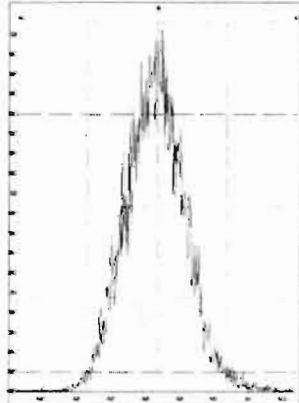
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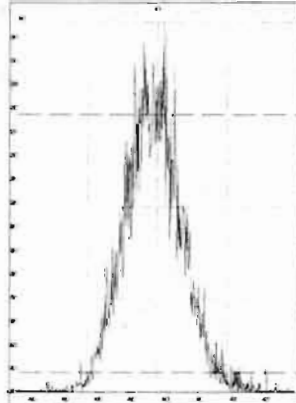
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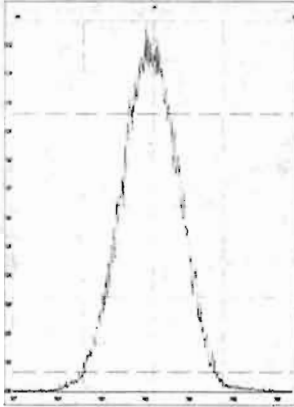
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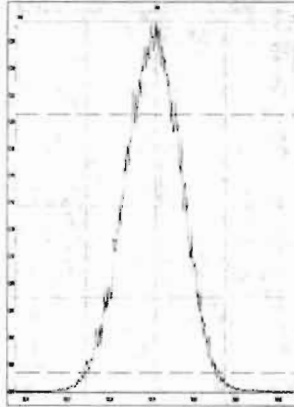
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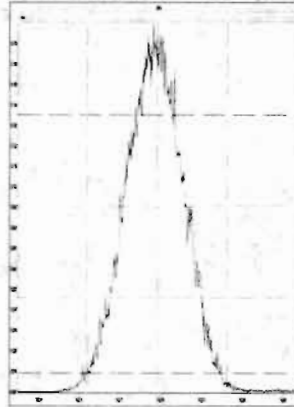
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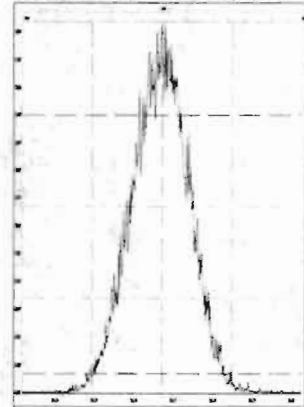
M 330.9792 R 10547



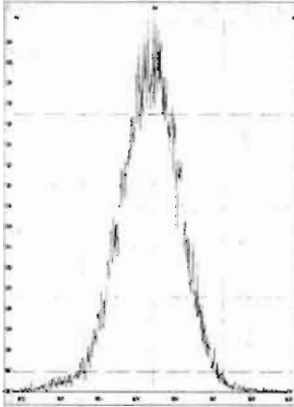
M 342.9792 R 10640



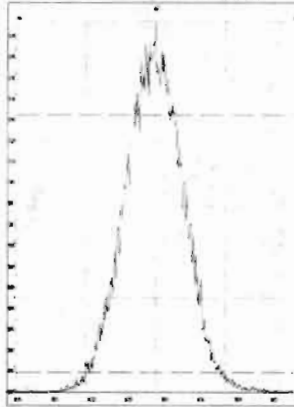
M 354.9792 R 10822



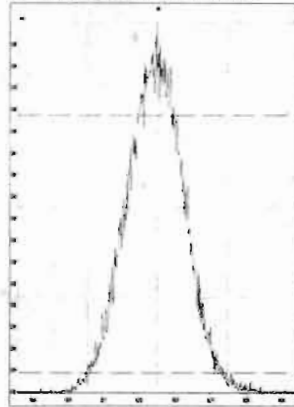
M 366.9792 R 10681



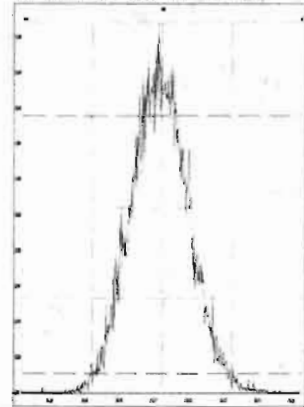
M 380.9760 R 10374



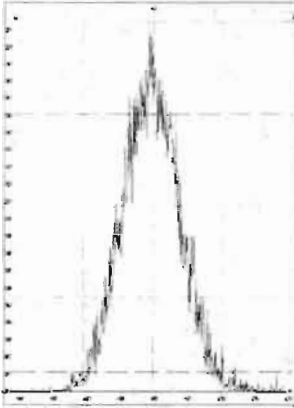
M 392.9760 R 10329



M 404.9760 R 10730



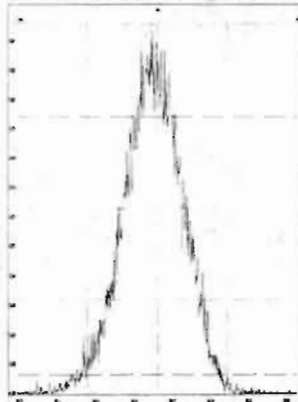
M 416.9760 R 12018



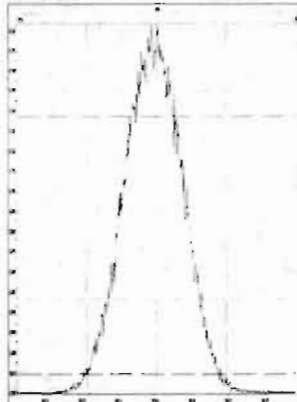
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Thursday, April 30, 2020 07:17:57 Pacific Daylight Time

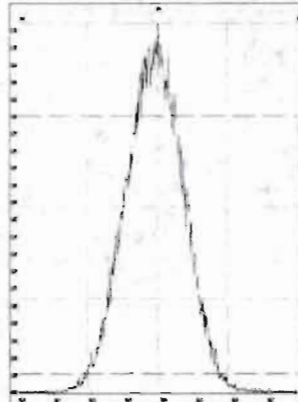
M 366.9792 R 10079



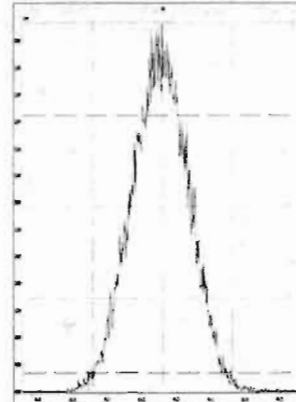
M 380.9760 R 10590



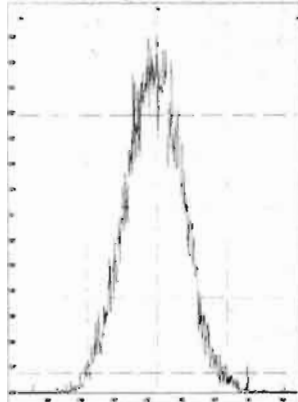
M 392.9760 R 10592



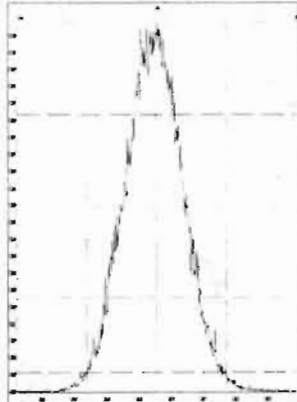
M 404.9760 R 11010



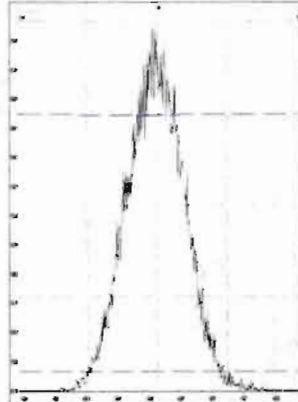
M 416.9760 R 10964



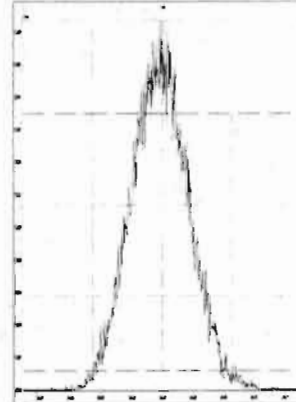
M 430.9728 R 10415



M 442.9728 R 10730



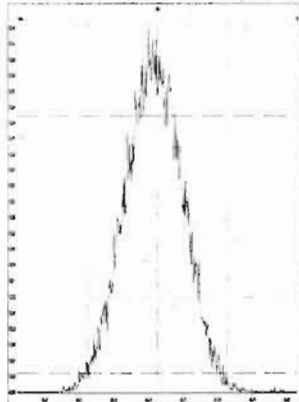
M 454.9728 R 11260



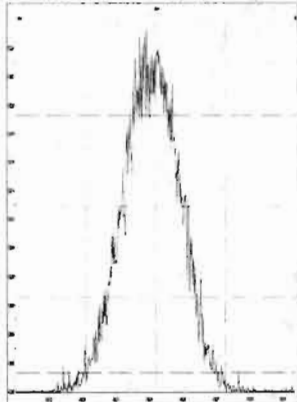
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Thursday, April 30, 2020 07:18:12 Pacific Daylight Time

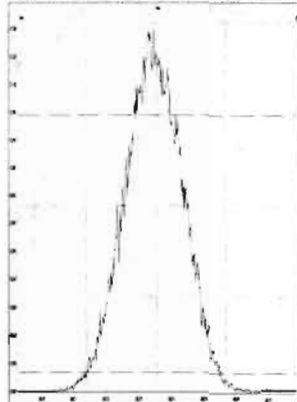
M 404.9760 R 10682



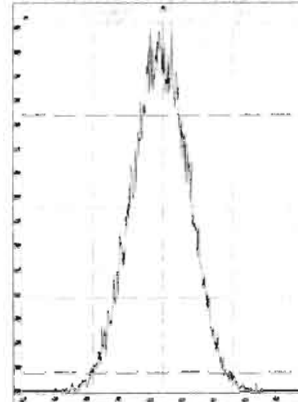
M 416.9760 R 10776



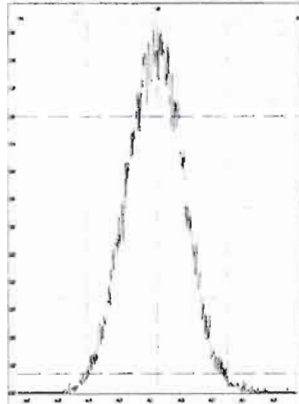
M 430.9728 R 10503



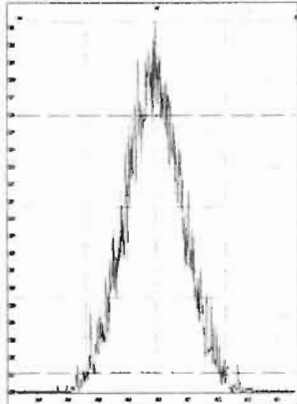
M 442.9728 R 10505



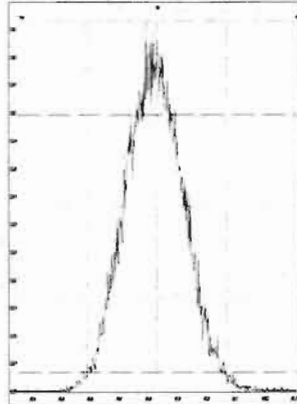
M 454.9728 R 10460



M 466.9728 R 10591



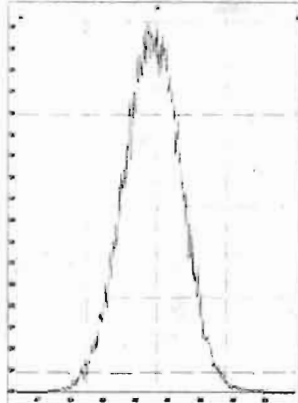
M 480.9696 R 10040



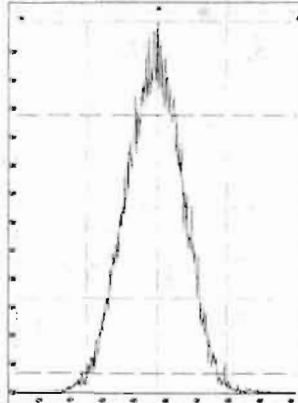
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Thursday, April 30, 2020 07:18:29 Pacific Daylight Time

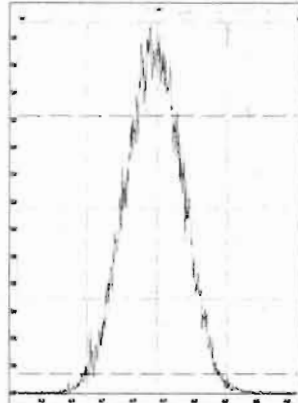
M 430.9728 R 10684



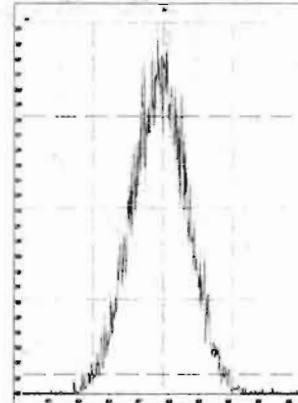
M 442.9728 R 10637



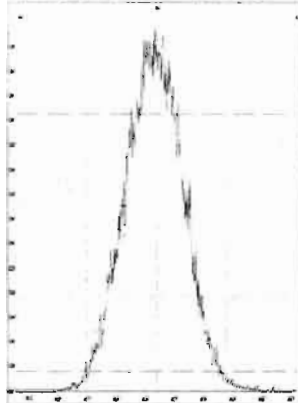
M 454.9728 R 11259



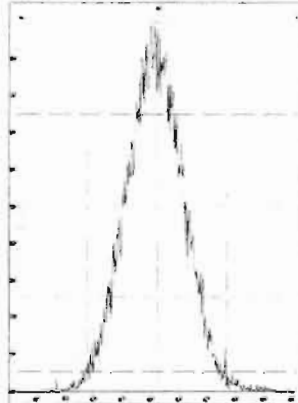
M 466.9728 R 11261



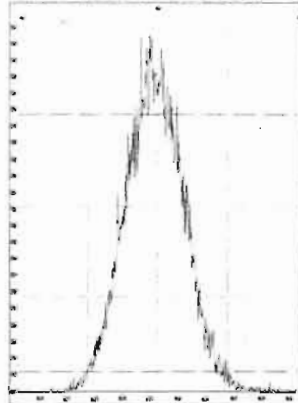
M 480.9696 R 10728



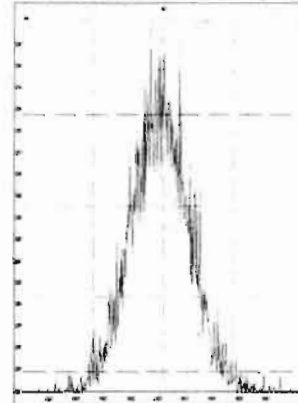
M 492.9696 R 10867



M 504.9696 R 10869



M 516.9697 R 11738





Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:35:39 Pacific Standard Time

*DB 2/12/20 0102/12/2020*

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24  
Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

**Compound name: 2,3,7,8-TCDF**

Response Factor: 0.9819

RRF SD: 0.0791981, Relative SD: 8.06581

Response type: Internal Std ( Ref 2 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	0.250	0.86	NO	17.23	3.04e2	1.39e5	0.223	0.876
2	2 200211D2_4	0.500	0.66	NO	17.22	6.08e2	1.13e5	0.549	1.08
3	3 200211D2_5	2.00	0.73	NO	17.23	2.63e3	1.30e5	2.06	1.01
4	4 200211D2_6	10.0	0.75	NO	17.23	1.15e4	1.25e5	9.33	0.916
5	5 200211D2_7	40.0	0.74	NO	17.23	5.76e4	1.51e5	39.0	0.957
6	6 200211D2_8	300	0.73	NO	17.23	4.81e5	1.52e5	321	1.05

**Compound name: 13C-2,3,7,8-TCDF**

Response Factor: 1.08271

RRF SD: 0.0939058, Relative SD: 8.67318

Response type: Internal Std ( Ref 3 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	100	0.72	NO	17.20	1.39e5	1.13e5	113	1.23
2	2 200211D2_4	100	0.71	NO	17.20	1.13e5	1.14e5	91.7	0.993
3	3 200211D2_5	100	0.71	NO	17.20	1.30e5	1.34e5	89.3	0.967
4	4 200211D2_6	100	0.75	NO	17.20	1.25e5	1.15e5	101	1.09
5	5 200211D2_7	100	0.71	NO	17.20	1.51e5	1.35e5	103	1.11
6	6 200211D2_8	100	0.72	NO	17.20	1.52e5	1.38e5	102	1.11

Vista Analytical Laboratory VG-9

Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:35:39 Pacific Standard Time

**Compound name: 13C-1,2,3,4-TCDF**

Response Factor: 1

RRF SD: 7.02167e-017, Relative SD: 7.02167e-015

Response type: Internal Std ( Ref 3 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	100	0.70	NO	15.17	1.13e5	1.13e5	100	1.00
2	2 200211D2_4	100	0.71	NO	15.18	1.14e5	1.14e5	100	1.00
3	3 200211D2_5	100	0.74	NO	15.17	1.34e5	1.34e5	100	1.00
4	4 200211D2_6	100	0.72	NO	15.17	1.15e5	1.15e5	100	1.00
5	5 200211D2_7	100	0.73	NO	15.17	1.35e5	1.35e5	100	1.00
6	6 200211D2_8	100	0.73	NO	15.17	1.38e5	1.38e5	100	1.00

**Compound name: 13C-1,2,3,4-TCDD**

Response Factor: 1026.38

RRF SD: 123.841, Relative SD: 12.0658

Response type: External Std, Area

Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	100	0.79	NO	15.78	1.04e5		102	1040
2	2 200211D2_4	100	0.77	NO	15.78	8.57e4		83.5	857
3	3 200211D2_5	100	0.79	NO	15.78	9.44e4		92.0	944
4	4 200211D2_6	100	0.79	NO	15.78	9.87e4		96.1	987
5	5 200211D2_7	100	0.78	NO	15.78	1.13e5		110	1130
6	6 200211D2_8	100	0.78	NO	15.78	1.20e5		116	1200

Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24

Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

Name: 200211D2\_3, Date: 11-Feb-2020, Time: 21:00:36, ID: ST200211D2-1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

	# Name	Resp	RA	n/y	RRF M...	w/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	3.04e2	0.86	NO	0.982	1.000	17.23	0.22305	89.2	0.0931
2	2 13C-2,3,7,8-TCDF	1.39e5	0.72	NO	1.08	1.000	17.20	113.42	113	0.342
3	3 13C-1,2,3,4-TCDF	1.13e5	0.70	NO	1.00	1.000	15.17	100.00	100	0.371
4	4 13C-1,2,3,4-TCDD	1.04e5	0.79	NO	1030	1.000	15.78	101.65	102	0.291

Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2\_4, Date: 11-Feb-2020, Time: 21:32:19, ID: ST200211D2-2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	6.08e2	0.66	NO	0.982	1.000	17.22	0.54947	110	0.147
2	2 13C-2,3,7,8-TCDF	1.13e5	0.71	NO	1.08	1.000	17.20	91.711	91.7	0.381
3	3 13C-1,2,3,4-TCDF	1.14e5	0.71	NO	1.00	1.000	15.18	100.00	100	0.412
4	4 13C-1,2,3,4-TCDD	8.57e4	0.77	NO	1030	1.000	15.78	83.528	83.5	0.324

Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2\_5, Date: 11-Feb-2020, Time: 22:04:03, ID: ST200211D2-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	2.63e3	0.73	NO	0.982	1.000	17.23	2.0631	103	0.121
2	2 13C-2,3,7,8-TCDF	1.30e5	0.71	NO	1.08	1.000	17.20	89.279	89.3	0.292
3	3 13C-1,2,3,4-TCDF	1.34e5	0.74	NO	1.00	1.000	15.17	100.00	100	0.316
4	4 13C-1,2,3,4-TCDD	9.44e4	0.79	NO	1030	1.000	15.78	92.007	92.0	0.336

Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2\_6, Date: 11-Feb-2020, Time: 22:35:45, ID: ST200211D2-4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	1.15e4	0.75	NO	0.982	1.000	17.23	9.3257	93.3	0.185
2	2 13C-2,3,7,8-TCDF	1.25e5	0.75	NO	1.08	1.000	17.20	100.76	101	0.364
3	3 13C-1,2,3,4-TCDF	1.15e5	0.72	NO	1.00	1.000	15.17	100.00	100	0.394
4	4 13C-1,2,3,4-TCDD	9.87e4	0.79	NO	1030	1.000	15.78	96.149	96.1	0.331

Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2\_7, Date: 11-Feb-2020, Time: 23:07:28, ID: ST200211D2-5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	5.76e4	0.74	NO	0.982	1.000	17.23	38.981	97.5	0.158
2	2 13C-2,3,7,8-TCDF	1.51e5	0.71	NO	1.08	1.000	17.20	102.61	103	0.300
3	3 13C-1,2,3,4-TCDF	1.35e5	0.73	NO	1.00	1.000	15.17	100.00	100	0.325
4	4 13C-1,2,3,4-TCDD	1.13e5	0.78	NO	1030	1.000	15.78	110.19	110	0.311

Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

**Name: 200211D2\_8, Date: 11-Feb-2020, Time: 23:39:11, ID: ST200211D2-6 1613 CS5 19L2307, Description: 1613 CS5 19L2307**

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	4.81e5	0.73	NO	0.982	1.000	17.23	321.06	107	0.243
2	2 13C-2,3,7,8-TCDF	1.52e5	0.72	NO	1.08	1.000	17.20	102.22	102	0.295
3	3 13C-1,2,3,4-TCDF	1.38e5	0.73	NO	1.00	1.000	15.17	100.00	100	0.319
4	4 13C-1,2,3,4-TCDD	1.20e5	0.78	NO	1030	1.000	15.78	116.47	116	0.322



Dataset: Untitled

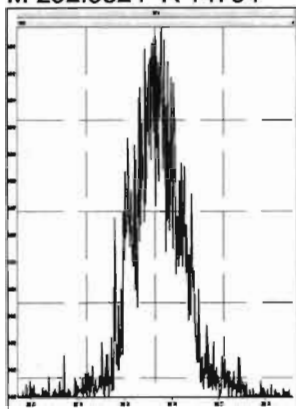
Last Altered: Wednesday, February 12, 2020 10:45:15 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:45:35 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24  
Callbration: C:\MassLynx\Default.PRO\CurveDB\db-225\_m23tcdfvg7-2-11-20.cdb 11 Feb 2020 14:52:18

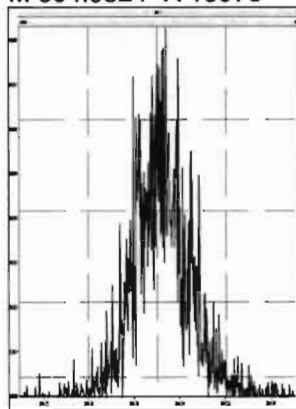
Compound name: 2,3,7,8-TCDF

	Name	ID	Acq.Date	Acq.Time
1	200211D2_1	SOLVENT BLANK	11-Feb-20	19:58:43
2	200211D2_2	CP200211D2-1 DB-225 CPSM	11-Feb-20	20:28:53
3	200211D2_3	ST200211D2-1 1613 CS0 19L2302	11-Feb-20	21:00:36
4	200211D2_4	ST200211D2-2 1613 CS1 19L2303	11-Feb-20	21:32:19
5	200211D2_5	ST200211D2-3 1613 CS2 19L2304	11-Feb-20	22:04:03
6	200211D2_6	ST200211D2-4 1613 CS3 19L2305	11-Feb-20	22:35:45
7	200211D2_7	ST200211D2-5 1613 CS4 19L2306	11-Feb-20	23:07:28
8	200211D2_8	ST200211D2-6 1613 CS5 19L2307	11-Feb-20	23:39:11
9	200211D2_9	SOLVENT BLANK	12-Feb-20	00:10:54
10	200211D2_10	SS200211D2-1 1613 SSS 19L2308	12-Feb-20	00:42:33
11	200211D2_11	SOLVENT BLANK	12-Feb-20	01:14:15
12	200211D2_12	1903740-08RE1 PDI-097SC-B-06-08-191017 ...	12-Feb-20	01:45:58
13	200211D2_13	1903740-07RE1 PDI-097SC-B-04-06-191017 ...	12-Feb-20	02:17:39
14	200211D2_14	1903740-06RE1 PDI-097SC-B-02-04-191017 ...	12-Feb-20	02:49:21
15	200211D2_15	1903740-01RE1 PDI-031SC-B-00-02-191017 ...	12-Feb-20	03:21:03
16	200211D2_16	1903740-05RE1 PDI-097SC-B-00-02-191017 ...	12-Feb-20	03:52:45

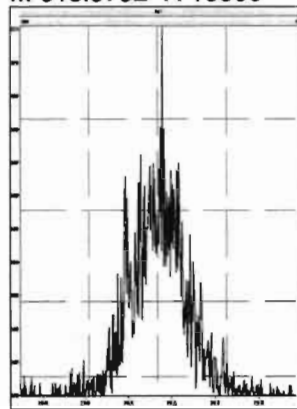
M 292.9824 R 14754



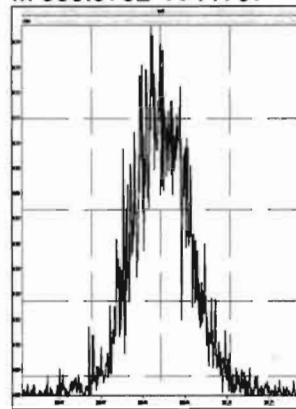
M 304.9824 R 15978



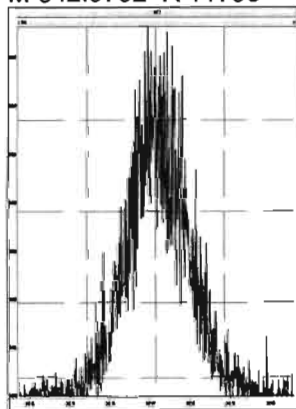
M 318.9792 R 15503



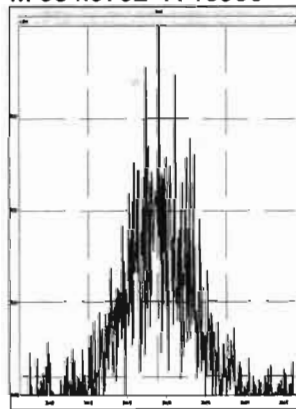
M 330.9792 R 11737



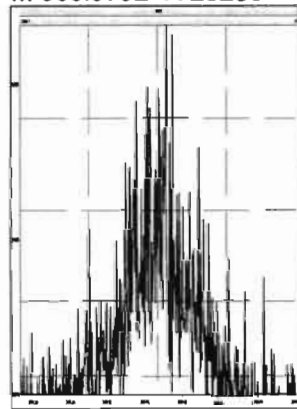
M 342.9792 R 11796



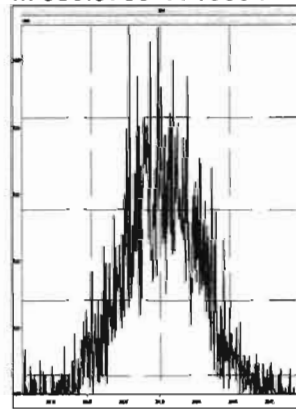
M 354.9792 R 15966



M 366.9792 R 28256



M 380.9760 R 13094



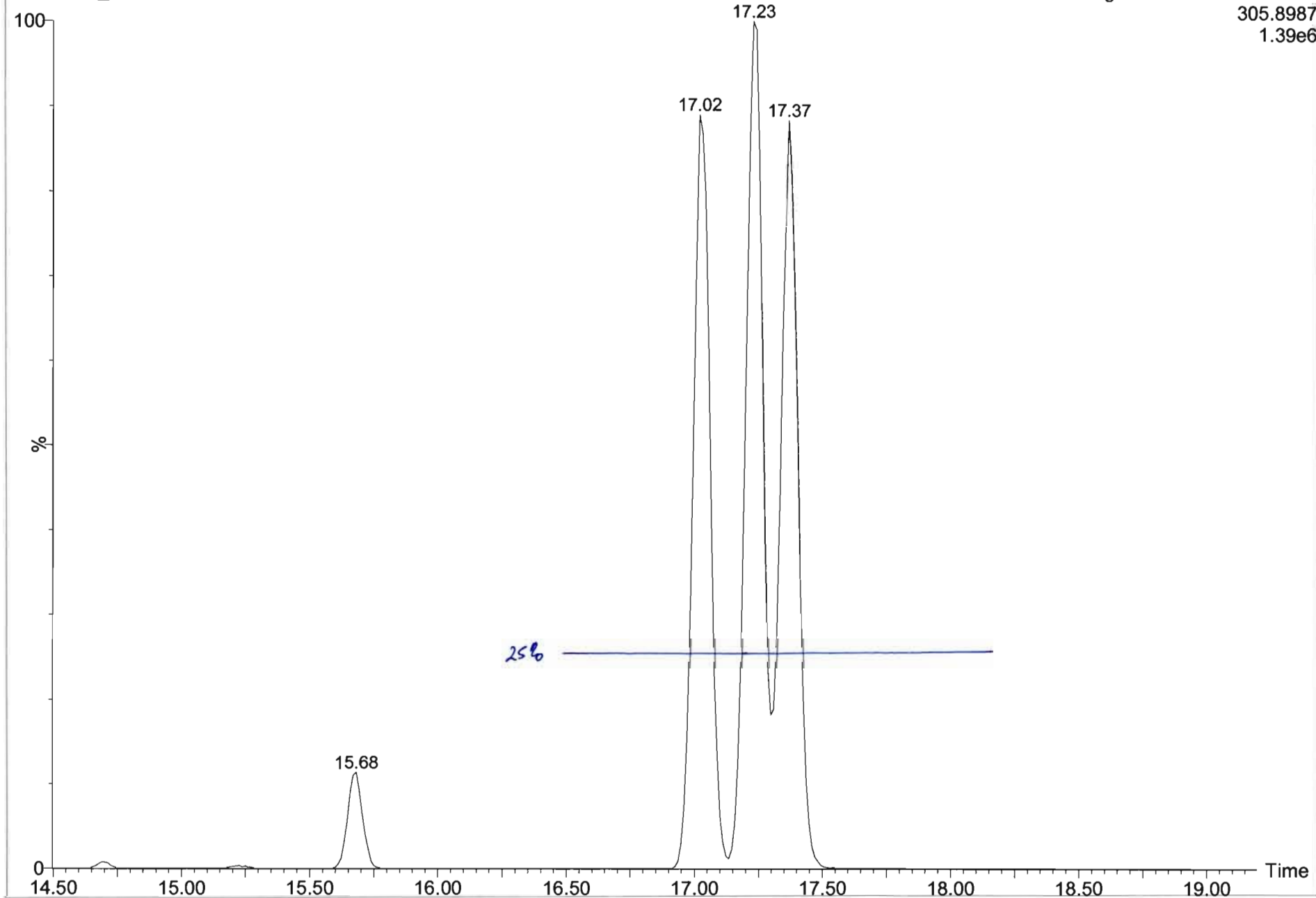
200211D2\_2

20:28:53

Voltage SIR 12 Channels EI+

305.8987

1.39e6



Dataset: U:\VG7.PRO\Results\200211D2\200111D2\_2.qld

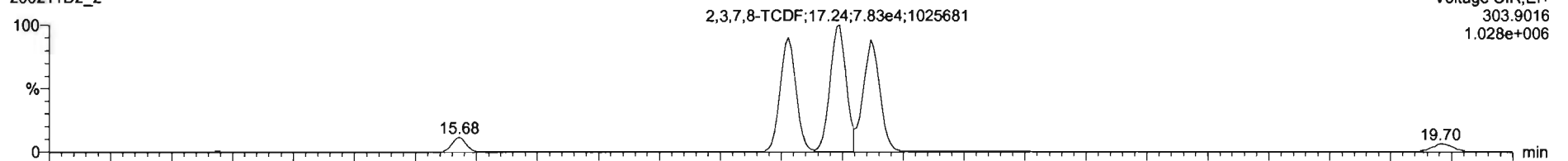
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Printed: Wednesday, February 12, 2020 10:15:34 Pacific Standard Time

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Calibration: C:\MassLynx\Default.PRO\CurveDB\db-225\_m23tcdfvg7-2-11-20.cdb 11 Feb 2020 14:52:18

Name: 200211D2\_2, Date: 11-Feb-2020, Time: 20:28:53, ID: CP200211D2-1 DB-225 CPSM, Description: DB-225 CPSM

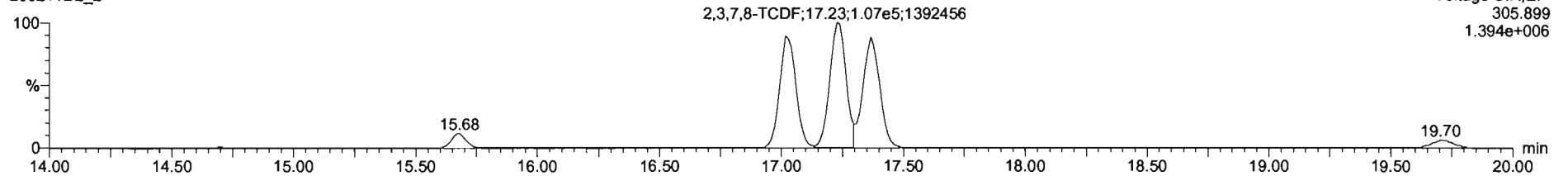
2,3,7,8-TCDF

200211D2\_2



Voltage SIR,EI+  
303.9016  
1.028e+006

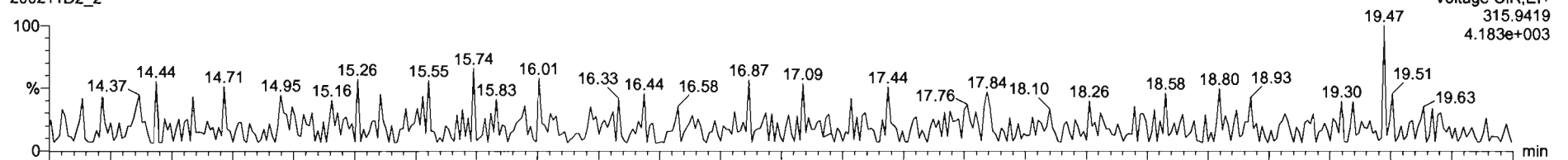
200211D2\_2



Voltage SIR,EI+  
305.899  
1.394e+006

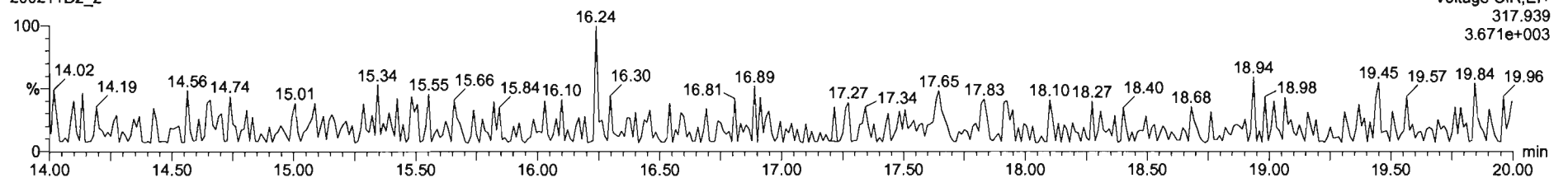
13C-2,3,7,8-TCDF

200211D2\_2



Voltage SIR,EI+  
315.9419  
4.183e+003

200211D2\_2



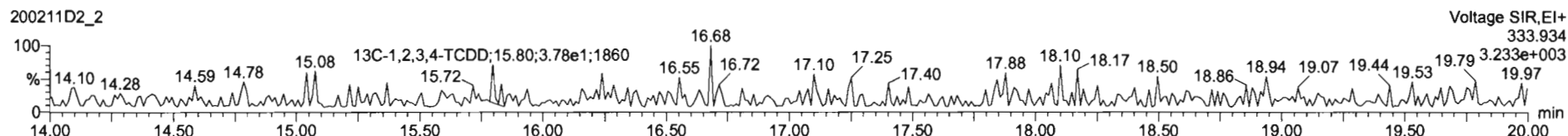
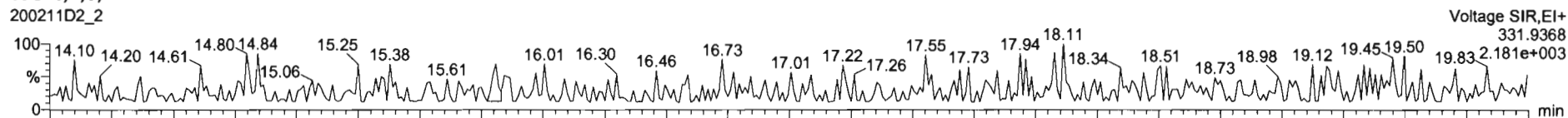
Voltage SIR,EI+  
317.939  
3.671e+003

Dataset: U:\VG7.PRO\Results\200211D2\200111D2\_2.qld

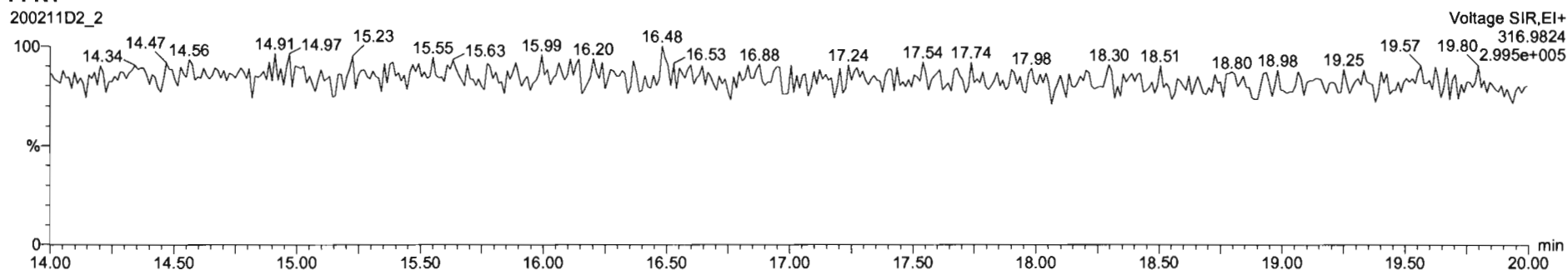
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Printed: Wednesday, February 12, 2020 10:15:34 Pacific Standard Time

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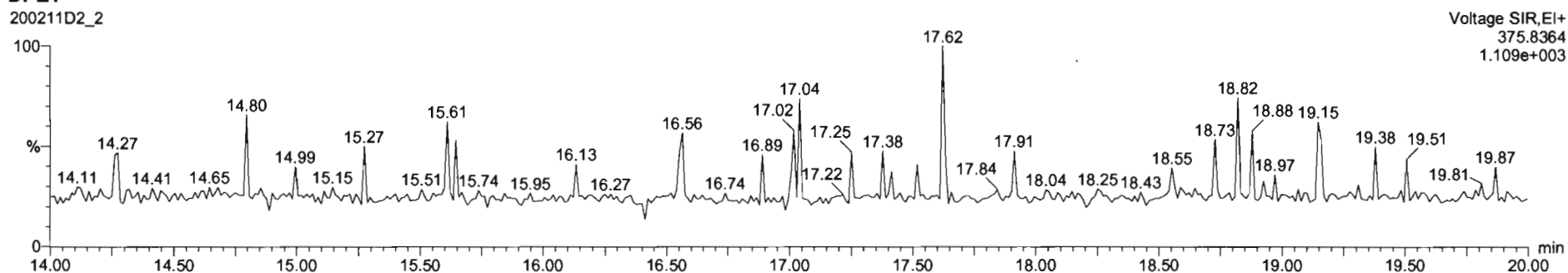
13C-1,2,3,4-TCDD



PFK1



DPE1



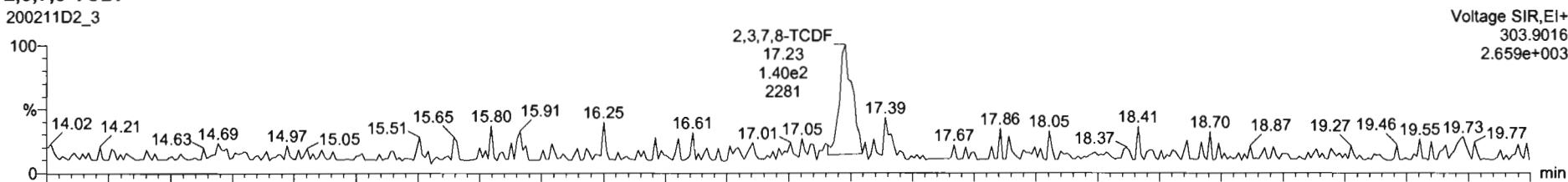
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

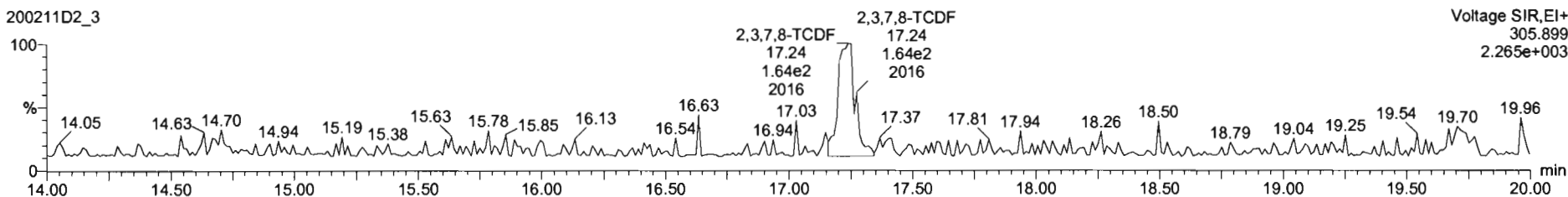
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Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvfg7-2-11-20.cdb 12 Feb 2020 10:17:56

Name: 200211D2\_3, Date: 11-Feb-2020, Time: 21:00:36, ID: ST200211D2-1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

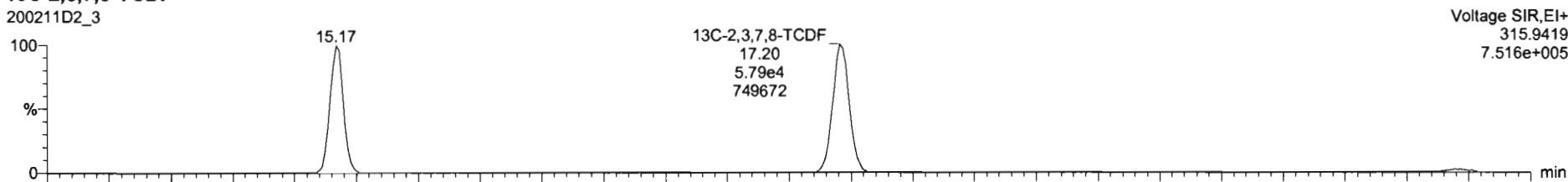
**2,3,7,8-TCDF**  
200211D2\_3



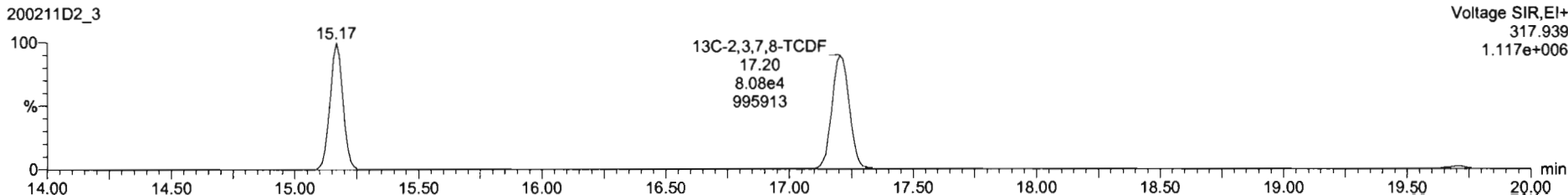
200211D2\_3



**13C-2,3,7,8-TCDF**  
200211D2\_3



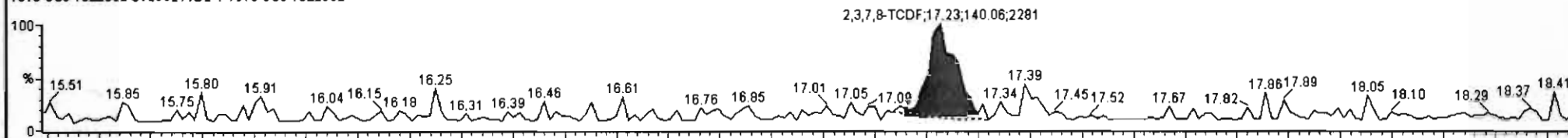
200211D2\_3



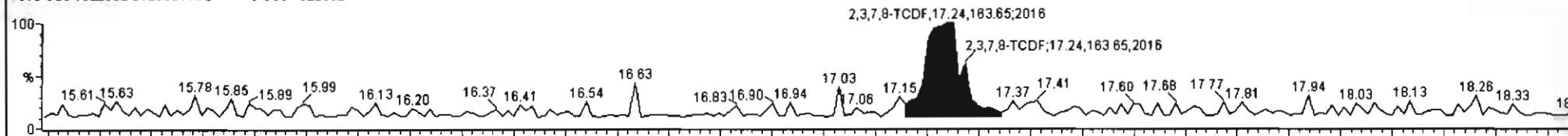
Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDF	3.04e2	0.86	NO	0.98	1.000	17.23	1.001	0.223	89.2	0.0831	0.223
2 13C-2,3,7,8-TCDF	1.39e5	0.72	NO	1.08	1.000	17.20	1.134	113	113	0.342	
3 13C-1,2,3,4-TCDF	1.13e5	0.70	NO	1.00	1.000	15.17	1.000	100	100	0.371	
4 13C-1,2,3,4-TCDF	1.04e5	0.79	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							

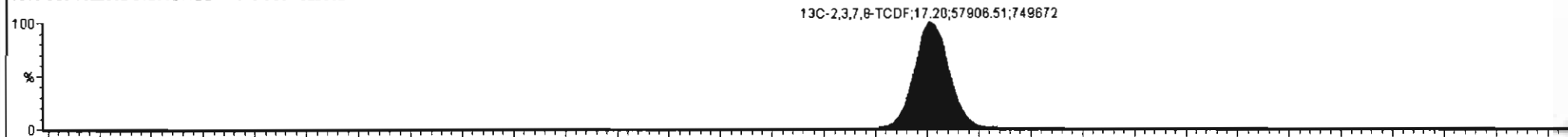
200211D2\_3  
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



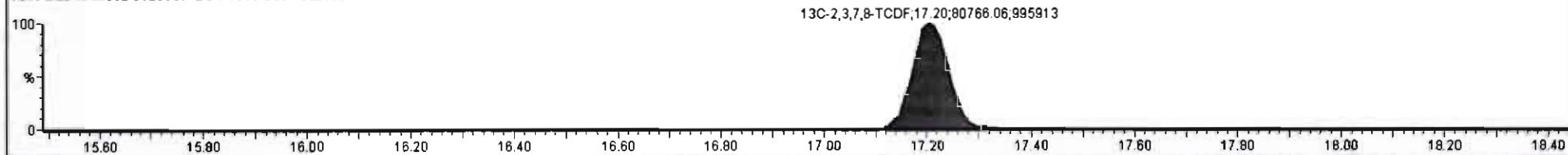
200211D2\_3  
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



200211D2\_3  
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



200211D2\_3  
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



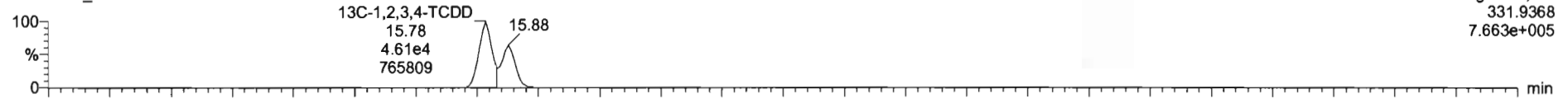
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Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

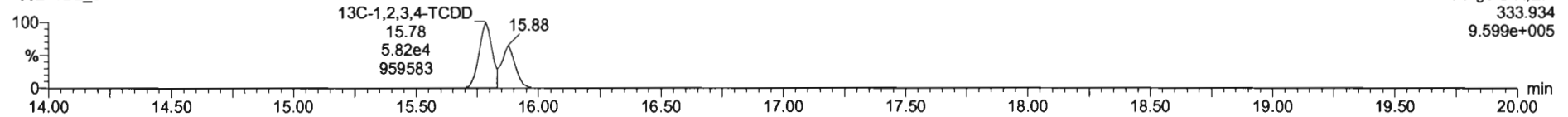
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**13C-1,2,3,4-TCDD**

200211D2\_3

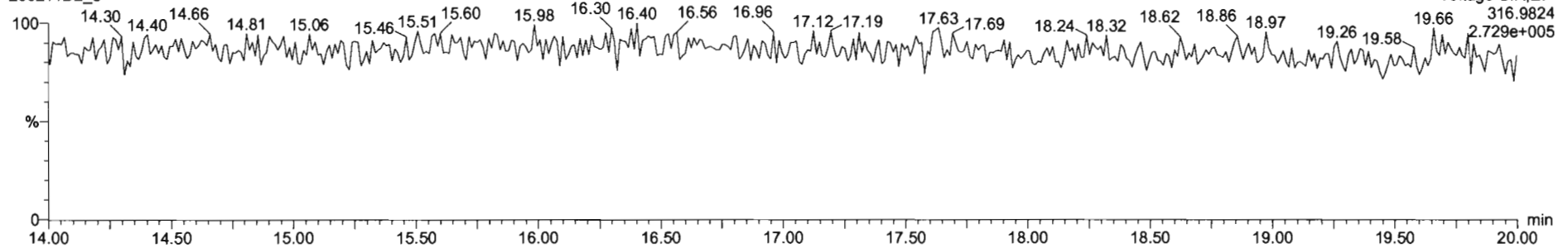


200211D2\_3



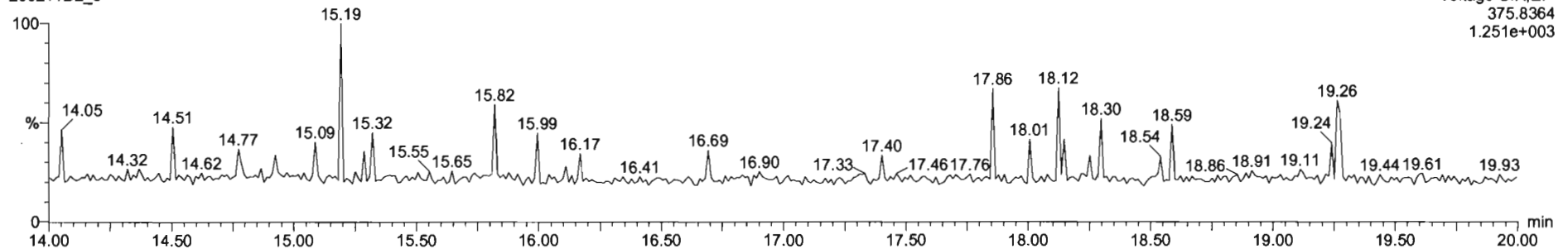
**PFK1**

200211D2\_3



**DPE1**

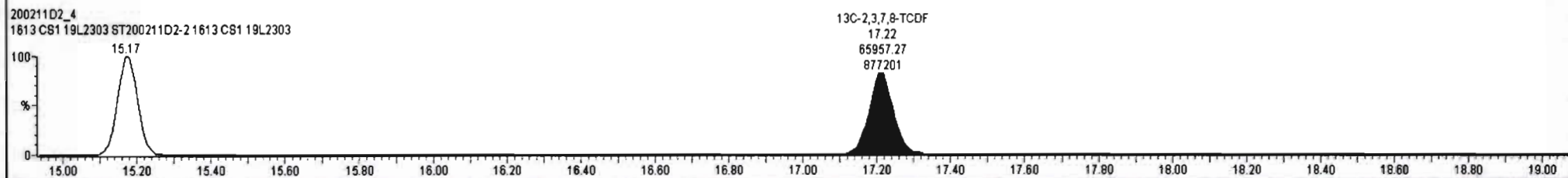
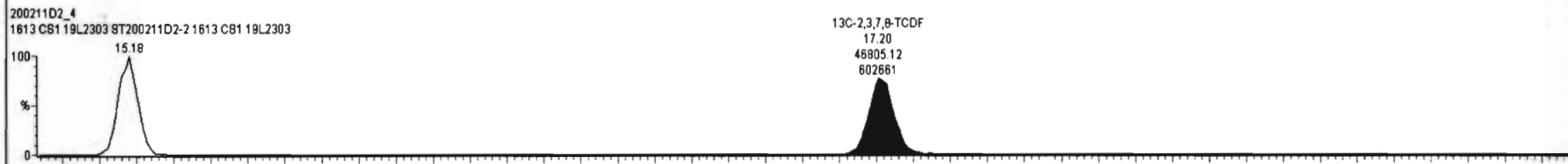
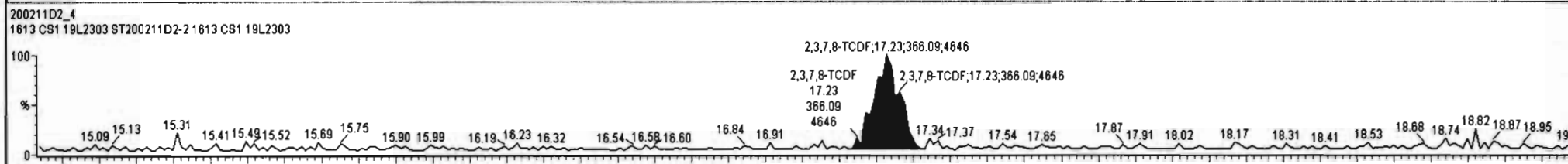
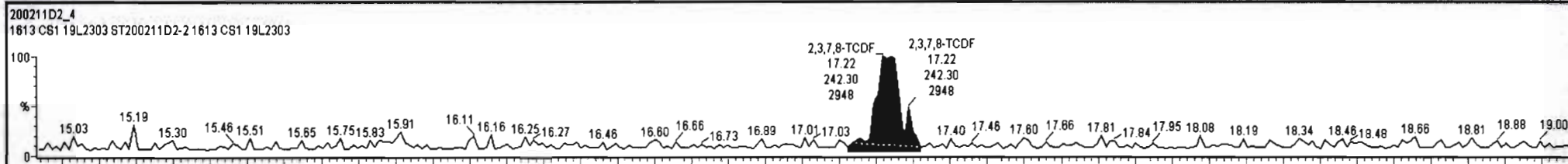
200211D2\_3





#	Name	Resp	RA	ruy	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EWPC
1	2,3,7,8-TCDF	8.08e2	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								



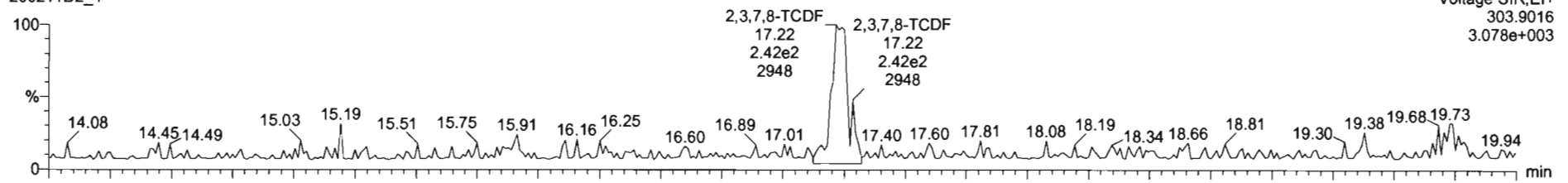
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Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

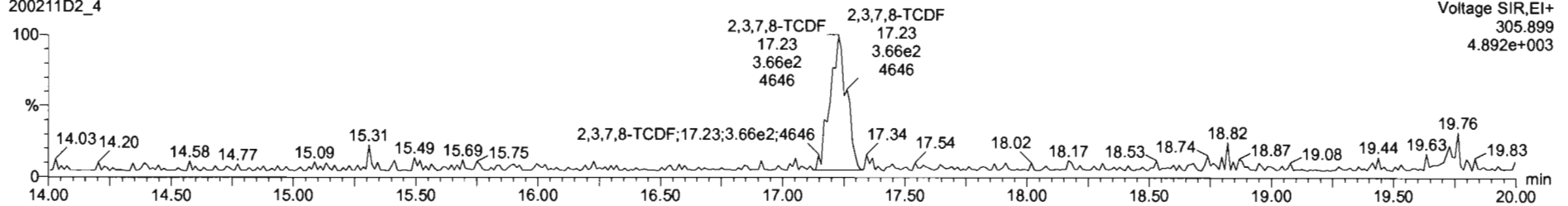
Name: 200211D2\_4, Date: 11-Feb-2020, Time: 21:32:19, ID: ST200211D2-2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

**2,3,7,8-TCDF**

200211D2\_4

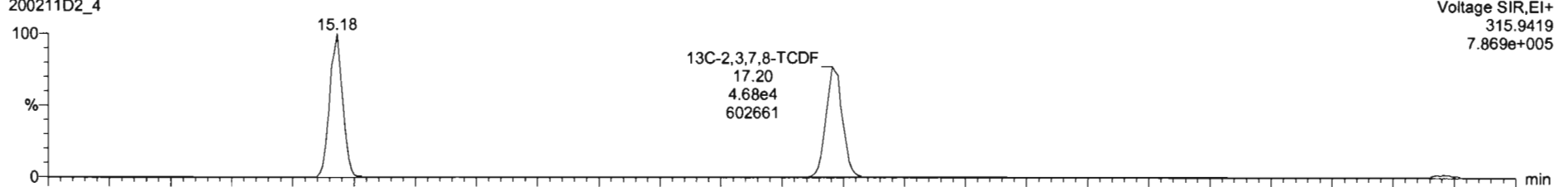


200211D2\_4

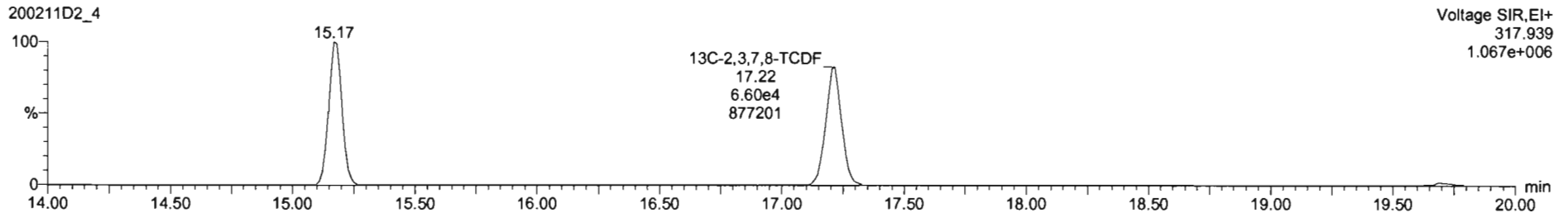


**13C-2,3,7,8-TCDF**

200211D2\_4



200211D2\_4



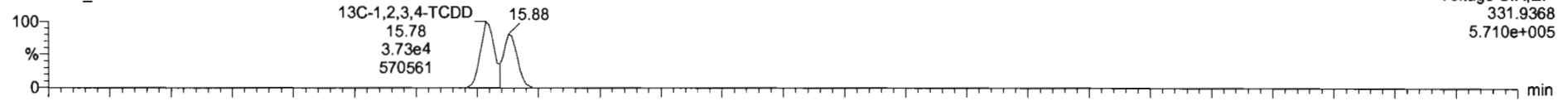
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Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

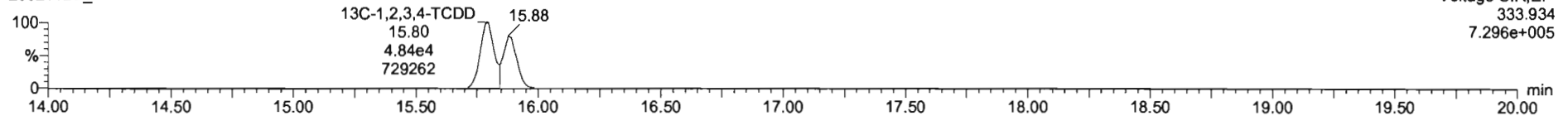
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**13C-1,2,3,4-TCDD**

200211D2\_4

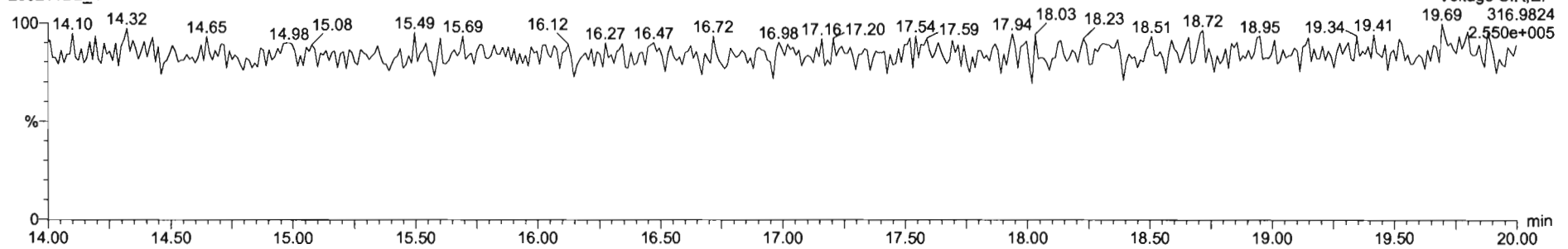


200211D2\_4



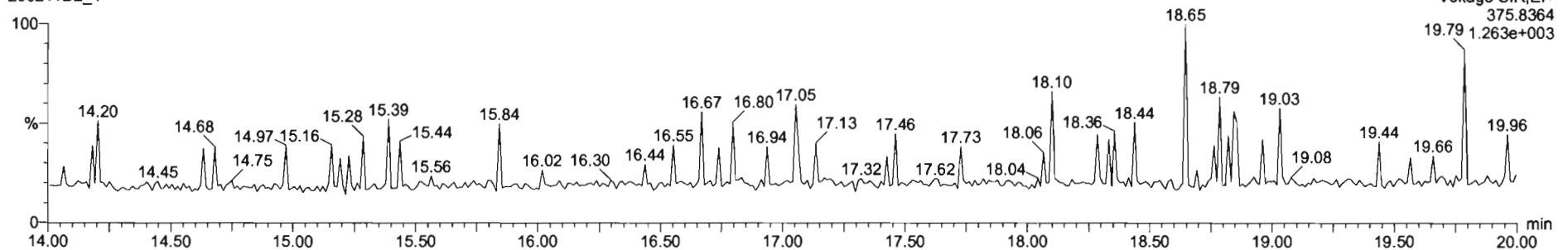
**PFK1**

200211D2\_4



**DPE1**

200211D2\_4



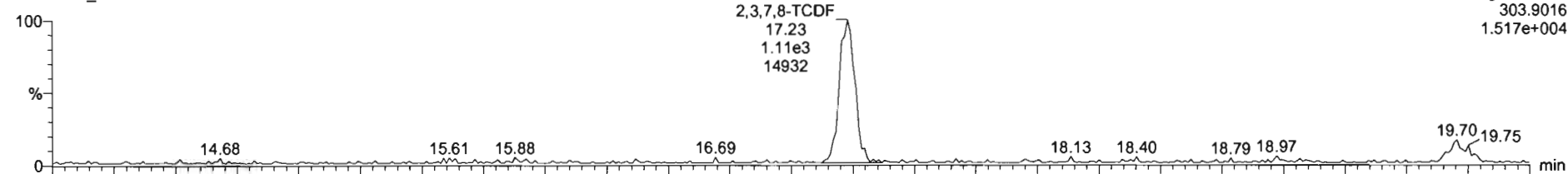
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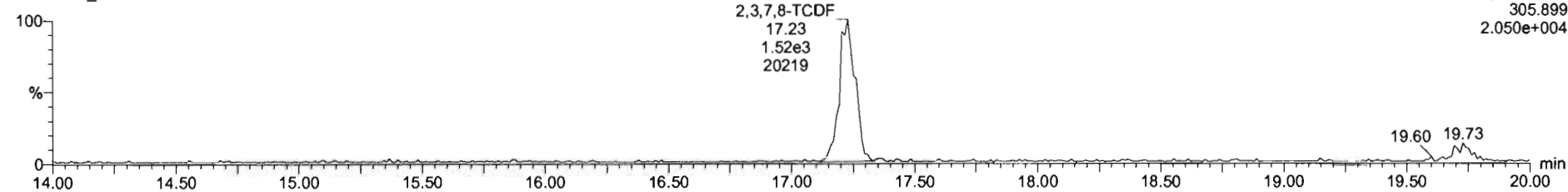
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**2,3,7,8-TCDF**

200211D2\_5

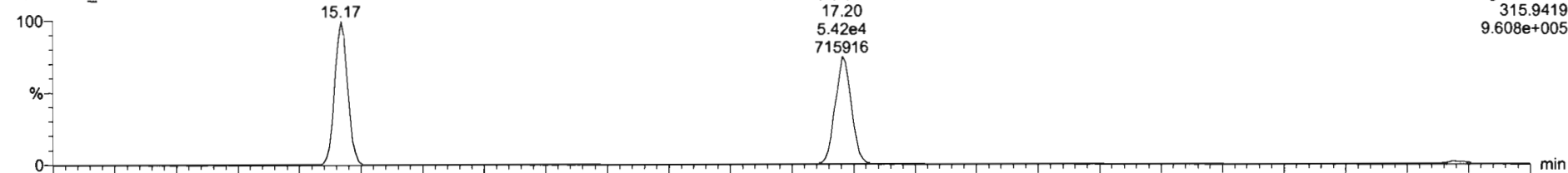


200211D2\_5

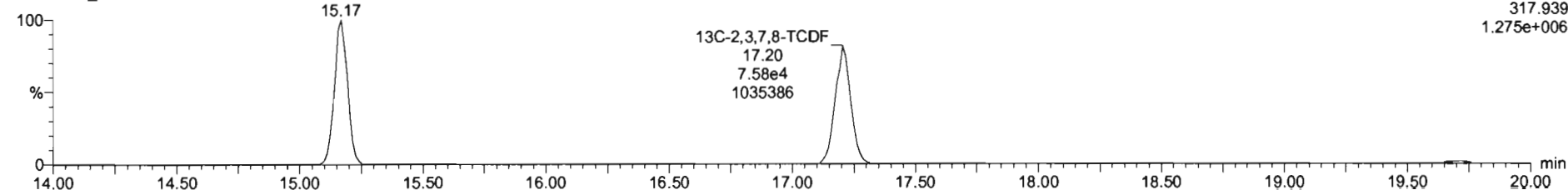


**13C-2,3,7,8-TCDF**

200211D2\_5



200211D2\_5

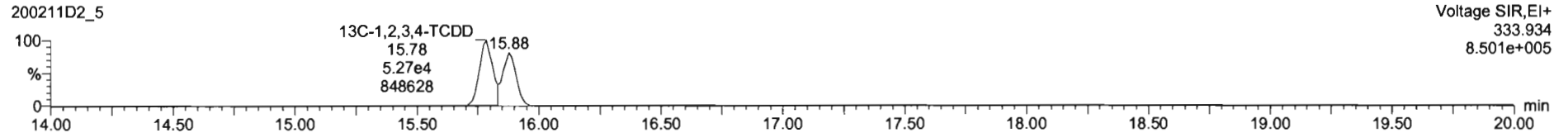
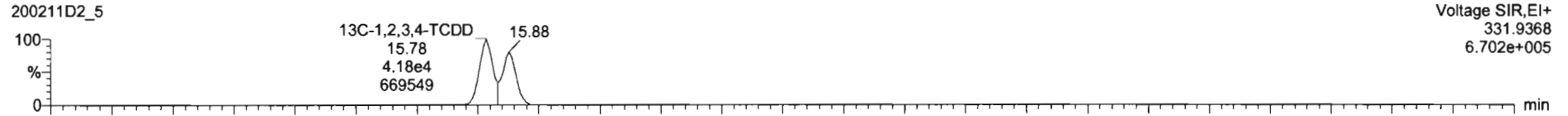


Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

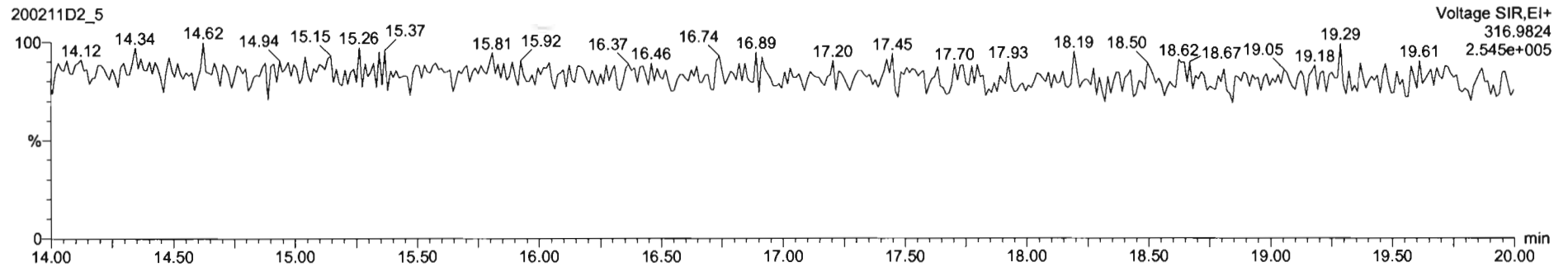
Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

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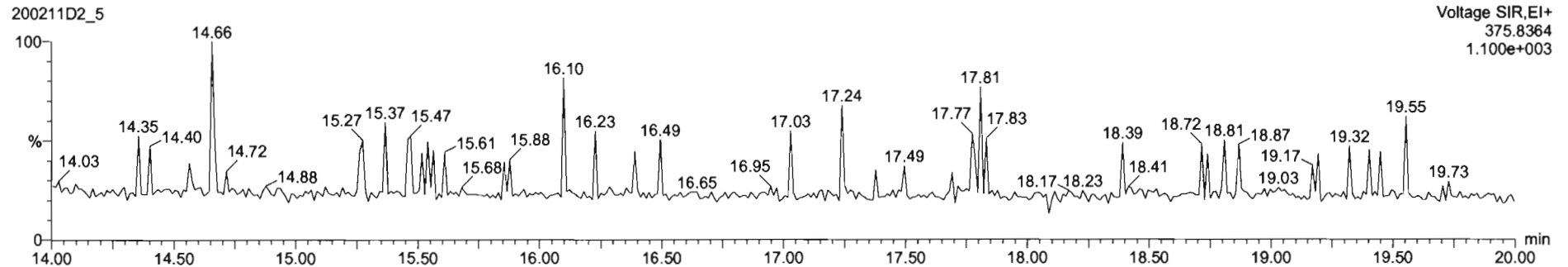
**13C-1,2,3,4-TCDD**



**PFK1**



**DPE1**



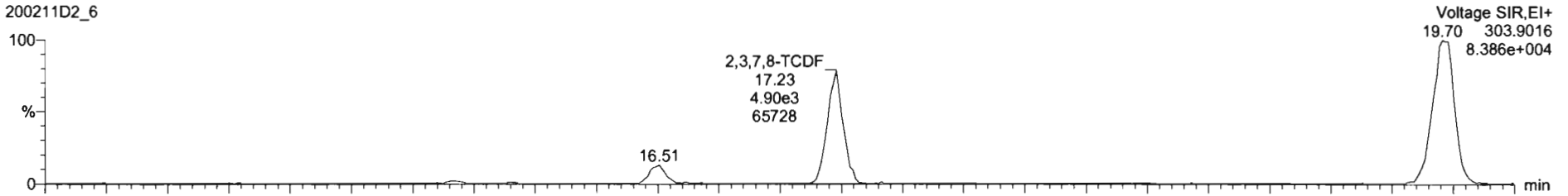
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Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

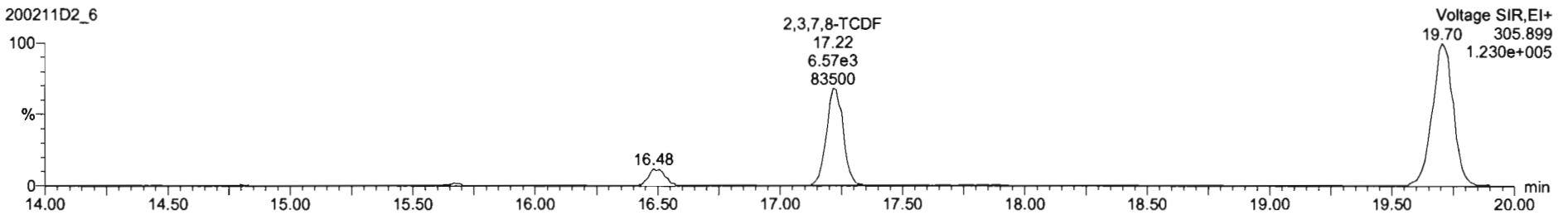
Name: 200211D2\_6, Date: 11-Feb-2020, Time: 22:35:45, ID: ST200211D2-4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

**2,3,7,8-TCDF**

200211D2\_6

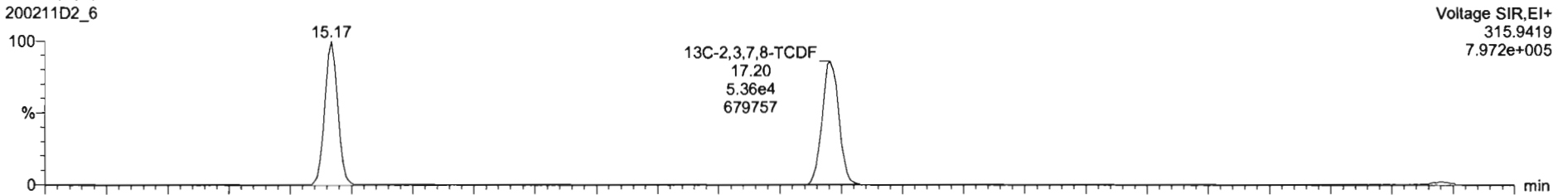


200211D2\_6

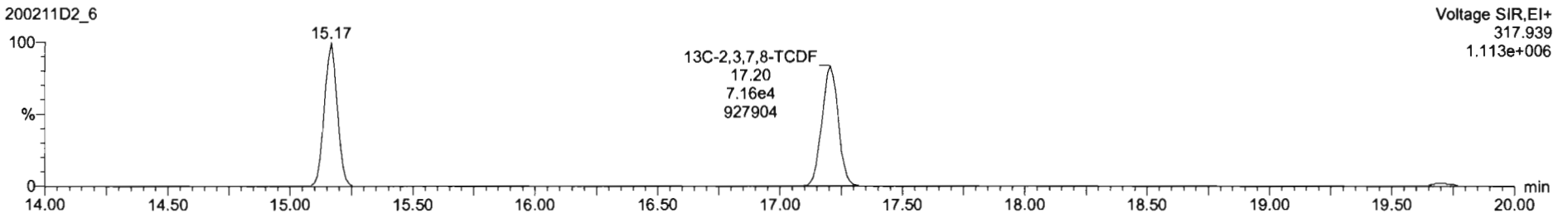


**13C-2,3,7,8-TCDF**

200211D2\_6



200211D2\_6



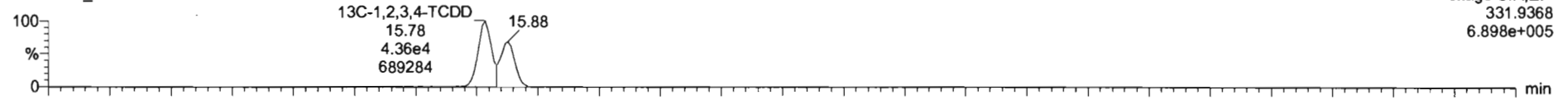
Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

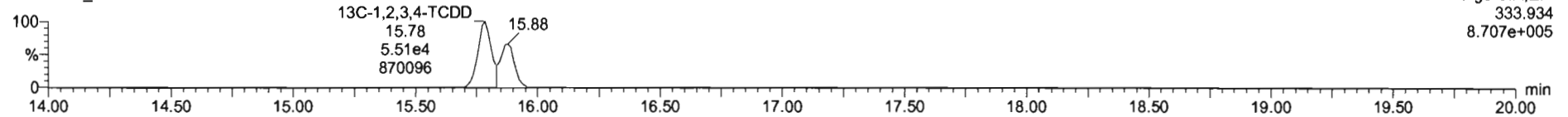
Name: 200211D2\_6, Date: 11-Feb-2020, Time: 22:35:45, ID: ST200211D2-4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200211D2\_6

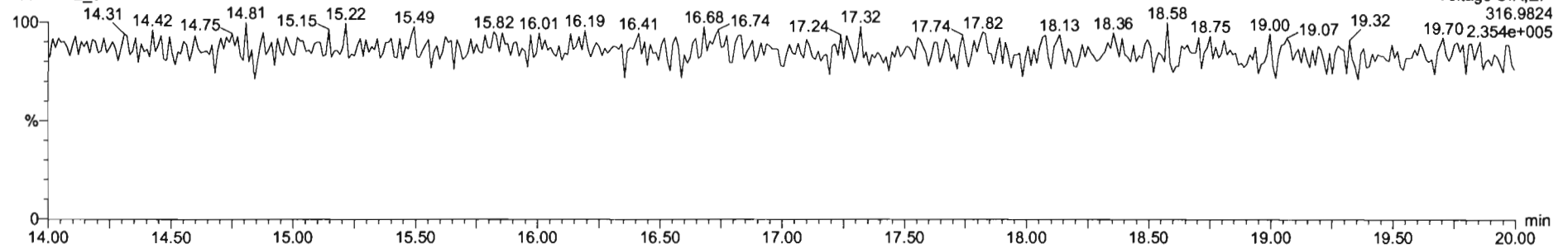


200211D2\_6



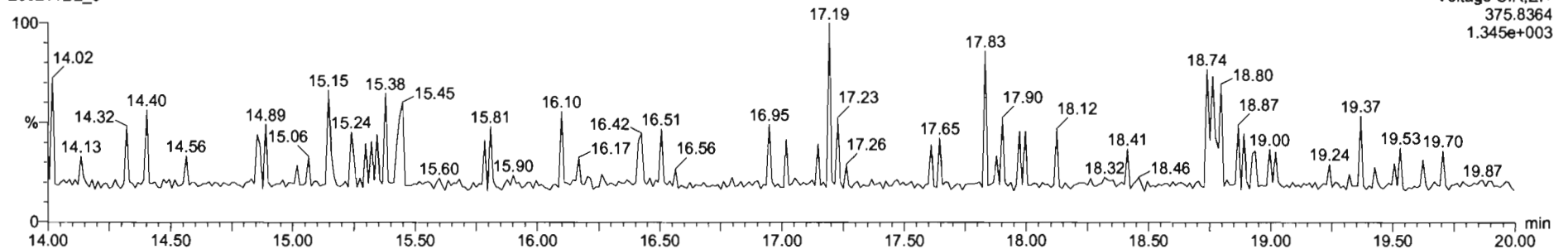
**PFK1**

200211D2\_6



**DPE1**

200211D2\_6



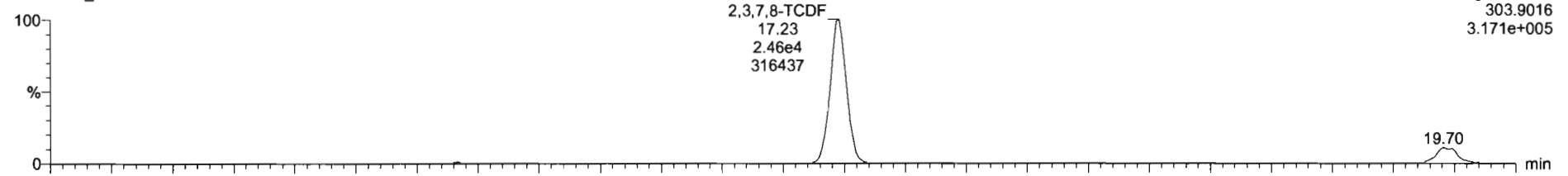
Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

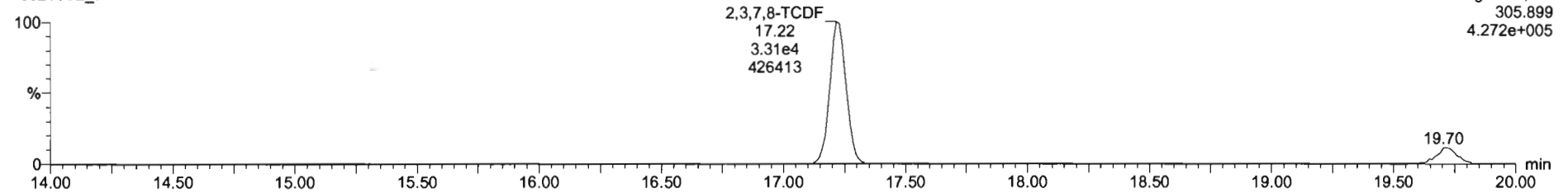
Name: 200211D2\_7, Date: 11-Feb-2020, Time: 23:07:28, ID: ST200211D2-5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

**2,3,7,8-TCDF**

200211D2\_7

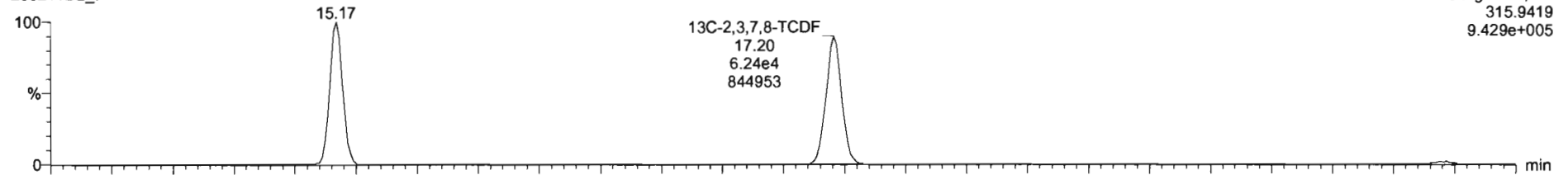


200211D2\_7

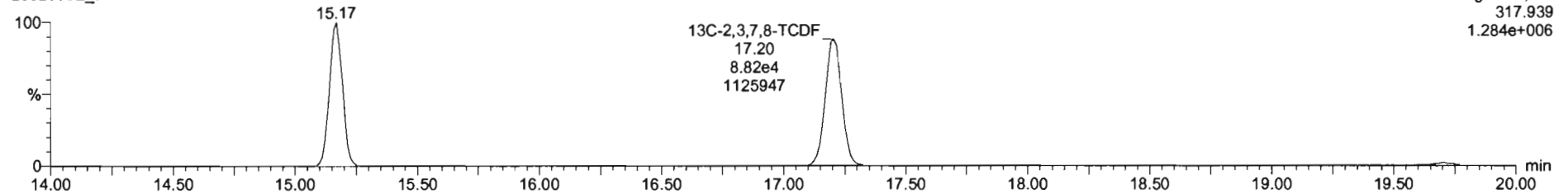


**13C-2,3,7,8-TCDF**

200211D2\_7



200211D2\_7





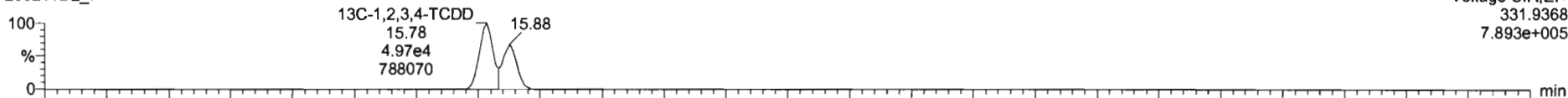
Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

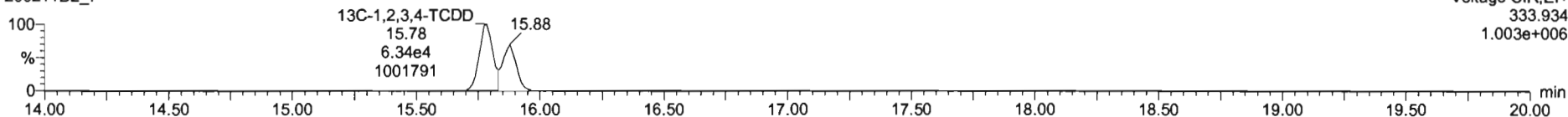
Name: 200211D2\_7, Date: 11-Feb-2020, Time: 23:07:28, ID: ST200211D2-5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

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

200211D2\_7

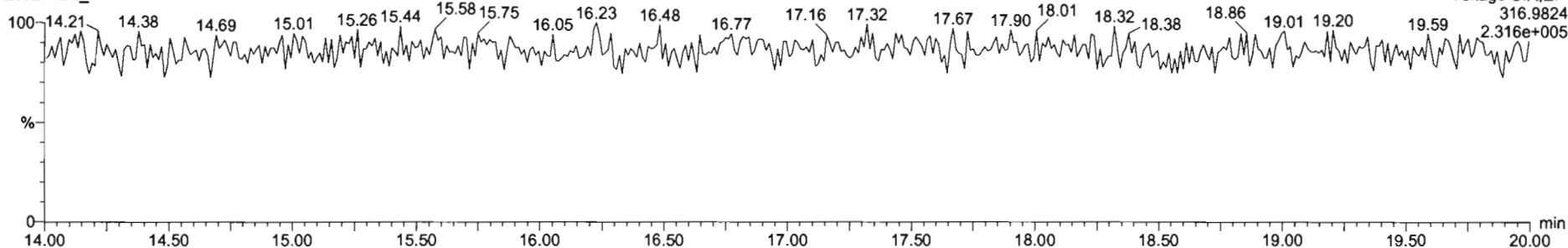


200211D2\_7



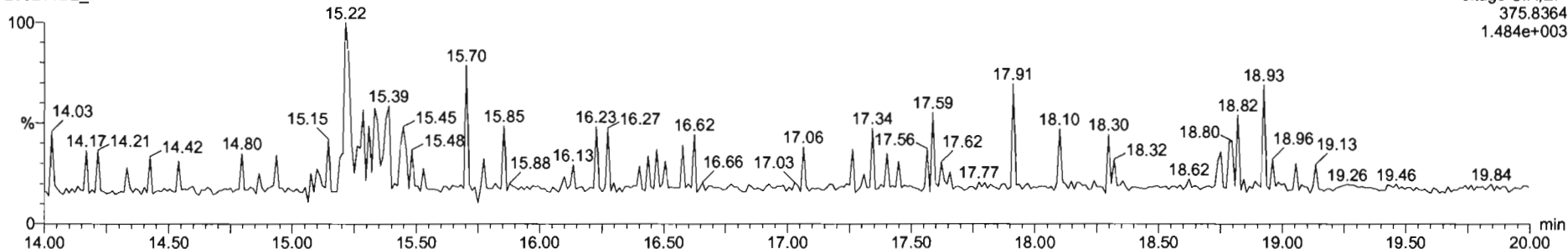
**PFK1**

200211D2\_7



**DPE1**

200211D2\_7



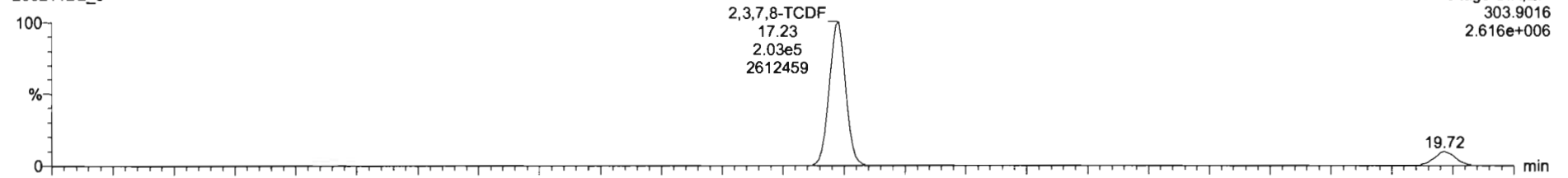
Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

Name: 200211D2\_8, Date: 11-Feb-2020, Time: 23:39:11, ID: ST200211D2-6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

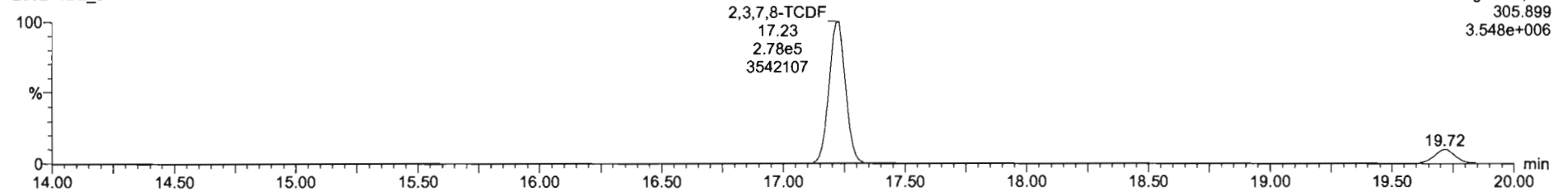
**2,3,7,8-TCDF**

200211D2\_8



Voltage SIR,EI+  
303.9016  
2.616e+006

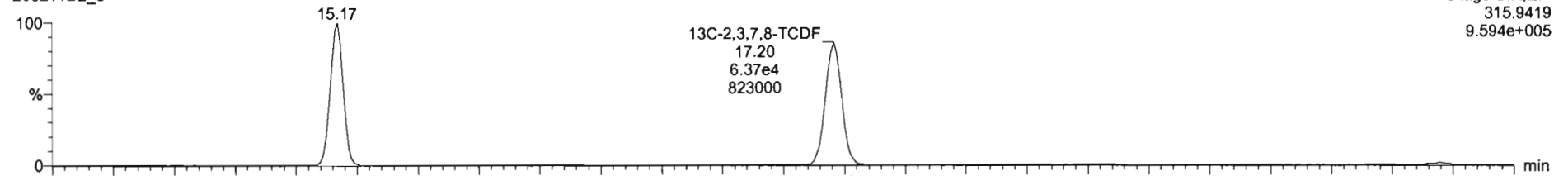
200211D2\_8



Voltage SIR,EI+  
305.899  
3.548e+006

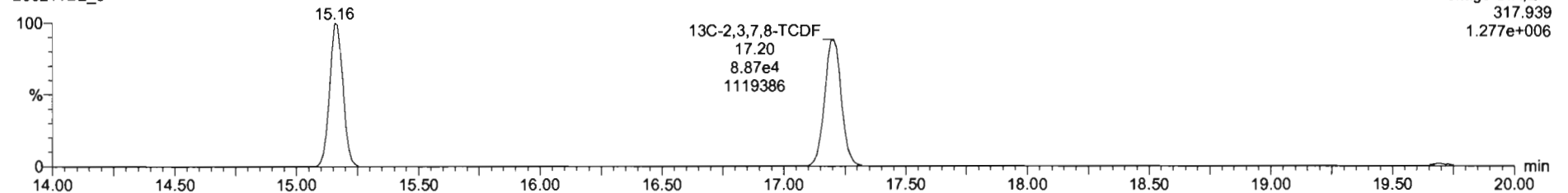
**13C-2,3,7,8-TCDF**

200211D2\_8



Voltage SIR,EI+  
315.9419  
9.594e+005

200211D2\_8



Voltage SIR,EI+  
317.939  
1.277e+006

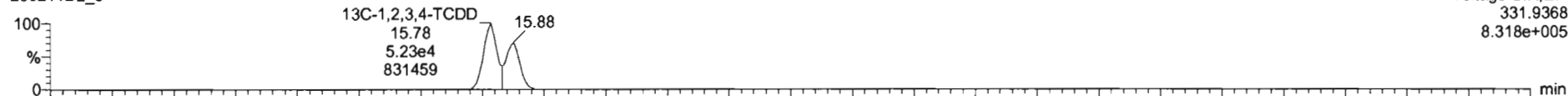
Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

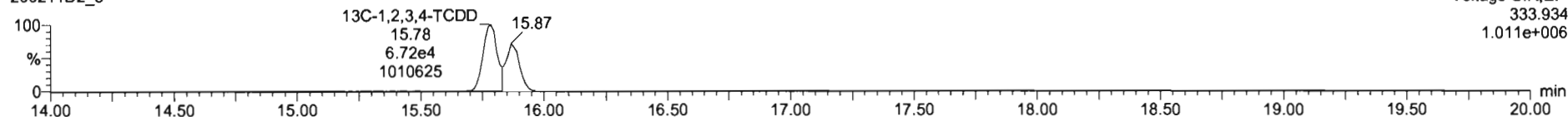
Name: 200211D2\_8, Date: 11-Feb-2020, Time: 23:39:11, ID: ST200211D2-6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

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

200211D2\_8

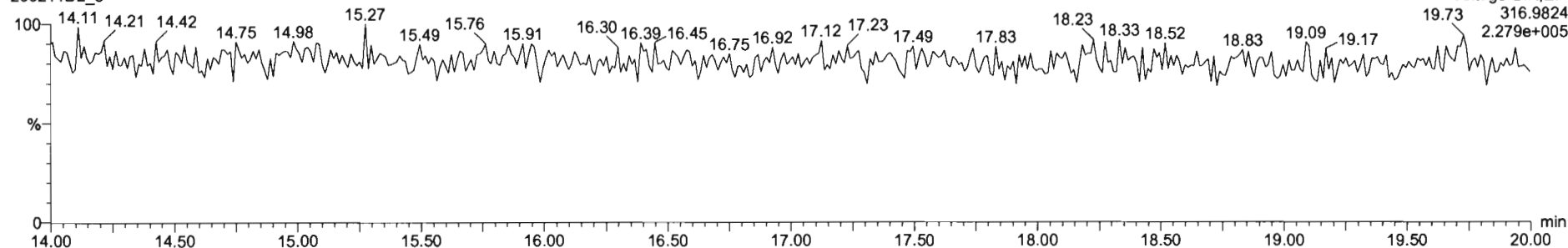


200211D2\_8



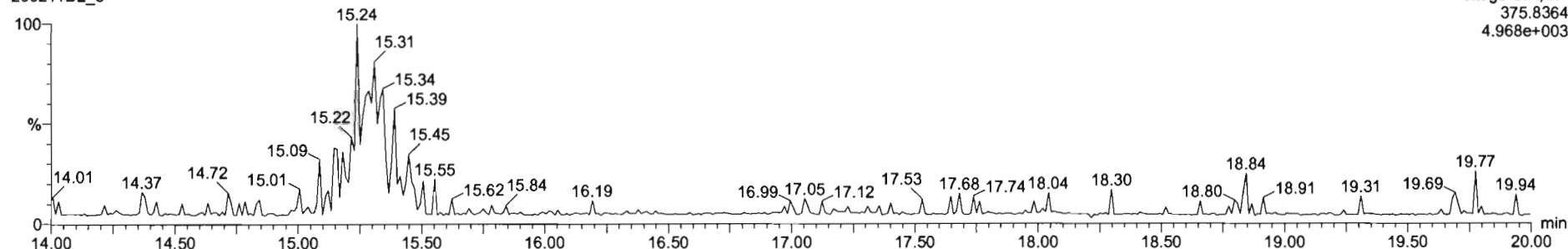
PFK1

200211D2\_8

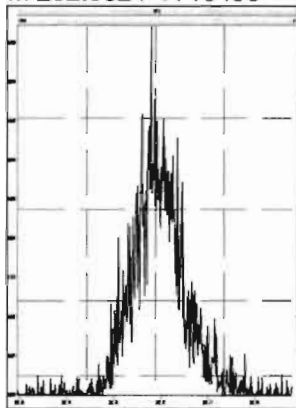


DPE1

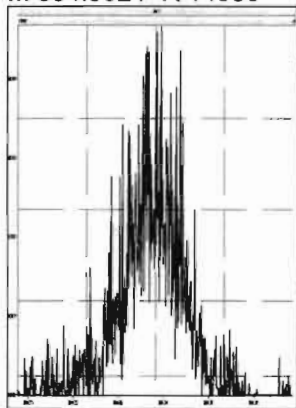
200211D2\_8



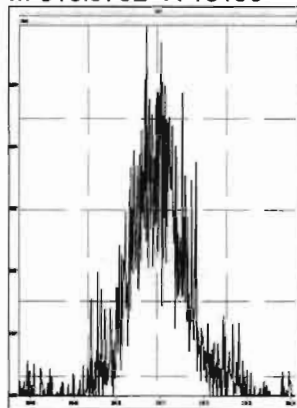
M 292.9824 R 13493



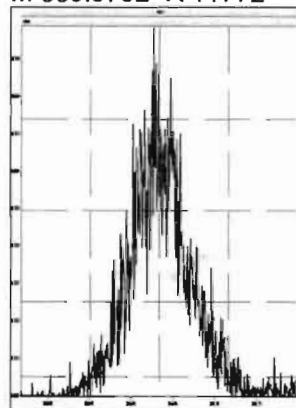
M 304.9824 R 14983



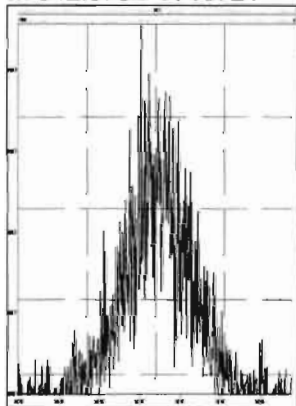
M 318.9792 R 15196



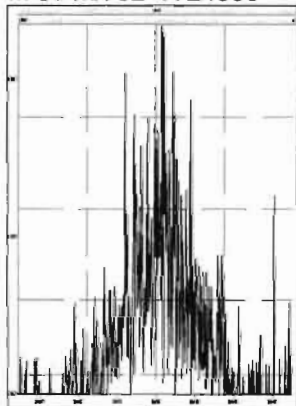
M 330.9792 R 11772



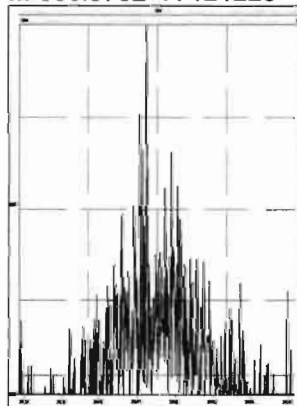
M 342.9792 R 13721



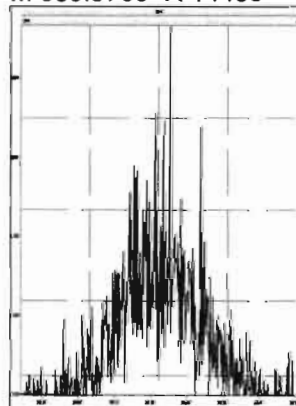
M 354.9792 R 24553



M 366.9792 R 121228



M 380.9760 R 14409



Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_10.qld

Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:52:52 Pacific Standard Time

*DB 2/12/20 07:52/2020*

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24

Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

Name: 200211D2\_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	2,3,7,8-TCDF	1.29e4	0.77	NO	0.982	1.000	17.22	10.800	108	0.183
2	13C-2,3,7,8-TCDF	1.22e5	0.73	NO	1.08	1.000	17.20	92.025	92.0	0.305
3	13C-1,2,3,4-TCDF	1.22e5	0.72	NO	1.00	1.000	15.17	100.00	100	0.330
4	13C-1,2,3,4-TCDD	8.99e4	0.76	NO	1030	1.000	15.78	87.563	87.6	0.304

Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_10.qld

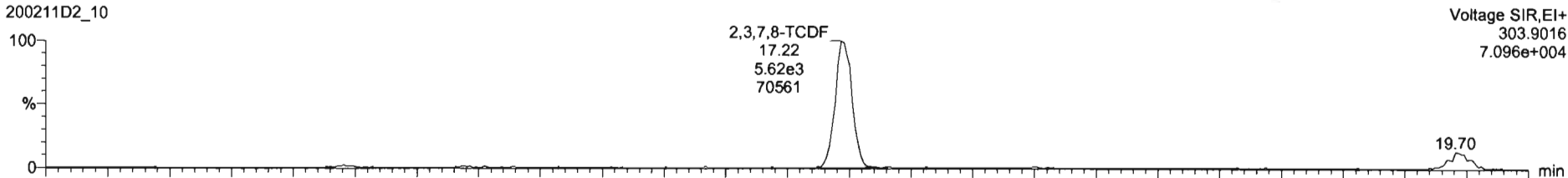
Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:53:15 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24  
Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

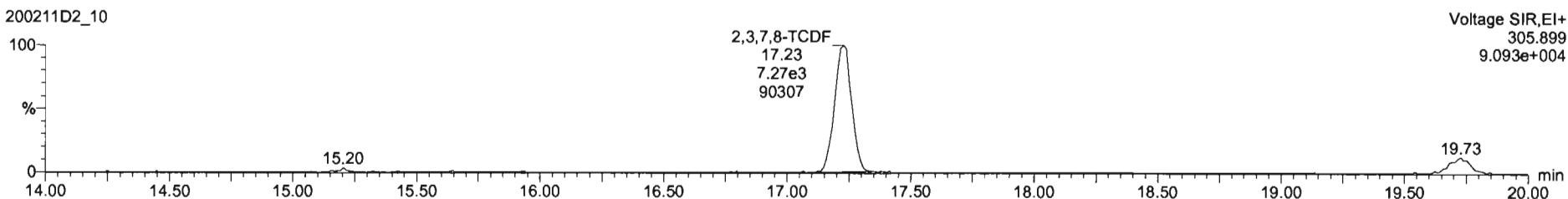
Name: 200211D2\_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

**2,3,7,8-TCDF**

200211D2\_10

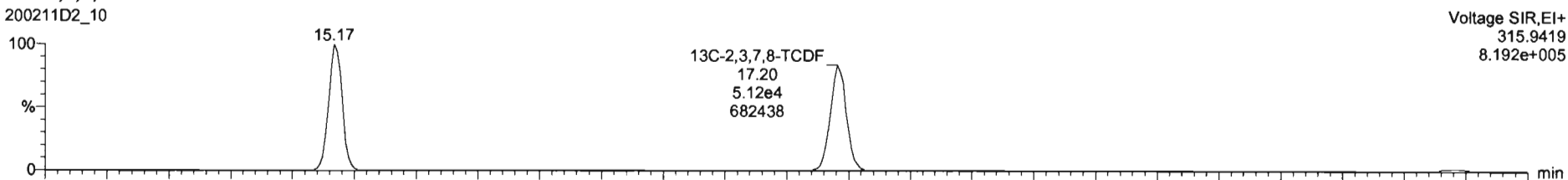


200211D2\_10

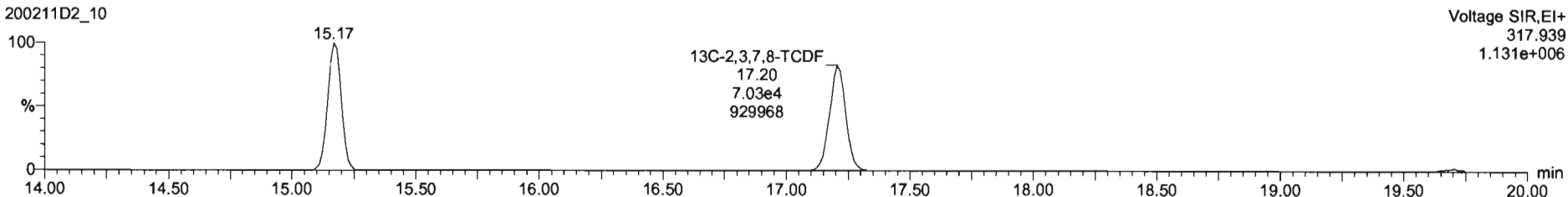


**13C-2,3,7,8-TCDF**

200211D2\_10



200211D2\_10



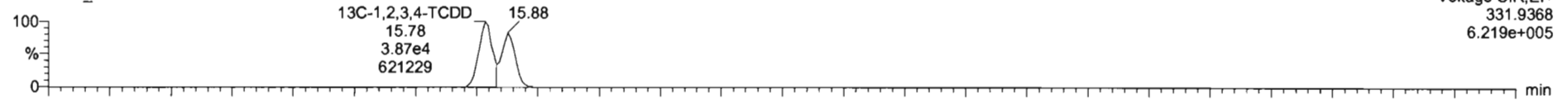
Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_10.qld

Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time  
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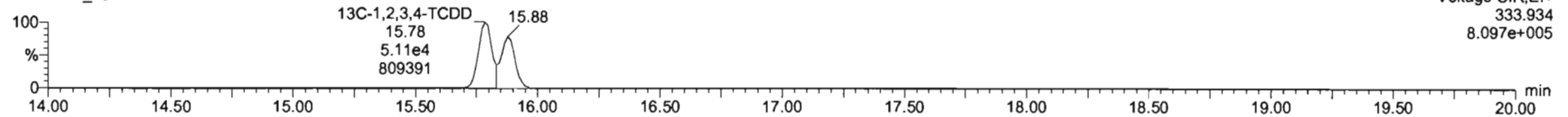
Name: 200211D2\_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200211D2\_10

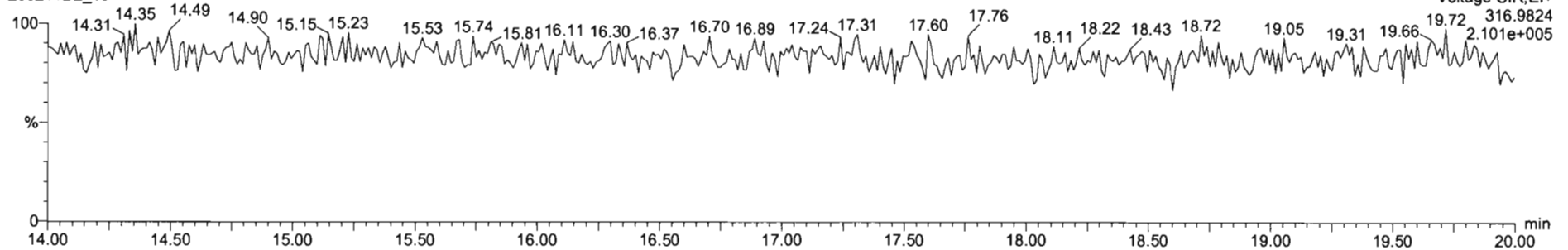


200211D2\_10



**PFK1**

200211D2\_10



**DPE1**

200211D2\_10

