

December 21, 2020

Vista Work Order No. 2002535

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

Dear Ms. Peterson,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on November 17, 2020 under your Project Name 'GascoSiltronic: US Moorings'.

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

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

Sincerely,

Martha Maier
Laboratory Director



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

Vista Work Order No. 2002535

Case Narrative

Sample Condition on Receipt:

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

Analytical Notes:

EPA Method 1613B

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

Holding Times

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

Quality Control

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

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

As requested, a sample duplicate was performed on sample "USMPDI-009SC-A-05-06-201112". The RPDs were outside the acceptance criteria for 1,2,3,4,6,7,8-HpCDD; OCDD and 1,2,3,4,6,7,8-HpCDF.

The labeled standard recoveries outside the acceptance criteria are flagged with an "H" qualifier.

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2002535-01	USMPDI-009SC-A-03-04-201112	12-Nov-20 08:45	17-Nov-20 10:43	Amber Glass, 120 mL
2002535-02	USMPDI-009SC-A-04-05-201112	12-Nov-20 08:45	17-Nov-20 10:43	Amber Glass, 120 mL
2002535-03	USMPDI-009SC-A-05-06-201112	DUP12-Nov-20 08:45	17-Nov-20 10:43	Amber Glass, 120 mL Amber Glass, 120 mL
2002535-04	USMPDI-009SC-A-06-07-201112	12-Nov-20 08:45	17-Nov-20 10:43	Amber Glass, 120 mL
2002535-05	USMPDI-1009SC-A-04-05-201112	12-Nov-20 08:45	17-Nov-20 10:43	Amber Glass, 120 mL

ANALYTICAL RESULTS

Sample ID: Method Blank					EPA Method 1613B			
Matrix: Solid Sample Size: 10.0 g		QC Batch: B0L0034 Date Extracted: 05-Dec-2020 16:10		Lab Sample: B0L0034-BLK1 Date Analyzed: 13-Dec-20 12:30 Column: ZB-DIOXIN				
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0116			IS 13C-2,3,7,8-TCDD	103	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0249			13C-1,2,3,7,8-PeCDD	104	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0326			13C-1,2,3,4,7,8-HxCDD	112	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0336			13C-1,2,3,6,7,8-HxCDD	106	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0339			13C-1,2,3,7,8,9-HxCDD	103	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND		0.0687		13C-1,2,3,4,6,7,8-HpCDD	105	23 - 140	
OCDD	0.567			J	13C-OCDD	81.3	17 - 157	
2,3,7,8-TCDF	ND	0.00907			13C-2,3,7,8-TCDF	106	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0179			13C-1,2,3,7,8-PeCDF	107	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0169			13C-2,3,4,7,8-PeCDF	107	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0185			13C-1,2,3,4,7,8-HxCDF	102	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0188			13C-1,2,3,6,7,8-HxCDF	95.0	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0206			13C-2,3,4,6,7,8-HxCDF	99.6	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0265			13C-1,2,3,7,8,9-HxCDF	93.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0290			13C-1,2,3,4,6,7,8-HpCDF	80.8	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0248			13C-1,2,3,4,7,8,9-HpCDF	98.6	26 - 138	
OCDF	0.0878			J	13C-OCDF	79.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	100	35 - 197	
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)			
					TEQMinWHO2005Dioxin 0.000196			
TOTALS								
Total TCDD	ND	0.0116						
Total PeCDD	ND	0.0249						
Total HxCDD	ND	0.0339						
Total HpCDD	ND		0.0687					
Total TCDF	ND	0.00907						
Total PeCDF	ND	0.0179						
Total HxCDF	ND	0.0265						
Total HpCDF	ND	0.0290						

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: B0L0034	Lab Sample: B0L0034-BS1					
Sample Size: 10.0 g	Date Extracted: 05-Dec-2020 16:10	Date Analyzed: 13-Dec-20 11:01	Column: ZB-DIOXIN				
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	20.4	20.0	102	67 - 158	IS 13C-2,3,7,8-TCDD	89.8	20 - 175
1,2,3,7,8-PeCDD	102	100	102	70 - 142	13C-1,2,3,7,8-PeCDD	106	21 - 227
1,2,3,4,7,8-HxCDD	101	100	101	70 - 164	13C-1,2,3,4,7,8-HxCDD	112	21 - 193
1,2,3,6,7,8-HxCDD	102	100	102	76 - 134	13C-1,2,3,6,7,8-HxCDD	105	25 - 163
1,2,3,7,8,9-HxCDD	100	100	100	64 - 162	13C-1,2,3,7,8,9-HxCDD	104	21 - 193
1,2,3,4,6,7,8-HpCDD	95.7	100	95.7	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	102	26 - 166
OCDD	204	200	102	78 - 144	13C-OCDD	86.0	13 - 199
2,3,7,8-TCDF	17.9	20.0	89.4	75 - 158	13C-2,3,7,8-TCDF	87.6	22 - 152
1,2,3,7,8-PeCDF	98.2	100	98.2	80 - 134	13C-1,2,3,7,8-PeCDF	101	21 - 192
2,3,4,7,8-PeCDF	99.2	100	99.2	68 - 160	13C-2,3,4,7,8-PeCDF	103	13 - 328
1,2,3,4,7,8-HxCDF	94.2	100	94.2	72 - 134	13C-1,2,3,4,7,8-HxCDF	102	19 - 202
1,2,3,6,7,8-HxCDF	94.0	100	94.0	84 - 130	13C-1,2,3,6,7,8-HxCDF	95.2	21 - 159
2,3,4,6,7,8-HxCDF	95.1	100	95.1	70 - 156	13C-2,3,4,6,7,8-HxCDF	101	22 - 176
1,2,3,7,8,9-HxCDF	94.0	100	94.0	78 - 130	13C-1,2,3,7,8,9-HxCDF	99.7	17 - 205
1,2,3,4,6,7,8-HpCDF	93.0	100	93.0	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	81.1	21 - 158
1,2,3,4,7,8,9-HpCDF	94.2	100	94.2	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	101	20 - 186
OCDF	192	200	95.9	63 - 170	13C-OCDF	85.3	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	86.4	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: USMPDI-009SC-A-03-04-201112 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002535-01 Date Received: 17-Nov-2020 10:43
Project: GascoSiltronic: US Moorings	Sample Size: 15.1 g	QC Batch: B0L0034 Date Extracted: 05-Dec-2020 16:10
Date Collected: 12-Nov-2020 8:45	% Solids: 67.1	Date Analyzed: 15-Dec-20 20:02 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.188			IS 13C-2,3,7,8-TCDD	16.1	25 - 164	H
1,2,3,7,8-PeCDD	ND	0.270			13C-1,2,3,7,8-PeCDD	17.8	25 - 181	H
1,2,3,4,7,8-HxCDD	ND	0.518			13C-1,2,3,4,7,8-HxCDD	18.5	32 - 141	H
1,2,3,6,7,8-HxCDD	2.38			J	13C-1,2,3,6,7,8-HxCDD	17.2	28 - 130	H
1,2,3,7,8,9-HxCDD	ND	0.553			13C-1,2,3,7,8,9-HxCDD	16.5	32 - 141	H
1,2,3,4,6,7,8-HpCDD	200				13C-1,2,3,4,6,7,8-HpCDD	15.6	23 - 140	H
OCDD	1400			B	13C-OCDD	11.5	17 - 157	H
2,3,7,8-TCDF	0.969				13C-2,3,7,8-TCDF	16.5	24 - 169	H
1,2,3,7,8-PeCDF	1.50			J	13C-1,2,3,7,8-PeCDF	19.2	24 - 185	H
2,3,4,7,8-PeCDF	1.78			J	13C-2,3,4,7,8-PeCDF	17.6	21 - 178	H
1,2,3,4,7,8-HxCDF	2.44			J	13C-1,2,3,4,7,8-HxCDF	16.0	26 - 152	H
1,2,3,6,7,8-HxCDF	0.776			J	13C-1,2,3,6,7,8-HxCDF	14.8	26 - 123	H
2,3,4,6,7,8-HxCDF	0.762			J	13C-2,3,4,6,7,8-HxCDF	14.9	28 - 136	H
1,2,3,7,8,9-HxCDF	ND	0.279			13C-1,2,3,7,8,9-HxCDF	14.6	29 - 147	H
1,2,3,4,6,7,8-HpCDF	8.35				13C-1,2,3,4,6,7,8-HpCDF	11.1	28 - 143	H
1,2,3,4,7,8,9-HpCDF	0.849			J	13C-1,2,3,4,7,8,9-HpCDF	13.9	26 - 138	H
OCDF	26.7			B	13C-OCDF	10.5	17 - 157	H
					CRS 37Cl-2,3,7,8-TCDD	92.0	35 - 197	

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

TEQMinWHO2005Dioxin 3.83

TOTALS		
Total TCDD	ND	0.459
Total PeCDD	1.53	3.42
Total HxCDD	32.5	
Total HpCDD	389	
Total TCDF	7.00	
Total PeCDF	18.1	18.4
Total HxCDF	14.5	
Total HpCDF	29.1	

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

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

Sample ID: USMPDI-009SC-A-04-05-201112 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002535-02 Date Received: 17-Nov-2020 10:43
Project: GascoSiltronic: US Moorings	Sample Size: 18.7 g	QC Batch: B0L0034 Date Extracted: 05-Dec-2020 16:10
Date Collected: 12-Nov-2020 8:45	% Solids: 55.5	Date Analyzed: 15-Dec-20 20:46 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0355			IS 13C-2,3,7,8-TCDD	48.9	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0803			13C-1,2,3,7,8-PeCDD	57.3	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0582			13C-1,2,3,4,7,8-HxCDD	56.8	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0617			13C-1,2,3,6,7,8-HxCDD	52.8	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0605			13C-1,2,3,7,8,9-HxCDD	52.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.159			J	13C-1,2,3,4,6,7,8-HpCDD	51.0	23 - 140	
OCDD	0.894			J, B	13C-OCDD	41.9	17 - 157	
2,3,7,8-TCDF	ND	0.0318			13C-2,3,7,8-TCDF	50.3	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0378			13C-1,2,3,7,8-PeCDF	61.8	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0375			13C-2,3,4,7,8-PeCDF	58.4	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0489			13C-1,2,3,4,7,8-HxCDF	47.8	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0474			13C-1,2,3,6,7,8-HxCDF	44.6	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0534			13C-2,3,4,6,7,8-HxCDF	47.2	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0653			13C-1,2,3,7,8,9-HxCDF	46.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0683			13C-1,2,3,4,6,7,8-HpCDF	37.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0594			13C-1,2,3,4,7,8,9-HpCDF	46.9	26 - 138	
OCDF	ND	0.0932			13C-OCDF	38.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	73.5	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.00186

TOTALS		
Total TCDD	ND	0.0355
Total PeCDD	ND	0.0803
Total HxCDD	ND	0.0617
Total HpCDD	0.159	
Total TCDF	ND	0.0318
Total PeCDF	ND	0.0378
Total HxCDF	ND	0.0653
Total HpCDF	ND	0.0683

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: USMPDI-009SC-A-05-06-201112 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002535-03 Date Received: 17-Nov-2020 10:43
Project: GascoSiltronic: US Moorings	Sample Size: 17.0 g	QC Batch: B0L0034 Date Extracted: 05-Dec-2020 16:10
Date Collected: 12-Nov-2020 8:45	% Solids: 59.3	Date Analyzed: 15-Dec-20 21:30 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0489			IS 13C-2,3,7,8-TCDD	94.4	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0529			13C-1,2,3,7,8-PeCDD	112	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0656			13C-1,2,3,4,7,8-HxCDD	117	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0700			13C-1,2,3,6,7,8-HxCDD	110	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0678			13C-1,2,3,7,8,9-HxCDD	109	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.429			J	13C-1,2,3,4,6,7,8-HpCDD	107	23 - 140	
OCDD	2.82			J, B	13C-OCDD	89.8	17 - 157	
2,3,7,8-TCDF	ND	0.0345			13C-2,3,7,8-TCDF	95.2	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0412			13C-1,2,3,7,8-PeCDF	116	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0386			13C-2,3,4,7,8-PeCDF	112	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0248			13C-1,2,3,4,7,8-HxCDF	97.4	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0231			13C-1,2,3,6,7,8-HxCDF	91.0	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0251			13C-2,3,4,6,7,8-HxCDF	97.1	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.0409		13C-1,2,3,7,8,9-HxCDF	94.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.0616			J	13C-1,2,3,4,6,7,8-HpCDF	78.9	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0257			13C-1,2,3,4,7,8,9-HpCDF	94.8	26 - 138	
OCDF	ND		0.0637		13C-OCDF	81.5	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	88.1	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.00575

TOTALS				
Total TCDD	0.211			
Total PeCDD	0.127		0.230	
Total HxCDD	0.492		0.696	
Total HpCDD	0.988			
Total TCDF	0.278			
Total PeCDF	ND	0.0412		
Total HxCDF	ND		0.0863	
Total HpCDF	0.0616			

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: USMPDI-009SC-A-05-06-201112	QC Batch: B0L0034	Lab Sample: B0L0034-DUP2
Source LabNumber: 2002535-03	Date Extracted: 05-Dec-2020 16:10	Date Analyzed: 14-Dec-20 19:06 Column: ZB-DIOXIN
Matrix: Solid		
Sample Size: 17.2 g		

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.0610		IS 13C-2,3,7,8-TCDD	100	25 - 164	
1,2,3,7,8-PeCDD	0.0844			J	13C-1,2,3,7,8-PeCDD	104	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0604			13C-1,2,3,4,7,8-HxCDD	110	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0614			13C-1,2,3,6,7,8-HxCDD	106	28 - 130	
1,2,3,7,8,9-HxCDD	0.222			J	13C-1,2,3,7,8,9-HxCDD	105	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.18			J	13C-1,2,3,4,6,7,8-HpCDD	106	23 - 140	
OCDD	9.65			B	13C-OCDD	85.5	17 - 157	
2,3,7,8-TCDF	0.124			J	13C-2,3,7,8-TCDF	101	24 - 169	
1,2,3,7,8-PeCDF	ND		0.0799		13C-1,2,3,7,8-PeCDF	110	24 - 185	
2,3,4,7,8-PeCDF	ND		0.0776		13C-2,3,4,7,8-PeCDF	108	21 - 178	
1,2,3,4,7,8-HxCDF	0.0837			J	13C-1,2,3,4,7,8-HxCDF	98.7	26 - 152	
1,2,3,6,7,8-HxCDF	0.0684			J	13C-1,2,3,6,7,8-HxCDF	91.2	26 - 123	
2,3,4,6,7,8-HxCDF	0.0534			J	13C-2,3,4,6,7,8-HxCDF	97.6	28 - 136	
1,2,3,7,8,9-HxCDF	0.0424			J	13C-1,2,3,7,8,9-HxCDF	96.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.151			J	13C-1,2,3,4,6,7,8-HpCDF	79.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0291			13C-1,2,3,4,7,8,9-HpCDF	97.2	26 - 138	
OCDF	0.0962			J, B	13C-OCDF	80.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	95.4	35 - 197	

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

TEQMinWHO2005Dioxin 0.160

TOTALS		
Total TCDD	1.10	1.16
Total PeCDD	1.10	1.38
Total HxCDD	2.61	
Total HpCDD	2.83	
Total TCDF	2.26	2.53
Total PeCDF	0.590	0.844
Total HxCDF	0.489	
Total HpCDF	0.151	

DL - Sample specific estimated detection limit

EMPC - Estimated maximum possible concentration

LCL-UCL - Lower control limit - upper control limit

The results are reported in dry weight.

The sample size is reported in wet weight.

Sample ID: Duplicate					EPA Method 1613B				
Source Client ID: USMPDI-009SC-A-05-06-201112					Duplicate Lab Sample: B0L0034-DUP2				
Source LabNumber: 2002535-03									
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	35	IS 13C-2,3,7,8-TCDD	100	94.4	25 - 164	
1,2,3,7,8-PeCDD	0.0844	ND	#	35	13C-1,2,3,7,8-PeCDD	104	112	25 - 181	
1,2,3,4,7,8-HxCDD	ND	ND	NA	35	13C-1,2,3,4,7,8-HxCDD	110	117	32 - 141	
1,2,3,6,7,8-HxCDD	ND	ND	NA	35	13C-1,2,3,6,7,8-HxCDD	106	110	28 - 130	
1,2,3,7,8,9-HxCDD	0.222	ND	#	35	13C-1,2,3,7,8,9-HxCDD	105	109	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.18	0.429	93.6	35	13C-1,2,3,4,6,7,8-HpCDD	106	107	23 - 140	
OCDD	9.65	2.82	110	35	13C-OCDD	85.5	89.8	17 - 157	
2,3,7,8-TCDF	0.124	ND	#	35	13C-2,3,7,8-TCDF	101	95.2	24 - 169	
1,2,3,7,8-PeCDF	ND	ND	NA	35	13C-1,2,3,7,8-PeCDF	110	116	24 - 185	
2,3,4,7,8-PeCDF	ND	ND	NA	35	13C-2,3,4,7,8-PeCDF	108	112	21 - 178	
1,2,3,4,7,8-HxCDF	0.0837	ND	#	35	13C-1,2,3,4,7,8-HxCDF	98.7	97.4	26 - 152	
1,2,3,6,7,8-HxCDF	0.0684	ND	#	35	13C-1,2,3,6,7,8-HxCDF	91.2	91.0	26 - 123	
2,3,4,6,7,8-HxCDF	0.0534	ND	#	35	13C-2,3,4,6,7,8-HxCDF	97.6	97.1	28 - 136	
1,2,3,7,8,9-HxCDF	0.0424	ND	#	35	13C-1,2,3,7,8,9-HxCDF	96.5	94.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.151	0.0616	84.0	35	13C-1,2,3,4,6,7,8-HpCDF	79.1	78.9	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	ND	NA	35	13C-1,2,3,4,7,8,9-HpCDF	97.2	94.8	26 - 138	
OCDF	0.0962	ND	#	35	13C-OCDF	80.7	81.5	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	95.4	88.1	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: USMPDI-009SC-A-06-07-201112 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002535-04 Date Received: 17-Nov-2020 10:43
Project: GascoSiltronic: US Moorings	Sample Size: 15.3 g	QC Batch: B0L0034 Date Extracted: 05-Dec-2020 16:10
Date Collected: 12-Nov-2020 8:45	% Solids: 65.4	Date Analyzed: 15-Dec-20 22:15 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0239			IS 13C-2,3,7,8-TCDD	107	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0356			13C-1,2,3,7,8-PeCDD	125	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0380			13C-1,2,3,4,7,8-HxCDD	127	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0232			13C-1,2,3,6,7,8-HxCDD	120	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0397			13C-1,2,3,7,8,9-HxCDD	119	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.465			J	13C-1,2,3,4,6,7,8-HpCDD	114	23 - 140	
OCDD	3.24			J, B	13C-OCDD	95.6	17 - 157	
2,3,7,8-TCDF	ND	0.0254			13C-2,3,7,8-TCDF	110	24 - 169	
1,2,3,7,8-PeCDF	0.0339			J	13C-1,2,3,7,8-PeCDF	130	24 - 185	
2,3,4,7,8-PeCDF	0.0304			J	13C-2,3,4,7,8-PeCDF	119	21 - 178	
1,2,3,4,7,8-HxCDF	0.0344			J	13C-1,2,3,4,7,8-HxCDF	105	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0180			13C-1,2,3,6,7,8-HxCDF	99.4	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0205			13C-2,3,4,6,7,8-HxCDF	105	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0244			13C-1,2,3,7,8,9-HxCDF	103	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0354			13C-1,2,3,4,6,7,8-HpCDF	83.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0304			13C-1,2,3,4,7,8,9-HpCDF	101	26 - 138	
OCDF	0.111			J, B	13C-OCDF	86.9	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	103	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.0192

TOTALS			
Total TCDD	ND		0.188
Total PeCDD	0.0534		0.0938
Total HxCDD	0.343		0.555
Total HpCDD	1.05		
Total TCDF	0.230		
Total PeCDF	0.0924		0.118
Total HxCDF	0.0662		
Total HpCDF	ND	0.0354	

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: USMPDI-1009SC-A-04-05-201112 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002535-05 Date Received: 17-Nov-2020 10:43
Project: GascoSiltronic: US Moorings	Sample Size: 18.8 g	QC Batch: B0L0034 Date Extracted: 05-Dec-2020 16:10
Date Collected: 12-Nov-2020 8:45	% Solids: 54.0	Date Analyzed: 15-Dec-20 22:59 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.0346		IS 13C-2,3,7,8-TCDD	107	25 - 164	
1,2,3,7,8-PeCDD	0.0813			J	13C-1,2,3,7,8-PeCDD	122	25 - 181	
1,2,3,4,7,8-HxCDD	0.0748			J	13C-1,2,3,4,7,8-HxCDD	124	32 - 141	
1,2,3,6,7,8-HxCDD	0.126			J	13C-1,2,3,6,7,8-HxCDD	118	28 - 130	
1,2,3,7,8,9-HxCDD	0.205			J	13C-1,2,3,7,8,9-HxCDD	117	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.72			J	13C-1,2,3,4,6,7,8-HpCDD	112	23 - 140	
OCDD	16.6			B	13C-OCDD	83.9	17 - 157	
2,3,7,8-TCDF	0.113			J	13C-2,3,7,8-TCDF	108	24 - 169	
1,2,3,7,8-PeCDF	0.0943			J	13C-1,2,3,7,8-PeCDF	126	24 - 185	
2,3,4,7,8-PeCDF	ND		0.0746		13C-2,3,4,7,8-PeCDF	123	21 - 178	
1,2,3,4,7,8-HxCDF	0.112			J	13C-1,2,3,4,7,8-HxCDF	105	26 - 152	
1,2,3,6,7,8-HxCDF	0.103			J	13C-1,2,3,6,7,8-HxCDF	97.7	26 - 123	
2,3,4,6,7,8-HxCDF	0.0910			J	13C-2,3,4,6,7,8-HxCDF	101	28 - 136	
1,2,3,7,8,9-HxCDF	0.0228			J	13C-1,2,3,7,8,9-HxCDF	99.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.550			J	13C-1,2,3,4,6,7,8-HpCDF	81.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.0612			J	13C-1,2,3,4,7,8,9-HpCDF	97.4	26 - 138	
OCDF	0.539			J, B	13C-OCDF	78.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	102	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.197

TOTALS		
Total TCDD	0.897	1.07
Total PeCDD	0.357	0.830
Total HxCDD	2.58	
Total HpCDD	4.22	
Total TCDF	1.09	2.74
Total PeCDF	0.994	1.24
Total HxCDF	0.798	0.838
Total HpCDF	0.782	

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
K	EMPC (specific projects only)
LOD	Limit of Detection
LOQ	Limit of Quantitation
M	Estimated Maximum Possible Concentration (CA Region 2 projects only)
MDL	Method Detection Limit
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)

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

Vista Analytical Laboratory Certifications

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

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

NELAP Accredited Test Methods

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

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

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

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

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

2002535 2-6°C

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

Project: GascoSiltronic: US Moorings
Client: NW Natural

COC ID: VISTA-20201112-102047
Sample Custodian: CO
Lab: VISTA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
001	USMPDI-009SC-A-03-04-201112	N	SE	11/12/2020	8:45	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
002	USMPDI-009SC-A-04-05-201112	N	SE	11/12/2020	8:45	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
003	USMPDI-009SC-A-05-06-201112	N	SE	11/12/2020	8:45	2	<input checked="" type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
004	USMPDI-009SC-A-06-07-201112	N	SE	11/12/2020	8:45	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
005	USMPDI-1009SC-A-04-05-201112	FD	SE	11/12/2020		1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C

Comment:					
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: JAMES MURPHY	Print Name: William R. W. [Signature]	Print Name:	Print Name:	Print Name:	Print Name:
Company: AQ	Company: VAL	Company:	Company:	Company:	Company:
Date/Time: 11/12/20 11:00	Date/Time: 11/17/20 10:43	Date/Time:	Date/Time:	Date/Time:	Date/Time:

Sample Log-In Checklist

 Page # 1 of 1

 Vista Work Order #: 2002535 TAT Std

Samples Arrival:	Date/Time <u>11/17/20 10:43</u>		Initials: <u>WRW</u>		Location: <u>WR-2</u>		
	Shelf/Rack: <u>NA</u>						
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac	<input type="checkbox"/> GLS	<input type="checkbox"/> DHL	<input type="checkbox"/> Hand Delivered	<input type="checkbox"/> Other
Preservation:	<input checked="" type="checkbox"/> Ice		<input type="checkbox"/> Blue Ice		<input type="checkbox"/> Techni Ice	<input type="checkbox"/> Dry Ice	<input type="checkbox"/> None
Temp °C: <u>2.6</u> (uncorrected)	Probe used: Y / <input checked="" type="checkbox"/> N			Thermometer ID: <u>IR-3</u>			
Temp °C: <u>2.6</u> (corrected)							

	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Airbill <u> </u> Trk # <u>7720 9793 2365</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Container	<input checked="" type="checkbox"/> Vista	<input type="checkbox"/> Client	<input type="checkbox"/> Retain
	<input type="checkbox"/> Return	<input type="checkbox"/> Dispose	
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chain of Custody / Sample Documentation Complete?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Holding Time Acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Logged In:	Date/Time <u>11/18/20 8:54</u>		Initials: <u>JA</u>		Location: <u>WR-2</u>				
	Shelf/Rack: <u>H-4</u>								
COC Anomaly/Sample Acceptance Form completed?							<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:

CoC/Label Reconciliation Report WO# 2002535

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2002535-01	A USMPDI-009SC-A-03-04-201112		12-Nov-20 08:45	Amber Glass, 120 mL	Solid	
2002535-02	A USMPDI-009SC-A-04-05-201112		12-Nov-20 08:45	Amber Glass, 120 mL	Solid	
2002535-03	A USMPDI-009SC-A-05-06-201112		12-Nov-20 08:45	Amber Glass, 120 mL	Solid	DUP
2002535-03	B USMPDI-009SC-A-05-06-201112		12-Nov-20 08:45	Amber Glass, 120 mL	Solid	DUP
2002535-04	A USMPDI-009SC-A-06-07-201112		12-Nov-20 08:45	Amber Glass, 120 mL	Solid	
2002535-05	A USMPDI-1009SC-A-04-05-201112		12-Nov-20 08:45	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: HS 11/19/20

EXTRACTION INFORMATION

Process Sheet
 Workorder: **2002535**

Prep Expiration: 2021-11-12
 Client: Anchor QEA, LLC

Workorder Due: **17-Dec-20 00:00**

TAT: 30

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

Prep Batch: BOL0034

Prep Data Entered: IM 12/08/20
Date and Initials

Initial Sequence: SOL0033

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
2002535-01	<input checked="" type="checkbox"/>	USMPDI-009SC-A-03-04-201112	17-Nov-20 10:43	WR-2 H-4	
2002535-02	<input checked="" type="checkbox"/>	USMPDI-009SC-A-04-05-201112	17-Nov-20 10:43	WR-2 H-4	
2002535-03	<input checked="" type="checkbox"/>	USMPDI-009SC-A-05-06-201112	17-Nov-20 10:43	WR-2 H-4	DUP
2002535-04	<input checked="" type="checkbox"/>	USMPDI-009SC-A-06-07-201112	17-Nov-20 10:43	WR-2 H-4	
2002535-05	<input checked="" type="checkbox"/>	USMPDI-1009SC-A-04-05-201112	17-Nov-20 10:43	WR-2 H-4	

WO Comments: 1613: 10g dw

Pre-Prep Check Out: IM 12/01/20

Prep Check Out: RR 12/05/20

Prep Reconciled Initials/Date: IM 12/01/20

Pre-Prep Check In: IM 12/01/20

Prep Check In: RR 12/05/20

Spike Reconciled Initials/Date: RR 12/05/20

VialBoxID: Ornament

PREPARATION BENCH SHEET

Matrix: Solid

B0L0034

Chemist: RR

Method: 1613 Full List

Prep Date/Time: 04-Dec-20 16:10

Prepared using: HRMS - Soxhlet

Column Packer: NA IM 12/06/20 DG 12/06/20 DG 12/06/20

Sox	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS/PS CHEM/WIT DATE	AP CHEM/DATE	ABSG CHEM/DATE	AA CHEM/DATE	Florisil CHEM/DATE	RS CHEM/WIT DATE
A1	B0L0034-BLK1	NA	(10.00)	RRME 12/05/20	DG IM 12/06/20	NA	DG 12/06/20	DG 12/06/20	DG 12/06/20	IM DG 12/07/20
A2	B0L0034-BS1	↓	(10.00)							
A3	B0L0034-DUP1 2002435-04 ①	16.83	16.99				yellow and teal w/ brown rings			
A4	B0L0034-DUP2 2002535-03	16.87	17.17							
A6	2002435-01	17.13	17.14							
A7	2002435-02	13.68	13.80				beige, salmon, + grey rings			
A8	2002435-03	12.95	13.01							
A9	2002435-04	16.83	17.21				(A)			
⑦ A10	2002435-05	13.59	13.64				(B)			
A11	2002435-06	16.81	16.98				(A)			
③ A12	2002435-07	16.45	16.45				(C)			
B1	2002435-08	16.22	16.40				(A)			
B2	2002435-09	11.49	11.49				(B)			
B3	2002435-10	17.44	17.69				(A)			
B4	2002435-11	14.85	14.96				(A)			

IS: 20F1101, 10mL (V3)
 NS: 20E0107, 10mL (V4)
 PS/CRS: 20E0701, 10mL (V1)
 RS: 20H2502, 10µL (V6)
 DioX/F PCB PAH PEST PBDE HCB

Cycle Time
 Start Date/Time: 12/05/20 1121
 Stop Date/Time: 12/06/20 0632

APP: SEFUN (SOX) SDS
 SOLV: Toluene
 Other: NA
 Final Volume(s): C14 20mL

Check Out: Chemist/Date: RR 12/05/20
 Check In: Chemist/Date: RR 12/05/20
 Balance ID: HRMS-08

Soxhlet Siphoned Chemist/Date: RR 12/05/20
 Vial Transfer Chemist/Date: IM 12/07/20

Notes: (A) Yellow and teal w/ brown rings DG 12/06/20
 (B) Beige, salmon, and grey rings DG 12/06/20
 (C) Orange, yellow, and teal w/ brown/black rings DG 12/06/20
 (D) DG 12/07/20

- 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
 - 7 = Soxhlet approached dryness

PREPARATION BENCH SHEET

Matrix: Solid

B0L0034

Chemist: RR

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 04-Dec-20 16:10

Sox	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS/PS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
B5	2002435-12	11.39	11.69	RR ME 12/05/20	DG IM 12/06/20	NA	DG B 12/06/20	DG 12/06/20	DG 12/06/20	IM DG 12/07/20
B6	2002435-13	15.50	15.54				A			
B7	2002535-01	14.90	15.10				A			
B8	2002535-02	18.01	18.67				A			
B9	2002535-03	16.87	16.97				A			
B10	2002535-04	15.28	15.33				A			
B11	2002535-05	18.51	18.77				C			

IS: 20F1101, 10mL (V3)	Cycle Time	APP: SEFUN SOX SDS	Check Out: Chemist/Date: RR 12/15/20	Soxhlet Siphoned Chemist/Date: RR 12/05/20	Notes: A Yellow and teal w/ brown rings DG 12/06/20 B Beige, salmon, and grey rings DG 12/06/20 C Orange, yellow, and teal w/ brown/black rings DG 12/06/20 D pipette broke into conical vial IM 12/07/20
NS: 20F0107, 10mL (V4)	Start Date/Time 12/05/20 1121	SOLV: Toluene	Check In: Chemist/Date: RR 12/05/20	Vial Transfer Chemist/Date: 12/07/20 IM	
PS/CRS: 20E0701, 10uL (V1)	Stop Date/Time 12/06/20 0632	Other NA	Balance ID: HRMS-08		
RS: 20H2502, 10uL (V6)		Final Volume(s) C14 20mL			
Diox/F PCB PAH PEST PBDE HCB					

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
- 7 = Soxhlet approached dryness

Percent Moisture/ Percent Solids

D2216-90

BATCH ID BOK0218

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

Inst HRMS-9 Date/Time IN: 12/01/20 11:51 Date/Time OUT: 12/02/20 09:10

B		C	D	E		F	G	H	I	K	L	M	N	O	P
Particle Size	Sample ID		Sample Type	Initial and Date:	IM 12/01/20	IM 12/02/20				IM 12/01/20			N/A		IM 12/01/20
				Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	Visual Inspection	Cl-	pH Before	pH After	Acid Added	Sample Homogenized*	
	2002535-01	A	Sample	1.25	5.75	4.27	N/A	N/A	MUD	N/A	N/A	N/A	N/A	X	
	2002535-02 *	T	Sample	1.27	4.98	3.33	T	T	T	T	T	T	T	X	
	2002535-03	T	Sample	1.26	5.04	3.50	T	T	T	T	T	T	T	X	
	2002535-04	T	Sample	1.26	5.31	3.91	T	T	T	T	T	T	T	X	
	2002535-05	T	Sample	1.26	5.24	3.41	T	T	T	T	T	T	T	X	

*Sample homogenized in sample container unless otherwise noted.
*Jar was $\frac{1}{2}$ full w/ sample IM 12/01/20

Batch: B0L0034

Matrix: Solid

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
2002435-01	17.14 ✓	58.38709	10.0075	20 ✓	05-Dec-20 16:10 ✓	RR ✓			Sediment	1613 Full List
2002435-02	13.8 ✓	73.12139	10.0908	20	05-Dec-20 16:10	RR			Sediment	1613 Full List
2002435-03	13.01 ✓	77.22222	10.0466	20	05-Dec-20 16:10	RR			Sediment	1613 Full List
2002435-04	17.21 ✓	59.41558	10.2254	20	05-Dec-20 16:10	RR			Sediment	1613 Full List
2002435-05	13.64 ✓	73.57294	10.0353	20	05-Dec-20 16:10	RR			Sediment	1613 Full List
2002435-06	16.98 ✓	59.49821	10.1028	20	05-Dec-20 16:10	RR			Sediment	1613 Full List
2002435-07	16.45 ✓	60.78431	9.9990	20	05-Dec-20 16:10	RR			Sediment	1613 Full List
2002435-08	16.4 ✓	61.64597	10.1099	20	05-Dec-20 16:10	RR			Sediment	1613 Full List
2002435-09	11.49 ✓	87.01657	9.9982	20	05-Dec-20 16:10	RR			Sediment	1613 Full List
2002435-10	17.69 ✓	57.34072	10.1436	20	05-Dec-20 16:10	RR			Sediment	1613 Full List
2002435-11	14.96 ✓	67.35395	10.0762	20	05-Dec-20 16:10	RR			Sediment	1613 Full List
2002435-12	11.69 ✓	87.78626	10.2622	20	05-Dec-20 16:10	RR			Sediment	1613 Full List
2002435-13	15.54 ✓	64.5084	10.0246	20	05-Dec-20 16:10	RR			Sediment	1613 Full List
2002535-01	15.1 ✓	67.11111	10.1338	20	05-Dec-20 16:10	RR			Sediment	1613 Full List
2002535-02	18.67 ✓	55.5256	10.3666	20	05-Dec-20 16:10	RR			Sediment	1613 Full List
2002535-03	16.97 ✓	59.25926	10.0563	20	05-Dec-20 16:10	RR			Sediment	1613 Full List
2002535-04	15.33 ✓	65.4321	10.0307	20	05-Dec-20 16:10	RR			Sediment	1613 Full List
2002535-05	18.77 ✓	54.02011	10.1396	20	05-Dec-20 16:10	RR			Sediment	1613 Full List
B0L0034-BLK1	10 ✓			20	05-Dec-20 16:10	RR				QC
B0L0034-BS1	10 ✓			20	05-Dec-20 16:10	RR	20F0107 ✓	10 ✓		QC
B0L0034-DUP1	16.99 ✓	59.41558	10.0947	20	05-Dec-20 16:10	RR				QC
B0L0034-DUP2	17.17 ✓	59.25926	10.1748	20 ✓	05-Dec-20 16:10 ✓	RR ✓				QC

All bolded data on report verified against written benchsheet by (initial/date) IM 12/08/20

SAMPLE DATA – EPA METHOD 1613

Dataset: U:\VG12.PRO\Results\201213R2\201213R2-4.qld

Last Altered: Wednesday, December 16, 2020 3:07:07 PM Pacific Standard Time

Printed: Wednesday, December 16, 2020 3:07:20 PM Pacific Standard Time

GRB 12/16/2020

Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32

Calibration: U:\VG12.PRO\CurveDB\ldbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

C1 12/16/2020

Name: 201213R2_4, Date: 13-Dec-2020, Time: 12:30:07, ID: B0L0034-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DU	EMPC
1	2,3,7,8-TCDD			NO	0.980	10.000	26.396		1.001				0.0116	
2	1,2,3,7,8-PeCDD			NO	0.932	10.000	31.079		1.001				0.0249	
3	1,2,3,4,7,8-HxCDD			NO	1.02	10.000	34.368		1.001				0.0326	
4	1,2,3,6,7,8-HxCDD			NO	0.902	10.000	34.494		1.001				0.0336	
5	1,2,3,7,8,9-HxCDD			NO	0.954	10.000	34.745		1.000				0.0339	
6	1,2,3,4,6,7,8-HpCDD	3.47e2	1.30	YES	0.918	10.000	38.211	38.21	1.000	1.000	0.077293		0.0226	0.0687
7	OCDD	1.62e3	0.96	NO	0.866	10.000	41.124	41.13	1.000	1.000	0.56688		0.0546	0.567
8	2,3,7,8-TCDF			NO	0.848	10.000	25.687		1.000				0.00907	
9	1,2,3,7,8-PeCDF			NO	0.960	10.000	29.800		1.000				0.0179	
10	2,3,4,7,8-PeCDF			NO	1.07	10.000	30.874		1.001				0.0169	
11	1,2,3,4,7,8-HxCDF			NO	0.986	10.000	33.457		1.000				0.0185	
12	1,2,3,6,7,8-HxCDF			NO	1.04	10.000	33.603		1.001				0.0188	
13	2,3,4,6,7,8-HxCDF			NO	1.02	10.000	34.264		1.001				0.0206	
14	1,2,3,7,8,9-HxCDF			NO	0.991	10.000	35.248		1.000				0.0265	
15	1,2,3,4,6,7,8-HpCDF			NO	1.05	10.000	36.824		1.000				0.0290	
16	1,2,3,4,7,8,9-HpCDF			NO	1.18	10.000	38.839		1.000				0.0248	
17	OCDF	2.91e2	0.77	NO	0.896	10.000	41.417	41.43	1.000	1.000	0.087769		0.0372	0.0878
18	13C-2,3,7,8-TCDD	2.04e6	0.78	NO	1.06	10.000	26.368	26.36	1.030	1.030	205.31	103	0.0935	
19	13C-1,2,3,7,8-PeCDD	1.53e6	0.65	NO	0.785	10.000	31.211	31.05	1.219	1.213	207.56	104	0.123	
20	13C-1,2,3,4,7,8-HxCDD	1.14e6	1.27	NO	0.621	10.000	34.348	34.35	1.014	1.014	224.61	112	0.286	
21	13C-1,2,3,6,7,8-HxCDD	1.28e6	1.27	NO	0.734	10.000	34.470	34.47	1.017	1.017	212.06	106	0.242	
22	13C-1,2,3,7,8,9-HxCDD	1.22e6	1.25	NO	0.723	10.000	34.755	34.74	1.026	1.025	205.72	103	0.245	
23	13C-1,2,3,4,6,7,8-HpCDD	9.77e5	1.06	NO	0.568	10.000	38.255	38.20	1.129	1.127	209.89	105	0.668	
24	13C-OCDD	1.32e6	0.90	NO	0.496	10.000	41.193	41.12	1.216	1.213	325.22	81.3	0.439	
25	13C-2,3,7,8-TCDF	2.84e6	0.77	NO	0.919	10.000	25.667	25.68	1.003	1.003	212.50	106	0.0909	
26	13C-1,2,3,7,8-PeCDF	2.22e6	1.58	NO	0.715	10.000	29.921	29.80	1.169	1.164	213.57	107	0.225	
27	13C-2,3,4,7,8-PeCDF	2.15e6	1.61	NO	0.689	10.000	31.008	30.85	1.212	1.205	214.80	107	0.234	
28	13C-1,2,3,4,7,8-HxCDF	1.46e6	0.51	NO	0.873	10.000	33.453	33.45	0.987	0.987	204.39	102	0.382	
29	13C-1,2,3,6,7,8-HxCDF	1.45e6	0.52	NO	0.933	10.000	33.582	33.58	0.991	0.991	189.94	95.0	0.358	
30	13C-2,3,4,6,7,8-HxCDF	1.38e6	0.50	NO	0.843	10.000	34.250	34.24	1.011	1.011	199.25	99.6	0.396	
31	13C-1,2,3,7,8,9-HxCDF	1.20e6	0.50	NO	0.780	10.000	35.249	35.24	1.040	1.040	187.64	93.8	0.428	

Dataset: U:\VG12.PRO\Results\201213R2\201213R2-4.qld

Last Altered: Wednesday, December 16, 2020 3:07:07 PM Pacific Standard Time

Printed: Wednesday, December 16, 2020 3:07:20 PM Pacific Standard Time

Name: 201213R2_4, Date: 13-Dec-2020, Time: 12:30:07, ID: B0L0034-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	9.63e5	0.43	NO	0.726	10.000	36.825	36.81	1.087	1.086	161.62	80.8	0.470	
33	13C-1,2,3,4,7,8,9-HpCDF	7.94e5	0.43	NO	0.491	10.000	38.835	38.83	1.146	1.146	197.17	98.6	0.695	
34	13C-OCDF	1.48e6	0.87	NO	0.565	10.000	41.410	41.41	1.222	1.222	319.16	79.8	0.388	
35	37Cl-2,3,7,8-TCDD	9.17e5			1.22	10.000	26.363	26.39	1.030	1.031	80.214	100	0.0209	
36	13C-1,2,3,4-TCDD	1.88e6	0.79	NO	1.00	10.000	25.640	25.59	1.000	1.000	200.00	100	0.0987	
37	13C-1,2,3,4-TCDF	2.91e6	0.78	NO	1.00	10.000	24.130	24.10	1.000	1.000	200.00	100	0.0836	
38	13C-1,2,3,4,6,9-HxCDF	1.64e6	0.51	NO	1.00	10.000	33.920	33.89	1.000	1.000	200.00	100	0.334	
39	Total Tetra-Dioxins				0.980	10.000	24.620		0.000				0.00663	
40	Total Penta-Dioxins				0.932	10.000	29.960		0.000				0.00791	
41	Total Hexa-Dioxins				0.902	10.000	33.635		0.000				0.0206	
42	Total Hepta-Dioxins				0.918	10.000	37.640		0.000		0.00000		0.0226	0.0687
43	Total Tetra-Furans				0.848	10.000	23.610		0.000				0.00403	
44	1st Func. Penta-Furans				0.960	10.000	26.930		0.000				0.00337	
45	Total Penta-Furans				0.960	10.000	29.275		0.000				0.00561	
46	Total Hexa-Furans				1.02	10.000	33.555		0.000				0.00972	
47	Total Hepta-Furans				1.05	10.000	37.835		0.000				0.0153	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201213R2\201213R2-4.qld

Last Altered: Wednesday, December 16, 2020 3:07:07 PM Pacific Standard Time

Printed: Wednesday, December 16, 2020 3:07:20 PM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32

Calibration: U:\VG12.PRO\CurveDB\ldbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201213R2_4, Date: 13-Dec-2020, Time: 12:30:07, ID: B0L0034-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

Penta-Dioxins

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

Hexa-Dioxins

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

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1.2.3.4.6.7.8-HpCDD	38.21	2.650e3	2.207e3	1.957e2	1.509e2	1.30	YES	3.466e2	0.00000	0.068665	0.0226

Tetra-Furans

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

Penta-Furans function 1

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

Dataset: U:\VG12.PRO\Results\201213R2\201213R2-4.qld

Last Altered: Wednesday, December 16, 2020 3:07:07 PM Pacific Standard Time
Printed: Wednesday, December 16, 2020 3:07:20 PM Pacific Standard Time

Name: 201213R2_4, Date: 13-Dec-2020, Time: 12:30:07, ID: B0L0034-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											

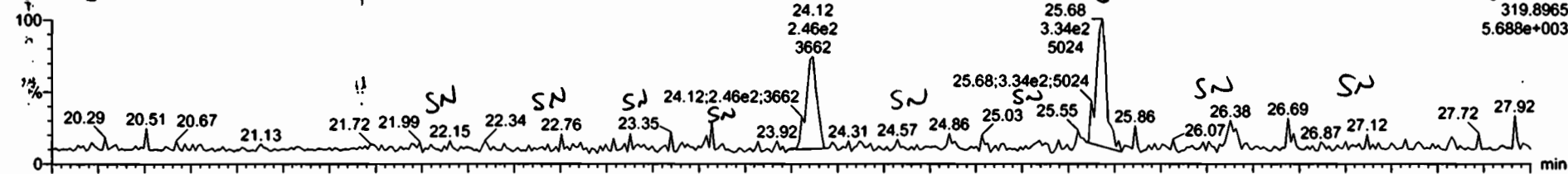
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Last Altered: Monday, December 14, 2020 07:01:44 Pacific Standard Time
Printed: Monday, December 14, 2020 07:12:56 Pacific Standard Time

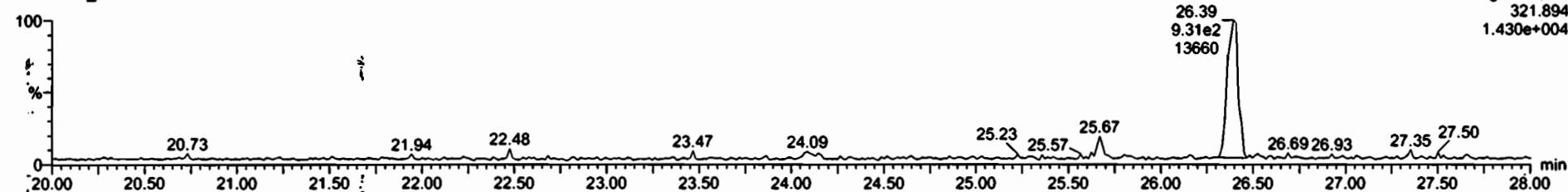
Name: 201213R2_4, Date: 13-Dec-2020, Time: 12:30:07, ID: B0L0034-BLK1 Method Blank 10, Description: Method Blank

2,3,7,8-TCDD

201213R2_4



201213R2_4

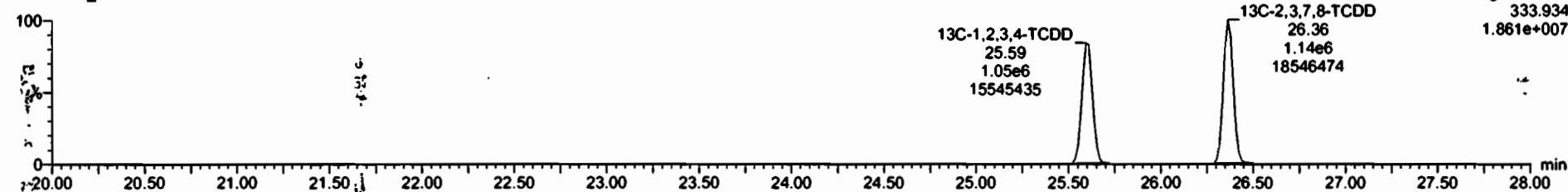


13C-2,3,7,8-TCDD

201213R2_4



201213R2_4



Dataset: Untitled

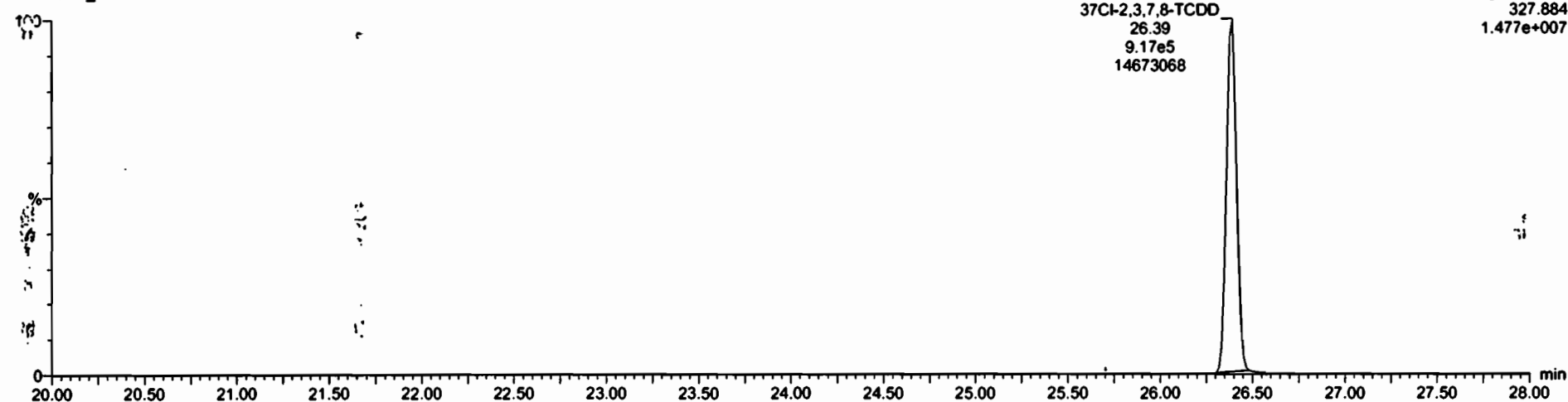
Last Altered: Monday, December 14, 2020 07:01:44 Pacific Standard Time

Printed: Monday, December 14, 2020 07:12:56 Pacific Standard Time

Name: 201213R2_4, Date: 13-Dec-2020, Time: 12:30:07, ID: B0L0034-BLK1 Method Blank 10, Description: Method Blank

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

201213R2_4



F1:Voltage SIR.EI+
327.884
1.477e+007

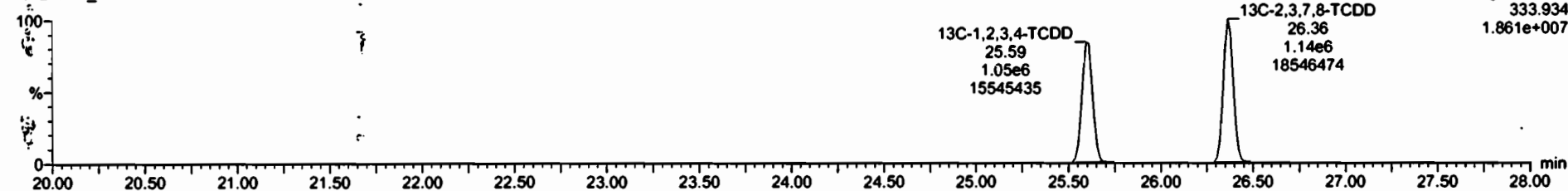
13C-1,2,3,4-TCDD

201213R2_4



F1:Voltage SIR.EI+
331.9368
1.457e+007

201213R2_4



F1:Voltage SIR.EI+
333.934
1.861e+007

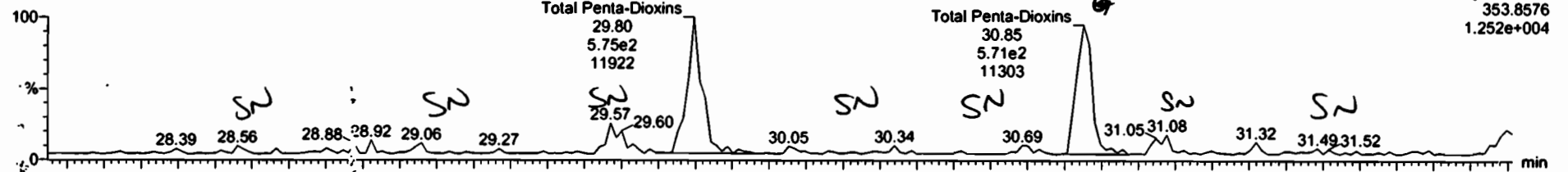
Dataset: Untitled

Last Altered: Monday, December 14, 2020 07:01:44 Pacific Standard Time
Printed: Monday, December 14, 2020 07:12:56 Pacific Standard Time

Name: 201213R2_4, Date: 13-Dec-2020, Time: 12:30:07, ID: B0L0034-BLK1 Method Blank 10, Description: Method Blank

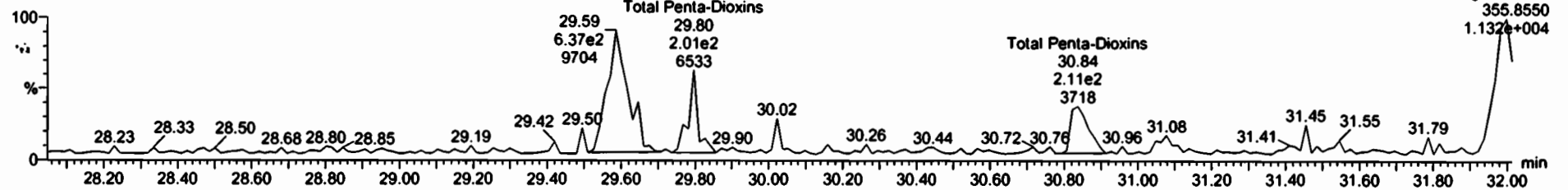
1,2,3,7,8-PeCDD

201213R2_4



F2:Voltage SIR,EI+
353.8576
1.252e+004

201213R2_4



F2:Voltage SIR,EI+
355.8550
1.132e+004

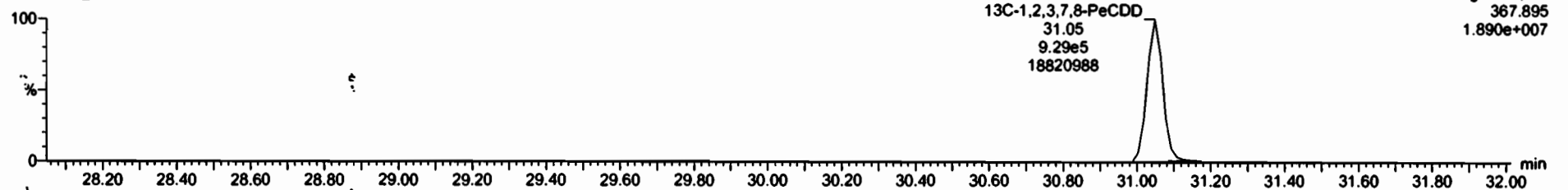
13C-1,2,3,7,8-PeCDD

201213R2_4



F2:Voltage SIR,EI+
365.8978
1.214e+007

201213R2_4



F2:Voltage SIR,EI+
367.895
1.890e+007

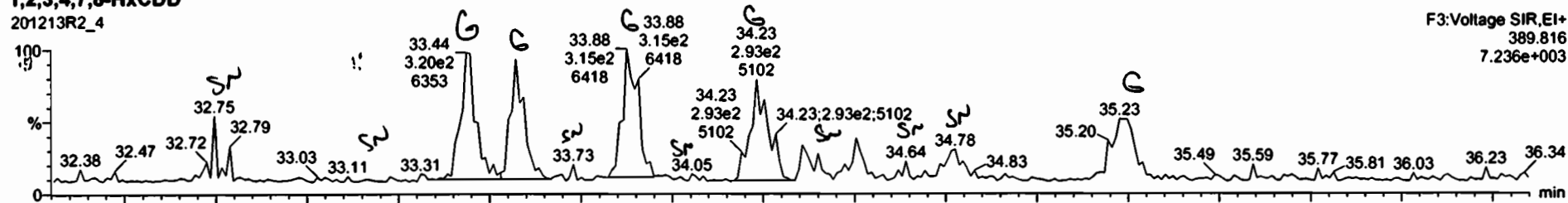
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Printed: Monday, December 14, 2020 07:12:56 Pacific Standard Time

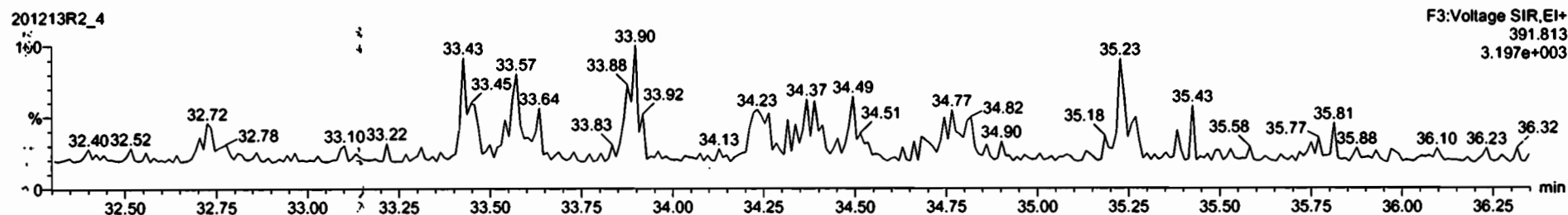
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1,2,3,4,7,8-HxCDD

201213R2_4

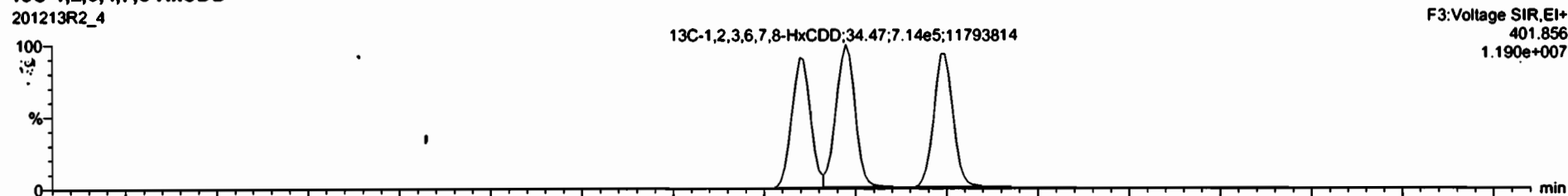


201213R2_4

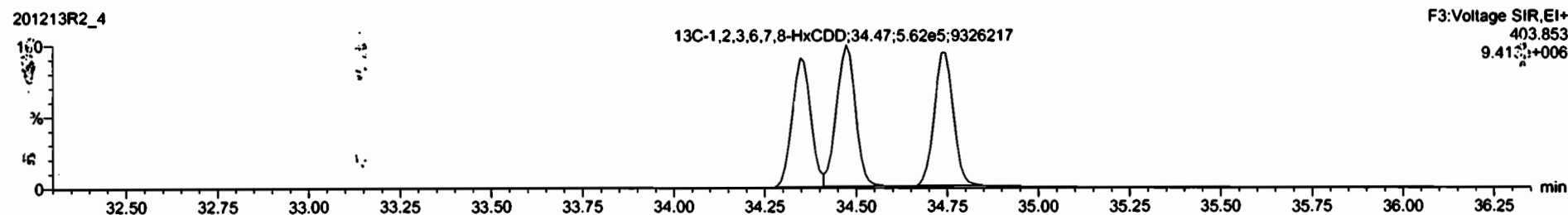


13C-1,2,3,4,7,8-HxCDD

201213R2_4



201213R2_4



Dataset: Untitled

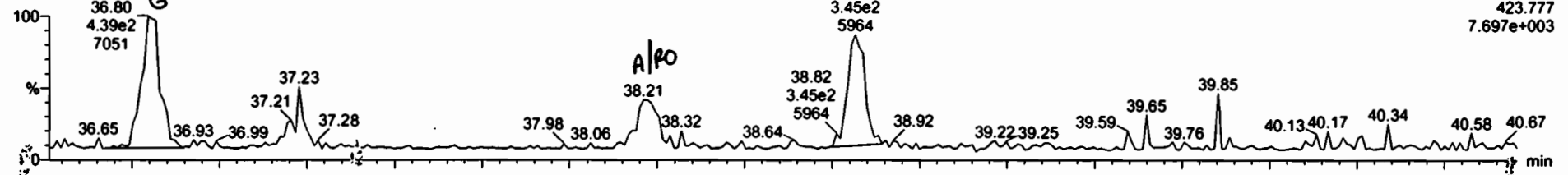
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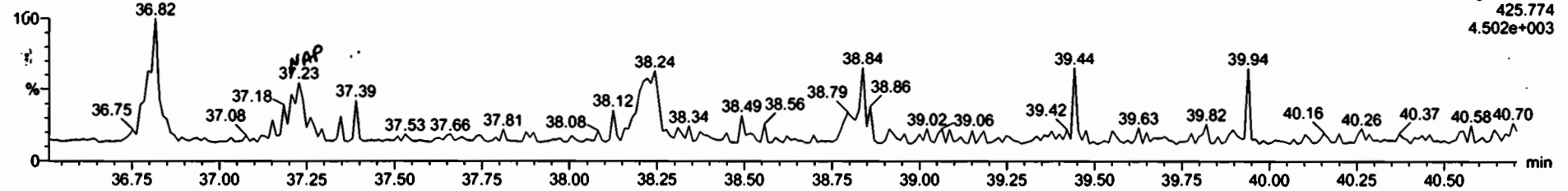
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1,2,3,4,6,7,8-HpCDD

201213R2_4

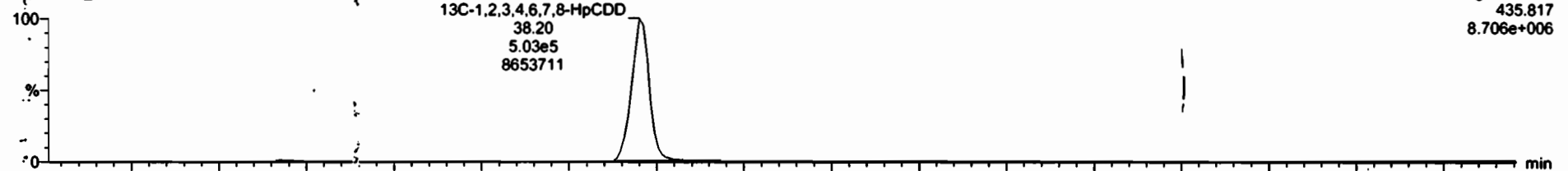


201213R2_4

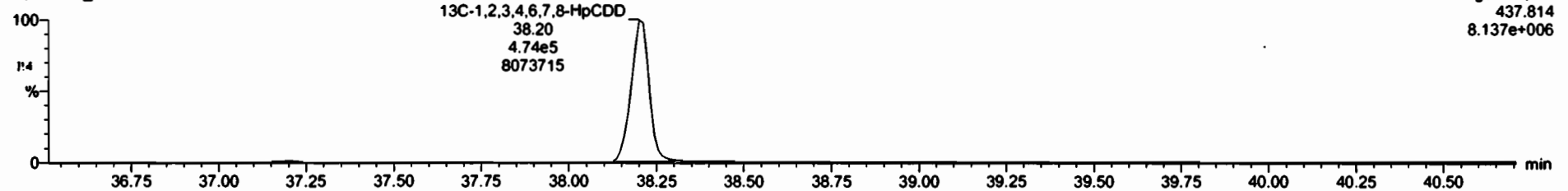


13C-1,2,3,4,6,7,8-HpCDD

201213R2_4



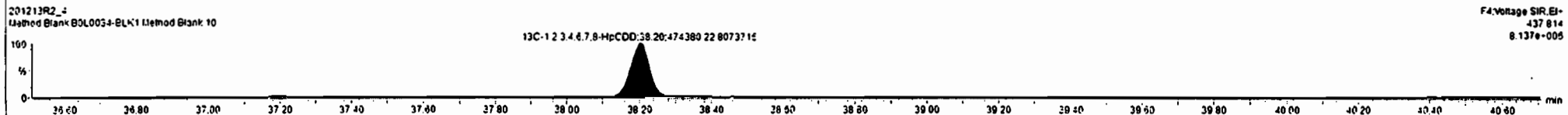
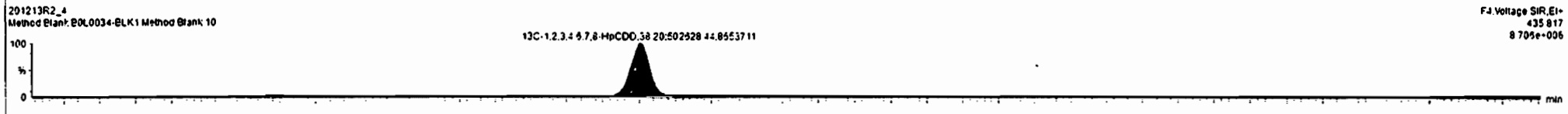
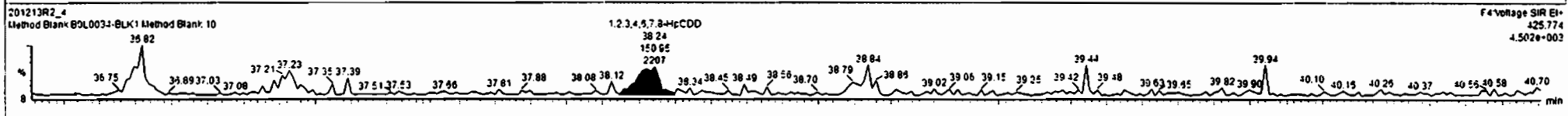
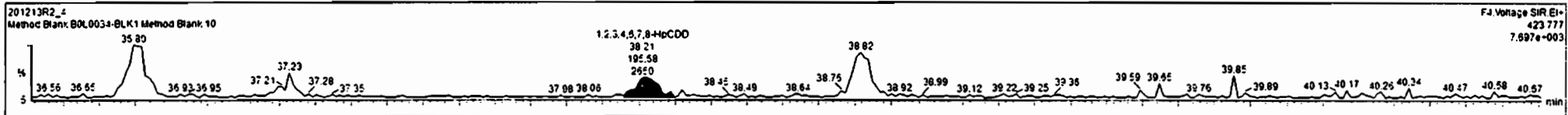
201213R2_4



201213R2_4 - B0L0034-BLK1 Method Blank 10 - Method Blank

Name	Resp	RA	nly	RFI	wTval	RT	RLT	Conc.	%Rec	DL	EUPC
2 Total Hexa-Chloro				0.0100	10.000			0.000	0.0220	0.0587	

Name	RT	nt Resp	nQ Resp	RA	nly	EUPC	Conc
1 1,2,3,4,6,7,8-HpCDD	38.21	1.957e2	1.509e2	1.30	YES	0.006695	0.00000

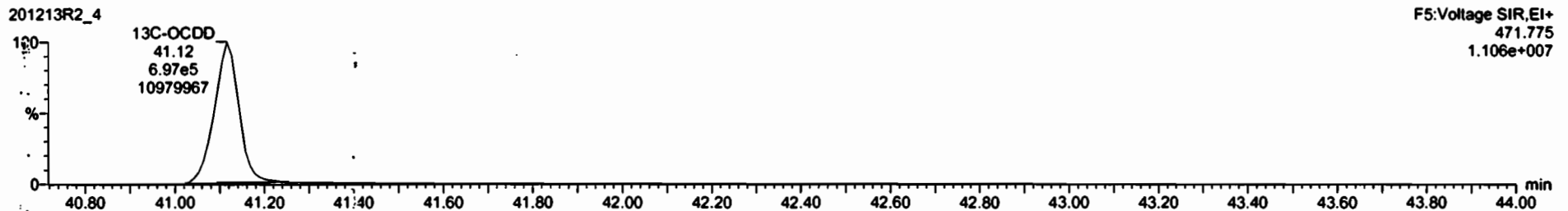
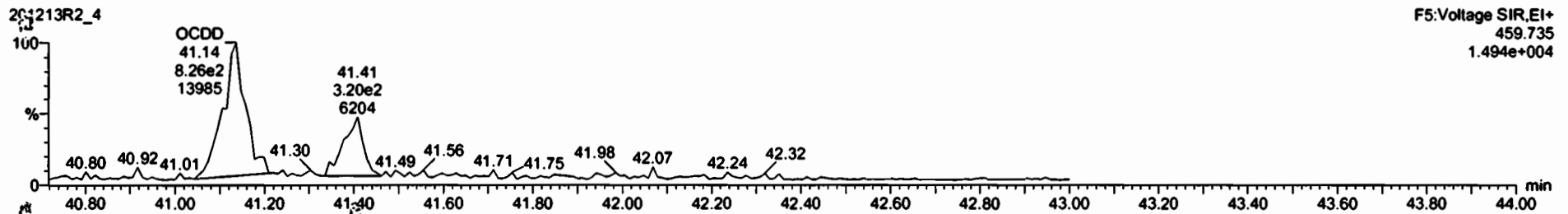
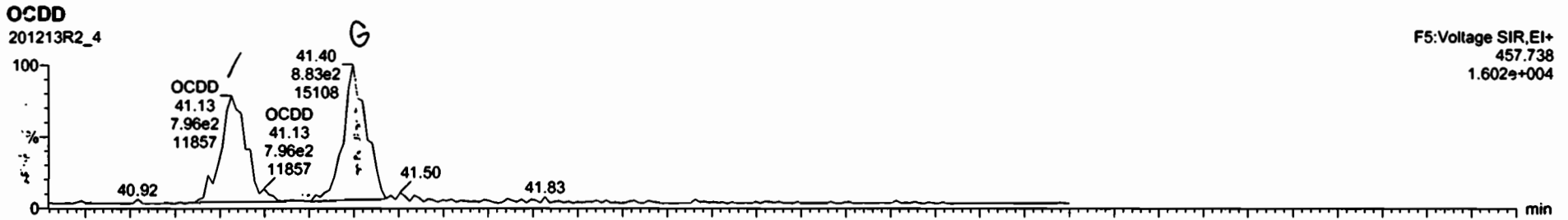


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Last Altered: Monday, December 14, 2020 07:01:44 Pacific Standard Time

Printed: Monday, December 14, 2020 07:12:56 Pacific Standard Time

Name: 201213R2_4, Date: 13-Dec-20:0, Time: 12:30:07, ID: B0L0034-BLK1 Method Blank 10, Description: Method Blank

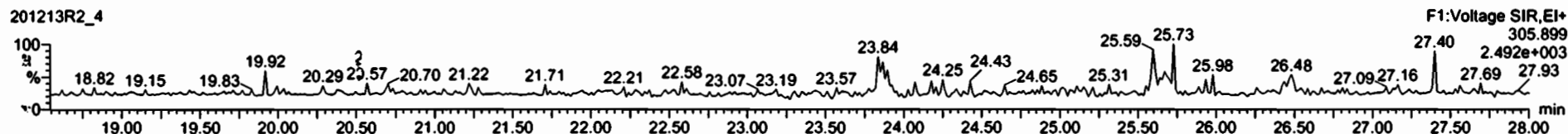
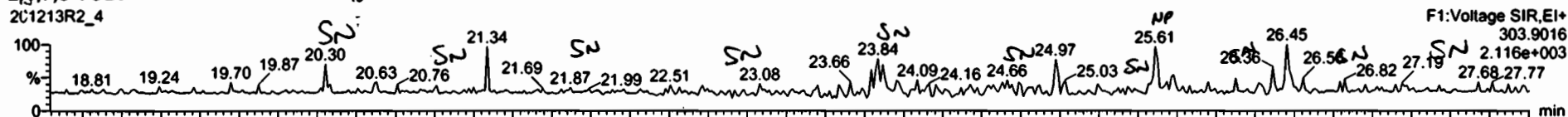


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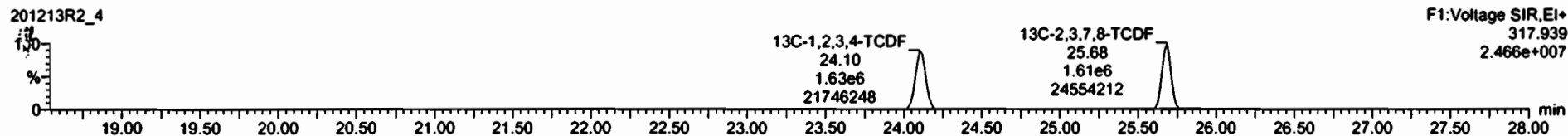
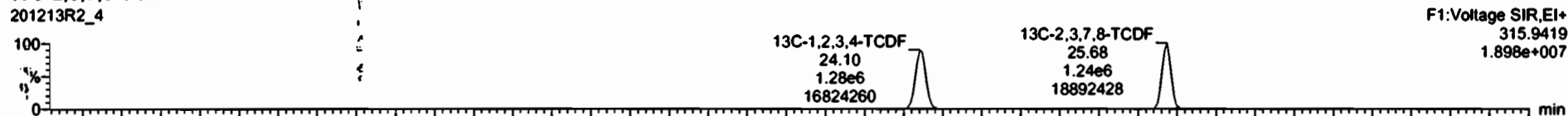
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Name: 201213R2_4, Date: 13-Dec-2020, Time: 12:30:07, ID: B0L0034-BLK1 Method Blank 10, Description: Method Blank

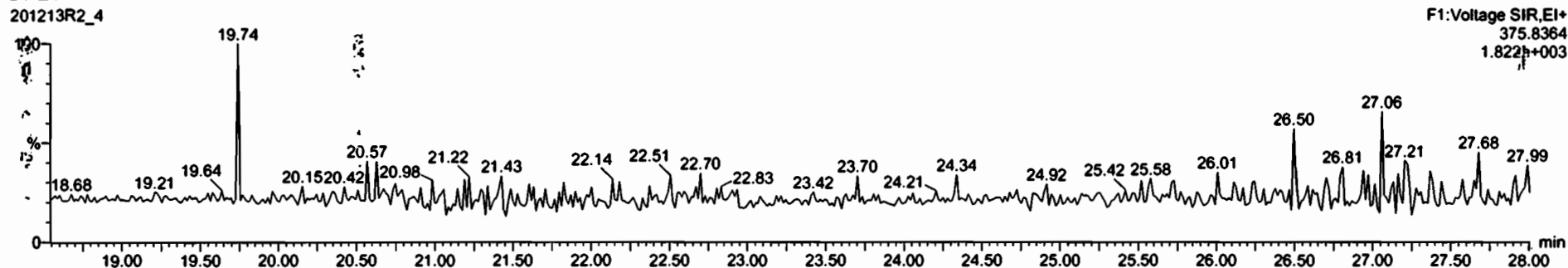
2,3,7,8-TCDF



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



DPE1



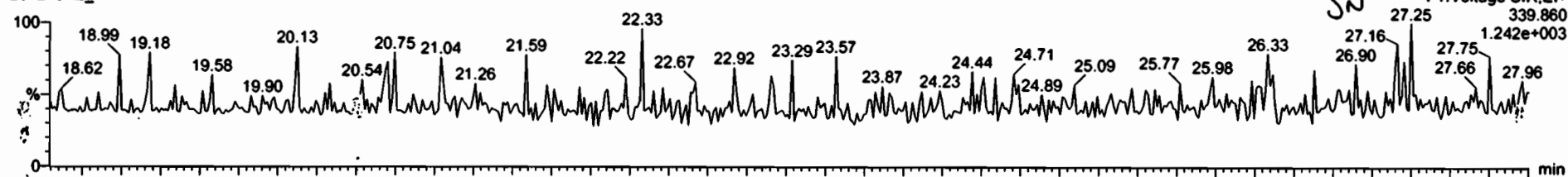
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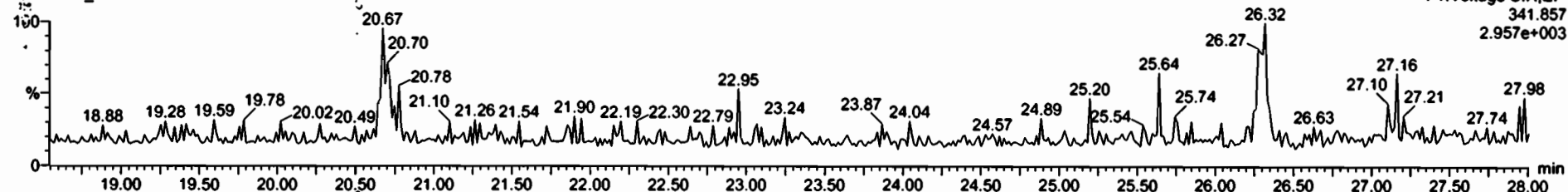
Name: 201213R2_4, Date: 13-Dec-2020, Time: 12:30:07, ID: B0L0034-BLK1 Method Blank 10, Description: Method Blank

1st Func. Penta-Furans

201213R2_4

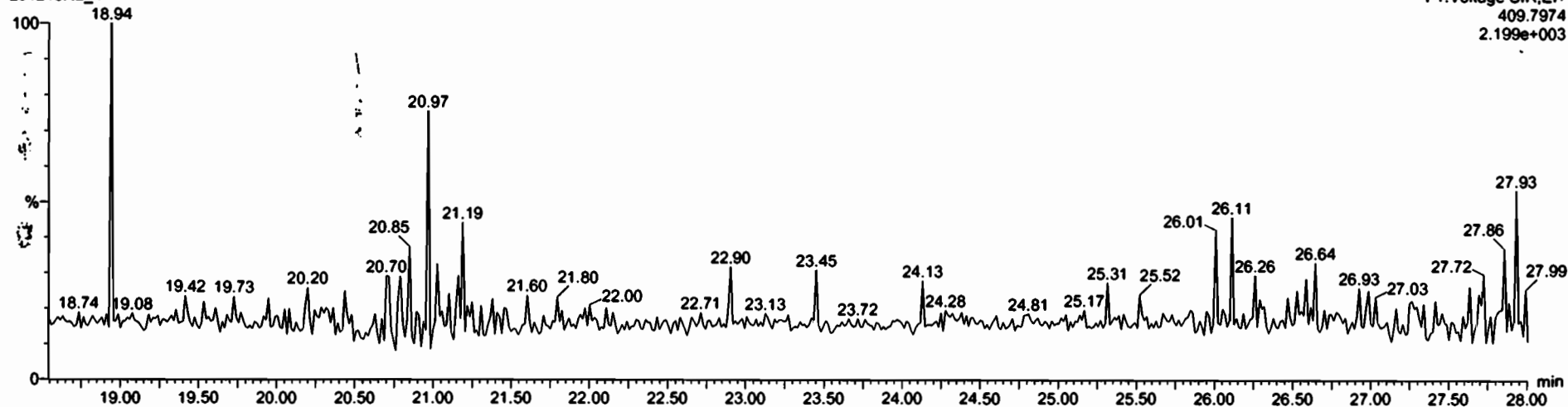


201213R2_4



DPE6

201213R2_4

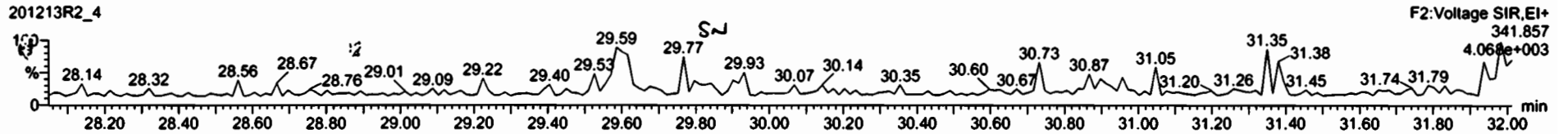
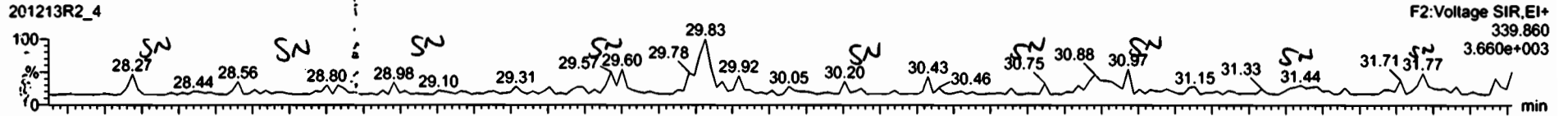


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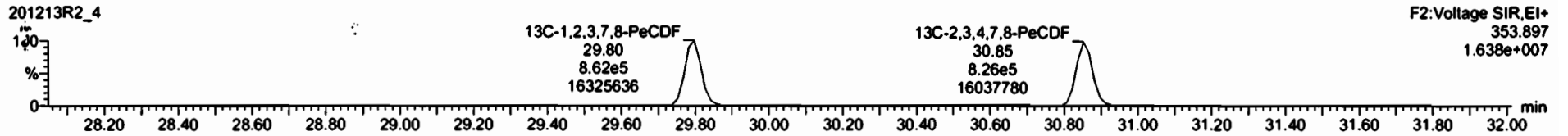
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Name: 201213R2_4, Date: 13-Dec-2020, Time: 12:30:07, ID: B0L0034-BLK1 Method Blank 10, Description: Method Blank

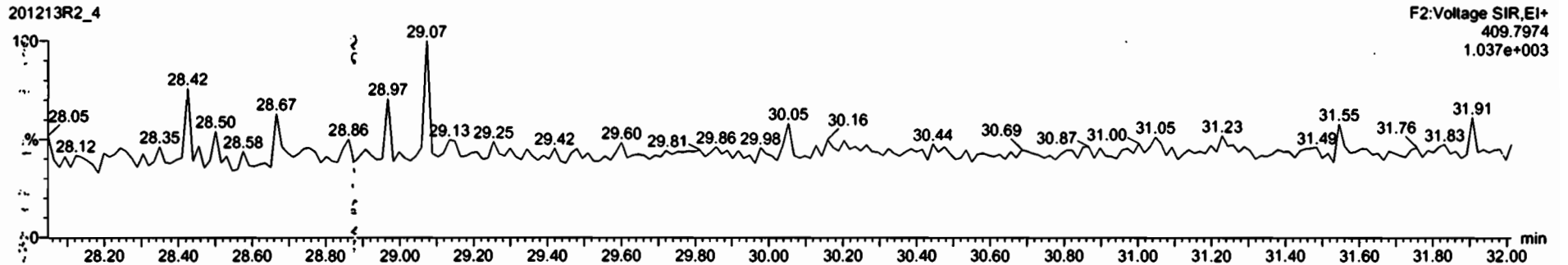
1,2,3,7,8-PeCDF



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



DPE2



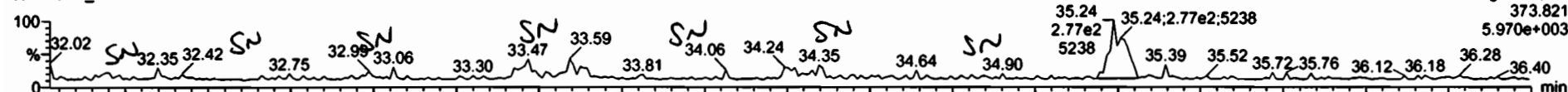
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Printed: Monday, December 14, 2020 07:12:56 Pacific Standard Time

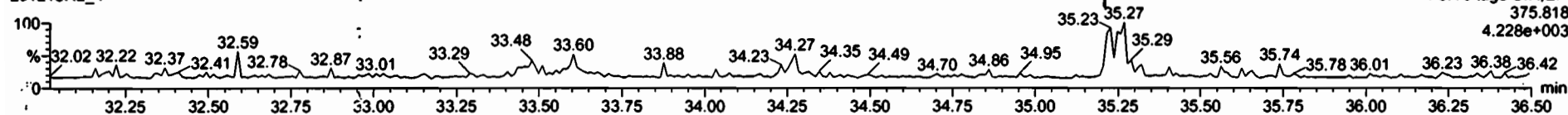
Name: 201213R2_4, Date: 13-Dec-2020, Time: 12:30:07, ID: B0L0034-BLK1 Method Blank 10, Description: Method Blank

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

201213R2_4

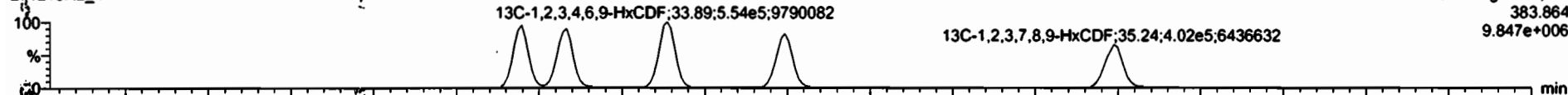


201213R2_4

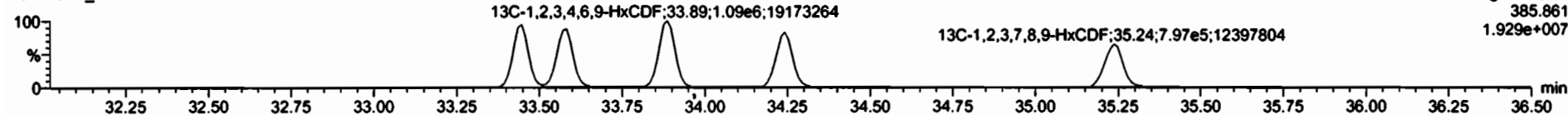


13C-1,2,3,4,7,8-HxCDF

201213R2_4

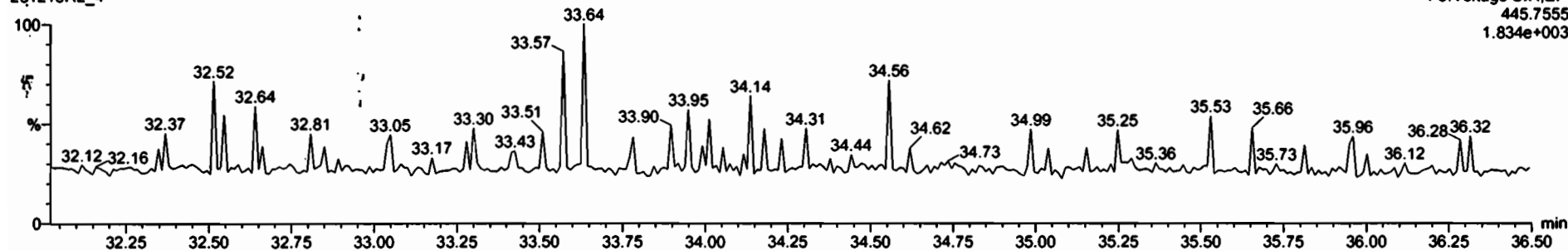


201213R2_4



DPE3

201213R2_4

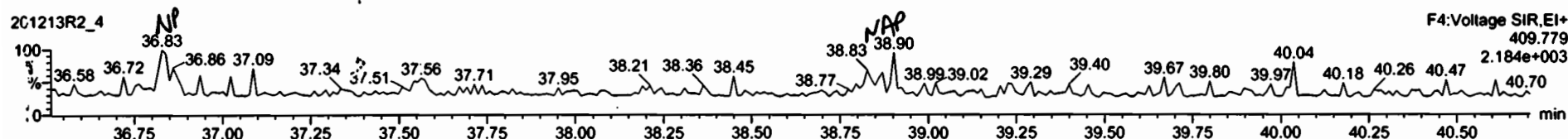
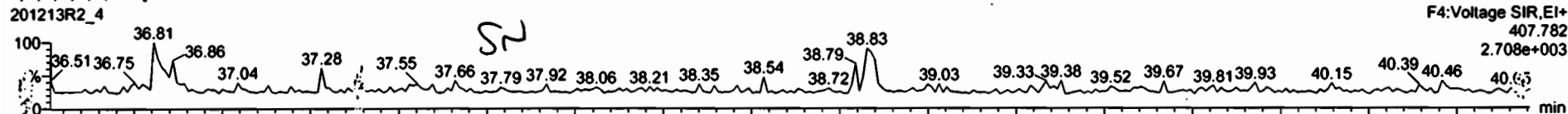


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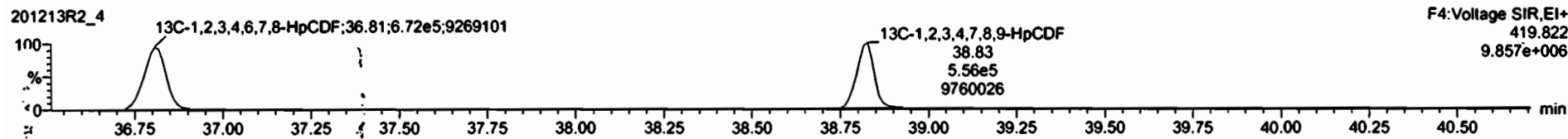
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Name: 201213R2_4, Date: 13-Dec-2020, Time: 12:30:07, ID: B0L0034-BLK1 Method Blank 10, Description: Method Blank

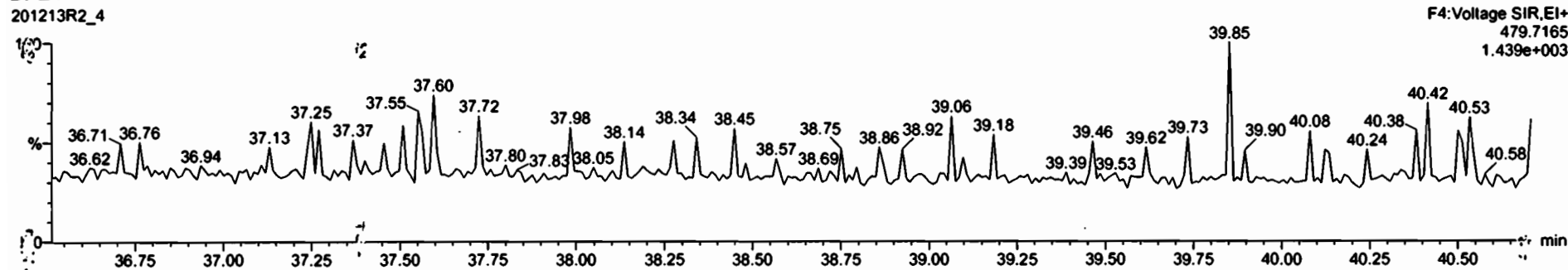
1,2,3,4,6,7,8-HpCDF



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



DPE4

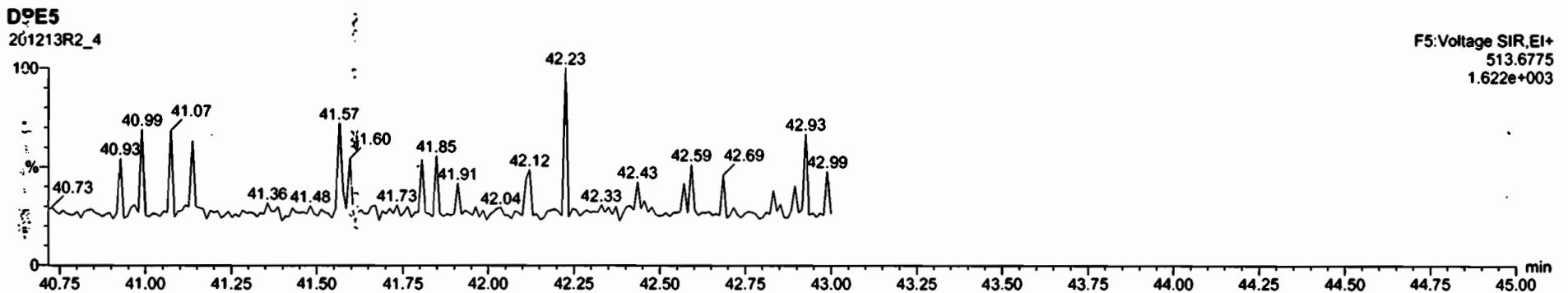
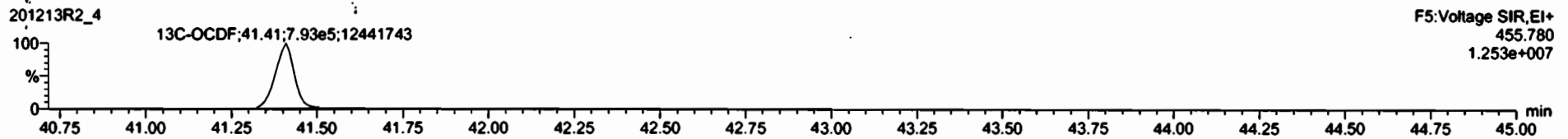
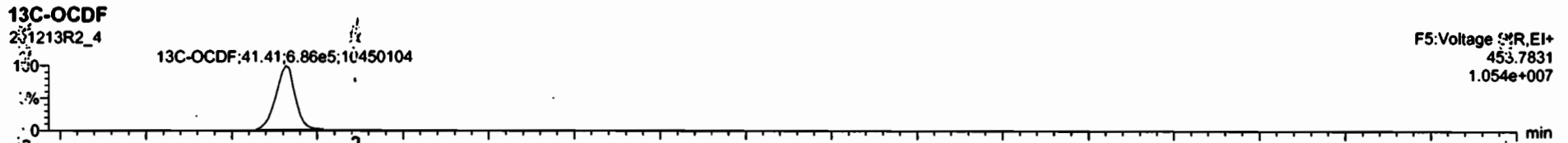
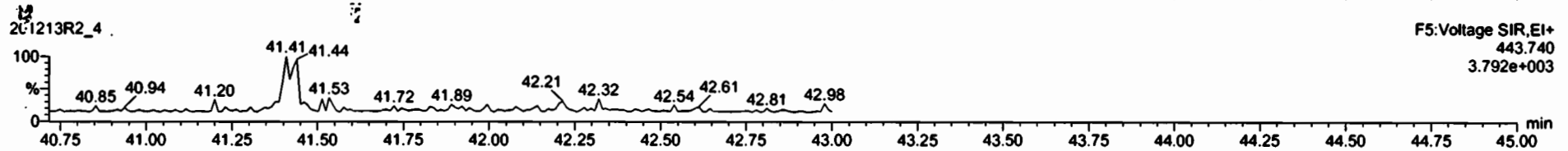
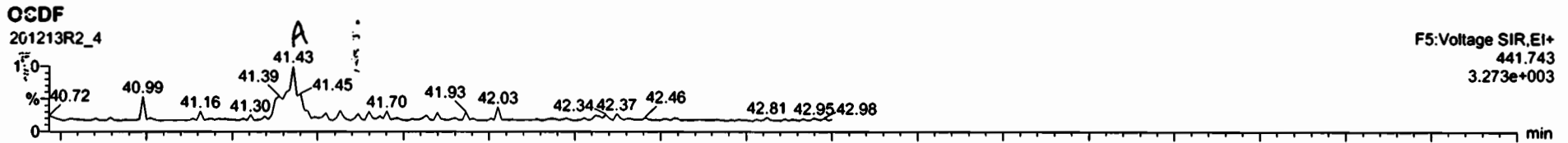


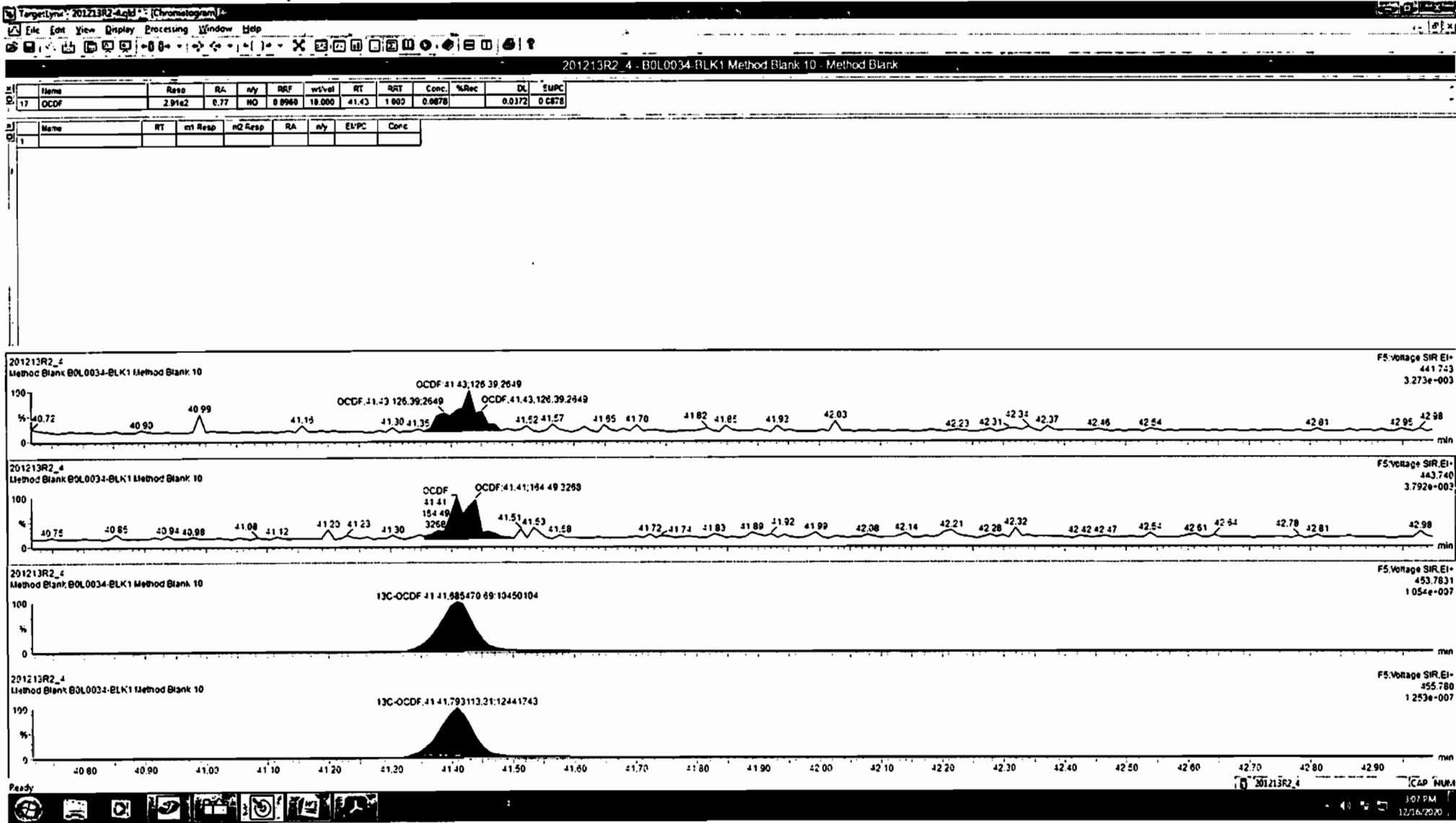
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Last Altered: Monday, December 14, 2020 07:01:44 Pacific Standard Time

Printed: Monday, December 14, 2020 07:12:56 Pacific Standard Time

Name: 201213R2_4, Date: 13-Dec-2020, Time: 12:30:07, ID: B0L0034-BLK1 Method Blank 10, Description: Method Blank

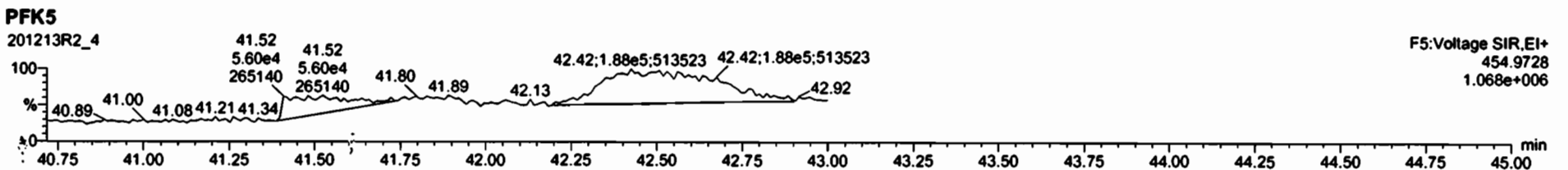
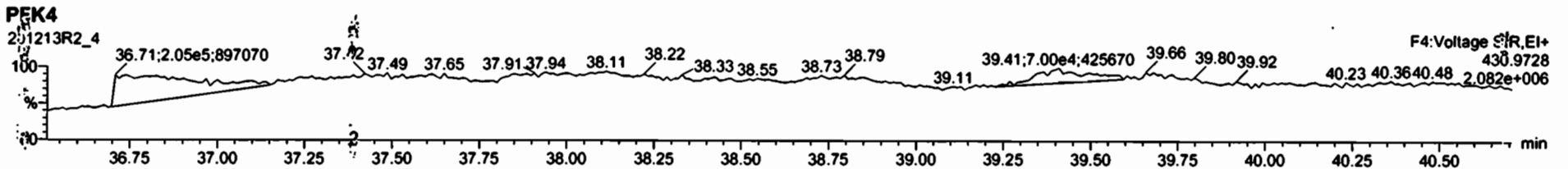
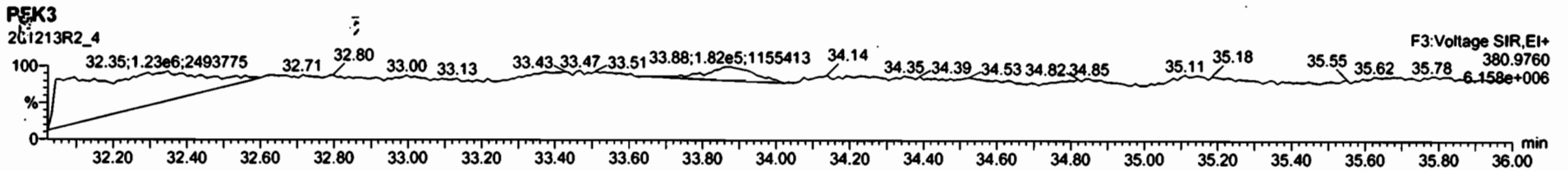
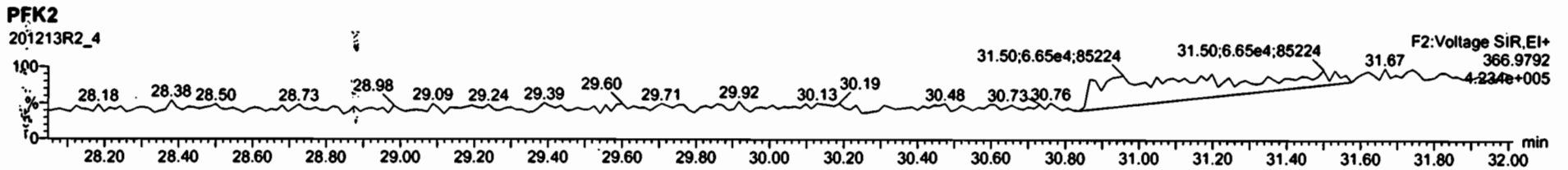
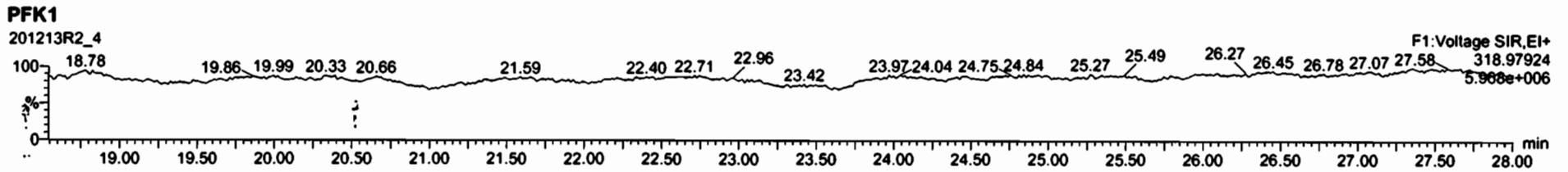




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Last Altered: Monday, December 14, 2020 07:01:44 Pacific Standard Time
Printed: Monday, December 14, 2020 07:12:56 Pacific Standard Time

Name: 201213R2_4, Date: 13-Dec-2020, Time: 12:30:07, ID: B0L0034-BLK1 Method Blank 10, Description: Method Blank



Dataset: U:\VG12.PRO\Results\201213R2\201213R2-2.qld

Last Altered: Monday, December 14, 2020 7:18:08 AM Pacific Standard Time
Printed: Tuesday, December 15, 2020 3:20:04 PM Pacific Standard Time

HN 12/15/2020

Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

C7 12/18/2020

Name: 201213R2_2, Date: 13-Dec-2020, Time: 11:01:37, ID: B0L0034-BS1 OPR 10, Description: OPR

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	1.58e5	0.78	NO	0.980	10.000	26.410	26.39	1.001	1.001	20.373		0.0575	20.4
2	2 1,2,3,7,8-PeCDD	6.59e5	0.63	NO	0.932	10.000	31.079	31.08	1.001	1.001	101.77		0.0698	102
3	3 1,2,3,4,7,8-HxCDD	5.26e5	1.24	NO	1.02	10.000	34.378	34.37	1.001	1.000	100.55		0.136	101
4	4 1,2,3,6,7,8-HxCDD	5.25e5	1.23	NO	0.902	10.000	34.504	34.49	1.001	1.000	102.33		0.142	102
5	5 1,2,3,7,8,9-HxCDD	5.35e5	1.24	NO	0.954	10.000	34.756	34.77	1.000	1.001	100.40		0.146	100
6	6 1,2,3,4,6,7,8-HpCDD	3.78e5	1.02	NO	0.918	10.000	38.223	38.22	1.000	1.000	95.750		0.271	95.8
7	7 OCDD	5.57e5	0.88	NO	0.866	10.000	41.124	41.13	1.000	1.000	203.68		0.339	204
8	8 2,3,7,8-TCDF	1.62e5	0.73	NO	0.848	10.000	25.686	25.71	1.000	1.001	17.882		0.0433	17.9
9	9 1,2,3,7,8-PeCDF	9.02e5	1.54	NO	0.960	10.000	29.800	29.81	1.000	1.000	98.230		0.0858	98.2
10	10 2,3,4,7,8-PeCDF	1.00e6	1.53	NO	1.07	10.000	30.889	30.88	1.001	1.000	99.204		0.0755	99.2
11	11 1,2,3,4,7,8-HxCDF	6.11e5	1.21	NO	0.986	10.000	33.467	33.47	1.000	1.000	94.221		0.159	94.2
12	12 1,2,3,6,7,8-HxCDF	6.43e5	1.20	NO	1.04	10.000	33.603	33.60	1.001	1.001	93.956		0.148	94.0
13	13 2,3,4,6,7,8-HxCDF	6.12e5	1.22	NO	1.02	10.000	34.274	34.26	1.001	1.000	95.066		0.163	95.1
14	14 1,2,3,7,8,9-HxCDF	5.37e5	1.21	NO	0.991	10.000	35.258	35.26	1.000	1.000	93.985		0.208	94.0
15	15 1,2,3,4,6,7,8-HpCDF	4.26e5	0.99	NO	1.05	10.000	36.836	36.83	1.000	1.000	92.976		0.278	93.0
16	16 1,2,3,4,7,8,9-HpCDF	4.08e5	1.01	NO	1.18	10.000	38.839	38.84	1.000	1.000	94.221		0.234	94.2
17	17 OCDF	6.14e5	0.86	NO	0.896	10.000	41.417	41.42	1.000	1.000	191.81		0.302	192
18	18 13C-2,3,7,8-TCDD	1.59e6	0.79	NO	1.06	10.000	26.383	26.38	1.030	1.030	179.56	89.8	0.0855	
19	19 13C-1,2,3,7,8-PeCDD	1.39e6	0.64	NO	0.785	10.000	31.229	31.05	1.219	1.212	211.85	106	0.150	
20	20 13C-1,2,3,4,7,8-HxCDD	1.03e6	1.29	NO	0.621	10.000	34.358	34.36	1.014	1.014	223.11	112	0.453	
21	21 13C-1,2,3,6,7,8-HxCDD	1.14e6	1.30	NO	0.734	10.000	34.480	34.48	1.017	1.017	209.13	105	0.383	
22	22 13C-1,2,3,7,8,9-HxCDD	1.12e6	1.26	NO	0.723	10.000	34.765	34.74	1.026	1.025	208.56	104	0.389	
23	23 13C-1,2,3,4,6,7,8-HpCDD	8.60e5	1.05	NO	0.568	10.000	38.267	38.21	1.129	1.127	204.55	102	0.533	
24	24 13C-OCDD	1.26e6	0.90	NO	0.496	10.000	41.205	41.12	1.216	1.213	343.82	86.0	0.517	
25	25 13C-2,3,7,8-TCDF	2.14e6	0.77	NO	0.919	10.000	25.682	25.68	1.003	1.003	175.17	87.6	0.109	
26	26 13C-1,2,3,7,8-PeCDF	1.91e6	1.60	NO	0.715	10.000	29.938	29.80	1.169	1.163	201.25	101	0.285	
27	27 13C-2,3,4,7,8-PeCDF	1.89e6	1.60	NO	0.689	10.000	31.026	30.87	1.212	1.205	206.86	103	0.296	
28	28 13C-1,2,3,4,7,8-HxCDF	1.32e6	0.51	NO	0.873	10.000	33.463	33.46	0.987	0.987	203.37	102	0.367	
29	29 13C-1,2,3,6,7,8-HxCDF	1.32e6	0.51	NO	0.933	10.000	33.592	33.58	0.991	0.991	190.42	95.2	0.344	
30	30 13C-2,3,4,6,7,8-HxCDF	1.26e6	0.51	NO	0.843	10.000	34.260	34.25	1.011	1.010	201.92	101	0.380	
31	31 13C-1,2,3,7,8,9-HxCDF	1.15e6	0.51	NO	0.780	10.000	35.260	35.25	1.040	1.040	199.43	99.7	0.411	

Dataset: U:\VG12.PRO\Results\201213R2\201213R2-2.qld

Last Altered: Monday, December 14, 2020 7:18:08 AM Pacific Standard Time

Printed: Tuesday, December 15, 2020 3:20:04 PM Pacific Standard Time

Name: 201213R2_2, Date: 13-Dec-2020, Time: 11:01:37, ID: B0L0034-BS1 OPR 10, Description: OPR

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.RRT	RRT-	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	8.73e5	0.43	NO	0.726	10.000	36.836	36.82	1.087	1.086	162.18	81.1	0.393	
33	13C-1,2,3,4,7,8,9-HpCDF	7.36e5	0.43	NO	0.491	10.000	38.846	38.83	1.146	1.145	202.22	101	0.581	
34	13C-OCDF	1.43e6	0.88	NO	0.565	10.000	41.422	41.41	1.222	1.222	341.33	85.3	0.382	
35	37Cl-2,3,7,8-TCDD	7.03e5			1.22	10.000	26.378	26.39	1.030	1.031	69.094	86.4	0.0229	
36	13C-1,2,3,4-TCDD	1.67e6	0.80	NO	1.00	10.000	25.640	25.61	1.000	1.000	200.00	100	0.0902	
37	13C-1,2,3,4-TCDF	2.66e6	0.79	NO	1.00	10.000	24.130	24.12	1.000	1.000	200.00	100	0.100	
38	13C-1,2,3,4,6,9-HxCDF	1.48e6	0.51	NO	1.00	10.000	33.920	33.90	1.000	1.000	200.00	100	0.321	

Dataset: Untitled

Last Altered: Monday, December 14, 2020 07:01:44 Pacific Standard Time
Printed: Monday, December 14, 2020 07:12:56 Pacific Standard Time

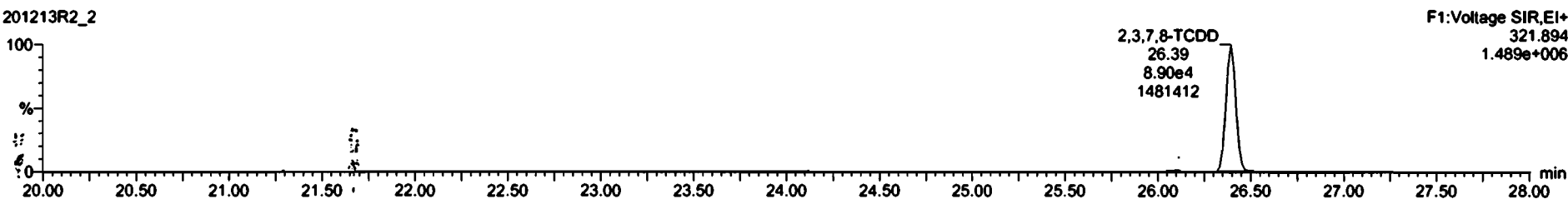
Method: U:\VG12.PRO\MethDB\1613\rt-12-11-20.mdb 11 Dec 2020 08:35:32
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613\vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201213R2_2, Date: 13-Dec-2020, Time: 11:01:37, ID: B0L0034-BS1 OPR 10, Description: OPR

2,3,7,8-TCDD
201213R2_2



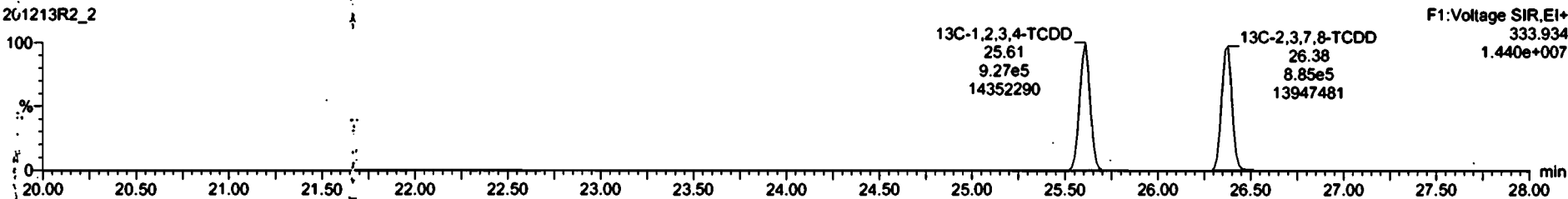
201213R2_2



13C-2,3,7,8-TCDD
201213R2_2



201213R2_2



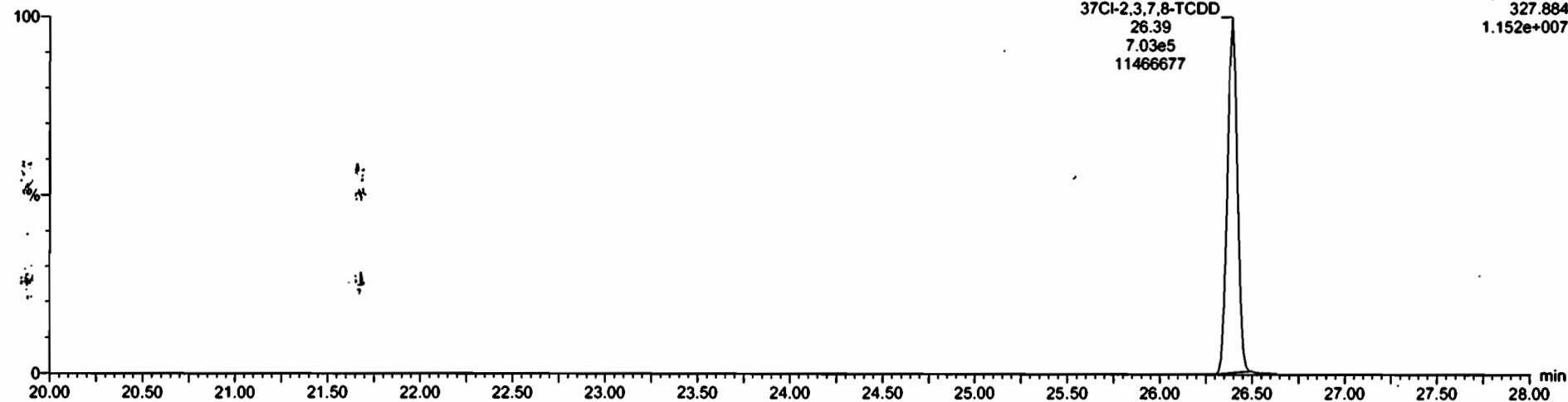
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Last Altered: Monday, December 14, 2020 07:01:44 Pacific Standard Time
Printed: Monday, December 14, 2020 07:12:56 Pacific Standard Time

Name: 201213R2_2, Date: 13-Dec-2020, Time: 11:01:37, ID: B0L0034-BS1 OPR 10, Description: OPR

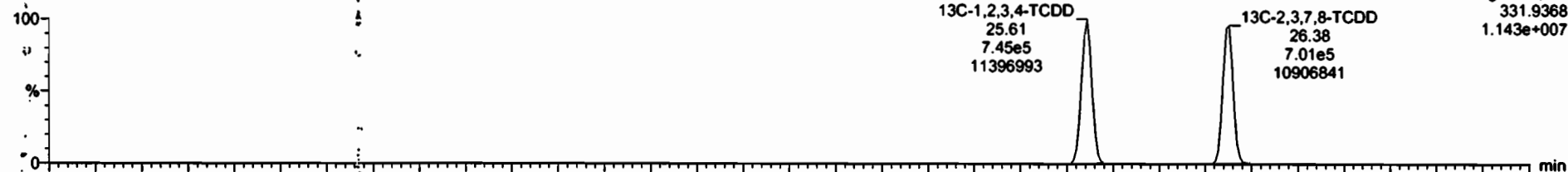
37Cl-2,3,7,8-TCDD

201213R2_2

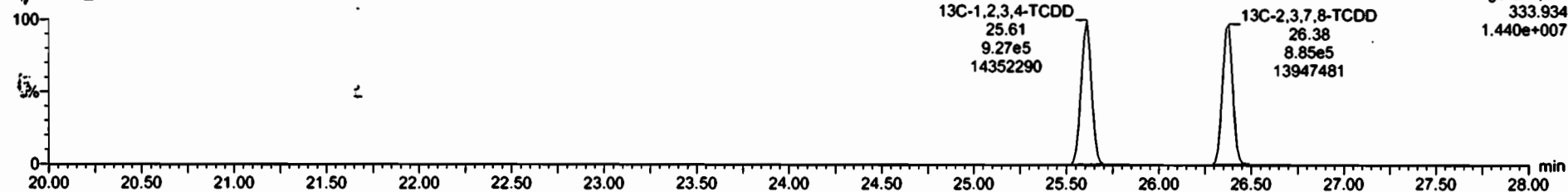


13C-1,2,3,4-TCDD

201213R2_2



201213R2_2



Dataset: Untitled

Last Altered: Monday, December 14, 2020 07:01:44 Pacific Standard Time
Printed: Monday, December 14, 2020 07:12:56 Pacific Standard Time

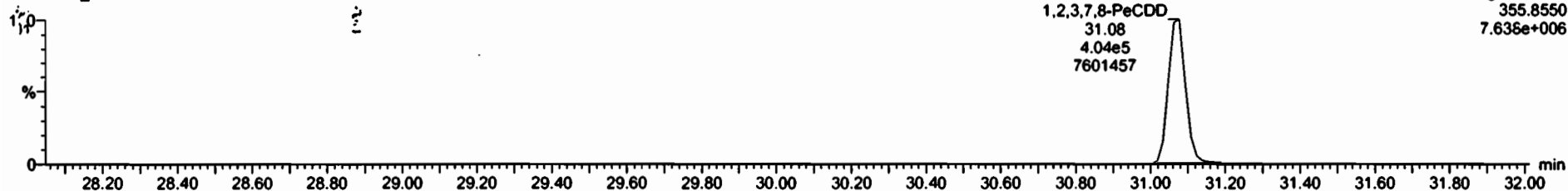
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1,2,3,7,8-PeCDD

201213R2_2



201213R2_2

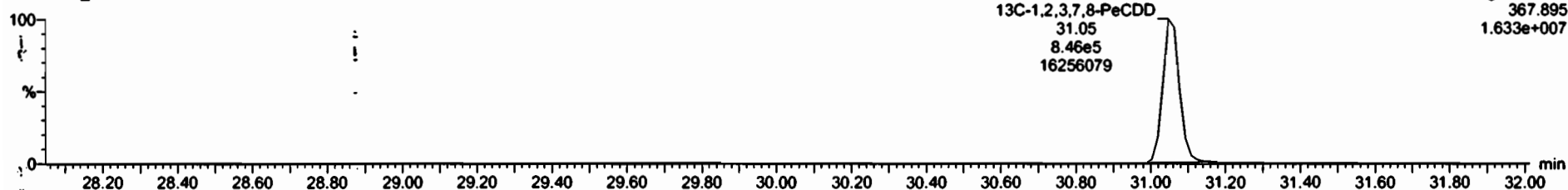


13C-1,2,3,7,8-PeCDD

201213R2_2



201213R2_2



Dataset: Untitled

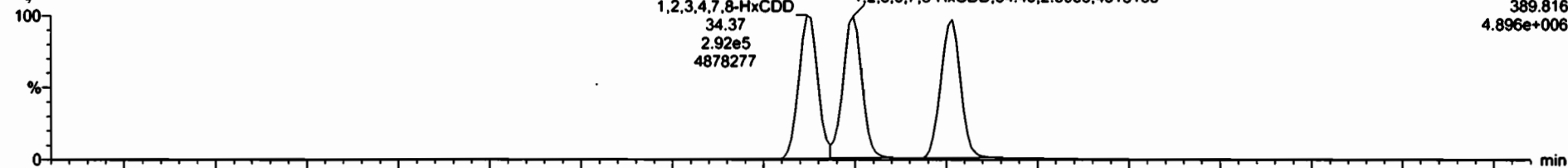
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Printed: Monday, December 14, 2020 07:12:56 Pacific Standard Time

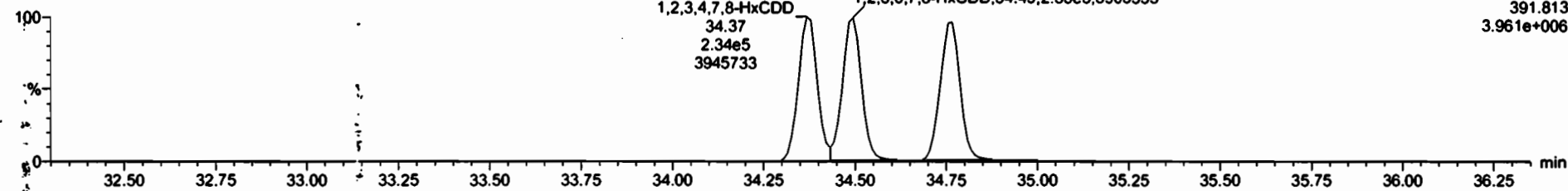
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1,2,3,4,7,8-HxCDD

201213R2_2

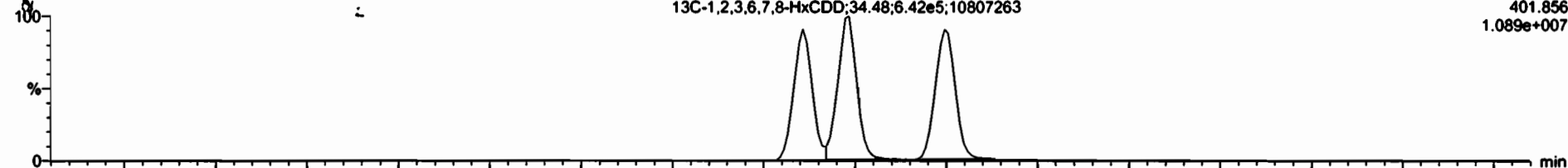


201213R2_2

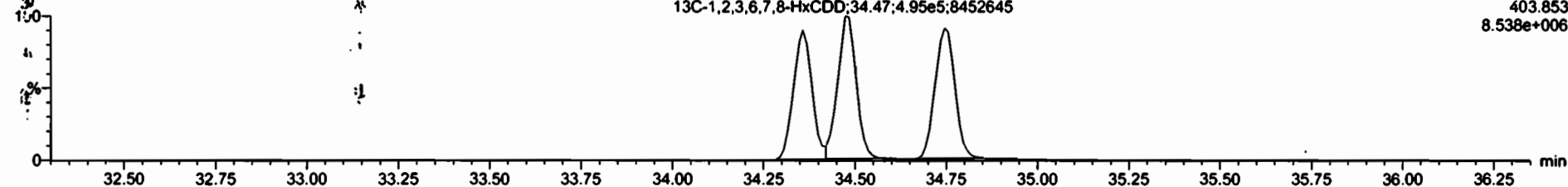


13C-1,2,3,4,7,8-HxCDD

201213R2_2



201213R2_2



Dataset: Untitled

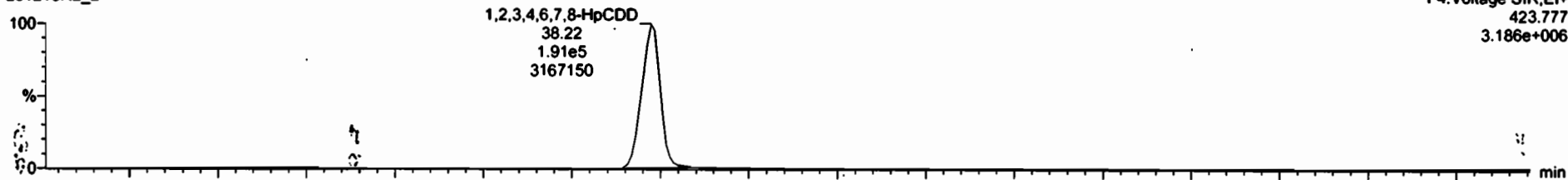
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Printed: Monday, December 14, 2020 07:12:56 Pacific Standard Time

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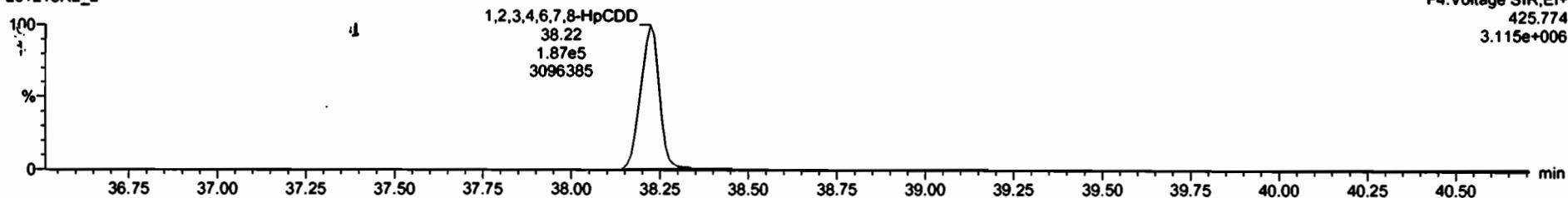
1,2,3,4,6,7,8-HpCDD

201213R2_2



F4:Voltage SIR,EI+
423.777
3.186e+006

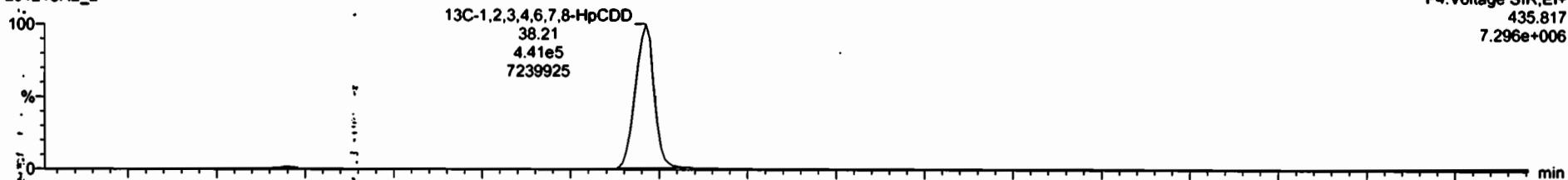
201213R2_2



F4:Voltage SIR,EI+
425.774
3.115e+006

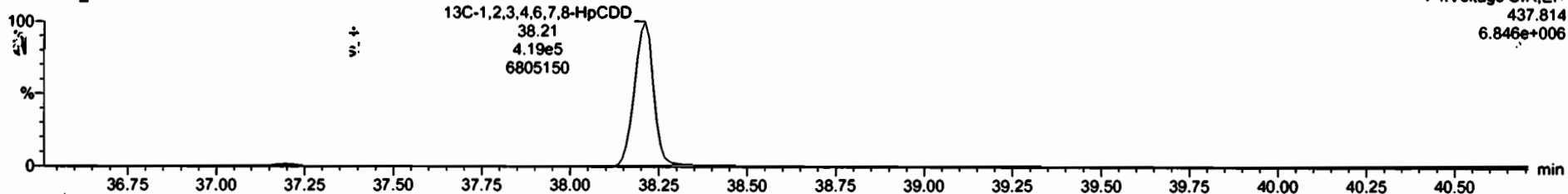
13C-1,2,3,4,6,7,8-HpCDD

201213R2_2



F4:Voltage SIR,EI+
435.817
7.296e+006

201213R2_2



F4:Voltage SIR,EI+
437.814
6.846e+006

Dataset: Untitled

Last Altered: Monday, December 14, 2020 07:01:44 Pacific Standard Time
Printed: Monday, December 14, 2020 07:12:56 Pacific Standard Time

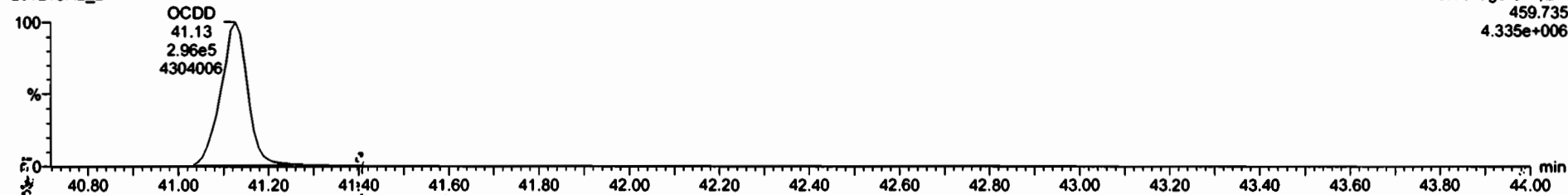
Name: 201213R2_2, Date: 13-Dec-2020, Time: 11:01:37, ID: B0L0034-BS1 OPR 10, Description: OPR

OCDD

201213R2_2



201213R2_2

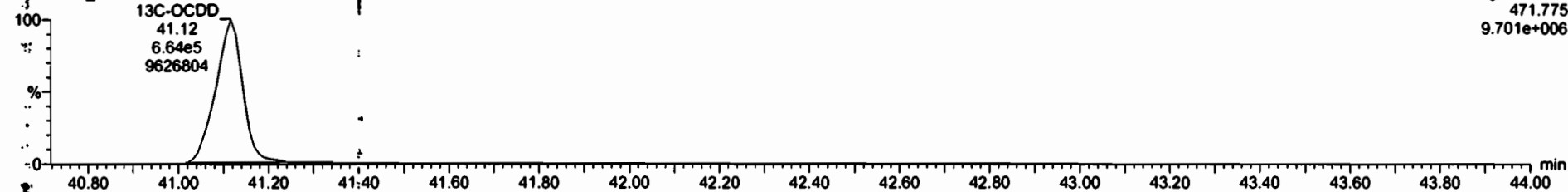


13C-OCDD

201213R2_2



201213R2_2



Dataset: Untitled

Last Altered: Monday, December 14, 2020 07:01:44 Pacific Standard Time

Printed: Monday, December 14, 2020 07:12:56 Pacific Standard Time

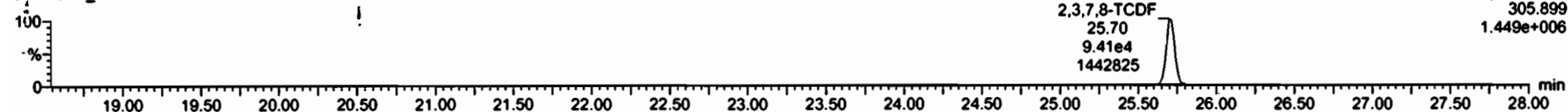
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2,3,7,8-TCDF

201213R2_2

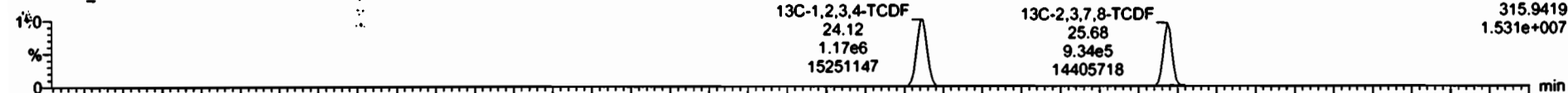


201213R2_2

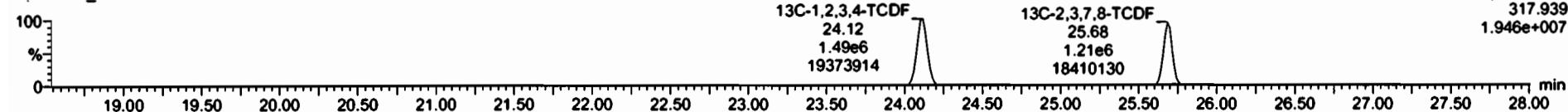


13C-2,3,7,8-TCDF

201213R2_2

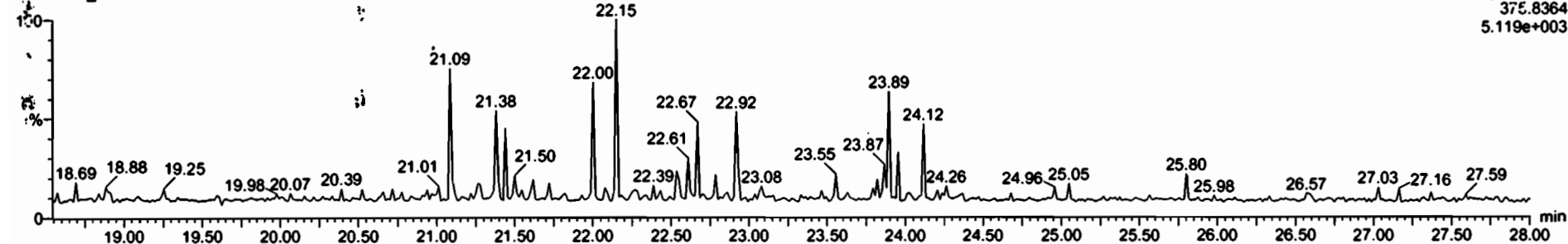


201213R2_2



DPE1

201213R2_2



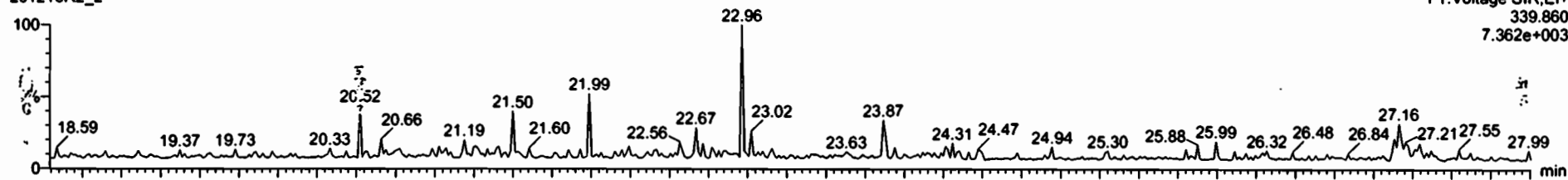
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Last Altered: Monday, December 14, 2020 07:01:44 Pacific Standard Time
Printed: Monday, December 14, 2020 07:12:56 Pacific Standard Time

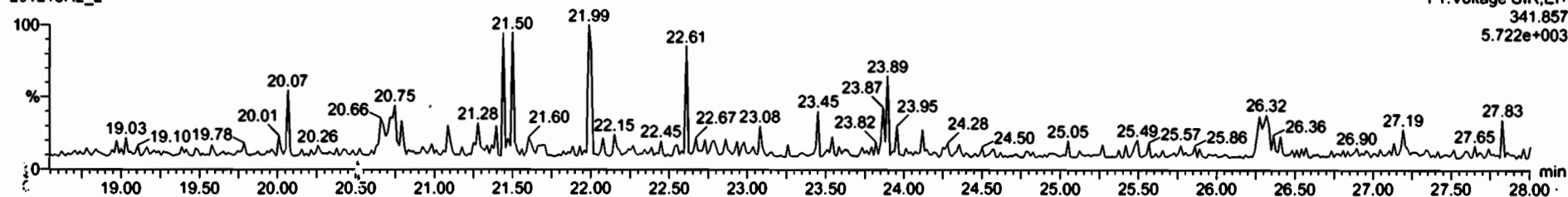
Name: 201213R2_2, Date: 13-Dec-2020, Time: 11:01:37, ID: B0L0034-BS1 OPR 10, Description: OPR

1st Func. Penta-Furans

201213R2_2

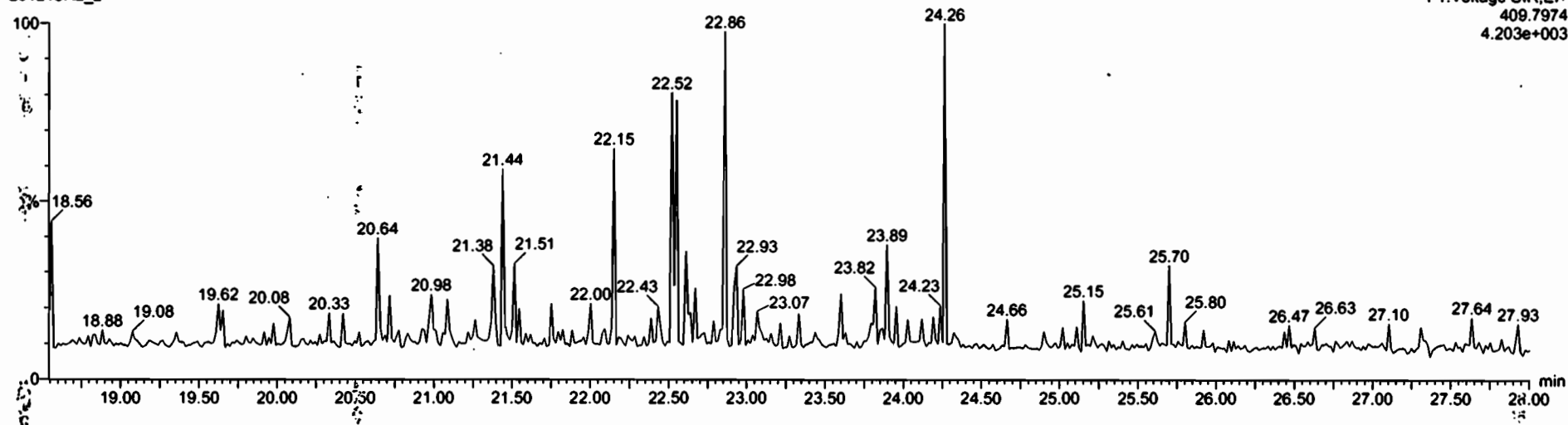


201213R2_2



DPE6

201213R2_2



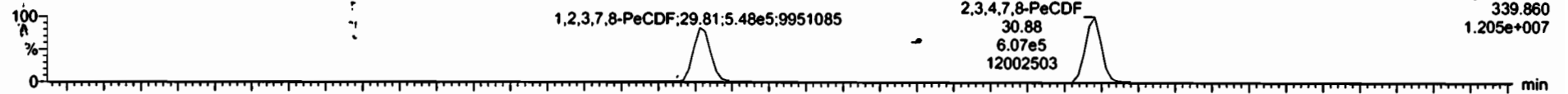
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Last Altered: Monday, December 14, 2020 07:01:44 Pacific Standard Time
Printed: Monday, December 14, 2020 07:12:56 Pacific Standard Time

Name: 201213R2_2, Date: 13-Dec-2020, Time: 11:01:37, ID: B0L0034-BS1 OPR 10, Description: OPR

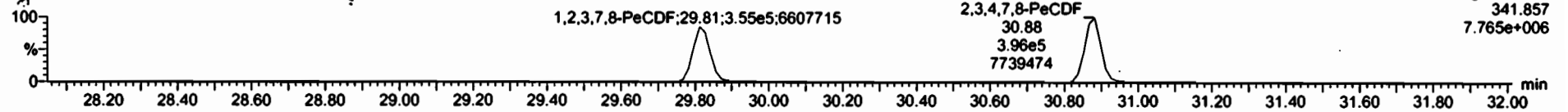
1,2,3,7,8-PeCDF

201213R2_2



F2:Voltage SIR,EI+
339.860
1.205e+007

201213R2_2



F2:Voltage SIR,EI+
341.857
7.765e+006

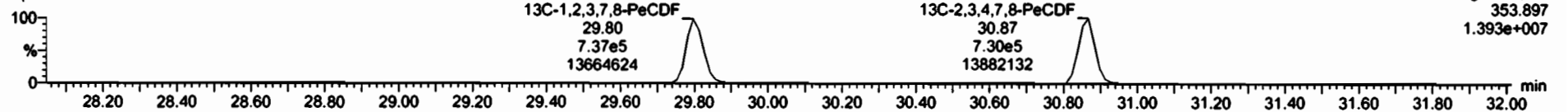
13C-1,2,3,7,8-PeCDF

201213R2_2



F2:Voltage SIR,EI+
351.900
2.239e+007

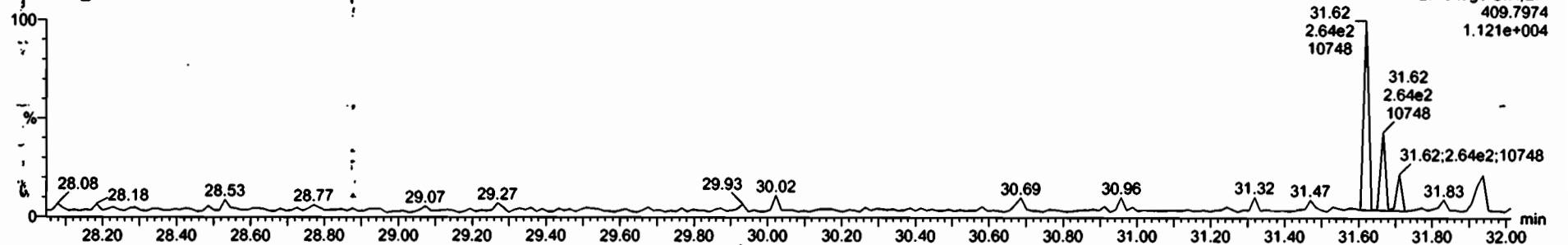
201213R2_2



F2:Voltage SIR,EI+
353.897
1.393e+007

DPE2

201213R2_2



F2:Voltage SIR,EI+
409.7974
1.121e+004

Dataset: Untitled

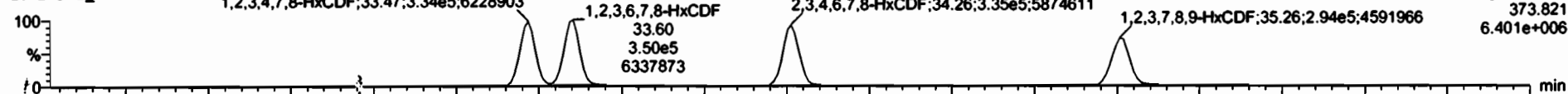
Last Altered: Monday, December 14, 2020 07:01:44 Pacific Standard Time

Printed: Monday, December 14, 2020 07:12:56 Pacific Standard Time

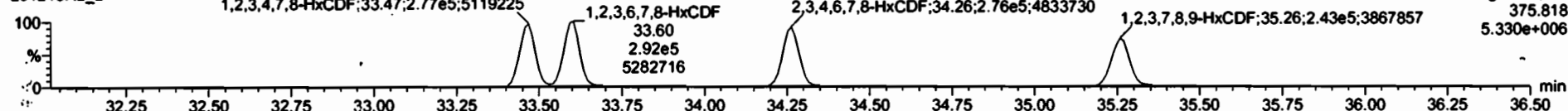
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1,2,3,4,7,8-HxCDF

201213R2_2

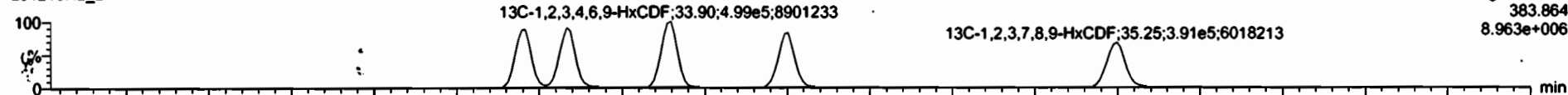


201213R2_2

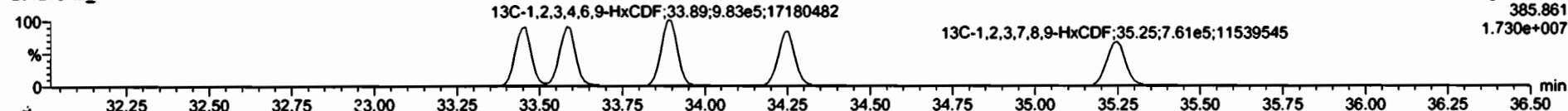


13C-1,2,3,4,7,8-HxCDF

201213R2_2

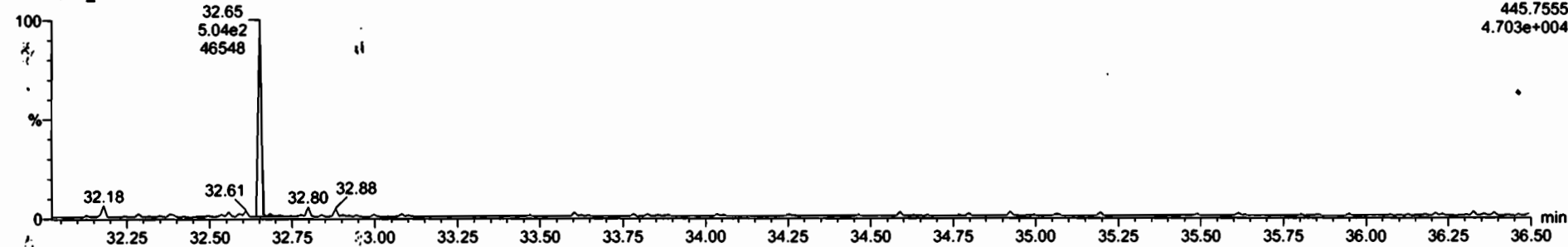


201213R2_2



DPE3

201213R2_2



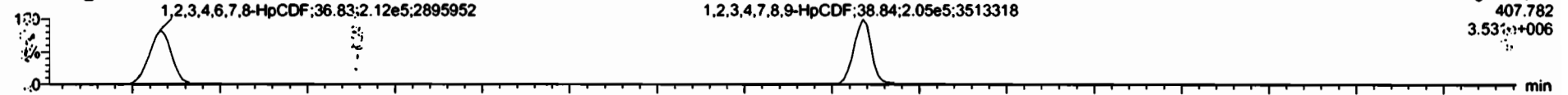
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Last Altered: Monday, December 14, 2020 07:01:44 Pacific Standard Time
Printed: Monday, December 14, 2020 07:12:56 Pacific Standard Time

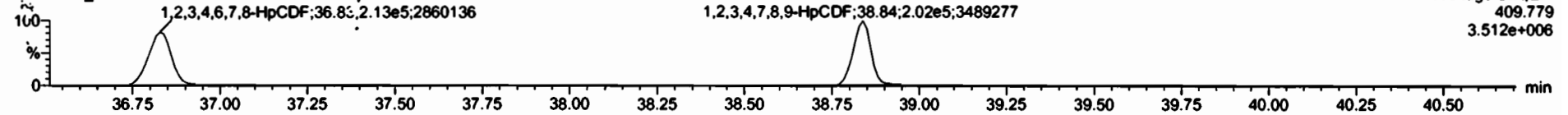
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1,2,3,4,6,7,8-HpCDF

201213R2_2

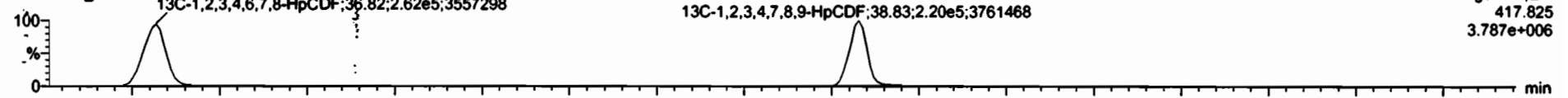


201213R2_2

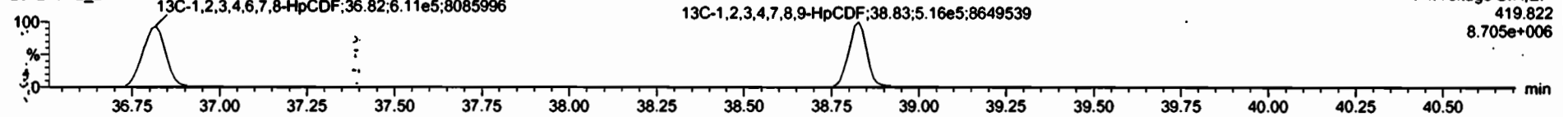


13C-1,2,3,4,6,7,8-HpCDF

201213R2_2

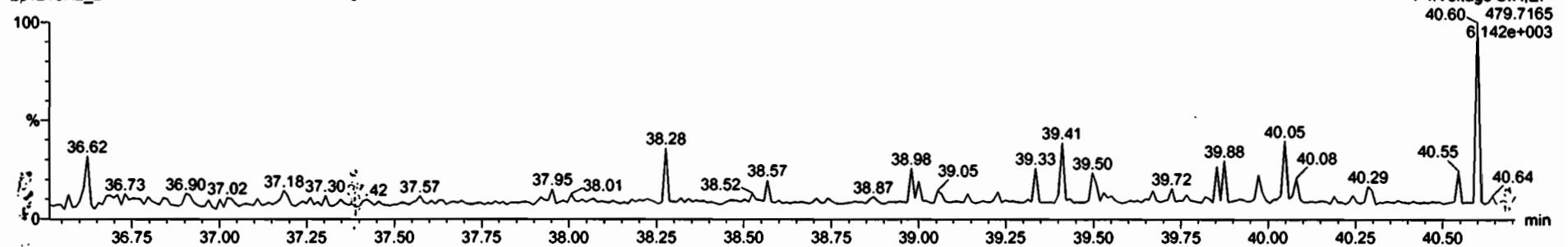


201213R2_2



DPE4

201213R2_2

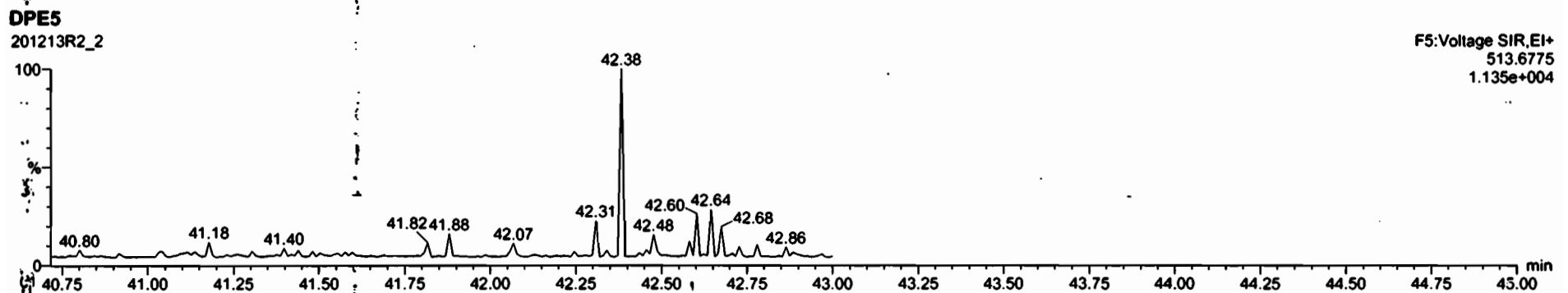
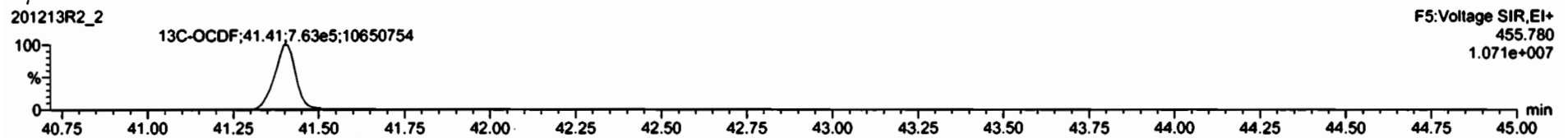
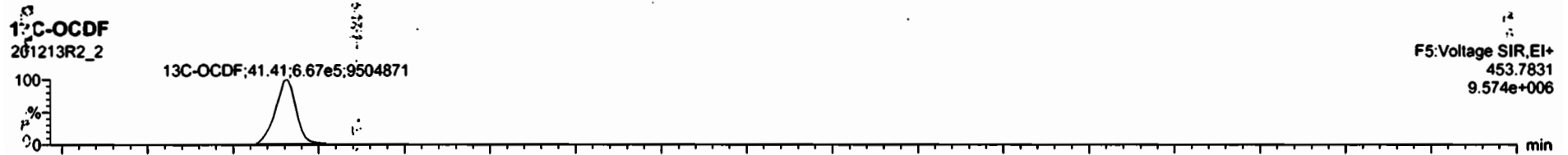
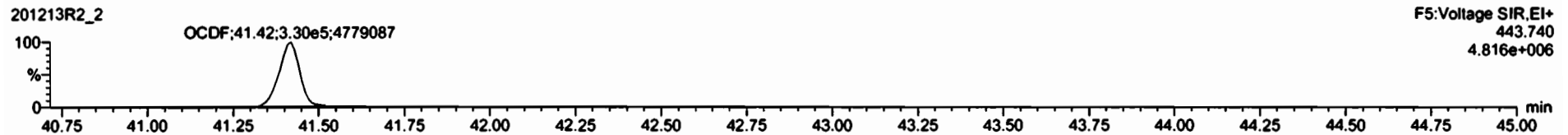
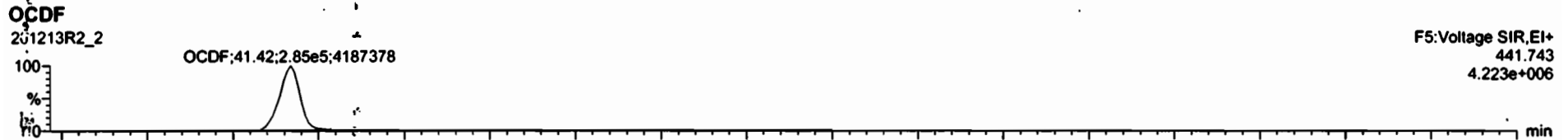


Dataset: Untitled

Last Altered: Monday, December 14, 2020 07:01:44 Pacific Standard Time

Printed: Monday, December 14, 2020 07:12:56 Pacific Standard Time

Name: 201213R2_2, Date: 13-Dec-2020, Time: 11:01:37, ID: B0L0034-BS1 OPR 10, Description: OPR



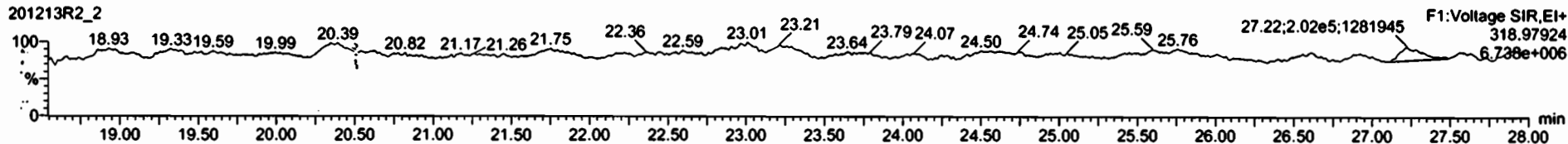
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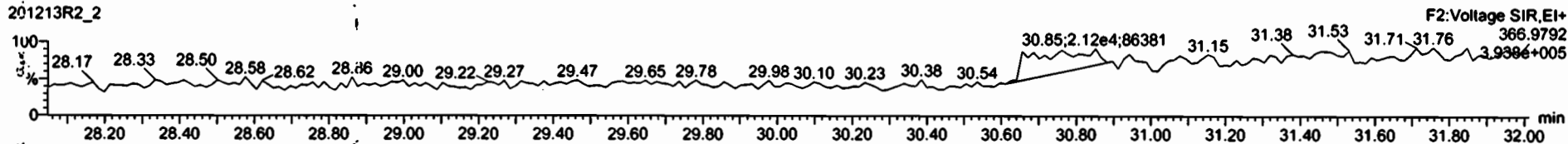
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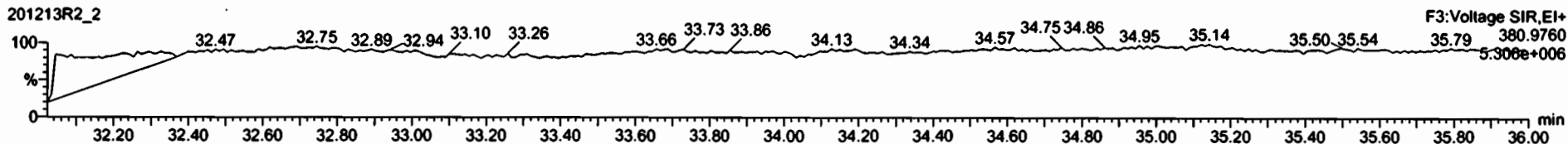
PFK1



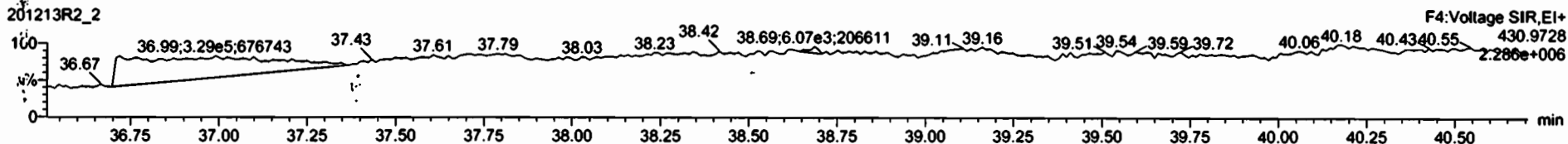
PFK2



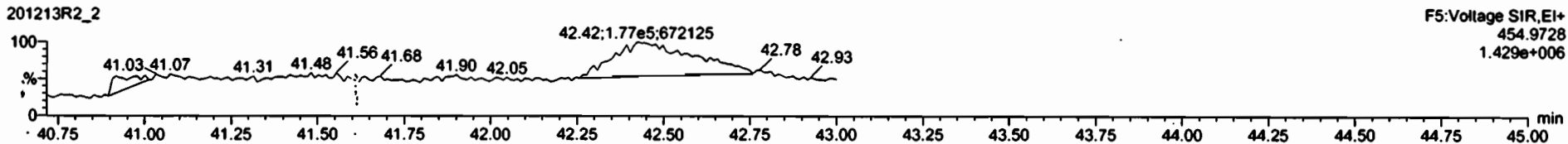
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\201215R2\201215R2_5.qld

Last Altered: Thursday, December 17, 2020 9:12:58 AM Pacific Standard Time
Printed: Thursday, December 17, 2020 9:13:30 AM Pacific Standard Time

GRB 12/17/2020

C1 12/18/2020

Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04.Dec 2020 11:36:07

Name: 201215R2_5, Date: 15-Dec-2020, Time: 20:02:21, ID: 2002535-01 USMPDI-009SC-A-03-04-201112 15.1, Description: USMPDI-009SC-A-03-04-201112

#	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	0.980	10.134	26.366		1.001				0.188	
2	2 1,2,3,7,8-PeCDD			NO	0.932	10.134	31.064		1.001				0.270	
3	3 1,2,3,4,7,8-HxCDD			NO	1.02	10.134	34.347		1.001				0.518	
4	4 1,2,3,6,7,8-HxCDD	1.57e3	1.28	NO	0.902	10.134	34.463	34.45	1.001	1.000	2.3832		0.531	2.38
5	5 1,2,3,7,8,9-HxCDD			NO	0.954	10.134	34.724		1.000				0.553	
6	6 1,2,3,4,6,7,8-HpCDD	9.36e4	1.02	NO	0.918	10.134	38.200	38.20	1.000	1.000	199.53		1.95	200
7	7 OCDD	3.97e5	0.87	NO	0.866	10.134	41.103	41.10	1.000	1.000	1397.6		2.56	1400
8	8 2,3,7,8-TCDF	1.17e3	0.72	NO	0.848	10.134	25.642	25.67	1.000	1.001	0.96864		0.168	0.969
9	9 1,2,3,7,8-PeCDF	1.85e3	1.36	NO	0.960	10.134	29.770	29.78	1.000	1.001	1.4964		0.185	1.50
10	10 2,3,4,7,8-PeCDF	2.15e3	1.54	NO	1.07	10.134	30.844	30.85	1.001	1.001	1.7760		0.196	1.78
11	11 1,2,3,4,7,8-HxCDF	1.94e3	1.20	NO	0.986	10.134	33.426	33.45	1.000	1.001	2.4380		0.195	2.44
12	12 1,2,3,6,7,8-HxCDF	6.41e2	1.17	NO	1.04	10.134	33.571	33.58	1.001	1.001	0.77592		0.196	0.776
13	13 2,3,4,6,7,8-HxCDF	5.64e2	1.08	NO	1.02	10.134	34.232	34.22	1.001	1.000	0.76226		0.235	0.762
14	14 1,2,3,7,8,9-HxCDF			NO	0.991	10.134	35.217		1.000				0.279	
15	15 1,2,3,4,6,7,8-HpCDF	4.06e3	1.02	NO	1.05	10.134	36.792	36.80	1.000	1.001	8.3452		0.516	8.35
16	16 1,2,3,4,7,8,9-HpCDF	3.94e2	1.04	NO	1.18	10.134	38.807	38.82	1.000	1.001	0.84938		0.409	0.849
17	17 OCDF	8.24e3	0.80	NO	0.896	10.134	41.385	41.39	1.000	1.000	26.735		0.610	26.7
18	18 13C-2,3,7,8-TCDD	2.26e5	0.78	NO	1.06	10.134	26.337	26.33	1.030	1.030	31.823	16.1	0.0805	
19	19 13C-1,2,3,7,8-PeCDD	1.85e5	0.64	NO	0.785	10.134	31.174	31.03	1.219	1.214	35.144	17.8	0.0901	
20	20 13C-1,2,3,4,7,8-HxCDD	1.30e5	1.32	NO	0.621	10.134	34.327	34.33	1.014	1.014	36.439	18.5	0.147	
21	21 13C-1,2,3,6,7,8-HxCDD	1.44e5	1.26	NO	0.734	10.134	34.448	34.44	1.017	1.017	33.983	17.2	0.124	
22	22 13C-1,2,3,7,8,9-HxCDD	1.35e5	1.23	NO	0.723	10.134	34.733	34.71	1.026	1.025	32.503	16.5	0.126	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.01e5	1.00	NO	0.568	10.134	38.231	38.19	1.129	1.128	30.816	15.6	0.275	
24	24 13C-OCDD	1.29e5	0.87	NO	0.496	10.134	41.168	41.10	1.216	1.213	45.282	11.5	0.239	
25	25 13C-2,3,7,8-TCDF	2.80e5	0.77	NO	0.919	10.134	25.637	25.64	1.003	1.003	32.504	16.5	0.116	
26	26 13C-1,2,3,7,8-PeCDF	2.55e5	1.55	NO	0.715	10.134	29.885	29.77	1.169	1.164	37.940	19.2	0.129	
27	27 13C-2,3,4,7,8-PeCDF	2.24e5	1.56	NO	0.689	10.134	30.972	30.82	1.212	1.206	34.676	17.6	0.134	
28	28 13C-1,2,3,4,7,8-HxCDF	1.59e5	0.48	NO	0.873	10.134	33.433	33.42	0.987	0.987	31.602	16.0	0.182	
29	29 13C-1,2,3,6,7,8-HxCDF	1.57e5	0.49	NO	0.933	10.134	33.561	33.55	0.991	0.991	29.142	14.8	0.170	
30	30 13C-2,3,4,6,7,8-HxCDF	1.43e5	0.49	NO	0.843	10.134	34.228	34.21	1.011	1.010	29.439	14.9	0.189	
31	31 13C-1,2,3,7,8,9-HxCDF	1.30e5	0.50	NO	0.780	10.134	35.227	35.21	1.040	1.040	28.804	14.6	0.204	

Dataset: U:\VG12.PRO\Results\201215R2\201215R2_5.qld

Last Altered: Thursday, December 17, 2020 9:12:58 AM Pacific Standard Time

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Name: 201215R2_5, Date: 15-Dec-2020, Time: 20:02:21, ID: 2002535-01 USMPDI-009SC-A-03-04-201112 15.1, Description: USMPDI-009SC-A-03-04-201112

#	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	9.14e4	0.41	NO	0.726	10.134	36.802	36.77	1.087	1.086	21.827	11.1	0.194	
33	33 13C-1,2,3,4,7,8,9-HpCDF	7.78e4	0.40	NO	0.491	10.134	38.810	38.79	1.146	1.146	27.462	13.9	0.288	
34	34 13C-OCDF	1.36e5	0.89	NO	0.565	10.134	41.384	41.38	1.222	1.222	41.624	10.5	0.233	
35	35 37Cl-2,3,7,8-TCDD	5.94e5			1.22	10.134	26.332	26.35	1.030	1.031	72.648	92.0	0.0223	
36	36 13C-1,2,3,4-TCDD	1.33e6	0.79	NO	1.00	10.134	25.640	25.57	1.000	1.000	197.36	100	0.0850	
37	37 13C-1,2,3,4-TCDF	1.85e6	0.78	NO	1.00	10.134	24.130	24.06	1.000	1.000	197.36	100	0.106	
38	38 13C-1,2,3,4,6,9-HxCDF	1.14e6	0.51	NO	1.00	10.134	33.920	33.87	1.000	1.000	197.36	100	0.159	
39	39 Total Tetra-Dioxins				0.980	10.134	24.620		0.000		0.00000		0.0846	0.459
40	40 Total Penta-Dioxins				0.932	10.134	29.960		0.000		1.5323		0.270	3.42
41	41 Total Hexa-Dioxins				0.902	10.134	33.635		0.000		32.534		0.566	32.5
42	42 Total Hepta-Dioxins				0.918	10.134	37.640		0.000		388.91		1.95	389
43	43 Total Tetra-Furans				0.848	10.134	23.610		0.000		7.0049		0.168	7.00
44	44 1st Func. Penta-Furans				0.960	10.134	26.930		0.000		9.1026		0.0660	9.10
45	45 Total Penta-Furans				0.960	10.134	29.275		0.000		8.9839		0.201	9.30
46	46 Total Hexa-Furans				1.02	10.134	33.555		0.000		14.530		0.221	14.5
47	47 Total Hepta-Furans				1.05	10.134	37.835		0.000		29.094		0.490	29.1

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Dataset: U:\VG12.PRO\Results\201215R2\201215R2_5.qld

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Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201215R2_5, Date: 15-Dec-2020, Time: 20:02:21, ID: 2002535-01 USMPDI-009SC-A-03-04-201112 15.1, Description: USMPDI-009SC-A-03-04-201112

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Tetra-Dioxins	22.53	3.937e3	3.092e3	3.159e2	2.908e2	1.09	YES	0.000e0	0.00000	0.45870	0.188

Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Penta-Dioxins	28.80	5.408e3	1.234e4	3.572e2	7.409e2	0.48	YES	0.000e0	0.00000	1.0553	0.270
Total Penta-Dioxins	29.27	2.958e3	4.053e3	9.684e1	1.702e2	0.57	NO	2.670e2	0.30492	0.30492	0.270
Total Penta-Dioxins	29.78	7.180e3	9.340e3	3.751e2	4.476e2	0.84	YES	0.000e0	0.00000	0.83300	0.270
Total Penta-Dioxins	30.01	2.229e3	3.653e3	1.636e2	2.675e2	0.61	NO	4.311e2	0.49222	0.49222	0.270
Total Penta-Dioxins	30.25	3.885e3	5.800e3	2.449e2	3.989e2	0.61	NO	6.438e2	0.73514	0.73514	0.270

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Hexa-Dioxins	32.70	9.589e4	7.802e4	4.811e3	3.963e3	1.21	NO	8.774e3	14.048	14.048	0.566
Total Hexa-Dioxins	33.30	1.117e4	1.108e4	6.052e2	4.911e2	1.23	NO	1.096e3	1.7555	1.7555	0.566
Total Hexa-Dioxins	33.59	7.133e4	5.640e4	4.657e3	3.792e3	1.23	NO	8.449e3	13.529	13.529	0.566
Total Hexa-Dioxins	33.66	6.406e3	4.547e3	2.887e2	2.225e2	1.30	NO	5.112e2	0.81853	0.81853	0.566
1,2,3,6,7,8-HxCDD	34.45	1.649e4	1.109e4	8.814e2	6.864e2	1.28	NO	1.568e3	2.3832	2.3832	0.531

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Hepta-Dioxins	37.17	6.134e5	5.967e5	4.462e4	4.426e4	1.01	NO	8.888e4	189.38	189.38	1.95
1,2,3,4,6,7,8-HpCDD	38.20	7.883e5	7.918e5	4.727e4	4.638e4	1.02	NO	9.364e4	199.53	199.53	1.95

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Dataset: U:\VG12.PRO\Results\201215R2\201215R2_5.qld

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Name: 201215R2_5, Date: 15-Dec-2020, Time: 20:02:21, ID: 2002535-01 USMPDI-009SC-A-03-04-201112 15.1, Description: USMPDI-009SC-A-03-04-201112

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.62	9.517e3	1.135e4	8.454e2	1.015e3	0.83	NO	1.860e3	1.5446	1.5446	0.168
2	Total Tetra-Furans	22.58	4.711e3	6.857e3	3.741e2	5.670e2	0.66	NO	9.411e2	0.78142	0.78142	0.168
3	Total Tetra-Furans	23.07	8.417e3	9.369e3	6.482e2	8.019e2	0.81	NO	1.450e3	1.2040	1.2040	0.168
4	Total Tetra-Furans	24.21	6.715e3	9.501e3	6.166e2	7.297e2	0.85	NO	1.346e3	1.1178	1.1178	0.168
5	Total Tetra-Furans	24.65	7.415e3	8.566e3	4.960e2	5.784e2	0.86	NO	1.074e3	0.89211	0.89211	0.168
6	Total Tetra-Furans	25.55	1.993e3	3.167e3	1.253e2	1.731e2	0.72	NO	2.984e2	0.24778	0.24778	0.168
7	2,3,7,8-TCDF	25.67	7.037e3	8.652e3	4.872e2	6.794e2	0.72	NO	1.167e3	0.96864	0.96864	0.168
8	Total Tetra-Furans	27.16	2.986e3	3.491e3	1.334e2	1.658e2	0.80	NO	2.992e2	0.24846	0.24846	0.168

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	1.088e5	6.685e4	6.613e3	3.979e3	1.66	NO	1.059e4	9.1026	9.1026	0.0660

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.80	3.782e4	2.231e4	2.443e3	1.645e3	1.49	NO	4.088e3	3.5129	3.5129	0.201
2	Total Penta-Furans	29.43	1.632e4	1.177e4	9.240e2	5.776e2	1.60	NO	1.502e3	1.2904	1.2904	0.201
3	Total Penta-Furans	29.59	5.271e3	3.336e3	2.226e2	1.868e2	1.19	YES	0.000e0	0.00000	0.31469	0.201
4	1,2,3,7,8-PeCDF	29.78	1.958e4	1.576e4	1.066e3	7.863e2	1.36	NO	1.852e3	1.4964	1.4964	0.185
5	Total Penta-Furans	30.04	1.365e4	7.930e3	6.743e2	3.826e2	1.76	NO	1.057e3	0.90831	0.90831	0.201
6	2,3,4,7,8-PeCDF	30.85	2.585e4	1.581e4	1.306e3	8.457e2	1.54	NO	2.151e3	1.7760	1.7760	0.196

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201215R2\201215R2_5.qld

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Name: 201215R2_5, Date: 15-Dec-2020, Time: 20:02:21, ID: 2002535-01 USMPDI-009SC-A-03-04-201112 15.1, Description: USMPDI-009SC-A-03-04-201112

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Hexa-Furans	32.18	1.173e4	7.343e3	4.583e2	3.516e2	1.30	NO	8.099e2	1.0645	1.0645	0.221
2	Total Hexa-Furans	32.35	2.859e4	2.427e4	1.623e3	1.280e3	1.27	NO	2.903e3	3.8158	3.8158	0.221
3	Total Hexa-Furans	32.97	4.411e4	4.324e4	2.369e3	1.947e3	1.22	NO	4.317e3	5.6736	5.6736	0.221
4	1,2,3,4,7,8-HxCDF	33.45	2.038e4	1.978e4	1.058e3	8.810e2	1.20	NO	1.939e3	2.4380	2.4380	0.195
5	1,2,3,6,7,8-HxCDF	33.58	6.548e3	5.454e3	3.452e2	2.956e2	1.17	NO	6.407e2	0.77592	0.77592	0.196
6	2,3,4,6,7,8-HxCDF	34.22	4.584e3	4.861e3	2.922e2	2.718e2	1.08	NO	5.640e2	0.76226	0.76226	0.235

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.80	3.124e4	2.867e4	2.052e3	2.005e3	1.02	NO	4.057e3	8.3452	8.3452	0.516
2	Total Hepta-Furans	37.52	5.998e4	6.392e4	4.404e3	4.547e3	0.97	NO	8.951e3	19.899	19.899	0.490
3	1,2,3,4,7,8,9-HpCDF	38.82	3.866e3	2.958e3	2.009e2	1.927e2	1.04	NO	3.936e2	0.84938	0.84938	0.409

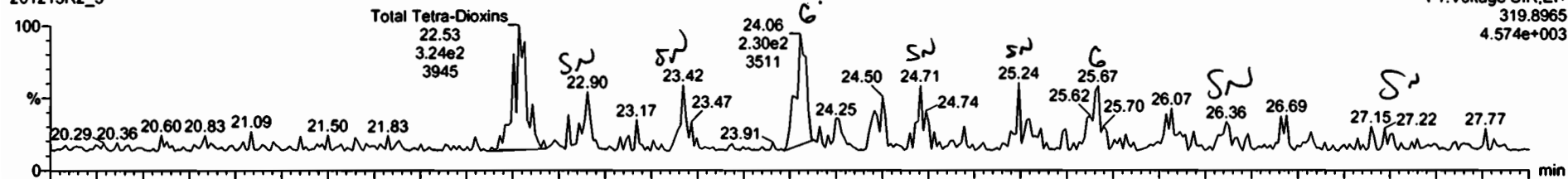
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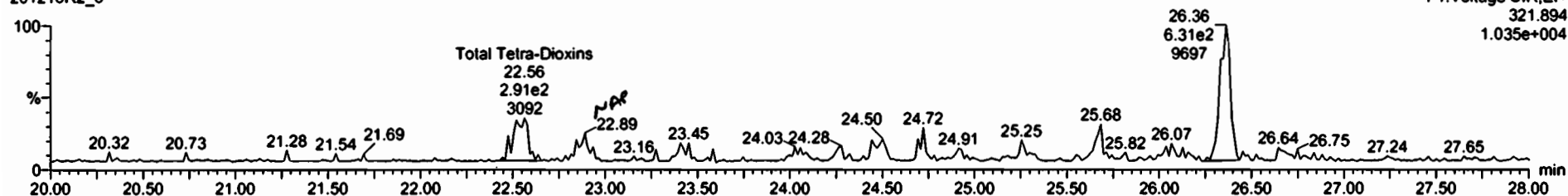
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2,3,7,8-TCDD

201215R2_5



201215R2_5

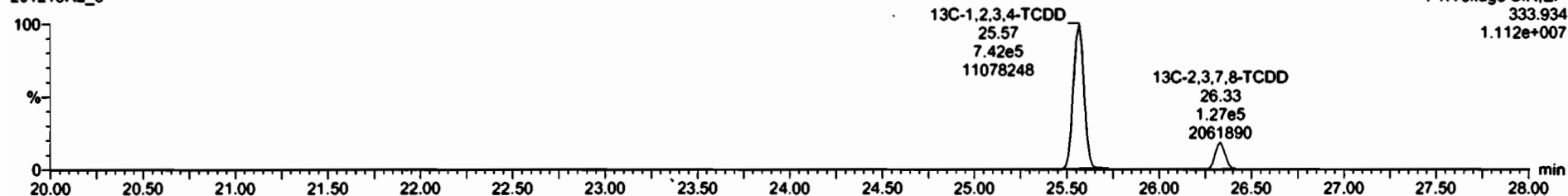


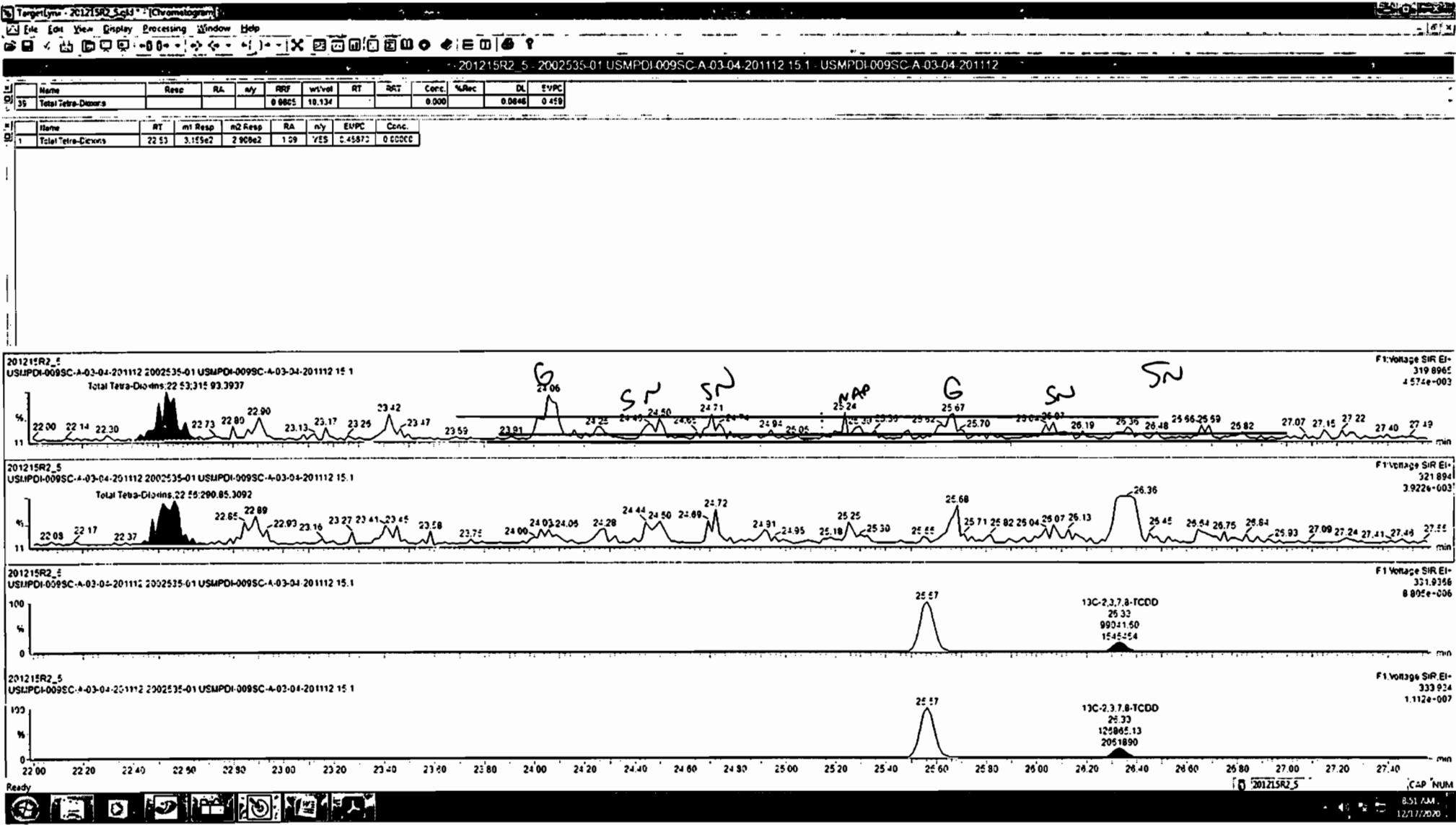
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201215R2_5



201215R2_5





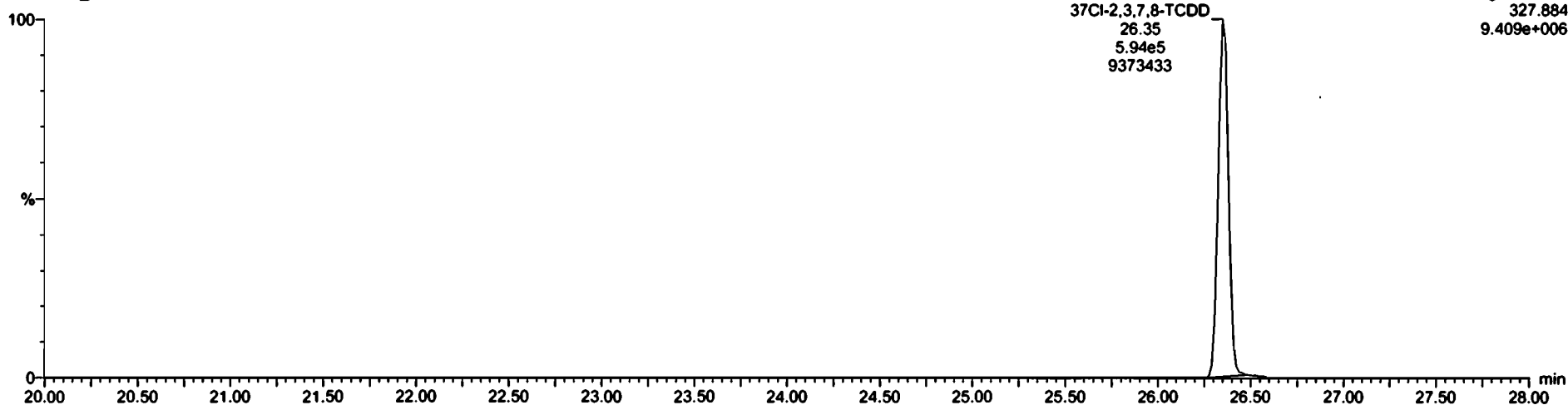
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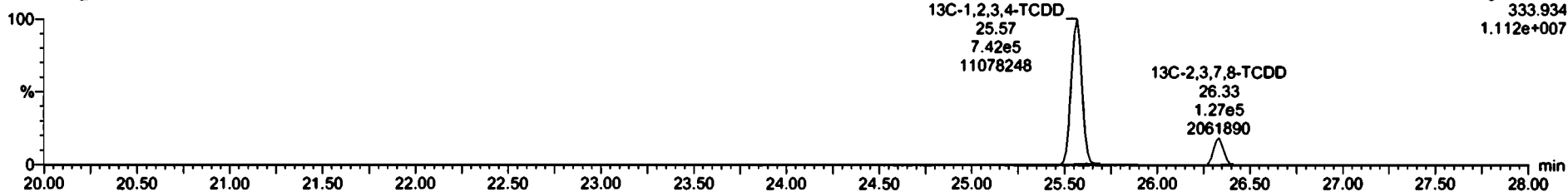


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201215R2_5



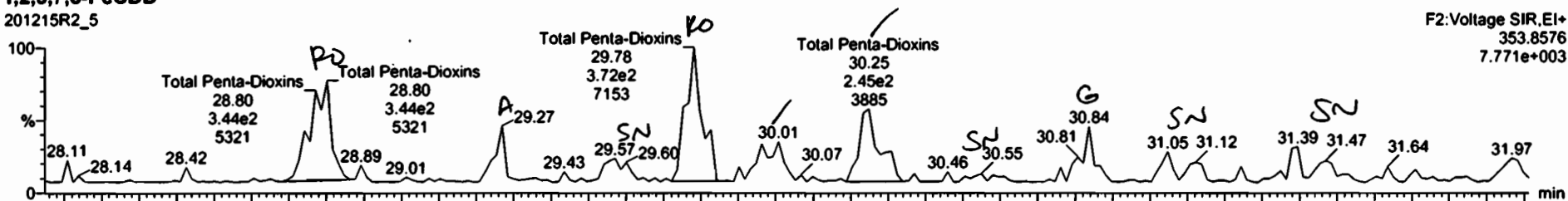
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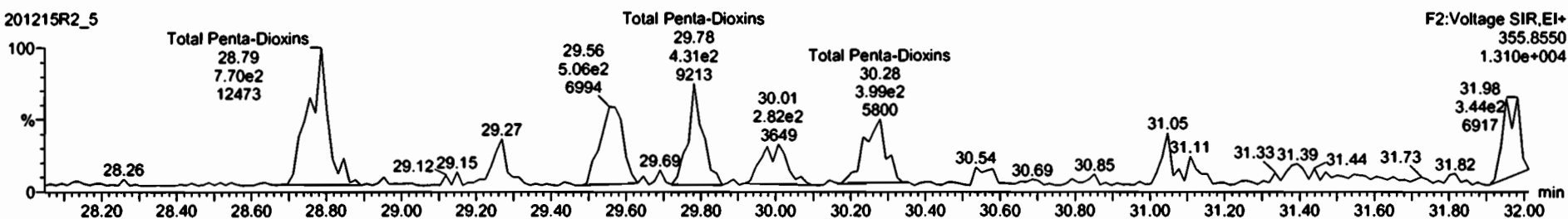
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201215R2_5



F2: Voltage SIR, EI+
353.8576
7.771e+003

201215R2_5



F2: Voltage SIR, EI+
355.8550
1.310e+004

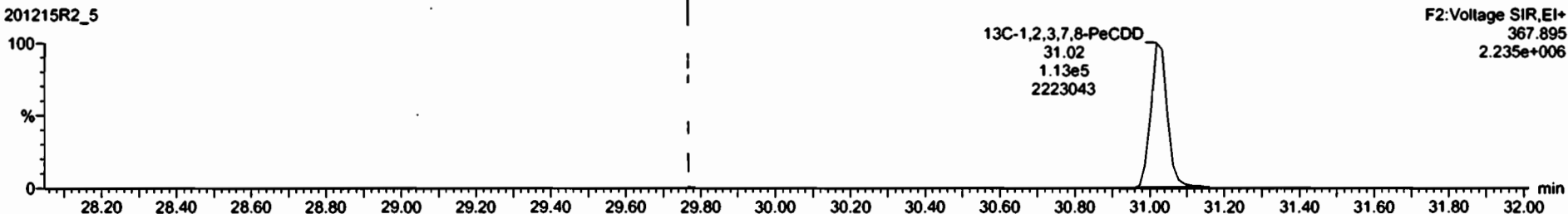
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201215R2_5



F2: Voltage SIR, EI+
365.8978
1.456e+006

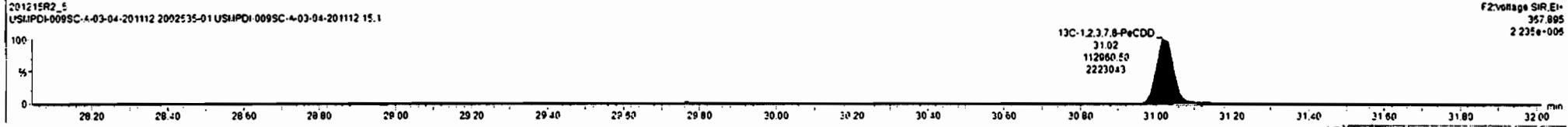
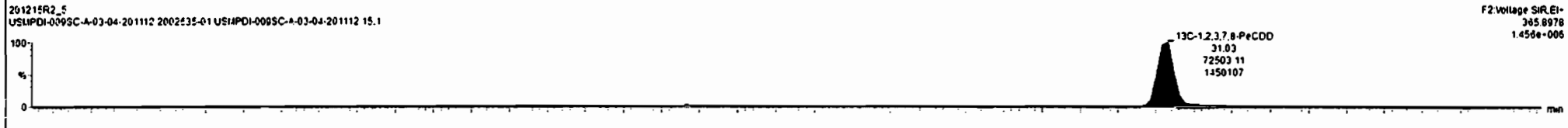
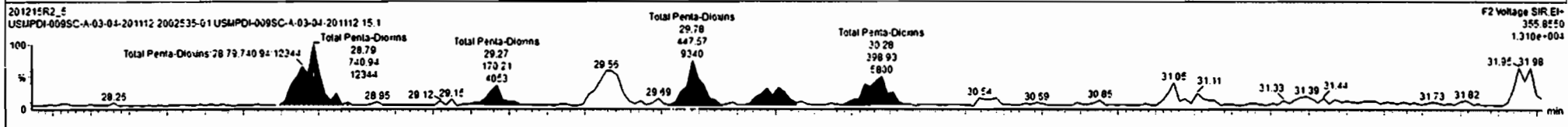
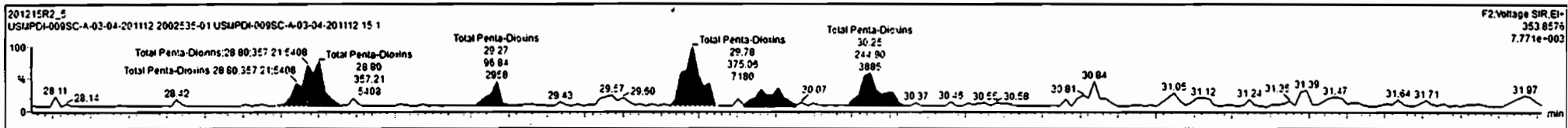
201215R2_5



F2: Voltage SIR, EI+
367.895
2.235e+006

Name	Resp	RA	n/y	ORF	wt% of	RT	QRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Chlorins			0.6865	10.134			0.000		0.0848	0.459

Name	RT /	int Resp	m2 Resp	RA	n/y	EMPC	Conc.	
1	Total Penta-Dioxins	28.80	3.572e2	7.405e2	0.48	YES	1.0253	0.00000
2	Total Penta-Dioxins	28.27	9.684e1	1.702e2	0.57	NO	3.35492	0.30492
3	Total Penta-Dioxins	28.76	3.751e2	4.476e2	0.84	YES	0.83300	0.00000
4	Total Penta-Dioxins	30.01	1.636e2	2.875e2	0.61	NO	0.49222	0.49222
5	Total Penta-Dioxins	30.25	2.442e2	3.989e2	0.61	NO	0.73514	0.73514



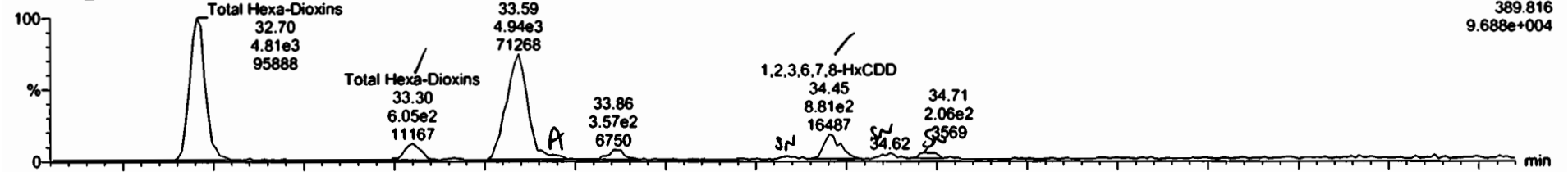
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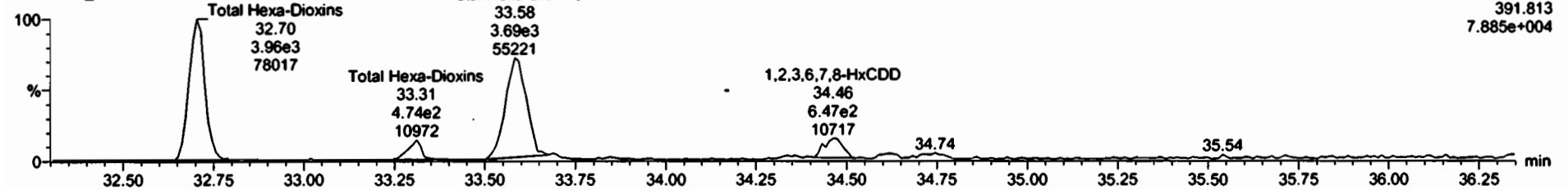
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1,2,3,4,7,8-HxCDD

201215R2_5

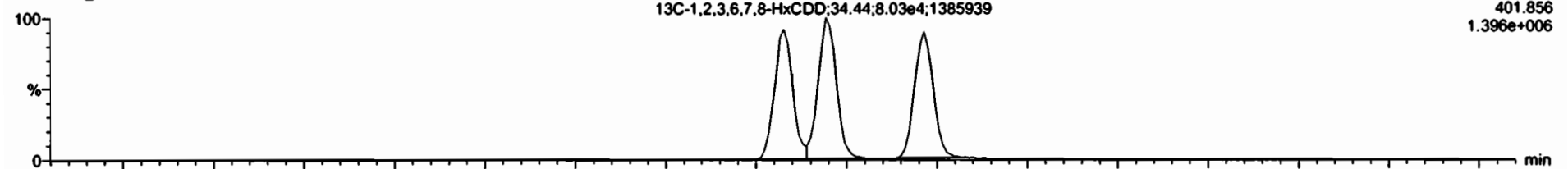


201215R2_5

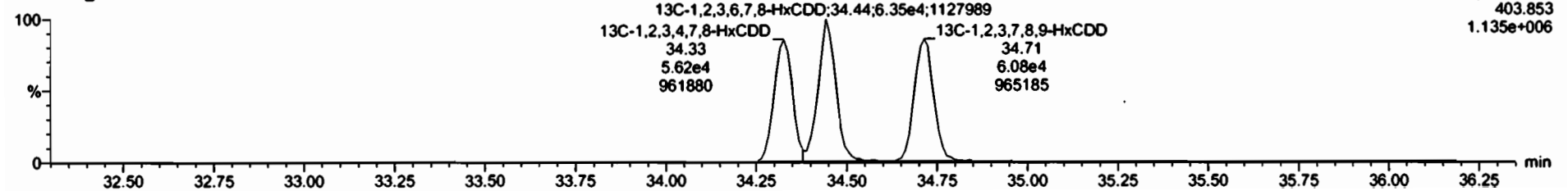


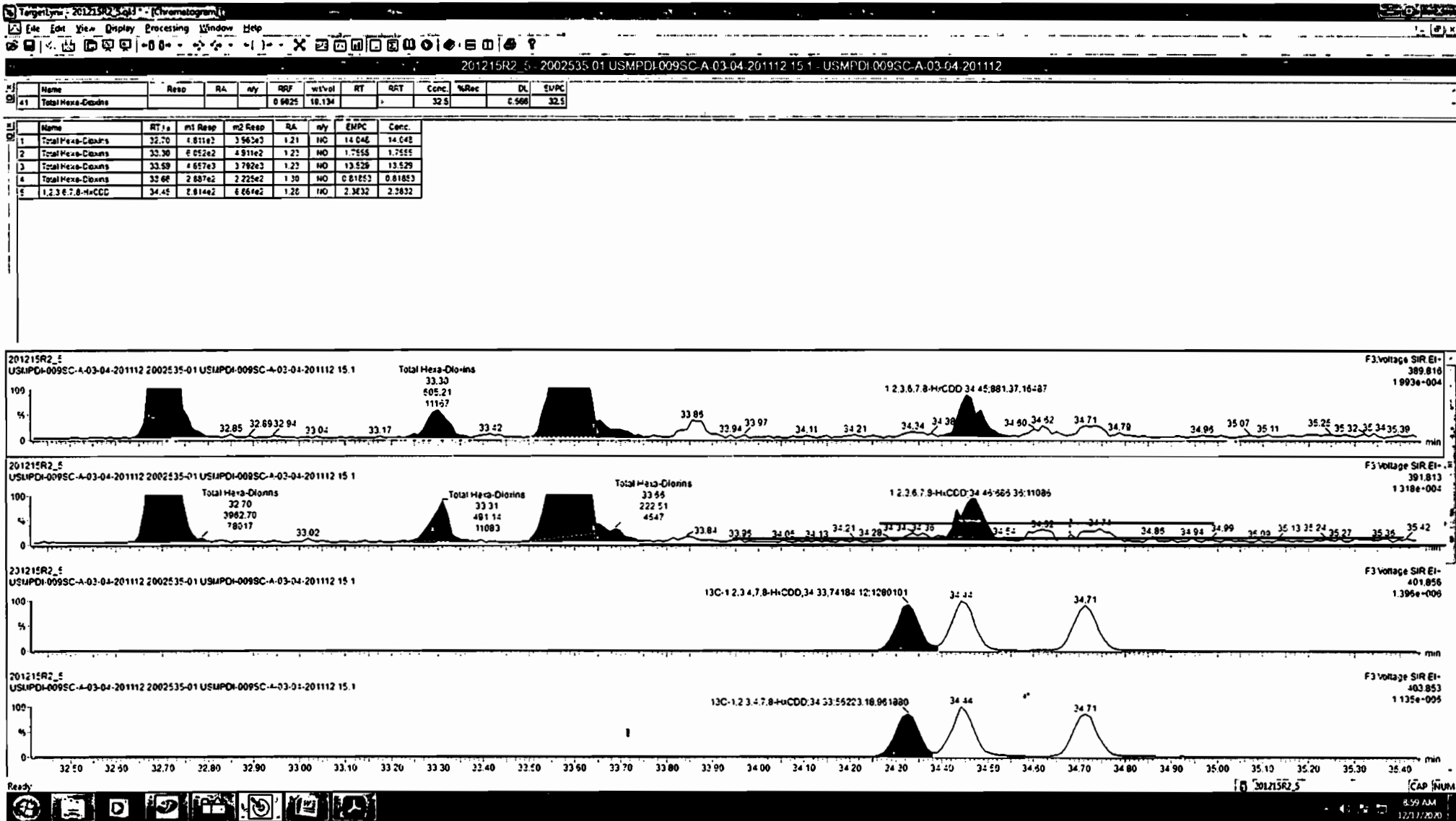
13C-1,2,3,4,7,8-HxCDD

201215R2_5



201215R2_5





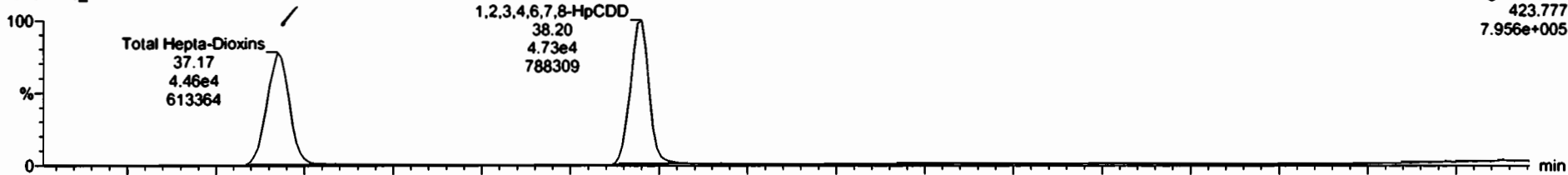
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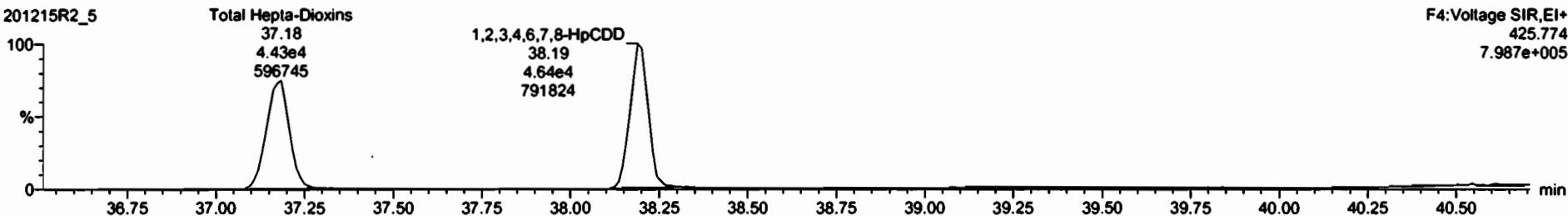
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1,2,3,4,6,7,8-HpCDD

201215R2_5

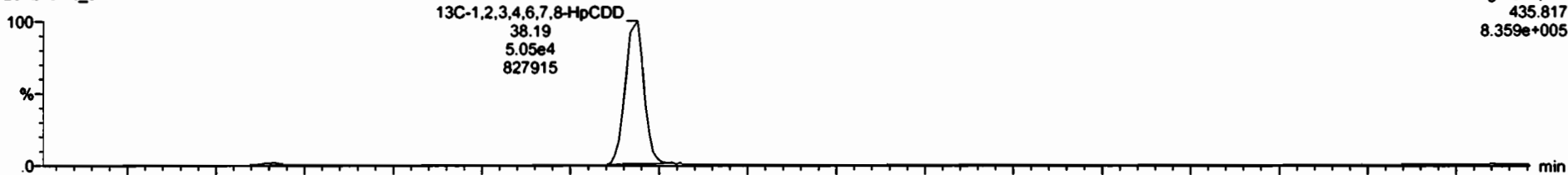


201215R2_5

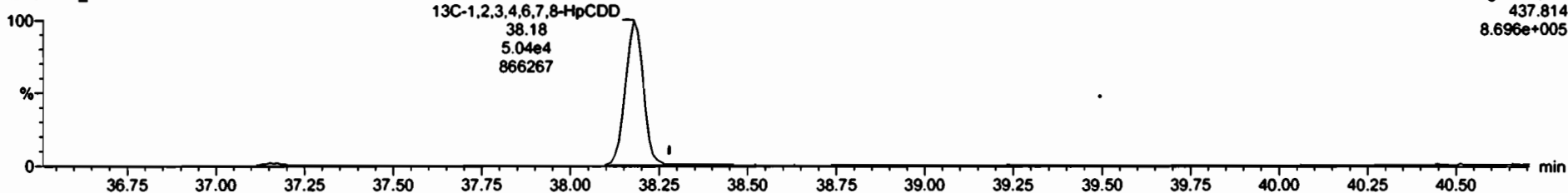


13C-1,2,3,4,6,7,8-HpCDD

201215R2_5



201215R2_5



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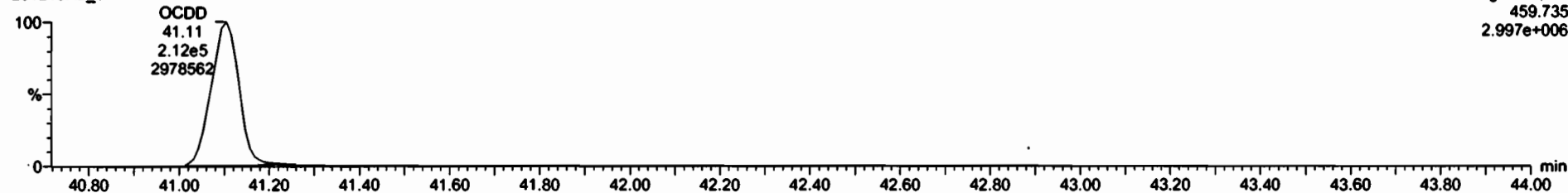
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OCDD

201215R2_5



201215R2_5

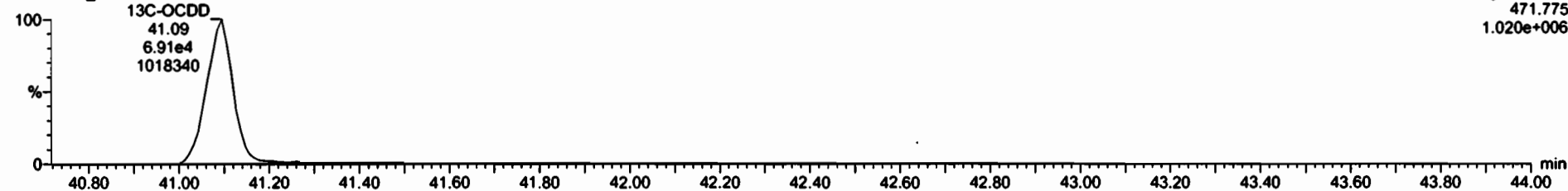


13C-OCDD

201215R2_5



201215R2_5



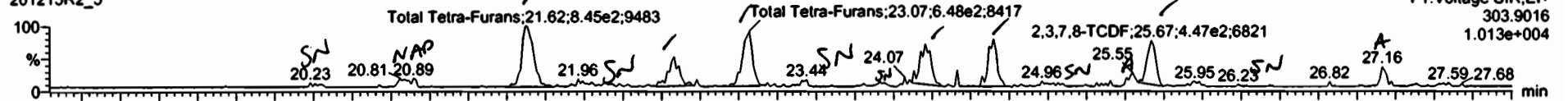
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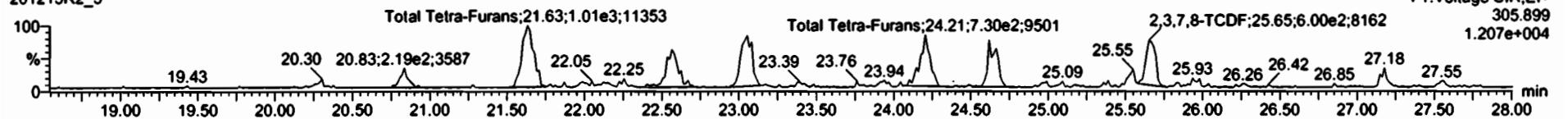
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2,3,7,8-TCDF

201215R2_5

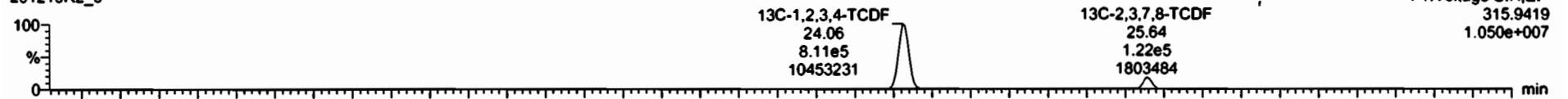


201215R2_5

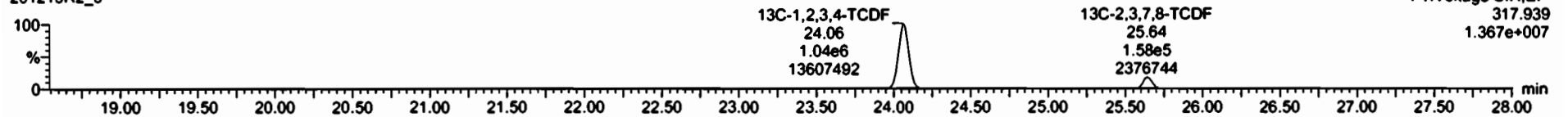


13C-2,3,7,8-TCDF

201215R2_5

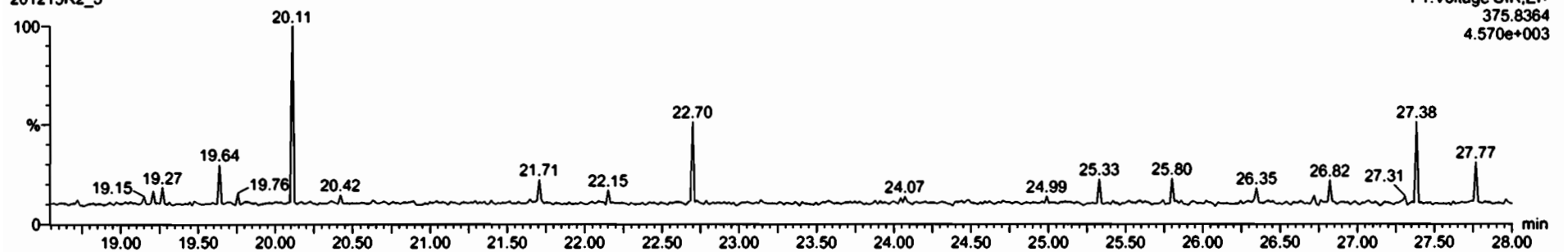


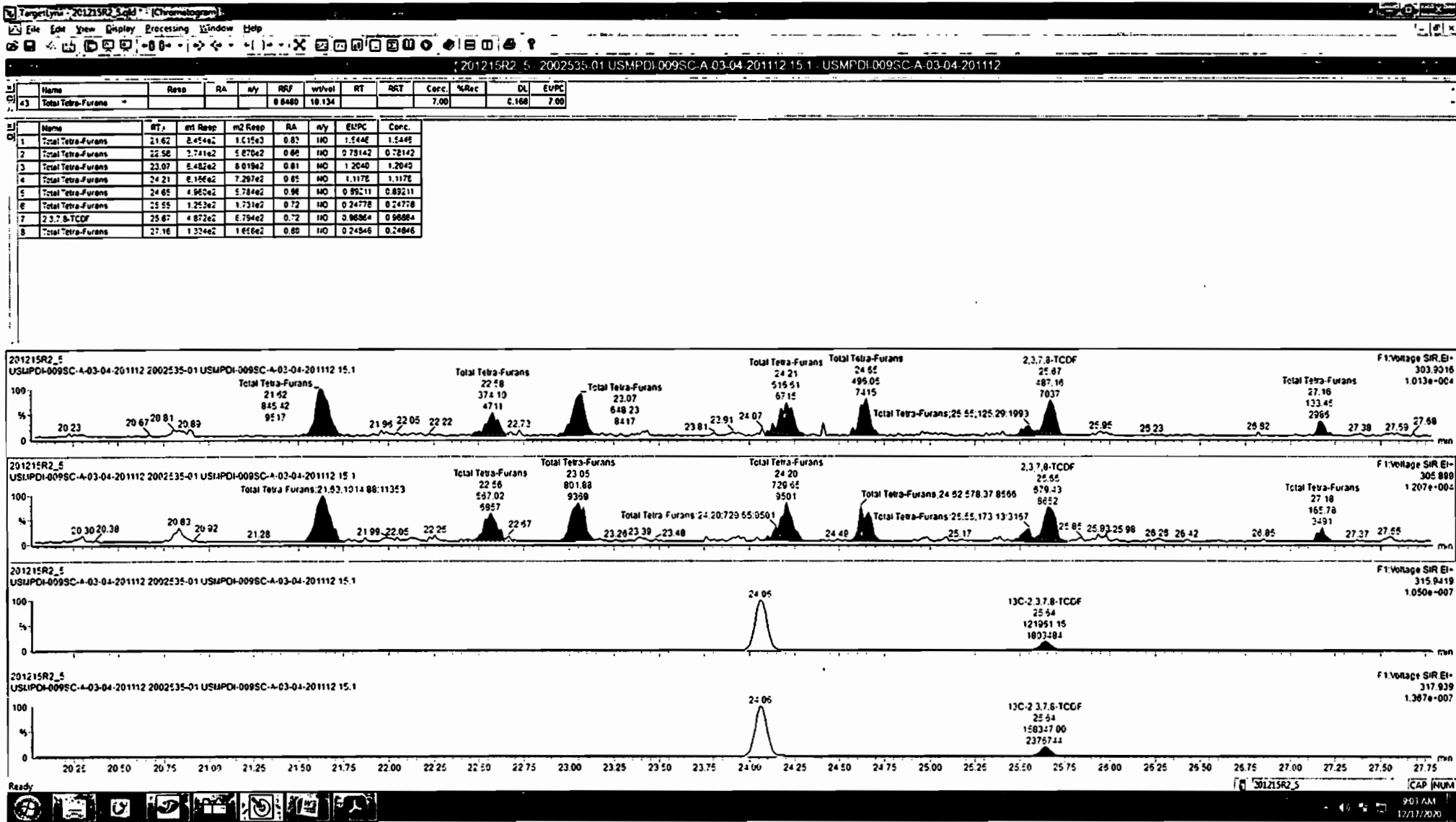
201215R2_5



DPE1

201215R2_5





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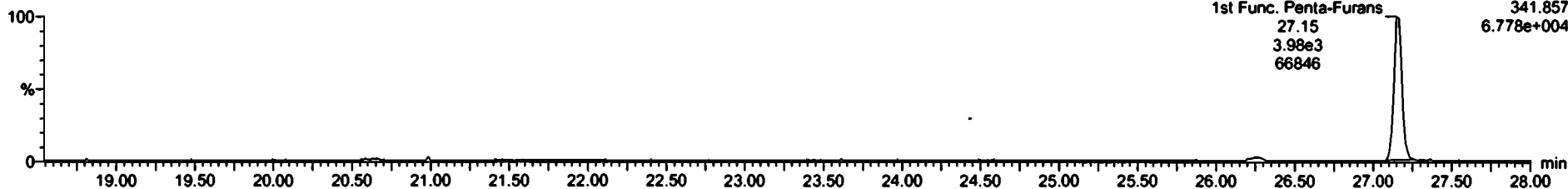
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1st Func. Penta-Furans

201215R2_5

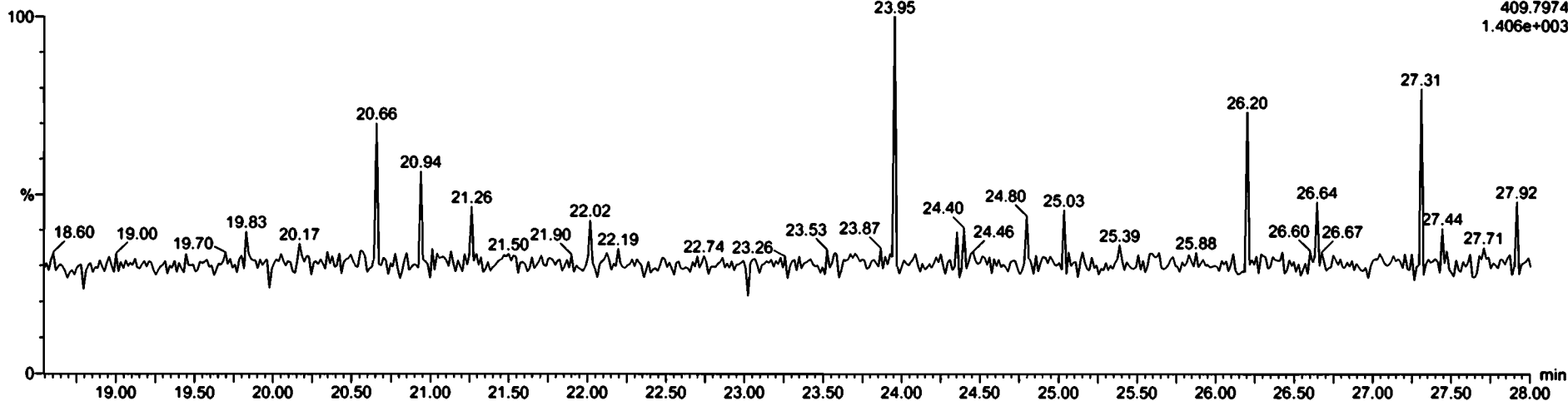


201215R2_5



DPE6

201215R2_5



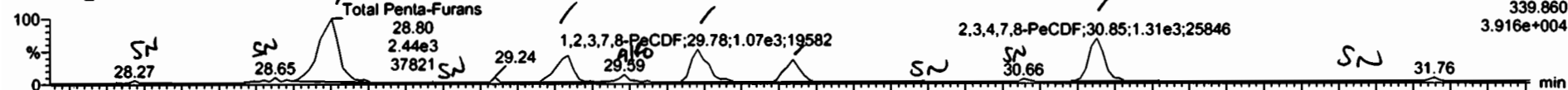
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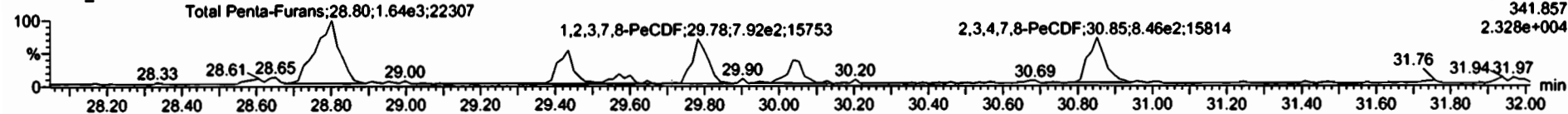
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1,2,3,7,8-PeCDF

201215R2_5



201215R2_5

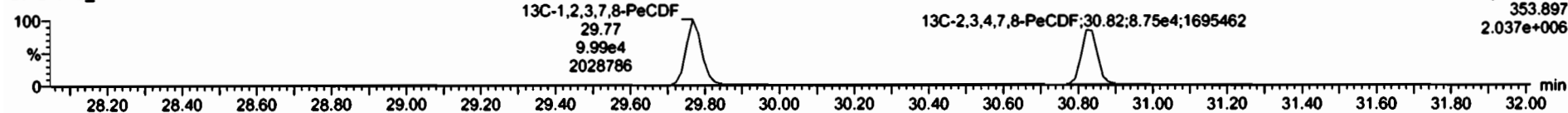


13C-1,2,3,7,8-PeCDF

201215R2_5

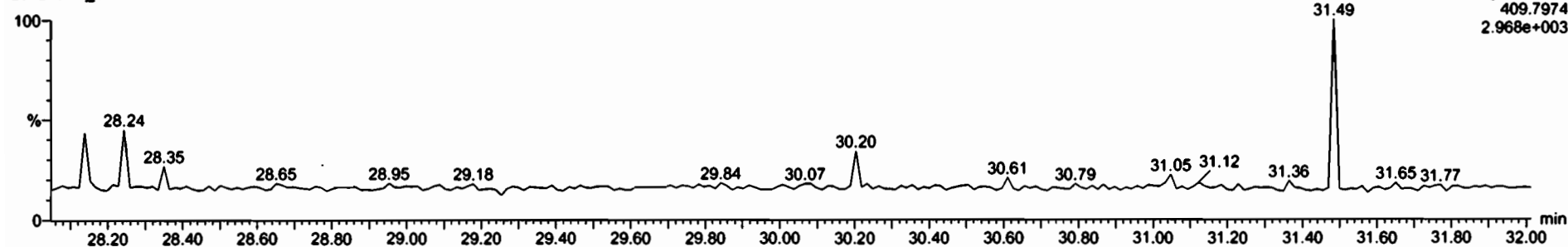


201215R2_5



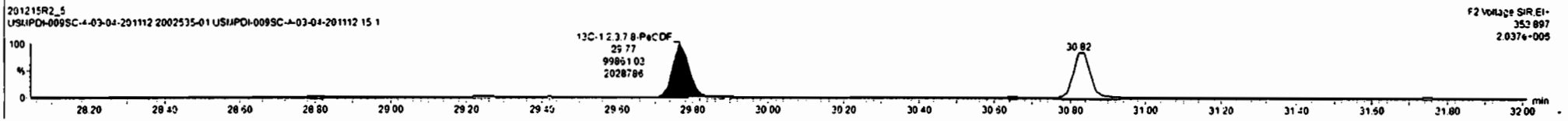
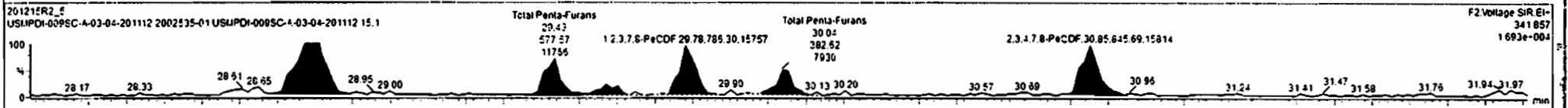
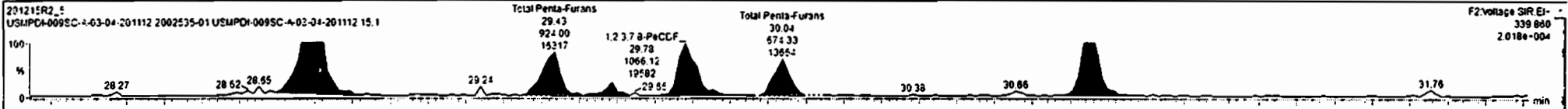
DPE2

201215R2_5



Name	Resp	RA	n/y	RFI	wt/wt	RT	QRT	Conc.	%Rec	DL	EvPC
25	Total Penta-Furans			8.9597	18.134						9.30

Name	RT	m1 Resp	m2 Resp	RA	n/y	-EVPC	Conc.
1	Total Penta-Furans	28.80	2.442e2	1.845e2	1.45	NO	2.5125
2	Total Penta-Furans	29.43	5.242e2	5.778e2	1.60	NO	1.2904
3	Total Penta-Furans	29.50	2.226e2	1.866e2	1.19	YES	0.31465
4	1,2,3,7,8-PeCCF*	29.78	1.066e2	7.862e2	1.36	NO	1.4964
5	Total Penta-Furans	30.04	8.745e2	3.826e2	1.78	NO	0.90231
6	2,3,4,7,8-PeCDF	30.85	1.306e3	8.457e2	1.54	NO	1.7780

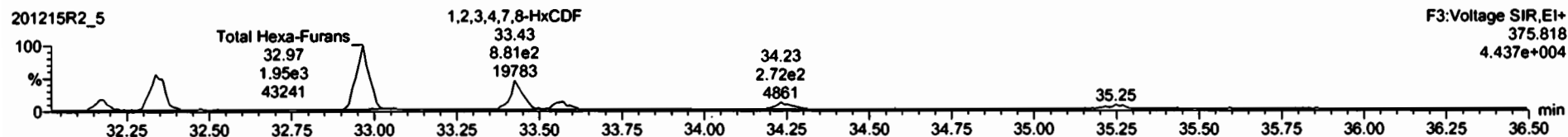
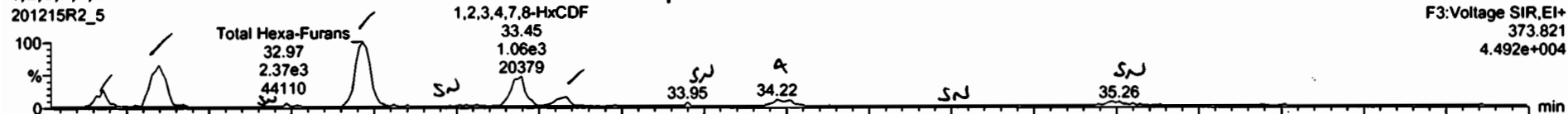


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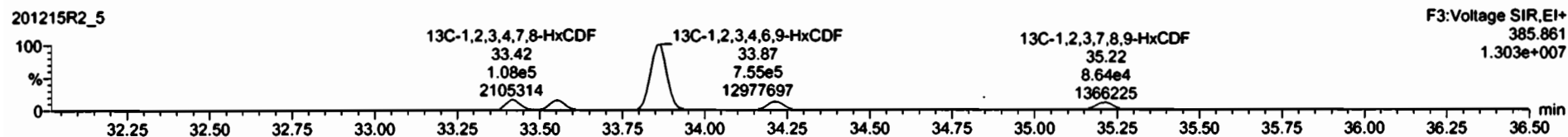
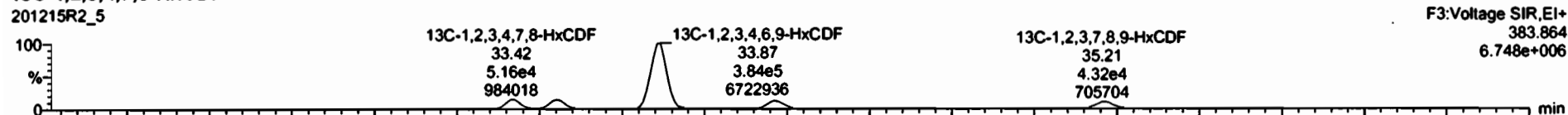
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Name: 201215R2_5, Date: 15-Dec-2020, Time: 20:02:21, ID: 2002535-01 USMPDI-009SC-A-03-04-201112 15.1, Description: USMPDI-009SC-A-03-04-201112

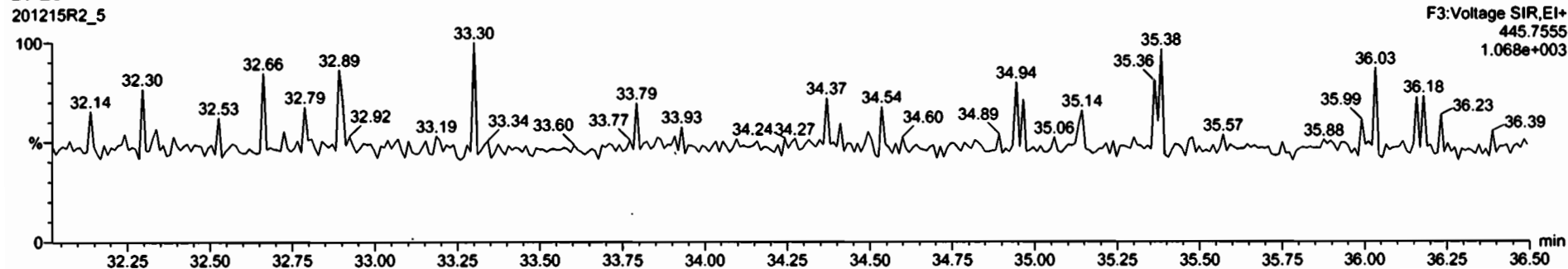
1,2,3,4,7,8-HxCDF

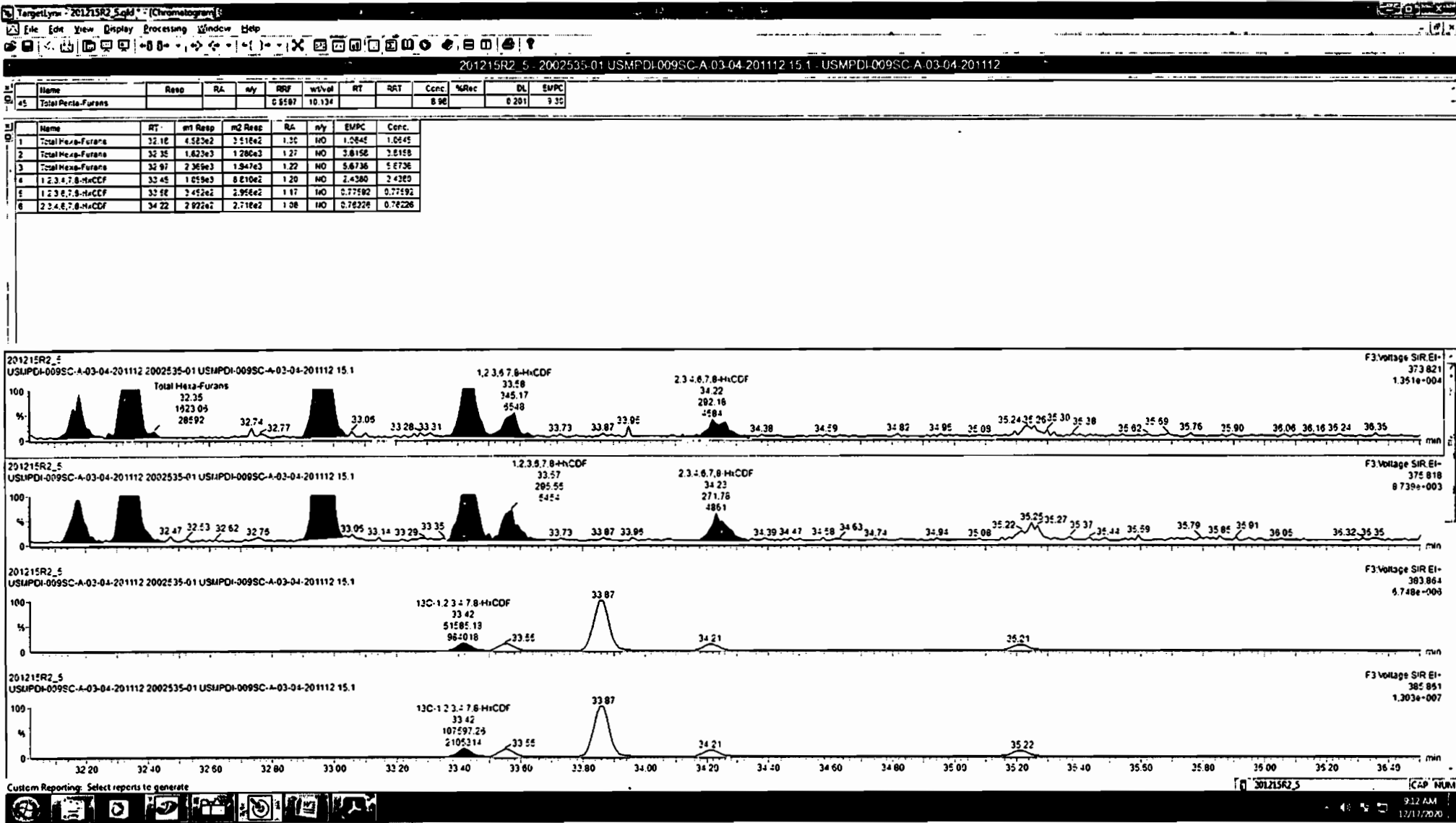


13C-1,2,3,4,7,8-HxCDF



DPE3





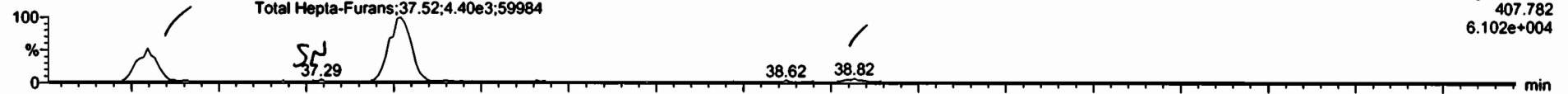
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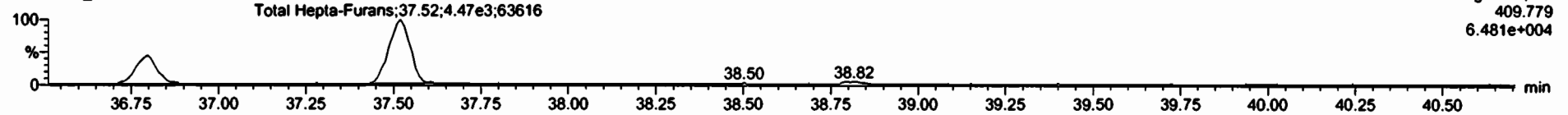
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1,2,3,4,6,7,8-HpCDF

201215R2_5

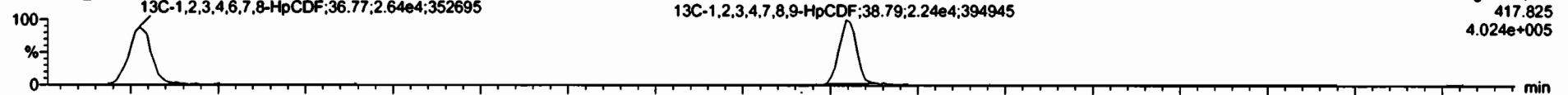


201215R2_5

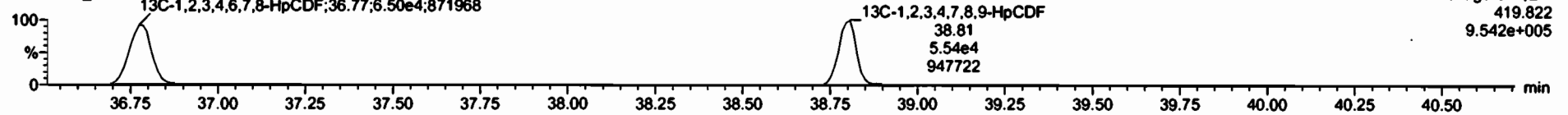


13C-1,2,3,4,6,7,8-HpCDF

201215R2_5

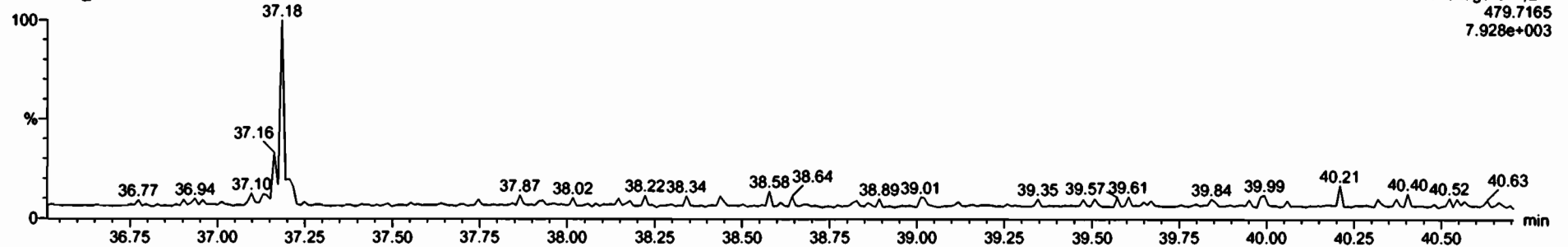


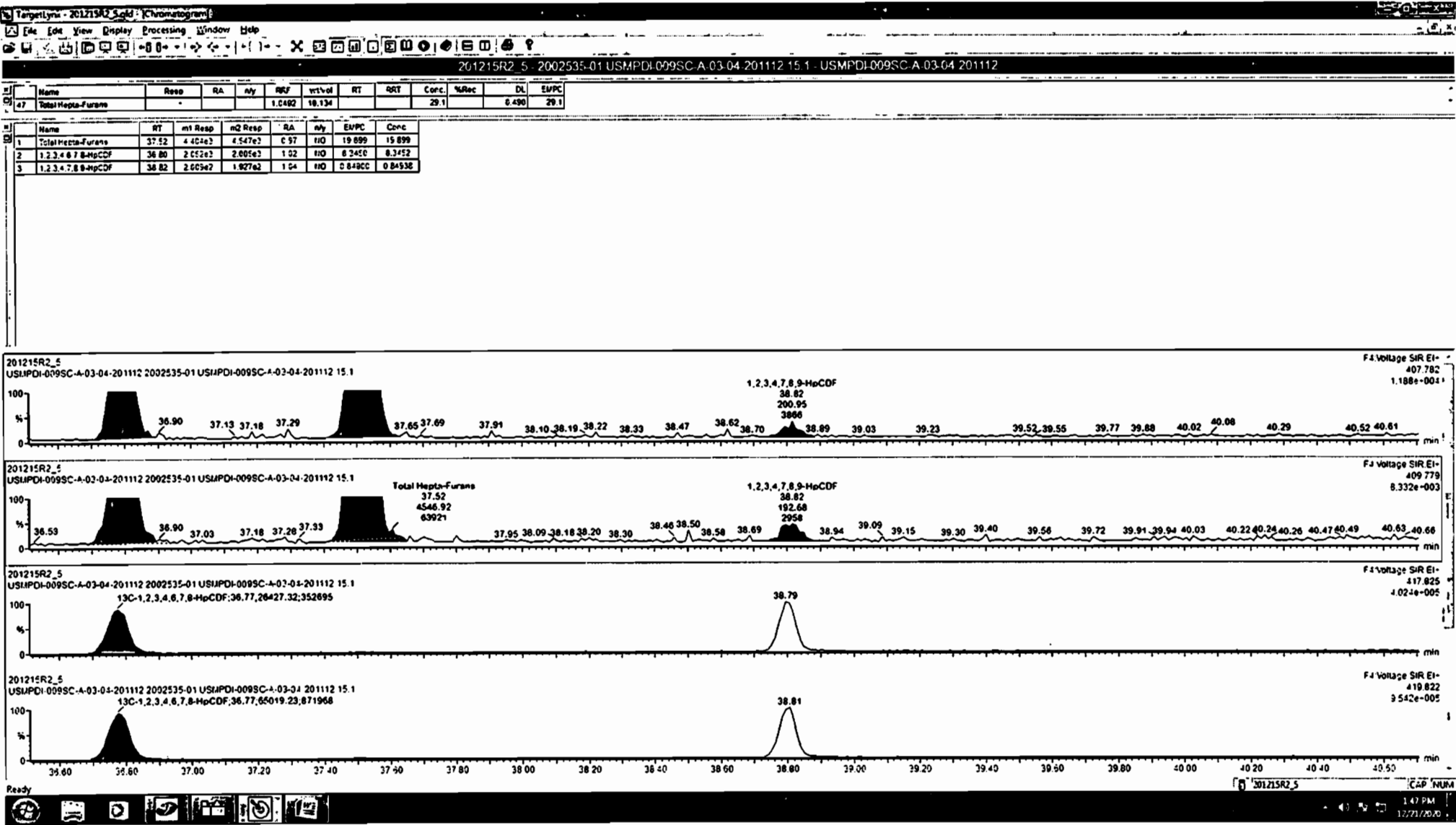
201215R2_5



DPE4

201215R2_5

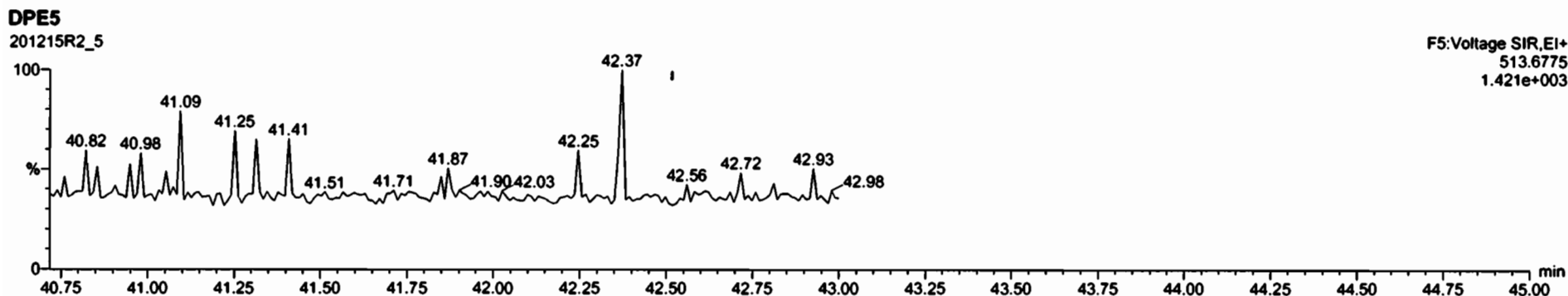
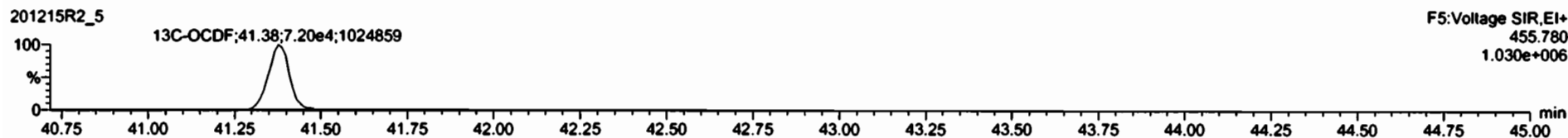
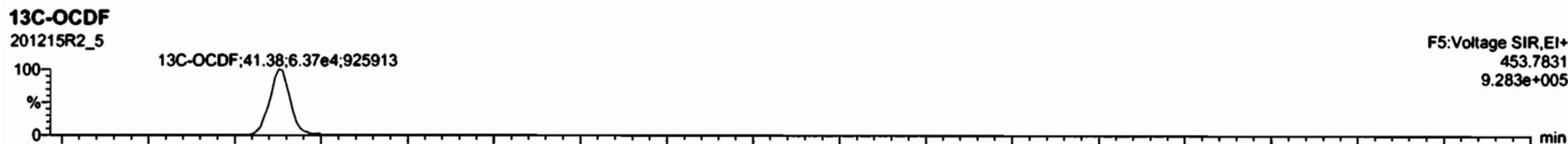
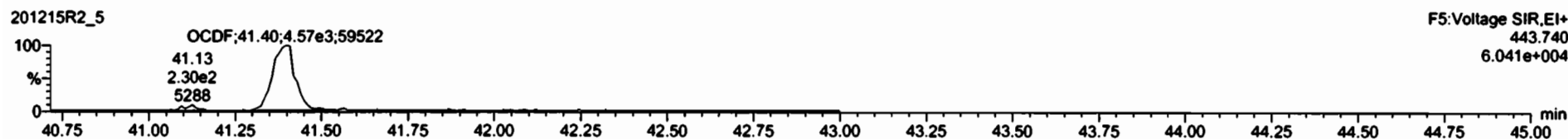
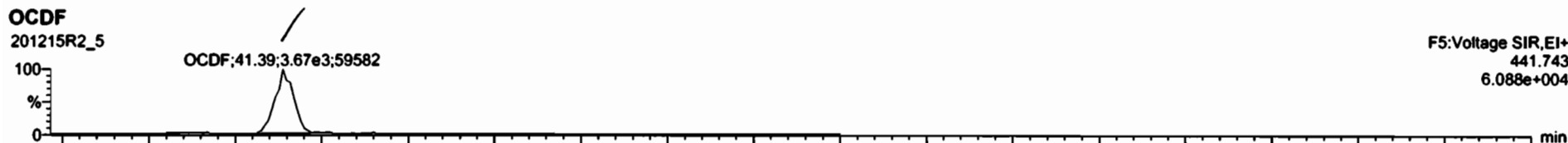




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Printed: Wednesday, December 16, 2020 7:06:08 AM Pacific Standard Time

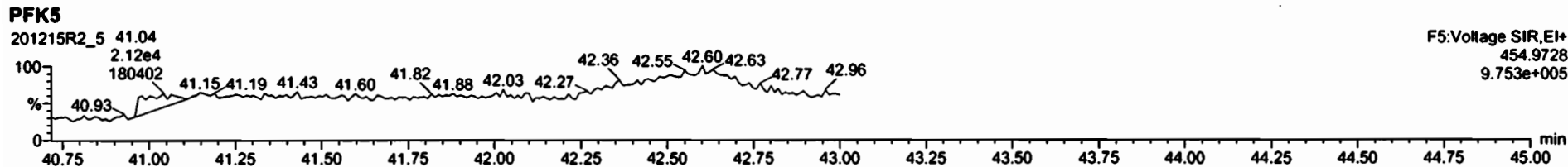
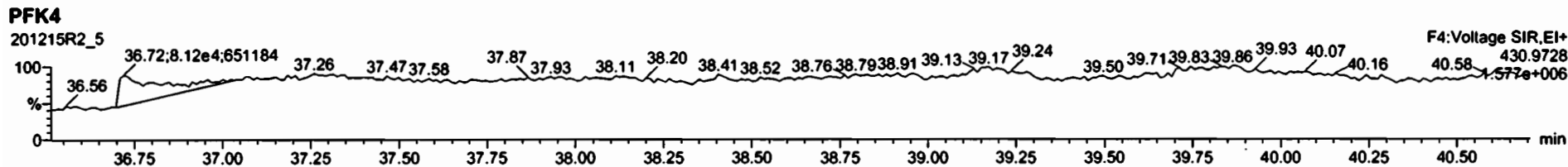
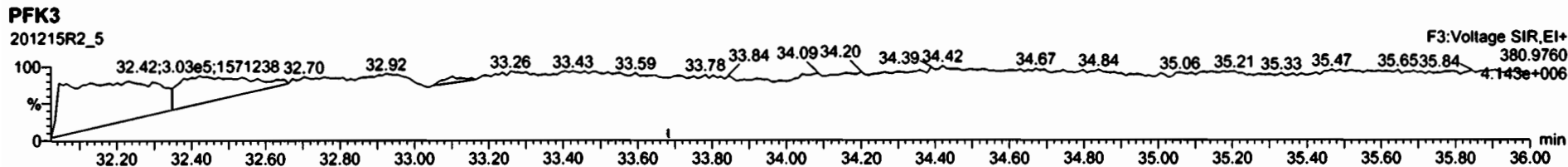
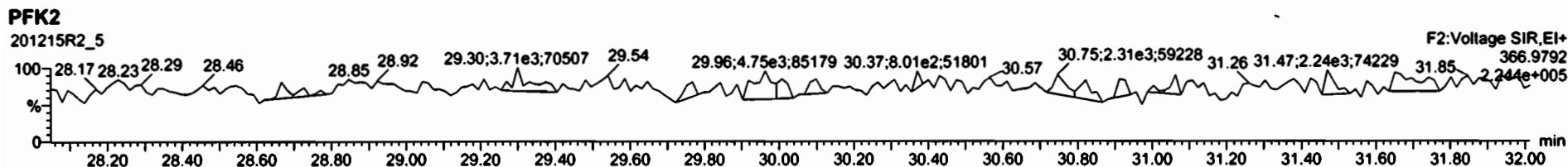
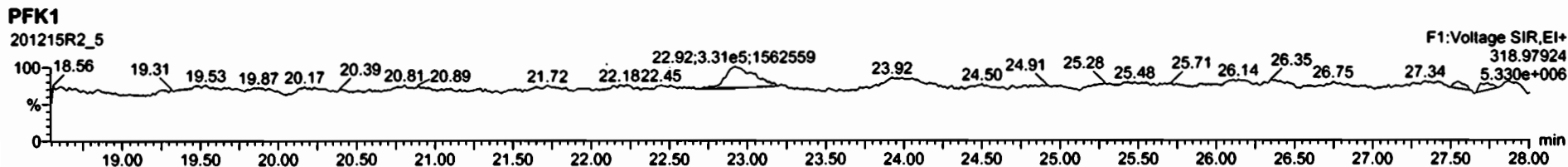
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Dataset: U:\VG12.PRO\Results\201215R2\201215R2_6.qld

Last Altered: Thursday, December 17, 2020 9:34:13 AM Pacific Standard Time
Printed: Thursday, December 17, 2020 9:36:04 AM Pacific Standard Time

GRB 12/17/2020

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Calibration: U:\VG12.PRO\CurveDB\ldbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

CT 12/18/2020

Name: 201215R2_6, Date: 15-Dec-2020, Time: 20:46:37, ID: 2002535-02 USMPDI-009SC-A-04-05-201112 18.67, Description: USMPDI-009SC-A-04-05-201112

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD			NO	0.980	10.367	26.366		1.001				0.0355	
2	1,2,3,7,8-PeCDD			NO	0.932	10.367	31.049		1.001				0.0803	
3	1,2,3,4,7,8-HxCDD			NO	1.02	10.367	34.347		1.001				0.0582	
4	1,2,3,6,7,8-HxCDD			NO	0.902	10.367	34.462		1.001				0.0617	
5	1,2,3,7,8,9-HxCDD			NO	0.954	10.367	34.724		1.000				0.0605	
6	1,2,3,4,6,7,8-HpCDD	2.39e2	1.13	NO	0.918	10.367	38.200	38.22	1.000	1.001	0.15884		0.0463	0.159
7	OCDD	9.10e2	0.85	NO	0.866	10.367	41.113	41.12	1.000	1.000	0.89428		0.223	0.894
8	2,3,7,8-TCDF			NO	0.848	10.367	25.642		1.000				0.0318	
9	1,2,3,7,8-PeCDF			NO	0.960	10.367	29.770		1.000				0.0378	
10	2,3,4,7,8-PeCDF			NO	1.07	10.367	30.859		1.001				0.0375	
11	1,2,3,4,7,8-HxCDF			NO	0.986	10.367	33.426		1.000				0.0489	
12	1,2,3,6,7,8-HxCDF			NO	1.04	10.367	33.571		1.001				0.0474	
13	2,3,4,6,7,8-HxCDF			NO	1.02	10.367	34.232		1.001				0.0534	
14	1,2,3,7,8,9-HxCDF			NO	0.991	10.367	35.217		1.000				0.0653	
15	1,2,3,4,6,7,8-HpCDF			NO	1.05	10.367	36.803		1.000				0.0683	
16	1,2,3,4,7,8,9-HpCDF			NO	1.18	10.367	38.817		1.000				0.0594	
17	OCDF			NO	0.896	10.367	41.406		1.000				0.0932	
18	13C-2,3,7,8-TCDD	6.44e5	0.79	NO	1.06	10.367	26.337	26.33	1.030	1.030	94.351	48.9	0.132	
19	13C-1,2,3,7,8-PeCDD	5.61e5	0.62	NO	0.785	10.367	31.174	31.02	1.219	1.213	110.51	57.3	0.0965	
20	13C-1,2,3,4,7,8-HxCDD	3.85e5	1.28	NO	0.621	10.367	34.327	34.33	1.014	1.014	109.64	56.8	0.248	
21	13C-1,2,3,6,7,8-HxCDD	4.24e5	1.25	NO	0.734	10.367	34.448	34.44	1.017	1.017	101.93	52.8	0.210	
22	13C-1,2,3,7,8,9-HxCDD	4.17e5	1.24	NO	0.723	10.367	34.733	34.71	1.026	1.025	101.87	52.8	0.213	
23	13C-1,2,3,4,6,7,8-HpCDD	3.16e5	1.02	NO	0.568	10.367	38.231	38.19	1.129	1.128	98.326	51.0	0.521	
24	13C-OCDD	4.54e5	0.89	NO	0.496	10.367	41.168	41.10	1.216	1.214	161.52	41.9	0.417	
25	13C-2,3,7,8-TCDF	8.03e5	0.76	NO	0.919	10.367	25.637	25.64	1.003	1.003	97.114	50.3	0.129	
26	13C-1,2,3,7,8-PeCDF	7.67e5	1.60	NO	0.715	10.367	29.885	29.77	1.169	1.164	119.14	61.8	0.248	
27	13C-2,3,4,7,8-PeCDF	6.97e5	1.59	NO	0.689	10.367	30.972	30.84	1.212	1.206	112.59	58.4	0.258	
28	13C-1,2,3,4,7,8-HxCDF	4.56e5	0.50	NO	0.873	10.367	33.433	33.42	0.987	0.987	92.258	47.8	0.289	
29	13C-1,2,3,6,7,8-HxCDF	4.55e5	0.50	NO	0.933	10.367	33.561	33.55	0.991	0.991	86.130	44.6	0.270	
30	13C-2,3,4,6,7,8-HxCDF	4.35e5	0.50	NO	0.843	10.367	34.228	34.21	1.011	1.010	91.125	47.2	0.299	
31	13C-1,2,3,7,8,9-HxCDF	3.98e5	0.50	NO	0.780	10.367	35.227	35.21	1.040	1.040	90.044	46.7	0.323	

Dataset: U:\VG12.PRO\Results\201215R2\201215R2_6.qld

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Name: 201215R2_6, Date: 15-Dec-2020, Time: 20:46:37, ID: 2002535-02 USMPDI-009SC-A-04-05-201112 18.67, Description: USMPDI-009SC-A-04-05-201112

#	Name	Resp	RA	n/y	RRF	w/Vol	Pred.RT	RT	tPred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	2.96e5	0.42	NO	0.726	10.367	36.802	36.78	1.087	1.086	71.938	37.3	0.365	
33	13C-1,2,3,4,7,8,9-HpCDF	2.52e5	0.41	NO	0.491	10.367	38.810	38.81	1.146	1.146	90.576	46.9	0.540	
34	13C-OCDF	4.74e5	0.85	NO	0.565	10.367	41.384	41.40	1.222	1.222	147.95	38.3	0.279	
35	37Cl-2,3,7,8-TCDD	4.46e5			1.22	10.367	26.332	26.35	1.030	1.031	56.682	73.5	0.0135	
36	13C-1,2,3,4-TCDD	1.25e6	0.79	NO	1.00	10.367	25.640	25.57	1.000	1.000	192.93	100	0.139	
37	13C-1,2,3,4-TCDF	1.74e6	0.77	NO	1.00	10.367	24.130	24.07	1.000	1.000	192.93	100	0.119	
38	13C-1,2,3,4,6,9-HxCDF	1.09e6	0.50	NO	1.00	10.367	33.920	33.87	1.000	1.000	192.93	100	0.252	
39	Total Tetra-Dioxins				0.980	10.367	24.620		0.000				0.0188	
40	Total Penta-Dioxins				0.932	10.367	29.960		0.000				0.0460	
41	Total Hexa-Dioxins				0.902	10.367	33.635		0.000				0.0372	
42	Total Hepta-Dioxins				0.918	10.367	37.640		0.000		0.15884		0.0463	0.159
43	Total Tetra-Furans				0.848	10.367	23.610		0.000				0.0141	
44	1st Func. Penta-Furans				0.960	10.367	26.930		0.000				0.00665	
45	Total Penta-Furans				0.960	10.367	29.275		0.000				0.0173	
46	Total Hexa-Furans				1.02	10.367	33.555		0.000				0.0258	
47	Total Hepta-Furans				1.05	10.367	37.835		0.000				0.0408	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201215R2\201215R2_6.qld

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Printed: Thursday, December 17, 2020 9:36:04 AM Pacific Standard Time

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Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201215R2_6, Date: 15-Dec-2020, Time: 20:46:37, ID: 2002535-02 USMPDI-009SC-A-04-05-201112 18.67, Description: USMPDI-009SC-A-04-05-201112

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
1,2,3,4,6,7,8-HpCDD	38.22	2.069e3	1.716e3	1.267e2	1.123e2	1.13	NO	2.390e2	0.15884	0.15884	0.0463

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\201215R2\201215R2_6.qld

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Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
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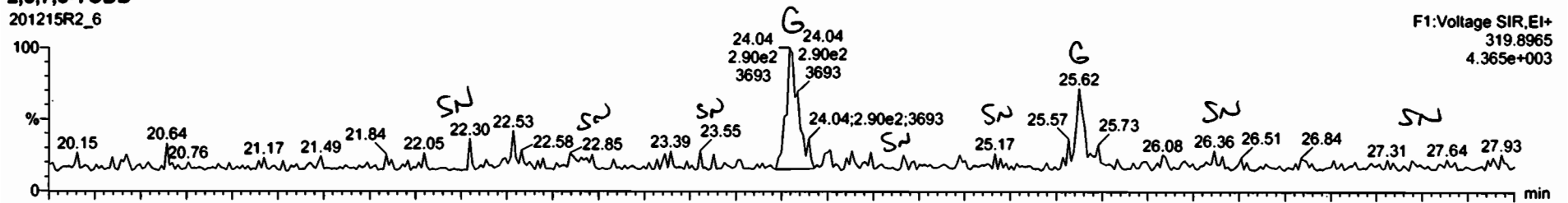
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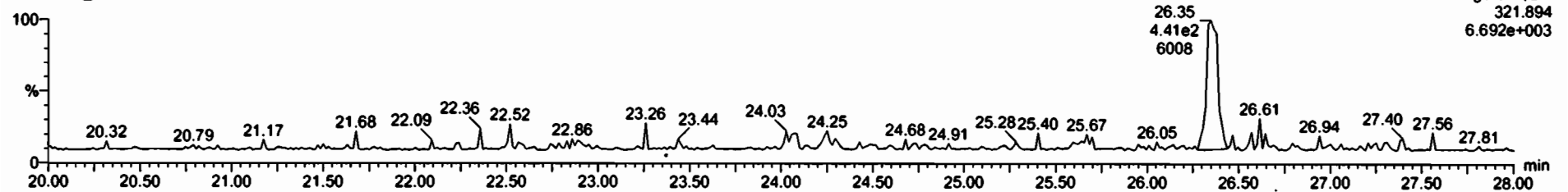
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2,3,7,8-TCDD

201215R2_6

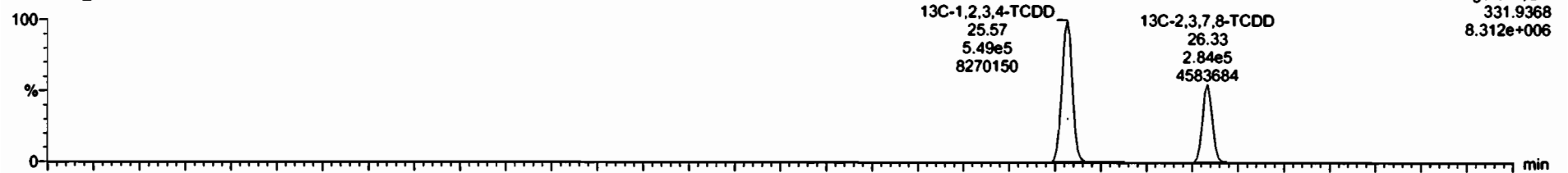


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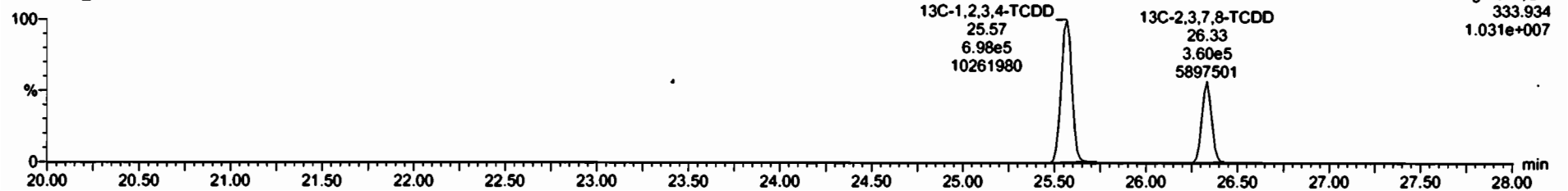


13C-2,3,7,8-TCDD

201215R2_6



201215R2_6



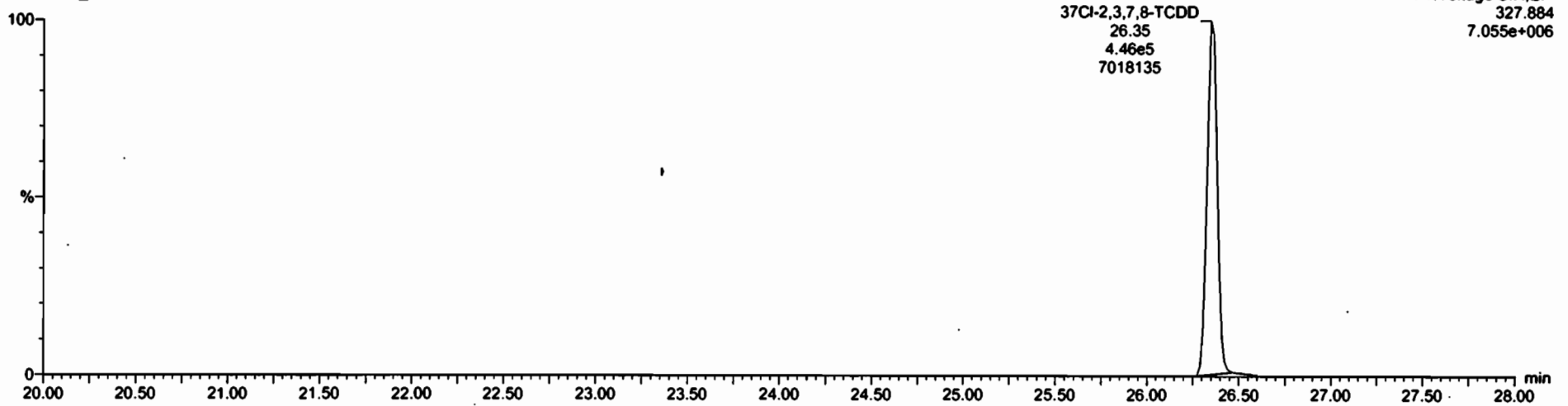
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37Cl-2,3,7,8-TCDD

201215R2_6

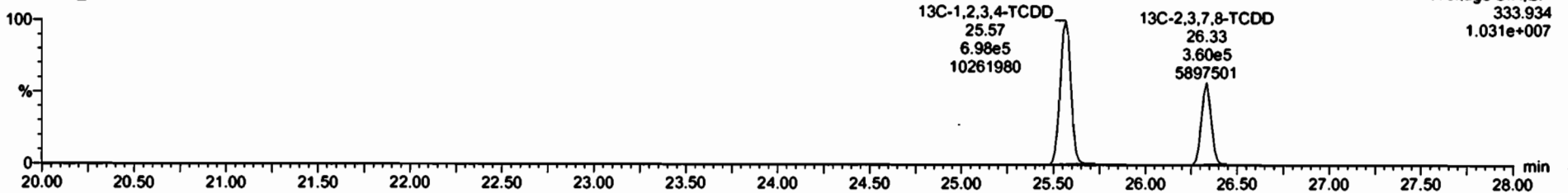


13C-1,2,3,4-TCDD

201215R2_6



201215R2_6



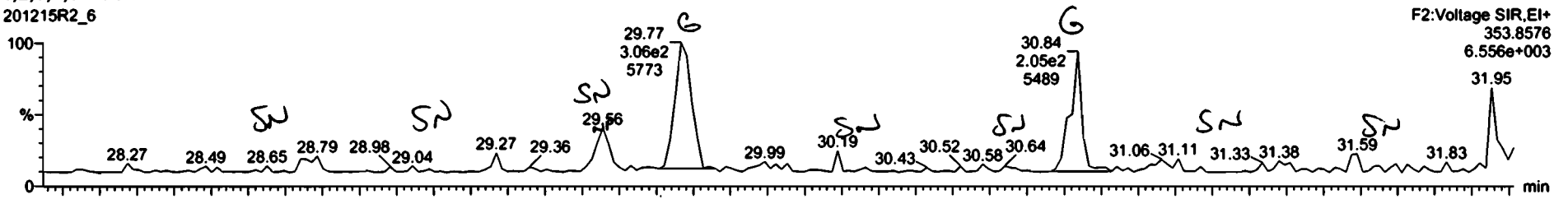
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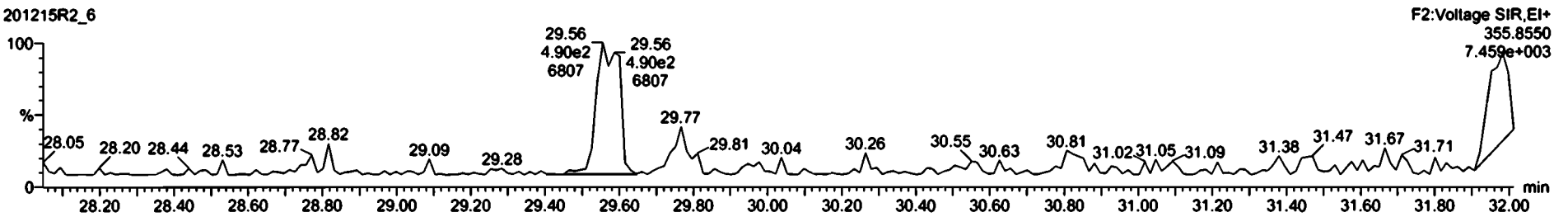
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1,2,3,7,8-PeCDD

201215R2_6



201215R2_6

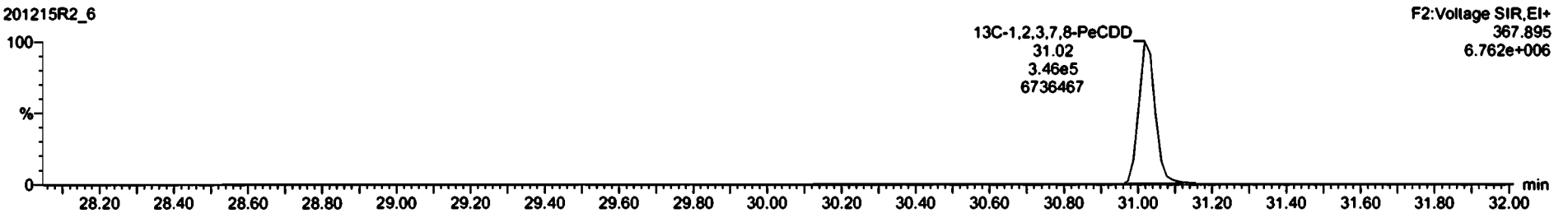


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201215R2_6



201215R2_6



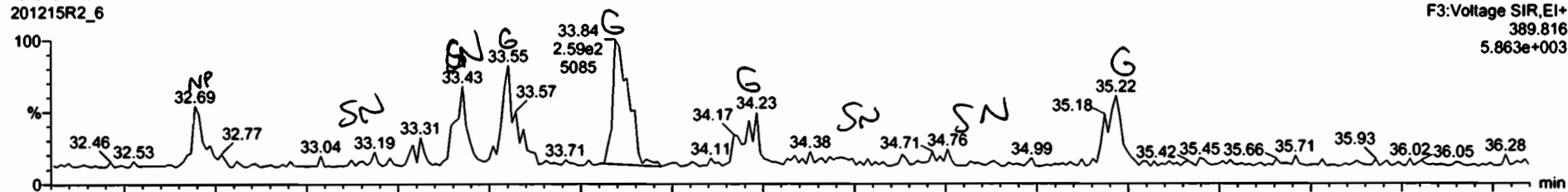
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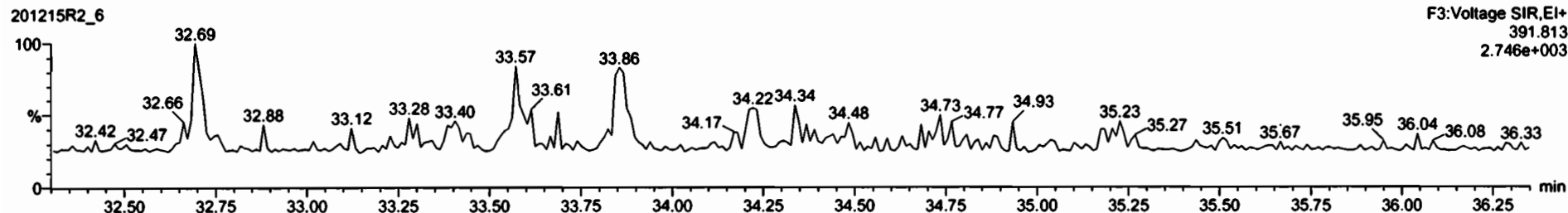
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1,2,3,4,7,8-HxCDD

201215R2_6

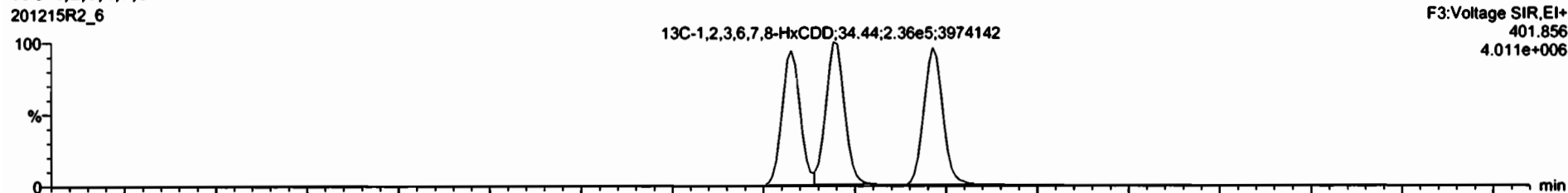


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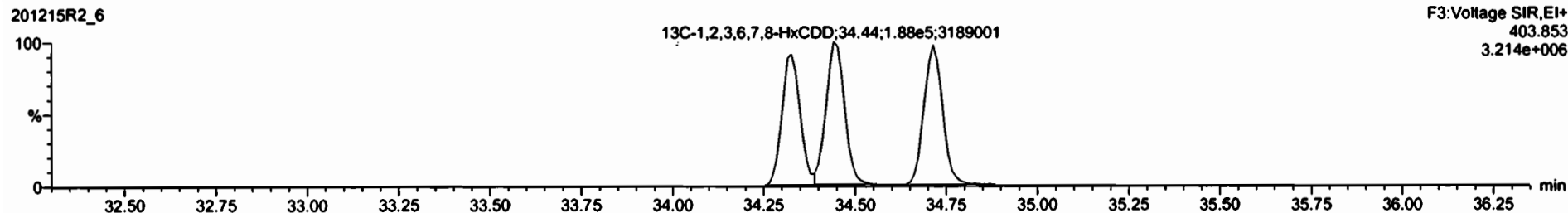


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201215R2_6



201215R2_6



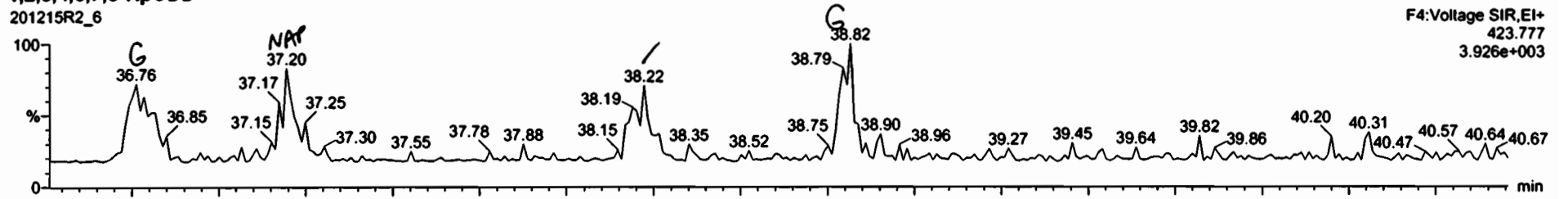
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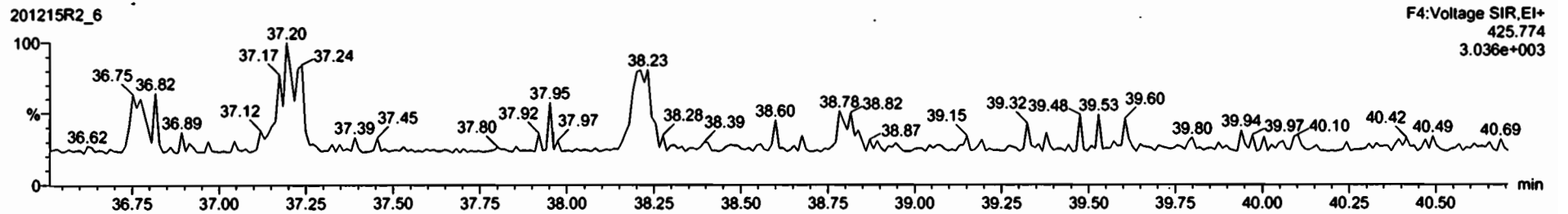
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1,2,3,4,6,7,8-HpCDD

201215R2_6

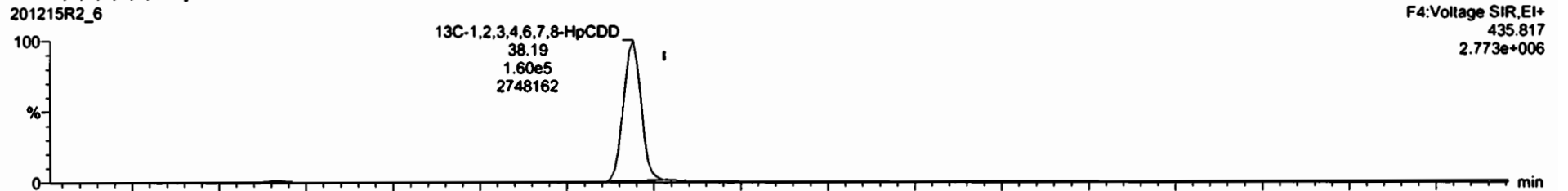


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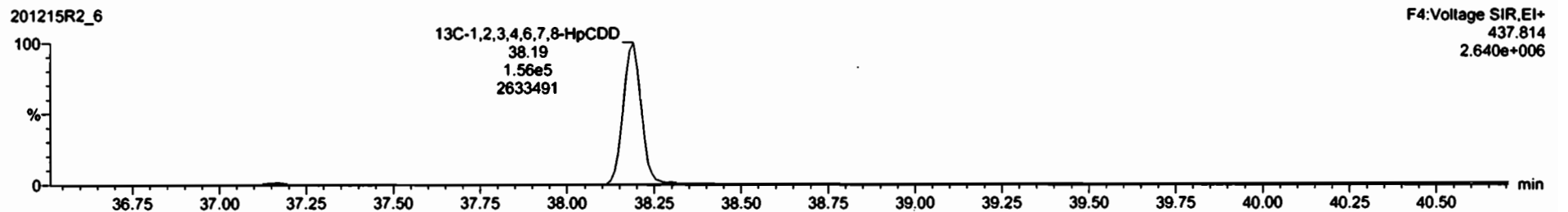


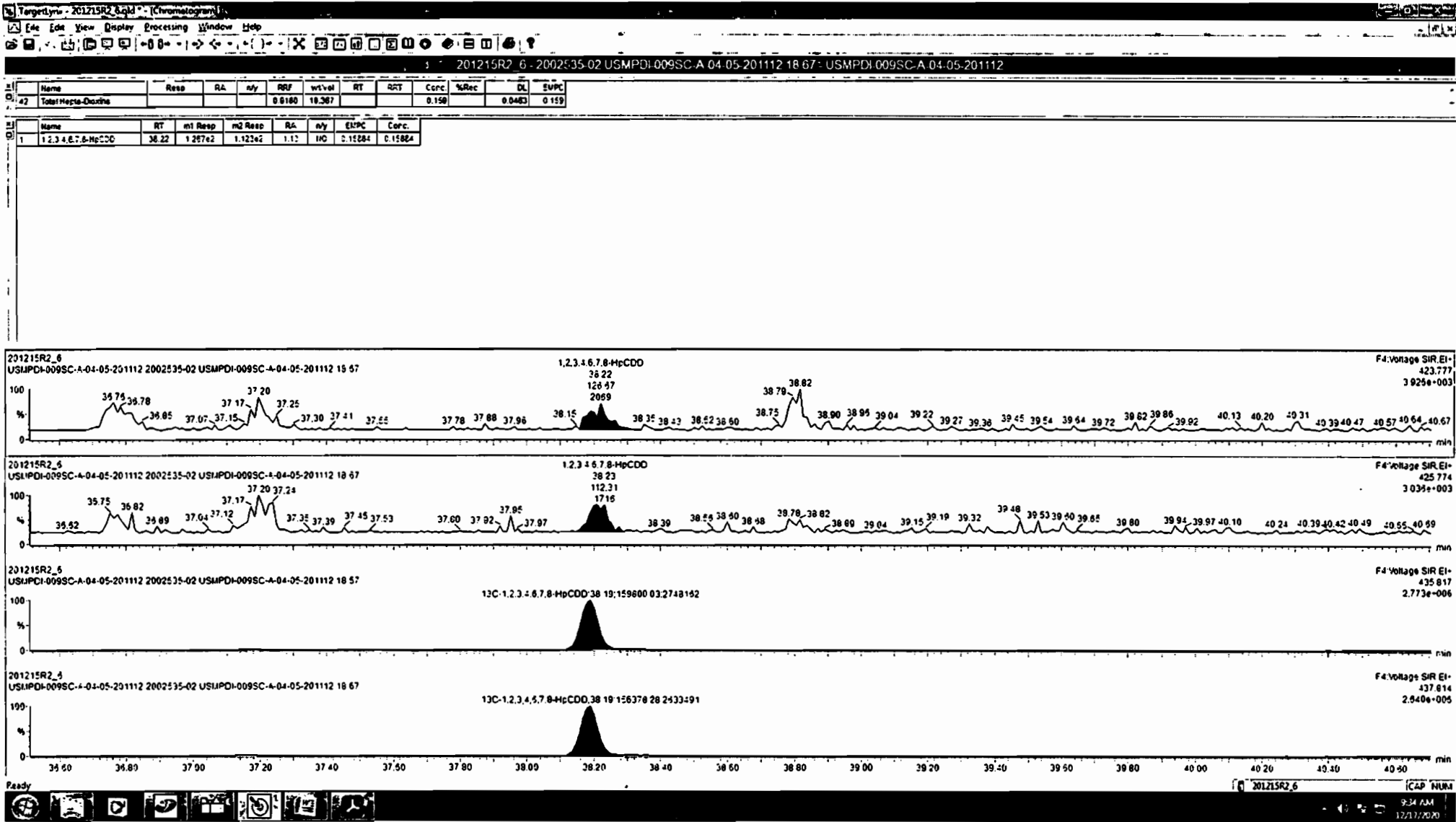
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201215R2_6



201215R2_6

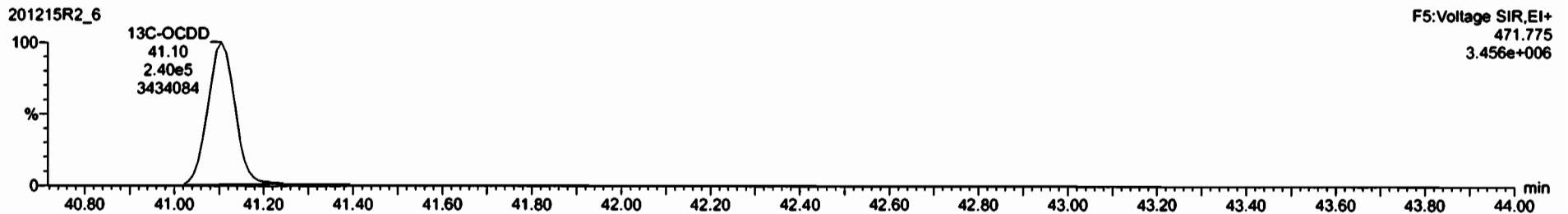
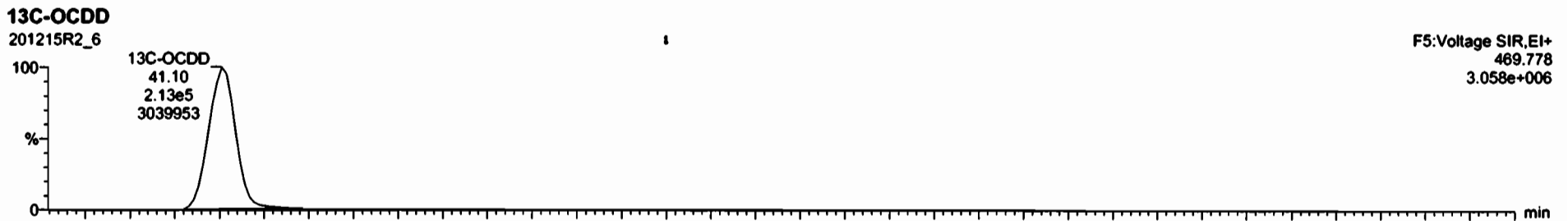
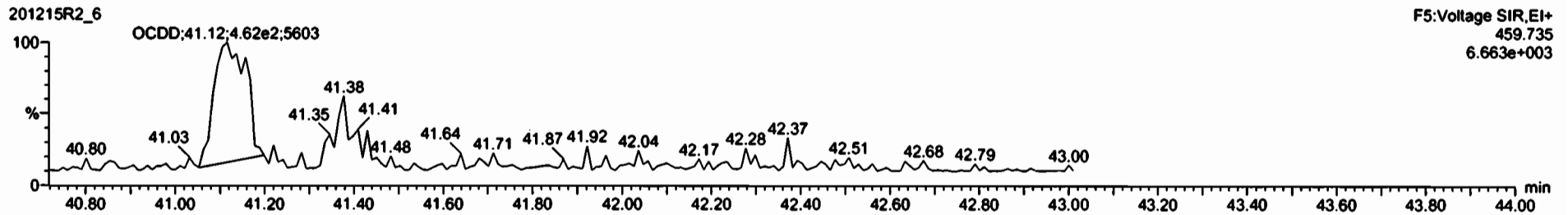
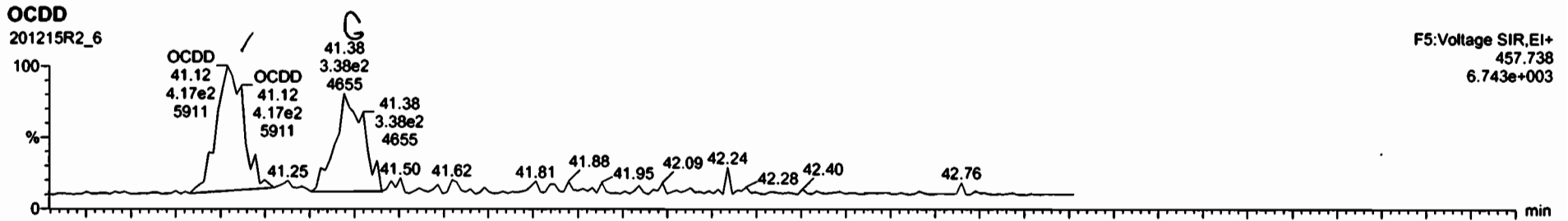


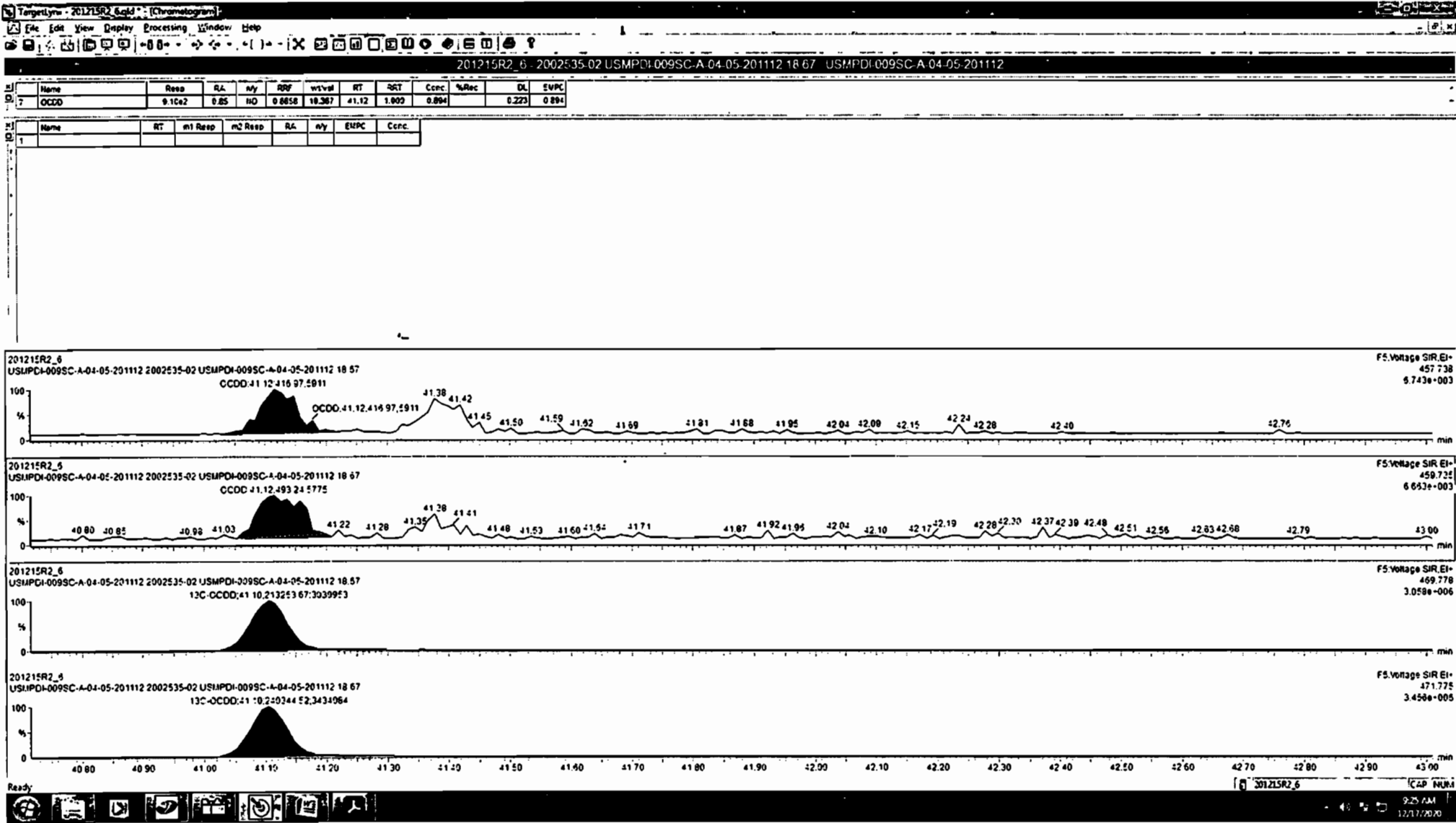


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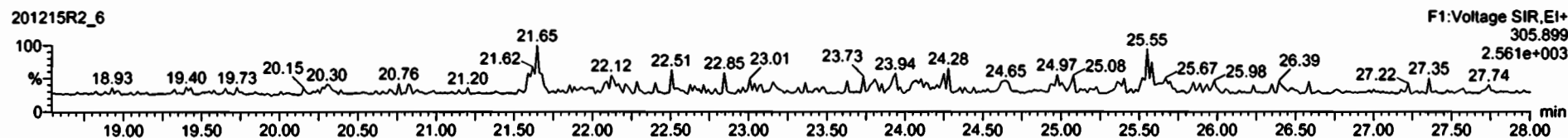
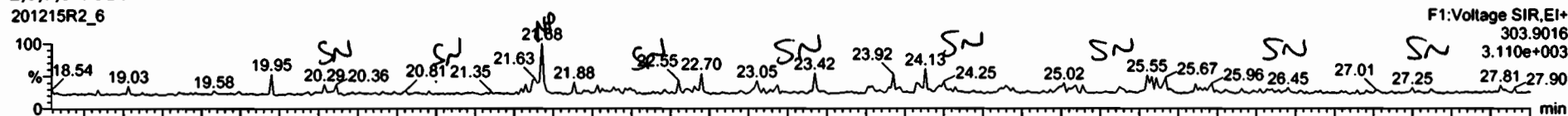


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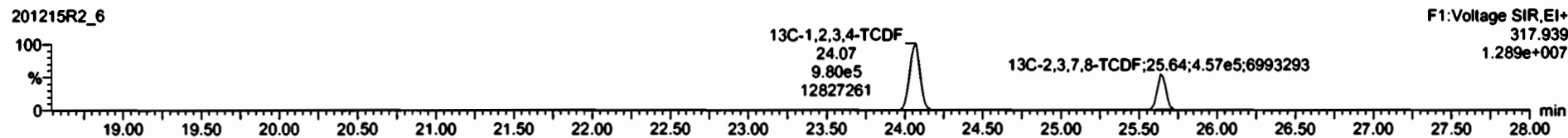
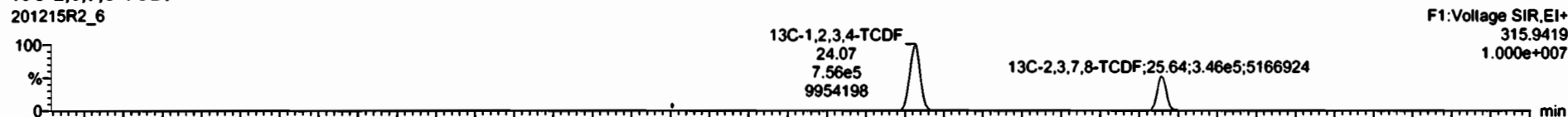
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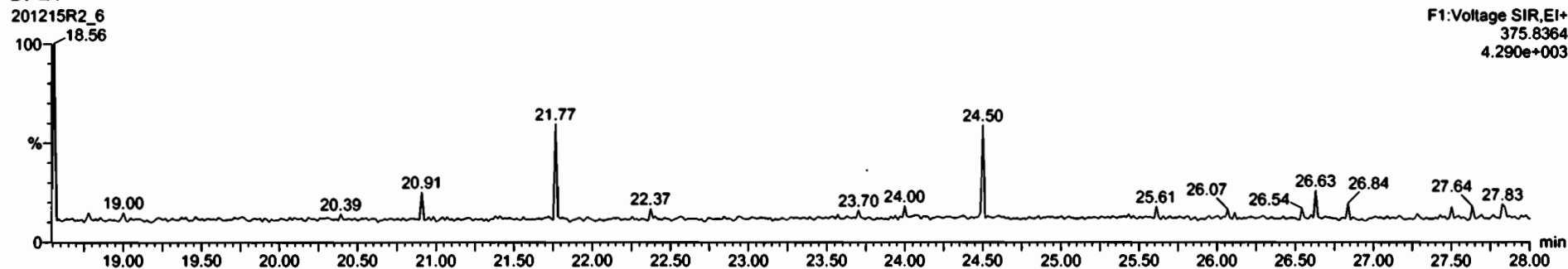
2,3,7,8-TCDF



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



DPE1



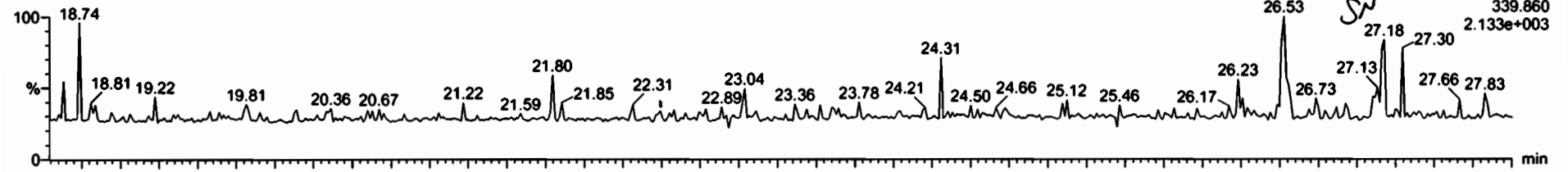
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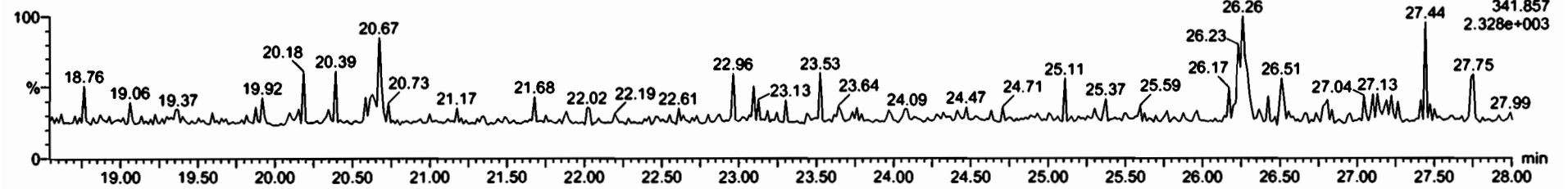
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1st Func. Penta-Furans

201215R2_6

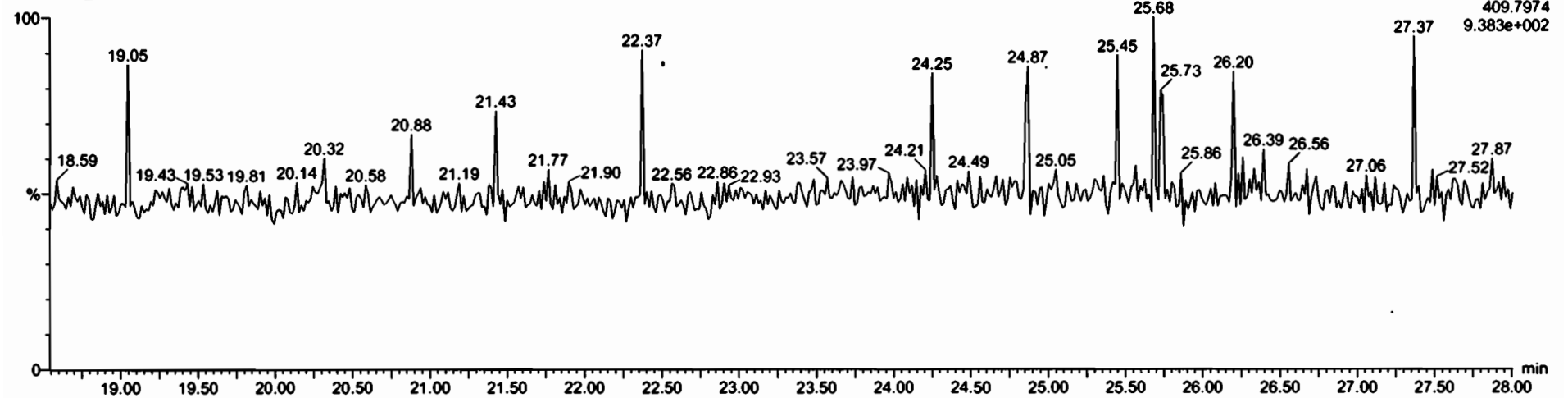


201215R2_6



DPE6

201215R2_6

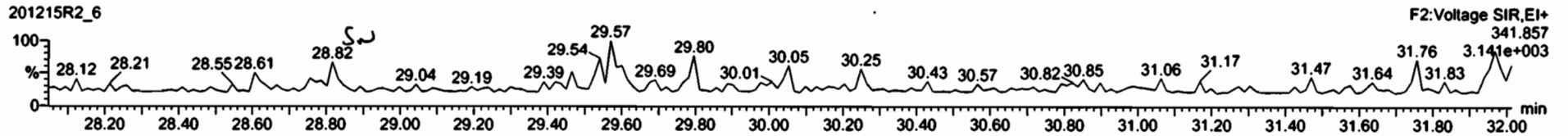
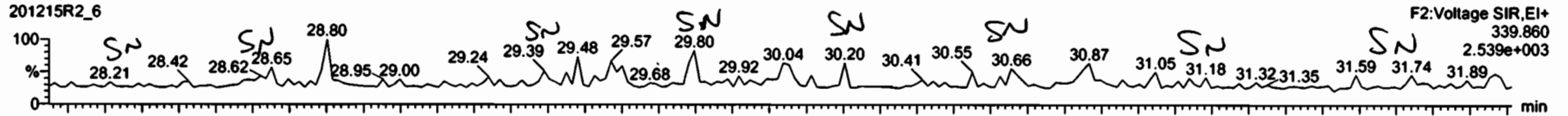


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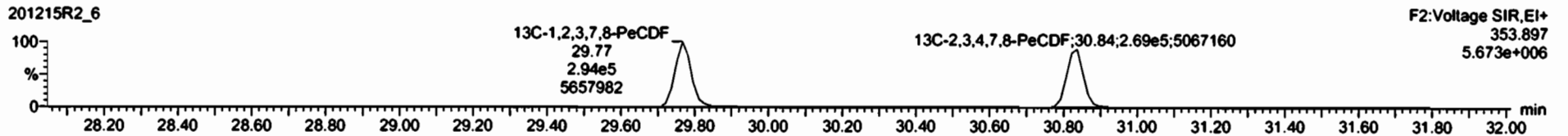
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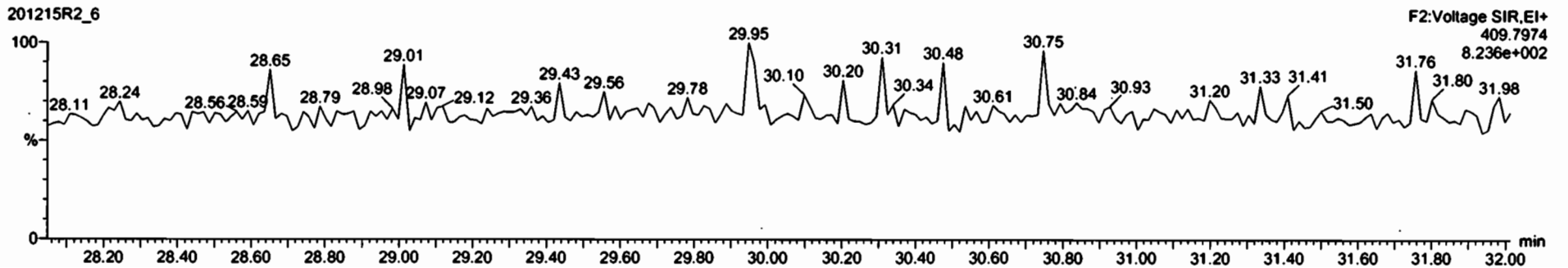
1,2,3,7,8-PeCDF



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



DPE2

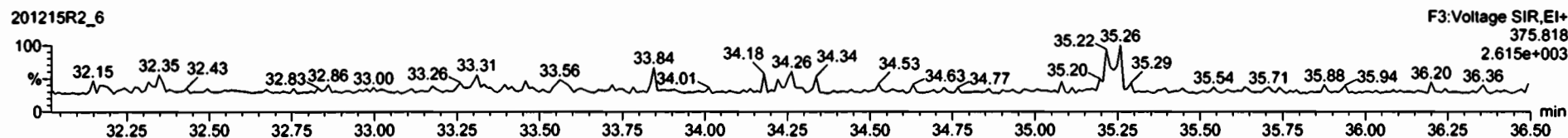
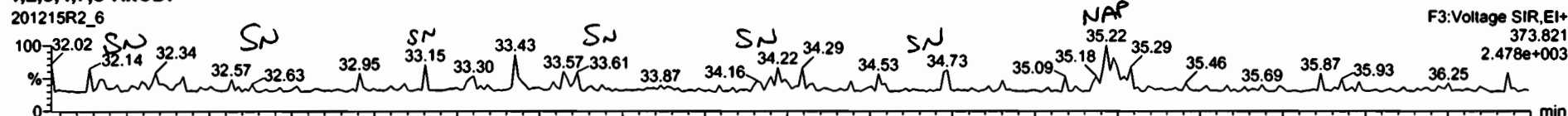


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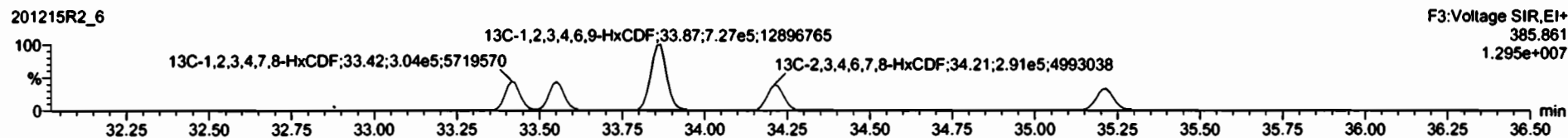
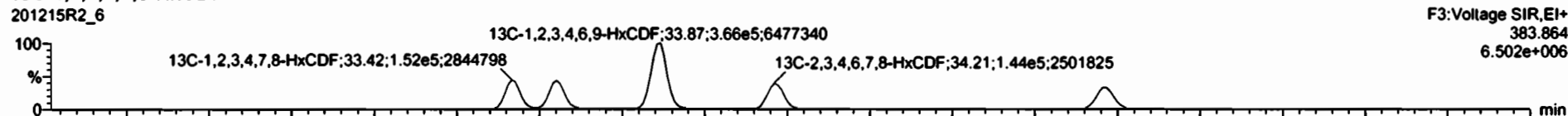
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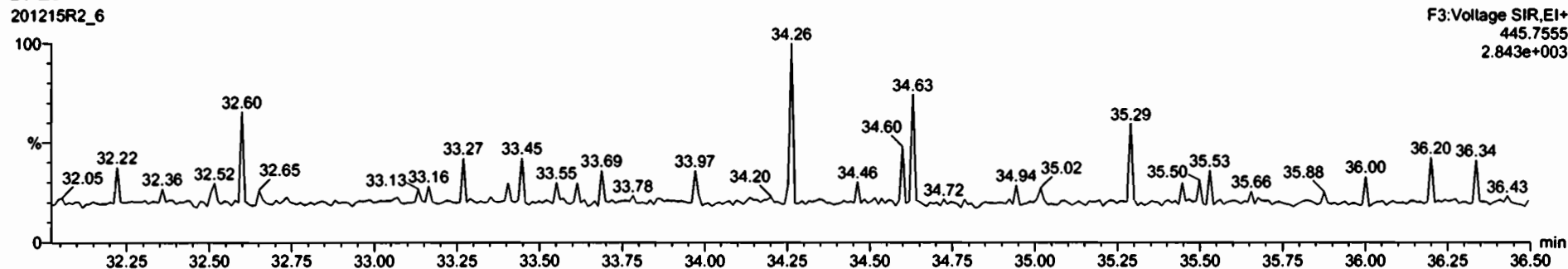
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13C-1,2,3,4,7,8-HxCDF



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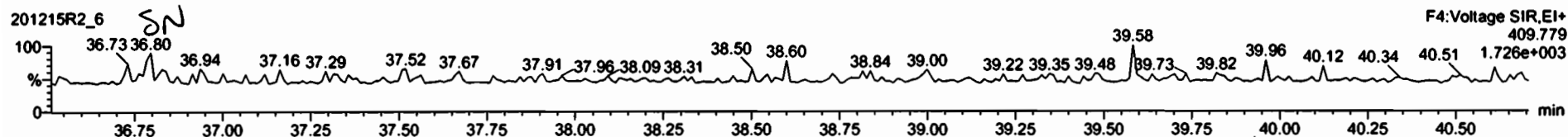
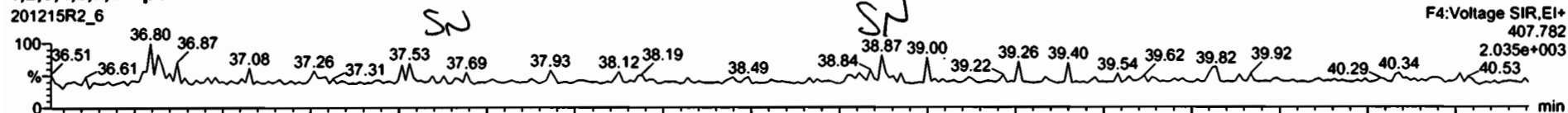


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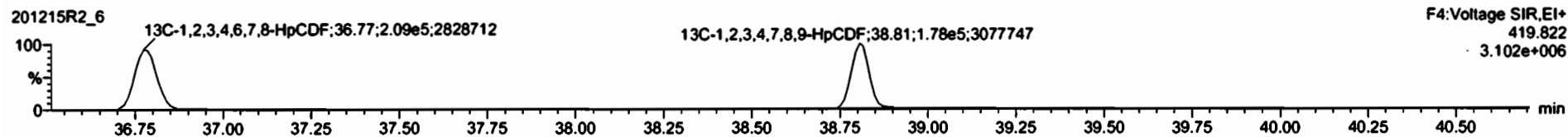
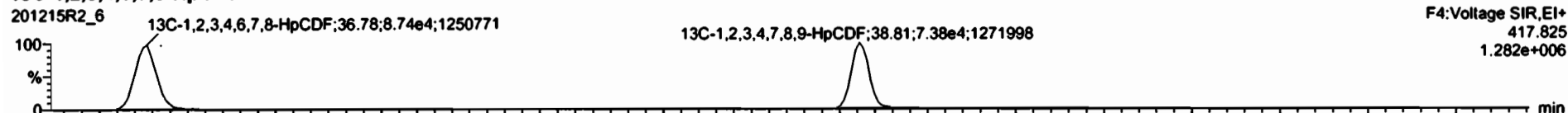
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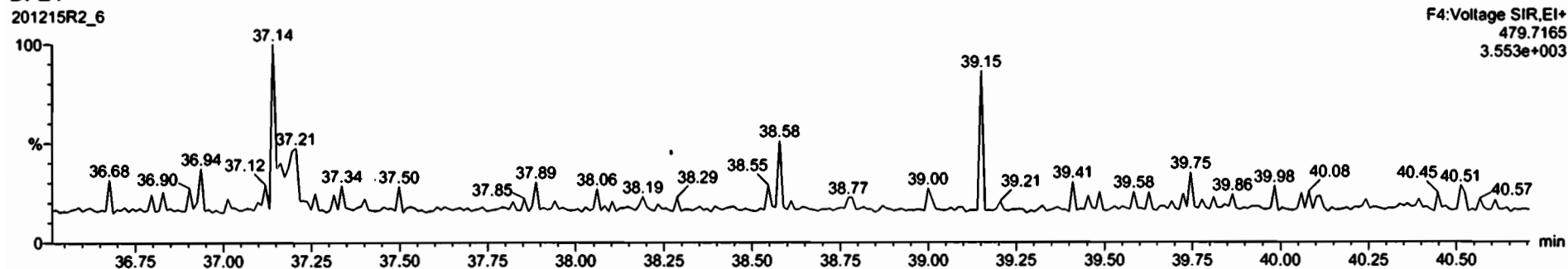
1,2,3,4,6,7,8-HpCDF



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



DPE4

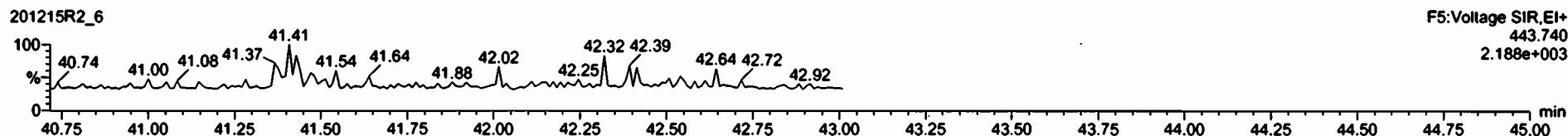
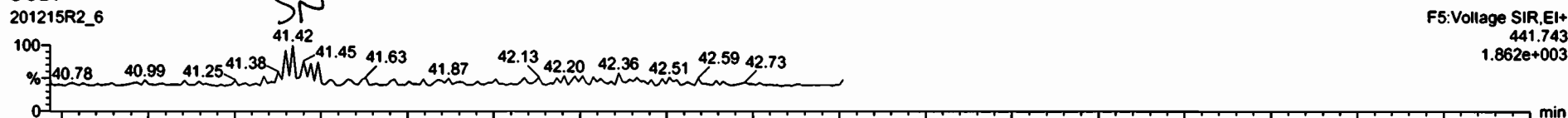


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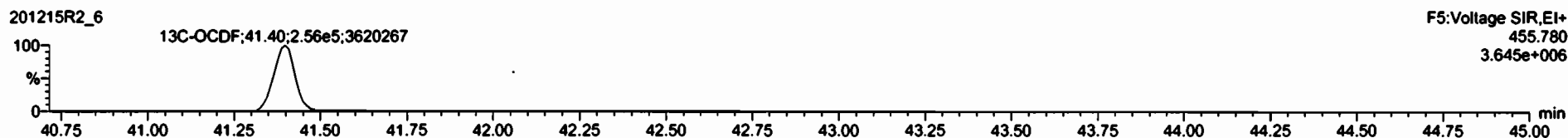
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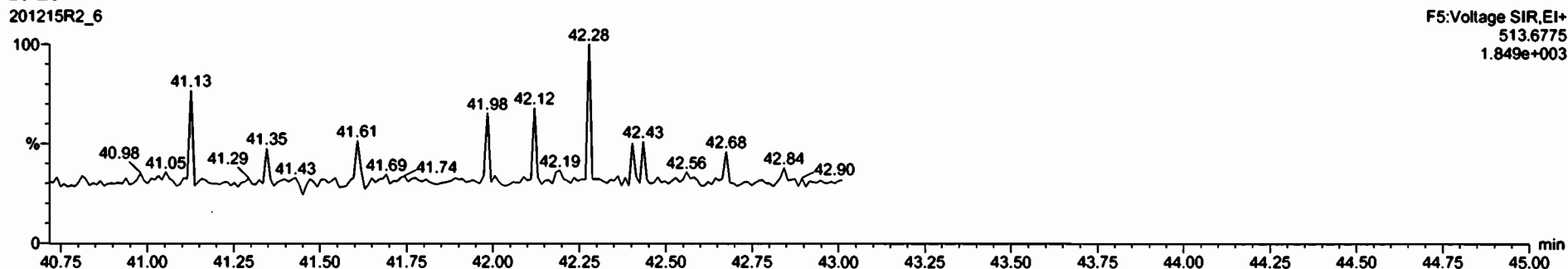
OCDF



13C-OCDF



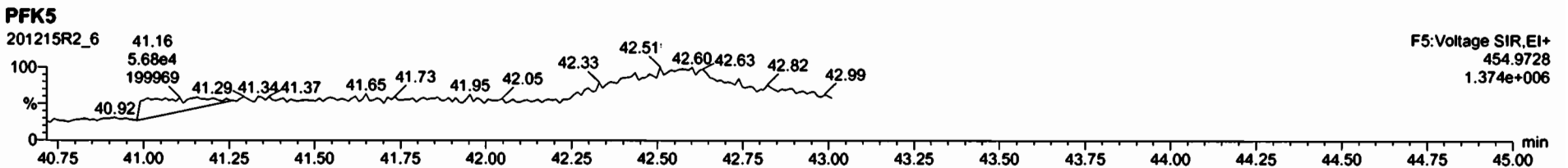
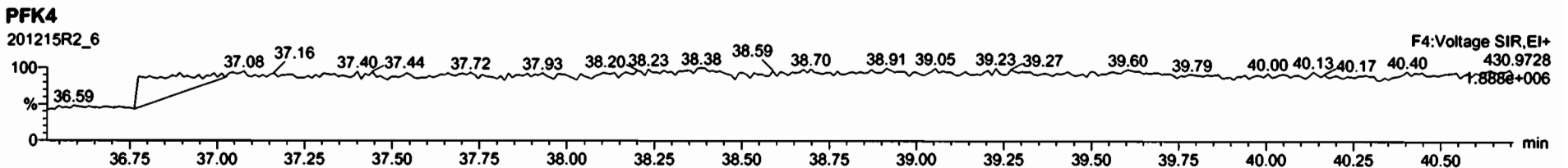
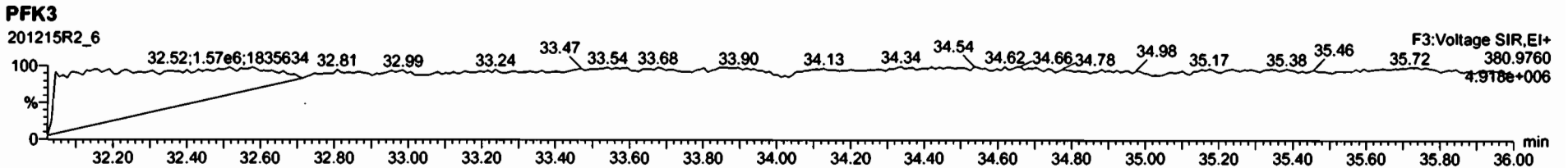
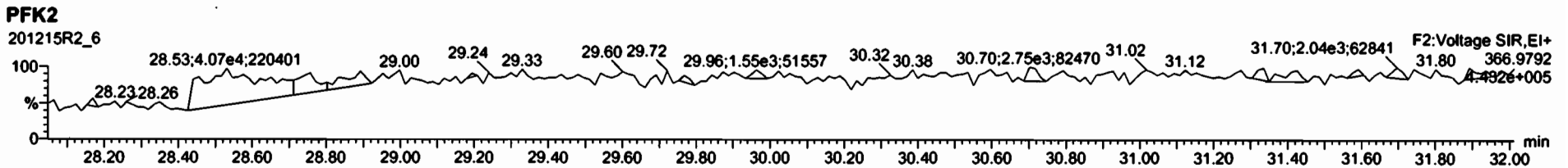
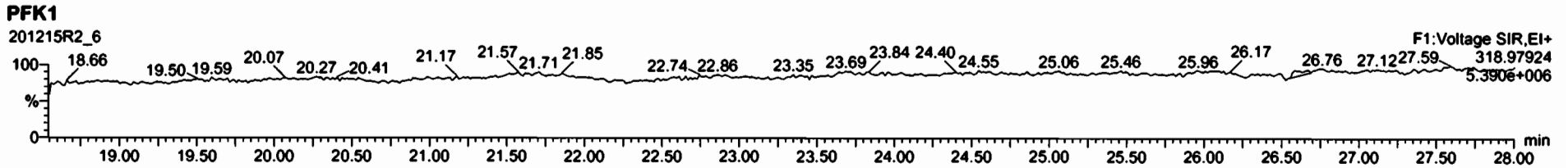
DPE5



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Last Altered: Wednesday, December 16, 2020 7:04:18 AM Pacific Standard Time
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Name: 201215R2_6, Date: 15-Dec-2020, Time: 20:46:37, ID: 2002535-02 USMPDI-009SC-A-04-05-201112 18.67, Description: USMPDI-009SC-A-04-05-201112



Dataset: U:\VG12.PRO\Results\201215R2\201215R2_7.qld

Last Altered: Thursday, December 17, 2020 9:51:04 AM Pacific Standard Time
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GPO 12/17/2020

CT 12/19/2020

Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32
Calibration: U:\VG12.PRO\CurveDB\ldbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201215R2_7, Date: 15-Dec-2020, Time: 21:30:52, ID: 2002535-03 USMPDI-009SC-A-05-06-201112 16.97, Description: USMPDI-009SC-A-05-06-201112

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD			NO	0.980	10.056	26.381		1.001				0.0489	
2	1,2,3,7,8-PeCDD			NO	0.932	10.056	31.064		1.001				0.0529	
3	1,2,3,4,7,8-HxCDD			NO	1.02	10.056	34.358		1.001				0.0656	
4	1,2,3,6,7,8-HxCDD			NO	0.902	10.056	34.484		1.001				0.0700	
5	1,2,3,7,8,9-HxCDD			NO	0.954	10.056	34.734		1.000				0.0678	
6	1,2,3,4,6,7,8-HpCDD	1.14e3	1.05	NO	0.918	10.056	38.211	38.21	1.000	1.000	0.42899		0.0683	0.429
7	OCDD	5.16e3	0.82	NO	0.866	10.056	41.134	41.13	1.000	1.000	2.8181		0.0882	2.82
8	2,3,7,8-TCDF			NO	0.848	10.056	25.657		1.000				0.0345	
9	1,2,3,7,8-PeCDF			NO	0.960	10.056	29.785		1.000				0.0412	
10	2,3,4,7,8-PeCDF			NO	1.07	10.056	30.859		1.001				0.0386	
11	1,2,3,4,7,8-HxCDF			NO	0.986	10.056	33.447		1.000				0.0248	
12	1,2,3,6,7,8-HxCDF			NO	1.04	10.056	33.582		1.001				0.0231	
13	2,3,4,6,7,8-HxCDF			NO	1.02	10.056	34.253		1.001				0.0251	
14	1,2,3,7,8,9-HxCDF	1.70e2	0.85	YES	0.991	10.056	35.238	35.25	1.000	1.001	0.049194		0.0185	0.0409
15	1,2,3,4,6,7,8-HpCDF	1.76e2	1.01	NO	1.05	10.056	36.814	36.81	1.000	1.000	0.061581		0.0173	0.0616
16	1,2,3,4,7,8,9-HpCDF			NO	1.18	10.056	38.828		1.000				0.0257	
17	OCDF	1.49e2	0.65	YES	0.896	10.056	41.427	41.43	1.000	1.000	0.075009		0.0720	0.0637
18	13C-2,3,7,8-TCDD	1.11e6	0.78	NO	1.06	10.056	26.353	26.35	1.030	1.030	187.66	94.4	0.104	
19	13C-1,2,3,7,8-PeCDD	9.76e5	0.62	NO	0.785	10.056	31.192	31.03	1.219	1.213	221.88	112	0.137	
20	13C-1,2,3,4,7,8-HxCDD	6.84e5	1.27	NO	0.621	10.056	34.337	34.34	1.014	1.014	232.00	117	0.412	
21	13C-1,2,3,6,7,8-HxCDD	7.61e5	1.25	NO	0.734	10.056	34.459	34.46	1.017	1.017	218.03	110	0.349	
22	13C-1,2,3,7,8,9-HxCDD	7.44e5	1.24	NO	0.723	10.056	34.743	34.72	1.026	1.025	216.70	109	0.354	
23	13C-1,2,3,4,6,7,8-HpCDD	5.76e5	1.04	NO	0.568	10.056	38.243	38.20	1.129	1.128	213.40	107	0.792	
24	13C-OCDD	8.42e5	0.92	NO	0.496	10.056	41.180	41.13	1.216	1.214	357.16	89.8	0.679	
25	13C-2,3,7,8-TCDF	1.37e6	0.76	NO	0.919	10.056	25.652	25.65	1.003	1.003	189.35	95.2	0.119	
26	13C-1,2,3,7,8-PeCDF	1.31e6	1.56	NO	0.715	10.056	29.903	29.78	1.169	1.164	231.22	116	0.409	
27	13C-2,3,4,7,8-PeCDF	1.21e6	1.57	NO	0.689	10.056	30.990	30.84	1.212	1.206	222.35	112	0.425	
28	13C-1,2,3,4,7,8-HxCDF	8.04e5	0.51	NO	0.873	10.056	33.442	33.44	0.987	0.987	193.70	97.4	0.425	
29	13C-1,2,3,6,7,8-HxCDF	8.03e5	0.51	NO	0.933	10.056	33.571	33.56	0.991	0.991	181.00	91.0	0.398	
30	13C-2,3,4,6,7,8-HxCDF	7.74e5	0.51	NO	0.843	10.056	34.238	34.23	1.011	1.011	193.09	97.1	0.441	
31	13C-1,2,3,7,8,9-HxCDF	6.94e5	0.51	NO	0.780	10.056	35.238	35.23	1.040	1.040	187.23	94.1	0.476	

Dataset: U:\VG12.PRO\Results\201215R2\201215R2_7.qld

Last Altered: Thursday, December 17, 2020 9:51:04 AM Pacific Standard Time
Printed: Thursday, December 17, 2020 9:51:28 AM Pacific Standard Time

Name: 201215R2_7, Date: 15-Dec-2020, Time: 21:30:52, ID: 2002535-03 USMPDI-009SC-A-05-06-201112 16.97, Description: USMPDI-009SC-A-05-06-201112

#	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	5.42e5	0.43	NO	0.726	10.056	36.813	36.80	1.087	1.086	156.88	78.9	0.455	
33	13C-1,2,3,4,7,8,9-HpCDF	4.40e5	0.43	NO	0.491	10.056	38.822	38.82	1.146	1.146	188.61	94.8	0.673	
34	13C-OCDF	8.72e5	0.86	NO	0.565	10.056	41.396	41.42	1.222	1.223	324.35	81.5	0.486	
35	37Cl-2,3,7,8-TCDD	4.78e5			1.22	10.056	26.347	26.36	1.030	1.031	70.120	88.1	0.0303	
36	13C-1,2,3,4-TCDD	1.11e6	0.78	NO	1.00	10.056	25.640	25.58	1.000	1.000	198.88	100	0.110	
37	13C-1,2,3,4-TCDF	1.57e6	0.78	NO	1.00	10.056	24.130	24.07	1.000	1.000	198.88	100	0.110	
38	13C-1,2,3,4,6,9-HxCDF	9.45e5	0.50	NO	1.00	10.056	33.920	33.88	1.000	1.000	198.88	100	0.371	
39	Total Tetra-Dioxins				0.980	10.056	24.620		0.000		0.21132		0.0489	0.211
40	Total Penta-Dioxins				0.932	10.056	29.960		0.000		0.12728		0.0529	0.230
41	Total Hexa-Dioxins				0.902	10.056	33.635		0.000		0.49232		0.0719	0.696
42	Total Hepta-Dioxins				0.918	10.056	37.640		0.000		0.98793		0.0683	0.988
43	Total Tetra-Furans				0.848	10.056	23.610		0.000		0.27813		0.0345	0.278
44	1st Func. Penta-Furans				0.960	10.056	26.930		0.000				0.00631	
45	Total Penta-Furans				0.960	10.056	29.275		0.000				0.0179	
46	Total Hexa-Furans				1.02	10.056	33.555		0.000		0.00000		0.0152	0.0863
47	Total Hepta-Furans				1.05	10.056	37.835		0.000		0.061581		0.0169	0.0616

Dataset: U:\VG12.PRO\Results\201215R2\201215R2_7.qld

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 Printed: Thursday, December 17, 2020 9:51:28 AM Pacific Standard Time

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 Calibration: U:\VG12.PRO\CurveDB\1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201215R2_7, Date: 15-Dec-2020, Time: 21:30:52, ID: 2002535-03 USMPDI-009SC-A-05-06-201112 16.97, Description: USMPDI-009SC-A-05-06-201112

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 Total Tetra-Dioxins	22.55	4.009e3	3.801e3	3.025e2	3.600e2	0.84	NO	6.626e2	0.12105	0.12105	0.0489
2 Total Tetra-Dioxins	22.89	3.219e3	3.541e3	2.192e2	2.750e2	0.80	NO	4.941e2	0.090272	0.090272	0.0489

Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 Total Penta-Dioxins	28.79	3.078e3	5.466e3	2.334e2	3.487e2	0.67	NO	5.821e2	0.12728	0.12728	0.0529
2 Total Penta-Dioxins	29.80	7.271e3	5.361e3	4.679e2	2.884e2	1.62	YES	0.000e0	0.00000	0.10280	0.0529

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 Total Hexa-Dioxins	32.71	1.299e4	8.471e3	5.276e2	4.037e2	1.31	NO	9.313e2	0.28119	0.28119	0.0719
2 Total Hexa-Dioxins	33.31	8.188e3	6.203e3	4.034e2	2.958e2	1.36	NO	6.993e2	0.21113	0.21113	0.0719
3 Total Hexa-Dioxins	33.58	5.934e3	4.618e3	5.335e2	3.017e2	1.77	YES	0.000e0	0.00000	0.20402	0.0719

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 Total Hepta-Dioxins	37.19	9.503e3	1.146e4	6.973e2	7.887e2	0.88	NO	1.486e3	0.55894	0.55894	0.0683
2 1,2,3,4,6,7,8-HpCDD	38.21	1.036e4	1.126e4	5.853e2	5.553e2	1.05	NO	1.141e3	0.42899	0.42899	0.0683

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 Total Tetra-Furans	21.62	9.249e3	9.910e3	7.274e2	9.015e2	0.81	NO	1.629e3	0.27813	0.27813	0.0345

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201215R2\201215R2_7.qld

Last Altered: Thursday, December 17, 2020 9:51:04 AM Pacific Standard Time

Printed: Thursday, December 17, 2020 9:51:28 AM Pacific Standard Time

Name: 201215R2_7, Date: 15-Dec-2020, Time: 21:30:52, ID: 2002535-03 USMPDI-009SC-A-05-06-201112 16.97, Description: USMPDI-009SC-A-05-06-201112

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 Total Hexa-Furans	32.35	1.493e3	1.969e3	7.434e1	7.866e1	0.95	YES	0.000e0	0.00000	0.034050	0.0152
2 1,2,3,7,8,9-HxCDF	35.25	2.222e3	2.494e3	7.823e1	9.192e1	0.85	YES	1.701e2	0.00000	0.040859	0.0185
3 Total Hexa-Furans	35.26	1.755e3	5.680e2	3.298e1	2.005e1	1.64	YES	0.000e0	0.00000	0.011390	0.0152

Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 1,2,3,4,6,7,8-HpCDF	36.81	1.651e3	1.306e3	8.862e1	8.738e1	1.01	NO	1.760e2	0.061581	0.061581	0.0173

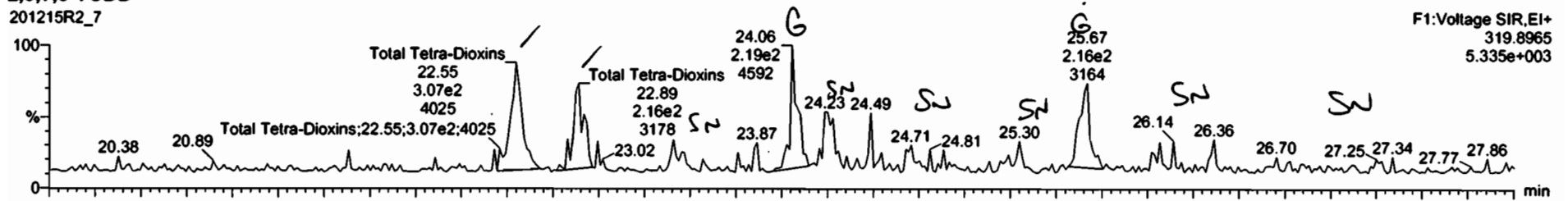
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Name: 201215R2_7, Date: 15-Dec-2020, Time: 21:30:52, ID: 2002535-03 USMPDI-009SC-A-05-06-201112 16.97, Description: USMPDI-009SC-A-05-06-201112

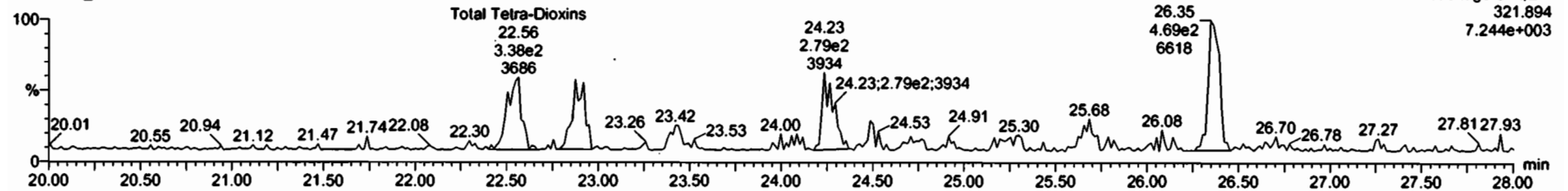
2,3,7,8-TCDD

201215R2_7



F1:Voltage SIR,EI+
319.8965
5.335e+003

201215R2_7



F1:Voltage SIR,EI+
321.894
7.244e+003

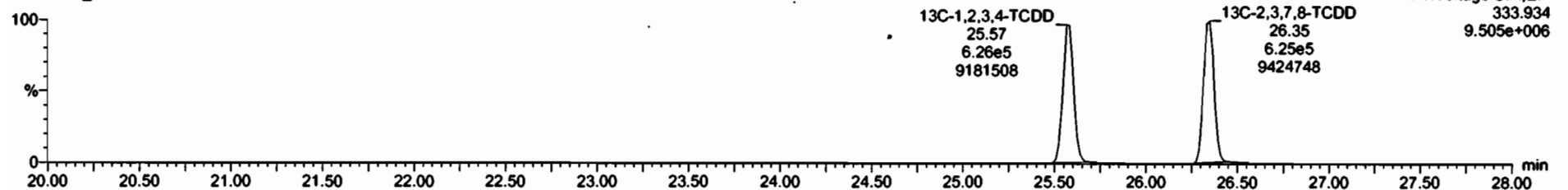
13C-2,3,7,8-TCDD

201215R2_7

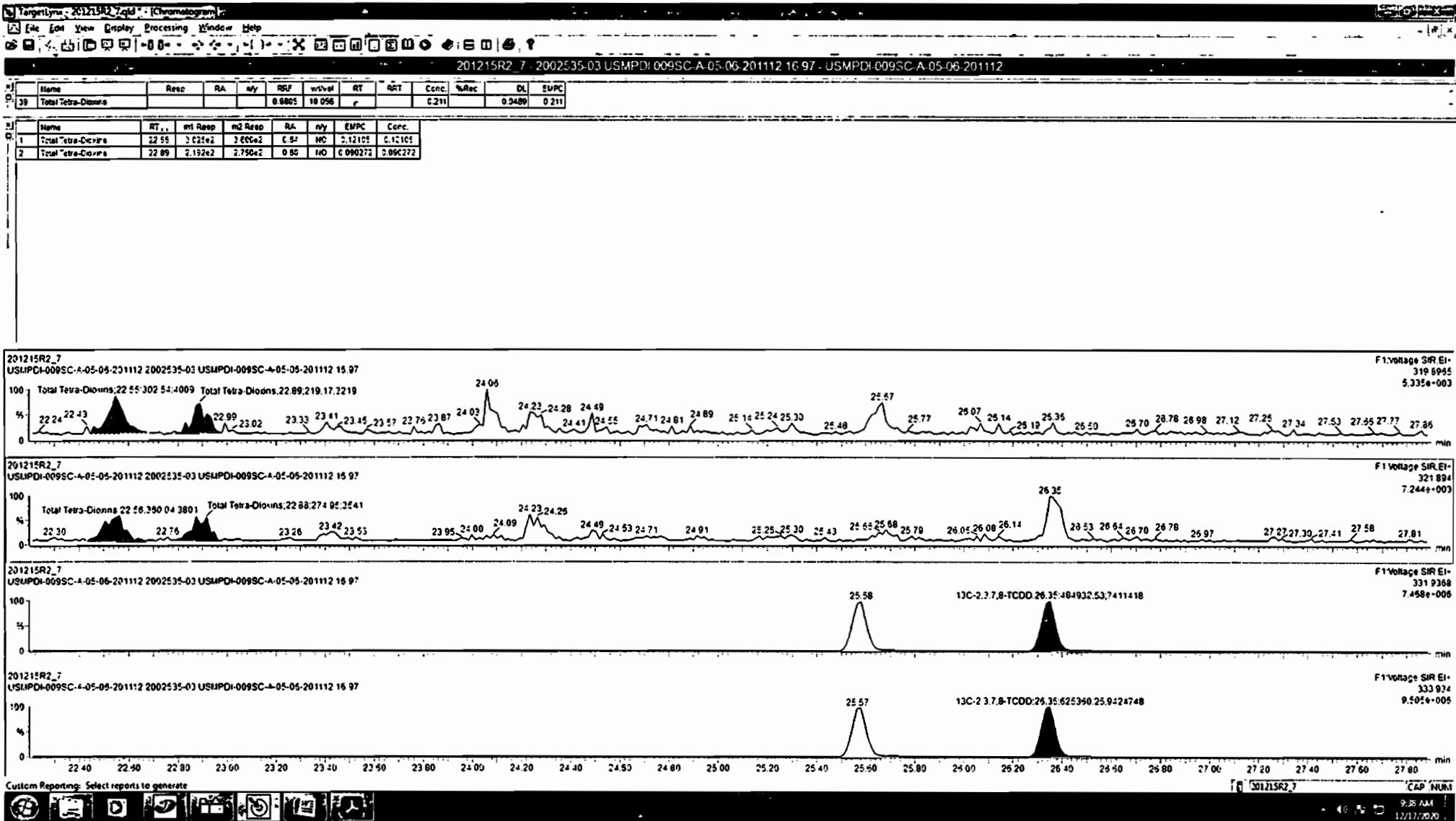


F1:Voltage SIR,EI+
331.9368
7.468e+006

201215R2_7



F1:Voltage SIR,EI+
333.934
9.505e+006



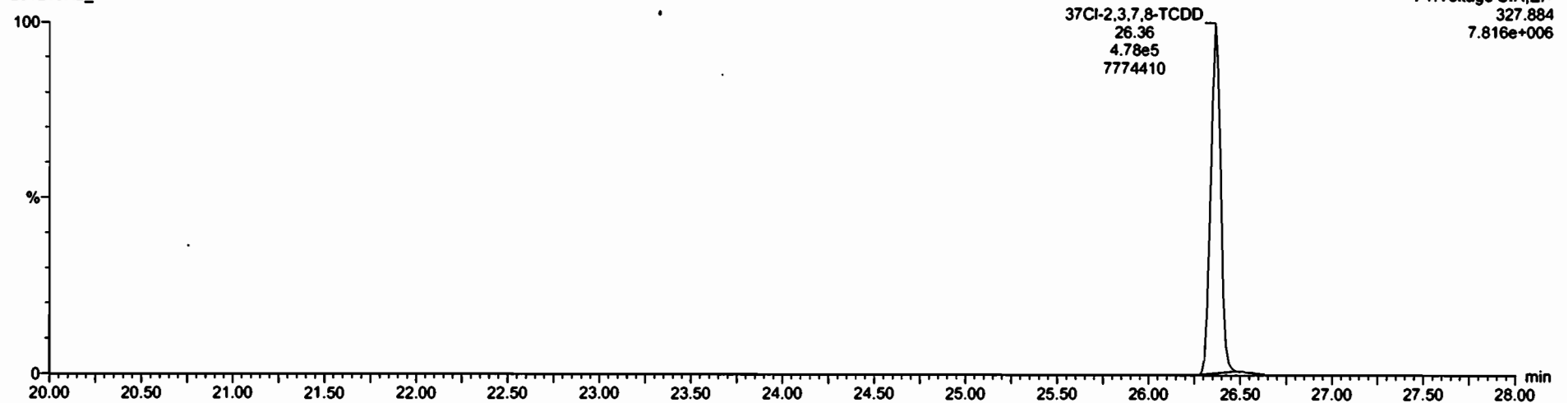
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37Cl-2,3,7,8-TCDD

201215R2_7

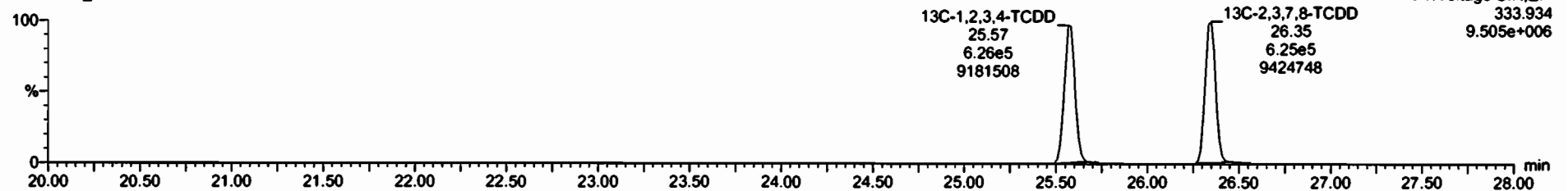


13C-1,2,3,4-TCDD

201215R2_7



201215R2_7



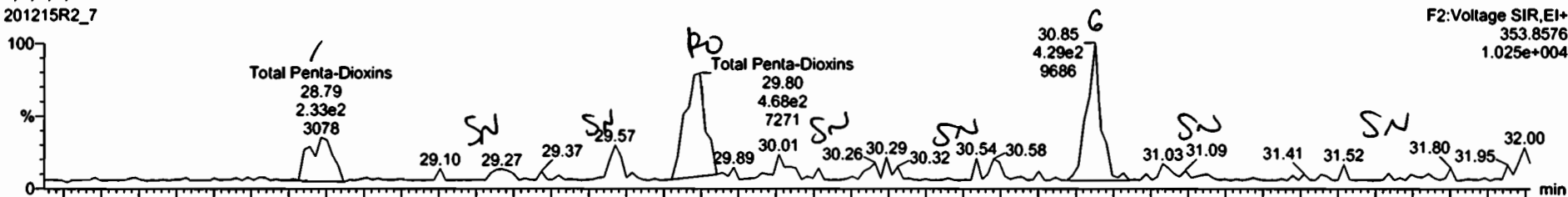
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Name: 201215R2_7, Date: 15-Dec-2020, Time: 21:30:52, ID: 2002535-03 USMPDI-009SC-A-05-06-201112 16.97, Description: USMPDI-009SC-A-05-06-201112

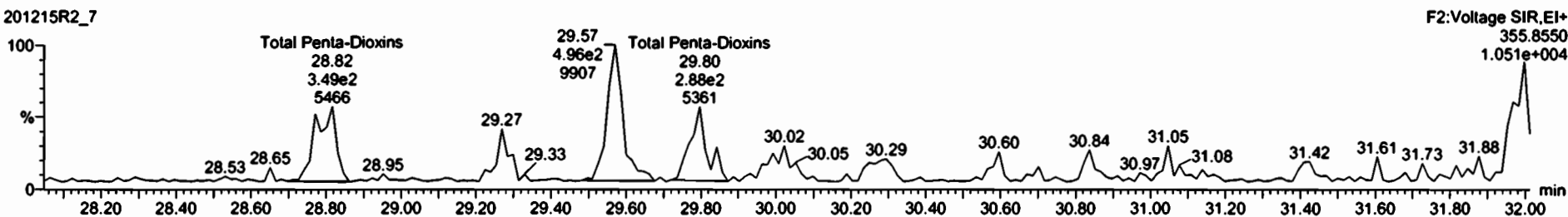
1,2,3,7,8-PeCDD

201215R2_7



F2:Voltage SIR,EI+
353.8576
1.025e+004

201215R2_7



F2:Voltage SIR,EI+
355.8550
1.051e+004

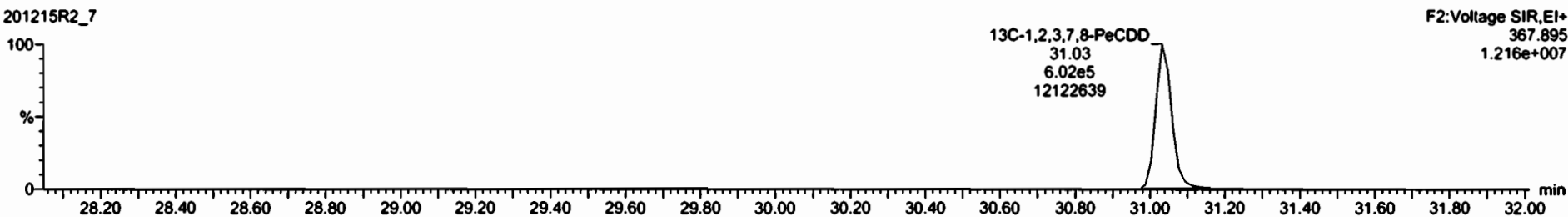
13C-1,2,3,7,8-PeCDD

201215R2_7



F2:Voltage SIR,EI+
365.8978
7.610e+006

201215R2_7



F2:Voltage SIR,EI+
367.895
1.216e+007

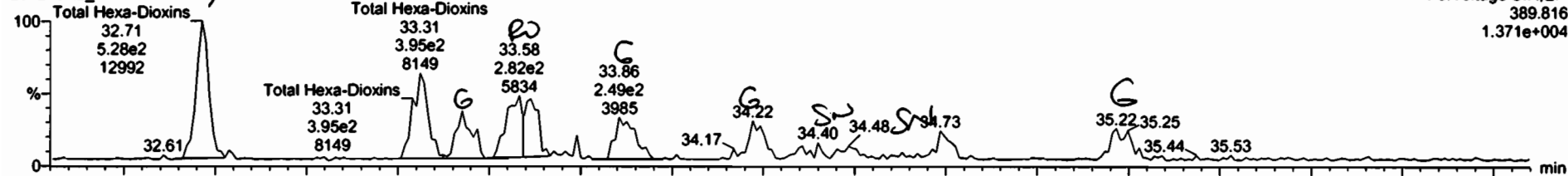
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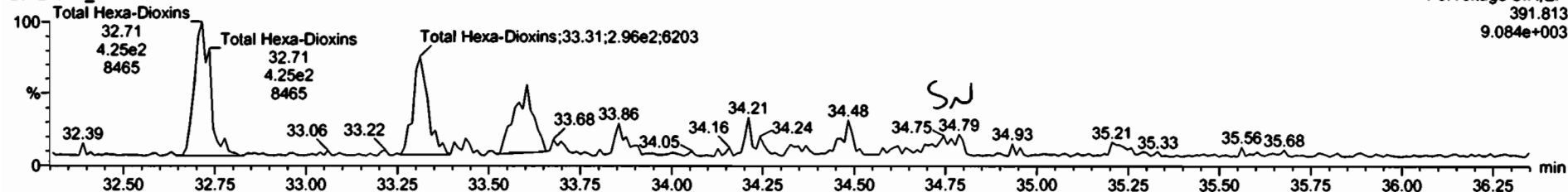
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1,2,3,4,7,8-HxCDD

201215R2_7

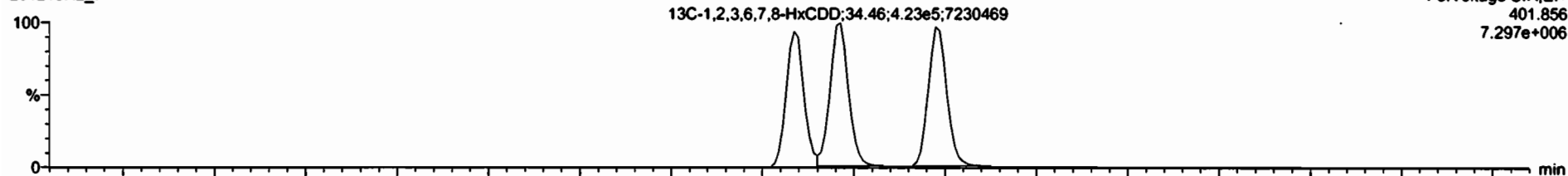


201215R2_7

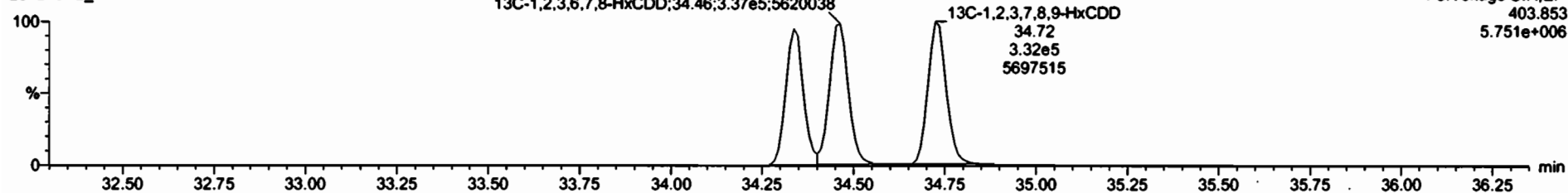


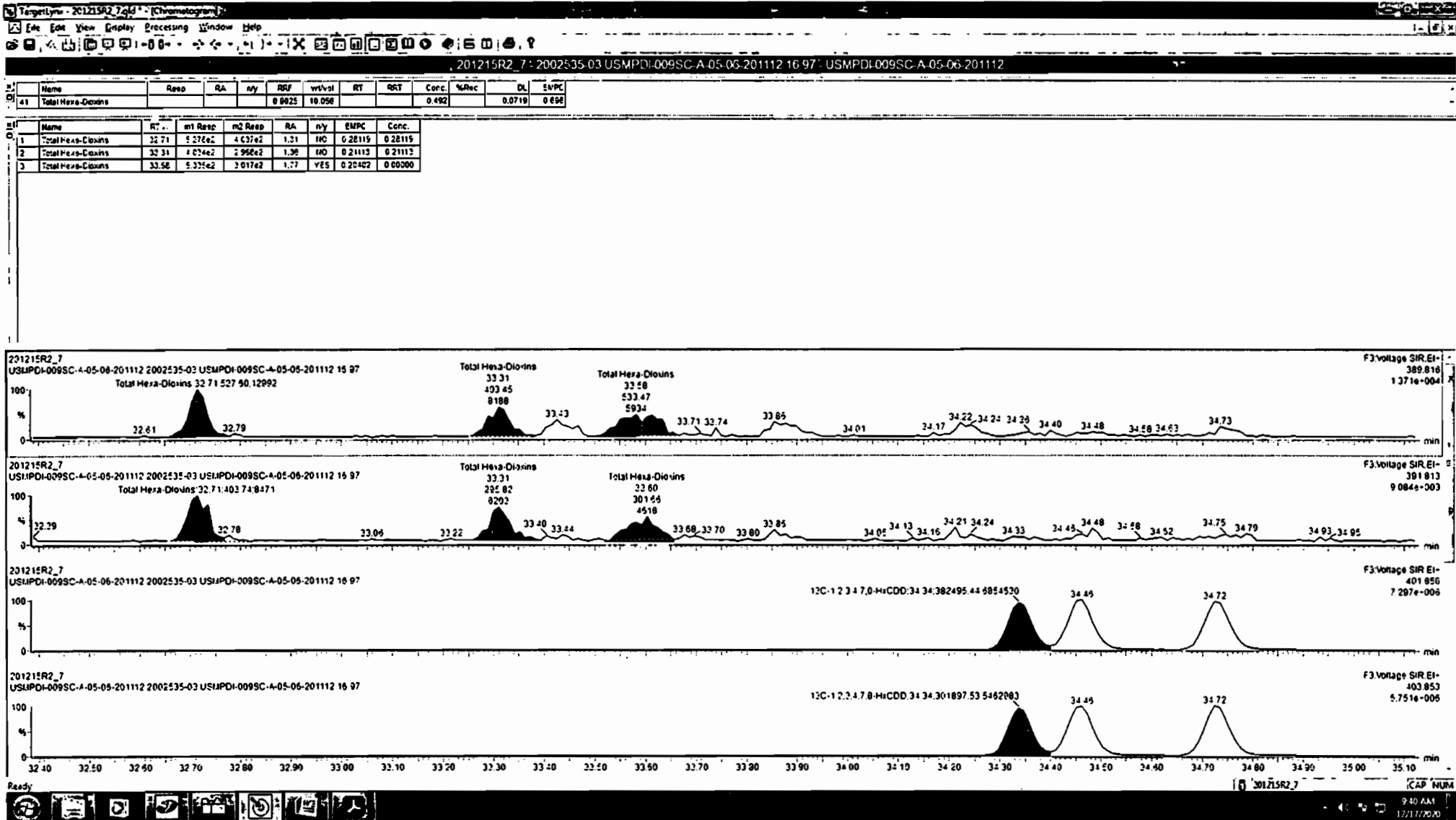
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201215R2_7



201215R2_7





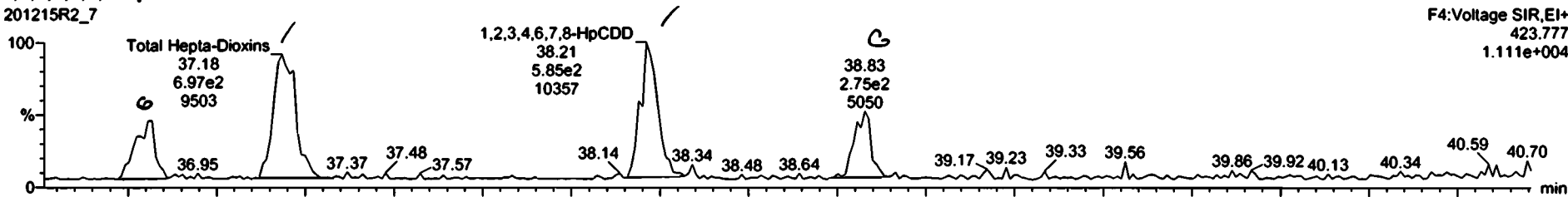
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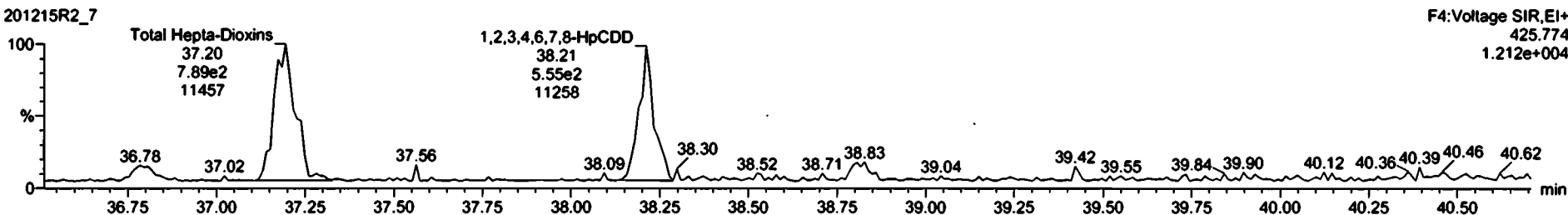
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1,2,3,4,6,7,8-HpCDD

201215R2_7

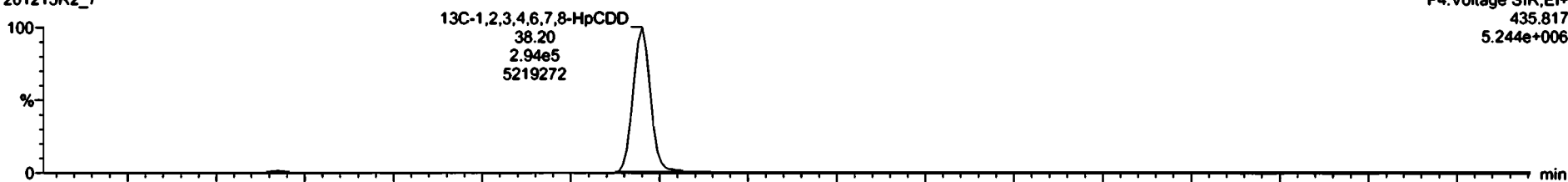


201215R2_7

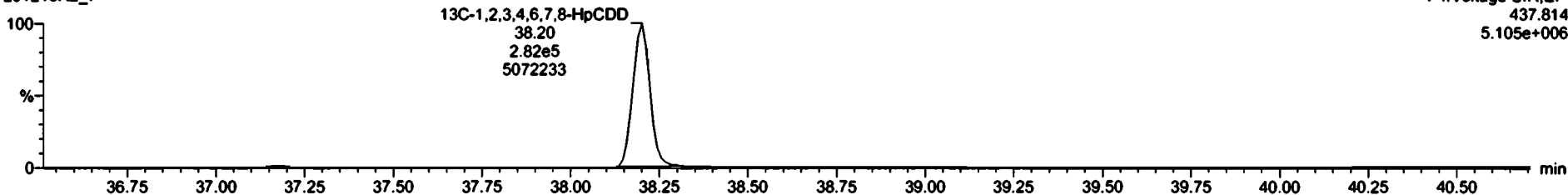


13C-1,2,3,4,6,7,8-HpCDD

201215R2_7



201215R2_7



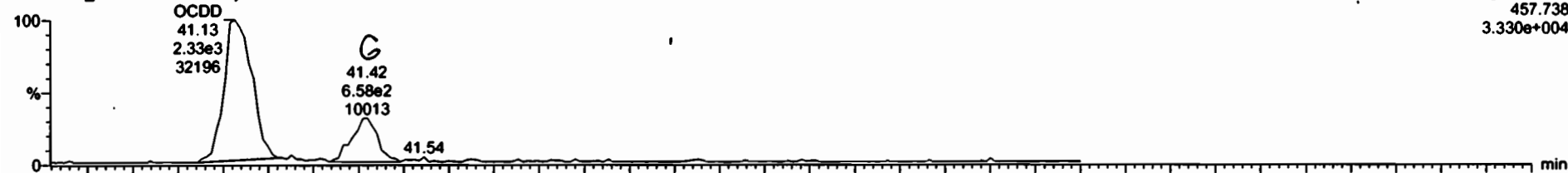
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Last Altered: Wednesday, December 16, 2020 7:04:18 AM Pacific Standard Time
Printed: Wednesday, December 16, 2020 7:06:08 AM Pacific Standard Time

Name: 201215R2_7, Date: 15-Dec-2020, Time: 21:30:52, ID: 2002535-03 USMPDI-009SC-A-05-06-201112 16.97, Description: USMPDI-009SC-A-05-06-201112

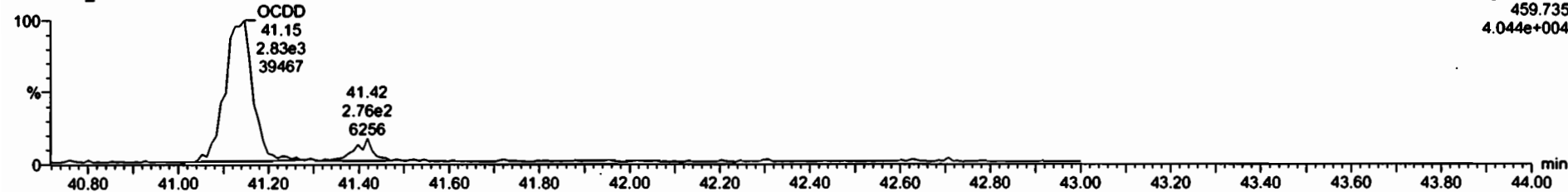
OCDD

201215R2_7



F5:Voltage SIR,EI+
457.738
3.330e+004

201215R2_7



F5:Voltage SIR,EI+
459.735
4.044e+004

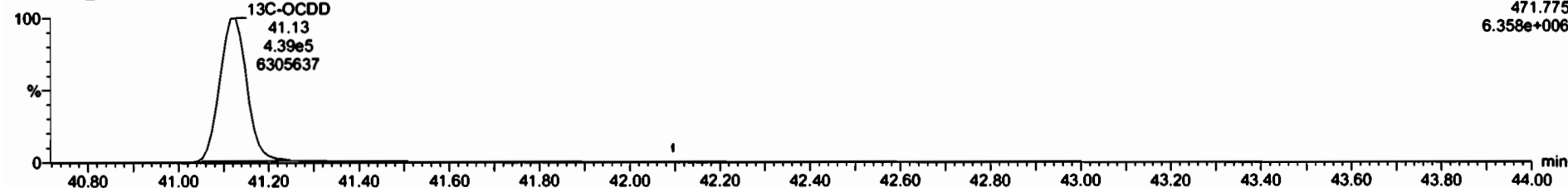
13C-OCDD

201215R2_7



F5:Voltage SIR,EI+
469.778
5.835e+006

201215R2_7



F5:Voltage SIR,EI+
471.775
6.358e+006

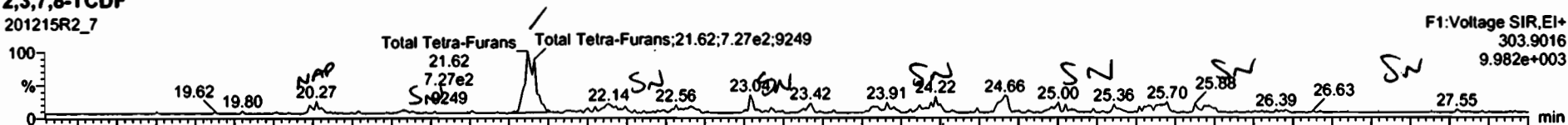
Dataset: Untitled

Last Altered: Wednesday, December 16, 2020 7:04:18 AM Pacific Standard Time
Printed: Wednesday, December 16, 2020 7:06:08 AM Pacific Standard Time

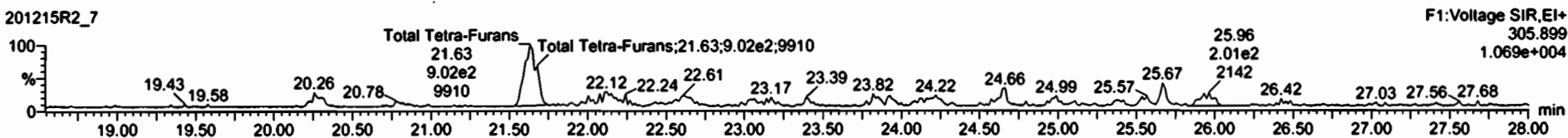
Name: 201215R2_7, Date: 15-Dec-2020, Time: 21:30:52, ID: 2002535-03 USMPDI-009SC-A-05-06-201112 16.97, Description: USMPDI-009SC-A-05-06-201112

2,3,7,8-TCDF

201215R2_7

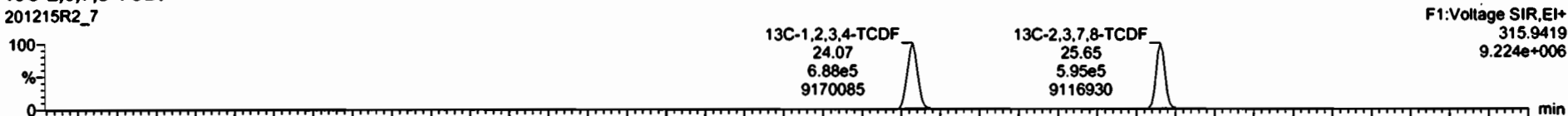


201215R2_7

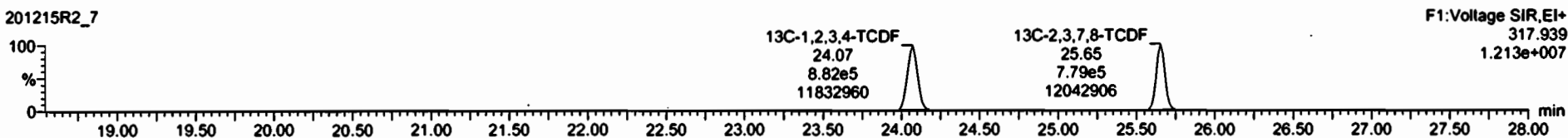


13C-2,3,7,8-TCDF

201215R2_7

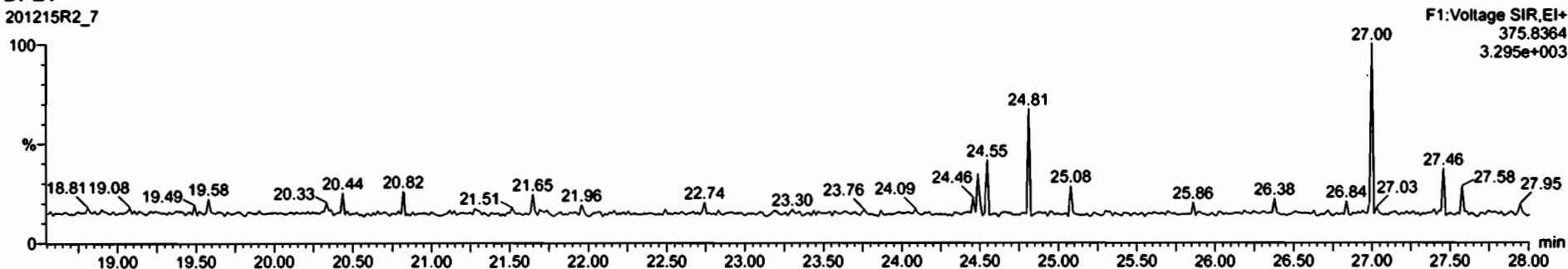


201215R2_7



DPE1

201215R2_7



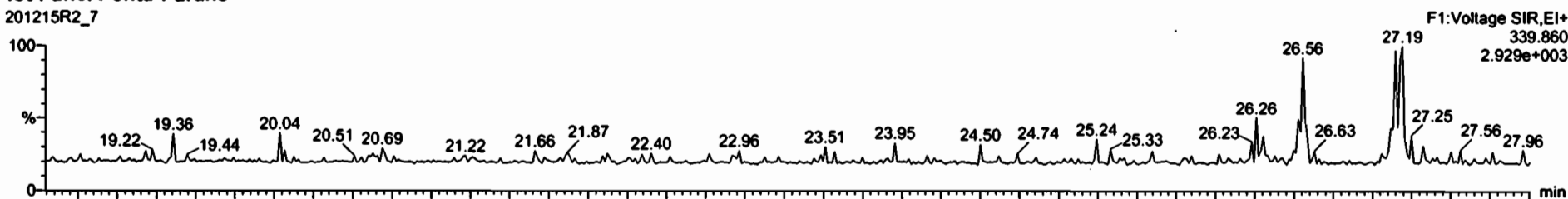
Dataset: Untitled

Last Altered: Wednesday, December 16, 2020 7:04:18 AM Pacific Standard Time
Printed: Wednesday, December 16, 2020 7:06:08 AM Pacific Standard Time

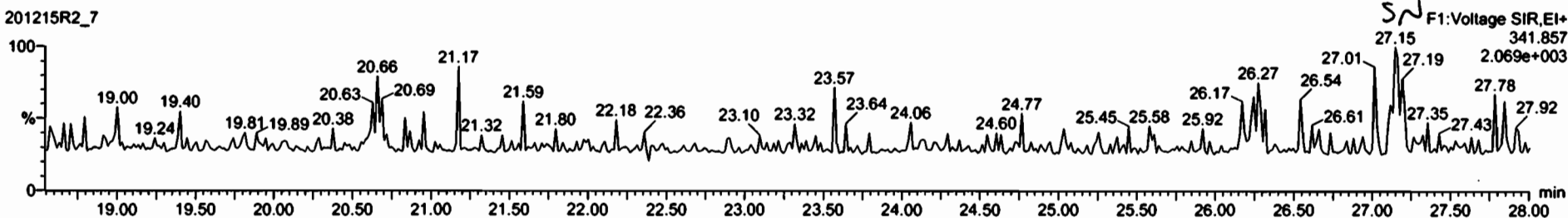
Name: 201215R2_7, Date: 15-Dec-2020, Time: 21:30:52, ID: 2002535-03 USMPDI-009SC-A-05-06-201112 16.97, Description: USMPDI-009SC-A-05-06-201112

1st Func. Penta-Furans

201215R2_7

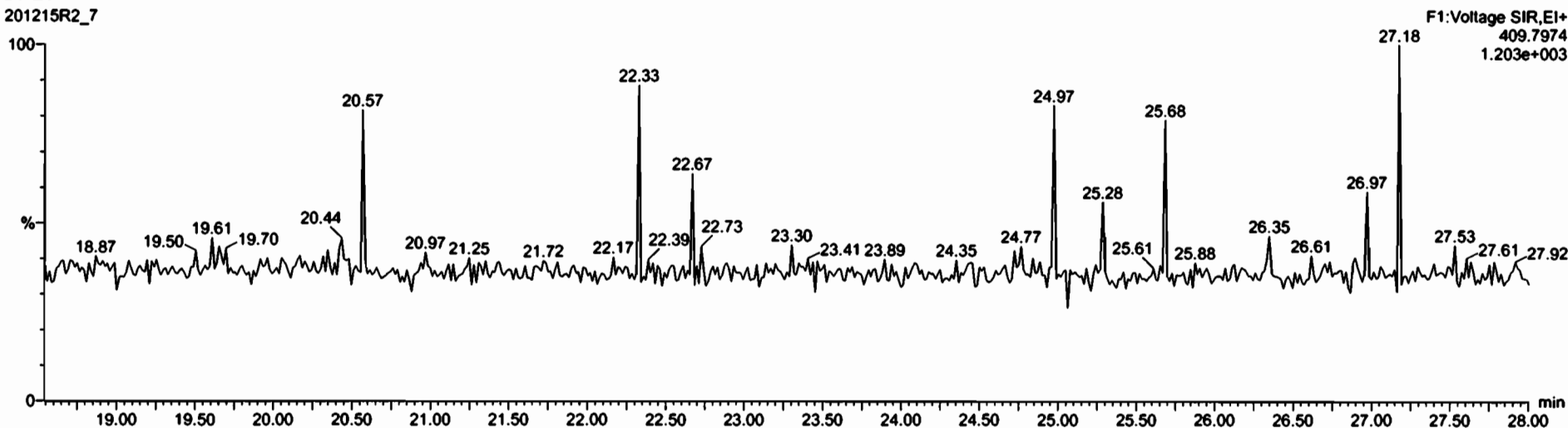


201215R2_7



DPE6

201215R2_7



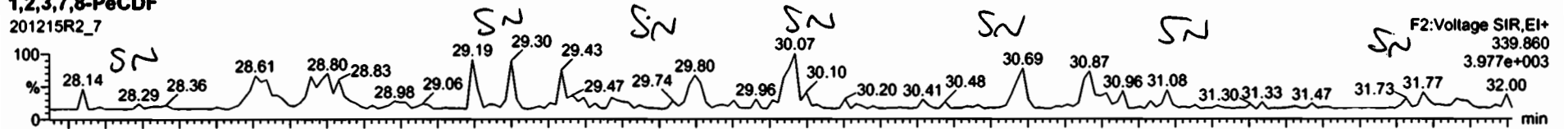
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Last Altered: Wednesday, December 16, 2020 7:04:18 AM Pacific Standard Time
Printed: Wednesday, December 16, 2020 7:06:08 AM Pacific Standard Time

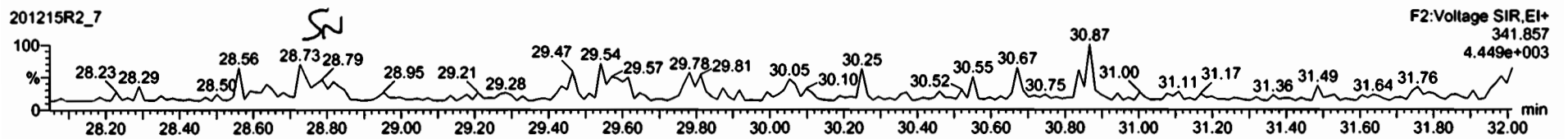
Name: 201215R2_7, Date: 15-Dec-2020, Time: 21:30:52, ID: 2002535-03 USMPDI-009SC-A-05-06-201112 16.97, Description: USMPDI-009SC-A-05-06-201112

1,2,3,7,8-PeCDF

201215R2_7



201215R2_7

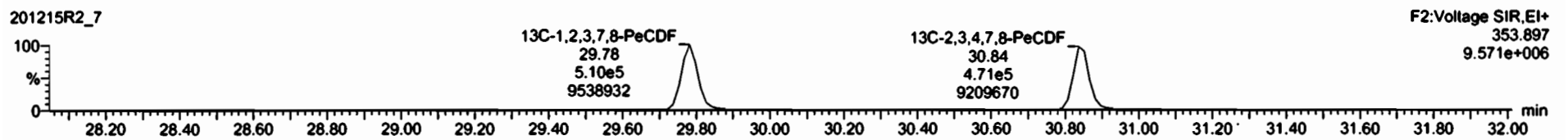


13C-1,2,3,7,8-PeCDF

201215R2_7

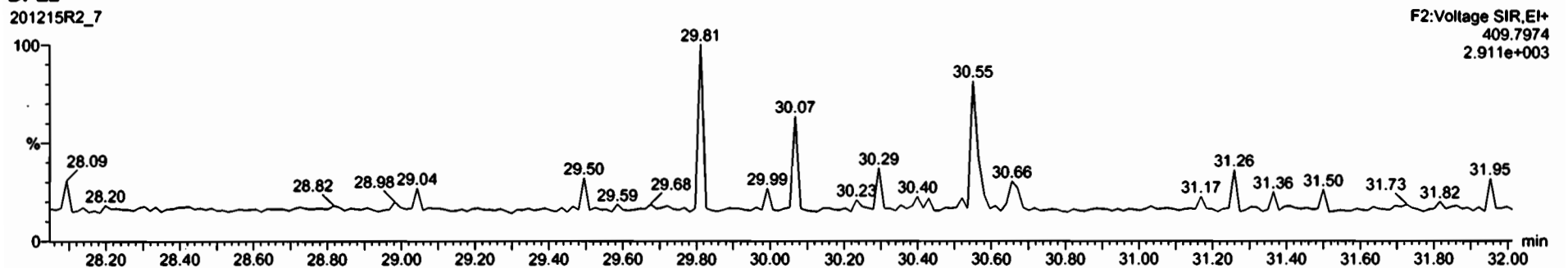


201215R2_7



DPE2

201215R2_7

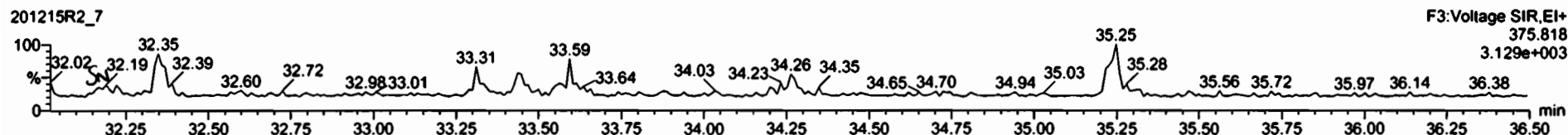
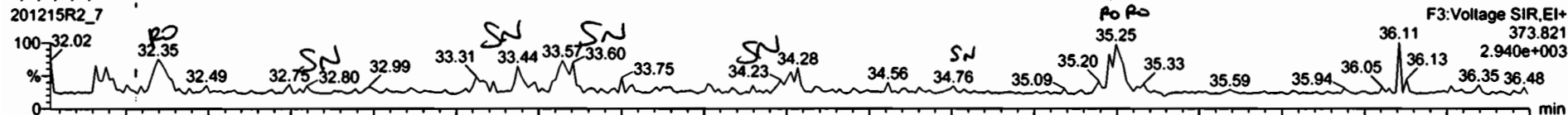


Dataset: Untitled

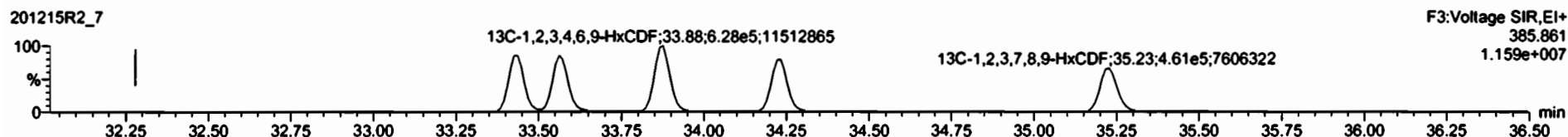
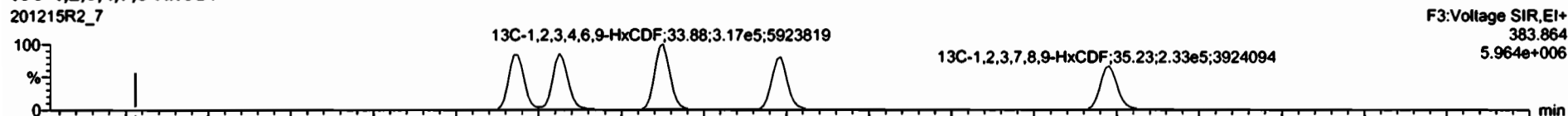
Last Altered: Wednesday, December 16, 2020 7:04:18 AM Pacific Standard Time
Printed: Wednesday, December 16, 2020 7:06:08 AM Pacific Standard Time

Name: 201215R2_7, Date: 15-Dec-2020, Time: 21:30:52, ID: 2002535-03 USMPDI-009SC-A-05-06-201112 16.97, Description: USMPDI-009SC-A-05-06-201112

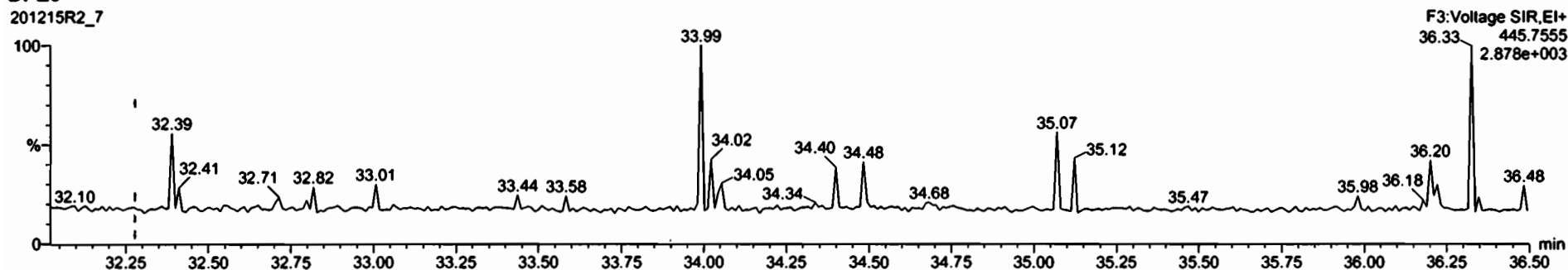
1,2,3,4,7,8-HxCDF



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

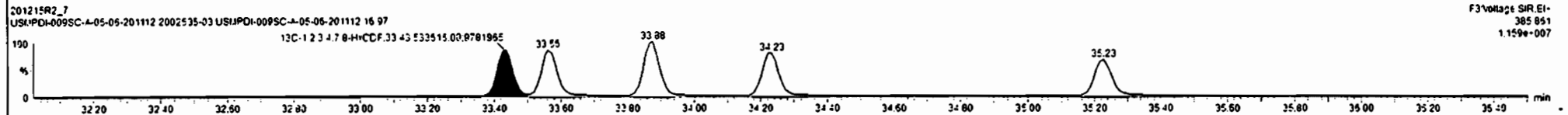
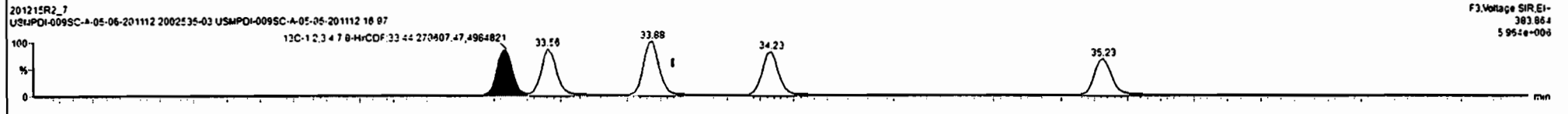
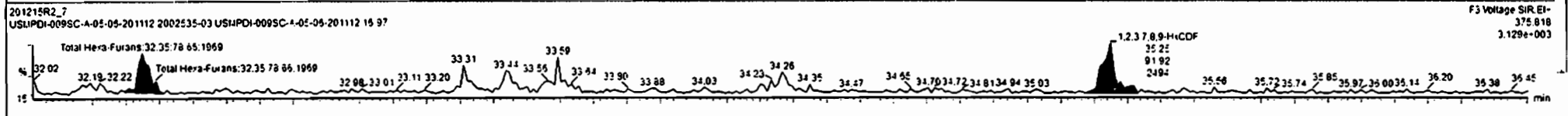
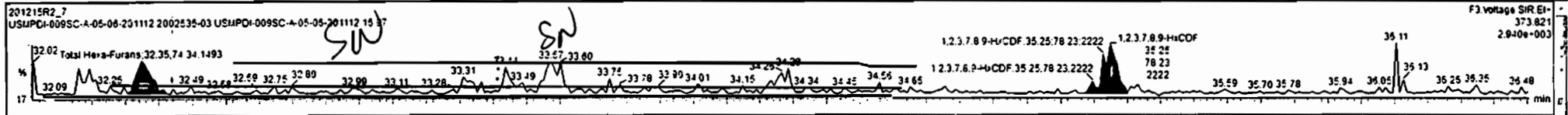


DPE3



Name	Reso	RA	Ny	RFI	wt/wt	RT	RAT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				2.3597	10.056					0.0176	

Name	RT	m1 Resp	m2 Resp	RA	Ny	EMPC	Conc.
1 Total Hexa-Furans	32.35	7.42e1	7.66e1	2.95	YES	0.034050	0.03300
2 1,2,3,7,8,9-HxCDF	35.25	7.823e1	5.192e1	2.95	YES	0.040853	0.03000
3 Total Hexa-Furans	35.26	3.298e1	2.005e1	1.64	YES	3.011390	0.03000

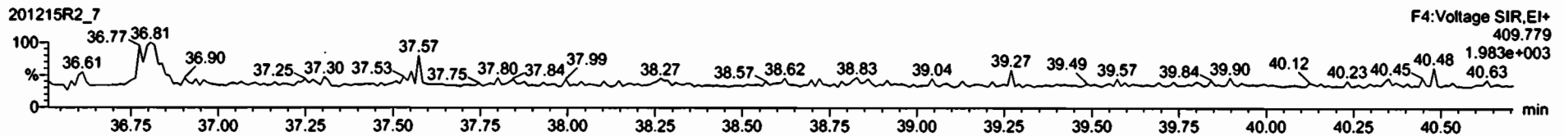
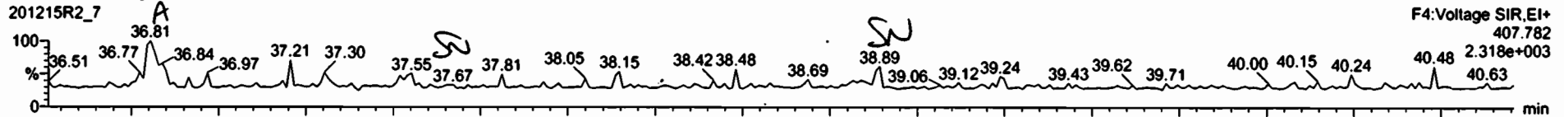


Dataset: Untitled

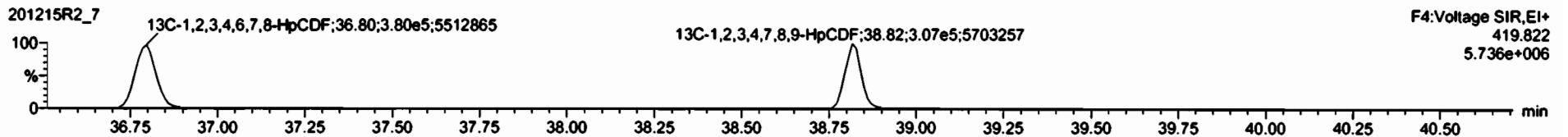
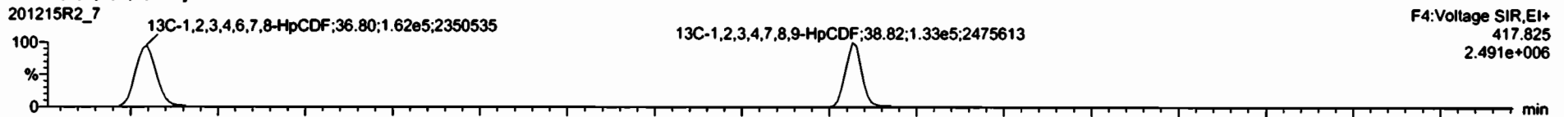
Last Altered: Wednesday, December 16, 2020 7:04:18 AM Pacific Standard Time
Printed: Wednesday, December 16, 2020 7:06:08 AM Pacific Standard Time

Name: 201215R2_7, Date: 15-Dec-2020, Time: 21:30:52, ID: 2002535-03 USMPDI-009SC-A-05-06-201112 16.97, Description: USMPDI-009SC-A-05-06-201112

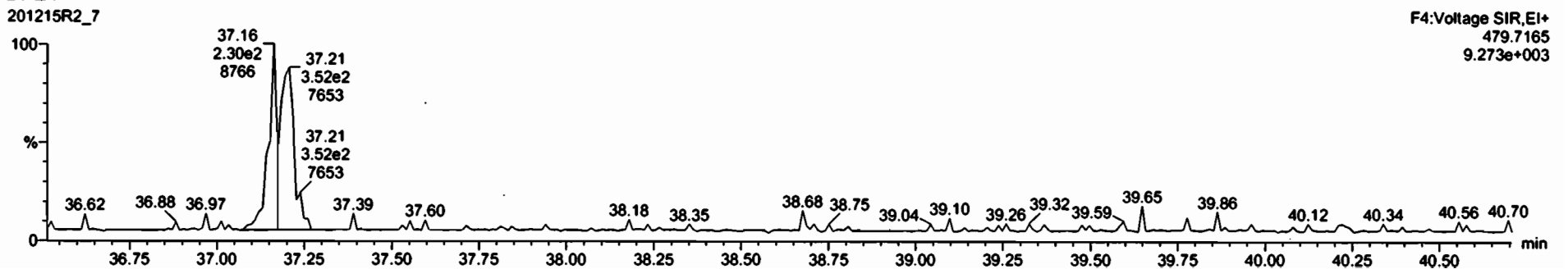
1,2,3,4,6,7,8-HpCDF

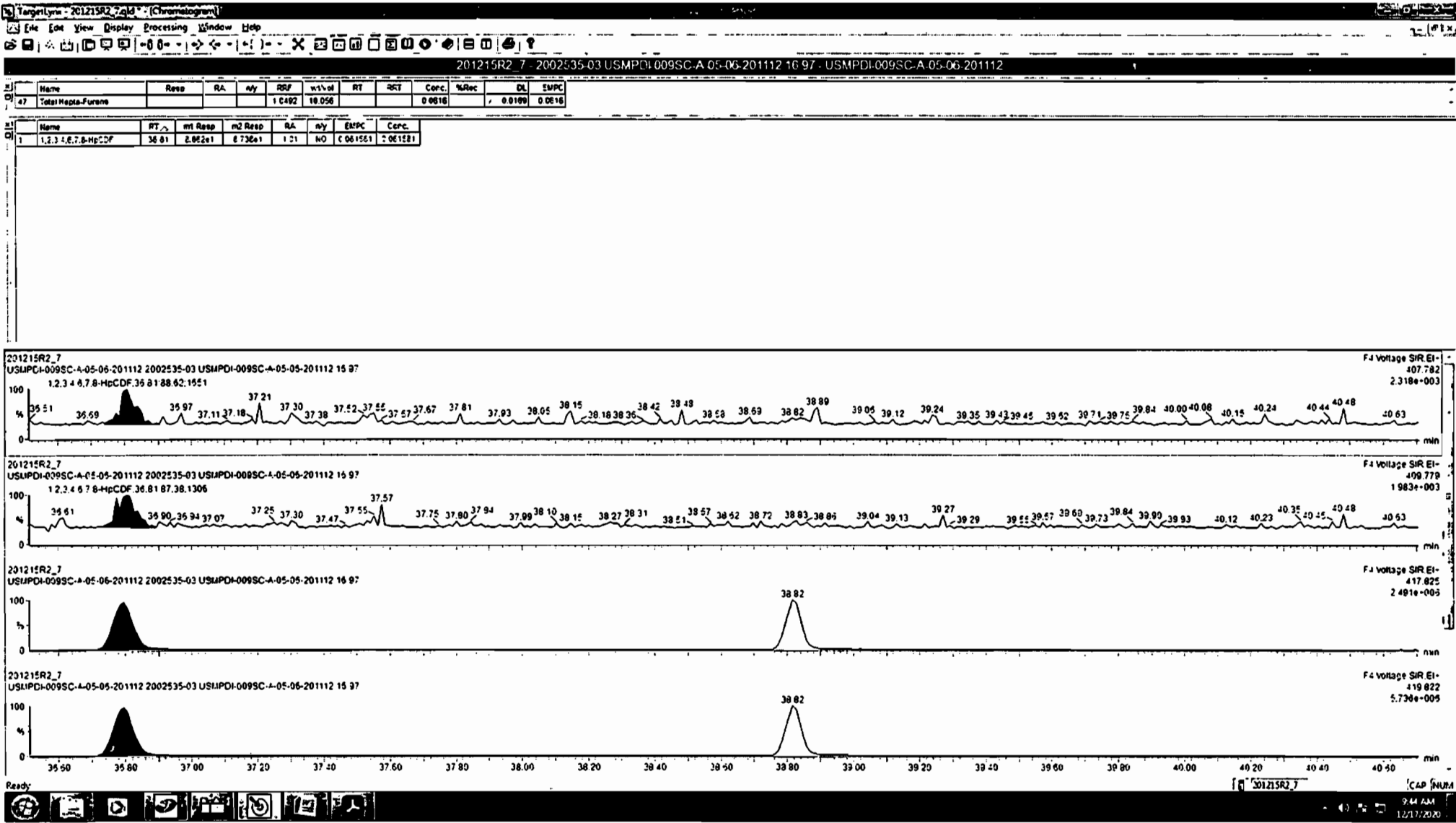


13C-1,2,3,4,6,7,8-HpCDF



DPE4



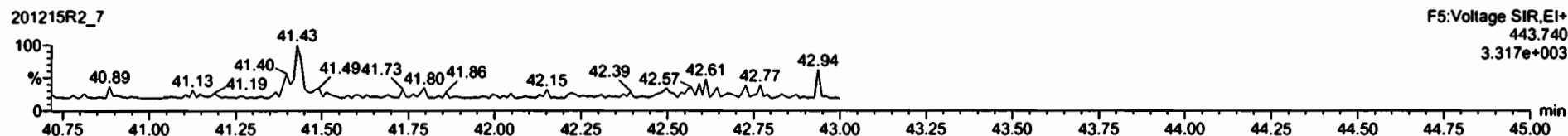
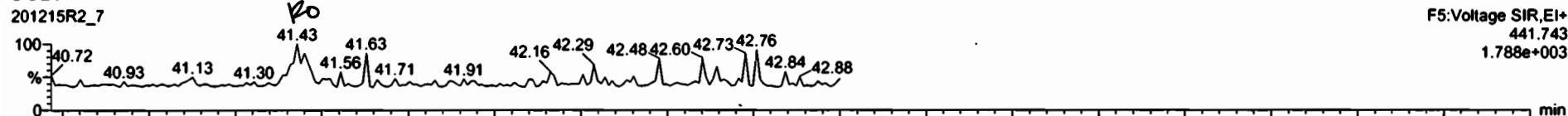


Dataset: Untitled

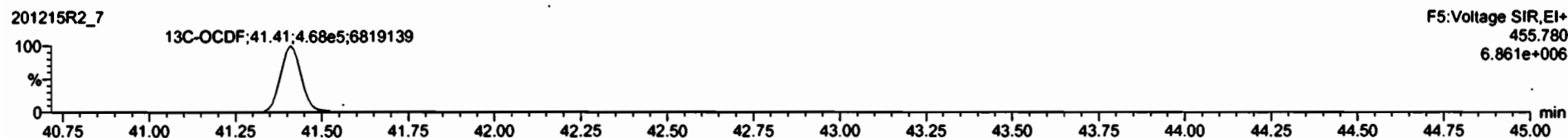
Last Altered: Wednesday, December 16, 2020 7:04:18 AM Pacific Standard Time
Printed: Wednesday, December 16, 2020 7:06:08 AM Pacific Standard Time

Name: 201215R2_7, Date: 15-Dec-2020, Time: 21:30:52, ID: 2002535-03 USMPDI-009SC-A-05-06-201112 16.97, Description: USMPDI-009SC-A-05-06-201112

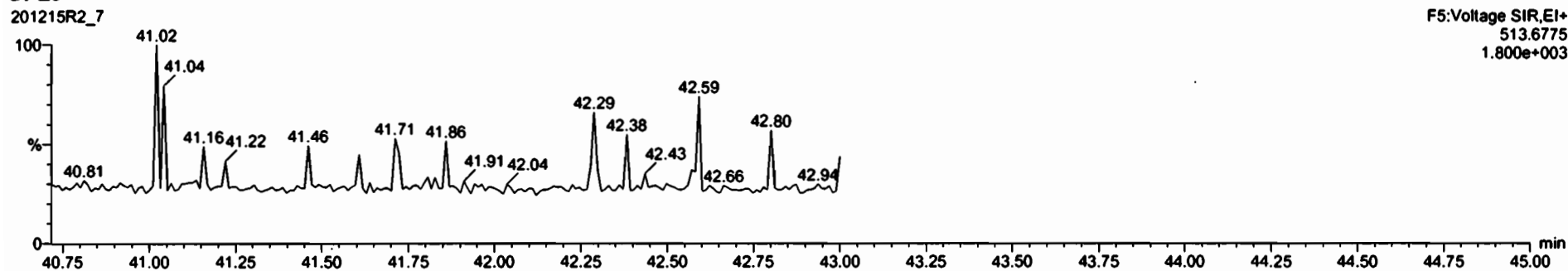
OCDF



13C-OCDF

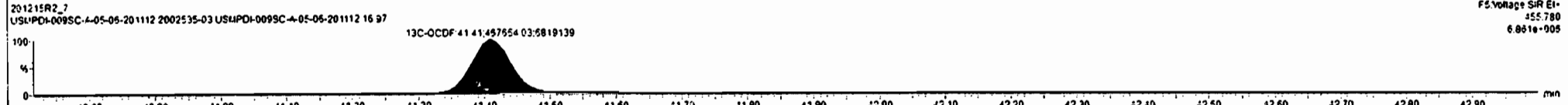
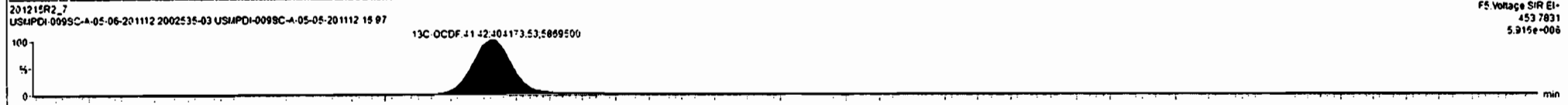
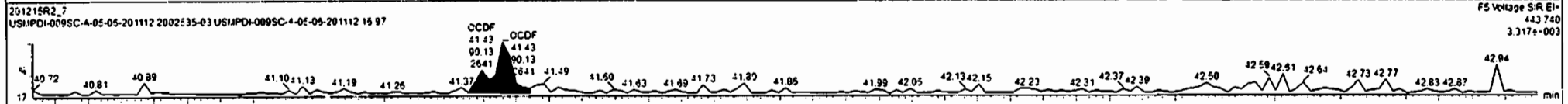
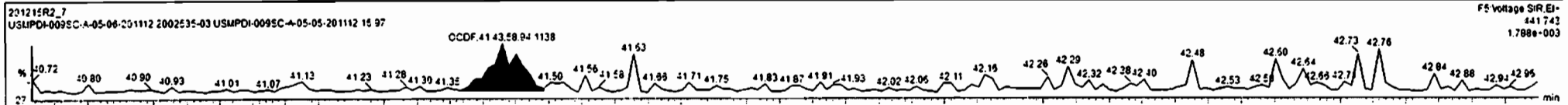


DPE5



Name	Resp	RA	ny	RRF	w/wot	RT	RRT	Ccnc.	%Rec	DL	EMPC
17	OCDF	1.48e2	0.05	YES	0.8960	10.056	41.43	1.003	0.0750	0.0720	0.0E37

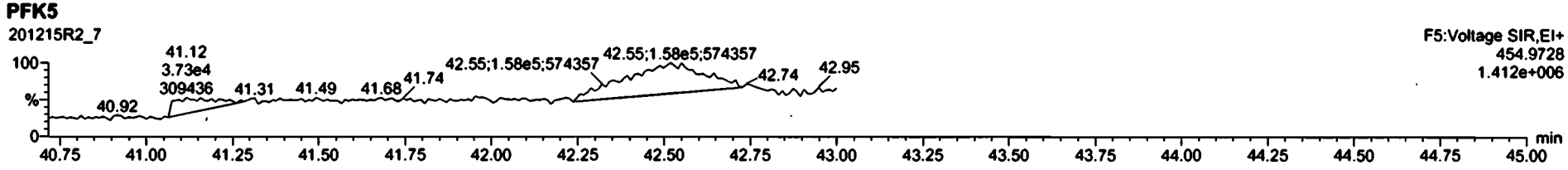
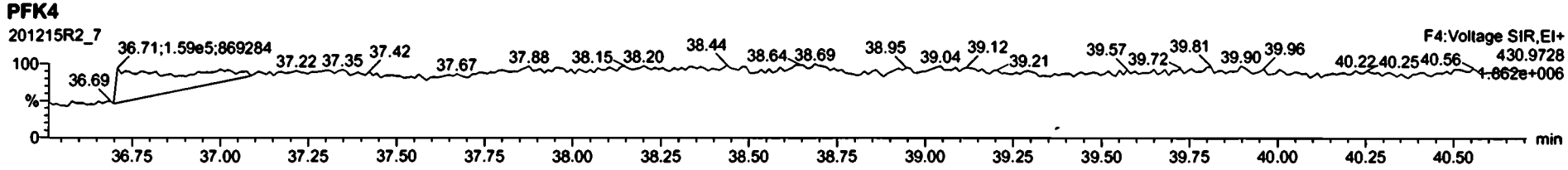
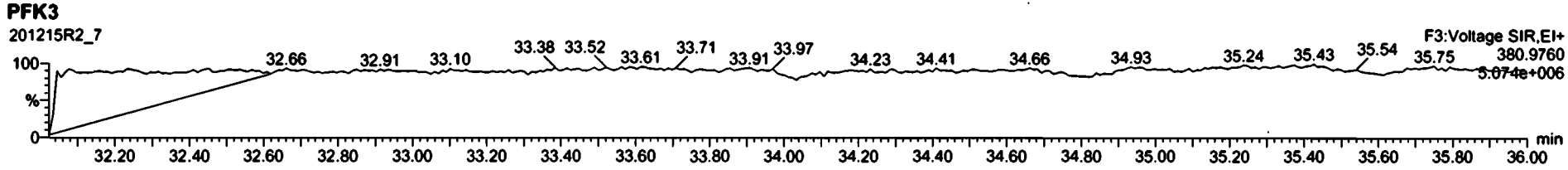
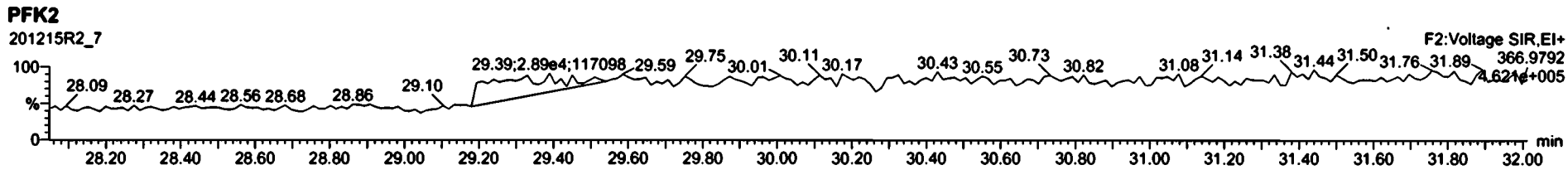
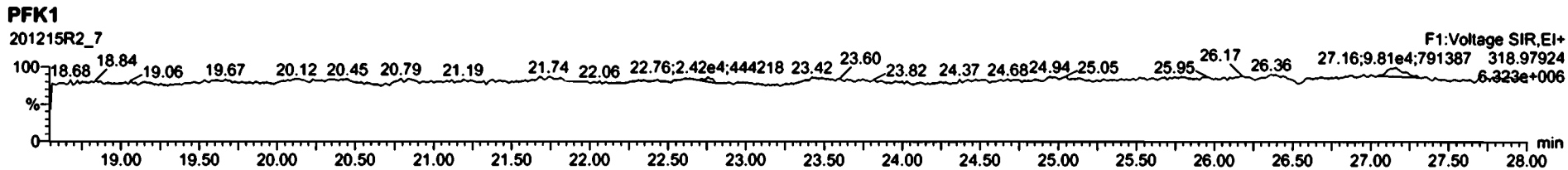
Name	RT	m1 Resp	m2 Resp	RA	ny	EMPC	Ccnc.
1							



Dataset: Untitled

Last Altered: Wednesday, December 16, 2020 7:04:18 AM Pacific Standard Time
Printed: Wednesday, December 16, 2020 7:06:08 AM Pacific Standard Time

Name: 201215R2_7, Date: 15-Dec-2020, Time: 21:30:52, ID: 2002535-03 USMPDI-009SC-A-05-06-201112 16.97, Description: USMPDI-009SC-A-05-06-201112



Dataset: U:\VG12.PRO\Results\201214R1\201214R1_12.qld

Last Altered: Thursday, December 17, 2020 8:46:28 AM Pacific Standard Time
Printed: Thursday, December 17, 2020 8:47:11 AM Pacific Standard Time

GPB 12/17/2020

Method: Untitled 11 Dec 2020 08:35:32

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

CT 12/17/2020

Name: 201214R1_12, Date: 14-Dec-2020, Time: 19:06:26, ID: B0L0034-DUP2 Duplicate 17.17, Description: Duplicate

#	Name	Resp	RA	Y/N	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.13e3	0.25	YES	0.980	10.175	26.366	26.35	1.001	1.001	0.13369		0.0228	0.0610
2	1,2,3,7,8-PeCDD	5.21e2	0.61	NO	0.932	10.175	31.048	31.03	1.001	1.001	0.084437		0.0377	0.0844
3	1,2,3,4,7,8-HxCDD			NO	1.02	10.175	34.347		1.001				0.0604	
4	1,2,3,6,7,8-HxCDD			NO	0.902	10.175	34.462		1.001				0.0614	
5	1,2,3,7,8,9-HxCDD	1.16e3	1.32	NO	0.954	10.175	34.724	34.72	1.000	1.000	0.22177		0.0610	0.222
6	1,2,3,4,6,7,8-HpCDD	4.77e3	1.02	NO	0.918	10.175	38.190	38.20	1.000	1.001	1.1837		0.0789	1.18
7	OCDD	2.58e4	0.88	NO	0.866	10.175	41.092	41.10	1.000	1.001	9.6541		0.129	9.65
8	2,3,7,8-TCDF	1.20e3	0.80	NO	0.848	10.175	25.642	25.67	1.000	1.001	0.12383		0.0287	0.124
9	1,2,3,7,8-PeCDF	8.12e2	1.25	YES	0.960	10.175	29.769	29.80	1.000	1.001	0.087573		0.0314	0.0799
10	2,3,4,7,8-PeCDF	8.37e2	1.24	YES	1.07	10.175	30.844	30.85	1.001	1.001	0.085142		0.0314	0.0776
11	1,2,3,4,7,8-HxCDF	5.17e2	1.16	NO	0.986	10.175	33.425	33.43	1.000	1.000	0.083728		0.0279	0.0837
12	1,2,3,6,7,8-HxCDF	4.40e2	1.41	NO	1.04	10.175	33.571	33.56	1.001	1.000	0.068433		0.0273	0.0684
13	2,3,4,6,7,8-HxCDF	3.26e2	1.35	NO	1.02	10.175	34.232	34.25	1.001	1.001	0.053355		0.0299	0.0534
14	1,2,3,7,8,9-HxCDF	2.30e2	1.06	NO	0.991	10.175	35.216	35.23	1.000	1.000	0.042428		0.0382	0.0424
15	1,2,3,4,6,7,8-HpCDF	6.61e2	1.07	NO	1.05	10.175	36.792	36.80	1.000	1.001	0.15069		0.0358	0.151
16	1,2,3,4,7,8,9-HpCDF			NO	1.18	10.175	38.806		1.000				0.0291	
17	OCDF	2.86e2	0.93	NO	0.896	10.175	41.385	41.37	1.000	1.000	0.096231		0.0441	0.0962
18	13C-2,3,7,8-TCDD	1.69e6	0.79	NO	1.06	10.175	26.337	26.33	1.030	1.030	196.73	100	0.0726	
19	13C-1,2,3,7,8-PeCDD	1.30e6	0.63	NO	0.785	10.175	31.174	31.02	1.219	1.213	203.42	103	0.178	
20	13C-1,2,3,4,7,8-HxCDD	9.74e5	1.29	NO	0.621	10.175	34.315	34.33	1.014	1.014	215.85	110	0.250	
21	13C-1,2,3,6,7,8-HxCDD	1.11e6	1.26	NO	0.734	10.175	34.437	34.44	1.017	1.017	208.43	106	0.211	
22	13C-1,2,3,7,8,9-HxCDD	1.08e6	1.25	NO	0.723	10.175	34.722	34.71	1.026	1.025	205.93	105	0.215	
23	13C-1,2,3,4,6,7,8-HpCDD	8.63e5	1.02	NO	0.568	10.175	38.219	38.18	1.129	1.128	209.20	106	0.711	
24	13C-OCDD	1.21e6	0.89	NO	0.496	10.175	41.154	41.08	1.216	1.214	336.12	85.5	0.433	
25	13C-2,3,7,8-TCDF	2.25e6	0.77	NO	0.919	10.175	25.637	25.64	1.003	1.003	198.23	101	0.114	
26	13C-1,2,3,7,8-PeCDF	1.90e6	1.59	NO	0.715	10.175	29.885	29.77	1.169	1.164	215.47	110	0.252	
27	13C-2,3,4,7,8-PeCDF	1.81e6	1.60	NO	0.689	10.175	30.972	30.82	1.212	1.206	212.94	108	0.261	
28	13C-1,2,3,4,7,8-HxCDF	1.23e6	0.51	NO	0.873	10.175	33.422	33.42	0.987	0.987	194.01	98.7	0.289	
29	13C-1,2,3,6,7,8-HxCDF	1.22e6	0.51	NO	0.933	10.175	33.550	33.55	0.991	0.991	179.28	91.2	0.270	
30	13C-2,3,4,6,7,8-HxCDF	1.18e6	0.51	NO	0.843	10.175	34.217	34.21	1.011	1.011	191.91	97.6	0.299	
31	13C-1,2,3,7,8,9-HxCDF	1.08e6	0.52	NO	0.780	10.175	35.216	35.22	1.040	1.040	189.78	96.5	0.323	

Dataset: U:\VG12.PRO\Results\201214R1\201214R1_12.qld

Last Altered: Thursday, December 17, 2020 8:46:28 AM Pacific Standard Time

Printed: Thursday, December 17, 2020 8:47:11 AM Pacific Standard Time

Name: 201214R1_12, Date: 14-Dec-2020, Time: 19:06:26, ID: B0L0034-DUP2 Duplicate 17.17, Description: Duplicate

#	Name	Resp	RA	ny	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	8.21e5	0.43	NO	0.726	10.175	36.790	36.77	1.087	1.086	155.57	79.1	0.420	
33	13C-1,2,3,4,7,8,9-HpCDF	6.82e5	0.43	NO	0.491	10.175	38.798	38.79	1.146	1.146	191.15	97.2	0.621	
34	13C-OCDF	1.30e6	0.88	NO	0.565	10.175	41.371	41.38	1.222	1.222	317.12	80.7	0.378	
35	37Cl-2,3,7,8-TCDD	7.44e5			1.22	10.175	26.332	26.35	1.030	1.031	75.043	95.4	0.0146	
36	13C-1,2,3,4-TCDD	1.60e6	0.79	NO	1.00	10.175	25.640	25.57	1.000	1.000	196.56	100	0.0766	
37	13C-1,2,3,4-TCDF	2.43e6	0.78	NO	1.00	10.175	24.130	24.06	1.000	1.000	196.56	100	0.104	
38	13C-1,2,3,4,6,9-HxCDF	1.43e6	0.51	NO	1.00	10.175	33.920	33.85	1.000	1.000	196.56	100	0.252	
39	Total Tetra-Dioxins				0.980	10.175	24.620		0.000		1.1027		0.0223	1.16
40	Total Penta-Dioxins				0.932	10.175	29.960		0.000		1.0993		0.0377	1.38
41	Total Hexa-Dioxins				0.902	10.175	33.635		0.000		2.6147		0.0646	2.61
42	Total Hepta-Dioxins				0.918	10.175	37.640		0.000		2.8336		0.0789	2.83
43	Total Tetra-Furans				0.848	10.175	23.610		0.000		2.2602		0.0287	2.53
44	1st Func. Penta-Furans				0.960	10.175	26.930		0.000		0.10085		0.0118	0.101
45	Total Penta-Furans				0.960	10.175	29.275		0.000		0.48888		0.0331	0.743
46	Total Hexa-Furans				1.02	10.175	33.555		0.000		0.48921		0.0302	0.489
47	Total Hepta-Furans				1.05	10.175	37.835		0.000		0.15069		0.0343	0.151

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201214R1\201214R1_12.qld

Last Altered: Thursday, December 17, 2020 8:46:28 AM Pacific Standard Time

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Method: Untitled 11 Dec 2020 08:35:32

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201214R1_12, Date: 14-Dec-2020, Time: 19:06:26, ID: B0L0034-DUP2 Duplicate 17.17, Description: Duplicate

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Tetra-Dioxins	22.53	1.499e4	2.140e4	1.324e3	1.703e3	0.78	NO	3.027e3	0.35865	0.35865	0.0223
Total Tetra-Dioxins	22.88	1.122e4	1.375e4	9.672e2	1.303e3	0.74	NO	2.270e3	0.26902	0.26902	0.0223
Total Tetra-Dioxins	24.26	9.045e3	1.203e4	6.457e2	9.197e2	0.70	NO	1.565e3	0.18548	0.18548	0.0223
Total Tetra-Dioxins	24.49	4.420e3	4.562e3	3.021e2	3.865e2	0.78	NO	6.887e2	0.081600	0.081600	0.0223
Total Tetra-Dioxins	24.71	3.225e3	4.399e3	2.522e2	3.266e2	0.77	NO	5.787e2	0.068573	0.068573	0.0223
Total Tetra-Dioxins	26.02	2.196e3	2.251e3	2.083e2	2.950e2	0.71	NO	5.033e2	0.059631	0.059631	0.0223
2,3,7,8-TCDD	26.35	4.184e3	1.631e4	2.241e2	9.042e2	0.25	YES	1.128e3	0.00000	0.061044	0.0223
Total Tetra-Dioxins	26.66	2.995e3	4.689e3	1.590e2	2.138e2	0.74	NO	3.728e2	0.044171	0.044171	0.0223
Total Tetra-Dioxins	27.24	2.703e3	2.954e3	1.383e2	1.619e2	0.85	NO	3.002e2	0.035569	0.035569	0.0223

Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Penta-Dioxins	28.77	1.632e4	1.921e4	9.009e2	1.307e3	0.69	NO	2.208e3	0.35804	0.35804	0.0377
Total Penta-Dioxins	29.27	7.014e3	1.100e4	3.719e2	5.670e2	0.66	NO	9.388e2	0.15225	0.15225	0.0377
Total Penta-Dioxins	29.78	1.864e4	1.255e4	8.963e2	8.437e2	1.06	YES	0.000e0	0.00000	0.22301	0.0377
Total Penta-Dioxins	30.02	9.914e3	1.103e4	5.473e2	8.029e2	0.68	NO	1.350e3	0.21896	0.21896	0.0377
Total Penta-Dioxins	30.26	5.644e3	1.056e4	3.878e2	6.795e2	0.57	NO	1.067e3	0.17309	0.17309	0.0377
Total Penta-Dioxins	30.57	5.106e3	5.560e3	2.291e2	3.202e2	0.72	NO	5.493e2	0.089084	0.089084	0.0377
1,2,3,7,8-PeCDD	31.03	4.892e3	7.606e3	1.977e2	3.230e2	0.61	NO	5.207e2	0.084437	0.084437	0.0377
Total Penta-Dioxins	31.11	1.252e3	1.596e3	5.769e1	8.687e1	0.66	NO	1.446e2	0.023443	0.023443	0.0377
Total Penta-Dioxins	31.38	2.520e3	5.617e3	1.263e2	3.397e2	0.37	YES	0.000e0	0.00000	0.053006	0.0377

Dataset: U:\VG12.PRO\Results\201214R1\201214R1_12.qld

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Name: 201214R1_12, Date: 14-Dec-2020, Time: 19:06:26, ID: B0L0034-DUP2 Duplicate 17.17, Description: Duplicate

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Hexa-Dioxins	32.70	5.469e4	4.487e4	2.607e3	2.284e3	1.14	NO	4.891e3	1.0090	1.0090	0.0646
2 Total Hexa-Dioxins	33.30	3.371e4	2.933e4	1.731e3	1.407e3	1.23	NO	3.138e3	0.64729	0.64729	0.0646
3 Total Hexa-Dioxins	33.57	2.617e4	1.982e4	1.873e3	1.361e3	1.38	NO	3.233e3	0.66706	0.66706	0.0646
4 Total Hexa-Dioxins	33.68	4.802e3	2.869e3	1.967e2	1.403e2	1.40	NO	3.370e2	0.069515	0.069515	0.0646
5 1,2,3,7,8,9-HxCDD	34.72	1.052e4	7.676e3	6.619e2	5.025e2	1.32	NO	1.164e3	0.22177	0.22177	0.0610

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Hepta-Dioxins	37.19	4.030e4	3.827e4	3.381e3	3.271e3	1.03	NO	6.653e3	1.6500	1.6500	0.0789
2 1,2,3,4,6,7,8-HpCDD	38.20	3.936e4	3.868e4	2.409e3	2.364e3	1.02	NO	4.772e3	1.1837	1.1837	0.0789

Dataset: U:\VG12.PRO\Results\201214R1\201214R1_12.qld

Last Altered: Thursday, December 17, 2020 8:46:28 AM Pacific Standard Time
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Name: 201214R1_12, Date: 14-Dec-2020, Time: 19:06:26, ID: B0L0034-DUP2 Duplicate 17.17, 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	20.27	7.335e3	1.050e4	5.691e2	7.792e2	0.73	NO	1.348e3	0.13891	0.13891	0.0287
2	Total Tetra-Furans	20.85	3.390e3	3.548e3	2.823e2	3.198e2	0.88	NO	6.021e2	0.062030	0.062030	0.0287
3	Total Tetra-Furans	21.65	2.901e4	4.033e4	2.737e3	3.702e3	0.74	NO	6.439e3	0.66337	0.66337	0.0287
4	Total Tetra-Furans	21.84	2.827e3	2.777e3	1.562e2	1.921e2	0.81	NO	3.483e2	0.035882	0.035882	0.0287
5	Total Tetra-Furans	22.00	2.468e3	3.461e3	2.000e2	2.695e2	0.74	NO	0.000e0	0.00000	0.048370	0.0287
6	Total Tetra-Furans	22.12	8.189e3	1.007e4	9.027e2	1.182e3	0.76	NO	2.084e3	0.21472	0.21472	0.0287
7	Total Tetra-Furans	22.24	2.402e3	4.451e3	1.430e2	1.841e2	0.78	NO	3.271e2	0.033694	0.033694	0.0287
8	Total Tetra-Furans	22.45	2.303e3	2.741e3	1.487e2	1.862e2	0.80	NO	3.349e2	0.034506	0.034506	0.0287
9	Total Tetra-Furans	22.62	4.741e3	8.830e3	3.912e2	9.899e2	0.40	YES	0.000e0	0.00000	0.092645	0.0287
10	Total Tetra-Furans	23.04	4.539e3	5.502e3	3.793e2	4.592e2	0.83	NO	8.385e2	0.086381	0.086381	0.0287
11	Total Tetra-Furans	23.17	2.776e3	3.017e3	2.050e2	2.602e2	0.79	NO	4.651e2	0.047917	0.047917	0.0287
12	Total Tetra-Furans	23.39	3.812e3	5.139e3	2.790e2	4.039e2	0.69	NO	6.829e2	0.070359	0.070359	0.0287
13	Total Tetra-Furans	23.81	4.478e3	6.090e3	2.995e2	4.274e2	0.70	NO	7.269e2	0.074885	0.074885	0.0287
14	Total Tetra-Furans	23.92	5.760e3	6.005e3	2.871e2	3.830e2	0.75	NO	6.701e2	0.069035	0.069035	0.0287
15	Total Tetra-Furans	24.10	4.169e3	6.112e3	3.129e2	3.935e2	0.80	NO	7.064e2	0.072778	0.072778	0.0287
16	Total Tetra-Furans	24.22	5.191e3	6.745e3	5.627e2	8.439e2	0.67	NO	1.407e3	0.14491	0.14491	0.0287
17	Total Tetra-Furans	24.65	8.682e3	1.312e4	6.640e2	8.497e2	0.78	NO	1.514e3	0.15595	0.15595	0.0287
18	Total Tetra-Furans	24.75	1.507e3	1.136e3	5.572e1	7.153e1	0.78	NO	1.273e2	0.013110	0.013110	0.0287
19	Total Tetra-Furans	24.96	4.322e3	6.108e3	3.349e2	4.138e2	0.81	NO	7.487e2	0.077129	0.077129	0.0287
20	Total Tetra-Furans	25.08	2.257e3	2.561e3	1.490e2	1.784e2	0.84	NO	3.274e2	0.033731	0.033731	0.0287
21	Total Tetra-Furans	25.34	4.107e3	6.098e3	2.494e2	3.212e2	0.78	NO	5.706e2	0.058790	0.058790	0.0287
22	Total Tetra-Furans	25.52	3.452e3	3.667e3	2.403e2	2.503e2	0.96	YES	0.000e0	0.00000	0.045650	0.0287
23	2,3,7,8-TCDF	25.67	9.045e3	1.060e4	5.339e2	6.680e2	0.80	NO	1.202e3	0.12383	0.12383	0.0287
24	Total Tetra-Furans	25.91	3.839e3	5.108e3	2.150e2	2.536e2	0.85	NO	4.686e2	0.048274	0.048274	0.0287
25	Total Tetra-Furans	25.95	5.206e3	6.545e3	3.235e2	4.471e2	0.72	NO	0.000e0	0.00000	0.079388	0.0287

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	27.15	7.504e3	4.671e3	5.601e2	3.542e2	1.58	NO	9.143e2	0.10085	0.10085	0.0118

Dataset: U:\VG12.PRO\Results\201214R1\201214R1_12.qld

Last Altered: Thursday, December 17, 2020 8:46:28 AM Pacific Standard Time
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Name: 201214R1_12, Date: 14-Dec-2020, Time: 19:06:26, ID: B0L0034-DUP2 Duplicate 17.17, 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	28.59	8.277e3	5.696e3	6.902e2	4.648e2	1.48	NO	1.155e3	0.12740	0.12740	0.0331
2 Total Penta-Furans	28.80	1.092e4	7.356e3	9.516e2	7.043e2	1.35	NO	1.656e3	0.18265	0.18265	0.0331
3 Total Penta-Furans	29.43	7.906e3	5.048e3	4.509e2	3.299e2	1.37	NO	7.808e2	0.086125	0.086125	0.0331
4 Total Penta-Furans	29.59	5.116e3	5.676e3	2.418e2	3.089e2	0.78	YES	0.000e0	0.00000	0.043880	0.0331
5 1,2,3,7,8-PeCDF	29.80	7.815e3	7.482e3	4.514e2	3.604e2	1.25	YES	8.118e2	0.00000	0.079920	0.0314
6 Total Penta-Furans	30.04	9.675e3	7.239e3	4.811e2	3.593e2	1.34	NO	8.404e2	0.092696	0.092696	0.0331
7 Total Penta-Furans	30.66	5.525e3	4.866e3	2.928e2	3.035e2	0.96	YES	0.000e0	0.00000	0.053129	0.0331
8 2,3,4,7,8-PeCDF	30.85	8.307e3	7.334e3	4.638e2	3.732e2	1.24	YES	8.370e2	0.00000	0.077612	0.0314

Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 Total Hexa-Furans	32.18	2.776e3	2.340e3	1.329e2	1.241e2	1.07	NO	2.570e2	0.042144	0.042144	0.0302
2 Total Hexa-Furans	32.35	6.249e3	6.728e3	3.503e2	3.260e2	1.07	NO	6.763e2	0.11090	0.11090	0.0302
3 Total Hexa-Furans	33.29	3.889e3	2.634e3	2.038e2	1.545e2	1.32	NO	3.584e2	0.058770	0.058770	0.0302
4 1,2,3,4,7,8-HxCDF	33.43	4.292e3	4.907e3	2.783e2	2.389e2	1.16	NO	5.172e2	0.083728	0.083728	0.0279
5 1,2,3,6,7,8-HxCDF	33.56	4.092e3	3.631e3	2.574e2	1.825e2	1.41	NO	4.399e2	0.068433	0.068433	0.0273
6 2,3,4,6,7,8-HxCDF	34.25	2.808e3	2.918e3	1.870e2	1.386e2	1.35	NO	3.256e2	0.053355	0.053355	0.0299
7 1,2,3,7,8,9-HxCDF	35.23	3.315e3	3.056e3	1.182e2	1.119e2	1.06	NO	2.301e2	0.042428	0.042428	0.0382
8 Total Hexa-Furans	35.25	2.812e3	2.682e3	9.300e1	8.659e1	1.07	NO	1.796e2	0.029450	0.029450	0.0302

Hepta-Furans

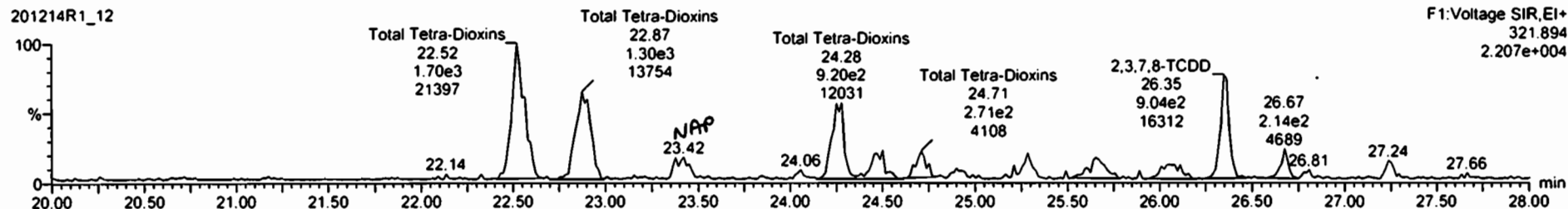
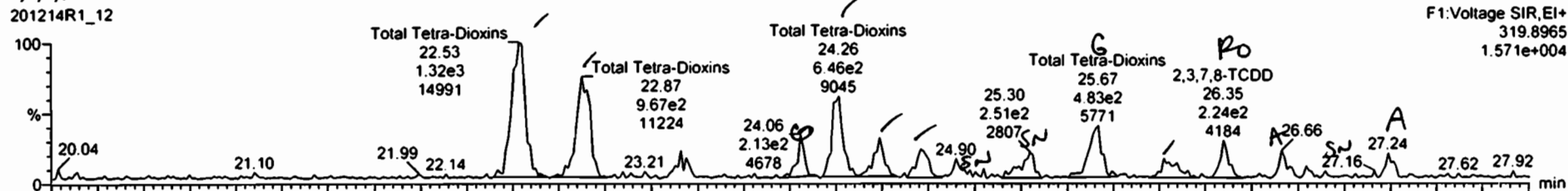
Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 1,2,3,4,6,7,8-HpCDF	36.80	4.052e3	4.976e3	3.413e2	3.194e2	1.07	NO	6.607e2	0.15069	0.15069	0.0358

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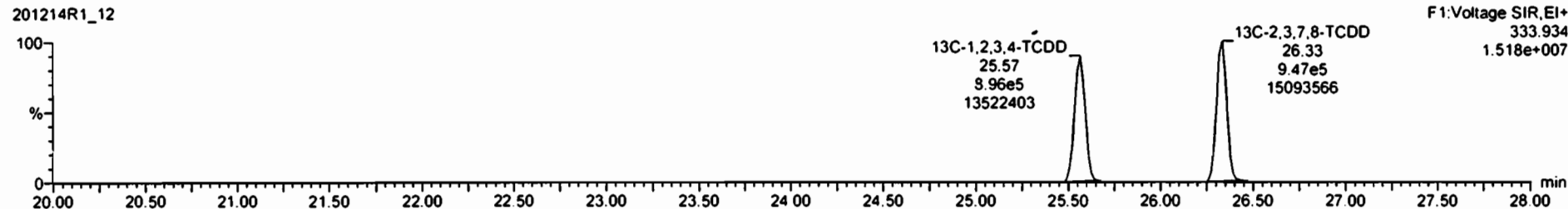
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Printed: Tuesday, December 15, 2020 7:04:33 AM Pacific Standard Time

Name: 201214R1_12, Date: 14-Dec-2020, Time: 19:06:26, ID: B0L0034-DUP2 Duplicate 17.17, Description: Duplicate

2,3,7,8-TCDD

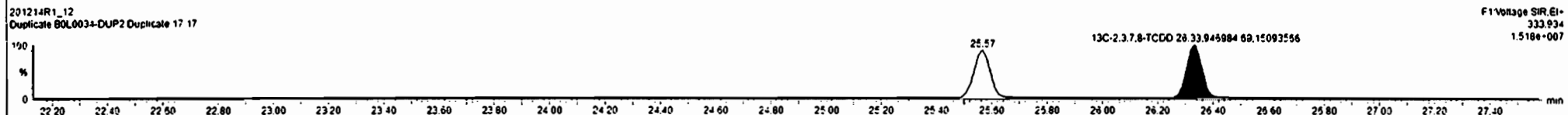
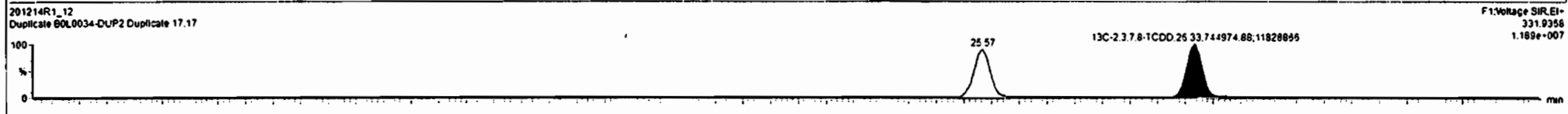
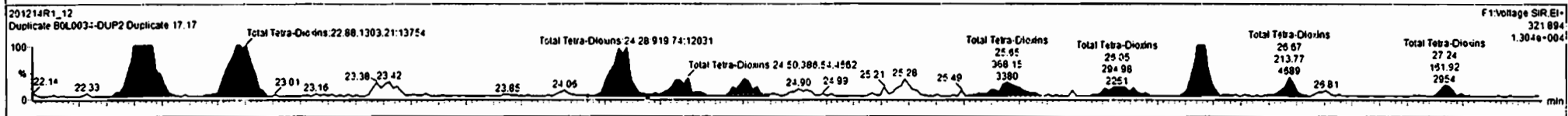
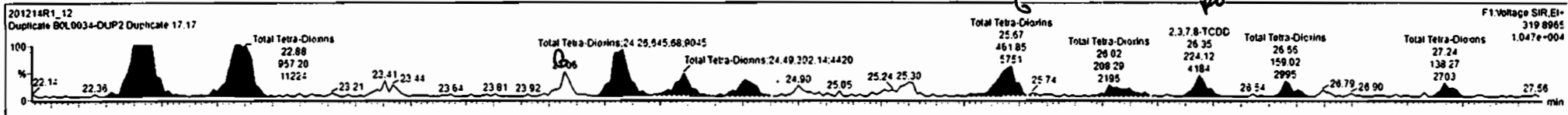


13C-2,3,7,8-TCDD



Name	Reso	RA	n/y	RF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				9.68E5	18.175			1.10		0.0223	1.24

Name	RT	wt Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	22.53	1.324e3	1.703e3	0.78	NO	0.3588E5	0.3588E5
2 Total Tetra-Dioxins	22.88	8.672e2	1.303e3	0.74	NO	0.2890E2	0.2890E2
3 Total Tetra-Dioxins	24.26	6.457e2	8.197e2	0.76	NO	0.1854E8	0.1854E8
4 Total Tetra-Dioxins	24.49	3.621e2	3.855e2	0.78	NO	0.0618E6	0.0618E6
5 Total Tetra-Dioxins	24.71	2.522e2	3.286e2	0.77	NO	0.0685E3	0.0685E3
6 Total Tetra-Dioxins	25.57	4.618e2	3.662e2	1.25	YES	0.0772E10	0.000000
7 Total Tetra-Dioxins	26.02	2.687e2	2.950e2	0.71	NO	0.0596E31	0.0596E31
8 2,3,7,8-TCDD	26.35	2.341e2	8.045e2	0.25	YES	0.0610E4	0.000000
9 Total Tetra-Dioxins	26.66	1.592e2	2.178e2	0.74	NO	0.0441E71	0.0441E71
10 Total Tetra-Dioxins	27.24	1.363e2	1.619e2	0.85	NO	0.0255E69	0.0255E69



Dataset: Untitled

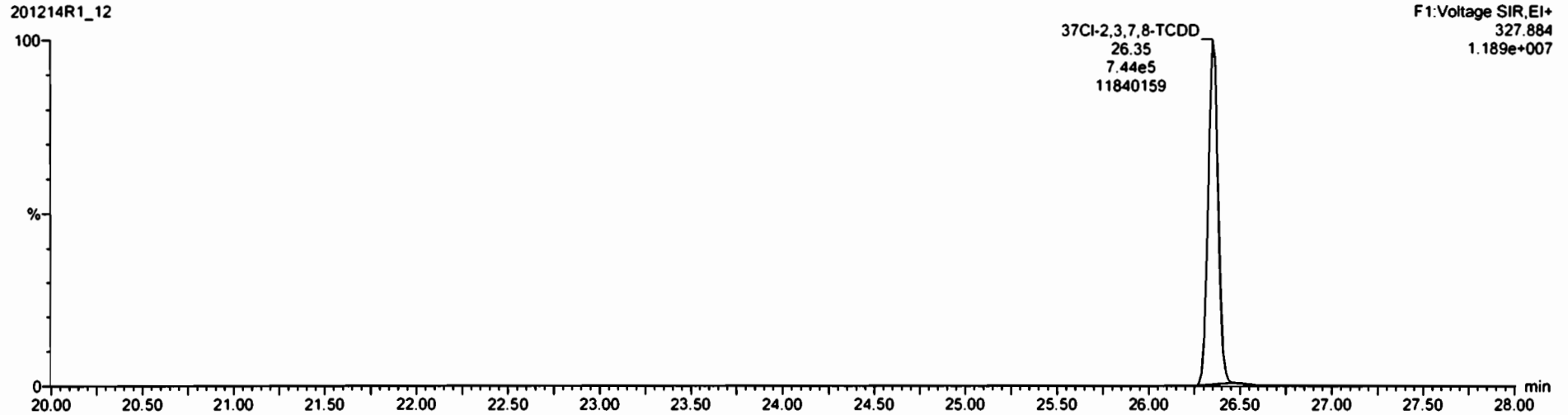
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37Cl-2,3,7,8-TCDD

201214R1_12

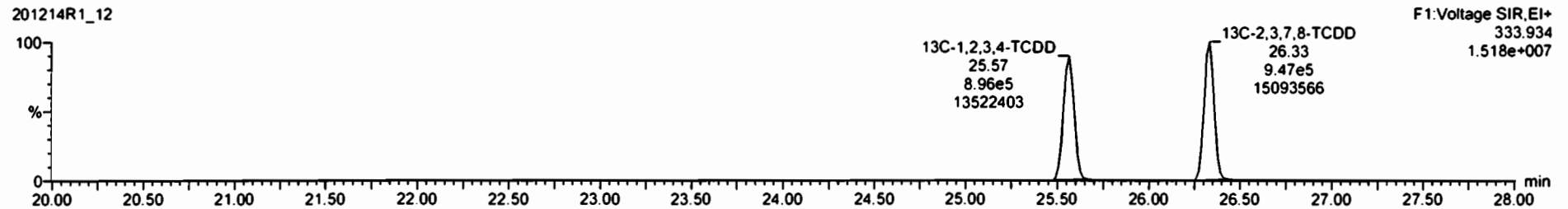


13C-1,2,3,4-TCDD

201214R1_12



201214R1_12



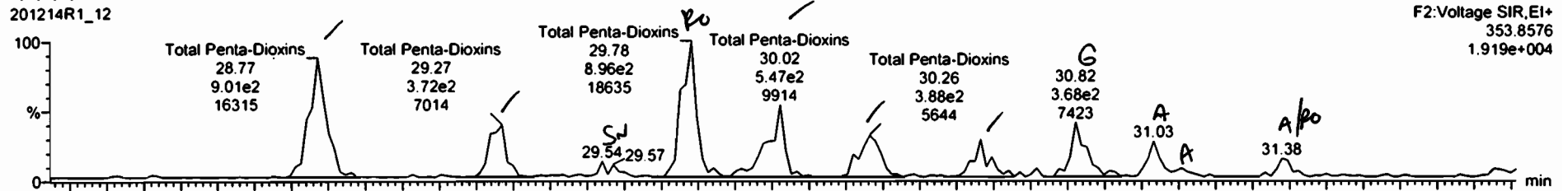
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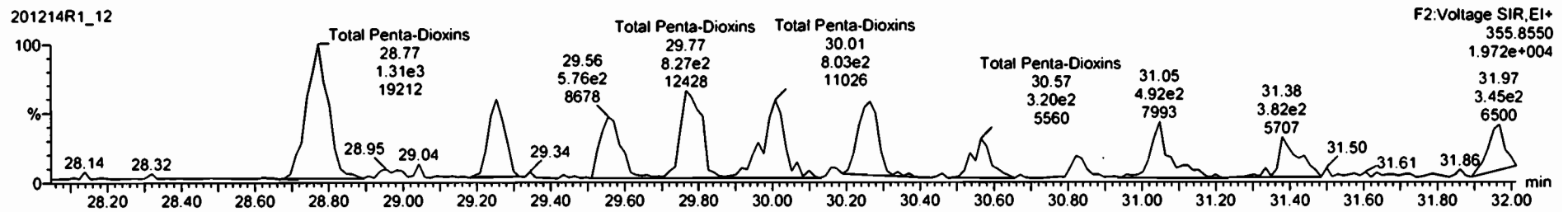
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1,2,3,7,8-PeCDD

201214R1_12



201214R1_12

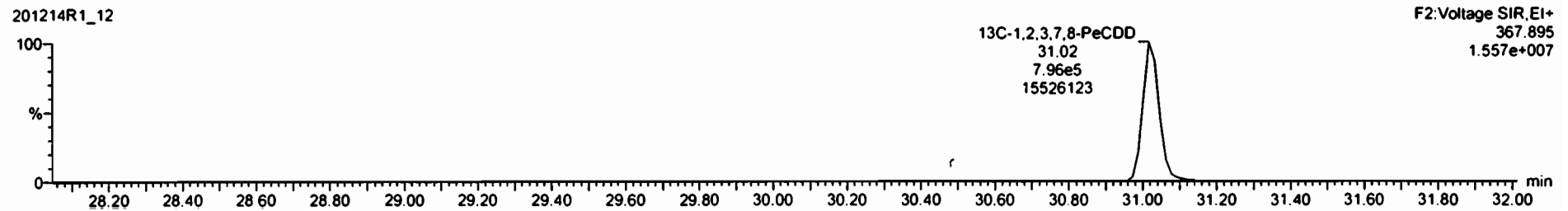


13C-1,2,3,7,8-PeCDD

201214R1_12

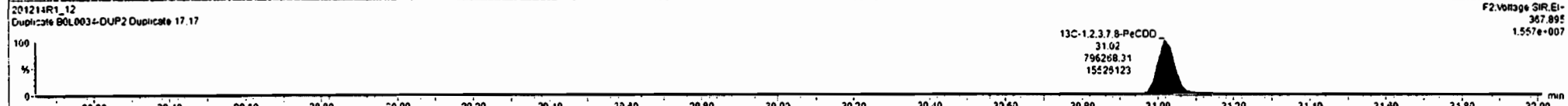
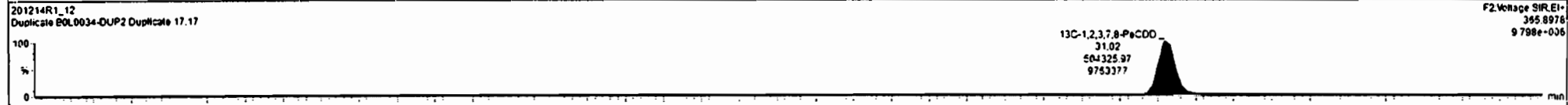
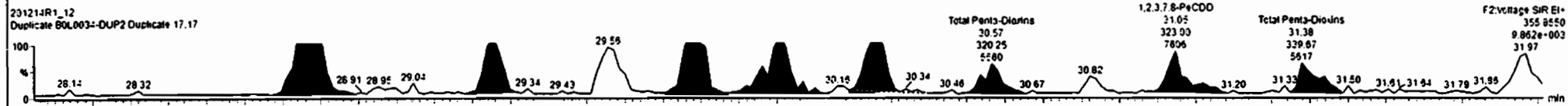
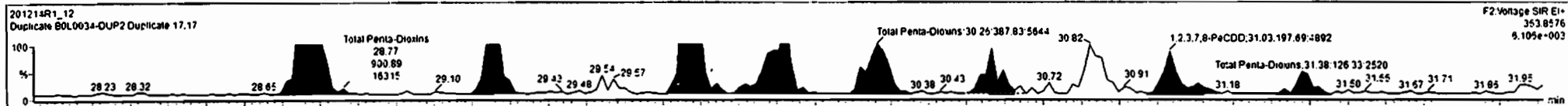


201214R1_12



Name	Resp	RA	n/y	RRF	wt/vol	RT	RCT	Conc	%Rec	DL	EMPC
Total Tetra-Dioxins				0.980E	10.175			1.10		0.0223	1.18

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Dioxins	28.77	9.005e2	1.307e2	0.89	NO	0.358C4	0.35807
2 Total Penta-Dioxins	29.27	3.719e2	5.670e2	0.96	NO	0.15225	0.15225
3 Total Penta-Dioxins	29.78	8.963e2	8.437e2	1.08	YES	0.22301	0.00000
4 Total Penta-Dioxins	30.02	5.473e2	8.029e2	0.58	NO	0.21896	0.21896
5 Total Penta-Dioxins	30.26	3.878e2	6.795e2	0.57	NO	0.17309	0.17309
6 Total Penta-Dioxins	30.57	2.291e2	3.202e2	0.72	NO	0.029084	0.085084
7 1,2,3,7,8-PeCDD	31.03	1.977e2	3.200e2	0.61	NO	0.084437	0.084437
8 Total Penta-Dioxins	31.11	7.763e1	8.887e1	0.66	NO	0.023443	0.023443
9 Total Penta-Dioxins	31.38	1.263e2	3.397e2	0.37	YES	0.053008	0.00000



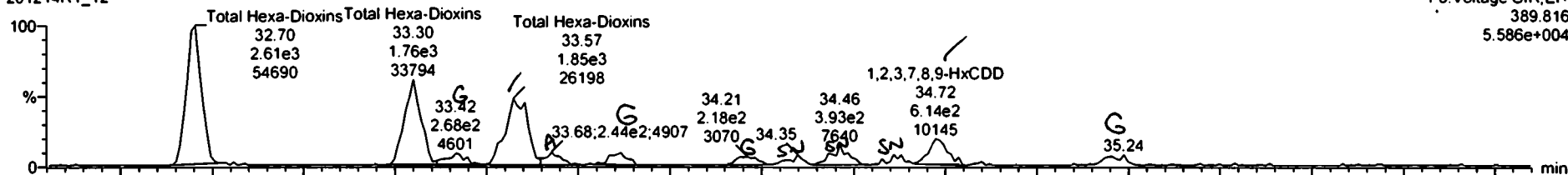
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Printed: Tuesday, December 15, 2020 7:04:33 AM Pacific Standard Time

Name: 201214R1_12, Date: 14-Dec-2020, Time: 19:06:26, ID: B0L0034-DUP2 Duplicate 17.17, Description: Duplicate

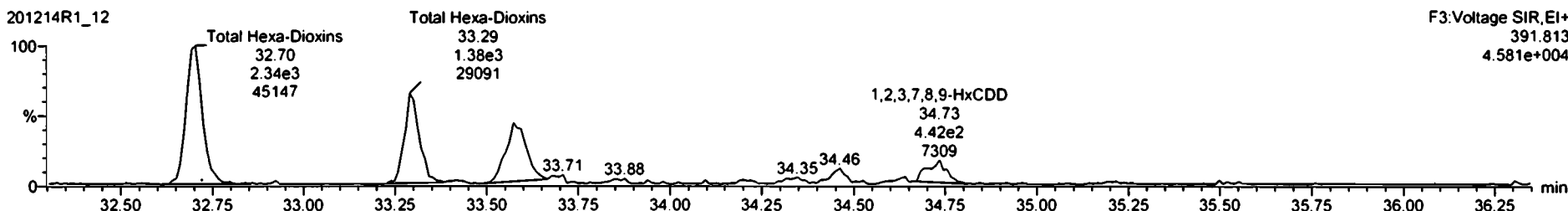
1,2,3,4,7,8-HxCDD

201214R1_12



F3: Voltage SIR, EI+
389.816
5.586e+004

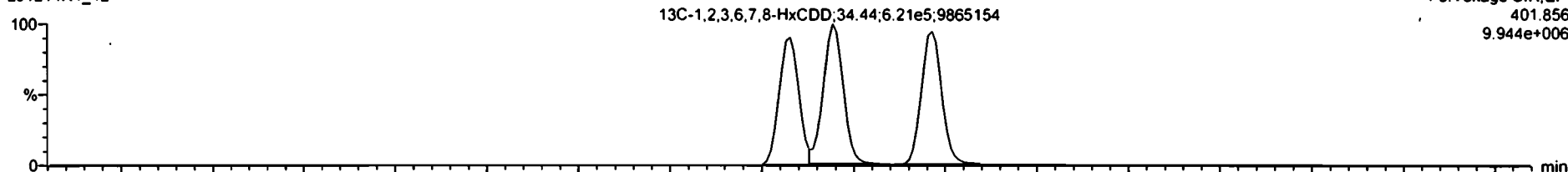
201214R1_12



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391.813
4.581e+004

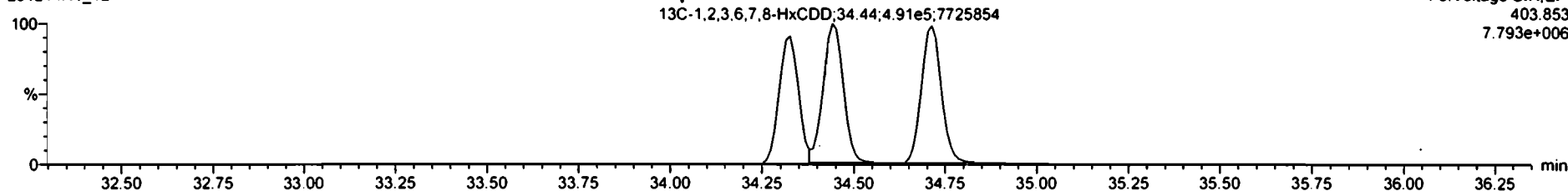
13C-1,2,3,4,7,8-HxCDD

201214R1_12



F3: Voltage SIR, EI+
401.856
9.944e+006

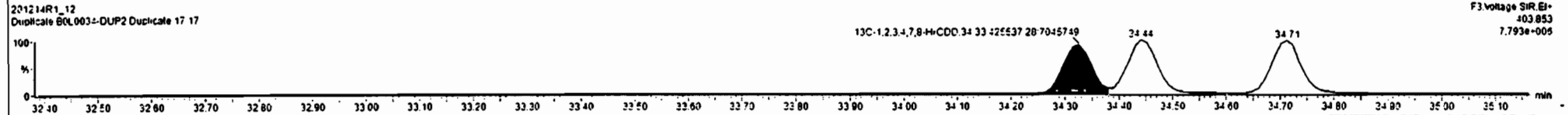
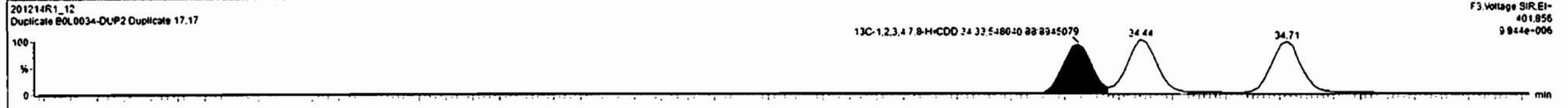
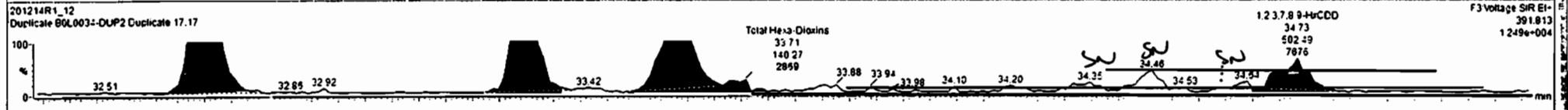
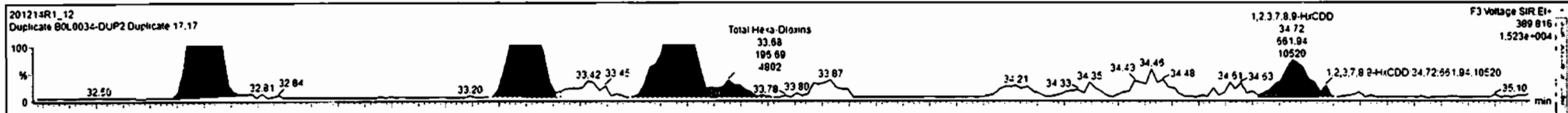
201214R1_12



F3: Voltage SIR, EI+
403.853
7.793e+006

#	Name	Resp	RA	ny	RF	wt/vol	RT	RRT	Conc.	%Rec	DL	EUPC
41	Total Hexa-Dioxins				0.6025	10.175			2.61		0.0646	2.61

#	Name	RT ₁	m1 Resp	m2 Resp	RA	ny	EUPC	Conc
1	Total Hexa-Corone	32.70	2.627e3	2.264e3	1.14	NO	1.0096	1.0096
2	Total Hexa-Corone	33.30	1.731e3	1.407e3	1.23	NO	0.64729	0.64729
3	Total Hexa-Corone	33.57	1.873e3	1.321e3	1.38	NO	0.66706	0.66706
4	Total Hexa-Corone	33.28	1.967e3	1.423e3	1.40	NO	0.69915	0.69915
5	1,2,3,7,8,9-HxCDD	34.72	6.619e2	5.075e2	1.32	NO	0.22177	0.22177



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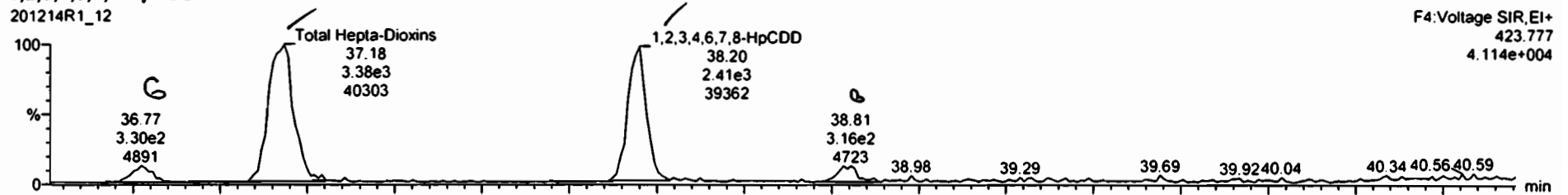
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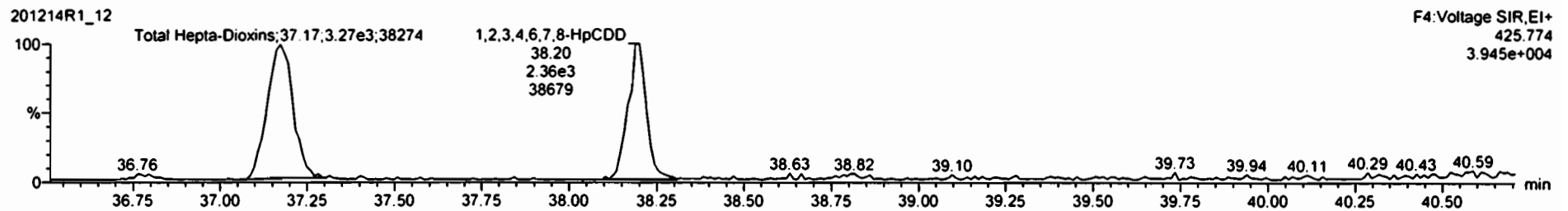
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1,2,3,4,6,7,8-HpCDD

201214R1_12



201214R1_12

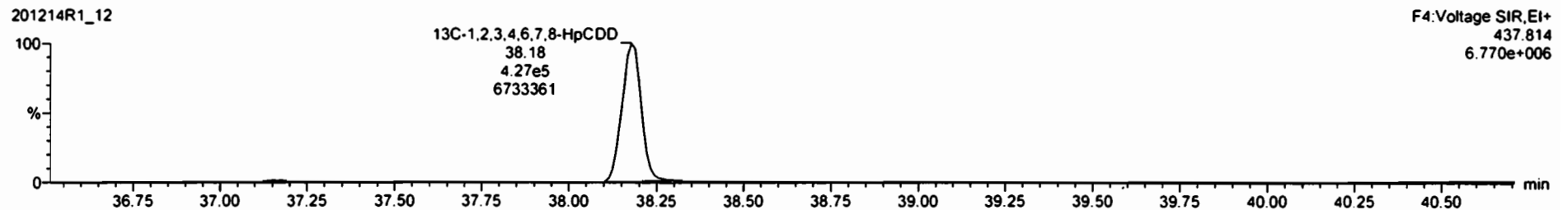


13C-1,2,3,4,6,7,8-HpCDD

201214R1_12



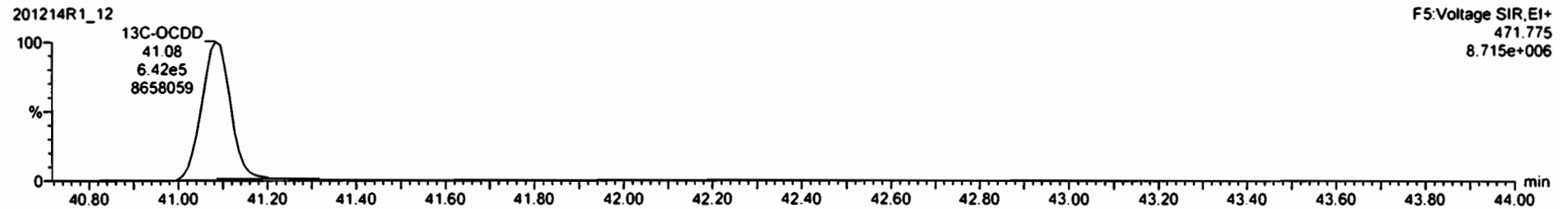
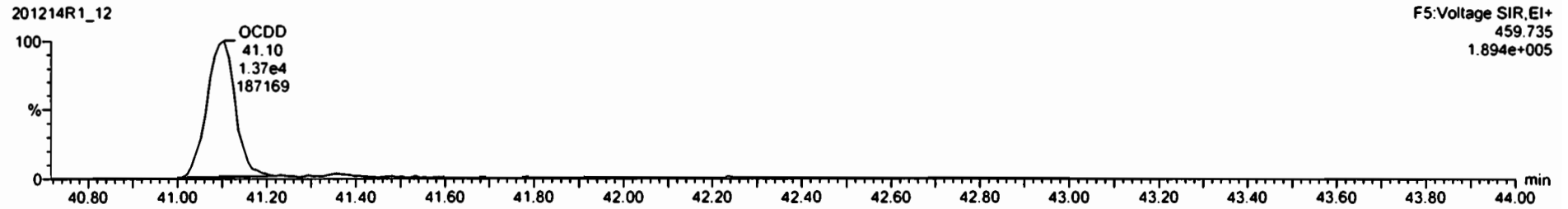
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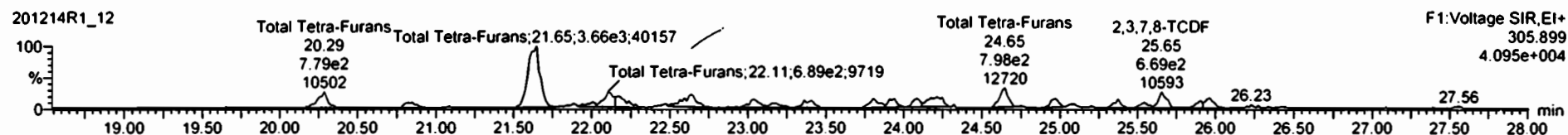
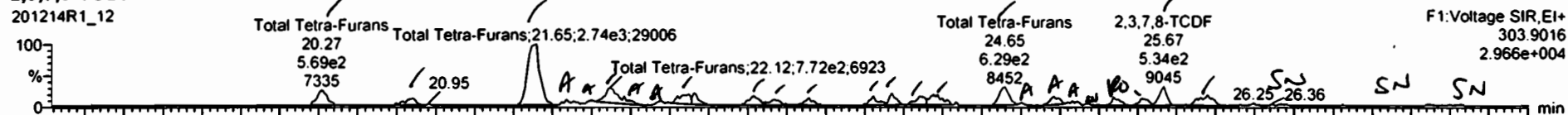


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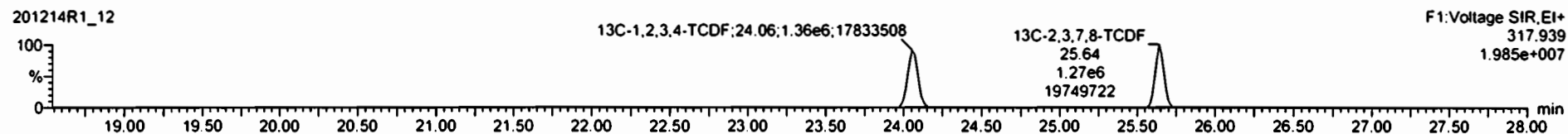
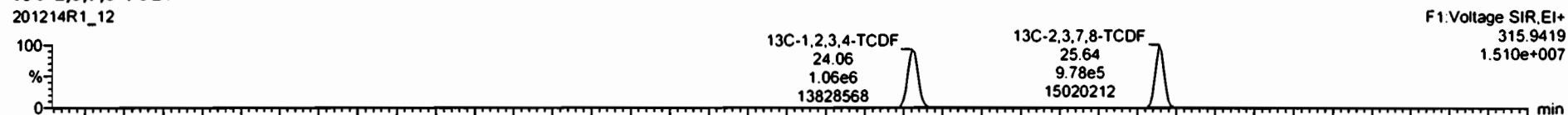
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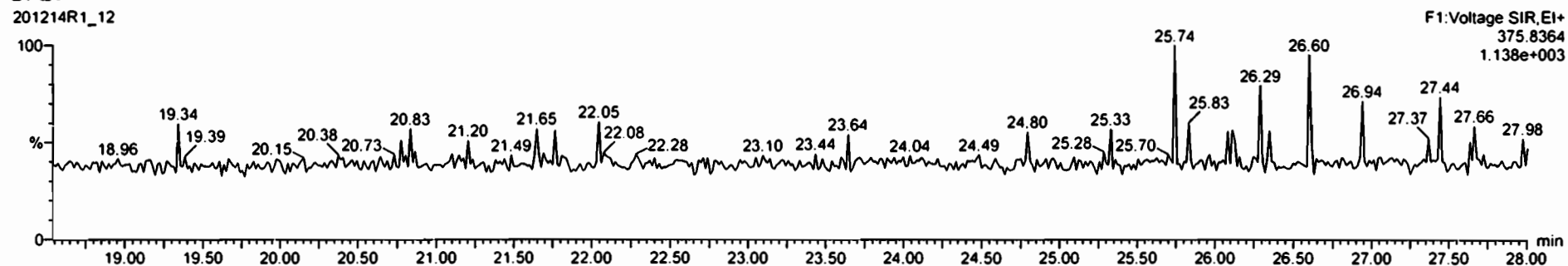
2,3,7,8-TCDF



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

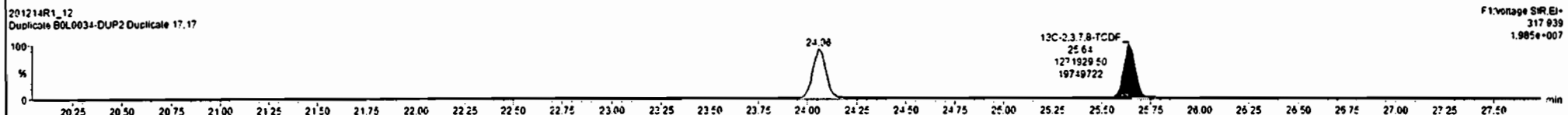
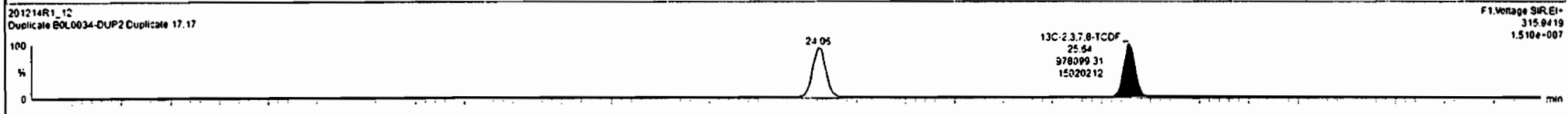
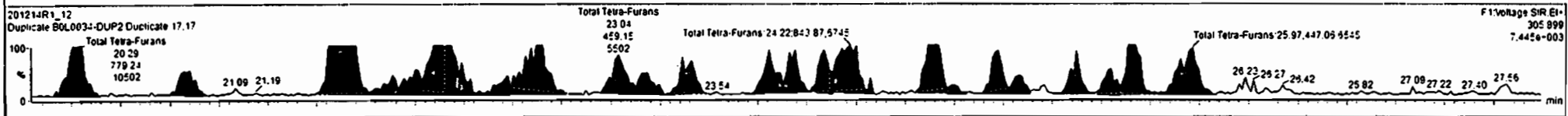
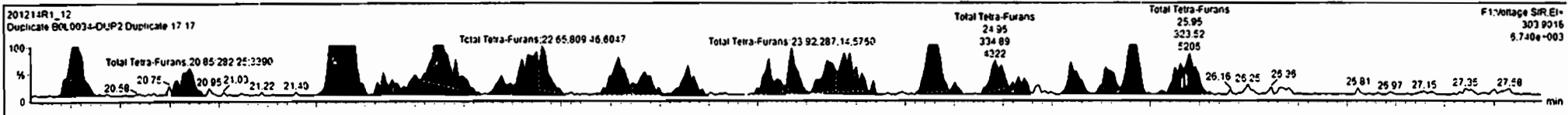


DPE1



Name	Reso	RA	nly	RPF	wt/wt	RT	RRT	Conc.	%Rec	DL	EUPC
43 Total Tetra-Furans				0.6480	10.175			2.45		0.0287	2.62

Name	RT1	m1 Resp	m2 Resp	RA	nly	EUPC	Conc
10 Total Tetra-Furans	23.04	3.783e2	4.552e2	0.23	NO	0.026384	0.066381
11 Total Tetra-Furans	23.17	2.050e2	2.602e2	0.70	NO	0.047817	0.047917
12 Total Tetra-Furans	23.39	2.780e2	4.059e2	0.69	NO	0.070359	0.070359
13 Total Tetra-Furans	23.81	2.985e2	4.274e2	0.70	NO	0.074655	0.074655
14 Total Tetra-Furans	23.92	2.871e2	3.630e2	0.75	NO	0.089035	0.086035
15 Total Tetra-Furans	24.10	3.129e2	3.925e2	0.80	NO	0.072778	0.072778
16 Total Tetra-Furans	24.22	5.827e2	6.439e2	0.67	NO	0.14491	0.14491
17 Total Tetra-Furans	24.65	6.045e2	6.497e2	0.78	NO	0.15595	0.15595
18 Total Tetra-Furans	24.75	1.572e1	7.153e1	0.78	NO	0.013110	0.013110
19 Total Tetra-Furans	24.96	3.349e2	4.138e2	0.81	NO	0.077129	0.077129
20 Total Tetra-Furans	25.08	1.480e2	1.784e2	0.84	NO	0.033731	0.033731
21 Total Tetra-Furans	25.34	2.494e2	3.212e2	0.78	NO	0.058790	0.058790
22 Total Tetra-Furans	25.52	2.402e2	2.030e2	0.96	YES	0.041860	0.02060
23 2,3,7,8-TCDF	25.67	5.239e2	6.680e2	0.80	NO	0.12382	0.12382
24 Total Tetra-Furans	25.91	2.150e2	2.536e2	0.85	NO	0.048274	0.048274
25 Total Tetra-Furans	25.95	3.235e2	4.479e2	0.72	NO	0.076388	0.02000



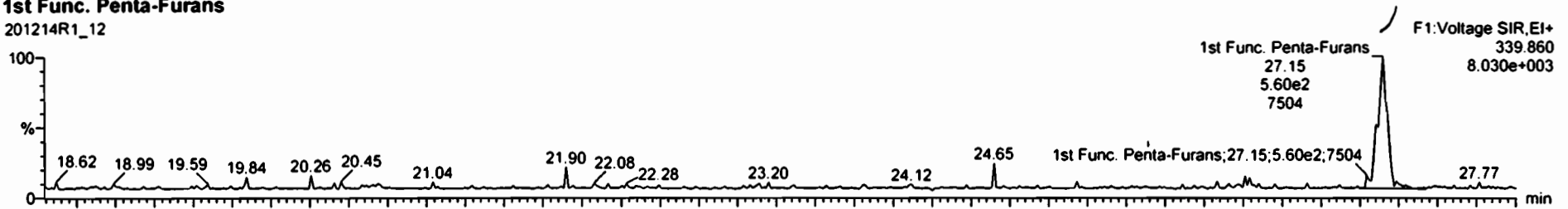
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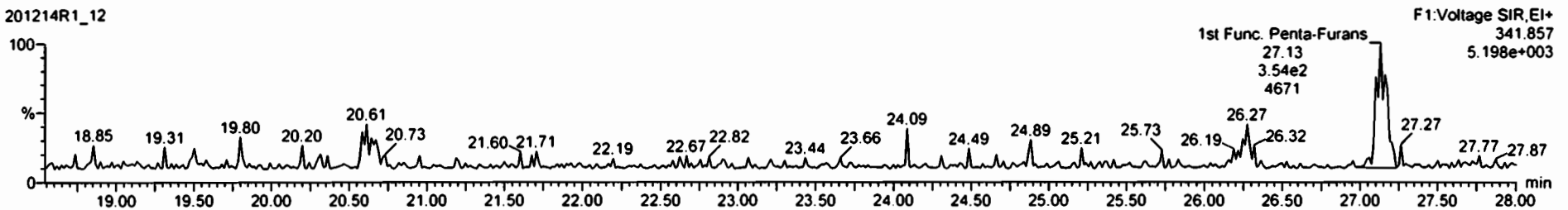
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1st Func. Penta-Furans

201214R1_12

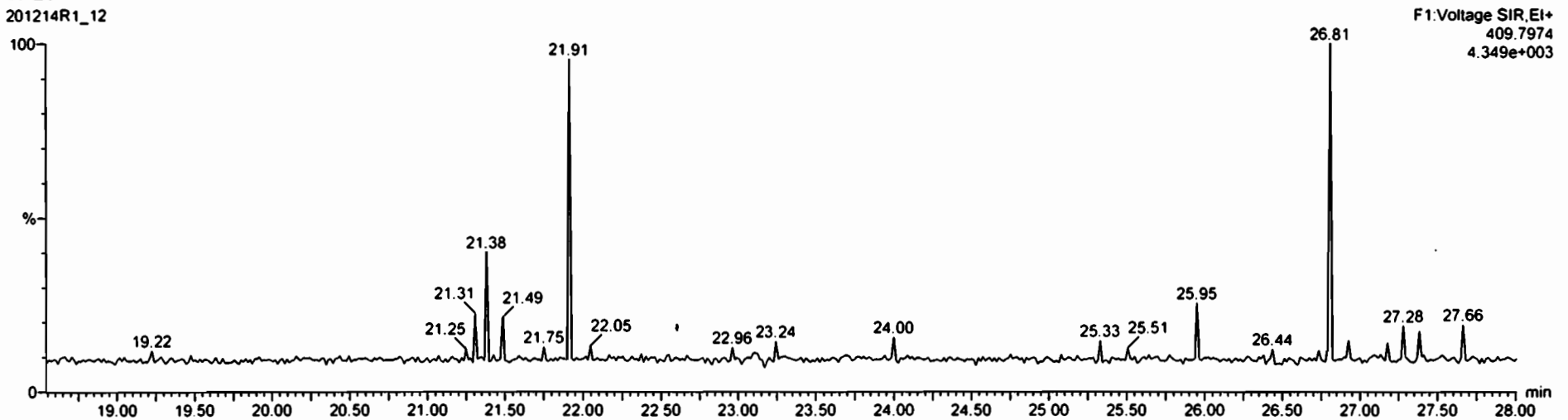


201214R1_12



DPE6

201214R1_12

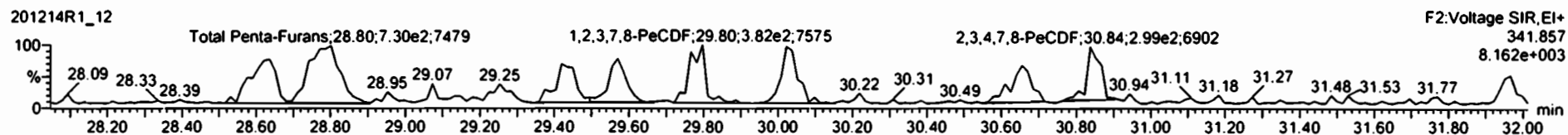
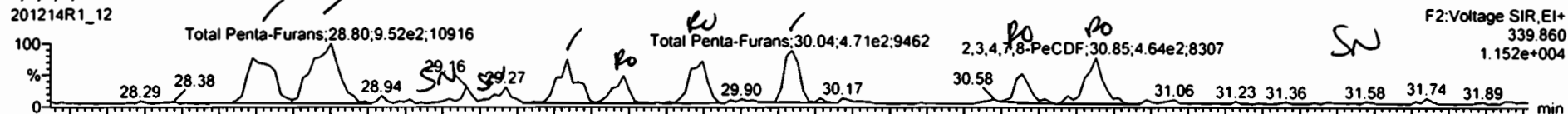


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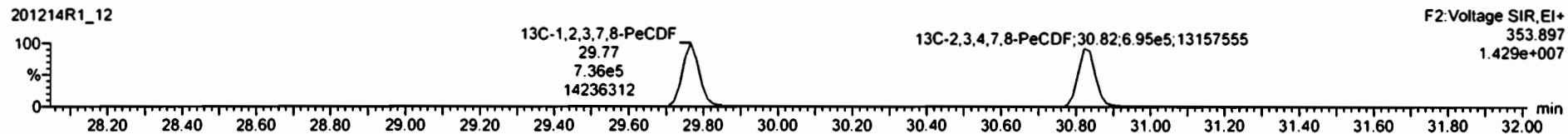
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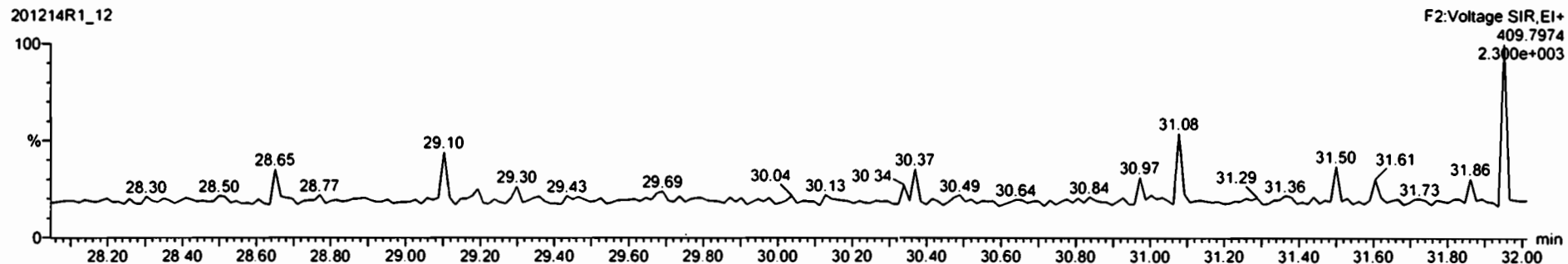
1,2,3,7,8-PeCDF



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

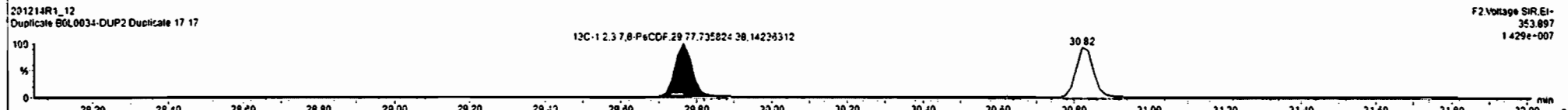
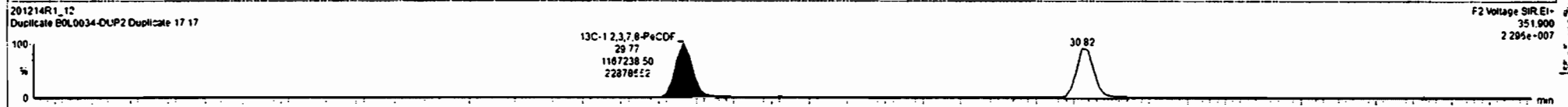
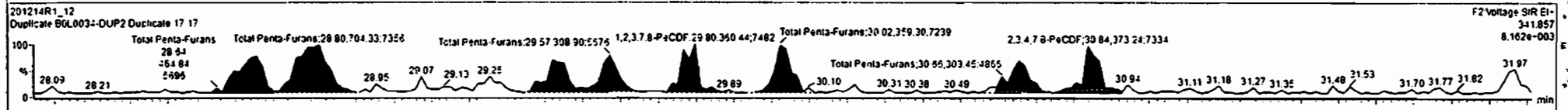
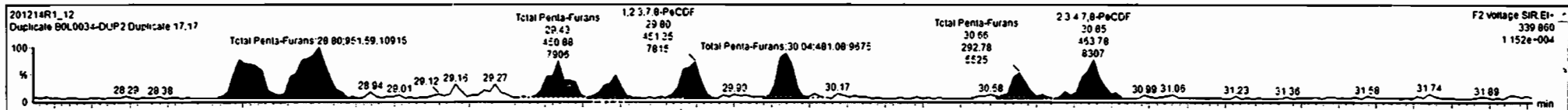


DPE2



Name	Resp	RA	ny	RRF	wtval	RT	RRT	Conc	%Rec	DL	EWPC
45	Total Penta-Furans			0.9597	10.175			0.488		0.0331	0.742

Name	RT/	m1 Resp	m2 Resp	RA	ny	EWPC	Conc.
1	Total Penta-Furans	28.59	6.502e2	4.678e2	1.48	NO	0.12740
2	Total Penta-Furans	28.80	9.516e2	7.013e2	1.75	NO	0.18265
3	Total Penta-Furans	29.43	4.505e2	3.299e2	1.37	NO	0.086125
4	Total Penta-Furans	29.59	2.411e2	3.009e2	0.78	YES	0.043864
5	1,2,3,7,8-PeCDF	29.80	4.511e2	3.804e2	1.25	YES	0.079820
6	Total Penta-Furans	30.94	4.811e2	3.593e2	1.34	NO	0.092696
7	Total Penta-Furans	30.66	2.928e2	3.031e2	0.96	YES	0.053129
8	2,3,4,7,8-PeCDF	30.85	4.635e2	3.732e2	1.24	YES	0.077612

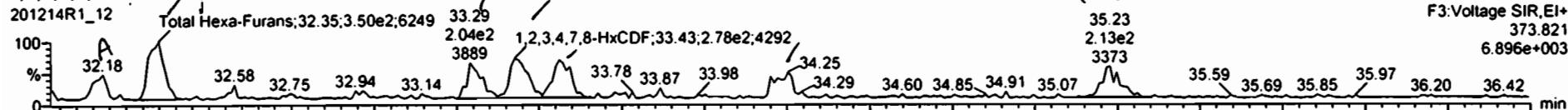


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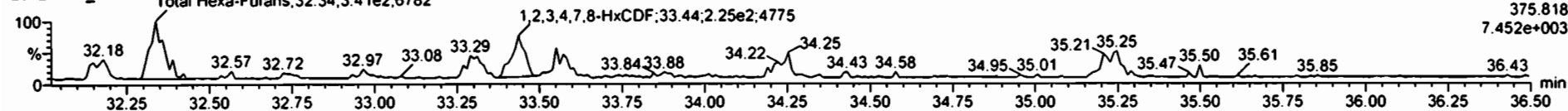
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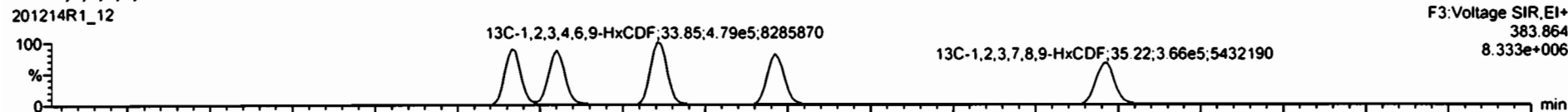
1,2,3,4,7,8-HxCDF



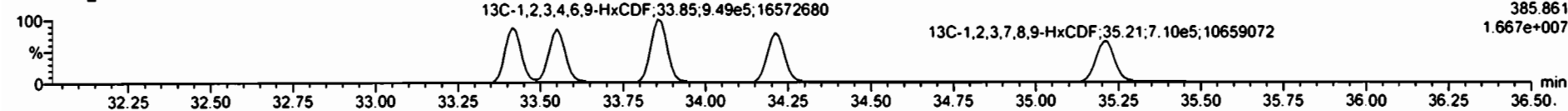
201214R1_12



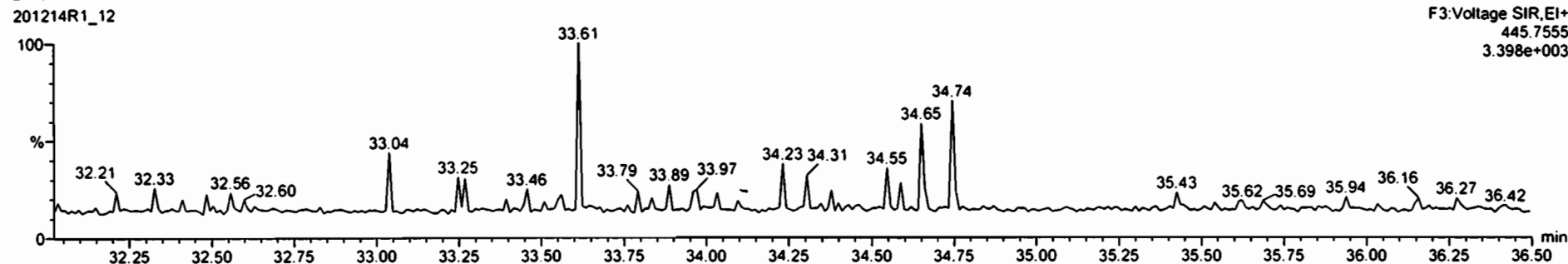
13C-1,2,3,4,7,8-HxCDF



201214R1_12



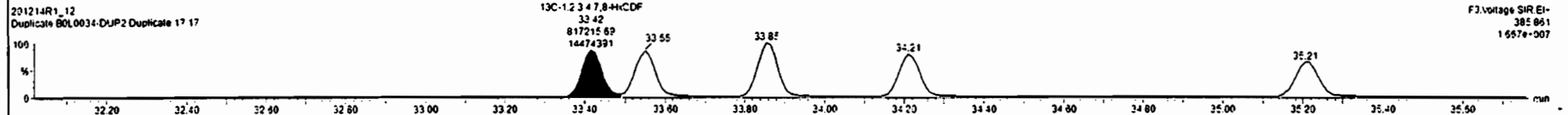
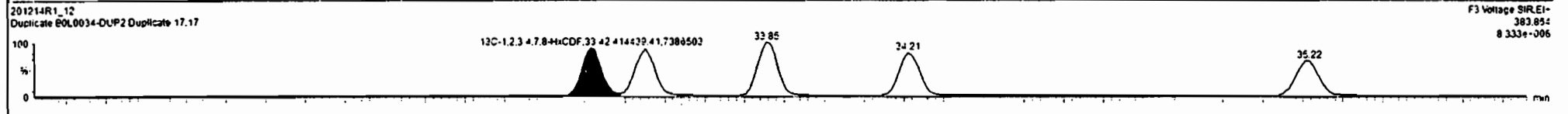
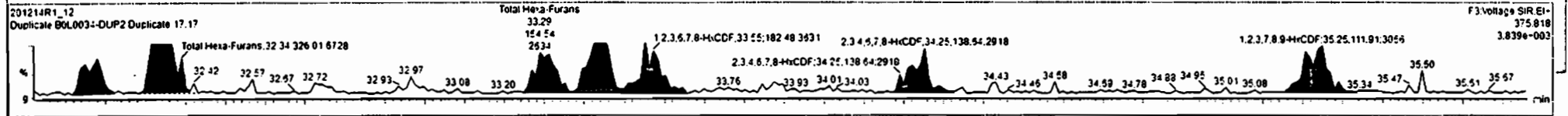
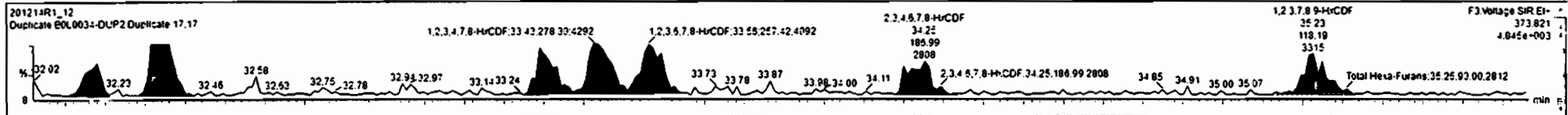
DPE3



201214R1_12 - BOL0034-DUP2 Duplicate 17 17 - Duplicate

Name	Resp	RA	n/y	RRF	wt%of	RT	RAT	Conc.	%Rec	DL	EMPC
Total Penta-Furans	0.9597	10.175						0.489	0.0331	0.743	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
Total Hexa-Furans	32.18	1.325e2	1.241e2	1.07	NO	0.022144	0.042144
Total Hexa-Furans	32.35	3.503e2	3.200e2	1.07	NO	0.110502	0.110502
Total Hexa-Furans	33.29	2.038e2	1.545e2	1.22	NO	0.050770	0.050770
1,2,3,4,7,8-HxCDF	33.43	2.783e2	2.309e2	1.16	NO	0.083722	0.083722
1,2,3,6,7,8-HxCDF	33.56	2.574e2	1.675e2	1.41	NO	0.090433	0.090433
2,3,4,6,7,8-HxCDF	34.25	1.870e2	1.306e2	1.25	NO	0.053255	0.053255
1,2,3,7,8,9-HxCDF	35.23	1.182e2	1.119e2	1.06	NO	0.042428	0.042428
Total Hexa-Furans	35.25	9.300e1	8.650e1	1.07	NO	0.026450	0.026450



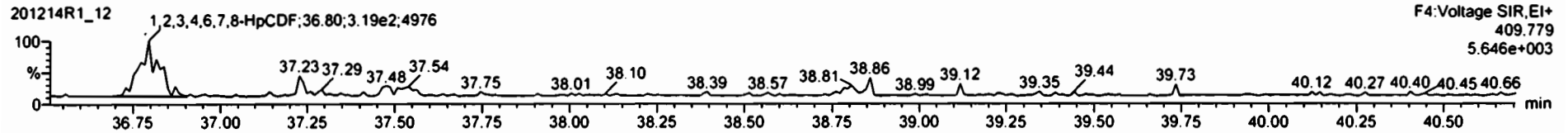
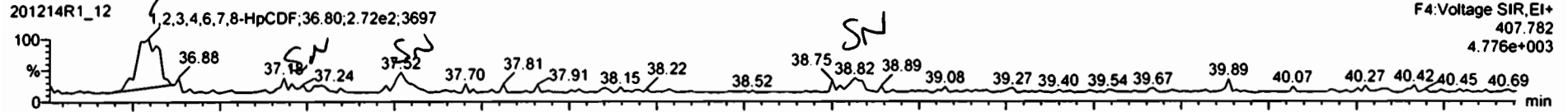
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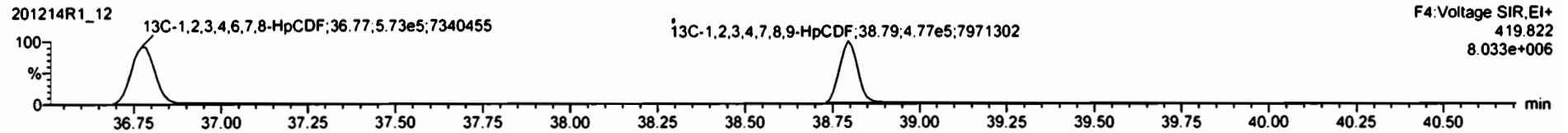
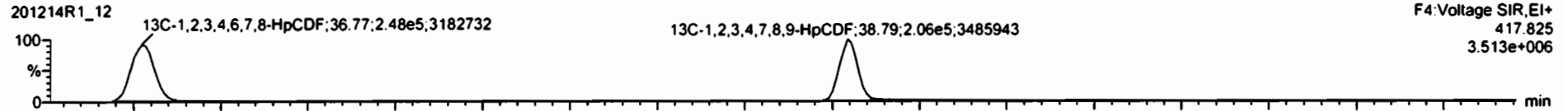
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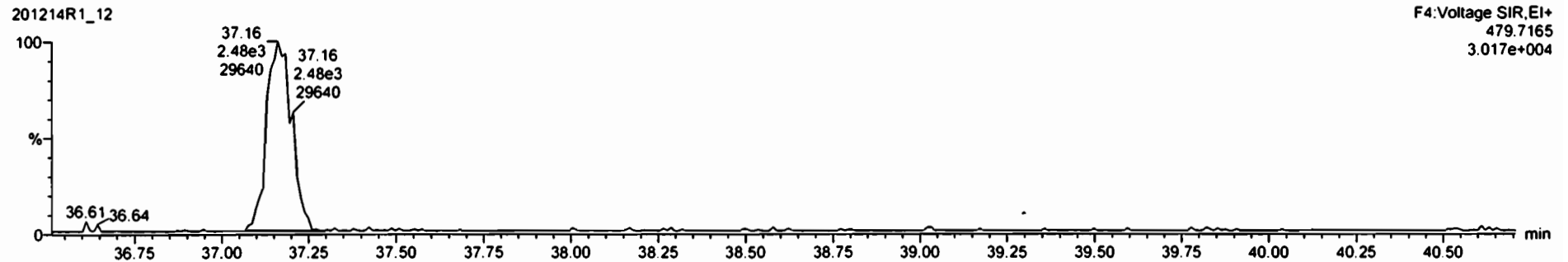
1,2,3,4,6,7,8-HpCDF

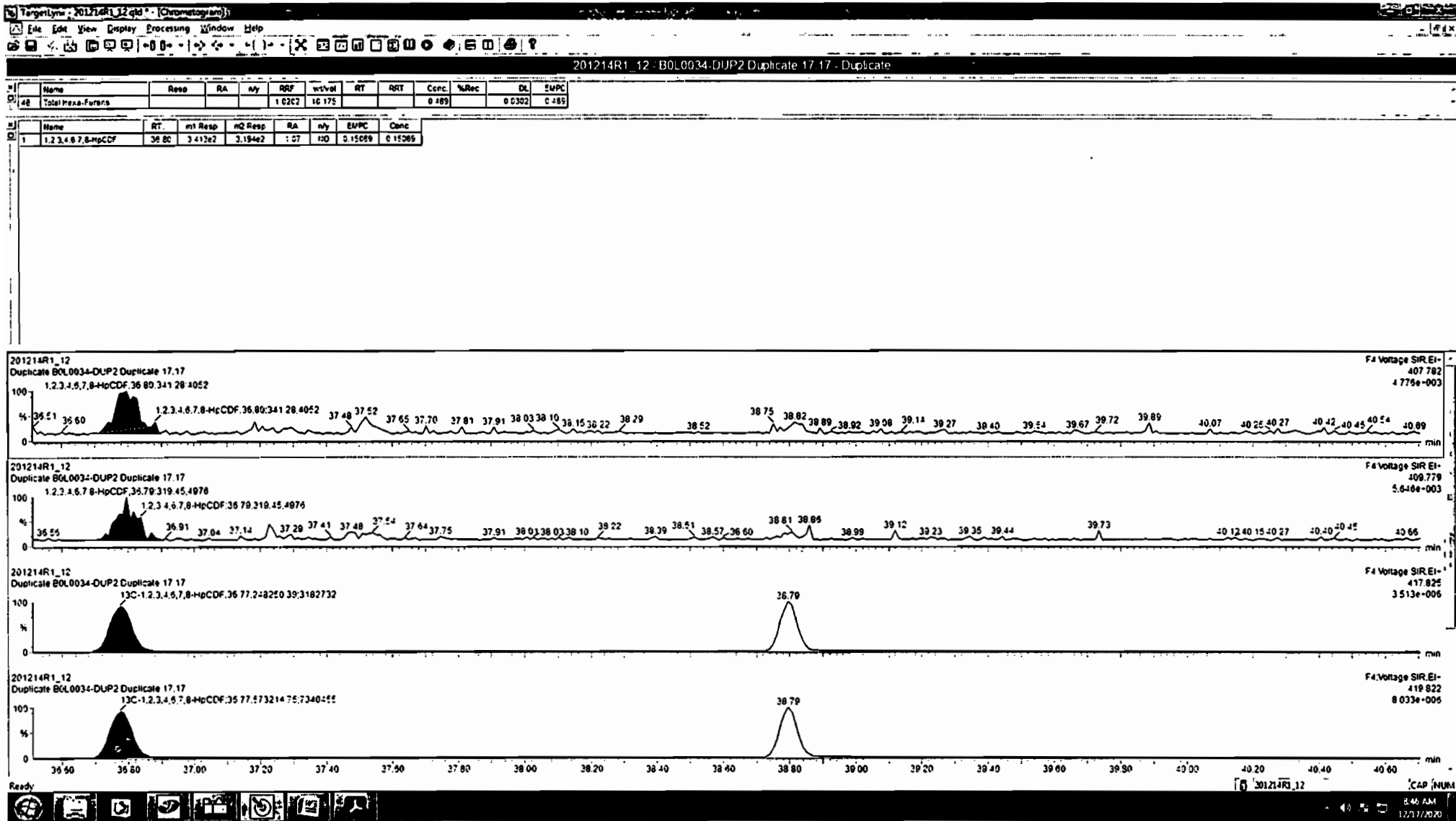


13C-1,2,3,4,6,7,8-HpCDF



DPE4



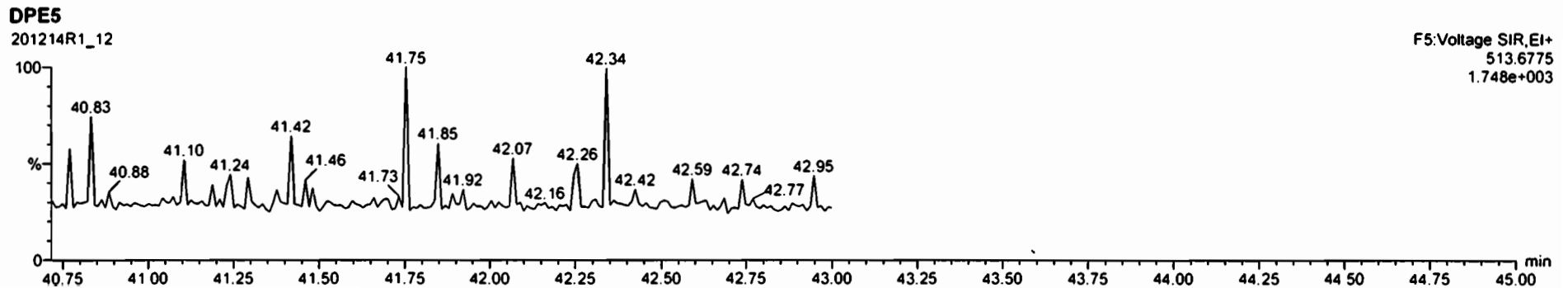
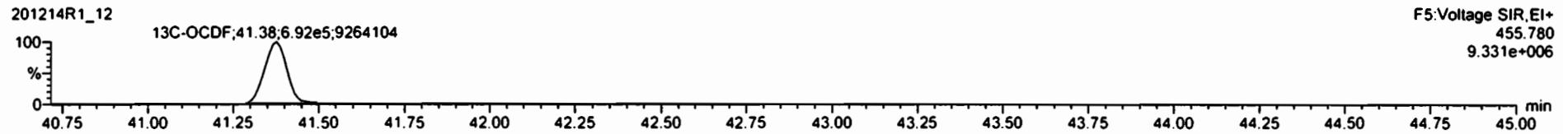
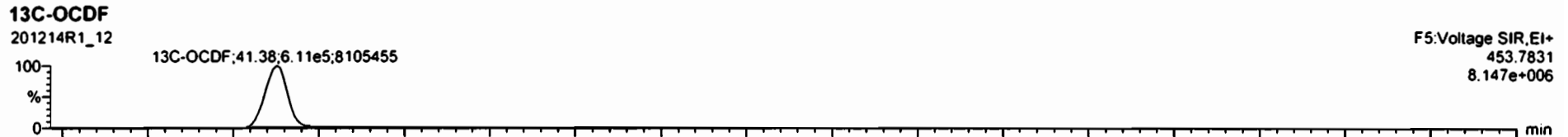
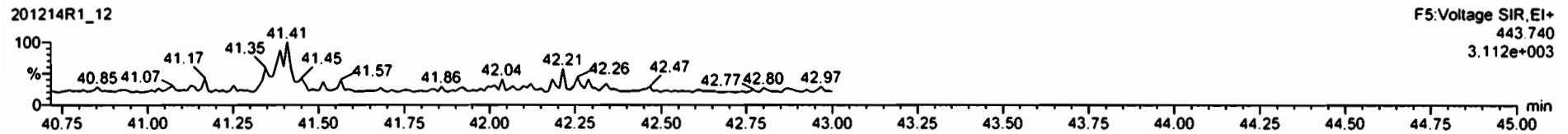
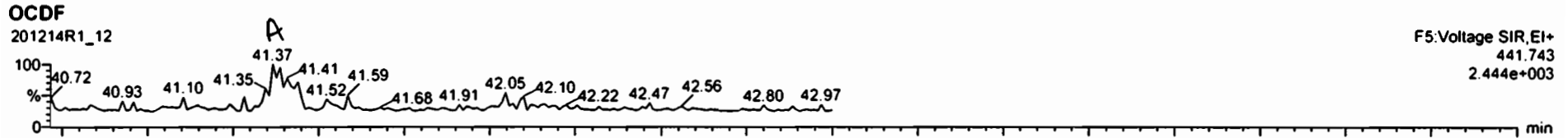


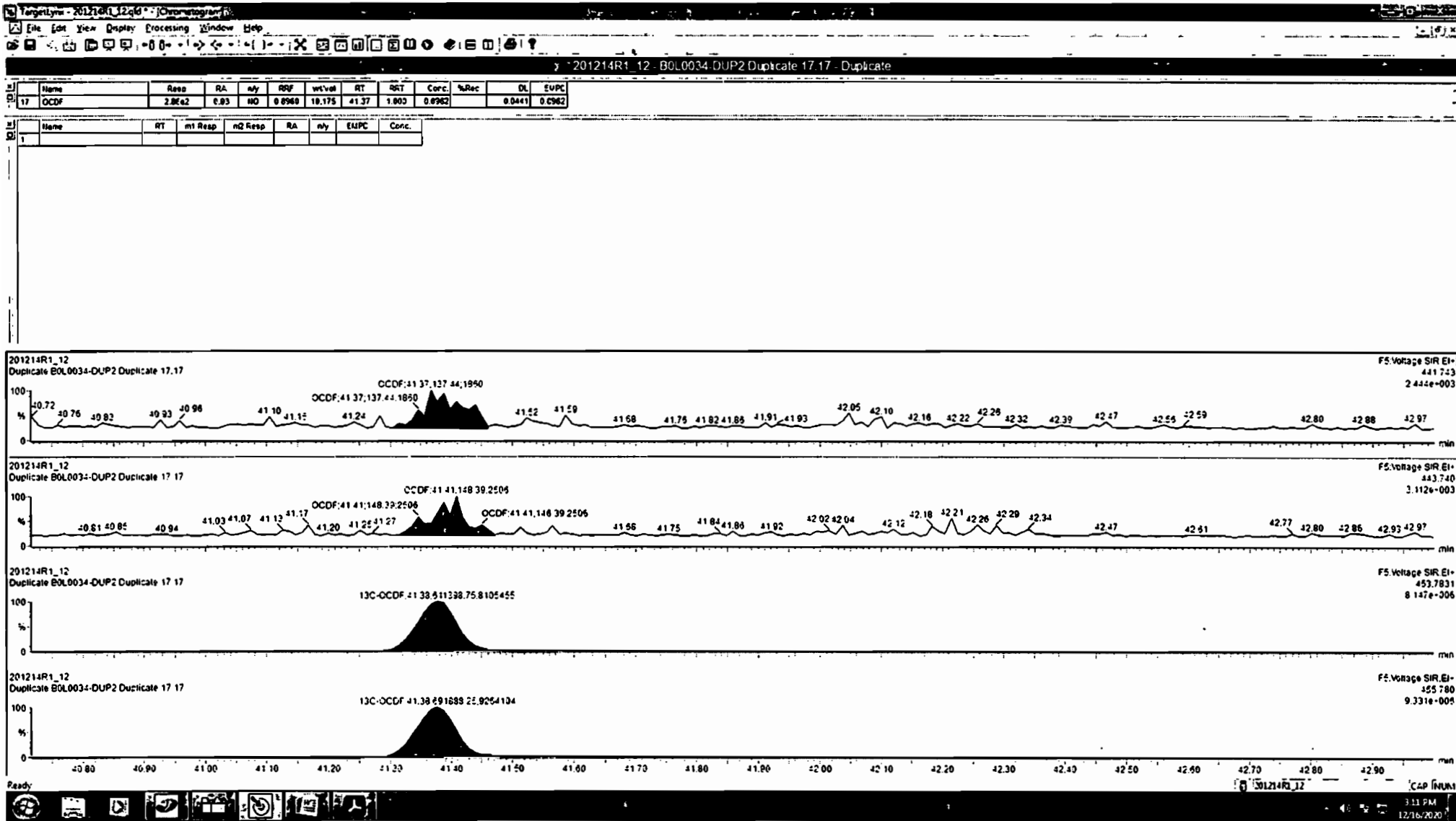
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Last Altered: Tuesday, December 15, 2020 6:59:17 AM Pacific Standard Time

Printed: Tuesday, December 15, 2020 7:04:33 AM Pacific Standard Time

Name: 201214R1_12, Date: 14-Dec-2020, Time: 19:06:26, ID: B0L0034-DUP2 Duplicate 17.17, Description: Duplicate



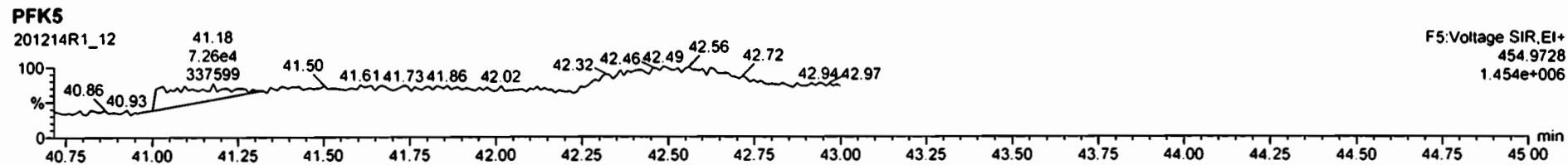
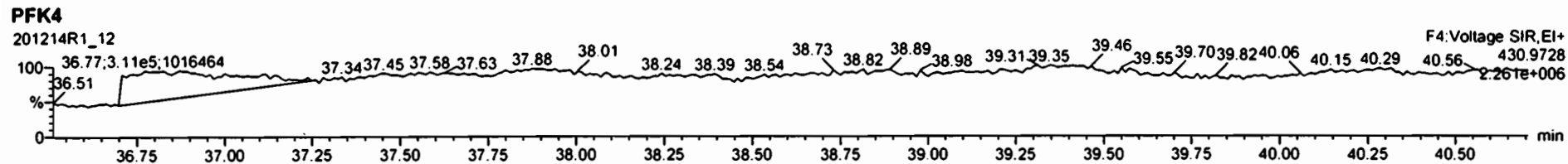
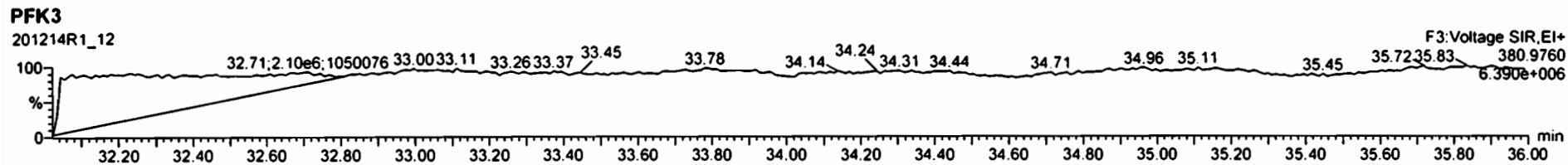
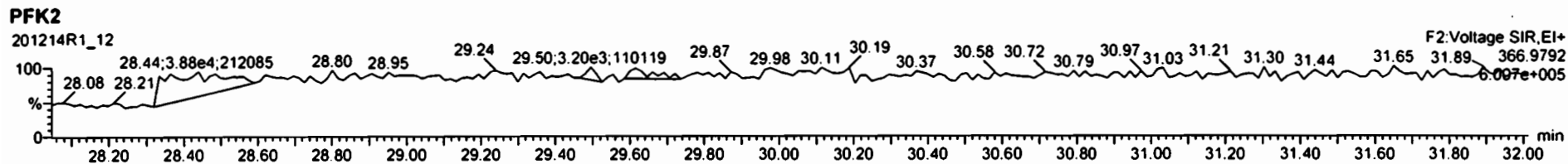
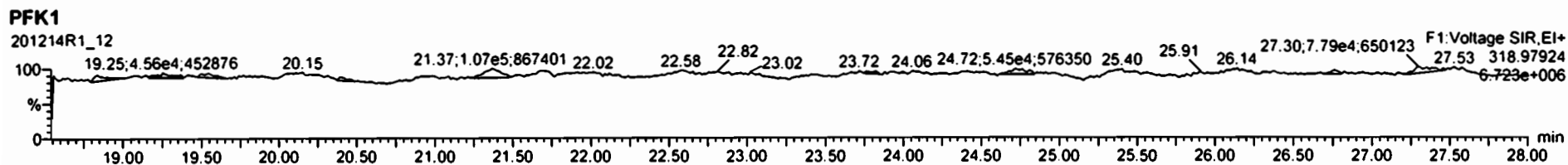


Dataset: Untitled

Last Altered: Tuesday, December 15, 2020 6:59:17 AM Pacific Standard Time

Printed: Tuesday, December 15, 2020 7:04:33 AM Pacific Standard Time

Name: 201214R1_12, Date: 14-Dec-2020, Time: 19:06:26, ID: B0L0034-DUP2 Duplicate 17.17, Description: Duplicate



Dataset: U:\VG12.PRO\Results\201215R2\201215R2_8B.qld

Last Altered: Sunday, December 20, 2020 9:20:44 AM Pacific Standard Time
Printed: Sunday, December 20, 2020 9:20:59 AM Pacific Standard Time

GPB 12/20/2020

CT 12/21/2020

Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201215R2_8, Date: 15-Dec-2020, Time: 22:15:06, ID: 2002535-04 USMPDI-009SC-A-06-07-201112 15.33, Description: USMPDI-009SC-A-06-07-201112

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD			NO	0.960	10.031	26.381		1.001				0.0239	
2	1,2,3,7,8-PeCDD			NO	0.932	10.031	31.064		1.001				0.0356	
3	1,2,3,4,7,8-HxCDD			NO	1.02	10.031	34.368		1.001				0.0380	
4	1,2,3,6,7,8-HxCDD			NO	0.902	10.031	34.483		1.001				0.0232	
5	1,2,3,7,8,9-HxCDD			NO	0.954	10.031	34.734		1.000				0.0397	
6	1,2,3,4,6,7,8-HpCDD	1.58e3	1.06	NO	0.918	10.031	38.211	38.22	1.000	1.001	0.46497		0.0749	0.465
7	OCDD	7.57e3	0.84	NO	0.866	10.031	41.134	41.14	1.000	1.000	3.2407		0.111	3.24
8	2,3,7,8-TCDF			NO	0.848	10.031	25.657		1.000				0.0254	
9	1,2,3,7,8-PeCDF	2.72e2	1.49	NO	0.960	10.031	29.785	29.80	1.000	1.001	0.033897		0.0123	0.0339
10	2,3,4,7,8-PeCDF	2.39e2	1.54	NO	1.07	10.031	30.859	30.85	1.001	1.000	0.030352		0.0130	0.0304
11	1,2,3,4,7,8-HxCDF	1.77e2	1.35	NO	0.986	10.031	33.446	33.46	1.000	1.001	0.034355		0.00943	0.0344
12	1,2,3,6,7,8-HxCDF			NO	1.04	10.031	33.592		1.001				0.0180	
13	2,3,4,6,7,8-HxCDF			NO	1.02	10.031	34.253		1.001				0.0205	
14	1,2,3,7,8,9-HxCDF			NO	0.991	10.031	35.238		1.000				0.0244	
15	1,2,3,4,6,7,8-HpCDF			NO	1.05	10.031	36.814		1.000				0.0354	
16	1,2,3,4,7,8,9-HpCDF			NO	1.18	10.031	38.839		1.000				0.0304	
17	OCDF	2.77e2	1.01	NO	0.896	10.031	41.427	41.41	1.000	1.000	0.11065		0.0697	0.111
18	13C-2,3,7,8-TCDD	1.45e6	0.77	NO	1.06	10.031	26.353	26.35	1.030	1.030	212.54	107	0.0910	
19	13C-1,2,3,7,8-PeCDD	1.27e6	0.63	NO	0.785	10.031	31.192	31.03	1.219	1.213	249.98	125	0.168	
20	13C-1,2,3,4,7,8-HxCDD	8.91e5	1.27	NO	0.621	10.031	34.337	34.35	1.014	1.014	252.21	126	0.395	
21	13C-1,2,3,6,7,8-HxCDD	1.00e6	1.26	NO	0.734	10.031	34.459	34.46	1.017	1.017	239.78	120	0.334	
22	13C-1,2,3,7,8,9-HxCDD	9.74e5	1.25	NO	0.723	10.031	34.743	34.72	1.026	1.025	236.82	119	0.339	
23	13C-1,2,3,4,6,7,8-HpCDD	7.36e5	1.05	NO	0.568	10.031	38.243	38.20	1.129	1.128	227.90	114	0.779	
24	13C-OCDD	1.08e6	0.88	NO	0.496	10.031	41.180	41.13	1.216	1.214	381.08	95.6	0.529	
25	13C-2,3,7,8-TCDF	1.81e6	0.76	NO	0.919	10.031	25.652	25.65	1.003	1.003	219.14	110	0.122	
26	13C-1,2,3,7,8-PeCDF	1.67e6	1.56	NO	0.715	10.031	29.903	29.78	1.169	1.164	259.02	130	0.299	
27	13C-2,3,4,7,8-PeCDF	1.47e6	1.56	NO	0.689	10.031	30.990	30.84	1.212	1.206	237.61	119	0.311	
28	13C-1,2,3,4,7,8-HxCDF	1.04e6	0.50	NO	0.873	10.031	33.442	33.44	0.987	0.987	210.03	105	0.393	
29	13C-1,2,3,6,7,8-HxCDF	1.05e6	0.50	NO	0.933	10.031	33.571	33.57	0.991	0.991	198.17	99.4	0.368	
30	13C-2,3,4,6,7,8-HxCDF	1.00e6	0.50	NO	0.843	10.031	34.238	34.23	1.011	1.011	209.20	105	0.407	
31	13C-1,2,3,7,8,9-HxCDF	9.08e5	0.50	NO	0.780	10.031	35.238	35.23	1.040	1.040	204.46	103	0.440	

Dataset: U:\VG12.PRO\Results\201215R2\201215R2_8B.qld

Last Altered: Sunday, December 20, 2020 9:20:44 AM Pacific Standard Time
Printed: Sunday, December 20, 2020 9:20:59 AM Pacific Standard Time

Name: 201215R2_8, Date: 15-Dec-2020, Time: 22:15:06, ID: 2002535-04 USMPDI-009SC-A-06-07-201112 15.33, Description: USMPDI-009SC-A-06-07-201112

#	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	6.89e5	0.43	NO	0.726	10.031	36.813	36.80	1.087	1.086	166.67	83.6	0.495	
33	13C-1,2,3,4,7,8,9-HpCDF	5.65e5	0.43	NO	0.491	10.031	38.822	38.83	1.146	1.146	202.07	101	0.732	
34	13C-OCDF	1.11e6	0.86	NO	0.565	10.031	41.396	41.42	1.222	1.223	346.38	86.9	0.427	
35	37Cl-2,3,7,8-TCDD	6.43e5			1.22	10.031	26.347	26.36	1.030	1.031	81.888	103	0.0205	
36	13C-1,2,3,4-TCDD	1.29e6	0.78	NO	1.00	10.031	25.640	25.58	1.000	1.000	199.39	100	0.0960	
37	13C-1,2,3,4-TCDF	1.79e6	0.78	NO	1.00	10.031	24.130	24.07	1.000	1.000	199.39	100	0.112	
38	13C-1,2,3,4,6,9-HxCDF	1.13e6	0.50	NO	1.00	10.031	33.920	33.88	1.000	1.000	199.39	100	0.343	
39	Total Tetra-Dioxins				0.980	10.031	24.620		0.000		0.00000		0.0239	0.188
40	Total Penta-Dioxins				0.932	10.031	29.960		0.000		0.053399		0.0161	0.0938
41	Total Hexa-Dioxins				0.902	10.031	33.635		0.000		0.34298		0.0412	0.555
42	Total Hepta-Dioxins				0.918	10.031	37.640		0.000		1.0544		0.0749	1.05
43	Total Tetra-Furans				0.848	10.031	23.610		0.000		0.22995		0.0254	0.230
44	1st Func. Penta-Furans				0.960	10.031	26.930		0.000				0.00787	
45	Total Penta-Furans				0.960	10.031	29.275		0.000		0.092422		0.0133	0.118
46	Total Hexa-Furans				1.02	10.031	33.555		0.000		0.066191		0.0100	0.0662
47	Total Hepta-Furans				1.05	10.031	37.835		0.000				0.0187	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201215R2\201215R2_8B.qld

Last Altered: Sunday, December 20, 2020 9:20:44 AM Pacific Standard Time

Printed: Sunday, December 20, 2020 9:20:59 AM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32

Calibration: U:\VG12.PRO\CurveDB\ldbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201215R2_8, Date: 15-Dec-2020, Time: 22:15:06, ID: 2002535-04 USMPDI-009SC-A-06-07-201112 15.33, Description: USMPDI-009SC-A-06-07-201112

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 Total Tetra-Dioxins	22.52	2.224e3	3.227e3	1.889e2	2.192e2	0.86	NO	0.000e0	0.00000	0.057319	0.0239
2 Total Tetra-Dioxins	22.92	4.197e3	3.384e3	2.187e2	2.036e2	1.07	YES	0.000e0	0.00000	0.050619	0.0239
3 Total Tetra-Dioxins	24.26	3.016e3	6.547e3	2.494e2	3.870e2	0.64	YES	0.000e0	0.00000	0.080510	0.0239

Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 Total Penta-Dioxins	29.27	2.940e3	3.572e3	1.244e2	1.916e2	0.65	NO	3.160e2	0.053399	0.053399	0.0161
2 Total Penta-Dioxins	29.56	1.127e3	6.912e3	9.235e1	4.362e2	0.21	YES	0.000e0	0.00000	0.040379	0.0356

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 Total Hexa-Dioxins	32.70	1.322e4	1.108e4	6.545e2	5.507e2	1.19	NO	1.205e3	0.27867	0.27867	0.0412
2 Total Hexa-Dioxins	33.31	4.032e3	2.725e3	1.554e2	1.228e2	1.27	NO	2.781e2	0.064308	0.064308	0.0412
3 Total Hexa-Dioxins	33.58	9.976e3	6.476e3	6.711e2	4.102e2	1.64	YES	0.000e0	0.00000	0.21243	0.0412

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 Total Hepta-Dioxins	37.21	1.285e4	1.520e4	9.776e2	1.021e3	0.96	NO	1.999e3	0.58946	0.58946	0.0749
2 1,2,3,4,6,7,8-HpCDD	38.22	1.380e4	1.302e4	8.109e2	7.657e2	1.06	NO	1.577e3	0.46497	0.46497	0.0749

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 Total Tetra-Furans	21.65	6.700e3	6.905e3	5.130e2	6.675e2	0.77	NO	1.180e3	0.15325	0.15325	0.0254
2 Total Tetra-Furans	24.65	4.245e3	4.334e3	2.618e2	3.289e2	0.80	NO	5.908e2	0.076695	0.076695	0.0254

Dataset: U:\VG12.PRO\Results\201215R2\201215R2_8B.qld

Last Altered: Sunday, December 20, 2020 9:20:44 AM Pacific Standard Time
 Printed: Sunday, December 20, 2020 9:20:59 AM Pacific Standard Time

Name: 201215R2_8, Date: 15-Dec-2020, Time: 22:15:06, ID: 2002535-04 USMPDI-009SC-A-06-07-201112 15.33, Description: USMPDI-009SC-A-06-07-201112

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 1,2,3,7,8-PeCDF	29.80	3.386e3	2.474e3	1.628e2	1.090e2	1.49	NO	2.718e2	0.033897	0.033897	0.0123
2 Total Penta-Furans	30.05	3.996e3	1.394e3	1.564e2	7.568e1	2.07	YES	0.000e0	0.00000	0.025561	0.0133
3 Total Penta-Furans	30.67	2.990e3	1.910e3	1.269e2	8.581e1	1.48	NO	2.127e2	0.028173	0.028173	0.0133
4 2,3,4,7,8-PeCDF	30.85	3.261e3	2.085e3	1.450e2	9.400e1	1.54	NO	2.390e2	0.030352	0.030352	0.0130

Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 Total Hexa-Furans	32.37	2.176e3	1.996e3	8.710e1	7.613e1	1.14	NO	1.632e2	0.031836	0.031836	0.0100
2 1,2,3,4,7,8-HxCDF	33.46	2.793e3	1.360e3	1.019e2	7.548e1	1.35	NO	1.774e2	0.034355	0.034355	0.00943

Hepta-Furans

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

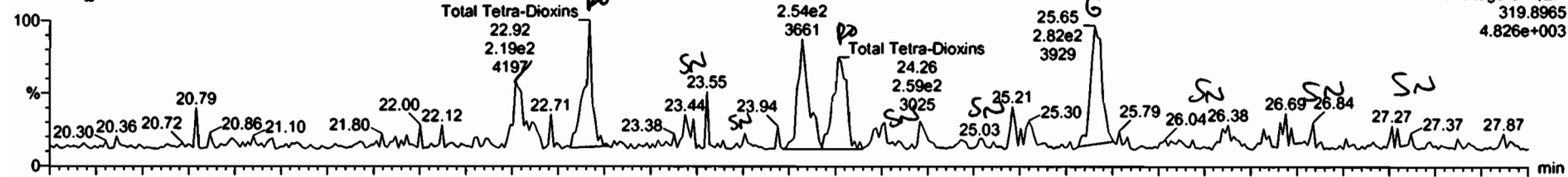
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Last Altered: Wednesday, December 16, 2020 7:04:18 AM Pacific Standard Time
Printed: Wednesday, December 16, 2020 7:06:08 AM Pacific Standard Time

Name: 201215R2_8, Date: 15-Dec-2020, Time: 22:15:06, ID: 2002535-04 USMPDI-009SC-A-06-07-201112 15.33, Description: USMPDI-009SC-A-06-07-201112

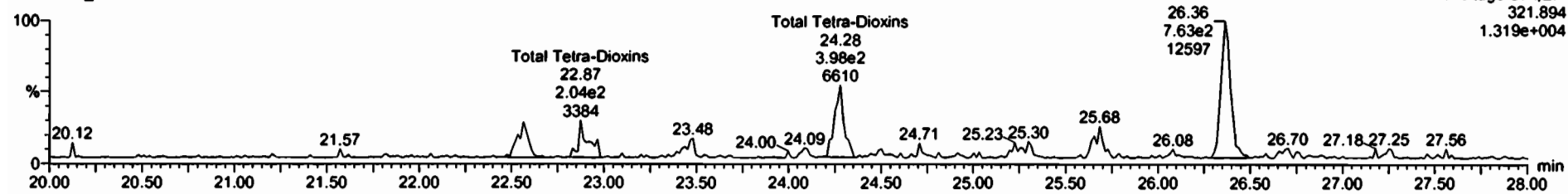
2,3,7,8-TCDD

201215R2_8



F1:Voltage SIR,EI+
319.8965
4.826e+003

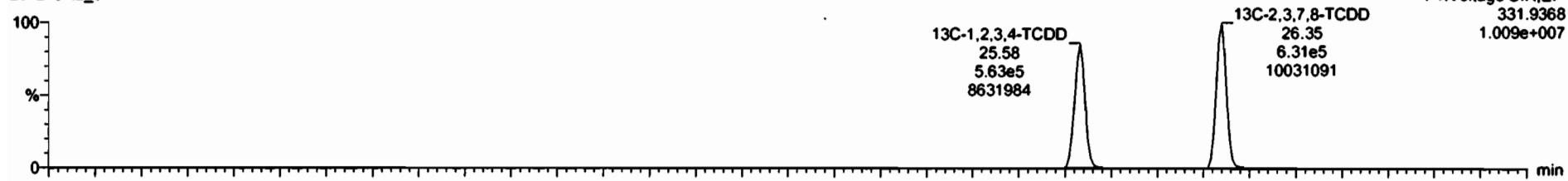
201215R2_8



F1:Voltage SIR,EI+
321.894
1.319e+004

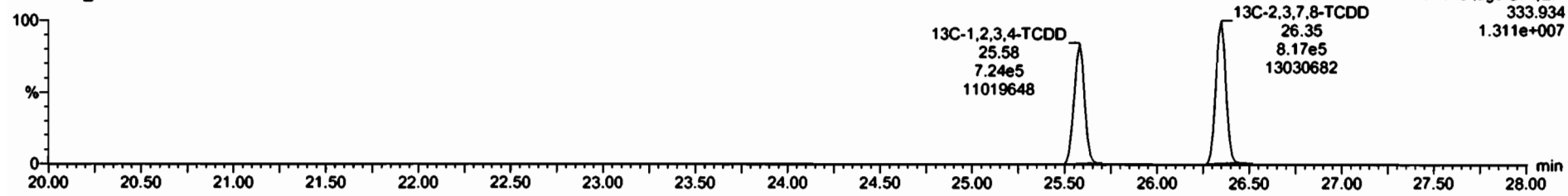
13C-2,3,7,8-TCDD

201215R2_8

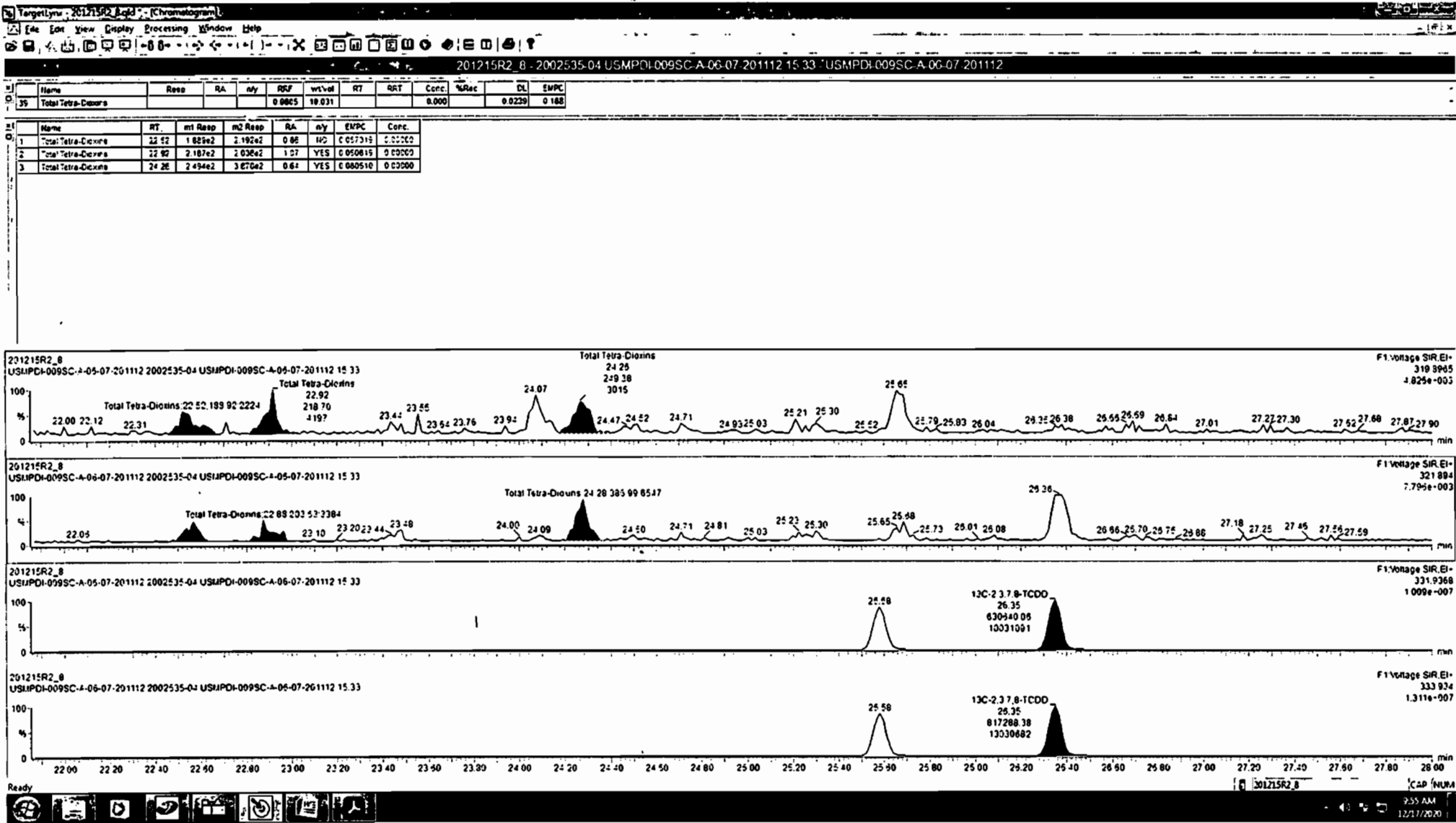


F1:Voltage SIR,EI+
331.9368
1.009e+007

201215R2_8



F1:Voltage SIR,EI+
333.934
1.311e+007

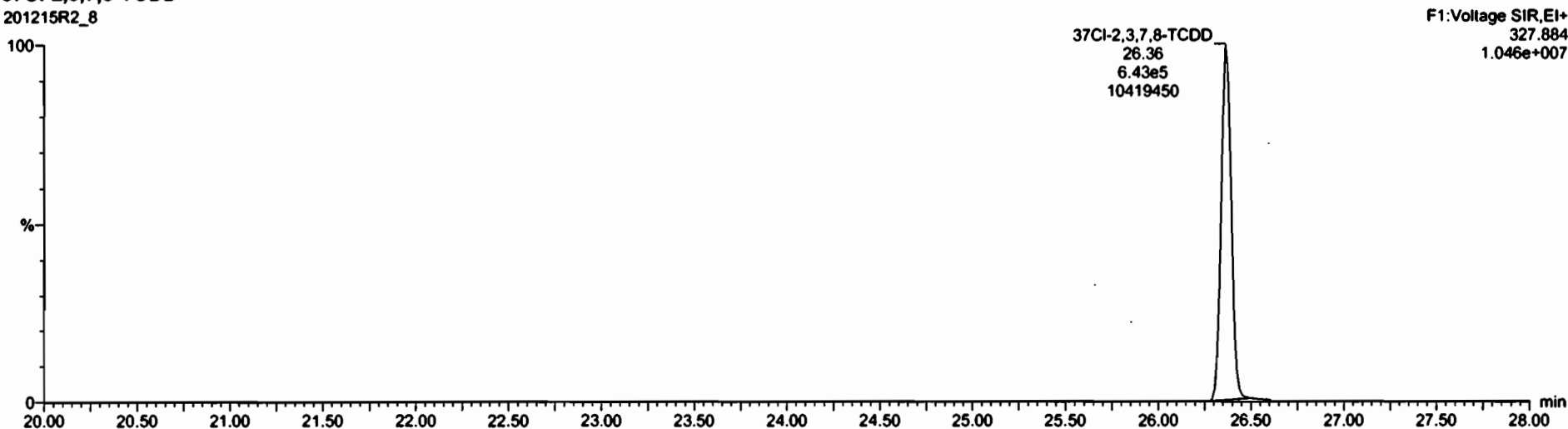


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Last Altered: Wednesday, December 16, 2020 7:04:18 AM Pacific Standard Time
Printed: Wednesday, December 16, 2020 7:06:08 AM Pacific Standard Time

Name: 201215R2_8, Date: 15-Dec-2020, Time: 22:15:06, ID: 2002535-04 USMPDI-009SC-A-06-07-201112 15.33, Description: USMPDI-009SC-A-06-07-201112

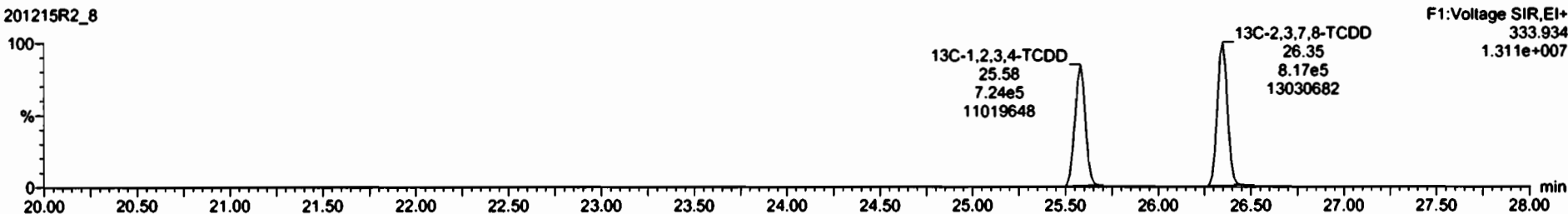
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201215R2_8



13C-1,2,3,4-TCDD
201215R2_8



201215R2_8



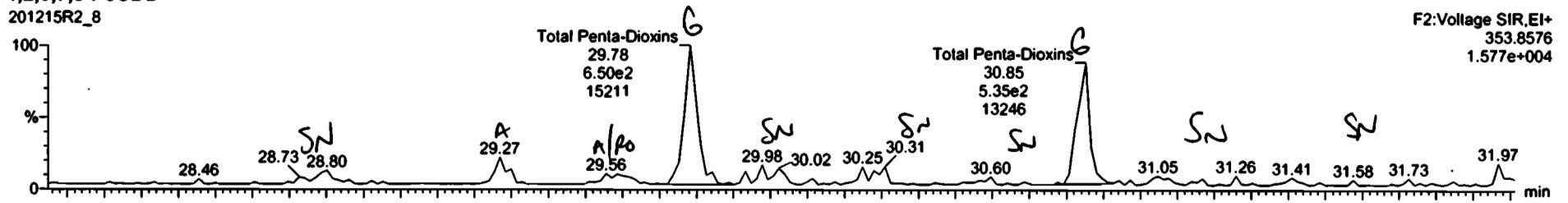
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Printed: Wednesday, December 16, 2020 7:06:08 AM Pacific Standard Time

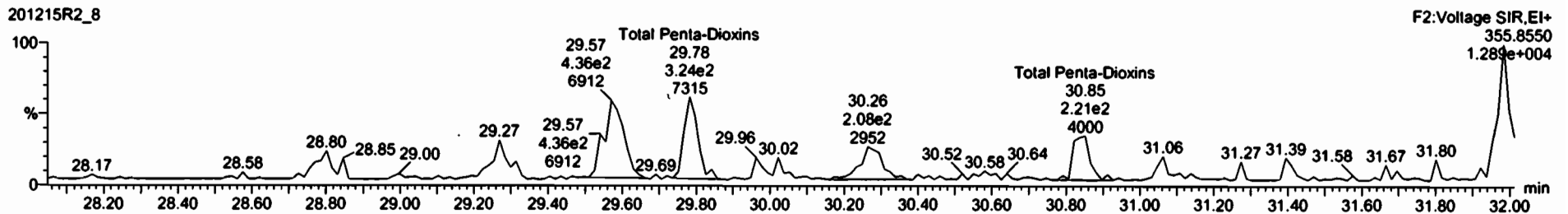
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1,2,3,7,8-PeCDD

201215R2_8



201215R2_8

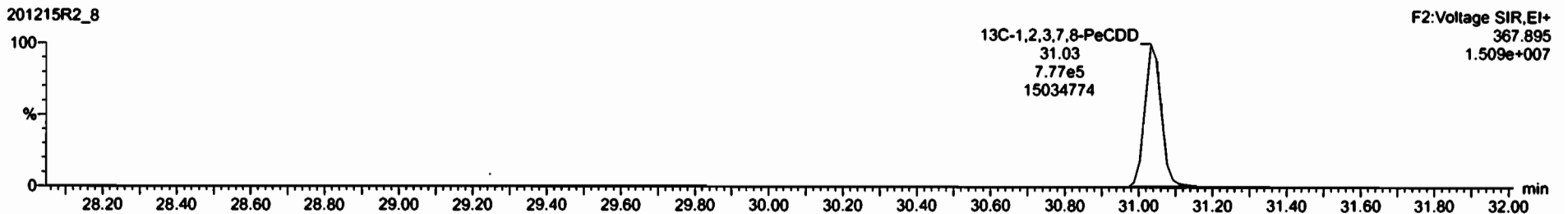


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201215R2_8



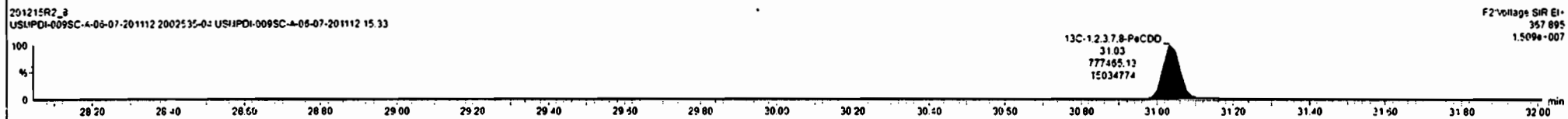
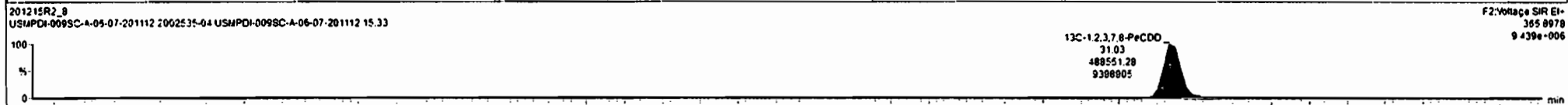
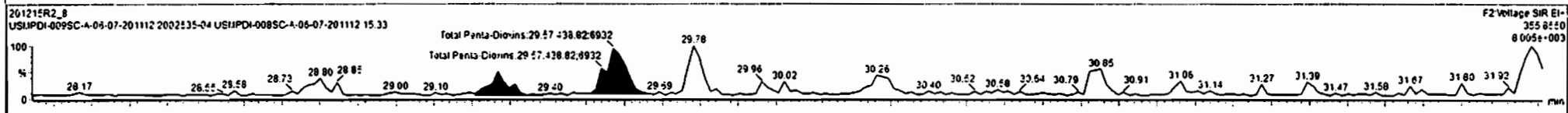
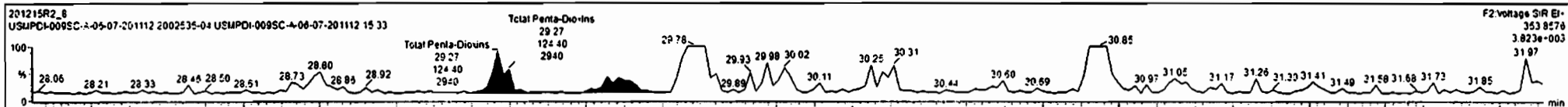
201215R2_8



201215R2_8 - 2002535-04 USMPDI-009SC-A-06-07-201112 15 33 - USMPDI-009SC-A-06-07-201112

Name	Resp	RA	n/y	RFI	wt/Vol	RT	RCT	Conc.	%Rec	DL	EMPC
33 Total Tetra-Chlorins				0.5805	10.031			0.020		0.0236	0.188

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	29.27	1.244e2	1.512e2	0.65	NO	0.053356	0.051255
2 Total Penta-Dioxins	29.58	5.235e1	4.386e2	0.21	YES	0.040379	0.02000



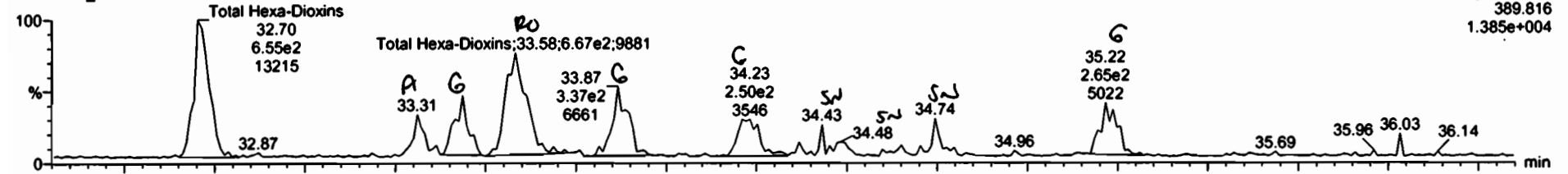
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Last Altered: Wednesday, December 16, 2020 7:04:18 AM Pacific Standard Time
Printed: Wednesday, December 16, 2020 7:06:08 AM Pacific Standard Time

Name: 201215R2_8, Date: 15-Dec-2020, Time: 22:15:06, ID: 2002535-04 USMPDI-009SC-A-06-07-201112 15.33, Description: USMPDI-009SC-A-06-07-201112

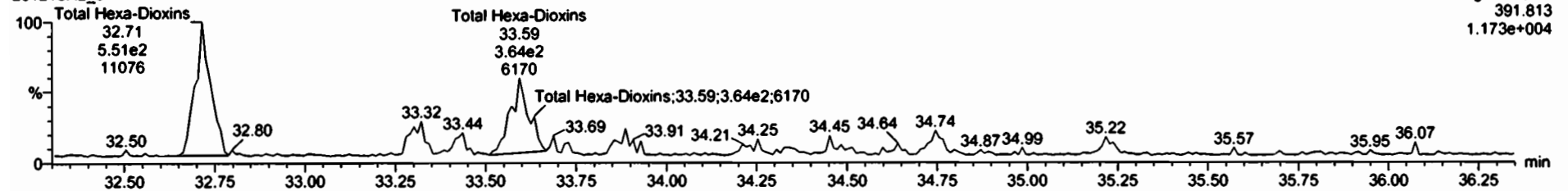
1,2,3,4,7,8-HxCDD

201215R2_8



F3: Voltage SIR, EI+
389.816
1.385e+004

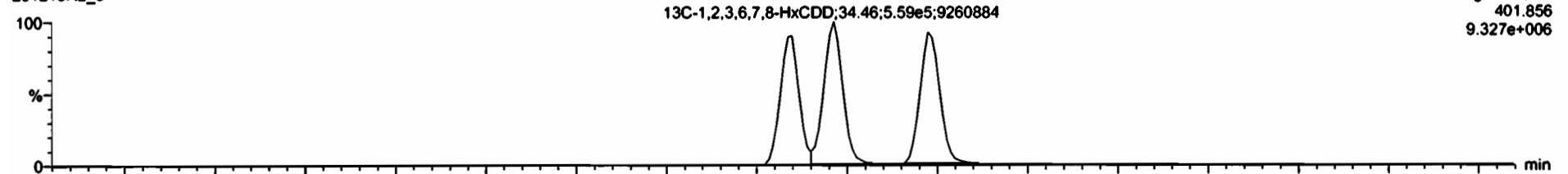
201215R2_8



F3: Voltage SIR, EI+
391.813
1.173e+004

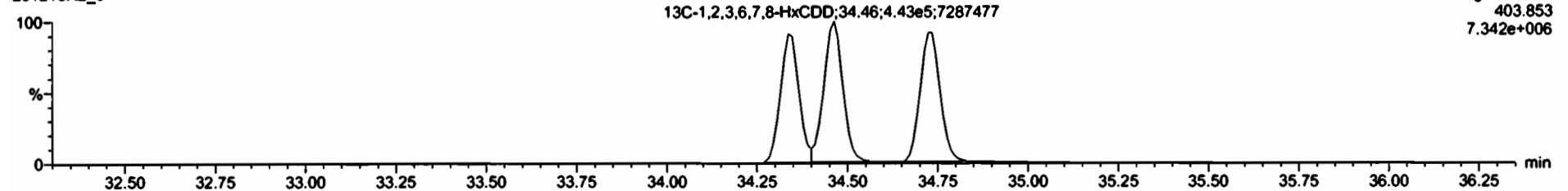
13C-1,2,3,4,7,8-HxCDD

201215R2_8



F3: Voltage SIR, EI+
401.856
9.327e+006

201215R2_8

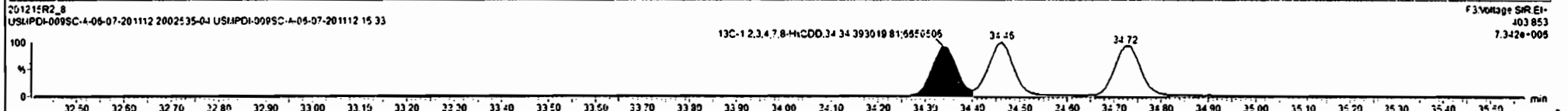
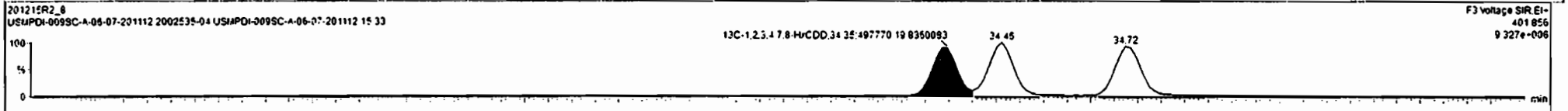
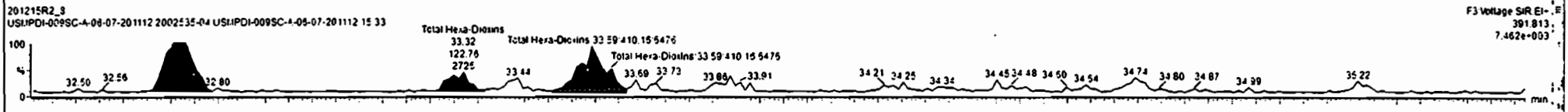
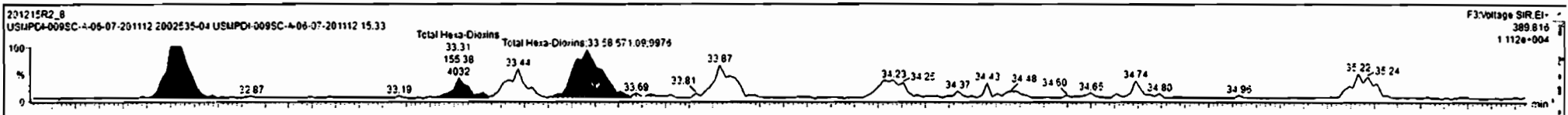


F3: Voltage SIR, EI+
403.853
7.342e+006

201215R2_8: 2002535-04 USMPDI-009SC-A-06-07-201112 15 33 USMPDI-009SC-A-06-07-201112

Name	Resp	RA	n/y	RFI	wt-wt	RT	QRT	Conc.	%Rec	DL	EVPC
41 Total Hexa-Dioxins				0.0025	18.031			0.343		0.0412	0.555

Name	RT	mt Resp	m2 Resp	RA	n/y	EVPC	Conc.
1 Total Hexa-Dioxins	32.70	8.545e2	5.507e2	1.15	INC	0.27267	0.27867
2 Total Hexa-Dioxins	33.31	1.554e2	1.228e2	1.27	INC	0.064308	0.064293
3 Total Hexa-Dioxins	33.56	6.711e2	4.102e2	1.64	YES	0.21242	0.09900



Dataset: Untitled

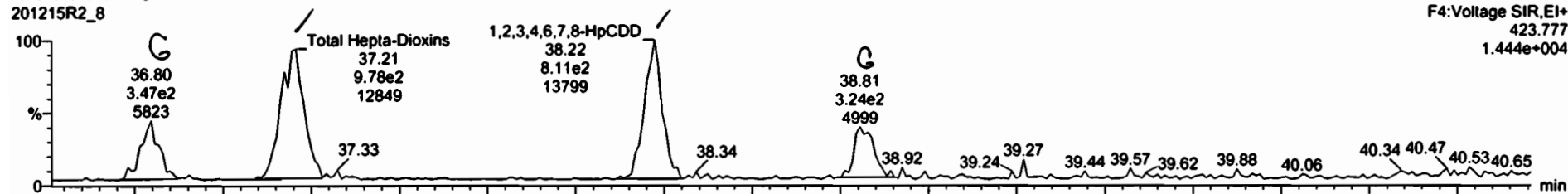
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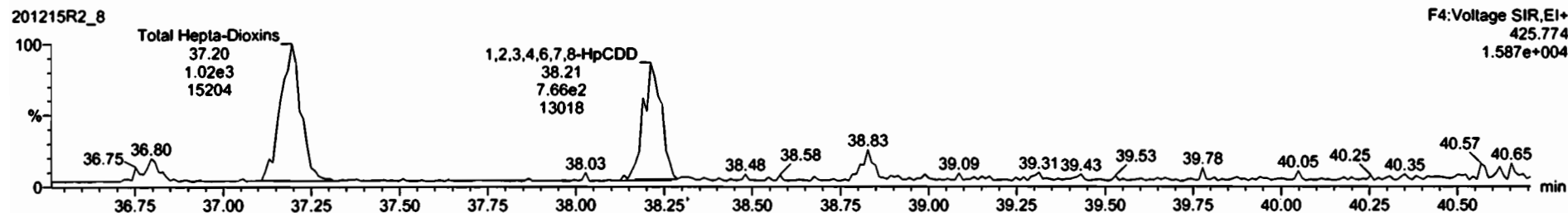
Name: 201215R2_8, Date: 15-Dec-2020, Time: 22:15:06, ID: 2002535-04 USMPDI-009SC-A-06-07-201112 15.33, Description: USMPDI-009SC-A-06-07-201112

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

201215R2_8



201215R2_8

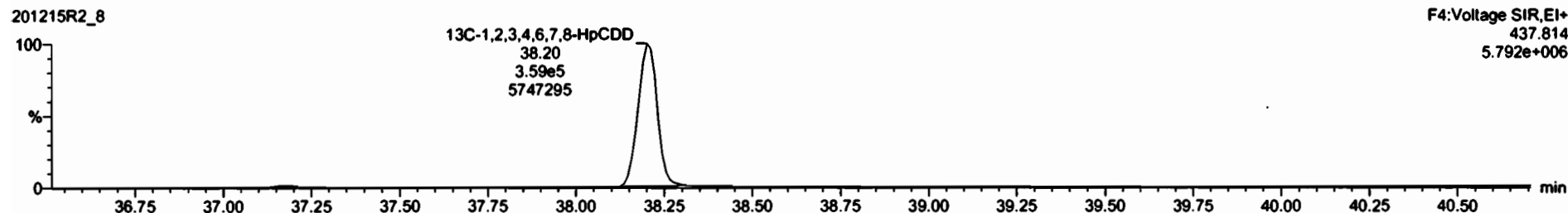


13C-1,2,3,4,6,7,8-HpCDD

201215R2_8



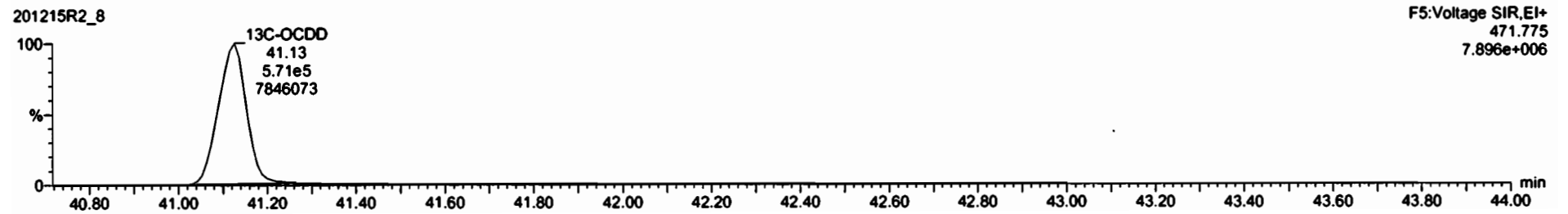
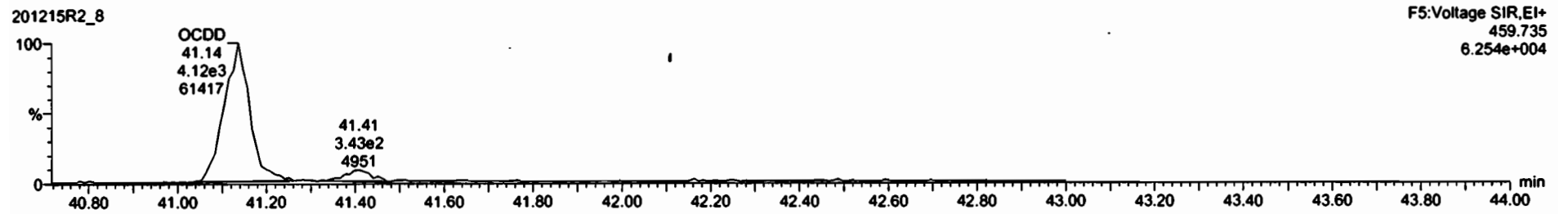
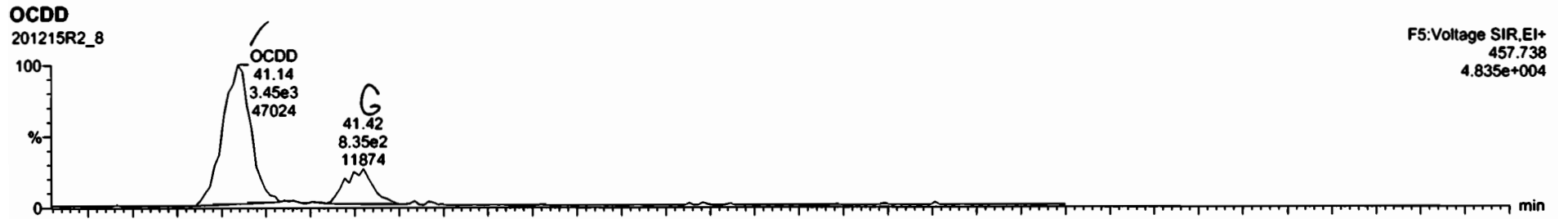
201215R2_8



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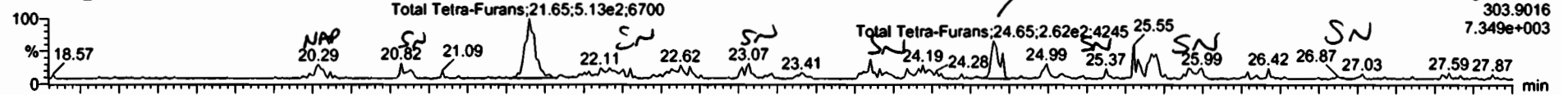
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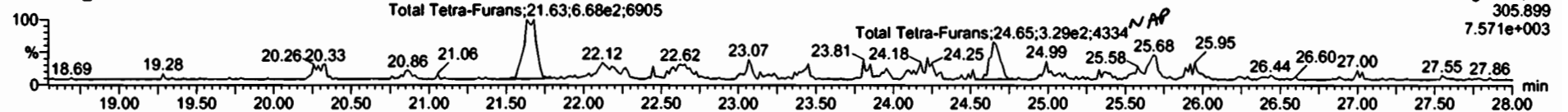
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2,3,7,8-TCDF

201215R2_8

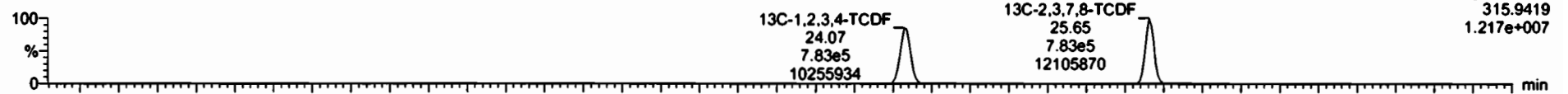


201215R2_8

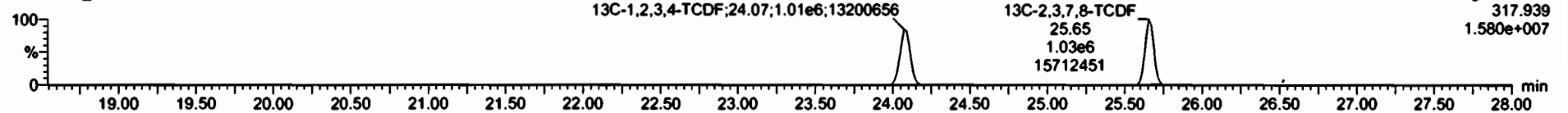


13C-2,3,7,8-TCDF

201215R2_8

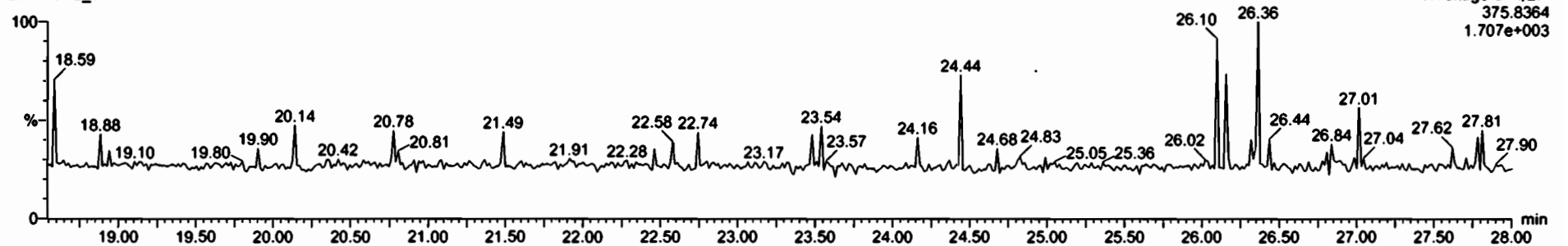


201215R2_8



DPE1

201215R2_8



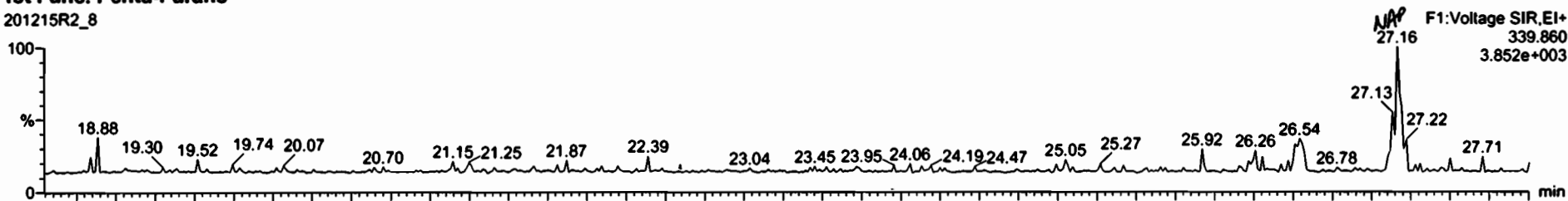
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Printed: Wednesday, December 16, 2020 7:06:08 AM Pacific Standard Time

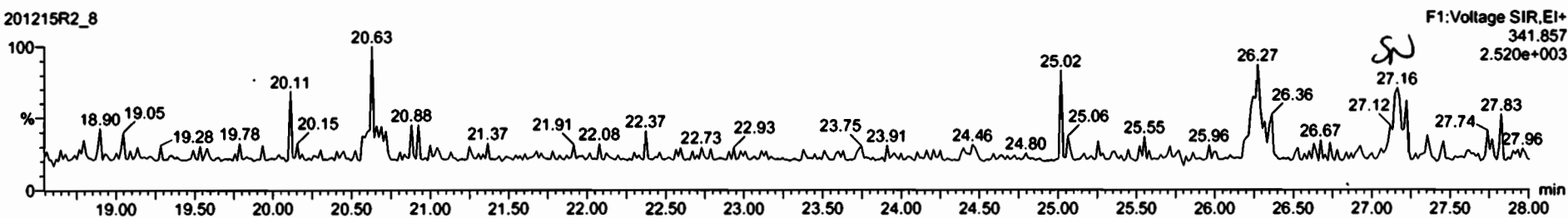
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1st Func. Penta-Furans

201215R2_8

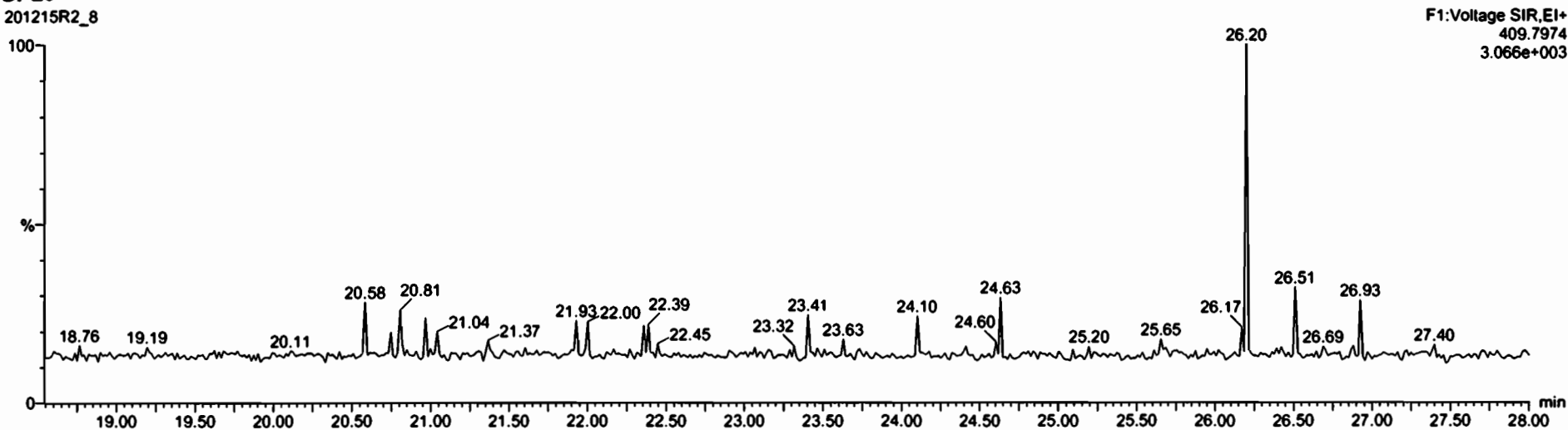


201215R2_8



DPE6

201215R2_8



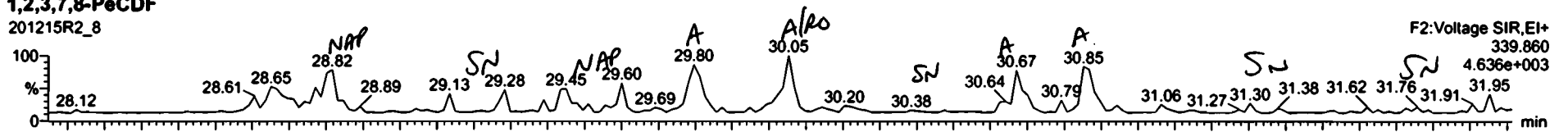
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Printed: Wednesday, December 16, 2020 7:06:08 AM Pacific Standard Time

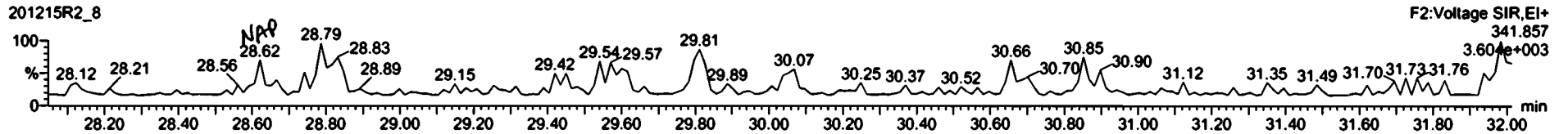
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1,2,3,7,8-PeCDF

201215R2_8



201215R2_8

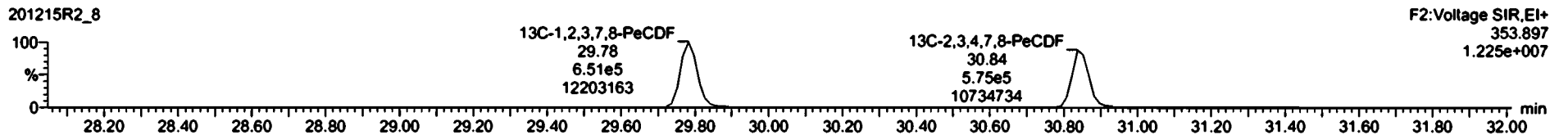


13C-1,2,3,7,8-PeCDF

201215R2_8

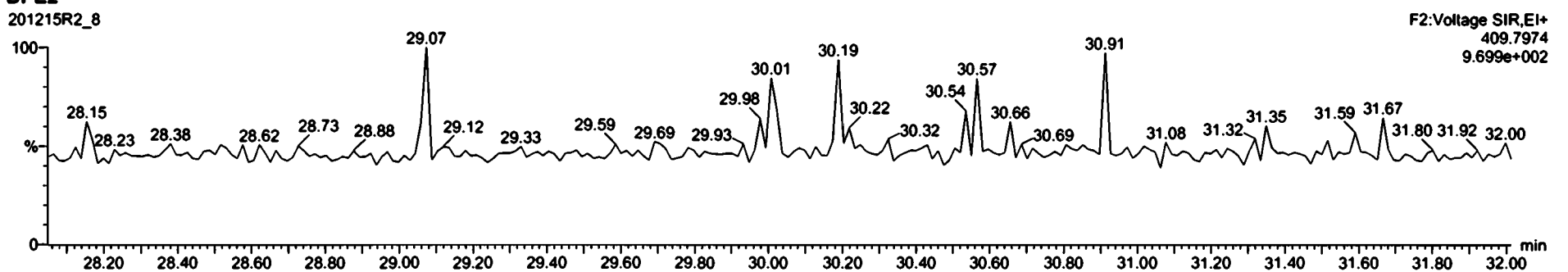


201215R2_8



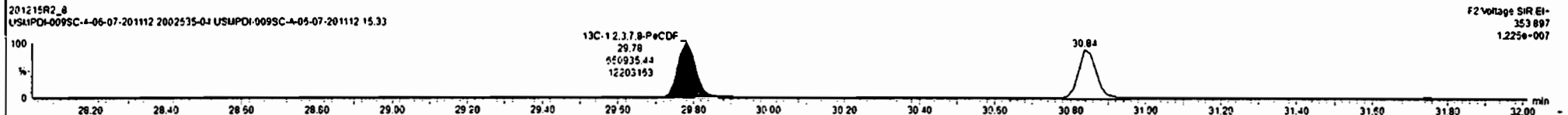
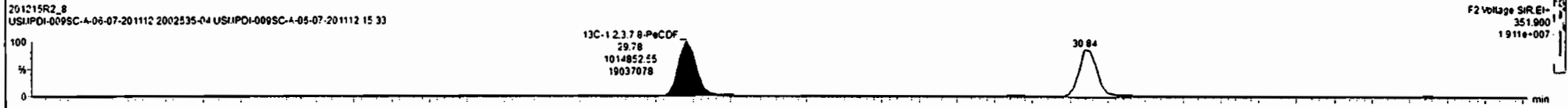
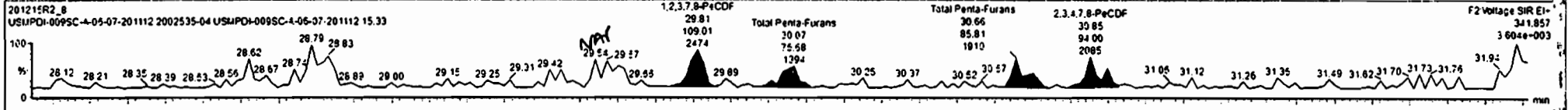
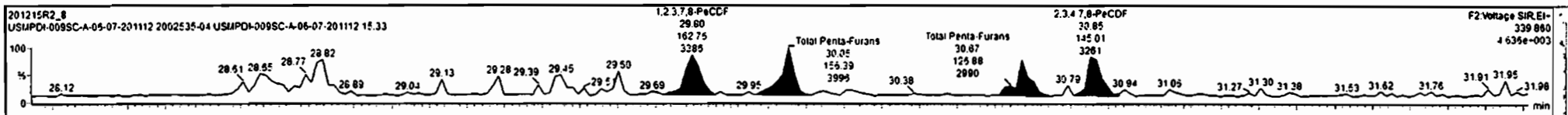
DPE2

201215R2_8



Name	Reso	RA	m/y	RRF	wt%wt	RT	QRT	Conc.	%Rec	DL	EMPC
Total Penta-Furans				0.9597	18.031			0.0924		0.0133	0.118
Total Penta-Furans				1.0327	16.871			0.0924		0.0100	0.0943

Name	RT	m1 Reso	m2 Reso	RA	m/y	EMPC	Conc.
1 Total Penta-Furans	30.07	1.209e2	6.581e1	1.48	NO	0.028173	0.028173
2 Total Penta-Furans	30.25	1.564e2	7.566e1	2.37	YES	0.021561	0.02000
3 1,2,3,7,8-PeCDF	29.60	1.628e2	1.090e2	1.45	NO	0.032897	0.033897
4 2,3,4,7,8-PeCDF	30.85	1.452e2	9.400e1	1.54	NO	0.030352	0.030352



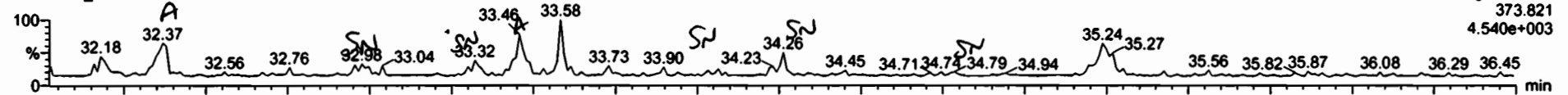
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Printed: Wednesday, December 16, 2020 7:06:08 AM Pacific Standard Time

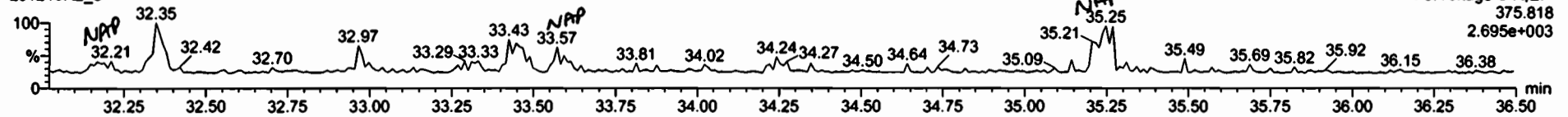
Name: 201215R2_8, Date: 15-Dec-2020, Time: 22:15:06, ID: 2002535-04 USMPDI-009SC-A-06-07-201112 15.33, Description: USMPDI-009SC-A-06-07-201112

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

201215R2_8

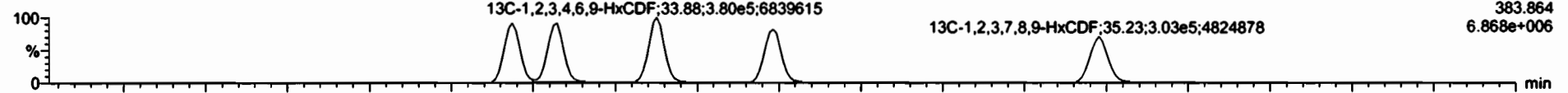


201215R2_8

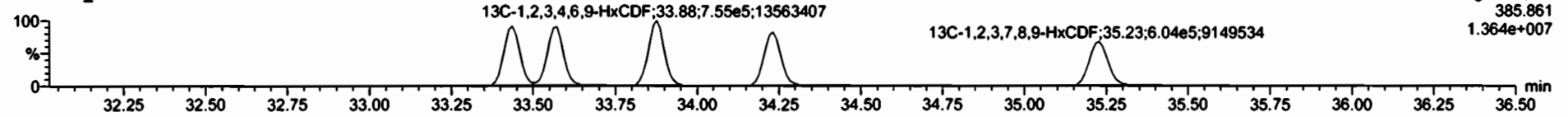


13C-1,2,3,4,7,8-HxCDF

201215R2_8

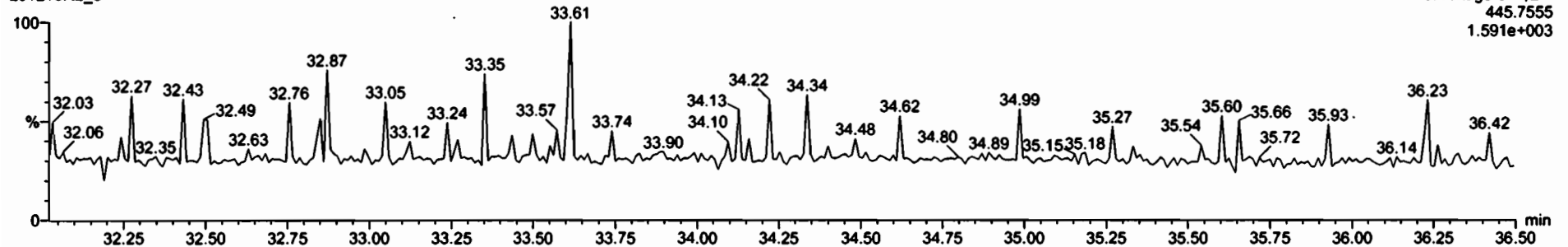


201215R2_8



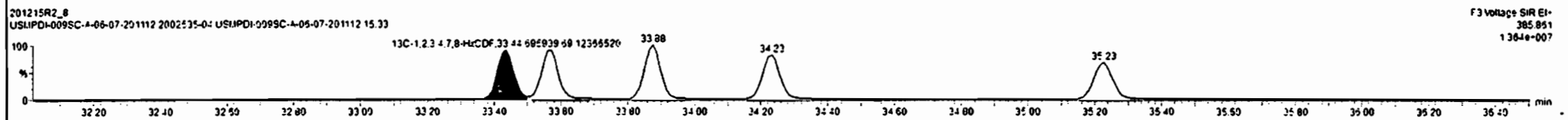
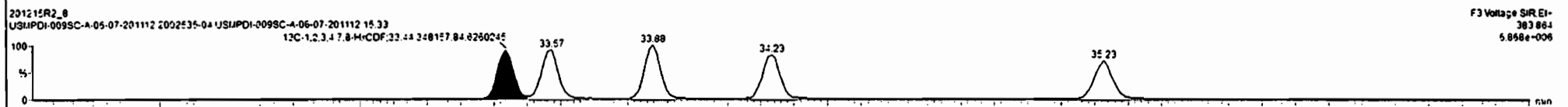
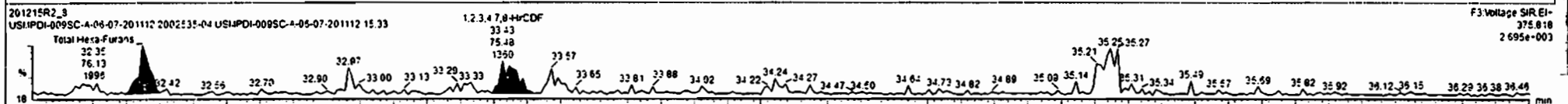
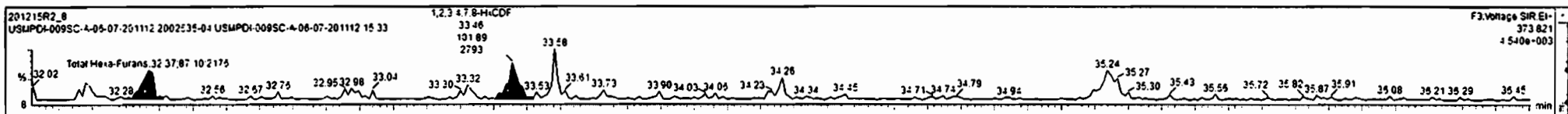
DPE3

201215R2_8



Name	Resp	RA	n/y	RF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans			0.5597	10.031			0.0221	0.0133	0.0878	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Hexa-Furans	32.37	2.712e1	7.812e1	1.14	NO	0.031836
2	1,2,3,4,7,8-HxCDF	32.45	1.519e2	7.546e1	1.35	NO	0.034355

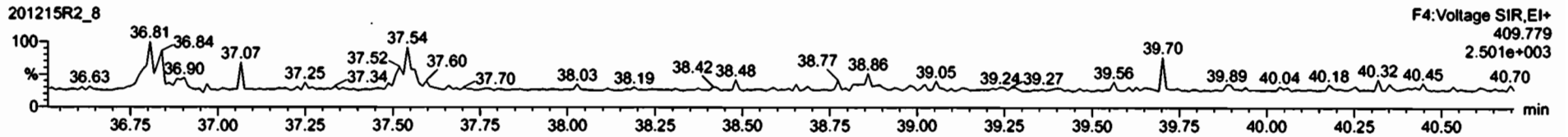
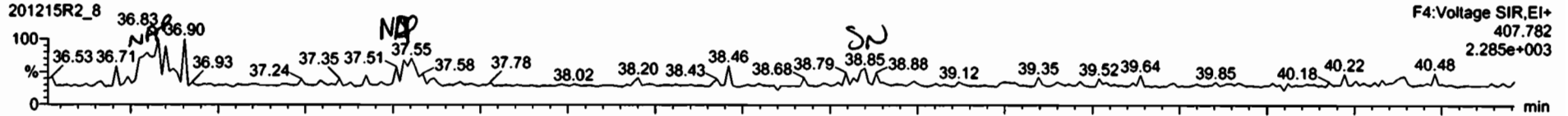


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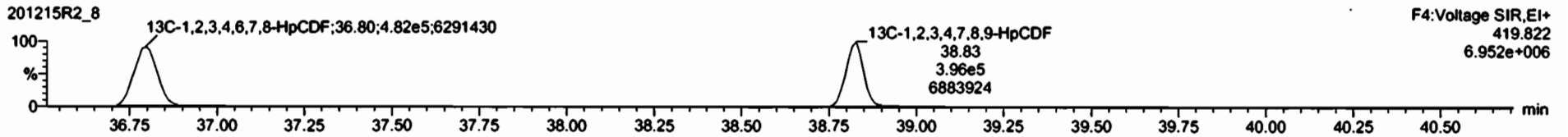
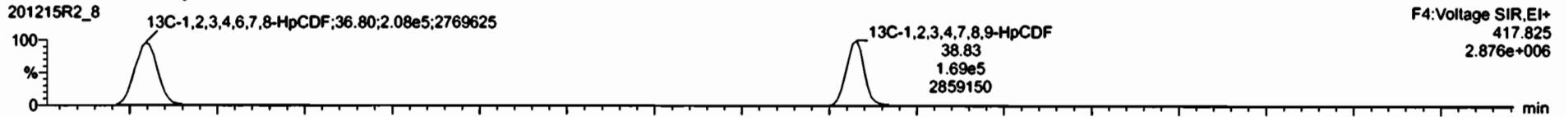
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Printed: Wednesday, December 16, 2020 7:06:08 AM Pacific Standard Time

Name: 201215R2_8, Date: 15-Dec-2020, Time: 22:15:06, ID: 2002535-04 USMPDI-009SC-A-06-07-201112 15.33, Description: USMPDI-009SC-A-06-07-201112

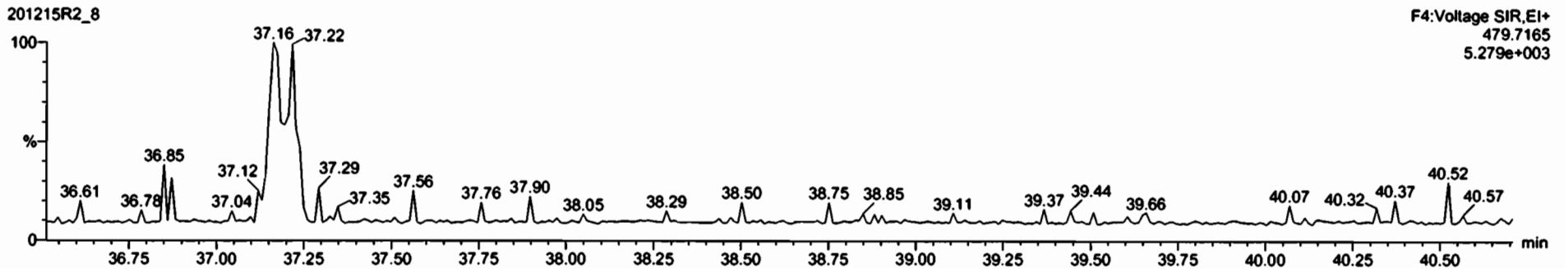
1,2,3,4,6,7,8-HpCDF



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



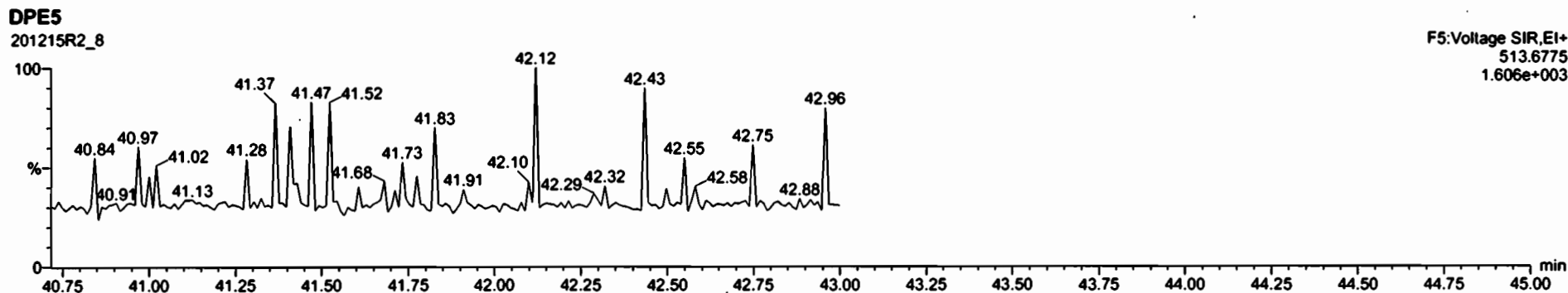
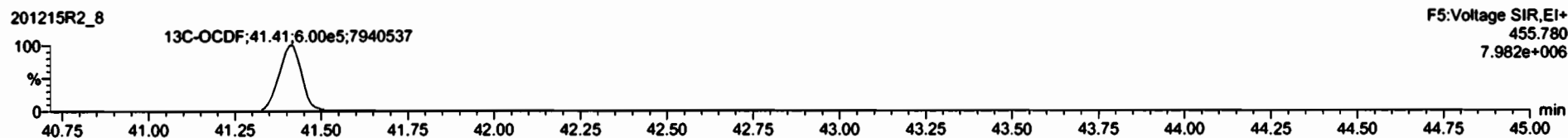
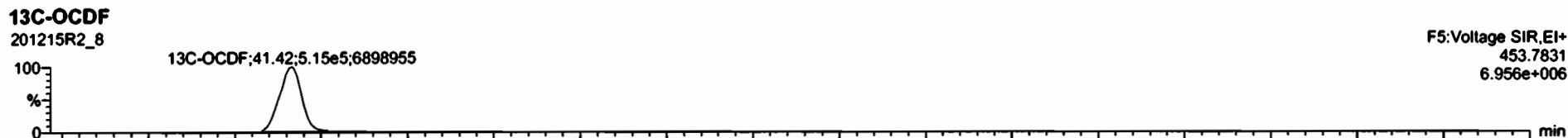
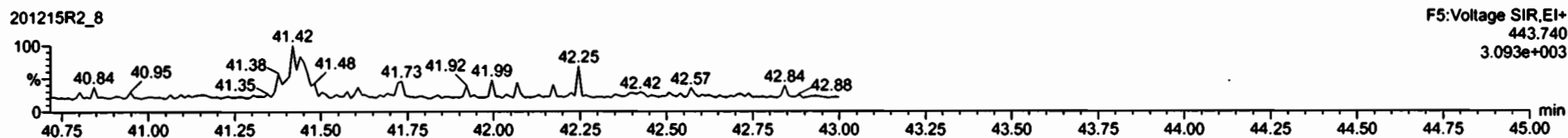
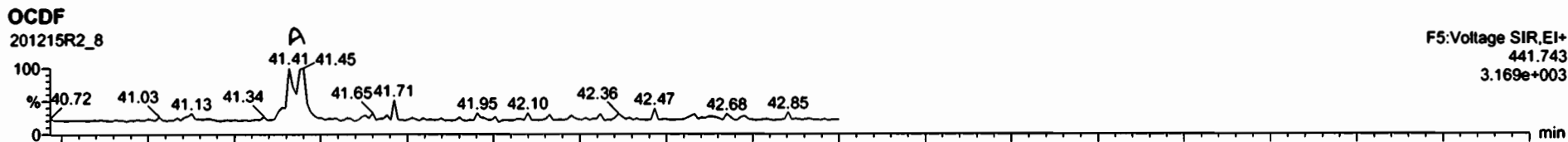
DPE4



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Printed: Wednesday, December 16, 2020 7:06:08 AM Pacific Standard Time

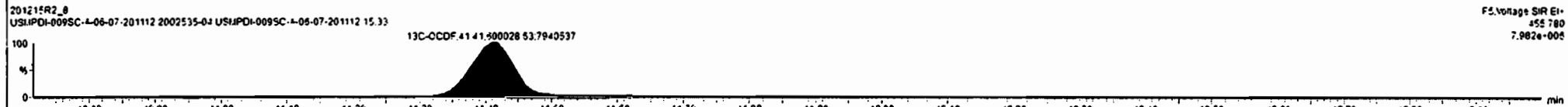
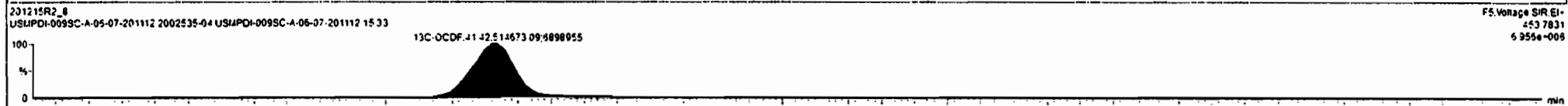
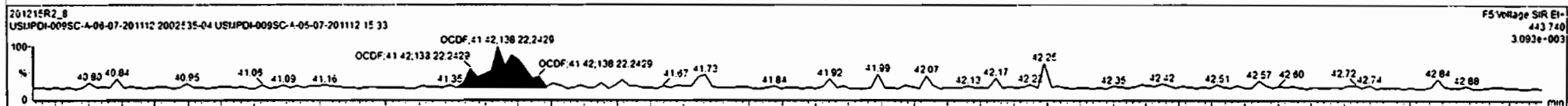
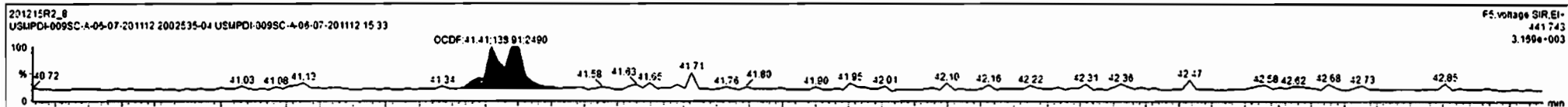
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201215R2_8 - 2002535-04 USMPDI-009SC-A-06-07-201112 15 33 - USMPDI-009SC-A-06-07-201112

Name	Ret	RA	n/y	RF	wt/vol	RT	SAT	Conc.	%Rec	DL	EMPC
17	OCCF	2.77e2	1.01	NO	0.990	18.031	41.41	1.000	0.111	0.0607	0.111

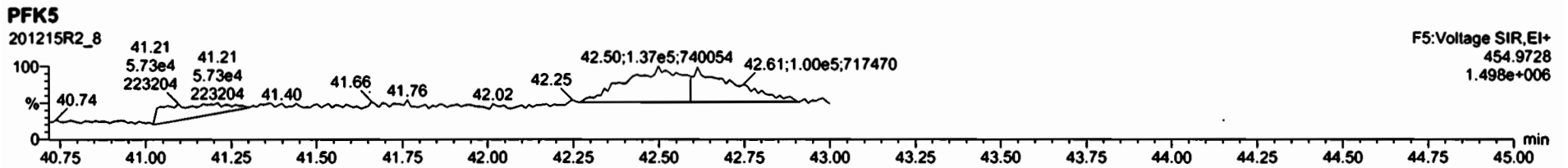
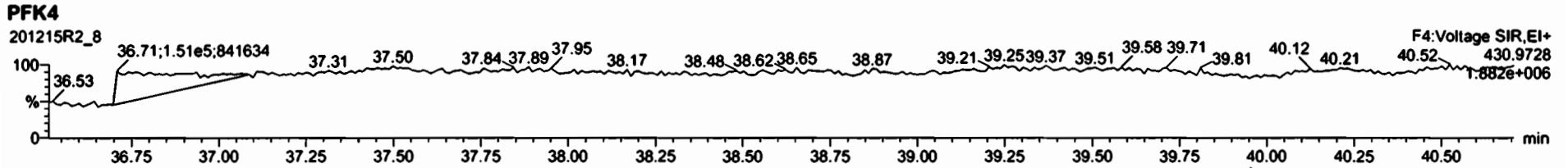
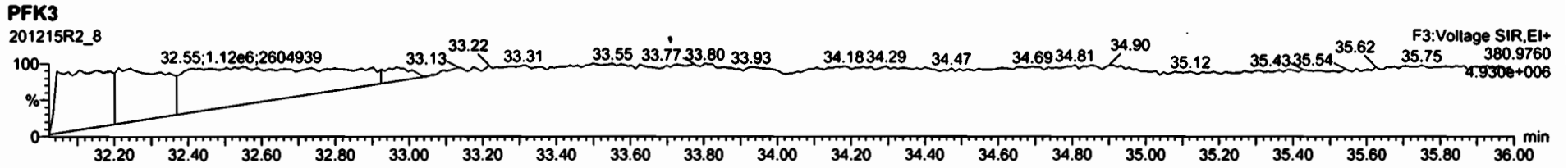
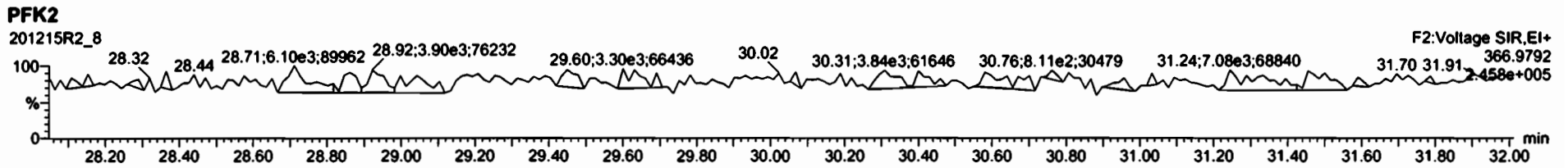
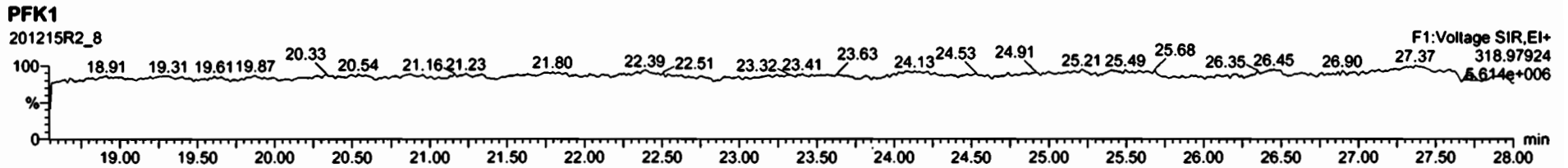
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conf.
1							



Dataset: Untitled

Last Altered: Wednesday, December 16, 2020 7:04:18 AM Pacific Standard Time
Printed: Wednesday, December 16, 2020 7:06:08 AM Pacific Standard Time

Name: 201215R2_8, Date: 15-Dec-2020, Time: 22:15:06, ID: 2002535-04 USMPDI-009SC-A-06-07-201112 15.33, Description: USMPDI-009SC-A-06-07-201112



Dataset: U:\VG12.PRO\Results\201215R2\201215R2_9.qld

Last Altered: Thursday, December 17, 2020 10:32:29 AM Pacific Standard Time
Printed: Thursday, December 17, 2020 10:32:53 AM Pacific Standard Time

GRB 12/17/2020

C7 12/18/2020

Method: Untitled 11 Dec 2020 08:35:32

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201215R2_9, Date: 15-Dec-2020, Time: 22:59:21, ID: 2002535-05 USMPDI-1009SC-A-04-05-201112 18.77, Description: USMPDI-1009SC-A-04-05-201112

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	9.16e2	0.13	YES	0.980	10.140	26.366	26.38	1.001	1.002	0.12878		0.0294	0.0346
2	1,2,3,7,8-PeCDD	4.68e2	0.62	NO	0.932	10.140	31.064	31.05	1.001	1.000	0.081255		0.0654	0.0813
3	1,2,3,4,7,8-HxCDD	3.30e2	1.19	NO	1.02	10.140	34.358	34.35	1.001	1.000	0.074752		0.0544	0.0748
4	1,2,3,6,7,8-HxCDD	5.52e2	1.30	NO	0.902	10.140	34.473	34.46	1.001	1.000	0.12594		0.0563	0.126
5	1,2,3,7,8,9-HxCDD	9.24e2	1.16	NO	0.954	10.140	34.734	34.73	1.000	1.000	0.20450		0.0565	0.205
6	1,2,3,4,6,7,8-HpCDD	5.63e3	0.98	NO	0.918	10.140	38.200	38.20	1.000	1.000	1.7198		0.106	1.72
7	OCDD	3.36e4	0.85	NO	0.866	10.140	41.124	41.13	1.000	1.000	16.636		0.232	16.6
8	2,3,7,8-TCDF	8.63e2	0.85	NO	0.848	10.140	25.657	25.67	1.000	1.001	0.11266		0.0414	0.113
9	1,2,3,7,8-PeCDF	7.42e2	1.57	NO	0.960	10.140	29.785	29.78	1.000	1.000	0.094301		0.0453	0.0943
10	2,3,4,7,8-PeCDF	7.72e2	2.22	YES	1.07	10.140	30.859	30.85	1.001	1.000	0.094251		0.0391	0.0746
11	1,2,3,4,7,8-HxCDF	5.71e2	1.32	NO	0.986	10.140	33.436	33.45	1.000	1.001	0.11226		0.0267	0.112
12	1,2,3,6,7,8-HxCDF	5.50e2	1.13	NO	1.04	10.140	33.582	33.57	1.001	1.000	0.10340		0.0261	0.103
13	2,3,4,6,7,8-HxCDF	4.45e2	1.07	NO	1.02	10.140	34.243	34.23	1.001	1.000	0.091034		0.0296	0.0910
14	1,2,3,7,8,9-HxCDF	9.86e1	1.21	NO	0.991	10.140	35.227	35.23	1.000	1.000	0.022755		0.0357	0.0228
15	1,2,3,4,6,7,8-HpCDF	1.91e3	1.08	NO	1.05	10.140	36.803	36.81	1.000	1.001	0.55011		0.0459	0.550
16	1,2,3,4,7,8,9-HpCDF	1.93e2	1.08	NO	1.18	10.140	38.828	38.83	1.000	1.000	0.061228		0.0396	0.0612
17	OCDF	1.20e3	0.89	NO	0.896	10.140	41.417	41.42	1.000	1.000	0.53861		0.0636	0.539
18	13C-2,3,7,8-TCDD	1.43e6	0.76	NO	1.06	10.140	26.337	26.33	1.030	1.030	210.42	107	0.154	
19	13C-1,2,3,7,8-PeCDD	1.22e6	0.63	NO	0.785	10.140	31.174	31.03	1.219	1.214	241.11	122	0.129	
20	13C-1,2,3,4,7,8-HxCDD	8.54e5	1.27	NO	0.621	10.140	34.327	34.34	1.014	1.014	245.02	124	0.331	
21	13C-1,2,3,6,7,8-HxCDD	9.58e5	1.26	NO	0.734	10.140	34.448	34.45	1.017	1.017	232.38	118	0.280	
22	13C-1,2,3,7,8,9-HxCDD	9.34e5	1.24	NO	0.723	10.140	34.733	34.72	1.026	1.025	230.07	117	0.284	
23	13C-1,2,3,4,6,7,8-HpCDD	7.04e5	1.03	NO	0.568	10.140	38.231	38.19	1.129	1.128	220.77	112	0.757	
24	13C-OCDD	9.22e5	0.90	NO	0.496	10.140	41.168	41.12	1.216	1.214	331.00	83.9	0.460	
25	13C-2,3,7,8-TCDF	1.78e6	0.76	NO	0.919	10.140	25.637	25.65	1.003	1.003	213.65	108	0.132	
26	13C-1,2,3,7,8-PeCDF	1.62e6	1.58	NO	0.715	10.140	29.885	29.78	1.169	1.165	249.11	126	0.298	
27	13C-2,3,4,7,8-PeCDF	1.51e6	1.57	NO	0.689	10.140	30.972	30.84	1.212	1.206	242.26	123	0.310	
28	13C-1,2,3,4,7,8-HxCDF	1.02e6	0.50	NO	0.873	10.140	33.433	33.43	0.987	0.987	207.54	105	0.406	
29	13C-1,2,3,6,7,8-HxCDF	1.01e6	0.51	NO	0.933	10.140	33.561	33.56	0.991	0.991	192.76	97.7	0.380	
30	13C-2,3,4,6,7,8-HxCDF	9.44e5	0.50	NO	0.843	10.140	34.228	34.22	1.011	1.011	199.48	101	0.420	
31	13C-1,2,3,7,8,9-HxCDF	8.62e5	0.50	NO	0.780	10.140	35.227	35.22	1.040	1.040	196.85	99.8	0.455	

Dataset: U:\VG12.PRO\Results\201215R2\201215R2_9.qld

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Name: 201215R2_9, Date: 15-Dec-2020, Time: 22:59:21, ID: 2002535-05 USMPDI-1009SC-A-04-05-201112 18.77, Description: USMPDI-1009SC-A-04-05-201112

#	Name	Resp	RA	n/y	RRF	w/Vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	6.54e5	0.43	NO	0.726	10.140	36.802	36.78	1.087	1.086	160.42	81.3	0.521	
33	13C-1,2,3,4,7,8,9-HpCDF	5.30e5	0.44	NO	0.491	10.140	38.810	38.82	1.146	1.146	192.18	97.4	0.770	
34	13C-OCDF	9.77e5	0.86	NO	0.565	10.140	41.384	41.41	1.222	1.223	307.81	78.0	0.418	
35	37Cl-2,3,7,8-TCDD	6.28e5			1.22	10.140	26.332	26.36	1.030	1.031	80.127	102	0.0234	
36	13C-1,2,3,4-TCDD	1.27e6	0.79	NO	1.00	10.140	25.640	25.57	1.000	1.000	197.25	100	0.162	
37	13C-1,2,3,4-TCDF	1.79e6	0.77	NO	1.00	10.140	24.130	24.07	1.000	1.000	197.25	100	0.122	
38	13C-1,2,3,4,6,9-HxCDF	1.11e6	0.51	NO	1.00	10.140	33.920	33.87	1.000	1.000	197.25	100	0.354	
39	Total Tetra-Dioxins				0.980	10.140	24.620		0.000		0.89688		0.0294	1.07
40	Total Penta-Dioxins				0.932	10.140	29.960		0.000		0.35728		0.0654	0.830
41	Total Hexa-Dioxins				0.902	10.140	33.635		0.000		2.5786		0.0591	2.58
42	Total Hepta-Dioxins				0.918	10.140	37.640		0.000		4.2224		0.106	4.22
43	Total Tetra-Furans				0.848	10.140	23.610		0.000		1.0878		0.0414	2.74
44	1st Func. Penta-Furans				0.960	10.140	26.930		0.000		0.15436		0.0140	0.154
45	Total Penta-Furans				0.960	10.140	29.275		0.000		0.84005		0.0444	1.08
46	Total Hexa-Furans				1.02	10.140	33.555		0.000		0.79763		0.0289	0.838
47	Total Hepta-Furans				1.05	10.140	37.835		0.000		0.78197		0.0453	0.782

Dataset: U:\VG12.PRO\Results\201215R2\201215R2_9.qld

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Method: Untitled 11 Dec 2020 08:35:32

Calibration: U:\VG12.PRO\CurveDB\ddbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201215R2_9, Date: 15-Dec-2020, Time: 22:59:21, ID: 2002535-05 USMPDI-1009SC-A-04-05-201112 18.77, Description: USMPDI-1009SC-A-04-05-201112

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Tetra-Dioxins	22.53	9.187e3	1.082e4	7.886e2	9.878e2	0.80	NO	1.776e3	0.24977	0.24977	0.0294
2	Total Tetra-Dioxins	22.89	9.901e3	8.129e3	6.150e2	7.082e2	0.87	NO	1.323e3	0.18605	0.18605	0.0294
3	Total Tetra-Dioxins	23.44	2.473e3	4.280e3	1.644e2	2.497e2	0.66	NO	4.141e2	0.058218	0.058218	0.0294
4	Total Tetra-Dioxins	24.26	1.160e4	1.513e4	7.550e2	1.043e3	0.72	NO	1.798e3	0.25283	0.25283	0.0294
5	Total Tetra-Dioxins	24.50	1.966e3	2.902e3	2.083e2	2.416e2	0.86	NO	0.000e0	0.00000	0.063252	0.0294
6	Total Tetra-Dioxins	24.69	3.454e3	2.655e3	1.957e2	1.980e2	0.99	YES	0.000e0	0.00000	0.049273	0.0294
7	Total Tetra-Dioxins	24.91	1.774e3	1.759e3	7.623e1	1.056e2	0.72	NO	1.819e2	0.025569	0.025569	0.0294
8	Total Tetra-Dioxins	25.24	1.395e3	2.579e3	8.312e1	1.215e2	0.68	NO	2.046e2	0.028769	0.028769	0.0294
9	Total Tetra-Dioxins	25.28	2.454e3	2.332e3	1.337e2	1.643e2	0.81	NO	2.980e2	0.041897	0.041897	0.0294
10	2,3,7,8-TCDD	26.38	2.311e3	1.158e4	1.071e2	8.085e2	0.13	YES	9.155e2	0.00000	0.034607	0.0294
11	Total Tetra-Dioxins	26.67	2.765e3	4.094e3	1.787e2	2.038e2	0.88	NO	3.825e2	0.053779	0.053779	0.0294
12	Total Tetra-Dioxins	27.25	1.929e3	1.909e3	1.105e2	9.912e1	1.12	YES	0.000e0	0.00000	0.024667	0.0294

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Penta-Dioxins	28.74	4.959e3	8.488e3	4.568e2	6.450e2	0.71	NO	1.102e3	0.19132	0.19132	0.0654
2	Total Penta-Dioxins	29.25	7.432e3	1.111e4	2.914e2	5.443e2	0.54	YES	0.000e0	0.00000	0.13091	0.0654
3	Total Penta-Dioxins	29.78	1.444e4	1.281e4	8.992e2	5.248e2	1.71	YES	0.000e0	0.00000	0.14856	0.0654
4	Total Penta-Dioxins	29.98	3.206e3	7.277e3	1.391e2	3.227e2	0.43	YES	0.000e0	0.00000	0.062476	0.0654
5	Total Penta-Dioxins	30.02	3.177e3	6.823e3	1.860e2	3.018e2	0.62	NO	4.878e2	0.084707	0.084707	0.0654
6	Total Penta-Dioxins	30.28	3.370e3	8.954e3	2.904e2	5.960e2	0.49	YES	0.000e0	0.00000	0.13047	0.0654
7	1,2,3,7,8-PeCDD	31.05	5.376e3	5.876e3	1.795e2	2.885e2	0.62	NO	4.679e2	0.081255	0.081255	0.0654

Dataset: U:\VG12.PRO\Results\201215R2\201215R2_9.qld

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Name: 201215R2_9, Date: 15-Dec-2020, Time: 22:59:21, ID: 2002535-05 USMPDI-1009SC-A-04-05-201112 18.77, Description: USMPDI-1009SC-A-04-05-201112

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 Total Hexa-Dioxins	32.71	4.844e4	3.574e4	2.467e3	1.909e3	1.29	NO	4.376e3	1.0453	1.0453	0.0591
2 Total Hexa-Dioxins	33.30	1.296e4	1.194e4	6.484e2	5.955e2	1.09	NO	1.244e3	0.29709	0.29709	0.0591
3 Total Hexa-Dioxins	33.57	2.239e4	1.826e4	1.557e3	1.211e3	1.29	NO	2.768e3	0.66106	0.66106	0.0591
4 Total Hexa-Dioxins	33.69	3.672e3	3.362e3	2.259e2	1.983e2	1.14	NO	4.243e2	0.10133	0.10133	0.0591
5 1,2,3,4,7,8-HxCDD	34.35	3.170e3	2.938e3	1.793e2	1.508e2	1.19	NO	3.301e2	0.074752	0.074752	0.0544
6 1,2,3,6,7,8-HxCDD	34.46	6.893e3	3.552e3	3.118e2	2.401e2	1.30	NO	5.519e2	0.12594	0.12594	0.0563
7 Total Hexa-Dioxins	34.63	4.131e3	2.380e3	1.667e2	1.208e2	1.38	NO	2.875e2	0.068669	0.068669	0.0591
8 1,2,3,7,8,9-HxCDD	34.73	1.103e4	6.605e3	4.970e2	4.266e2	1.16	NO	9.236e2	0.20450	0.20450	0.0565

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 Total Hepta-Dioxins	37.19	4.854e4	6.090e4	3.964e3	4.234e3	0.94	NO	8.198e3	2.5026	2.5026	0.106
2 1,2,3,4,6,7,8-HpCDD	38.20	4.662e4	4.593e4	2.791e3	2.843e3	0.98	NO	5.634e3	1.7198	1.7198	0.106

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201215R2\201215R2_9.qld

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Name: 201215R2_9, Date: 15-Dec-2020, Time: 22:59:21, ID: 2002535-05 USMPDI-1009SC-A-04-05-201112 18.77, Description: USMPDI-1009SC-A-04-05-201112

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 Total Tetra-Furans	20.26	5.101e3	5.687e3	4.365e2	5.129e2	0.85	NO	9.494e2	0.12392	0.12392	0.0414
2 Total Tetra-Furans	20.82	3.035e3	3.074e3	1.899e2	2.640e2	0.72	NO	4.539e2	0.059246	0.059246	0.0414
3 Total Tetra-Furans	21.65	1.892e4	2.468e4	1.706e3	2.490e3	0.69	NO	4.197e3	0.54779	0.54779	0.0414
4 Total Tetra-Furans	21.99	3.650e3	4.282e3	3.517e2	4.312e2	0.82	NO	0.000e0	0.00000	0.10219	0.0414
5 Total Tetra-Furans	22.15	7.645e3	9.106e3	6.761e2	8.639e2	0.78	NO	0.000e0	0.00000	0.20101	0.0414
6 Total Tetra-Furans	22.25	3.996e3	3.595e3	2.678e2	2.625e2	1.02	YES	0.000e0	0.00000	0.060638	0.0414
7 Total Tetra-Furans	22.53	1.603e3	6.138e3	1.621e2	8.158e2	0.20	YES	0.000e0	0.00000	0.048627	0.0414
8 Total Tetra-Furans	22.58	4.549e3	1.984e3	5.422e2	1.959e2	2.77	YES	0.000e0	0.00000	0.045270	0.0414
9 Total Tetra-Furans	23.02	2.928e3	5.518e3	2.716e2	4.774e2	0.57	YES	0.000e0	0.00000	0.081479	0.0414
10 Total Tetra-Furans	23.16	4.053e3	4.564e3	2.142e2	2.658e2	0.81	NO	0.000e0	0.00000	0.062660	0.0414
11 Total Tetra-Furans	23.41	3.942e3	4.498e3	2.918e2	3.878e2	0.75	NO	6.796e2	0.088702	0.088702	0.0414
12 Total Tetra-Furans	23.81	6.859e3	6.299e3	2.749e2	3.758e2	0.73	NO	0.000e0	0.00000	0.084937	0.0414
13 Total Tetra-Furans	23.95	5.073e3	6.797e3	4.547e2	5.410e2	0.84	NO	0.000e0	0.00000	0.12996	0.0414
14 Total Tetra-Furans	24.12	4.907e3	8.259e3	3.269e2	4.827e2	0.68	NO	0.000e0	0.00000	0.10568	0.0414
15 Total Tetra-Furans	24.22	5.770e3	8.903e3	7.373e2	8.908e2	0.83	NO	0.000e0	0.00000	0.21251	0.0414
16 Total Tetra-Furans	24.65	9.281e3	8.633e3	5.363e2	6.551e2	0.82	NO	1.191e3	0.15550	0.15550	0.0414
17 Total Tetra-Furans	24.97	5.387e3	5.718e3	2.967e2	4.528e2	0.66	NO	0.000e0	0.00000	0.097833	0.0414
18 Total Tetra-Furans	25.08	3.647e3	4.533e3	2.202e2	3.101e2	0.71	NO	0.000e0	0.00000	0.069216	0.0414
19 Total Tetra-Furans	25.20	9.610e2	1.248e3	6.264e1	7.343e1	0.85	NO	0.000e0	0.00000	0.017761	0.0414
20 Total Tetra-Furans	25.36	3.370e3	5.193e3	2.824e2	3.751e2	0.75	NO	0.000e0	0.00000	0.085828	0.0414
21 Total Tetra-Furans	25.55	3.837e3	5.524e3	2.165e2	3.299e2	0.66	NO	0.000e0	0.00000	0.071315	0.0414
22 2,3,7,8-TCDF	25.67	6.635e3	9.442e3	3.960e2	4.672e2	0.85	NO	8.632e2	0.11266	0.11266	0.0414
23 Total Tetra-Furans	25.91	5.998e3	4.328e3	2.966e2	2.829e2	1.05	YES	0.000e0	0.00000	0.065369	0.0414
24 Total Tetra-Furans	25.97	5.955e3	7.854e3	3.756e2	4.693e2	0.80	NO	0.000e0	0.00000	0.11029	0.0414

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	27.15	9.522e3	5.965e3	7.035e2	4.721e2	1.49	NO	1.176e3	0.15436	0.15436	0.0140

Dataset: U:\VG12.PRO\Results\201215R2\201215R2_9.qld

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Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Penta-Furans	28.62	1.054e4	6.158e3	7.624e2	5.290e2	1.44	NO	1.291e3	0.16956	0.16956	0.0444
2	Total Penta-Furans	28.80	1.371e4	8.883e3	1.073e3	7.946e2	1.35	NO	1.868e3	0.24525	0.24525	0.0444
3	Total Penta-Furans	29.28	4.326e3	4.815e3	3.100e2	2.251e2	1.38	NO	5.350e2	0.070252	0.070252	0.0444
4	Total Penta-Furans	29.43	1.021e4	5.722e3	5.273e2	3.861e2	1.37	NO	9.135e2	0.11994	0.11994	0.0444
5	Total Penta-Furans	29.59	4.256e3	3.608e3	3.275e2	2.747e2	1.19	YES	0.000e0	0.00000	0.070742	0.0444
6	1,2,3,7,8-PeCDF	29.78	6.630e3	4.883e3	4.528e2	2.890e2	1.57	NO	7.418e2	0.094301	0.094301	0.0453
7	Total Penta-Furans	30.04	1.314e4	1.110e4	6.125e2	4.595e2	1.33	NO	1.072e3	0.14075	0.14075	0.0444
8	Total Penta-Furans	30.69	8.093e3	6.914e3	5.335e2	2.902e2	1.84	YES	0.000e0	0.00000	0.097179	0.0444
9	2,3,4,7,8-PeCDF	30.85	1.024e4	3.893e3	5.325e2	2.395e2	2.22	YES	7.720e2	0.00000	0.074558	0.0391

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Hexa-Furans	32.18	6.552e3	4.077e3	2.318e2	1.830e2	1.27	NO	4.149e2	0.083674	0.083674	0.0289
2	Total Hexa-Furans	32.35	1.562e4	1.008e4	6.843e2	5.680e2	1.20	NO	1.252e3	0.25255	0.25255	0.0289
3	Total Hexa-Furans	33.30	6.853e3	6.953e3	3.662e2	2.881e2	1.27	NO	6.543e2	0.13196	0.13196	0.0289
4	1,2,3,4,7,8-HxCDF	33.45	7.259e3	3.920e3	3.248e2	2.463e2	1.32	NO	5.711e2	0.11226	0.11226	0.0267
5	1,2,3,6,7,8-HxCDF	33.57	6.223e3	5.811e3	2.921e2	2.581e2	1.13	NO	5.502e2	0.10340	0.10340	0.0261
6	2,3,4,6,7,8-HxCDF	34.23	4.064e3	4.806e3	2.299e2	2.148e2	1.07	NO	4.446e2	0.091034	0.091034	0.0296
7	1,2,3,7,8,9-HxCDF	35.23	2.553e3	1.837e3	5.394e1	4.462e1	1.21	NO	9.856e1	0.022755	0.022755	0.0357
8	Total Hexa-Furans	35.24	3.113e3	2.521e3	1.450e2	8.933e1	1.62	YES	0.000e0	0.00000	0.040355	0.0289

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.81	1.364e4	1.510e4	9.921e2	9.227e2	1.08	NO	1.915e3	0.55011	0.55011	0.0459
2	Total Hepta-Furans	37.29	1.739e3	1.407e3	1.046e2	9.858e1	1.06	NO	2.032e2	0.064504	0.064504	0.0453
3	Total Hepta-Furans	37.55	2.550e3	2.288e3	1.644e2	1.699e2	0.97	NO	3.343e2	0.10612	0.10612	0.0453
4	1,2,3,4,7,8,9-HpCDF	38.83	2.181e3	1.948e3	1.002e2	9.321e1	1.08	NO	1.935e2	0.061228	0.061228	0.0396

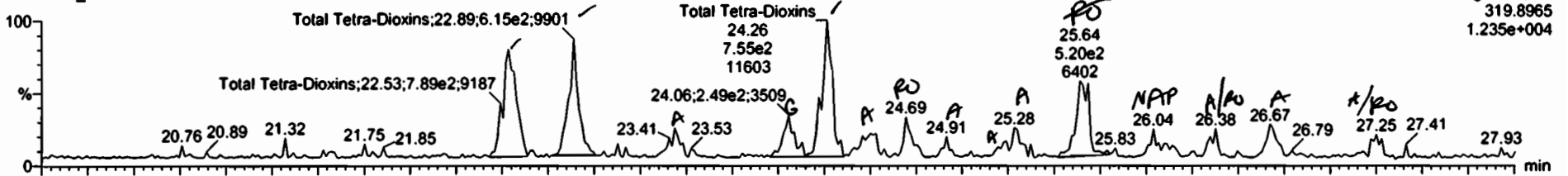
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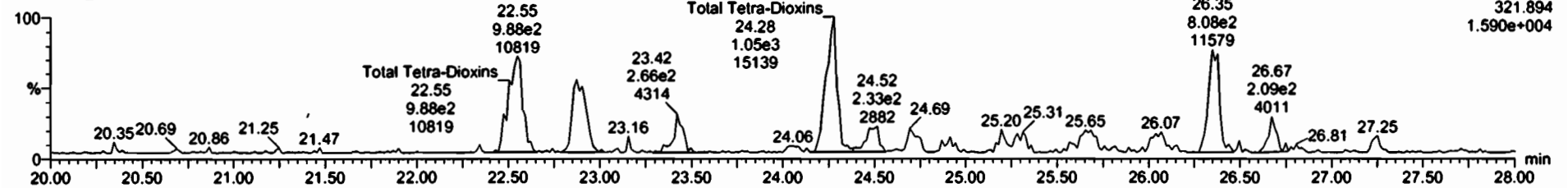
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2,3,7,8-TCDD

201215R2_9



201215R2_9

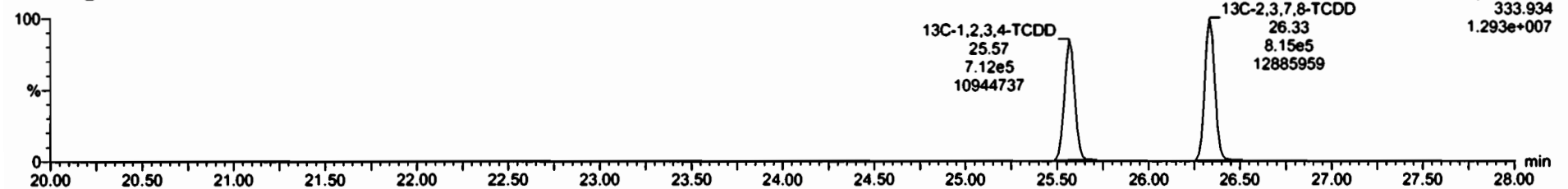


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201215R2_9

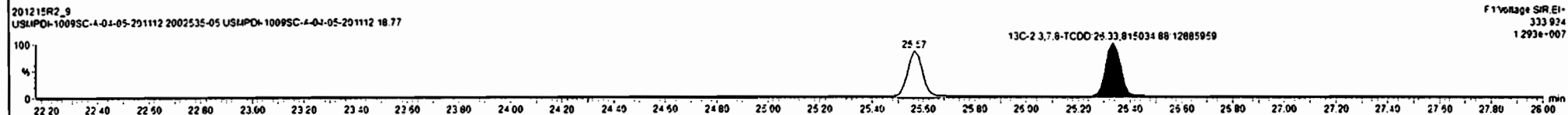
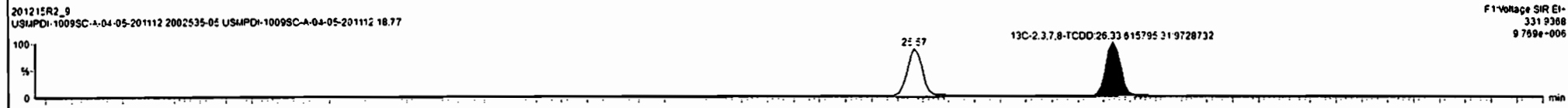
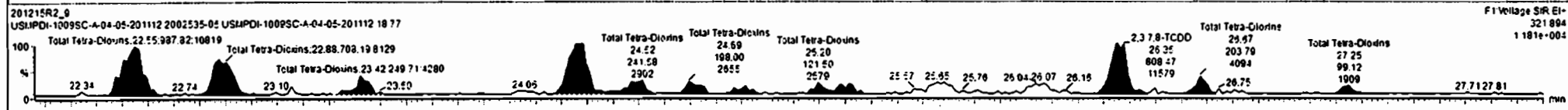
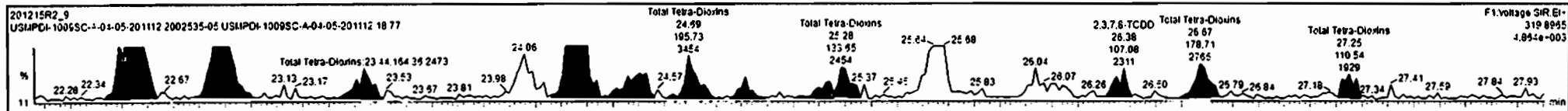


201215R2_9



Name	Reso	RA	n/y	RRF	wt/wt	RT	RRT	Conc.	%Rec	DL	EMPC
99 Total Tetra-Chlorins				0.9895	18.14C			0.897		0.0294	1.07

Name	RT	int Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Chlorins	22.53	7.896e2	9.676e2	0.82	NO	0.24577	0.24817
2 Total Tetra-Chlorins	22.89	8.153e2	7.682e2	0.87	NO	0.19505	0.18605
3 Total Tetra-Chlorins	23.44	1.644e2	2.497e2	0.65	NO	0.058218	0.058218
4 Total Tetra-Chlorins	24.26	7.550e2	1.042e3	0.72	NO	0.75283	0.25283
5 Total Tetra-Chlorins	24.50	2.033e2	2.416e2	0.86	NO	0.063252	0.00000
6 Total Tetra-Chlorins	24.69	1.957e2	1.960e2	0.99	YES	0.049273	0.00000
7 Total Tetra-Chlorins	24.91	7.623e1	1.056e2	0.72	NO	0.025569	0.025569
8 Total Tetra-Chlorins	25.24	8.312e1	1.215e2	0.68	NO	0.028768	0.028768
9 Total Tetra-Chlorins	25.26	1.337e2	1.843e2	0.81	NO	0.041897	0.041897
10 2,3,7,8-TCDD	26.36	1.671e2	5.085e2	0.13	YES	0.034607	0.00000
11 Total Tetra-Chlorins	26.67	1.737e2	2.036e2	0.86	NO	0.063779	0.063779
12 Total Tetra-Chlorins	27.25	1.105e2	9.912e1	1.12	YES	0.024567	0.00000



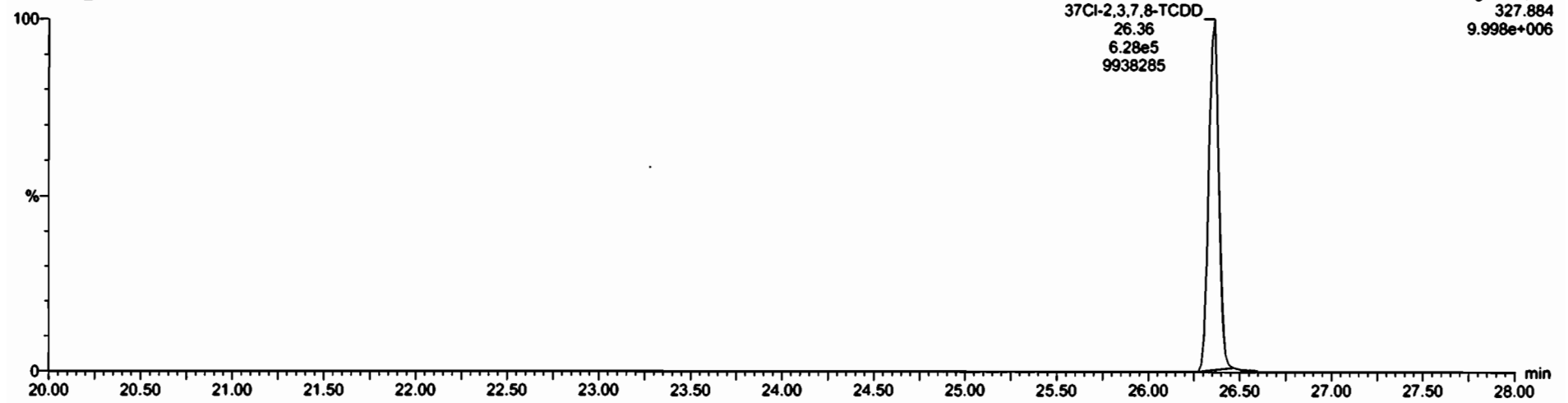
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37Cl-2,3,7,8-TCDD

201215R2_9

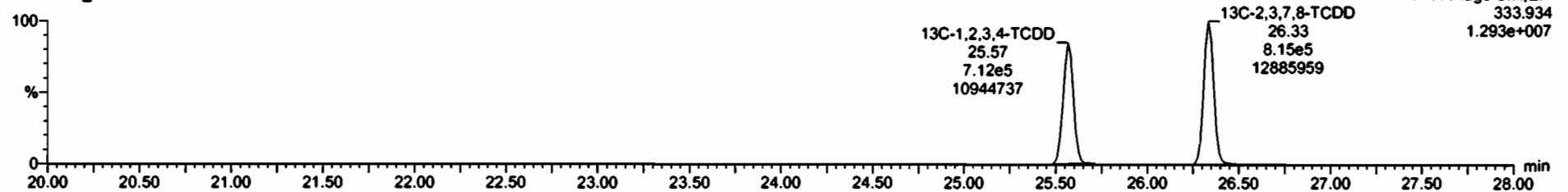


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201215R2_9



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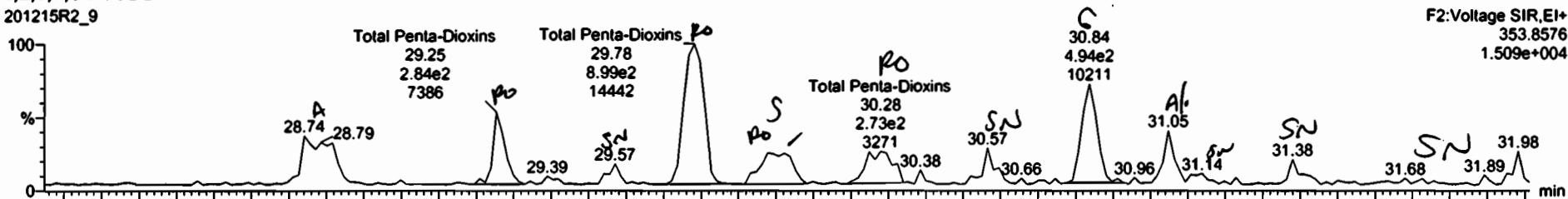
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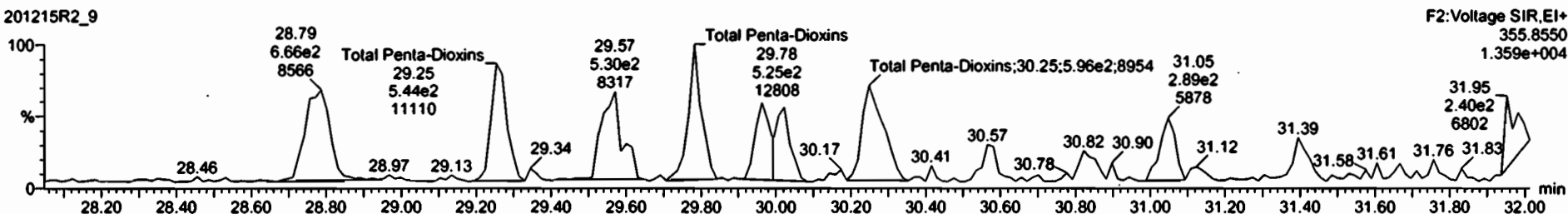
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1,2,3,7,8-PeCDD

201215R2_9



201215R2_9

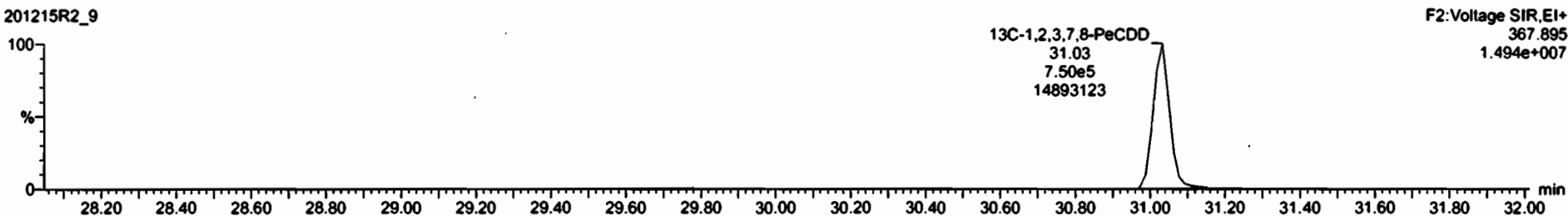


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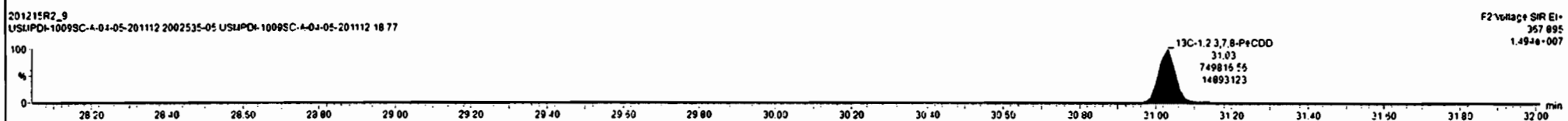
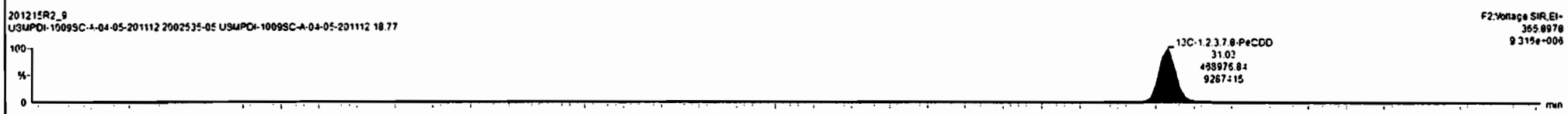
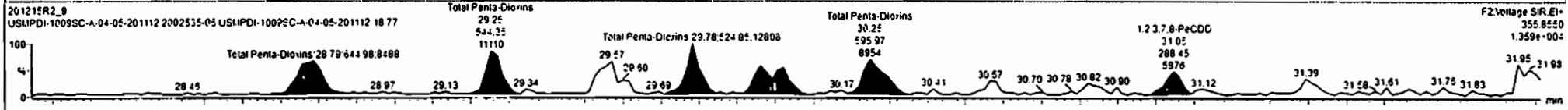
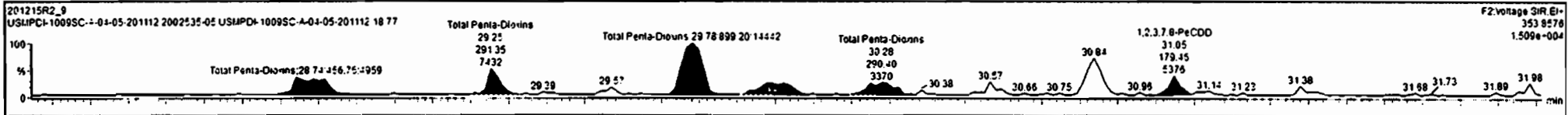


201215R2_9



Name	Reso	RA	nY	RRF	wt%at	RT	QRT	Conc.	%Rec	DL	EUPC
39	Total Tetra-Dioxins			0.985E	10.140			0.897	0.0294		1.07

Name	RT	wt Resp	m3 Resp	RA	nY	EMPC	Conc.	
1	Total Penta-Dioxins	28.74	4.588e2	8.456e2	0.71	NO	2.18132	0.15132
2	Total Penta-Dioxins	29.25	2.914e2	5.447e2	0.54	YES	2.13091	0.05000
3	Total Penta-Dioxins	29.78	8.952e2	5.242e2	1.71	YES	0.14258	0.05000
4	Total Penta-Dioxins	29.86	1.391e2	3.227e2	0.43	YES	0.062478	0.05000
5	Total Penta-Dioxins	30.02	1.862e2	3.018e2	0.62	NO	0.084767	0.064707
6	Total Penta-Dioxins	30.28	2.654e2	5.960e2	0.49	YES	0.13047	0.05000
7	1,2,3,7,8-PeCDD	31.05	1.795e2	2.885e2	0.62	NO	0.081255	0.081255



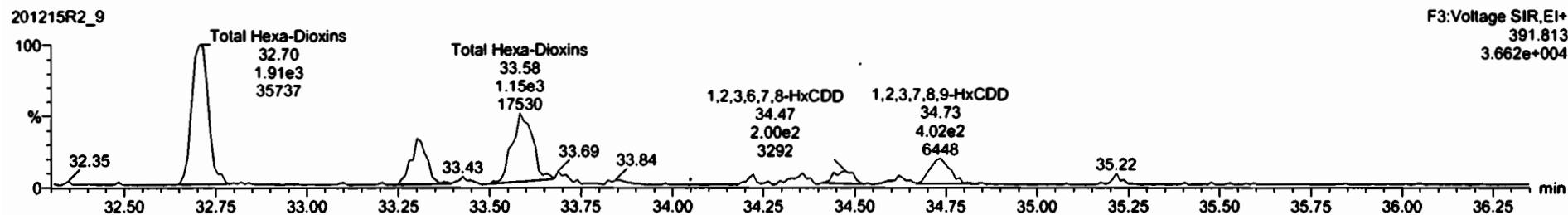
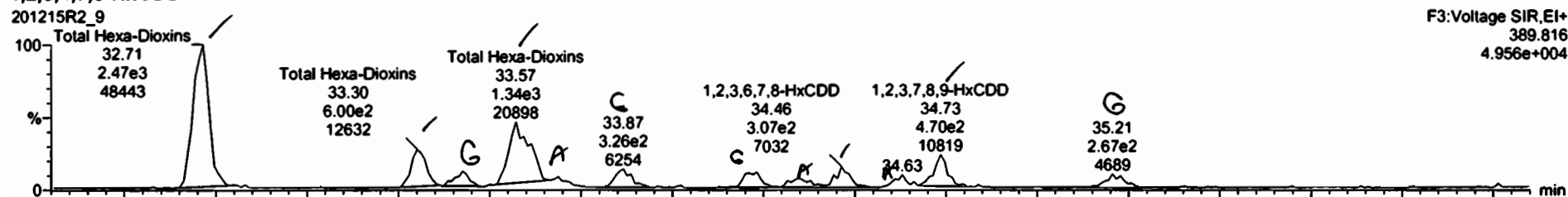
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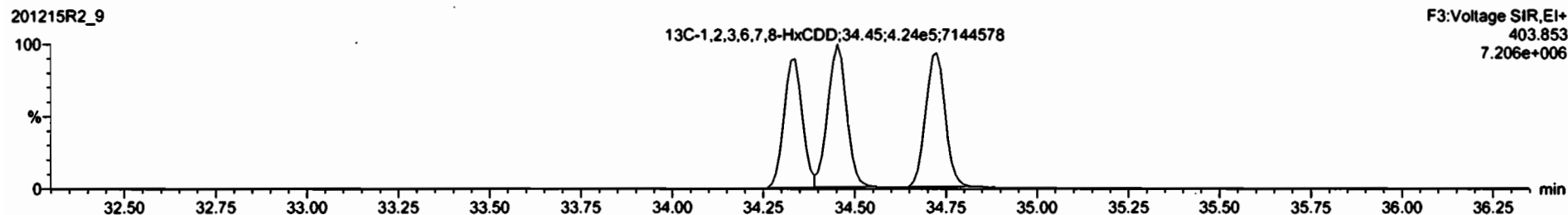
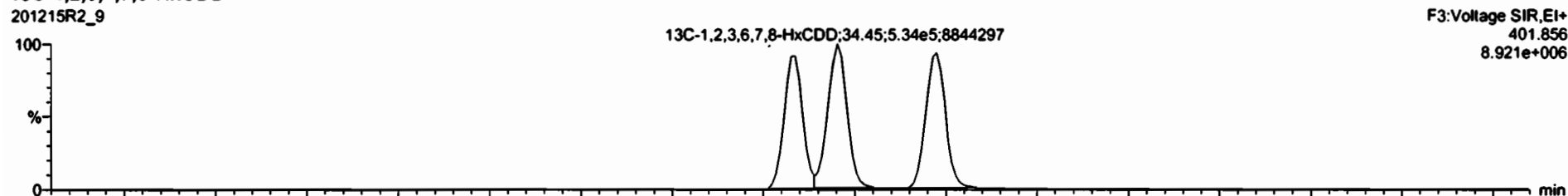
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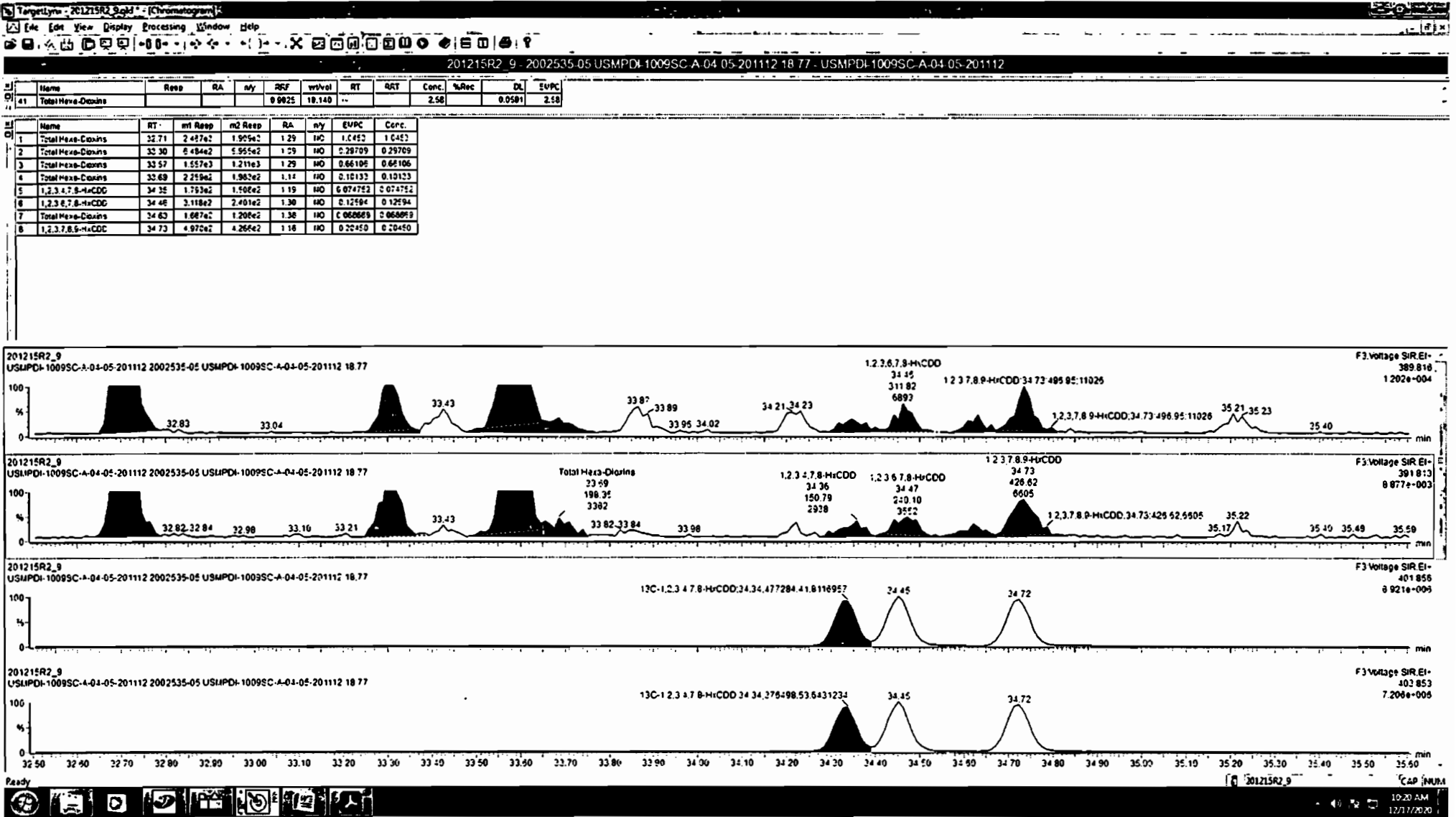
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1,2,3,4,7,8-HxCDD



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





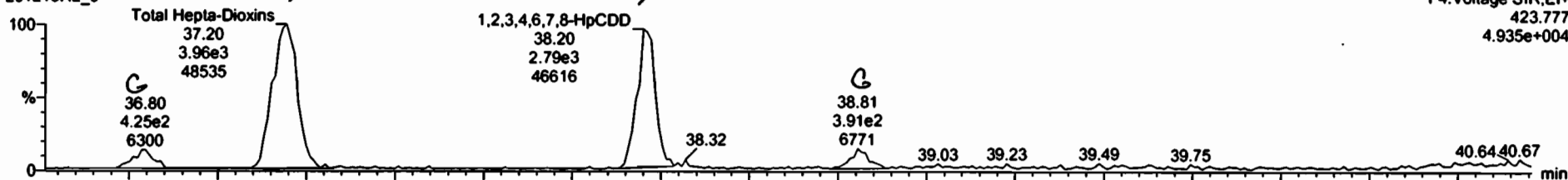
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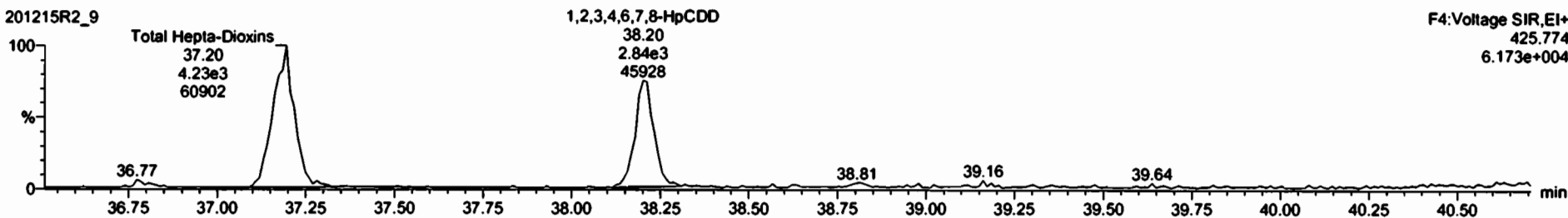
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1,2,3,4,6,7,8-HpCDD

201215R2_9



201215R2_9

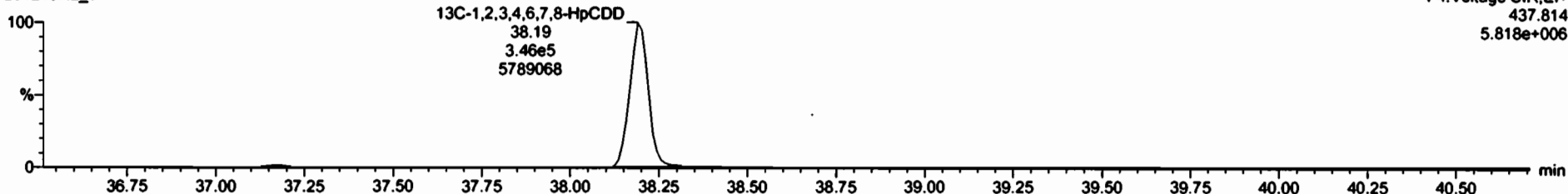


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201215R2_9



201215R2_9



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OCDD

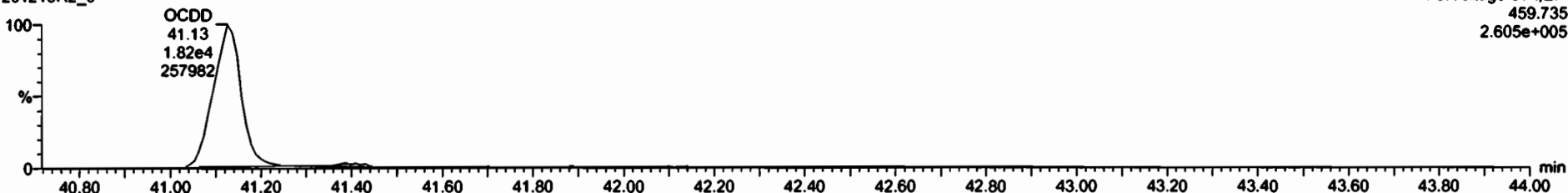
201215R2_9

F5:Voltage SIR,EI+
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2.186e+005



201215R2_9

F5:Voltage SIR,EI+
459.735
2.605e+005



13C-OCDD

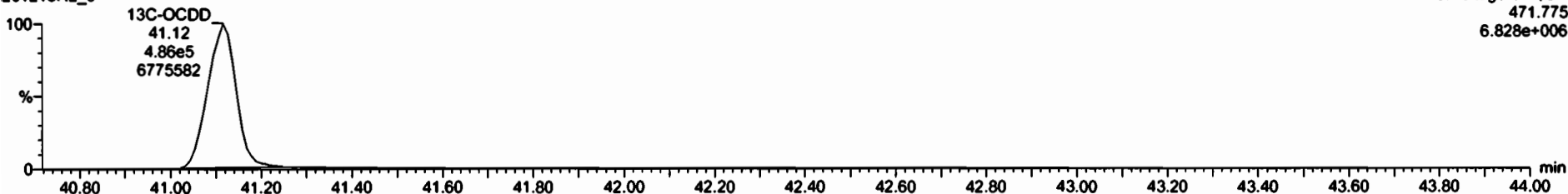
201215R2_9

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6.109e+006



201215R2_9

F5:Voltage SIR,EI+
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6.828e+006

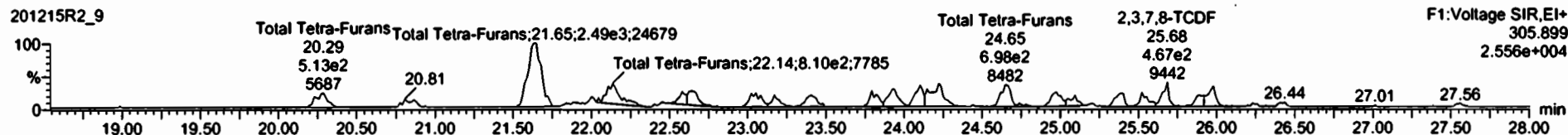
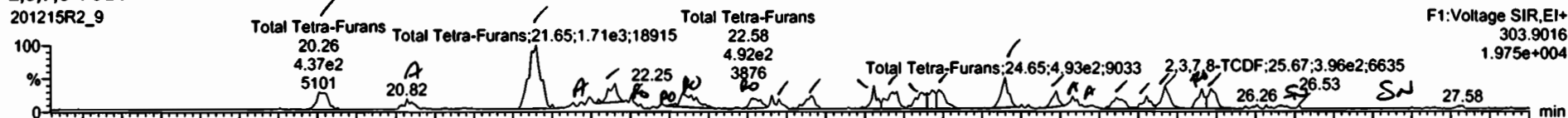


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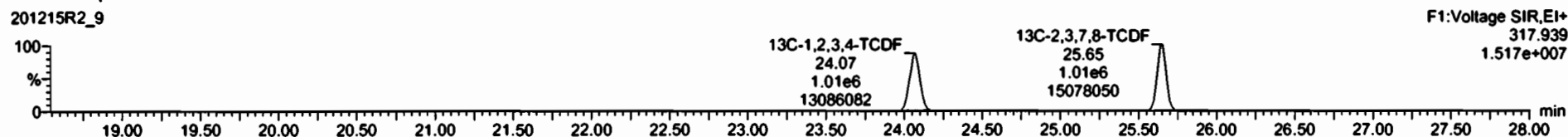
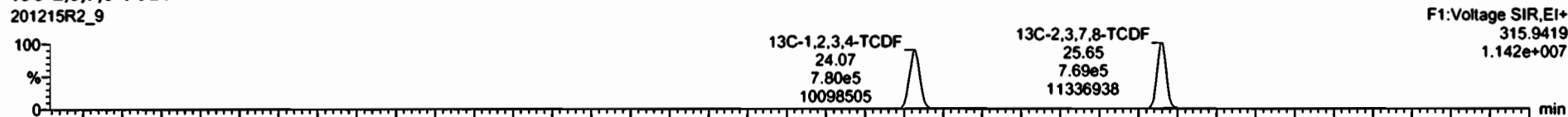
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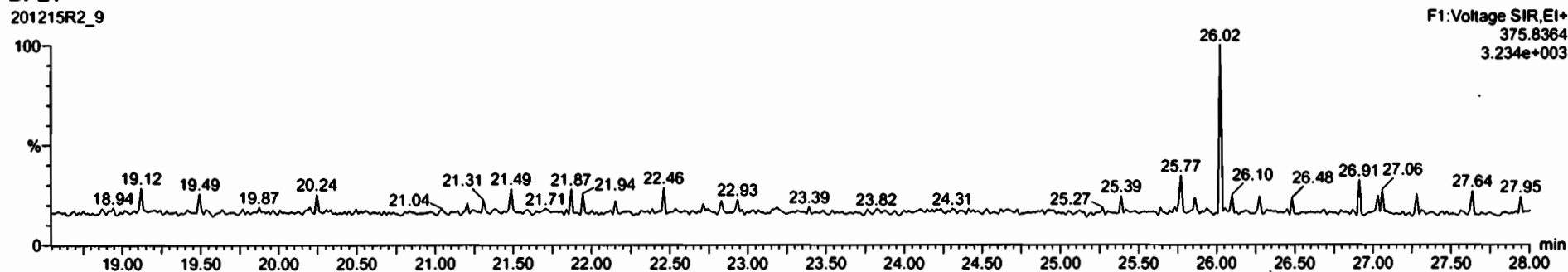
2,3,7,8-TCDF



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

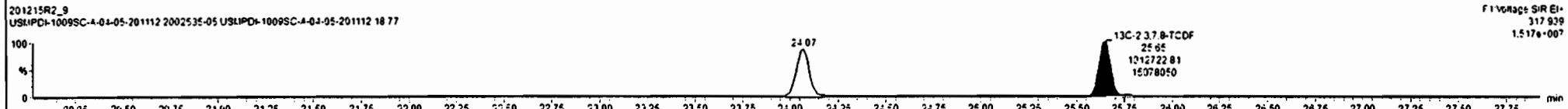
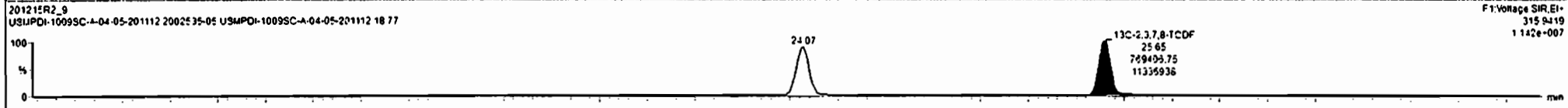
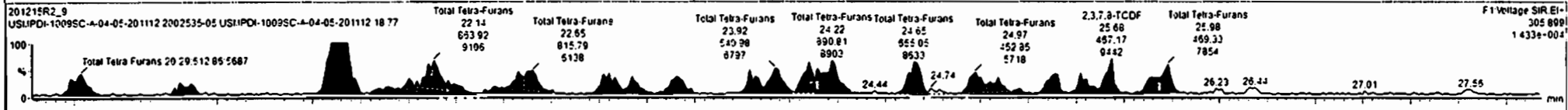
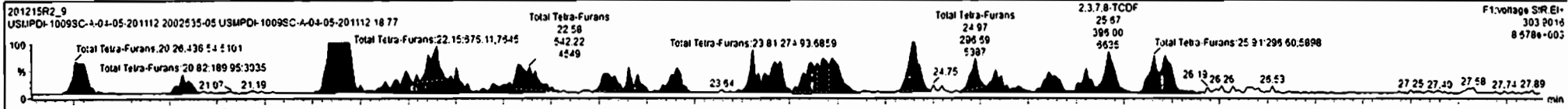


DPE1



#	Name	Reso	RA	n/y	RFI	wt/vol	RT	SAT	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans				0.8480	18.140			1.00		0.0414	2.74

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
9	Total Tetra-Furans	22.22	2.716e2	4.774e2	0.57	YES	0.001475	0.00205
10	Total Tetra-Furans	22.16	2.142e2	2.852e2	0.51	NO	0.002500	0.00300
11	Total Tetra-Furans	22.41	2.918e2	3.872e2	0.75	NO	0.008702	0.008702
12	Total Tetra-Furans	22.51	2.749e2	3.758e2	0.73	NO	0.004937	0.00500
13	Total Tetra-Furans	22.96	4.547e2	5.410e2	0.84	NO	0.12398	0.00200
14	Total Tetra-Furans	24.12	3.269e2	4.827e2	0.68	NO	0.10562	0.00300
15	Total Tetra-Furans	24.22	7.373e2	8.906e2	0.83	NO	0.22251	0.00200
16	Total Tetra-Furans	24.65	5.363e2	6.551e2	0.82	NO	0.15550	0.15550
17	Total Tetra-Furans	24.97	2.987e2	4.528e2	0.68	NO	0.067833	0.00200
18	Total Tetra-Furans	25.06	2.202e2	3.101e2	0.71	NO	0.069215	0.00300
19	Total Tetra-Furans	25.20	8.264e1	7.342e1	0.85	NO	0.017761	0.00200
20	Total Tetra-Furans	25.36	2.824e2	3.751e2	0.75	NO	0.085825	0.00300
21	Total Tetra-Furans	25.55	2.151e2	3.269e2	0.68	NO	0.071215	0.00200
22	2,3,7,8-TCDF	25.67	3.962e2	4.672e2	0.85	NO	0.11268	0.11268
23	Total Tetra-Furans	25.91	2.966e2	2.829e2	1.05	YES	0.025269	0.00200
24	Total Tetra-Furans	25.97	3.764e2	4.653e2	0.86	NO	0.11279	0.00200



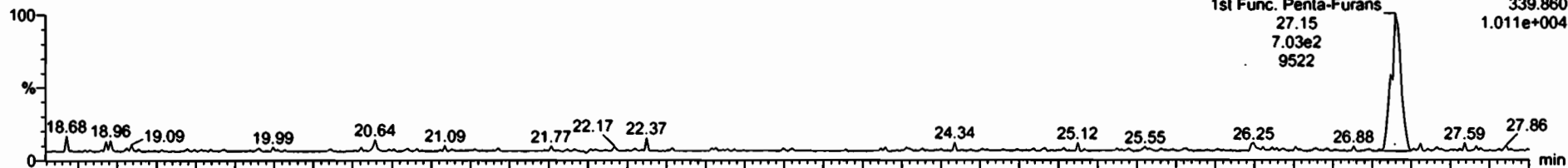
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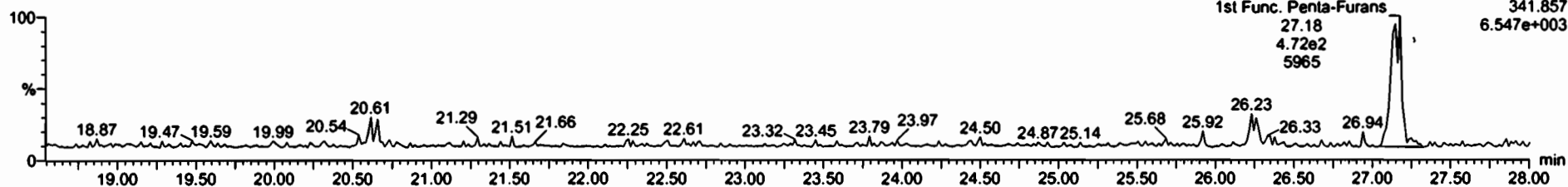
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1st Func. Penta-Furans

201215R2_9

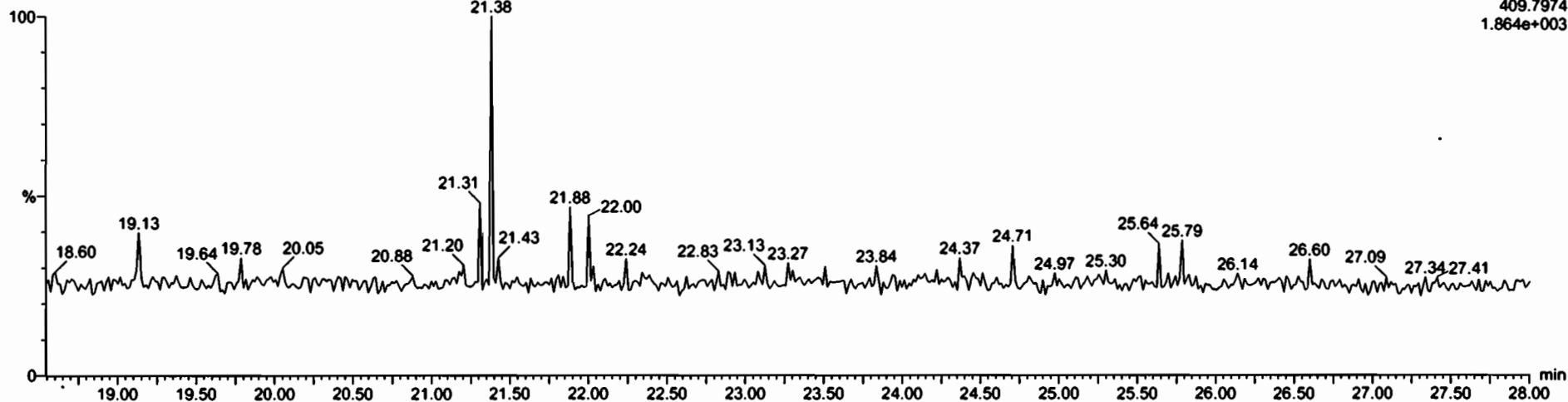


201215R2_9



DPE6

201215R2_9



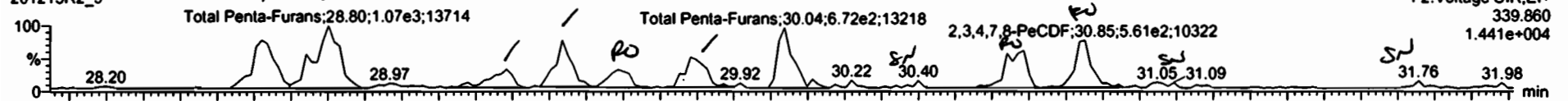
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Last Altered: Wednesday, December 16, 2020 7:04:18 AM Pacific Standard Time
Printed: Wednesday, December 16, 2020 7:06:08 AM Pacific Standard Time

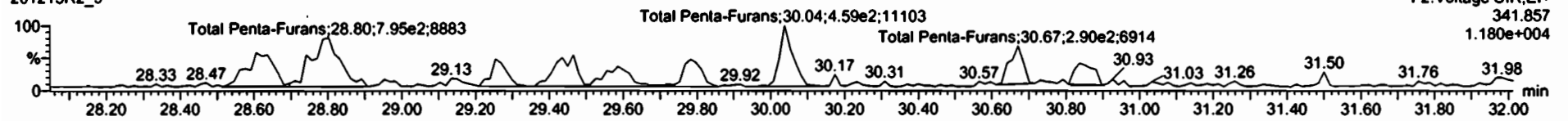
Name: 201215R2_9, Date: 15-Dec-2020, Time: 22:59:21, ID: 2002535-05 USMPDI-1009SC-A-04-05-201112 18.77, Description: USMPDI-1009SC-A-04-05-201112

1,2,3,7,8-PeCDF

201215R2_9

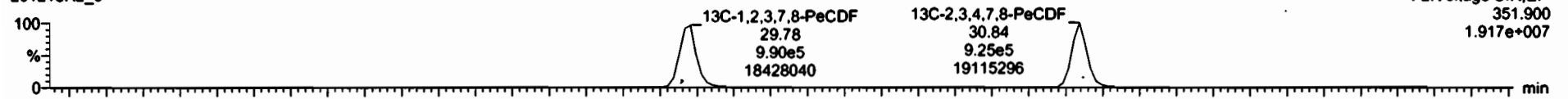


201215R2_9

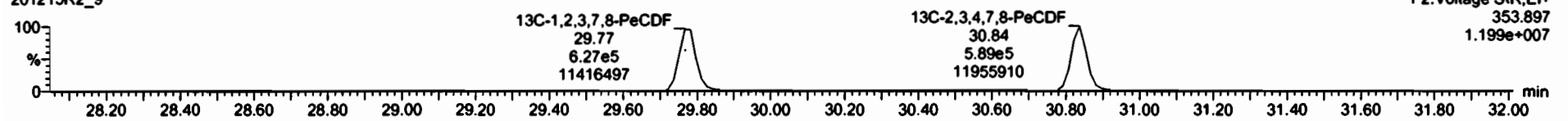


13C-1,2,3,7,8-PeCDF

201215R2_9

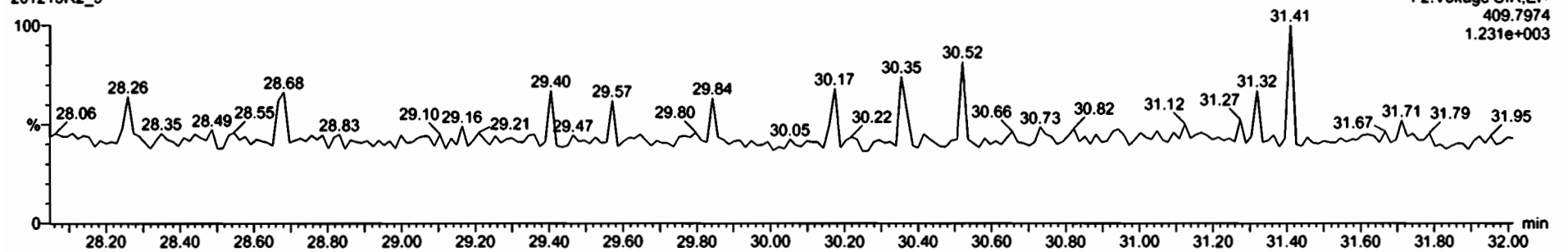


201215R2_9



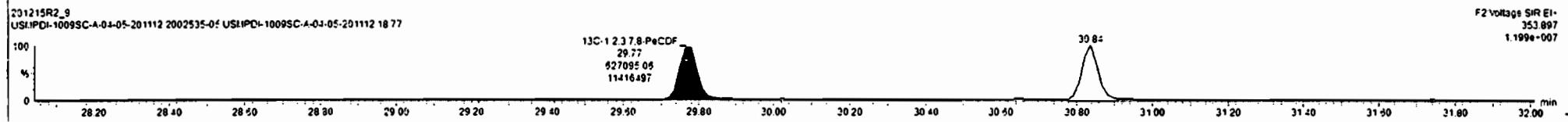
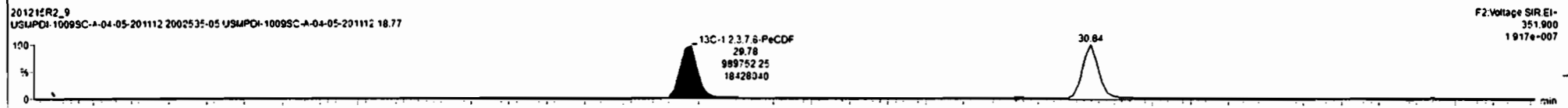
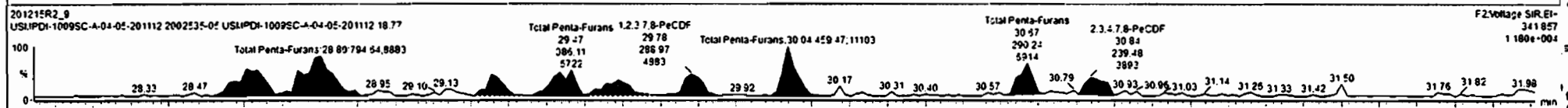
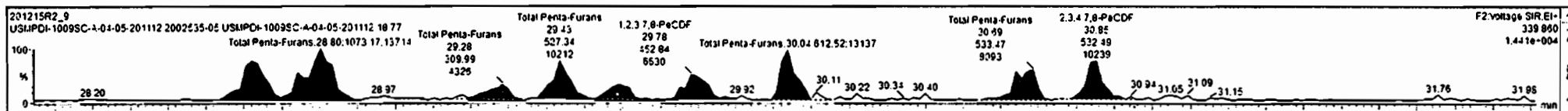
DPE2

201215R2_9



Name	Resp	RA	n/y	R/R	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
25	Total Penta-Furans			0.9597	18.140			0.840	0.0444	1.88	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.	
1	Total Penta-Furans	28.82	7.624e2	5.296e2	1.44	NO	5.1635E	0.15956
2	Total Penta-Furans	28.90	1.672e3	7.547e2	1.35	NO	5.2452E	0.21525
3	Total Penta-Furans	29.28	3.102e2	2.251e2	1.38	NO	0.070252	0.070252
4	Total Penta-Furans	29.43	3.272e2	3.661e2	1.37	NO	0.11904	0.11904
5	Total Penta-Furans	29.59	3.275e2	2.747e2	1.19	YES	0.070742	0.03000
6	1,2,3,7,8-PeCDF	29.78	4.528e2	2.690e2	1.57	NO	0.094301	0.094301
7	Total Penta-Furans	30.04	6.125e2	4.555e2	1.33	NO	0.1407E	0.1407E
8	Total Penta-Furans	30.69	5.325e2	2.902e2	1.84	YES	0.097179	0.03000
9	2,3,4,7,8-PeCDF	30.85	5.325e2	2.395e2	2.22	YES	0.074558	0.03000

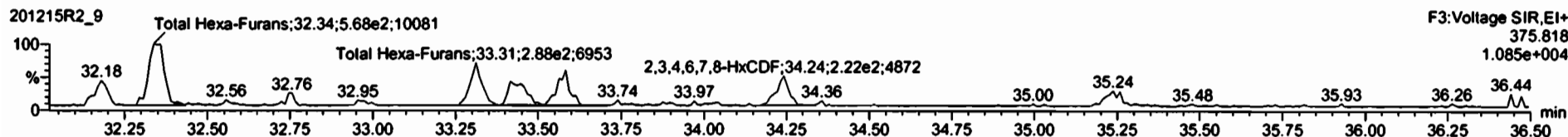
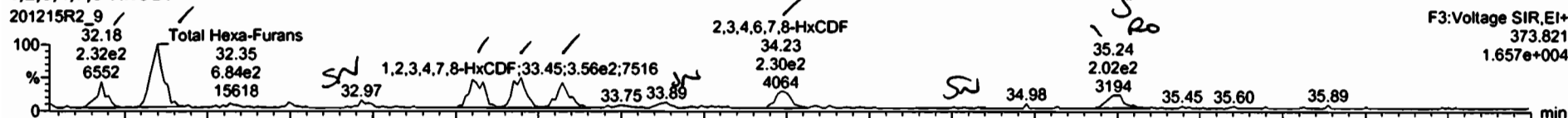


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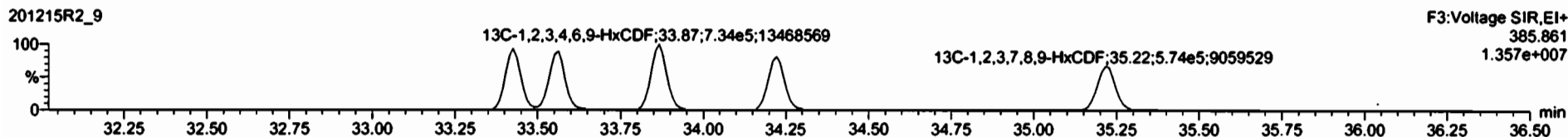
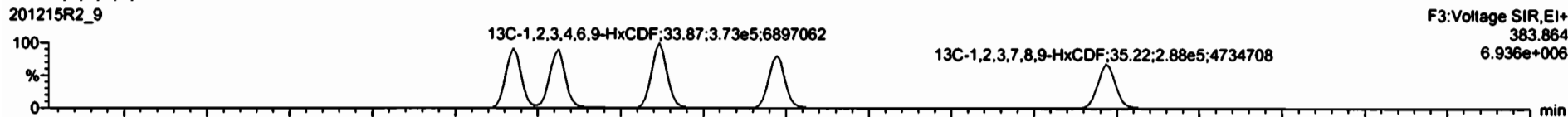
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Printed: Wednesday, December 16, 2020 7:06:08 AM Pacific Standard Time

Name: 201215R2_9, Date: 15-Dec-2020, Time: 22:59:21, ID: 2002535-05 USMPDI-1009SC-A-04-05-201112 18.77, Description: USMPDI-1009SC-A-04-05-201112

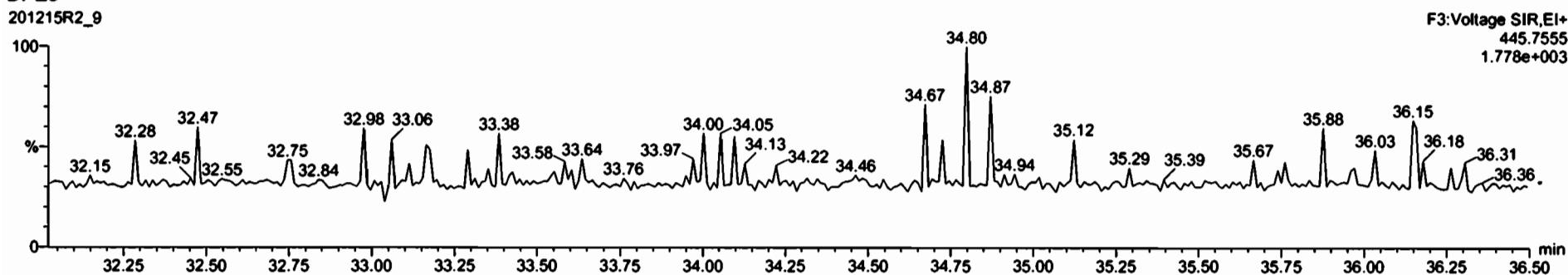
1,2,3,4,7,8-HxCDF



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

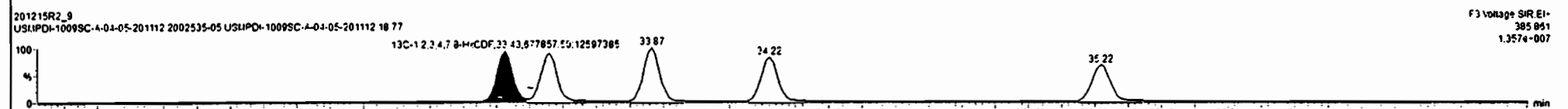
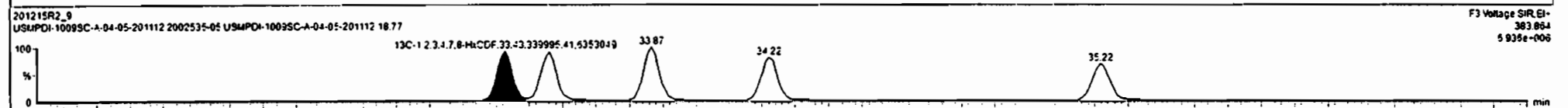
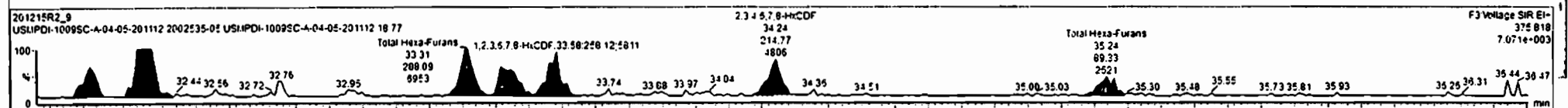
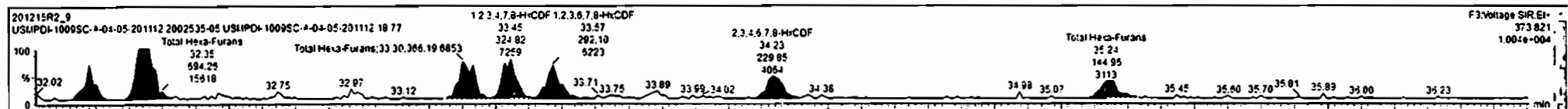


DPE3



Name	Reso	RA	n/y	RFI	wt/vol	RT	QRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9597	10.143			0.840	0.0444	1.03	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.16	2.218e2	1.836e2	1.27	NO	0.083674	0.083674
2 Total Hexa-Furans	32.35	6.843e2	5.680e2	1.20	NO	0.25255	0.25255
3 Total Hexa-Furans	33.30	3.662e2	2.861e2	1.27	NO	0.13196	0.13196
4 1,2,3,4,7,8-HxCDF	33.45	2.248e2	2.462e2	1.32	NO	0.11228	0.11228
5 1,2,3,6,7,8-HxCDF	33.57	2.821e2	2.581e2	1.12	NO	0.10340	0.10340
6 2,3,4,6,7,8-HxCDF	34.23	2.295e2	2.146e2	1.07	NO	0.091034	0.091034
7 1,2,3,7,8,9-HxCDF	35.25	5.394e1	4.462e1	1.21	NO	0.022755	0.022755
8 Total Hexa-Furans	35.24	1.450e2	8.937e1	1.62	YES	0.040355	0.040355

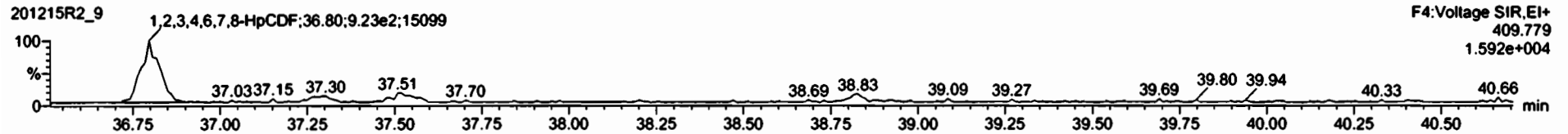
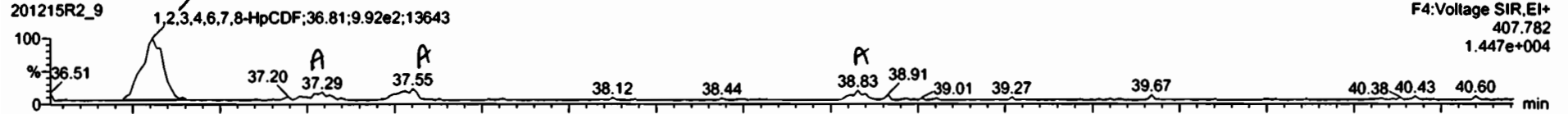


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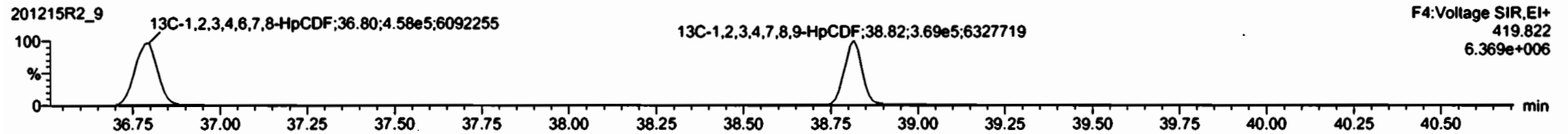
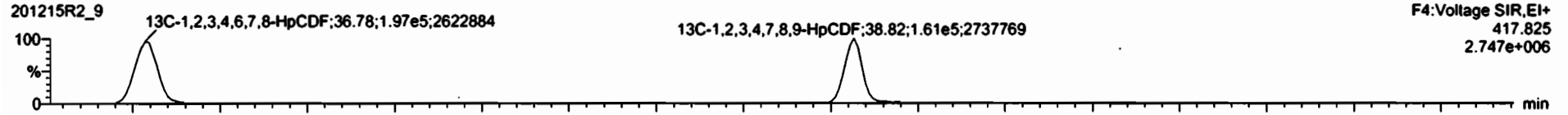
Last Altered: Wednesday, December 16, 2020 7:04:18 AM Pacific Standard Time
Printed: Wednesday, December 16, 2020 7:06:08 AM Pacific Standard Time

Name: 201215R2_9, Date: 15-Dec-2020, Time: 22:59:21, ID: 2002535-05 USMPDI-1009SC-A-04-05-201112 18.77, Description: USMPDI-1009SC-A-04-05-201112

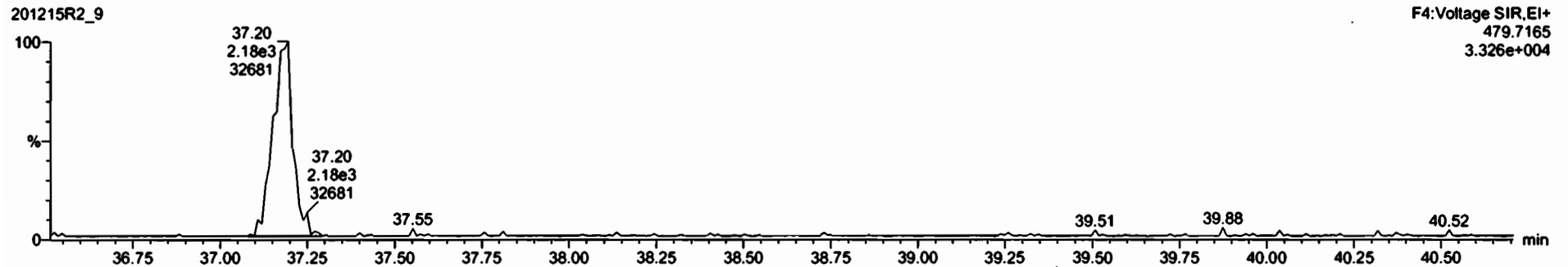
1,2,3,4,6,7,8-HpCDF



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

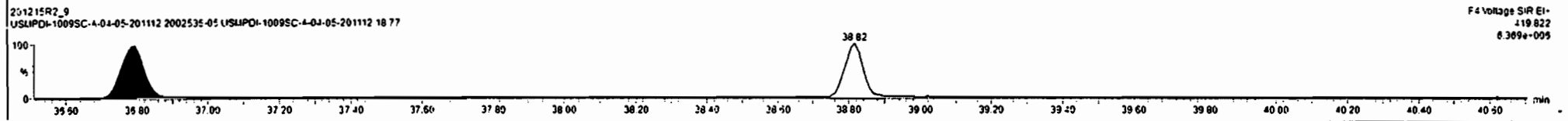
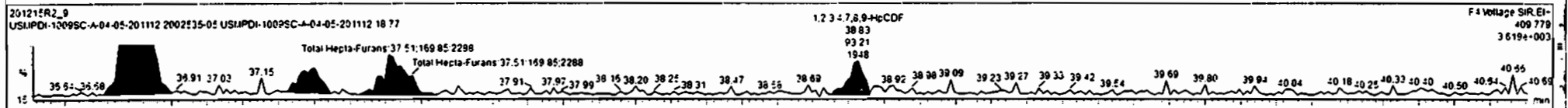
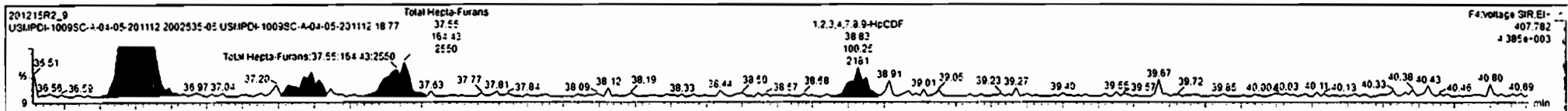


DPE4



Name	Rese	RA	n/y	RRF	wt/vol	RT	QAT	Conc.	%Rec	DL	EUPC
47	Total Hepta-Furans			1.0482	18.140			0.782		0.0453	0.782

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.	
1	1,2,3,4,6,7,8-HpCDF	36.81	5.921e2	5.227e2	1.08	NO	0.55211	0.65511
2	Total Hepta-Furans	37.29	1.046e2	9.652e1	1.08	NO	0.084504	2.084504
3	Total Hepta-Furans	37.55	1.644e2	1.699e2	0.97	NO	0.10612	0.10612
4	1,2,3,4,7,8,9-HpCDF	38.83	1.652e2	9.221e1	1.58	NO	0.061228	0.061228

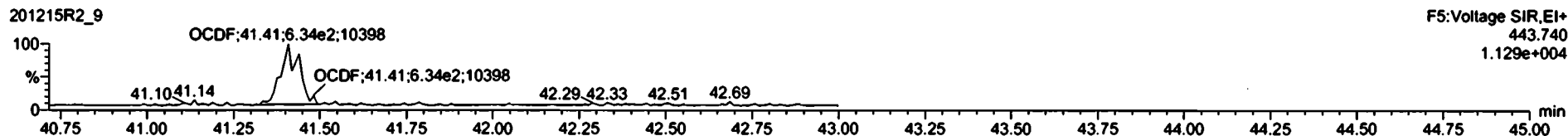
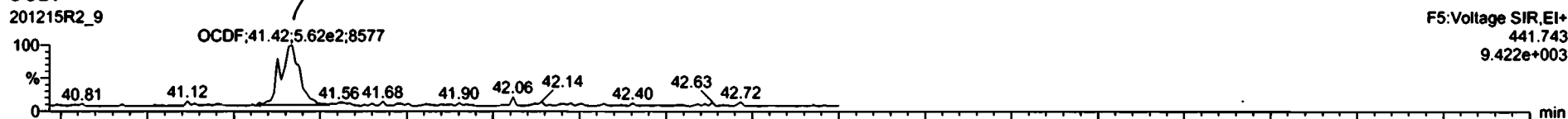


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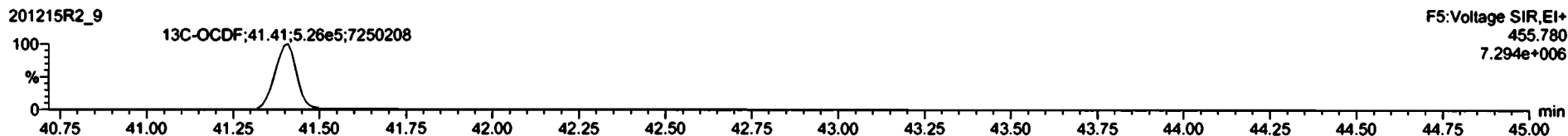
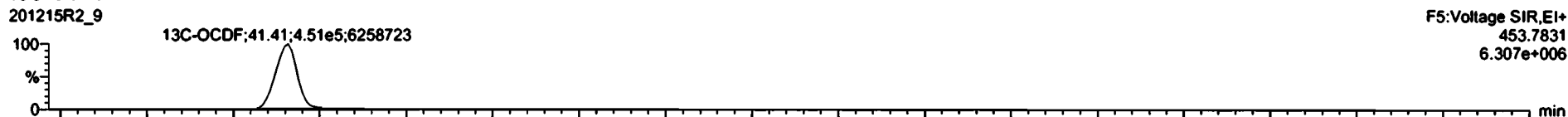
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Printed: Wednesday, December 16, 2020 7:06:08 AM Pacific Standard Time

Name: 201215R2_9, Date: 15-Dec-2020, Time: 22:59:21, ID: 2002535-05 USMPDI-1009SC-A-04-05-201112 18.77, Description: USMPDI-1009SC-A-04-05-201112

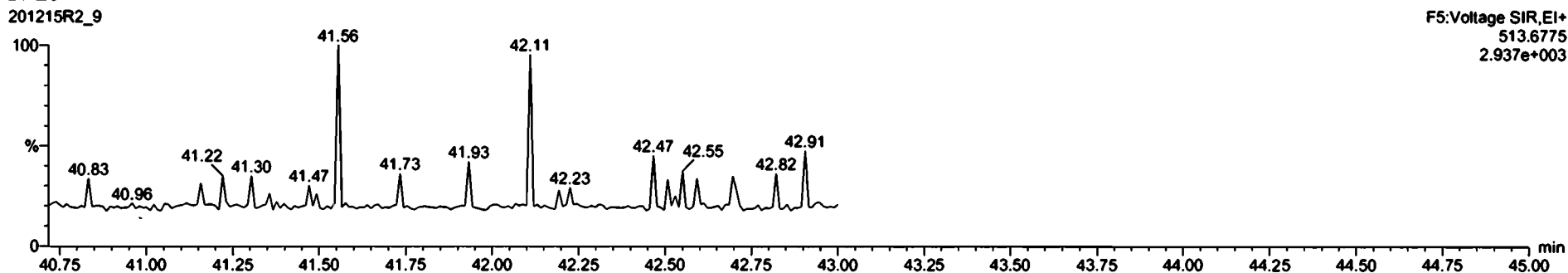
OCDF



13C-OCDF



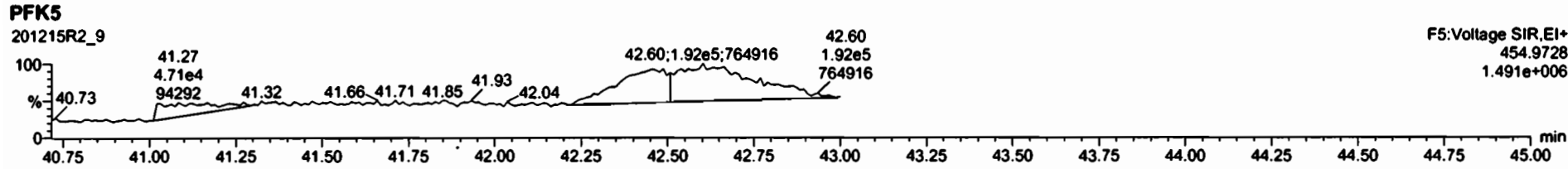
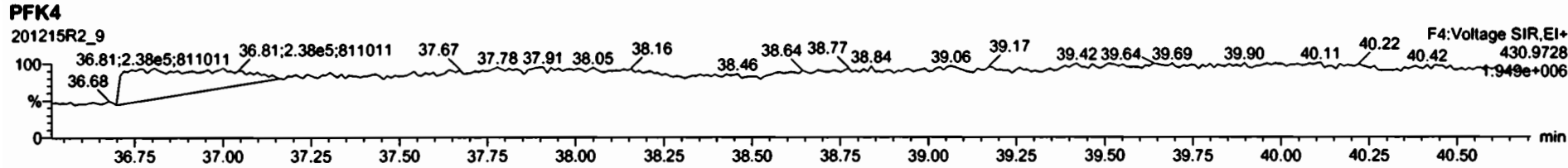
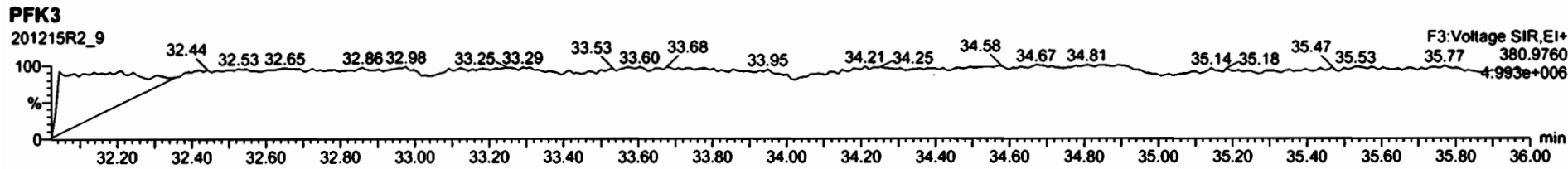
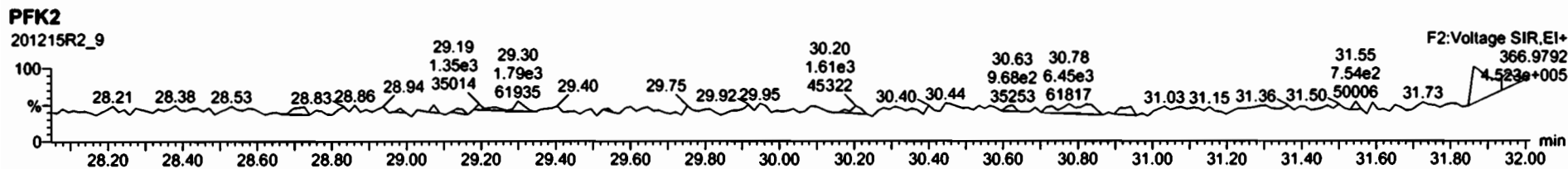
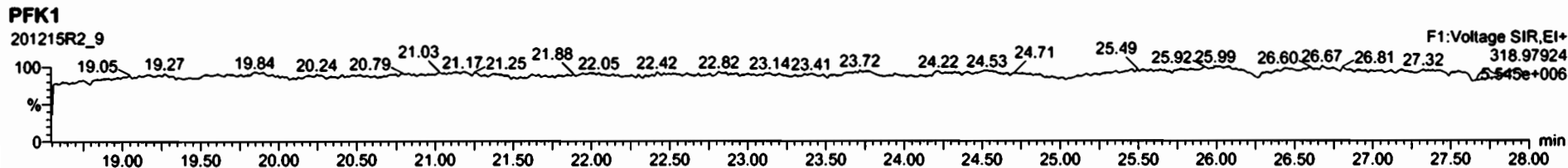
DPE5



Dataset: Untitled

Last Altered: Wednesday, December 16, 2020 7:04:18 AM Pacific Standard Time
Printed: Wednesday, December 16, 2020 7:06:08 AM Pacific Standard Time

Name: 201215R2_9, Date: 15-Dec-2020, Time: 22:59:21, ID: 2002535-05 USMPDI-1009SC-A-04-05-201112 18.77, Description: USMPDI-1009SC-A-04-05-201112



CONTINUING CALIBRATION

Dataset: U:\VG12.PRO\Results\201213R2\201213R2-1.qld

Last Altered: Monday, December 14, 2020 07:31:05 Pacific Standard Time
Printed: Monday, December 14, 2020 07:31:43 Pacific Standard Time

GPB 12/14/2020

HZ 12-15-2020

Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201213R2_1, Date: 13-Dec-2020, Time: 10:15:18, ID: ST201213R2_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

#	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	1.60e5	1.56e6	0.76	NO	0.980	26.41	26.41	NO	1.001	1.001	10.462	105	NO
2	2 1,2,3,7,8-PeCDD	5.68e5	1.12e6	0.62	NO	0.932	31.08	31.06	NO	1.001	1.000	54.227	108	NO
3	3 1,2,3,4,7,8-HxCDD	4.67e5	8.51e5	1.23	NO	1.02	34.38	34.37	NO	1.001	1.000	53.815	108	NO
4	4 1,2,3,6,7,8-HxCDD	4.58e5	9.70e5	1.24	NO	0.902	34.49	34.49	NO	1.001	1.001	52.277	105	NO
5	5 1,2,3,7,8,9-HxCDD	4.62e5	9.36e5	1.22	NO	0.954	34.76	34.76	NO	1.000	1.000	51.736	103	NO
6	6 1,2,3,4,6,7,8-HpCDD	3.44e5	7.58e5	1.05	NO	0.918	38.21	38.21	NO	1.000	1.000	49.462	98.9	NO
7	7 OCDD	5.93e5	1.31e6	0.88	NO	0.866	41.11	41.12	NO	1.000	1.000	104.77	105	NO
8	8 2,3,7,8-TCDF	1.78e5	2.21e6	0.73	NO	0.848	25.70	25.73	NO	1.000	1.001	9.4961	95.0	NO
9	9 1,2,3,7,8-PeCDF	8.47e5	1.70e6	1.56	NO	0.960	29.80	29.81	NO	1.000	1.001	51.873	104	NO
10	10 2,3,4,7,8-PeCDF	8.70e5	1.58e6	1.56	NO	1.07	30.89	30.87	NO	1.001	1.000	51.645	103	NO
11	11 1,2,3,4,7,8-HxCDF	5.41e5	1.10e6	1.21	NO	0.986	33.46	33.46	NO	1.000	1.000	49.746	99.5	NO
12	12 1,2,3,6,7,8-HxCDF	5.68e5	1.13e6	1.20	NO	1.04	33.60	33.59	NO	1.001	1.000	48.425	96.8	NO
13	13 2,3,4,6,7,8-HxCDF	5.35e5	1.06e6	1.21	NO	1.02	34.26	34.26	NO	1.001	1.001	49.404	98.8	NO
14	14 1,2,3,7,8,9-HxCDF	4.73e5	9.62e5	1.22	NO	0.991	35.26	35.26	NO	1.000	1.000	49.563	99.1	NO
15	15 1,2,3,4,6,7,8-HpCDF	3.99e5	7.74e5	1.00	NO	1.05	36.83	36.83	NO	1.000	1.001	49.169	98.3	NO
16	16 1,2,3,4,7,8,9-HpCDF	3.66e5	6.31e5	0.99	NO	1.18	38.83	38.83	NO	1.000	1.000	49.340	98.7	NO
17	17 OCDF	6.29e5	1.39e6	0.87	NO	0.896	41.41	41.41	NO	1.000	1.000	100.97	101	NO
18	18 13C-2,3,7,8-TCDD	1.56e6	1.46e6	0.78	NO	1.06	26.40	26.38	NO	1.030	1.029	101.59	102	NO
19	19 13C-1,2,3,7,8-PeCDD	1.12e6	1.46e6	0.63	NO	0.785	31.25	31.05	NO	1.219	1.212	98.261	98.3	NO
20	20 13C-1,2,3,4,7,8-HxCDD	8.51e5	1.23e6	1.29	NO	0.621	34.35	34.36	NO	1.014	1.014	111.96	112	NO
21	21 13C-1,2,3,6,7,8-HxCDD	9.70e5	1.23e6	1.27	NO	0.734	34.47	34.47	NO	1.017	1.017	107.88	108	NO
22	22 13C-1,2,3,7,8,9-HxCDD	9.36e5	1.23e6	1.27	NO	0.723	34.75	34.74	NO	1.026	1.025	105.65	106	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	7.58e5	1.23e6	1.05	NO	0.568	38.26	38.20	NO	1.129	1.127	108.94	109	NO
24	24 13C-OCDD	1.31e6	1.23e6	0.93	NO	0.496	41.19	41.11	NO	1.216	1.213	215.35	108	NO
25	25 13C-2,3,7,8-TCDF	2.21e6	2.29e6	0.78	NO	0.919	25.70	25.70	NO	1.003	1.003	104.96	105	NO
26	26 13C-1,2,3,7,8-PeCDF	1.70e6	2.29e6	1.60	NO	0.715	29.96	29.80	NO	1.169	1.163	103.72	104	NO
27	27 13C-2,3,4,7,8-PeCDF	1.58e6	2.29e6	1.59	NO	0.689	31.04	30.87	NO	1.212	1.205	99.989	100	NO
28	28 13C-1,2,3,4,7,8-HxCDF	1.10e6	1.23e6	0.51	NO	0.873	33.45	33.45	NO	0.987	0.987	103.08	103	NO
29	29 13C-1,2,3,6,7,8-HxCDF	1.13e6	1.23e6	0.50	NO	0.933	33.58	33.58	NO	0.991	0.991	98.726	98.7	NO
30	30 13C-2,3,4,6,7,8-HxCDF	1.06e6	1.23e6	0.50	NO	0.843	34.25	34.24	NO	1.011	1.011	102.73	103	NO

Dataset: U:\VG12.PRO\Results\201213R2\201213R2-1.qld

Last Altered: Monday, December 14, 2020 07:31:05 Pacific Standard Time

Printed: Monday, December 14, 2020 07:31:43 Pacific Standard Time

Name: 201213R2_1, Date: 13-Dec-2020, Time: 10:15:18, ID: ST201213R2_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

	# Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
31	31 13C-1,2,3,7,8,9-HxCDF	9.62e5	1.23e6	0.51	NO	0.780	35.25	35.25	NO	1.040	1.040	100.67	101	NO
32	32 13C-1,2,3,4,6,7,8-HpCDF	7.74e5	1.23e6	0.43	NO	0.726	36.83	36.81	NO	1.087	1.086	86.979	87.0	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	6.31e5	1.23e6	0.43	NO	0.491	38.83	38.82	NO	1.146	1.145	104.87	105	NO
34	34 13C-OCDF	1.39e6	1.23e6	0.88	NO	0.565	41.41	41.40	NO	1.222	1.222	200.66	100	NO
35	35 37Cl-2,3,7,8-TCDD	1.98e5	1.46e6			1.22	26.39	26.41	NO	1.030	1.031	11.160	112	NO
36	36 13C-1,2,3,4-TCDD	1.46e6	1.46e6	0.79	NO	1.00	25.64	25.63	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	2.29e6	2.29e6	0.78	NO	1.00	24.13	24.13	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	1.23e6	1.23e6	0.51	NO	1.00	33.92	33.89	NO	1.000	1.000	100.00	100	YES <i>ok</i>

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Monday, December 14, 2020 07:30:16 Pacific Standard Time

Printed: Monday, December 14, 2020 07:30:30 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32

Calibration: U:\VG12.PRO\CurveDB\ldbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

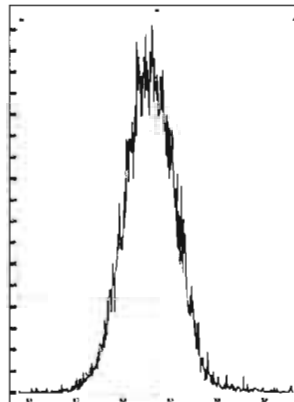
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	201213R2_1	ST201213R2_1 1613 CS3 20L0301	13-Dec-20	10:15:18
2	201213R2_2	B0L0034-BS1 OPR 10	13-Dec-20	11:01:37
3	201213R2_3	SOLVENT BLANK	13-Dec-20	11:45:51
4	201213R2_4	B0L0034-BLK1 Method Blank 10	13-Dec-20	12:30:07
5	201213R2_5	B0L0016-DUP1 Duplicate 11.62	13-Dec-20	13:14:22
6	201213R2_6	2002434-05 USMPDI-023SC-A-01-02-201107 ...	13-Dec-20	13:58:39
7	201213R2_7	2002434-06 USMPDI-023SC-A-02-03-201107 ...	13-Dec-20	14:42:54
8	201213R2_8	2002434-07 USMPDI-023SC-A-03-04-201107 ...	13-Dec-20	15:27:08
9	201213R2_9	2002434-08 USMPDI-023SC-A-04-05-201107 ...	13-Dec-20	16:11:26
10	201213R2_10	2002434-09 USMPDI-1023SC-A-02-03-20110 ...	13-Dec-20	16:55:42
11	201213R2_11	2002434-10 USMPDI-056SC-A-01-02-201107 ...	13-Dec-20	17:39:57
12	201213R2_12	2002434-11 USMPDI-056SC-A-02-03-201107 ...	13-Dec-20	18:24:12
13	201213R2_13	2002434-12 USMPDI-056SC-A-03-04-201107 ...	13-Dec-20	19:08:25
14	201213R2_14	2002431-08@20X USMPDI-049SC-A-14-15-2...	13-Dec-20	19:52:41
15	201213R2_15	2002431-09@20X USMPDI-049SC-A-15-16-2...	13-Dec-20	20:36:55

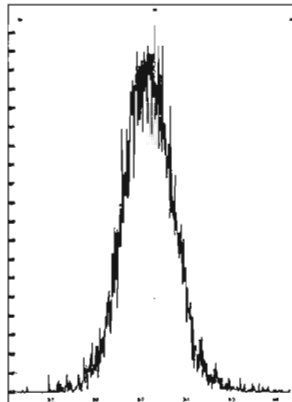
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Sunday, December 13, 2020 10:13:35 Pacific Standard Time

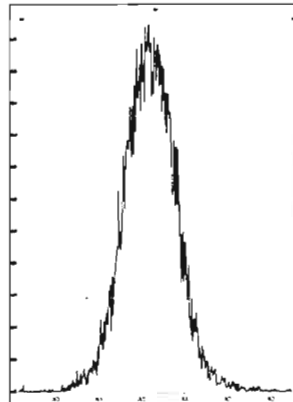
M 292.9824 R 11791



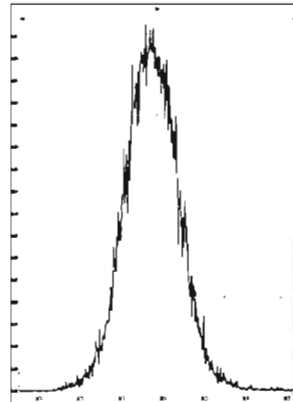
M 304.9824 R 11678



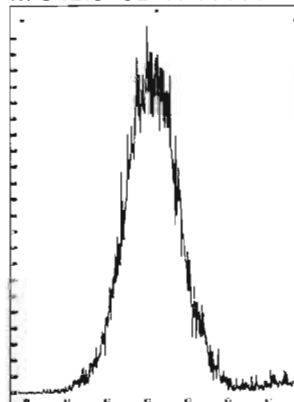
M 318.9792 R 12376



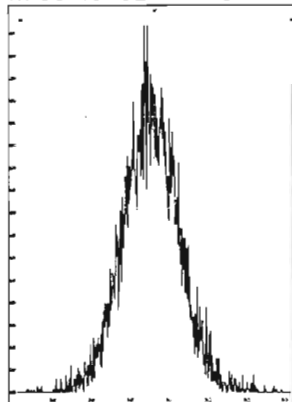
M 330.9792 R 11309



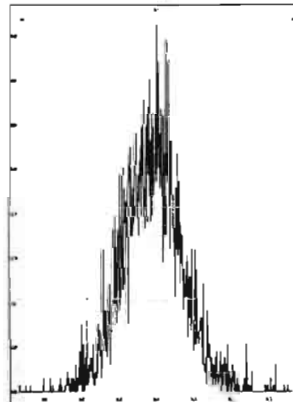
M 342.9792 R 11111



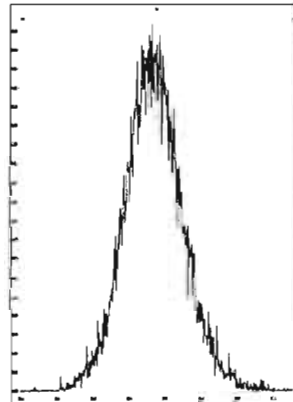
M 354.9792 R 11577



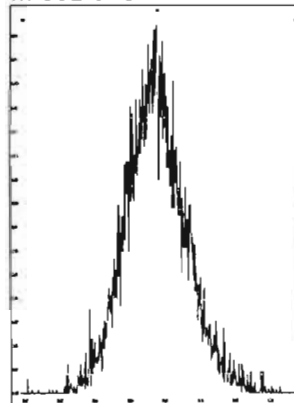
M 366.9792 R 11161



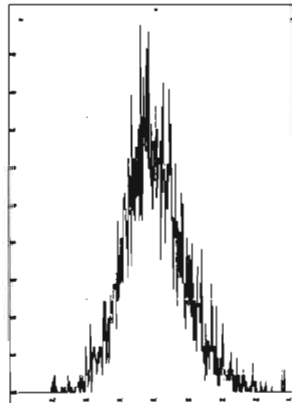
M 380.9760 R 11012



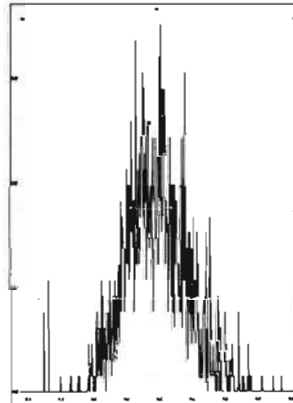
M 392.9760 R 10501



M 404.9760 R 12198



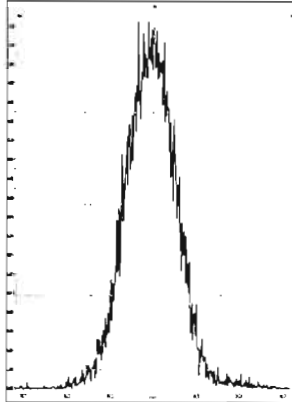
M 416.9760 R 11465



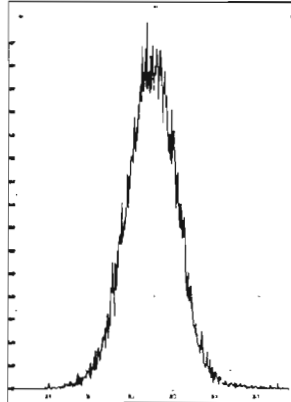
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Sunday, December 13, 2020 10:14:02 Pacific Standard Time

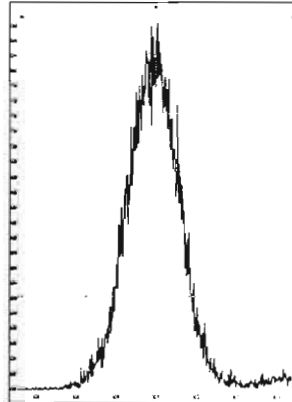
M 318.9792 R 13440



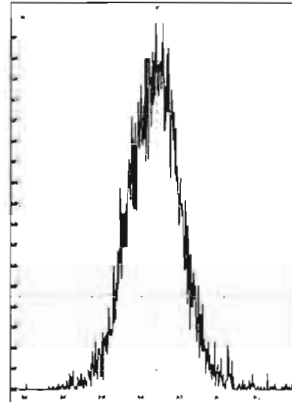
M 330.9792 R 11576



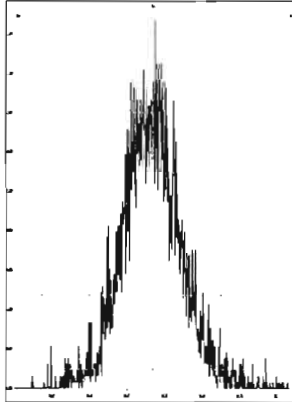
M 342.9792 R 11467



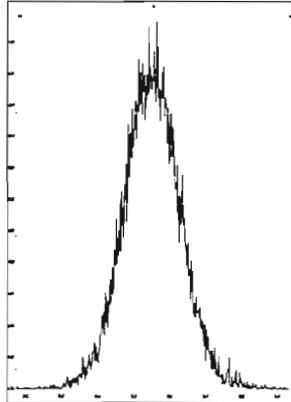
M 354.9792 R 13438



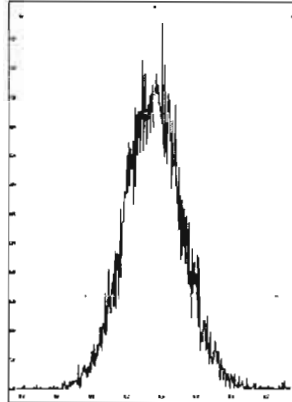
M 366.9792 R 11521



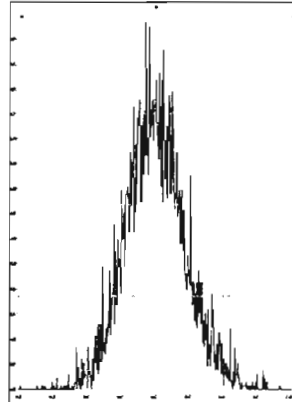
M 380.9760 R 10641



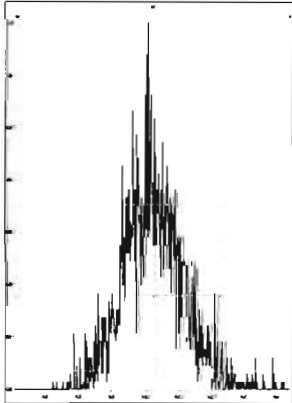
M 392.9760 R 10461



M 404.9760 R 10592



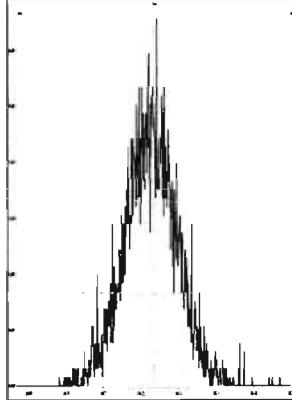
M 416.9760 R 15152



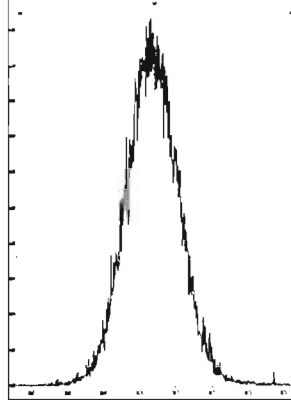
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Printed: Sunday, December 13, 2020 10:14:19 Pacific Standard Time

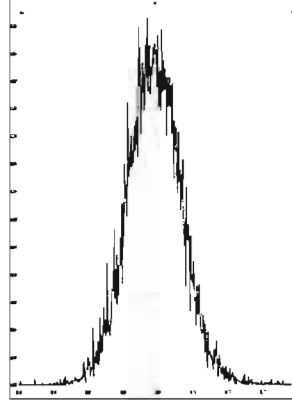
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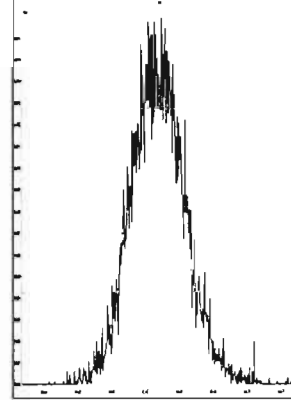
M 380.9760 R 11415



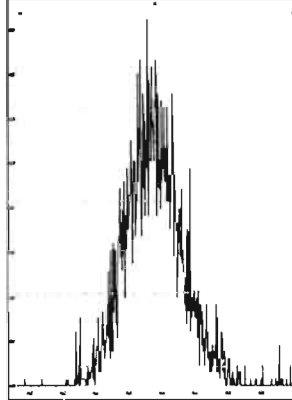
M 392.9760 R 11109



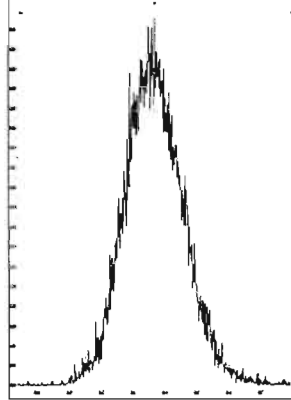
M 404.9760 R 11628



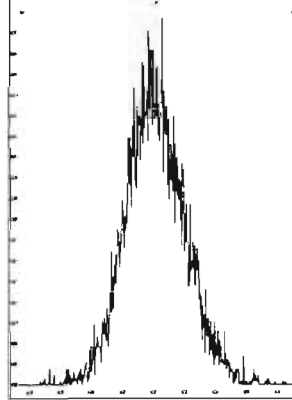
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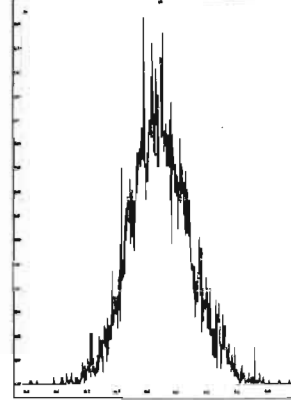
M 430.9728 R 10417



M 442.9728 R 10245



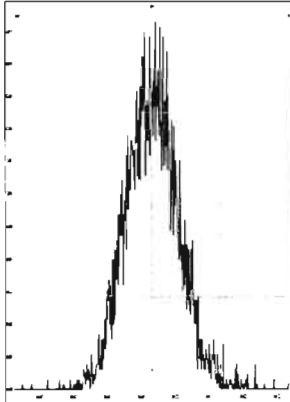
M 454.9728 R 10730



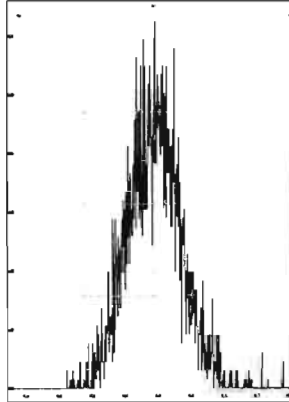
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Printed: Sunday, December 13, 2020 10:14:38 Pacific Standard Time

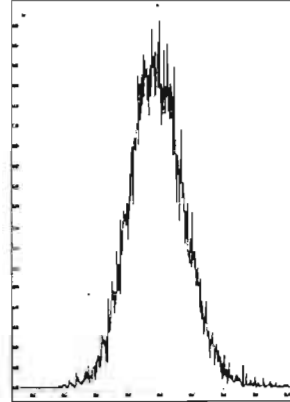
M 404.9760 R 11905



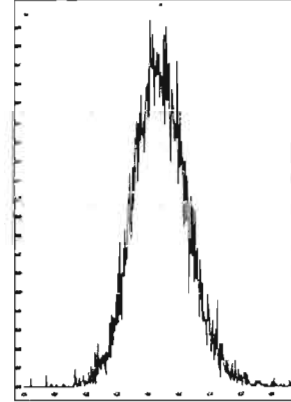
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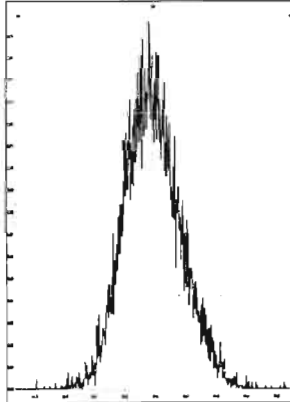
M 430.9728 R 10867



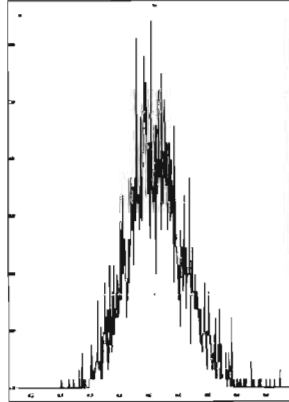
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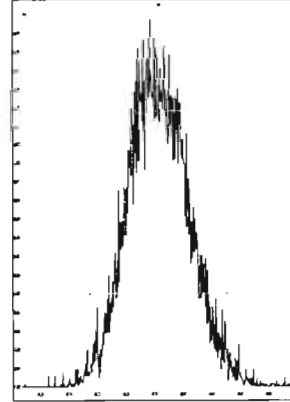
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M 466.9728 R 11363



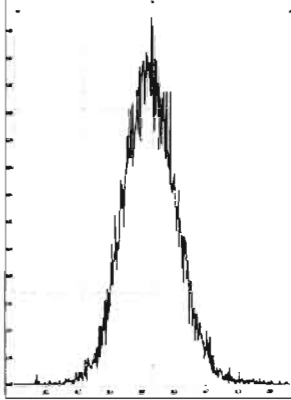
M 480.9696 R 10640



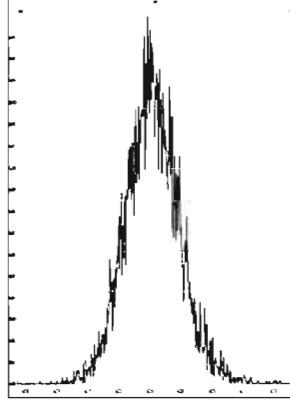
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Printed: Sunday, December 13, 2020 10:14:54 Pacific Standard Time

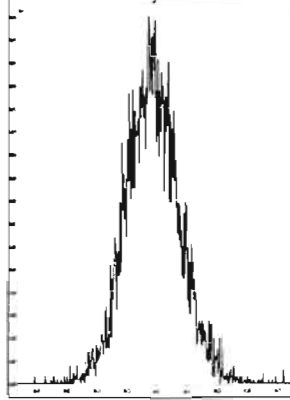
M 430.9728 R 11111



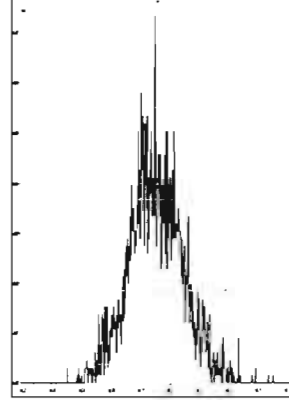
M 442.9728 R 11790



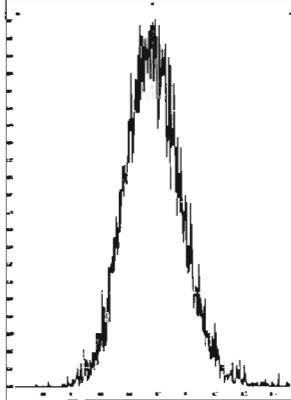
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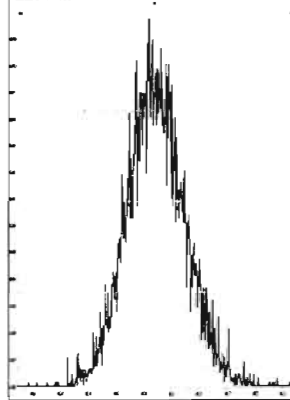
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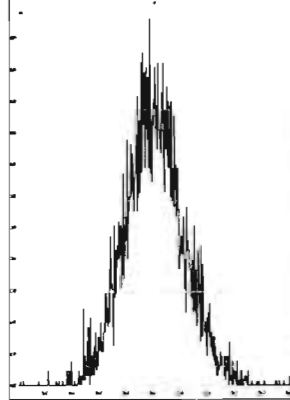
M 480.9696 R 11014



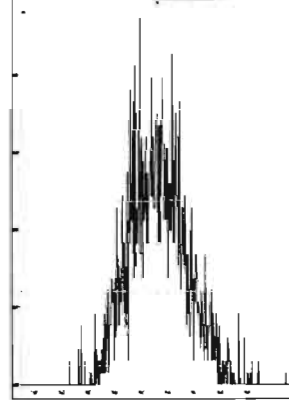
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M 504.9696 R 11212



M 516.9697 R 11682



Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Monday, December 14, 2020 07:21:16 Pacific Standard Time

Printed: Monday, December 14, 2020 07:22:48 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 11 Dec 2020 14:14:32

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201213R2_1, Date: 13-Dec-2020, Time: 10:15:18, ID: ST201213R2_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

	# Name	RT
1	1 1,3,6,8-TCDD (First)	22.61
2	2 1,2,8,9-TCDD (Last)	27.28
3	3 1,2,4,7,9-PeCDD (First)	28.82
4	4 1,2,3,8,9-PeCDD (Last)	31.42
5	5 1,2,4,6,7,9-HxCDD (First)	32.72
6	6 1,2,3,7,8,9-HxCDD (Last)	34.76
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.21
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.21
9	9 1,3,6,8-TCDF (First)	20.35
10	10 1,2,8,9-TCDF (Last)	27.59
11	11 1,3,4,6,8-PeCDF (First)	27.16
12	12 1,2,3,8,9-PeCDF (Last)	31.79
13	13 1,2,3,4,6,8-HxCDF (First)	32.20
14	14 1,2,3,7,8,9-HxCDF (Last)	35.26
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.83
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.83

Dataset: Untitled

Last Altered: Monday, December 14, 2020 07:21:16 Pacific Standard Time
Printed: Monday, December 14, 2020 07:22:48 Pacific Standard Time

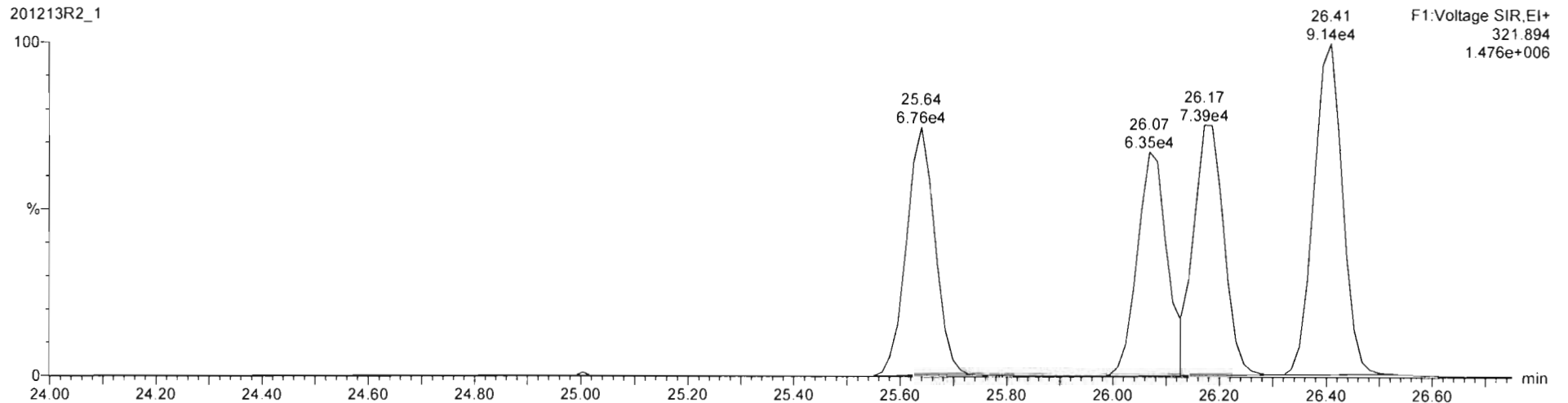
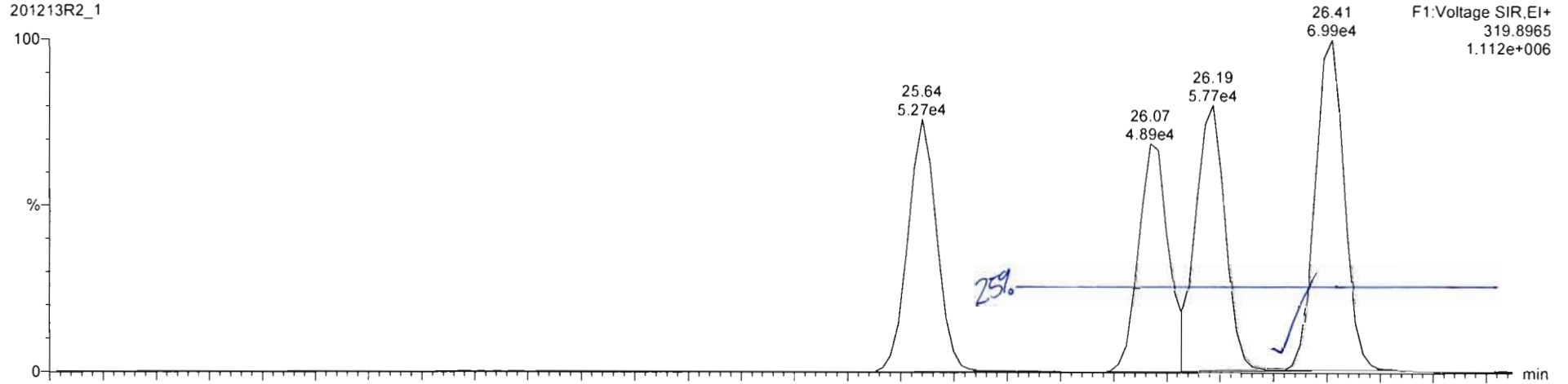
GRB 12/14/2020

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Calibration: U:\VG12.PRO\CurveDB\IbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

HZ 12-15-2020

Name: 201213R2_1, Date: 13-Dec-2020, Time: 10:15:18, ID: ST201213R2_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

1,3,6,8-TCDD (First)
201213R2_1



Dataset: Untitled

Last Altered: Monday, December 14, 2020 07:21:16 Pacific Standard Time
Printed: Monday, December 14, 2020 07:22:48 Pacific Standard Time

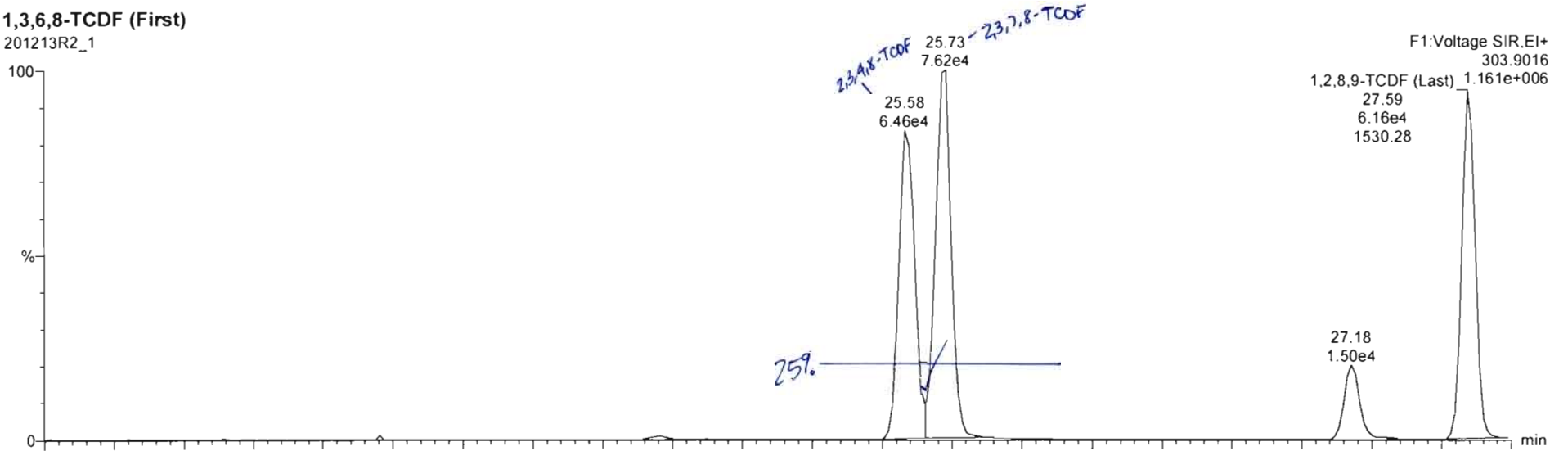
GRB 12/14/2020

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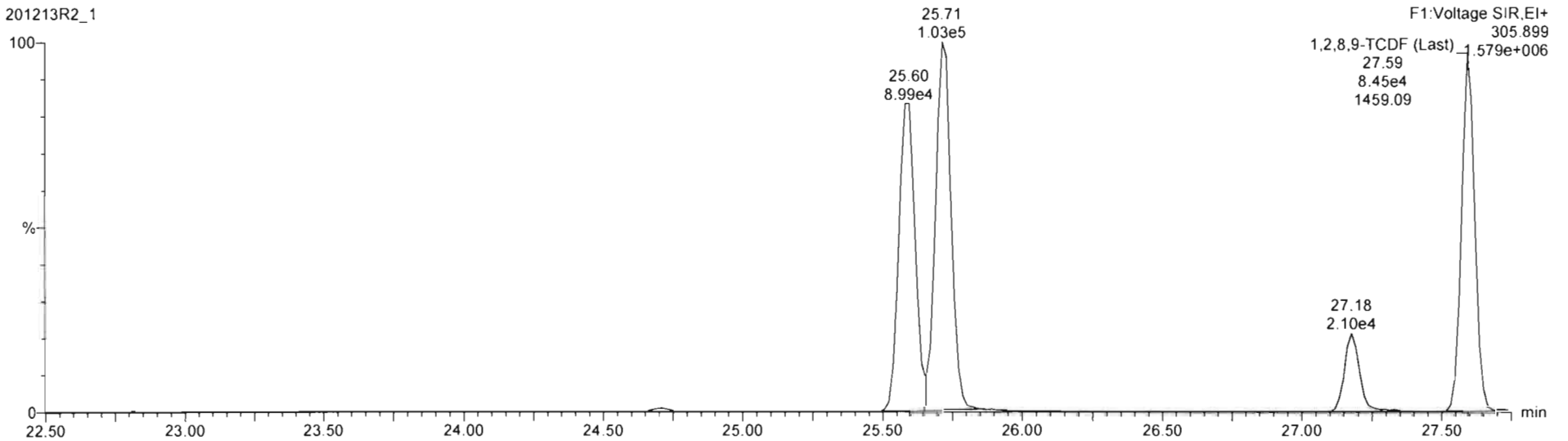
12-15-2020

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

201213R2_1



201213R2_1



Dataset: Untitled

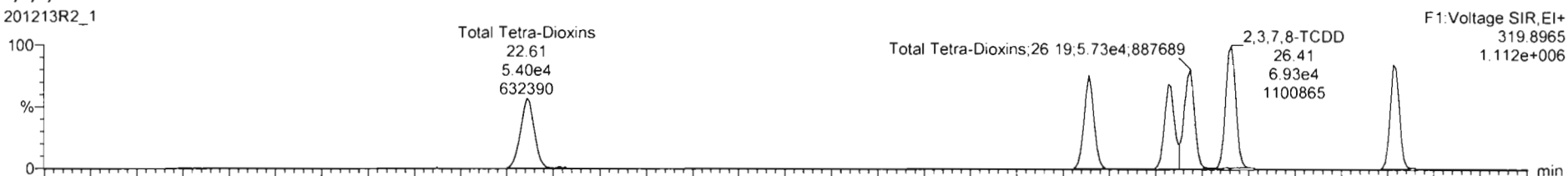
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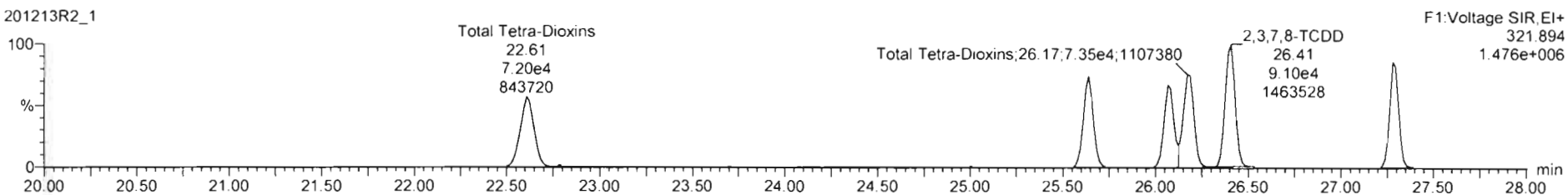
Name: 201213R2_1, Date: 13-Dec-2020, Time: 10:15:18, ID: ST201213R2_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

2,3,7,8-TCDD

201213R2_1

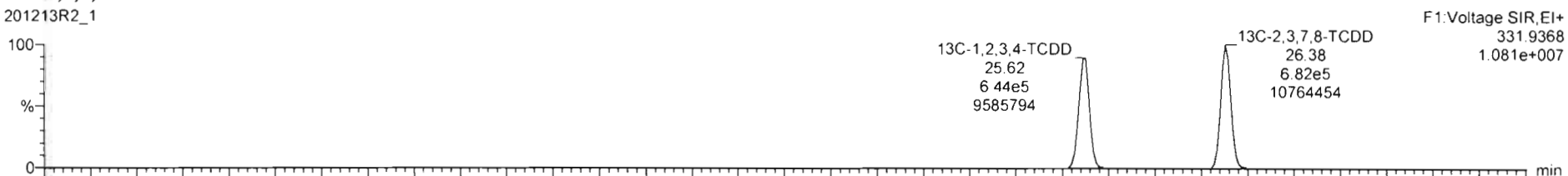


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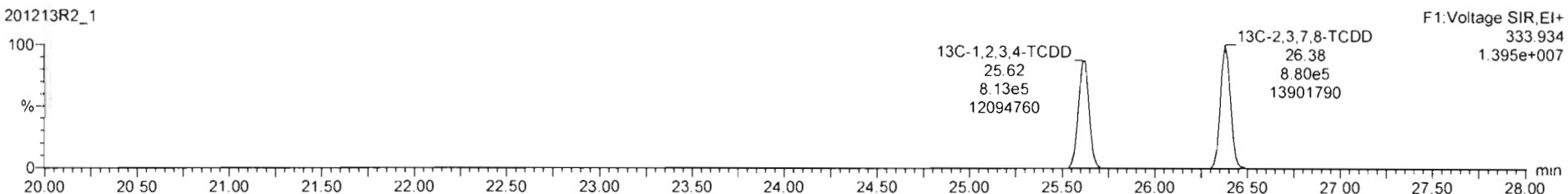


13C-2,3,7,8-TCDD

201213R2_1



201213R2_1



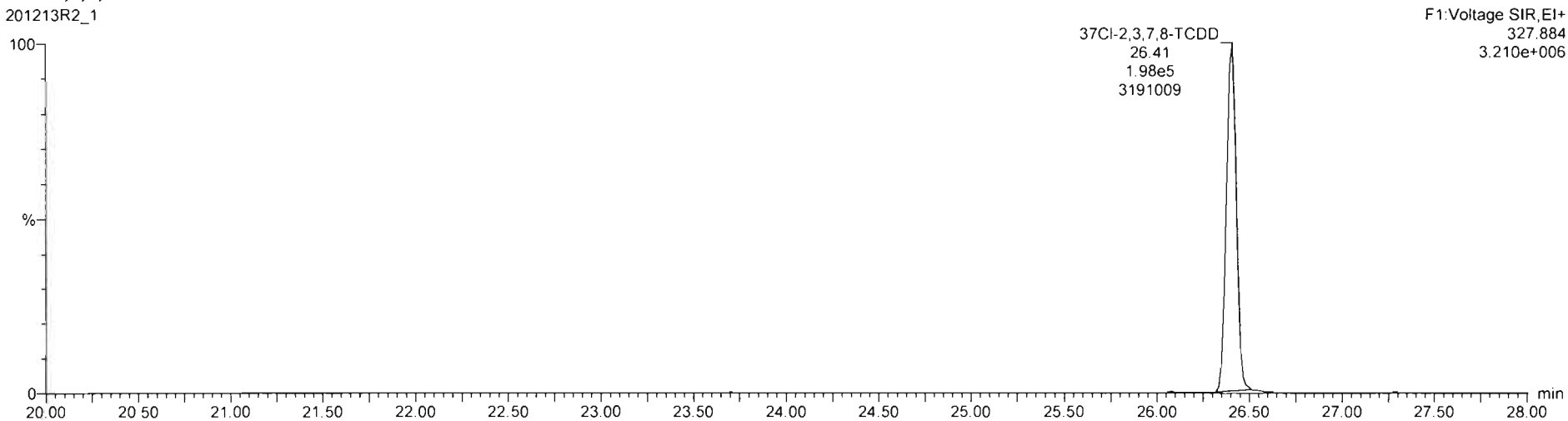
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Printed: Monday, December 14, 2020 07:23:14 Pacific Standard Time

Name: 201213R2_1, Date: 13-Dec-2020, Time: 10:15:18, ID: ST201213R2_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

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

201213R2_1

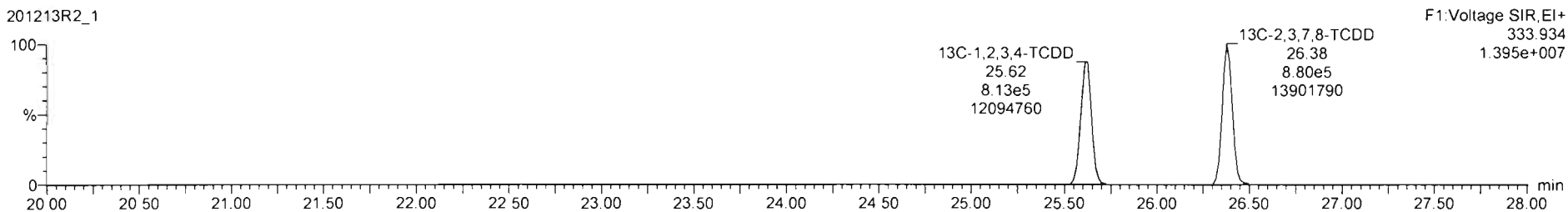


13C-1,2,3,4-TCDD

201213R2_1



201213R2_1



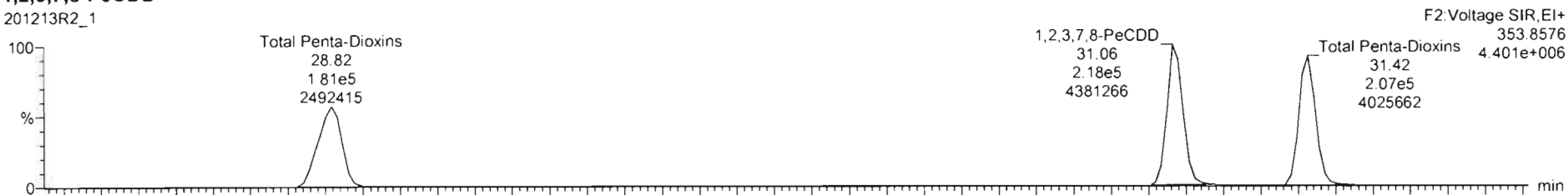
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Printed: Monday, December 14, 2020 07:23:14 Pacific Standard Time

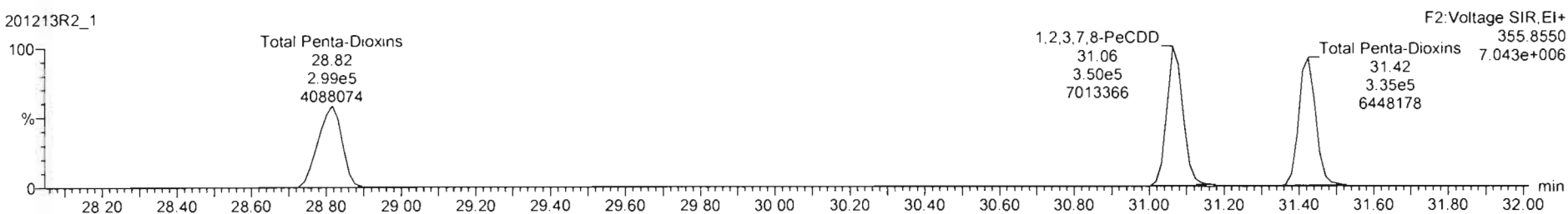
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1,2,3,7,8-PeCDD

201213R2_1

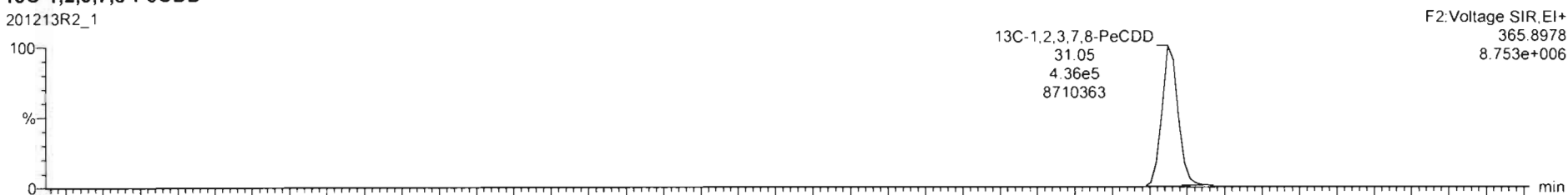


201213R2_1

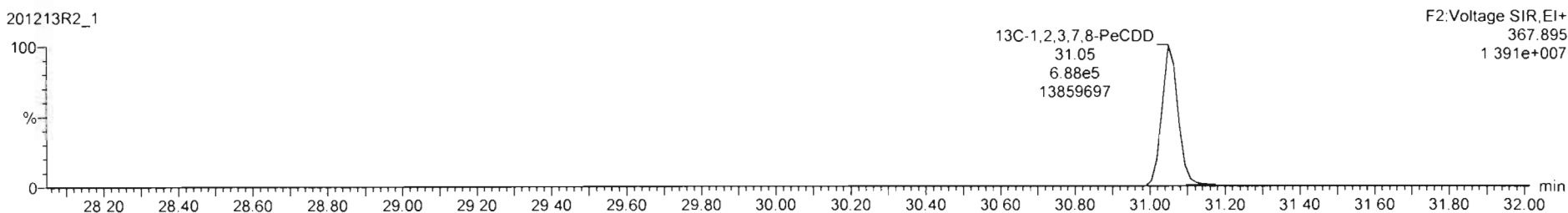


13C-1,2,3,7,8-PeCDD

201213R2_1



201213R2_1



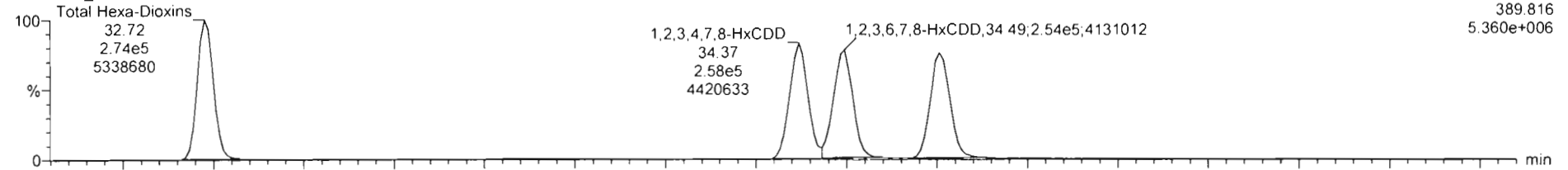
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Printed: Monday, December 14, 2020 07:23:14 Pacific Standard Time

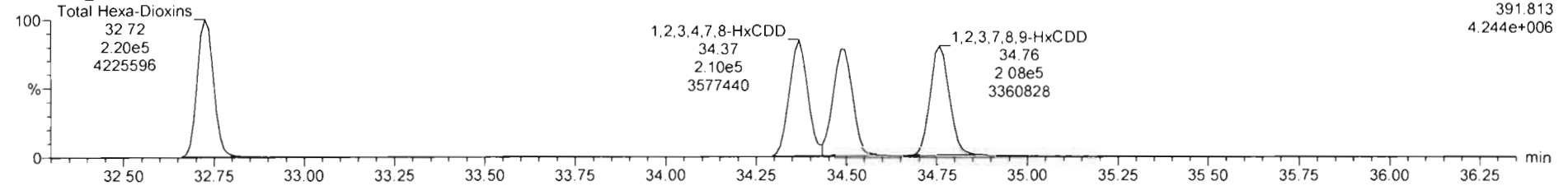
Name: 201213R2_1, Date: 13-Dec-2020, Time: 10:15:18, ID: ST201213R2_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

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

201213R2_1

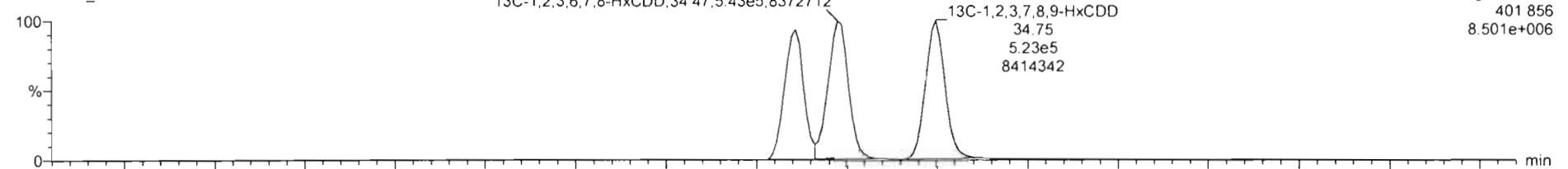


201213R2_1

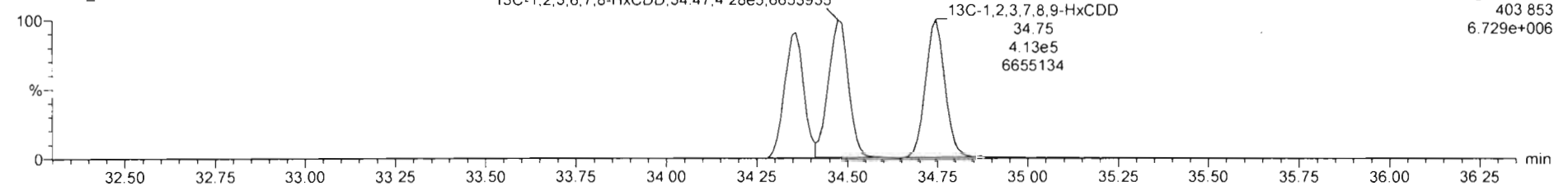


13C-1,2,3,4,7,8-HxCDD

201213R2_1



201213R2_1



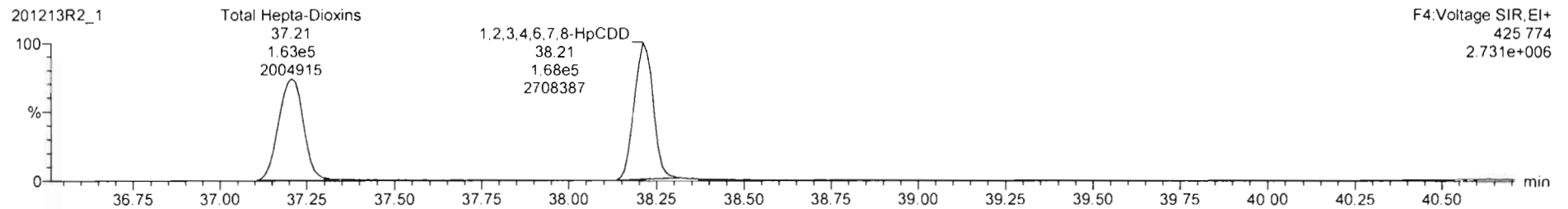
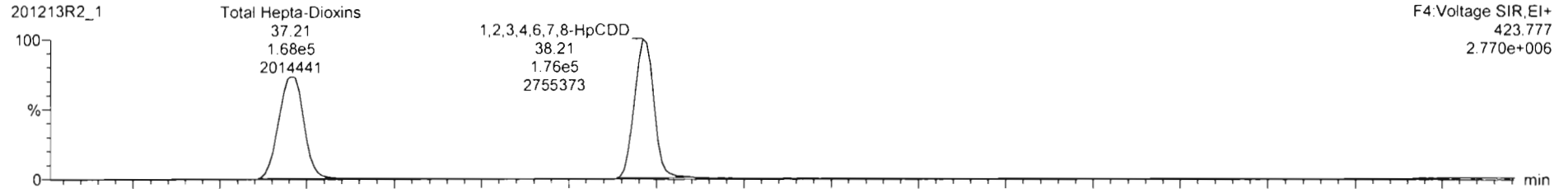
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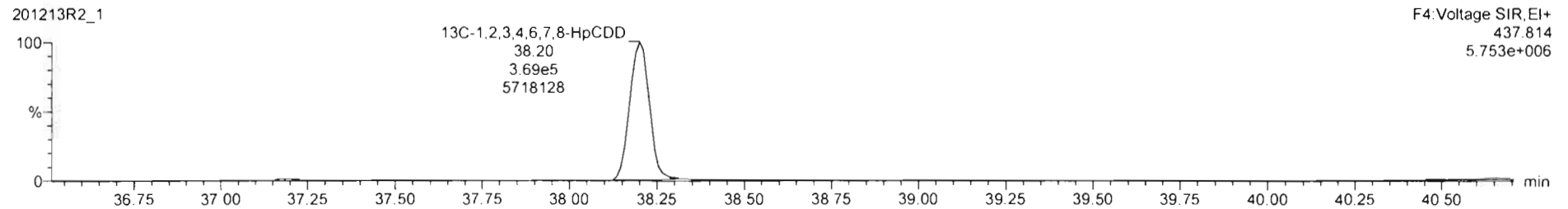
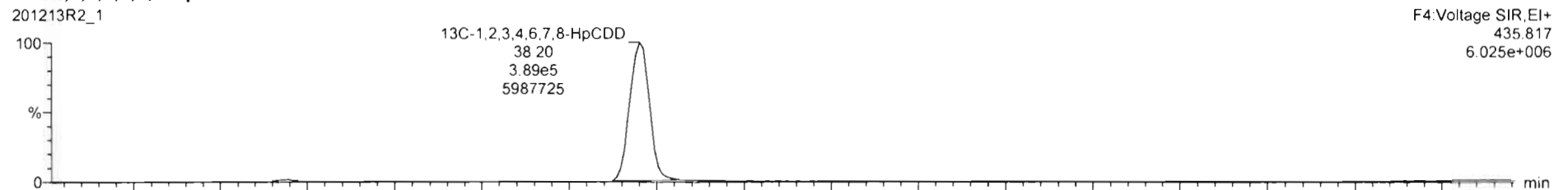
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1,2,3,4,6,7,8-HpCDD



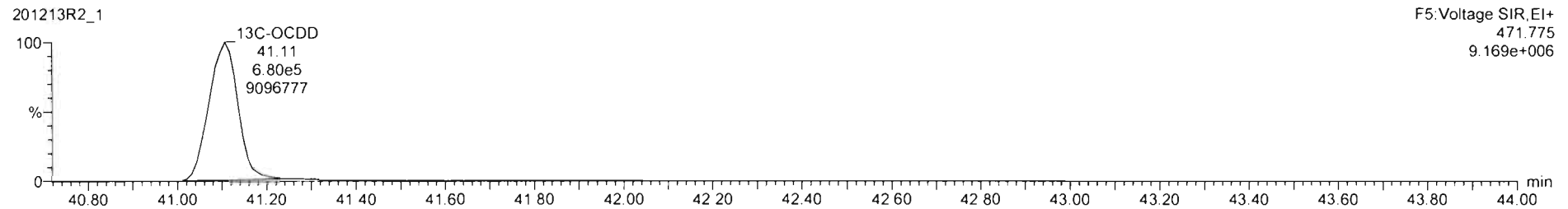
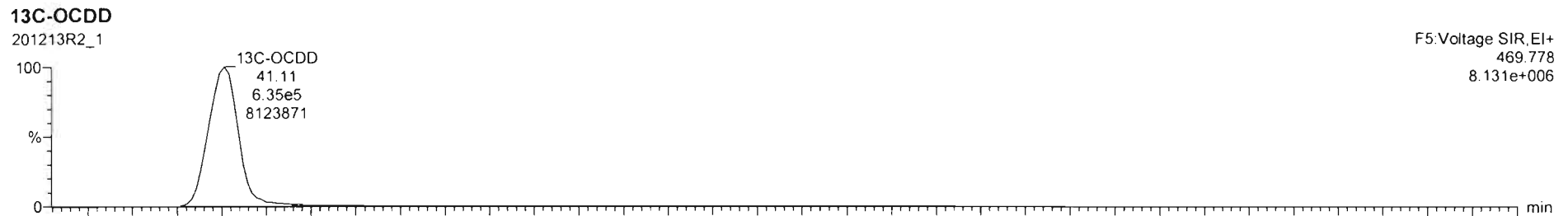
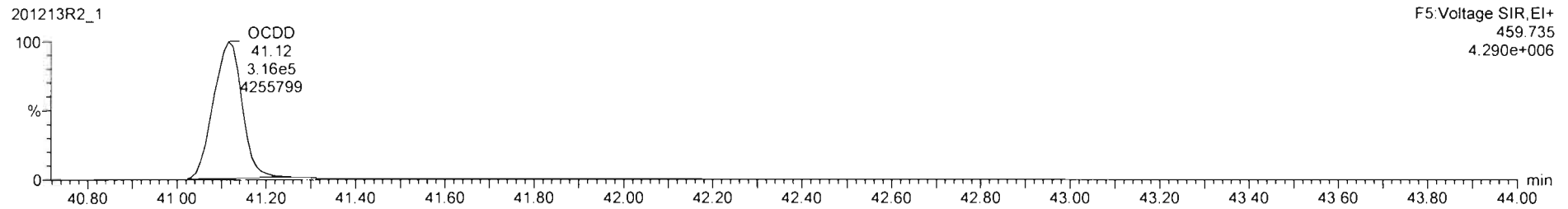
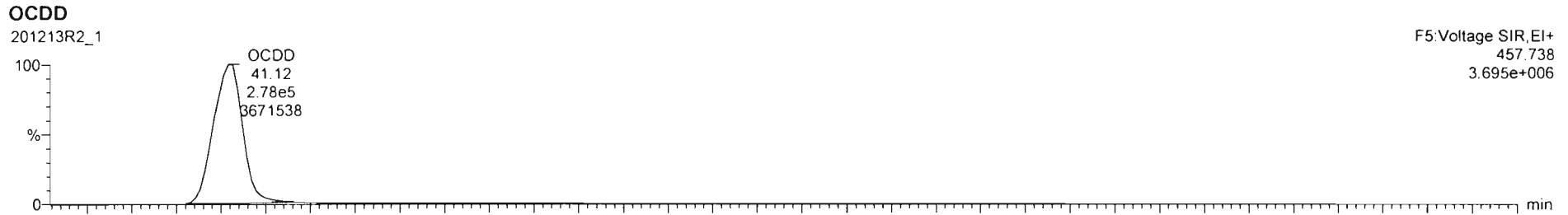
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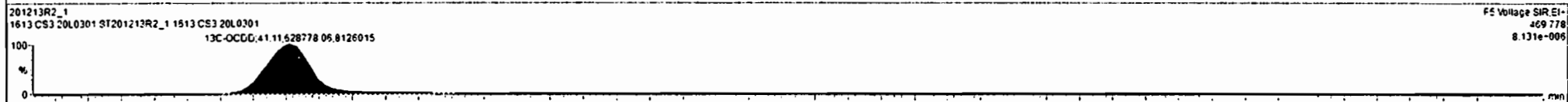
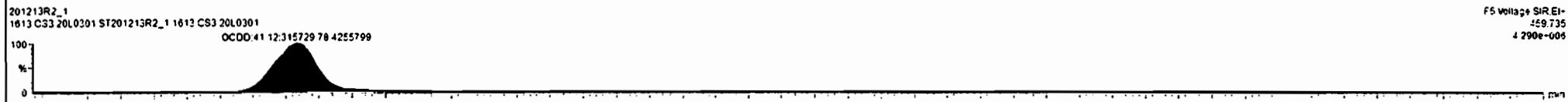
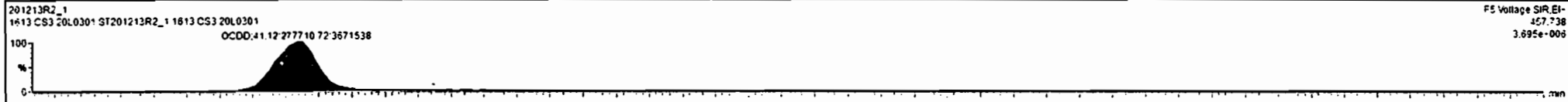
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Name: 201213R2_1, Date: 13-Dec-2020, Time: 10:15:18, ID: ST201213R2_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301



#	Name	Resp	S Resp	Pred RA	RA	dy	RF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1 2.3.7.8-OCDD	1.52e5	1.52e5	0.77	0.75	NO	0.9505	28.41	28.41	NO	1.001	1.001	100	100	NO
2	1 1.2.3.7.8-PeCDD	5.66e5	1.12e6	0.63	0.62	NO	0.9220	31.08	31.06	NO	1.001	1.000	54.2	108	NO
3	1 1.2.3.7.8-MeCDD	4.67e5	8.51e5	1.24	1.23	NO	1.0203	34.36	34.27	NO	1.001	1.000	52.8	108	NO
4	1 1.2.3.7.8-MeCDD	4.58e5	9.70e5	1.24	1.24	NO	0.9025	34.49	34.49	NO	1.001	1.001	52.3	105	NO
5	1 1.2.3.7.8-MeCDD	4.52e5	9.38e5	1.24	1.22	NO	0.9542	34.76	34.76	NO	1.000	1.000	51.7	103	NO
6	1 1.2.3.4.6.7.8-mpCDD	3.44e5	7.58e5	1.04	1.05	NO	0.9180	38.21	38.21	NO	1.009	1.000	49.5	96.9	NO
7	7 OCDD	5.93e5	1.31e6	0.89	0.88	NO	0.8858	41.11	41.12	NO	1.008	1.000	105	105	NO
8	6 1.2.3.7.8-TCDF	1.78e5	2.21e6	0.77	0.73	NO	0.6480	25.70	25.73	NO	1.009	1.001	9.50	95.0	NO
9	9 1.2.3.7.8-PeCDF	8.47e5	1.73e6	1.55	1.58	NO	0.9597	29.20	29.21	NO	1.003	1.001	51.9	104	NO
10	10 1.2.3.7.8-PeCDF	8.70e5	1.58e6	1.55	1.55	NO	1.0571	30.85	30.87	NO	1.001	1.000	51.8	103	NO
11	11 1.2.3.7.8-MeCDF	5.41e5	1.10e6	1.24	1.21	NO	0.9855	33.46	33.46	NO	1.003	1.003	45.7	99.5	NO
12	12 1.2.3.7.8-MeCDF	5.88e5	1.12e6	1.24	1.20	NO	1.0388	33.50	33.53	NO	1.001	1.000	45.4	96.8	NO
13	13 1.2.3.4.7.8-MeCDF	5.35e5	1.06e6	1.24	1.23	NO	1.0202	34.28	34.28	NO	1.001	1.001	45.4	98.8	NO
14	14 1.2.3.7.8-MeCDF	4.73e5	9.62e5	1.24	1.22	NO	0.9963	35.28	35.28	NO	1.000	1.000	49.6	99.1	NO
15	15 1.2.3.4.6.7.8-MeCDF	3.99e5	7.74e5	1.04	1.00	NO	1.0462	36.83	36.83	NO	1.009	1.001	48.2	98.3	NO
16	16 1.2.3.4.7.8-MeCDF	3.86e5	6.31e5	1.04	0.99	NO	1.1755	38.83	38.83	NO	1.009	1.000	49.3	98.7	NO
17	17 OCDF	6.29e5	1.39e6	0.89	0.87	NO	1.0960	41.41	41.41	NO	1.003	1.000	101	101	NO
18	18 13C-1.2.3.7.8-TCDD	1.52e6	1.48e6	0.77	0.75	NO	1.0555	28.40	28.28	NO	1.000	1.000	102	102	NO
19	19 13C-1.2.3.7.8-PeCDD	1.12e6	1.46e6	0.63	0.63	NO	0.7847	31.25	31.05	NO	1.219	1.212	96.3	98.3	NO
20	20 13C-1.2.3.7.8-MeCDD	8.51e5	1.23e6	1.24	1.29	NO	0.8205	34.35	34.36	NO	1.014	1.014	112	112	NO
21	21 13C-1.2.3.7.8-MeCDD	9.70e5	1.23e6	1.24	1.27	NO	0.7340	34.47	34.47	NO	1.017	1.017	108	108	NO



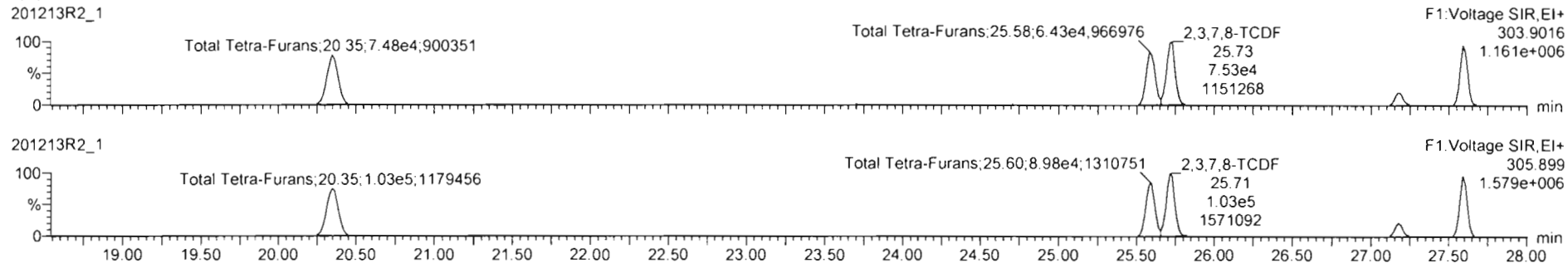
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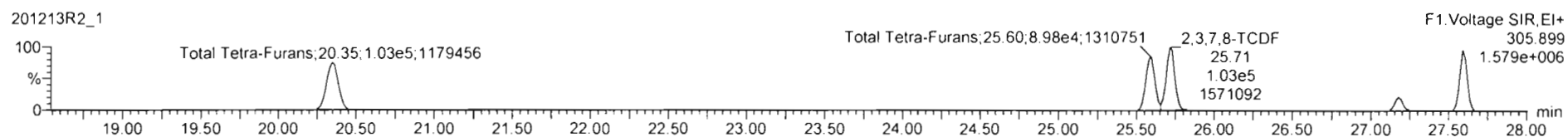
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2,3,7,8-TCDF

201213R2_1

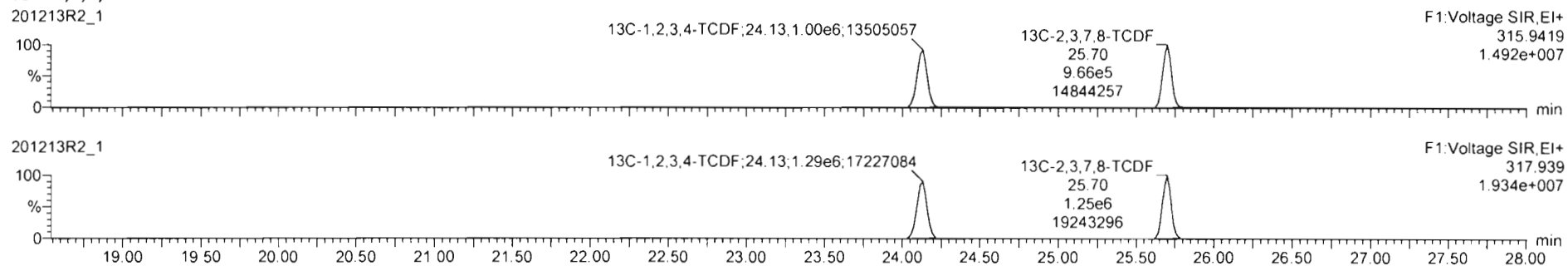


201213R2_1

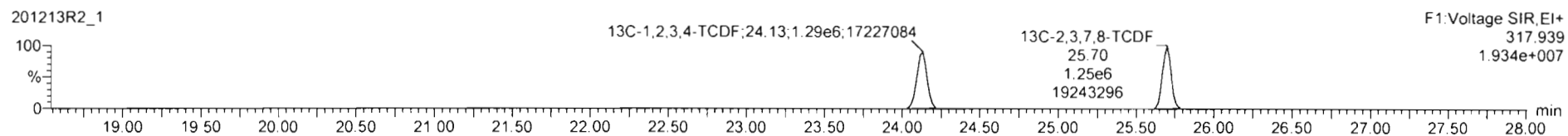


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201213R2_1

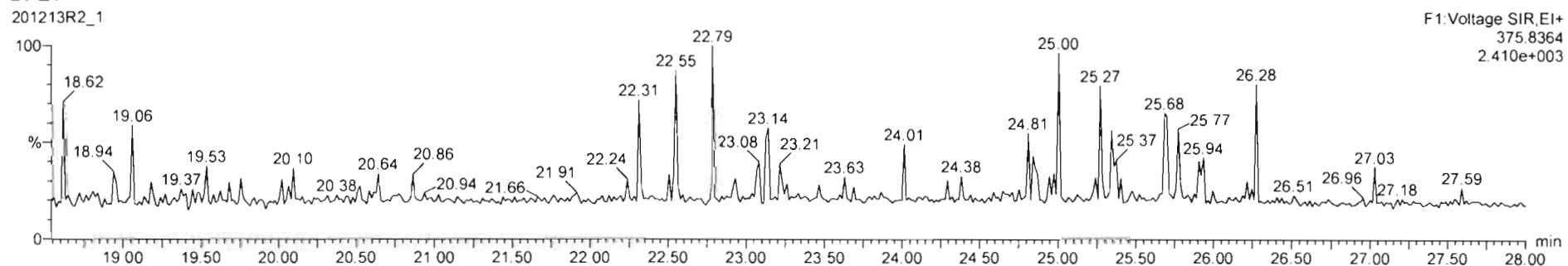


201213R2_1



DPE1

201213R2_1



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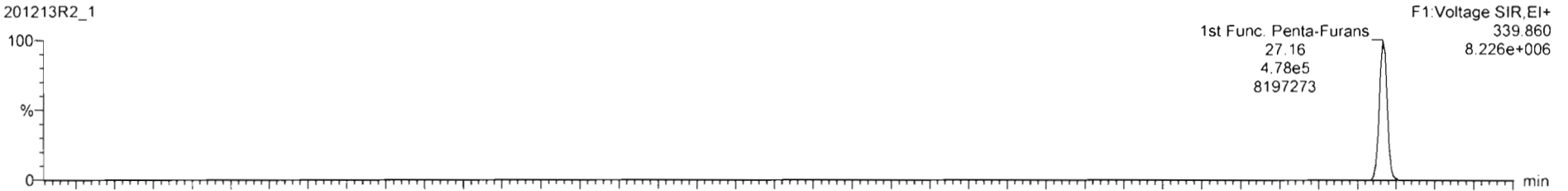
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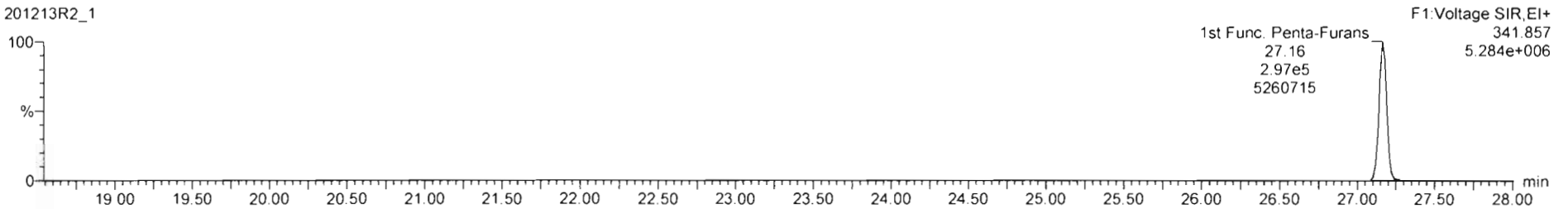
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201213R2_1

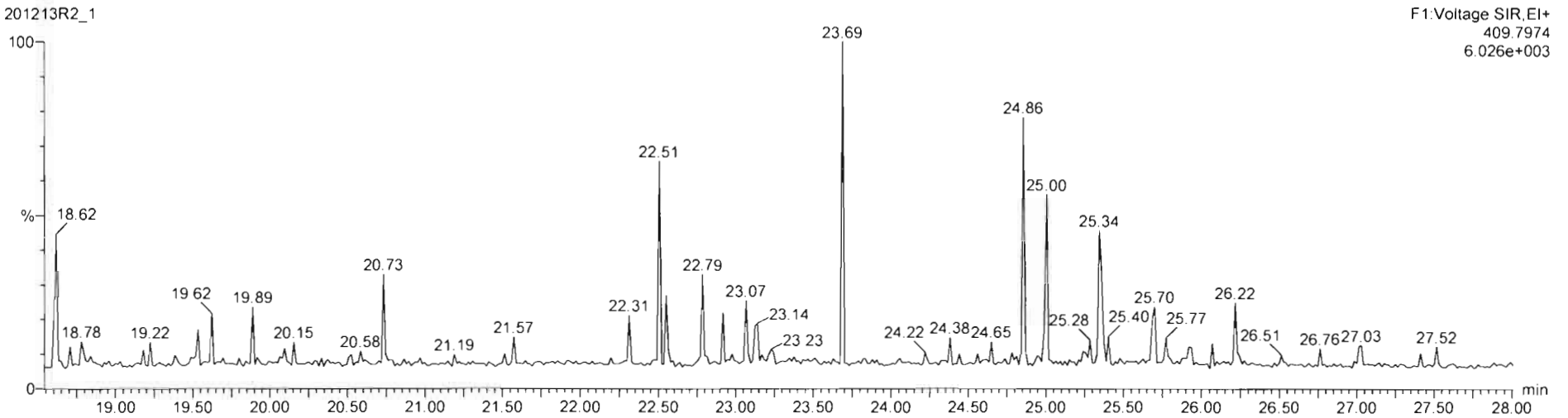


201213R2_1



DPE6

201213R2_1



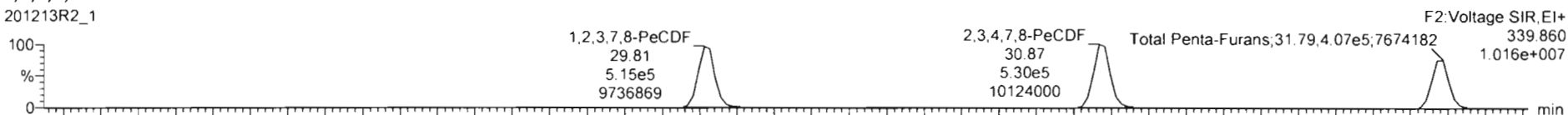
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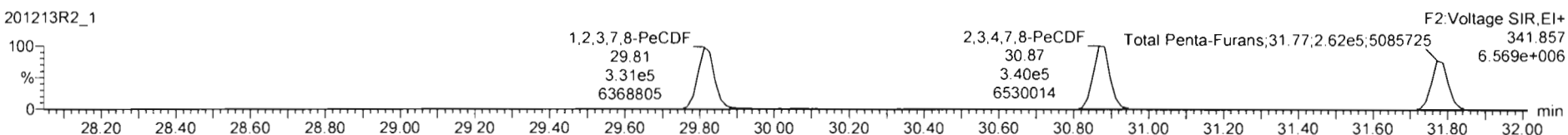
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1,2,3,7,8-PeCDF

201213R2_1

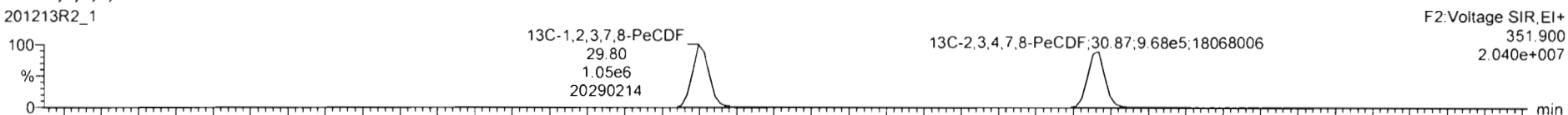


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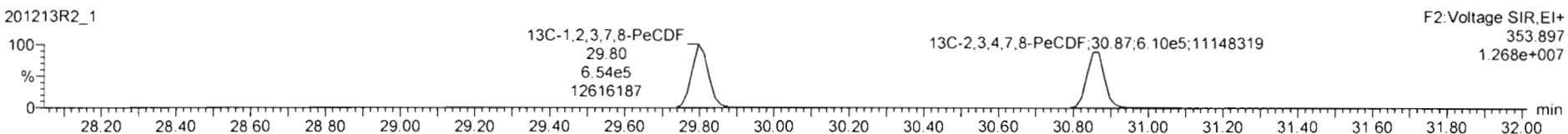


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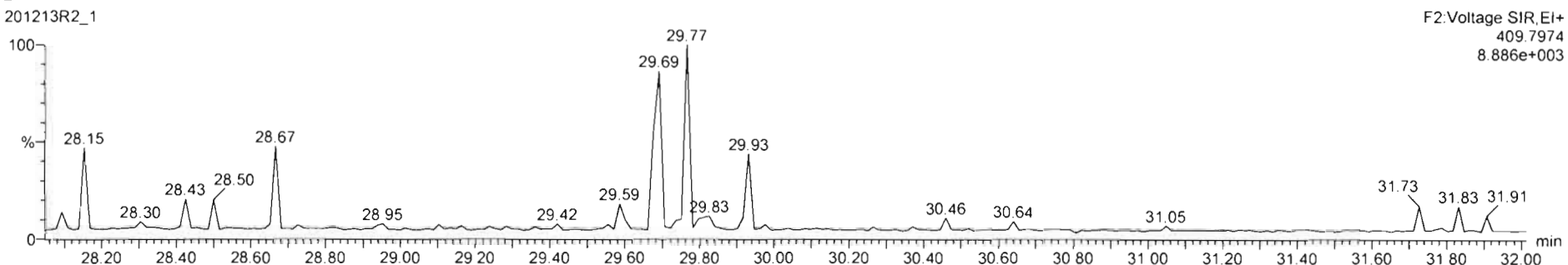


201213R2_1



DPE2

201213R2_1

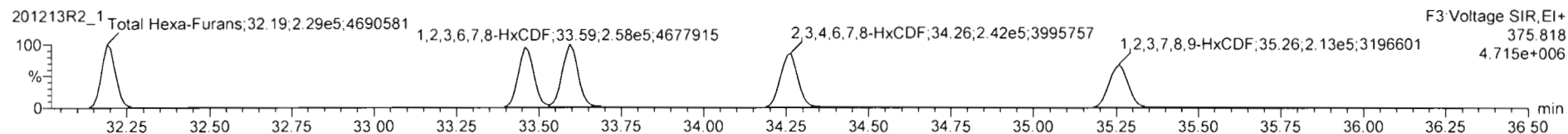
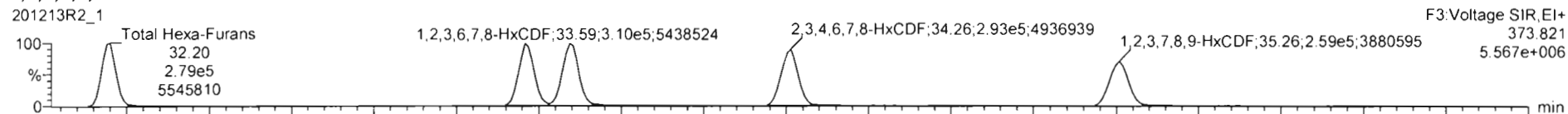


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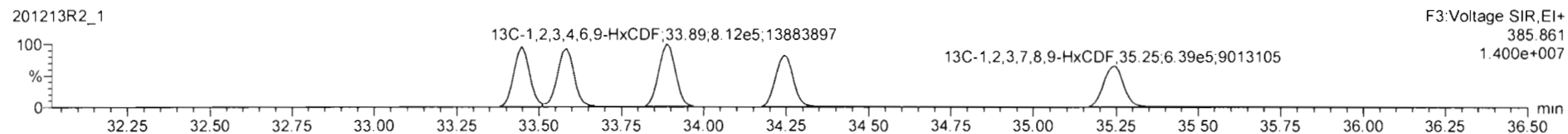
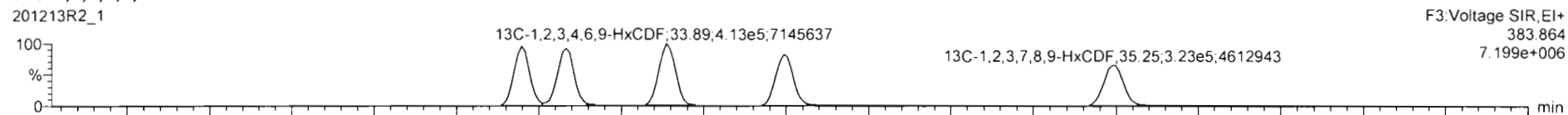
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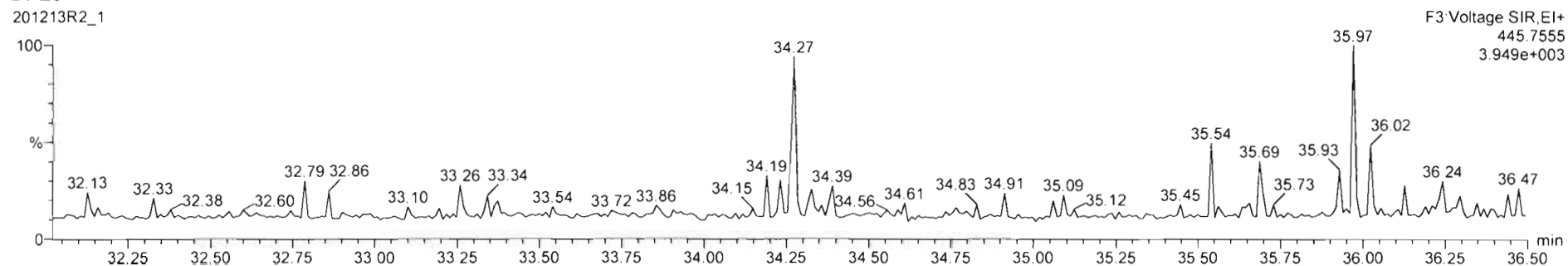
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13C-1,2,3,4,7,8-HxCDF



DPE3

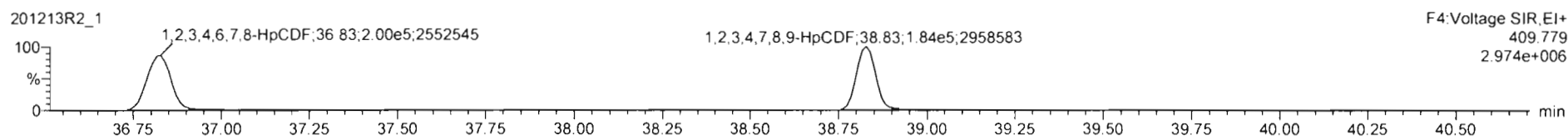
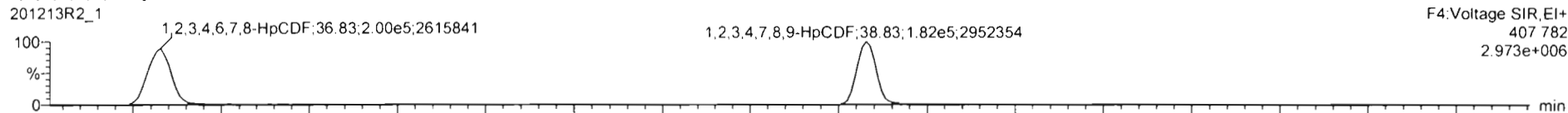


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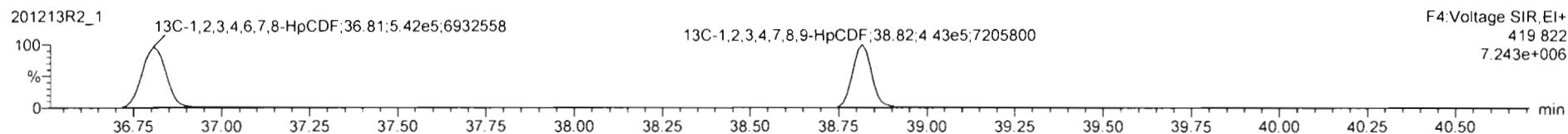
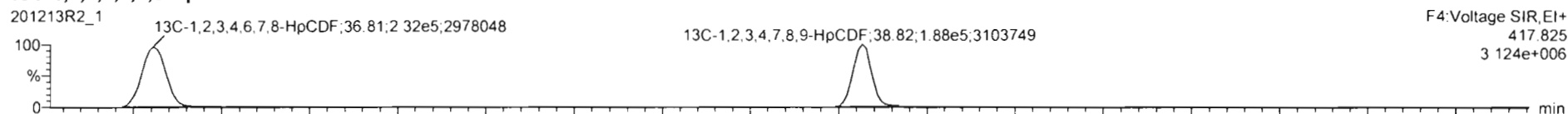
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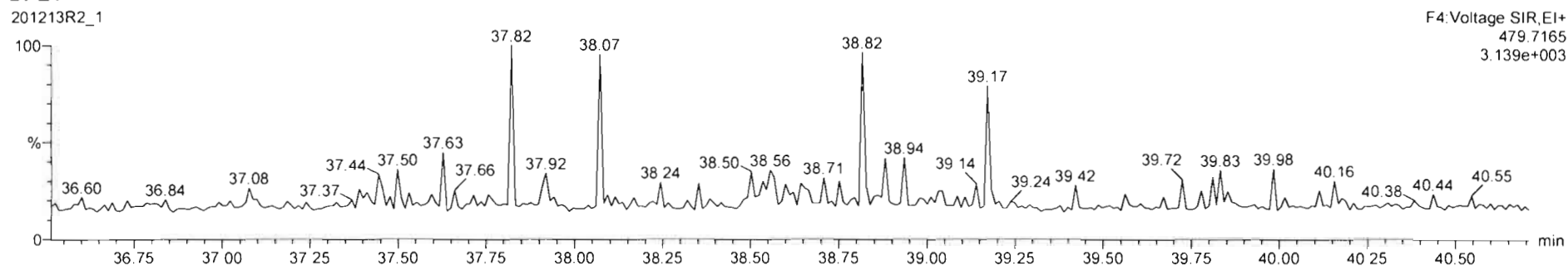
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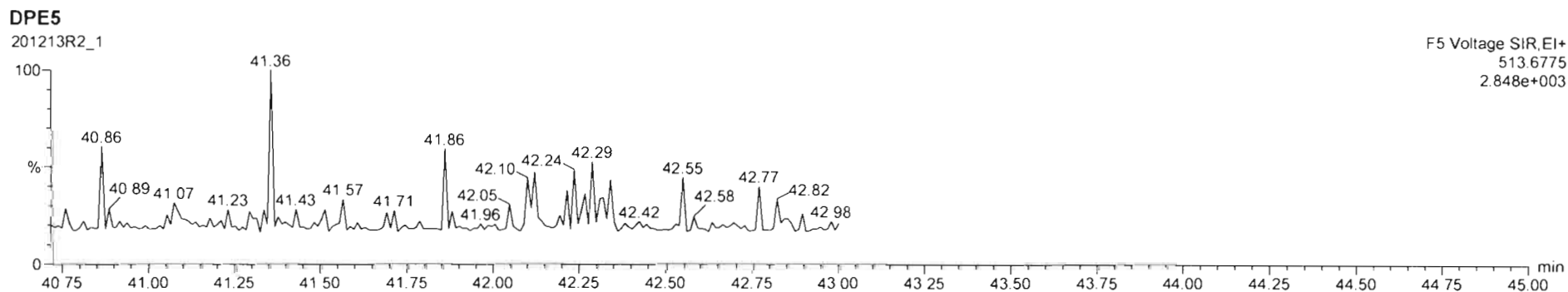
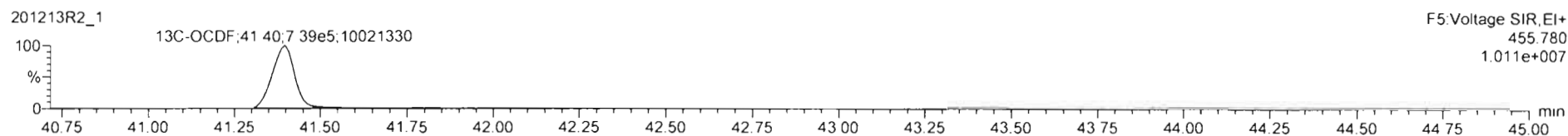
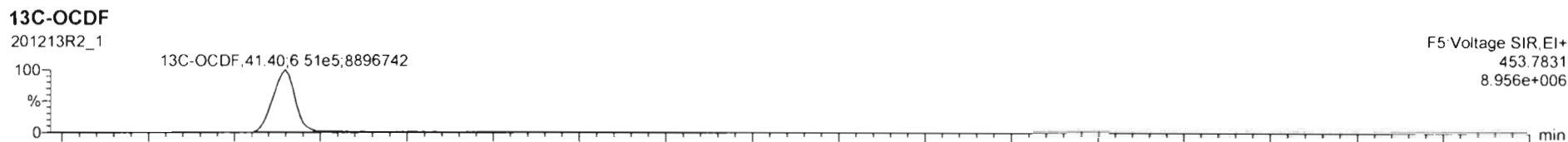
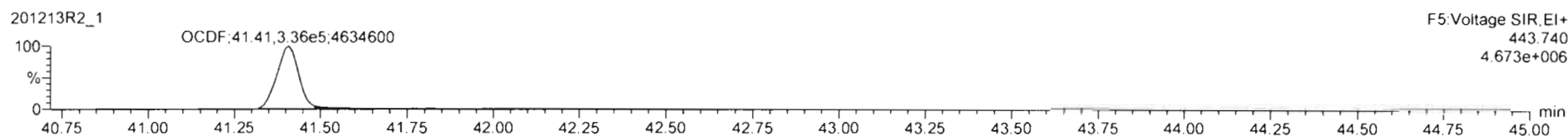
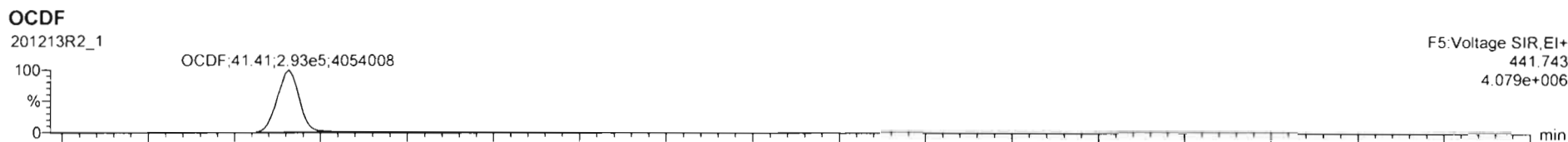
DPE4



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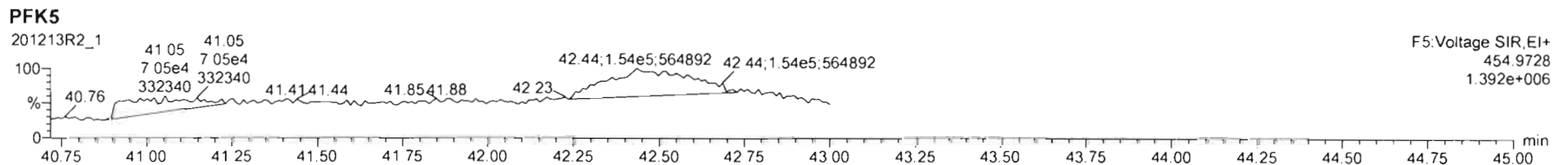
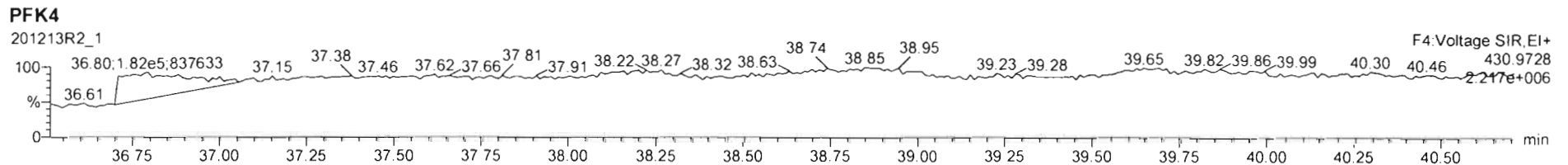
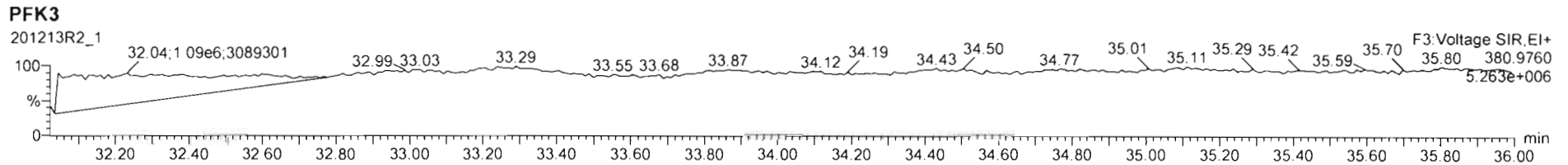
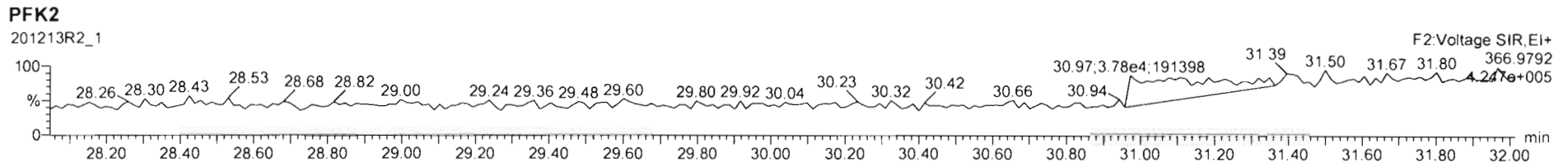
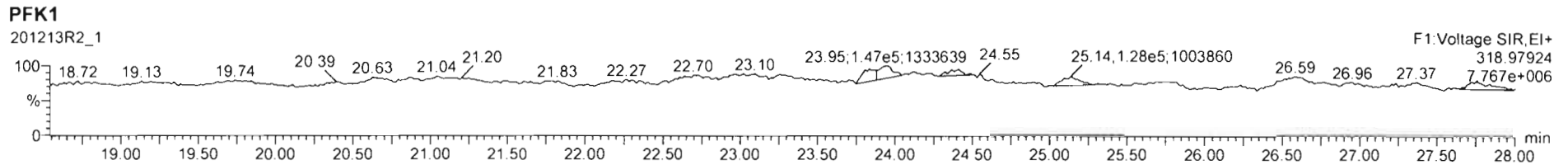
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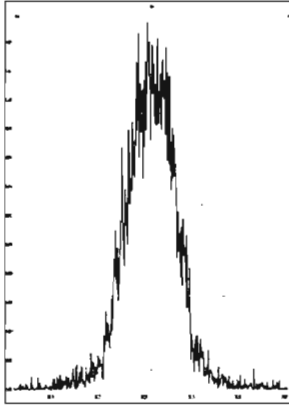
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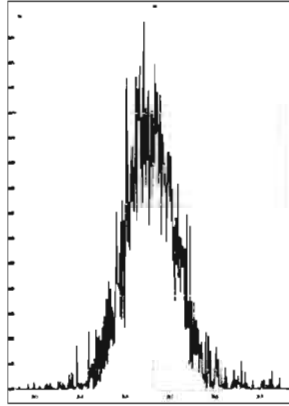


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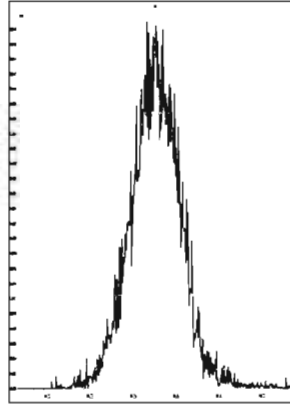
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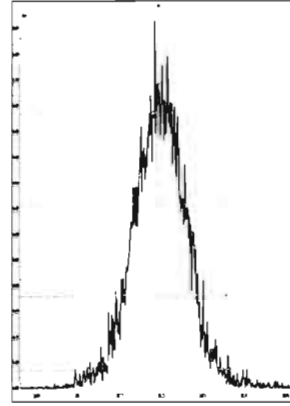
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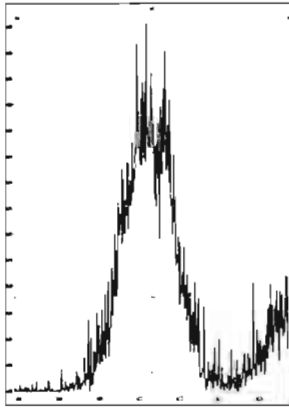
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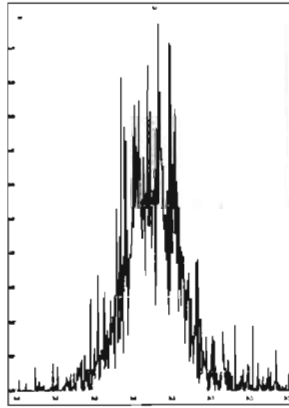
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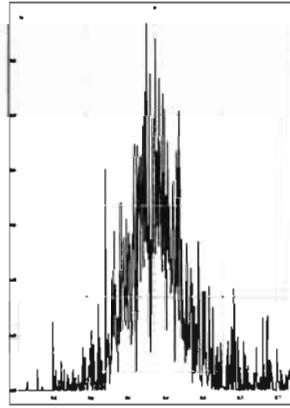
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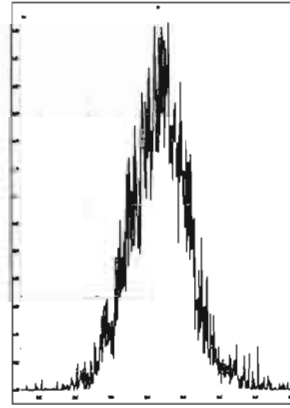
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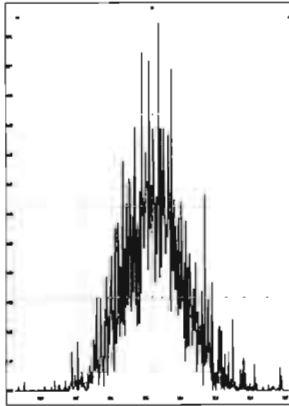
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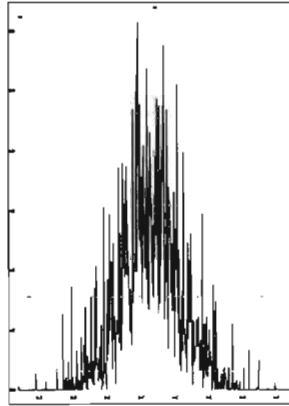
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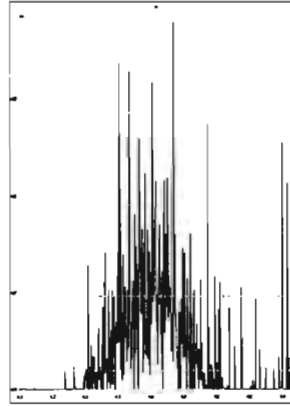
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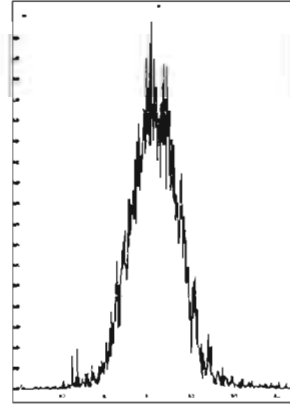
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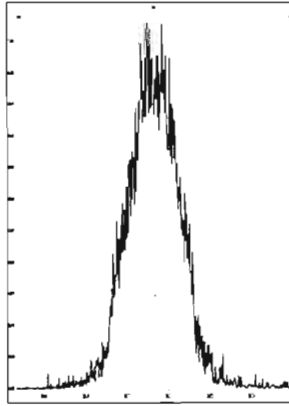
M 416.9760 R 42943



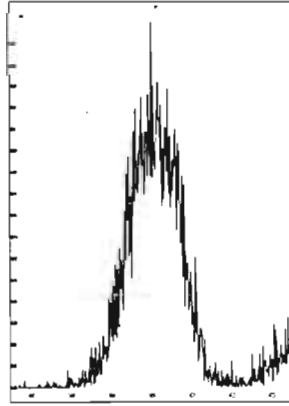
M 318.9792 R 13966



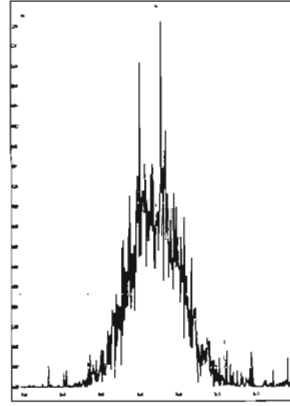
M 330.9792 R 12746



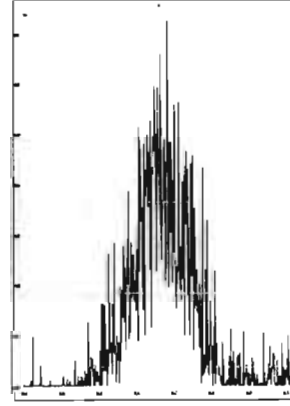
M 342.9792 R 12991



M 354.9792 R 14536

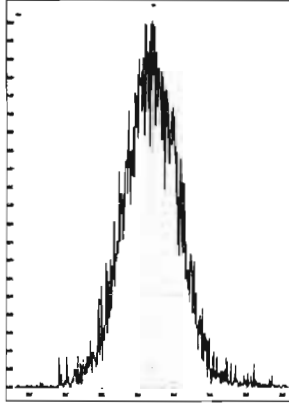


M 366.9792 R 16250

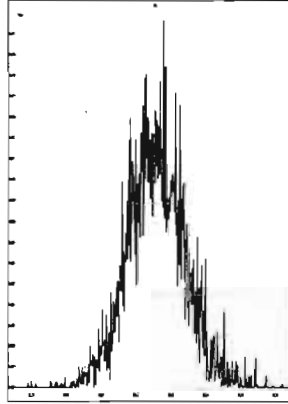


Printed: Sunday, December 13, 2020 21:30:04 Pacific Standard Time

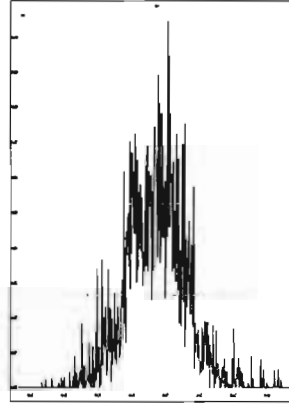
M 380.9760 R 11821



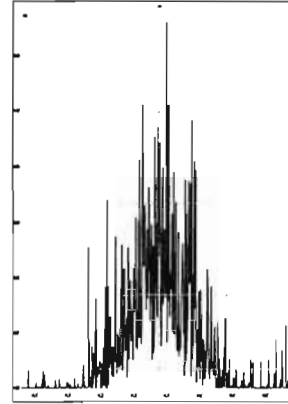
M 392.9760 R 13652



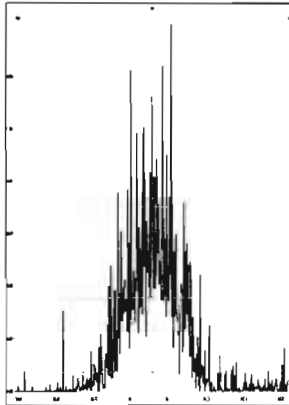
M 404.9760 R 13667



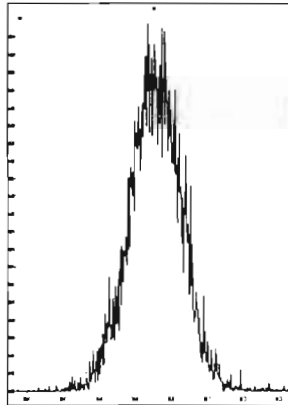
M 416.9760 R 15136



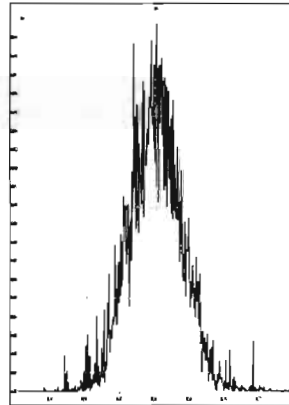
M 366.9792 R 15246



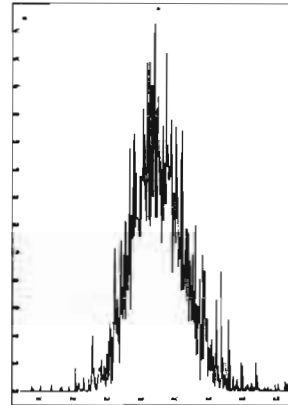
M 380.9760 R 12496



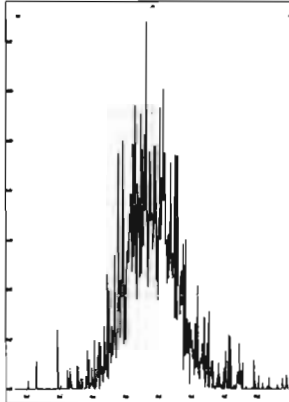
M 392.9760 R 12623



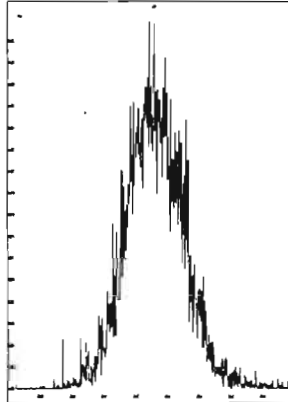
M 404.9760 R 14189



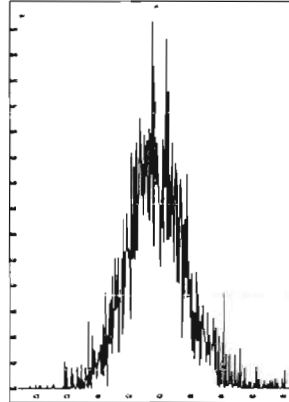
M 416.9760 R 16026



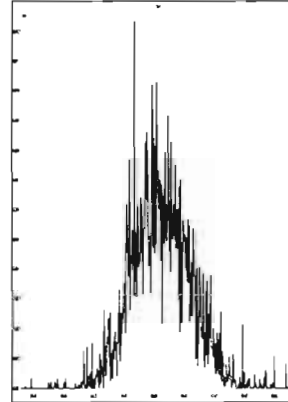
M 430.9728 R 12001



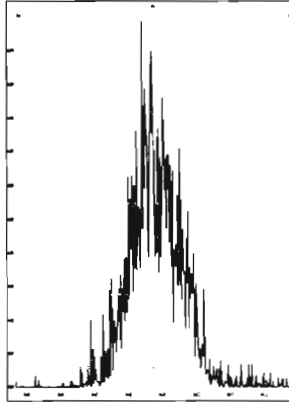
M 442.9728 R 13343



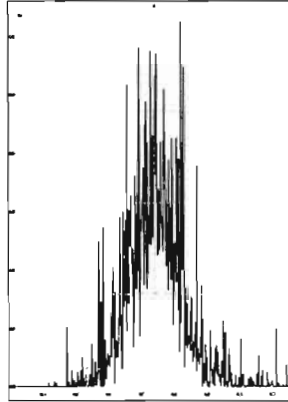
M 454.9728 R 13056



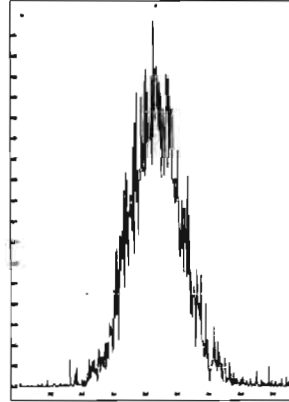
M 404.9760 R 12646



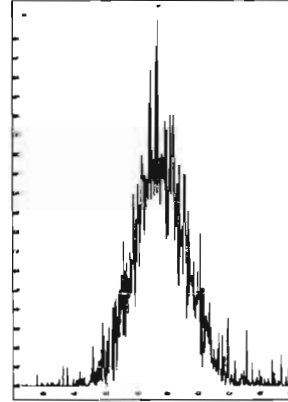
M 416.9760 R 14963



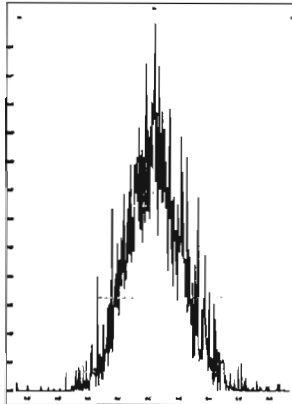
M 430.9728 R 12254



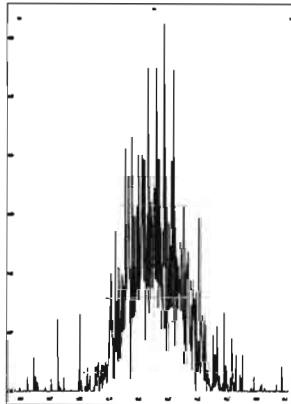
M 442.9728 R 13193



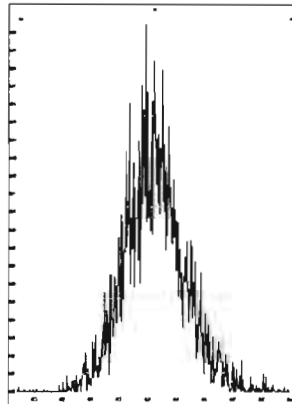
M 454.9728 R 13001



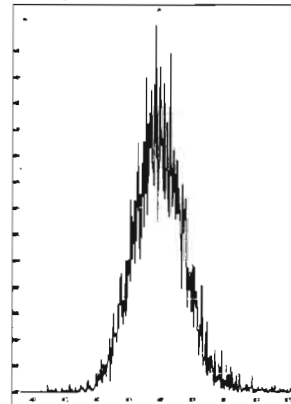
M 466.9728 R 15220



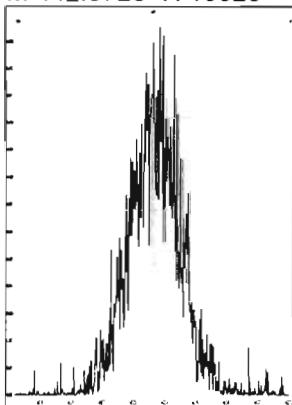
M 480.9696 R 10959



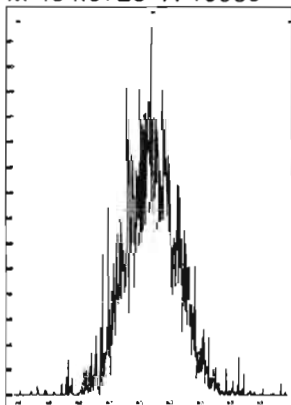
M 430.9728 R 13065



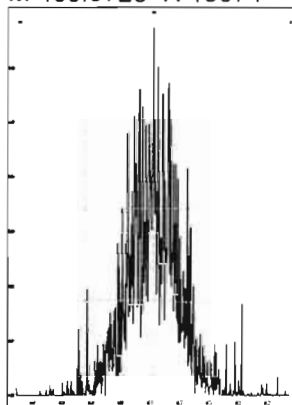
M 442.9728 R 13320



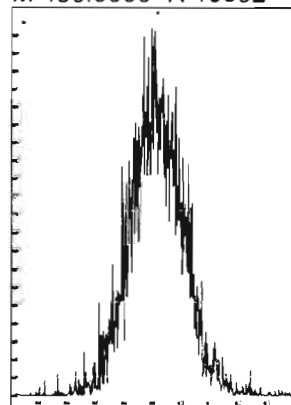
M 454.9728 R 13089



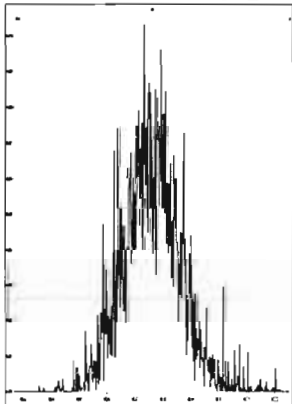
M 466.9728 R 15674



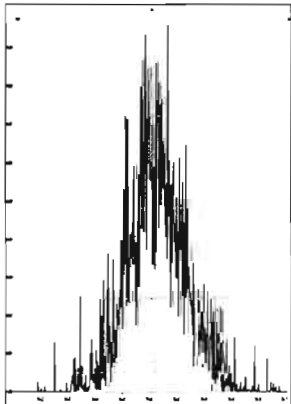
M 480.9696 R 13592



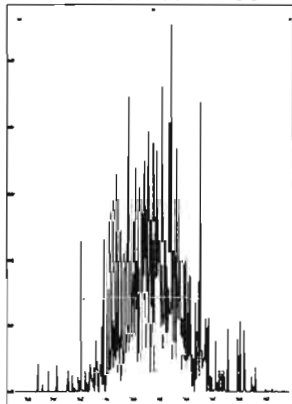
M 492.9696 R 14052



M 504.9696 R 13478



M 516.9697 R 15933



..... CALIBRATION STANDARDS REVIEW CHECKLIST

Begin Calibration ID: ST2012-14R1-2

Reviewed By: GPB 12/15/2020
Initials & Date

End Calibration ID: NA

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

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

Intergrated peaks display correctly?

GC Break <20% NA

8280 CS1 End Standard:

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

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

Comments:

Dataset: U:\VG12.PRO\Results\201214R1\201214R1_2.qld

Last Altered: Monday, December 14, 2020 12:09:46 Pacific Standard Time

Printed: Monday, December 14, 2020 12:20:55 Pacific Standard Time

HN 12/14/2020

GPB 12/15/2020

Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201214R1_2, Date: 14-Dec-2020, Time: 11:24:15, ID: ST201214R1_2 1613 CS3 20L0301, Description: 1613 CS3 20L0301

#	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	1.27e5	1.26e6	0.77	NO	0.980	26.38	26.38	NO	1.001	1.001	10.271	103	NO
2	2 1,2,3,7,8-PeCDD	4.85e5	9.68e5	0.62	NO	0.932	31.06	31.05	NO	1.001	1.000	53.732	107	NO
3	3 1,2,3,4,7,8-HxCDD	4.10e5	7.69e5	1.24	NO	1.02	34.36	34.36	NO	1.001	1.001	52.228	104	NO
4	4 1,2,3,6,7,8-HxCDD	4.19e5	8.78e5	1.23	NO	0.902	34.48	34.47	NO	1.001	1.000	52.902	106	NO
5	5 1,2,3,7,8,9-HxCDD	4.12e5	8.51e5	1.23	NO	0.954	34.74	34.74	NO	1.000	1.000	50.742	101	NO
6	6 1,2,3,4,6,7,8-HpCDD	3.17e5	6.97e5	1.03	NO	0.918	38.20	38.20	NO	1.000	1.000	49.520	99.0	NO
7	7 OCDD	5.02e5	1.09e6	0.88	NO	0.866	41.10	41.10	NO	1.000	1.000	106.32	106	NO
8	8 2,3,7,8-TCDF	1.42e5	1.77e6	0.74	NO	0.848	25.67	25.68	NO	1.000	1.001	9.4613	94.6	NO
9	9 1,2,3,7,8-PeCDF	7.35e5	1.46e6	1.55	NO	0.960	29.78	29.80	NO	1.000	1.000	52.529	105	NO
10	10 2,3,4,7,8-PeCDF	7.53e5	1.36e6	1.52	NO	1.07	30.86	30.85	NO	1.001	1.000	51.840	104	NO
11	11 1,2,3,4,7,8-HxCDF	4.79e5	9.93e5	1.21	NO	0.986	33.44	33.45	NO	1.000	1.001	48.986	98.0	NO
12	12 1,2,3,6,7,8-HxCDF	5.12e5	9.95e5	1.21	NO	1.04	33.58	33.58	NO	1.001	1.001	49.544	99.1	NO
13	13 2,3,4,6,7,8-HxCDF	4.73e5	9.34e5	1.23	NO	1.02	34.25	34.24	NO	1.001	1.000	49.707	99.4	NO
14	14 1,2,3,7,8,9-HxCDF	4.54e5	9.23e5	1.24	NO	0.991	35.24	35.25	NO	1.000	1.001	49.674	99.3	NO
15	15 1,2,3,4,6,7,8-HpCDF	3.67e5	7.01e5	1.01	NO	1.05	36.81	36.82	NO	1.000	1.001	49.825	99.6	NO
16	16 1,2,3,4,7,8,9-HpCDF	3.32e5	5.66e5	1.01	NO	1.18	38.82	38.82	NO	1.000	1.000	49.839	99.7	NO
17	17 OCDF	5.54e5	1.23e6	0.87	NO	0.896	41.38	41.39	NO	1.000	1.000	100.54	101	NO
18	18 13C-2,3,7,8-TCDD	1.26e6	1.18e6	0.79	NO	1.06	26.35	26.35	NO	1.030	1.030	101.23	101	NO
19	19 13C-1,2,3,7,8-PeCDD	9.68e5	1.18e6	0.63	NO	0.785	31.19	31.03	NO	1.219	1.213	104.90	105	NO
20	20 13C-1,2,3,4,7,8-HxCDD	7.69e5	1.10e6	1.29	NO	0.621	34.34	34.34	NO	1.014	1.014	112.32	112	NO
21	21 13C-1,2,3,6,7,8-HxCDD	8.78e5	1.10e6	1.25	NO	0.734	34.46	34.46	NO	1.017	1.017	108.34	108	NO
22	22 13C-1,2,3,7,8,9-HxCDD	8.51e5	1.10e6	1.27	NO	0.723	34.74	34.73	NO	1.026	1.025	106.69	107	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.97e5	1.10e6	1.04	NO	0.568	38.24	38.19	NO	1.129	1.127	111.25	111	NO
24	24 13C-OCDD	1.09e6	1.10e6	0.90	NO	0.496	41.18	41.09	NO	1.216	1.213	199.47	99.7	NO
25	25 13C-2,3,7,8-TCDF	1.77e6	1.87e6	0.77	NO	0.919	25.65	25.67	NO	1.003	1.003	102.83	103	NO
26	26 13C-1,2,3,7,8-PeCDF	1.46e6	1.87e6	1.59	NO	0.715	29.90	29.78	NO	1.169	1.164	109.00	109	NO
27	27 13C-2,3,4,7,8-PeCDF	1.36e6	1.87e6	1.58	NO	0.689	30.99	30.84	NO	1.212	1.206	105.79	106	NO
28	28 13C-1,2,3,4,7,8-HxCDF	9.93e5	1.10e6	0.50	NO	0.873	33.44	33.43	NO	0.987	0.987	102.95	103	NO
29	29 13C-1,2,3,6,7,8-HxCDF	9.95e5	1.10e6	0.51	NO	0.933	33.57	33.56	NO	0.991	0.991	96.583	96.6	NO
30	30 13C-2,3,4,6,7,8-HxCDF	9.34e5	1.10e6	0.51	NO	0.843	34.24	34.23	NO	1.011	1.010	100.33	100	NO
31	31 13C-1,2,3,7,8,9-HxCDF	9.23e5	1.10e6	0.51	NO	0.780	35.24	35.23	NO	1.040	1.040	107.16	107	NO

Dataset: U:\VG12.PRO\Results\201214R1\201214R1_2.qld

Last Altered: Monday, December 14, 2020 12:09:46 Pacific Standard Time
Printed: Monday, December 14, 2020 12:20:55 Pacific Standard Time

Name: 201214R1_2, Date: 14-Dec-2020, Time: 11:24:15, ID: ST201214R1_2 1613 CS3 20L0301, Description: 1613 CS3 20L0301

#	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	7.01e5	1.10e6	0.42	NO	0.726	36.81	36.79	NO	1.087	1.086	87.439	87.4	NO
33	13C-1,2,3,4,7,8,9-HpCDF	5.66e5	1.10e6	0.43	NO	0.491	38.82	38.81	NO	1.146	1.145	104.38	104	NO
34	13C-OCDF	1.23e6	1.10e6	0.87	NO	0.565	41.40	41.38	NO	1.222	1.221	197.00	98.5	NO
35	37Cl-2,3,7,8-TCDD	1.59e5	1.18e6			1.22	26.35	26.38	NO	1.030	1.031	11.077	111	NO
36	13C-1,2,3,4-TCDD	1.18e6	1.18e6	0.80	NO	1.00	25.64	25.58	NO	1.000	1.000	100.00	100	NO
37	13C-1,2,3,4-TCDF	1.87e6	1.87e6	0.79	NO	1.00	24.13	24.09	NO	1.000	1.000	100.00	100	NO
38	13C-1,2,3,4,6,9-HxCDF	1.10e6	1.10e6	0.51	NO	1.00	33.92	33.88	NO	1.000	1.000	100.00	100	YES <i>ok</i>

Dataset: Untitled

Last Altered: Tuesday, December 15, 2020 6:52:02 AM Pacific Standard Time
Printed: Tuesday, December 15, 2020 6:53:09 AM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Compound name: 2,3,4,7,8-PeCDF

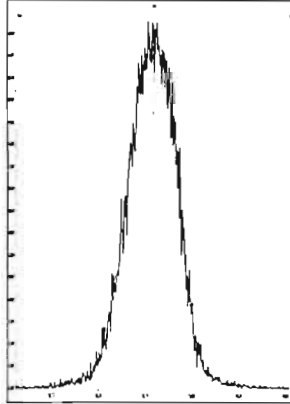
	Name	ID	Acq.Date	Acq.Time
1	201214R1_1	ST201214R1_1 1613 CS3 20L0301	14-Dec-20	10:05:30
2	201214R1_2	ST201214R1_2 1613 CS3 20L0301	14-Dec-20	11:24:15
3	201214R1_3	SOLVENT BLANK	14-Dec-20	12:12:55
4	201214R1_4	SOLVENT BLANK	14-Dec-20	13:02:53
5	201214R1_5	B0L0040-BS1 OPR 10	14-Dec-20	13:49:10
6	(A) 201214R1_6			
7	201214R1_7	B0L0040-BLK1 Method Blank 10	14-Dec-20	15:22:36
8	201214R1_8	2002431-06@10X USMPDI-044SC-A-10-11-2...	14-Dec-20	16:09:29
9	201214R1_9	2002434-10 USMPDI-056SC-A-01-02-201107 ...	14-Dec-20	16:53:43
10	201214R1_10	2002434-13 USMPDI-056SC-A-04-05-201107 ...	14-Dec-20	17:37:57
11	201214R1_11	B0L0034-DUP1 Duplicate 16.99	14-Dec-20	18:22:12
12	201214R1_12	B0L0034-DUP2 Duplicate 17.17	14-Dec-20	19:06:26
13	201214R1_13	2002435-01 USMPDI-013SC-A-01-02-201108 ...	14-Dec-20	19:50:42
14	201214R1_14	2002435-02 USMPDI-013SC-A-02-03-201108 ...	14-Dec-20	20:34:57

(A) Instrument paused, allowed solvent blank (4x) to go through GC cycle, no data acquired HN 12/15/2020 ✓

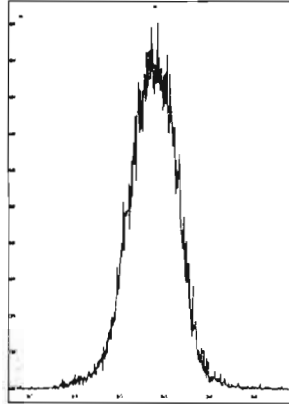
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Monday, December 14, 2020 11:19:04 Pacific Standard Time

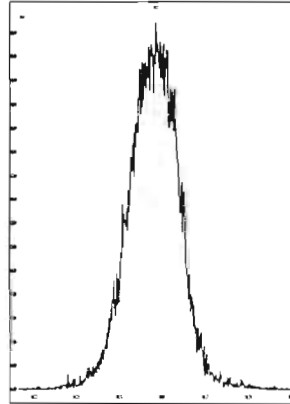
M 292.9824 R 12625



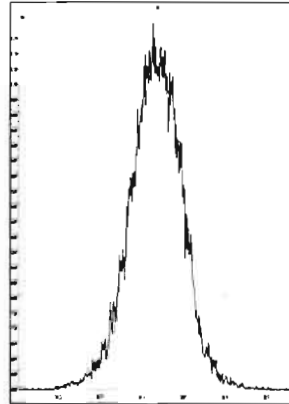
M 304.9824 R 12502



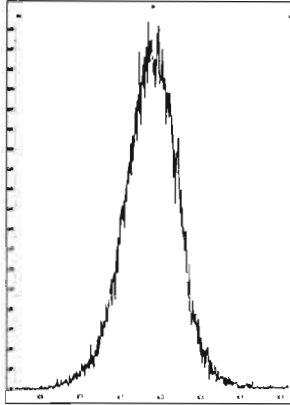
M 318.9792 R 12690



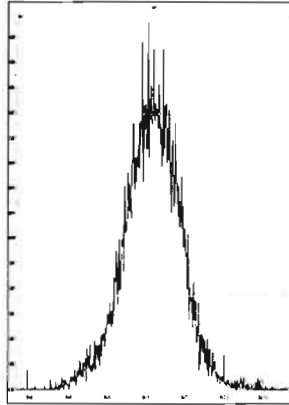
M 330.9792 R 11064



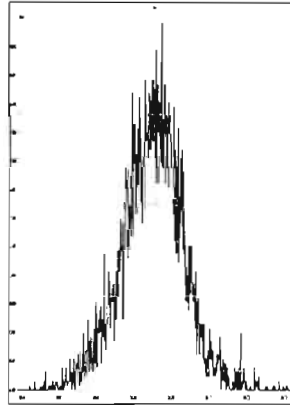
M 342.9792 R 11057



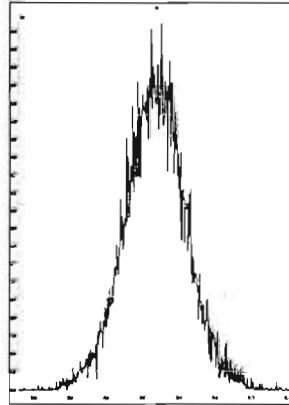
M 354.9792 R 11259



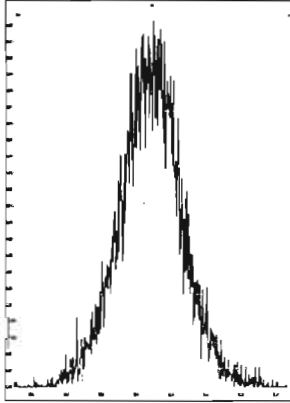
M 366.9792 R 11312



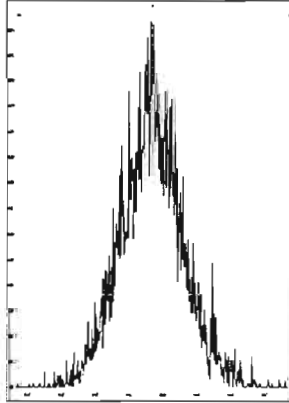
M 380.9760 R 11362



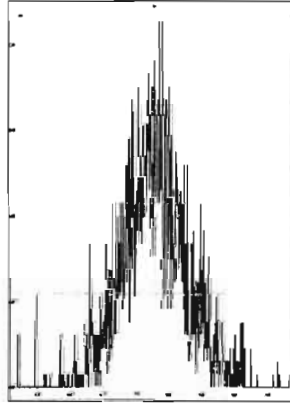
M 392.9760 R 10122



M 404.9760 R 11061



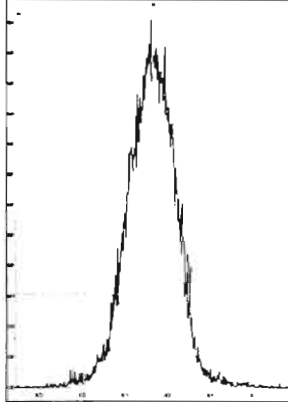
M 416.9760 R 12378



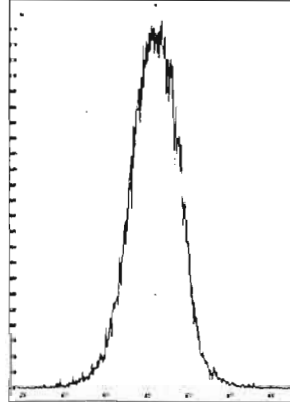
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Monday, December 14, 2020 11:20:11 Pacific Standard Time

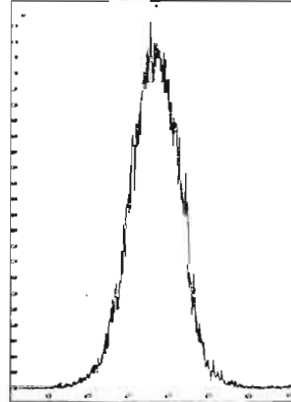
M 318.9792 R 12754



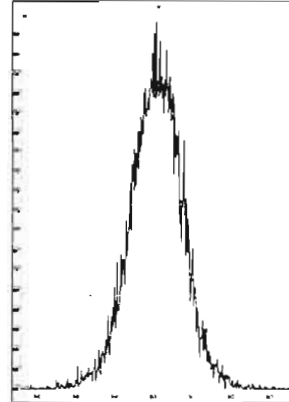
M 330.9792 R 11850



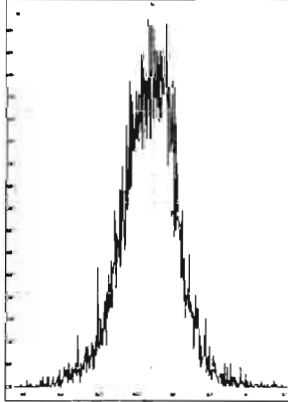
M 342.9792 R 12195



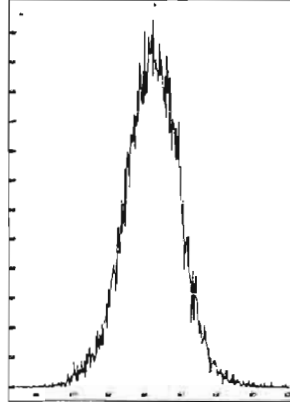
M 354.9792 R 12257



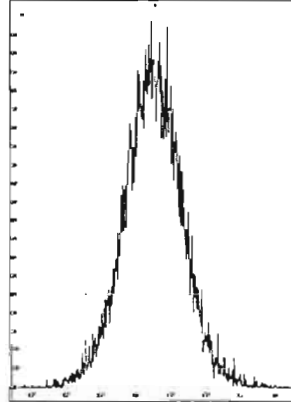
M 366.9792 R 11463



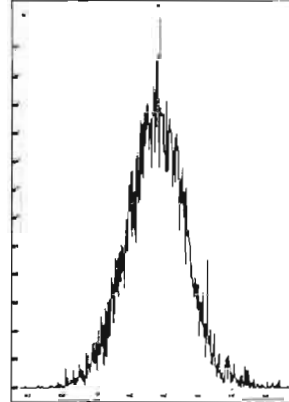
M 380.9760 R 11016



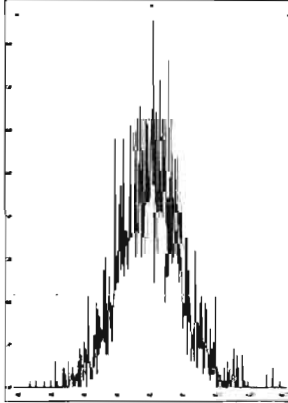
M 392.9760 R 10639



M 404.9760 R 10641



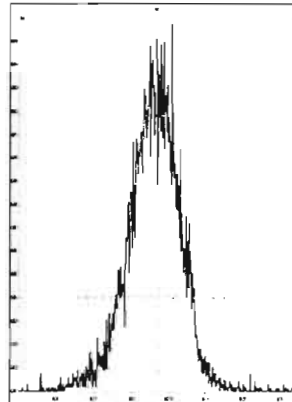
M 416.9760 R 11738



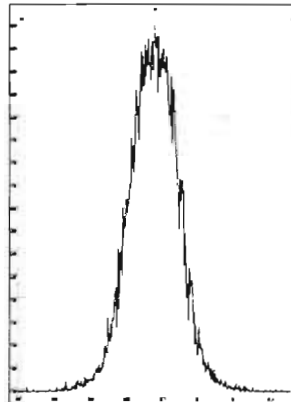
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Printed: Monday, December 14, 2020 11:21:09 Pacific Standard Time

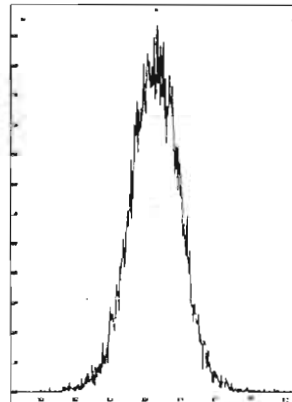
M 366.9792 R 12501



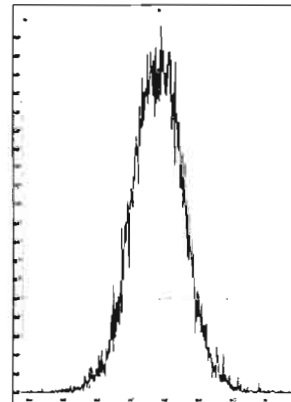
M 380.9760 R 11904



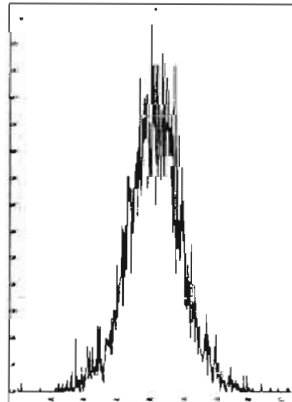
M 392.9760 R 11964



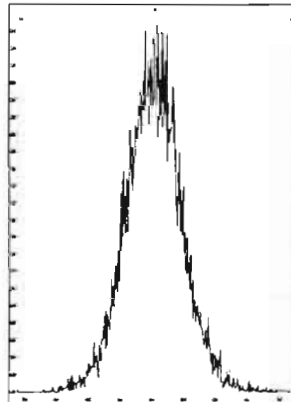
M 404.9760 R 11013



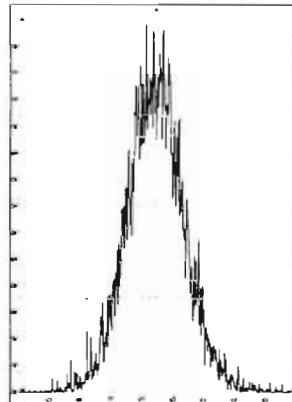
M 416.9760 R 12624



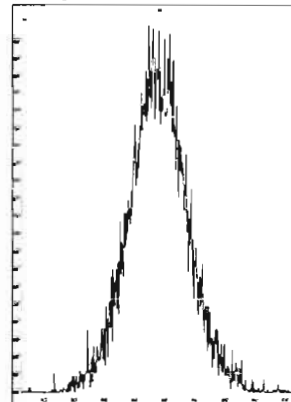
M 430.9728 R 12020



M 442.9728 R 10868



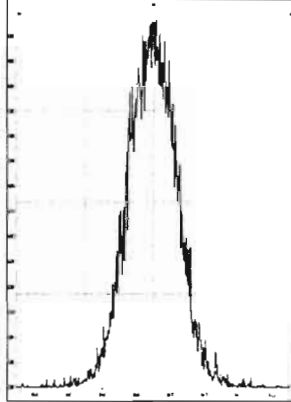
M 454.9728 R 10037



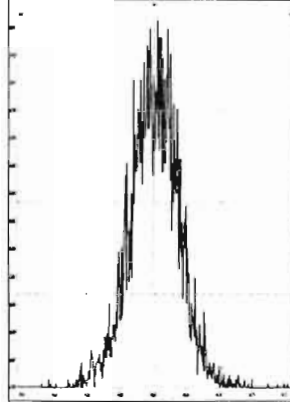
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Printed: Monday, December 14, 2020 11:22:03 Pacific Standard Time

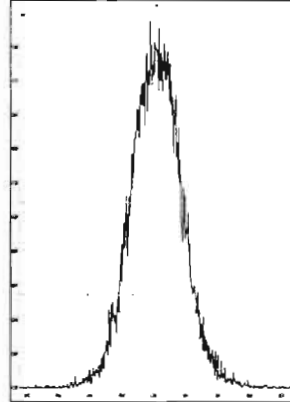
M 404.9760 R 12627



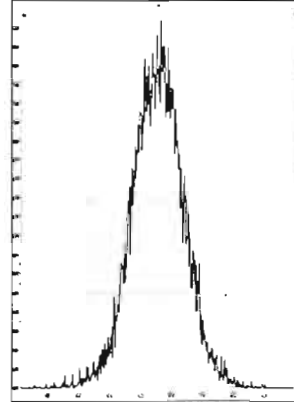
M 416.9760 R 13019



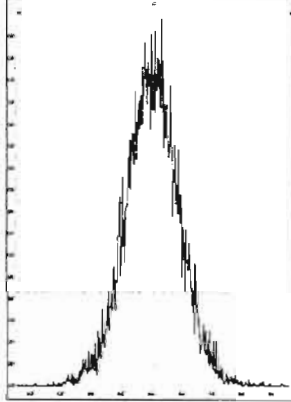
M 430.9728 R 12196



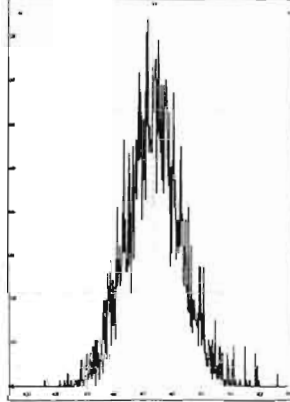
M 442.9728 R 11681



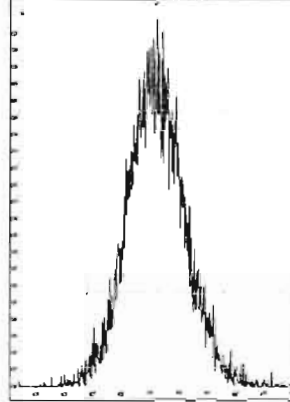
M 454.9728 R 11680



M 466.9728 R 12135



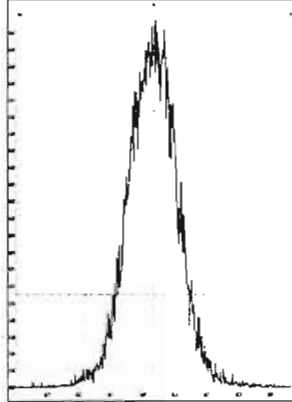
M 480.9696 R 10868



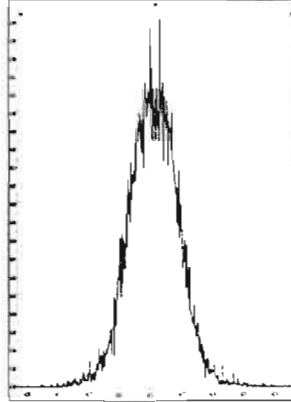
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Printed: Monday, December 14, 2020 11:22:48 Pacific Standard Time

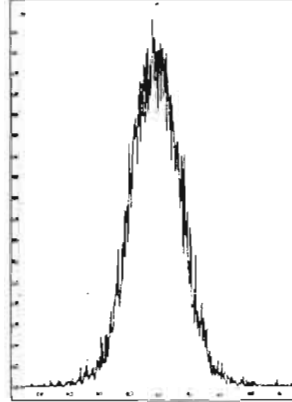
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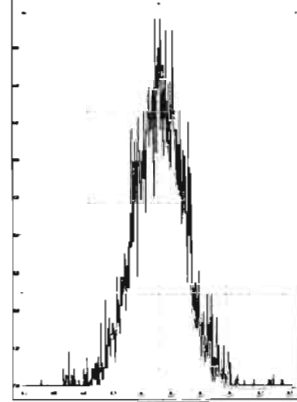
M 442.9728 R 12565



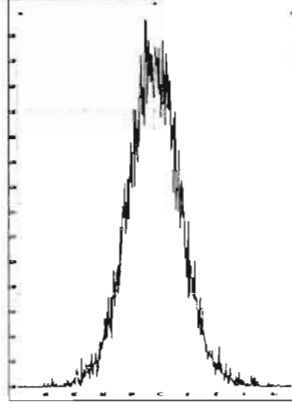
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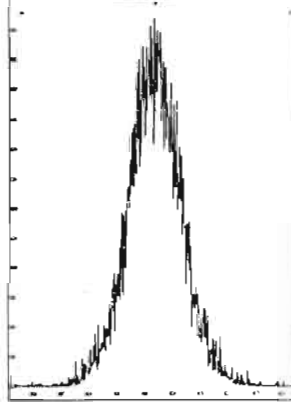
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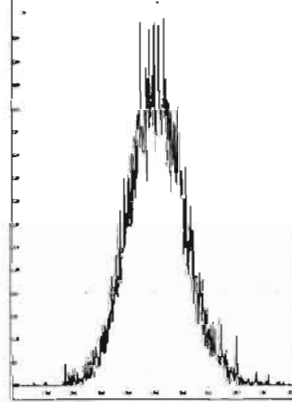
M 480.9696 R 11629



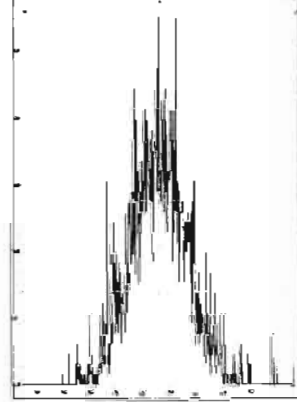
M 492.9696 R 11904



M 504.9696 R 10549



M 516.9697 R 13513



Dataset: U:\VG12.PRO\Results\201214R1\201214R1_CPSM.qld

Last Altered: Monday, December 14, 2020 12:15:08 Pacific Standard Time

Printed: Monday, December 14, 2020 12:15:48 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 11 Dec 2020 14:14:32

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201214R1_2, Date: 14-Dec-2020, Time: 11:24:15, ID: ST201214R1_2 1613 CS3 20L0301, Description: 1613 CS3 20L0301

#	Name	RT
1	1,3,6,8-TCDD (First)	22.56
2	1,2,8,9-TCDD (Last)	27.27
3	1,2,4,7,9-PeCDD (First)	28.79
4	1,2,3,8,9-PeCDD (Last)	31.41
5	1,2,4,6,7,9-HxCDD (First)	32.71
6	1,2,3,7,8,9-HxCDD (Last)	34.74
7	1,2,3,4,6,7,9-HpCDD (First)	37.20
8	1,2,3,4,6,7,8-HpCDD (Last)	38.20
9	1,3,6,8-TCDF (First)	20.30
10	1,2,8,9-TCDF (Last)	27.56
11	1,3,4,6,8-PeCDF (First)	27.13
12	1,2,3,8,9-PeCDF (Last)	31.76
13	1,2,3,4,6,8-HxCDF (First)	32.18
14	1,2,3,7,8,9-HxCDF (Last)	35.25
15	1,2,3,4,6,7,8-HpCDF (First)	36.82
16	1,2,3,4,7,8,9-HpCDF (Last)	38.82

Dataset: U:\VG12.PRO\Results\201214R1\201214R1_CPSM.qld

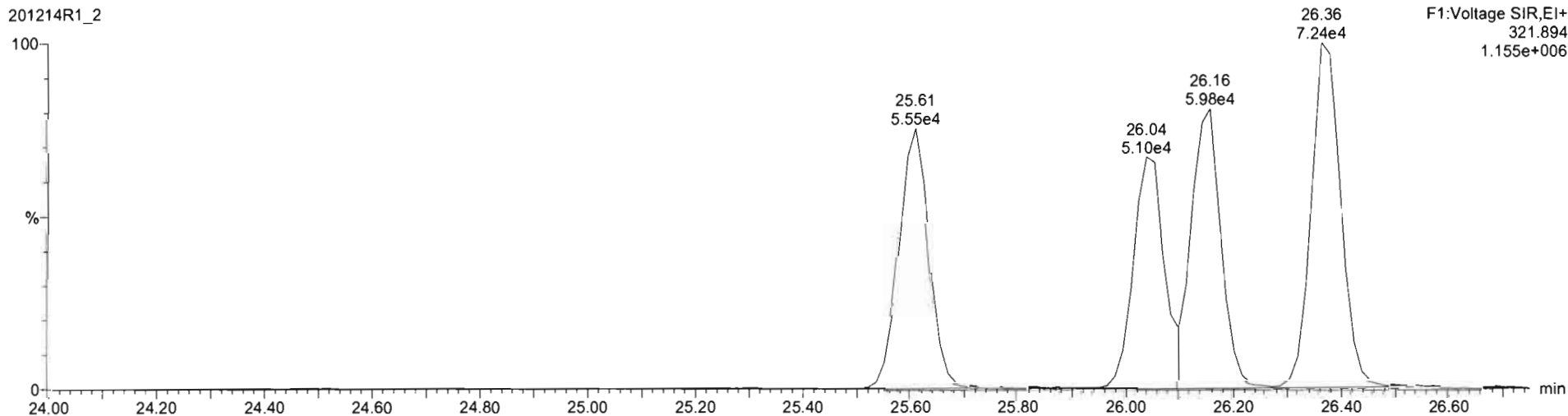
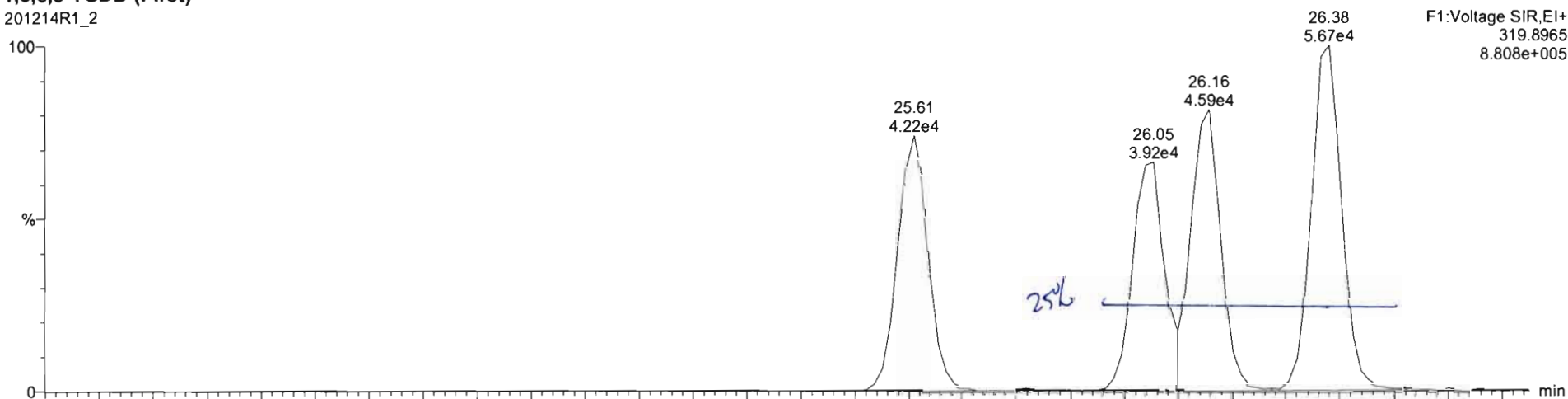
Last Altered: Monday, December 14, 2020 12:15:08 Pacific Standard Time
Printed: Monday, December 14, 2020 12:15:48 Pacific Standard Time

FIN 12/14/20
GRB 12/15/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 11 Dec 2020 14:14:32
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201214R1_2, Date: 14-Dec-2020, Time: 11:24:15, ID: ST201214R1_2 1613 CS3 20L0301, Description: 1613 CS3 20L0301

1,3,6,8-TCDD (First)
201214R1_2



Vista Analytical Laboratory VG-11

Dataset: U:\VG12.PRO\Results\201214R1\201214R1_CPSM.qld

Last Altered: Monday, December 14, 2020 12:15:08 Pacific Standard Time

Printed: Monday, December 14, 2020 12:15:48 Pacific Standard Time

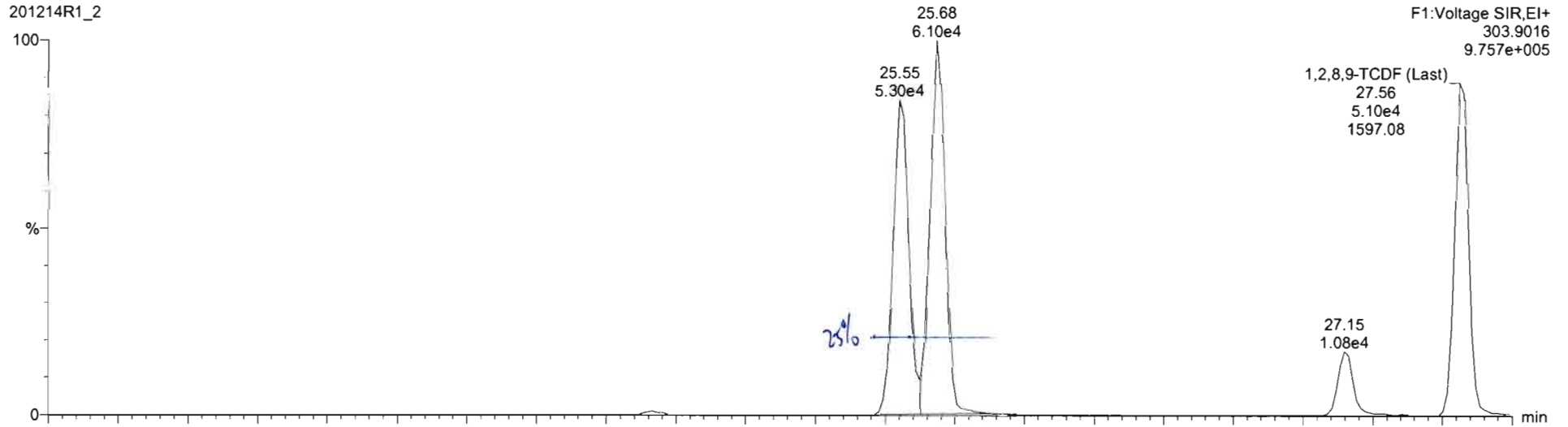
L/N 12/14/2020

GPB 12/15/2020

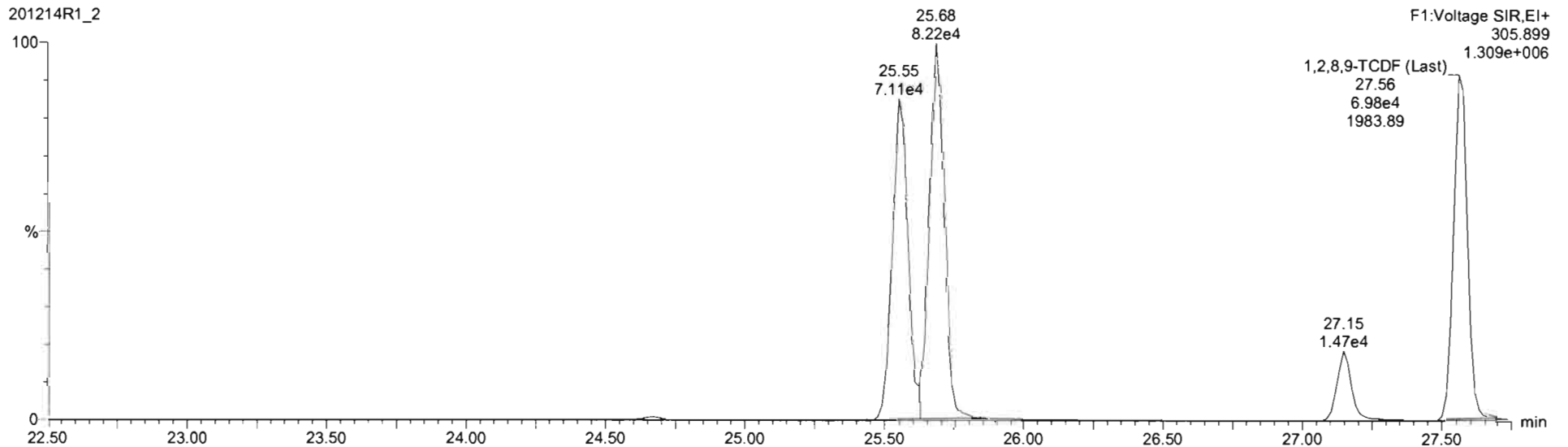
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1,3,6,8-TCDF (First)

201214R1_2



201214R1_2



Dataset: U:\VG12.PRO\Results\201214R1\201214R1_2.qld

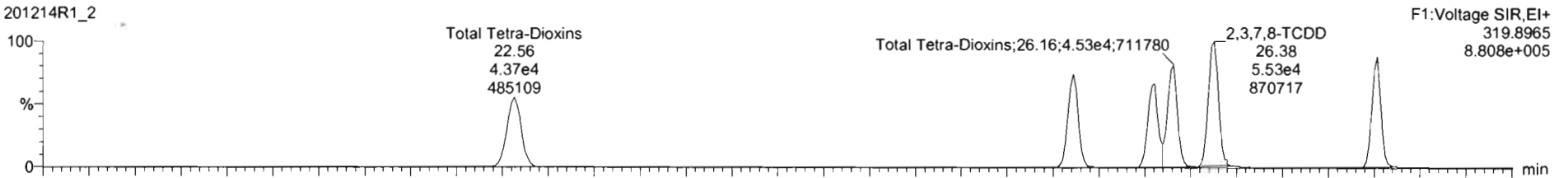
Last Altered: Monday, December 14, 2020 12:09:46 Pacific Standard Time
Printed: Monday, December 14, 2020 12:14:47 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

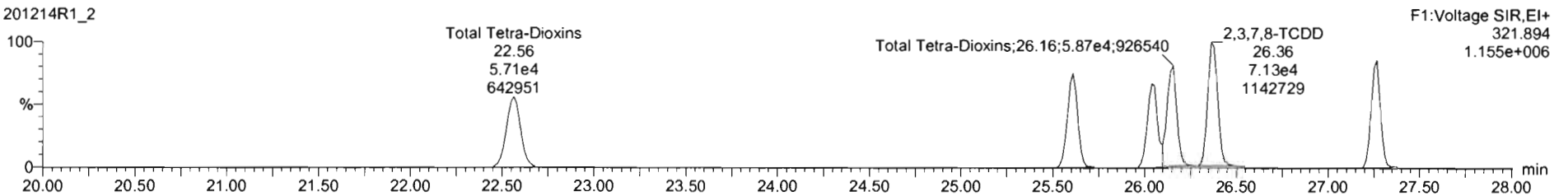
Name: 201214R1_2, Date: 14-Dec-2020, Time: 11:24:15, ID: ST201214R1_2 1613 CS3 20L0301, Description: 1613 CS3 20L0301

2,3,7,8-TCDD

201214R1_2

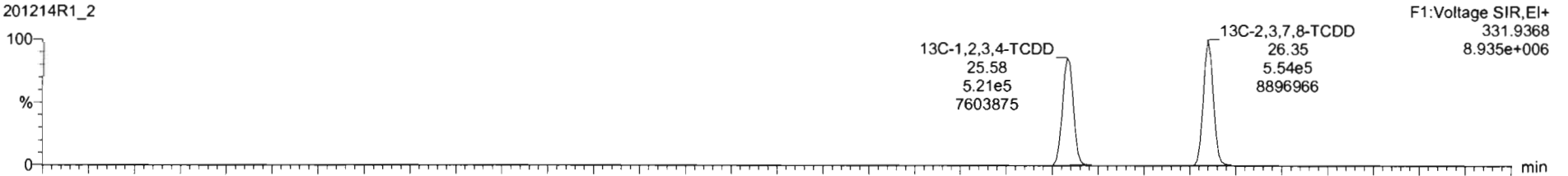


201214R1_2

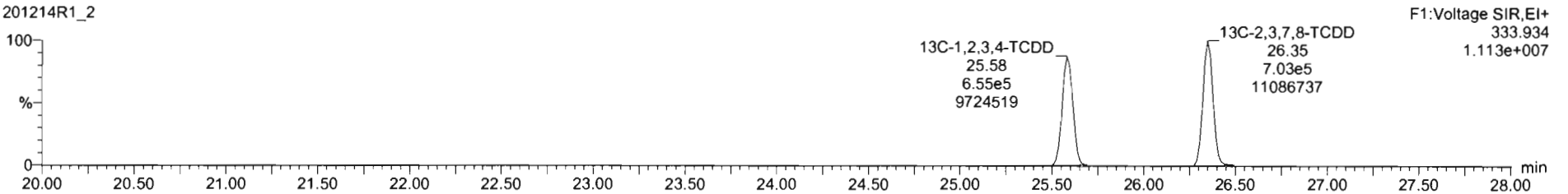


13C-2,3,7,8-TCDD

201214R1_2



201214R1_2



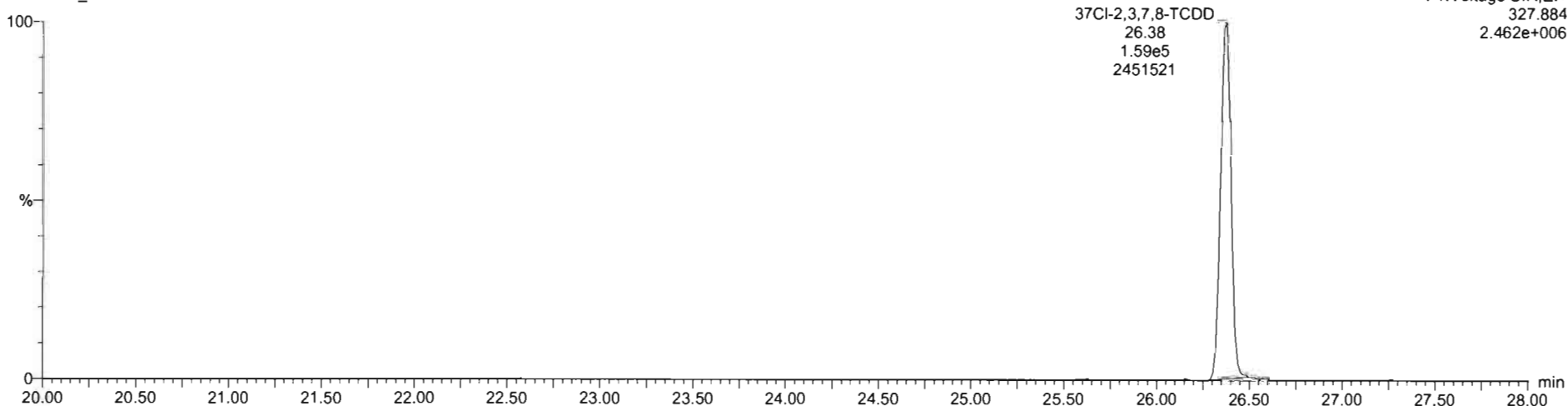
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Last Altered: Monday, December 14, 2020 12:09:46 Pacific Standard Time
Printed: Monday, December 14, 2020 12:14:47 Pacific Standard Time

Name: 201214R1_2, Date: 14-Dec-2020, Time: 11:24:15, ID: ST201214R1_2 1613 CS3 20L0301, Description: 1613 CS3 20L0301

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

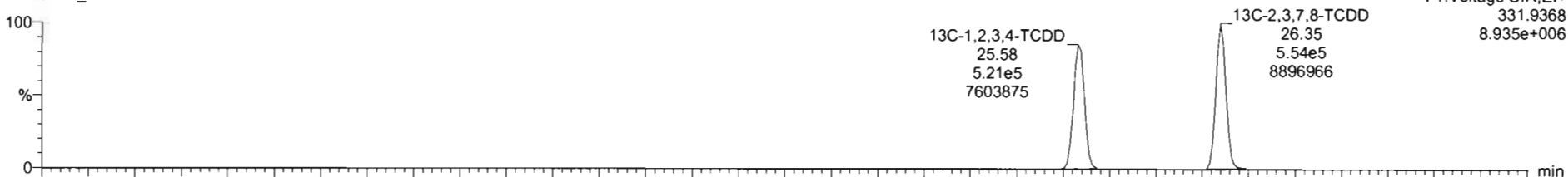
201214R1_2



F1:Voltage SIR,EI+
327.884
2.462e+006

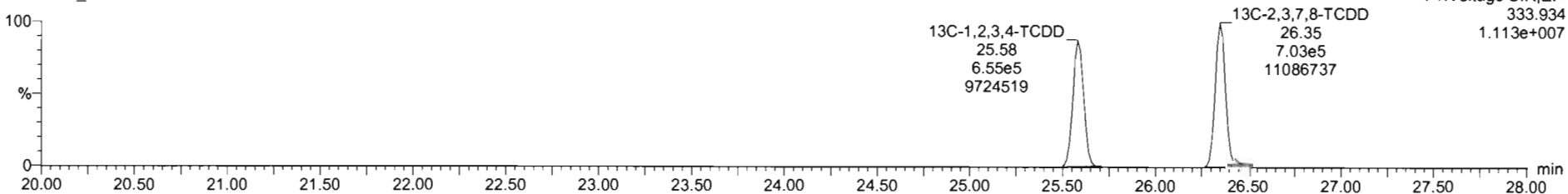
13C-1,2,3,4-TCDD

201214R1_2



F1:Voltage SIR,EI+
331.9368
8.935e+006

201214R1_2



F1:Voltage SIR,EI+
333.934
1.113e+007

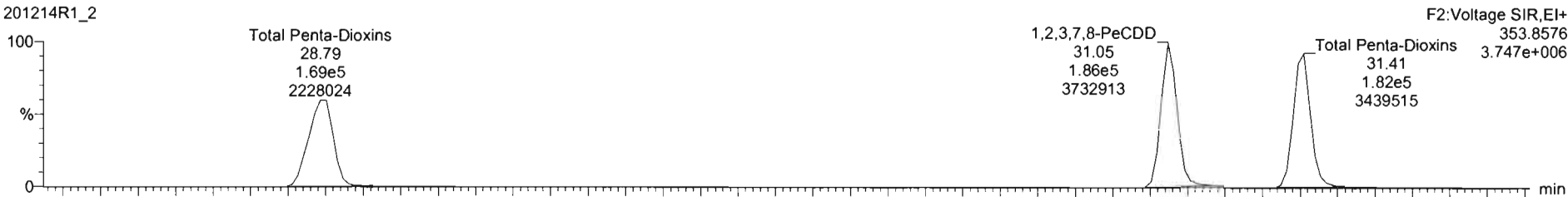
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Last Altered: Monday, December 14, 2020 12:09:46 Pacific Standard Time
Printed: Monday, December 14, 2020 12:14:47 Pacific Standard Time

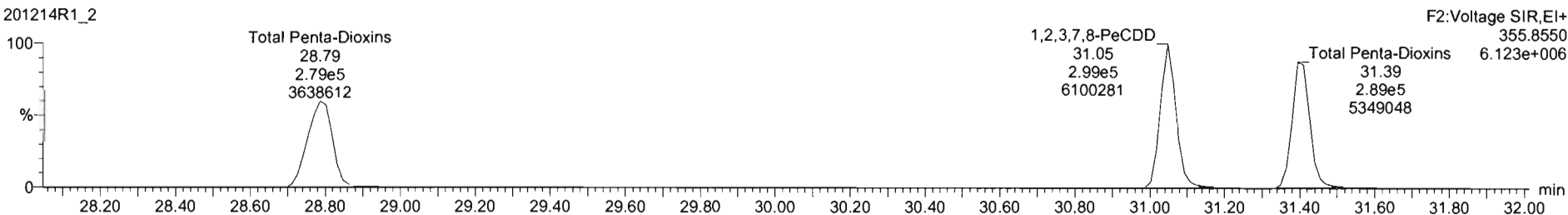
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1,2,3,7,8-PeCDD

201214R1_2

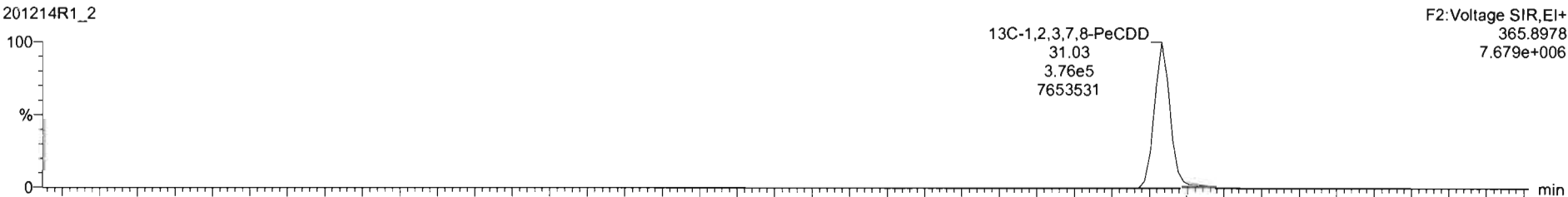


201214R1_2

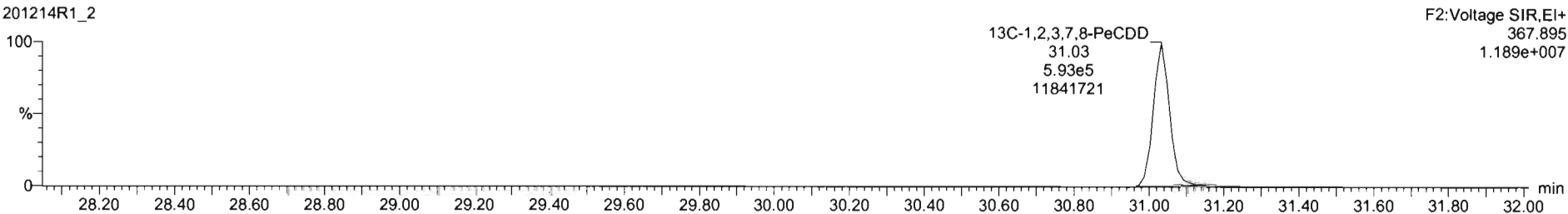


13C-1,2,3,7,8-PeCDD

201214R1_2



201214R1_2

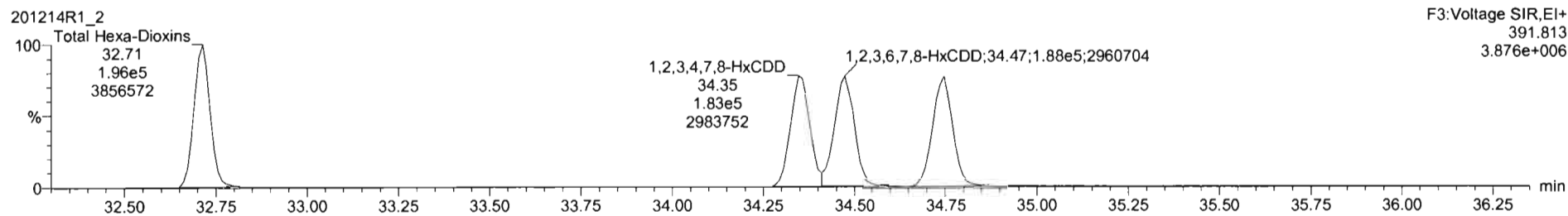
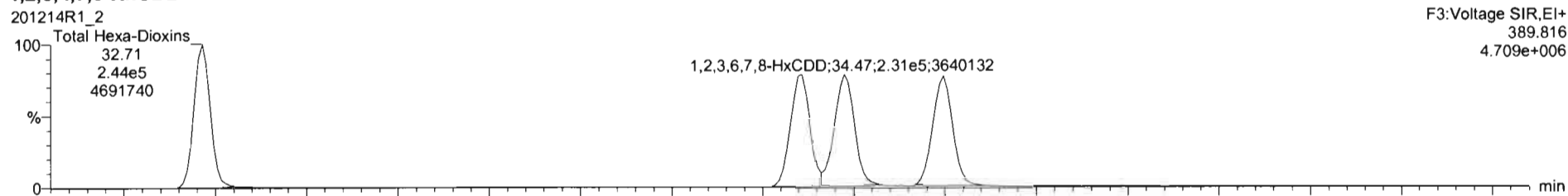


Dataset: U:\VG12.PRO\Results\201214R1\201214R1_2.qld

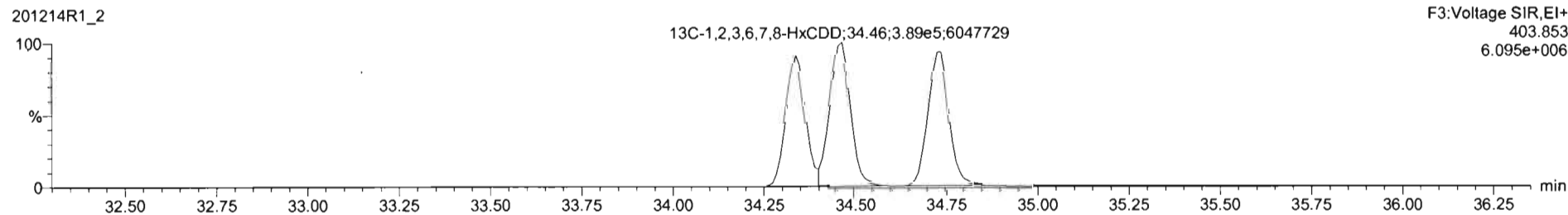
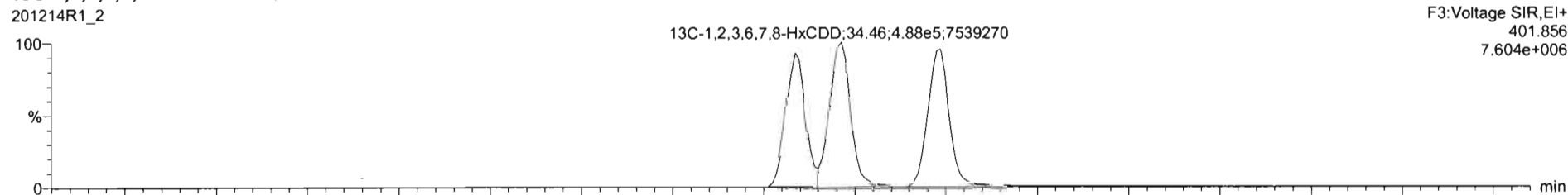
Last Altered: Monday, December 14, 2020 12:09:46 Pacific Standard Time
Printed: Monday, December 14, 2020 12:14:47 Pacific Standard Time

Name: 201214R1_2, Date: 14-Dec-2020, Time: 11:24:15, ID: ST201214R1_2 1613 CS3 20L0301, Description: 1613 CS3 20L0301

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



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

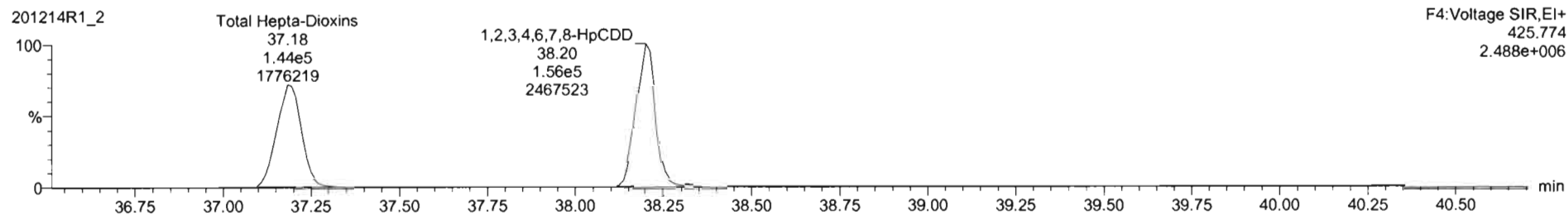
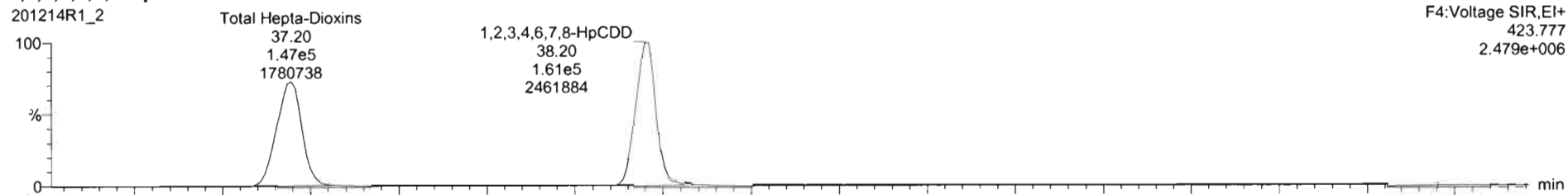


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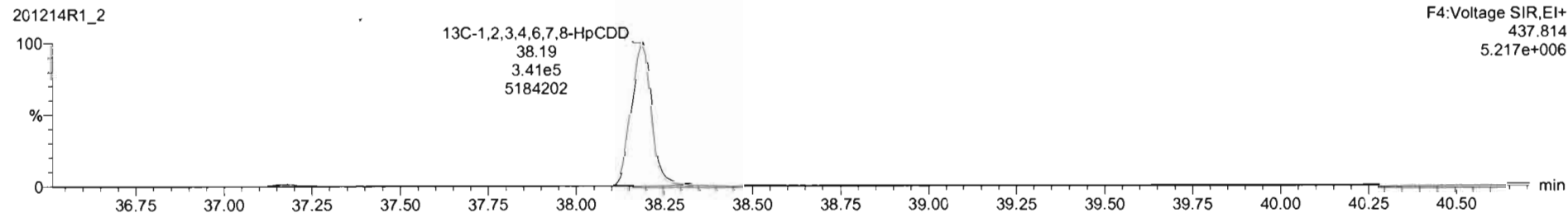
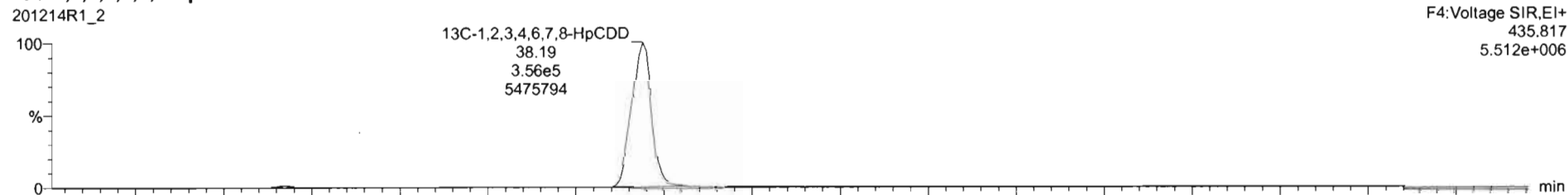
Last Altered: Monday, December 14, 2020 12:09:46 Pacific Standard Time
Printed: Monday, December 14, 2020 12:14:47 Pacific Standard Time

Name: 201214R1_2, Date: 14-Dec-2020, Time: 11:24:15, ID: ST201214R1_2 1613 CS3 20L0301, Description: 1613 CS3 20L0301

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



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



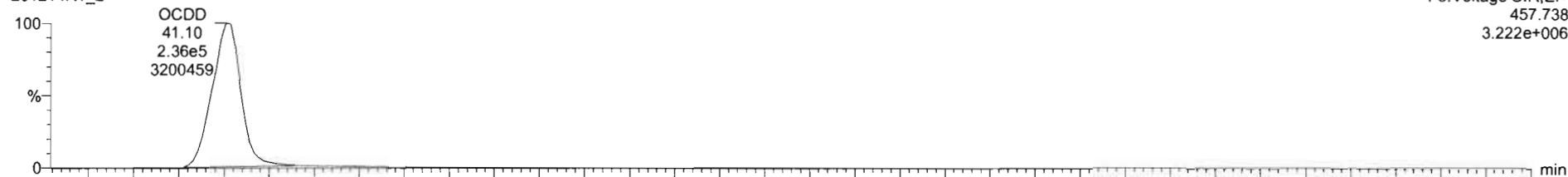
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Last Altered: Monday, December 14, 2020 12:09:46 Pacific Standard Time
Printed: Monday, December 14, 2020 12:14:47 Pacific Standard Time

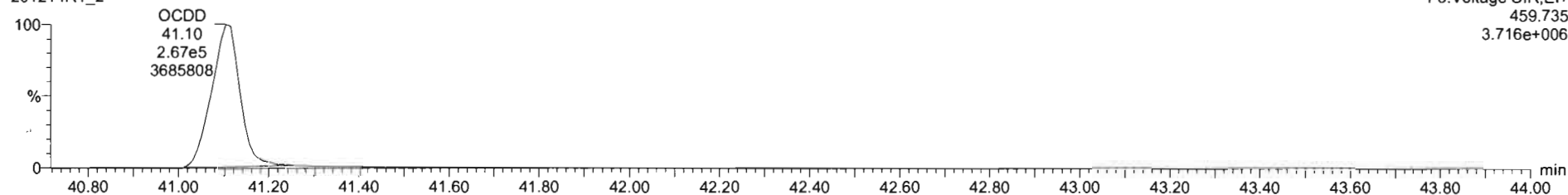
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OCDD

201214R1_2

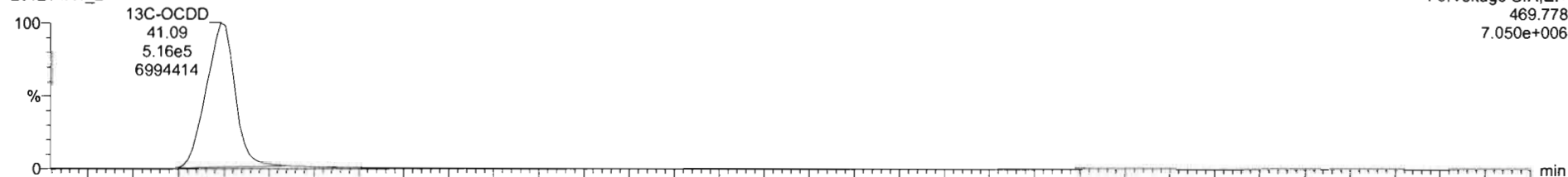


201214R1_2

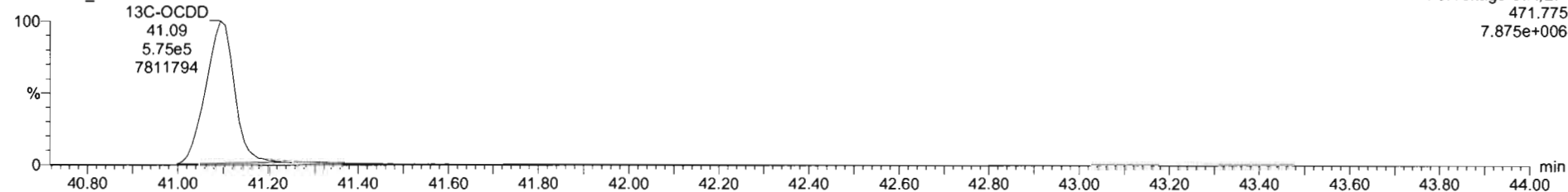


13C-OCDD

201214R1_2



201214R1_2



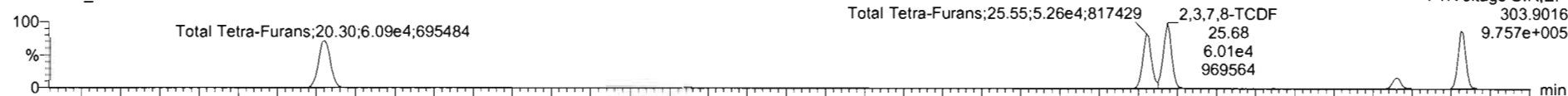
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Last Altered: Monday, December 14, 2020 12:09:46 Pacific Standard Time
Printed: Monday, December 14, 2020 12:14:47 Pacific Standard Time

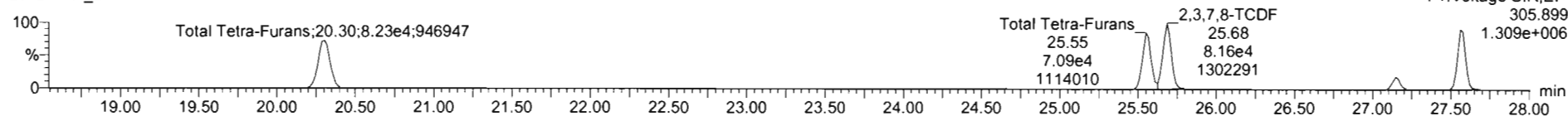
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2,3,7,8-TCDF

201214R1_2

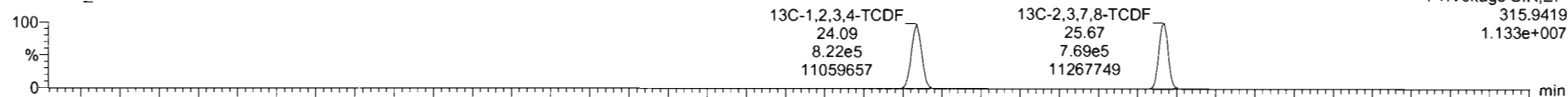


201214R1_2

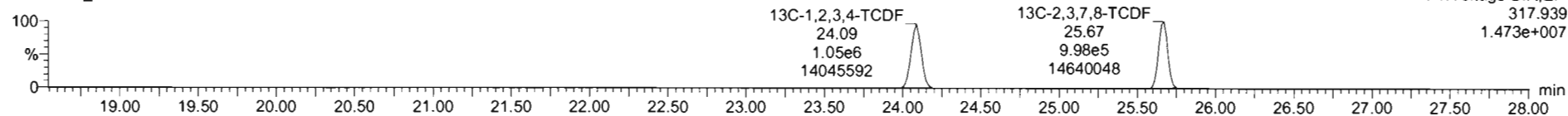


13C-2,3,7,8-TCDF

201214R1_2

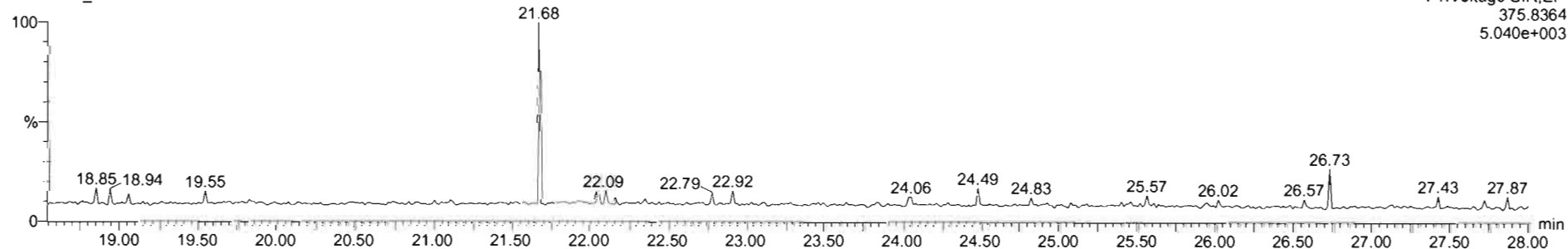


201214R1_2



DPE1

201214R1_2



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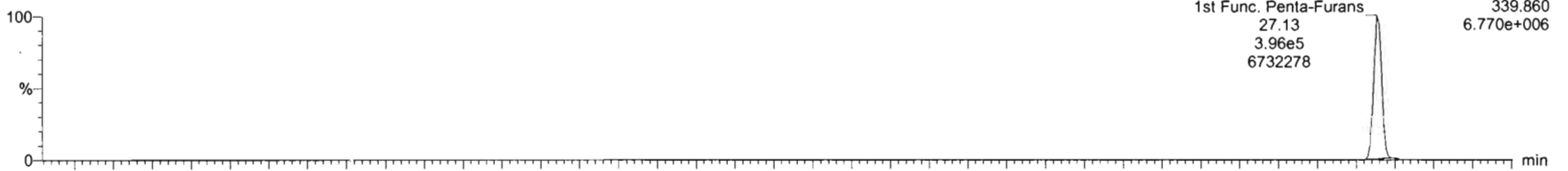
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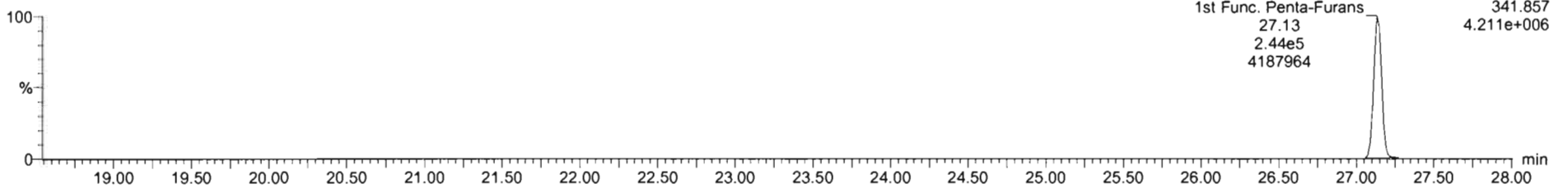
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1st Func. Penta-Furans

201214R1_2

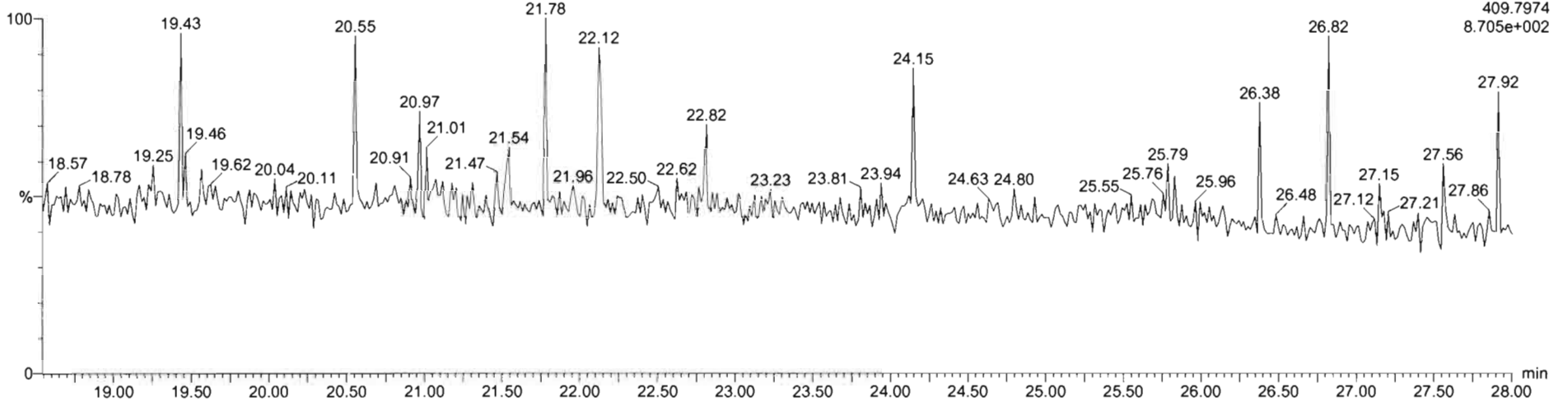


201214R1_2



DPE6

201214R1_2



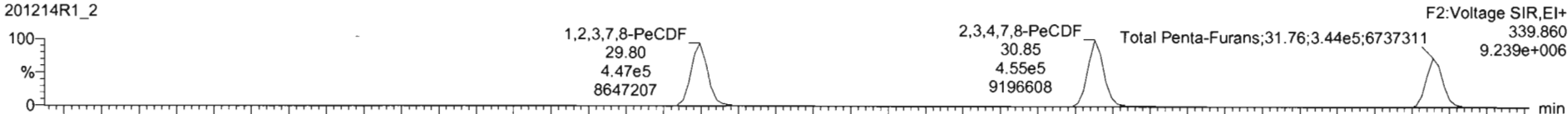
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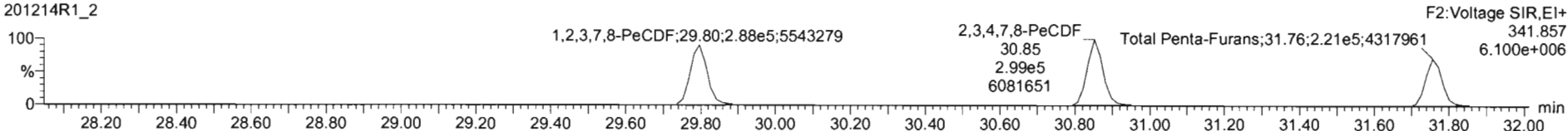
1,2,3,7,8-PeCDF

201214R1_2



F2:Voltage SIR,EI+
339.860
9.239e+006

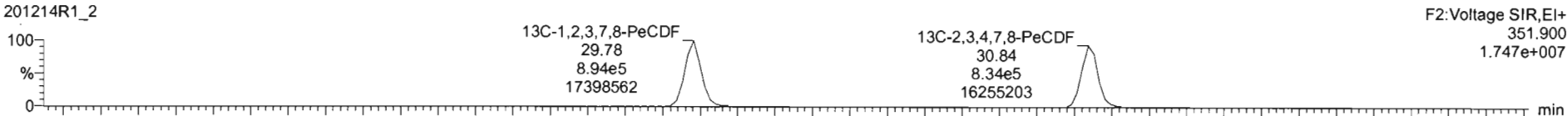
201214R1_2



F2:Voltage SIR,EI+
341.857
6.100e+006

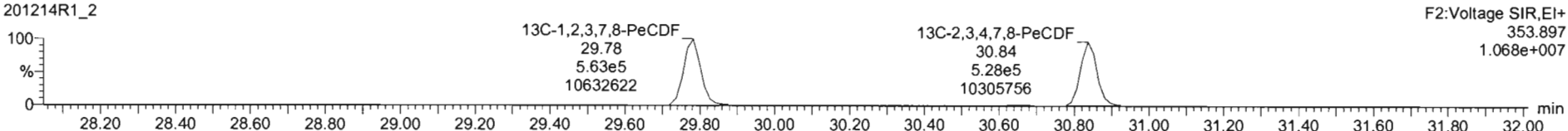
13C-1,2,3,7,8-PeCDF

201214R1_2



F2:Voltage SIR,EI+
351.900
1.747e+007

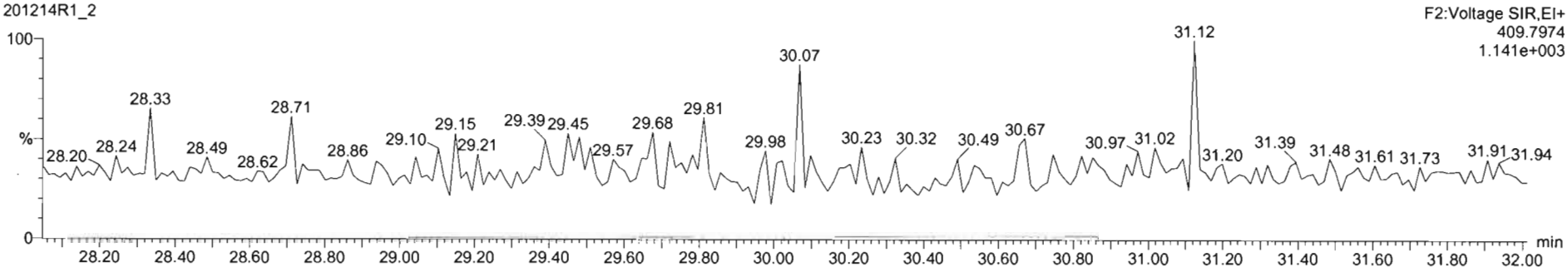
201214R1_2



F2:Voltage SIR,EI+
353.897
1.068e+007

DPE2

201214R1_2



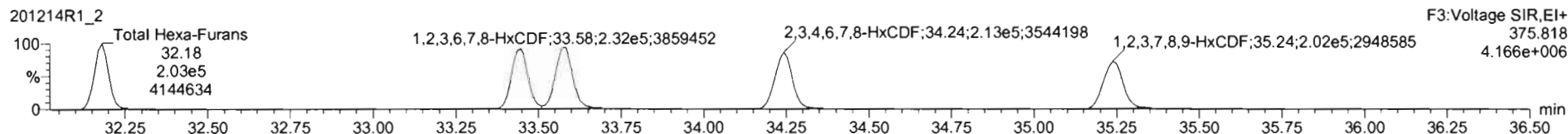
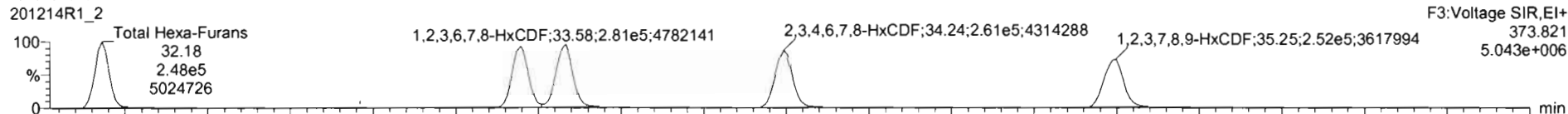
F2:Voltage SIR,EI+
409.7974
1.141e+003

Dataset: U:\VG12.PRO\Results\201214R1\201214R1_2.qld

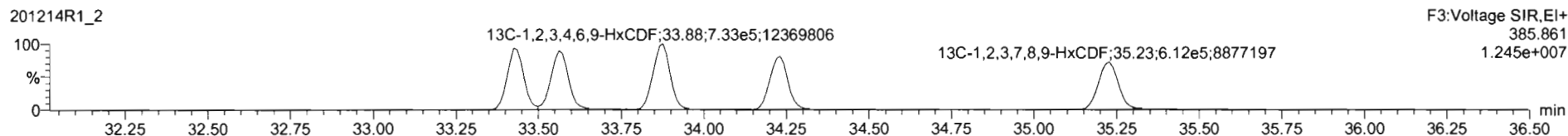
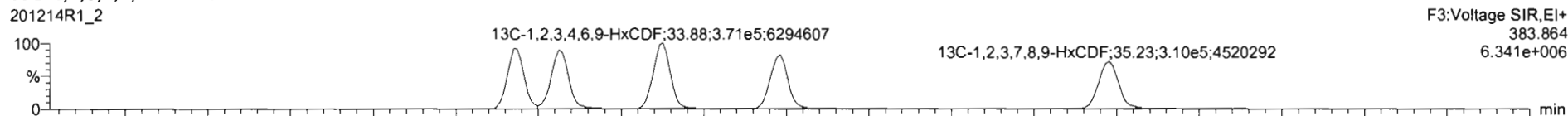
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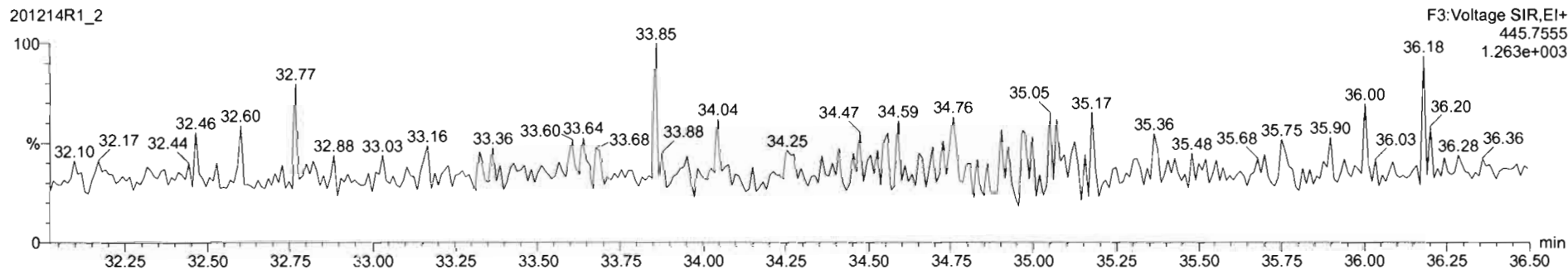
1,2,3,4,7,8-HxCDF



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



DPE3



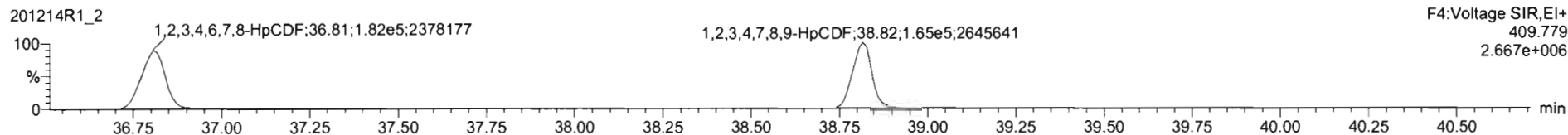
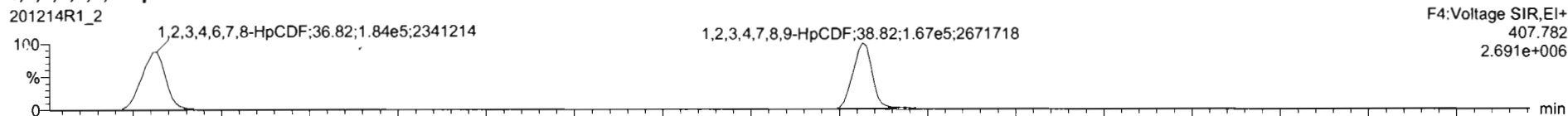
Dataset: U:\VG12.PRO\Results\201214R1\201214R1_2.qld

Last Altered: Monday, December 14, 2020 12:09:46 Pacific Standard Time

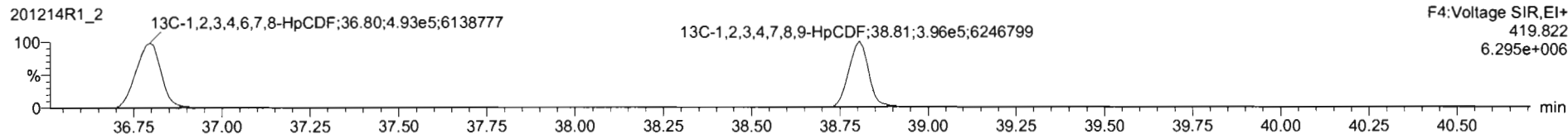
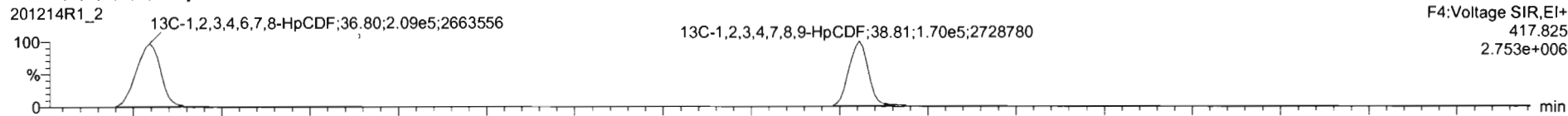
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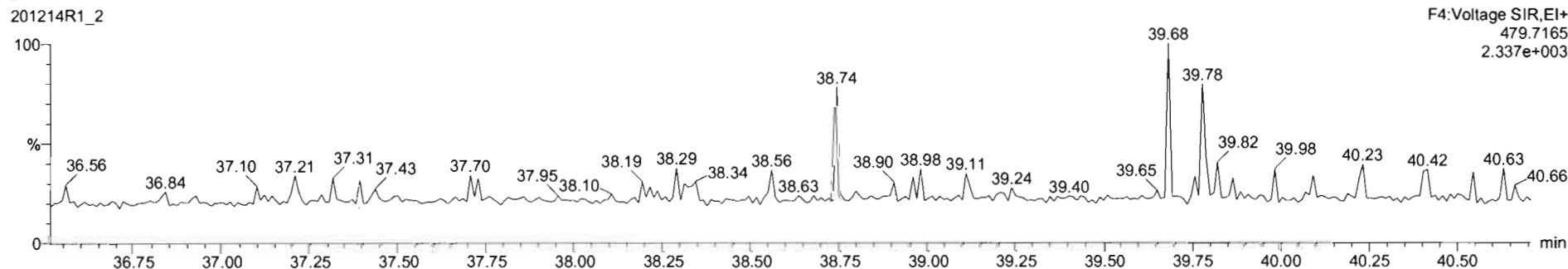
1,2,3,4,6,7,8-HpCDF



¹³C-1,2,3,4,6,7,8-HpCDF



DPE4



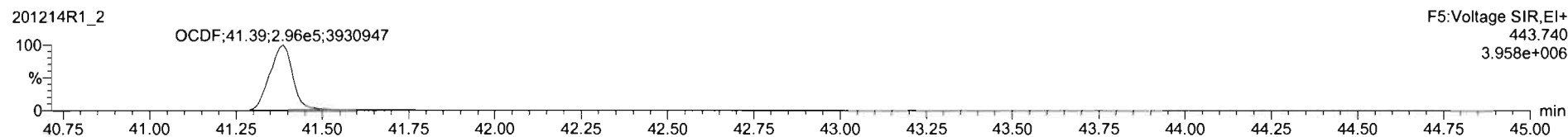
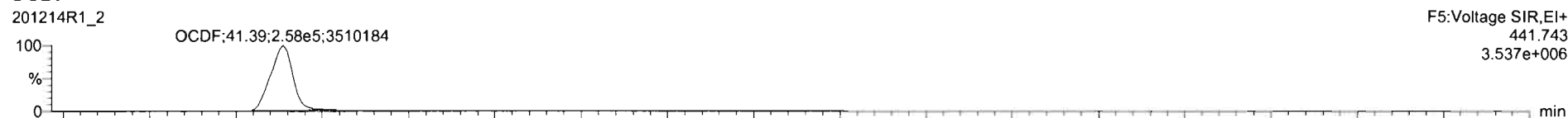
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Last Altered: Monday, December 14, 2020 12:09:46 Pacific Standard Time

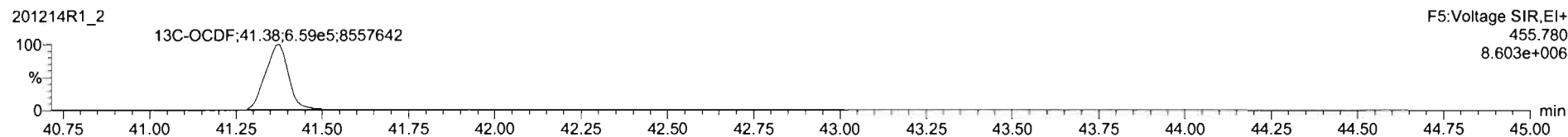
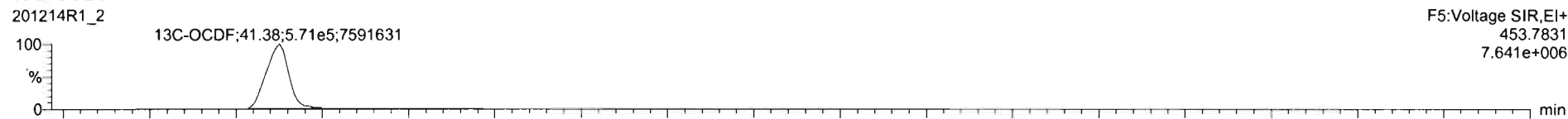
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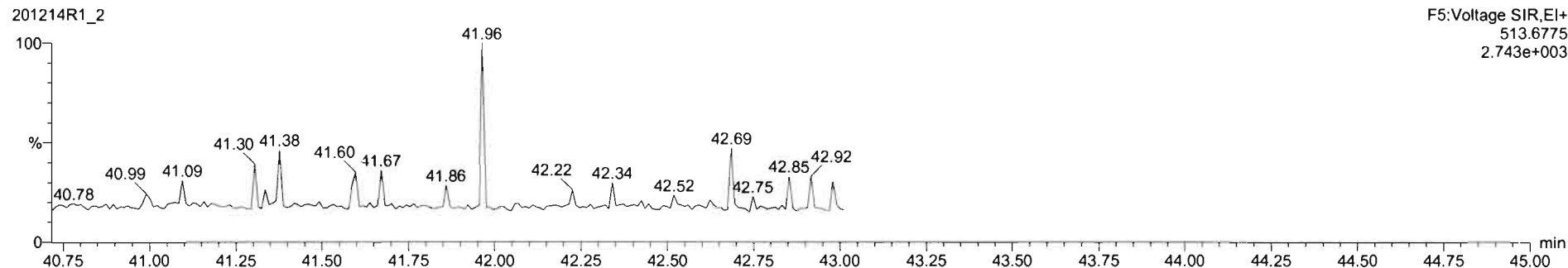
OCDF



13C-OCDF



DPE5

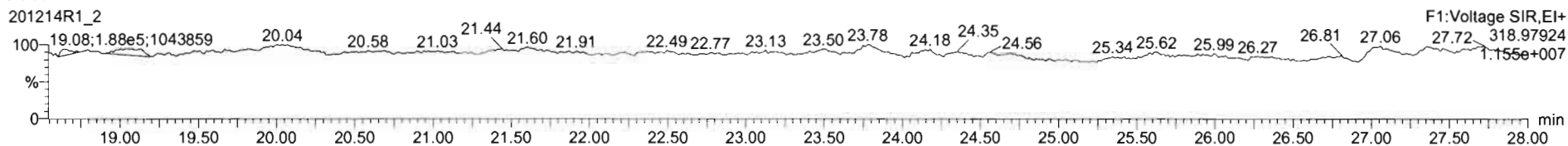


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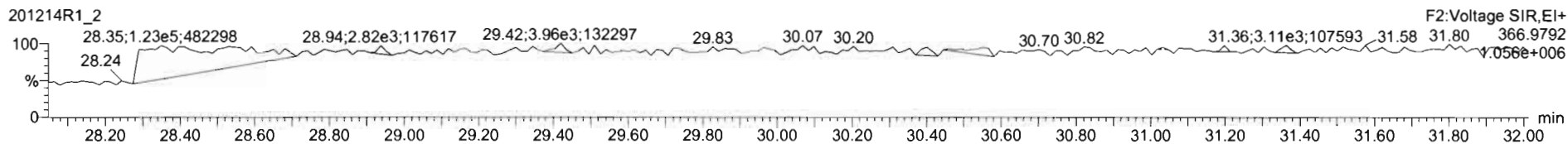
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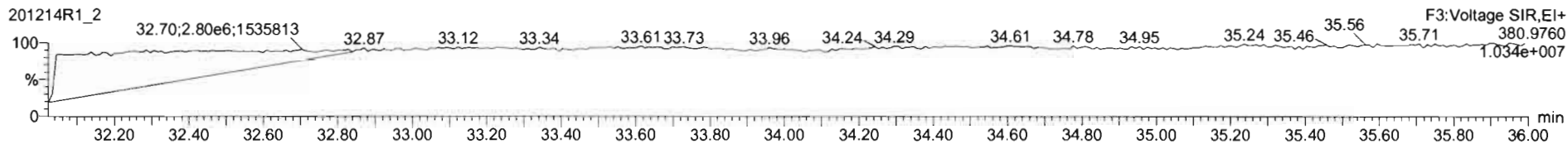
PFK1



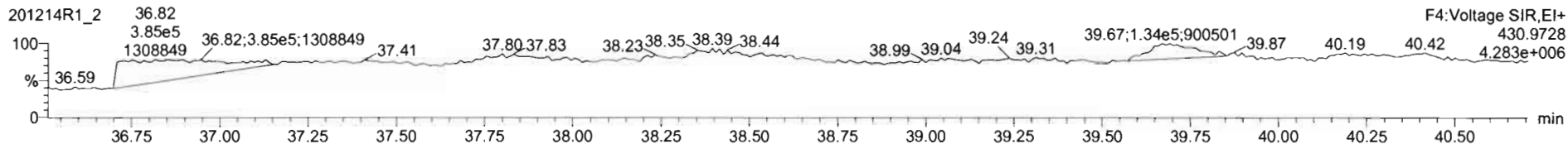
PFK2



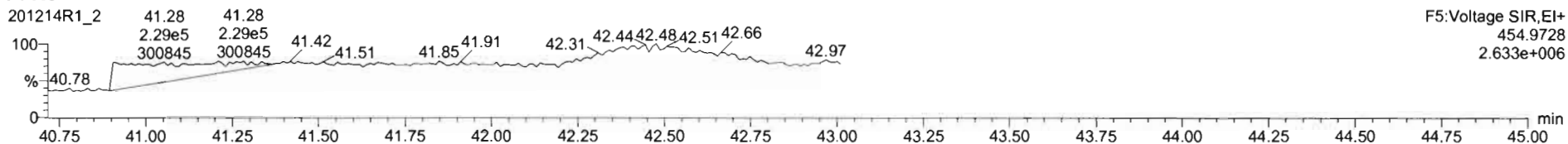
PFK3



PFK4

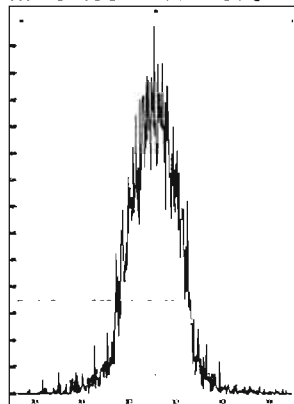


PFK5

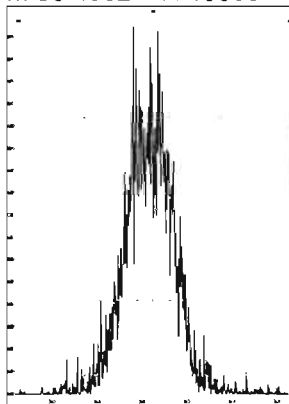


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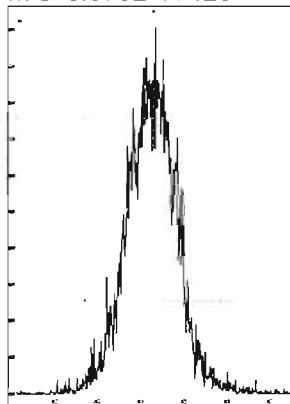
M 292.9824 R 14970



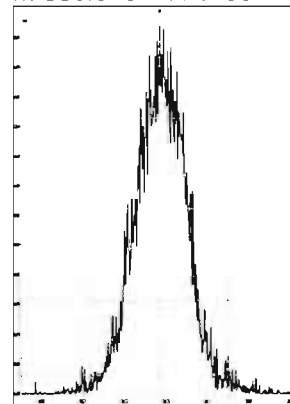
M 304.9824 R 15068



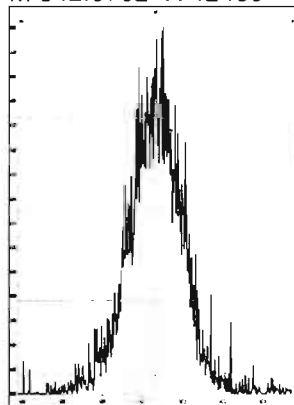
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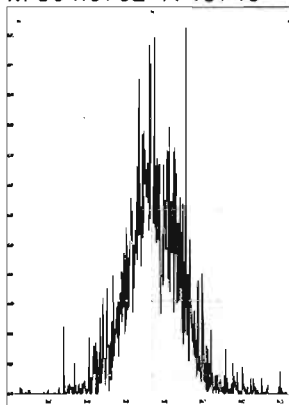
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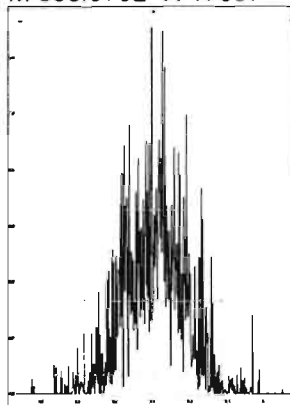
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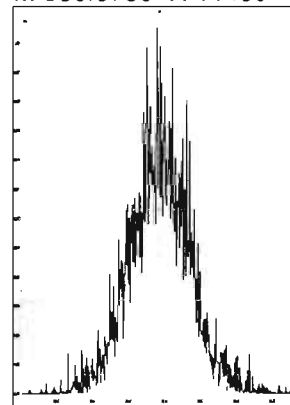
M 354.9792 R 13746



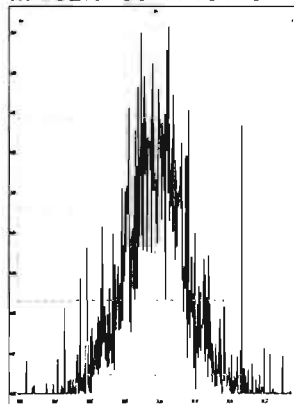
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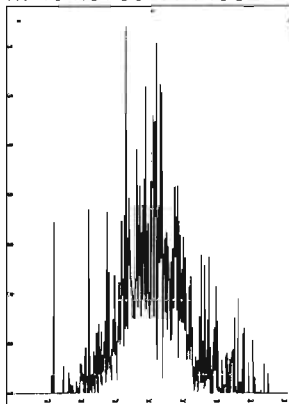
M 380.9760 R 11499



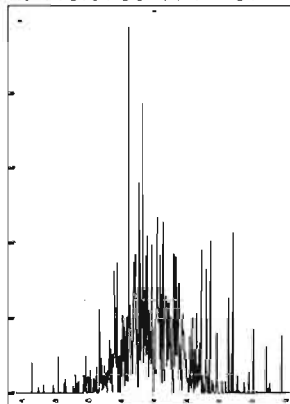
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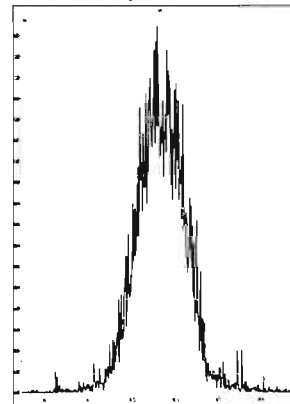
M 404.9760 R 14582



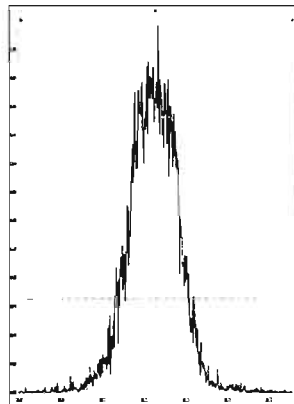
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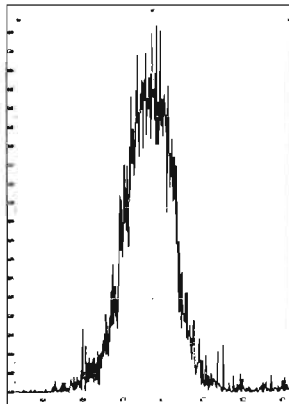
M 318.9792 R 14183



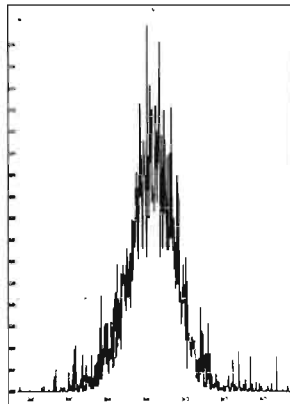
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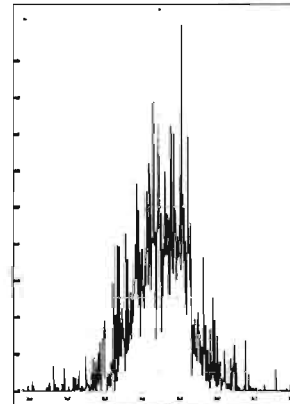
M 342.9792 R 13624



M 354.9792 R 13774

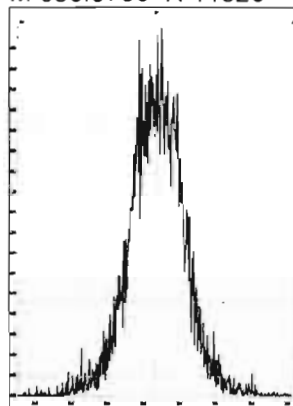


M 366.9792 R 16956

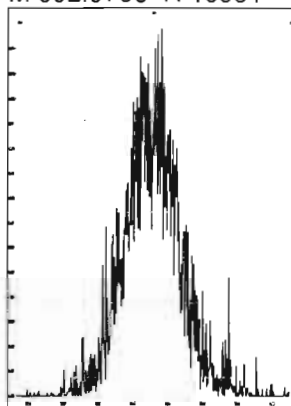


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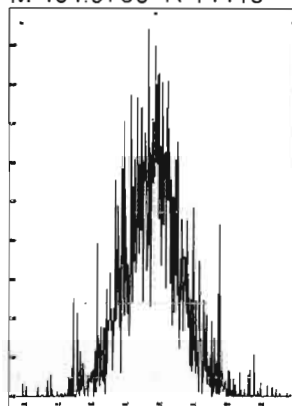
M 380.9760 R 11820



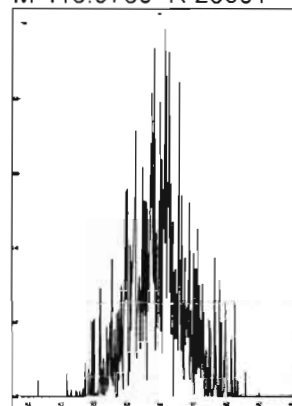
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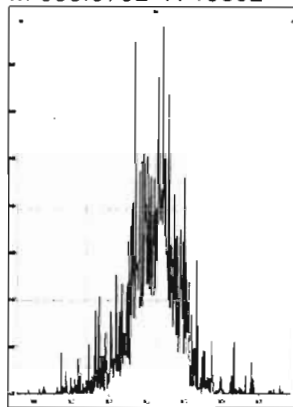
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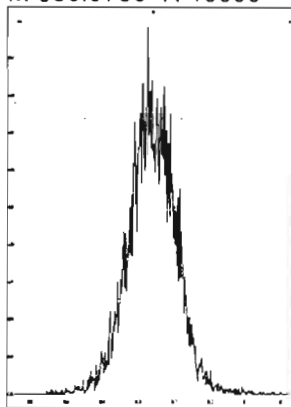
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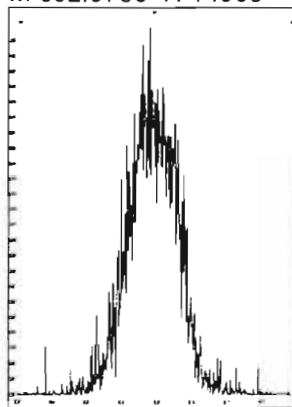
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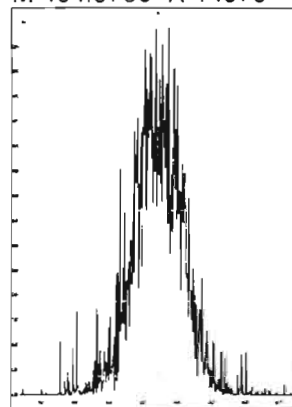
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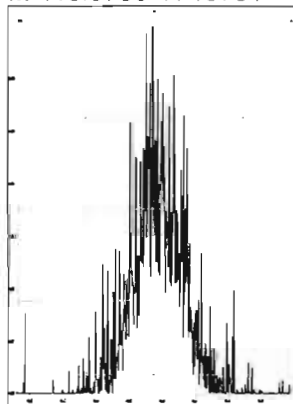
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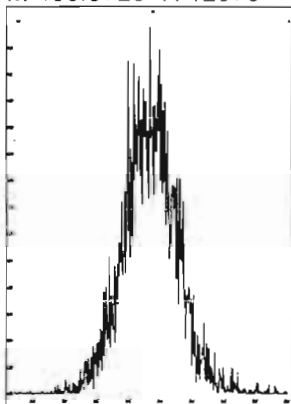
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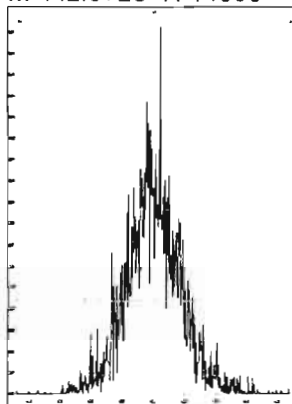
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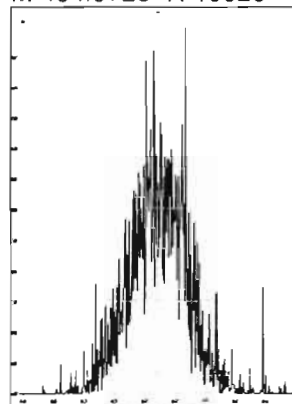
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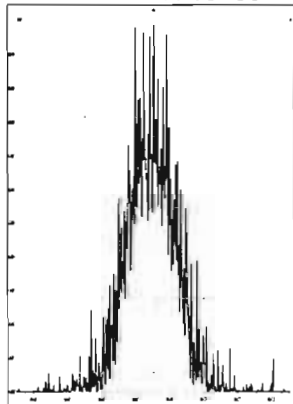
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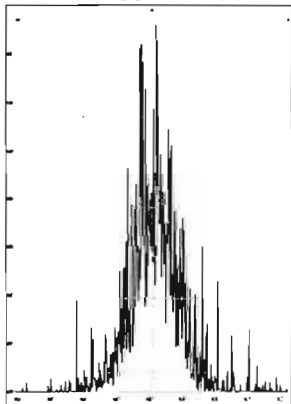
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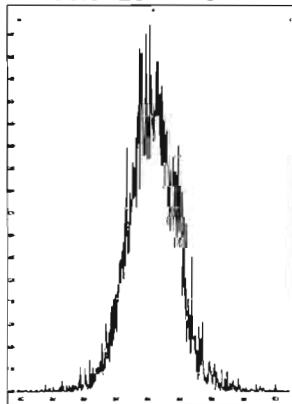
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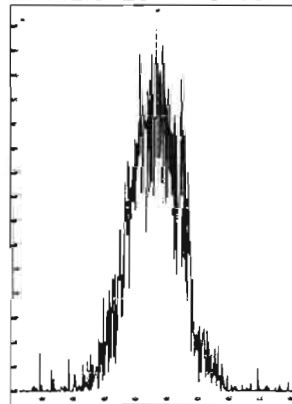
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M 430.9728 R 13476

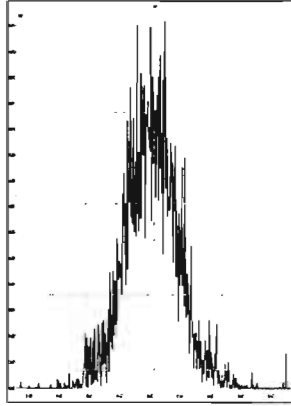


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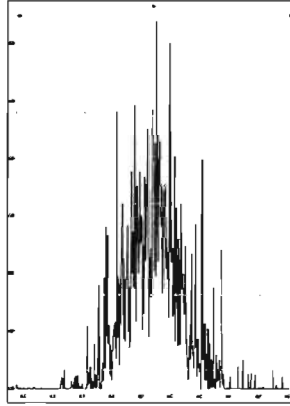


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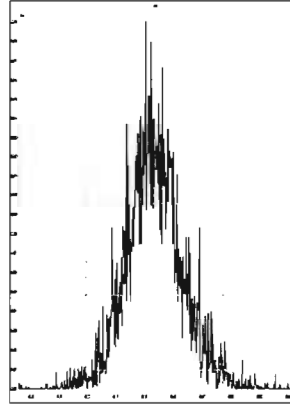
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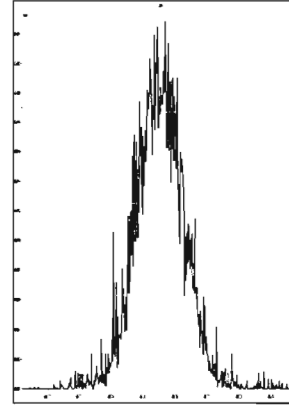
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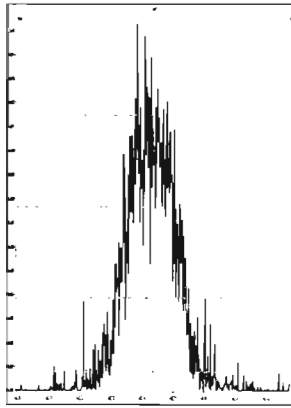
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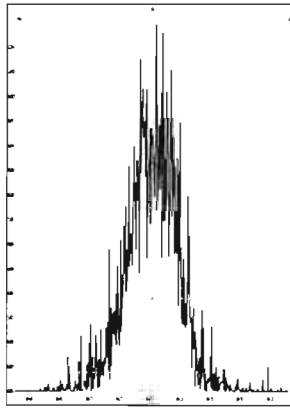
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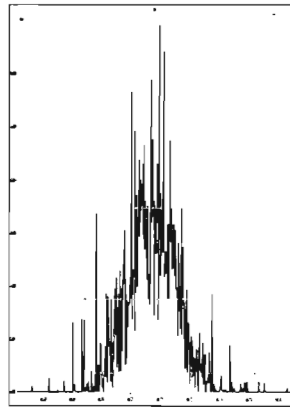
M 442.9728 R 14527



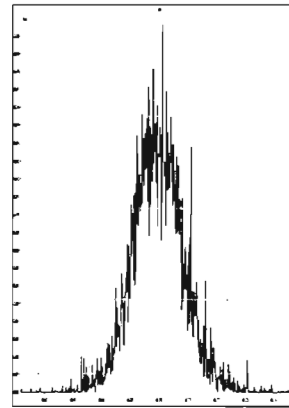
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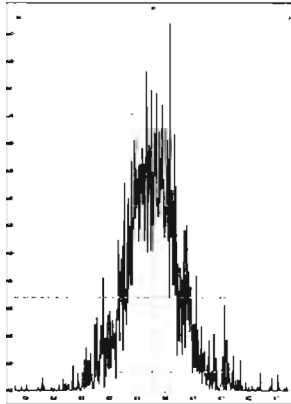
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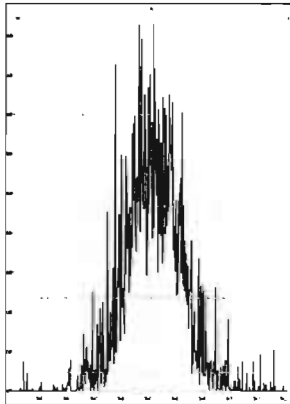
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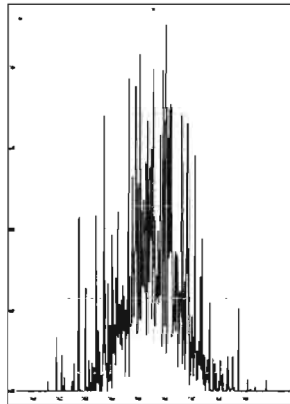
M 492.9696 R 13782



M 504.9696 R 14018



M 516.9697 R 17793



..... CALIBRATION STANDARDS REVIEW CHECKLIST

Begin Calibration ID: ST201215R2-1

Reviewed By: GRB 12/16/2020

Initials & Date

End Calibration ID: NA

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

Mass resolution ≥

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

Intergrated peaks display correctly?

GC Break <20%

8280 CS1 End Standard:

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

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

Comments:

Dataset: U:\VG12.PRO\Results\201215R2\201215R2_2.qld

Last Altered: Wednesday, December 16, 2020 7:02:10 AM Pacific Standard Time

Printed: Wednesday, December 16, 2020 8:43:34 AM Pacific Standard Time

HN 12/16/2020
GPB 12/16/2020

Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201215R2_2, Date: 15-Dec-2020, Time: 17:49:34, ID: ST201215R2_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

#	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	9.24e4	1.02e6	0.75	NO	0.980	26.37	26.36	NO	1.001	1.001	9.2713	92.7	NO
2	2 1,2,3,7,8-PeCDD	3.63e5	7.89e5	0.63	NO	0.932	31.05	31.03	NO	1.001	1.000	49.405	98.8	NO
3	3 1,2,3,4,7,8-HxCDD	2.93e5	5.61e5	1.23	NO	1.02	34.35	34.34	NO	1.001	1.000	51.256	103	NO
4	4 1,2,3,6,7,8-HxCDD	2.89e5	6.54e5	1.23	NO	0.902	34.47	34.46	NO	1.001	1.000	48.967	97.9	NO
5	5 1,2,3,7,8,9-HxCDD	2.93e5	6.39e5	1.22	NO	0.954	34.72	34.74	NO	1.000	1.001	48.046	96.1	NO
6	6 1,2,3,4,6,7,8-HpCDD	2.23e5	5.16e5	1.01	NO	0.918	38.19	38.19	NO	1.000	1.000	47.018	94.0	NO
7	7 OCDD	3.90e5	8.97e5	0.87	NO	0.866	41.09	41.10	NO	1.000	1.000	100.43	100	NO
8	8 2,3,7,8-TCDF	9.50e4	1.28e6	0.73	NO	0.848	25.66	25.67	NO	1.000	1.001	8.7235	87.2	NO
9	9 1,2,3,7,8-PeCDF	4.99e5	1.07e6	1.55	NO	0.960	29.77	29.78	NO	1.000	1.000	48.380	96.8	NO
10	10 2,3,4,7,8-PeCDF	5.14e5	9.94e5	1.53	NO	1.07	30.86	30.84	NO	1.001	1.000	48.412	96.8	NO
11	11 1,2,3,4,7,8-HxCDF	3.21e5	6.84e5	1.21	NO	0.986	33.43	33.44	NO	1.000	1.001	47.611	95.2	NO
12	12 1,2,3,6,7,8-HxCDF	3.37e5	6.78e5	1.22	NO	1.04	33.57	33.56	NO	1.001	1.000	47.907	95.8	NO
13	13 2,3,4,6,7,8-HxCDF	3.18e5	6.48e5	1.23	NO	1.02	34.23	34.23	NO	1.001	1.001	48.053	96.1	NO
14	14 1,2,3,7,8,9-HxCDF	2.73e5	5.75e5	1.22	NO	0.991	35.23	35.23	NO	1.000	1.000	47.936	95.9	NO
15	15 1,2,3,4,6,7,8-HpCDF	2.41e5	4.78e5	1.00	NO	1.05	36.80	36.80	NO	1.000	1.000	48.078	96.2	NO
16	16 1,2,3,4,7,8,9-HpCDF	2.33e5	4.07e5	1.00	NO	1.18	38.81	38.81	NO	1.000	1.000	48.626	97.3	NO
17	17 OCDF	3.94e5	9.05e5	0.87	NO	0.896	41.39	41.39	NO	1.000	1.000	97.235	97.2	NO
18	18 13C-2,3,7,8-TCDD	1.02e6	9.44e5	0.76	NO	1.06	26.34	26.33	NO	1.030	1.030	101.93	102	NO
19	19 13C-1,2,3,7,8-PeCDD	7.89e5	9.44e5	0.63	NO	0.785	31.17	31.02	NO	1.219	1.213	106.46	106	NO
20	20 13C-1,2,3,4,7,8-HxCDD	5.61e5	7.74e5	1.27	NO	0.621	34.32	34.33	NO	1.014	1.014	116.66	117	NO
21	21 13C-1,2,3,6,7,8-HxCDD	6.54e5	7.74e5	1.27	NO	0.734	34.44	34.45	NO	1.017	1.018	115.13	115	NO
22	22 13C-1,2,3,7,8,9-HxCDD	6.39e5	7.74e5	1.26	NO	0.723	34.72	34.71	NO	1.026	1.025	114.26	114	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.16e5	7.74e5	1.04	NO	0.568	38.22	38.18	NO	1.129	1.128	117.43	117	NO
24	24 13C-OCDD	8.97e5	7.74e5	0.89	NO	0.496	41.15	41.08	NO	1.216	1.214	233.52	117	NO
25	25 13C-2,3,7,8-TCDF	1.28e6	1.30e6	0.76	NO	0.919	25.64	25.65	NO	1.003	1.003	107.11	107	NO
26	26 13C-1,2,3,7,8-PeCDF	1.07e6	1.30e6	1.55	NO	0.715	29.89	29.77	NO	1.169	1.164	115.19	115	NO
27	27 13C-2,3,4,7,8-PeCDF	9.94e5	1.30e6	1.59	NO	0.689	30.97	30.84	NO	1.212	1.206	110.71	111	NO
28	28 13C-1,2,3,4,7,8-HxCDF	6.84e5	7.74e5	0.49	NO	0.873	33.42	33.42	NO	0.987	0.987	101.21	101	NO
29	29 13C-1,2,3,6,7,8-HxCDF	6.78e5	7.74e5	0.51	NO	0.933	33.55	33.55	NO	0.991	0.991	93.788	93.8	NO
30	30 13C-2,3,4,6,7,8-HxCDF	6.48e5	7.74e5	0.50	NO	0.843	34.22	34.21	NO	1.011	1.010	99.333	99.3	NO
31	31 13C-1,2,3,7,8,9-HxCDF	5.75e5	7.74e5	0.51	NO	0.780	35.22	35.22	NO	1.040	1.040	95.269	95.3	NO

Dataset: U:\VG12.PRO\Results\201215R2\201215R2_2.qld

Last Altered: Wednesday, December 16, 2020 7:02:10 AM Pacific Standard Time

Printed: Wednesday, December 16, 2020 8:43:34 AM Pacific Standard Time

Name: 201215R2_2, Date: 15-Dec-2020, Time: 17:49:34, ID: ST201215R2_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

	# 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	4.78e5	7.74e5	0.42	NO	0.726	36.79	36.78	NO	1.087	1.087	84.936	84.9	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.07e5	7.74e5	0.43	NO	0.491	38.80	38.79	NO	1.146	1.146	107.04	107	NO
34	34 13C-OCDF	9.05e5	7.74e5	0.87	NO	0.565	41.37	41.38	NO	1.222	1.222	206.81	103	NO
35	35 37Cl-2,3,7,8-TCDD	1.22e5	9.44e5			1.22	26.33	26.36	NO	1.030	1.031	10.599	106	NO
36	36 13C-1,2,3,4-TCDD	9.44e5	9.44e5	0.77	NO	1.00	25.64	25.57	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.30e6	1.30e6	0.77	NO	1.00	24.13	24.07	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	7.74e5	7.74e5	0.50	NO	1.00	33.92	33.85	NO	1.000	1.000	100.00	100	YES OK

Dataset: Untitled

Last Altered: Wednesday, December 16, 2020 6:57:06 AM Pacific Standard Time
Printed: Wednesday, December 16, 2020 6:57:13 AM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

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

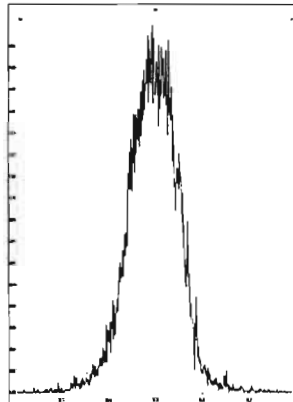
	Name	ID	Acq.Date	Acq.Time
1	201215R2_1	SOLVENT BLANK	15-Dec-20	17:05:18
2	201215R2_2	ST201215R2_1 1613 CS3 20L0301	15-Dec-20	17:49:34
3	201215R2_3	2002435-12 USMPDI-022SC-A-04-05-201108 ...	15-Dec-20	18:33:52
4	201215R2_4	2002435-13 USMPDI-022SC-A-05-06-201108 ...	15-Dec-20	19:18:07
5	201215R2_5	2002535-01 USMPDI-009SC-A-03-04-201112 ...	15-Dec-20	20:02:21
6	201215R2_6	2002535-02 USMPDI-009SC-A-04-05-201112 ...	15-Dec-20	20:46:37
7	201215R2_7	2002535-03 USMPDI-009SC-A-05-06-201112 ...	15-Dec-20	21:30:52
8	201215R2_8	2002535-04 USMPDI-009SC-A-06-07-201112 ...	15-Dec-20	22:15:06
9	201215R2_9	2002535-05 USMPDI-1009SC-A-04-05-20111...	15-Dec-20	22:59:21
10	201215R2_10	2002493-01 USMPDI-012SC-A-01-02-201109 ...	15-Dec-20	23:43:35
11	(A) 201215R2_11	2002493-02 USMPDI-012SC-A-02-03-201109 ...	16-Dec-20	00:27:50

(A) Instrument paused end rez check manually processed HN 12/16/2020

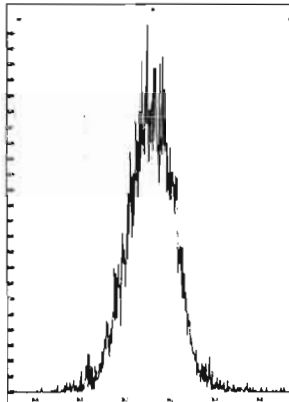
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, December 15, 2020 16:56:12 Pacific Standard Time

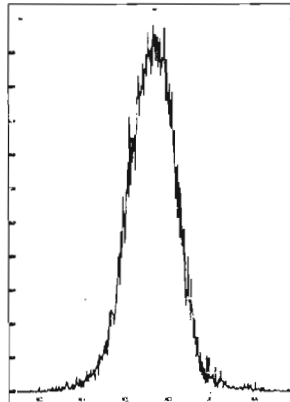
M 292.9824 R 12689



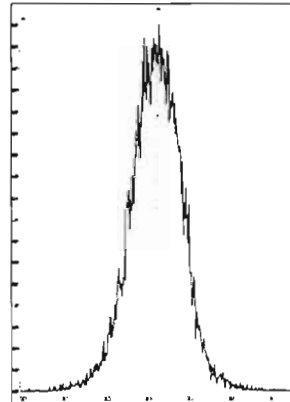
M 304.9824 R 13160



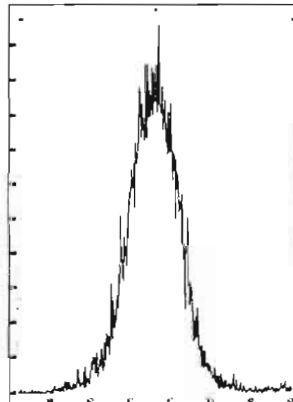
M 318.9792 R 13440



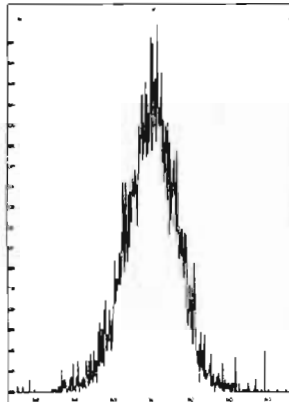
M 330.9792 R 11734



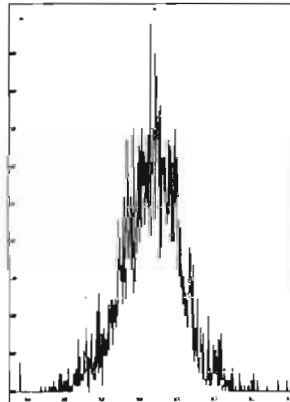
M 342.9792 R 11211



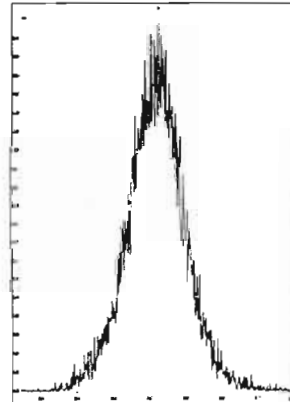
M 354.9792 R 13366



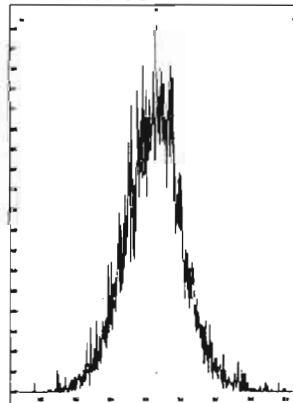
M 366.9792 R 13369



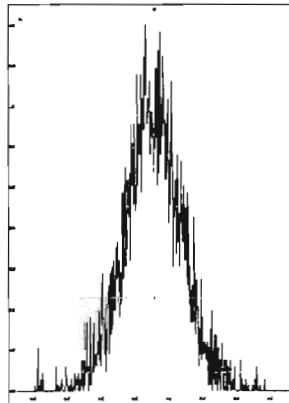
M 380.9760 R 11060



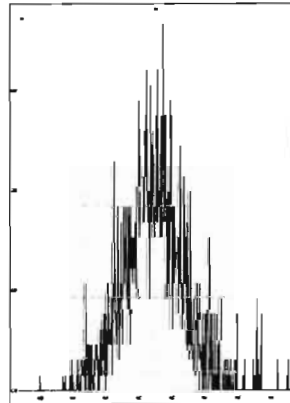
M 392.9760 R 10461



M 404.9760 R 11736



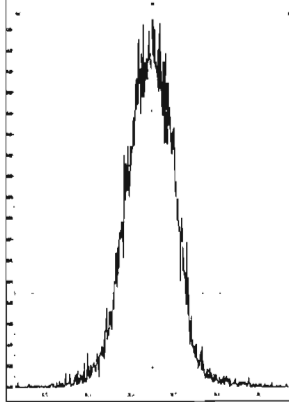
M 416.9760 R 14126



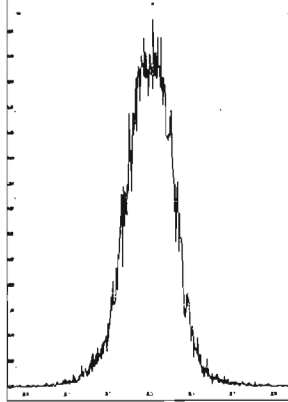
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Tuesday, December 15, 2020 16:56:56 Pacific Standard Time

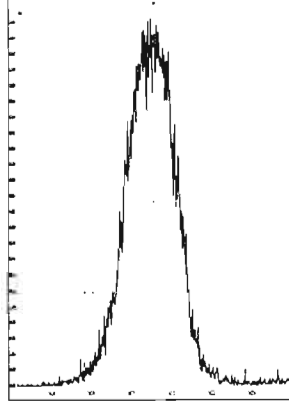
M 318.9792 R 13088



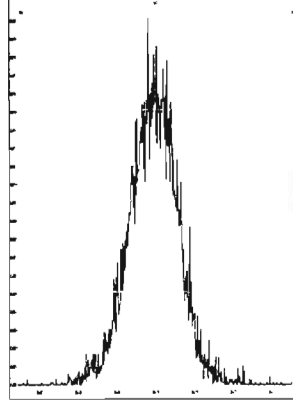
M 330.9792 R 12565



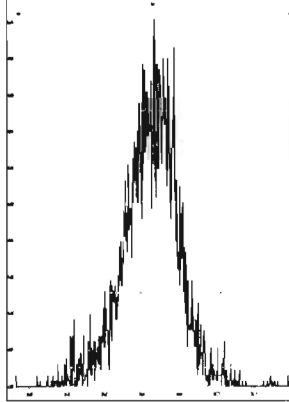
M 342.9792 R 12690



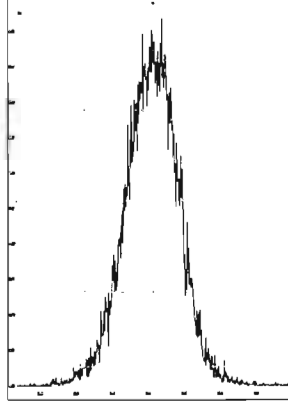
M 354.9792 R 13444



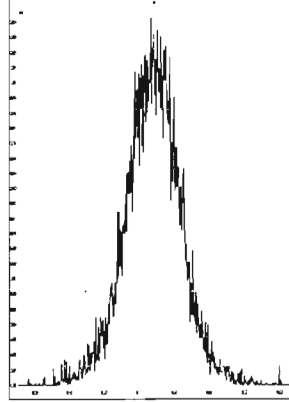
M 366.9792 R 12438



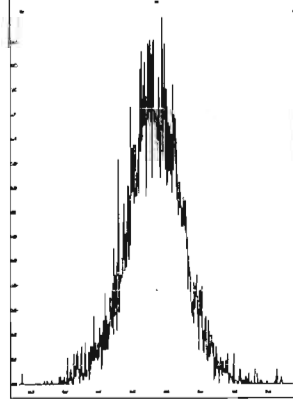
M 380.9760 R 11572



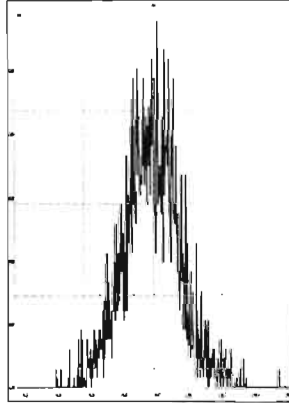
M 392.9760 R 11958



M 404.9760 R 11110



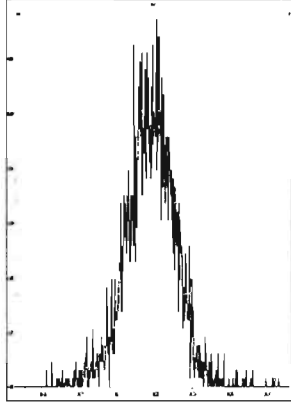
M 416.9760 R 13737



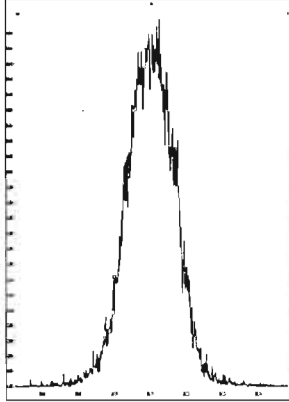
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Tuesday, December 15, 2020 16:57:40 Pacific Standard Time

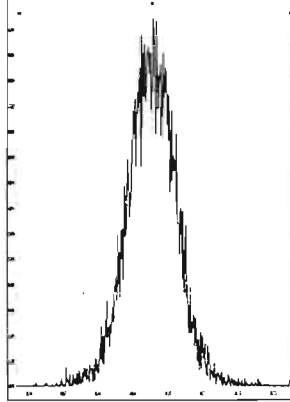
M 366.9792 R 17002



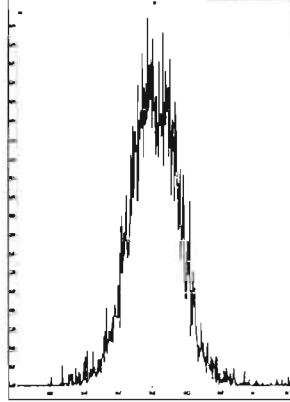
M 380.9760 R 13369



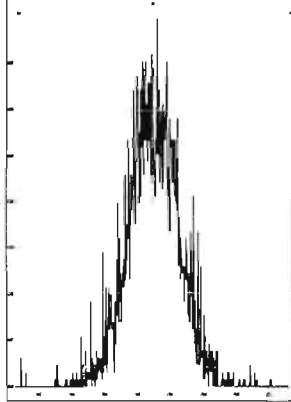
M 392.9760 R 12818



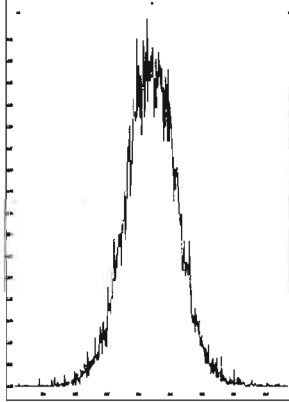
M 404.9760 R 13158



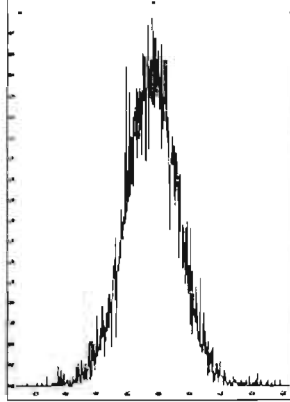
M 416.9760 R 13659



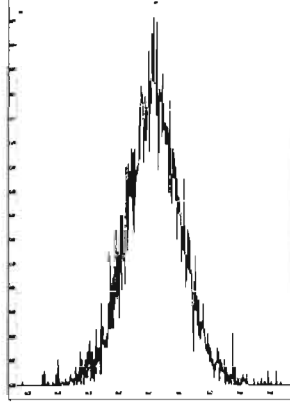
M 430.9728 R 11262



M 442.9728 R 11847



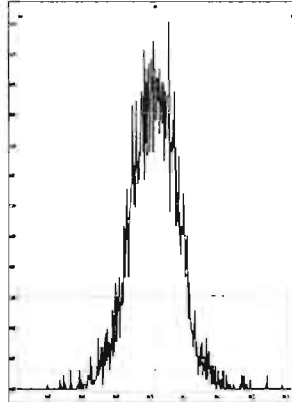
M 454.9728 R 12316



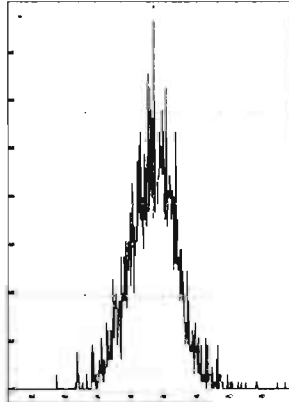
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Tuesday, December 15, 2020 16:58:31 Pacific Standard Time

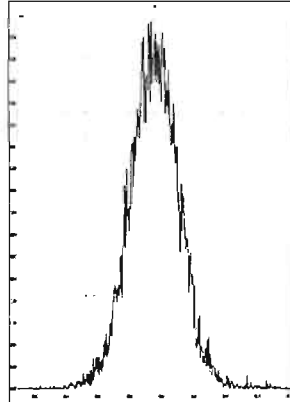
M 404.9760 R 13370



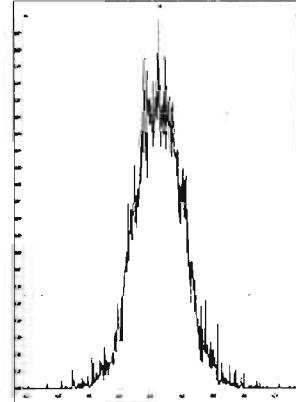
M 416.9760 R 14203



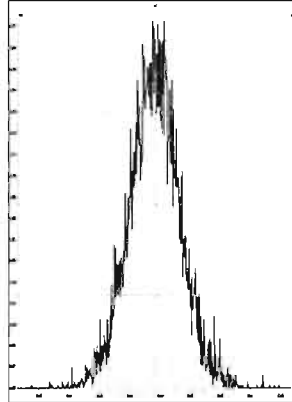
M 430.9728 R 12560



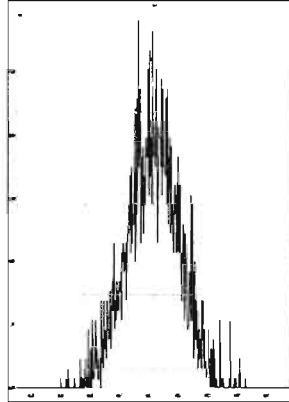
M 442.9728 R 12194



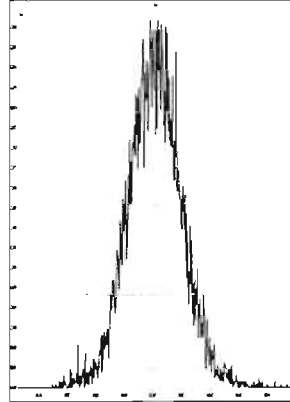
M 454.9728 R 13086



M 466.9728 R 12626



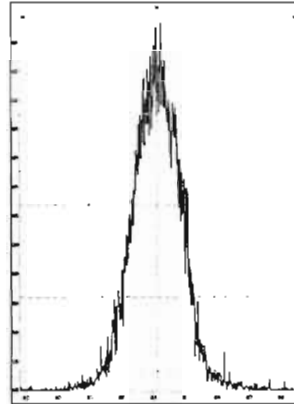
M 480.9696 R 11794



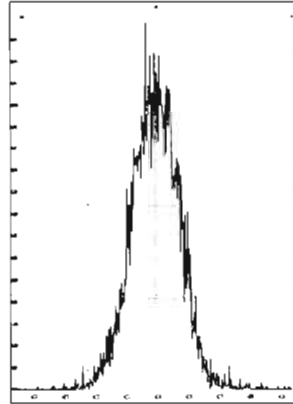
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Printed: Tuesday, December 15, 2020 16:59:22 Pacific Standard Time

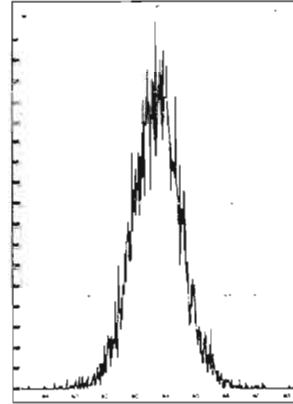
M 430.9728 R 12755



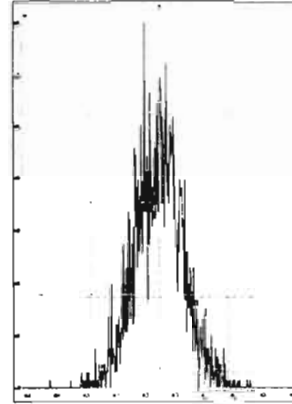
M 442.9728 R 13087



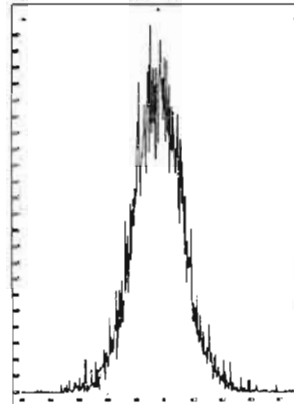
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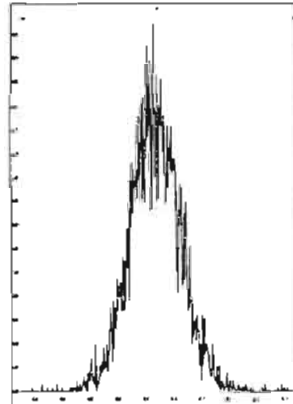
M 466.9728 R 15628



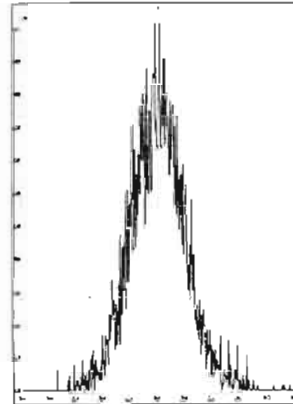
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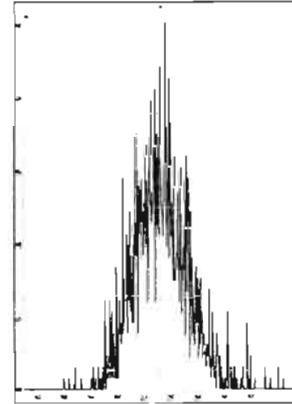
M 492.9696 R 13368



M 504.9696 R 11259



M 516.9697 R 12500



Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Wednesday, December 16, 2020 7:09:30 AM Pacific Standard Time

Printed: Wednesday, December 16, 2020 7:09:42 AM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 11 Dec 2020 14:14:32

Calibration: U:\VG12.PRO\CurveDB\ldbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201215R2_2, Date: 15-Dec-2020, Time: 17:49:34, ID: ST201215R2_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

#	Name	RT
1	1 1,3,6,8-TCDD (First)	22.55
2	2 1,2,8,9-TCDD (Last)	27.25
3	3 1,2,4,7,9-PeCDD (First)	28.79
4	4 1,2,3,8,9-PeCDD (Last)	31.39
5	5 1,2,4,6,7,9-HxCDD (First)	32.70
6	6 1,2,3,7,8,9-HxCDD (Last)	34.73
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.17
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.19
9	9 1,3,6,8-TCDF (First)	20.29
10	10 1,2,8,9-TCDF (Last)	27.56
11	11 1,3,4,6,8-PeCDF (First)	27.13
12	12 1,2,3,8,9-PeCDF (Last)	31.76
13	13 1,2,3,4,6,8-HxCDF (First)	32.17
14	14 1,2,3,7,8,9-HxCDF (Last)	35.23
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.80
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.81

Dataset: Untitled

Last Altered: Wednesday, December 16, 2020 7:09:30 AM Pacific Standard Time
Printed: Wednesday, December 16, 2020 7:09:42 AM Pacific Standard Time

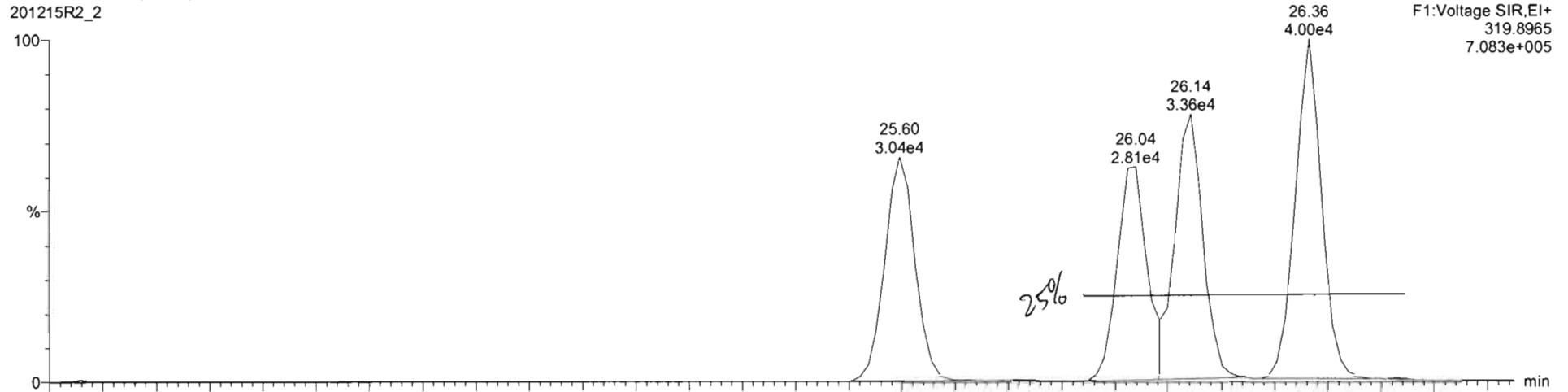
Method: U:\VG12.PRO\MethDB\CPSM.mdb 11 Dec 2020 14:14:32
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HN 12/16/2020
GRB 12/16/2020

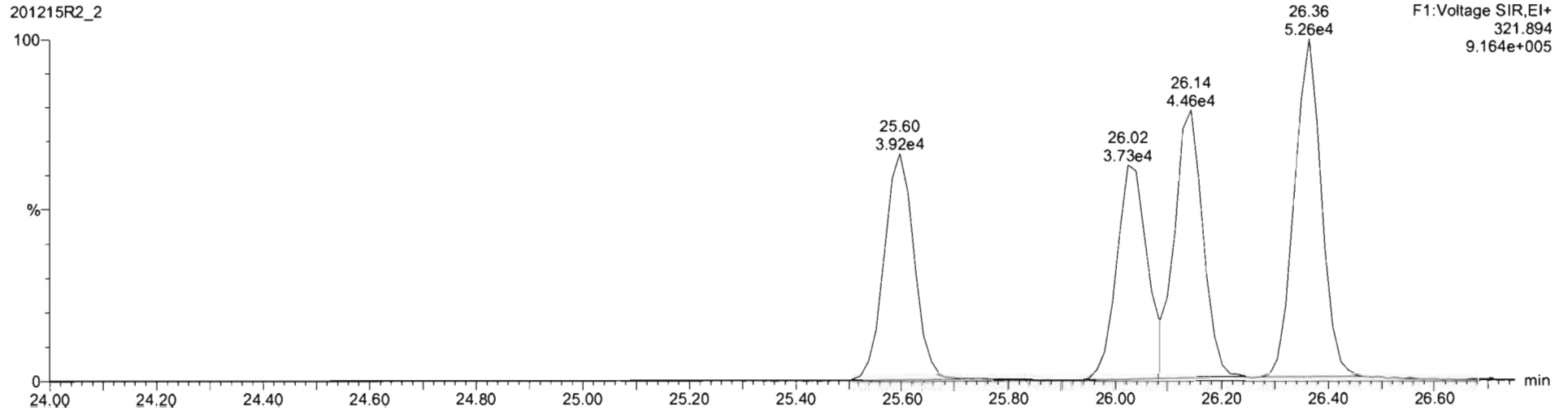
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1,3,6,8-TCDD (First)

201215R2_2



201215R2_2



Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Wednesday, December 16, 2020 7:09:30 AM Pacific Standard Time

Printed: Wednesday, December 16, 2020 7:09:42 AM Pacific Standard Time

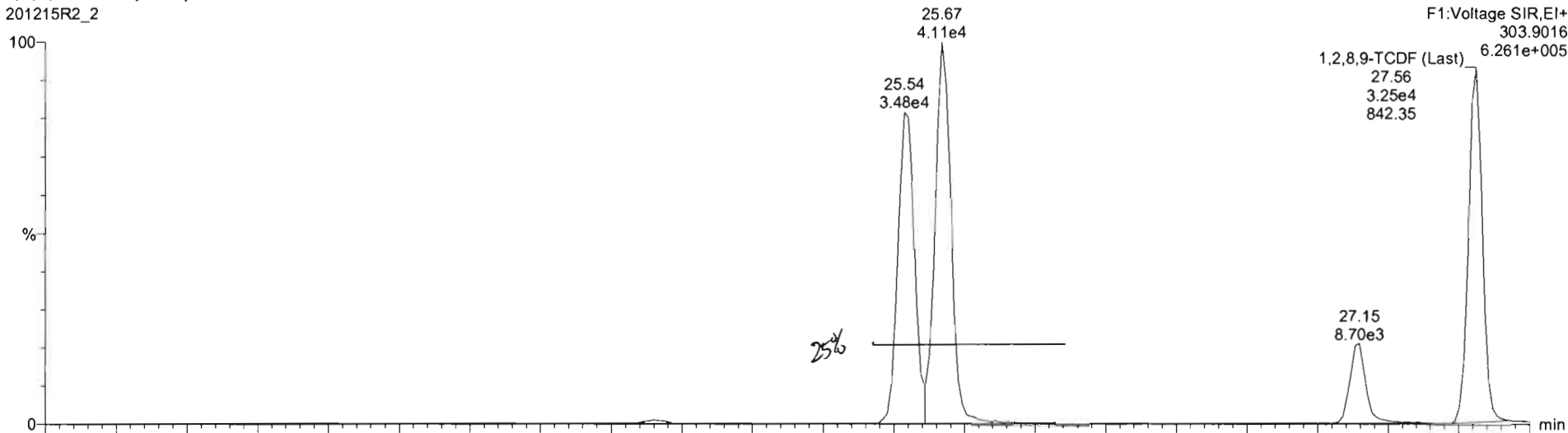
FIN 12/16/2020

GRB 12/10/2020

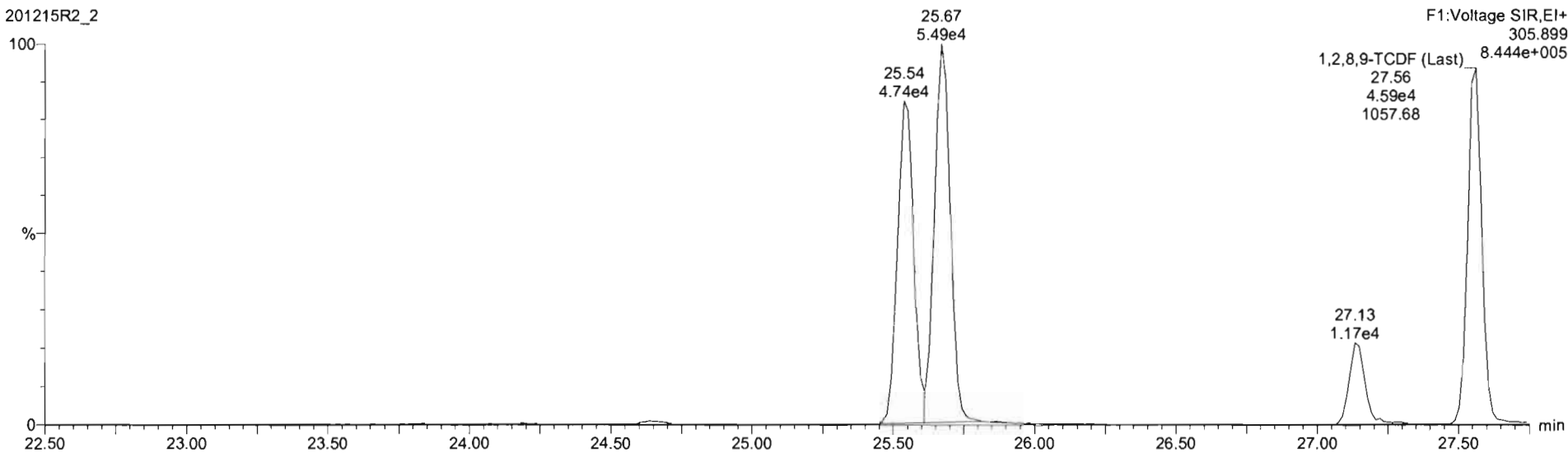
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1,3,6,8-TCDF (First)

201215R2_2



201215R2_2



Dataset: Untitled

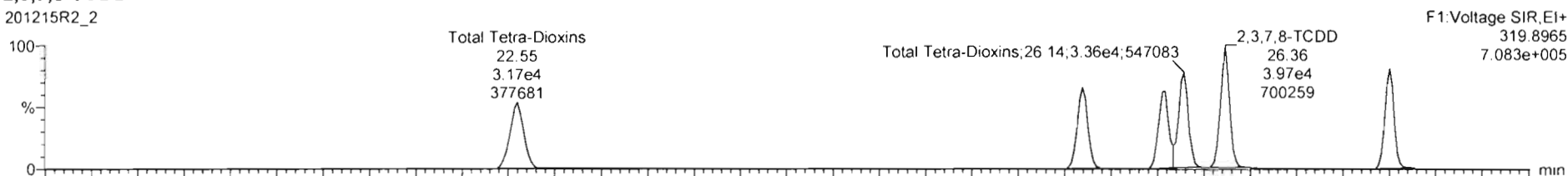
Last Altered: Wednesday, December 16, 2020 7:03:00 AM Pacific Standard Time
Printed: Wednesday, December 16, 2020 7:03:15 AM Pacific Standard Time

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Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

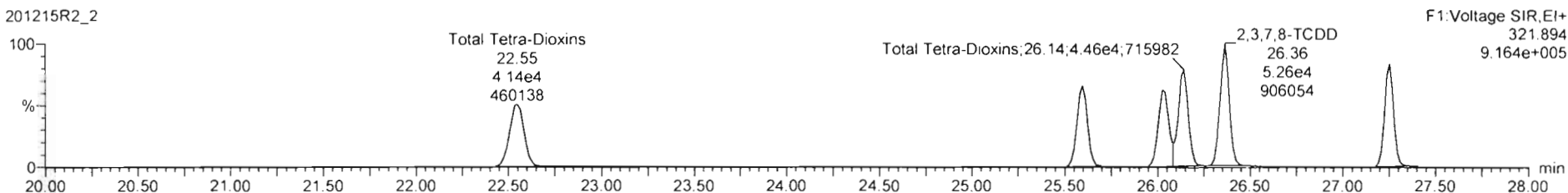
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2,3,7,8-TCDD

201215R2_2

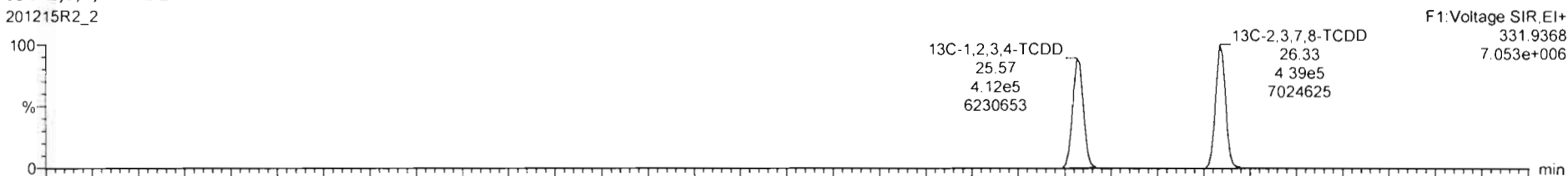


201215R2_2

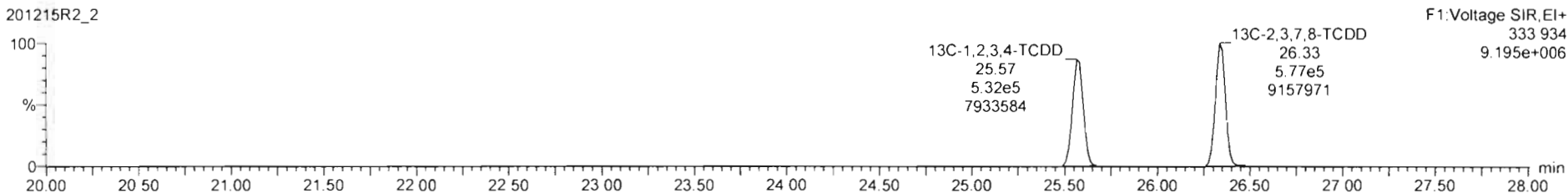


13C-2,3,7,8-TCDD

201215R2_2



201215R2_2

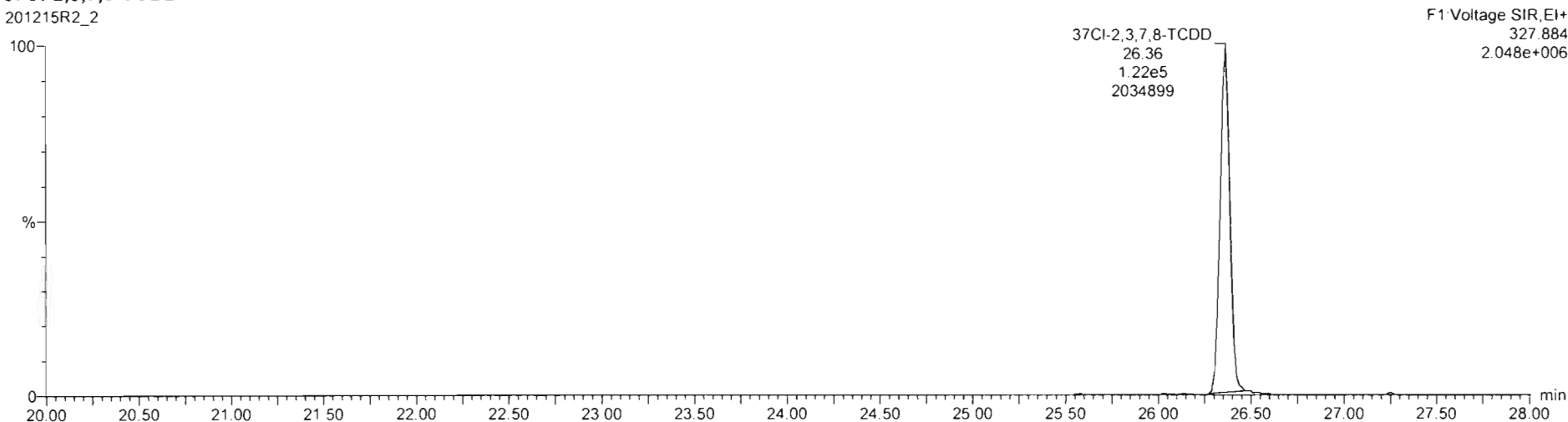


Dataset: Untitled

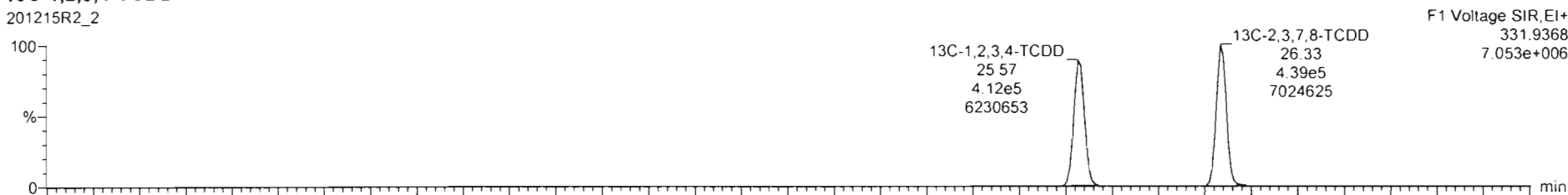
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Name: 201215R2_2, Date: 15-Dec-2020, Time: 17:49:34, ID: ST201215R2_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

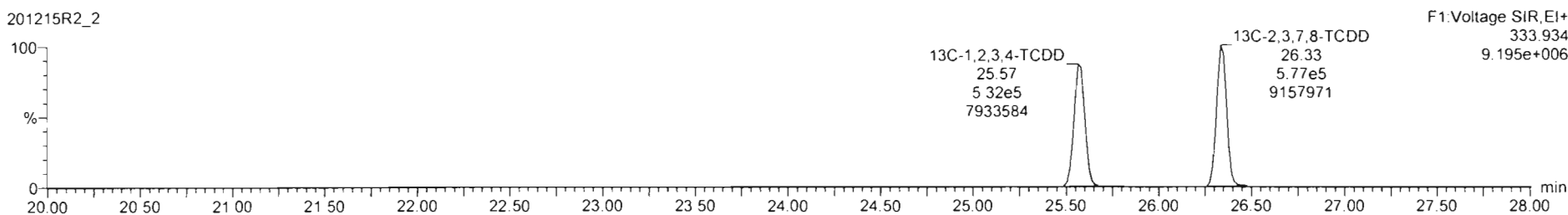
37Cl-2,3,7,8-TCDD
201215R2_2



13C-1,2,3,4-TCDD
201215R2_2



201215R2_2



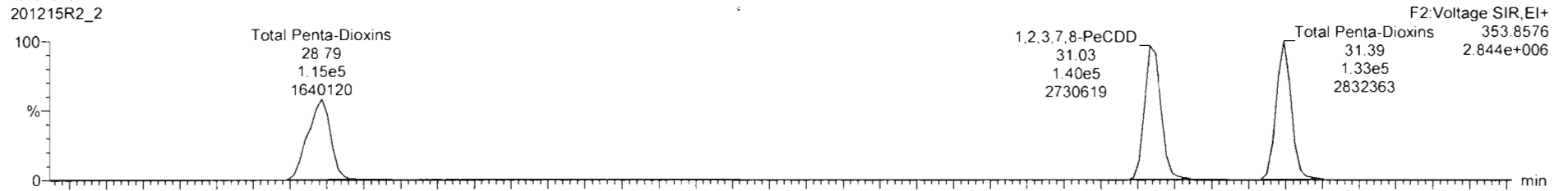
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Printed: Wednesday, December 16, 2020 7:03:15 AM Pacific Standard Time

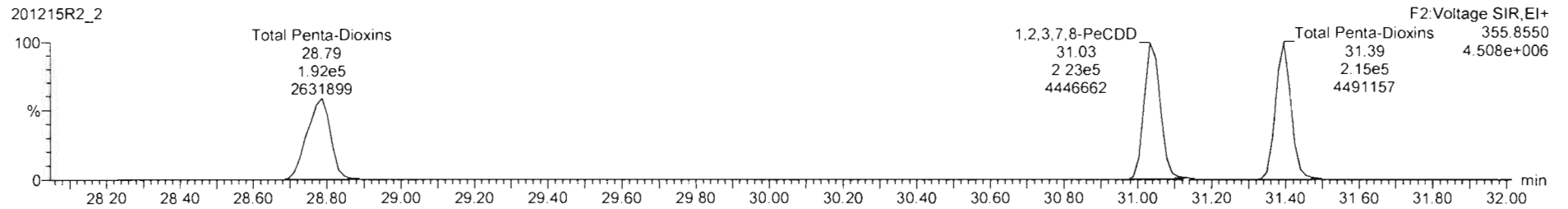
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1,2,3,7,8-PeCDD

201215R2_2

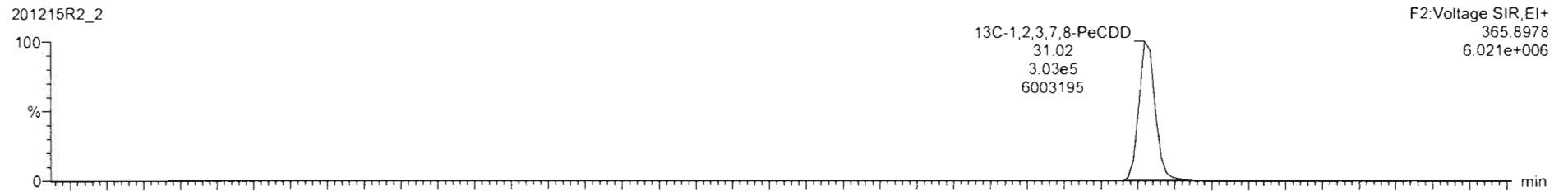


201215R2_2

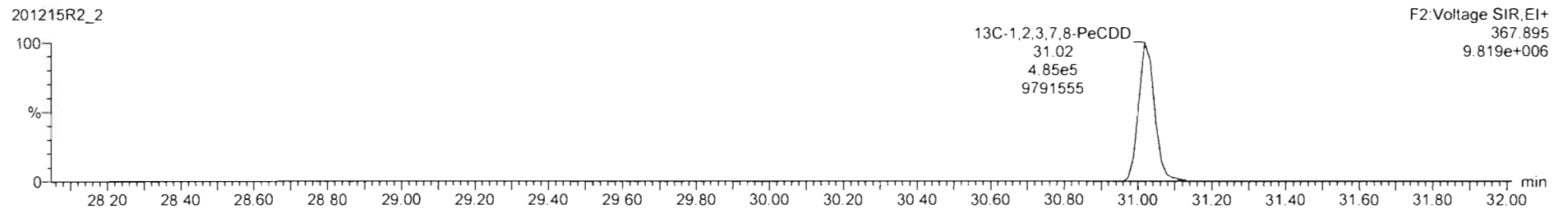


13C-1,2,3,7,8-PeCDD

201215R2_2



201215R2_2



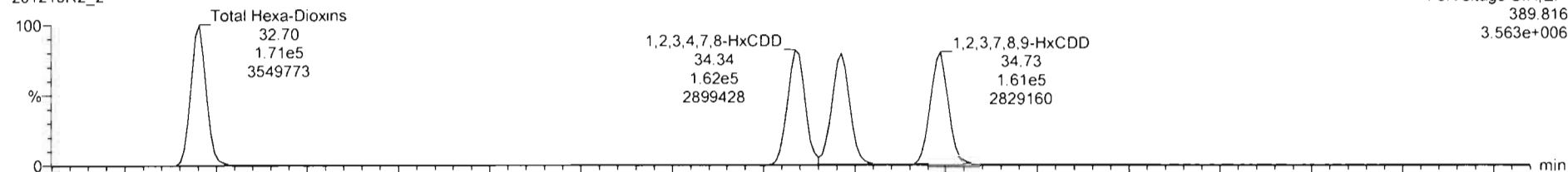
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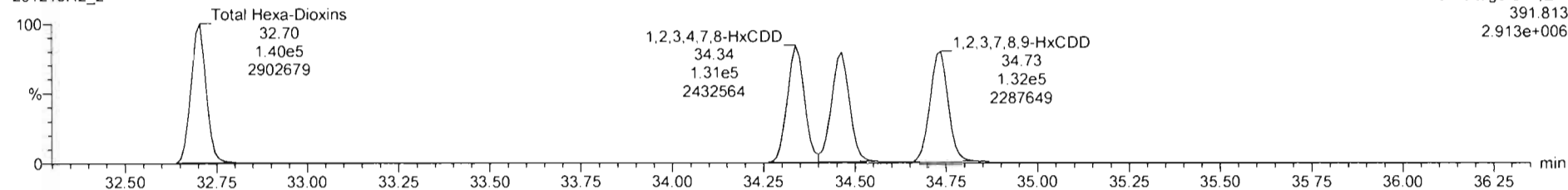
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1,2,3,4,7,8-HxCDD

201215R2_2

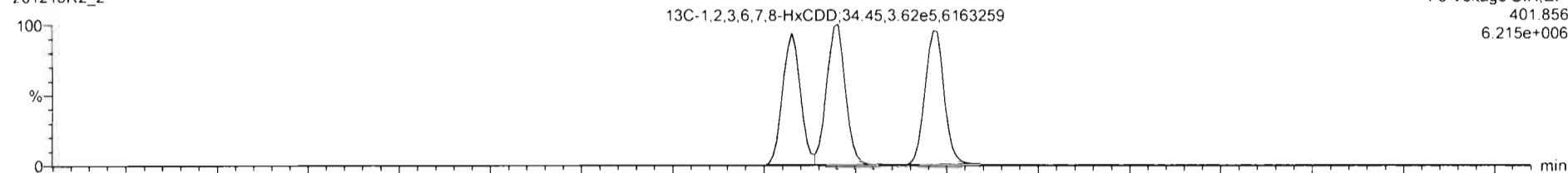


201215R2_2

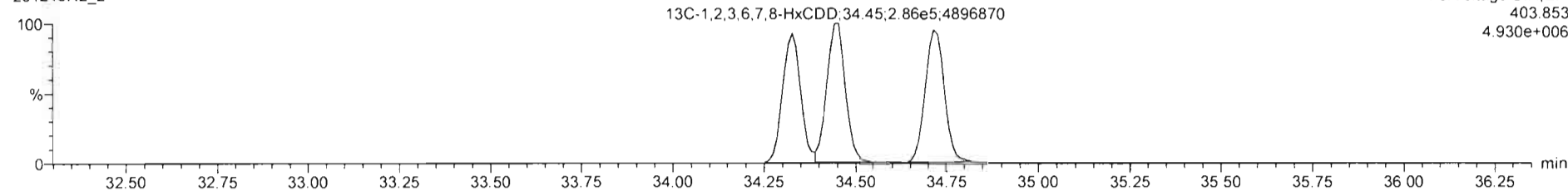


13C-1,2,3,4,7,8-HxCDD

201215R2_2

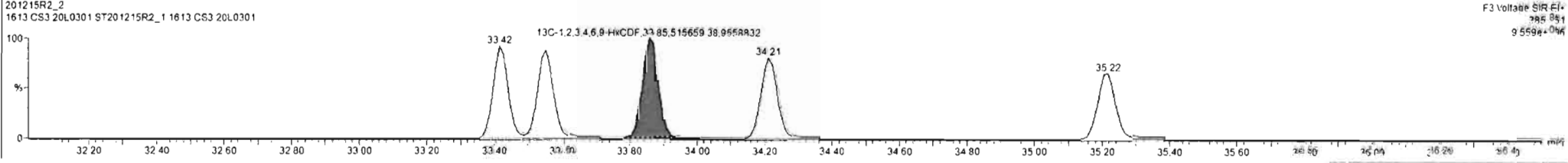
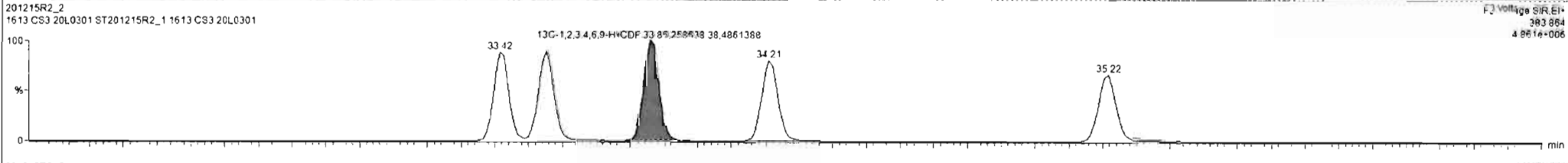
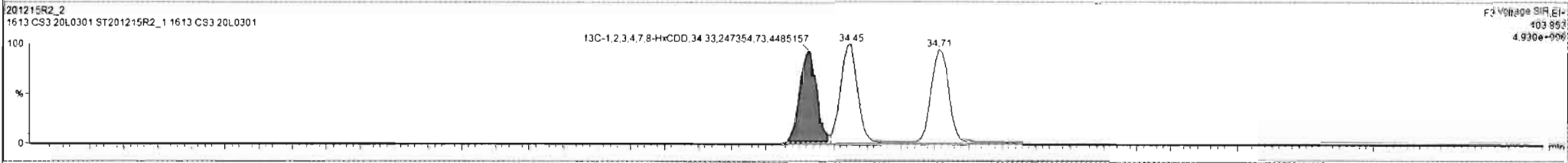
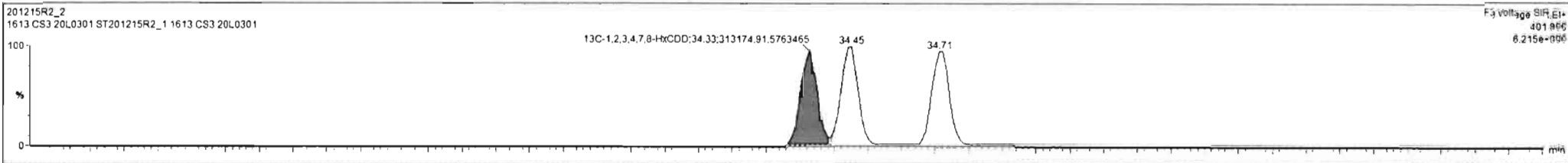


201215R2_2

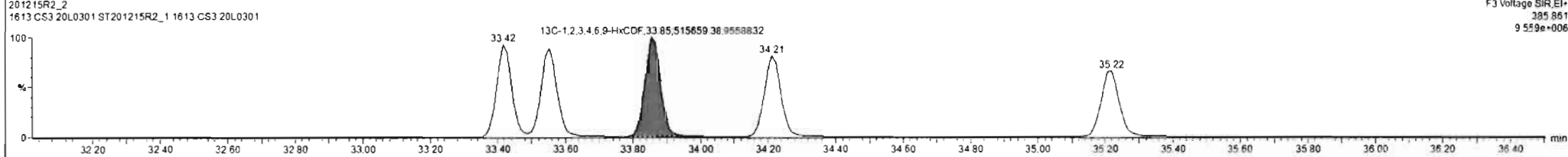
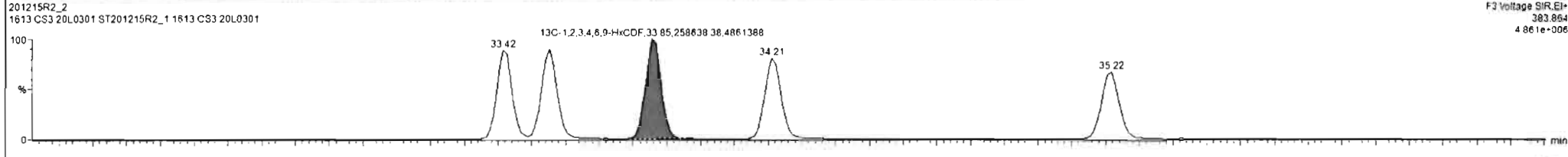
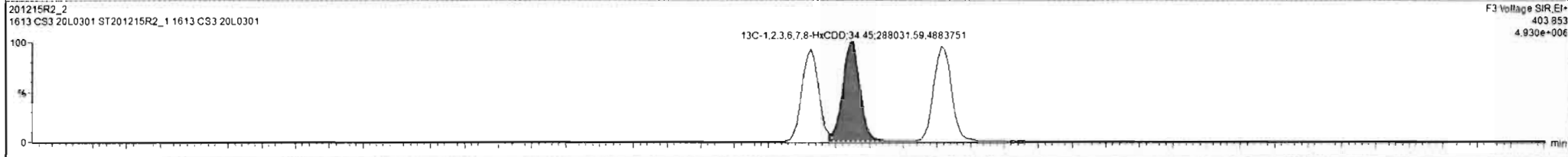
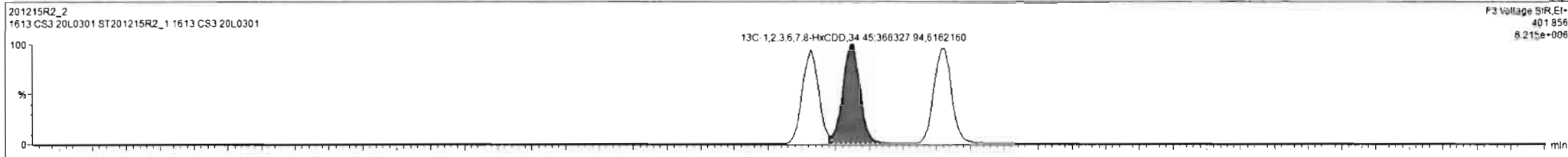


201215R2_2 - ST201215R2_1 1613 CS3 20L0301 - 1613 CS3 20L0301

#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
20	13C-1,2,3,4,7,8-HxCDD	5.61e5	7.74e5	1.24	1.27	NO	0.6205	34.32	34.33	NO	1.014	1.014	117	117	NO
21	13C-1,2,3,6,7,8-HxCDD	6.54e5	7.74e5	1.24	1.27	NO	0.7340	34.44	34.45	NO	1.017	1.018	115	115	NO
22	13C-1,2,3,7,8,9-HxCDD	6.39e5	7.74e5	1.24	1.26	NO	0.7228	34.72	34.71	NO	1.026	1.025	114	114	NO
23	13C-1,2,3,4,6,7,8-HpCDD	5.16e5	7.74e5	1.04	1.04	NO	0.5677	38.22	38.18	NO	1.129	1.128	117	117	NO
24	13C-OCDD	8.97e5	7.74e5	0.89	0.89	NO	0.4958	41.15	41.08	NO	1.216	1.214	234	117	NO
25	13C-2,3,7,8-TCDF	1.28e6	1.30e6	0.77	0.76	NO	0.9190	25.84	25.85	NO	1.003	1.003	107	107	NO



#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
20	13C-1,2,3,4,7,8-HxCDD	5.61e5	7.74e5	1.24	1.27	NO	0.6205	34.32	34.33	NO	1.014	1.014	117	117	NO
21	13C-1,2,3,6,7,8-HxCDD	6.54e5	7.74e5	1.24	1.27	NO	0.7340	34.44	34.45	NO	1.017	1.018	115	115	NO
22	13C-1,2,3,7,8,9-HxCDD	6.39e5	7.74e5	1.24	1.26	NO	0.7226	34.72	34.71	NO	1.026	1.025	114	114	NO
23	13C-1,2,3,4,6,7,8-HxCDD	5.16e5	7.74e5	1.04	1.04	NO	0.5677	38.22	38.18	NO	1.129	1.128	117	117	NO
24	13C-OCDD	8.97e5	7.74e5	0.89	0.89	NO	0.4953	41.15	41.08	NO	1.216	1.214	234	117	NO
25	13C-2,3,7,8-TCDF	1.28e6	1.30e6	0.77	0.76	NO	0.9190	25.84	25.65	NO	1.003	1.003	107	107	NO



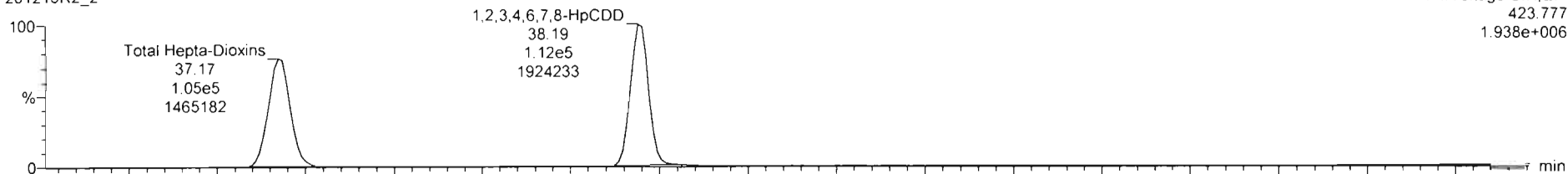
Dataset: Untitled

Last Altered: Wednesday, December 16, 2020 7:03:00 AM Pacific Standard Time
Printed: Wednesday, December 16, 2020 7:03:15 AM Pacific Standard Time

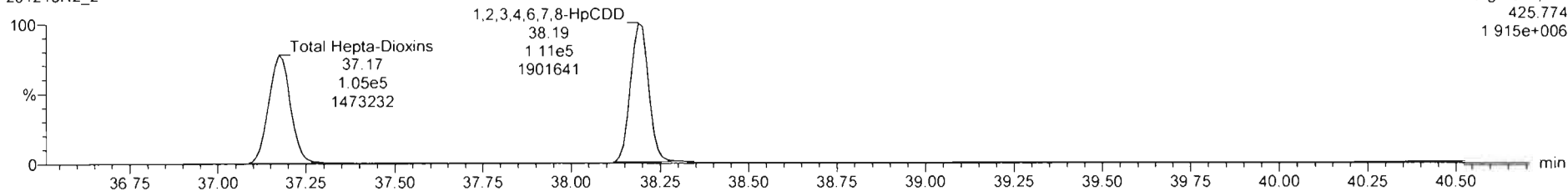
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1,2,3,4,6,7,8-HpCDD

201215R2_2

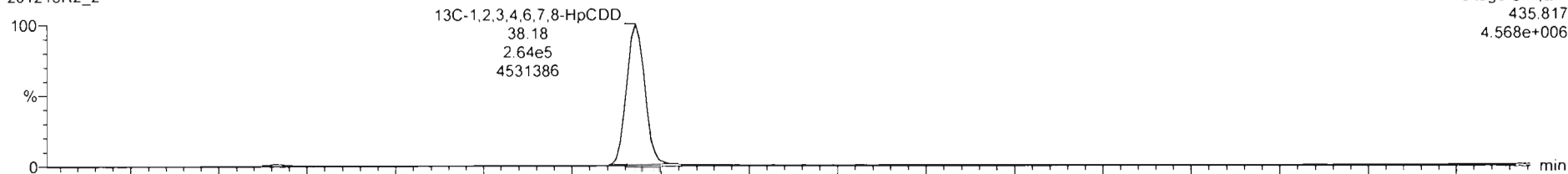


201215R2_2

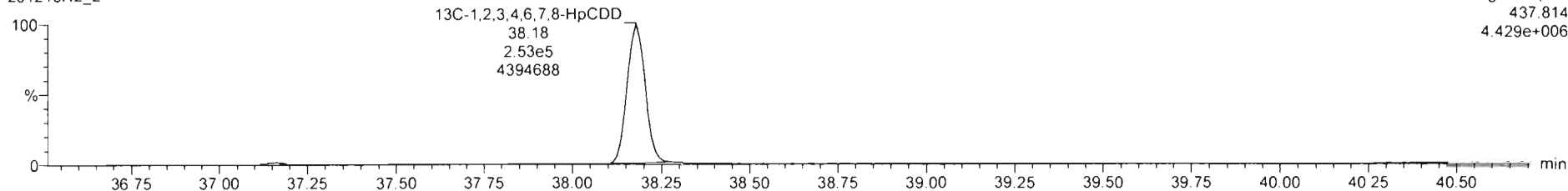


13C-1,2,3,4,6,7,8-HpCDD

201215R2_2



201215R2_2



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Printed: Wednesday, December 16, 2020 7:03:15 AM Pacific Standard Time

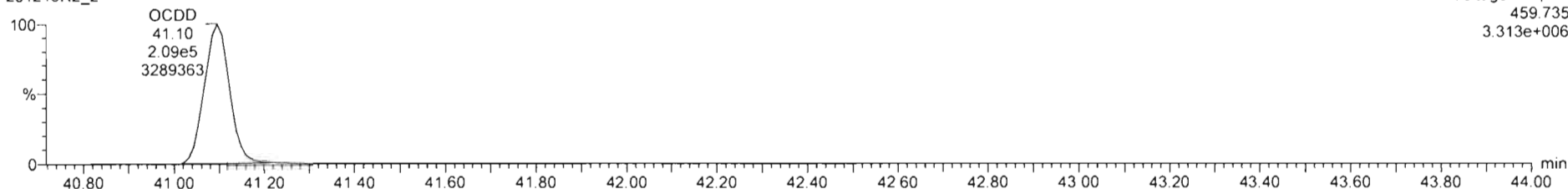
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OCDD

201215R2_2

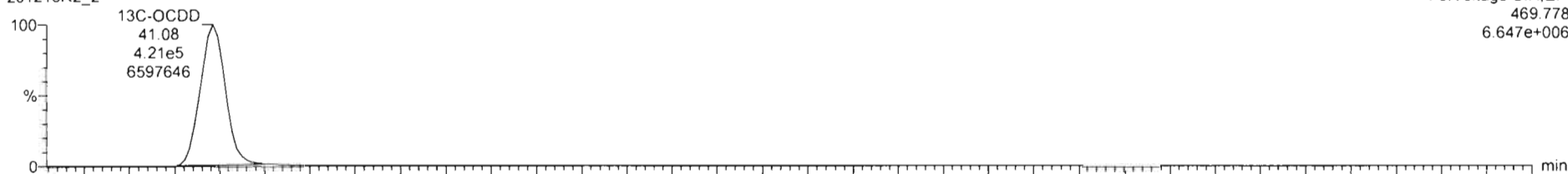


201215R2_2

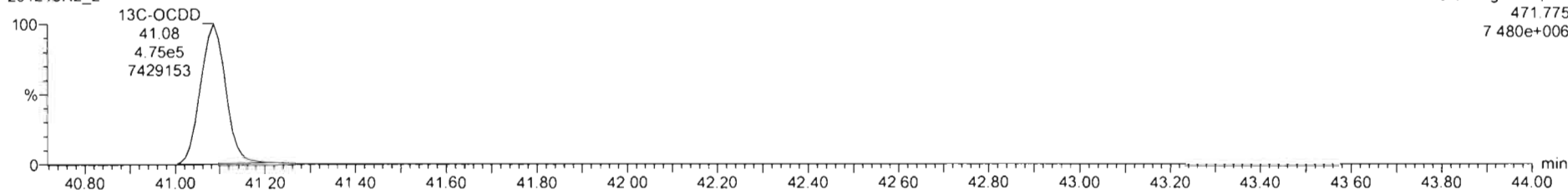


13C-OCDD

201215R2_2



201215R2_2



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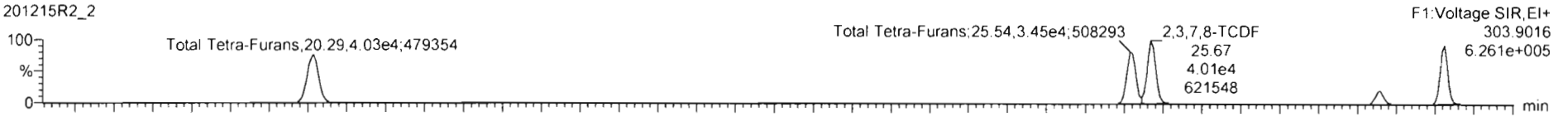
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Printed: Wednesday, December 16, 2020 7:03:15 AM Pacific Standard Time

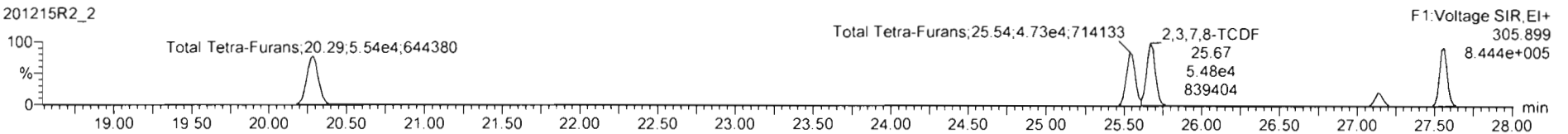
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2,3,7,8-TCDF

201215R2_2

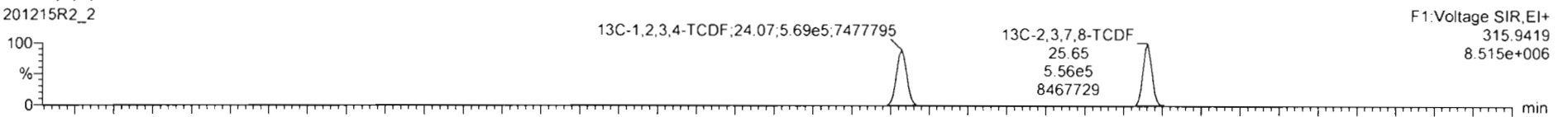


201215R2_2

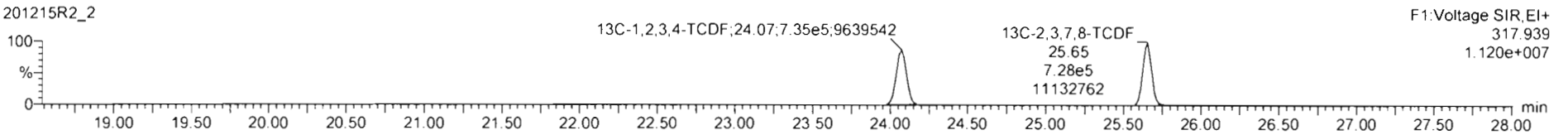


13C-2,3,7,8-TCDF

201215R2_2

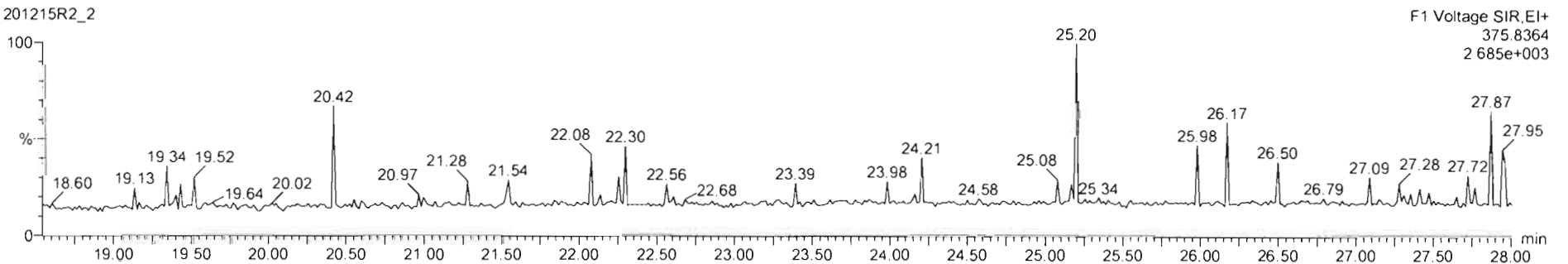


201215R2_2



DPE1

201215R2_2



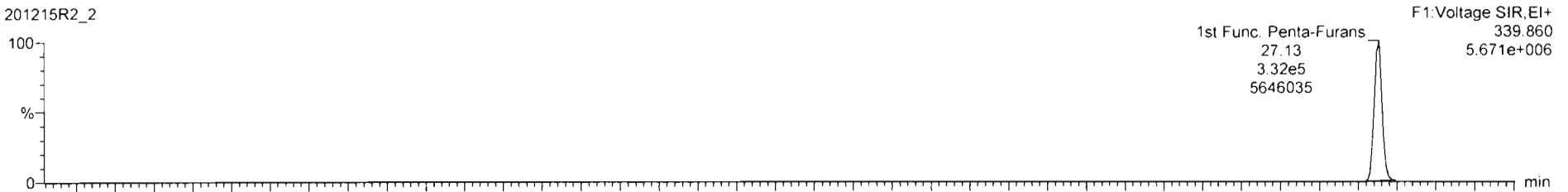
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Last Altered: Wednesday, December 16, 2020 7:03:00 AM Pacific Standard Time
Printed: Wednesday, December 16, 2020 7:03:15 AM Pacific Standard Time

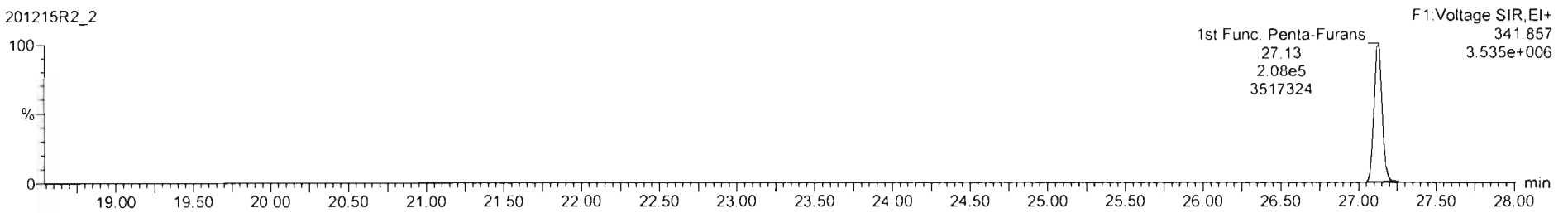
Name: 201215R2_2, Date: 15-Dec-2020, Time: 17:49:34, ID: ST201215R2_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

1st Func. Penta-Furans

201215R2_2

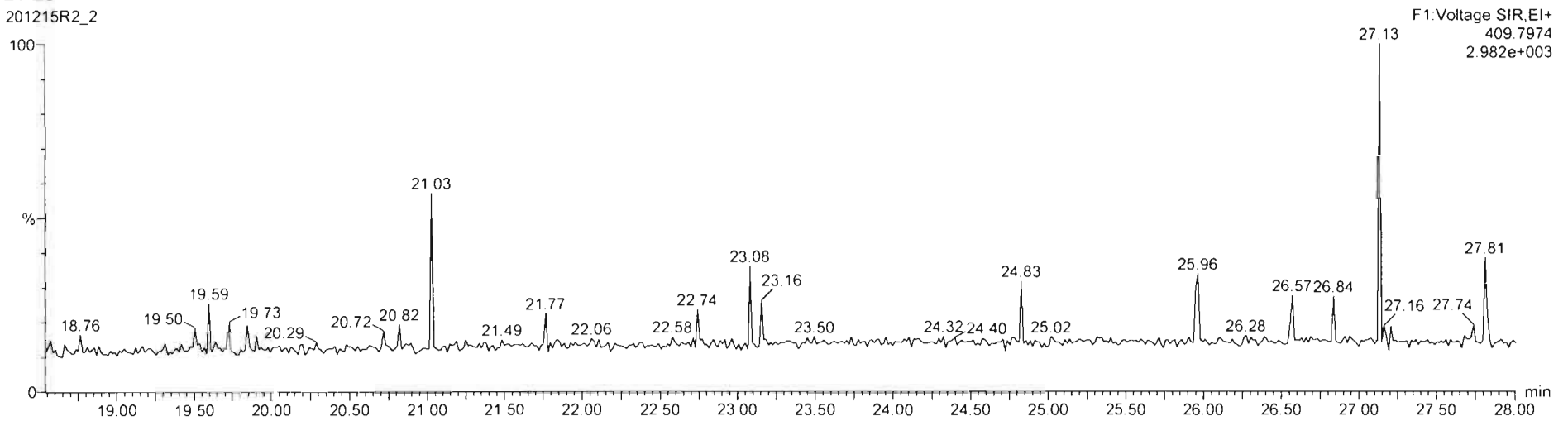


201215R2_2



DPE6

201215R2_2

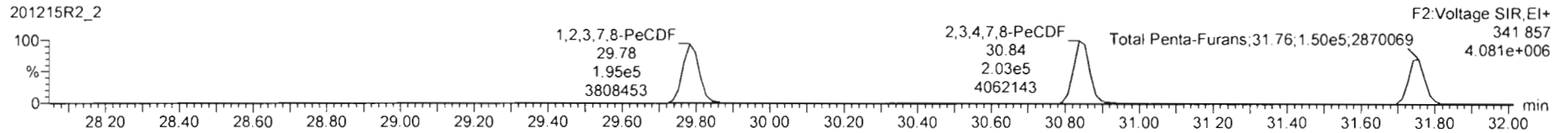
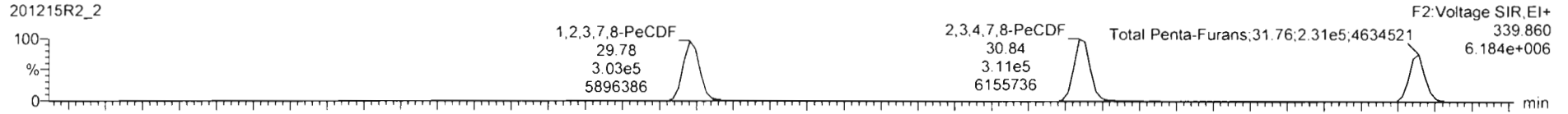


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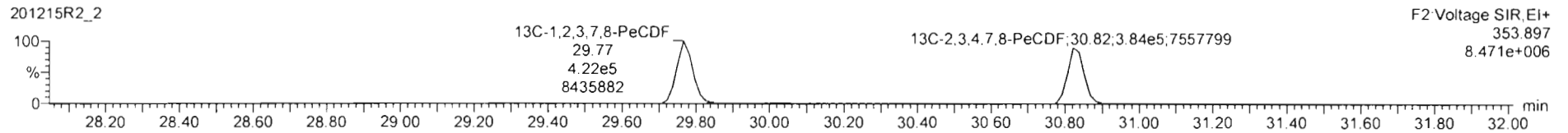
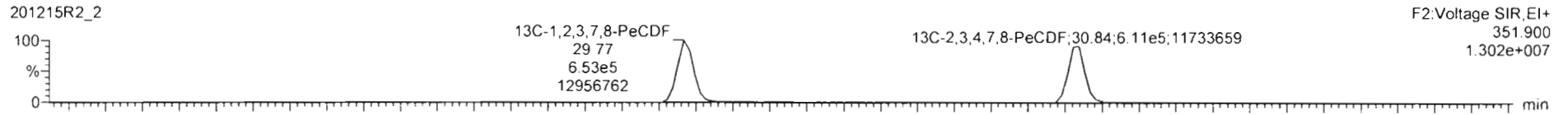
Last Altered: Wednesday, December 16, 2020 7:03:00 AM Pacific Standard Time
Printed: Wednesday, December 16, 2020 7:03:15 AM Pacific Standard Time

Name: 201215R2_2, Date: 15-Dec-2020, Time: 17:49:34, ID: ST201215R2_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

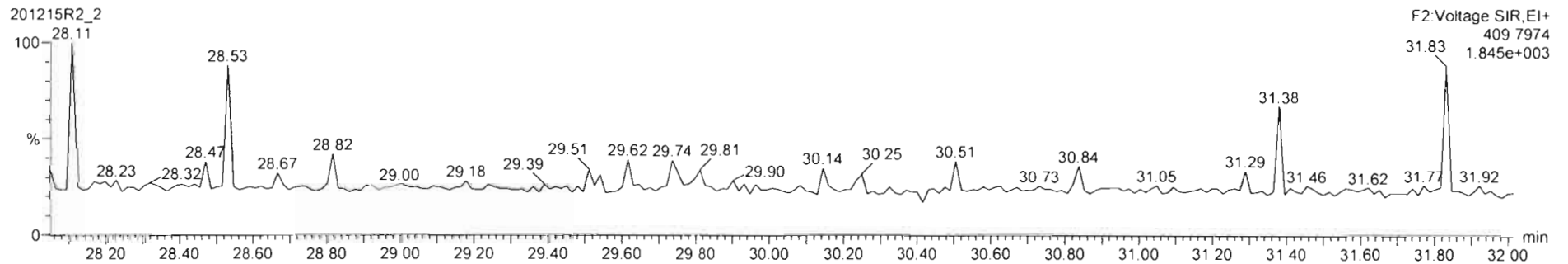
1,2,3,7,8-PeCDF



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



DPE2

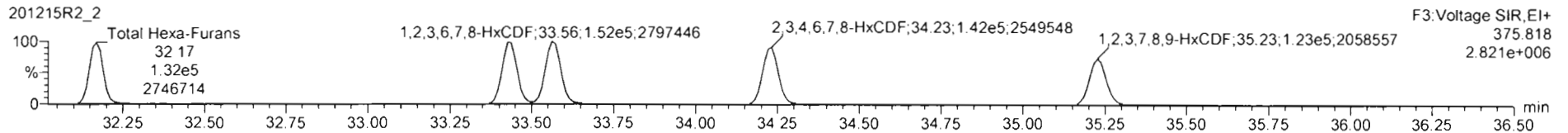
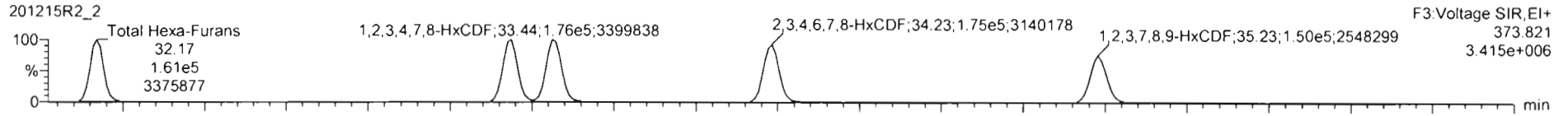


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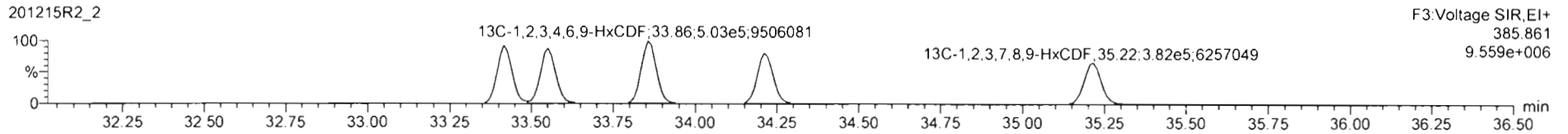
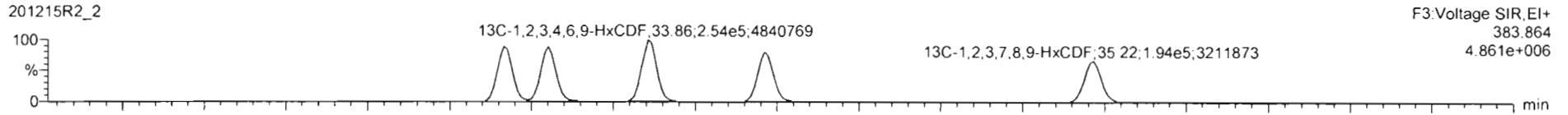
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Printed: Wednesday, December 16, 2020 7:03:15 AM Pacific Standard Time

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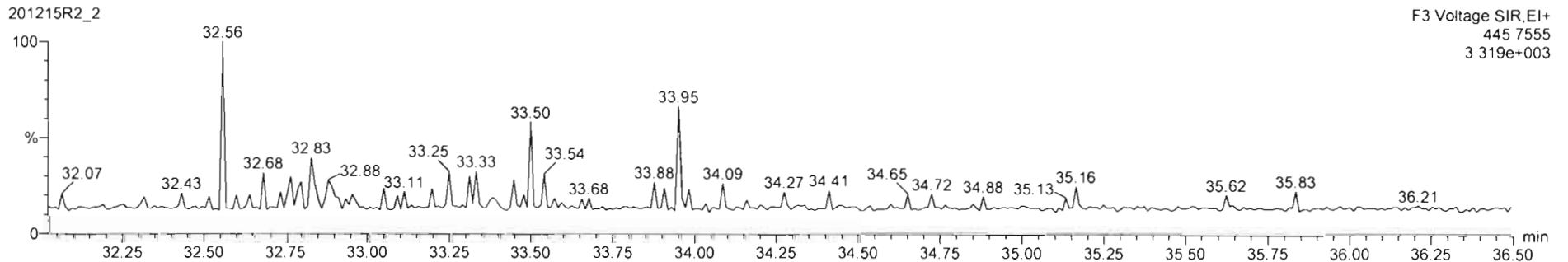
1,2,3,4,7,8-HxCDF



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



DPE3

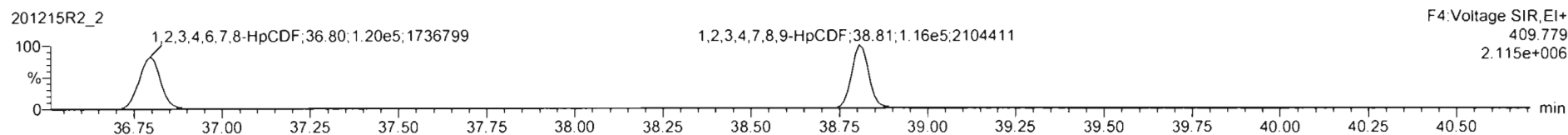
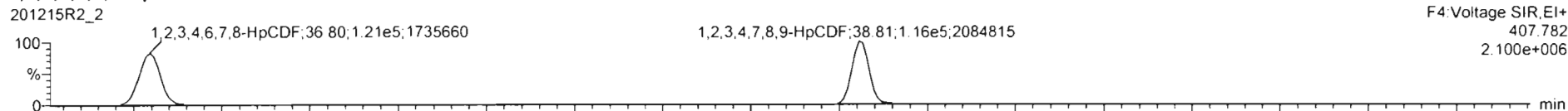


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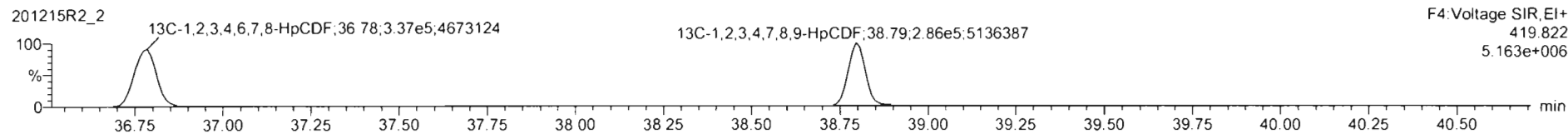
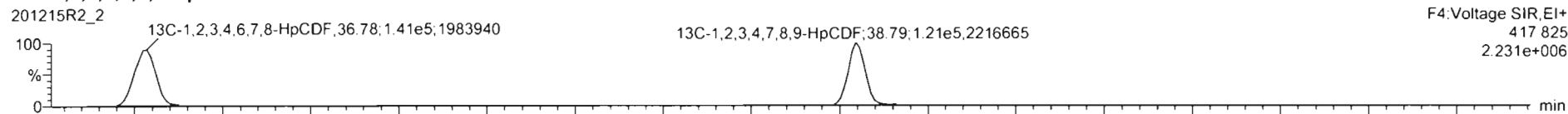
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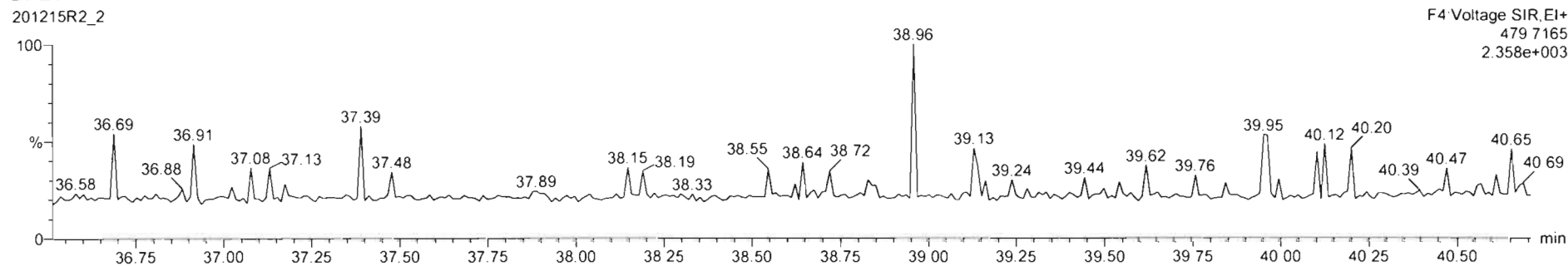
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13C-1,2,3,4,6,7,8-HpCDF



DPE4



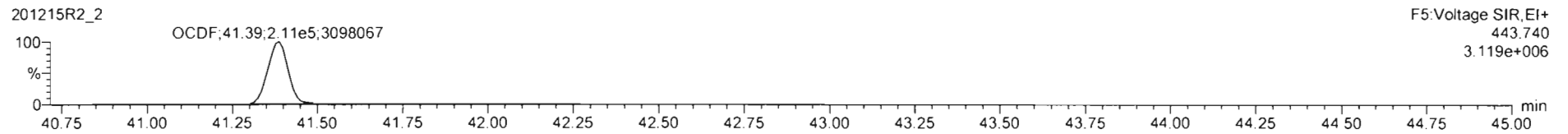
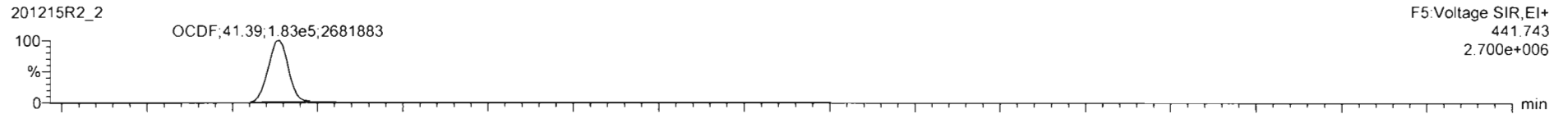
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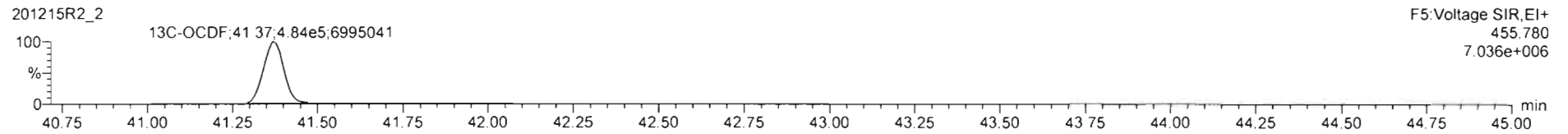
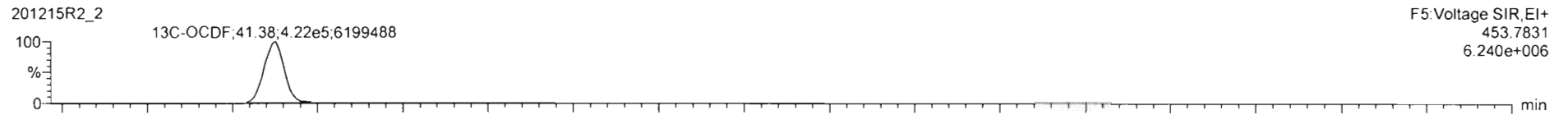
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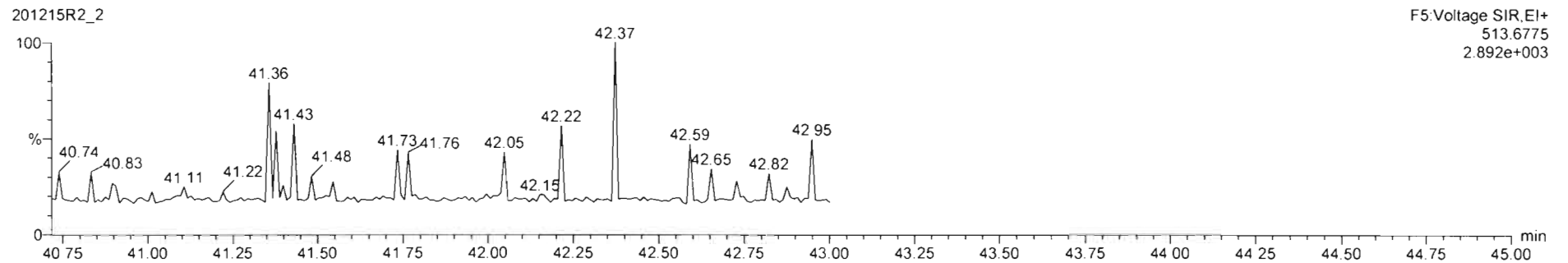
OCDF



13C-OCDF



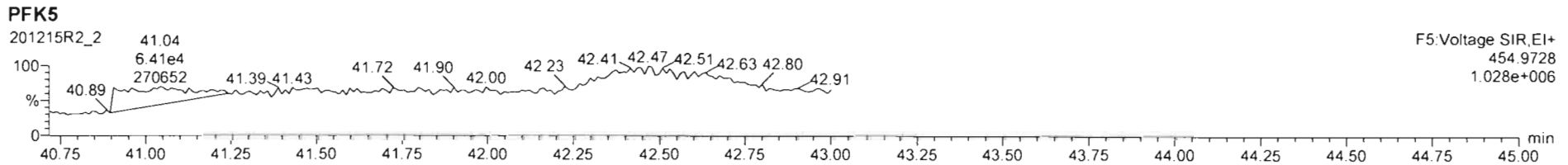
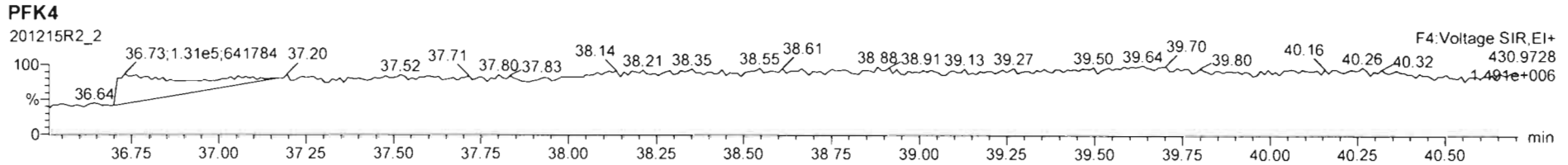
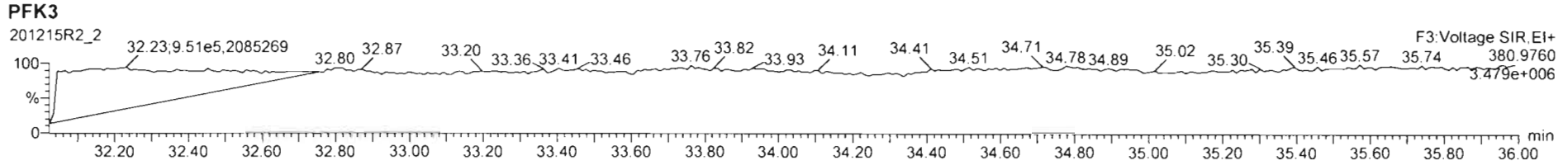
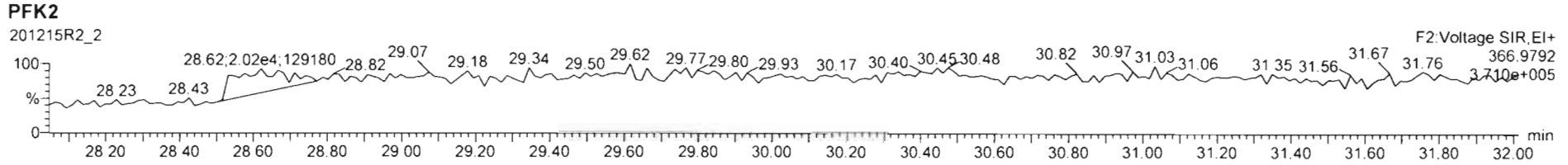
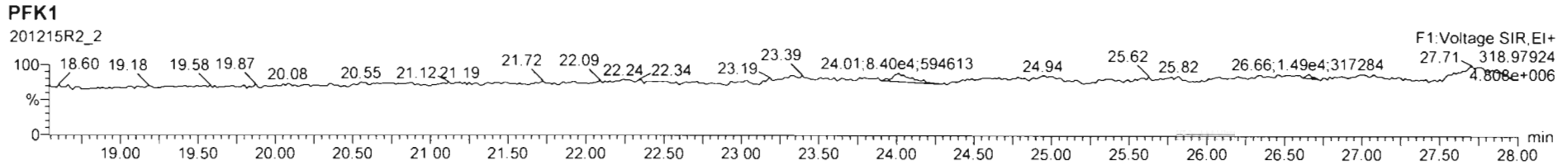
DPE5



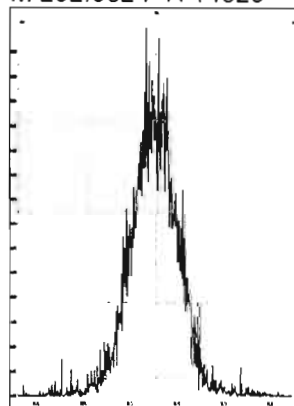
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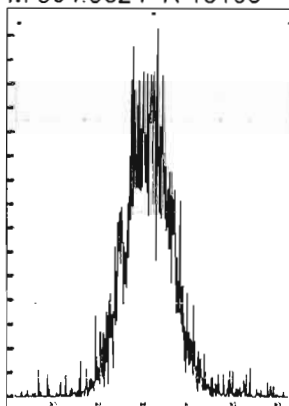
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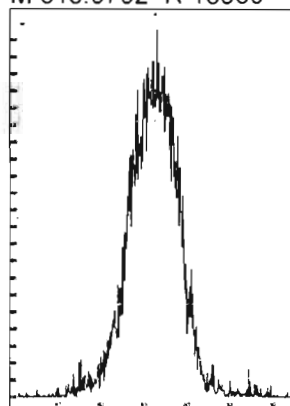
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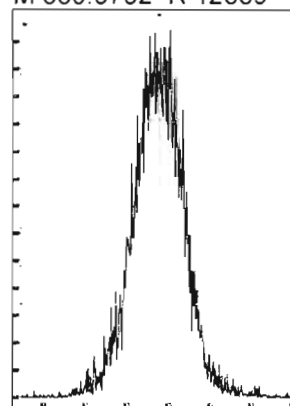
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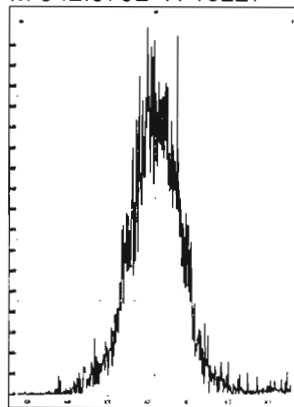
M 318.9792 R 13930



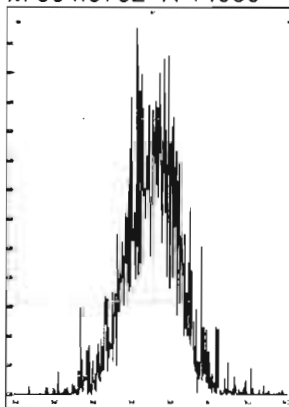
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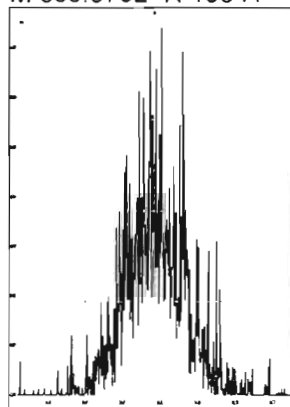
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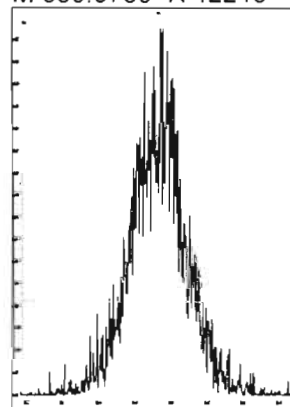
M 354.9792 R 14060



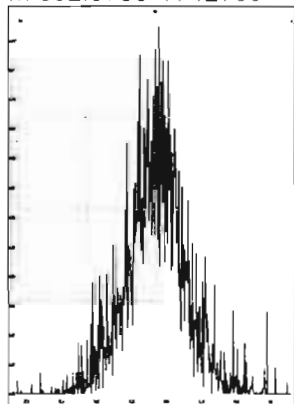
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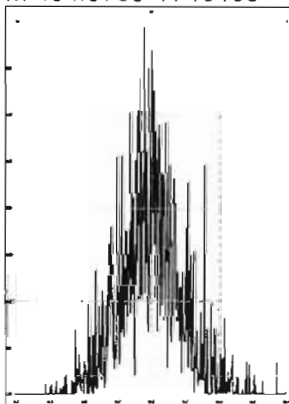
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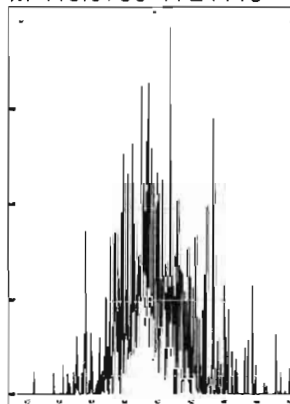
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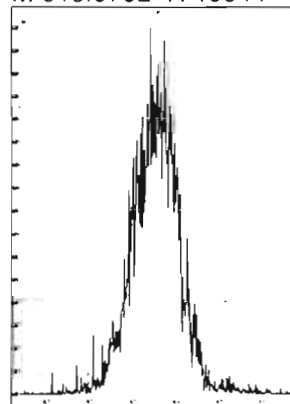
M 404.9760 R 15106



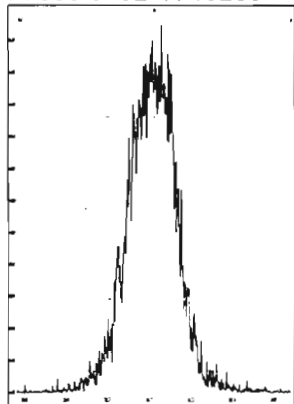
M 416.9760 R 24118



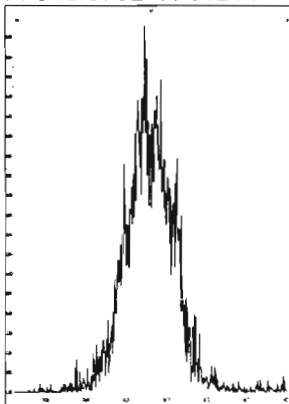
M 318.9792 R 13344



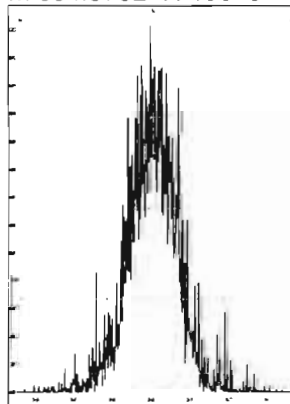
M 330.9792 R 13269



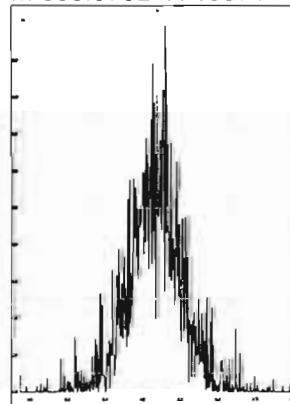
M 342.9792 R 14241



M 354.9792 R 15073

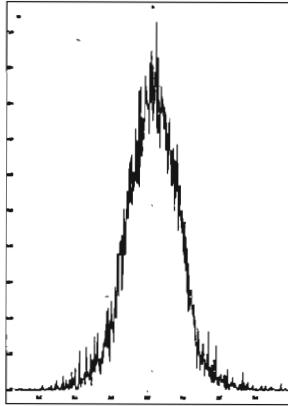


M 366.9792 R 15571

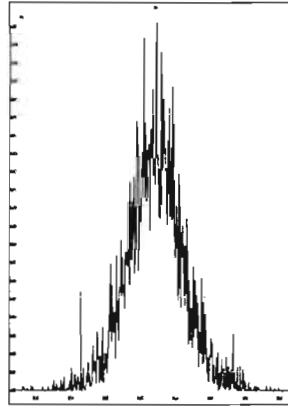


Printed: Wednesday, December 16, 2020 06:55:53 Pacific Standard Time

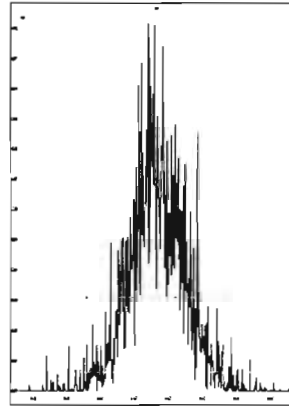
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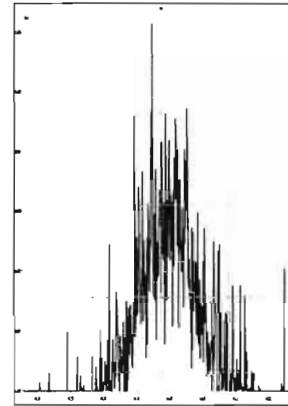
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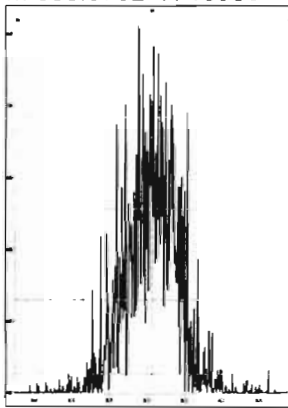
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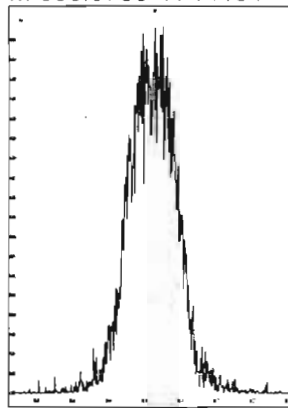
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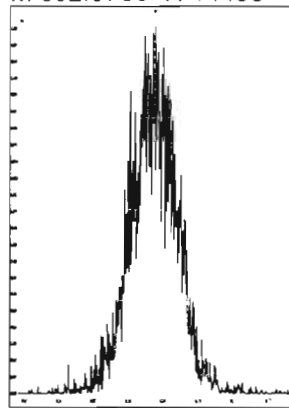
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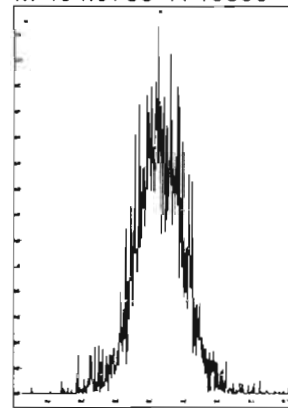
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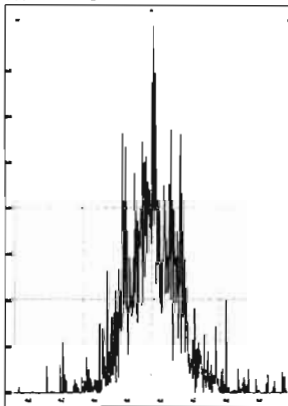
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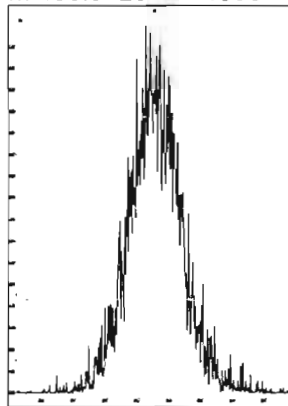
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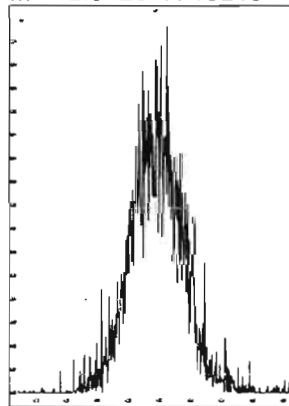
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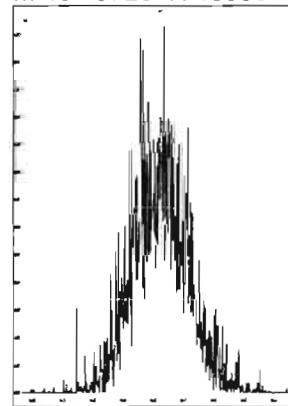
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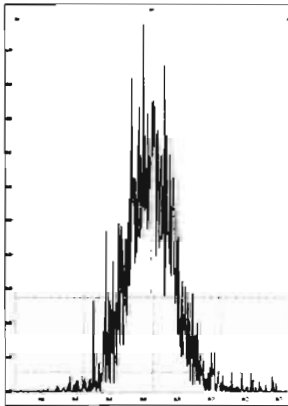
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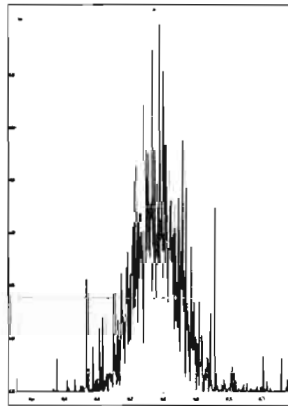
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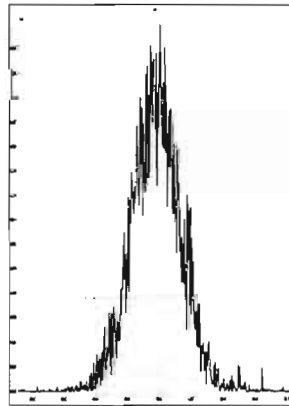
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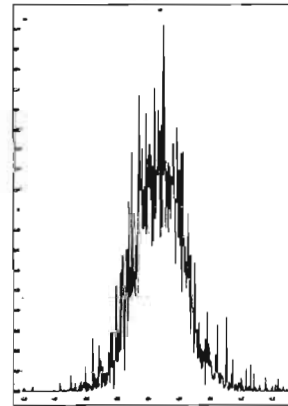
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M 430.9728 R 14124

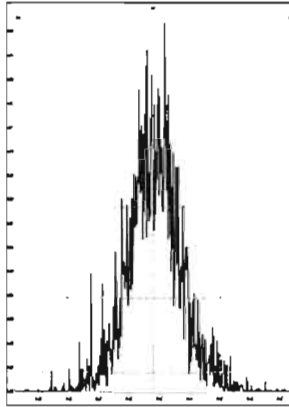


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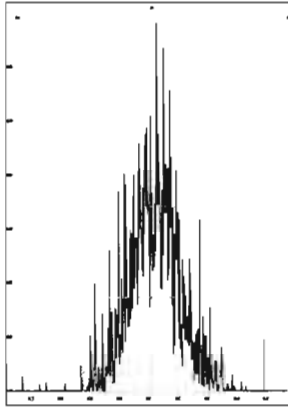


Printed: Wednesday, December 16, 2020 06:55:53 Pacific Standard Time

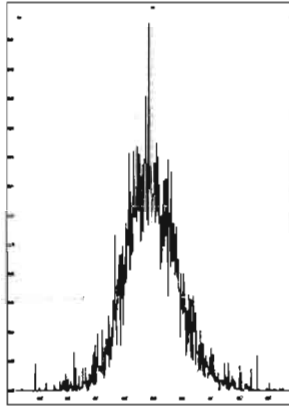
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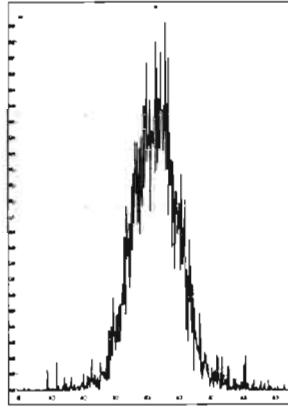
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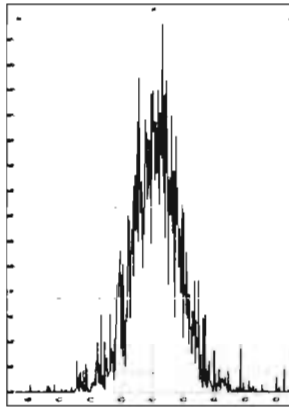
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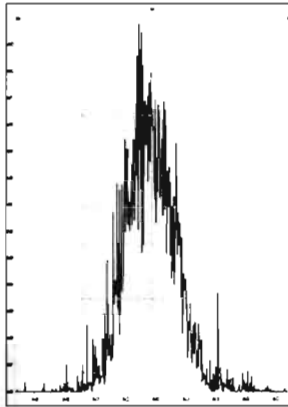
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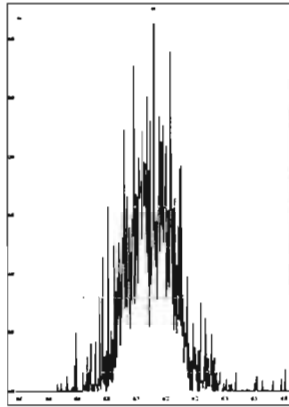
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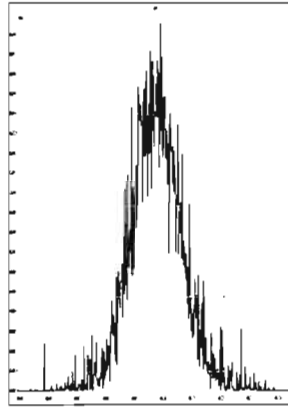
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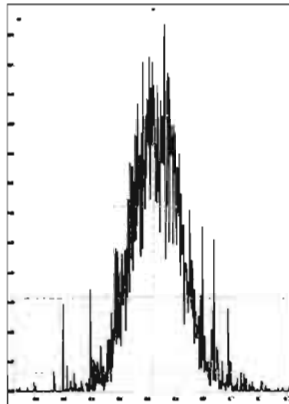
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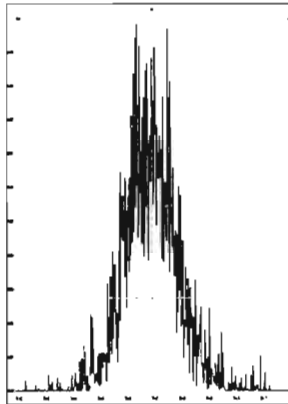
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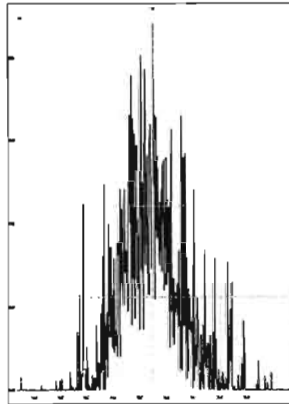
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M 504.9696 R 15178



M 516.9697 R 22445



INITIAL CALIBRATION

Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 11:36:07 Pacific Standard Time
 Printed: Friday, December 04, 2020 11:37:44 Pacific Standard Time

HN 12/04/2020

GPB 12/08/2020

Method: U:\VG12.PRO\MethDB\1613rrt-11-11-20.mdb 12 Nov 2020 07:51:39
 Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

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

Response Factor: 0.980478
 RRF SD: 0.0566851, Relative SD: 5.78138
 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	201203R2_1	0.250	0.69	NO	25.98	1.000	1.86e3	7.27e5	0.261	4.5	1.02	MM
2	201203R2_2	0.500	0.81	NO	26.01	1.001	3.43e3	7.75e5	0.452	-9.6	0.886	MM
3	201203R2_3	2.00	0.78	NO	25.99	1.001	1.58e4	8.00e5	2.01	0.5	0.985	bb
4	201203R2_4	40.0	0.78	NO	25.99	1.001	3.98e5	9.54e5	42.5	6.4	1.04	bb
5	201203R2_5	300	0.78	NO	25.99	1.001	2.86e6	1.00e6	290	-3.3	0.948	bb
6	201203R2_6	10.0	0.77	NO	25.98	1.001	8.33e4	8.36e5	10.2	1.6	0.997	bb

Compound name: 1,2,3,7,8-PeCDD

Response Factor: 0.931961
 RRF SD: 0.0759604, Relative SD: 8.1506
 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	201203R2_1	1.25	0.56	NO	30.74	1.000	6.50e3	5.16e5	1.35	8.2	1.01	MM
2	201203R2_2	2.50	0.57	NO	30.76	1.001	1.18e4	5.51e5	2.29	-8.3	0.854	MM
3	201203R2_3	10.0	0.62	NO	30.74	1.000	5.55e4	5.88e5	10.1	1.3	0.944	MM
4	201203R2_4	200	0.62	NO	30.74	1.000	1.39e6	7.22e5	207	3.6	0.965	bb
5	201203R2_5	1500	0.63	NO	30.74	1.000	1.02e7	8.24e5	1330	-11.6	0.824	bb
6	201203R2_6	50.0	0.61	NO	30.73	1.000	2.93e5	5.89e5	53.4	6.8	0.996	bb

Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 11:36:07 Pacific Standard Time
 Printed: Friday, December 04, 2020 11:37:44 Pacific Standard Time

Compound name: 1,2,3,4,7,8-HxCDD

Response Factor: 1.02027

RRF SD: 0.089298, Relative SD: 8.75242

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	201203R2_1	1.25	1.21	NO	34.05	1.001	4.47e3	3.55e5	1.23	-1.2	1.01	MM
2	201203R2_2	2.50	1.23	NO	34.06	1.001	8.64e3	3.81e5	2.22	-11.0	0.908	bd
3	201203R2_3	10.0	1.22	NO	34.05	1.001	4.12e4	4.06e5	9.96	-0.4	1.02	bd
4	201203R2_4	200	1.26	NO	34.05	1.000	1.17e6	5.28e5	217	8.5	1.11	bd
5	201203R2_5	1500	1.25	NO	34.04	1.000	9.00e6	6.35e5	1390	-7.4	0.945	bd
6	201203R2_6	50.0	1.23	NO	34.04	1.000	2.42e5	4.26e5	55.8	11.6	1.14	bd

Compound name: 1,2,3,6,7,8-HxCDD

Response Factor: 0.902494

RRF SD: 0.0671114, Relative SD: 7.43621

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	201203R2_1	1.25	1.19	NO	34.17	1.000	5.01e3	4.26e5	1.30	4.0	0.939	db
2	201203R2_2	2.50	1.17	NO	34.19	1.001	9.36e3	4.55e5	2.28	-8.8	0.823	MM
3	201203R2_3	10.0	1.32	NO	34.17	1.001	4.48e4	4.87e5	10.2	2.0	0.921	db
4	201203R2_4	200	1.26	NO	34.17	1.000	1.18e6	6.16e5	213	6.6	0.962	db
5	201203R2_5	1500	1.25	NO	34.17	1.001	8.88e6	7.28e5	1350	-9.9	0.813	db
6	201203R2_6	50.0	1.24	NO	34.16	1.000	2.46e5	5.13e5	53.0	6.1	0.957	db

Compound name: 1,2,3,7,8,9-HxCDD

Response Factor: 0.954157

RRF SD: 0.0657355, Relative SD: 6.88938

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	201203R2_1	1.25	1.32	NO	34.44	1.001	5.15e3	4.19e5	1.29	3.0	0.983	bb
2	201203R2_2	2.50	1.24	NO	34.44	1.000	1.00e4	4.56e5	2.30	-8.0	0.878	bb

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Compound name: 1,2,3,7,8,9-HxCDD

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	201203R2_3	10.0	1.23	NO	34.44	1.001	4.69e4	4.87e5	10.1	0.9	0.963	bb
4	201203R2_4	200	1.24	NO	34.44	1.000	1.20e6	5.99e5	210	4.8	1.00	bb
5	201203R2_5	1500	1.24	NO	34.43	1.000	9.22e6	7.06e5	1370	-8.7	0.871	bb
6	201203R2_6	50.0	1.26	NO	34.43	1.000	2.61e5	5.07e5	54.0	8.0	1.03	MM

Compound name: 1,2,3,4,6,7,8-HpCDD

Response Factor: 0.918023

RRF SD: 0.0609394, Relative SD: 6.63%:11

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	201203R2_1	1.25	1.05	NO	37.91	1.000	3.95e3	3.21e5	1.34	7.2	0.984	MM
2	201203R2_2	2.50	1.06	NO	37.92	1.000	7.18e3	3.37e5	2.32	-7.2	0.852	MM
3	201203R2_3	10.0	1.06	NO	37.92	1.001	3.39e4	3.72e5	9.91	-0.9	0.910	MM
4	201203R2_4	200	1.03	NO	37.92	1.000	9.39e5	4.93e5	208	3.8	0.953	bb
5	201203R2_5	1500	1.04	NO	37.91	1.001	7.38e6	5.85e5	1370	-8.5	0.840	bb
6	201203R2_6	50.0	1.02	NO	37.91	1.001	1.90e5	3.92e5	52.8	5.5	0.969	bb

Compound name: OCDD

Response Factor: 0.865808

RRF SD: 0.07035, Relative SD: 8.12536

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	201203R2_1	2.50	0.83	NO	40.81	1.000	6.00e3	5.55e5	2.50	-0.1	0.865	bb
2	201203R2_2	5.00	0.89	NO	40.83	1.000	1.11e4	5.80e5	4.43	-11.4	0.767	MM
3	201203R2_3	20.0	0.84	NO	40.81	1.000	5.89e4	6.66e5	20.4	2.1	0.884	bb
4	201203R2_4	400	0.88	NO	40.81	1.000	1.59e6	8.50e5	432	7.9	0.935	bb
5	201203R2_5	3000	0.89	NO	40.81	1.000	1.27e7	1.06e6	2780	-7.4	0.802	bb
6	201203R2_6	100	0.88	NO	40.81	1.000	3.12e5	6.62e5	109	8.9	0.942	bb

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

Response Factor: 0.847967

RRF SD: 0.0725275, Relative SD: 8.5531

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	201203R2_1	0.250	0.73	NO	25.31	1.001	2.48e3	1.07e6	0.272	8.9	0.923	MM
2	201203R2_2	0.500	0.83	NO	25.30	1.001	4.29e3	1.14e6	0.442	-11.5	0.750	MM
3	201203R2_3	2.00	0.75	NO	25.30	1.001	1.90e4	1.17e6	1.92	-4.0	0.814	bb
4	201203R2_4	40.0	0.76	NO	25.30	1.001	4.93e5	1.37e6	42.3	5.8	0.897	MM
5	201203R2_5	300	0.76	NO	25.30	1.001	3.37e6	1.42e6	279	-6.8	0.790	bb
6	201203R2_6	10.0	0.75	NO	25.30	1.001	1.10e5	1.21e6	10.8	7.7	0.913	db

Compound name: 1,2,3,7,8-PeCDF

Response Factor: 0.959665

RRF SD: 0.0738522, Relative SD: 7.69562

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	201203R2_1	1.25	1.56	NO	29.48	1.000	9.71e3	7.88e5	1.28	2.7	0.986	MM
2	201203R2_2	2.50	1.59	NO	29.49	1.000	1.84e4	8.48e5	2.26	-9.7	0.867	MM
3	201203R2_3	10.0	1.63	NO	29.48	1.000	8.91e4	9.03e5	10.3	2.8	0.986	bb
4	201203R2_4	200	1.57	NO	29.48	1.000	2.24e6	1.11e6	211	5.4	1.01	bb
5	201203R2_5	1500	1.57	NO	29.48	1.000	1.56e7	1.19e6	1360	-9.5	0.869	bb
6	201203R2_6	50.0	1.61	NO	29.46	1.000	4.70e5	9.04e5	54.1	8.3	1.04	bb

Compound name: 2,3,4,7,8-PeCDF

Response Factor: 1.06715

RRF SD: 0.100434, Relative SD: 9.41144

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	201203R2_1	1.25	1.52	NO	30.55	1.000	1.08e4	7.63e5	1.32	6.0	1.13	bb
2	201203R2_2	2.50	1.59	NO	30.55	1.000	1.87e4	8.14e5	2.16	-13.7	0.921	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	201203R2_3	10.0	1.63	NO	30.55	1.000	9.54e4	8.55e5	10.5	4.5	1.12	MM
4	201203R2_4	200	1.56	NO	30.55	1.000	2.37e6	1.06e6	208	4.2	1.11	bb
5	201203R2_5	1500	1.55	NO	30.55	1.000	1.67e7	1.16e6	1350	-10.0	0.961	bb
6	201203R2_6	50.0	1.56	NO	30.53	1.000	5.09e5	8.75e5	54.5	9.0	1.16	bb

Compound name: 1,2,3,4,7,8-HxCDF

Response Factor: 0.9859
 RRF SD: 0.0865731, Relative SD: 8.78113
 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	201203R2_1	1.25	1.29	NO	33.15	1.001	6.18e3	5.15e5	1.22	-2.7	0.959	bd
2	201203R2_2	2.50	1.18	NO	33.16	1.001	1.20e4	5.49e5	2.21	-11.6	0.872	bd
3	201203R2_3	10.0	1.26	NO	33.15	1.000	6.08e4	5.80e5	10.6	6.4	1.05	bd
4	201203R2_4	200	1.23	NO	33.16	1.001	1.55e6	7.36e5	213	6.5	1.05	bd
5	201203R2_5	1500	1.23	NO	33.15	1.001	1.15e7	8.47e5	1380	-8.3	0.904	bd
6	201203R2_6	50.0	1.23	NO	33.15	1.001	3.29e5	6.08e5	54.8	9.6	1.08	bd

Compound name: 1,2,3,6,7,8-HxCDF

Response Factor: 1.03876
 RRF SD: 0.0872692, Relative SD: 8.40126
 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	201203R2_1	1.25	1.27	NO	33.29	1.001	7.32e3	5.47e5	1.29	3.1	1.07	MM
2	201203R2_2	2.50	1.22	NO	33.29	1.000	1.37e4	5.90e5	2.23	-10.8	0.927	MM
3	201203R2_3	10.0	1.27	NO	33.29	1.001	6.64e4	6.28e5	10.2	1.9	1.06	db
4	201203R2_4	200	1.22	NO	33.29	1.000	1.74e6	7.93e5	211	5.7	1.10	db
5	201203R2_5	1500	1.24	NO	33.28	1.000	1.26e7	8.97e5	1350	-9.7	0.938	db
6	201203R2_6	50.0	1.24	NO	33.28	1.001	3.68e5	6.44e5	54.9	9.9	1.14	db

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Compound name: 2,3,4,6,7,8-HxCDF

Response Factor: 1.02016

RRF SD: 0.0860672, Relative SD: 8.43661

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	201203R2_1	1.25	1.25	NO	33.95	1.001	6.57e3	4.91e5	1.31	5.0	1.07	MM
2	201203R2_2	2.50	1.22	NO	33.96	1.001	1.17e4	5.25e5	2.19	-12.3	0.895	MM
3	201203R2_3	10.0	1.26	NO	33.95	1.001	5.87e4	5.65e5	10.2	1.8	1.04	bb
4	201203R2_4	200	1.23	NO	33.95	1.001	1.54e6	7.08e5	213	6.6	1.09	bb
5	201203R2_5	1500	1.22	NO	33.94	1.000	1.14e7	8.16e5	1370	-8.7	0.932	bb
6	201203R2_6	50.0	1.25	NO	33.94	1.001	3.27e5	5.97e5	53.8	7.6	1.10	bb

Compound name: 1,2,3,7,8,9-HxCDF

Response Factor: 0.99094

RRF SD: 0.0846908, Relative SD: 8.54651

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	201203R2_1	1.25	1.26	NO	34.94	1.001	5.61e3	4.28e5	1.32	5.8	1.05	MM
2	201203R2_2	2.50	1.32	NO	34.94	1.000	1.03e4	4.73e5	2.19	-12.6	0.867	bb
3	201203R2_3	10.0	1.25	NO	34.94	1.001	5.03e4	5.05e5	10.1	0.6	0.997	MM
4	201203R2_4	200	1.25	NO	34.93	1.000	1.43e6	6.76e5	213	6.7	1.06	bb
5	201203R2_5	1500	1.23	NO	34.92	1.000	1.09e7	7.99e5	1380	-8.3	0.909	bb
6	201203R2_6	50.0	1.25	NO	34.92	1.000	2.95e5	5.53e5	53.9	7.7	1.07	MM

Compound name: 1,2,3,4,6,7,8-HpCDF

Response Factor: 1.04917

RRF SD: 0.0785065, Relative SD: 7.48269

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	201203R2_1	1.25	1.07	NO	36.49	1.000	5.72e3	4.27e5	1.28	2.1	1.07	MM
2	201203R2_2	2.50	0.94	NO	36.50	1.000	1.06e4	4.51e5	2.24	-10.4	0.940	bb

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Compound name: 1,2,3,4,6,7,8-HpCDF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	201203R2_3	10.0	0.98	NO	36.49	1.000	5.28e4	4.95e5	10.2	1.6	1.07	bb
4	201203R2_4	200	1.01	NO	36.50	1.000	1.36e6	6.02e5	215	7.7	1.13	bb
5	201203R2_5	1500	1.02	NO	36.49	1.001	1.02e7	7.02e5	1380	-7.8	0.967	bb
6	201203R2_6	50.0	1.02	NO	36.47	1.000	2.86e5	5.12e5	53.3	6.7	1.12	bb

Compound name: 1,2,3,4,7,8,9-HpCDF

Response Factor: 1.17589

RRF SD: 0.0886789, Relative SD: 7.54143

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	201203R2_1	1.25	0.89	NO	38.55	1.000	4.14e3	2.76e5	1.28	2.3	1.20	MM
2	201203R2_2	2.50	1.00	NO	38.55	1.000	7.84e3	2.93e5	2.27	-9.1	1.07	MM
3	201203R2_3	10.0	0.99	NO	38.55	1.001	3.75e4	3.22e5	9.90	-1.0	1.16	bb
4	201203R2_4	200	1.02	NO	38.54	1.001	1.06e6	4.21e5	214	7.1	1.26	bb
5	201203R2_5	1500	1.02	NO	38.53	1.000	8.34e6	5.15e5	1380	-8.2	1.08	bb
6	201203R2_6	50.0	1.03	NO	38.54	1.000	2.15e5	3.36e5	54.4	8.8	1.28	bb

Compound name: OCDF

Response Factor: 0.895953

RRF SD: 0.0701579, Relative SD: 7.83054

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	201203R2_1	2.50	0.93	NO	41.09	1.000	7.18e3	6.13e5	2.61	4.6	0.937	MM
2	201203R2_2	5.00	0.90	NO	41.11	1.000	1.32e4	6.61e5	4.46	-10.7	0.800	MM
3	201203R2_3	20.0	0.86	NO	41.10	1.000	6.64e4	7.40e5	20.0	0.2	0.898	bb
4	201203R2_4	400	0.89	NO	41.09	1.000	1.89e6	9.93e5	425	6.3	0.952	MM
5	201203R2_5	3000	0.89	NO	41.09	1.000	1.50e7	1.22e6	2750	-8.3	0.822	bb
6	201203R2_6	100	0.88	NO	41.09	1.000	3.70e5	7.64e5	108	7.9	0.967	bb

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Compound name: 13C-2,3,7,8-TCDD

Response Factor: 1.05554

RRF SD: 0.132152, Relative SD: 12.5199

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	201203R2_1	100	0.77	NO	25.98	1.031	7.27e5	7.80e5	88.4	-11.6	0.933	bb
2	201203R2_2	100	0.76	NO	25.98	1.031	7.75e5	8.11e5	90.5	-9.5	0.955	bb
3	201203R2_3	100	0.77	NO	25.98	1.031	8.00e5	8.35e5	90.8	-9.2	0.958	bb
4	201203R2_4	100	0.79	NO	25.98	1.031	9.54e5	8.19e5	110	10.3	1.16	bb
5	201203R2_5	100	0.78	NO	25.98	1.031	1.00e6	7.99e5	119	19.2	1.26	bb
6	201203R2_6	100	0.78	NO	25.97	1.031	8.36e5	7.85e5	101	0.9	1.07	bb

Compound name: 13C-1,2,3,7,8-PeCDD

Response Factor: 0.784679

RRF SD: 0.1443, Relative SD: 18.3896

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	201203R2_1	100	0.62	NO	30.73	1.219	5.16e5	7.80e5	84.3	-15.7	0.662	bb
2	201203R2_2	100	0.63	NO	30.73	1.219	5.51e5	8.11e5	86.6	-13.4	0.679	bb
3	201203R2_3	100	0.62	NO	30.73	1.219	5.88e5	8.35e5	89.8	-10.2	0.704	bb
4	201203R2_4	100	0.63	NO	30.73	1.219	7.22e5	8.19e5	112	12.4	0.882	bb
5	201203R2_5	100	0.63	NO	30.73	1.219	8.24e5	7.99e5	131	31.4	1.03	bb
6	201203R2_6	100	0.64	NO	30.71	1.219	5.89e5	7.85e5	95.6	-4.4	0.750	bb

Compound name: 13C-1,2,3,4,7,8-HxCDD

Response Factor: 0.620541

RRF SD: 0.0984404, Relative SD: 15.8637

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	201203R2_1	100	1.26	NO	34.03	1.014	3.55e5	6.41e5	89.2	-10.8	0.553	bd
2	201203R2_2	100	1.27	NO	34.04	1.014	3.81e5	6.94e5	88.5	-11.5	0.549	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	201203R2_3	100	1.27	NO	34.03	1.014	4.06e5	7.47e5	87.6	-12.4	0.544	bd
4	201203R2_4	100	1.30	NO	34.04	1.014	5.28e5	7.82e5	109	8.9	0.676	bd
5	201203R2_5	100	1.28	NO	34.03	1.013	6.35e5	8.01e5	128	27.7	0.793	bd
6	201203R2_6	100	1.28	NO	34.03	1.014	4.26e5	6.99e5	98.1	-1.9	0.609	bd

Compound name: 13C-1,2,3,6,7,8-HxCDD

Response Factor: 0.734012

RRF SD: 0.101028, Relative SD: 13.7638

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	201203R2_1	100	1.29	NO	34.16	1.018	4.26e5	6.41e5	90.7	-9.3	0.665	db
2	201203R2_2	100	1.28	NO	34.16	1.017	4.55e5	6.94e5	89.4	-10.6	0.656	db
3	201203R2_3	100	1.28	NO	34.15	1.017	4.87e5	7.47e5	88.8	-11.2	0.651	db
4	201203R2_4	100	1.27	NO	34.16	1.017	6.16e5	7.82e5	107	7.3	0.788	db
5	201203R2_5	100	1.27	NO	34.15	1.017	7.28e5	8.01e5	124	23.8	0.909	db
6	201203R2_6	100	1.26	NO	34.15	1.017	5.13e5	6.99e5	100	0.1	0.735	db

Compound name: 13C-1,2,3,7,8,9-HxCDD

Response Factor: 0.72265

RRF SD: 0.0908822, Relative SD: 12.5762

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	201203R2_1	100	1.25	NO	34.42	1.025	4.19e5	6.41e5	90.4	-9.6	0.653	bd
2	201203R2_2	100	1.26	NO	34.43	1.025	4.56e5	6.94e5	91.0	-9.0	0.657	bb
3	201203R2_3	100	1.26	NO	34.42	1.025	4.87e5	7.47e5	90.2	-9.8	0.652	MM
4	201203R2_4	100	1.24	NO	34.43	1.025	5.99e5	7.82e5	106	6.1	0.766	bb
5	201203R2_5	100	1.26	NO	34.42	1.025	7.06e5	8.01e5	122	22.0	0.882	bb
6	201203R2_6	100	1.25	NO	34.42	1.025	5.07e5	6.99e5	100	0.3	0.725	bb

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

Response Factor: 0.567736

RRF SD: 0.0966968, Relative SD: 17.032

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	201203R2_1	100	1.06	NO	37.90	1.129	3.21e5	6.41e5	88.2	-11.8	0.501	MM
2	201203R2_2	100	1.05	NO	37.91	1.129	3.37e5	6.94e5	85.5	-14.5	0.485	bb
3	201203R2_3	100	1.06	NO	37.90	1.129	3.72e5	7.47e5	87.8	-12.2	0.498	MM
4	201203R2_4	100	1.04	NO	37.91	1.129	4.93e5	7.82e5	111	11.0	0.630	bb
5	201203R2_5	100	1.05	NO	37.89	1.128	5.85e5	8.01e5	129	28.8	0.731	bb
6	201203R2_6	100	1.06	NO	37.89	1.129	3.92e5	6.99e5	98.7	-1.3	0.561	bb

Compound name: 13C-OCDD

Response Factor: 0.49583

RRF SD: 0.0921522, Relative SD: 18.5854

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	201203R2_1	200	0.89	NO	40.80	1.215	5.55e5	6.41e5	175	-12.7	0.433	MM
2	201203R2_2	200	0.88	NO	40.81	1.215	5.80e5	6.94e5	169	-15.7	0.418	MM
3	201203R2_3	200	0.91	NO	40.80	1.215	6.66e5	7.47e5	180	-10.0	0.446	bd
4	201203R2_4	200	0.89	NO	40.80	1.215	8.50e5	7.82e5	219	9.7	0.544	bb
5	201203R2_5	200	0.89	NO	40.80	1.215	1.06e6	8.01e5	267	33.3	0.661	bb
6	201203R2_6	200	0.89	NO	40.80	1.215	6.62e5	6.99e5	191	-4.5	0.474	bb

Compound name: 13C-2,3,7,8-TCDF

Response Factor: 0.919039

RRF SD: 0.110551, Relative SD: 12.029

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	201203R2_1	100	0.78	NO	25.28	1.003	1.07e6	1.32e6	88.7	-11.3	0.815	bb
2	201203R2_2	100	0.79	NO	25.28	1.003	1.14e6	1.36e6	91.6	-8.4	0.842	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	201203R2_3	100	0.76	NO	25.28	1.003	1.17e6	1.40e6	90.7	-9.3	0.834	bb
4	201203R2_4	100	0.79	NO	25.28	1.003	1.37e6	1.36e6	110	9.9	1.01	bb
5	201203R2_5	100	0.77	NO	25.28	1.003	1.42e6	1.31e6	118	18.5	1.09	bb
6	201203R2_6	100	0.77	NO	25.27	1.003	1.21e6	1.30e6	101	0.7	0.925	bb

Compound name: 13C-1,2,3,7,8-PeCDF

Response Factor: 0.715118

RRF SD: 0.124185, Relative SD: 17.3657

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	201203R2_1	100	1.62	NO	29.46	1.169	7.88e5	1.32e6	83.6	-16.4	0.598	MM
2	201203R2_2	100	1.60	NO	29.48	1.169	8.48e5	1.36e6	87.3	-12.7	0.624	bb
3	201203R2_3	100	1.61	NO	29.46	1.169	9.03e5	1.40e6	90.3	-9.7	0.646	bb
4	201203R2_4	100	1.57	NO	29.48	1.169	1.11e6	1.36e6	114	13.8	0.814	bb
5	201203R2_5	100	1.59	NO	29.46	1.169	1.19e6	1.31e6	128	28.0	0.915	bb
6	201203R2_6	100	1.63	NO	29.46	1.169	9.04e5	1.30e6	97.0	-3.0	0.694	bb

Compound name: 13C-2,3,4,7,8-PeCDF

Response Factor: 0.688531

RRF SD: 0.122291, Relative SD: 17.7611

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	201203R2_1	100	1.62	NO	30.53	1.211	7.63e5	1.32e6	84.1	-15.9	0.579	bb
2	201203R2_2	100	1.59	NO	30.53	1.211	8.14e5	1.36e6	87.1	-12.9	0.599	MM
3	201203R2_3	100	1.60	NO	30.53	1.212	8.55e5	1.40e6	88.8	-11.2	0.611	bb
4	201203R2_4	100	1.59	NO	30.53	1.211	1.06e6	1.36e6	114	13.6	0.782	bb
5	201203R2_5	100	1.59	NO	30.53	1.212	1.16e6	1.31e6	129	29.0	0.888	bb
6	201203R2_6	100	1.63	NO	30.52	1.211	8.75e5	1.30e6	97.5	-2.5	0.671	bb

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Compound name: 13C-1,2,3,4,7,8-HxCDF

Response Factor: 0.873401
 RRF SD: 0.109302, Relative SD: 12.5145
 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	201203R2_1	100	0.51	NO	33.13	0.987	5.15e5	6.41e5	92.0	-8.0	0.804	bd
2	201203R2_2	100	0.51	NO	33.14	0.987	5.49e5	6.94e5	90.7	-9.3	0.792	bd
3	201203R2_3	100	0.50	NO	33.14	0.987	5.80e5	7.47e5	88.8	-11.2	0.776	bd
4	201203R2_4	100	0.51	NO	33.14	0.987	7.36e5	7.82e5	108	7.8	0.941	bd
5	201203R2_5	100	0.51	NO	33.13	0.987	8.47e5	8.01e5	121	21.1	1.06	bd
6	201203R2_6	100	0.50	NO	33.13	0.987	6.08e5	6.99e5	99.6	-0.4	0.870	bd

Compound name: 13C-1,2,3,6,7,8-HxCDF

Response Factor: 0.933484
 RRF SD: 0.112711, Relative SD: 12.0743
 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	201203R2_1	100	0.50	NO	33.27	0.991	5.47e5	6.41e5	91.4	-8.6	0.854	db
2	201203R2_2	100	0.52	NO	33.28	0.991	5.90e5	6.94e5	91.0	-9.0	0.850	MM
3	201203R2_3	100	0.51	NO	33.27	0.991	6.28e5	7.47e5	90.0	-10.0	0.841	db
4	201203R2_4	100	0.50	NO	33.28	0.991	7.93e5	7.82e5	109	8.7	1.01	db
5	201203R2_5	100	0.51	NO	33.27	0.991	8.97e5	8.01e5	120	20.0	1.12	db
6	201203R2_6	100	0.50	NO	33.26	0.991	6.44e5	6.99e5	98.8	-1.2	0.922	db

Compound name: 13C-2,3,4,6,7,8-HxCDF

Response Factor: 0.843038
 RRF SD: 0.105848, Relative SD: 12.5555
 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	201203R2_1	100	0.50	NO	33.93	1.011	4.91e5	6.41e5	90.9	-9.1	0.766	MM
2	201203R2_2	100	0.50	NO	33.94	1.011	5.25e5	6.94e5	89.8	-10.2	0.757	MM

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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	201203R2_3	100	0.51	NO	33.93	1.011	5.65e5	7.47e5	89.7	-10.3	0.756	bb
4	201203R2_4	100	0.51	NO	33.93	1.010	7.08e5	7.82e5	107	7.5	0.906	bb
5	201203R2_5	100	0.51	NO	33.93	1.010	8.16e5	8.01e5	121	20.9	1.02	bb
6	201203R2_6	100	0.51	NO	33.92	1.010	5.97e5	6.99e5	101	1.2	0.853	bb

Compound name: 13C-1,2,3,7,8,9-HxCDF

Response Factor: 0.7799

RRF SD: 0.132819, Relative SD: 17.0303

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	201203R2_1	100	0.51	NO	34.92	1.040	4.28e5	6.41e5	85.6	-14.4	0.667	MM
2	201203R2_2	100	0.50	NO	34.93	1.040	4.73e5	6.94e5	87.5	-12.5	0.682	MM
3	201203R2_3	100	0.52	NO	34.92	1.040	5.05e5	7.47e5	86.6	-13.4	0.676	MM
4	201203R2_4	100	0.52	NO	34.92	1.040	6.76e5	7.82e5	111	10.9	0.865	MM
5	201203R2_5	100	0.51	NO	34.91	1.040	7.99e5	8.01e5	128	28.0	0.998	bb
6	201203R2_6	100	0.49	NO	34.91	1.040	5.53e5	6.99e5	101	1.4	0.791	bb

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

Response Factor: 0.726456

RRF SD: 0.0871718, Relative SD: 11.9096

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	201203R2_1	100	0.42	NO	36.48	1.087	4.27e5	6.41e5	91.8	-8.2	0.667	bb
2	201203R2_2	100	0.42	NO	36.49	1.087	4.51e5	6.94e5	89.6	-10.4	0.651	bb
3	201203R2_3	100	0.43	NO	36.47	1.087	4.95e5	7.47e5	91.2	-8.8	0.663	bb
4	201203R2_4	100	0.42	NO	36.49	1.087	6.02e5	7.82e5	106	6.0	0.770	bb
5	201203R2_5	100	0.43	NO	36.47	1.086	7.02e5	8.01e5	121	20.7	0.877	bb
6	201203R2_6	100	0.43	NO	36.47	1.086	5.12e5	6.99e5	101	0.7	0.732	bb

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Compound name: 13C-1,2,3,4,7,8,9-HpCDF

Response Factor: 0.49111

RRF SD: 0.0867845, Relative SD: 17.6711

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	201203R2_1	100	0.42	NO	38.53	1.148	2.76e5	6.41e5	87.5	-12.5	0.430	MM
2	201203R2_2	100	0.42	NO	38.54	1.148	2.93e5	6.94e5	86.1	-13.9	0.423	bb
3	201203R2_3	100	0.40	NO	38.53	1.148	3.22e5	7.47e5	87.7	-12.3	0.431	bb
4	201203R2_4	100	0.42	NO	38.52	1.147	4.21e5	7.82e5	110	9.8	0.539	bb
5	201203R2_5	100	0.42	NO	38.52	1.147	5.15e5	8.01e5	131	31.0	0.643	bb
6	201203R2_6	100	0.42	NO	38.53	1.148	3.36e5	6.99e5	97.9	-2.1	0.481	bb

Compound name: 13C-OCDF

Response Factor: 0.565418

RRF SD: 0.112698, Relative SD: 19.9318

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	201203R2_1	200	0.87	NO	41.09	1.224	6.13e5	6.41e5	169	-15.4	0.478	MM
2	201203R2_2	200	0.89	NO	41.10	1.224	6.61e5	6.94e5	169	-15.7	0.477	MM
3	201203R2_3	200	0.89	NO	41.08	1.224	7.40e5	7.47e5	175	-12.4	0.495	bb
4	201203R2_4	200	0.89	NO	41.08	1.223	9.93e5	7.82e5	225	12.4	0.636	MM
5	201203R2_5	200	0.88	NO	41.07	1.223	1.22e6	8.01e5	269	34.4	0.760	bb
6	201203R2_6	200	0.87	NO	41.08	1.224	7.64e5	6.99e5	193	-3.3	0.547	bb

Compound name: 37Cl-2,3,7,8-TCDD

Response Factor: 1.21674

RRF SD: 0.217315, Relative SD: 17.8605

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	201203R2_1	0.250			26.01	1.032	2.03e3	7.80e5	0.214	-14.5	1.04	bb
2	201203R2_2	0.500			26.01	1.032	4.12e3	8.11e5	0.418	-16.4	1.02	bb

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Compound name: 37Cl-2,3,7,8-TCDD

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	201203R2_3	2.00			25.99	1.032	1.69e4	8.35e5	1.66	-16.8	1.01	bb
4	201203R2_4	40.0			25.99	1.031	4.66e5	8.19e5	46.8	16.9	1.42	bb
5	201203R2_5	200			25.99	1.032	2.36e6	7.99e5	243	21.5	1.48	bb
6	201203R2_6	10.0			25.98	1.031	1.04e5	7.85e5	10.9	9.3	1.33	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	201203R2_1	100	0.79	NO	25.21	1.000	7.80e5	7.80e5	100	0.0	1.00	bb
2	201203R2_2	100	0.78	NO	25.21	1.000	8.11e5	8.11e5	100	0.0	1.00	bb
3	201203R2_3	100	0.78	NO	25.20	1.000	8.35e5	8.35e5	100	0.0	1.00	bb
4	201203R2_4	100	0.77	NO	25.21	1.000	8.19e5	8.19e5	100	0.0	1.00	bb
5	201203R2_5	100	0.77	NO	25.20	1.000	7.99e5	7.99e5	100	0.0	1.00	bb
6	201203R2_6	100	0.79	NO	25.20	1.000	7.85e5	7.85e5	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	201203R2_1	100	0.79	NO	23.69	1.000	1.32e6	1.32e6	100	0.0	1.00	bb
2	201203R2_2	100	0.78	NO	23.69	1.000	1.36e6	1.36e6	100	0.0	1.00	bb
3	201203R2_3	100	0.79	NO	23.67	1.000	1.40e6	1.40e6	100	0.0	1.00	bb
4	201203R2_4	100	0.78	NO	23.67	1.000	1.36e6	1.36e6	100	0.0	1.00	bb
5	201203R2_5	100	0.79	NO	23.69	1.000	1.31e6	1.31e6	100	0.0	1.00	bb
6	201203R2_6	100	0.79	NO	23.66	1.000	1.30e6	1.30e6	100	0.0	1.00	bb

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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	201203R2_1	100	0.50	NO	33.57	1.000	6.41e5	6.41e5	100	0.0	1.00	bb
2	201203R2_2	100	0.52	NO	33.58	1.000	6.94e5	6.94e5	100	0.0	1.00	bb
3	201203R2_3	100	0.51	NO	33.57	1.000	7.47e5	7.47e5	100	0.0	1.00	bb
4	201203R2_4	100	0.51	NO	33.58	1.000	7.82e5	7.82e5	100	0.0	1.00	bb
5	201203R2_5	100	0.51	NO	33.58	1.000	8.01e5	8.01e5	100	0.0	1.00	bb
6	201203R2_6	100	0.50	NO	33.57	1.000	6.99e5	6.99e5	100	0.0	1.00	bb

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Friday, December 04, 2020 12:05:28 Pacific Standard Time

Printed: Friday, December 04, 2020 12:05:43 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-11-11-20.mdb 12 Nov 2020 07:51:39

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

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

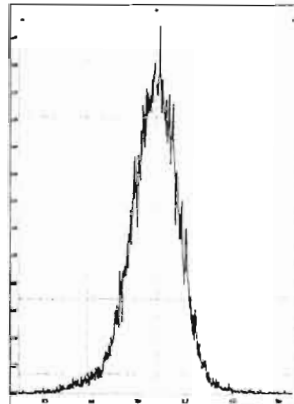
	Name	ID	Acq.Date	Acq.Time
1	201203R2_1	ST201203R2_1 1613 CS0 20K1901	03-Dec-20	10:36:45
2	201203R2_2	ST201203R2_2 1613 CS1 20K1902	03-Dec-20	11:28:04
3	201203R2_3	ST201203R2_3 1613 CS2 20K1903	03-Dec-20	12:14:40
4	201203R2_4	ST201203R2_4 1613 CS4 20L0302	03-Dec-20	13:00:37
5	201203R2_5	ST201203R2_5 1613 CS5 20L0303	03-Dec-20	13:47:04
6	201203R2_6	ST201203R2_6 1613 CS3 20L0301	03-Dec-20	14:35:05
7	201203R2_7	SOLVENT BLANK	03-Dec-20	15:21:59
8	201203R2_8	SS201203R2_1 1613 SSS 20K1907	03-Dec-20	16:09:07
9	201203R2_9	SOLVENT BLANK	03-Dec-20	17:02:58
10	201203R2_10	2002458-01 GW-1212 0.93004	03-Dec-20	17:47:52
11	201203R2_11	2002458-02 GW-1213 0.92278	03-Dec-20	18:32:46
12	201203R2_12	2002458-03 GW-1246 0.9578	03-Dec-20	19:17:40
13	201203R2_13	2002459-01 GW-1223 0.93891	03-Dec-20	20:02:33
14	201203R2_14	2002459-02 GW-1224 0.94848	03-Dec-20	20:47:27
15	201203R2_15	2002459-03 GW-1215 0.95546	03-Dec-20	21:32:21
16	201203R2_16	2002459-04 GW-1216 0.935	03-Dec-20	22:17:16
17	201203R2_17			
18	201203R2_18			
19	201203R2_19			
20	201203R2_20	SOLVENT BLANK	04-Dec-20	07:52:29
21	201203R2_21	ST201203R2_7 1613 CS3 20L0301	04-Dec-20	08:38:31

(A) Oven door open, run paused LHM 12/04/2020

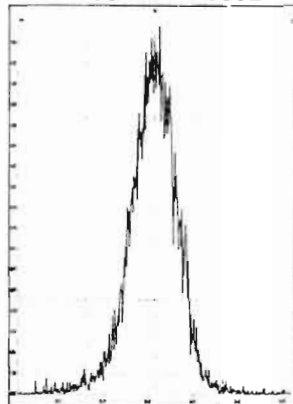
File: Experiment: OCDD_DIOXIN.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, December 03, 2020 10:30:53 Pacific Standard Time

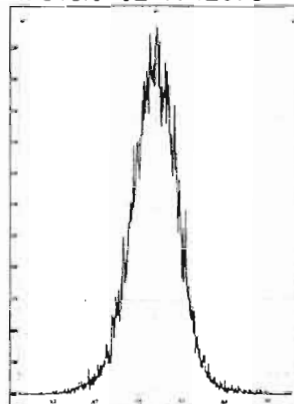
M 292.9824 R 12690



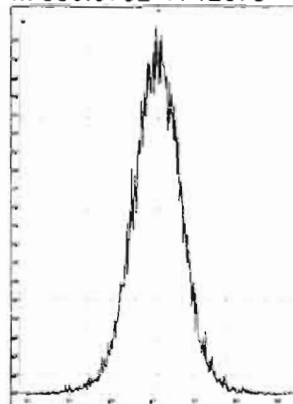
M 304.9824 R 13892



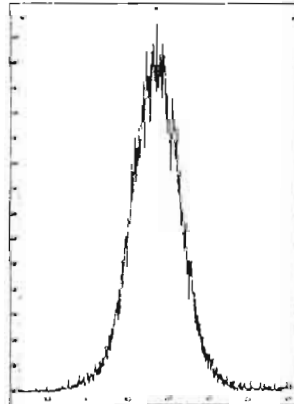
M 318.9792 R 12078



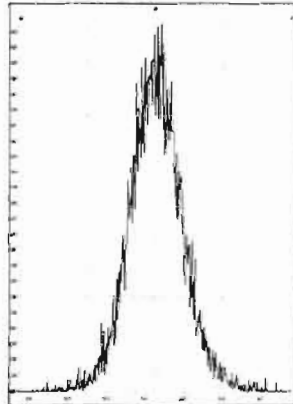
M 330.9792 R 12075



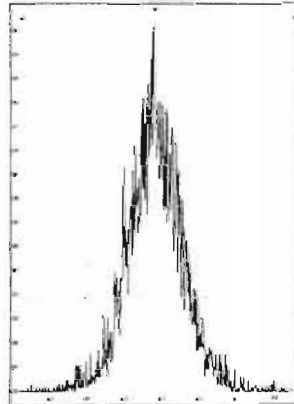
M 342.9792 R 12132



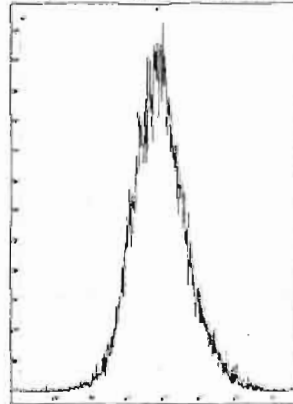
M 354.9792 R 11681



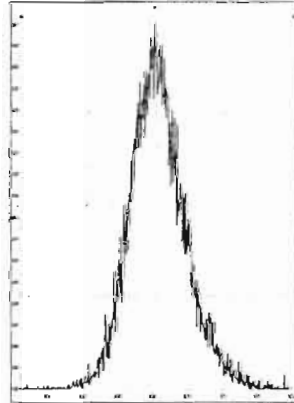
M 366.9792 R 14120



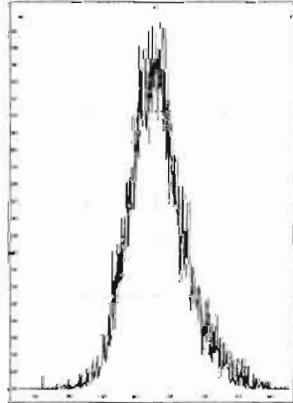
M 380.9760 R 10504



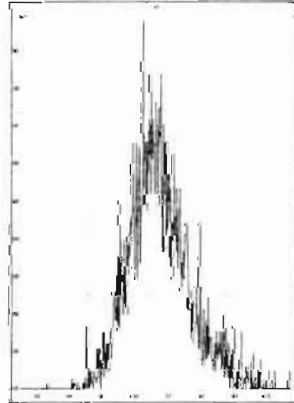
M 392.9760 R 10962



M 404.9760 R 11261



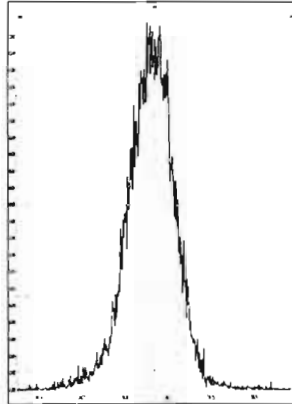
M 416.9760 R 10506



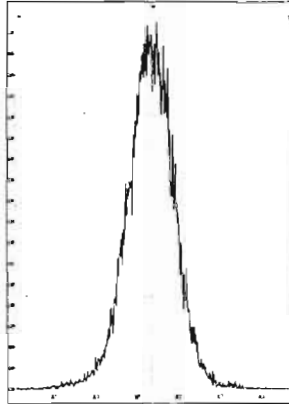
File: Experiment: OCDD_DIOXIN.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Thursday, December 03, 2020 10:32:05 Pacific Standard Time

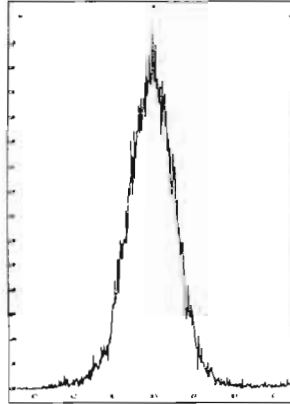
M 318.9792 R 12626



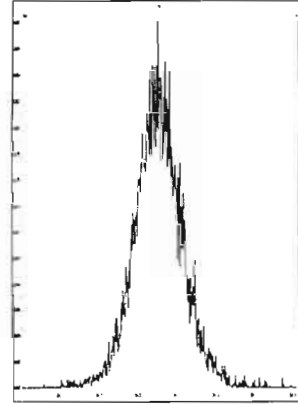
M 330.9792 R 12258



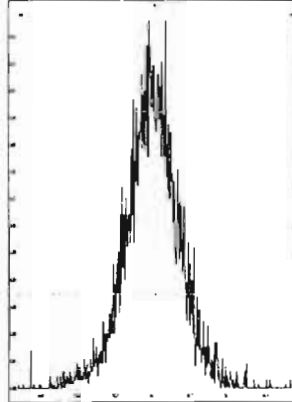
M 342.9792 R 11900



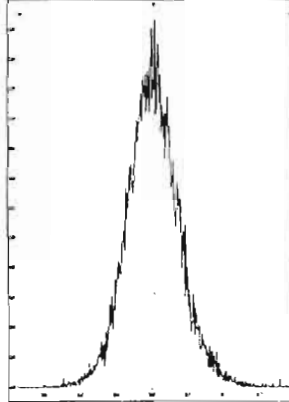
M 354.9792 R 12561



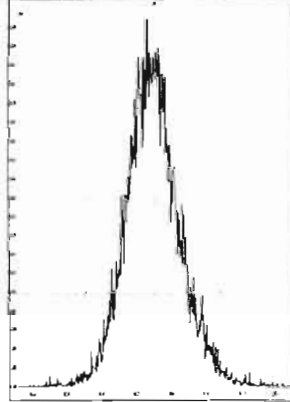
M 366.9792 R 12888



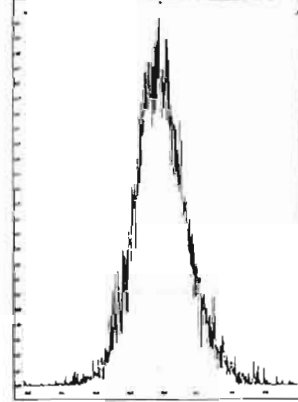
M 380.9760 R 11520



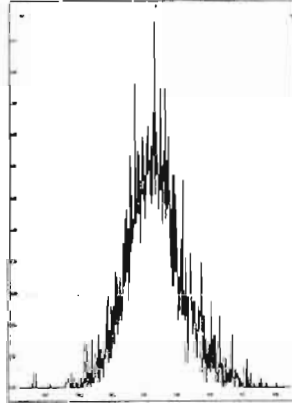
M 392.9760 R 11208



M 404.9760 R 11961



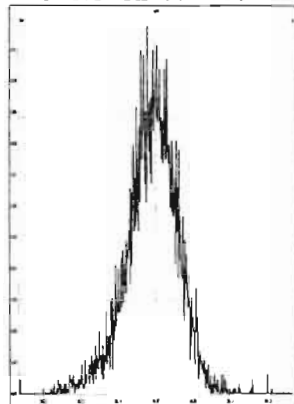
M 416.9760 R 12955



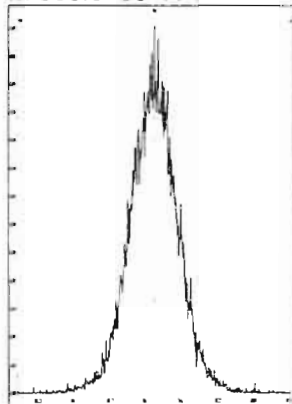
File: Experiment: OCDD_DIOXIN.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Thursday, December 03, 2020 10:33:04 Pacific Standard Time

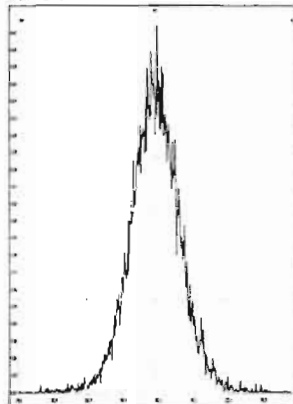
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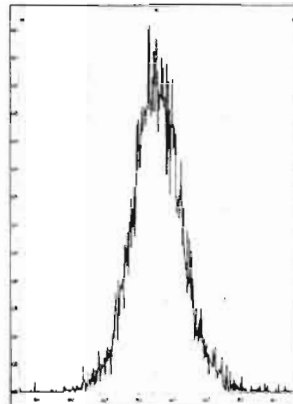
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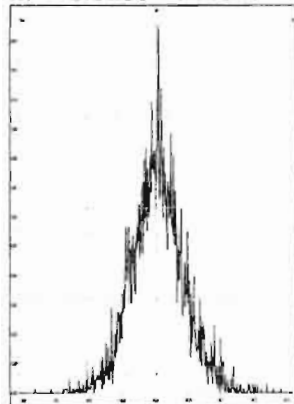
M 392.9760 R 12498



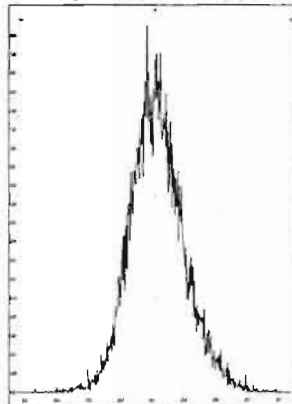
M 404.9760 R 11845



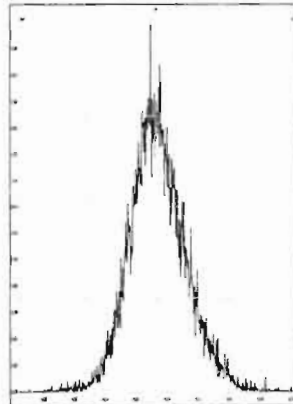
M 416.9760 R 11847



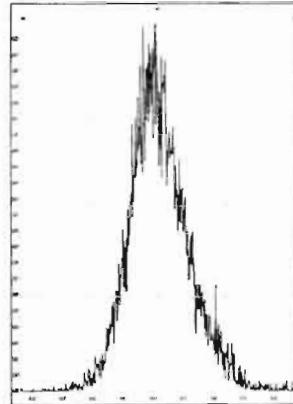
M 430.9728 R 11063



M 442.9728 R 10593



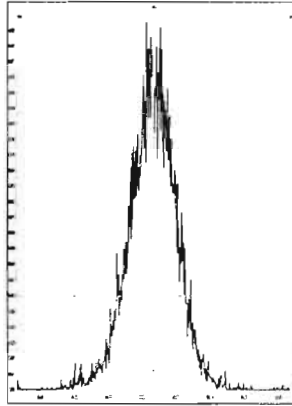
M 454.9728 R 10546



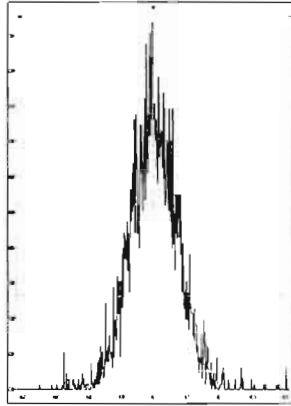
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Printed: Thursday, December 03, 2020 10:33:57 Pacific Standard Time

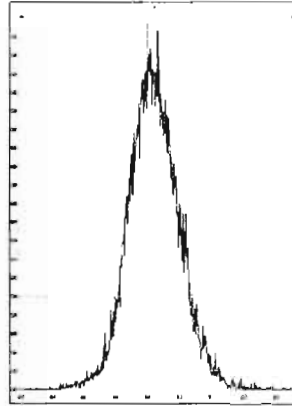
M 404.9760 R 13017



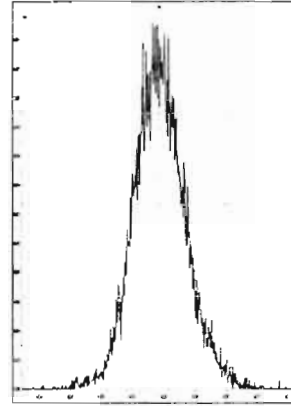
M 416.9760 R 13586



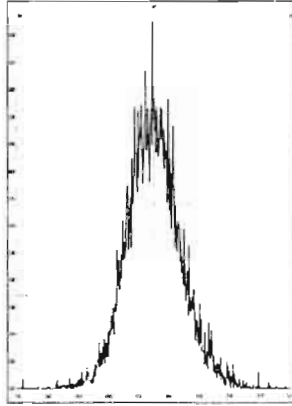
M 430.9728 R 12313



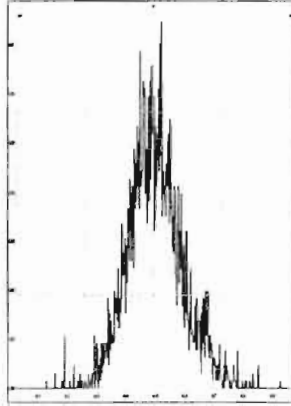
M 442.9728 R 11682



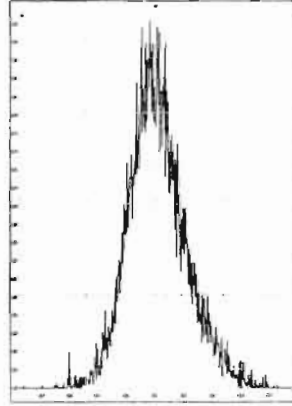
M 454.9728 R 11681



M 466.9728 R 11679



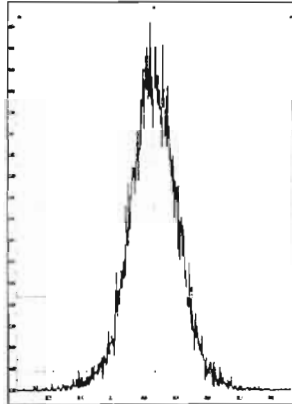
M 480.9696 R 11363



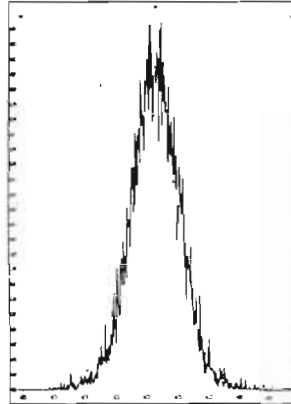
File: Experiment: OCDD_DIOXIN.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Thursday, December 03, 2020 10:34:39 Pacific Standard Time

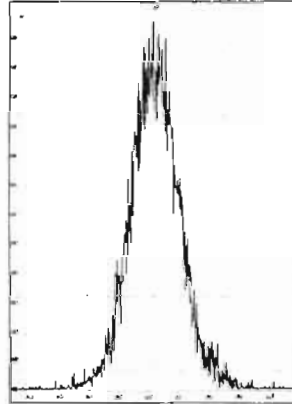
M 430.9728 R 13441



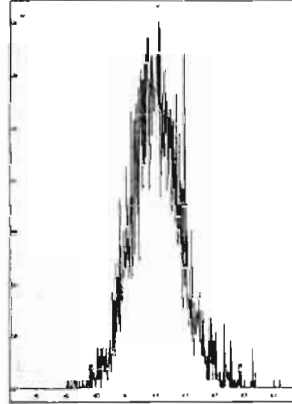
M 442.9728 R 12952



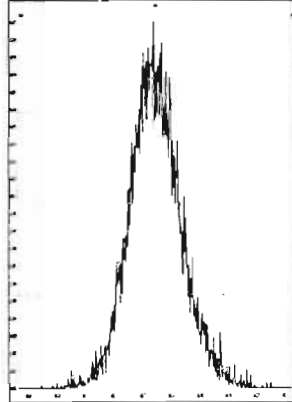
M 454.9728 R 12687



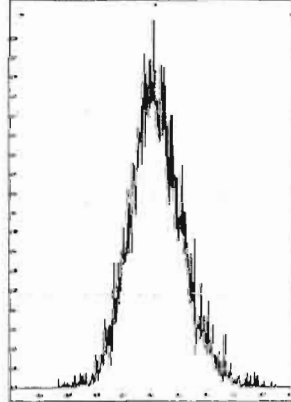
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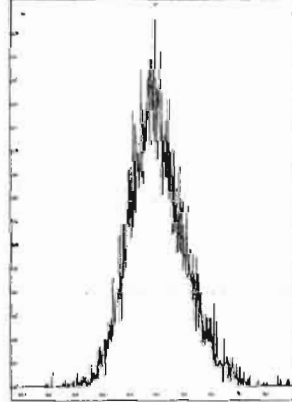
M 480.9696 R 12021



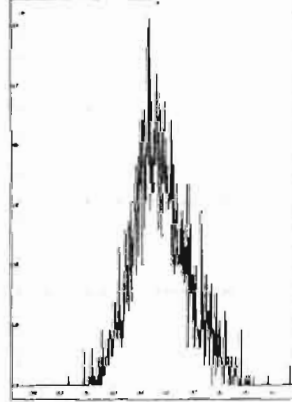
M 492.9696 R 11261



M 504.9696 R 11060



M 516.9697 R 12438



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CPSM.qld

Last Altered: Friday, December 04, 2020 12:03:49 Pacific Standard Time

Printed: Friday, December 04, 2020 12:04:34 Pacific Standard Time

Method: Untitled 10 Nov 2020 10:04:22

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201203R2_6, Date: 03-Dec-2020, Time: 14:35:05, ID: ST201203R2_6 1613 CS3 20L0301, Description: 1613 CS3 20L0301

#	Name	RT
1	1 1,3,6,8-TCDD (First)	22.09
2	2 1,2,8,9-TCDD (Last)	26.90
3	3 1,2,4,7,9-PeCDD (First)	28.47
4	4 1,2,3,8,9-PeCDD (Last)	31.09
5	5 1,2,4,6,7,9-HxCDD (First)	32.42
6	6 1,2,3,7,8,9-HxCDD (Last)	34.43
7	7 1,2,3,4,6,7,9-HpCDD (First)	36.85
8	8 1,2,3,4,6,7,8-HpCDD (Last)	37.91
9	9 1,3,6,8-TCDF (First)	19.89
10	10 1,2,8,9-TCDF (Last)	27.21
11	11 1,3,4,6,8-PeCDF (First)	26.78
12	12 1,2,3,8,9-PeCDF (Last)	31.47
13	13 1,2,3,4,6,8-HxCDF (First)	31.90
14	14 1,2,3,7,8,9-HxCDF (Last)	34.92
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.48
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.54

Dataset: Untitled

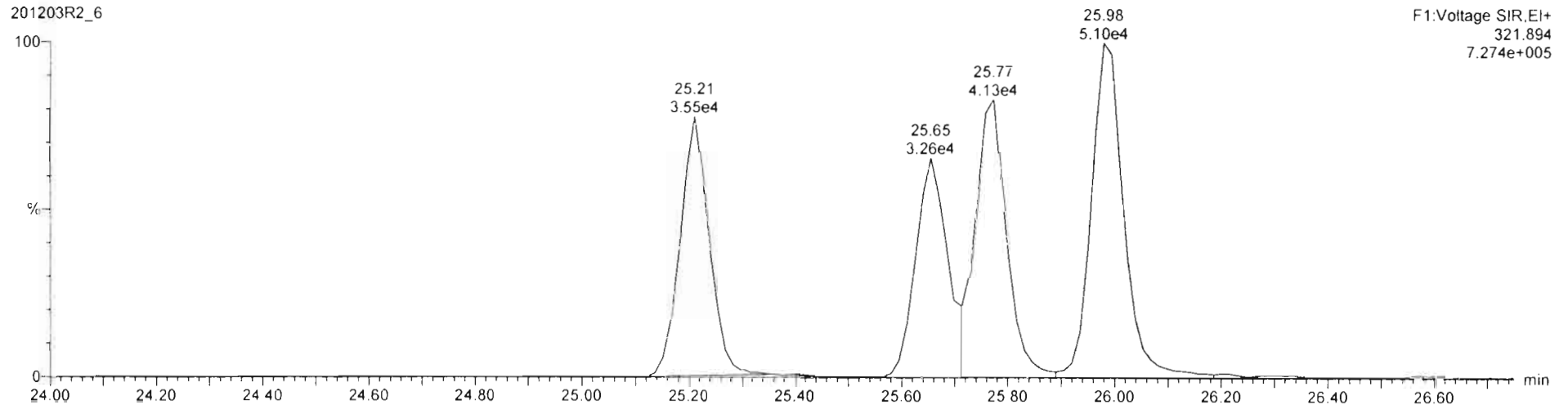
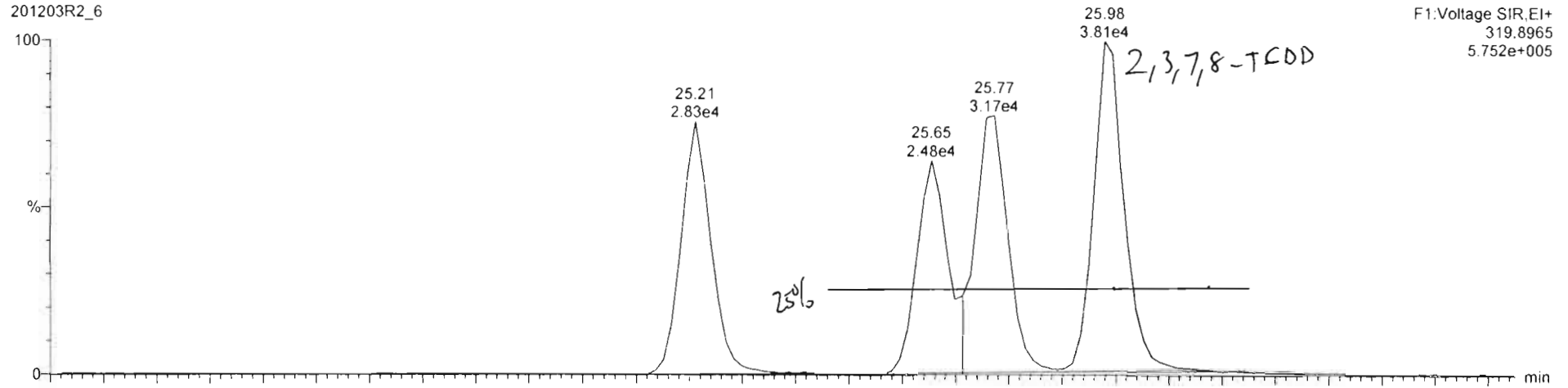
Last Altered: Friday, December 04, 2020 12:14:23 Pacific Standard Time
Printed: Friday, December 04, 2020 12:21:02 Pacific Standard Time

HN 12/04/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 10 Nov 2020 10:04:22
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201203R2_6, Date: 03-Dec-2020, Time: 14:35:05, ID: ST201203R2_6 1613 CS3 20L0301, Description: 1613 CS3 20L0301

1,3,6,8-TCDD (First)
201203R2_6



Dataset: Untitled

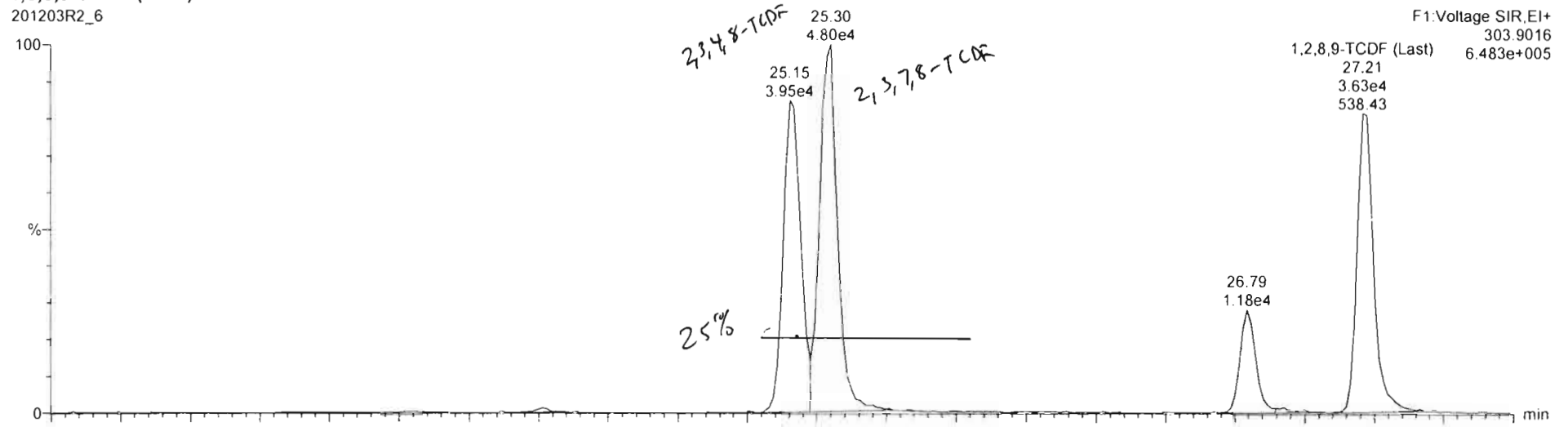
Last Altered: Friday, December 04, 2020 12:14:23 Pacific Standard Time
Printed: Friday, December 04, 2020 12:21:02 Pacific Standard Time

FIN 12/04/2020

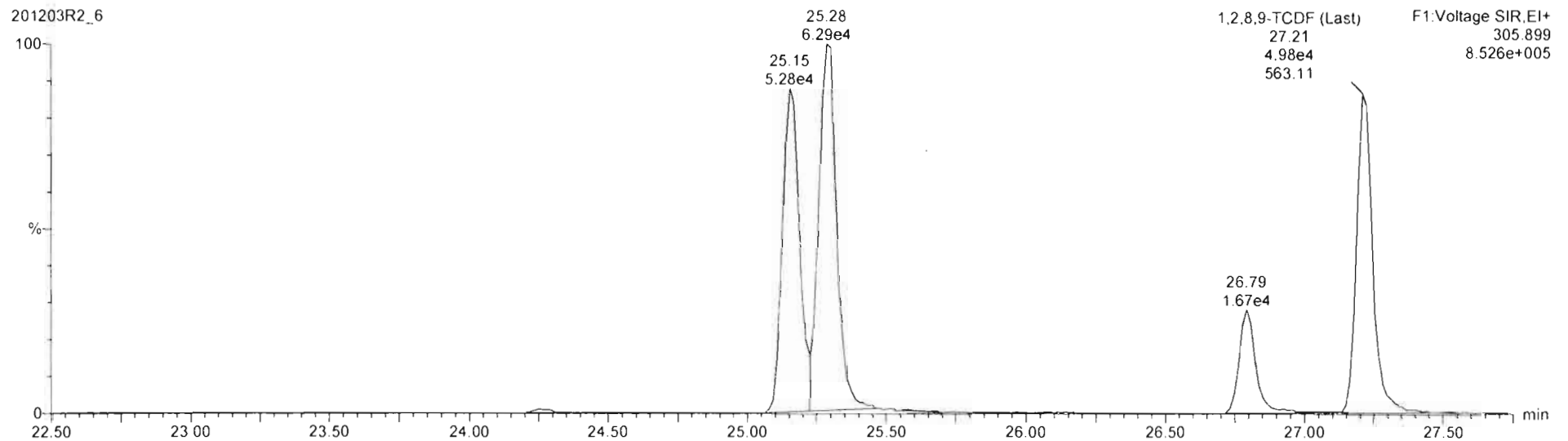
Name: 201203R2_6, Date: 03-Dec-2020, Time: 14:35:05, ID: ST201203R2_6 1613 CS3 20L0301, Description: 1613 CS3 20L0301

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

201203R2_6



201203R2_6



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

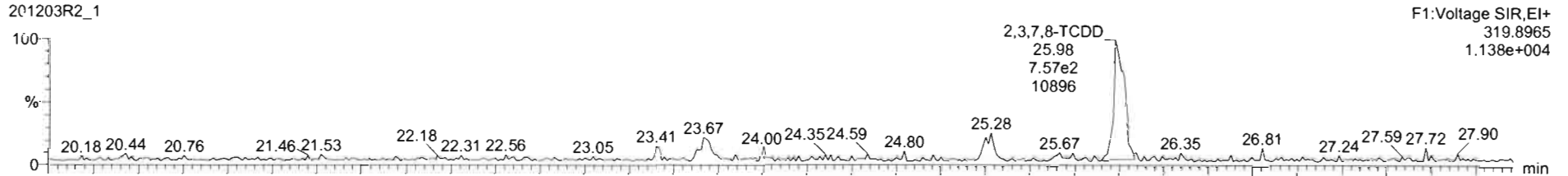
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-11-11-20.mdb 12 Nov 2020 07:51:39
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 08:58:11

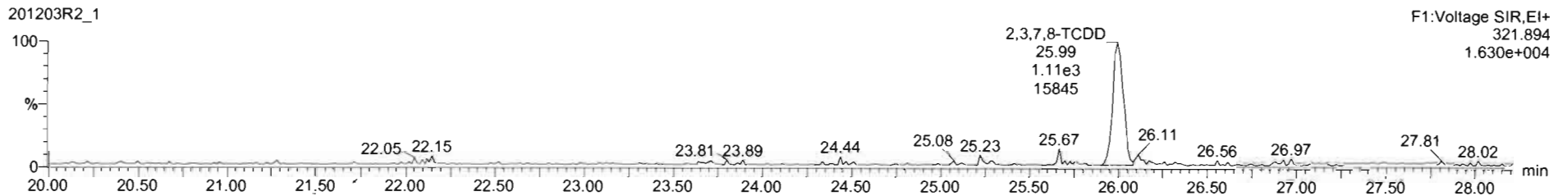
Name: 201203R2_1, Date: 03-Dec-2020, Time: 10:36:45, ID: ST201203R2_1 1613 CS0 20K1901, Description: 1613 CS0 20K1901

2,3,7,8-TCDD

201203R2_1

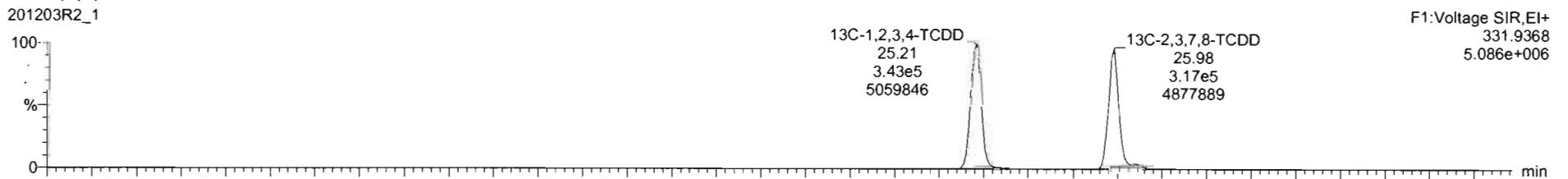


201203R2_1

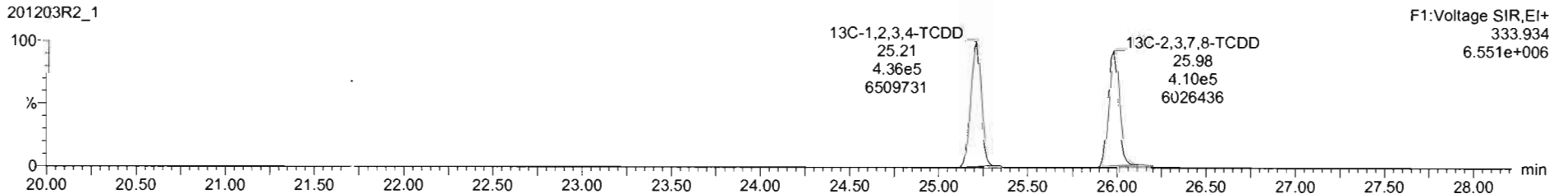


¹³C-2,3,7,8-TCDD

201203R2_1



201203R2_1

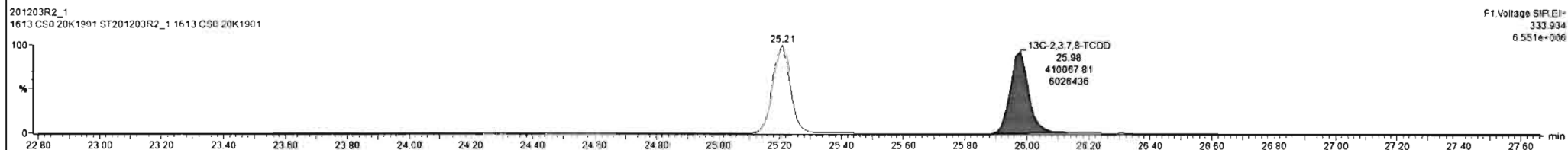
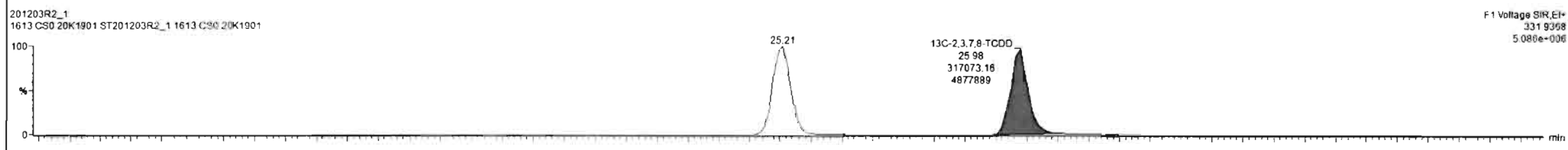
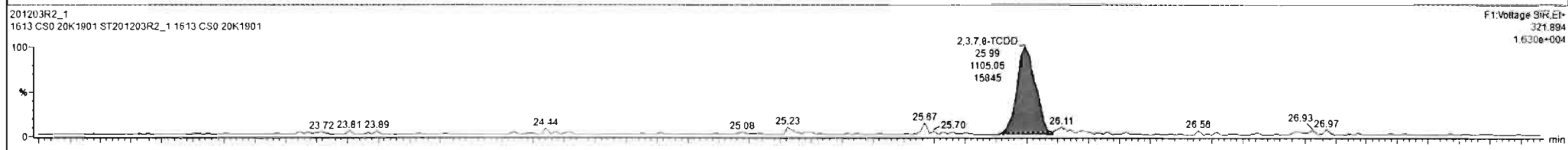
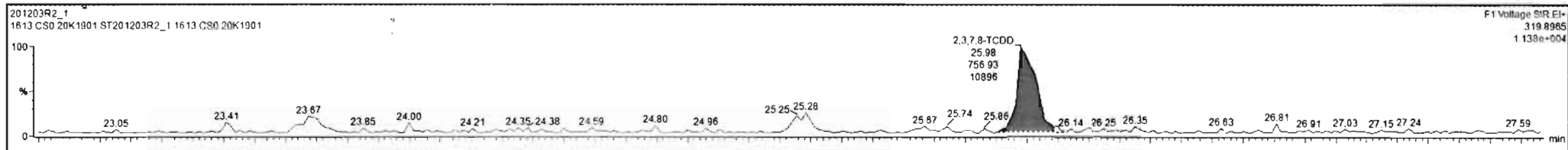


TargetLynx - 201203R2_CRV.qtd - [Chromatogram]

File Edit View Display Processing Window Help

201203R2_1 - ST201203R2_1 1613 CS0 20K1901 1613 CS0 20K1901

#	Name	Resp	RA	aly	RRF	wVvol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.89e3	8.89	NO	0.98	1.000	25.98	1.000	0.251	104	0.0193	0.261
2	1,2,3,7,8-PeCDD	6.50e3	0.56	NO	0.93	1.000	30.74	1.000	1.35	108	0.0457	1.35
3	1,2,3,4,7,8-HxCDD	4.47e3	1.21	NO	1.02	1.000	34.05	1.001	1.23	98.8	0.0497	1.24
4	1,2,3,6,7,8-HxCDD	5.01e3	1.19	NO	0.96	1.000	34.17	1.000	1.30	104	0.0494	1.30
5	1,2,3,7,8,9-HxCDD	5.15e3	1.32	NO	0.96	1.000	34.44	1.001	1.29	103	0.0532	1.29
6	1,2,3,4,6,7,8-HpCDD	3.95e3	1.05	NO	0.92	1.000	37.91	1.000	1.34	107	0.0798	1.34
7	OCDD	6.00e3	0.83	NO	0.87	1.000	40.81	1.000	2.50	99.9	0.0550	2.50
8	2,3,7,8-TCDF	2.48e3	0.73	NO	0.85	1.000	25.31	1.001	0.272	109	0.0114	0.272
9	1,2,3,7,8-PeCDF	9.71e3	1.56	NO	0.95	1.000	29.48	1.000	1.28	103	0.0334	1.28
10	1,2,3,7,8-HxCDF	1.88e3	1.67	NO	1.07	1.000	34.66	1.000	1.37	106	0.0494	1.37



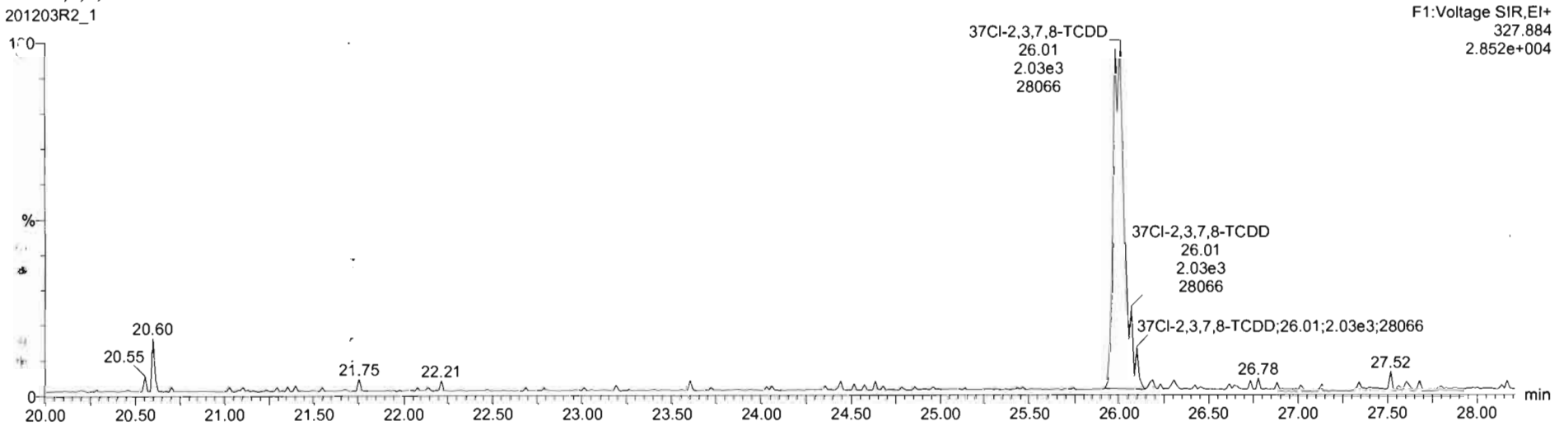
201203R2_1 CAP NUM

Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

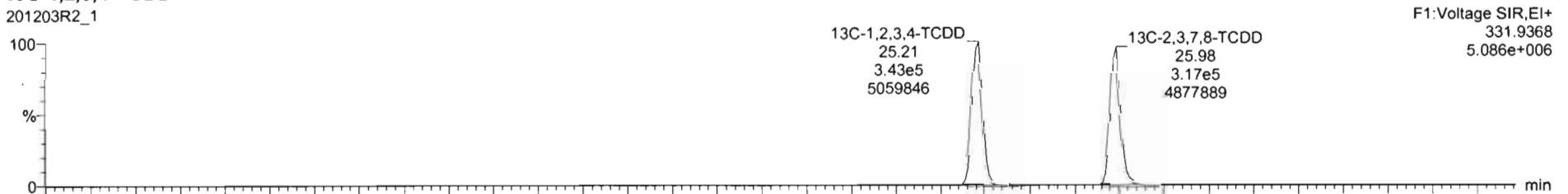
Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_1, Date: 03-Dec-2020, Time: 10:36:45, ID: ST201203R2_1 1613 CS0 20K1901, Description: 1613 CS0 20K1901

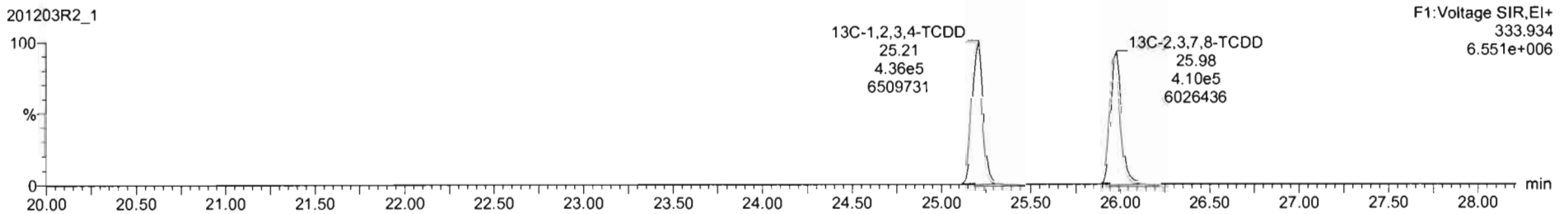
37Cl-2,3,7,8-TCDD
201203R2_1



13C-1,2,3,4-TCDD
201203R2_1



201203R2_1



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

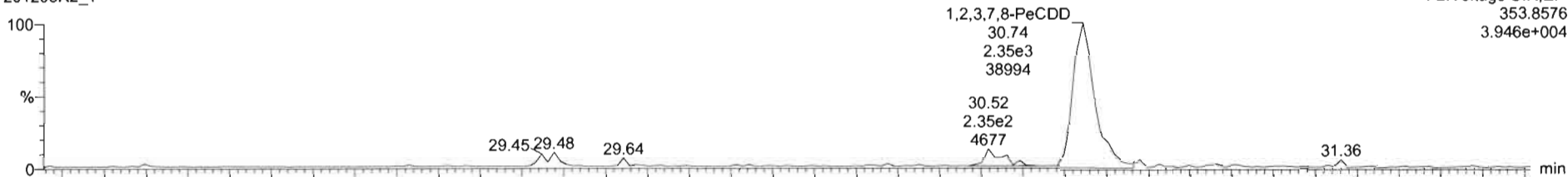
Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time

Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

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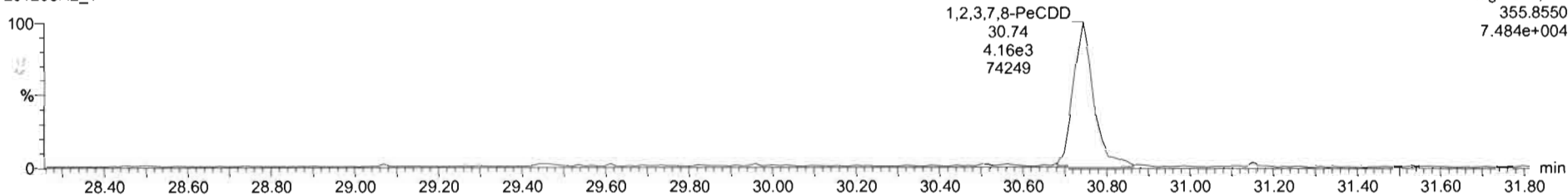
1,2,3,7,8-PeCDD

201203R2_1



F2: Voltage SIR, EI+
353.8576
3.946e+004

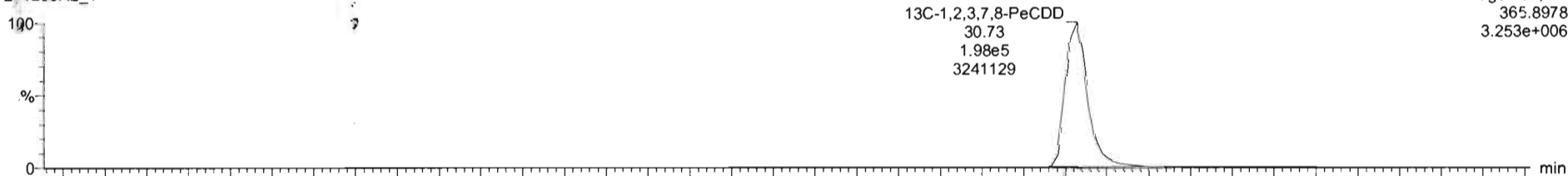
201203R2_1



F2: Voltage SIR, EI+
355.8550
7.484e+004

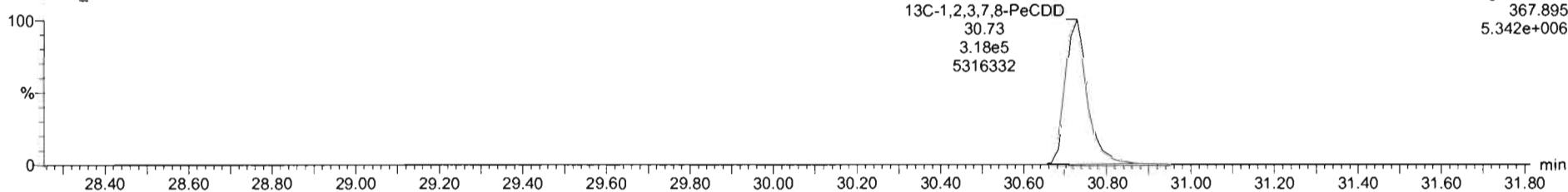
13C-1,2,3,7,8-PeCDD

201203R2_1



F2: Voltage SIR, EI+
365.8978
3.253e+006

201203R2_1



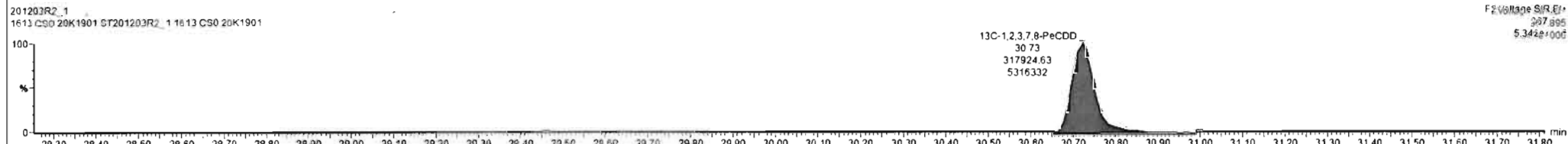
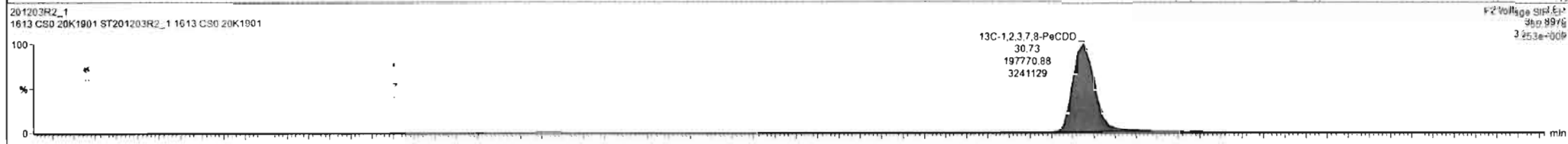
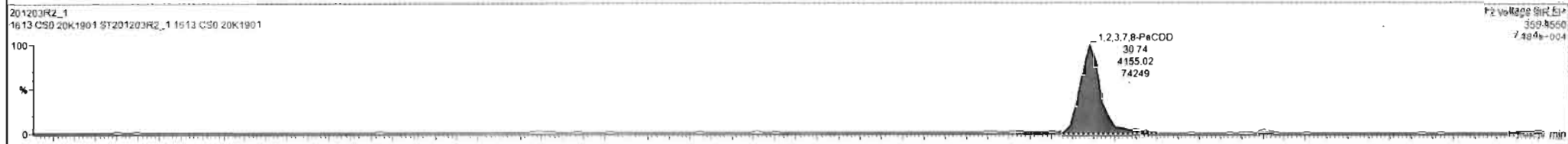
F2: Voltage SIR, EI+
367.895
5.342e+006

Target: yms - 201203R2_CIV.qtd - Chromatogram

File Edit View Display Processing Window Help

201203R2_1 - ST201203R2_1 1613 CS0 20K1901 1613 CS0 20K1901

#	Name	Resp	RA	isy	RRF	wt/wgt	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.86e3	0.69	NO	0.96	1.000	25.98	1.000	0.261	104	0.0193	0.261
2	1,2,3,7,8-PeCDD	6.50e3	0.56	NO	0.93	1.000	30.74	1.000	1.35	108	0.0457	1.35
3	1,2,3,4,7,8-HxCDD	4.47e3	1.21	NO	1.02	1.000	34.05	1.001	1.23	98.8	0.0497	1.24
4	1,2,3,6,7,8-HxCDD	5.01e3	1.19	NO	0.90	1.000	34.17	1.000	1.30	104	0.0494	1.30
5	1,2,3,7,8,9-HxCDD	5.15e3	1.32	NO	0.96	1.000	34.44	1.001	1.29	103	0.0532	1.29
6	1,2,3,4,6,7,8-HpCDD	3.95e3	1.05	NO	0.92	1.000	37.91	1.000	1.34	107	0.0798	1.34
7	OCDD	6.00e3	0.83	NO	0.87	1.000	40.81	1.000	2.50	99.9	0.0550	2.50
8	2,3,7,8-TCDF	2.48e3	0.73	NO	0.85	1.000	25.31	1.001	0.272	109	0.0114	0.272
9	1,2,3,7,8-PeCDF	9.71e3	1.56	NO	0.96	1.000	29.48	1.000	1.28	103	0.0334	1.28



Regch 201203R2_1 CAP NUM

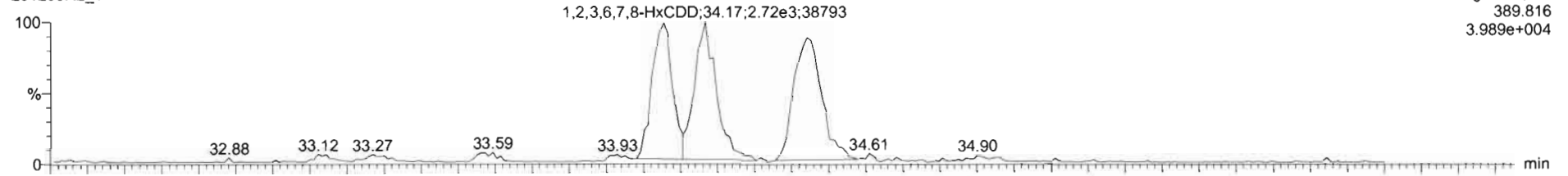
Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

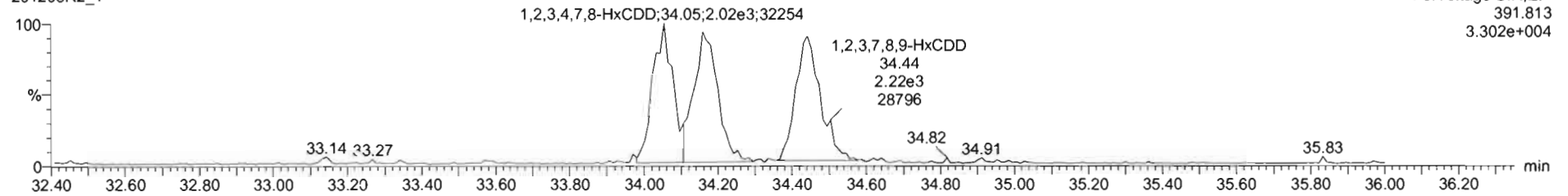
Name: 201203R2_1, Date: 03-Dec-2020, Time: 10:36:45, ID: ST201203R2_1 1613 CS0 20K1901, Description: 1613 CS0 20K1901

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

201203R2_1

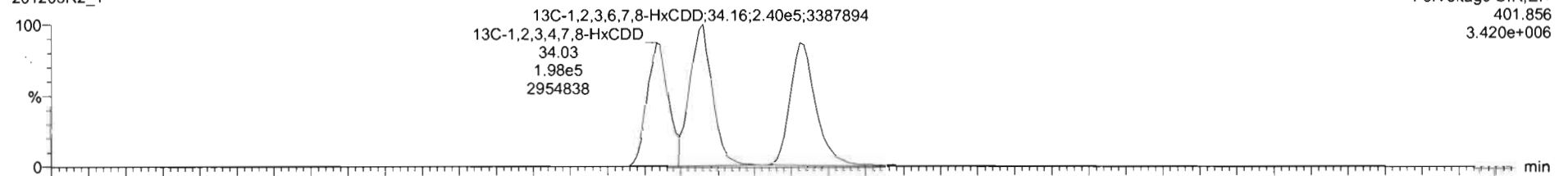


201203R2_1

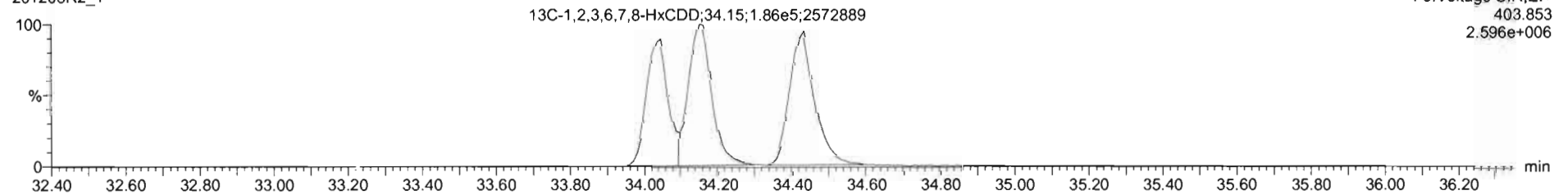


¹³C-1,2,3,4,7,8-HxCDD

201203R2_1



201203R2_1

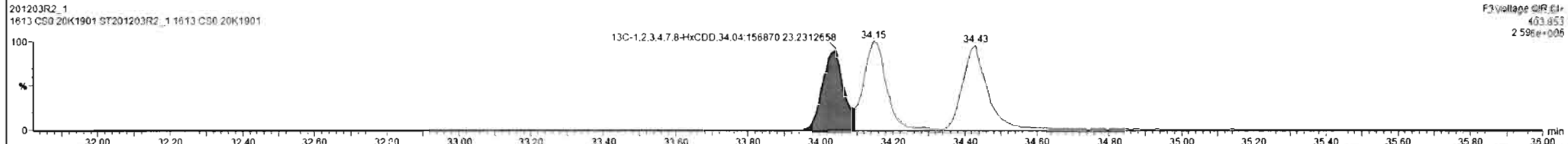
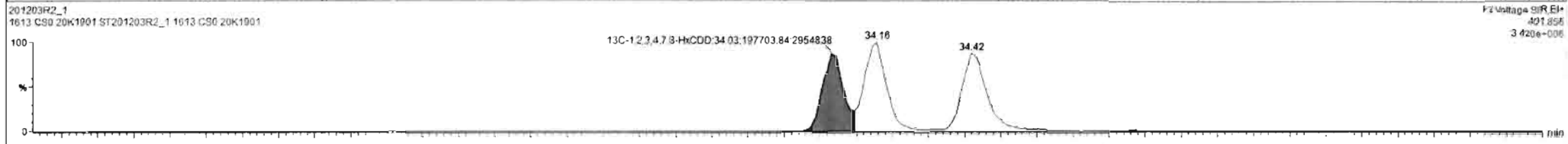
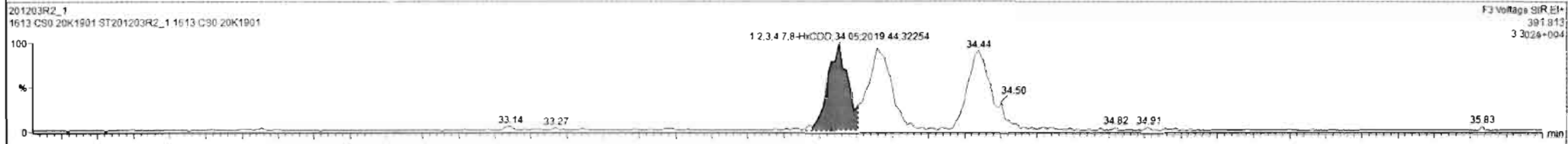
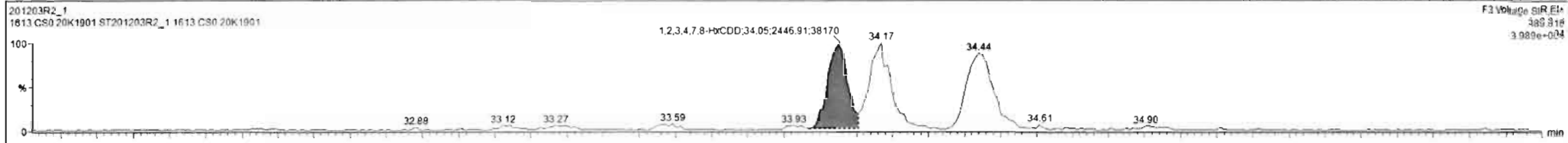


TargetLynx - 201203R2_CRV.qld - [Chromatogram]

File Edit View Display Processing Window Help

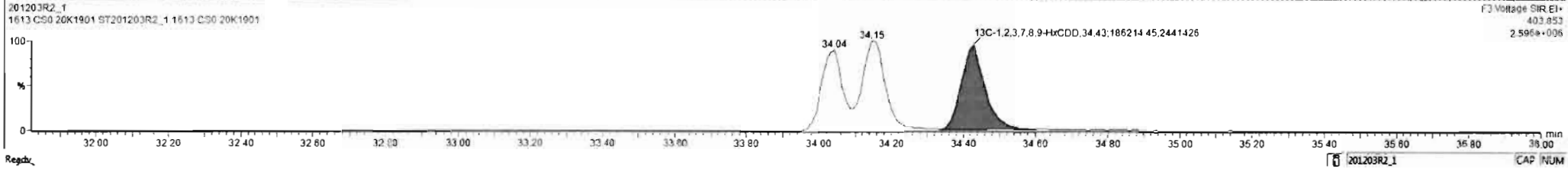
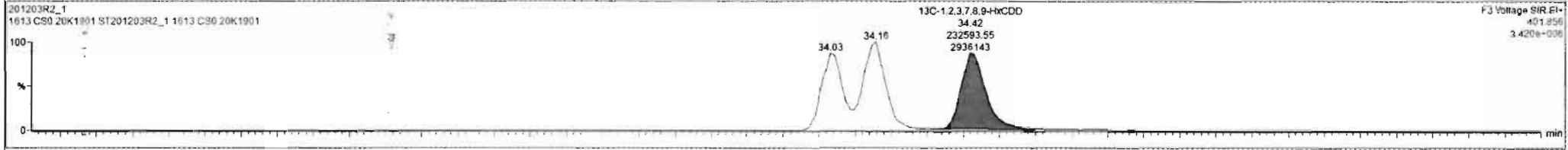
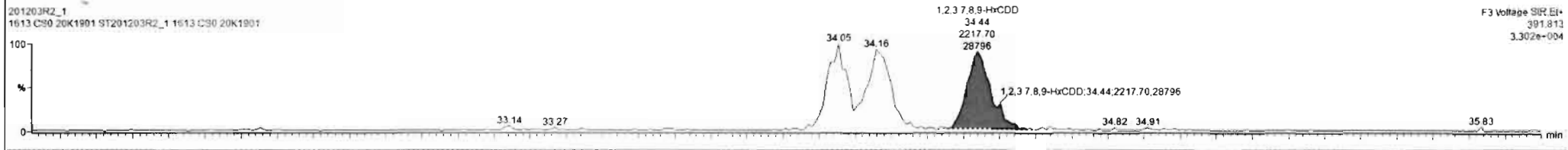
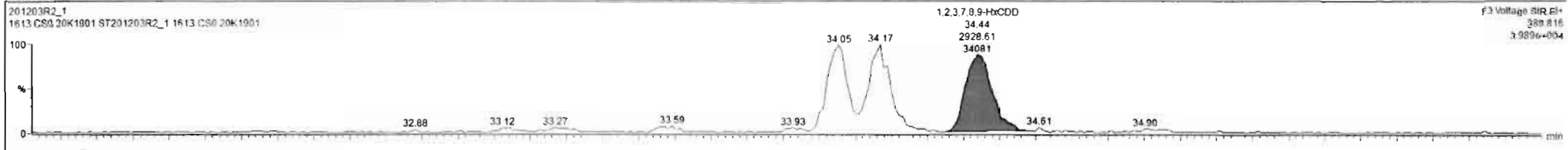
201203R2_1 - ST201203R2_1 1613 CS0 20K1901 - 1613 CS0 20K1901

Name	Resp	RA	My	RRF	wWtd	RT	RRT	Conc	%Rec	CL	EMPC
1 2,3,7,8-TCDD	1.86e3	0.69	NO	0.98	1.000	25.88	1.000	0.261	104	0.0193	0.261
2 1,2,3,7,8-PeCDD	6.50e3	0.56	NO	0.93	1.000	30.74	1.000	1.35	108	0.0457	1.35
3 1,2,3,4,7,8-HxCDD	4.47e3	1.21	NO	1.02	1.000	34.72	1.001	1.23	98.8	0.0497	1.24
4 1,2,3,6,7,8-HxCDD	5.01e3	1.19	NO	0.90	1.000	34.17	1.000	1.30	104	0.0494	1.30
5 1,2,3,7,8,9-HxCDD	5.15e3	1.32	NO	0.96	1.000	34.44	1.001	1.29	103	0.0532	1.29
6 1,2,3,4,6,7,8-HpCDD	3.95e3	1.05	NO	0.92	1.000	37.91	1.000	1.34	107	0.0798	1.34
7 OCDD	6.00e3	0.83	NO	0.87	1.000	40.81	1.000	2.50	99.9	0.0550	2.50
8 2,3,7,8-TCDF	2.48e3	0.73	NO	0.85	1.000	25.31	1.001	0.272	109	0.0114	0.272
9 1,2,3,7,8-PeCDF	9.71e3	1.56	NO	0.96	1.000	29.48	1.000	1.28	103	0.0334	1.28



Regdy 201203R2_1 CAP NUM

#	Name	Resp	RA	ny	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.86e3	0.69	NO	0.98	1.000	25.53	1.000	0.261	104	0.0193	0.261
2	1,2,3,7,8-PeCDD	6.50e3	0.56	NO	0.93	1.000	30.74	1.000	1.35	108	0.0457	1.35
3	1,2,3,4,7,8-HxCDD	4.47e3	1.21	NO	1.02	1.000	34.05	1.001	1.23	98.8	0.0497	1.24
4	1,2,3,6,7,8-HxCDD	5.01e3	1.19	NO	0.90	1.000	34.17	1.000	1.30	104	0.0494	1.30
5	1,2,3,7,8,9-HxCDD	5.15e3	1.32	NO	0.96	1.000	34.44	1.001	1.29	103	0.0532	1.29
6	1,2,3,4,6,7,8-HxCDD	3.95e3	1.05	NO	0.92	1.000	37.91	1.000	1.34	107	0.0798	1.34
7	DiCDD	6.00e3	0.63	NO	0.87	1.000	40.81	1.000	2.50	99.9	0.0550	2.50
8	2,3,7,8-TCDF	2.48e3	0.73	NO	0.85	1.000	25.31	1.001	0.272	109	0.0114	0.272
9	1,2,3,7,8-PeCDF	9.71e3	1.56	NO	0.96	1.000	29.48	1.000	1.28	103	0.0334	1.28



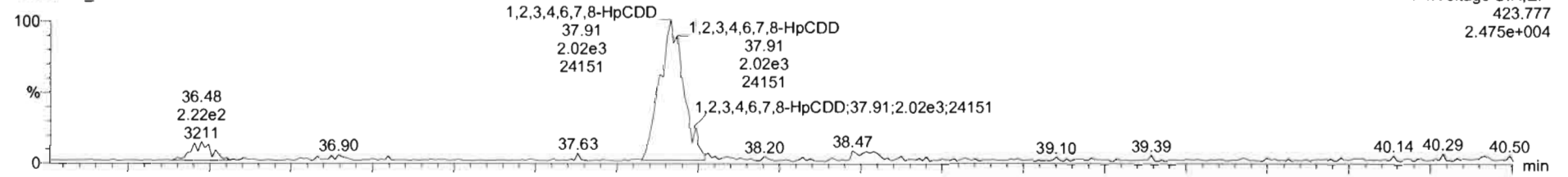
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

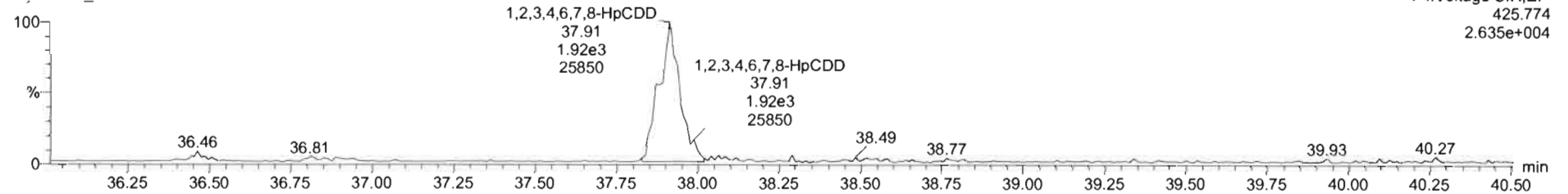
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1,2,3,4,6,7,8-HpCDD

201203R2_1

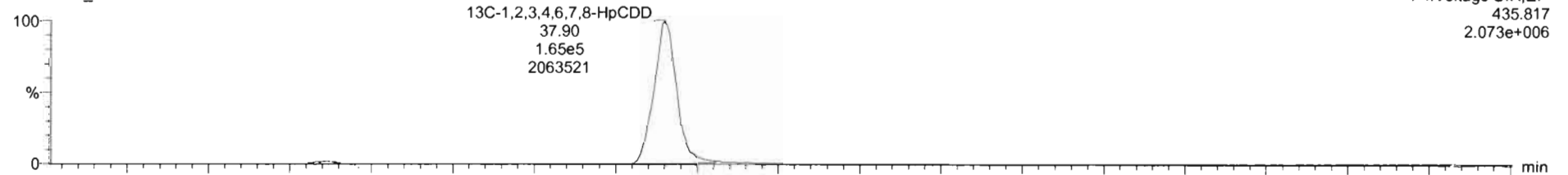


201203R2_1

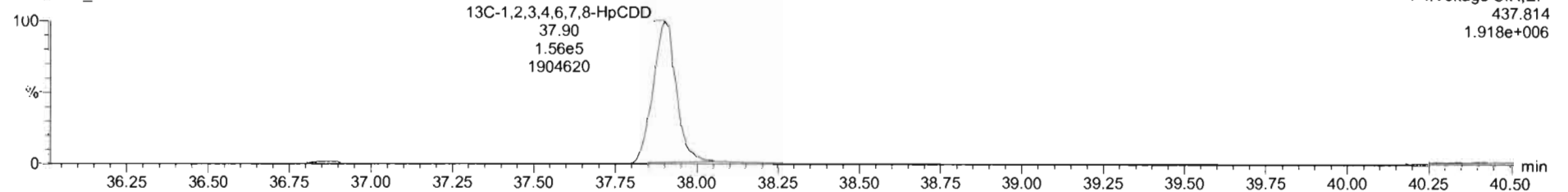


13C-1,2,3,4,6,7,8-HpCDD

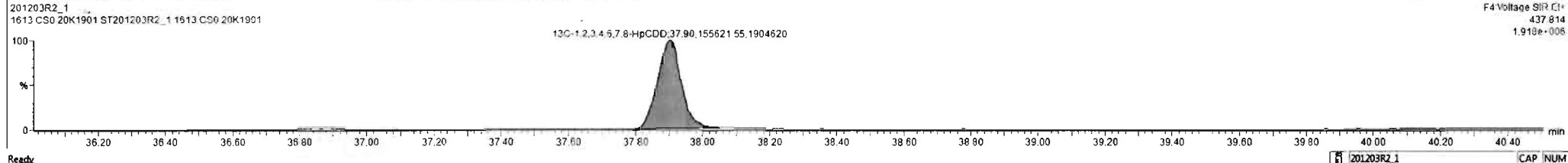
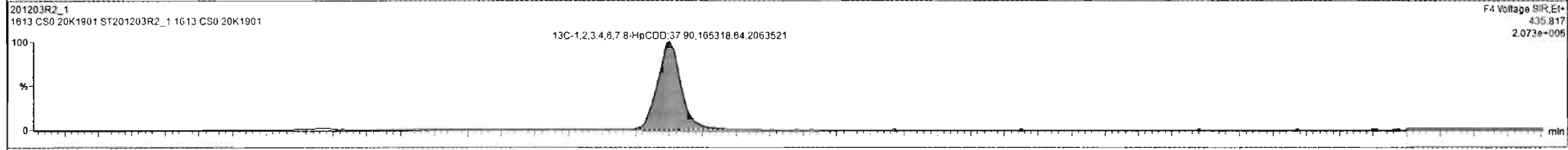
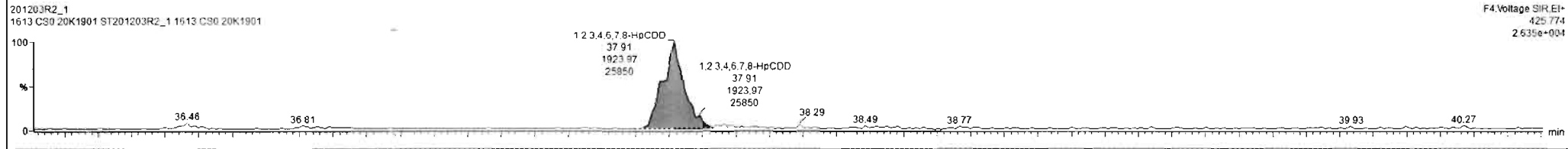
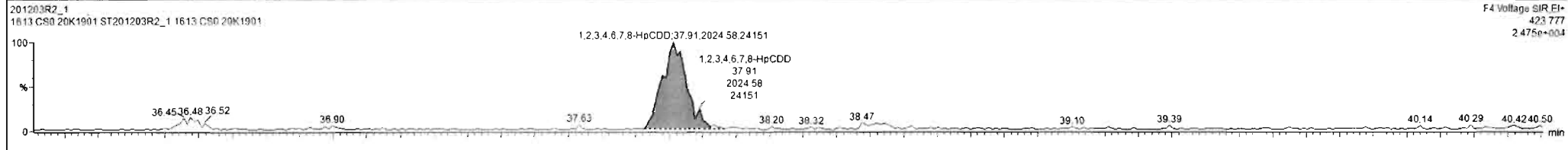
201203R2_1



201203R2_1



Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.86e3	0.69	NO	0.98	1.000	25.98	1.000	0.261	104	0.0193	0.261
2 1,2,3,7,8-PeCDD	6.50e3	0.56	NO	0.93	1.000	30.74	1.000	1.35	108	0.0457	1.35
3 1,2,3,4,7,8-HxCDD	4.47e3	1.21	NO	1.02	1.000	34.05	1.001	1.23	98.8	0.0497	1.24
4 1,2,3,6,7,8-HxCDD	5.01e3	1.19	NO	0.90	1.000	34.17	1.000	1.30	104	0.0494	1.30
5 1,2,3,7,8,9-HxCDD	5.15e3	1.32	NO	0.96	1.000	34.40	1.001	1.29	103	0.0532	1.29
6 1,2,3,4,6,7,8-HpCDD	3.95e3	1.05	NO	0.92	1.000	37.91	1.000	1.34	107	0.0798	1.34
7 OCDD	6.00e3	0.83	NO	0.87	1.000	40.01	1.000	2.50	99.9	0.0550	2.50
8 2,3,7,8-TCDF	2.48e3	0.73	NO	0.85	1.000	25.31	1.001	0.272	109	0.0114	0.272
9 1,2,3,7,8-PeCDF	9.71e3	1.56	NO	0.96	1.000	29.48	1.000	1.28	103	0.0334	1.28



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

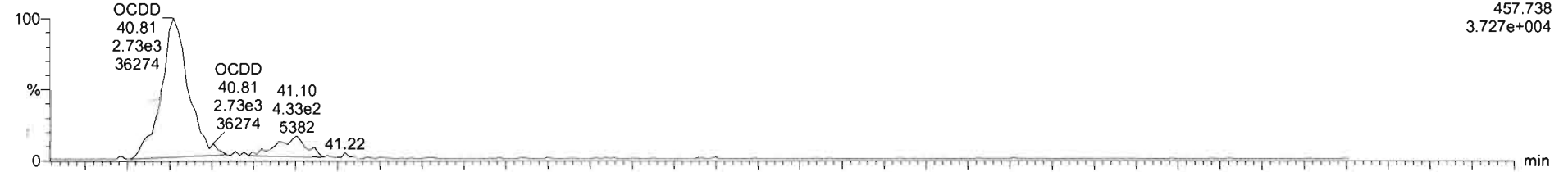
Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time

Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

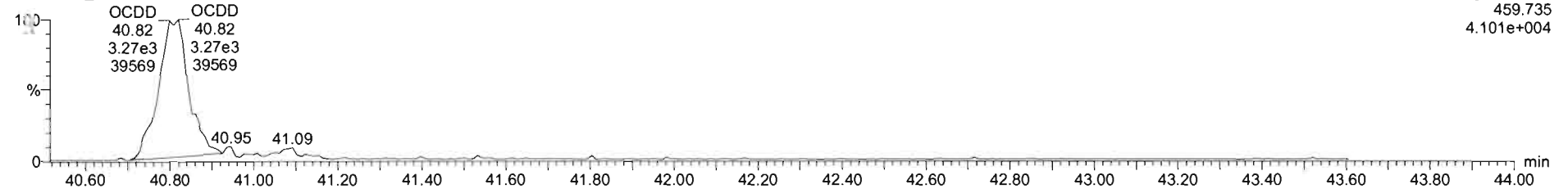
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OCDD

201203R2_1

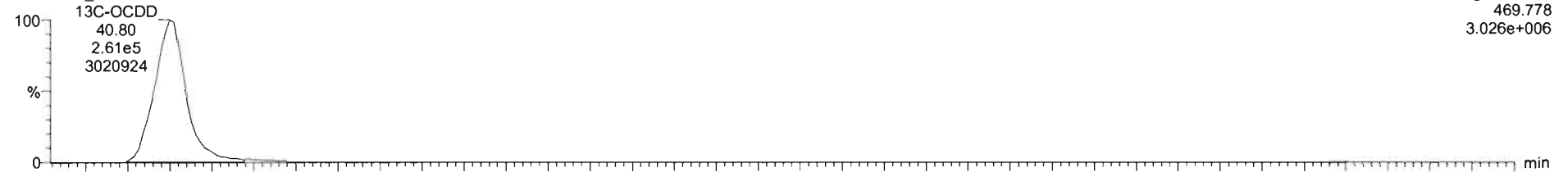


201203R2_1

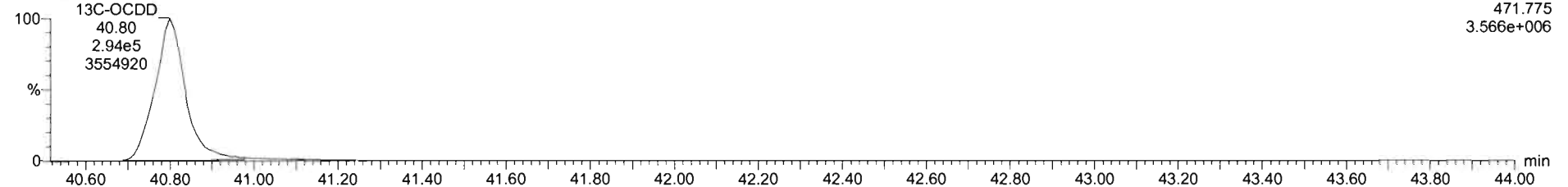


1. C-OCDD

201203R2_1

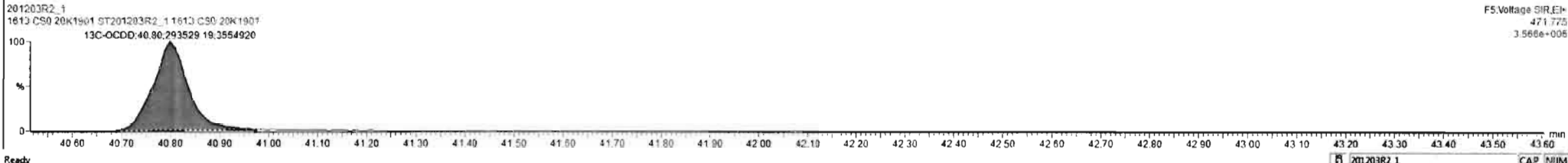


201203R2_1



201203R2_1 - ST201203R2_1 1613 CS0 20K1901 - 1613 CS0 20K1901

Name	Resp	RA	rvy	RRF	wVvol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.86e3	0.69	NO	0.98	1.000	25.98	1.000	0.261	104	0.0193	0.261
2 1,2,3,7,8-PeCDD	6.50e3	0.56	NO	0.93	1.000	30.74	1.000	1.35	108	0.0457	1.35
3 1,2,3,4,7,8-HxCDD	4.47e3	1.21	NO	1.02	1.000	34.05	1.001	1.23	98.8	0.0497	1.24
4 1,2,3,6,7,8-HxCDD	5.01e3	1.19	NO	0.90	1.000	34.1	1.000	1.20	104	0.0494	1.20
5 1,2,3,7,8-HxCDD	5.15e3	1.32	NO	0.96	1.000	34.4	1.001	1.29	103	0.0632	1.29
6 1,2,3,4,6,7,8-HpCDD	3.95e3	1.05	NO	0.92	1.000	37.91	1.000	1.34	107	0.0798	1.24
7 OCDD	6.00e3	0.83	NO	0.87	1.000	40.81	1.000	2.50	99.9	0.0550	2.50
8 2,3,7,8-TCDF	2.48e3	0.73	NO	0.85	1.000	25.31	1.001	0.272	109	0.0114	0.272
9 1,2,3,7,8-PeCDF	9.71e3	1.56	NO	0.95	1.000	29.48	1.000	1.28	103	0.0334	1.28



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

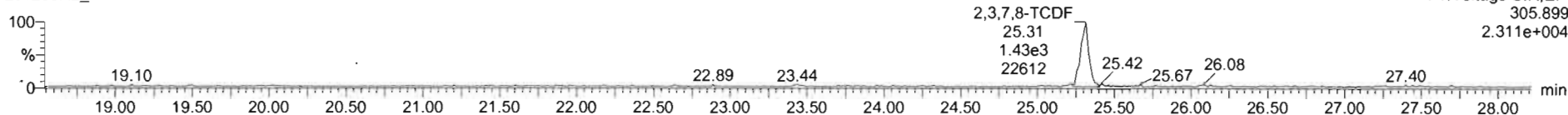
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2,3,7,8-TCDF

201203R2_1

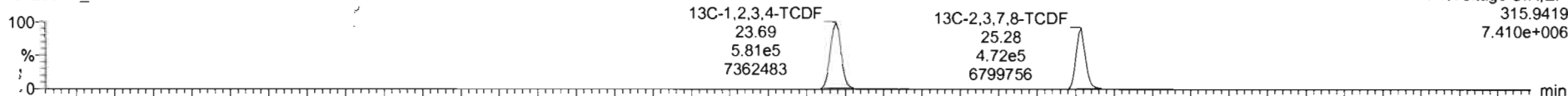


201203R2_1

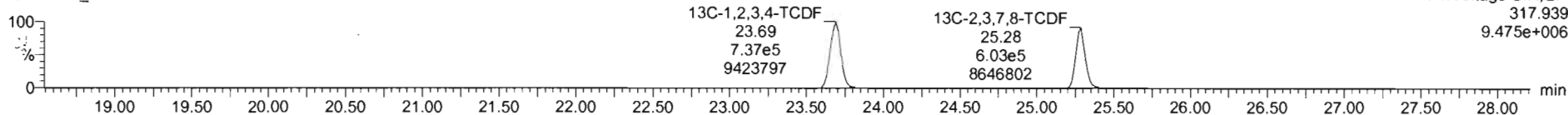


13C-2,3,7,8-TCDF

201203R2_1

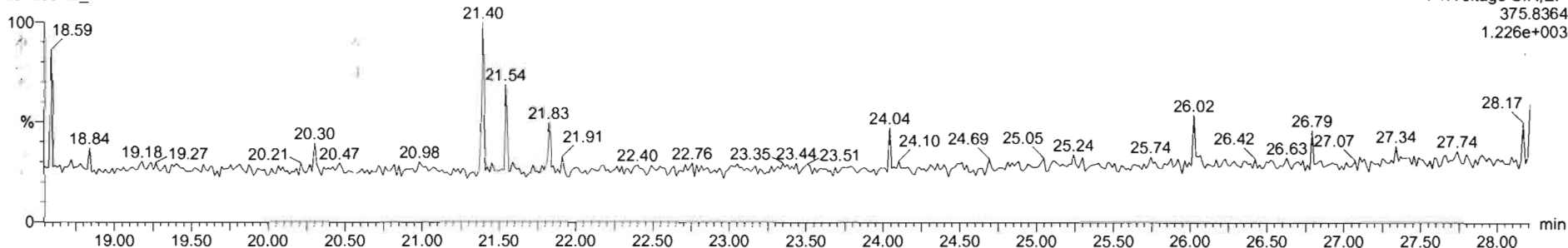


201203R2_1



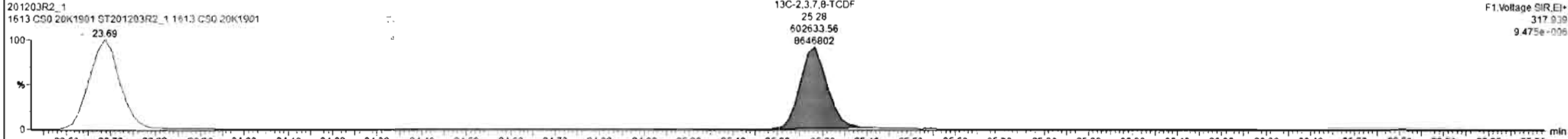
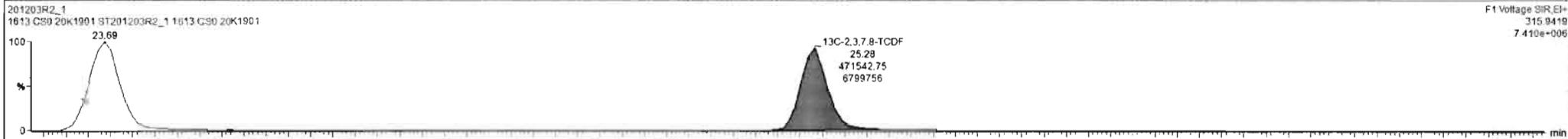
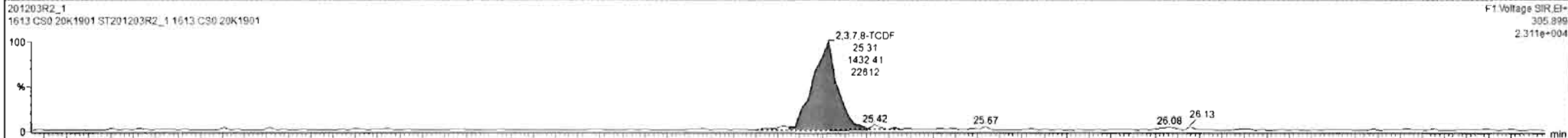
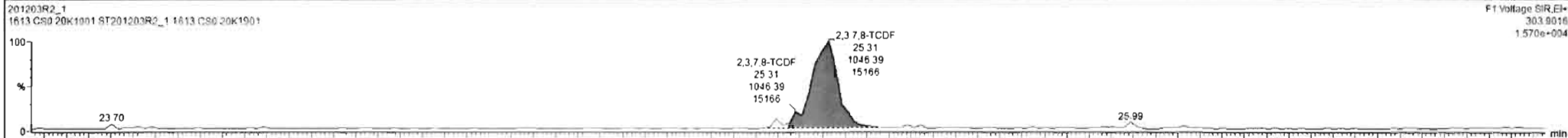
DPE1

201203R2_1



201203R2_1 - ST201203R2_1 1613 CS0 20K1901 - 1613 CS0 20K1901

Sl	Name	Resp	RA	dy	RRF	wt/dwt	RT	RRT	Conc	%Rec	DL	EM/PC
1	2,3,7,8-TCDD	1.86e3	0.69	NO	0.98	1.000	25.90	1.000	0.261	104	0.0193	0.261
2	1,2,3,7,8-PeCDD	6.50e3	0.56	NO	0.93	1.000	30.74	1.000	1.35	105	0.0457	1.35
3	1,2,3,4,7,8-HxCDD	4.47e3	1.21	NO	1.02	1.000	34.05	1.001	1.23	98.8	0.0497	1.24
4	1,2,3,6,7,8-HxCDD	5.01e3	1.19	NO	0.90	1.000	34.17	1.000	1.30	104	0.0494	1.30
5	1,2,3,7,8,9-HxCDD	5.15e3	1.32	NO	0.96	1.000	34.44	1.001	1.29	103	0.0532	1.29
6	1,2,3,4,6,8-HxCDD	3.95e3	1.05	NO	0.92	1.000	37.91	1.000	1.34	107	0.0798	1.34
7	OCDD	6.00e3	0.83	NO	0.87	1.000	40.87	1.000	2.50	99.9	0.0550	2.50
8	2,3,7,8-TCDF	2.45e3	0.73	NO	0.85	1.000	25.31	1.001	0.272	109	0.0114	0.272
9	1,2,3,7,8-PeCDF	9.71e3	1.56	NO	0.96	1.000	29.48	1.000	1.26	103	0.0334	1.28



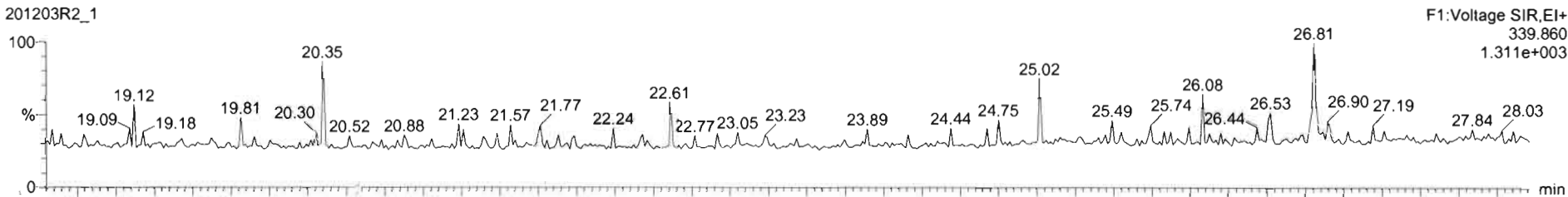
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

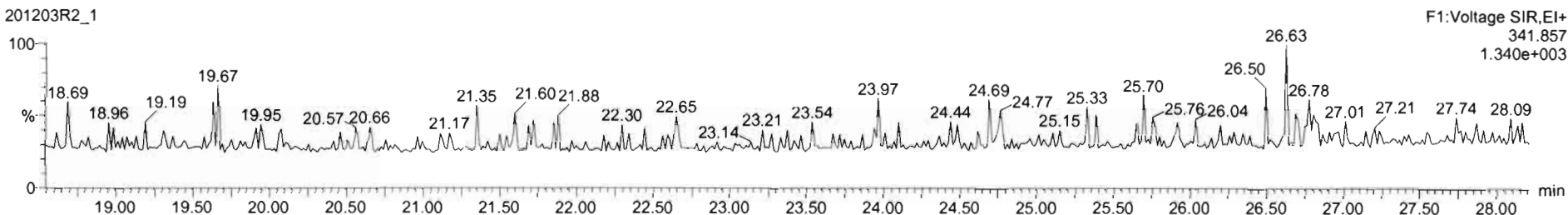
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201203R2_1

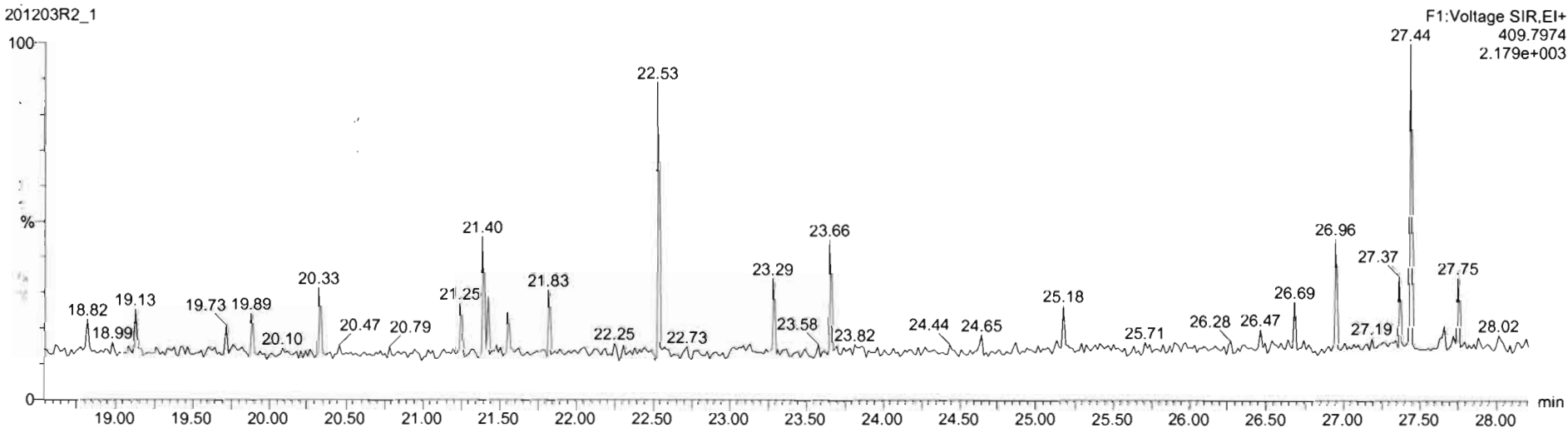


201203R2_1



DPE6

201203R2_1



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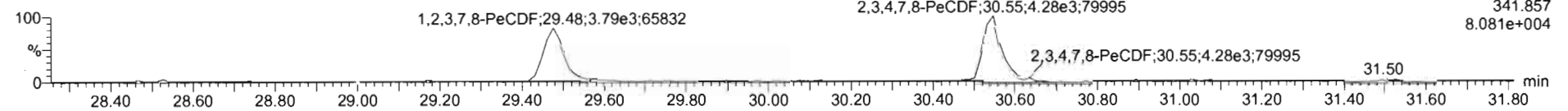
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1,2,3,7,8-PeCDF

201203R2_1

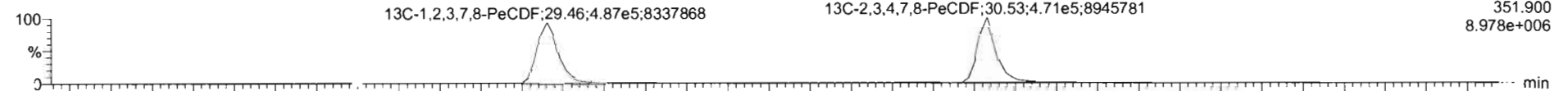


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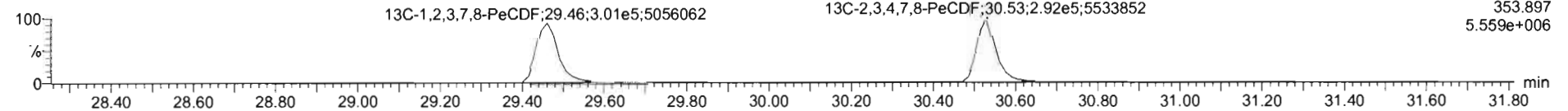


13C-1,2,3,7,8-PeCDF

201203R2_1

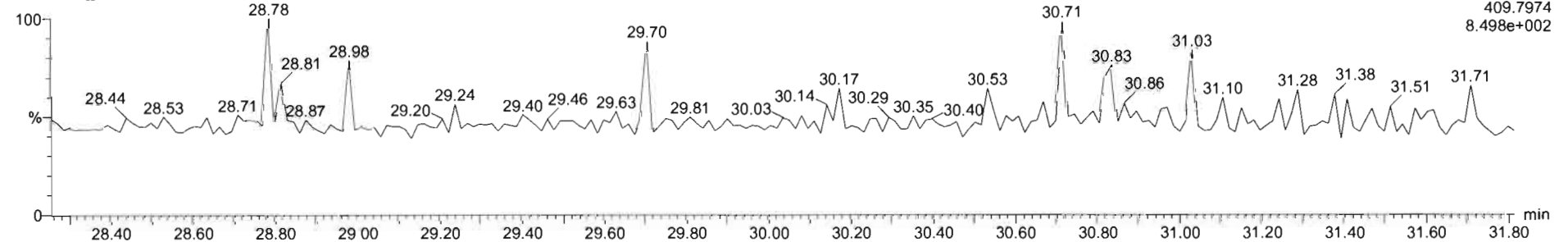


201203R2_1



DPE2

201203R2_1

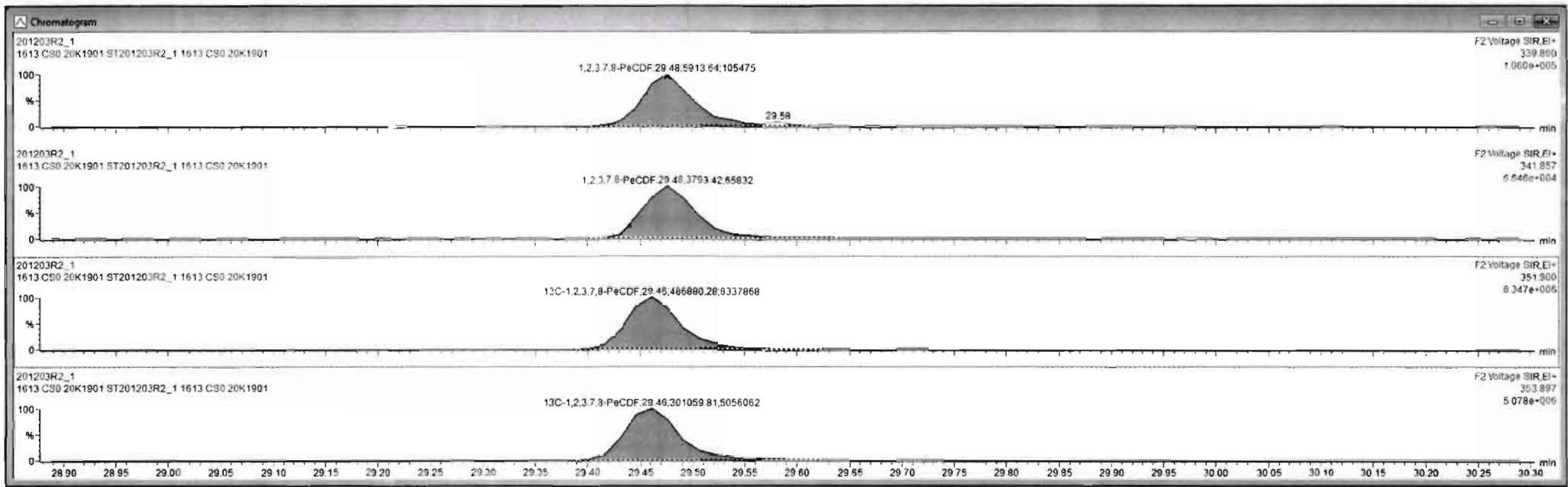


TargetLynx - 201203R2_CRV.qld

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201203R2_1 - ST201203R2_1 1613 CS0 20K1901 - 1613 CS0 20K1901

Name	Resp	RA	xy	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
9 1,2,3,7,8-PeCDF	9.71e3	1.58	NO	0.96	1.000	29.48	1.000	1.28	103	0.0334	1.28
10 2,3,4,7,8-PeCDF	1.08e4	1.52	NO	1.07	1.000	30.55	1.000	1.32	106	0.0280	1.33
11 1,2,3,4,7,8-HxCDF	8.18e3	1.29	NO	0.99	1.000	33.15	1.001	1.22	97.3	0.0645	1.22
12 1,2,3,6,7,8-HxCDF	7.32e3	1.27	NO	1.04	1.000	33.29	1.001	1.29	103	0.0598	1.29
13 2,3,4,6,7,8-HxCDF	6.57e3	1.25	NO	1.02	1.000	33.95	1.001	1.31	105	0.0726	1.31
14 1,2,3,7,8,9-HxCDF	5.61e3	1.28	NO	0.99	1.000	34.94	1.001	1.33	106	0.107	1.33
15 1,2,3,4,6,7,8-HpCDF	5.72e3	1.07	NO	1.05	1.000	36.49	1.000	1.28	102	0.0420	1.28
16 1,2,3,4,7,8,9-HpCDF	4.14e3	0.89	NO	1.18	1.000	38.55	1.000	1.28	102	0.0519	1.28
17 OCDF	7.18e3	0.93	NO	0.90	1.000	41.09	1.000	2.61	105	0.3981	2.62
18 13C-2,3,7,8-TCDD	7.27e5	0.77	NO	1.06	1.000	25.95	1.031	88.4	58.4	0.118	
19 13C-1,2,3,7,8-PeCDD	5.16e5	0.62	NO	0.78	1.000	30.73	1.219	84.3	84.3	0.347	
20 13C-1,2,3,4,7,8-HxCDD	3.55e5	1.26	NO	0.62	1.000	34.03	1.014	89.2	89.2	0.276	
21 13C-1,2,3,6,7,8-HxCDD	4.26e5	1.29	NO	0.73	1.000	34.16	1.018	90.7	90.7	0.234	
22 13C-1,2,3,7,8,9-HxCDD	4.19e5	1.25	NO	0.72	1.000	34.42	1.025	90.5	90.5	0.237	



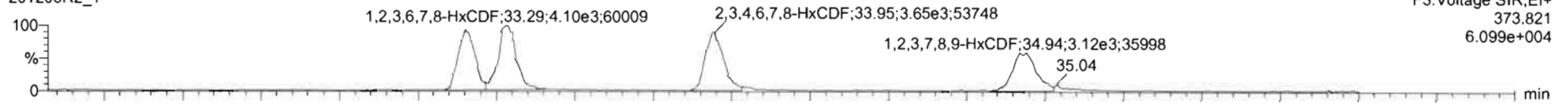
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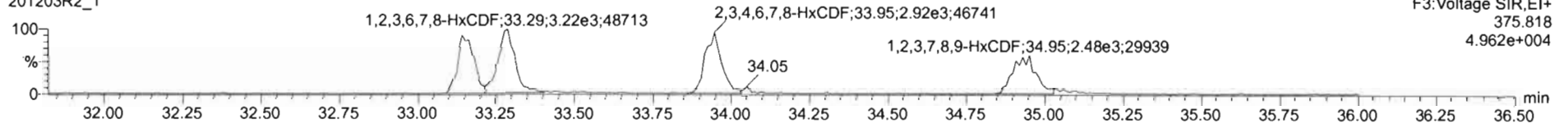
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1,2,3,4,7,8-HxCDF

201203R2_1

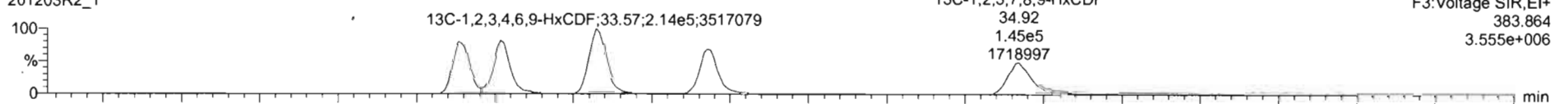


201203R2_1

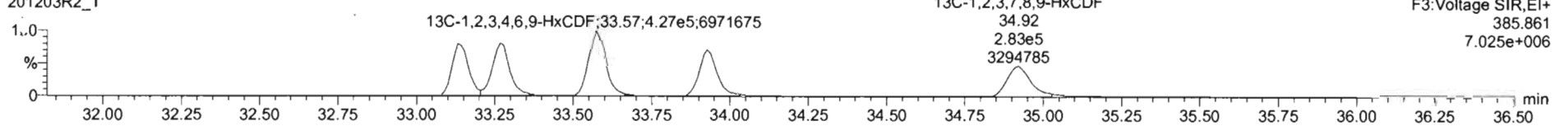


13C-1,2,3,4,7,8-HxCDF

201203R2_1

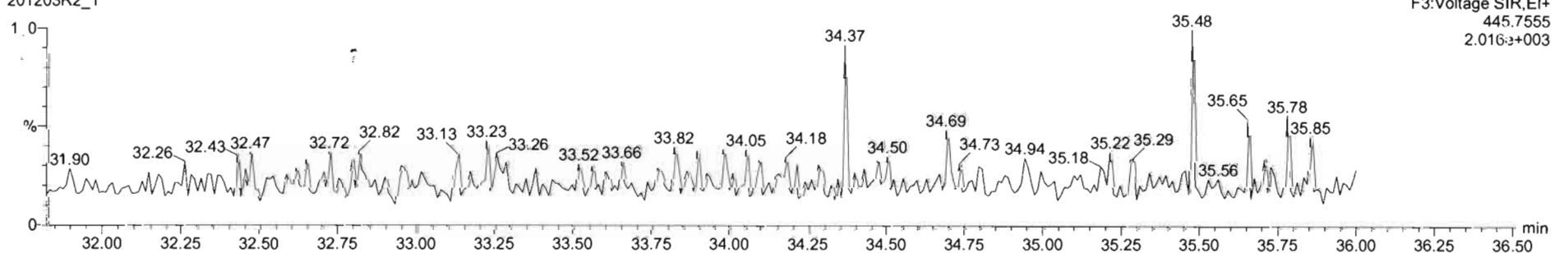


201203R2_1



DPE3

201203R2_1

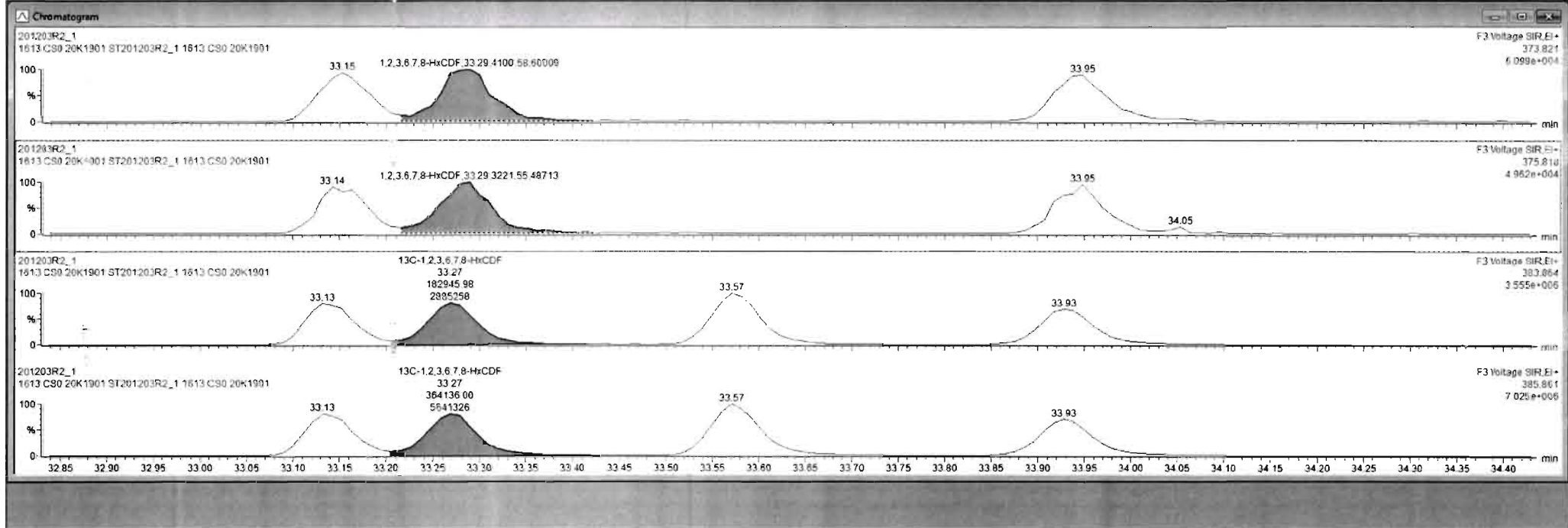


TargetLynx - 201203R2_CRV.qtd

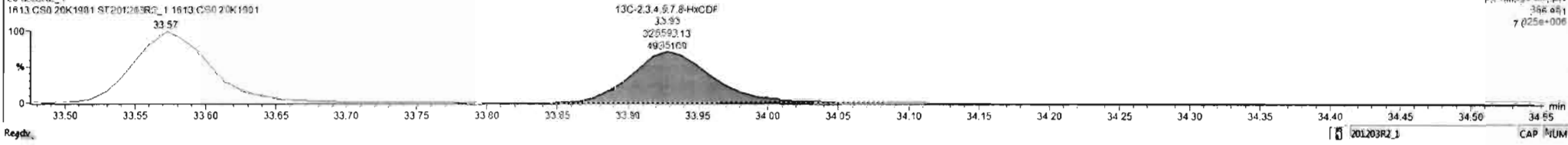
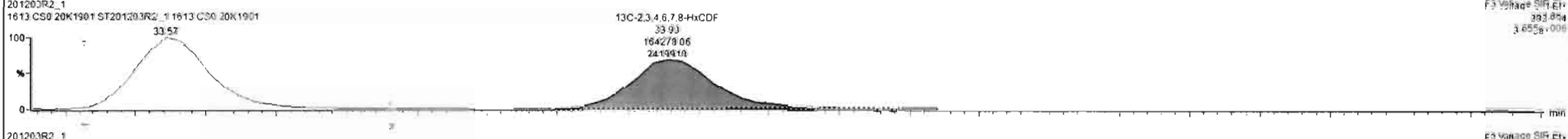
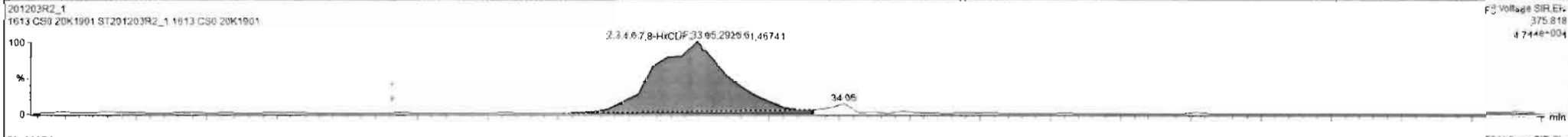
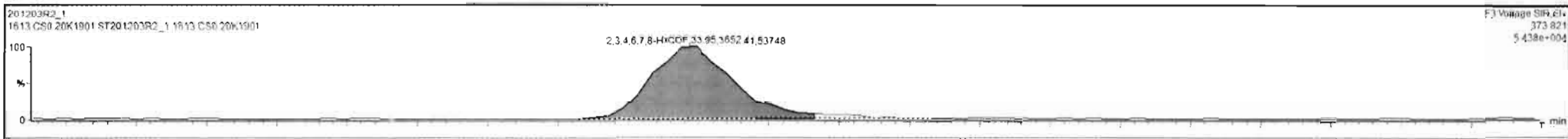
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201203R2_1 - ST201203R2_1 1613 CS0 20K1901 - 1613 CS0 20K1901

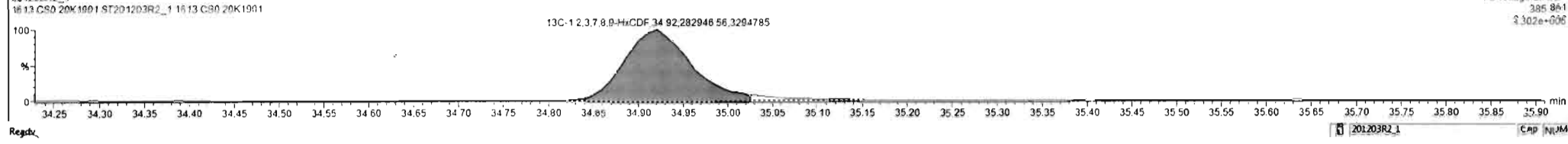
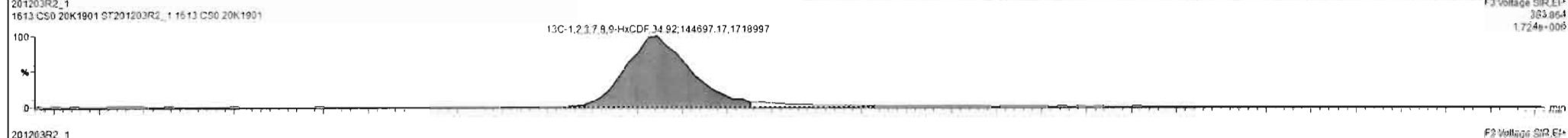
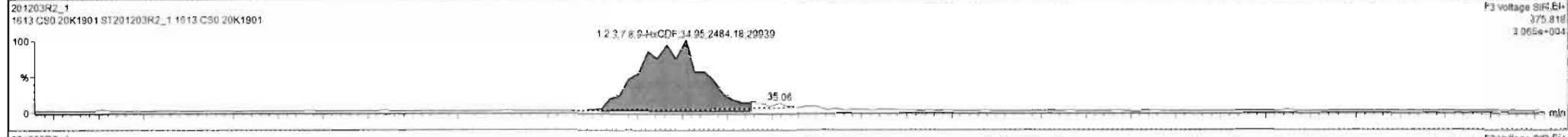
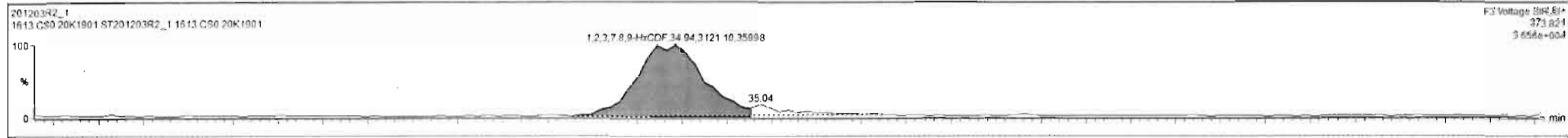
Name	Resp	RA	nHy	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
9 1,2,3,7,8-PeCDF	9.71e3	1.56	NO	0.96	1.000	29.48	1.000	1.28	103	0.0234	1.28
10 2,3,4,7,8-PeCDF	1.08e4	1.52	NO	1.07	1.000	30.55	1.000	1.32	106	0.0280	1.33
11 1,2,3,4,7,8-HxCDF	6.18e3	1.29	NO	0.98	1.000	33.15	1.001	1.22	97.3	0.0845	1.22
12 1,2,3,6,7,8-HxCDF	7.32e3	1.27	NO	1.04	1.000	33.29	1.001	1.29	103	0.0558	1.29
13 2,3,4,6,7,8-HxCDF	6.57e3	1.25	NO	1.02	1.000	33.95	1.001	1.31	105	0.0726	1.31
14 1,2,3,7,8,9-HxCDF	5.81e3	1.26	NO	0.99	1.000	34.94	1.001	1.33	106	0.107	1.33
15 1,2,3,4,6,7,8-HpCDF	5.72e3	1.07	NO	1.05	1.000	36.43	1.000	1.28	102	0.0420	1.28
16 1,2,3,4,7,8,9-HpCDF	4.14e3	0.89	NO	1.18	1.000	38.55	1.000	1.28	102	0.0519	1.28
17 OCDF	7.18e3	0.93	NO	0.90	1.000	41.09	1.000	2.61	105	0.0981	2.62
18 13C-2,3,7,8-TCDD	7.27e5	0.77	NO	1.06	1.000	25.96	1.031	88.4	88.4	0.118	
19 13C-1,2,3,7,8-PeCDD	5.16e5	0.62	NO	0.78	1.000	30.73	1.219	84.3	84.3	0.347	
20 13C-1,2,3,4,7,8-HxCDD	3.55e5	1.26	NO	0.62	1.000	34.03	1.014	89.2	89.2	0.276	
21 13C-1,2,3,6,7,8-HxCDD	4.28e5	1.29	NO	0.73	1.000	34.16	1.018	90.7	90.7	0.234	
22 13C-1,2,3,7,8,9-HxCDD	4.19e5	1.25	NO	0.72	1.000	34.42	1.025	90.5	90.5	0.237	



#	Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	Dt	EMPC
9	1,2,3,7,8-PeCDF	9.71e3	1.56	NO	0.96	1.000	29.48	1.000	1.28	103	0.0334	1.28
10	2,3,4,7,8-PeCDF	1.08e4	1.52	NO	1.07	1.000	30.55	1.000	1.32	106	0.0280	1.33
11	1,2,3,4,7,8-HxCDF	6.18e3	1.29	NO	0.99	1.000	33.15	1.001	1.22	97.3	0.0845	1.22
12	1,2,3,6,7,8-HxCDF	7.32e3	1.27	NO	1.04	1.000	33.29	1.001	1.29	103	0.0598	1.29
13	2,3,4,6,7,8-HxCDF	6.57e3	1.25	NO	1.02	1.000	33.05	1.001	1.31	105	0.0726	1.31
14	1,2,3,7,8,9-HxCDF	5.81e3	1.26	NO	0.99	1.000	34.94	1.001	1.33	106	0.107	1.33
15	1,2,3,4,6,7,8-HpCDF	5.72e3	1.07	NO	1.05	1.000	36.49	1.000	1.28	102	0.0420	1.28
16	1,2,3,4,7,8,9-HpCDF	4.14e3	0.89	NO	1.18	1.000	38.55	1.000	1.28	102	0.0519	1.28
17	OCDF	7.18e3	0.93	NO	0.90	1.000	41.09	1.000	2.61	105	0.0981	2.62
18	13C-2,3,7,8-TCDD	7.27e5	0.77	NO	1.06	1.000	25.98	1.031	86.4	83.4	0.118	
19	13C-1,2,3,7,8-PeCDD	5.16e5	0.62	NO	0.78	1.000	30.73	1.219	84.3	84.3	0.347	
20	13C-1,2,3,4,7,8-HxCDD	3.55e5	1.26	NO	0.62	1.000	34.03	1.014	89.2	89.2	0.276	
21	13C-1,2,3,6,7,8-HxCDD	4.26e5	1.29	NO	0.73	1.000	34.16	1.018	90.7	90.7	0.234	
22	13C-1,2,3,7,8,9-HxCDD	4.19e5	1.25	NO	0.72	1.000	34.42	1.025	90.5	90.5	0.237	



#	Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
9	1,2,3,7,8-PeCDF	9.71e3	1.56	NO	0.96	1.000	29.48	1.000	1.28	103	0.0334	1.28
10	2,3,4,7,8-PeCDF	1.08e4	1.52	NO	1.07	1.000	30.55	1.000	1.32	106	0.0280	1.33
11	1,2,3,4,7,8-HxCDF	6.18e3	1.29	NO	0.99	1.000	33.15	1.001	1.22	97.3	0.0645	1.22
12	1,2,3,6,7,8-HxCDF	7.32e3	1.27	NO	1.04	1.000	33.29	1.001	1.29	103	0.0598	1.29
13	2,3,4,6,7,8-HxCDF	6.57e3	1.25	NO	1.02	1.000	33.95	1.001	1.31	105	0.0726	1.31
14	1,2,3,7,8,9-HxCDF	5.61e3	1.28	NO	0.99	1.000	34.94	1.001	1.33	106	0.107	1.33
15	1,2,3,4,6,7,8-HpCDF	5.72e3	1.07	NO	1.05	1.000	36.09	1.000	1.28	102	0.0420	1.28
16	1,2,3,4,7,8,9-HpCDF	4.14e3	0.89	NO	1.18	1.000	36.55	1.000	1.28	102	0.0519	1.28
17	OCDF	7.18e3	0.93	NO	0.90	1.000	41.09	1.000	2.61	105	0.0981	2.62
18	13C-2,3,7,8-TCDD	7.27e5	0.77	NO	1.06	1.000	25.98	1.031	88.4	88.4	0.118	
19	13C-1,2,3,7,8-PeCDD	5.16e5	0.62	NO	0.78	1.000	30.73	1.219	84.3	84.3	0.347	
20	13C-1,2,3,4,7,8-HxCDD	3.55e5	1.26	NO	0.62	1.000	34.03	1.014	89.2	89.2	0.276	
21	13C-1,2,3,6,7,8-HxCDD	4.26e5	1.29	NO	0.73	1.000	34.16	1.018	90.7	90.7	0.234	
22	13C-1,2,3,7,8,9-HxCDD	4.19e5	1.25	NO	0.72	1.000	34.42	1.025	90.5	90.5	0.237	

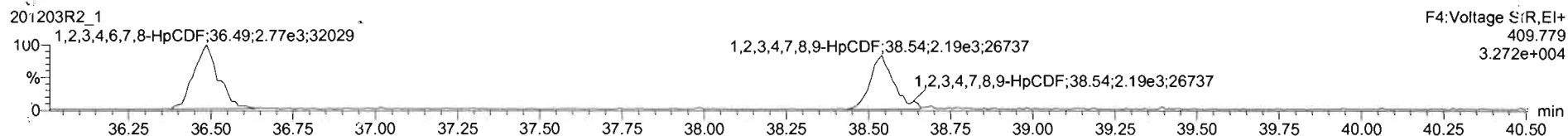
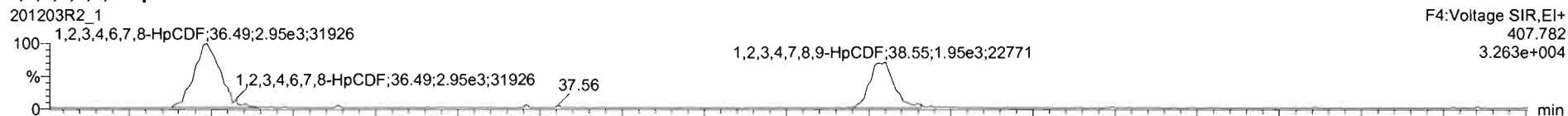


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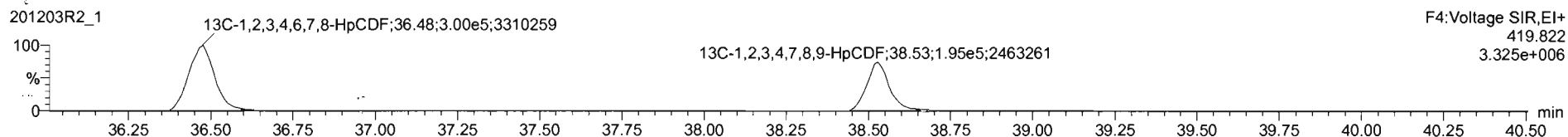
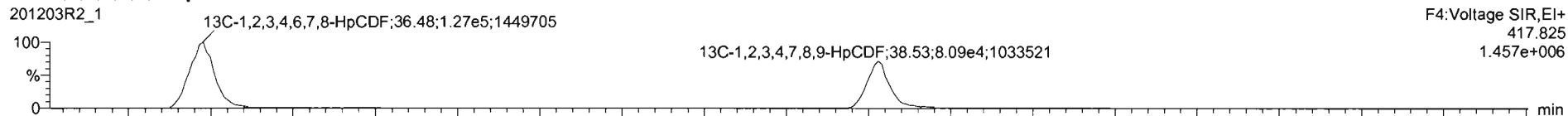
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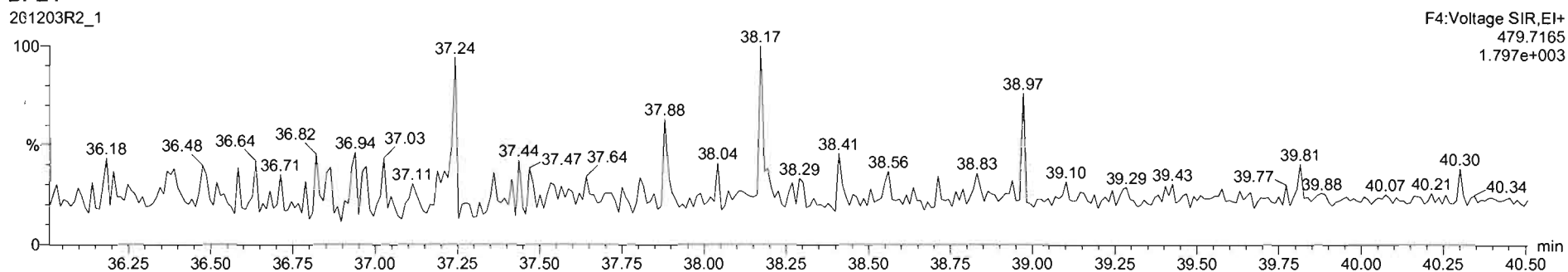
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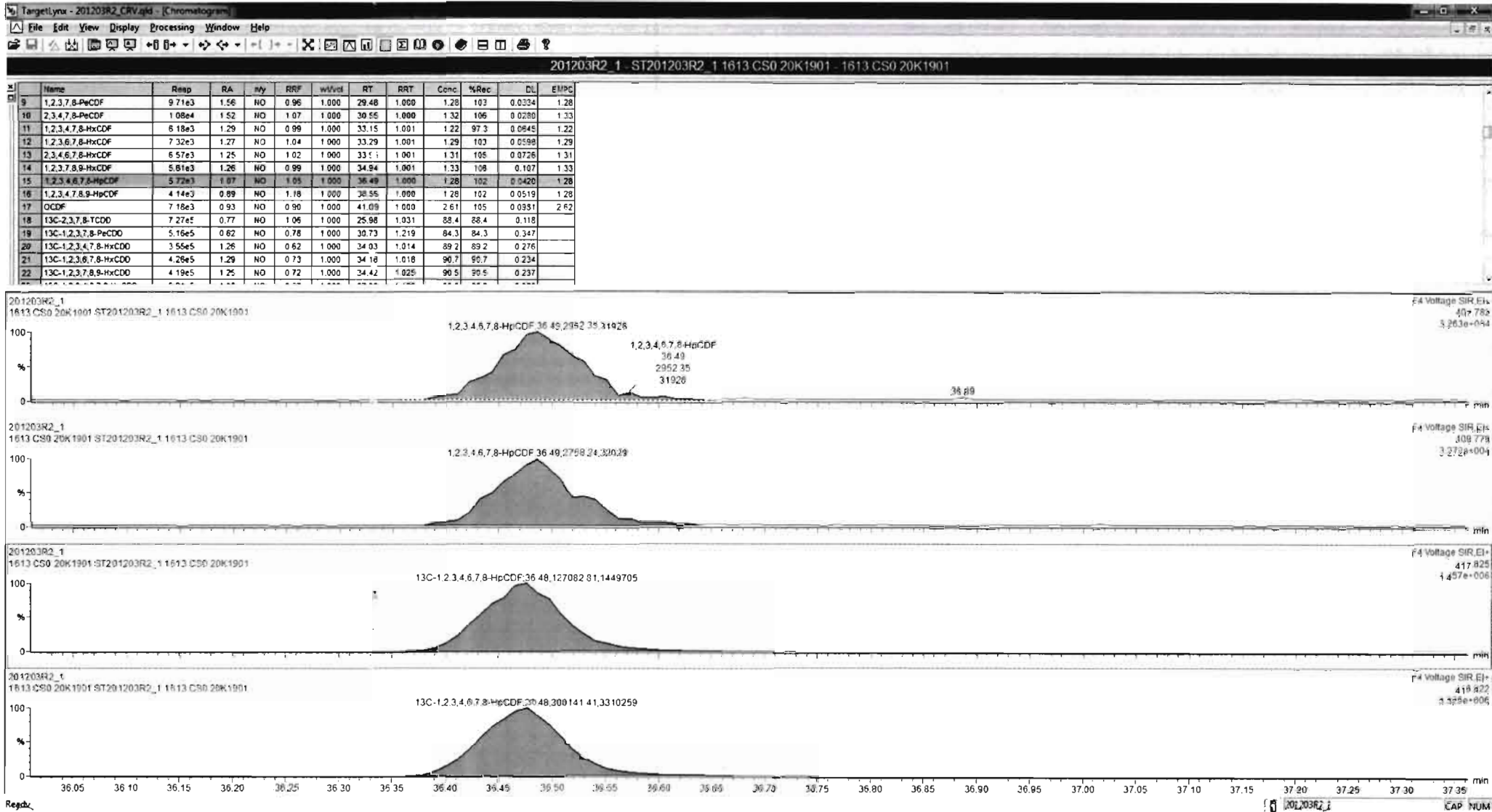


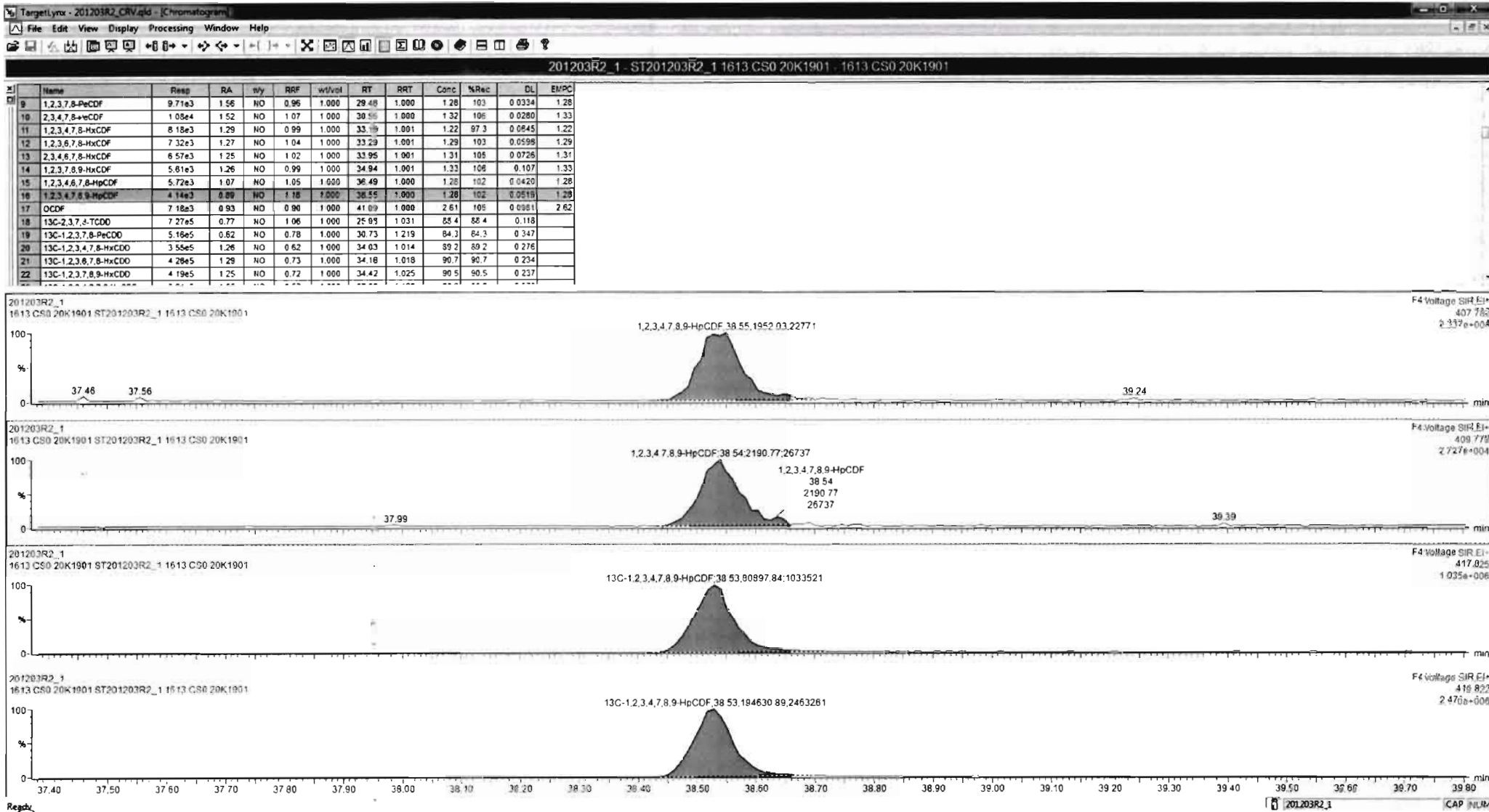
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DPE4





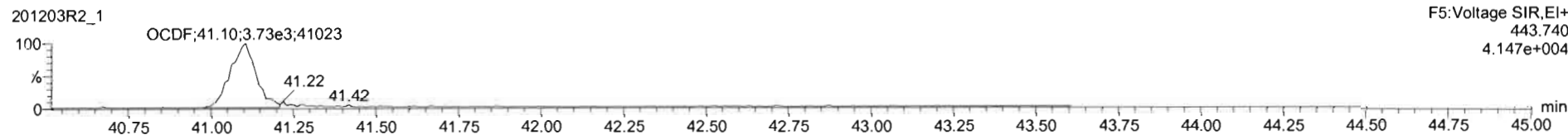
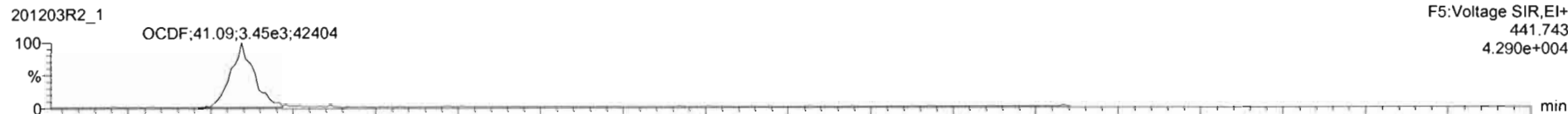


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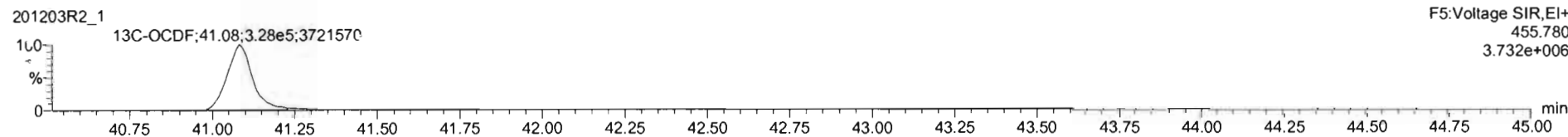
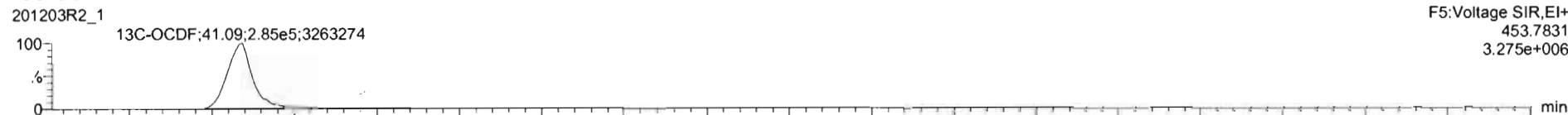
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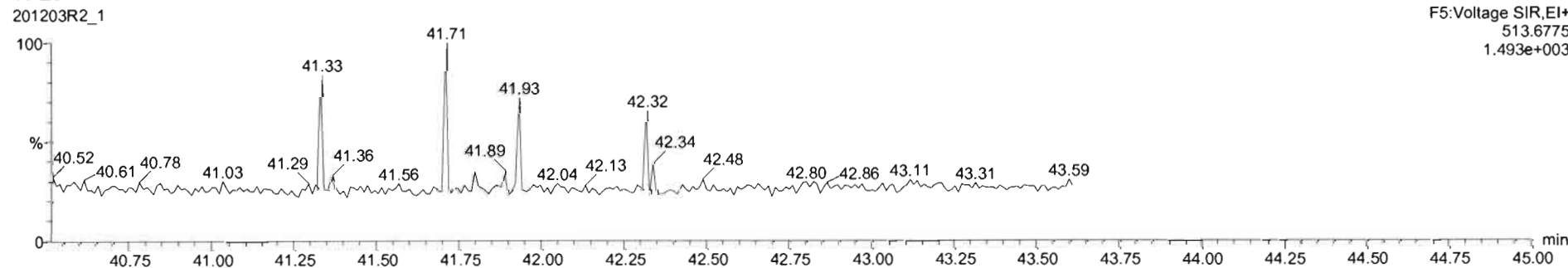
OCDF



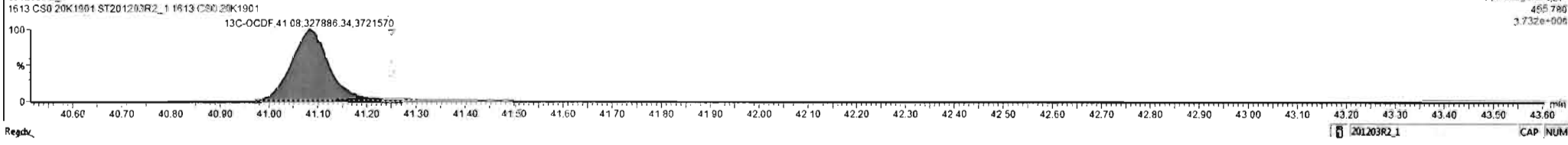
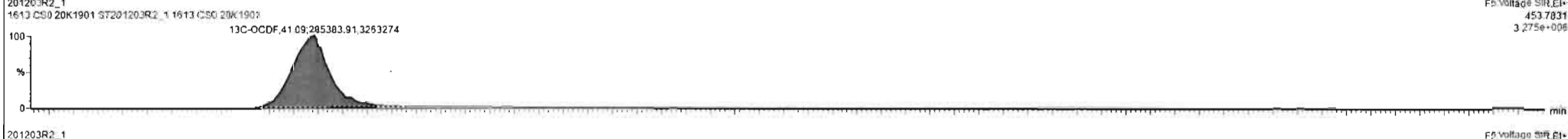
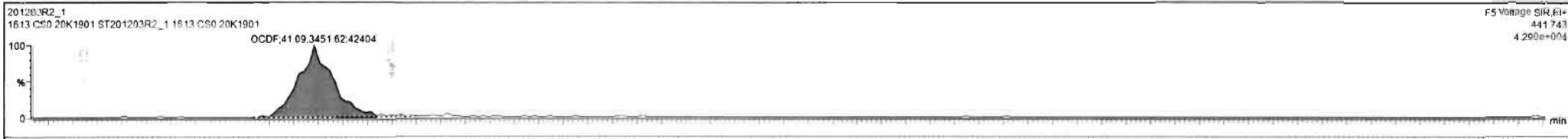
13C-OCDF



DPE5



#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
9	1,2,3,7,8-PeCDF	9.71e3	1.56	NO	0.96	1.000	29.48	1.000	1.28	103	0.0334	1.28
10	2,3,4,7,8-PeCDF	1.08e4	1.52	NO	1.07	1.000	30.55	1.001	1.32	106	0.0280	1.33
11	1,2,3,4,7,8-HxCDF	8.18e3	1.29	NO	0.99	1.000	33.15	1.001	1.22	97.3	0.0645	1.22
12	1,2,3,6,7,8-HxCDF	7.32e3	1.27	NO	1.04	1.000	33.29	1.001	1.29	103	0.0593	1.29
13	2,3,4,6,7,8-HxCDF	6.57e3	1.25	NO	1.02	1.000	33.95	1.001	1.31	105	0.0726	1.31
14	1,2,3,7,8,9-HxCDF	5.81e3	1.28	NO	0.99	1.000	34.94	1.001	1.33	106	0.107	1.33
15	1,2,3,4,6,7,8-HpCDF	5.72e3	1.07	NO	1.05	1.000	36.49	1.000	1.28	102	0.0420	1.28
16	1,2,3,4,7,8,9-HpCDF	4.14e3	0.89	NO	1.18	1.000	38.55	1.000	1.28	102	0.0519	1.28
17	OCDF	7.18e3	0.93	NO	0.90	1.000	41.09	1.000	2.51	105	0.0951	2.62
18	13C-2,3,7,8-TCDD	7.27e5	0.77	NO	1.06	1.000	25.98	1.031	88.4	88.4	0.118	
19	13C-1,2,3,7,8-PeCDD	5.16e5	0.62	NO	0.78	1.000	30.73	1.219	84.3	84.3	0.347	
20	13C-1,2,3,4,7,8-HxCDD	3.55e5	1.26	NO	0.62	1.000	34.03	1.014	89.2	89.2	0.276	
21	13C-1,2,3,6,7,8-HxCDD	4.26e5	1.29	NO	0.73	1.000	34.16	1.018	90.7	90.7	0.234	
22	13C-1,2,3,7,8,9-HxCDD	4.19e5	1.25	NO	0.72	1.000	34.42	1.025	90.5	90.5	0.237	



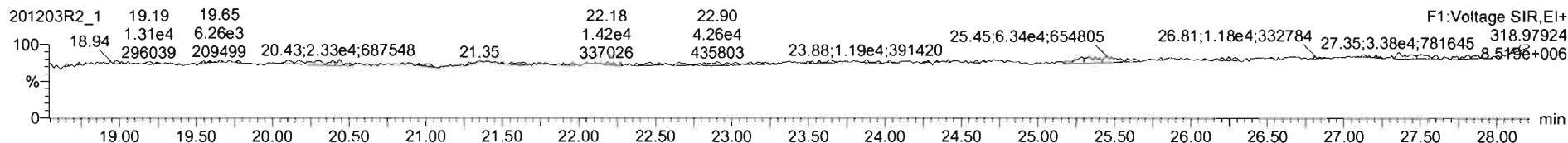
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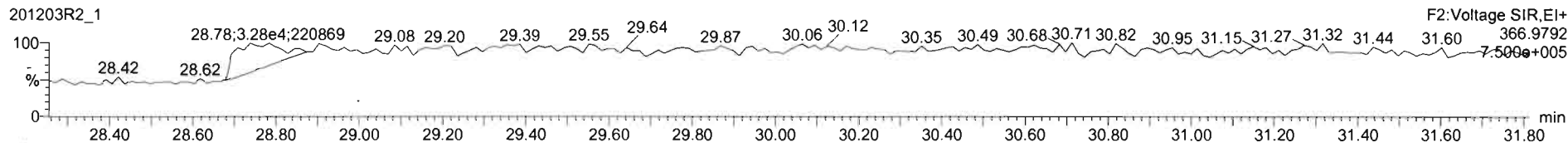
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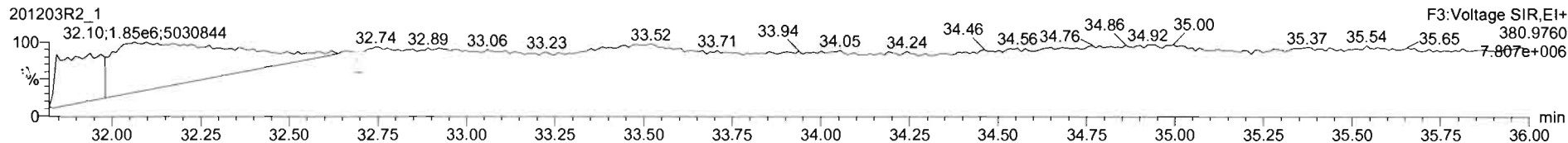
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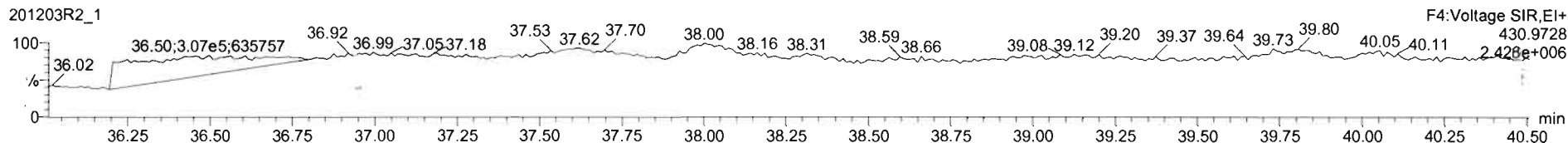
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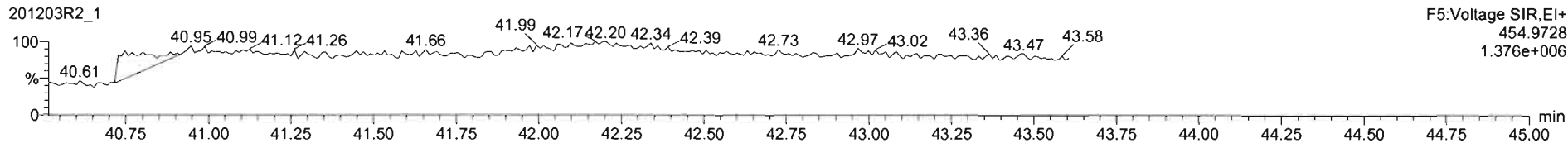
PFK3



PFK4



PFK5



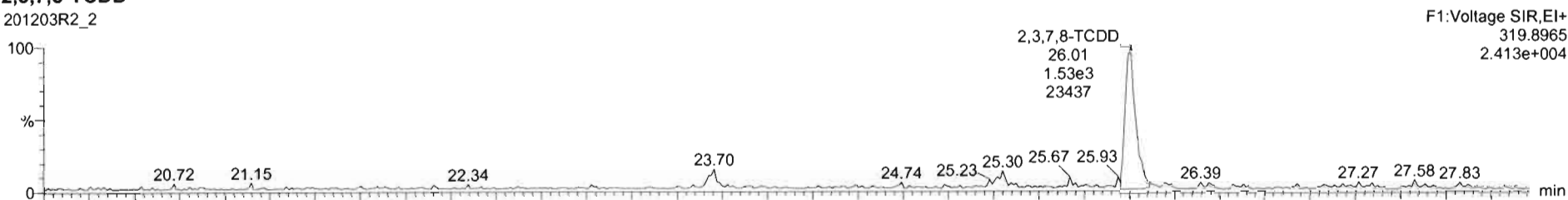
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

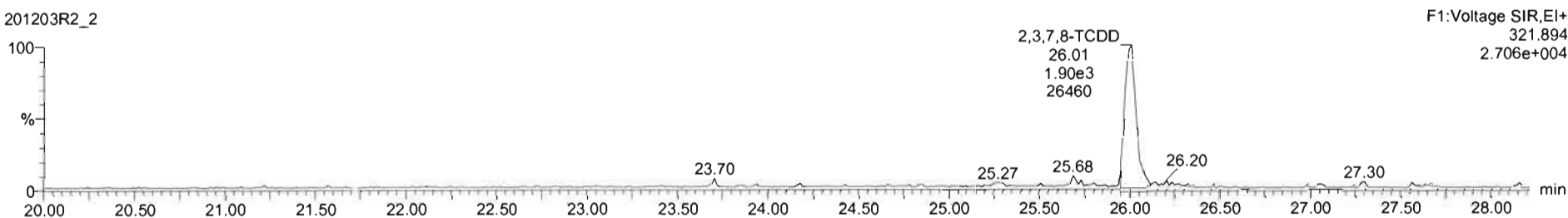
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2,3,7,8-TCDD

201203R2_2

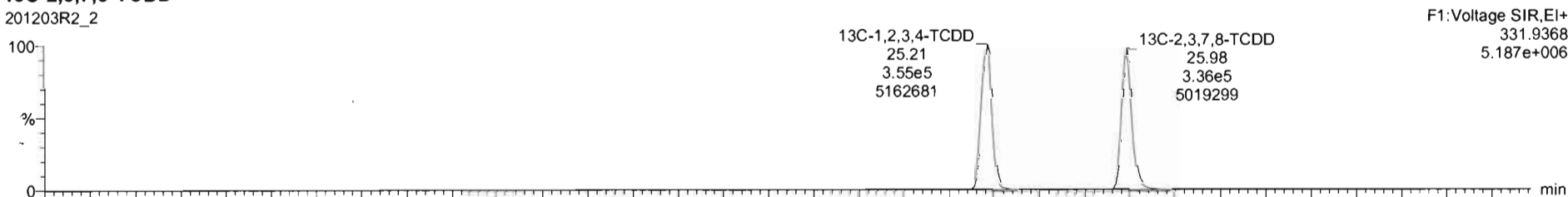


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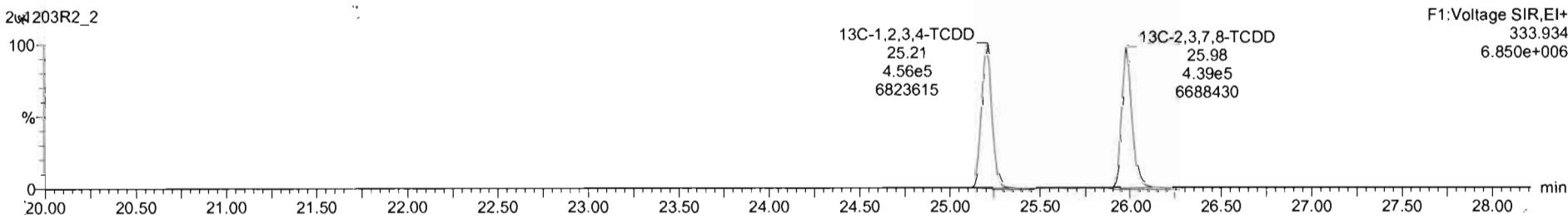


13C-2,3,7,8-TCDD

201203R2_2

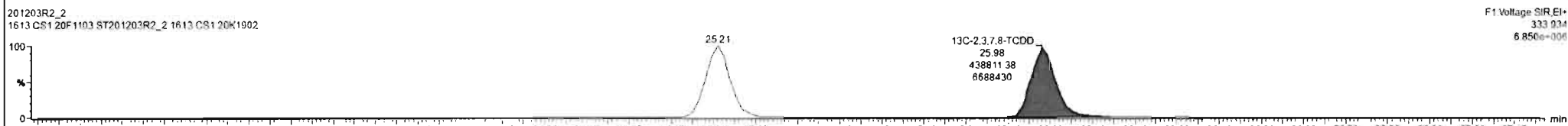
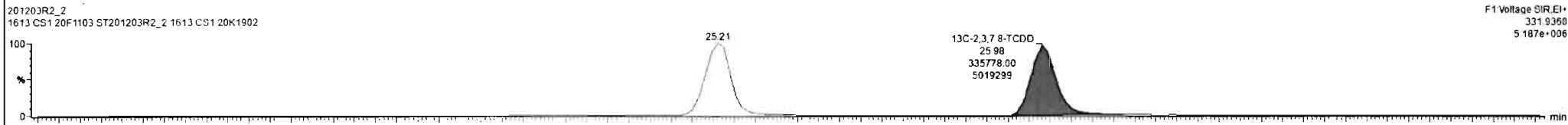
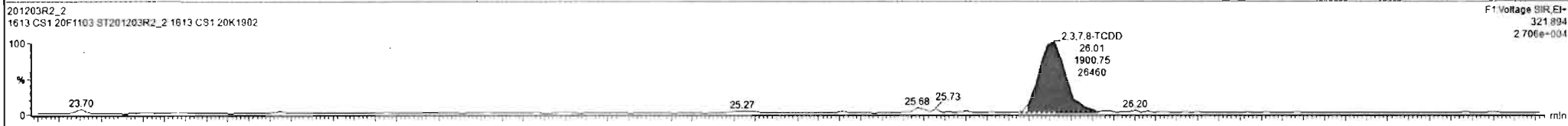
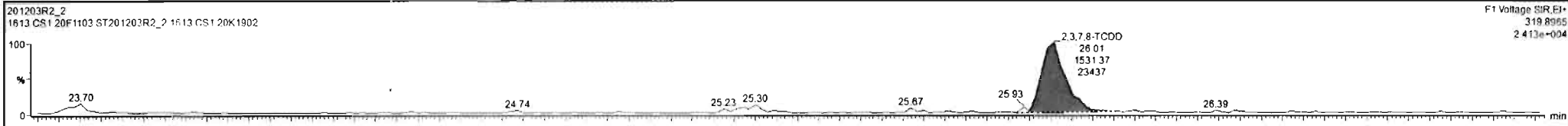


201203R2_2



201203R2_2 - ST201203R2_2 1613 CS1 20K1902 - 1613 CS1 20K1902

Name	Resp	RA	nHy	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	3.43e3	0.81	NO	0.98	1.000	26.01	1.001	9.452	96.4	0.0227	0.452
2 1,2,3,7,8-PeCDD	1.18e4	0.57	NO	0.93	1.000	30.76	1.001	2.28	91.7	0.0238	2.28
3 1,2,3,4,7,8-HxCDD	8.64e3	1.23	NO	1.02	1.000	34.06	1.001	2.22	69.0	0.0426	2.22
4 1,2,3,6,7,8-HxCDD	9.36e3	1.17	NO	0.90	1.000	34.19	1.001	2.28	91.2	0.0427	2.28
5 1,2,3,7,8,9-HxCDD	1.00e4	1.24	NO	0.96	1.000	34.44	1.000	2.30	91.9	0.0427	2.30
6 1,2,3,4,6,7,8-HpCDD	7.18e3	1.06	NO	0.92	1.000	37.92	1.000	2.32	92.6	0.0791	2.32
7 OCDD	1.11e4	0.89	NO	0.87	1.000	40.63	1.000	4.43	88.8	0.0812	4.43
8 2,3,7,8-TCDF	4.29e3	0.83	NO	0.85	1.000	25.30	1.001	0.442	88.5	0.0134	0.442
9 1,2,3,7,8-PeCDF	1.84e4	1.59	NO	0.96	1.000	29.49	1.000	2.26	90.3	0.0424	2.26
10 2,3,4,7,8-PeCDF	1.87e4	1.59	NO	1.07	1.000	30.55	1.000	2.18	86.3	0.0379	2.18
11 1,2,3,4,7,8-HxCDF	1.20e4	1.18	NO	0.99	1.000	33.16	1.001	2.21	88.4	0.0494	2.21
12 1,2,3,6,7,8-HxCDF	1.37e4	1.22	NO	1.04	1.000	33.29	1.000	2.23	89.2	0.0473	2.23
13 2,3,4,6,7,8-HxCDF	1.17e4	1.22	NO	1.02	1.000	33.96	1.001	2.19	87.7	0.0522	2.19
14 1,2,3,7,8,9-HxCDF	1.03e4	1.32	NO	0.99	1.000	34.04	1.000	2.19	87.6	0.0855	2.19



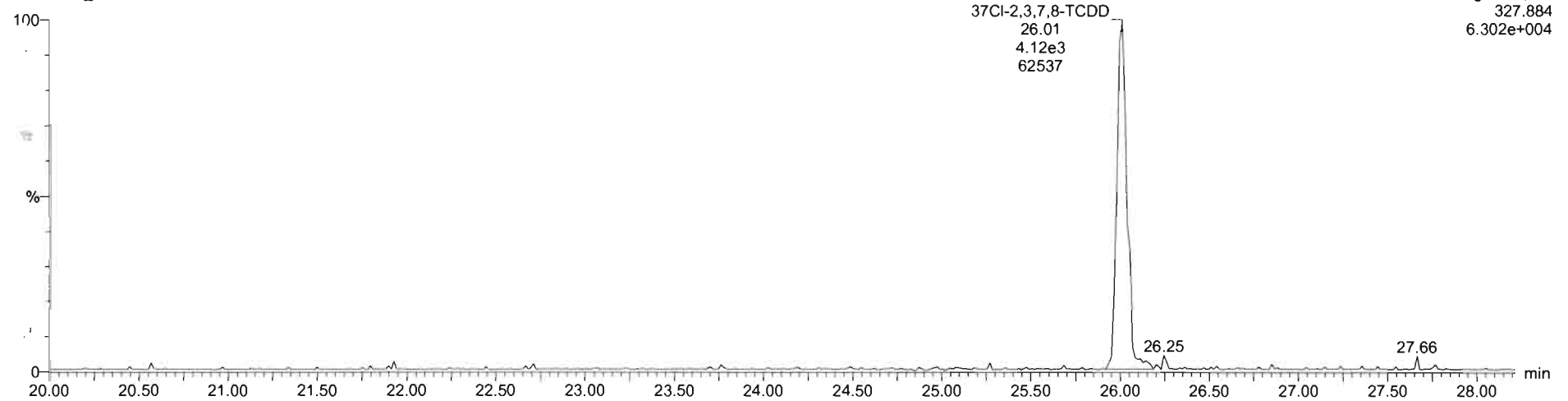
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_2, Date: 03-Dec-2020, Time: 11:28:04, ID: ST201203R2_2 1613 CS1 20K1902, Description: 1613 CS1 20F1103

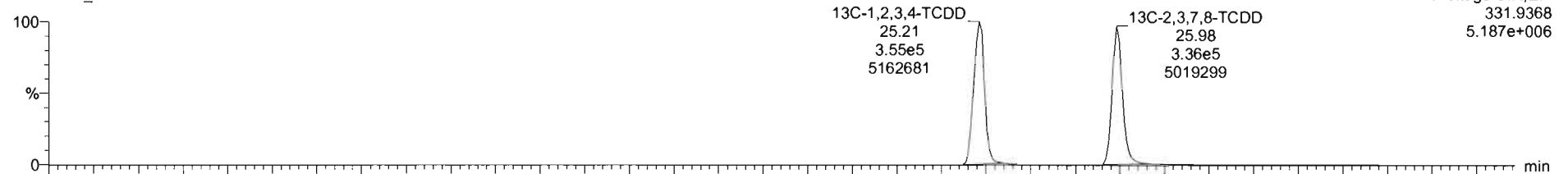
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201203R2_2

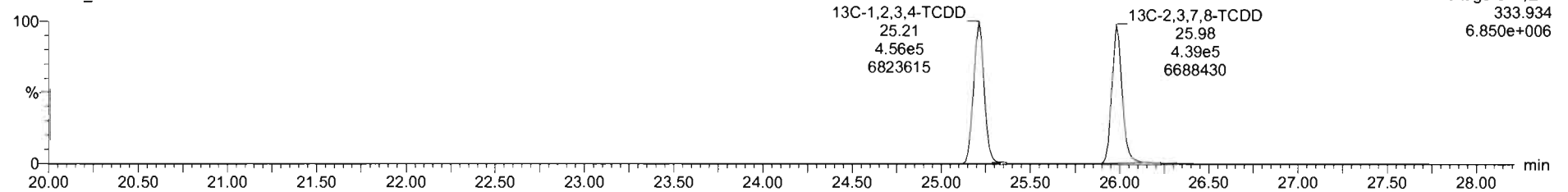


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201203R2_2



201203R2_2



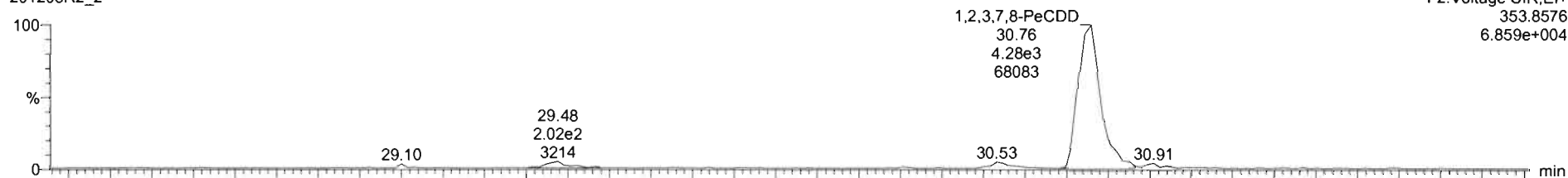
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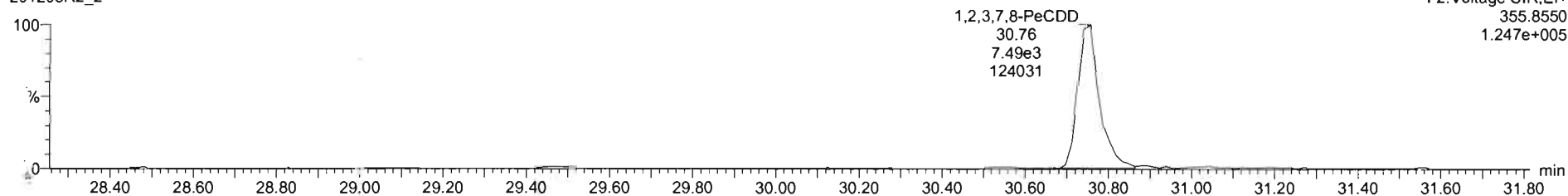
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1,2,3,7,8-PeCDD

201203R2_2

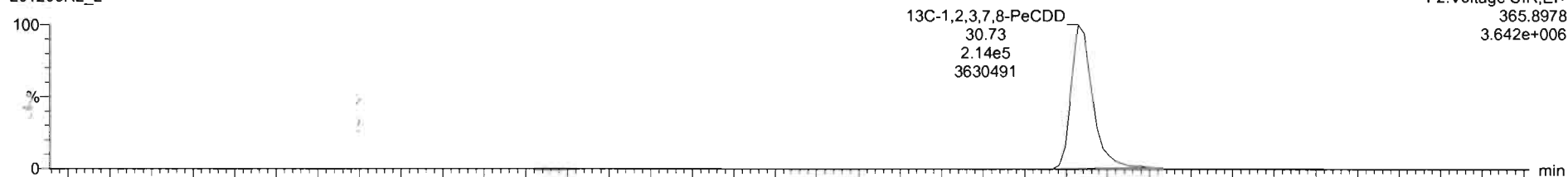


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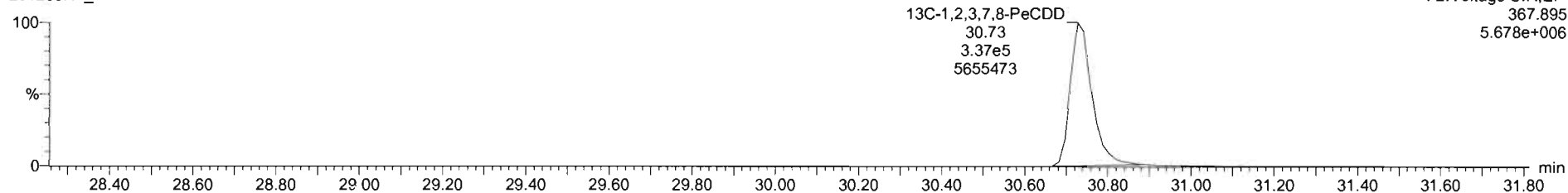


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201203R2_2

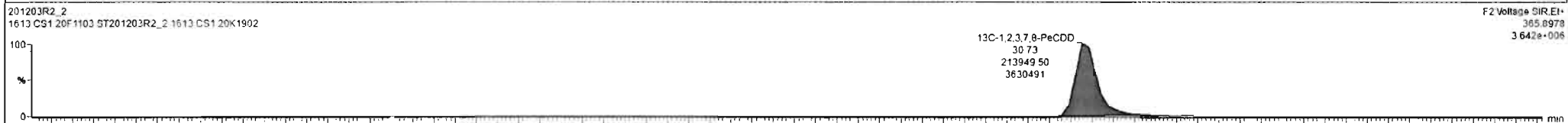
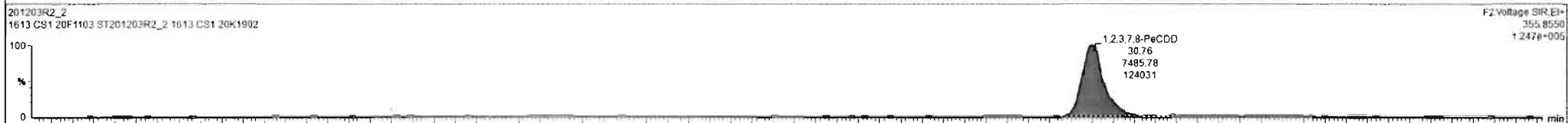


201203R2_2



201203R2_2 - ST201203R2_2 1613 CS1 20K1902 1613 CS1 20K1902

#	Name	Resp	RA	n/y	RRP	wf/wd	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	3.43e3	0.81	NO	0.98	1.000	26.01	1.001	0.452	90.4	0.0227	0.452
2	1,2,3,7,8-PeCDD	1.18e4	0.57	NO	0.93	1.000	30.76	1.001	2.29	91.7	0.0298	2.29
3	1,2,3,4,7,8-HxCDD	8.64e3	1.23	NO	1.02	1.000	34.06	1.001	2.22	89.0	0.0426	2.22
4	1,2,3,6,7,8-HxCDD	9.36e3	1.17	NO	0.90	1.000	34.19	1.001	2.28	91.2	0.0427	2.28
5	1,2,3,7,8,9-HxCDD	1.00e4	1.24	NO	0.96	1.000	34.44	1.000	2.30	91.9	0.0427	2.30
6	1,2,3,4,6,7,8-HpCDD	7.18e3	1.06	NO	0.92	1.000	37.92	1.000	2.32	92.8	0.0791	2.32
7	OCDD	1.11e4	0.89	NO	0.87	1.000	40.83	1.000	4.43	88.6	0.0812	4.43
8	2,3,7,8-TCDF	4.29e3	0.83	NO	0.85	1.000	25.30	1.001	0.442	88.5	0.0134	0.442
9	1,2,3,7,8-PeCDF	1.84e4	1.59	NO	0.96	1.000	29.49	1.000	2.26	90.3	0.0424	2.26
10	2,3,4,7,8-PeCDF	1.87e4	1.59	NO	1.07	1.000	30.55	1.000	2.16	88.3	0.0379	2.16
11	1,2,3,4,7,8-HxCDF	1.20e4	1.18	NO	0.99	1.000	33.11	1.001	2.21	88.4	0.0494	2.21
12	1,2,3,6,7,8-HxCDF	1.37e4	1.22	NO	1.04	1.000	33.59	1.000	2.23	89.2	0.0473	2.23
13	2,3,4,6,7,8-HxCDF	1.17e4	1.22	NO	1.02	1.000	33.51	1.001	2.19	87.7	0.0522	2.19
14	1,2,3,7,8,9-HxCDF	1.03e4	1.32	NO	0.99	1.000	34.94	1.000	2.19	87.8	0.0555	2.19



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

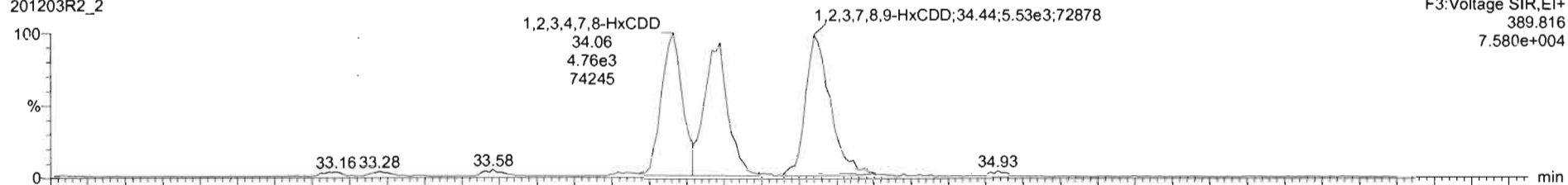
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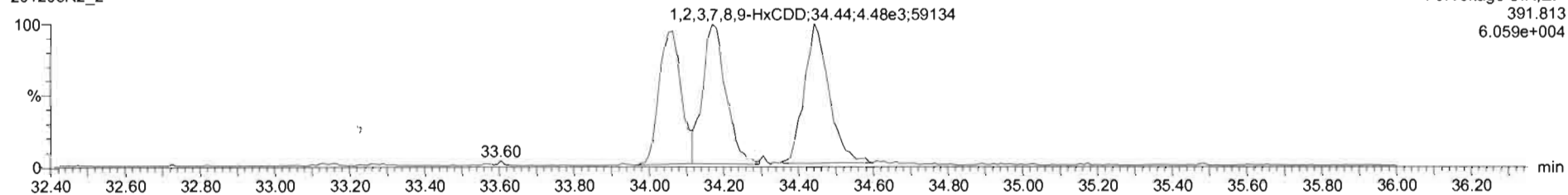
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1,2,3,4,7,8-HxCDD

201203R2_2

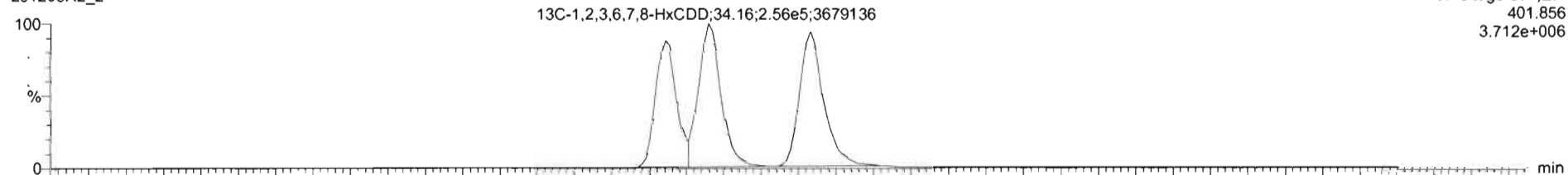


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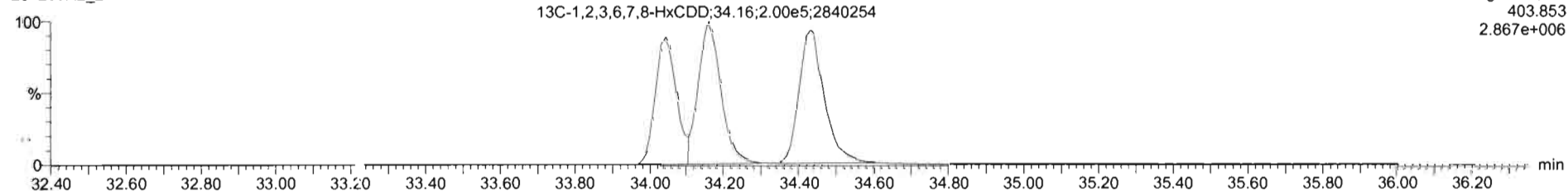


13C-1,2,3,4,7,8-HxCDD

201203R2_2

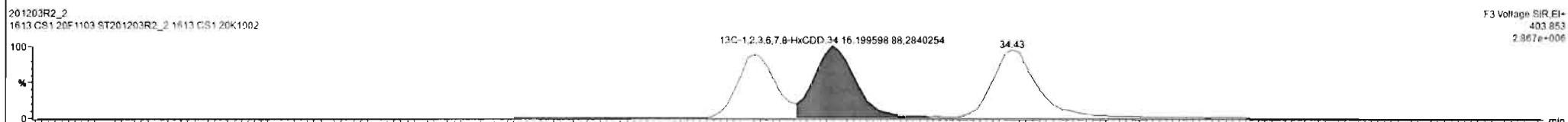
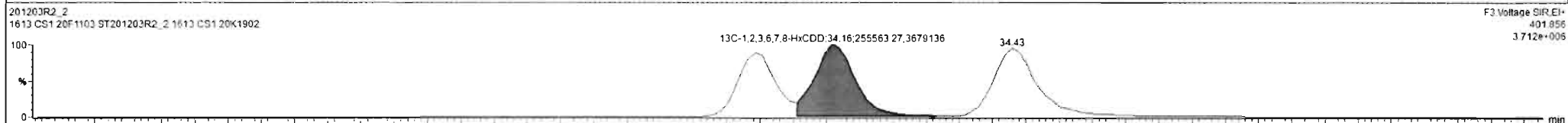
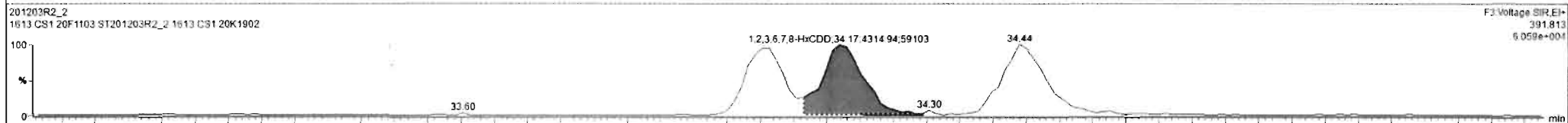
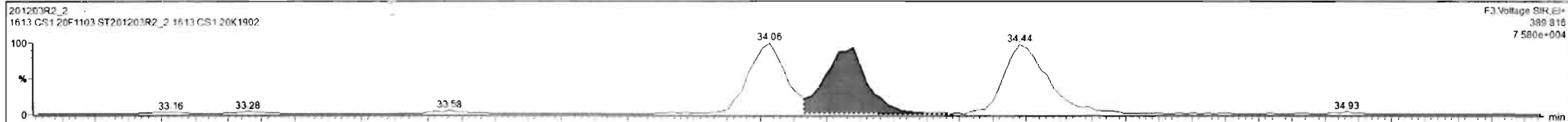


201203R2_2



201203R2_2 - ST201203R2_2 1613 CS1 20K1902 1613 CS1 20K1902

Name	Resp	RA	rvy	RRF	wVvol	RT	RRT	Conc	%Rec	Cl	EMPC
1 2,3,7,8-TCDD	3.43e3	0.81	NO	0.98	1.000	26.01	1.001	0.452	99.4	0.0227	0.452
2 1,2,3,7,8-PeCDD	1.18e4	0.57	NO	0.93	1.000	30.75	1.001	2.29	91.7	0.0295	2.29
3 1,2,3,4,7,8-HxCDD	8.64e3	1.23	NO	1.02	1.000	34.08	1.001	2.22	89.0	0.0428	2.22
4 1,2,3,6,7,8-HxCDD	9.36e3	1.17	NO	0.90	1.000	34.19	1.001	2.28	91.2	0.0427	2.28
5 1,2,3,7,8,9-HxCDD	1.06e4	1.24	NO	0.96	1.000	34.44	1.000	2.30	91.9	0.0427	2.30
6 1,2,3,4,6,7,8-HpCDD	7.18e3	1.06	NO	0.92	1.000	37.92	1.000	2.32	92.8	0.0791	2.32
7 OCDD	1.11e4	0.89	NO	0.87	1.000	40.63	1.000	4.43	98.6	0.0812	4.43
8 2,3,7,8-TCDF	4.29e3	0.83	NO	0.85	1.000	25.30	1.001	0.442	88.5	0.0134	0.442
9 1,2,3,7,8-PeCDF	1.64e4	1.59	NO	0.96	1.000	29.49	1.000	2.26	96.3	0.0424	2.26
10 2,3,4,7,8-PeCDF	1.87e4	1.59	NO	1.07	1.000	30.55	1.000	2.16	86.3	0.0379	2.16
11 1,2,3,4,7,8-HxCDF	1.20e4	1.18	NO	0.99	1.000	33.16	1.001	2.21	88.4	0.0494	2.21
12 1,2,3,6,7,8-HxCDF	1.37e4	1.22	NO	1.04	1.000	33.29	1.000	2.23	89.2	0.0473	2.23
13 2,3,4,6,7,8-HxCDF	1.17e4	1.22	NO	1.02	1.000	33.98	1.001	2.19	87.7	0.0522	2.19
14 1,2,3,7,8,9-HxCDF	1.03e4	1.32	NO	0.99	1.000	34.94	1.000	2.19	67.6	0.0855	2.19

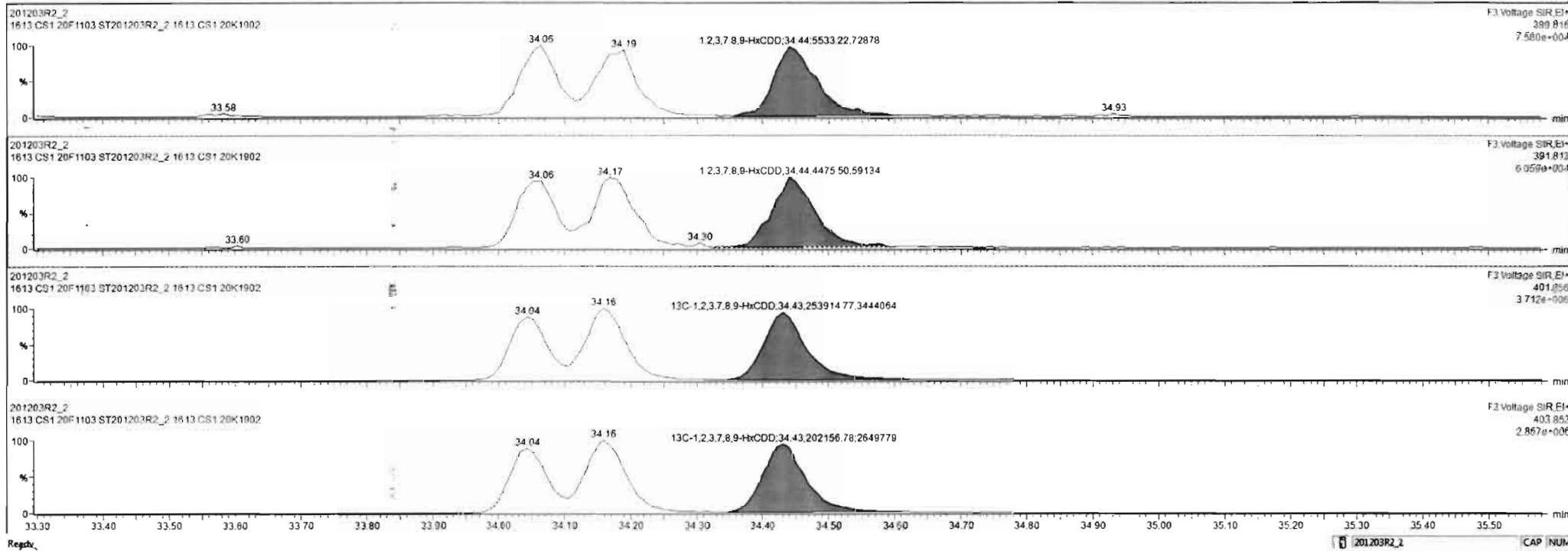


TargetLynx - 201203R2_CRV.qld - [Chromatogram]

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201203R2_2 - ST201203R2_2 1613 CS1 20K1902 - 1613 CS1 20K1902

#	Name	Resp	RA	ivy	RRF	wt/wt	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	3.43e3	0.81	NO	0.98	1.000	26.01	1.001	0.452	90.4	0.0227	0.452
2	1,2,3,7,8-PeCDD	1.18e4	0.57	NO	0.93	1.000	30.76	1.001	2.29	91.7	0.0299	2.29
3	1,2,3,4,7,8-HxCDD	8.64e3	1.23	NO	1.02	1.000	34.06	1.001	2.22	89.0	0.0428	2.22
4	1,2,3,6,7,8-HxCDD	9.36e3	1.17	NO	0.90	1.000	34.19	1.001	2.26	91.2	0.0427	2.26
5	1,2,3,7,8,9-HxCDD	1.05e4	1.24	NO	0.96	1.000	34.44	1.000	2.30	91.9	0.0427	2.30
6	1,2,3,4,6,7,8-HpCDD	7.18e3	1.06	NO	0.92	1.000	37.92	1.000	2.32	92.8	0.0791	2.32
7	OCDD	1.11e4	0.89	NO	0.87	1.000	40.83	1.000	4.43	88.6	0.0812	4.43
8	2,3,7,8-TCDF	4.29e3	0.83	NO	0.85	1.000	25.20	1.001	0.442	88.5	0.0134	0.442
9	1,2,3,7,8-PeCDF	1.84e4	1.59	NO	0.96	1.000	29.49	1.000	2.26	90.3	0.0424	2.26
10	2,3,4,7,8-PeCDF	1.87e4	1.59	NO	1.07	1.000	30.55	1.000	2.16	88.3	0.0379	2.16
11	1,2,3,4,7,8-HxCDF	1.29e4	1.16	NO	0.99	1.000	33.16	1.001	2.21	88.4	0.0494	2.21
12	1,2,3,6,7,8-HxCDF	1.37e4	1.22	NO	1.04	1.000	33.29	1.000	2.23	89.2	0.0473	2.23
13	2,3,4,6,7,8-HxCDF	1.17e4	1.22	NO	1.02	1.000	33.96	1.001	2.19	87.7	0.0522	2.19
14	1,2,3,7,8,9-HxCDF	1.03e4	1.32	NO	0.99	1.000	34.94	1.000	2.19	87.6	0.0555	2.19



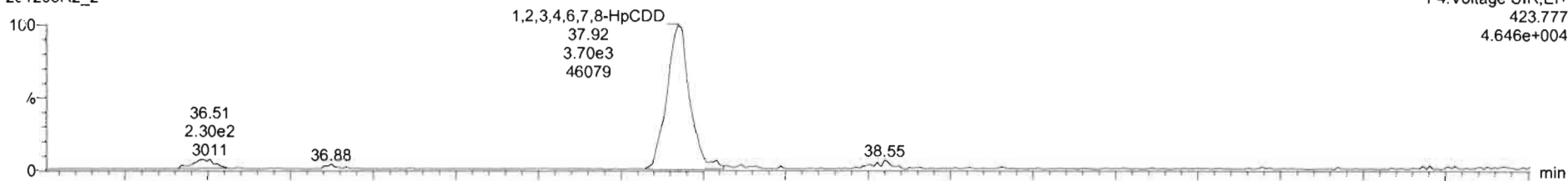
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Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_2, Date: 03-Dec-2020, Time: 11:28:04, ID: ST201203R2_2 1613 CS1 20K1902, Description: 1613 CS1 20F1103

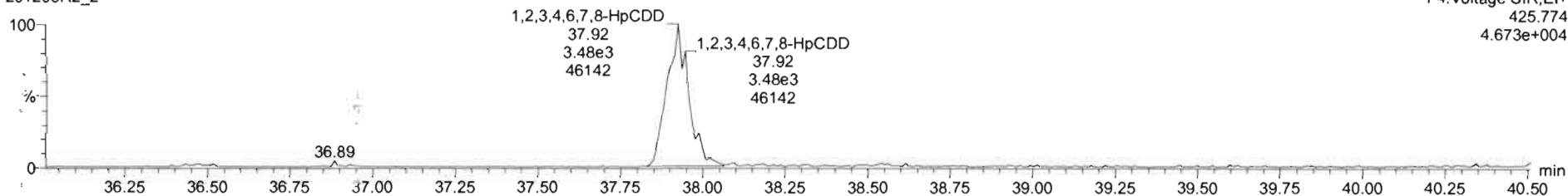
1,2,3,4,6,7,8-HpCDD

2C1203R2_2



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4.646e+004

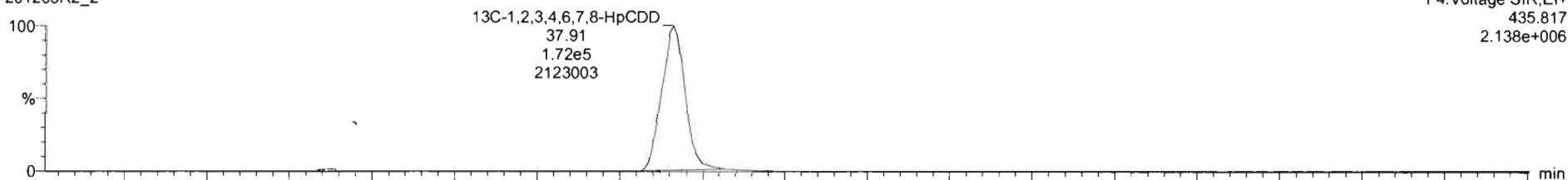
201203R2_2



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425.774
4.673e+004

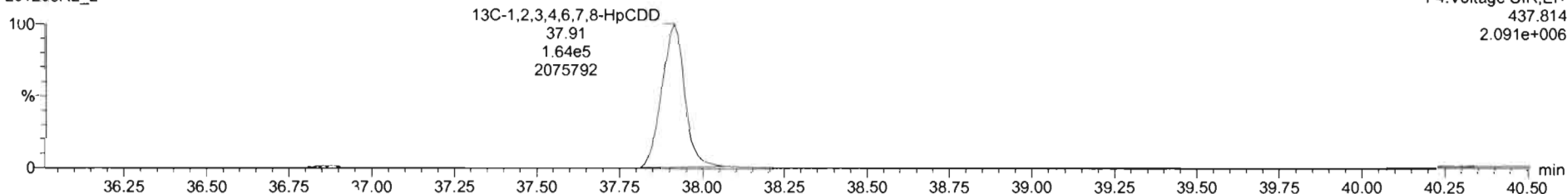
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201203R2_2



F4:Voltage SIR,EI+
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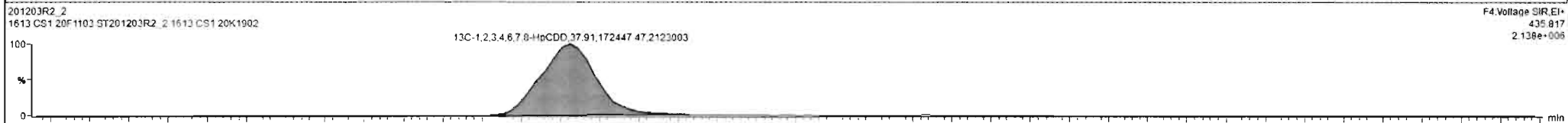
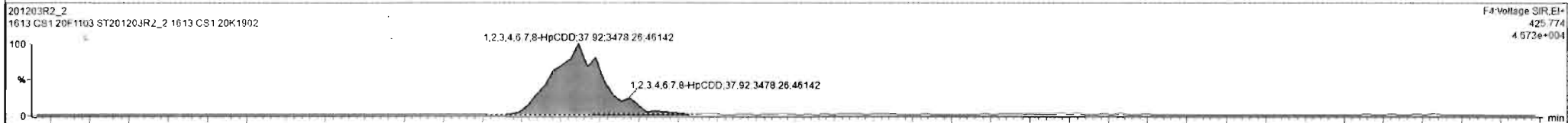
201203R2_2



F4:Voltage SIR,EI+
437.814
2.091e+006

201203R2_2 - ST201203R2_2 1613 CS1 20K1902 - 1613 CS1 20K1902

#	Name	Resp	RA	nly	RRF	wUVvl	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	3.43e3	0.81	NO	0.98	1.000	28.01	1.001	0.452	99.4	0.0227	0.452
2	1,2,3,7,8-PeCDD	1.18e4	0.57	NO	0.93	1.000	30.76	1.001	2.29	91.7	0.0298	2.28
3	1,2,3,4,7,8-HxCDD	8.64e3	1.23	NO	1.02	1.000	34.06	1.001	2.22	89.0	0.0428	2.22
4	1,2,3,6,7,8-HxCDD	9.36e3	1.17	NO	0.90	1.000	34.19	1.001	2.28	91.2	0.0427	2.28
5	1,2,3,7,8,9-HxCDD	1.05e4	1.24	NO	0.96	1.000	34.44	1.000	2.30	91.9	0.0427	2.30
6	1,2,3,4,6,7,8-HpCDD	7.18e3	1.06	NO	0.92	1.000	37.92	1.000	2.32	92.8	0.0791	2.32
7	OCDD	1.11e4	0.89	NO	0.87	1.000	40.63	1.000	4.43	88.5	0.0812	4.43
8	2,3,7,8-TCDF	4.29e3	0.83	NO	0.85	1.000	25.30	1.001	0.442	88.5	0.0134	0.442
9	1,2,3,7,8-PeCDF	1.84e4	1.59	NO	0.96	1.000	29.49	1.000	2.26	90.3	0.0424	2.26
10	2,3,4,7,8-PeCDF	1.87e4	1.59	NO	1.07	1.000	30.55	1.000	2.16	86.3	0.0378	2.16
11	1,2,3,4,7,8-HxCDF	1.20e4	1.18	NO	0.99	1.000	33.16	1.001	2.21	89.4	0.0494	2.21
12	1,2,3,6,7,8-HxCDF	1.37e4	1.22	NO	1.04	1.000	33.29	1.000	2.23	89.2	0.0473	2.23
13	2,3,4,6,7,8-HxCDF	1.17e4	1.22	NO	1.02	1.000	33.90	1.001	2.19	87.7	0.0522	2.19
14	1,2,3,7,8,9-HxCDF	1.03e4	1.32	NO	0.99	1.000	34.94	1.000	2.19	87.8	0.0855	2.19



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

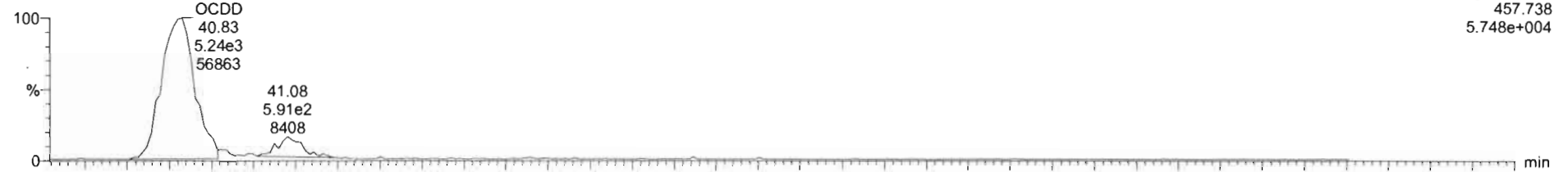
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

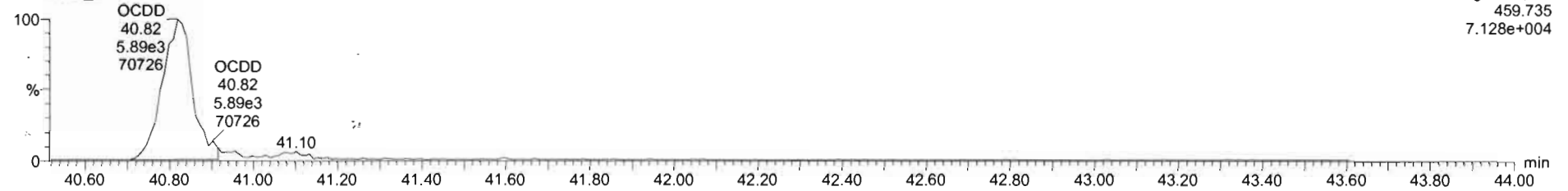
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OCDD

201203R2_2

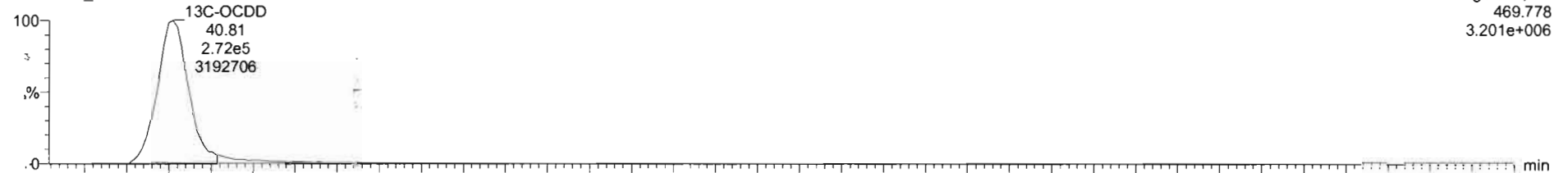


201203R2_2

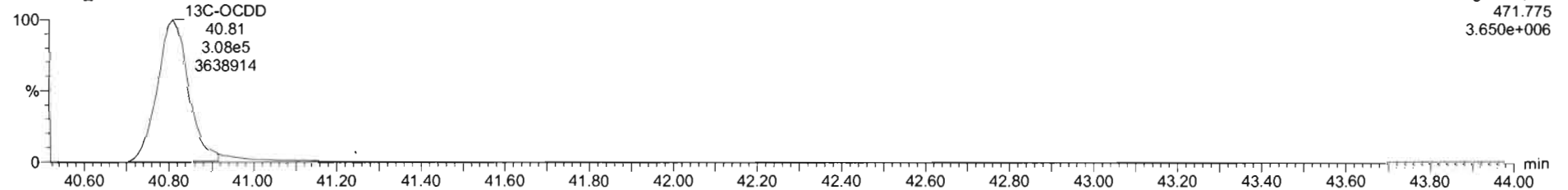


13C-OCDD

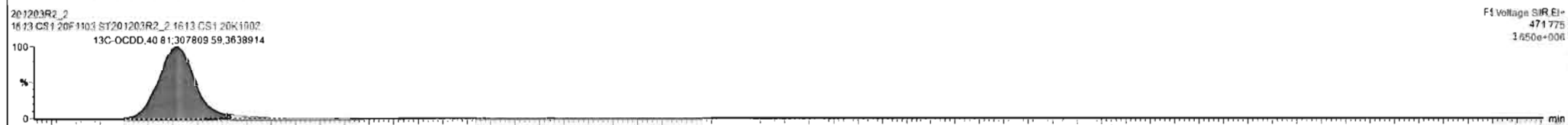
201203R2_2



201203R2_2



#	Name	Resp	RA	n/y	RRF	wtVal	RT	RRT	Conc	%Rec	DL	ElrPC
1	2,3,7,8-TCDD	3.43e3	0.81	NO	0.98	1.000	26.01	1.001	0.452	90.4	0.0227	0.452
2	1,2,3,7,8-PeCDD	1.18e4	0.57	NO	0.93	1.000	30.76	1.001	2.29	91.7	0.0298	2.29
3	1,2,3,4,7,8-HxCDD	8.64e3	1.23	NO	1.02	1.000	34.08	1.001	2.22	89.0	0.0426	2.22
4	1,2,3,6,7,8-HxCDD	9.36e3	1.17	NO	0.90	1.000	34.19	1.001	2.28	91.2	0.0427	2.28
5	1,2,3,7,8,9-HxCDD	1.00e4	1.24	NO	0.96	1.000	34.44	1.000	2.30	91.9	0.0427	2.30
6	1,2,3,4,6,7,8-HpCDD	7.18e3	1.06	NO	0.92	1.000	37.92	1.000	2.32	92.8	0.0791	2.32
7	OCDD	1.11e4	0.89	NO	0.87	1.000	40.83	1.000	4.43	88.6	0.0612	4.43
8	2,3,7,8-TCDF	4.29e3	0.83	NO	0.85	1.000	25.30	1.001	0.442	88.5	0.0134	0.442
9	1,2,3,7,8-PeCDF	1.84e4	1.59	NO	0.96	1.000	29.49	1.000	2.26	90.3	0.0424	2.26
10	2,3,4,7,8-PeCDF	1.87e4	1.59	NO	1.07	1.000	30.56	1.000	2.16	88.3	0.0379	2.16
11	1,2,3,4,7,8-HxCDF	1.20e4	1.18	NO	0.99	1.000	33.16	1.001	2.21	88.4	0.0494	2.21
12	1,2,3,6,7,8-HxCDF	1.37e4	1.22	NO	1.04	1.000	33.29	1.000	2.23	89.2	0.0473	2.23
13	2,3,4,6,7,8-HxCDF	1.17e4	1.22	NO	1.02	1.000	33.98	1.001	2.19	87.7	0.0522	2.19
14	1,2,3,7,8,9-HxCDF	1.03e4	1.32	NO	0.99	1.000	34.67	1.000	2.19	87.6	0.0855	2.19



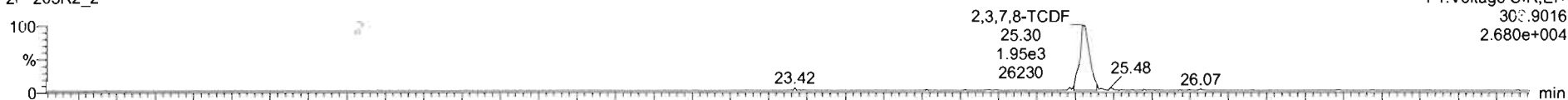
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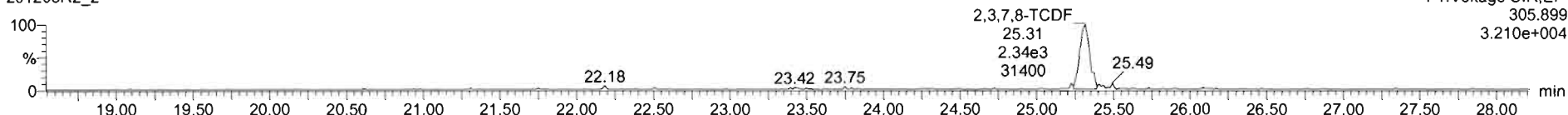
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2,3,7,8-TCDF

201203R2_2

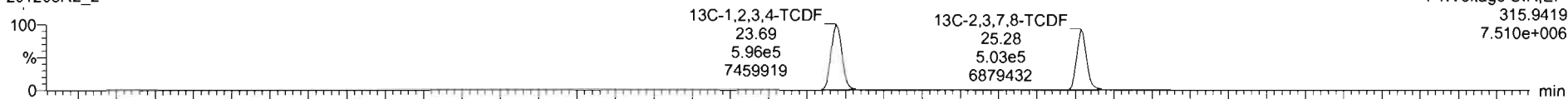


201203R2_2

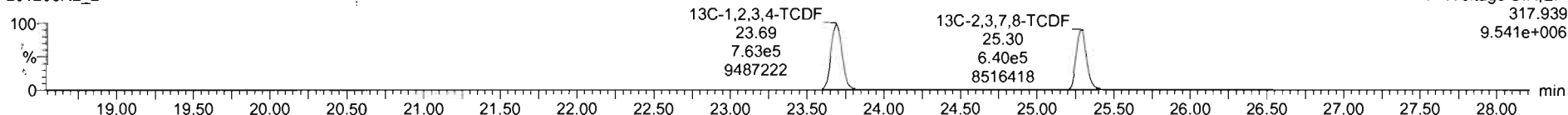


13C-2,3,7,8-TCDF

201203R2_2

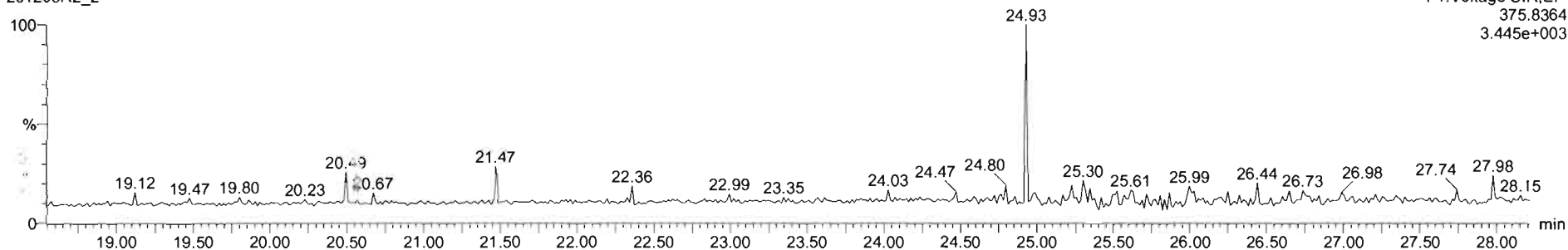


201203R2_2



D1E1

201203R2_2

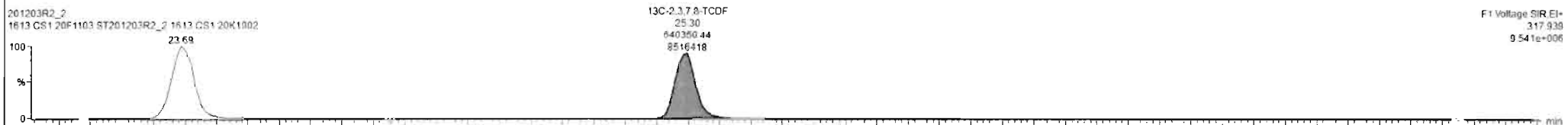
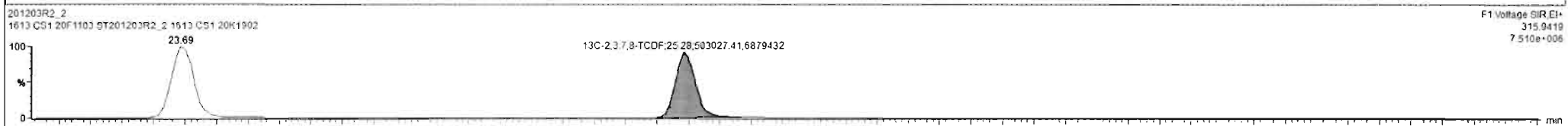
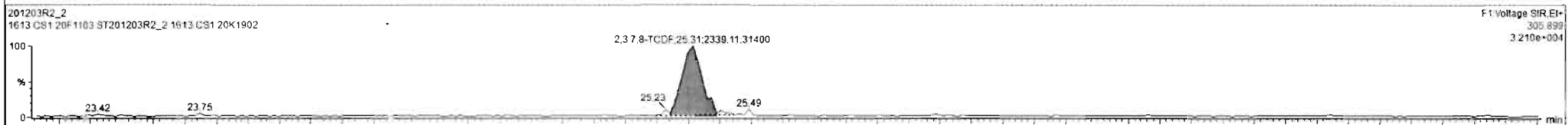
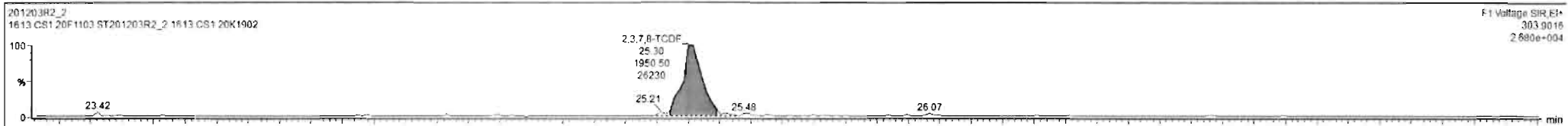


TargetLynx - 201203R2_CRV.gld - [Chromatogram]

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201203R2_2 - ST201203R2_2 1613 CS1 20K1902 - 1613 CS1 20K1902

Name	Resp	RA	ny	RRF	wt/vol	R	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDF	3.43e3	0.81	NO	0.98	1.000	26.07	1.001	0.452	90.4	0.0227	0.452
2 1,2,3,7,8-PeCDD	1.18e4	0.57	NO	0.93	1.000	30.75	1.001	2.29	91.7	0.0298	2.29
3 1,2,3,4,7,8-HxCDD	8.64e3	1.23	NO	1.02	1.000	34.06	1.001	2.22	89.0	0.0426	2.22
4 1,2,3,6,7,8-HxCDD	9.26e3	1.17	NO	0.90	1.000	34.19	1.001	2.28	91.2	0.0427	2.28
5 1,2,3,7,8,9-HxCDD	1.00e4	1.24	NO	0.96	1.000	34.44	1.000	2.30	91.9	0.0427	2.30
6 1,2,3,4,6,7,8-HpCDD	7.18e3	1.06	NO	0.92	1.000	37.12	1.000	2.32	92.8	0.0791	2.32
7 OCDD	1.11e4	0.89	NO	0.87	1.000	40.83	1.000	4.43	89.6	0.0812	4.43
8 2,3,7,8-TCDF	4.29e3	0.83	NO	0.95	1.000	25.30	1.001	0.442	88.5	0.0134	0.442
9 1,2,3,7,8-PeCDF	1.84e4	1.59	NO	0.96	1.000	29.49	1.000	2.26	90.3	0.0424	2.26
10 2,3,4,7,8-PeCDF	1.87e4	1.59	NO	1.07	1.000	30.55	1.000	2.16	86.3	0.0379	2.16
11 1,2,3,4,7,8-HxCDF	1.20e4	1.18	NO	0.99	1.000	33.16	1.001	2.21	88.4	0.0494	2.21
12 1,2,3,6,7,8-HxCDF	1.37e4	1.22	NO	1.04	1.000	33.29	1.000	2.23	89.2	0.0473	2.23
13 2,3,4,6,7,8-HxCDF	1.17e4	1.22	NO	1.02	1.000	33.98	1.001	2.19	87.7	0.0522	2.19
14 1,2,3,7,8,9-HxCDF	1.03e4	1.32	NO	0.99	1.000	34.94	1.000	2.19	87.6	0.0855	2.19



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

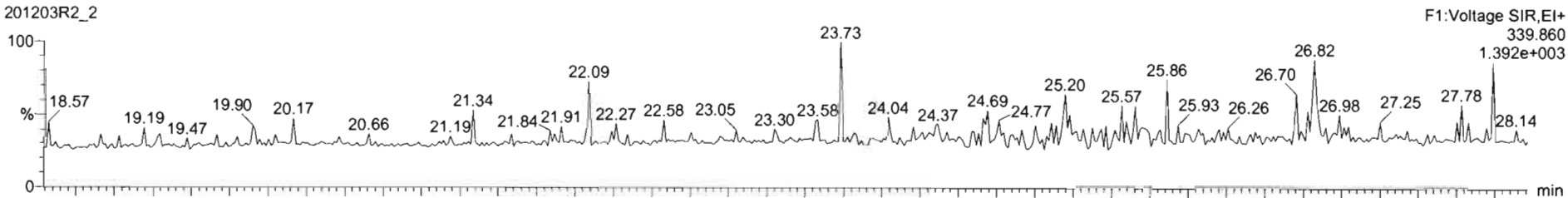
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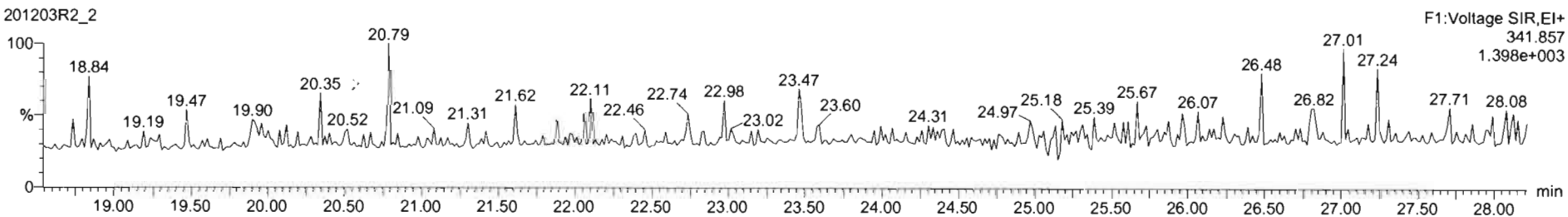
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1st Func. Penta-Furans

201203R2_2

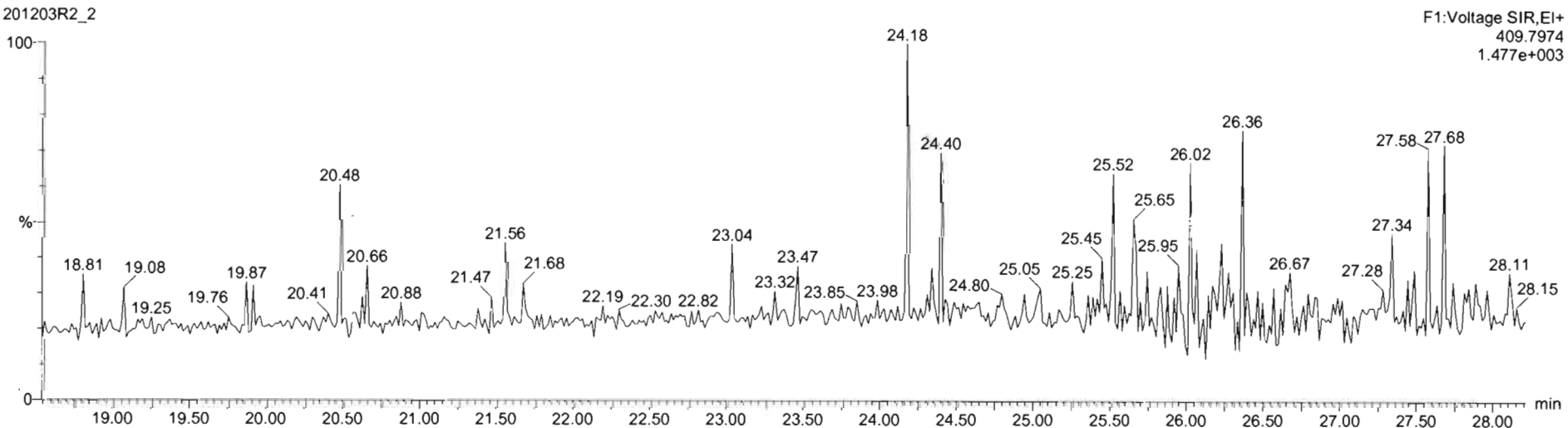


201203R2_2



DPE6

201203R2_2



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

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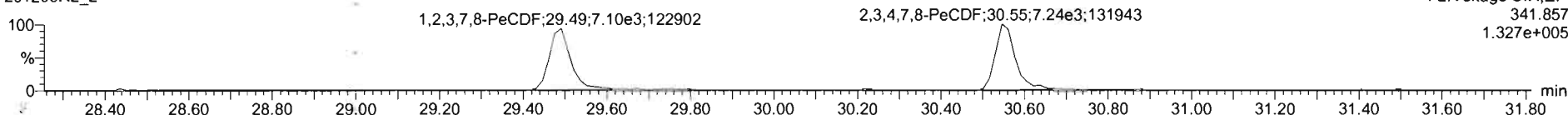
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1,2,3,7,8-PeCDF

201203R2_2

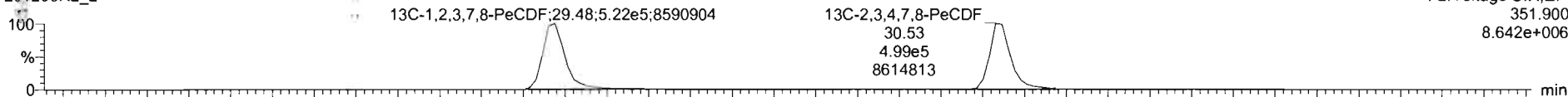


201203R2_2

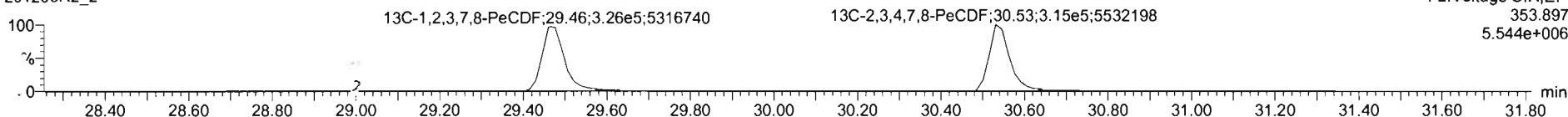


13C-1,2,3,7,8-PeCDF

201203R2_2

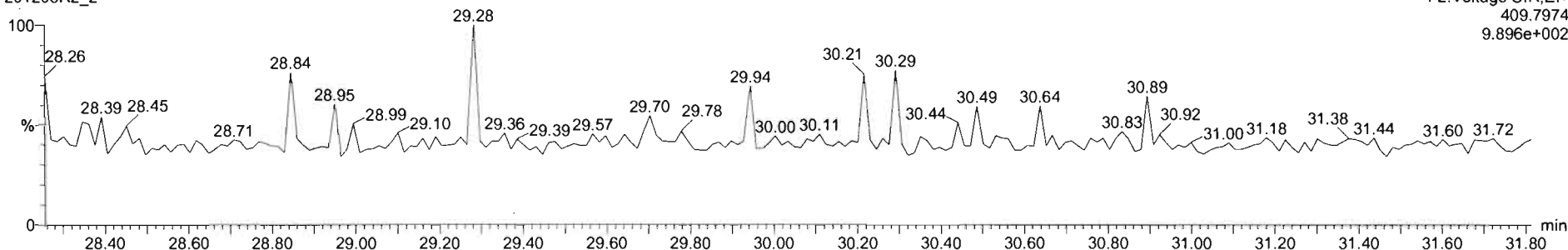


201203R2_2

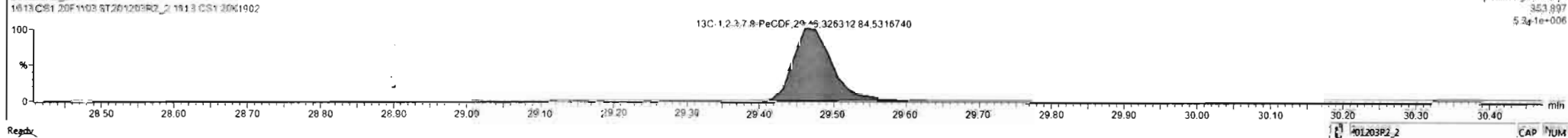
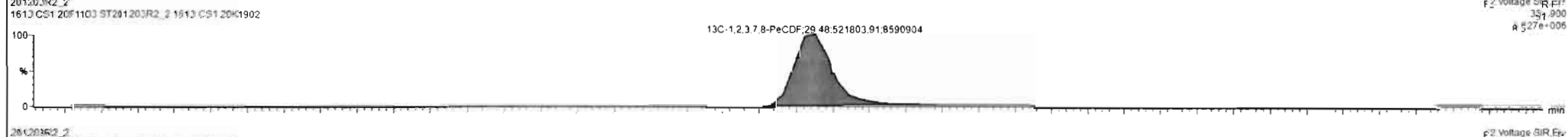
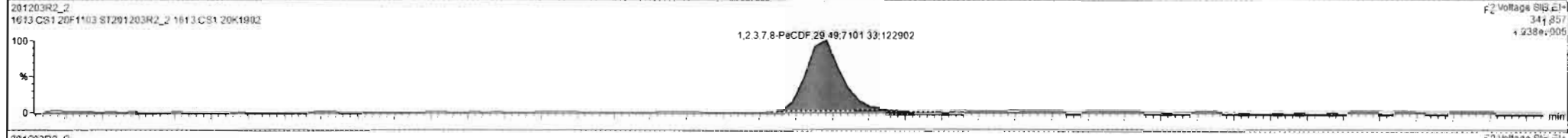
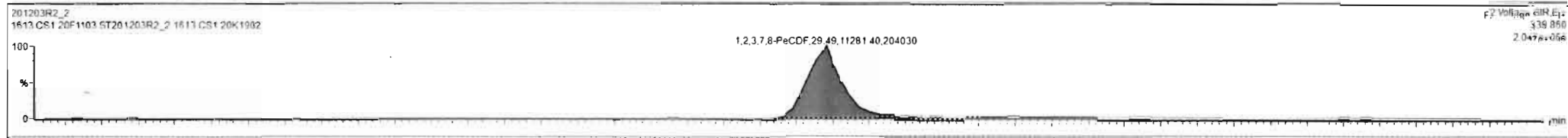


DPE2

201203R2_2



#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	3.43e3	0.81	NO	0.98	1.000	26.01	1.001	0.452	90.4	0.0227	0.462
2	1,2,3,7,8-HeCDD	1.18e4	0.57	NO	0.93	1.000	36.75	1.001	2.29	91.7	0.0298	2.29
3	1,2,3,4,7,8-HxCDD	8.64e3	1.23	NO	1.02	1.000	34.06	1.001	2.22	89.0	0.0426	2.22
4	1,2,3,6,7,8-HxCDD	9.35e3	1.17	NO	0.90	1.000	34.19	1.001	2.28	91.2	0.0427	2.28
5	1,2,3,7,8,9-HxCDD	1.03e4	1.24	NO	0.96	1.000	34.44	1.000	2.30	91.9	0.0427	2.30
6	1,2,3,4,6,7,8-HpCDD	7.18e3	1.06	NO	0.92	1.000	37.92	1.000	2.32	92.8	0.0791	2.32
7	OCDD	1.11e4	0.89	NO	0.87	1.000	46.25	1.000	4.43	88.8	0.0812	4.43
8	2,3,7,8-TCDF	4.29e3	0.83	NO	0.85	1.000	25.30	1.001	0.442	88.5	0.0134	0.442
9	1,2,3,7,8-PeCDF	1.84e4	1.59	NO	0.96	1.000	29.49	1.000	2.26	90.3	0.0424	2.26
10	2,3,4,7,8-PeCDF	1.87e4	1.59	NO	1.07	1.000	30.55	1.000	2.16	86.3	0.0379	2.16
11	1,2,3,4,7,8-HxCDF	1.20e4	1.18	NO	0.99	1.000	33.16	1.001	2.21	88.4	0.0494	2.21
12	1,2,3,6,7,8-HxCDF	1.37e4	1.22	NO	1.04	1.000	33.29	1.000	2.23	89.2	0.0473	2.23
13	2,3,4,6,7,8-HxCDF	1.17e4	1.22	NO	1.02	1.000	33.96	1.001	2.19	87.7	0.0522	2.19
14	1,2,3,7,8,9-HxCDF	1.03e4	1.32	NO	0.99	1.000	34.94	1.000	2.19	87.6	0.0555	2.19

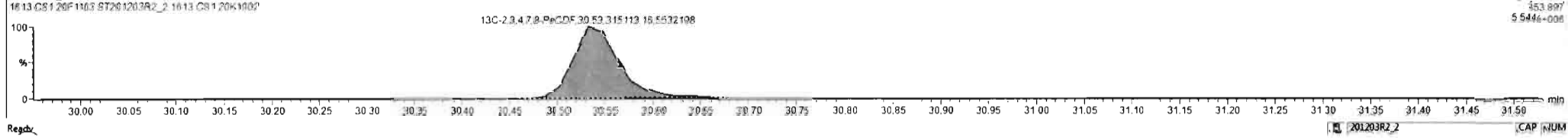
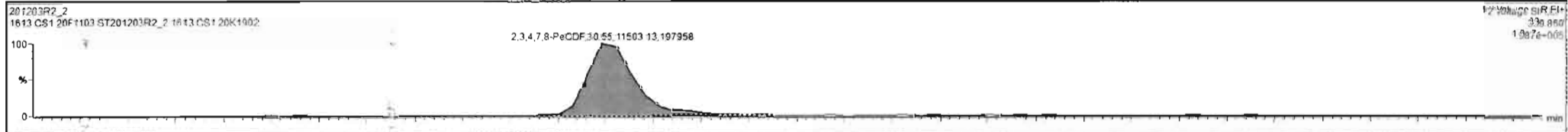


TargetLynx - 201203R2_CRV.qld - [Chromatogram]

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201203R2_2 - ST201203R2_2 1613 CS1 20K1902 - 1613 CS1 20K1902

Name	Resp	RA	nty	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	ELUPC
1 2,3,7,8-TCDD	3.43e3	0.81	NO	0.98	1.000	28.01	1.001	0.452	90.4	0.0227	0.452
2 1,2,3,7,8-PeCDD	1.18e4	0.57	NO	0.93	1.000	30.76	1.001	2.29	91.7	0.0295	2.29
3 1,2,3,4,7,8-HxCDD	8.64e3	1.23	NO	1.02	1.000	34.06	1.001	2.22	89.0	0.0426	2.22
4 1,2,3,6,7,8-HxCDD	9.36e3	1.17	NO	0.90	1.000	34.17	1.001	2.28	91.2	0.0427	2.28
5 1,2,3,7,8,9-HxCDD	1.00e4	1.24	NO	0.96	1.000	34.44	1.000	2.30	91.9	0.0427	2.30
6 1,2,3,4,6,7,8-HxCDD	7.18e3	1.06	NO	0.92	1.000	37.92	1.000	2.32	82.8	0.0791	2.32
7 OCDD	1.11e4	0.89	NO	0.87	1.000	40.83	1.000	4.43	99.6	0.0812	4.43
8 2,3,7,8-TCDF	4.29e3	0.83	NO	0.85	1.000	25.30	1.001	0.442	88.5	0.0134	0.442
9 1,2,3,7,8-PeCDF	1.84e4	1.59	NO	0.96	1.000	29.49	1.000	2.25	90.3	0.0424	2.25
10 2,3,4,7,8-PeCDF	1.87e4	1.59	NO	1.07	1.000	30.55	1.000	2.16	86.3	0.0379	2.16
11 1,2,3,4,7,8-HxCDF	1.20e4	1.18	NO	0.99	1.000	33.16	1.001	2.21	89.4	0.0494	2.21
12 1,2,3,6,7,8-HxCDF	1.37e4	1.22	NO	1.04	1.000	33.29	1.000	2.23	89.2	0.0473	2.23
13 2,3,4,6,7,8-HxCDF	1.17e4	1.22	NO	1.02	1.000	33.90	1.001	2.19	87.7	0.0522	2.19
14 1,2,3,7,8,9-HxCDF	1.03e4	1.32	NO	0.99	1.000	34.94	1.000	2.19	87.6	0.0855	2.19



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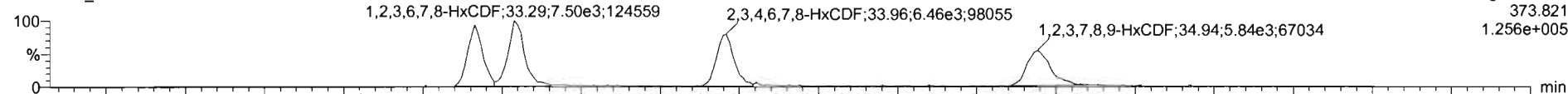
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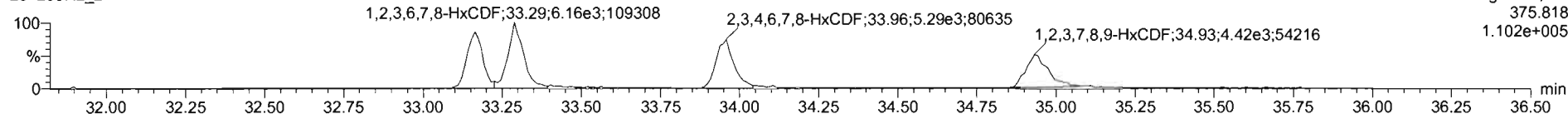
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1, 1,3,4,7,8-HxCDF

201203R2_2

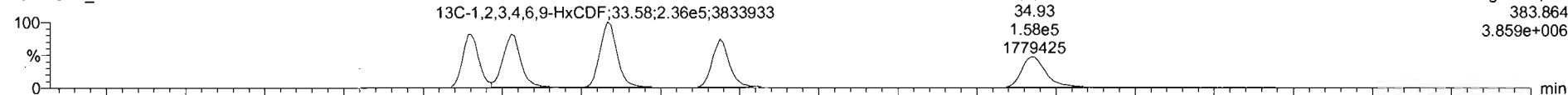


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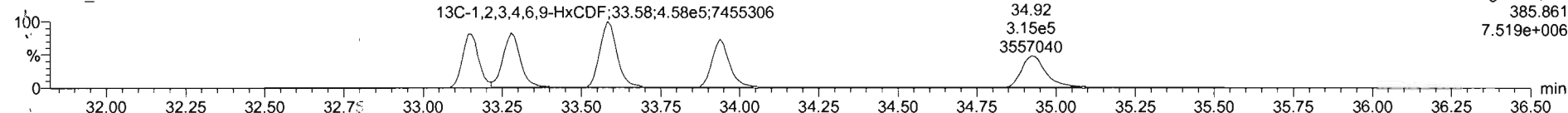


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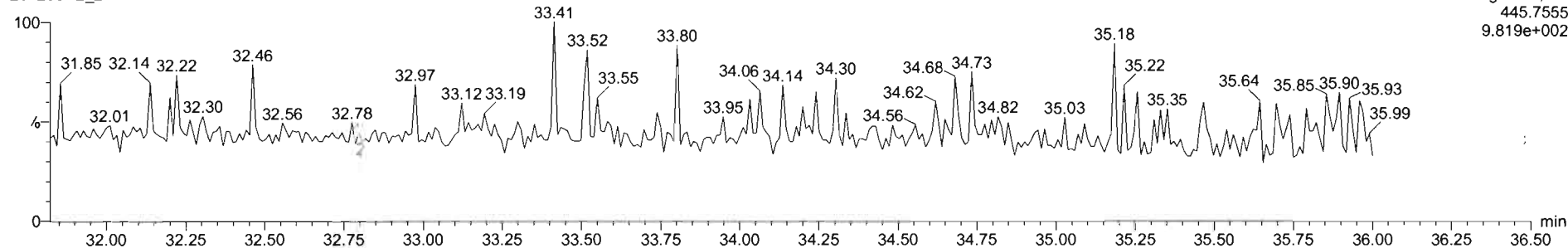


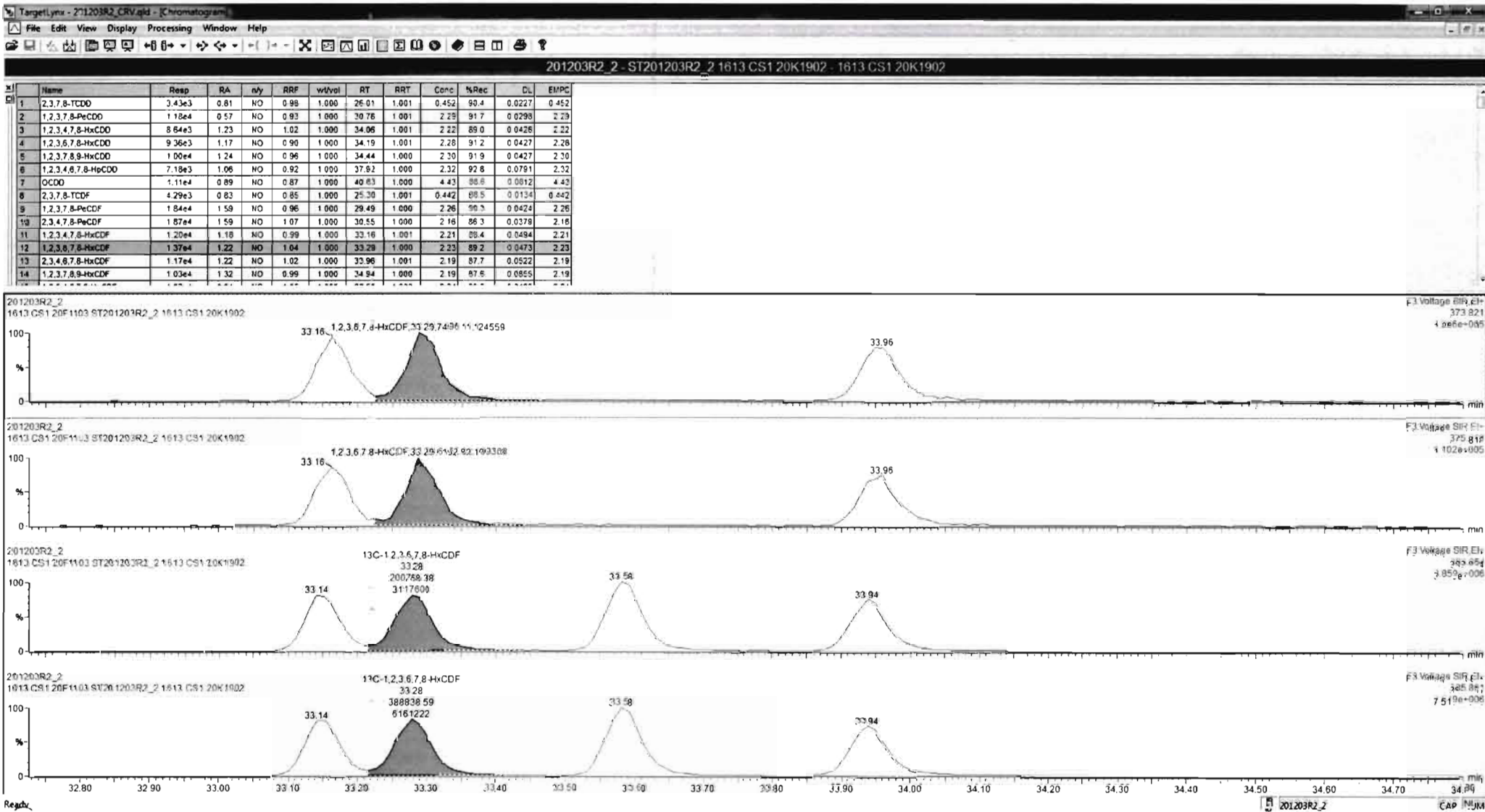
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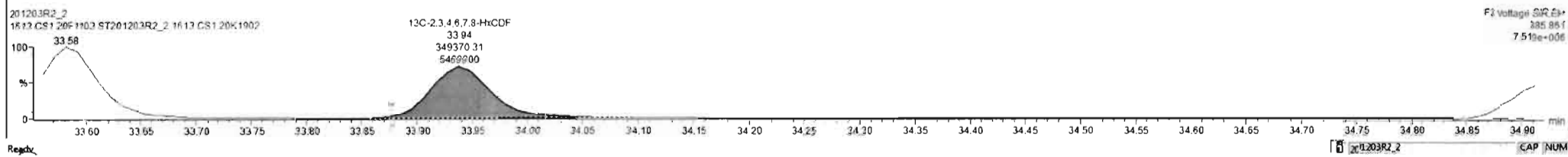
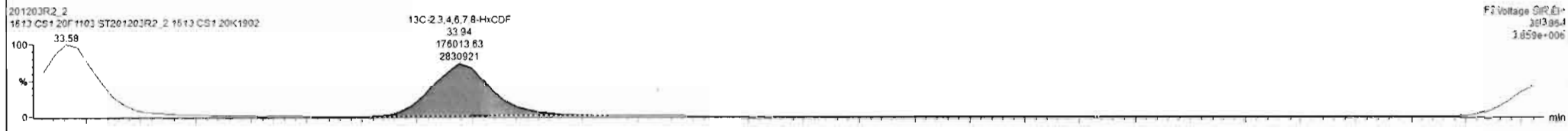
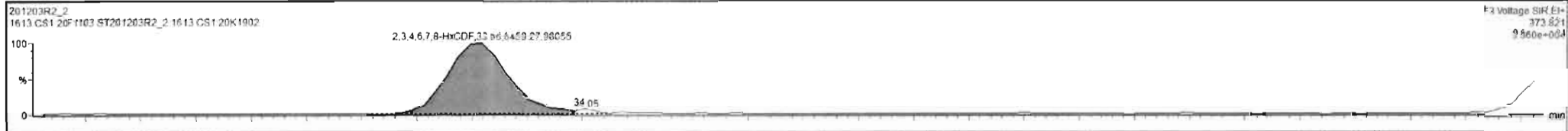
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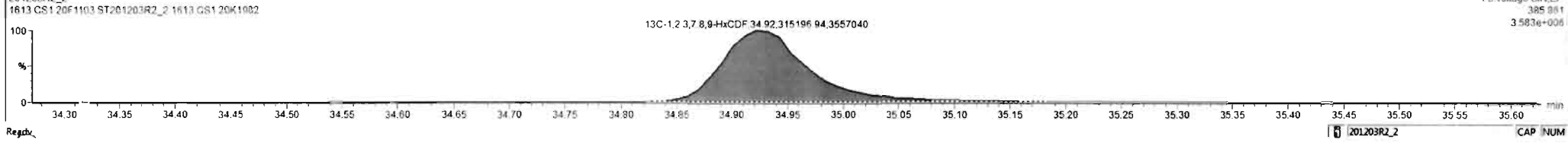
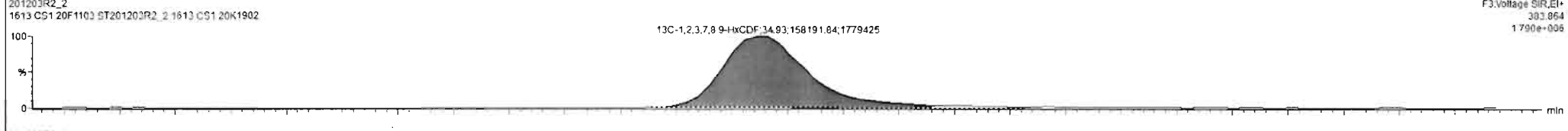
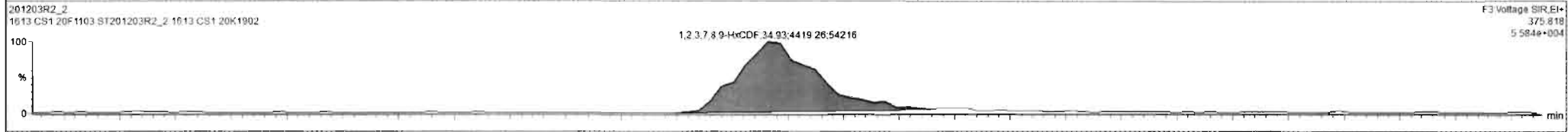
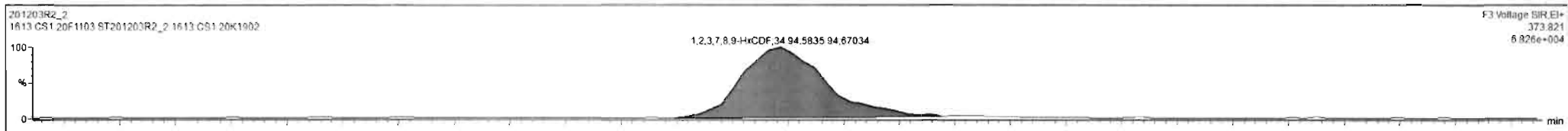
201203R2_2 - ST201203R2_2 1613 CS1 20K1902 - 1613 CS1 20K1902

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDF	3.43e3	0.81	NO	0.98	1.000	28.0	1.001	0.452	90.4	0.0227	0.452
2 1,2,3,7,8-PeCDD	1.18e4	0.57	NO	0.93	1.000	30.76	1.001	2.29	91.7	0.0298	2.29
3 1,2,3,4,7,8-HxCDD	8.64e3	1.23	NO	1.02	1.000	34.06	1.001	2.22	69.0	0.0428	2.22
4 1,2,3,6,7,8-HxCDD	9.36e3	1.17	NO	0.90	1.000	34.19	1.001	2.28	91.2	0.0427	2.28
5 1,2,3,7,8,9-HxCDD	1.00e4	1.24	NO	0.96	1.000	34.44	1.000	2.30	91.9	0.0427	2.30
6 1,2,3,4,6,7,8-HpCDD	7.18e3	1.06	NO	0.92	1.000	37.52	1.000	2.32	92.6	0.0791	2.32
7 OCDD	1.11e4	0.89	NO	0.87	1.000	40.83	1.000	4.43	86.6	0.0812	4.43
8 2,3,7,8-TCDF	4.29e3	0.83	NO	0.85	1.000	25.30	1.001	0.442	88.5	0.0124	0.442
9 1,2,3,7,8-PeCDF	1.84e4	1.59	NO	0.96	1.000	29.49	1.000	2.26	90.3	0.0424	2.26
10 2,3,4,7,8-PeCDF	1.87e4	1.59	NO	1.07	1.000	30.55	1.000	2.16	86.3	0.0379	2.16
11 1,2,3,4,7,8-HxCDF	1.20e4	1.18	NO	0.99	1.000	33.16	1.001	2.21	88.4	0.0494	2.21
12 1,2,3,6,7,8-HxCDF	1.37e4	1.22	NO	1.04	1.000	33.29	1.000	2.23	89.2	0.0473	2.23
13 2,3,4,6,7,8-HxCDF	1.17e4	1.22	NO	1.02	1.000	33.96	1.001	2.19	87.7	0.0522	2.19
14 1,2,3,7,8,9-HxCDF	1.03e4	1.32	NO	0.99	1.000	34.94	1.000	2.19	87.8	0.0855	2.19



201203R2_2 - ST201203R2_2 1613 CS1 20K1902 - 1613 CS1 20K1902

Name	Resp	RA	ny	RRF	wsVol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	3.43e3	0.81	NO	0.98	1.000	26.01	1.001	0.452	99.4	0.0227	0.452
2 1,2,3,7,8-PeCDD	1.18e4	0.57	NO	0.93	1.000	30.76	1.001	2.29	91.7	0.0298	2.29
3 1,2,3,4,7,8-HxCDD	8.64e3	1.23	NO	1.02	1.000	34.06	1.001	2.22	89.0	0.0426	2.22
4 1,2,3,6,7,8-HxCDD	9.36e3	1.17	NO	0.90	1.000	34.19	1.001	2.28	91.2	0.0427	2.28
5 1,2,3,7,8,9-HxCDD	1.00e4	1.24	NO	0.96	1.000	34.44	1.000	2.30	91.9	0.0427	2.30
6 1,2,3,4,6,7,8-HxCDD	7.18e3	1.06	NO	0.92	1.000	37.92	1.000	2.32	92.8	0.0791	2.32
7 OCDD	1.11e4	0.89	NO	0.87	1.000	40.83	1.000	4.43	88.6	0.0812	4.43
8 2,3,7,8-TCDF	4.29e3	0.83	NO	0.85	1.000	25.30	1.001	0.442	88.5	0.0134	0.442
9 1,2,3,7,8-PeCDF	1.64e4	1.59	NO	0.96	1.000	29.49	1.000	2.26	99.3	0.0424	2.26
10 2,3,4,7,8-PeCDF	1.87e4	1.59	NO	1.07	1.000	30.55	1.000	2.16	88.3	0.0379	2.16
11 1,2,3,4,7,8-HxCDF	1.20e4	1.18	NO	0.99	1.000	33.16	1.001	2.21	88.4	0.0494	2.21
12 1,2,3,6,7,8-HxCDF	1.37e4	1.22	NO	1.04	1.000	33.77	1.000	2.23	89.2	0.0473	2.23
13 2,3,4,6,7,8-HxCDF	1.17e4	1.22	NO	1.02	1.000	33.98	1.001	2.19	87.7	0.0522	2.19
14 1,2,3,7,8,9-HxCDF	1.03e4	1.32	NO	0.99	1.000	34.3	1.000	2.19	87.8	0.0555	2.19

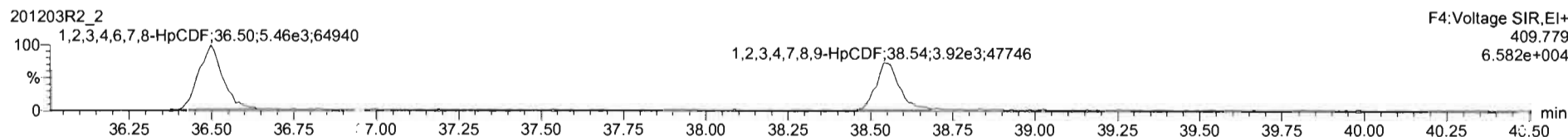
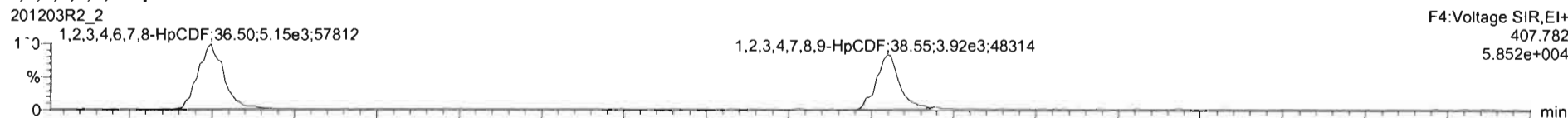


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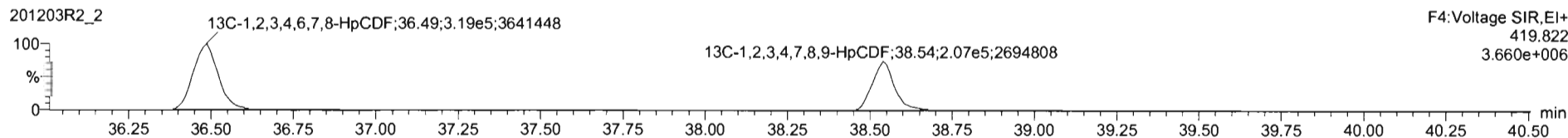
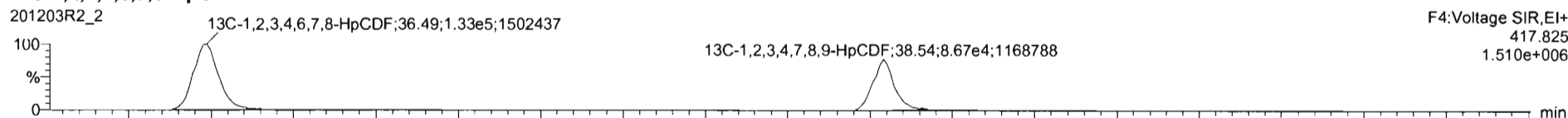
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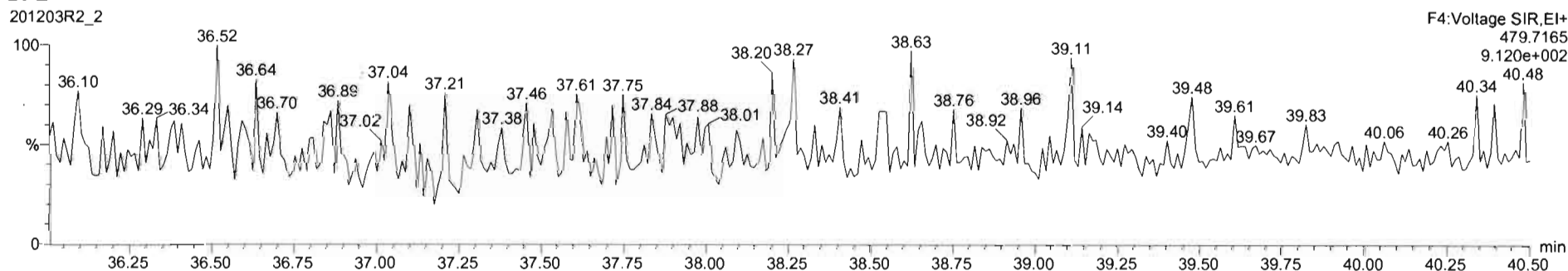
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13C-1,2,3,4,6,7,8-HpCDF

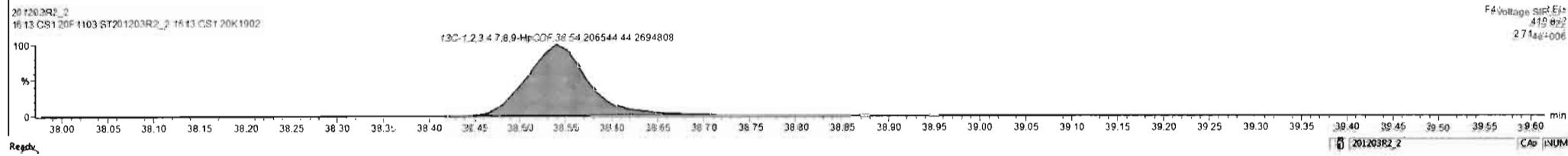
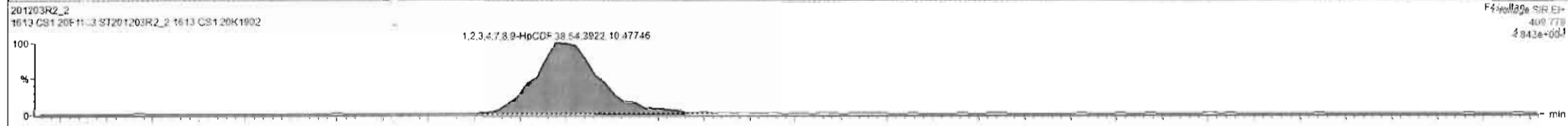


DPE4



201203R2_2 - ST201203R2_2 1613 CS1 20K1902 - 1613 CS1 20K1902

Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
16 1,2,3,4,7,8,9-HpCDF	7.84e3	1.00	NO	1.18	1.000	38.55	1.000	2.27	90.9	0.0487	2.27
17 OCDF	1.32e4	0.90	NO	0.90	1.000	41.11	1.000	4.46	89.3	0.0626	4.46
18 13C-2,3,7,8-TCDD	7.75e5	0.75	NO	1.06	1.000	25.98	1.031	90.5	90.5	0.123	
19 13C-1,2,3,7,8-PeCDD	5.51e5	0.63	NO	0.78	1.000	30.73	1.219	86.6	86.6	0.158	
20 13C-1,2,3,4,7,8-HxCDD	3.81e5	1.27	NO	0.62	1.000	34.6	1.014	80.5	80.5	0.261	
21 13C-1,2,3,6,7,8-HxCDD	4.55e5	1.28	NO	0.73	1.000	34.16	1.017	89.4	89.4	0.221	
22 13C-1,2,3,7,8,9-HxCDD	4.56e5	1.26	NO	0.72	1.000	34.43	1.025	91.0	91.0	0.224	
23 13C-1,2,3,4,6,7,8-HpCDD	3.37e5	1.05	NO	0.57	1.000	37.91	1.129	85.5	85.5	0.396	
24 13C-OCDD	5.80e5	0.88	NO	0.50	1.000	40.81	1.215	159	159	0.384	
25 13C-2,3,7,8-TCDF	1.14e6	0.79	NO	0.92	1.000	25.28	1.003	81.6	81.6	0.105	
26 13C-1,2,3,7,8-PeCDF	8.48e5	1.60	NO	0.72	1.000	29.48	1.169	87.3	87.3	0.328	
27 13C-2,3,4,7,8-PeCDF	8.14e5	1.59	NO	0.69	1.000	30.17	1.211	87.1	87.1	0.340	
28 13C-1,2,3,4,7,8-HxCDF	5.49e5	0.51	NO	0.87	1.000	33.16	0.987	90.7	90.7	0.268	
29 13C-1,2,3,6,7,8-HxCDF	5.90e5	0.52	NO	0.93	1.000	33.26	0.991	91.0	91.0	0.251	

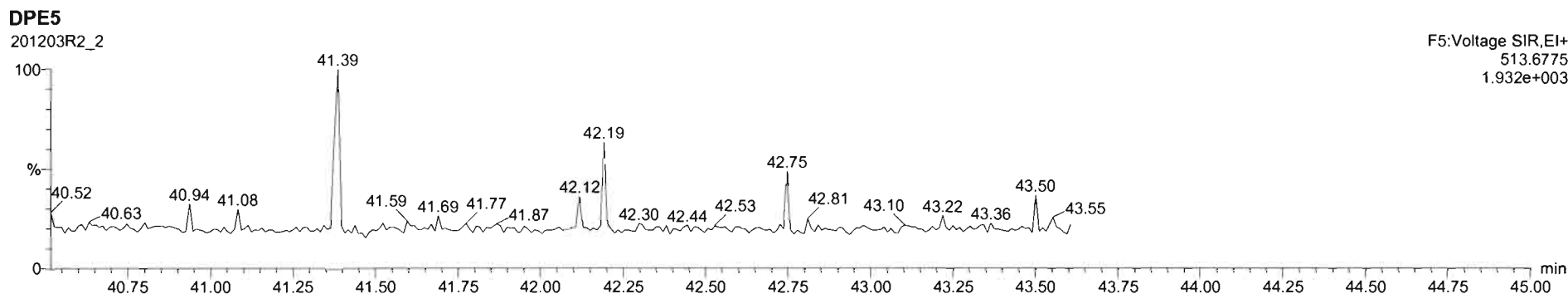
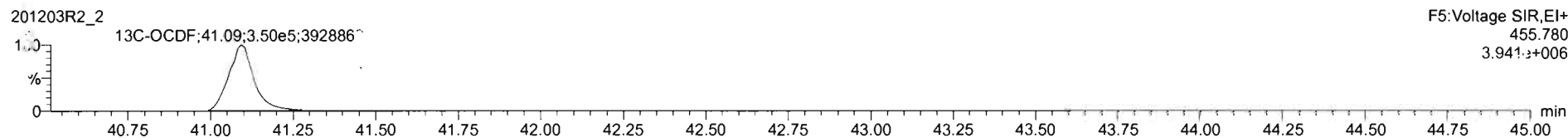
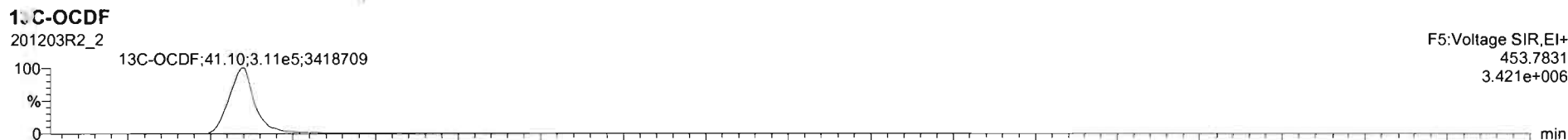
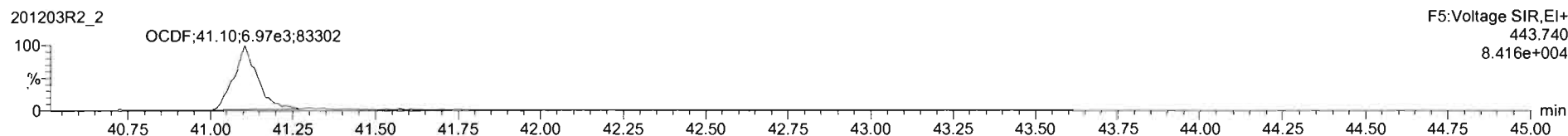
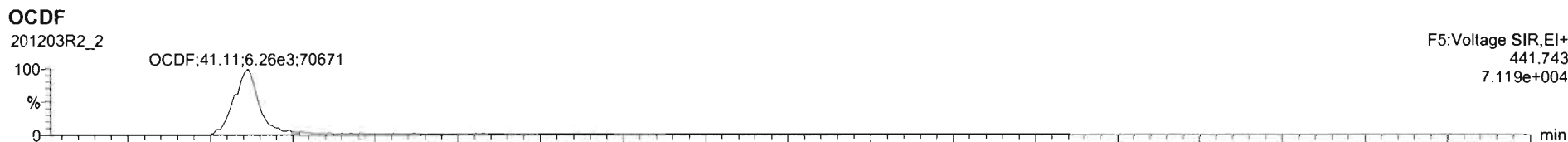


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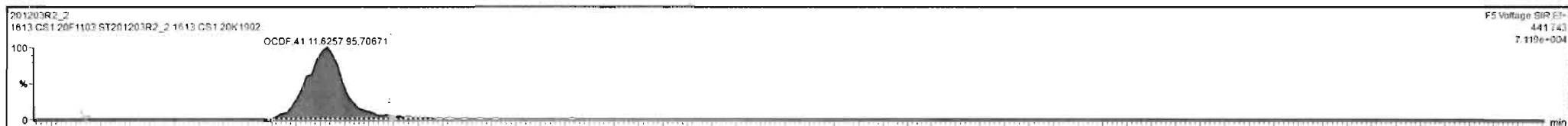
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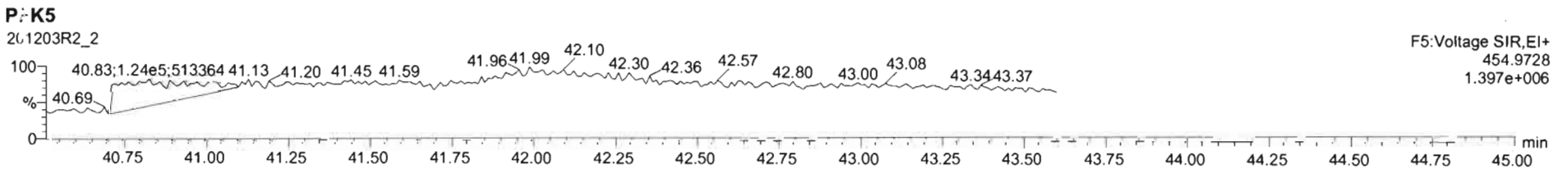
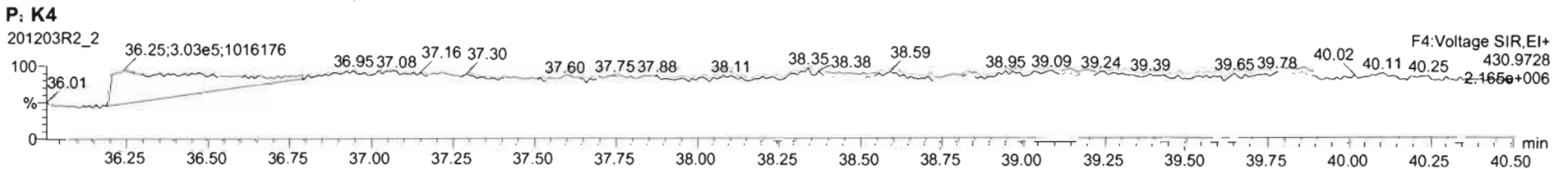
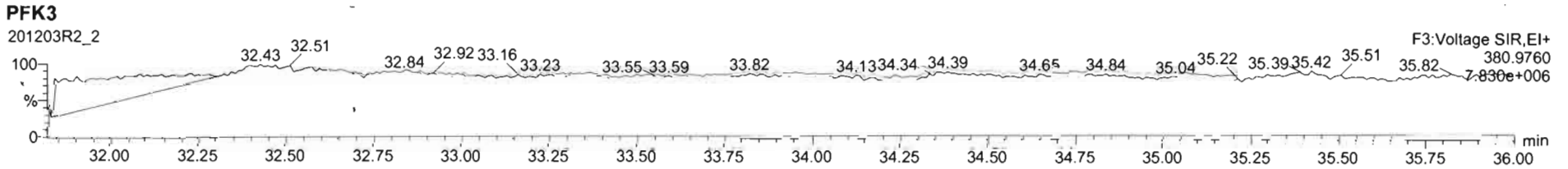
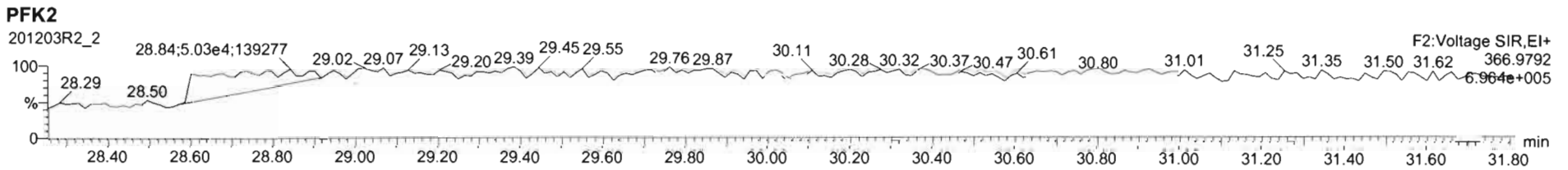
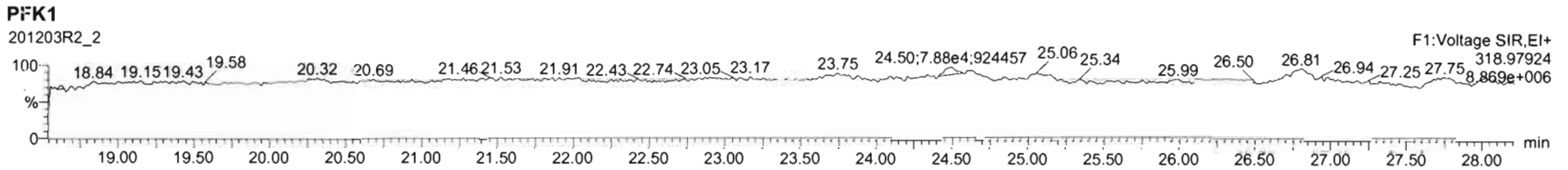
Name	Resp	RA	n/y	RRF	wf/wf	RT	RRT	Conc.	%Rec	DL	EMPC
16 1,2,3,4,7,8,9-HpCDF	7.84e3	1.00	NO	1.18	1.000	38.55	1.000	2.27	90.9	0.0487	2.27
17 OCDF	1.32e4	0.90	NO	0.90	1.000	41.11	1.000	4.46	89.3	0.0626	4.46
18 13C-2,3,7,8-TCDD	7.75e5	0.78	NO	1.06	1.000	25.18	1.021	90.5	90.5	0.123	
19 13C-1,2,3,7,8-PeCDD	5.51e5	0.63	NO	0.78	1.000	30.73	1.219	86.6	86.6	0.158	
20 13C-1,2,3,4,7,8-HxCDD	3.81e5	1.27	NO	0.62	1.000	34.04	1.014	82.5	88.5	0.261	
21 13C-1,2,3,8,7,8-HxCDD	4.55e5	1.28	NO	0.73	1.000	34.16	1.017	89.4	89.4	0.221	
22 13C-1,2,3,7,8,9-HxCDD	4.56e5	1.26	NO	0.72	1.000	34.43	1.025	91.0	91.0	0.224	
23 13C-1,2,3,4,8,7,8-HxCDD	3.37e5	1.05	NO	0.57	1.000	37.91	1.129	85.5	85.5	0.398	
24 13C-OCDD	5.80e5	0.88	NO	0.90	1.000	40.81	1.215	169	34.3	0.388	
25 13C-2,3,7,8-TCDF	1.14e6	0.79	NO	0.92	1.000	25.28	1.003	91.6	91.6	0.105	
26 13C-1,2,3,7,8-PeCDF	8.48e5	1.60	NO	0.72	1.000	29.48	1.169	87.3	87.3	0.328	
27 13C-2,3,4,7,8-PeCDF	8.14e5	1.59	NO	0.89	1.000	30.53	1.211	87.1	87.1	0.340	
28 13C-1,2,3,4,7,8-HxCDF	5.49e5	0.51	NO	0.87	1.000	33.14	0.987	90.7	90.7	0.268	
29 13C-1,2,3,6,7,8-HxCDF	5.90e5	0.52	NO	0.93	1.000	33.28	0.991	91.0	91.0	0.251	



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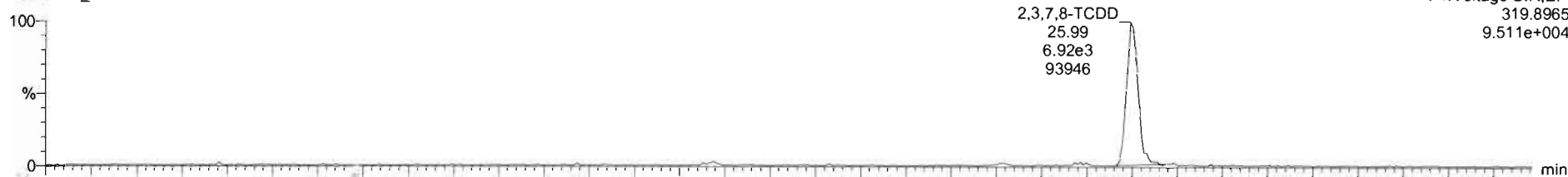
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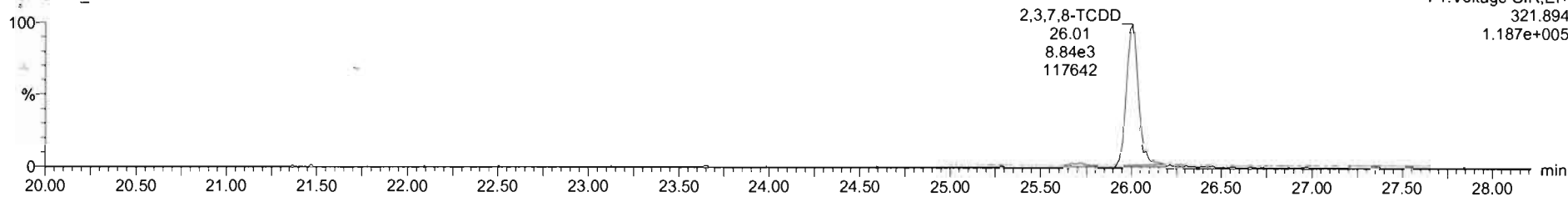
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2,3,7,8-TCDD

201203R2_3

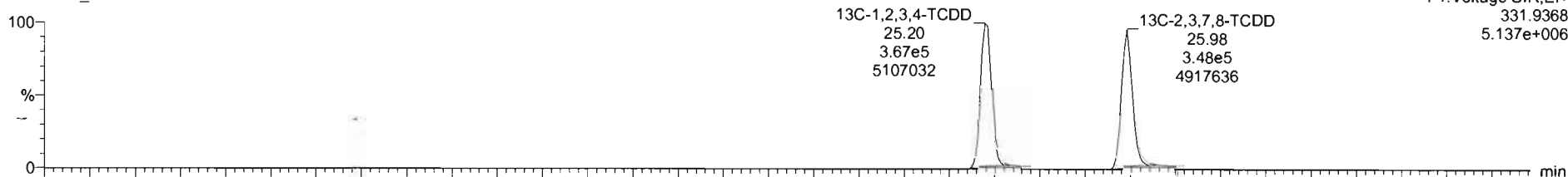


201203R2_3

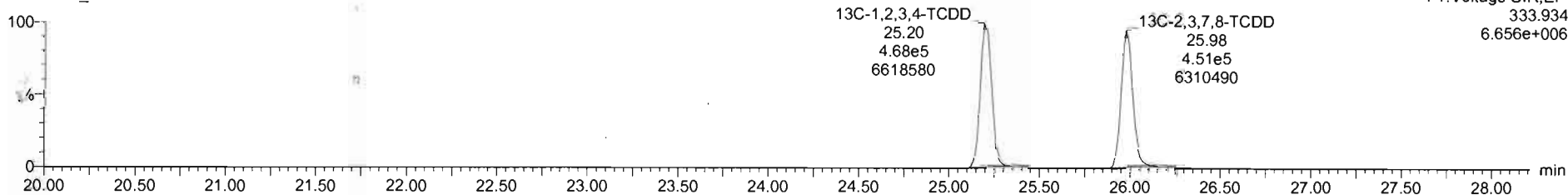


13C-2,3,7,8-TCDD

201203R2_3



201203R2_3



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

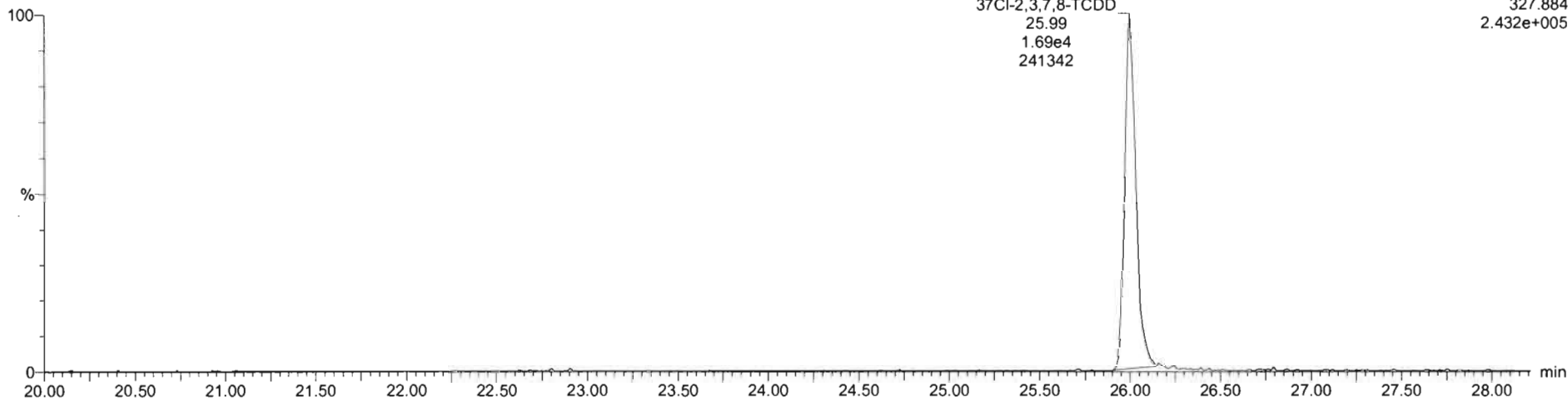
Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time

Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_3, Date: 03-Dec-2020, Time: 12:14:40, ID: ST201203R2_3 1613 CS2 20K1903, Description: 1613 CS2 20K1903

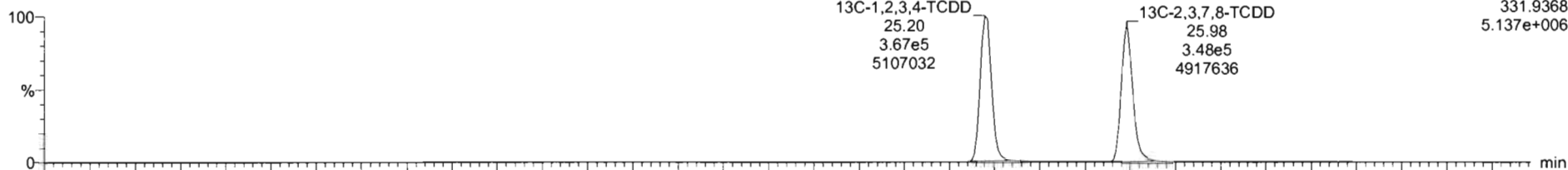
37Cl-2,3,7,8-TCDD

201203R2_3

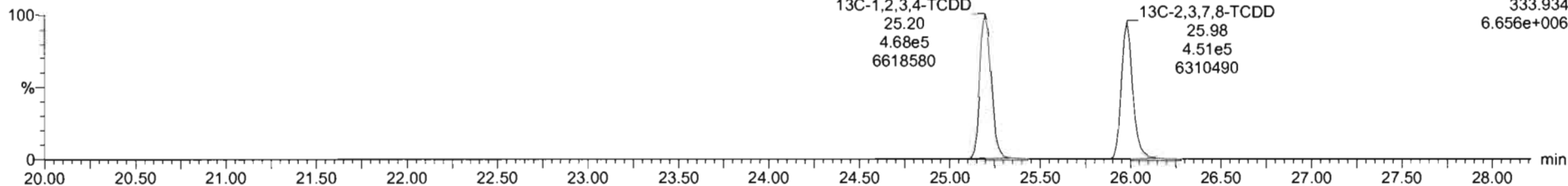


13C-1,2,3,4-TCDD

201203R2_3



201203R2_3



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

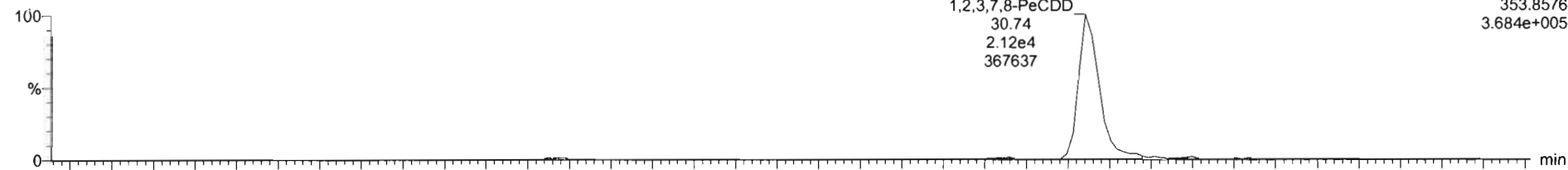
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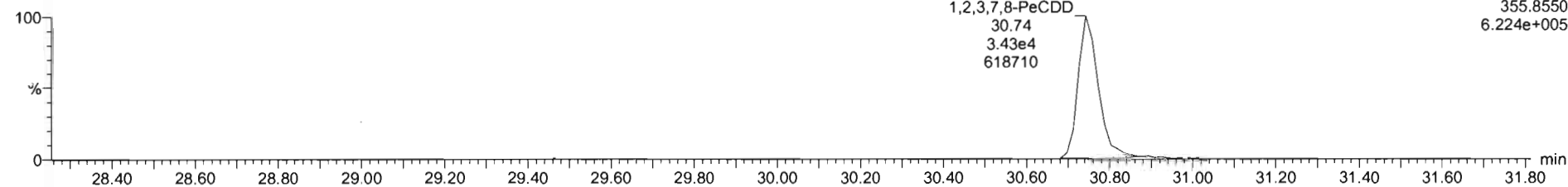
Name: 201203R2_3, Date: 03-Dec-2020, Time: 12:14:40, ID: ST201203R2_3 1613 CS2 20K1903, Description: 1613 CS2 20K1903

1,2,3,7,8-PeCDD

201203R2_3

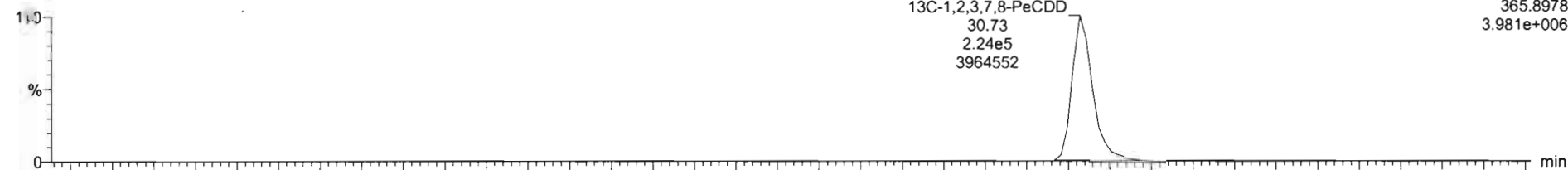


201203R2_3

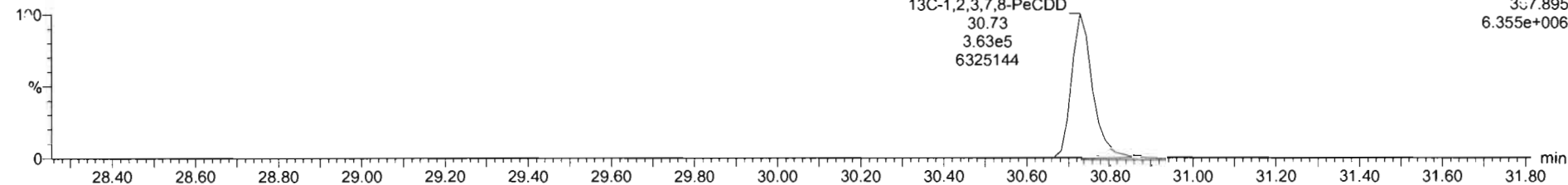


13C-1,2,3,7,8-PeCDD

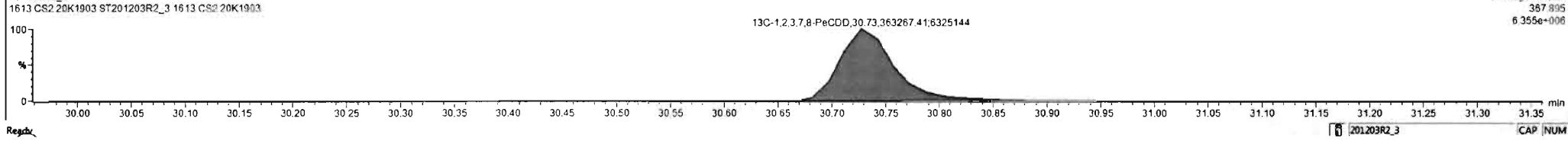
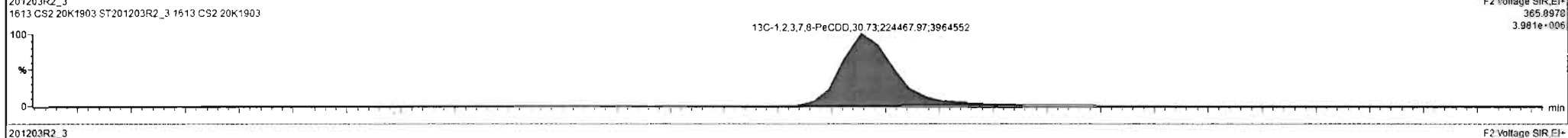
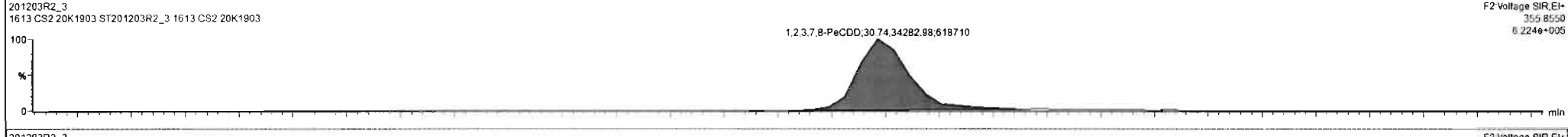
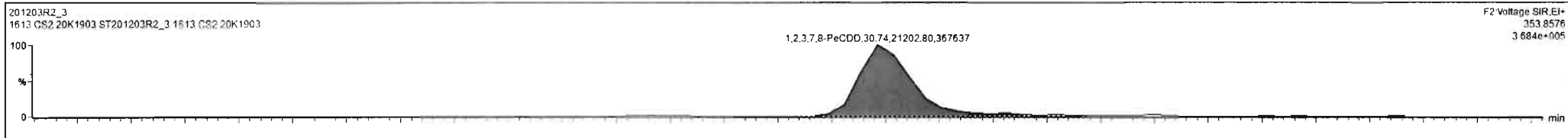
201203R2_3



201203R2_3



#	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	1.58e4	8.00e5	0.77	0.78	NO	0.9805	26.01	25.99	NO	1.001	1.001	2.01	100	NO
2	1,2,3,7,8-PeCDD	5.55e4	5.05e5	0.63	0.62	NO	0.9320	30.74	30.74	NO	1.000	1.000	10.1	101	NO
3	1,2,3,4,7,8-HxCDD	4.12e4	4.08e5	1.24	1.22	NO	1.0203	34.04	34.05	NO	1.000	1.001	9.96	99.6	NO
4	1,2,3,6,7,8-HxCDD	4.48e4	4.87e5	1.24	1.32	NO	0.9025	34.16	34.17	NO	1.000	1.001	10.2	102	NO
5	1,2,3,7,8,9-HxCDD	4.69e4	4.87e5	1.24	1.23	NO	0.9552	34.43	34.44	NO	1.000	1.001	10.1	101	NO
6	1,2,3,4,6,7,8-HpCDD	3.39e4	3.72e5	1.04	1.06	NO	0.9180	37.90	37.92	NO	1.000	1.001	9.91	99.1	NO
7	OCDD	5.89e4	6.66e5	0.89	0.84	NO	0.8658	40.80	40.81	NO	1.000	1.000	20.4	102	NO
8	1,2,3,7,8-TCDF	1.90e4	1.17e6	0.77	0.75	NO	0.8480	25.29	25.30	NO	1.000	1.001	1.92	96.0	NO
9	1,2,3,7,8-PeCDF	8.91e4	9.03e5	1.55	1.63	NO	0.9597	29.47	29.48	NO	1.000	1.000	10.3	103	NO
10	1,2,3,4,7,8-PeCDF	9.54e4	8.55e5	1.55	1.63	NO	1.0671	30.53	30.55	NO	1.000	1.000	10.5	105	NO
11	1,2,3,4,7,8-HxCDF	6.08e4	5.80e5	1.24	1.26	NO	0.9859	33.14	33.15	NO	1.000	1.000	10.6	106	NO
12	1,2,3,6,7,8-HxCDF	6.64e4	6.28e5	1.24	1.27	NO	1.0388	33.27	33.29	NO	1.000	1.001	10.2	102	NO
13	1,2,3,4,6,7,8-HxCDF	5.87e4	5.85e5	1.24	1.26	NO	1.0202	33.93	33.95	NO	1.000	1.001	10.2	102	NO
14	1,2,3,7,8,9-HxCDF	5.03e4	5.05e5	1.24	1.25	NO	0.9888	34.92	34.94	NO	1.000	1.001	10.1	101	NO



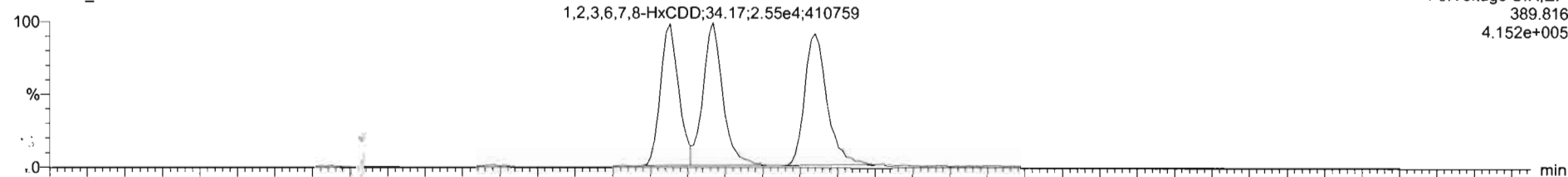
Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

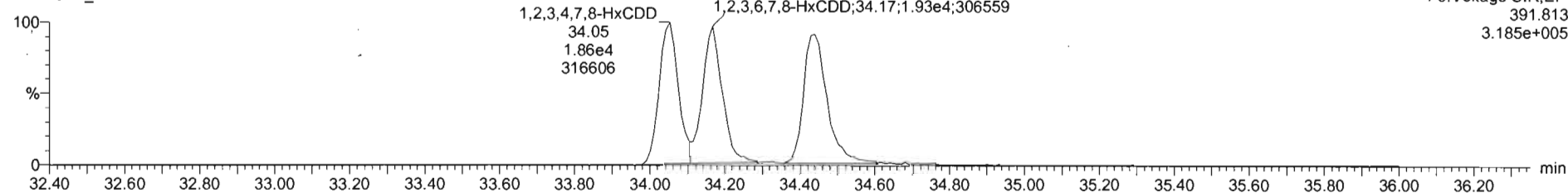
Name: 201203R2_3, Date: 03-Dec-2020, Time: 12:14:40, ID: ST201203R2_3 1613 CS2 20K1903, Description: 1613 CS2 20K1903

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

201203R2_3

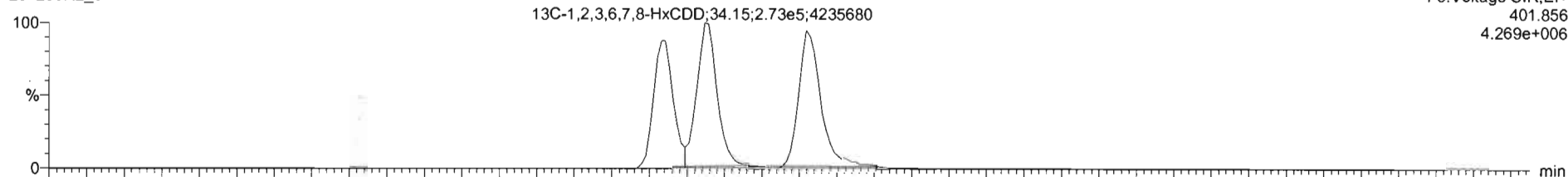


201203R2_3

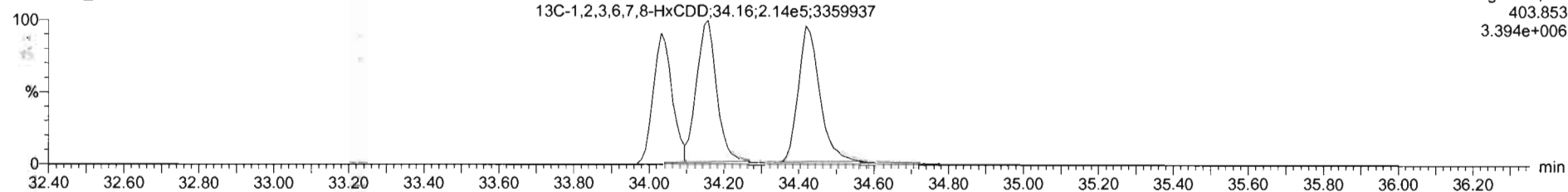


13C-1,2,3,4,7,8-HxCDD

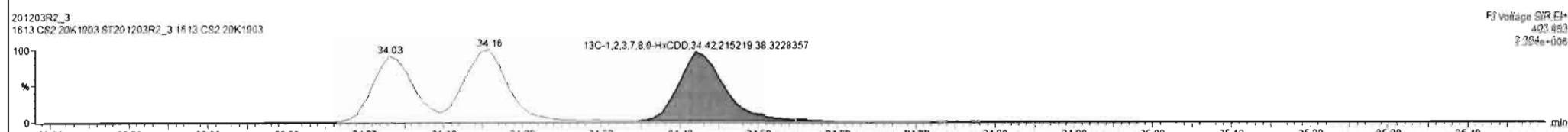
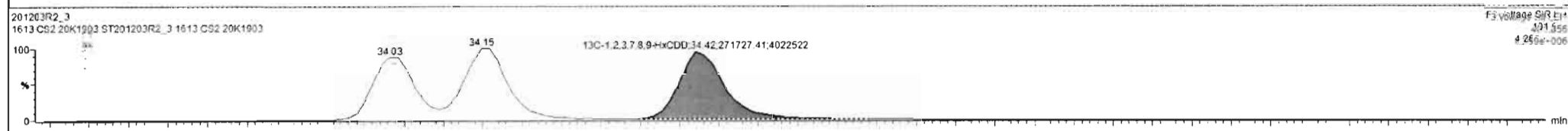
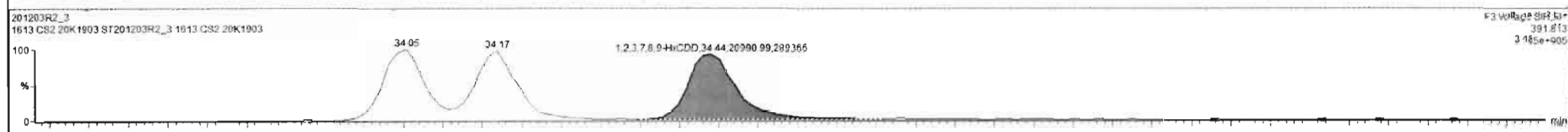
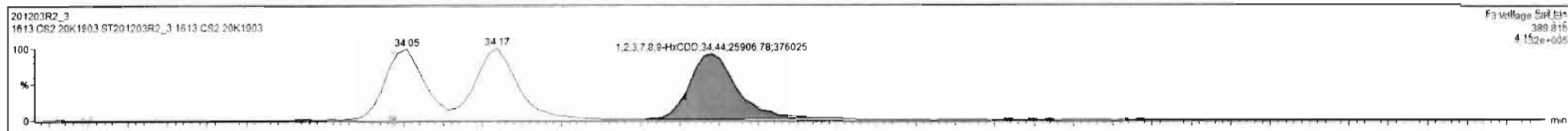
201203R2_3



201203R2_3



#	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	1.58e4	8.00e5	0.77	0.78	NO	0.9005	26.01	25.99	NO	1.001	1.001	2.01	100	NO
2	1,2,3,7,8-PeCDD	5.55e4	5.86e5	0.63	0.62	NO	0.9320	30.74	30.74	NO	1.000	1.000	10.1	101	NO
3	1,2,3,4,7,8-HxCDD	4.12e4	4.06e5	1.24	1.22	NO	1.0203	34.04	34.05	NO	1.000	1.001	9.96	99.6	NO
4	1,2,3,6,7,8-HxCDD	4.48e4	4.87e5	1.24	1.32	NO	0.9025	34.16	34.17	NO	1.000	1.001	10.2	102	NO
5	1,2,3,7,8,9-HxCDD	4.89e4	4.87e5	1.24	1.23	NO	0.9552	34.43	34.44	NO	1.000	1.001	10.1	101	NO
6	1,2,3,4,8,9-HpCDD	3.39e4	3.72e5	1.04	1.06	NO	0.9180	37.90	37.92	NO	1.000	1.001	9.91	99.1	NO
7	OCDD	5.89e4	6.66e5	0.89	0.84	NO	0.8658	40.80	40.81	NO	1.000	1.000	20.4	102	NO
8	2,3,7,8-TCDF	1.90e4	1.17e6	0.77	0.75	NO	0.8480	25.29	25.30	NO	1.000	1.001	1.92	96.0	NO
9	1,2,3,7,8-PeCDF	8.91e4	9.03e5	1.55	1.63	NO	0.9597	29.47	29.48	NO	1.000	1.000	10.3	103	NO
10	2,3,4,7,8-PeCDF	9.54e4	8.55e5	1.55	1.63	NO	1.0671	30.53	30.55	NO	1.000	1.000	10.5	105	NO
11	1,2,3,4,7,8-HxCDF	6.08e4	5.80e5	1.24	1.26	NO	0.9859	33.14	33.15	NO	1.000	1.000	10.6	106	NO
12	1,2,3,6,7,8-HxCDF	6.64e4	6.28e5	1.24	1.27	NO	1.0388	33.27	33.29	NO	1.000	1.001	10.2	102	NO
13	2,3,4,6,7,8-HxCDF	5.87e4	5.85e5	1.24	1.26	NO	1.0202	33.93	33.95	NO	1.000	1.001	10.2	102	NO
14	1,2,3,7,8,9-HxCDF	5.03e4	5.05e5	1.24	1.26	NO	0.9868	34.92	34.94	NO	1.000	1.001	10.1	101	NO



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

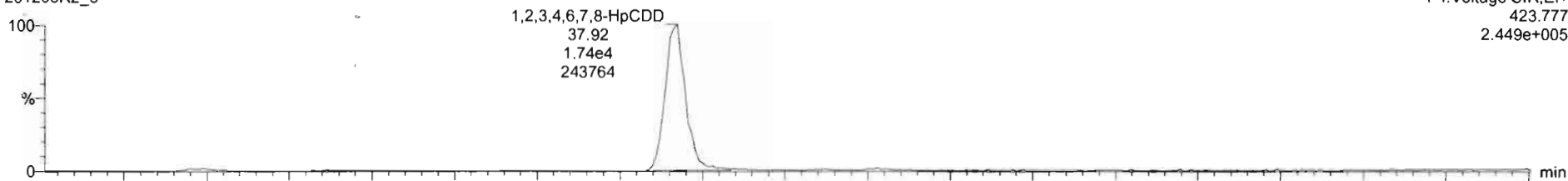
Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time

Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

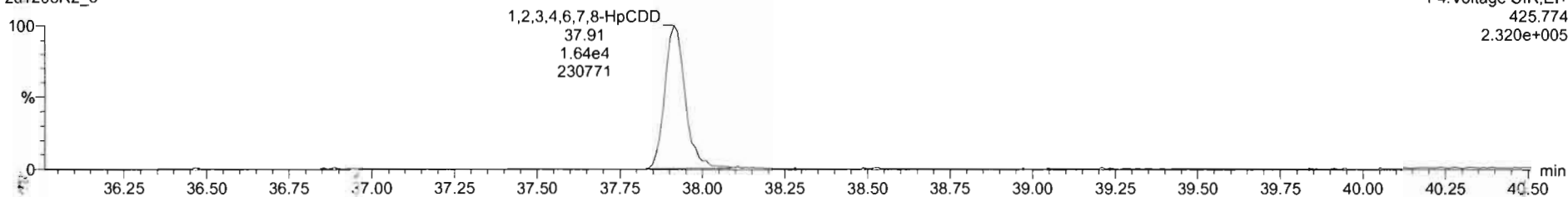
Name: 201203R2_3, Date: 03-Dec-2020, Time: 12:14:40, ID: ST201203R2_3 1613 CS2 20K1903, Description: 1613 CS2 20K1903

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

201203R2_3

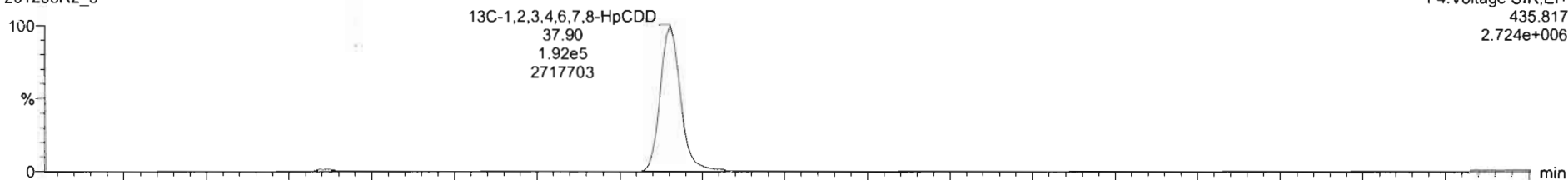


201203R2_3

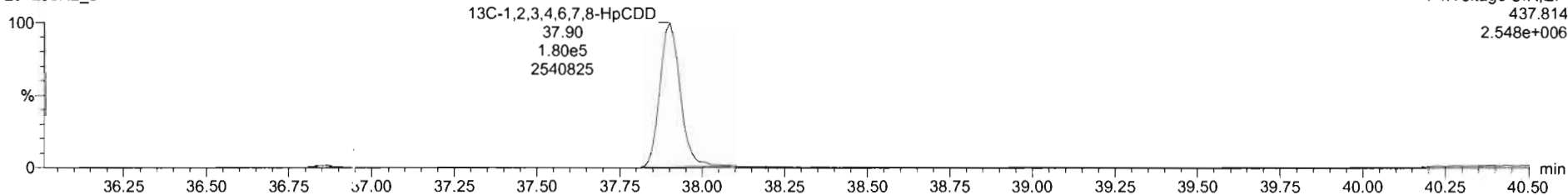


13C-1,2,3,4,6,7,8-HpCDD

201203R2_3

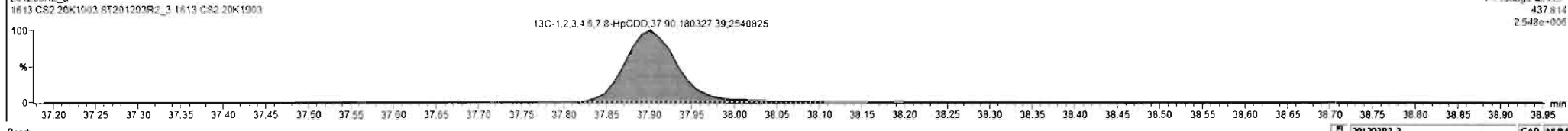
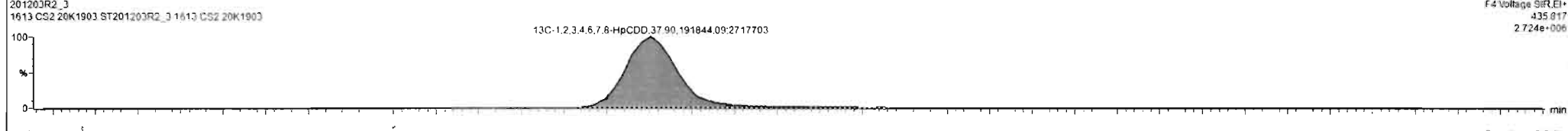
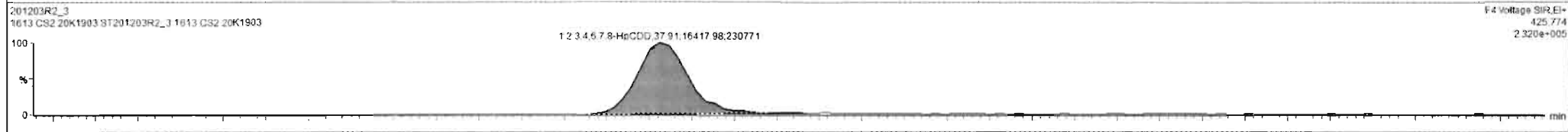
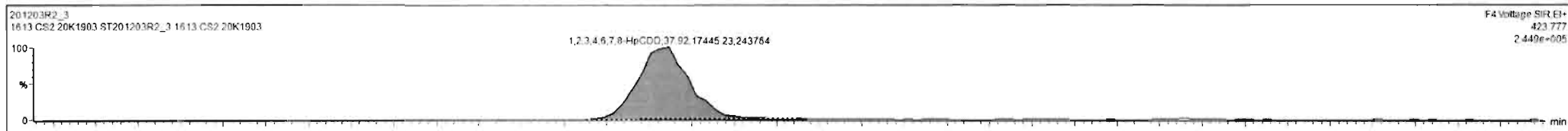


201203R2_3



201203R2_3 - ST201203R2_3 1613 CS2 20K1903 . 1613 CS2 20K1903

#	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	1.58e4	8.00e5	0.77	0.78	NO	0.9005	26.01	25.99	NO	1.001	1.001	2.91	100	NO
2	1,2,3,7,8-PeCDD	5.55e4	5.88e5	0.53	0.62	NO	0.9320	30.74	30.74	NO	1.000	1.000	10.1	101	NO
3	1,2,3,4,7,8-HxCDD	4.12e4	4.06e5	1.24	1.22	NO	1.0203	34.04	34.05	NO	1.000	1.001	9.96	99.6	NO
4	1,2,3,6,7,8-HxCDD	4.48e4	4.87e5	1.24	1.32	NO	0.9025	34.16	34.17	NO	1.000	1.001	10.2	102	NO
5	1,2,3,7,8,9-HxCDD	4.69e4	4.87e5	1.24	1.23	NO	0.9552	34.43	34.44	NO	1.000	1.001	10.1	101	NO
6	1,2,3,4,6,7,8-HpCDD	3.39e4	3.72e5	1.04	1.06	NO	0.9180	37.90	37.92	NO	1.000	1.001	9.91	99.1	NO
7	OCDF	5.89e4	6.66e5	0.89	0.84	NO	0.8658	40.80	40.81	NO	1.000	1.000	20.4	102	NO
8	2,3,7,8-TCDF	1.90e4	1.17e6	0.77	0.75	NO	0.8480	25.29	25.30	NO	1.000	1.001	1.92	96.0	NO
9	1,2,3,7,8-PeCDF	8.91e4	9.03e5	1.55	1.63	NO	0.9597	29.47	29.48	NO	1.000	1.000	10.3	103	NO
10	2,3,4,7,8-PeCDF	9.54e4	8.55e5	1.55	1.63	NO	1.0671	30.53	30.55	NO	1.000	1.000	10.5	105	NO
11	1,2,3,4,7,8-HxCDF	6.08e4	5.80e5	1.24	1.26	NO	0.9859	33.14	33.15	NO	1.000	1.000	10.6	106	NO
12	1,2,3,6,7,8-HxCDF	6.64e4	6.28e5	1.24	1.27	NO	1.0388	33.27	33.29	NO	1.000	1.001	10.2	102	NO
13	2,3,4,6,7,8-HxCDF	5.87e4	5.85e5	1.24	1.26	NO	1.0202	33.93	33.95	NO	1.000	1.001	10.2	102	NO
14	1,2,3,7,8,9-HxCDF	5.03e4	5.05e5	1.24	1.25	NO	0.9888	34.92	34.94	NO	1.000	1.001	10.1	101	NO

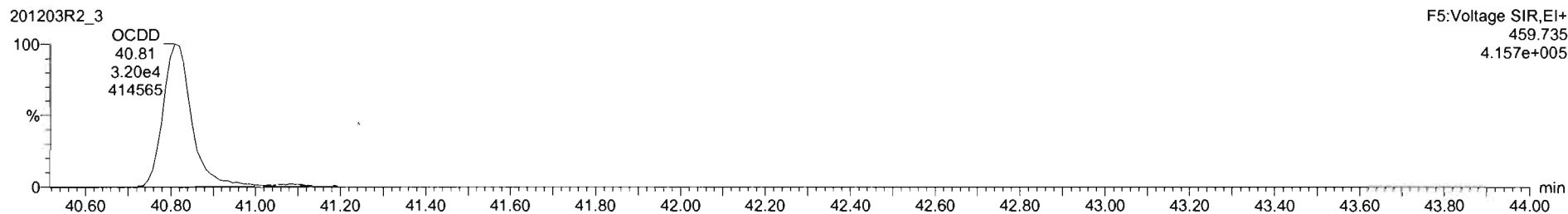
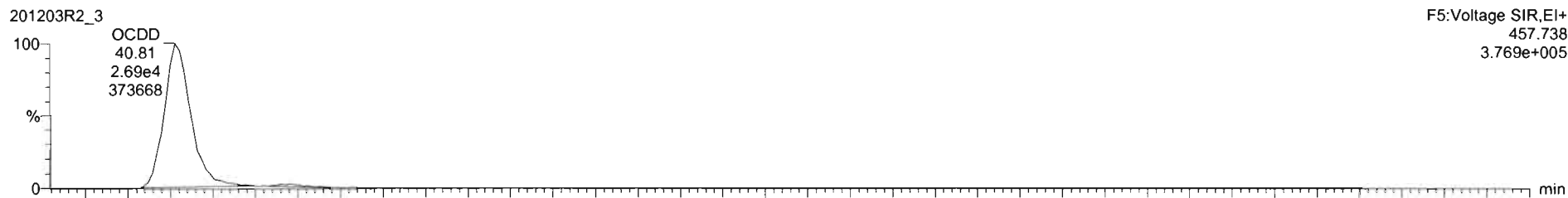


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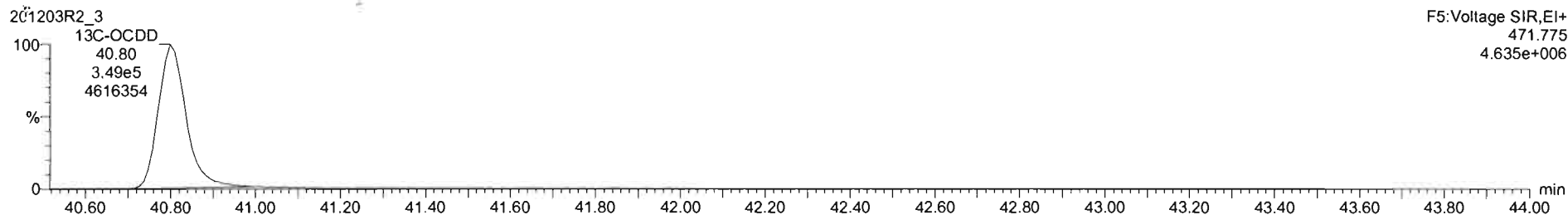
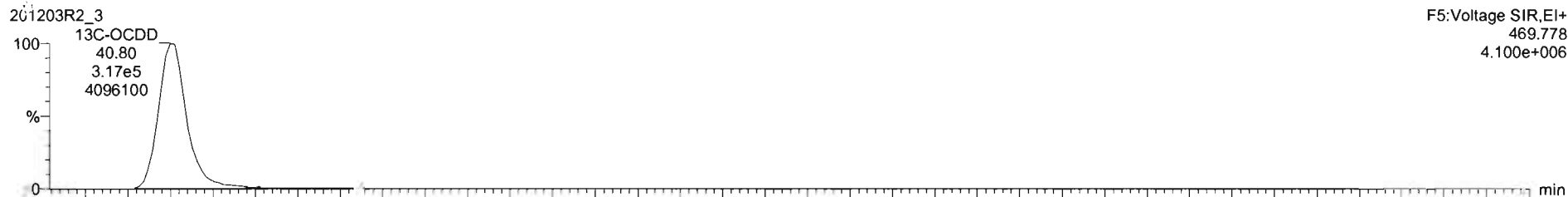
Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_3, Date: 03-Dec-2020, Time: 12:14:40, ID: ST201203R2_3 1613 CS2 20K1903, Description: 1613 CS2 20K1903

OCDD

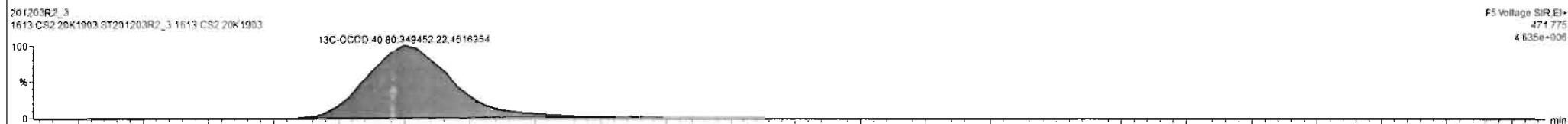
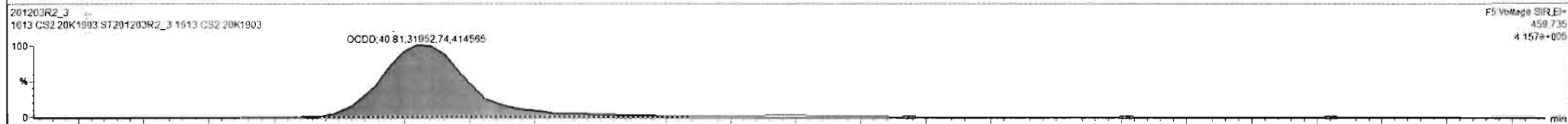


¹³C-OCDD



201203R2_3 - ST201203R2_3 1613 CS2 20K1903 1613 CS2 20K1903

#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	2,3,7,8-TCDD	1.58e4	8.00e5	0.77	0.78	NO	0.9805	26.01	25.99	NO	1.001	1.001	2.01	100	NO
2	1,2,3,7,8-PeCDD	5.55e4	5.88e5	0.63	0.62	NO	0.9320	30.74	30.74	NO	1.000	1.000	10.1	101	NO
3	1,2,3,4,7,8-HxCDD	4.12e4	4.06e5	1.24	1.22	NO	1.0203	34.04	34.05	NO	1.000	1.001	9.96	99.6	NO
4	1,2,3,6,7,8-HxCDD	4.48e4	4.87e5	1.24	1.32	NO	0.9025	34.16	34.17	NO	1.000	1.001	10.2	102	NO
5	1,2,3,7,8,9-HxCDD	4.69e4	4.87e5	1.24	1.23	NO	0.9552	34.43	34.44	NO	1.000	1.001	10.1	101	NO
6	1,2,3,6,7,8-HpCDD	3.39e4	3.72e5	1.04	1.08	NO	0.9190	37.90	37.92	NO	1.000	1.001	9.91	99.1	NO
7	OCDD	5.89e4	6.66e5	0.89	0.84	NO	0.9858	40.80	40.81	NO	1.000	1.000	20.4	102	NO
8	2,3,7,8-TCDF	1.90e4	1.17e6	0.77	0.75	NO	0.8460	25.29	25.30	NO	1.000	1.001	1.92	99.0	NO
9	1,2,3,7,8-PeCDF	8.91e4	9.03e5	1.55	1.63	NO	0.9597	29.47	29.48	NO	1.000	1.000	10.3	103	NO
10	2,3,4,7,8-PeCDF	9.54e4	8.55e5	1.55	1.63	NO	1.0871	30.53	30.55	NO	1.000	1.000	10.5	105	NO
11	1,2,3,4,7,8-HxCDF	6.08e4	5.80e5	1.24	1.26	NO	0.9859	33.14	33.15	NO	1.000	1.000	10.6	106	NO
12	1,2,3,6,7,8-HxCDF	6.64e4	6.28e5	1.24	1.27	NO	1.0388	33.27	33.29	NO	1.000	1.001	10.2	102	NO
13	2,3,4,6,7,8-HxCDF	5.87e4	5.85e5	1.24	1.26	NO	1.0202	33.93	33.95	NO	1.000	1.001	10.2	102	NO
14	1,2,3,7,8,9-HxCDF	5.07e4	5.05e5	1.24	1.25	NO	0.9888	34.92	34.94	NO	1.000	1.001	10.1	101	NO



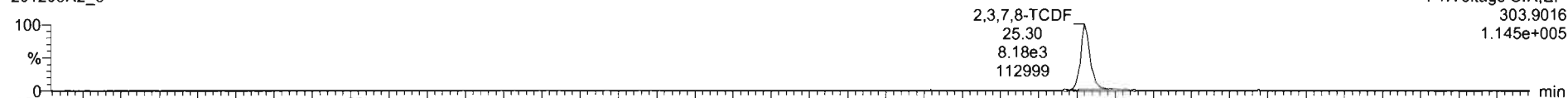
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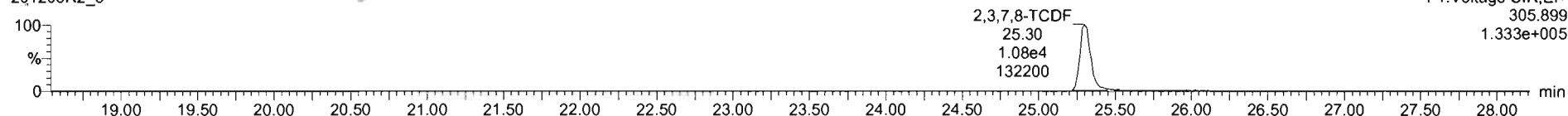
N..me: 201203R2_3, Date: 03-Dec-2020, Time: 12:14:40, ID: ST201203R2_3 1613 CS2 20K1903, Description: 1613 CS2 20K1903

2,3,7,8-TCDF

201203R2_3

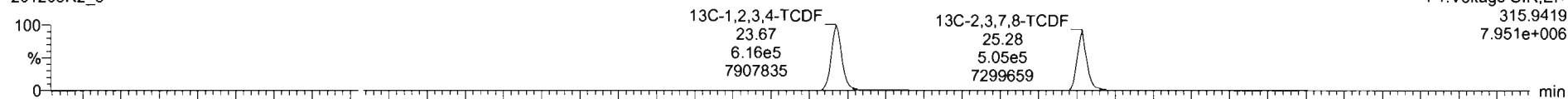


201203R2_3

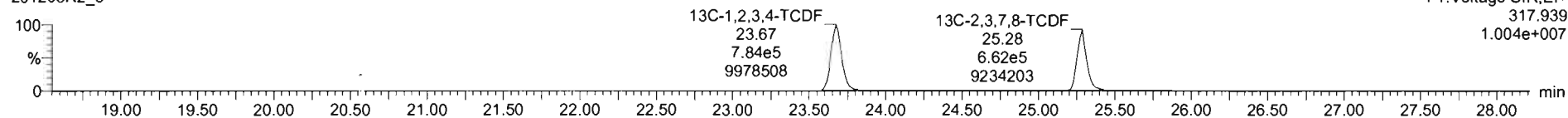


13C-2,3,7,8-TCDF

201203R2_3

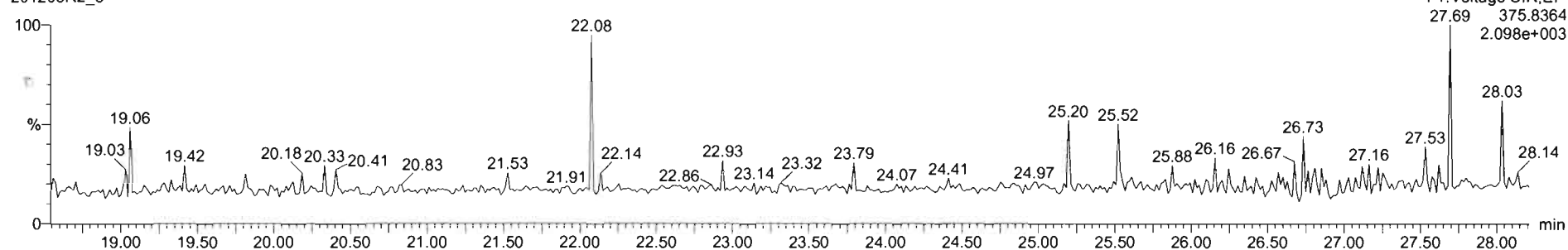


201203R2_3

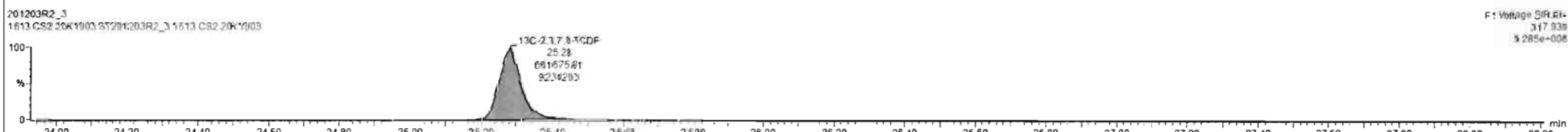
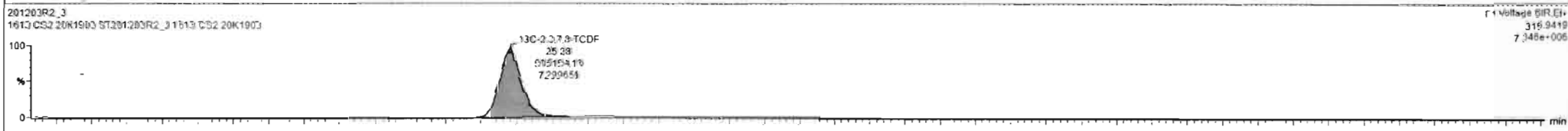
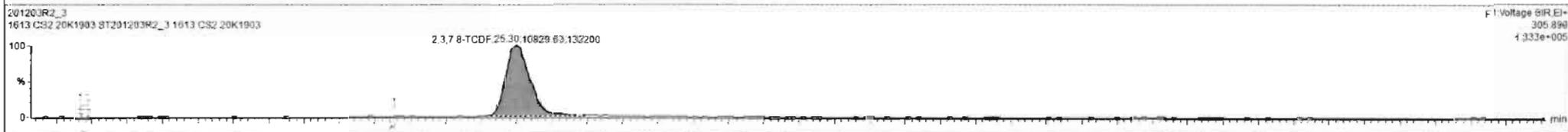


DPE1

201203R2_3



#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	2,3,7,8-TCDD	1.56e4	8.06e5	0.77	0.78	NO	0.9805	26.01	25.99	NO	1.001	1.001	2.01	100	NO
2	1,2,3,7,8-PeCDD	5.55e4	5.88e5	0.63	0.62	NO	0.9320	30.74	30.74	NO	1.000	1.000	10.1	101	NO
3	1,2,3,4,7,8-HxCDD	4.12e4	4.06e5	1.24	1.22	NO	1.0203	34.04	34.05	NO	1.000	1.001	9.96	99.6	NO
4	1,2,3,6,7,8-HxCDD	4.48e4	4.87e5	1.24	1.32	NO	0.9025	34.16	34.17	NO	1.000	1.001	10.2	102	NO
5	1,2,3,7,8,9-HxCDD	4.69e4	4.87e5	1.24	1.23	NO	0.9552	34.43	34.44	NO	1.000	1.001	10.1	101	NO
6	1,2,3,4,6,7,8-HpCDD	3.39e4	3.72e5	1.04	1.06	NO	0.9180	37.90	37.92	NO	1.000	1.001	9.91	99.1	NO
7	OCDD	5.89e4	6.66e5	0.89	0.84	NO	0.8658	40.80	40.81	NO	1.000	1.000	20.4	102	NO
8	2,3,7,8-TCDF	1.90e4	1.17e6	0.77	0.75	NO	1.2400	25.29	25.30	NO	1.000	1.001	1.92	95.0	NO
9	1,2,3,7,8-PeCDF	8.91e4	9.03e5	1.55	1.63	NO	0.9597	29.47	29.48	NO	1.000	1.000	10.3	103	NO
10	2,3,4,7,8-PeCDF	9.54e4	8.55e5	1.55	1.63	NO	1.0871	30.53	30.55	NO	1.000	1.000	10.5	105	NO
11	1,2,3,4,7,8-HxCDF	6.08e4	5.80e5	1.24	1.26	NO	0.9859	33.14	33.15	NO	1.000	1.000	10.6	106	NO
12	1,2,3,6,7,8-HxCDF	6.54e4	6.28e5	1.24	1.27	NO	1.0388	33.27	33.29	NO	1.000	1.001	10.2	102	NO
13	2,3,4,6,7,8-HxCDF	5.87e4	5.85e5	1.24	1.26	NO	1.0202	33.93	33.95	NO	1.000	1.001	10.2	102	NO
14	1,2,3,7,8,9-HxCDF	5.03e4	5.05e5	1.24	1.25	NO	0.9888	34.92	34.94	NO	1.000	1.001	10.1	101	NO



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

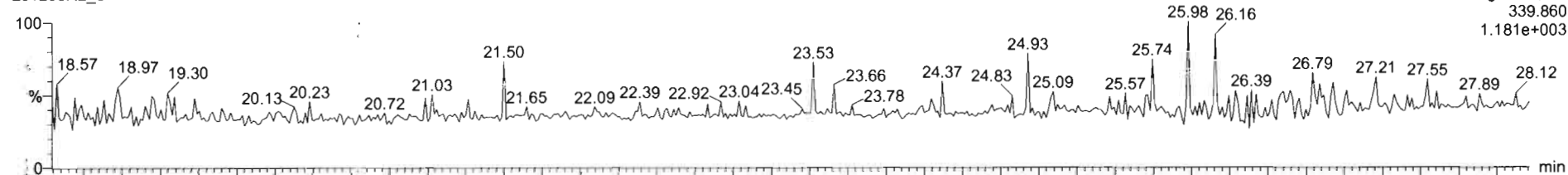
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

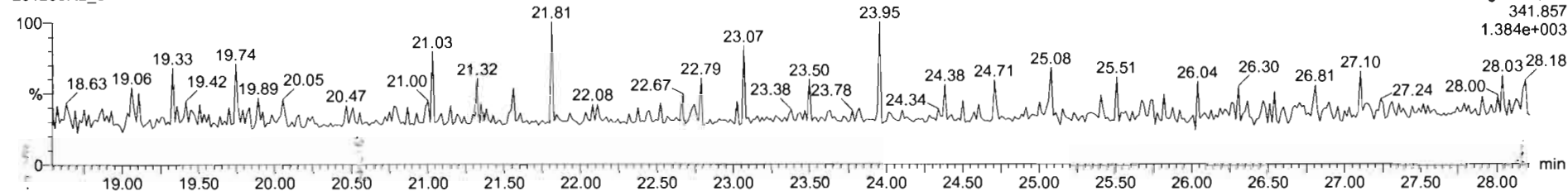
Name: 201203R2_3, Date: 03-Dec-2020, Time: 12:14:40, ID: ST201203R2_3 1613 CS2 20K1903, Description: 1613 CS2 20K1903

1st Func. Penta-Furans

201203R2_3

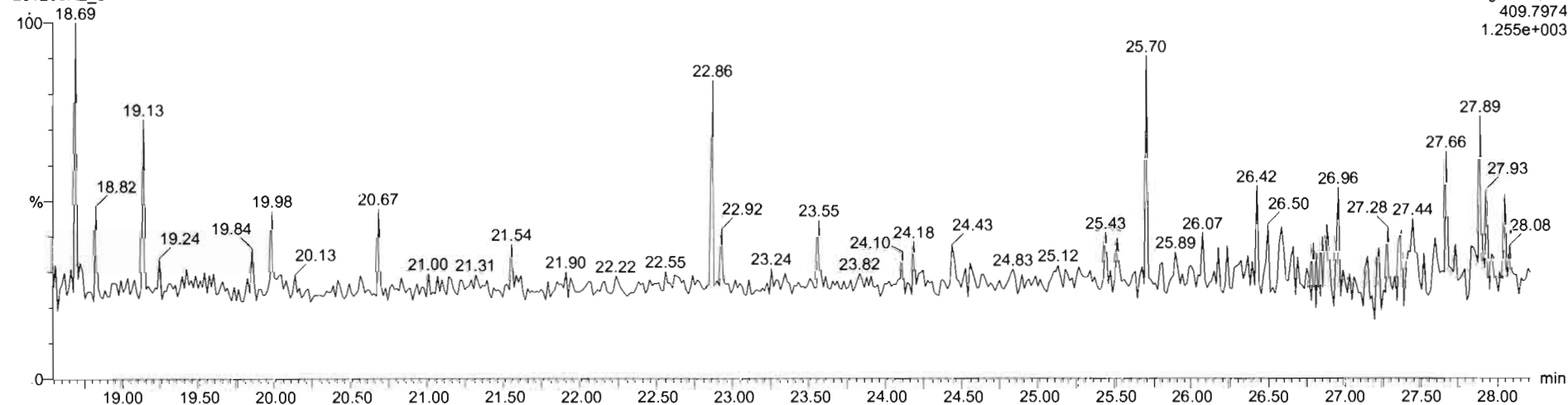


201203R2_3



DPE6

201203R2_3



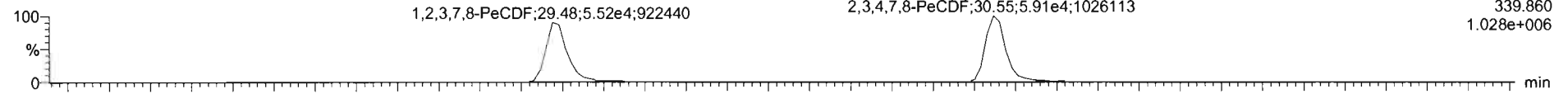
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Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_3, Date: 03-Dec-2020, Time: 12:14:40, ID: ST201203R2_3 1613 CS2 20K1903, Description: 1613 CS2 20K1903

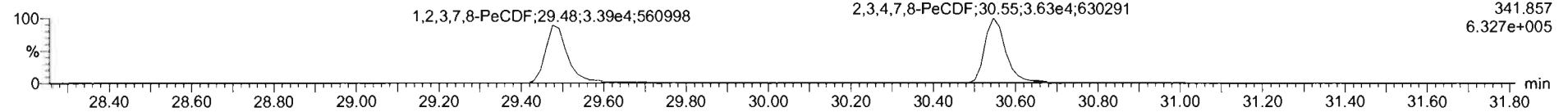
1,2,3,7,8-PeCDF

201203R2_3



F2:Voltage SIR,EI+
339.860
1.028e+006

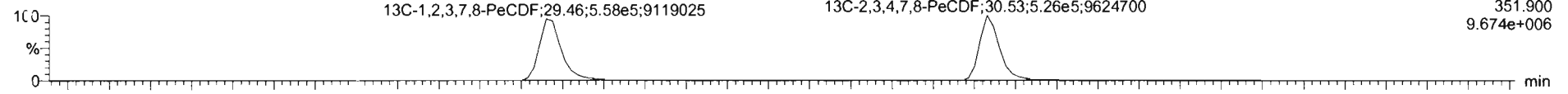
201203R2_3



F2:Voltage SIR,EI+
341.857
6.327e+005

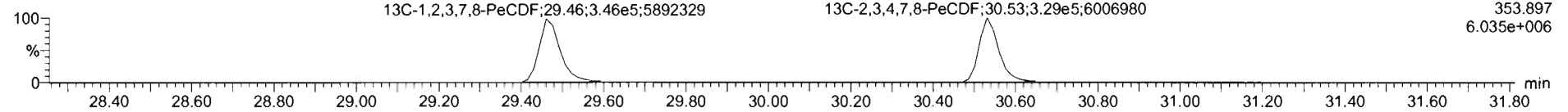
13C-1,2,3,7,8-PeCDF

201203R2_3



F2:Voltage SIR,EI+
351.900
9.674e+006

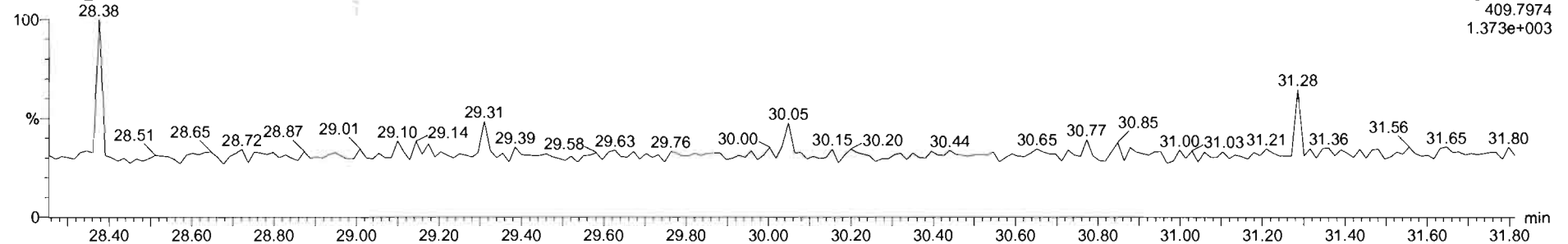
201203R2_3



F2:Voltage SIR,EI+
353.897
6.035e+006

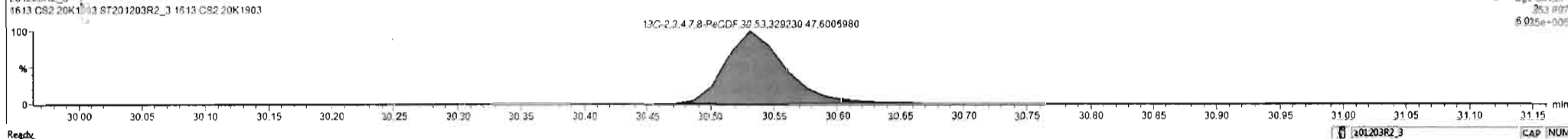
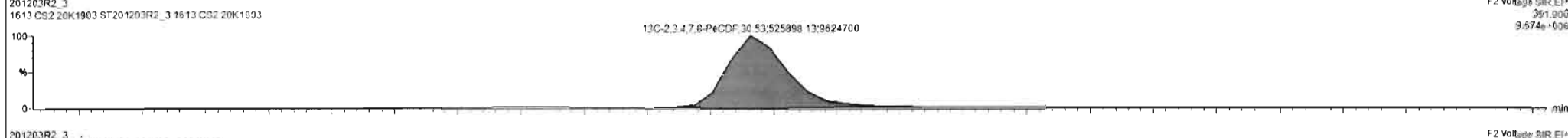
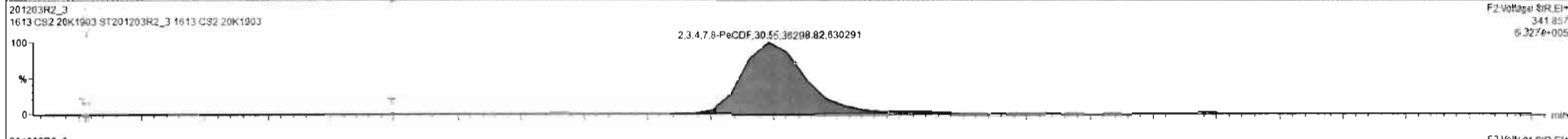
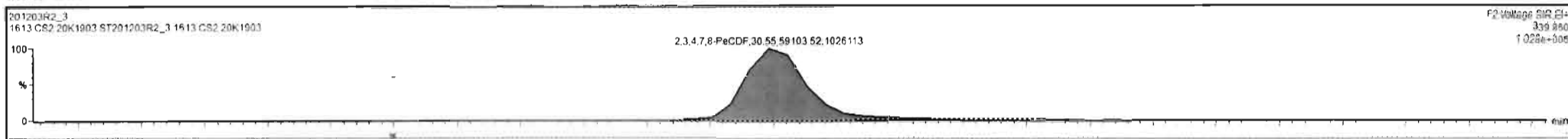
DPE2

201203R2_3



F2:Voltage SIR,EI+
409.7974
1.373e+003

#	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	1.58e4	8.00e5	0.77	0.78	NO	0.9805	28.01	25.99	NO	1.001	1.001	2.01	100	NO
2	1,2,3,7,8-PeCDD	5.55e4	5.88e5	0.63	0.62	NO	0.9320	30.74	30.74	NO	1.000	1.000	10.1	101	NO
3	1,2,3,4,7,8-HxCDD	4.12e4	4.06e5	1.24	1.22	NO	1.0203	34.04	34.05	NO	1.000	1.001	9.96	99.6	NO
4	1,2,3,6,7,8-HxCDD	4.48e4	4.87e5	1.24	1.32	NO	0.9025	34.16	34.17	NO	1.000	1.001	10.2	102	NO
5	1,2,3,7,8,9-HxCDD	4.69e4	4.87e5	1.24	1.23	NO	0.9552	34.43	34.44	NO	1.000	1.001	10.1	101	NO
6	1,2,3,4,6,7,8-HpCDD	3.39e4	3.72e5	1.04	1.06	NO	0.9190	37.90	37.92	NO	1.000	1.001	9.91	99.1	NO
7	OCDD	5.89e4	6.66e5	0.89	0.84	NO	0.8658	40.80	40.81	NO	1.000	1.000	20.4	102	NO
8	2,3,7,8-TCDF	1.90e4	1.17e6	0.77	0.75	NO	0.8480	25.29	25.30	NO	1.000	1.001	1.92	98.0	NO
9	1,2,3,7,8-PeCDF	8.91e4	9.03e5	1.55	1.63	NO	0.9597	29.47	29.48	NO	1.000	1.000	10.3	103	NO
10	1,2,3,4,7,8-PeCDF	9.54e4	9.55e5	1.55	1.63	NO	1.0671	30.53	30.55	NO	1.000	1.000	10.5	105	NO
11	1,2,3,4,7,8-HxCDF	6.08e4	5.80e5	1.24	1.26	NO	0.9859	33.14	33.15	NO	1.000	1.000	10.6	106	NO
12	1,2,3,6,7,8-HxCDF	6.64e4	6.28e5	1.24	1.27	NO	1.0368	33.27	33.29	NO	1.000	1.001	10.2	102	NO
13	1,2,3,4,6,7,8-HxCDF	5.87e4	5.85e5	1.24	1.26	NO	1.0202	33.93	33.95	NO	1.000	1.001	10.2	102	NO
14	1,2,3,7,8,9-HxCDF	5.03e4	5.05e5	1.24	1.25	NO	0.9888	34.92	34.94	NO	1.000	1.001	12.1	101	NO

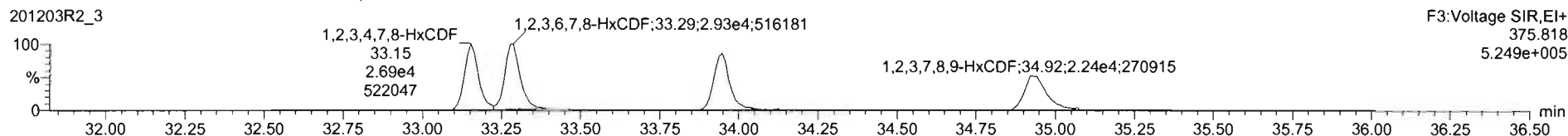
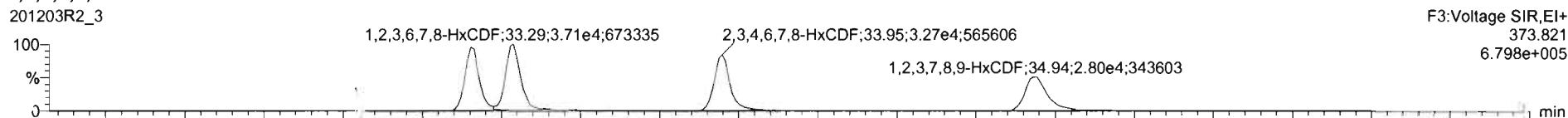


Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

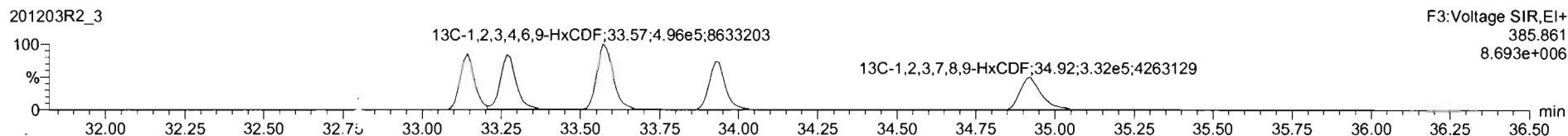
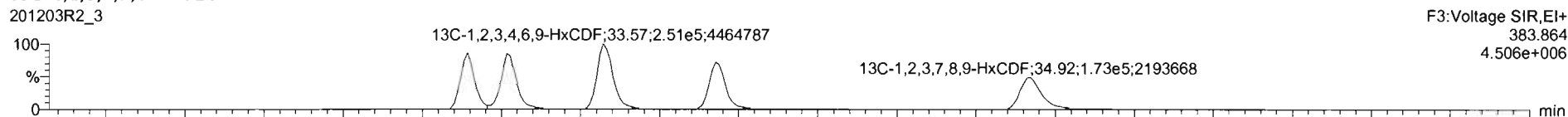
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_3, Date: 03-Dec-2020, Time: 12:14:40, ID: ST201203R2_3 1613 CS2 20K1903, Description: 1613 CS2 20K1903

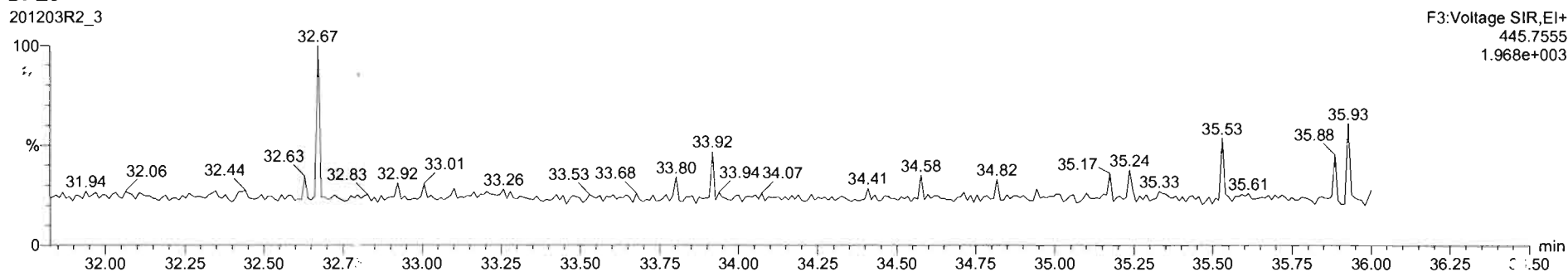
1,2,3,4,7,8-HxCDF



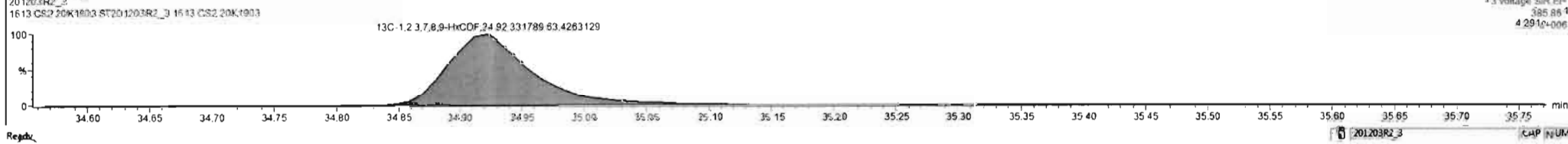
13C-1,2,3,4,7,8-HxCDF



DPE3



#	Name	Reso	IS Reso	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	1.58e4	8.06e5	0.77	0.78	NO	0.9905	26.01	25.99	NO	1.001	1.001	2.01	100	NO
2	1,2,3,7,8-PeCDD	5.55e4	5.88e5	0.63	0.62	NO	0.9320	30.74	30.74	NO	1.000	1.000	10.1	101	NO
3	1,2,3,4,7,8-HxCDD	4.12e4	4.06e5	1.24	1.22	NO	1.0203	34.04	34.05	NO	1.000	1.001	9.96	99.6	NO
4	1,2,3,6,7,8-HxCDD	4.48e4	4.87e5	1.24	1.32	NO	0.9025	34.16	34.17	NO	1.000	1.001	10.2	102	NO
5	1,2,3,7,8,9-HxCDD	4.69e4	4.87e5	1.24	1.23	NO	0.9552	34.43	34.44	NO	1.000	1.001	10.1	101	NO
6	1,2,3,4,7,8-HpCDD	3.39e4	3.72e5	1.04	1.06	NO	0.9180	37.90	37.92	NO	1.000	1.001	9.91	99.1	NO
7	OCDD	5.89e4	6.66e5	0.89	0.84	NO	0.8658	40.80	40.81	NO	1.000	1.000	20.4	102	NO
8	2,3,7,8-TCDF	1.90e4	1.17e6	0.77	0.75	NO	0.8480	25.29	25.30	NO	1.000	1.001	1.92	96.0	NO
9	1,2,3,7,8-PeCDF	8.91e4	9.03e5	1.55	1.63	NO	0.9597	29.47	29.48	NO	1.000	1.000	10.3	103	NO
10	1,2,3,4,7,8-PeCDF	9.54e4	8.55e5	1.55	1.63	NO	1.0671	30.53	30.55	NO	1.000	1.000	10.5	105	NO
11	1,2,3,4,7,8-HxCDF	6.08e4	5.80e5	1.24	1.26	NO	0.9859	33.14	33.15	NO	1.000	1.000	10.8	106	NO
12	1,2,3,6,7,8-HxCDF	6.64e4	6.28e5	1.24	1.27	NO	1.0368	33.27	33.29	NO	1.000	1.001	10.2	102	NO
13	1,2,3,4,6,7,8-HxCDF	5.87e4	5.85e5	1.24	1.26	NO	1.0202	33.93	33.95	NO	1.000	1.001	10.2	102	NO
14	1,2,3,7,8,9-HxCDF	5.03e4	5.05e5	1.24	1.25	NO	0.9889	34.92	34.94	NO	1.000	1.001	10.1	101	NO

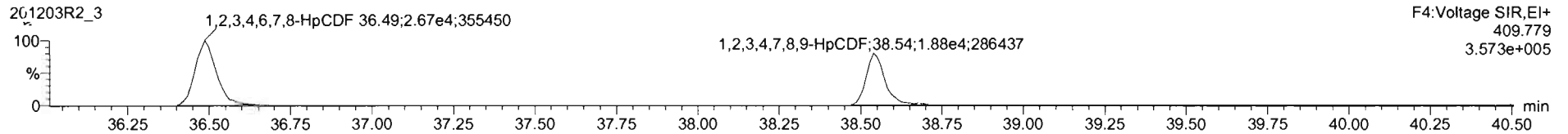
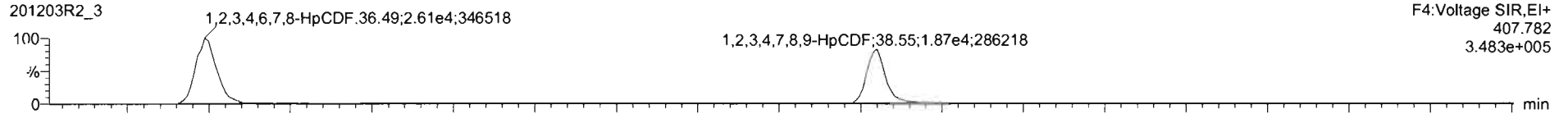


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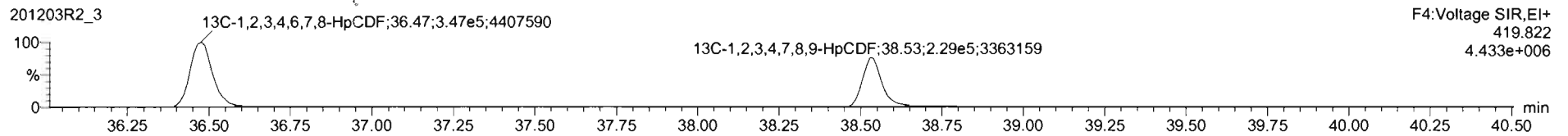
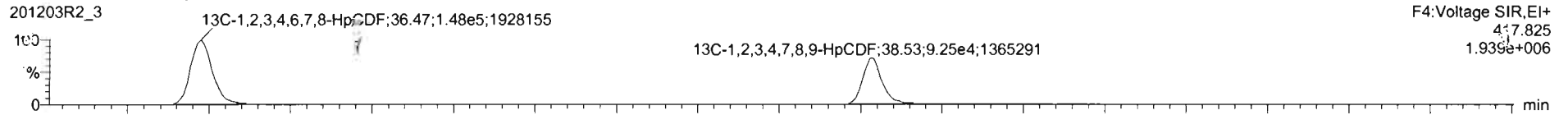
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Name: 201203R2_3, Date: 03-Dec-2020, Time: 12:14:40, ID: ST201203R2_3 1613 CS2 20K1903, Description: 1613 CS2 20K1903

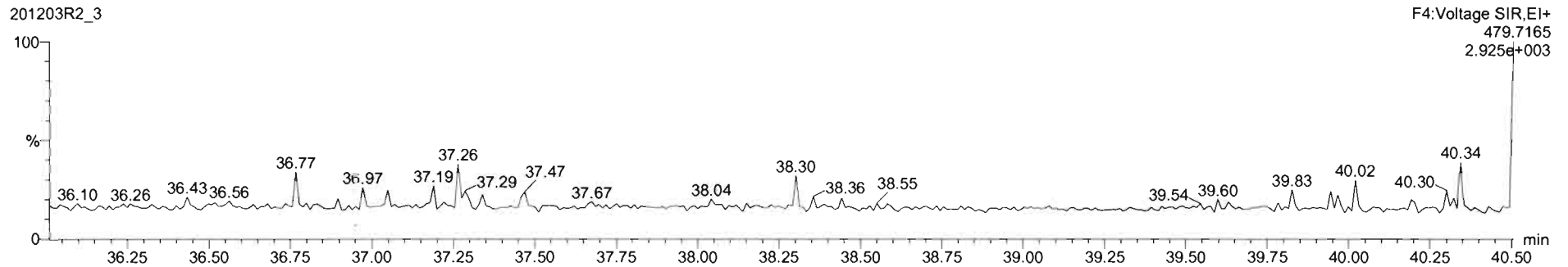
1,2,3,4,6,7,8-HpCDF



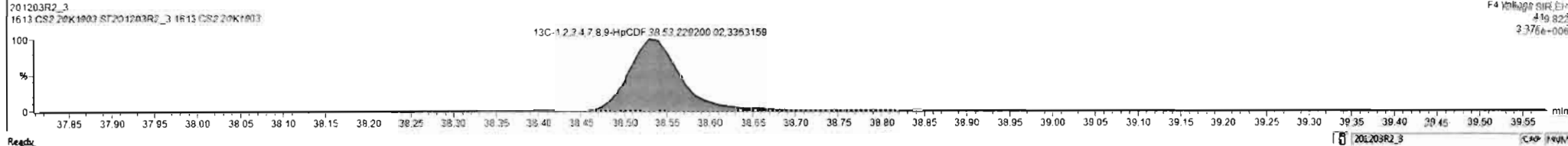
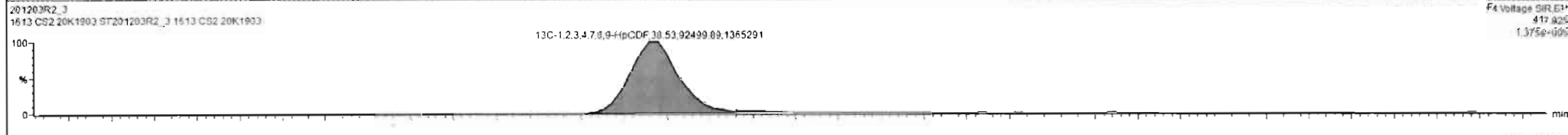
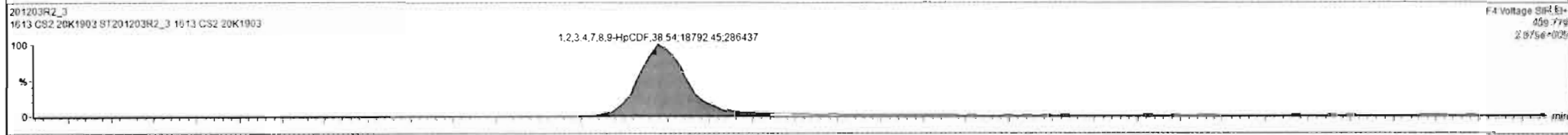
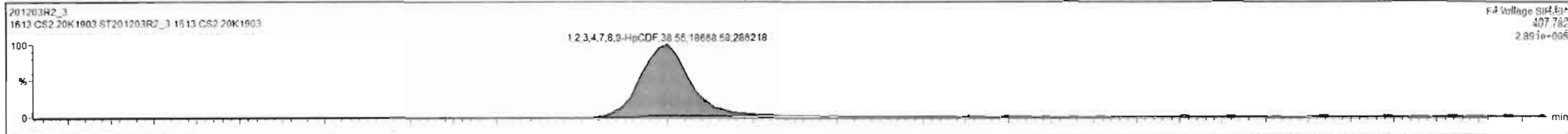
13C-1,2,3,4,6,7,8-HpCDF



DPE4



#	Name	Resp	IS Resp	Pred RA	RA	nly	RDF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
15	1,2,3,4,6,7,8-HpCDF	5.28e4	4.95e5	1.04	0.98	NO	1.0492	38.48	38.49	NO	1.000	1.000	10.2	102	NO
16	1,2,3,4,7,8,9-HpCDF	3.75e4	3.22e5	1.04	0.99	NO	1.1759	38.53	38.55	NO	1.000	1.001	9.90	99.0	NO
17	OCDF	8.64e4	7.40e5	0.89	0.86	NO	0.8960	41.09	41.10	NO	1.000	1.000	20.0	100	NO
18	13C-2,3,7,8-TCDD	8.00e5	8.35e5	0.77	0.77	NO	1.0555	25.95	25.98	NO	1.030	1.031	90.8	90.8	NO
19	13C-1,2,3,7,8-PeCDD	5.88e5	8.35e5	0.63	0.62	NO	0.7847	30.65	30.73	NO	1.216	1.219	89.8	89.8	NO
20	13C-1,2,3,4,7,8-HxCDD	4.09e5	7.47e5	1.24	1.27	NO	0.6205	34.04	34.03	NO	1.014	1.014	87.6	87.6	NO
21	13C-1,2,3,6,7,8-HxCDD	4.87e5	7.47e5	1.24	1.28	NO	0.7340	34.17	34.15	NO	1.019	1.017	88.8	88.8	NO
22	13C-1,2,3,7,8,9-HxCDD	4.87e5	7.47e5	1.24	1.26	NO	0.7225	34.42	34.42	NO	1.025	1.025	90.2	90.2	NO
23	13C-1,2,3,4,6,7,8-HpCDD	3.72e5	7.47e5	1.04	1.06	NO	0.5877	37.89	37.90	NO	1.129	1.129	87.6	87.6	NO
24	13C-OCDD	6.66e5	7.47e5	0.89	0.91	NO	0.4958	40.65	40.80	NO	1.217	1.215	180	90.0	NO
25	13C-2,3,7,8-TCDF	1.17e6	1.40e6	0.77	0.76	NO	0.9190	25.28	25.28	NO	1.003	1.003	90.7	90.7	NO
26	13C-1,2,3,7,8-PeCDF	9.03e5	1.40e6	1.55	1.61	NO	0.7151	29.39	29.46	NO	1.166	1.160	90.3	90.3	NO
27	13C-2,3,4,7,8-PeCDF	8.55e5	1.40e6	1.55	1.60	NO	0.8895	30.44	30.53	NO	1.208	1.212	88.8	88.8	NO
28	13C-1,2,3,4,7,8-HxCDF	5.80e5	7.47e5	0.51	0.50	NO	0.8734	33.13	33.14	NO	0.987	0.987	88.8	88.8	NO



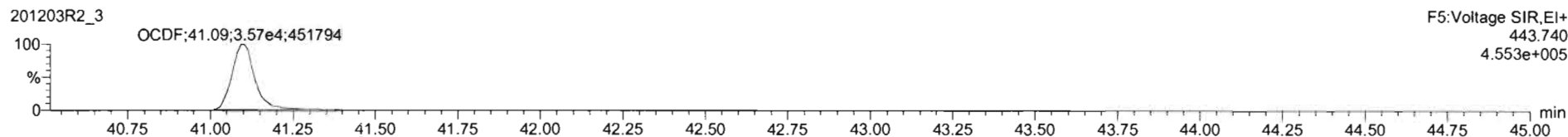
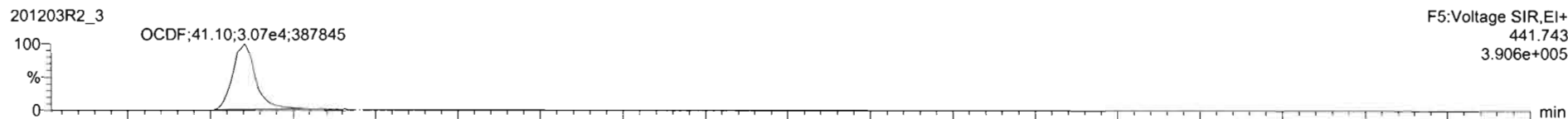
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Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time

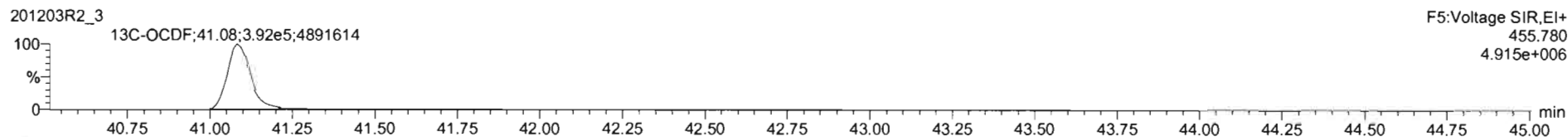
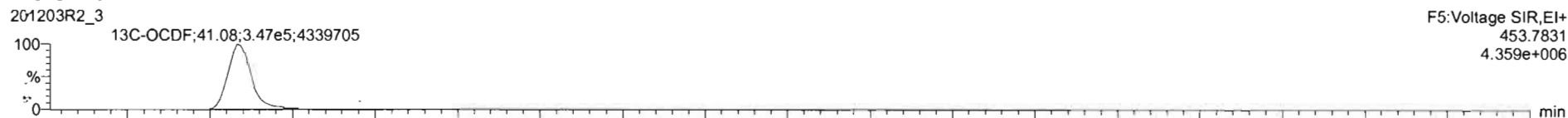
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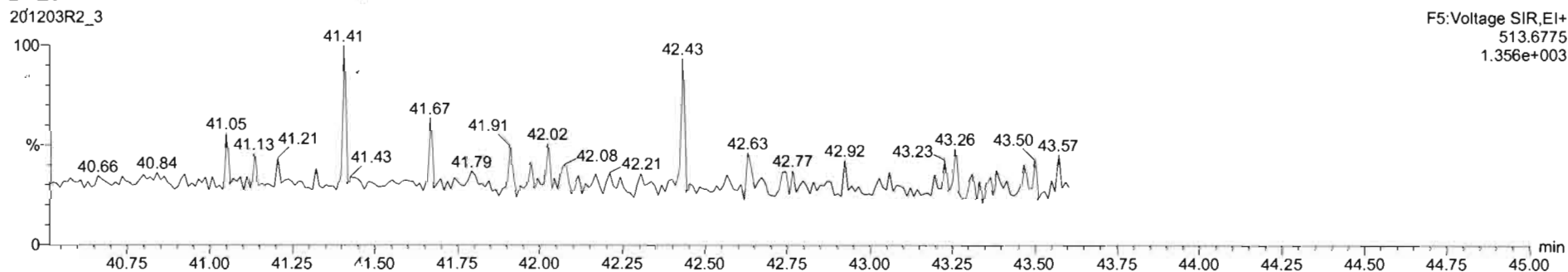
OCDF



13C-OCDF



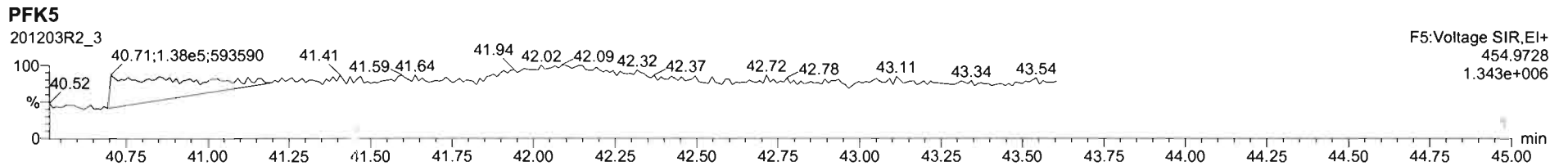
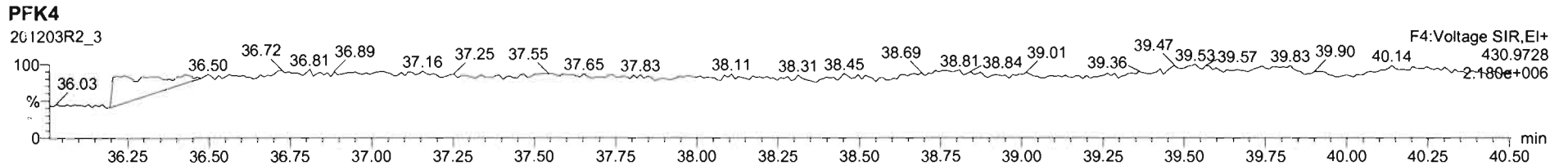
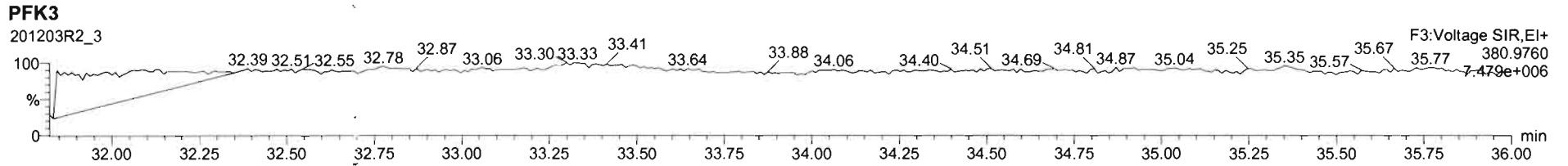
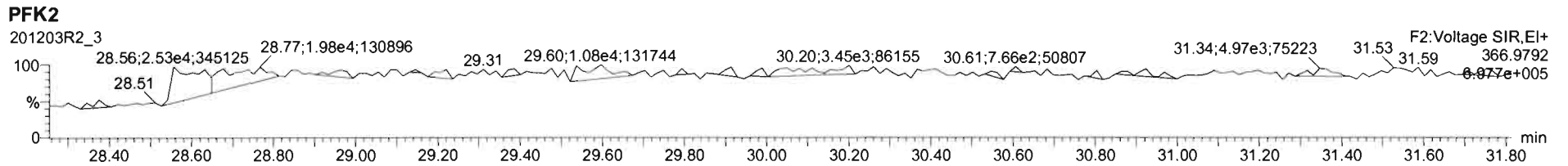
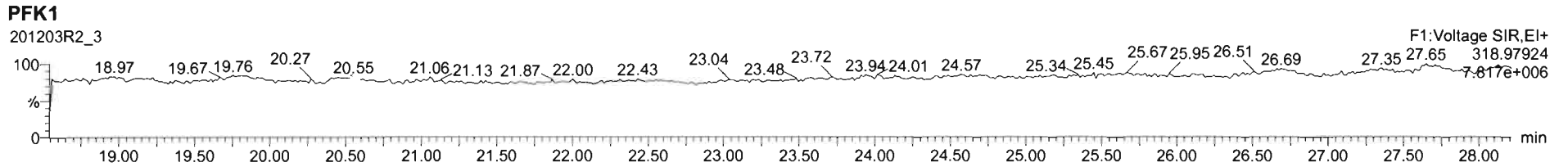
DPE5



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

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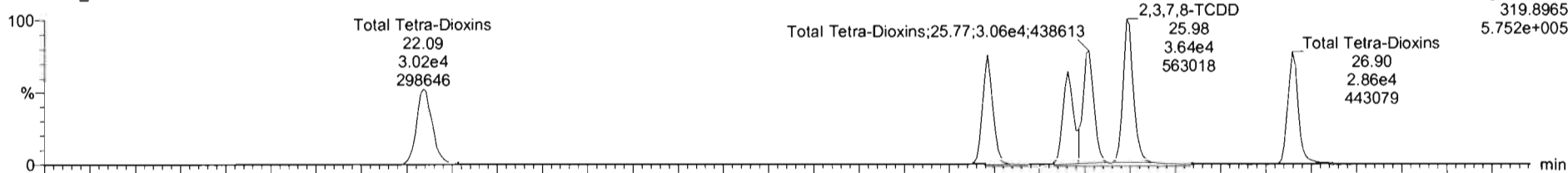
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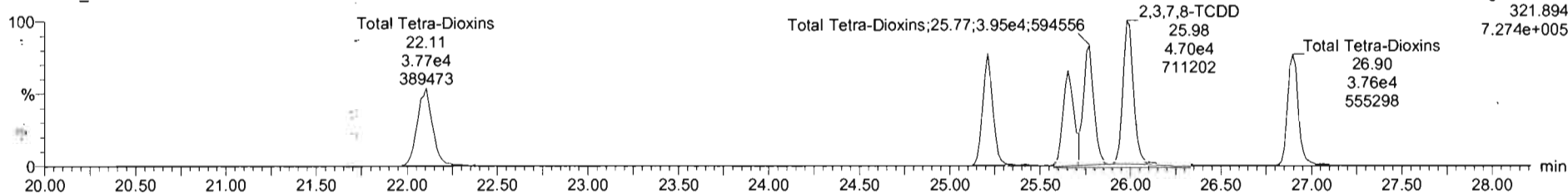
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2,3,7,8-TCDD

201203R2_6

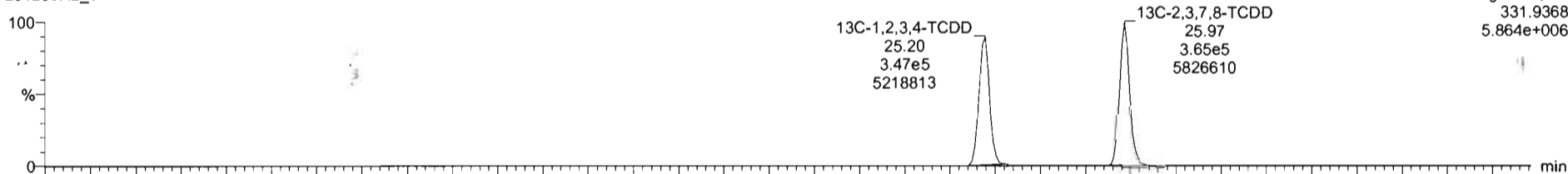


201203R2_6

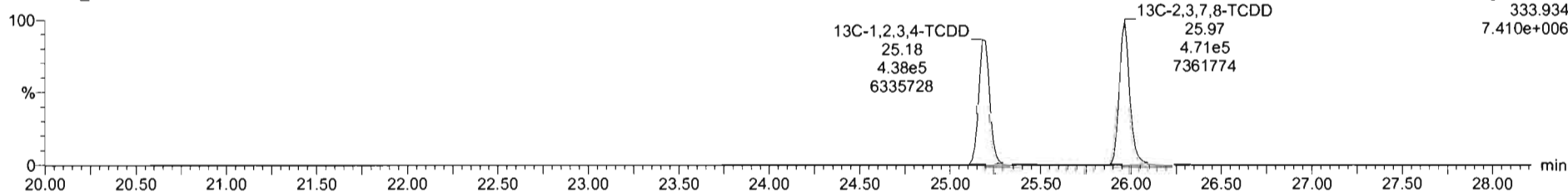


13C-2,3,7,8-TCDD

201203R2_6



201203R2_6



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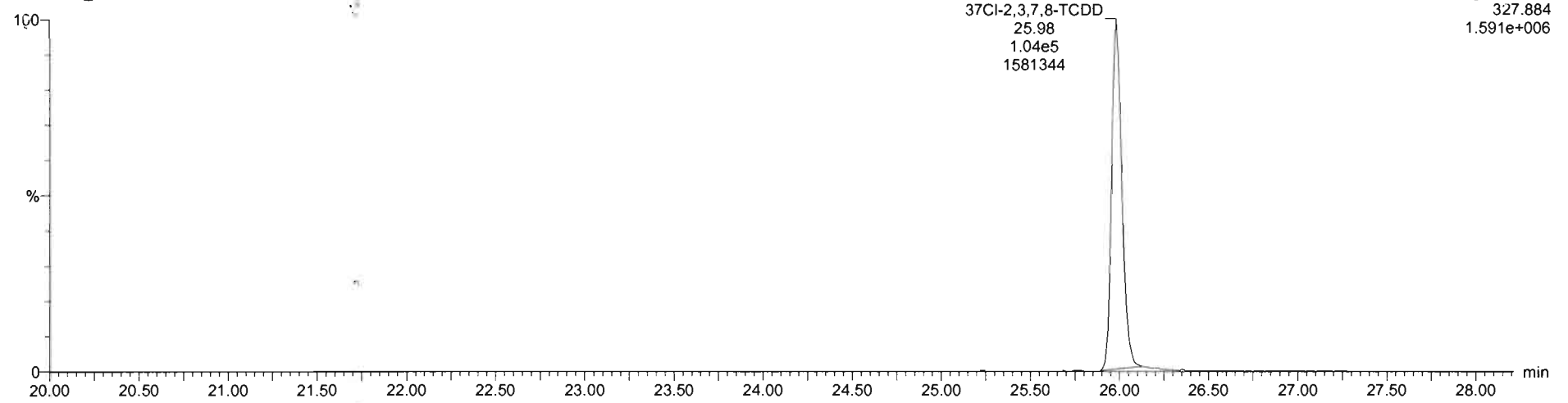
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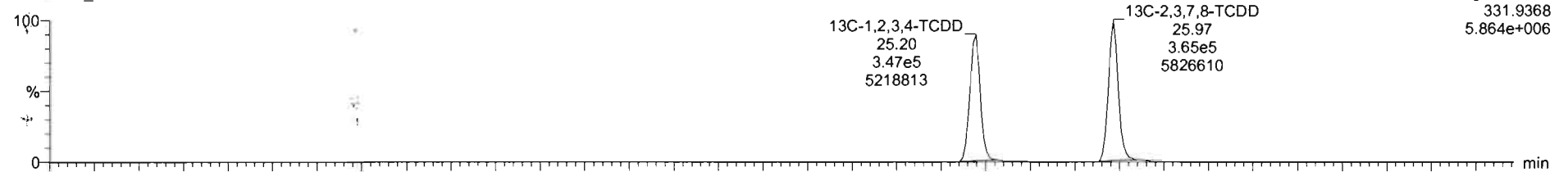
37Cl-2,3,7,8-TCDD

201203R2_6

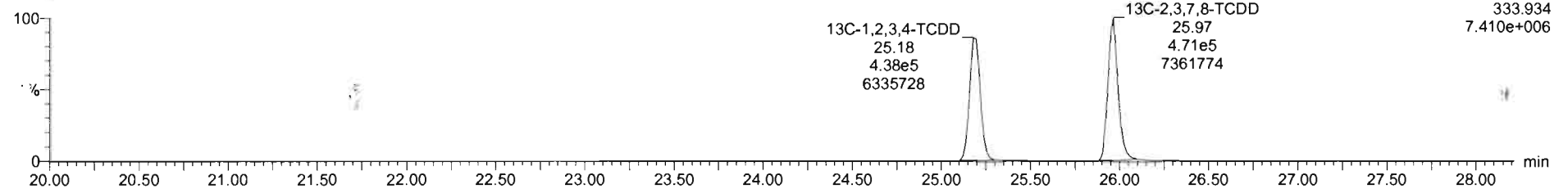


13C-1,2,3,4-TCDD

201203R2_6



201203R2_6



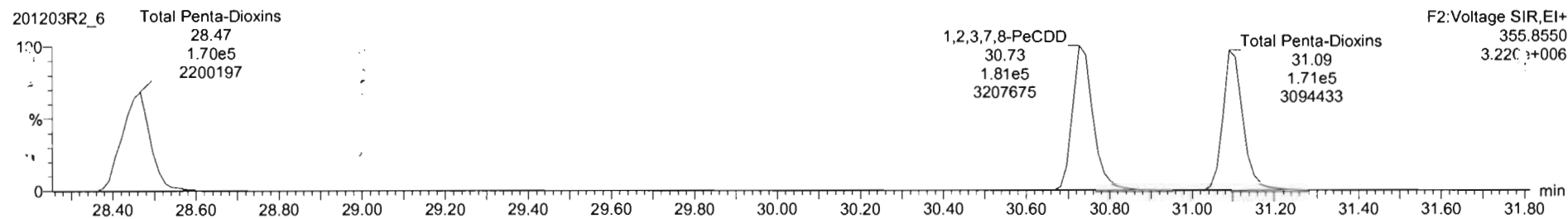
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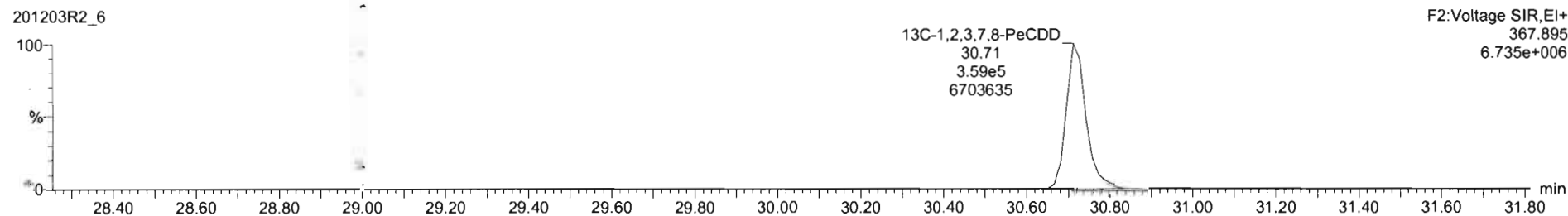
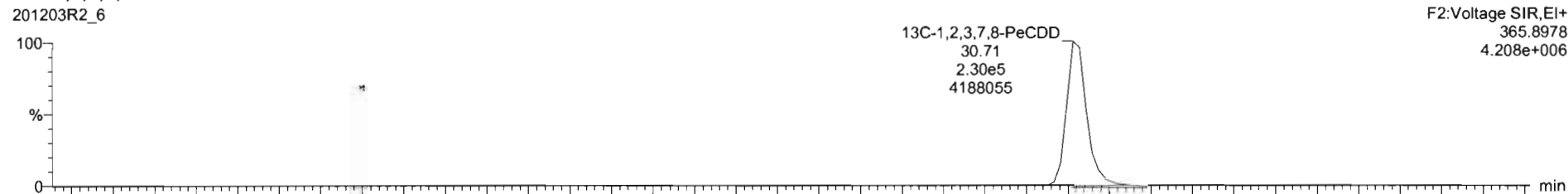
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1,2,3,7,8-PeCDD



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



Dataset: Untitled

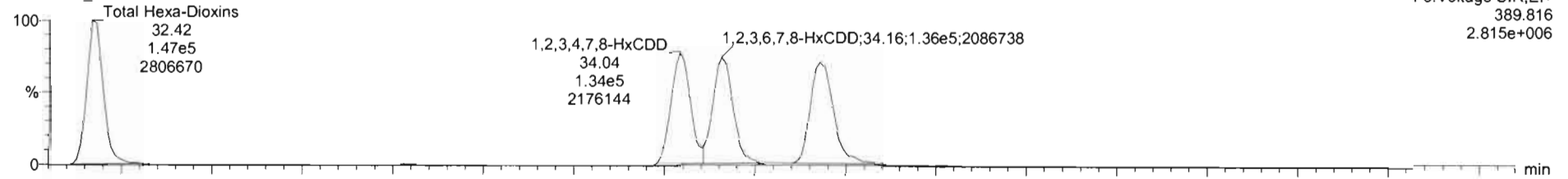
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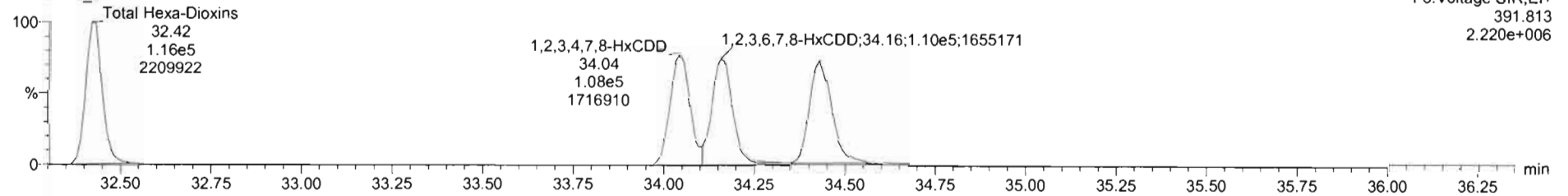
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1,2,3,4,7,8-HxCDD

201203R2_6

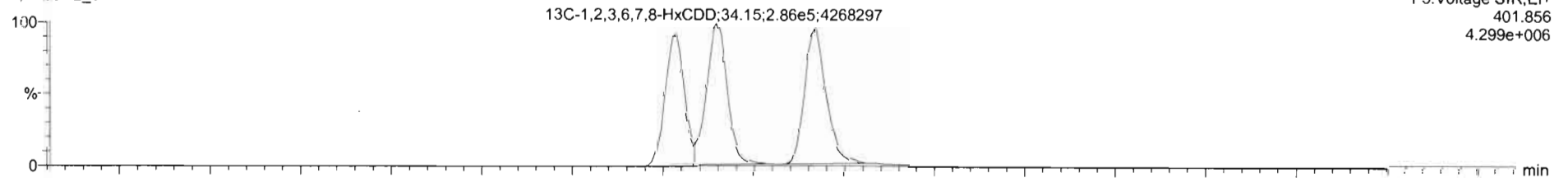


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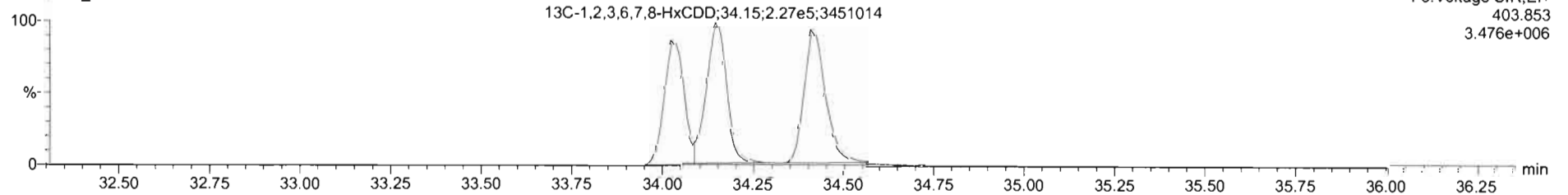


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201203R2_6

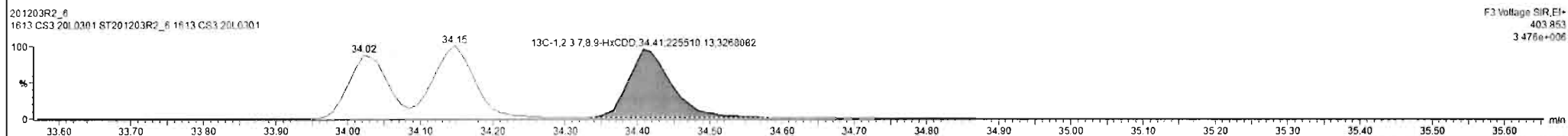
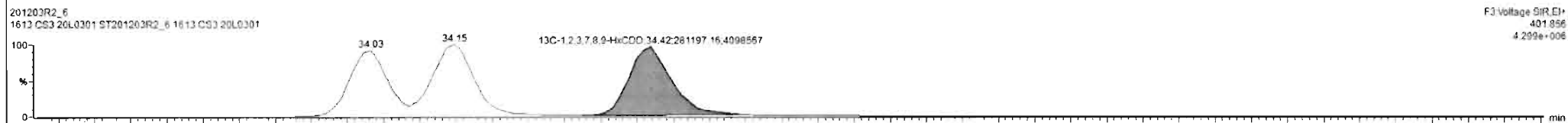
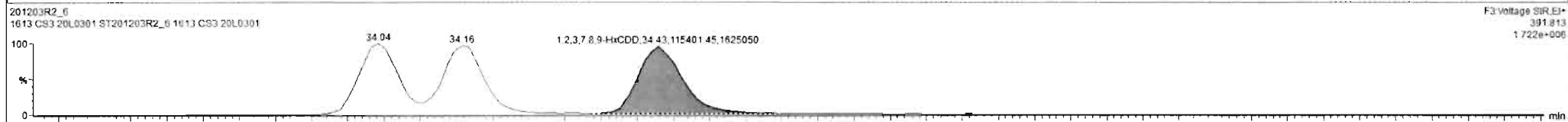
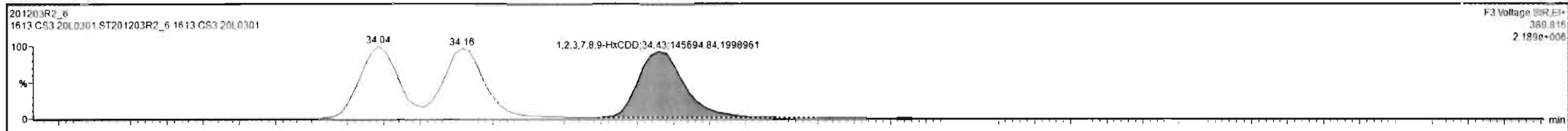


201203R2_6



201203R2_6 - ST201203R2_6 1613 CS3 20L0301 - 1613 CS3 20L0301

#	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	8.33e4	8.36e5	0.77	0.77	NO	0.9805	25.99	25.98	NO	1.001	1.001	10.2	102	NO
2	2 1,2,3,7,8-PeCDD	2.93e5	5.89e5	0.63	0.61	NO	0.9320	30.72	30.73	NO	1.000	1.000	53.4	107	NO
3	3 1,2,3,4,7,8-HxCDD	2.42e5	4.26e5	1.24	1.23	NO	1.0203	34.04	34.04	NO	1.000	1.000	55.8	112	NO
4	4 1,2,3,6,7,8-HxCDD	2.46e5	5.13e5	1.24	1.24	NO	0.9025	34.16	34.16	NO	1.000	1.000	53.0	106	NO
5	5 1,2,3,7,8,9-HxCDD	2.81e5	5.07e5	1.24	1.26	NO	0.9542	34.43	34.43	NO	1.000	1.000	54.0	108	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.90e5	3.92e5	1.04	1.02	NO	0.9180	37.89	37.91	NO	1.000	1.001	52.8	108	NO
7	7 OCDD	3.12e5	6.62e5	0.89	0.88	NO	0.8658	40.80	40.81	NO	1.000	1.000	109	109	NO
8	8 2,3,7,8-TCDF	1.10e5	1.21e6	0.77	0.75	NO	0.8480	25.28	25.30	NO	1.000	1.001	10.8	108	NO
9	9 1,2,3,7,8-PeCDF	4.70e5	9.04e5	1.55	1.61	NO	0.9597	29.47	29.46	NO	1.000	1.000	54.1	108	NO
10	10 2,3,4,7,8-PeCDF	5.09e5	8.75e5	1.55	1.56	NO	1.0671	30.52	30.53	NO	1.000	1.000	54.5	109	NO
11	11 1,2,3,4,7,8-HxCDF	3.29e5	8.08e5	1.24	1.23	NO	0.9859	33.13	33.15	NO	1.000	1.001	54.8	110	NO
12	12 1,2,3,6,7,8-HxCDF	3.68e5	6.44e5	1.24	1.24	NO	1.0380	33.26	33.28	NO	1.000	1.001	54.9	110	NO
13	13 2,3,4,6,7,8-HxCDF	3.27e5	5.97e5	1.24	1.25	NO	1.0202	33.92	33.94	NO	1.000	1.001	53.8	108	NO
14	14 1,2,3,7,8,9-HxCDF	2.95e5	5.53e5	1.24	1.25	NO	0.9909	34.91	34.92	NO	1.000	1.000	53.9	108	NO



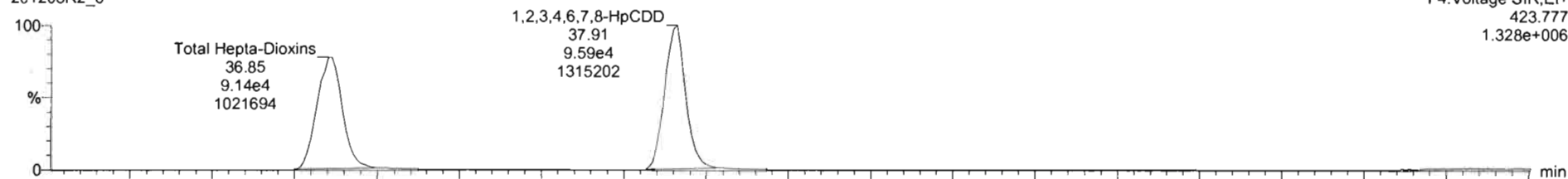
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

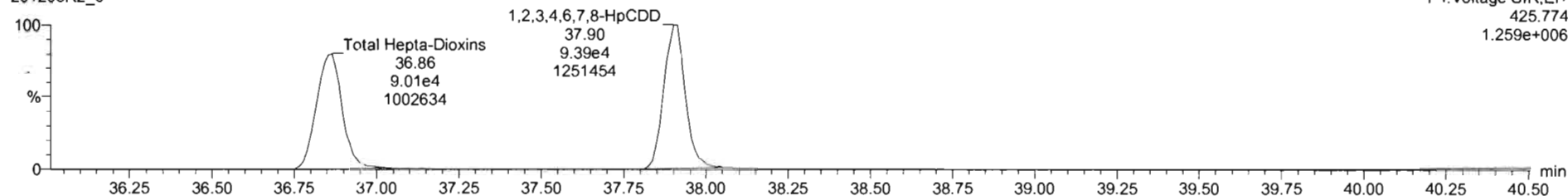
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1,2,3,4,6,7,8-HpCDD

2C1203R2_6

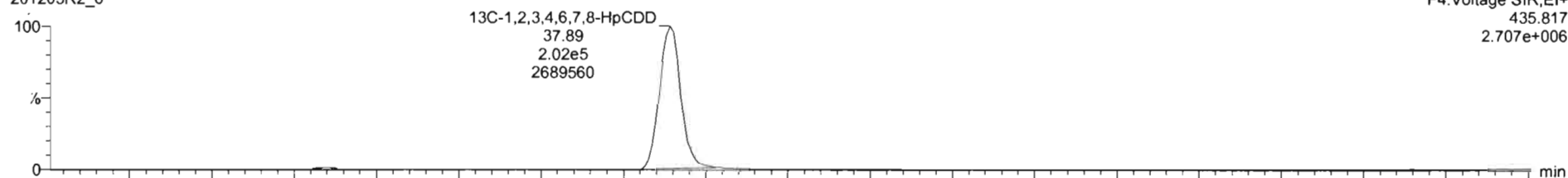


201203R2_6

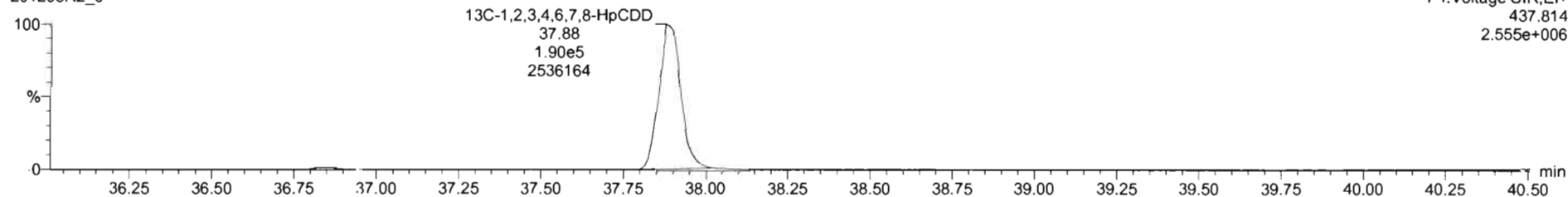


13C-1,2,3,4,6,7,8-HpCDD

201203R2_6



201203R2_6



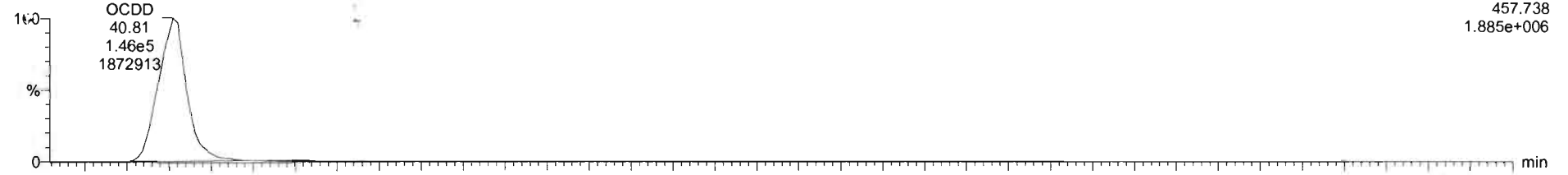
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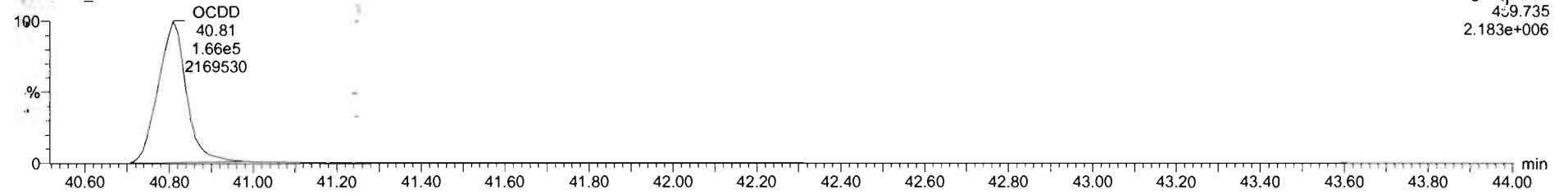
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OCDD

201203R2_6

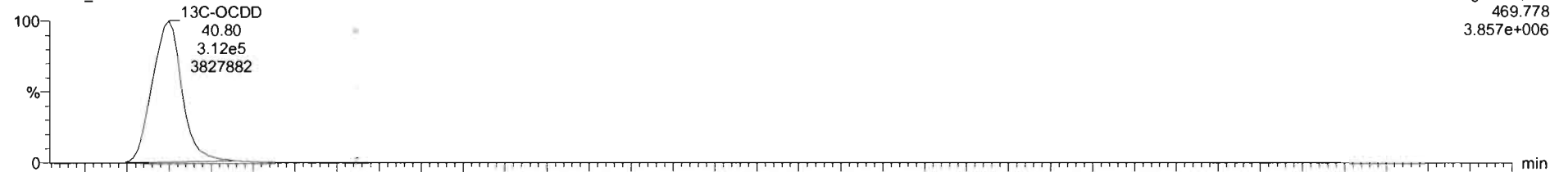


201203R2_6

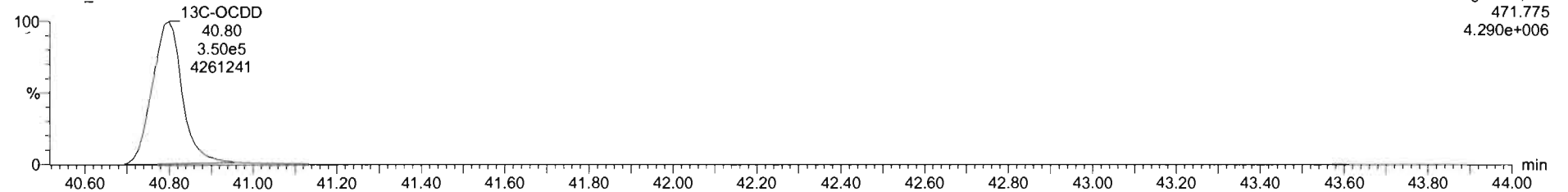


13C-OCDD

201203R2_6



201203R2_6



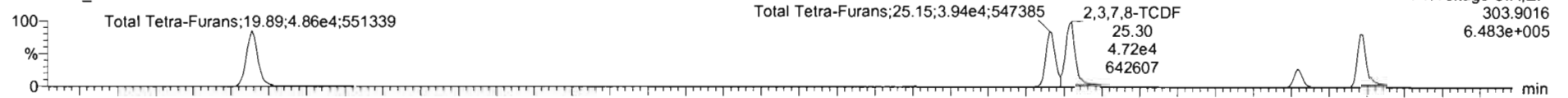
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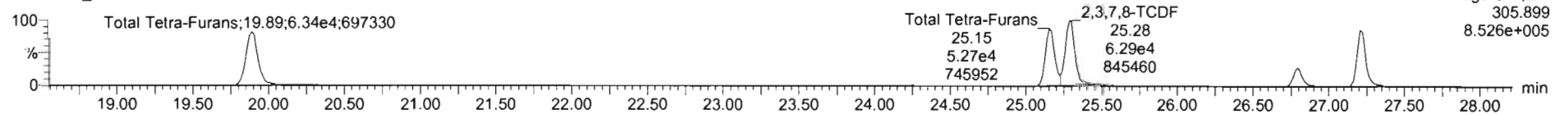
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2,3,7,8-TCDF

201203R2_6

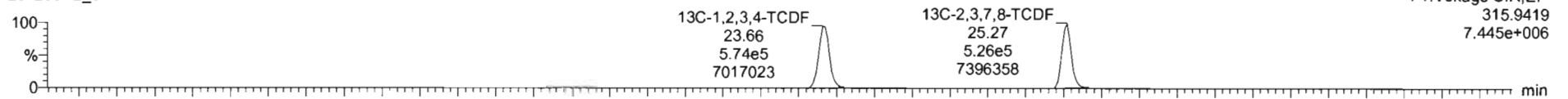


201203R2_6

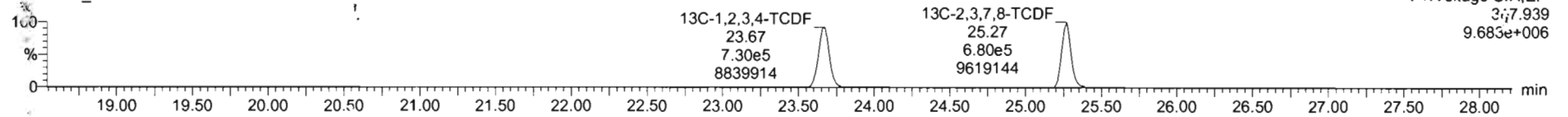


13C-2,3,7,8-TCDF

201203R2_6

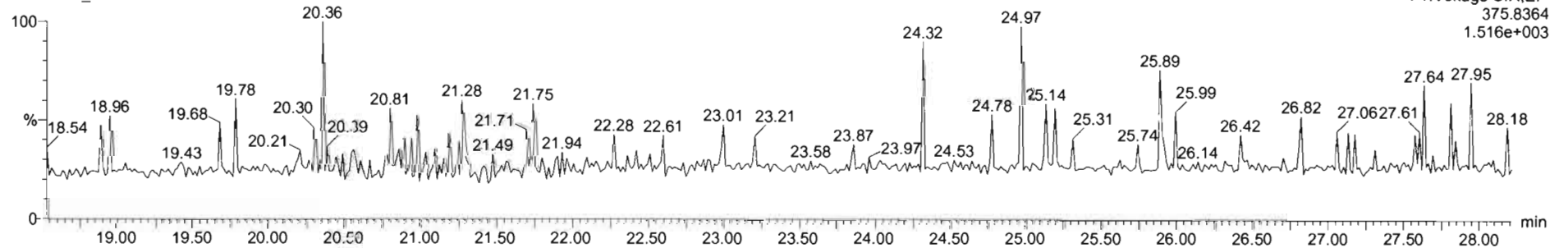


201203R2_6



DPE1

201203R2_6



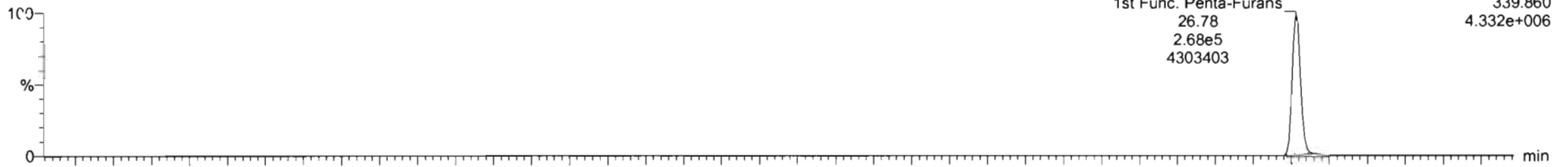
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

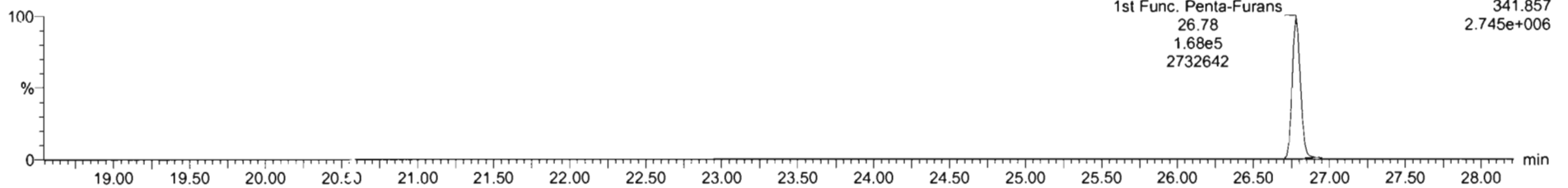
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201203R2_6

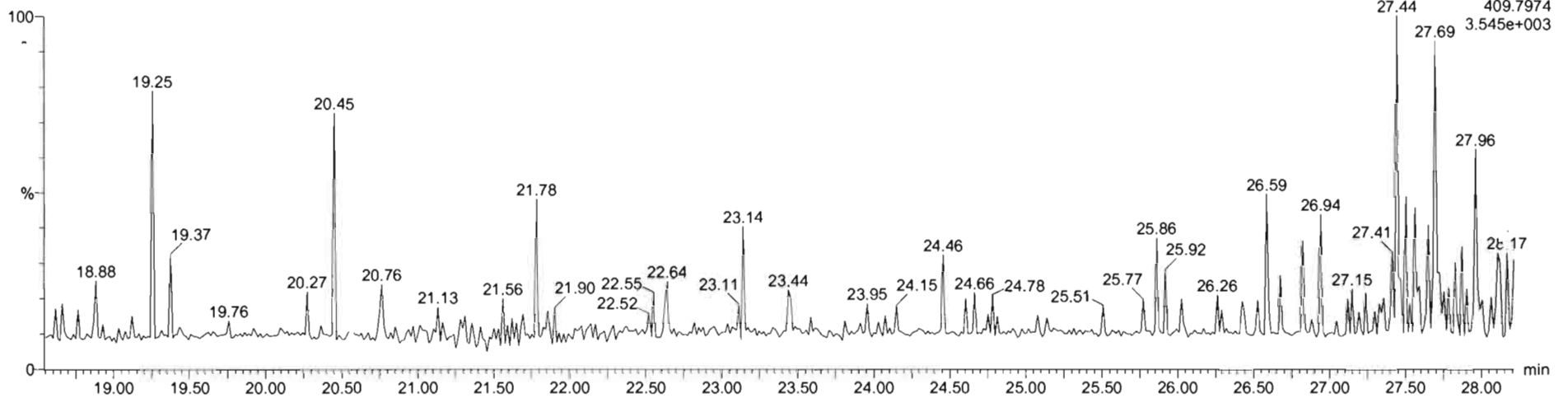


201203R2_6



DPE6

201203R2_6

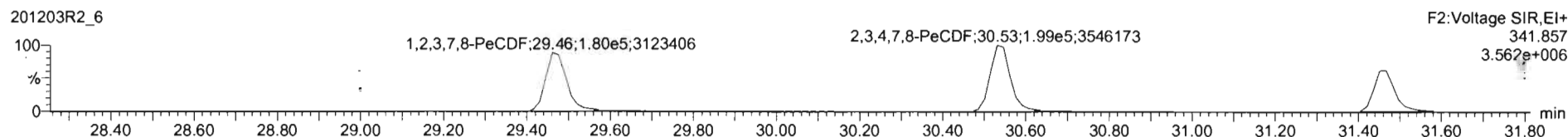
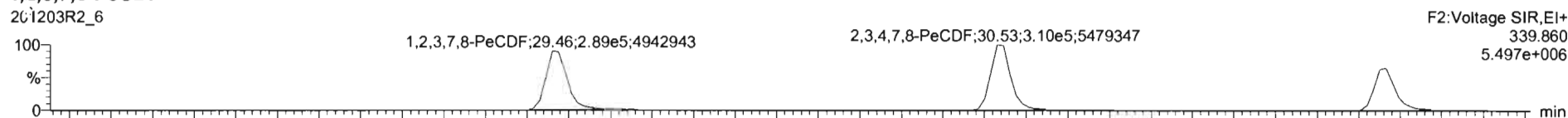


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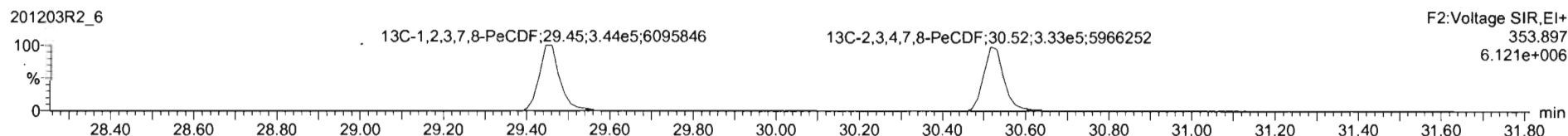
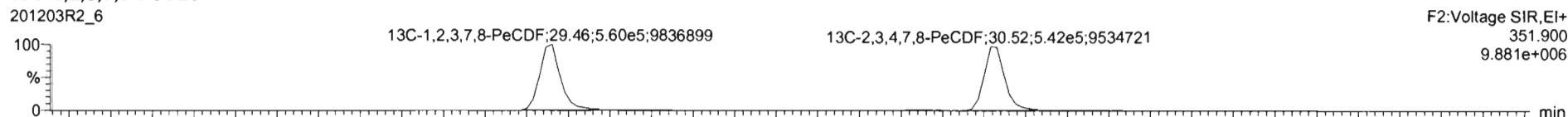
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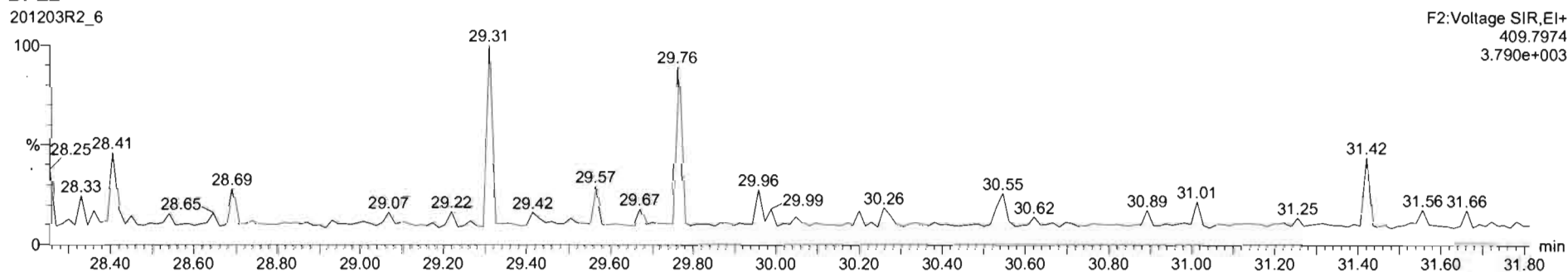
1,2,3,7,8-PeCDF



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



DPE2

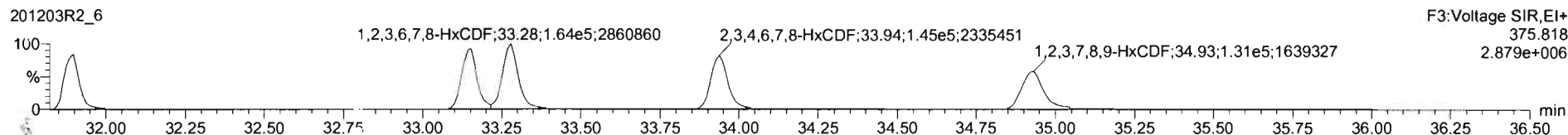
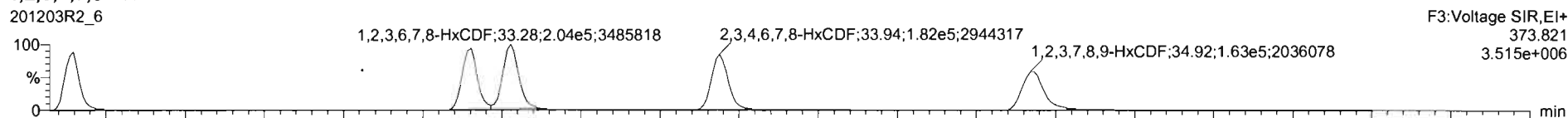


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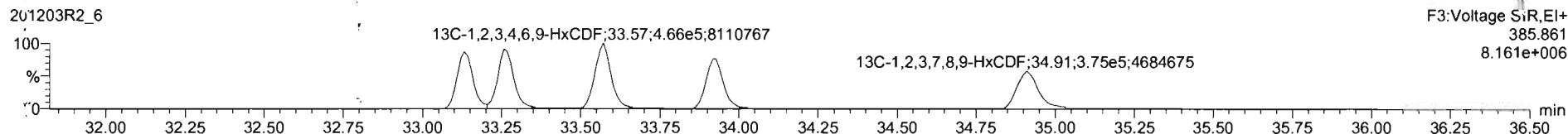
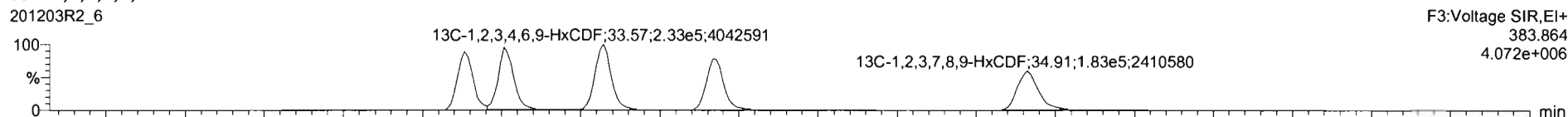
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_6, Date: 03-Dec-2020, Time: 14:35:05, ID: ST201203R2_6 1613 CS3 20L0301, Description: 1613 CS3 20L0301

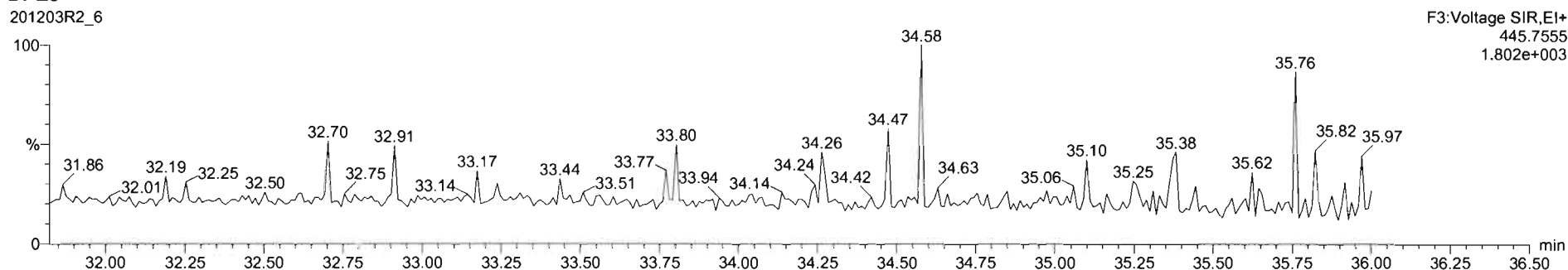
1,2,3,4,7,8-HxCDF



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

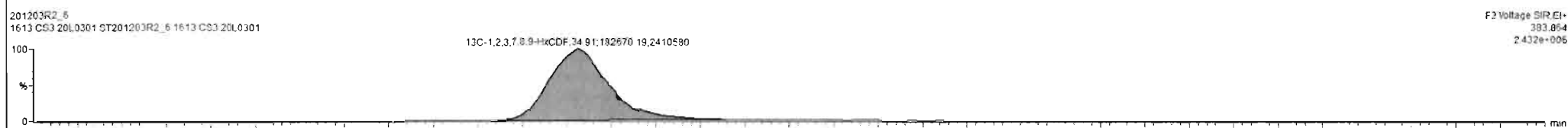
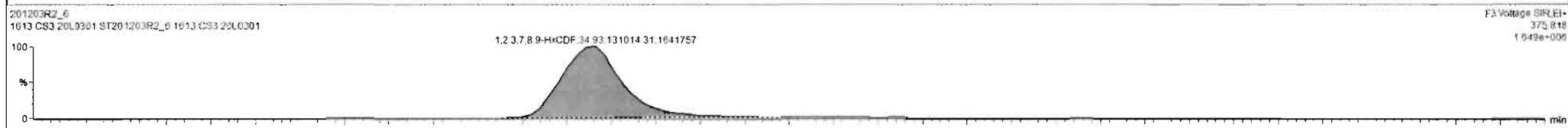
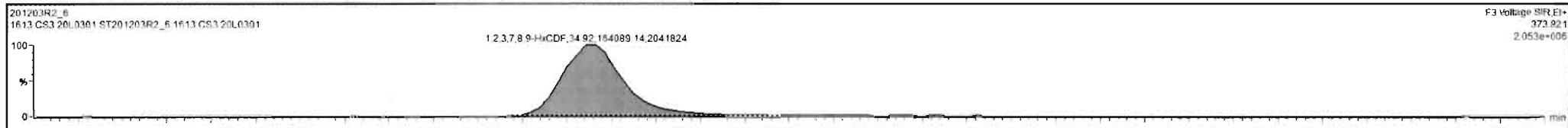


DPE3



201203R2_6 - ST201203R2_6 1613 CS3 20L0301 - 1613 CS3 20L0301

#	Name	Resp	IS Resp	Pred RA	RA	ivy	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conn	%Rec	STD out
1	1,2,3,7,8-TCDD	8.33e4	8.36e5	0.77	0.77	NO	0.9805	25.99	25.98	NO	1.001	1.001	10.2	102	NO
2	1,2,3,7,8-PeCDD	2.93e5	5.89e5	0.63	0.61	NO	0.9320	30.72	30.73	NO	1.000	1.000	53.4	107	NO
3	1,2,3,4,7,8-HxCDD	2.42e5	4.26e5	1.24	1.23	NO	1.0203	34.04	34.04	NO	1.000	1.000	55.5	112	NO
4	1,2,3,6,7,8-HxCDD	2.46e5	5.13e5	1.24	1.24	NO	0.9025	34.16	34.16	NO	1.000	1.000	53.0	106	NO
5	1,2,3,7,8,9-HxCDD	2.61e5	5.07e5	1.24	1.26	NO	0.9542	34.43	34.43	NO	1.000	1.000	54.0	108	NO
6	1,2,3,4,6,7,8-HpCDD	1.90e5	3.92e5	1.04	1.02	NO	0.9180	37.89	37.91	NO	1.000	1.001	52.5	106	NO
7	OCDD	3.12e5	6.62e5	0.89	0.88	NO	0.8658	40.80	40.81	NO	1.000	1.000	109	109	NO
8	2,3,7,8-TCDF	1.10e5	1.21e6	0.77	0.75	NO	0.8480	25.28	25.30	NO	1.000	1.001	10.5	108	NO
9	1,2,3,7,8-PeCDF	4.70e5	9.04e5	1.55	1.61	NO	0.9597	29.47	29.46	NO	1.000	1.000	54.1	108	NO
10	2,3,7,8-PeCDF	5.09e5	8.75e5	1.55	1.56	NO	1.0971	30.52	30.53	NO	1.000	1.000	54.5	109	NO
11	1,2,3,4,7,8-HxCDF	3.29e5	6.08e5	1.24	1.23	NO	0.9959	33.13	33.15	NO	1.000	1.001	54.8	110	NO
12	1,2,3,6,7,8-HxCDF	3.68e5	6.44e5	1.24	1.24	NO	1.0388	33.26	33.28	NO	1.000	1.001	54.9	110	NO
13	2,3,4,6,7,8-HxCDF	3.27e5	5.97e5	1.24	1.25	NO	1.0202	33.92	33.94	NO	1.000	1.001	53.8	108	NO
14	1,2,3,7,8,9-HxCDF	2.95e5	5.53e5	1.24	1.25	NO	0.9909	34.91	34.92	NO	1.000	1.000	53.9	108	NO

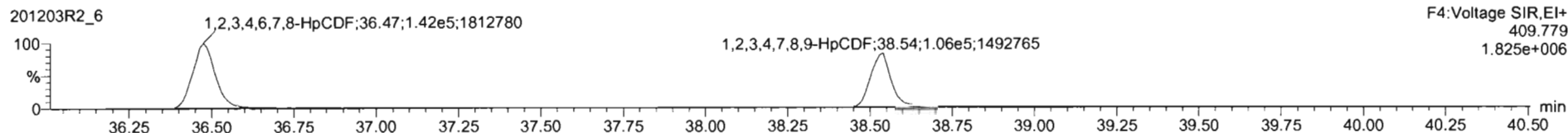
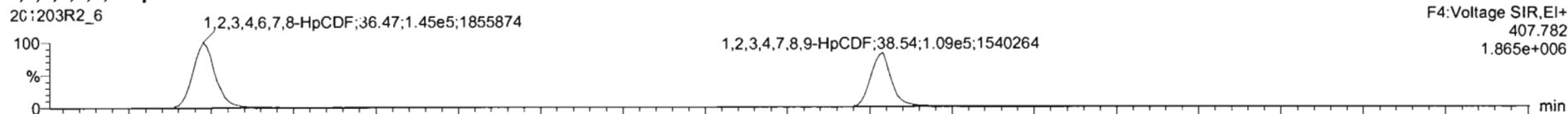


Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

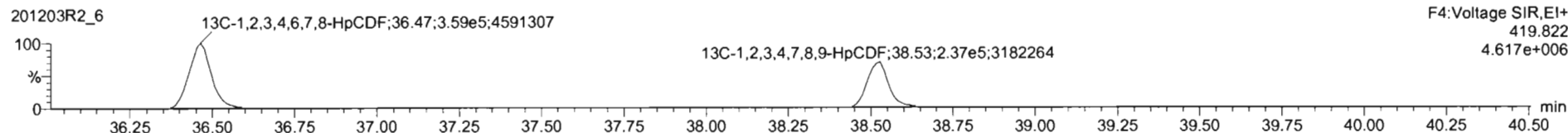
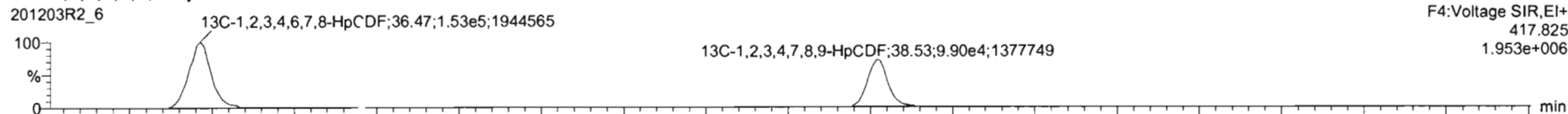
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_6, Date: 03-Dec-2020, Time: 14:35:05, ID: ST201203R2_6 1613 CS3 20L0301, Description: 1613 CS3 20L0301

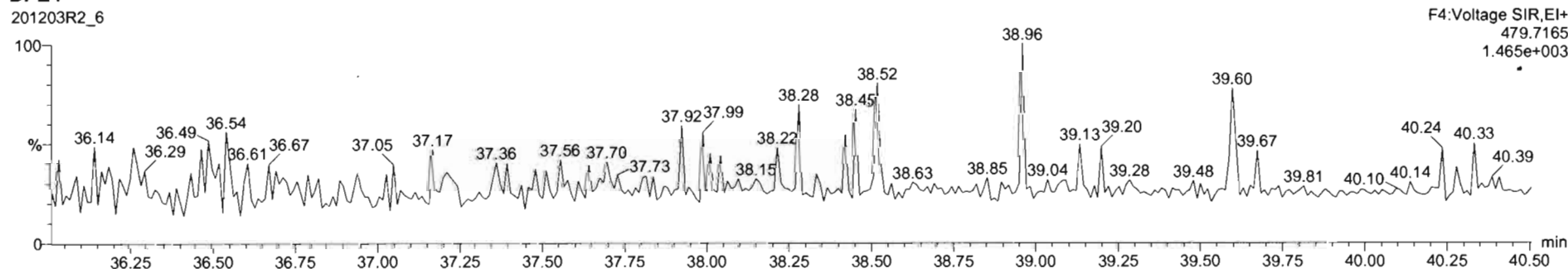
1,2,3,4,6,7,8-HpCDF



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



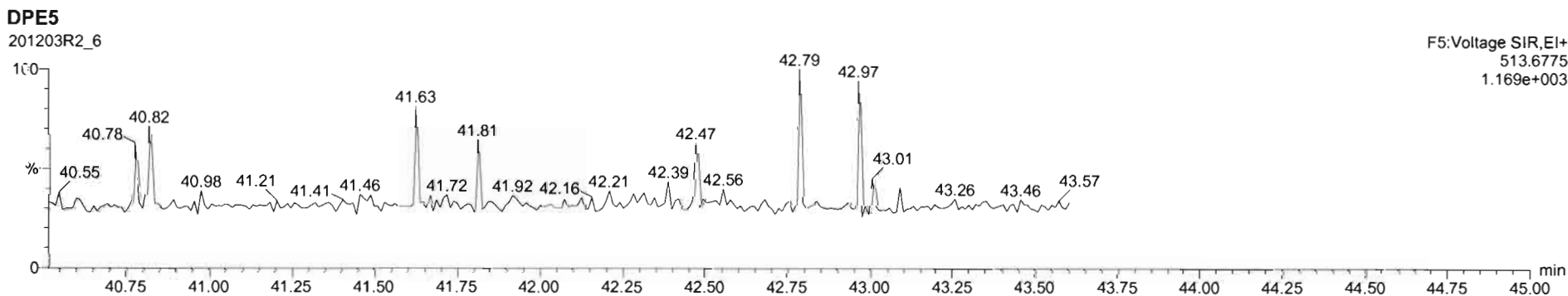
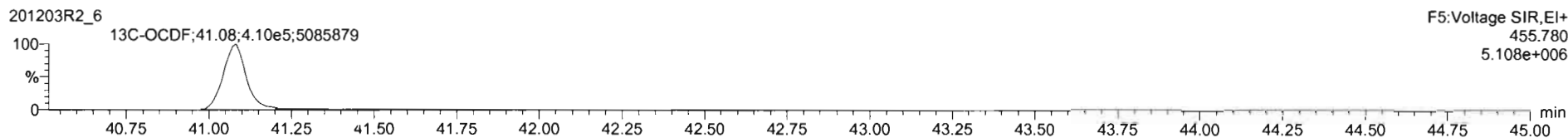
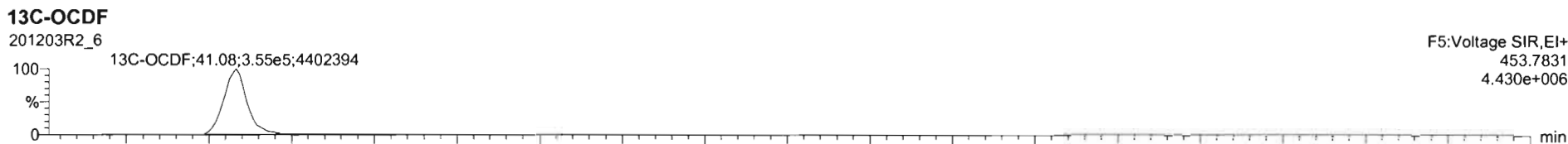
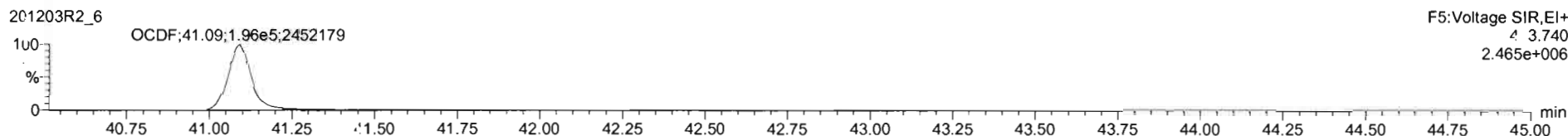
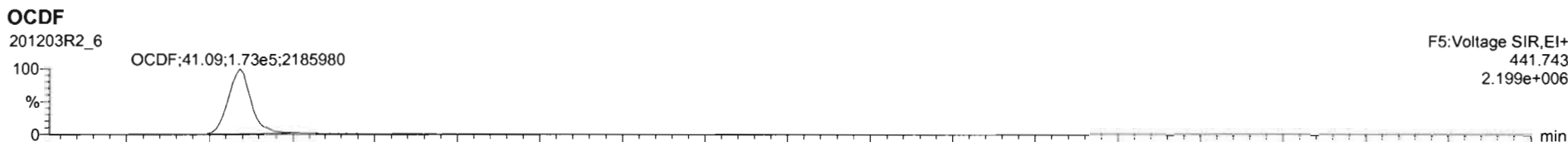
DPE4



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_6, Date: 03-Dec-2020, Time: 14:35:05, ID: ST201203R2_6 1613 CS3 20L0301, Description: 1613 CS3 20L0301



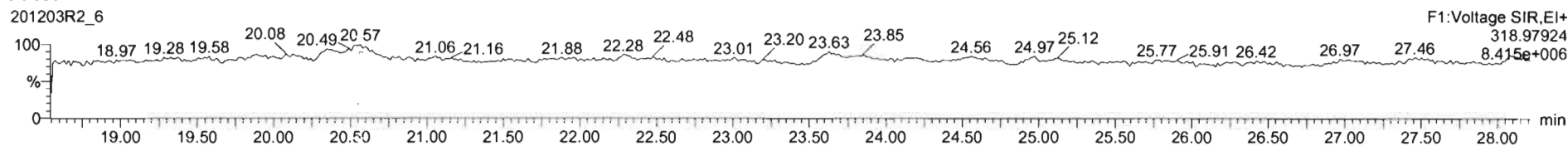
Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time

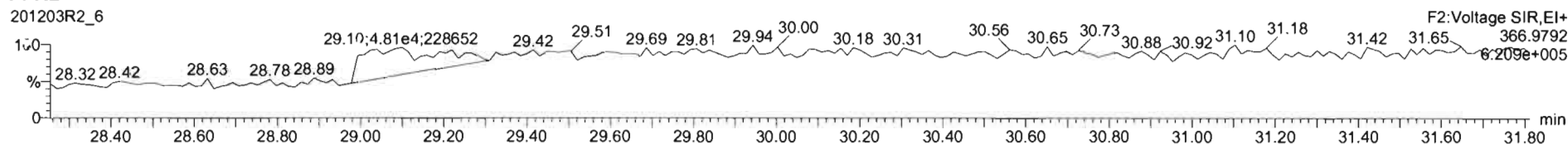
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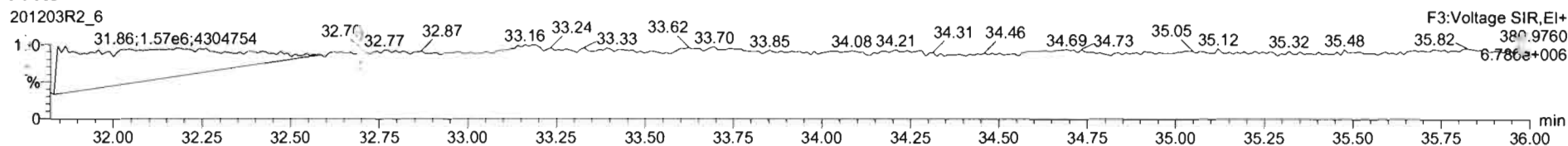
PFK1



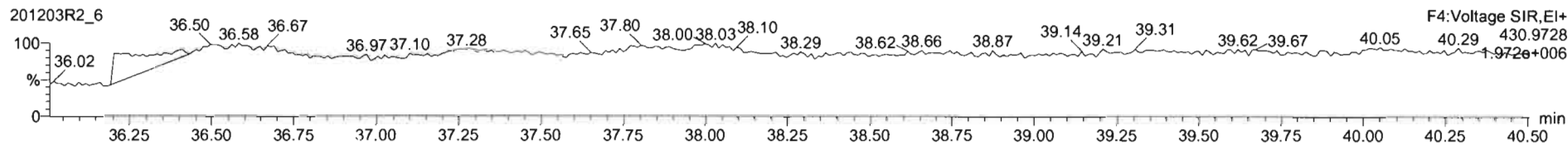
PFK2



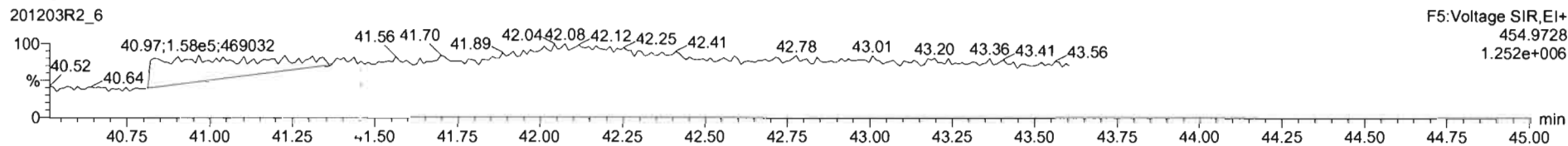
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

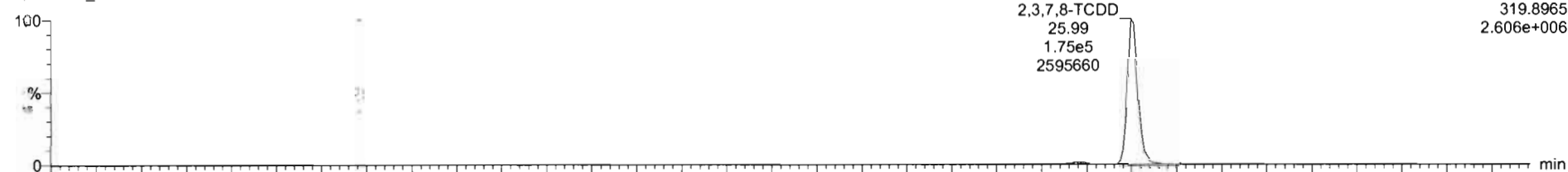
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

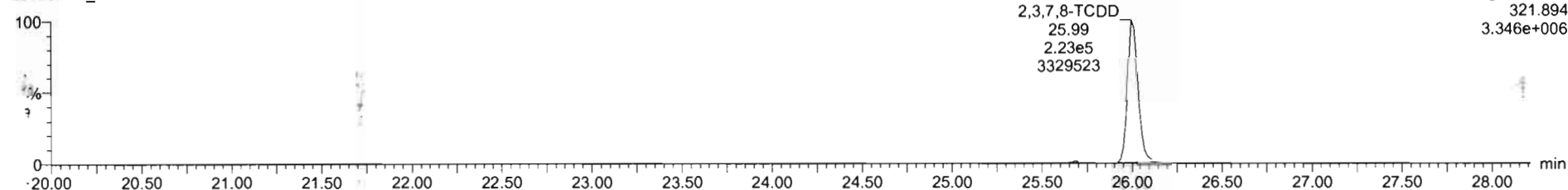
Name: 201203R2_4, Date: 03-Dec-2020, Time: 13:00:37, ID: ST201203R2_4 1613 CS4 20L0302, Description: 1613 CS4 20L0302

2,3,7,8-TCDD

201203R2_4

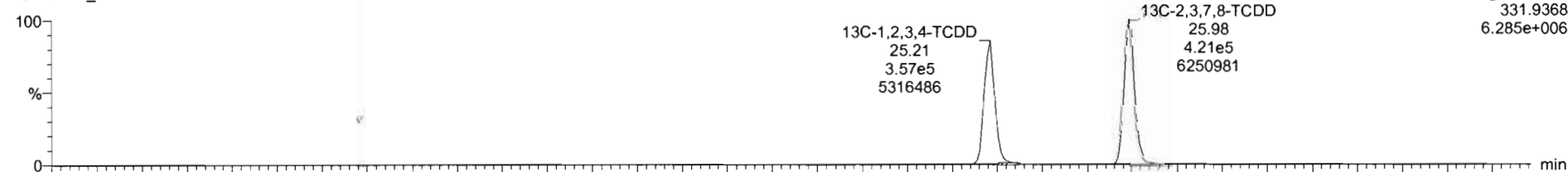


201203R2_4

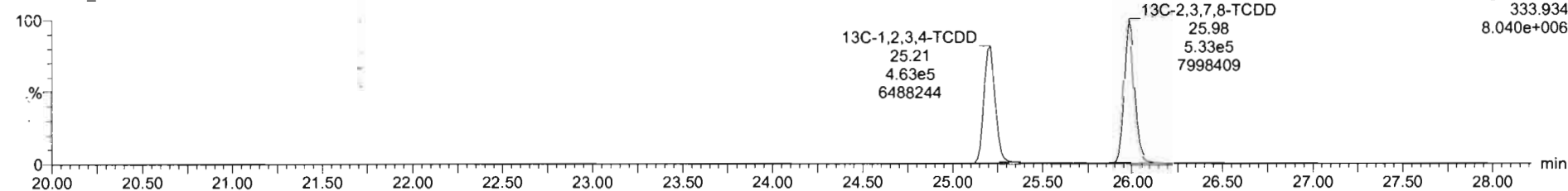


13C-2,3,7,8-TCDD

201203R2_4



201203R2_4



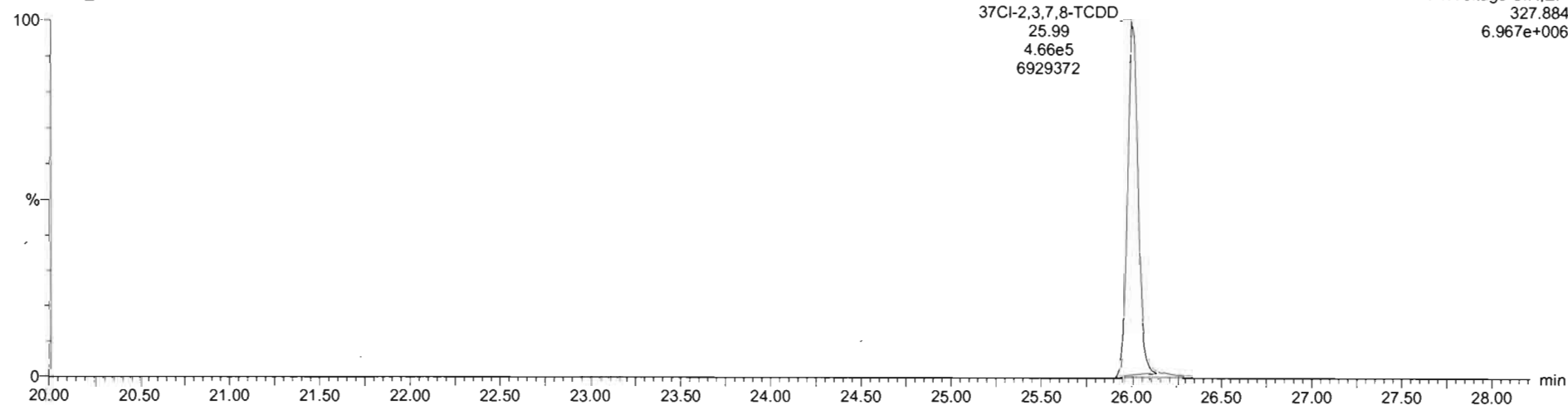
Dataset: U:\VG12.PRO\Results\01203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_4, Date: 03-Dec-2020, Time: 13:00:37, ID: ST201203R2_4 1613 CS4 20L0302, Description: 1613 CS4 20L0302

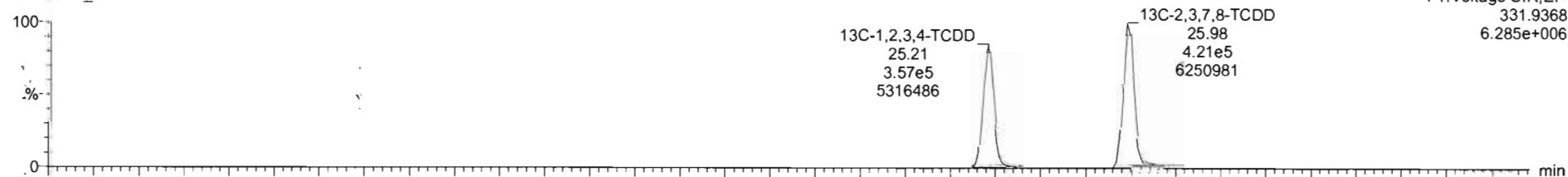
37Cl-2,3,7,8-TCDD

201203R2_4

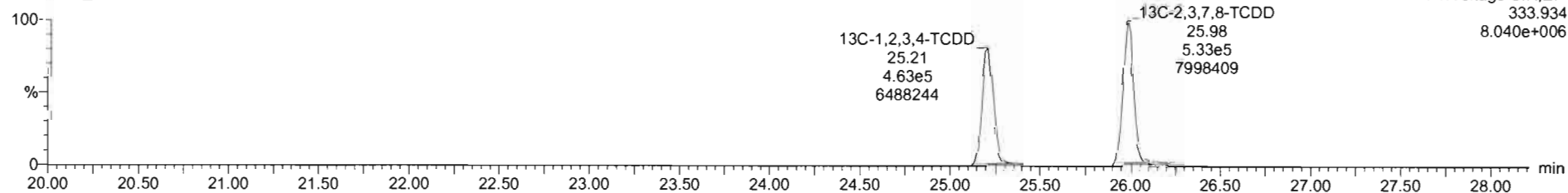


13C-1,2,3,4-TCDD

201203R2_4



201203R2_4



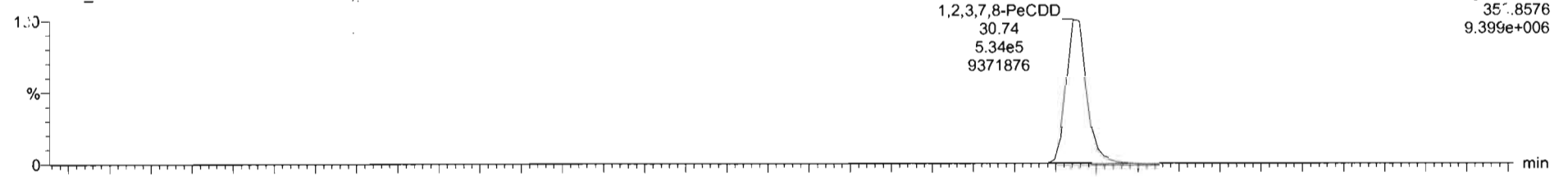
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Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

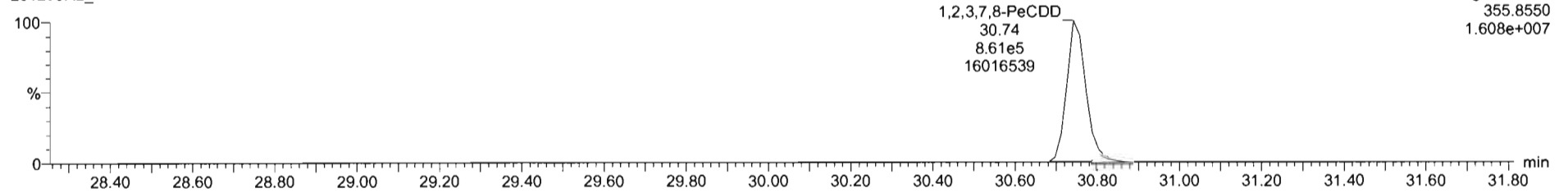
Name: 201203R2_4, Date: 03-Dec-2020, Time: 13:00:37, ID: ST201203R2_4 1613 CS4 20L0302, Description: 1613 CS4 20L0302

1,2,3,7,8-PeCDD

201203R2_4

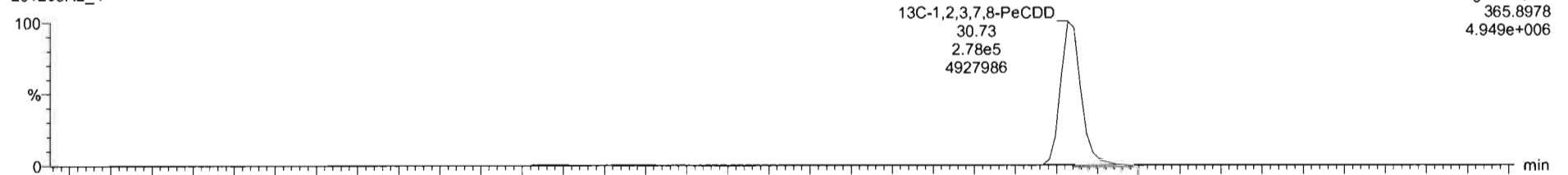


201203R2_4

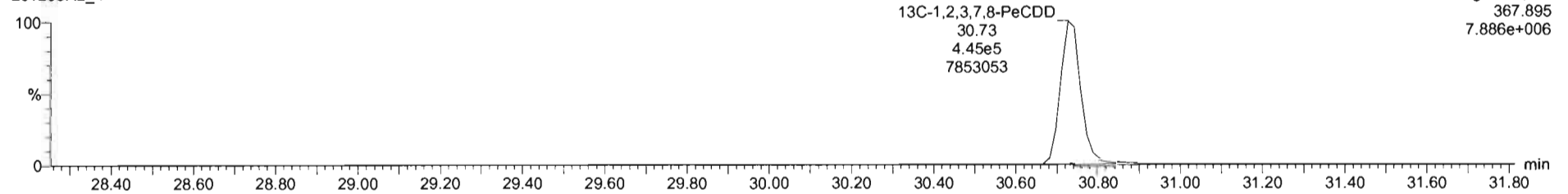


13C-1,2,3,7,8-PeCDD

201203R2_4



201203R2_4



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

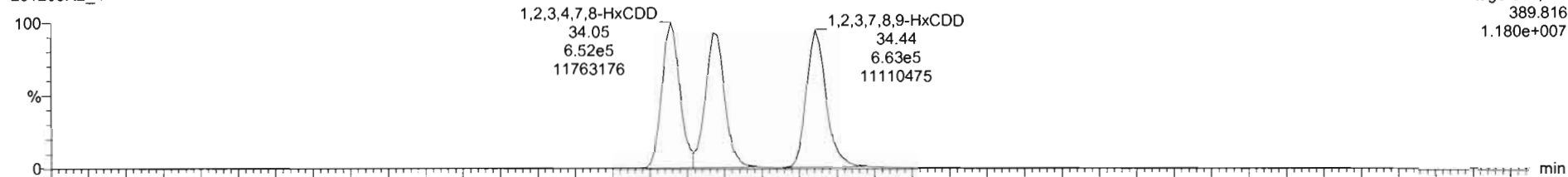
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_4, Date: 03-Dec-2020, Time: 13:00:37, ID: ST201203R2_4 1613 CS4 20L0302, Description: 1613 CS4 20L0302

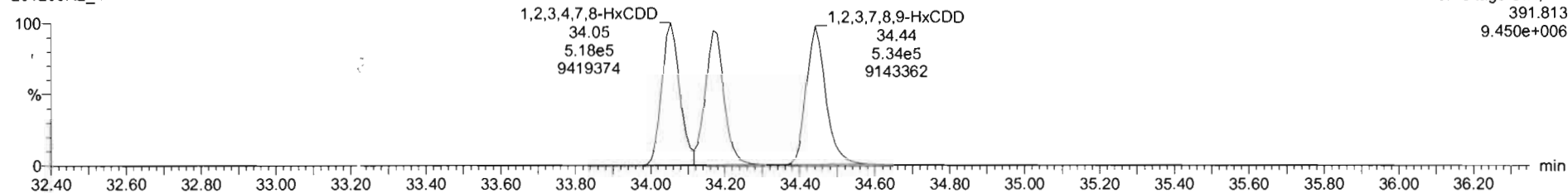
1,2,3,4,7,8-HxCDD

201203R2_4



F3:Voltage SIR,EI+
389.816
1.180e+007

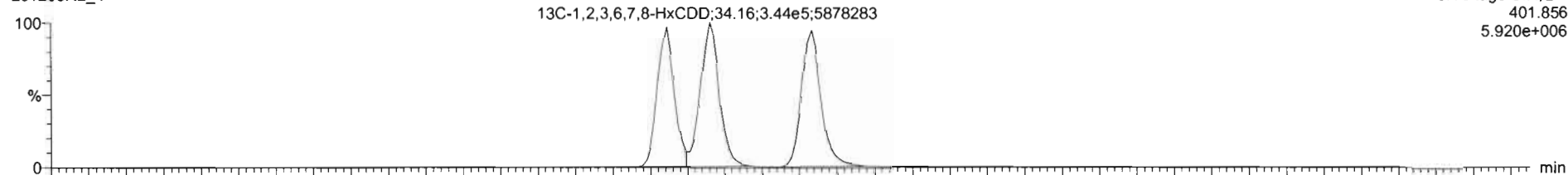
201203R2_4



F3:Voltage SIR,EI+
391.813
9.450e+006

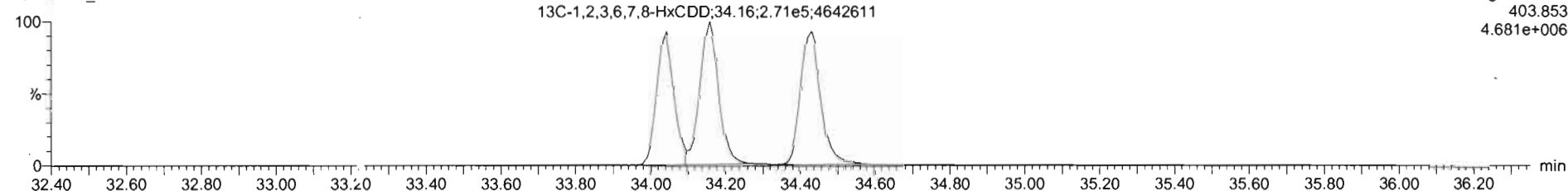
13C-1,2,3,4,7,8-HxCDD

201203R2_4



F3:Voltage SIR,EI+
401.856
5.920e+006

201203R2_4



F3:Voltage SIR,EI+
403.853
4.681e+006

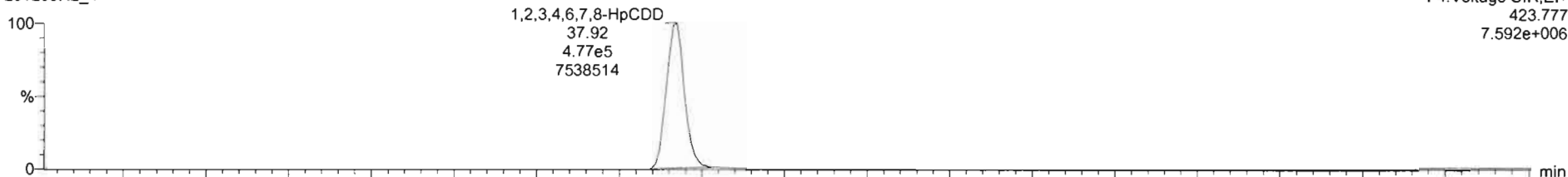
Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_4, Date: 03-Dec-2020, Time: 13:00:37, ID: ST201203R2_4 1613 CS4 20L0302, Description: 1613 CS4 20L0302

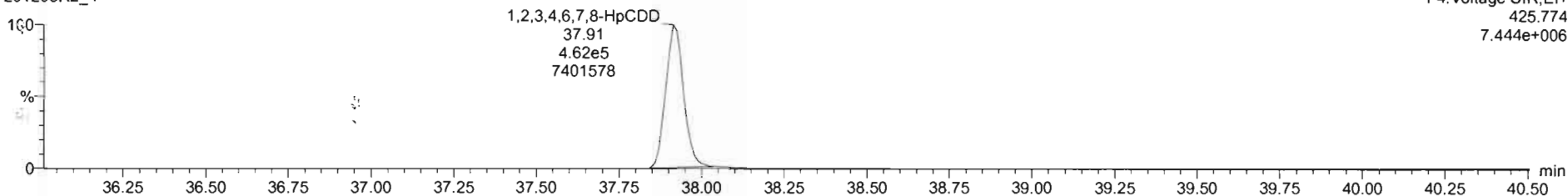
1,2,3,4,6,7,8-HpCDD

201203R2_4



F4:Voltage SIR,EI+
423.777
7.592e+006

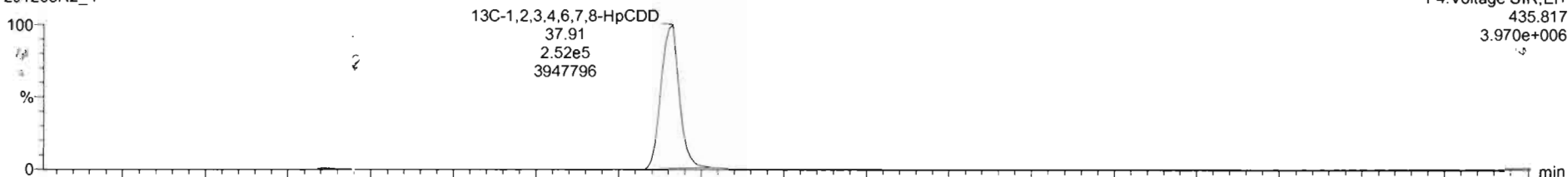
201203R2_4



F4:Voltage SIR,EI+
425.774
7.444e+006

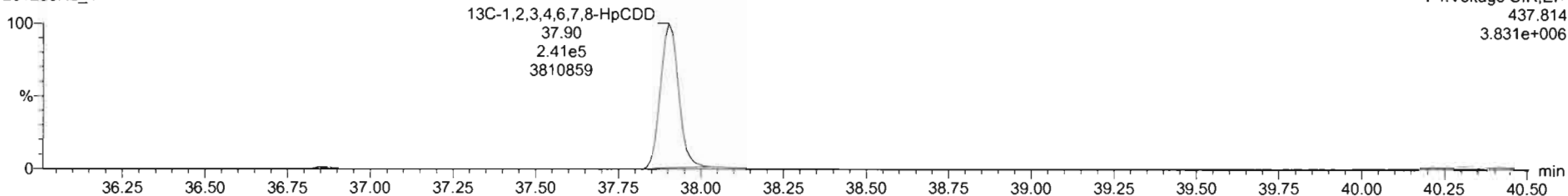
13C-1,2,3,4,6,7,8-HpCDD

201203R2_4



F4:Voltage SIR,EI+
435.817
3.970e+006

201203R2_4



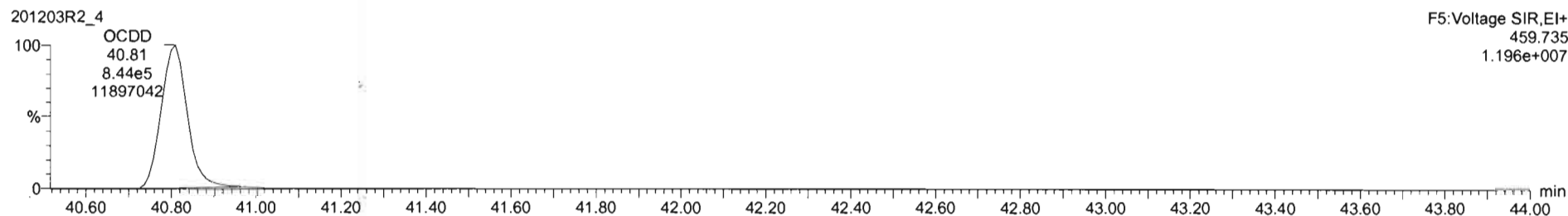
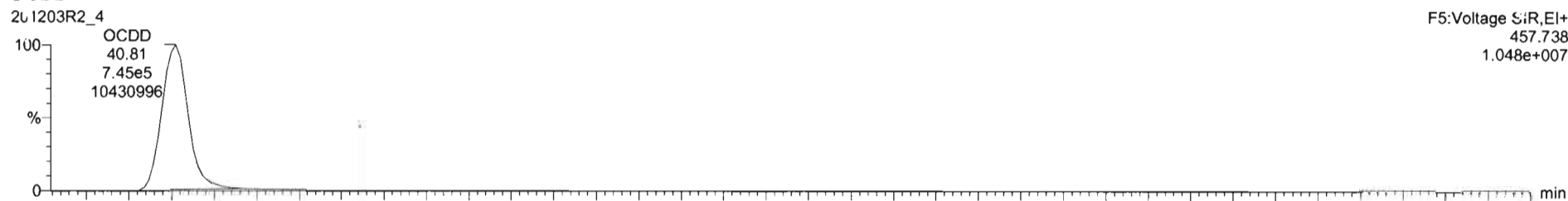
F4:Voltage SIR,EI+
437.814
3.831e+006

Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

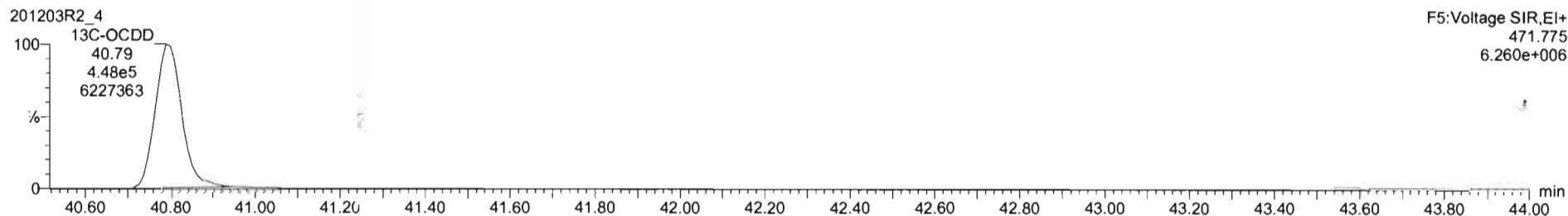
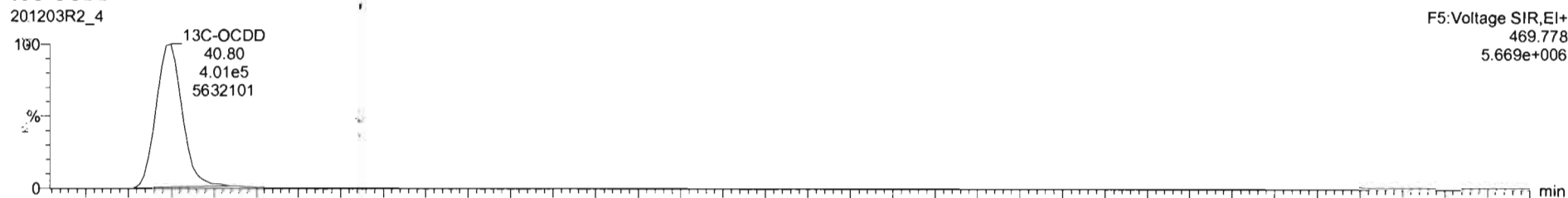
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_4, Date: 03-Dec-2020, Time: 13:00:37, ID: ST201203R2_4 1613 CS4 20L0302, Description: 1613 CS4 20L0302

OCDD



13C-OCDD



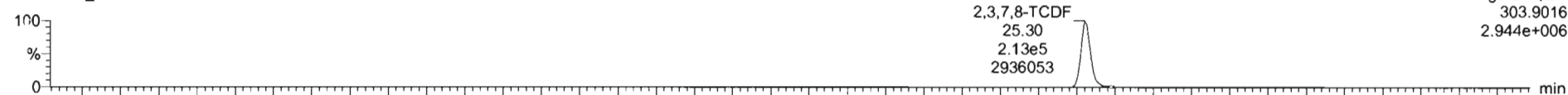
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

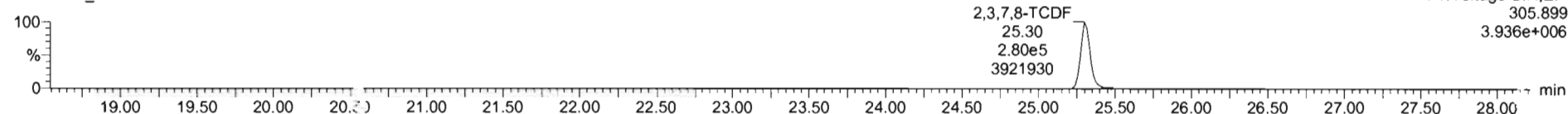
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2,3,7,8-TCDF

201203R2_4

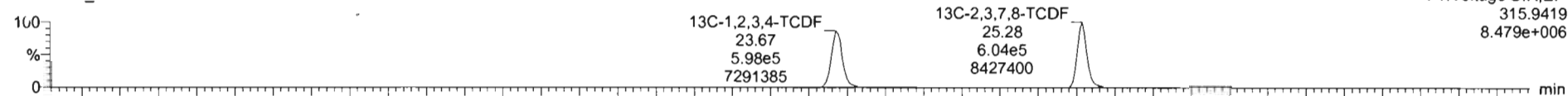


201203R2_4

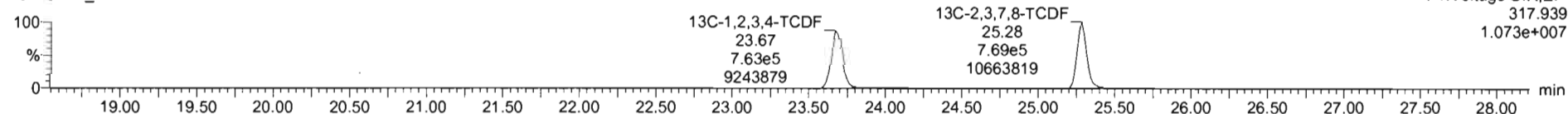


13C-2,3,7,8-TCDF

201203R2_4

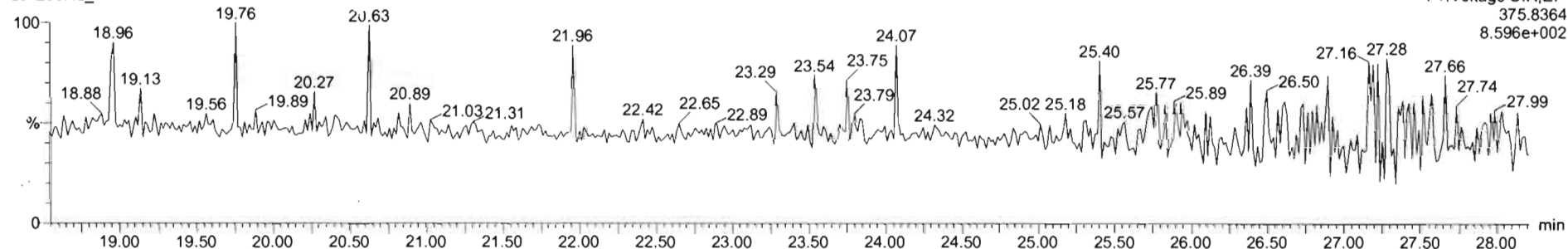


201203R2_4



DPE1

201203R2_4

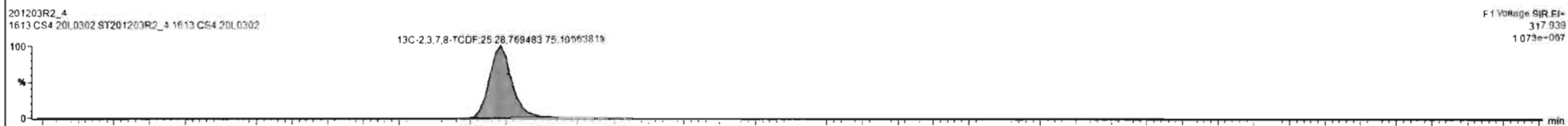
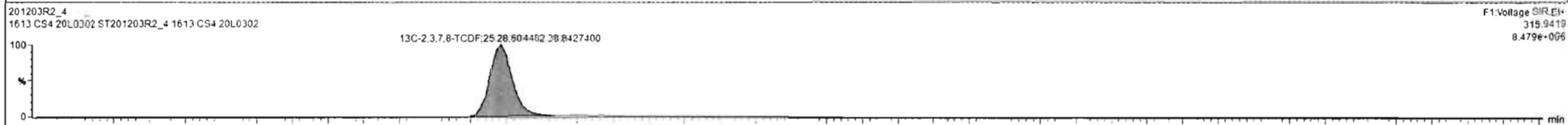
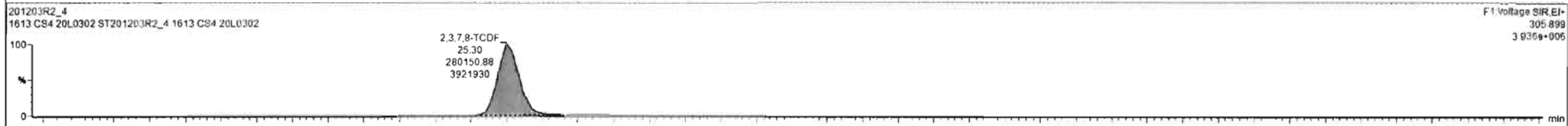
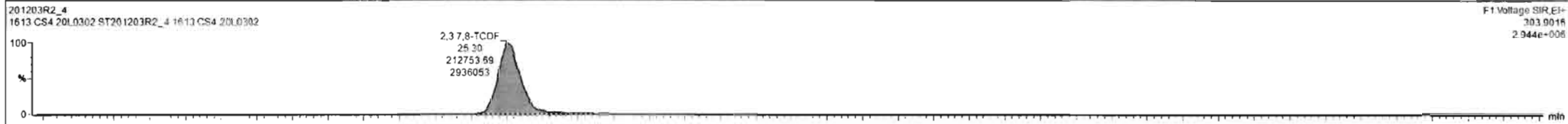


TargetLynx - 201203R2_CRV.qld - [Chromatogram]

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201203R2_4 - ST201203R2_4 1613 CS4 20L0302 - 1613 CS4 20L0302

#	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	3.98e5	9.54e5	0.77	0.78	NO	0.9805	26.01	25.99	NO	1.001	1.001	42.5	106	NO
2	2 1,2,3,7,8-PeCDD	1.39e6	7.22e5	0.63	0.62	NO	0.9320	30.74	30.74	NO	1.000	1.000	207	104	NO
3	3 1,2,3,4,7,8-HxCDD	1.17e6	5.28e5	1.24	1.26	NO	1.0203	34.05	34.05	NO	1.000	1.000	217	108	NO
4	4 1,2,3,6,7,8-HxCDD	1.18e6	8.16e5	1.24	1.26	NO	0.9025	34.17	34.17	NO	1.000	1.000	213	107	NO
5	5 1,2,3,7,8,9-HxCDD	1.20e6	5.99e5	1.24	1.24	NO	0.9552	34.44	34.44	NO	1.000	1.000	209	105	NO
6	6 1,2,3,4,6,7,8-HpCDD	9.39e5	4.93e5	1.04	1.03	NO	0.9180	37.91	37.92	NO	1.000	1.000	208	104	NO
7	7 OCDD	1.59e6	8.50e5	0.89	0.88	NO	0.8658	40.80	40.81	NO	1.000	1.000	432	108	NO
8	8 2,3,7,8-TCDF	4.93e5	1.37e6	0.77	0.78	NO	0.8480	25.29	25.30	NO	1.000	1.001	42.3	106	NO
9	9 1,2,3,7,8-PeCDF	2.24e6	1.11e6	1.55	1.57	NO	0.9597	29.49	29.48	NO	1.000	1.000	211	105	NO
10	10 2,3,4,7,8-PeCDF	2.37e6	1.06e6	1.55	1.56	NO	1.0671	30.53	30.55	NO	1.000	1.000	205	104	NO
11	11 1,2,3,4,7,8-HxCDF	1.55e6	7.36e5	1.24	1.23	NO	0.9859	33.14	33.16	NO	1.000	1.001	213	107	NO
12	12 1,2,3,6,7,8-HxCDF	1.74e6	7.93e5	1.24	1.22	NO	1.0368	33.28	33.29	NO	1.000	1.000	211	106	NO
13	13 2,3,4,6,7,8-HxCDF	1.54e6	7.08e5	1.24	1.23	NO	1.0202	33.93	33.95	NO	1.000	1.031	213	107	NO
14	14 1,2,3,7,8,9-HxCDF	1.43e6	8.76e5	1.24	1.25	NO	0.9888	34.92	34.93	NO	1.000	1.000	214	107	NO



Ready 201203R2_4 CAP NUM

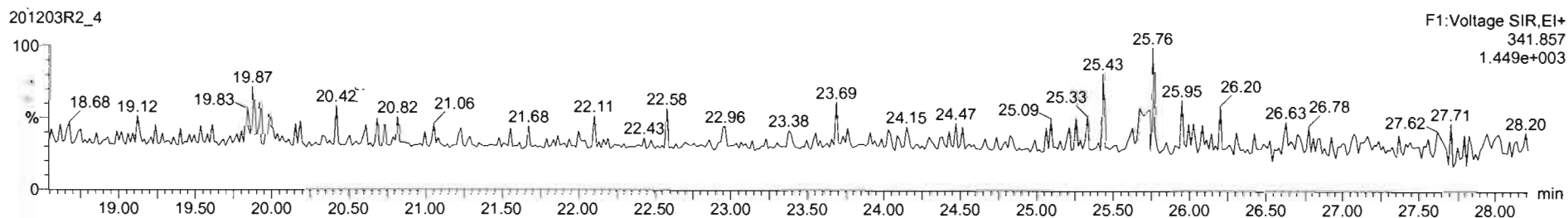
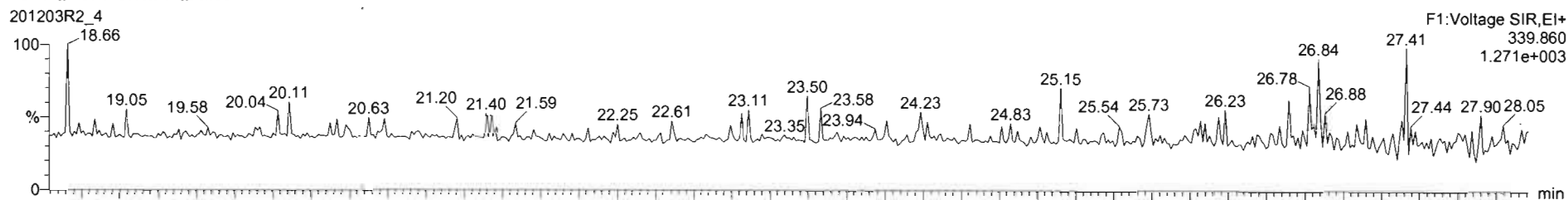
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Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time

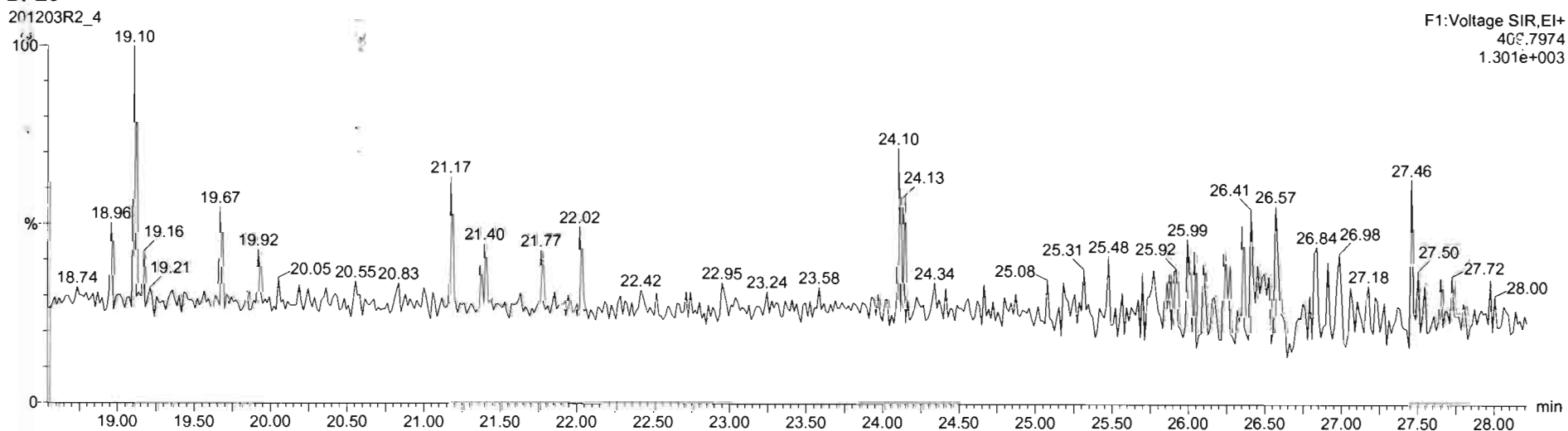
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_4, Date: 03-Dec-2020, Time: 13:00:37, ID: ST201203R2_4 1613 CS4 20L0302, Description: 1613 CS4 20L0302

1st Func. Penta-Furans



DPE6



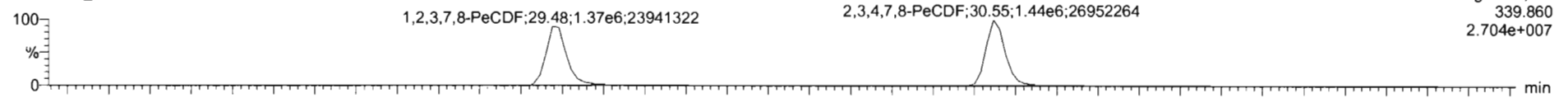
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Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_4, Date: 03-Dec-2020, Time: 13:00:37, ID: ST201203R2_4 1613 CS4 20L0302, Description: 1613 CS4 20L0302

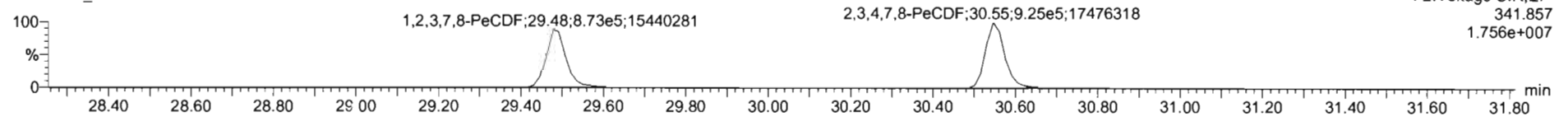
1,2,3,7,8-PeCDF

201203R2_4



F2:Voltage SIR,EI+
339.860
2.704e+007

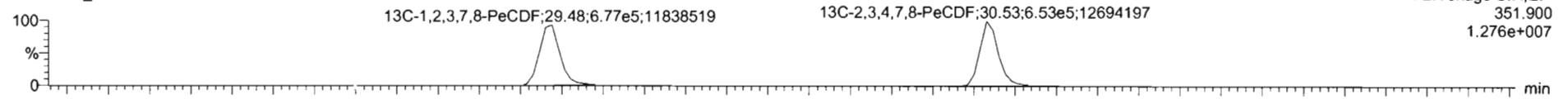
201203R2_4



F2:Voltage SIR,EI+
341.857
1.756e+007

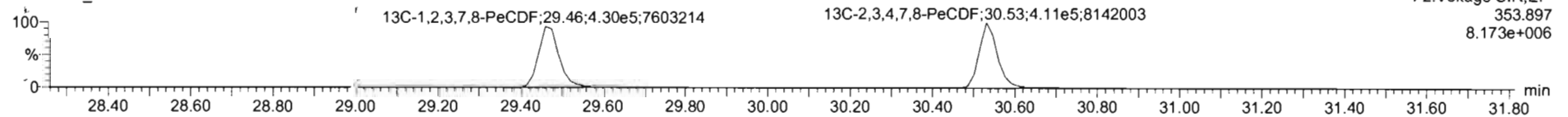
13C-1,2,3,7,8-PeCDF

201203R2_4



F2:Voltage SIR,EI+
351.900
1.276e+007

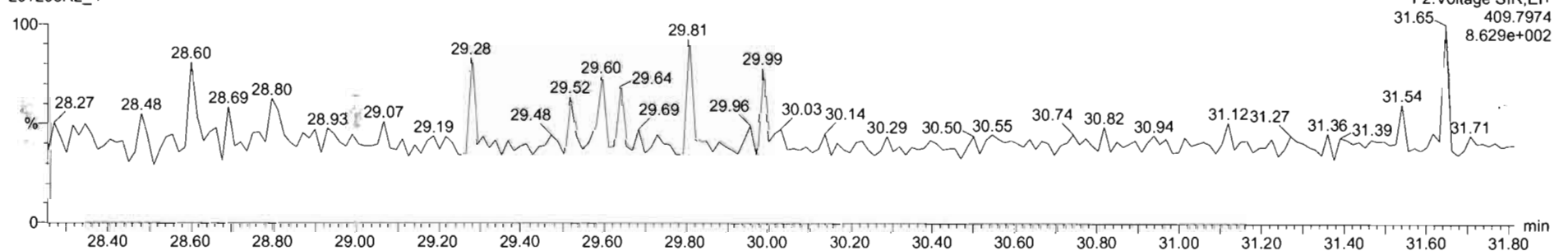
201203R2_4



F2:Voltage SIR,EI+
353.897
8.173e+006

DPE2

201203R2_4



F2:Voltage SIR,EI+
409.7974
8.629e+002

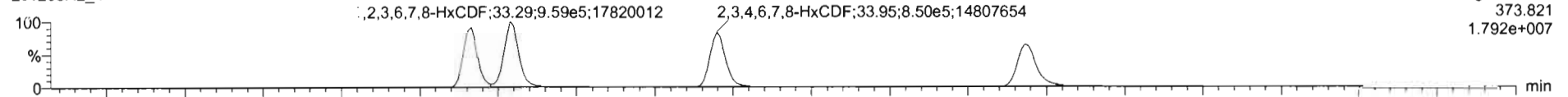
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_4, Date: 03-Dec-2020, Time: 13:00:37, ID: ST201203R2_4 1613 CS4 20L0302, Description: 1613 CS4 20L0302

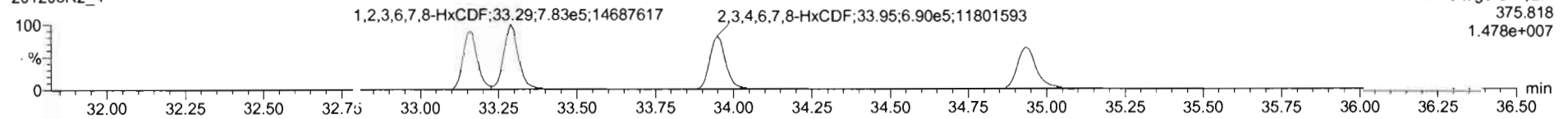
1,2,3,4,7,8-HxCDF

201203R2_4



F3:Voltage SIR,EI+
373.821
1.792e+007

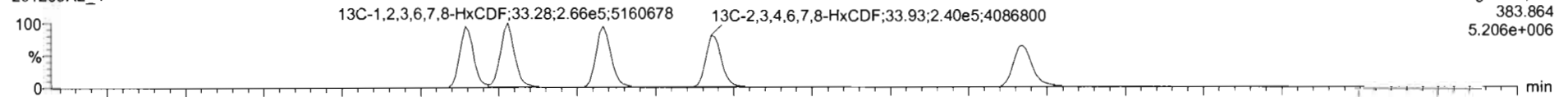
201203R2_4



F3:Voltage SIR,EI+
375.818
1.478e+007

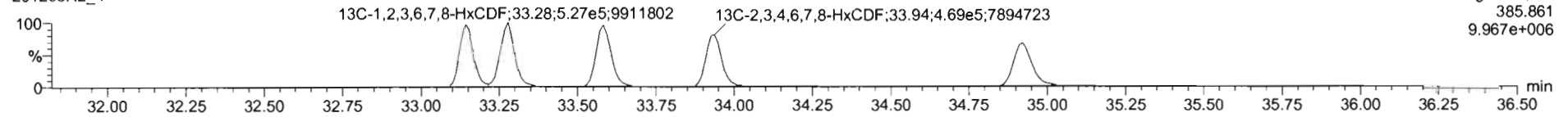
13C-1,2,3,4,7,8-HxCDF

201203R2_4



F3:Voltage SIR,EI+
383.864
5.206e+006

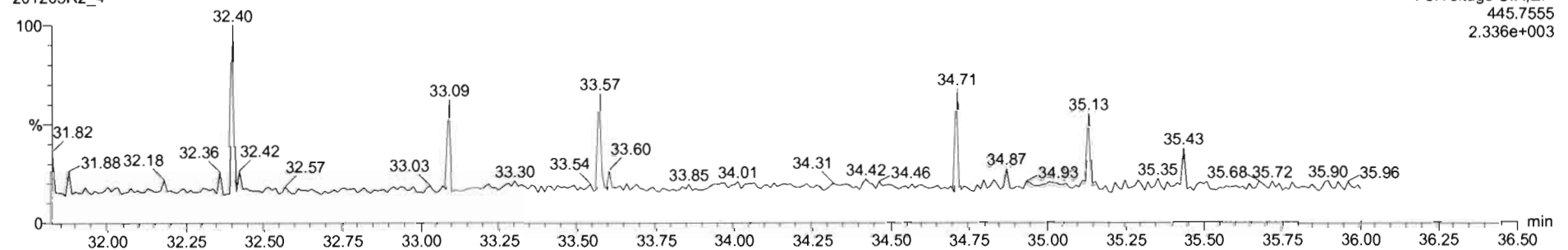
201203R2_4



F3:Voltage SIR,EI+
385.861
9.967e+006

DPE3

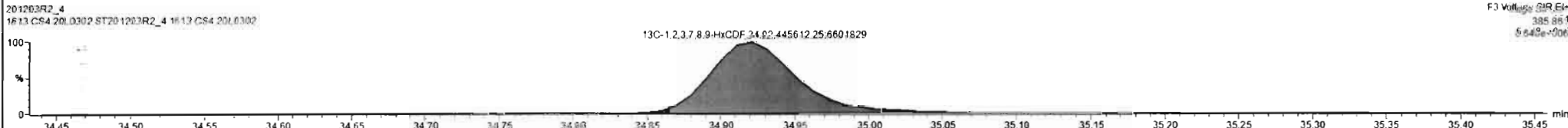
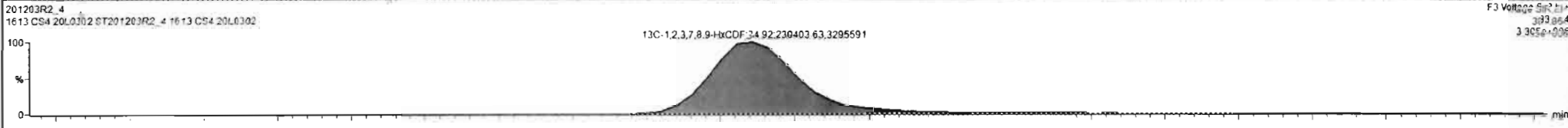
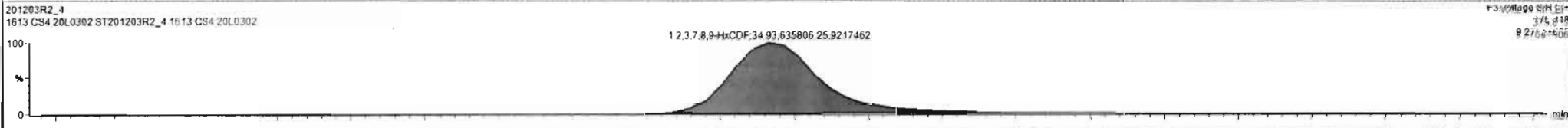
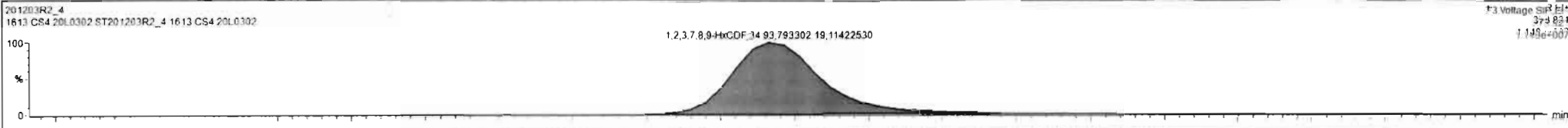
201203R2_4



F3:Voltage SIR,EI+
445.7555
2.336e+003

201203R2_4 - ST201203R2_4 1613 CS4 20L0302 - 1613 CS4 20L0302

#	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-TCDO	3.98e5	9.54e5	0.77	0.78	NO	0.9805	26.01	25.99	NO	1.001	1.001	42.5	106	NO
2	1,2,3,7,8-PeCDO	1.39e6	7.22e5	0.63	0.62	NO	0.9320	30.74	30.74	NO	1.000	1.000	207	104	NO
3	1,2,3,4,7,8-HxCDO	1.17e6	5.28e5	1.24	1.26	NO	1.0203	34.05	34.05	NO	1.000	1.000	217	108	NO
4	1,2,3,6,7,8-HxCDO	1.18e6	6.16e5	1.24	1.26	NO	0.9025	34.17	34.17	NO	1.000	1.000	213	107	NO
5	1,2,3,7,8,9-HxCDO	1.20e6	5.99e5	1.24	1.24	NO	0.9552	34.44	34.44	NO	1.000	1.000	209	105	NO
6	1,2,3,4,6,7,8-HpCDO	9.39e5	4.93e5	1.04	1.03	NO	0.9180	37.91	37.92	NO	1.000	1.000	208	104	NO
7	OCDO	1.59e6	8.50e5	0.89	0.88	NO	0.9658	40.80	40.81	NO	1.000	1.000	432	108	NO
8	2,3,7,8-TCDF	4.93e5	1.37e6	0.77	0.76	NO	0.8480	25.29	25.30	NO	1.000	1.001	42.3	106	NO
9	1,2,3,7,8-PeCDF	2.24e6	1.11e6	1.55	1.57	NO	0.9697	29.49	29.48	NO	1.000	1.000	211	105	NO
10	2,3,4,7,8-PeCDF	2.37e6	1.06e6	1.55	1.56	NO	1.0671	30.53	30.55	NO	1.000	1.000	208	104	NO
11	1,2,3,4,7,8-HxCDF	1.55e6	7.36e5	1.24	1.23	NO	0.9659	33.14	33.16	NO	1.000	1.001	213	107	NO
12	1,2,3,6,7,8-HxCDF	1.74e6	7.93e5	1.24	1.22	NO	1.0388	33.26	33.29	NO	1.000	1.000	211	106	NO
13	2,3,4,6,7,8-HxCDF	1.54e6	7.08e5	1.24	1.23	NO	1.0202	33.93	33.95	NO	1.000	1.001	213	107	NO
14	1,2,3,7,8-HxCDF	1.43e6	6.78e5	1.24	1.25	NO	0.9888	34.92	34.93	NO	1.000	1.000	214	107	NO

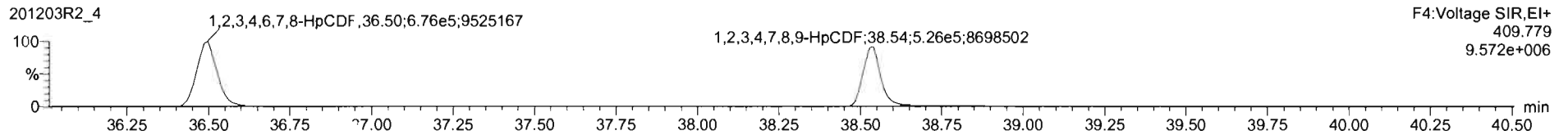
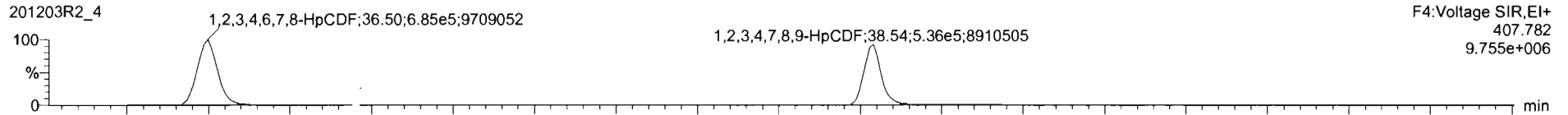


Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

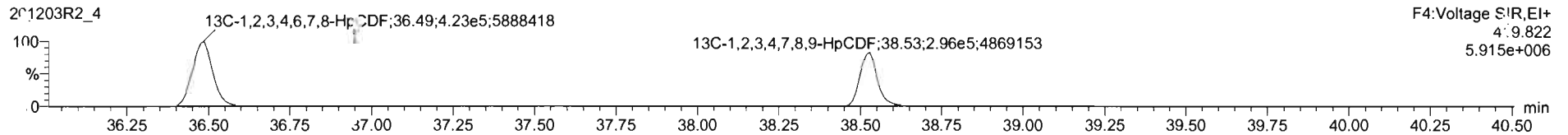
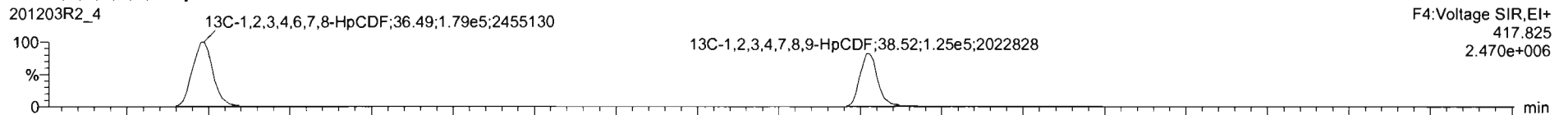
Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_4, Date: 03-Dec-2020, Time: 13:00:37, ID: ST201203R2_4 1613 CS4 20L0302, Description: 1613 CS4 20L0302

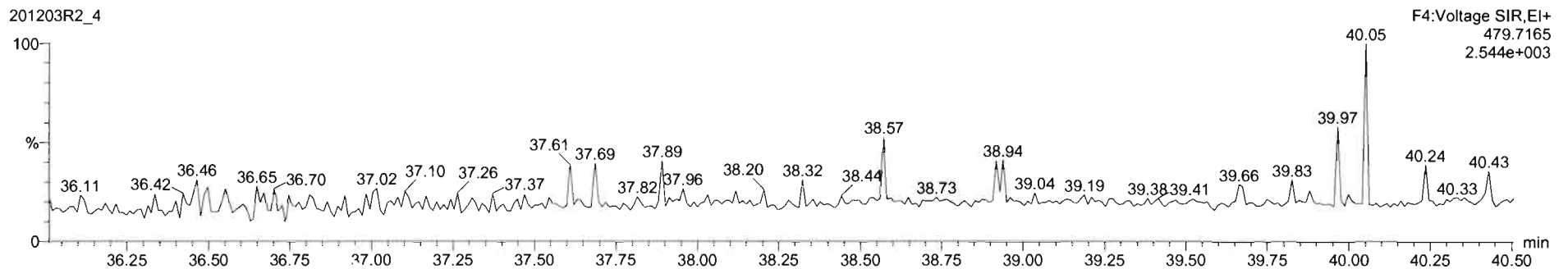
1,2,3,4,6,7,8-HpCDF



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



DPE4

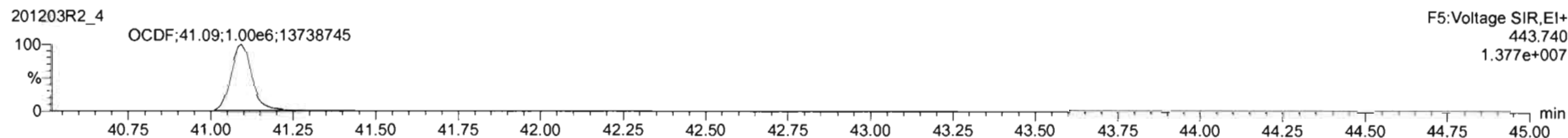
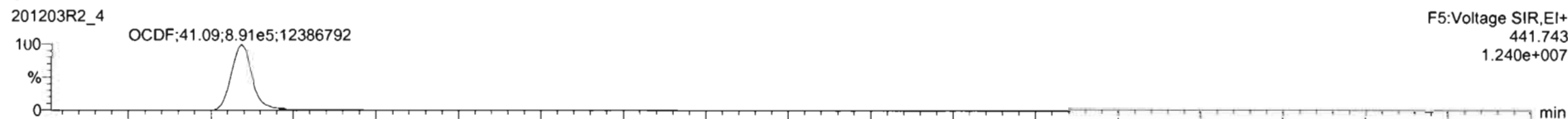


Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

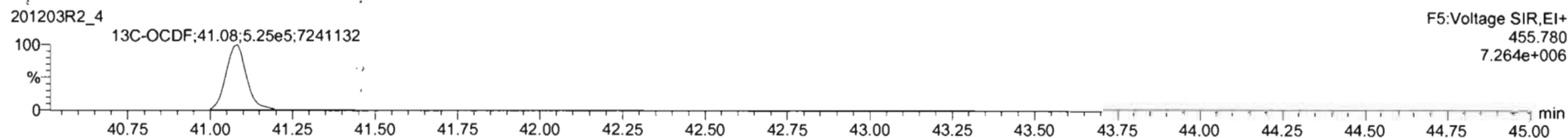
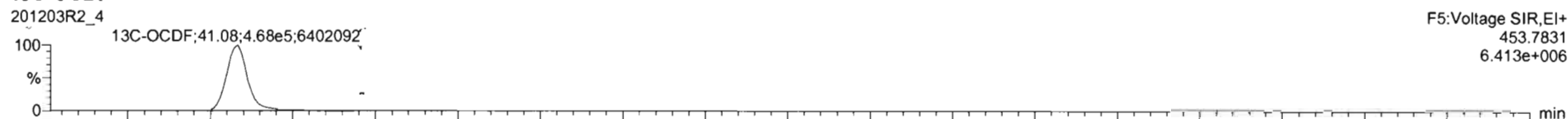
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

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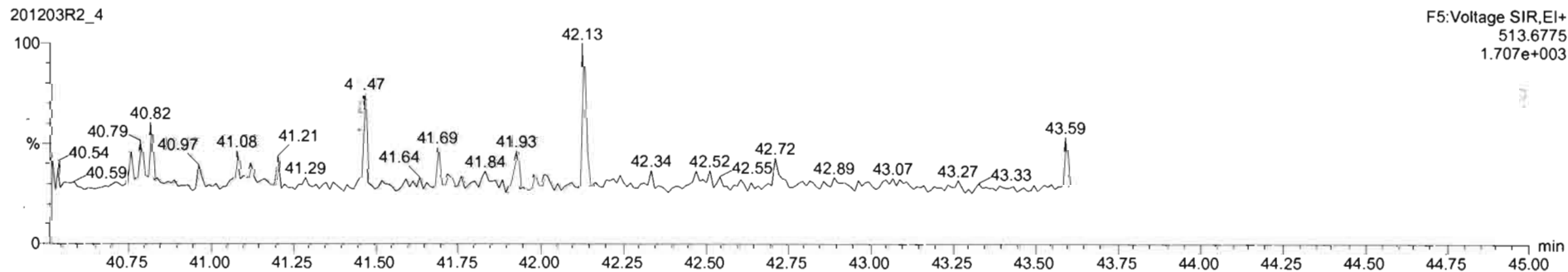
OCDF



13C-OCDF

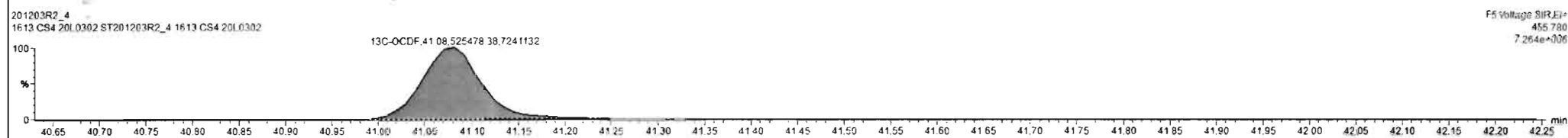
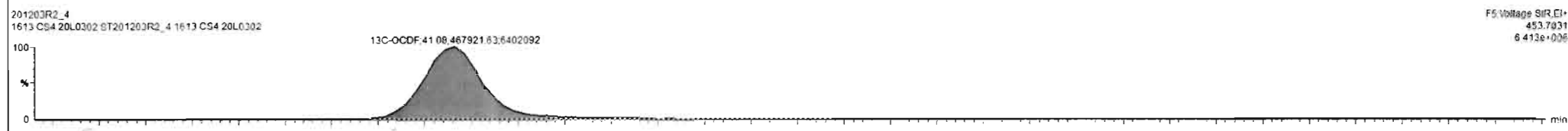
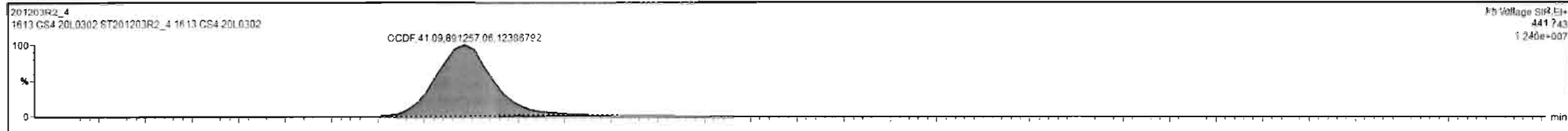


DPE5



201203R2_4 - ST201203R2_4 1613 CS4 20L0302 1613 CS4 20L0302

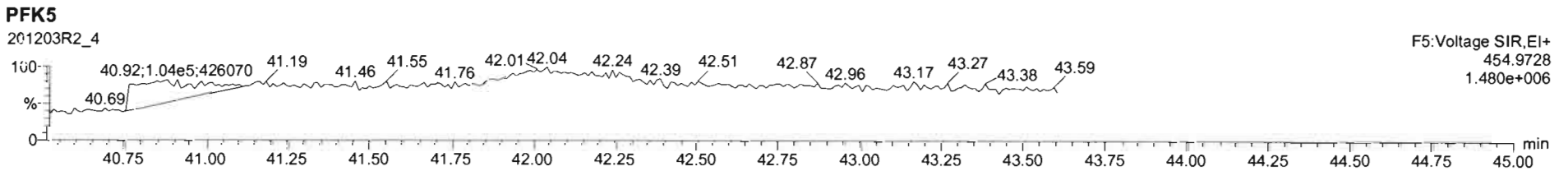
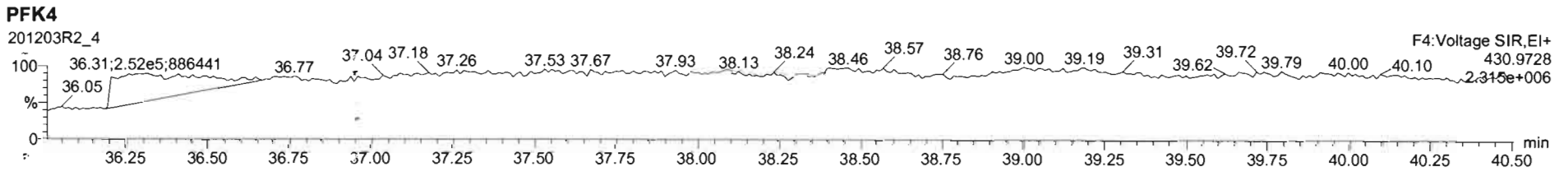
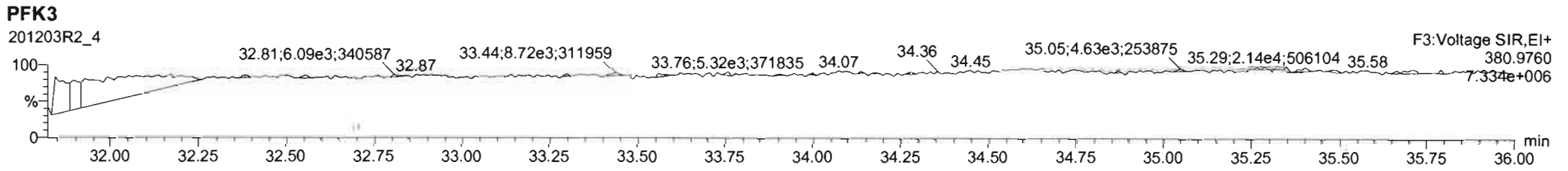
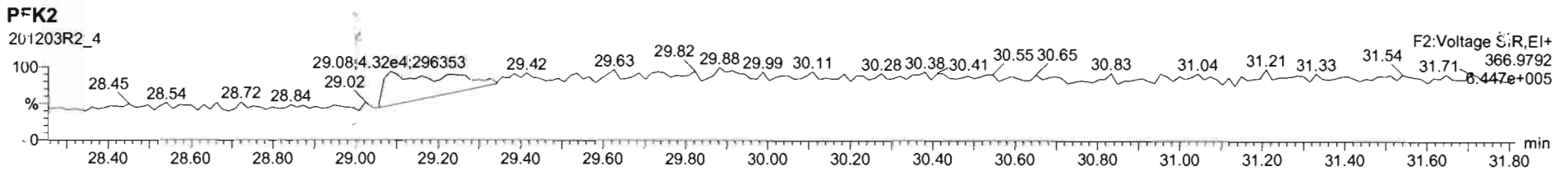
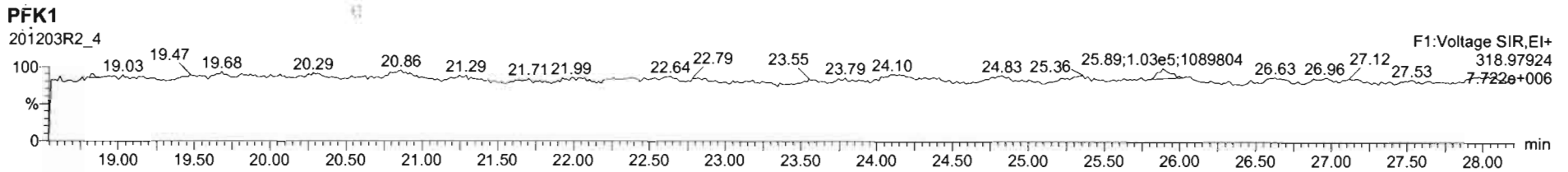
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17	OCDF	1.89e6	9.93e5	0.89	0.89	NO	0.9960	41.09	41.09	NO	1.000	1.000	435	106	NO
18	13C-2,3,7,8-TCDD	9.54e5	8.19e5	0.77	0.79	NO	1.0555	25.97	25.98	NO	1.030	1.031	110	110	NO
19	13C-1,2,3,7,8-PeCDD	7.22e5	8.19e5	0.63	0.63	NO	0.7847	30.67	30.73	NO	1.215	1.219	112	112	NO
20	13C-1,2,3,4,7,8-HxCDD	5.28e5	7.82e5	1.24	1.30	NO	0.6205	34.05	34.04	NO	1.014	1.014	109	109	NO
21	13C-1,2,3,6,7,8-HxCDD	6.18e5	7.82e5	1.24	1.27	NO	0.7340	34.19	34.18	NO	1.018	1.017	107	107	NO
22	13C-1,2,3,7,8-HxCDD	5.99e5	7.82e5	1.24	1.24	NO	0.7225	34.43	34.43	NO	1.025	1.025	106	106	NO
23	13C-1,2,3,4,6,7,8-HpCDD	4.93e5	7.82e5	1.04	1.04	NO	0.5877	37.90	37.91	NO	1.129	1.129	111	111	NO
24	13C-OCDD	8.50e5	7.82e5	0.89	0.89	NO	0.4958	40.86	40.80	NO	1.217	1.215	219	110	NO
25	13C-2,3,7,8-TCDF	1.37e6	1.36e6	0.77	0.79	NO	0.9190	25.29	25.28	NO	1.003	1.003	110	110	NO
26	13C-1,2,3,7,8-PeCDF	1.11e6	1.36e6	1.55	1.57	NO	0.7151	29.40	29.46	NO	1.166	1.169	114	114	NO
27	13C-2,3,4,7,8-PeCDF	1.06e6	1.36e6	1.55	1.59	NO	0.6885	30.46	30.53	NO	1.208	1.211	114	114	NO
28	13C-1,2,3,4,7,8-HxCDF	7.38e5	7.82e5	0.51	0.51	NO	0.8724	33.14	33.14	NO	0.987	0.987	108	108	NO
29	13C-1,2,3,6,7,8-HxCDF	7.93e5	7.82e5	0.51	0.50	NO	0.9335	33.27	33.28	NO	0.991	0.991	109	109	NO



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_4, Date: 03-Dec-2020, Time: 13:00:37, ID: ST201203R2_4 1613 CS4 20L0302, Description: 1613 CS4 20L0302



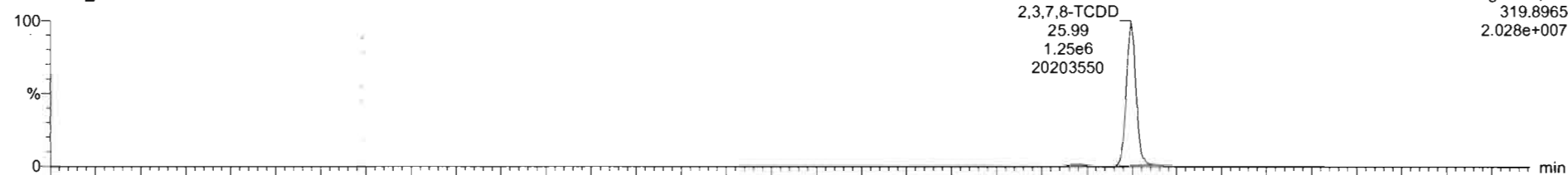
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Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

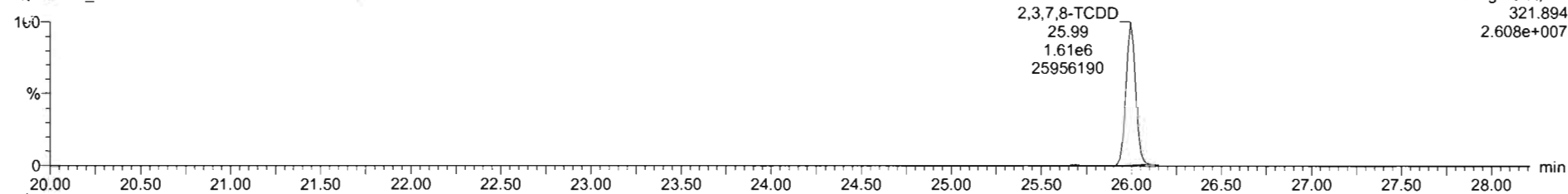
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2,3,7,8-TCDD

201203R2_5

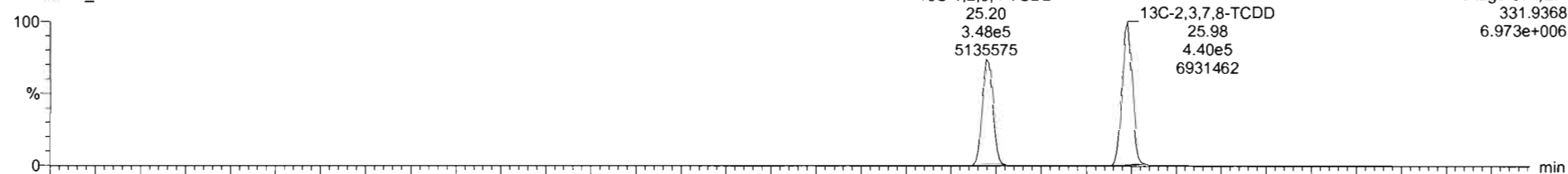


201203R2_5

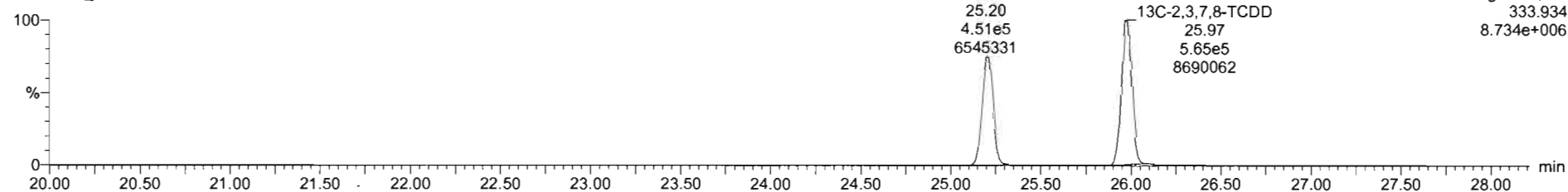


¹³C-2,3,7,8-TCDD

201203R2_5



201203R2_5



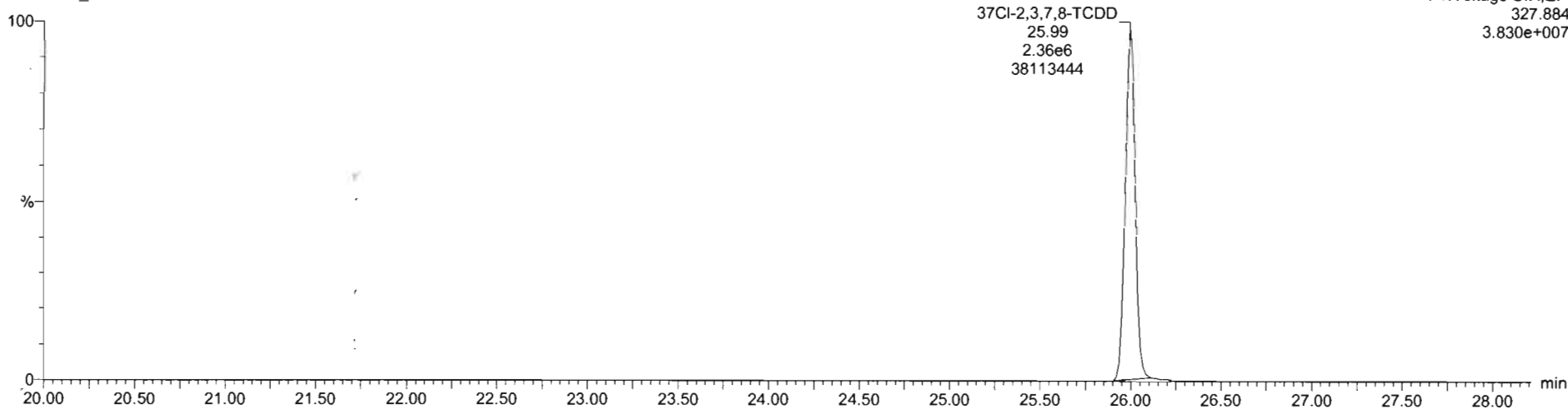
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Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_5, Date: 03-Dec-2020, Time: 13:47:04, ID: ST201203R2_5 1613 CS5 20L0303, Description: 1613 CS5 20L0303

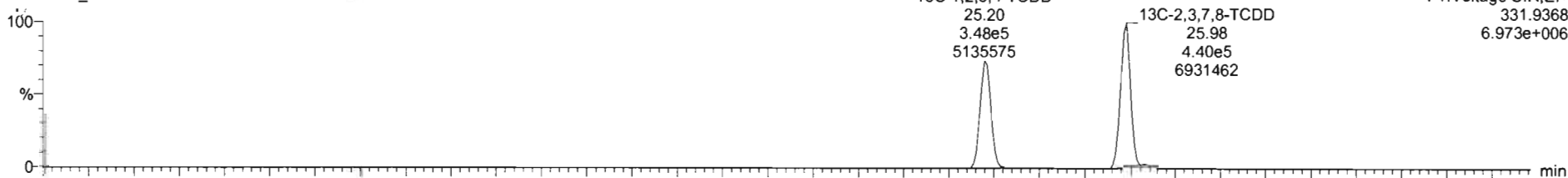
37Cl-2,3,7,8-TCDD

201203R2_5

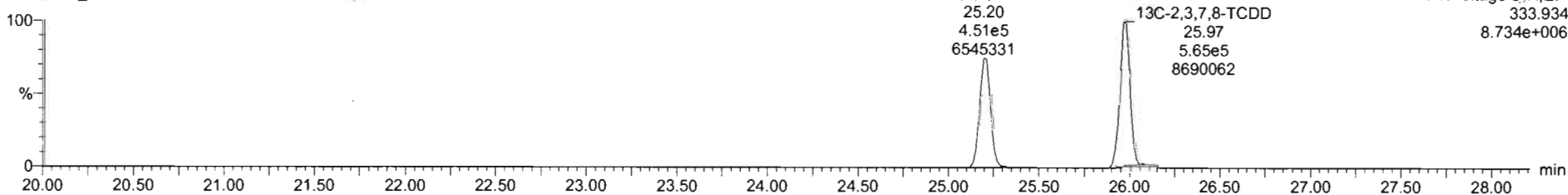


13C-1,2,3,4-TCDD

201203R2_5



201203R2_5



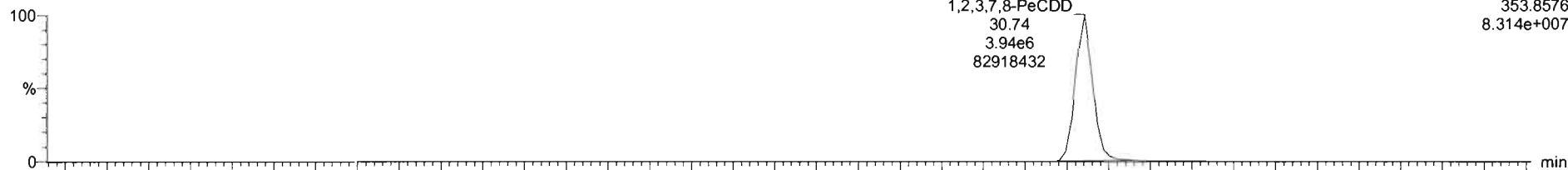
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Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

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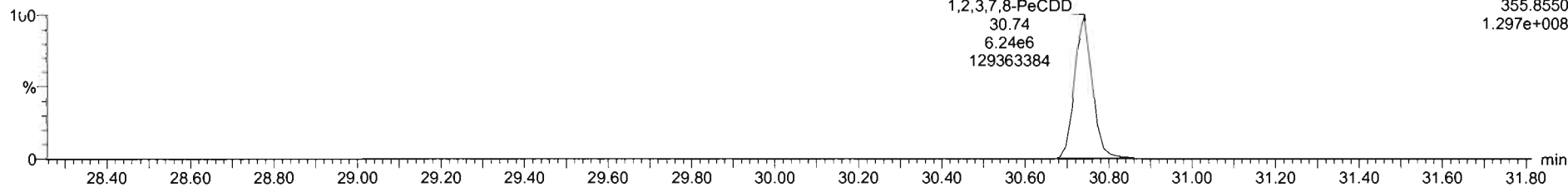
1,2,3,7,8-PeCDD

201203R2_5



F2:Voltage SIR,EI+
353.8576
8.314e+007

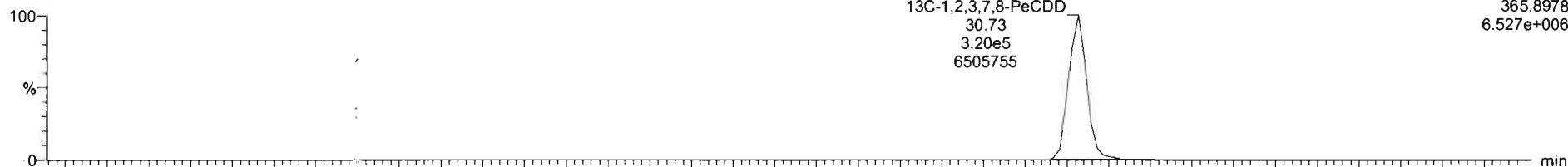
201203R2_5



F2:Voltage SIR,EI+
355.8550
1.297e+008

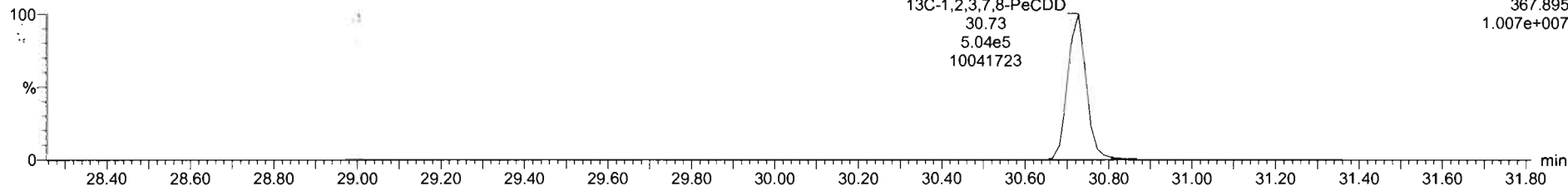
13C-1,2,3,7,8-PeCDD

201203R2_5



F2:Voltage SIR,EI+
365.8978
6.527e+006

201203R2_5



F2:Voltage SIR,EI+
367.895
1.007e+007

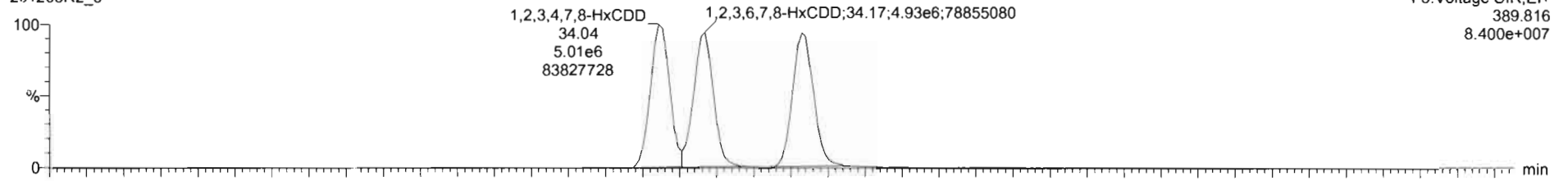
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

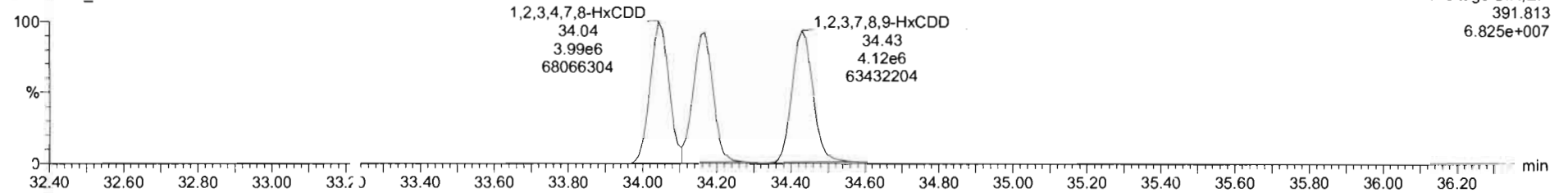
Name: 201203R2_5, Date: 03-Dec-2020, Time: 13:47:04, ID: ST201203R2_5 1613 CS5 20L0303, Description: 1613 CS5 20L0303

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

201203R2_5

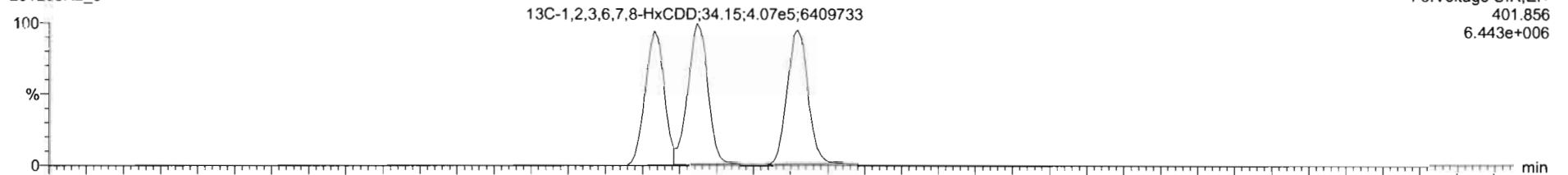


201203R2_5

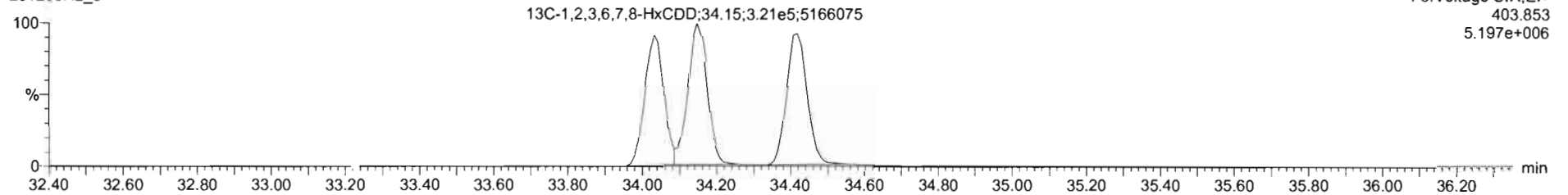


13C-1,2,3,4,7,8-HxCDD

201203R2_5



201203R2_5



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

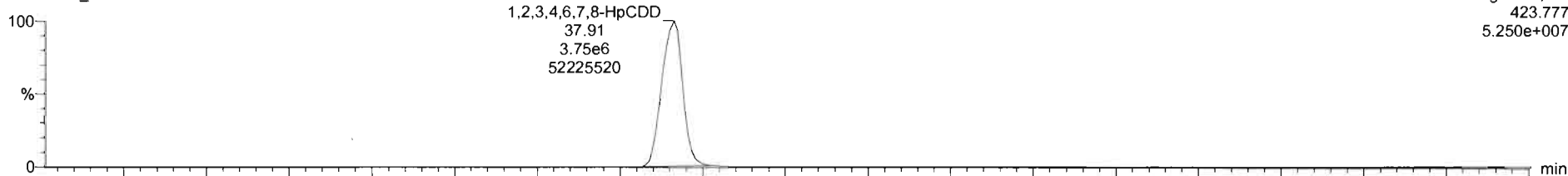
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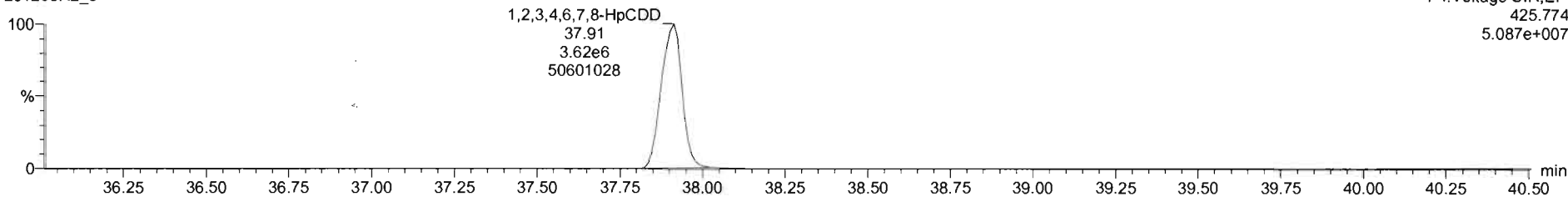
1,2,3,4,6,7,8-HpCDD

201203R2_5



F4: Voltage SIR, EI+
423.777
5.250e+007

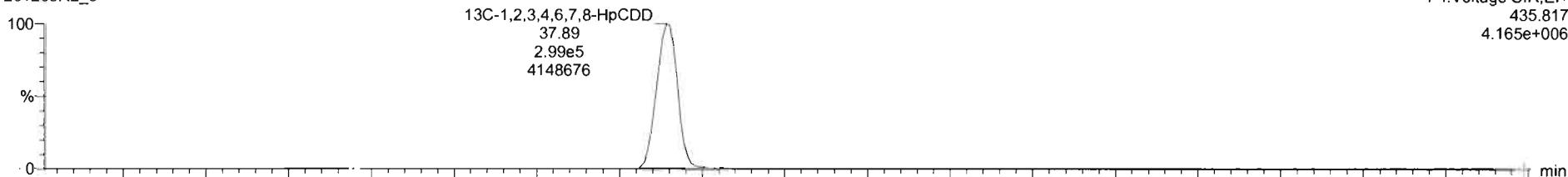
201203R2_5



F4: Voltage SIR, EI+
425.774
5.087e+007

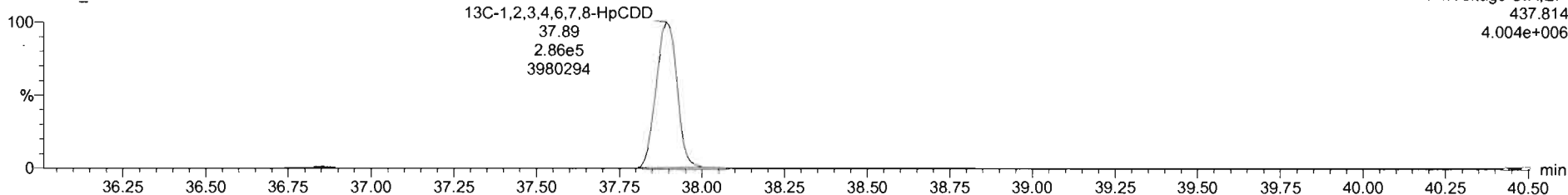
13C-1,2,3,4,6,7,8-HpCDD

201203R2_5



F4: Voltage SIR, EI+
435.817
4.165e+006

201203R2_5



F4: Voltage SIR, EI+
437.814
4.004e+006

Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

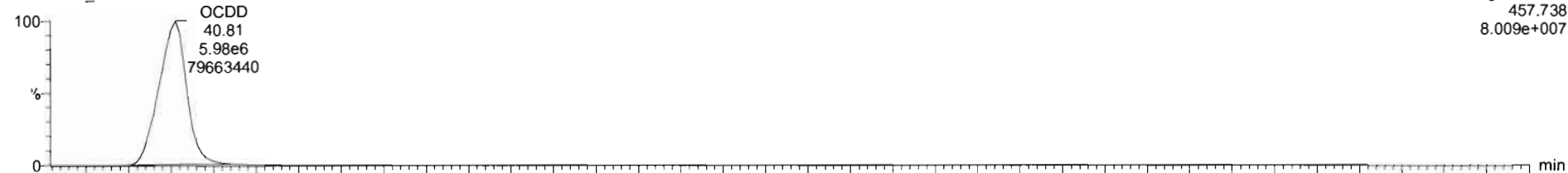
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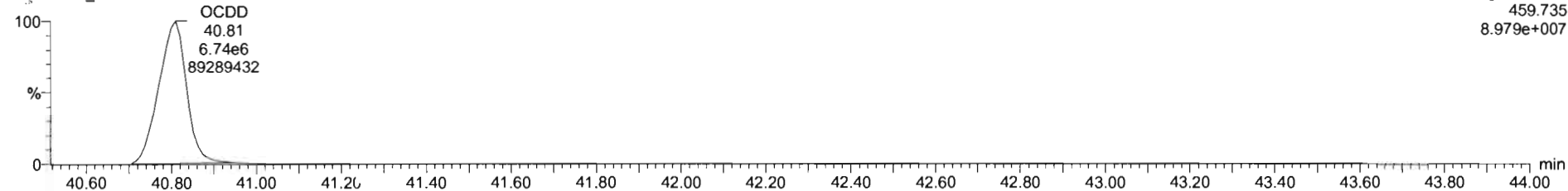
OCDD

201203R2_5



F5:Voltage SIR,EI+
457.738
8.009e+007

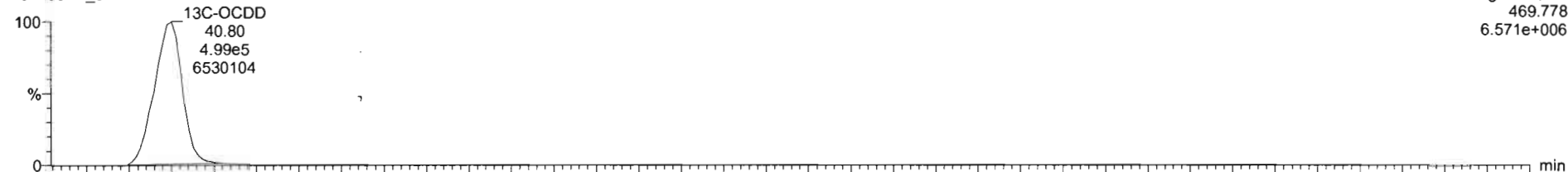
201203R2_5



F5:Voltage SIR,EI+
459.735
8.979e+007

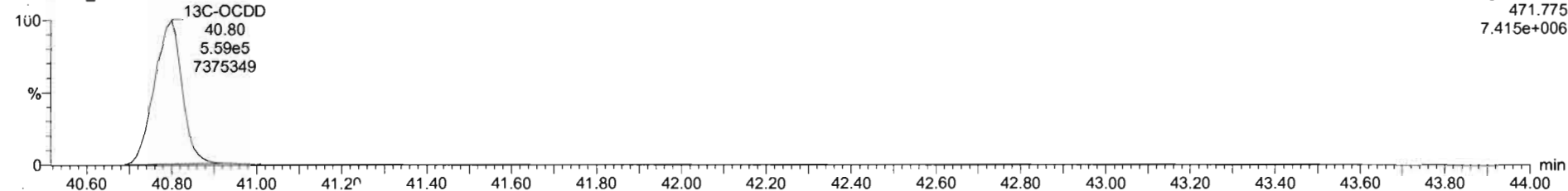
13C-OCDD

201203R2_5



F5:Voltage SIR,EI+
469.778
6.571e+006

201203R2_5



F5:Voltage SIR,EI+
471.775
7.415e+006

Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

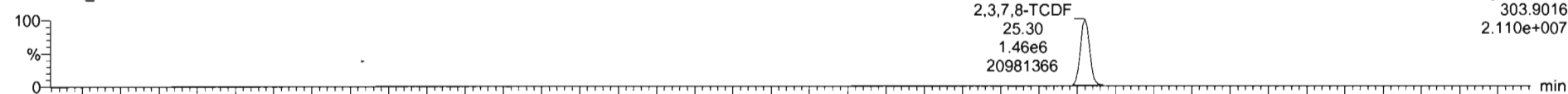
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

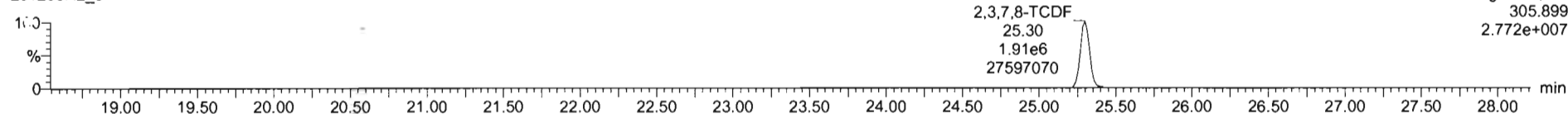
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2,3,7,8-TCDF

201203R2_5

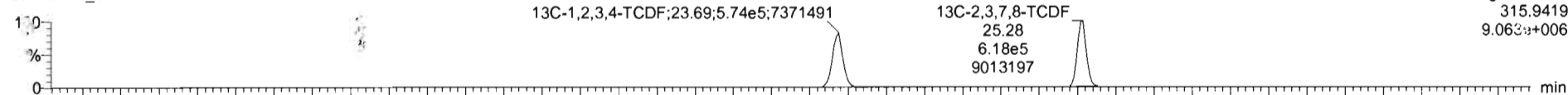


201203R2_5

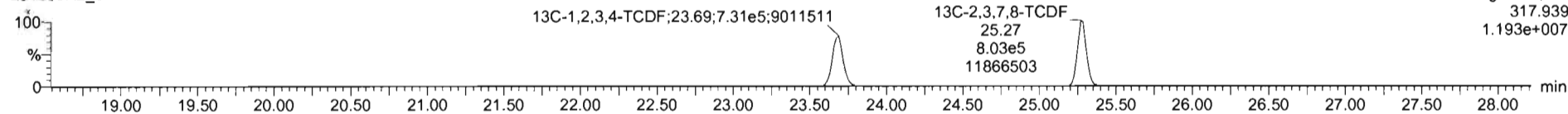


13C-2,3,7,8-TCDF

201203R2_5

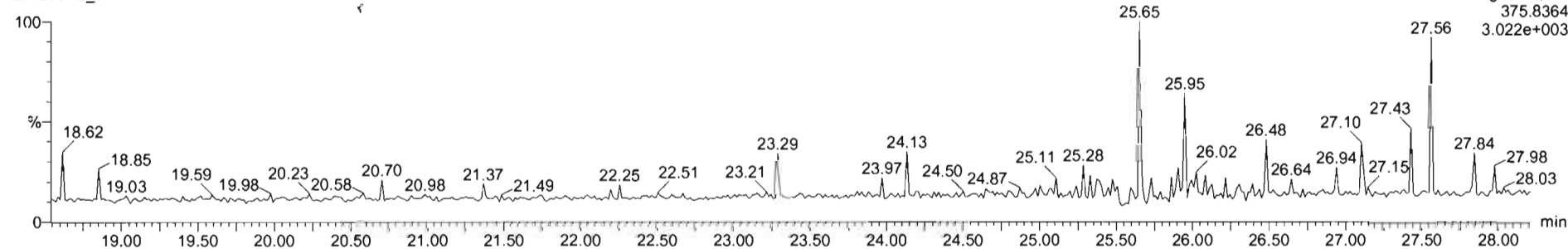


201203R2_5



DPE1

201203R2_5



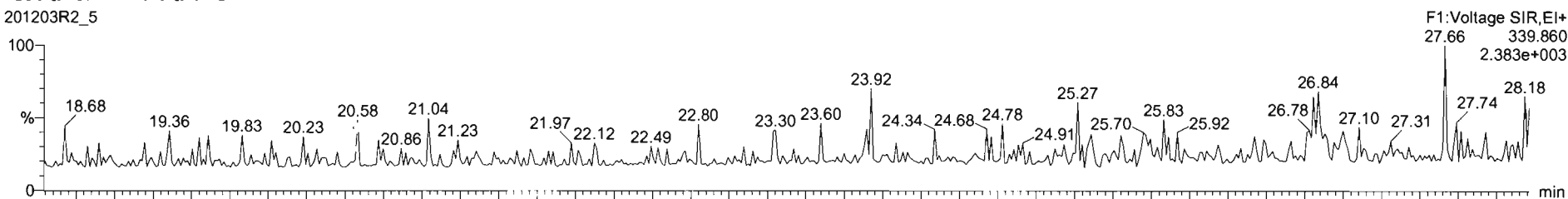
Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

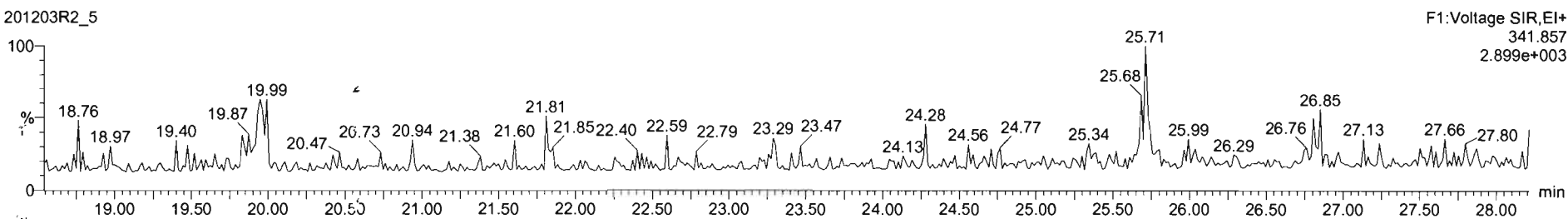
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1st Func. Penta-Furans

201203R2_5

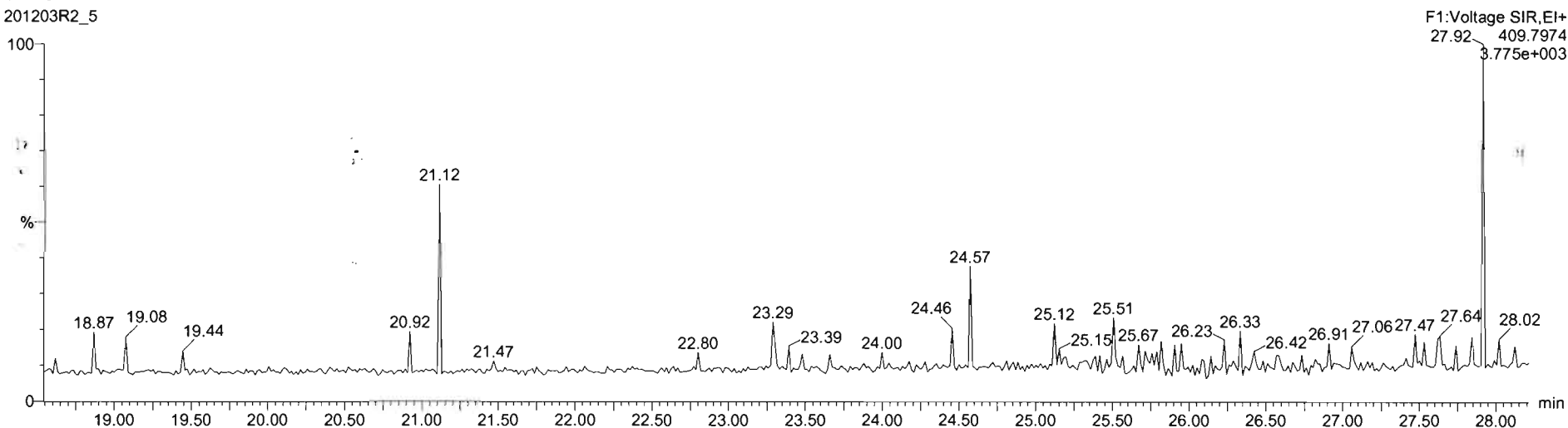


201203R2_5



DPE6

201203R2_5



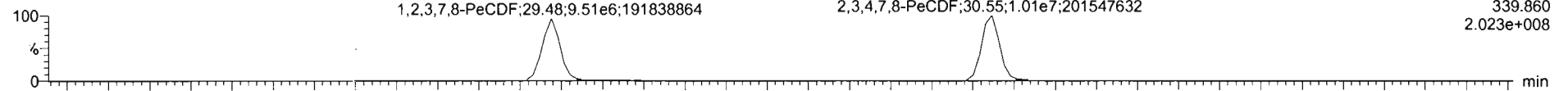
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Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

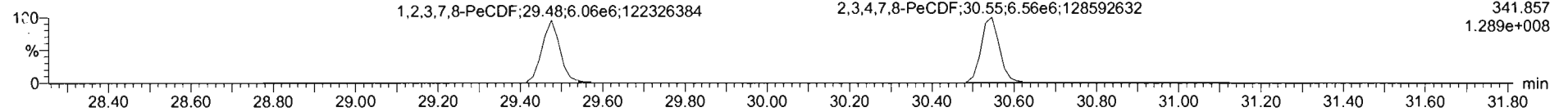
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1,2,3,7,8-PeCDF

201203R2_5

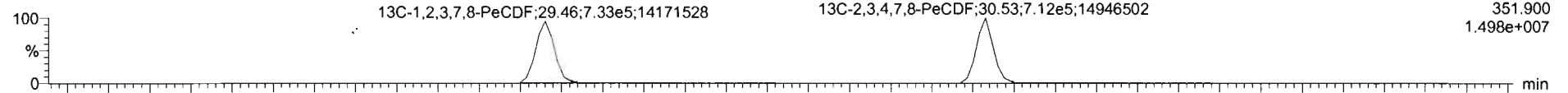


201203R2_5

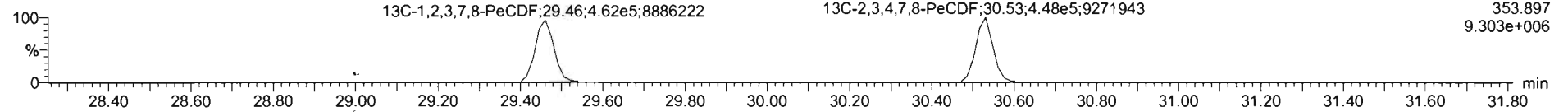


13C-1,2,3,7,8-PeCDF

201203R2_5

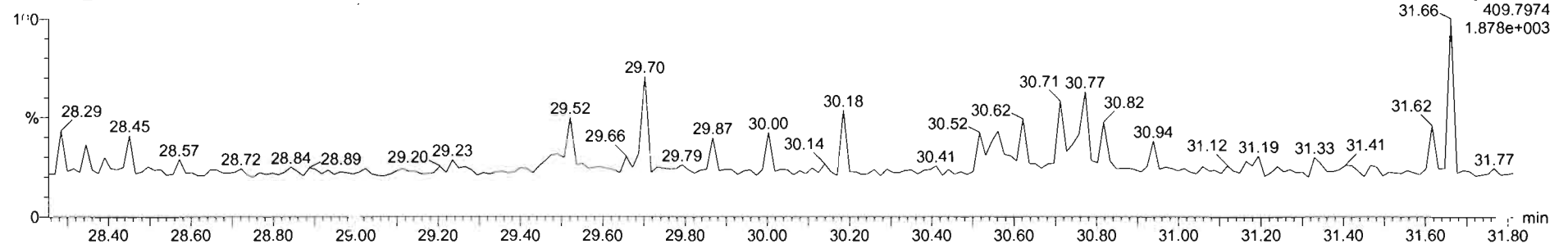


201203R2_5



DPE2

201203R2_5



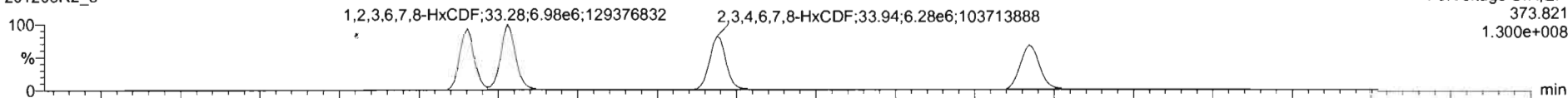
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Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

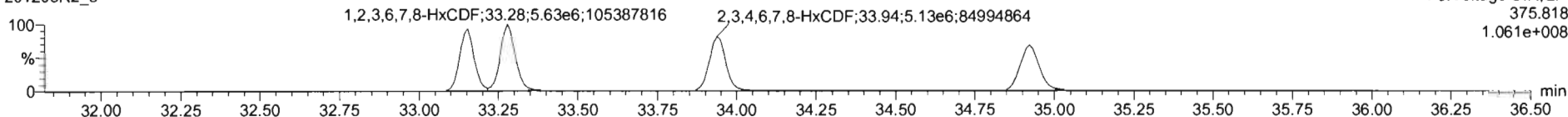
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1,2,3,4,7,8-HxCDF

201203R2_5

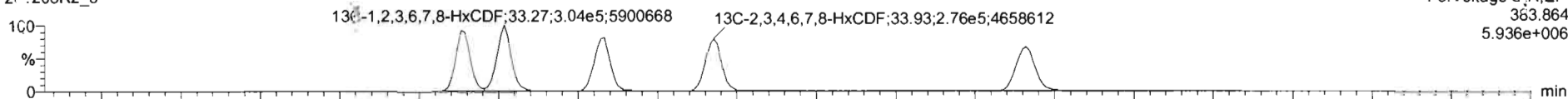


201203R2_5

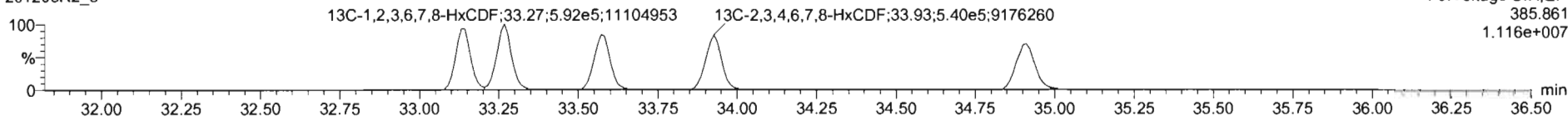


13C-1,2,3,4,7,8-HxCDF

201203R2_5

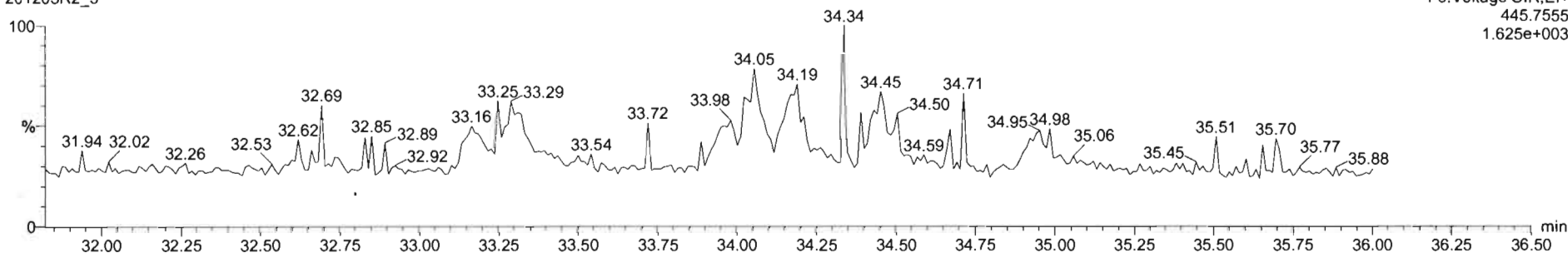


201203R2_5



DPE3

201203R2_5

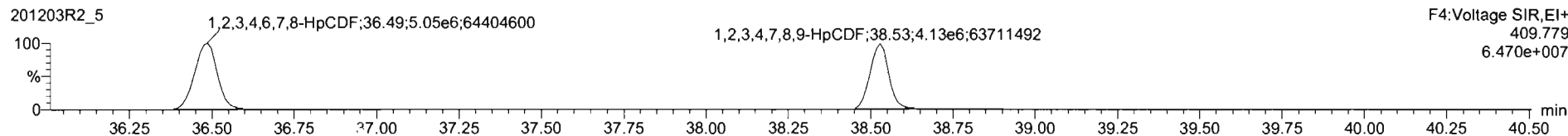
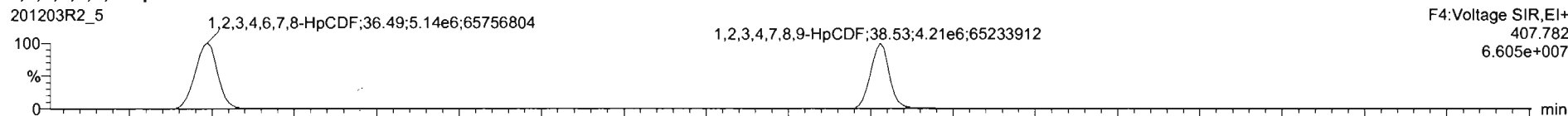


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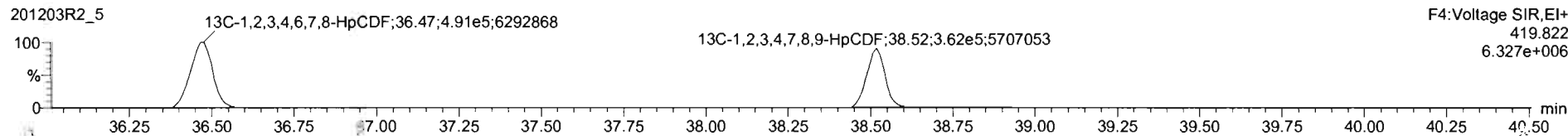
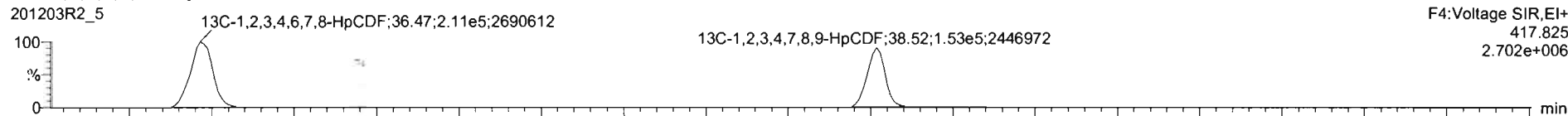
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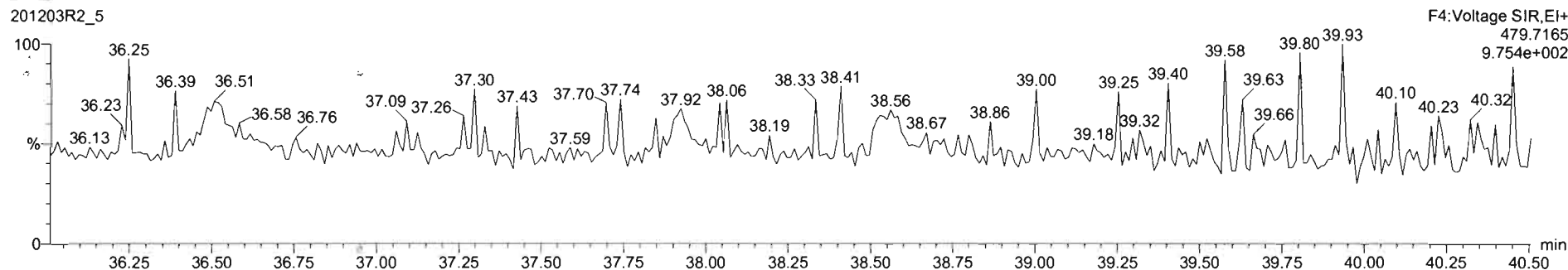
1,2,3,4,6,7,8-HpCDF



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



DPE4



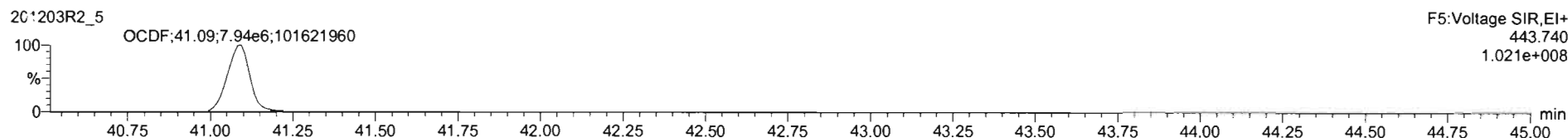
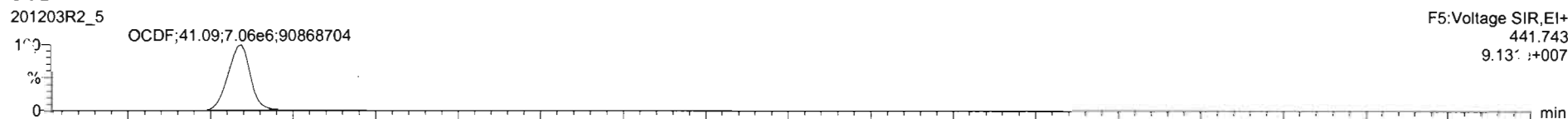
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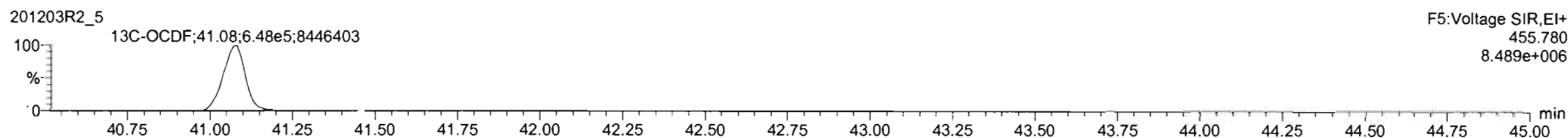
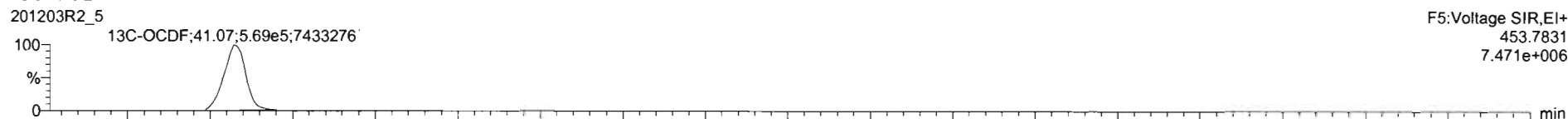
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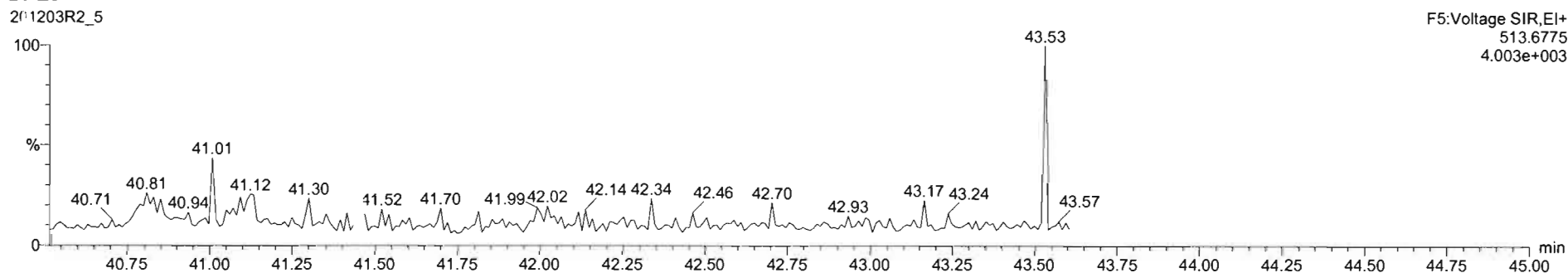
OCDF



13C-OCDF



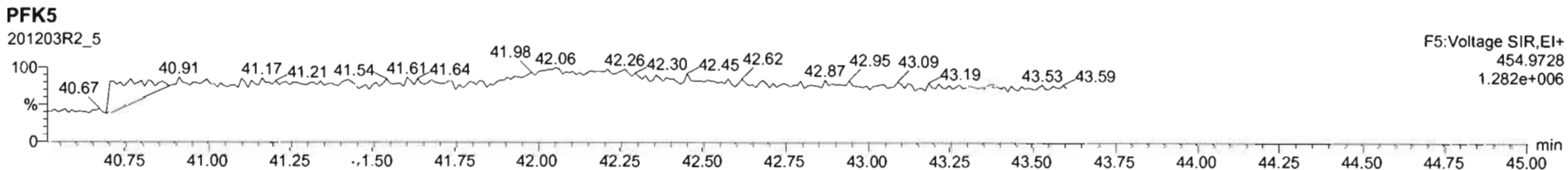
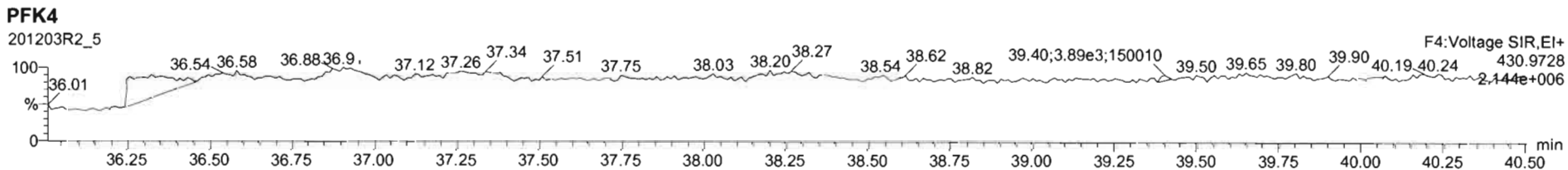
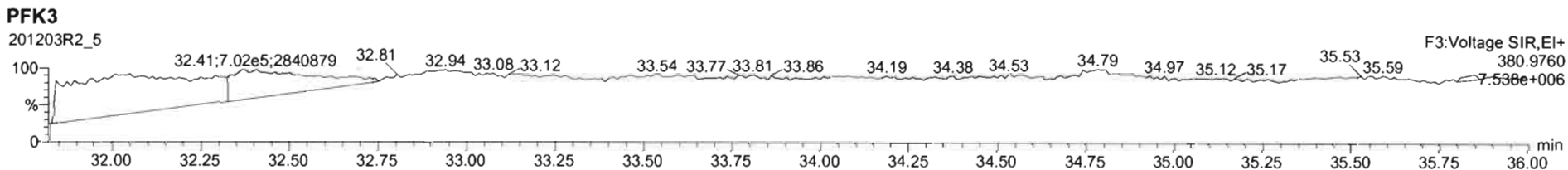
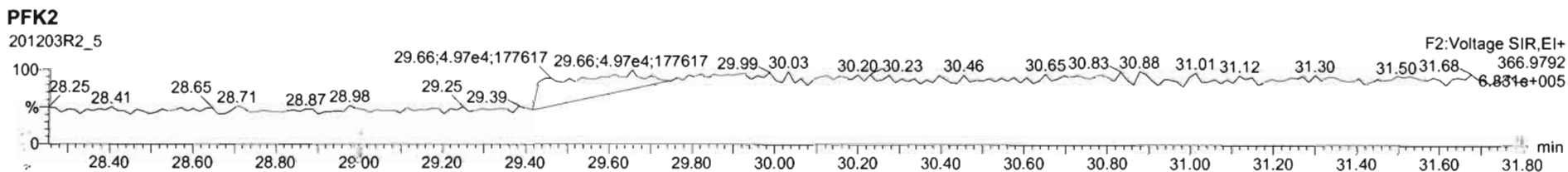
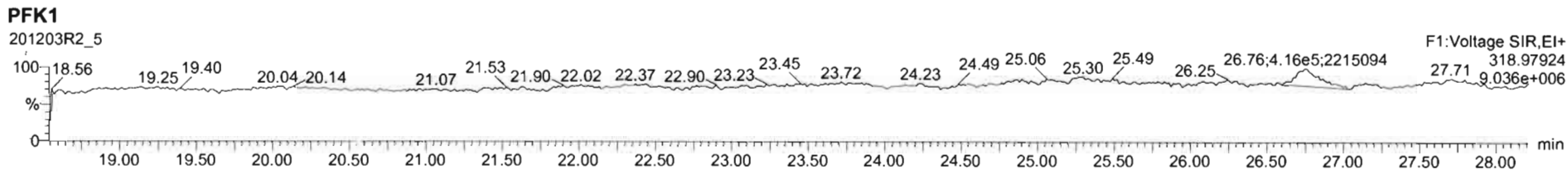
DPE5



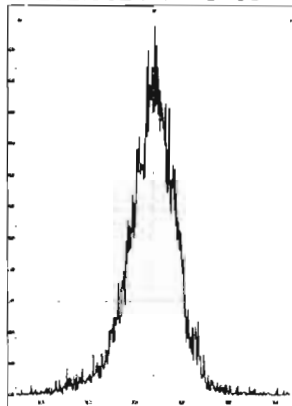
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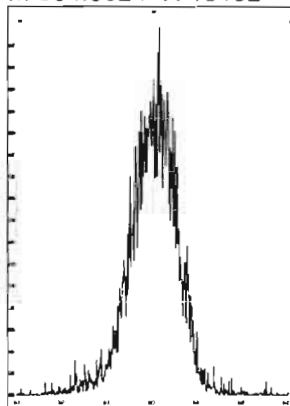
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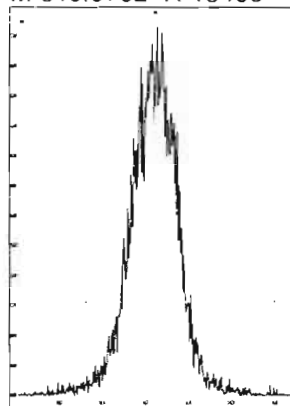
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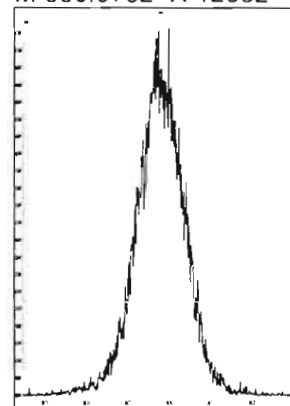
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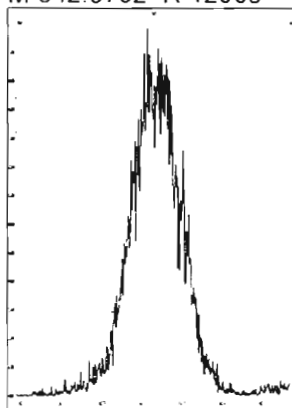
M 318.9792 R 13406



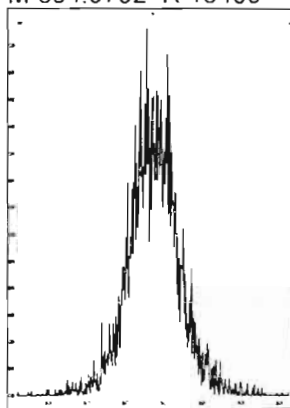
M 330.9792 R 12562



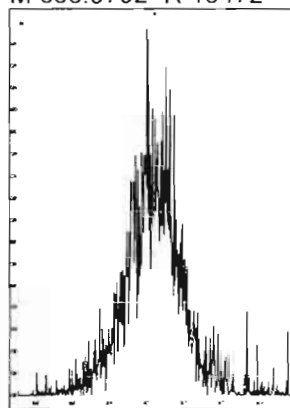
M 342.9792 R 12005



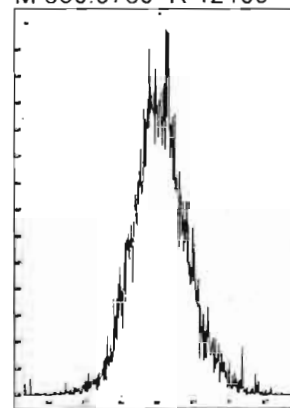
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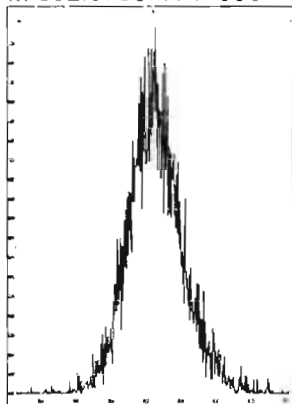
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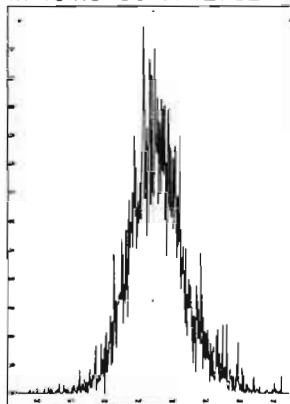
M 380.9760 R 12109



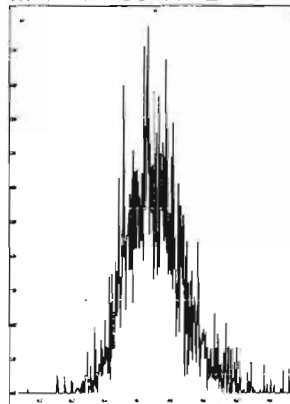
M 392.9760 R 11990



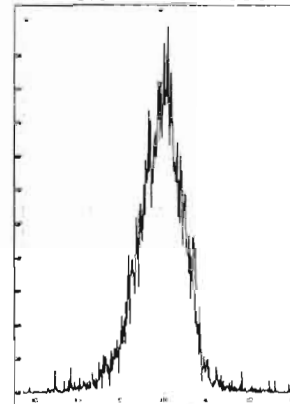
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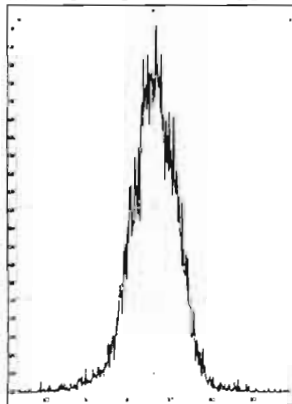
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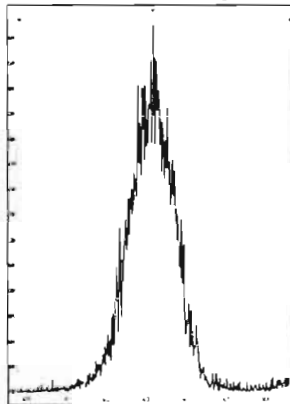
M 318.9792 R 14098



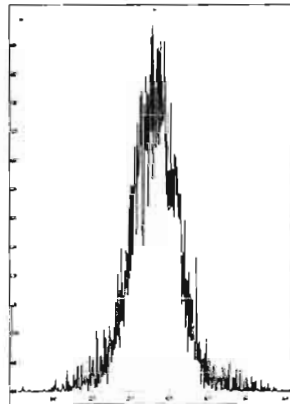
M 330.9792 R 13785



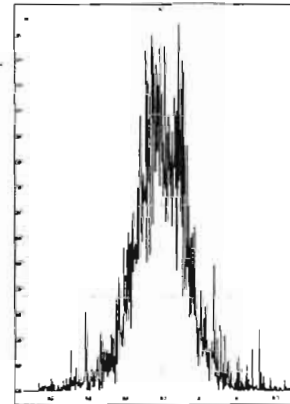
M 342.9792 R 12872



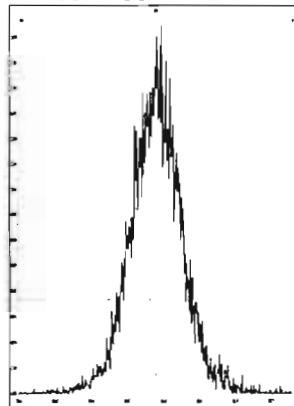
M 354.9792 R 14296



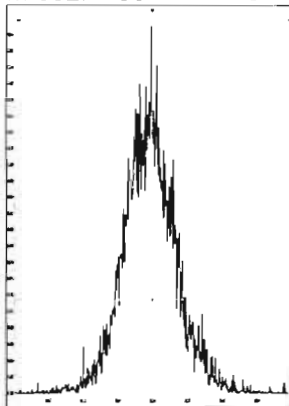
M 366.9792 R 14931



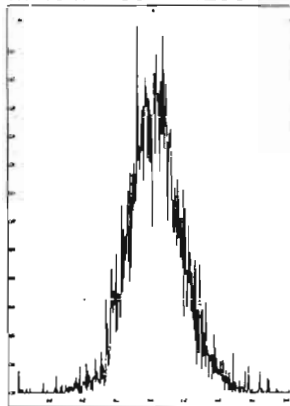
M 380.9760 R 12177



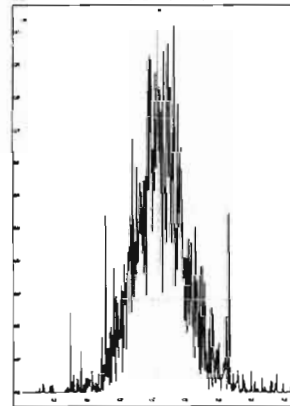
M 392.9760 R 11966



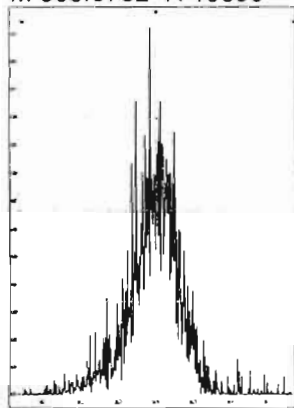
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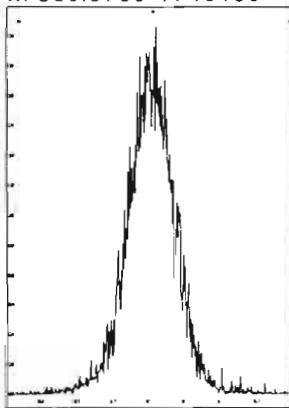
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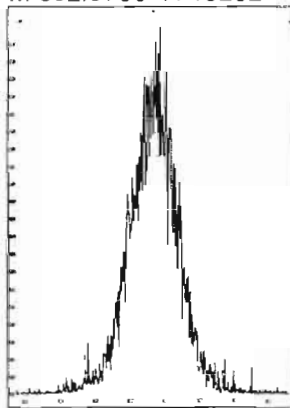
M 366.9792 R 16388



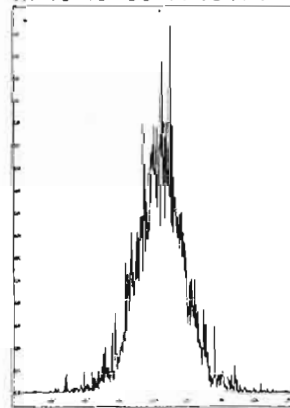
M 380.9760 R 13160



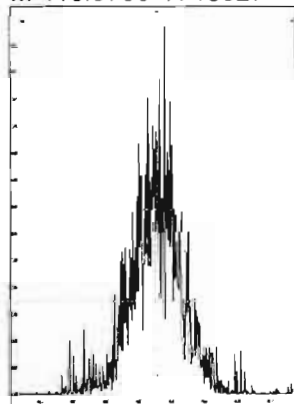
M 392.9760 R 13262



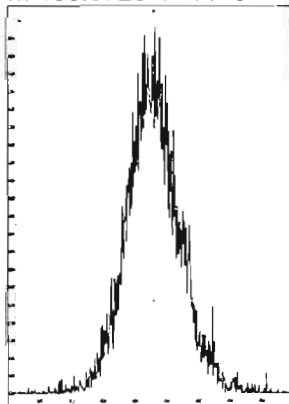
M 404.9760 R 13171



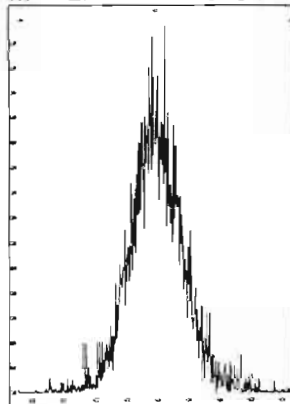
M 416.9760 R 13927



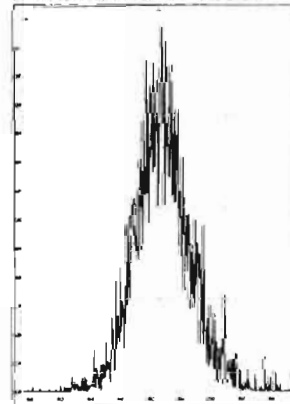
M 430.9728 R 11907



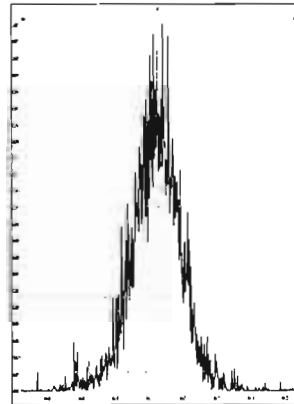
M 442.9728 R 13262



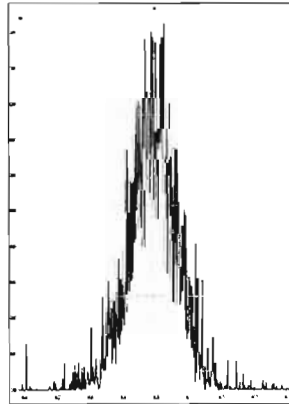
M 454.9728 R 12953



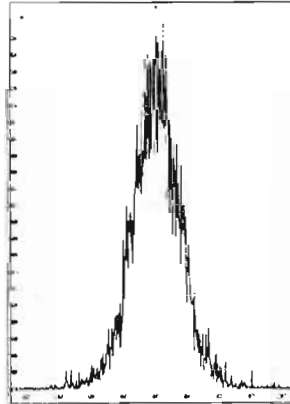
M 404.9760 R 14759



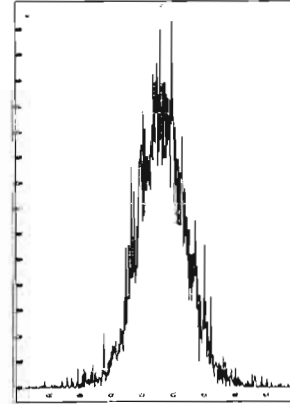
M 416.9760 R 15712



M 430.9728 R 13311

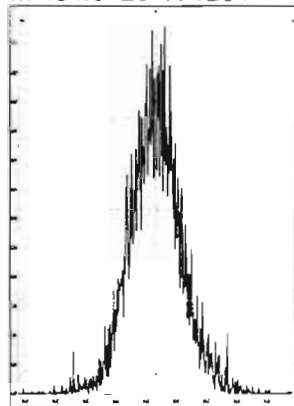


M 442.9728 R 13454

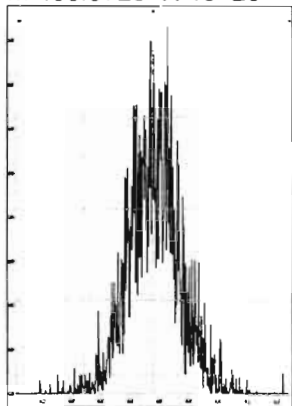


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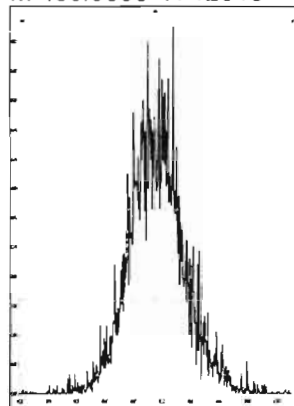
M 454.9728 R 12347



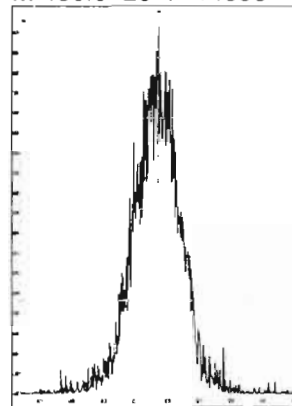
M 466.9728 R 15126



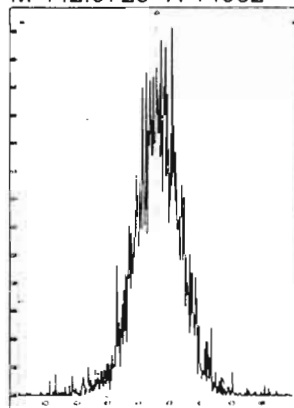
M 480.9696 R 12613



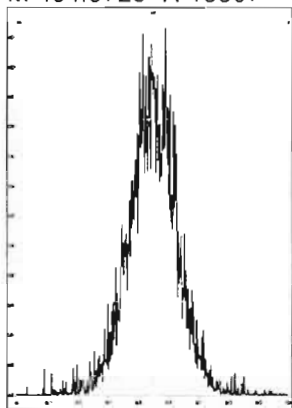
M 430.9728 R 14353



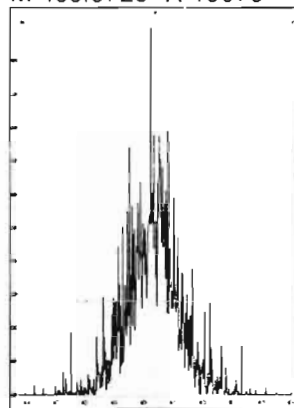
M 442.9728 R 14532



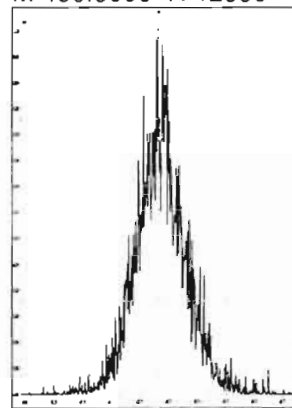
M 454.9728 R 13307



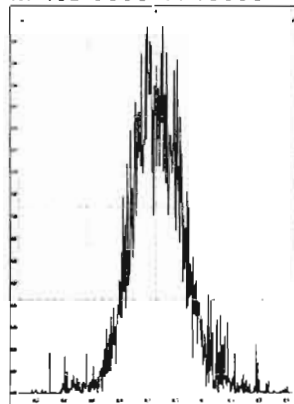
M 466.9728 R 15079



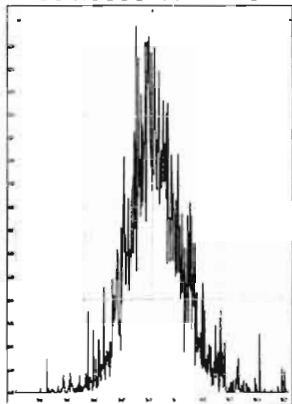
M 480.9696 R 12596



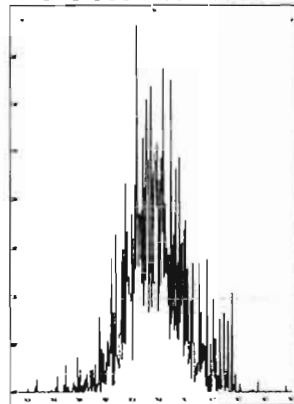
M 492.9696 R 13058



M 504.9696 R 12886



M 516.9697 R 14159



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_8.qld

Last Altered: Friday, December 04, 2020 11:51:09 Pacific Standard Time

Printed: Friday, December 04, 2020 11:57:34 Pacific Standard Time

HN 12/04/2020

GRB 12/08/2020

Method: U:\VG12.PRO\MethDB\1613rrt-11-11-20.mdb 12 Nov 2020 07:51:39

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201203R2_8, Date: 03-Dec-2020, Time: 16:09:07, ID: SS201203R2_1 1613 SSS 20K1907, Description: 1613 SSS 20K1907

#	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	8.12e4	0.75	NO	0.980	1.000	26.008	26.01	1.001	1.001	11.221	112	0.0338	11.2
2	2 1,2,3,7,8-PeCDD	2.78e5	0.63	NO	0.932	1.000	30.751	30.76	1.000	1.000	57.143	114	0.109	57.1
3	3 1,2,3,4,7,8-HxCDD	2.27e5	1.26	NO	1.02	1.000	34.053	34.05	1.000	1.000	57.544	115	0.126	57.5
4	4 1,2,3,6,7,8-HxCDD	2.58e5	1.25	NO	0.902	1.000	34.168	34.18	1.000	1.001	62.459	125	0.119	62.5
5	5 1,2,3,7,8,9-HxCDD	2.43e5	1.27	NO	0.954	1.000	34.440	34.45	1.000	1.001	58.002	116	0.129	58.0
6	6 1,2,3,4,6,7,8-HpCDD	1.75e5	1.04	NO	0.918	1.000	37.902	37.91	1.000	1.000	54.920	110	0.206	54.9
7	7 OCDD	3.13e5	0.90	NO	0.866	1.000	40.810	40.81	1.000	1.000	123.69	124	0.226	124
8	8 2,3,7,8-TCDF	1.01e5	0.74	NO	0.848	1.000	25.292	25.30	1.000	1.001	10.949	109	0.0323	10.9
9	9 1,2,3,7,8-PeCDF	4.31e5	1.59	NO	0.960	1.000	29.485	29.49	1.000	1.001	55.891	112	0.145	55.9
10	10 2,3,4,7,8-PeCDF	5.03e5	1.62	NO	1.07	1.000	30.546	30.56	1.000	1.000	61.255	123	0.126	61.3
11	11 1,2,3,4,7,8-HxCDF	3.21e5	1.24	NO	0.986	1.000	33.153	33.16	1.000	1.000	61.557	123	0.127	61.6
12	12 1,2,3,6,7,8-HxCDF	3.50e5	1.24	NO	1.04	1.000	33.278	33.30	1.000	1.001	58.959	118	0.121	59.0
13	13 2,3,4,6,7,8-HxCDF	3.27e5	1.24	NO	1.02	1.000	33.941	33.95	1.000	1.000	61.252	123	0.143	61.3
14	14 1,2,3,7,8,9-HxCDF	2.66e5	1.23	NO	0.991	1.000	34.922	34.94	1.000	1.001	57.127	114	0.209	57.1
15	15 1,2,3,4,6,7,8-HpCDF	2.70e5	1.01	NO	1.05	1.000	36.490	36.50	1.000	1.000	60.349	121	0.233	60.3
16	16 1,2,3,4,7,8,9-HpCDF	1.98e5	1.01	NO	1.18	1.000	38.528	38.54	1.000	1.000	57.224	114	0.262	57.2
17	17 OCDF	3.54e5	0.90	NO	0.896	1.000	41.100	41.10	1.000	1.000	118.85	119	0.359	119
18	18 13C-2,3,7,8-TCDD	7.38e5	0.78	NO	1.06	1.000	25.952	25.98	1.030	1.031	101.50	102	0.148	
19	19 13C-1,2,3,7,8-PeCDD	5.22e5	0.62	NO	0.785	1.000	30.648	30.74	1.216	1.220	96.571	96.6	0.135	
20	20 13C-1,2,3,4,7,8-HxCDD	3.87e5	1.28	NO	0.621	1.000	34.048	34.04	1.014	1.014	103.46	103	0.285	
21	21 13C-1,2,3,6,7,8-HxCDD	4.58e5	1.29	NO	0.734	1.000	34.186	34.16	1.018	1.017	103.62	104	0.241	
22	22 13C-1,2,3,7,8,9-HxCDD	4.38e5	1.28	NO	0.723	1.000	34.428	34.43	1.025	1.025	100.66	101	0.245	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.48e5	1.06	NO	0.568	1.000	37.904	37.90	1.129	1.129	101.76	102	0.392	
24	24 13C-OCDD	5.85e5	0.90	NO	0.496	1.000	40.862	40.81	1.217	1.215	195.89	97.9	0.404	
25	25 13C-2,3,7,8-TCDF	1.08e6	0.78	NO	0.919	1.000	25.276	25.28	1.003	1.004	103.53	104	0.146	
26	26 13C-1,2,3,7,8-PeCDF	8.04e5	1.61	NO	0.715	1.000	29.386	29.48	1.166	1.170	98.865	98.9	0.247	
27	27 13C-2,3,4,7,8-PeCDF	7.69e5	1.59	NO	0.689	1.000	30.439	30.55	1.208	1.212	98.136	98.1	0.256	
28	28 13C-1,2,3,4,7,8-HxCDF	5.30e5	0.51	NO	0.873	1.000	33.142	33.15	0.987	0.987	100.67	101	0.314	
29	29 13C-1,2,3,6,7,8-HxCDF	5.72e5	0.51	NO	0.933	1.000	33.273	33.28	0.991	0.991	101.77	102	0.294	
30	30 13C-2,3,4,6,7,8-HxCDF	5.23e5	0.51	NO	0.843	1.000	33.941	33.94	1.011	1.011	102.97	103	0.326	
31	31 13C-1,2,3,7,8,9-HxCDF	4.69e5	0.51	NO	0.780	1.000	34.935	34.92	1.040	1.040	99.930	99.9	0.352	

Dataset: U:\VG12.PRO\Results\201203R2\201203R2_8.qld

Last Altered: Friday, December 04, 2020 11:51:09 Pacific Standard Time

Printed: Friday, December 04, 2020 11:57:34 Pacific Standard Time

Name: 201203R2_8, Date: 03-Dec-2020, Time: 16:09:07, ID: SS201203R2_1 1613 SSS 20K1907, Description: 1613 SSS 20K1907

	# 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	4.26e5	0.42	NO	0.726	1.000	36.500	36.49	1.087	1.086	97.268	97.3	0.265	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.94e5	0.42	NO	0.491	1.000	38.532	38.53	1.147	1.147	99.221	99.2	0.391	
34	34 13C-OCDF	6.65e5	0.87	NO	0.565	1.000	41.144	41.09	1.225	1.224	195.35	97.7	0.348	
35	35 37Cl-2,3,7,8-TCDD	9.13e4			1.22	1.000	25.952	25.99	1.030	1.032	10.891	109	0.0217	
36	36 13C-1,2,3,4-TCDD	6.89e5	0.77	NO	1.00	1.000	25.370	25.20	1.000	1.000	100.00	100	0.157	
37	37 13C-1,2,3,4-TCDF	1.14e6	0.78	NO	1.00	1.000	23.870	23.67	1.000	1.000	100.00	100	0.134	
38	38 13C-1,2,3,4,6,9-HxCDF	6.02e5	0.51	NO	1.00	1.000	33.710	33.58	1.000	1.000	100.00	100	0.274	

Dataset: U:\VG12.PRO\Results\201203R2\201203R2_8.qld

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Printed: Friday, December 04, 2020 11:48:25 Pacific Standard Time

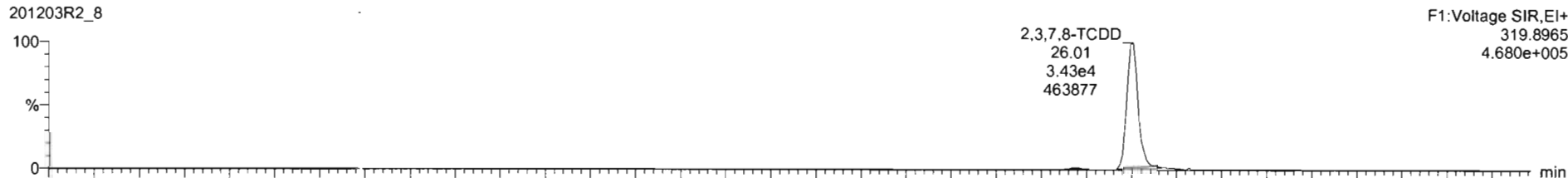
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Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

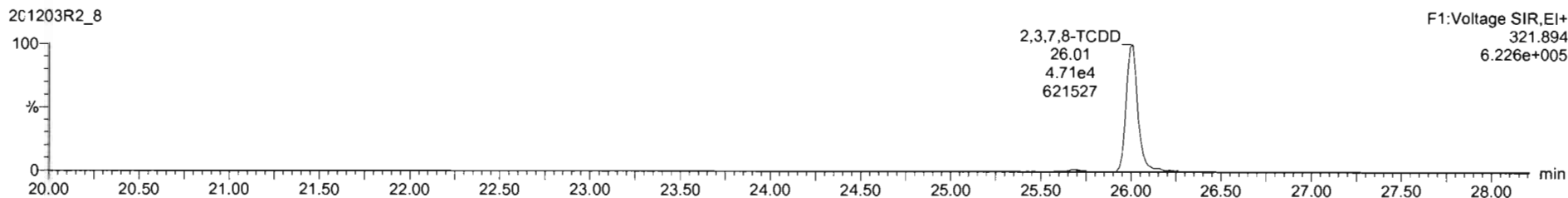
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2,3,7,8-TCDD

201203R2_8

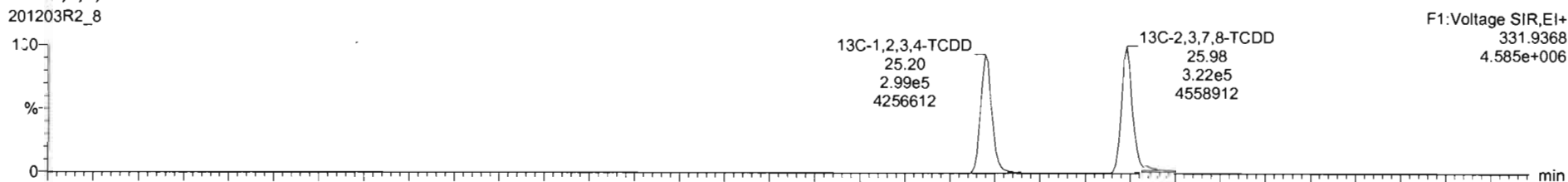


201203R2_8

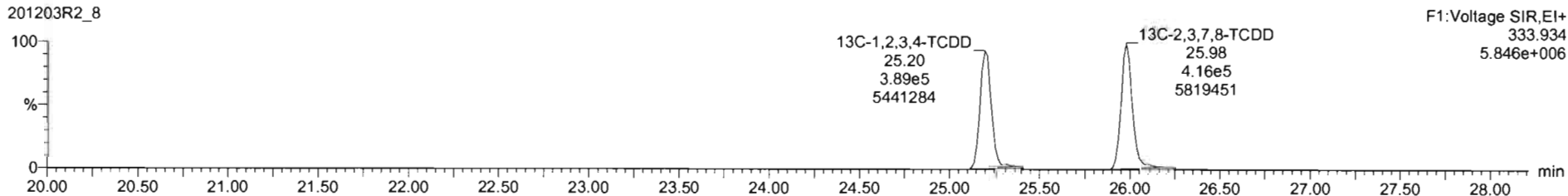


13C-2,3,7,8-TCDD

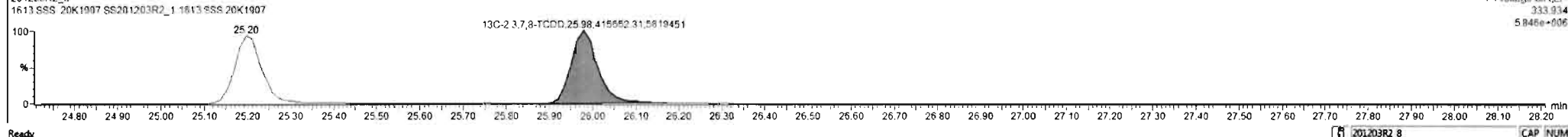
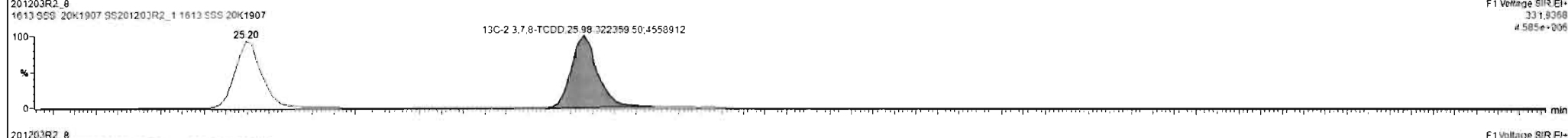
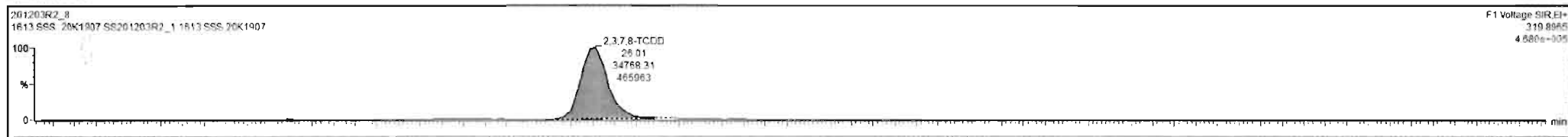
201203R2_8



201203R2_8



#	Name	Resp	RA	dy	RRF	wt/wt	R ²	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	8.12e4	0.75	NO	0.9805	1.000	26.01	1.001	11.2	112	0.0338	11.2
2	1,2,3,7,8-PeCDD	2.78e5	0.63	NO	0.9320	1.000	30.76	1.000	57.1	114	0.109	57.1
3	1,2,3,4,7,8-HxCDD	2.27e5	1.26	NO	1.0203	1.000	34.05	1.000	57.5	115	0.126	57.5
4	1,2,3,6,7,8-HxCDD	2.58e5	1.25	NO	0.9025	1.000	34.18	1.001	62.5	125	0.119	62.5
5	1,2,3,7,8-HxCDD	2.43e5	1.27	NO	0.9542	1.000	34.95	1.001	58.0	116	0.129	58.0
6	1,2,3,4,6,8-HpCDD	1.75e5	1.04	NO	0.9150	1.000	37.91	1.000	54.9	110	0.208	54.9
7	OCDD	3.13e5	0.90	NO	0.8658	1.000	40.81	1.000	124	124	0.226	124
8	2,3,7,8-TCDF	1.01e5	0.74	NO	0.8480	1.000	25.20	1.001	10.9	109	0.0323	10.9
9	1,2,3,7,8-PeCDF	4.31e5	1.59	NO	0.9597	1.000	29.49	1.001	55.9	112	0.145	55.9
10	2,3,4,7,8-PeCDF	5.03e5	1.62	NO	1.0671	1.000	30.56	1.000	61.3	123	0.126	61.3
11	1,2,3,4,7,8-HxCDF	3.21e5	1.24	NO	0.9859	1.000	33.16	1.000	61.6	123	0.127	61.6
12	1,2,3,6,7,8-HxCDF	3.50e5	1.24	NO	1.0388	1.000	33.20	1.001	59.0	118	0.121	59.0
13	2,3,4,6,7,8-HxCDF	3.27e5	1.24	NO	1.0202	1.000	33.95	1.000	61.3	123	0.143	61.3
14	1,2,3,7,8-HxCDF	2.86e5	1.23	NO	0.9909	1.000	34.94	1.001	57.1	114	0.209	57.1



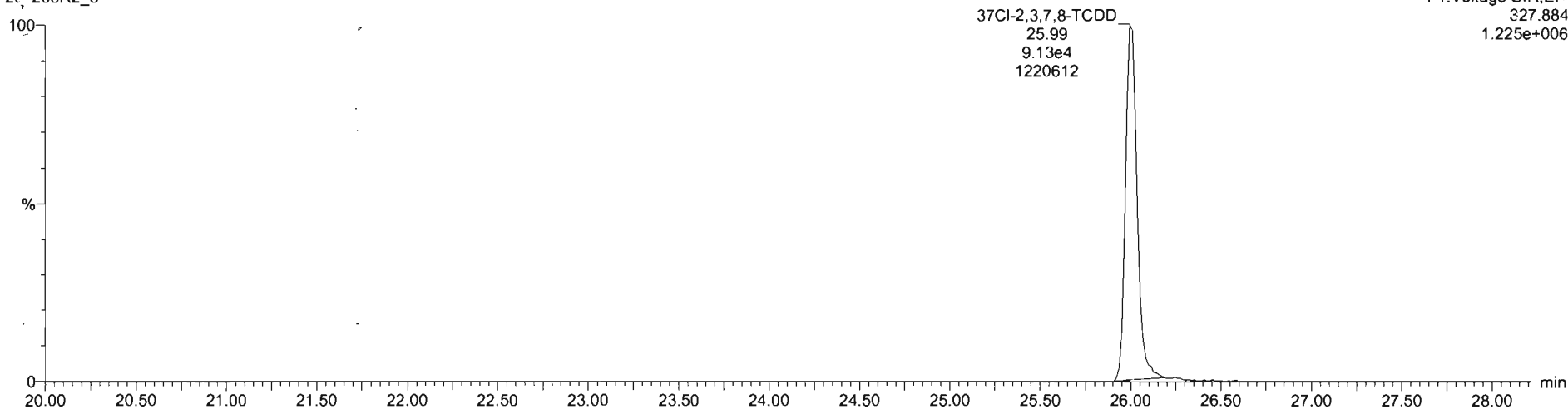
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Last Altered: Friday, December 04, 2020 11:47:08 Pacific Standard Time
Printed: Friday, December 04, 2020 11:48:25 Pacific Standard Time

Name: 201203R2_8, Date: 03-Dec-2020, Time: 16:09:07, ID: SS201203R2_1 1613 SSS 20K1907, Description: 1613 SSS 20K1907

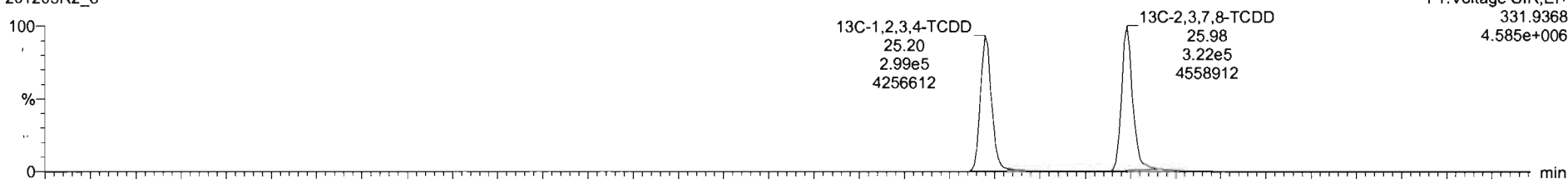
37Cl-2,3,7,8-TCDD

201203R2_8

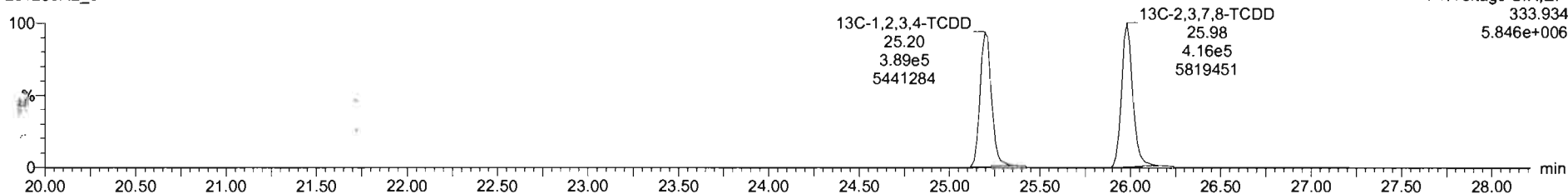


13C-1,2,3,4-TCDD

201203R2_8



201203R2_8



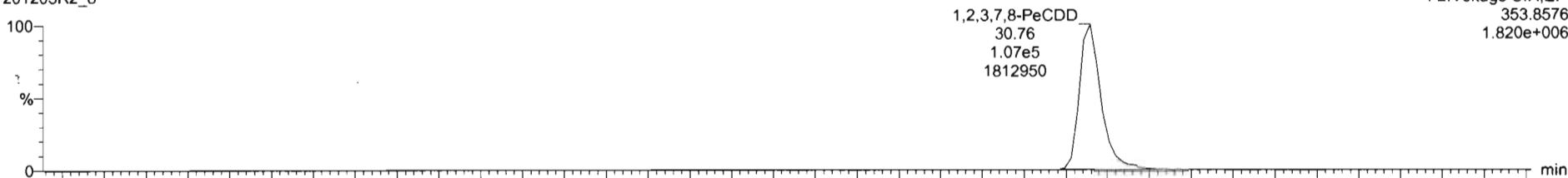
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Last Altered: Friday, December 04, 2020 11:47:08 Pacific Standard Time
Printed: Friday, December 04, 2020 11:48:25 Pacific Standard Time

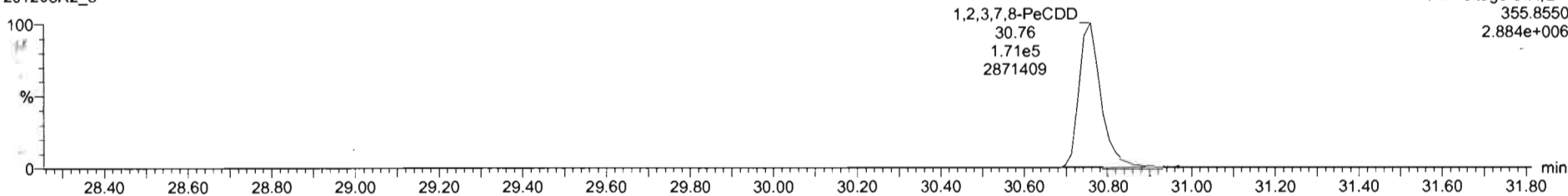
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1,2,3,7,8-PeCDD

201203R2_8

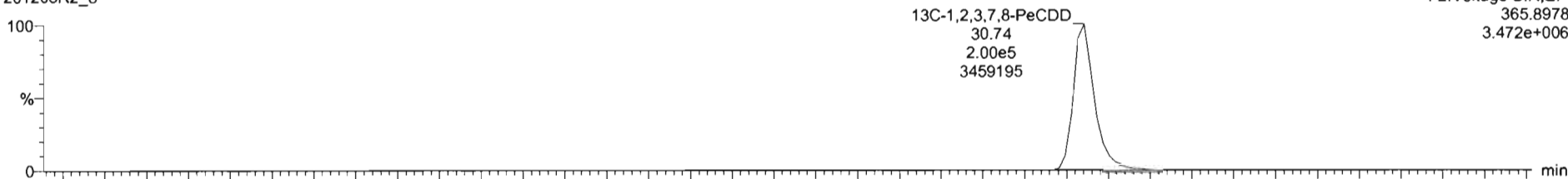


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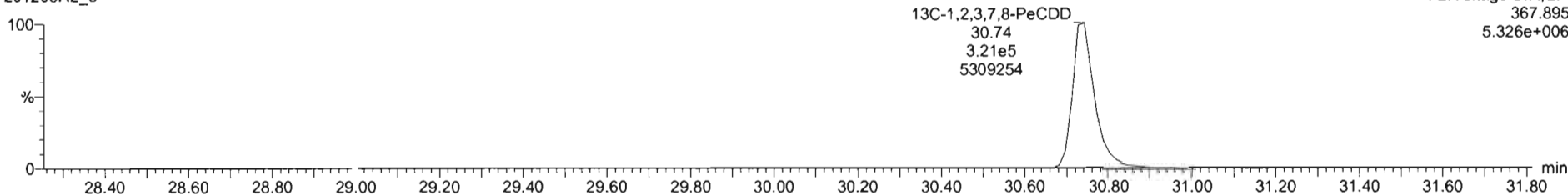


13C-1,2,3,7,8-PeCDD

201203R2_8



201203R2_8



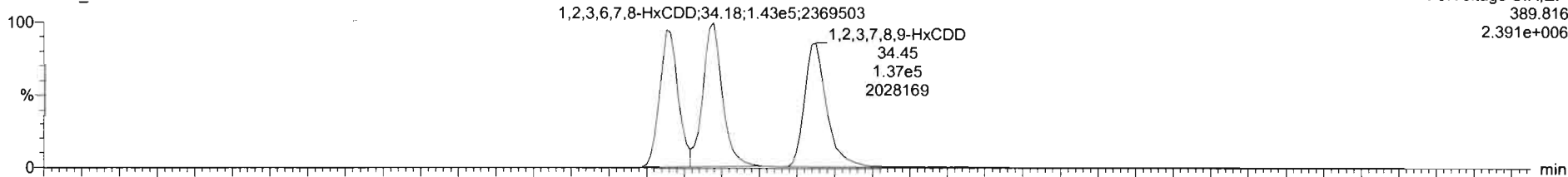
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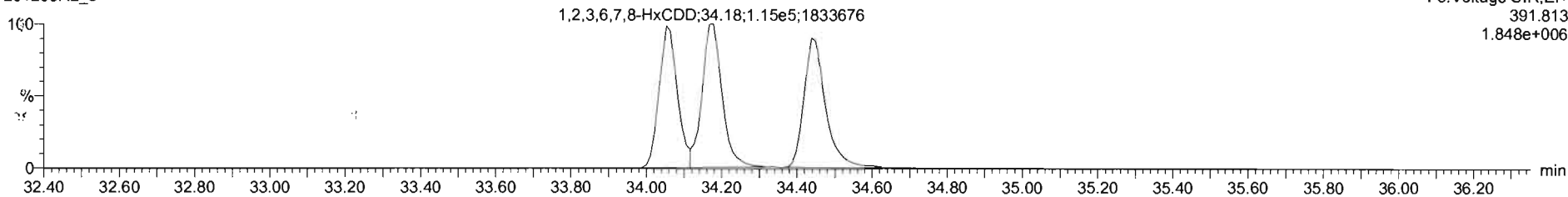
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1,2,3,4,7,8-HxCDD

201203R2_8

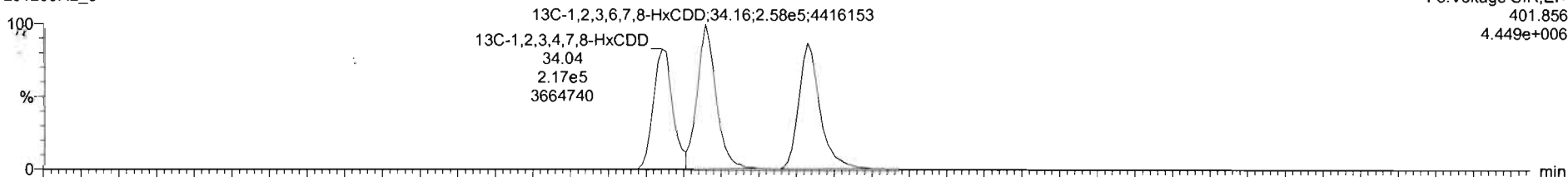


201203R2_8

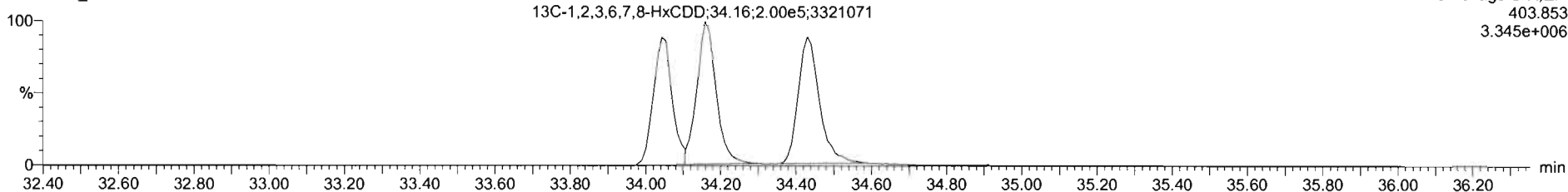


13C-1,2,3,4,7,8-HxCDD

201203R2_8

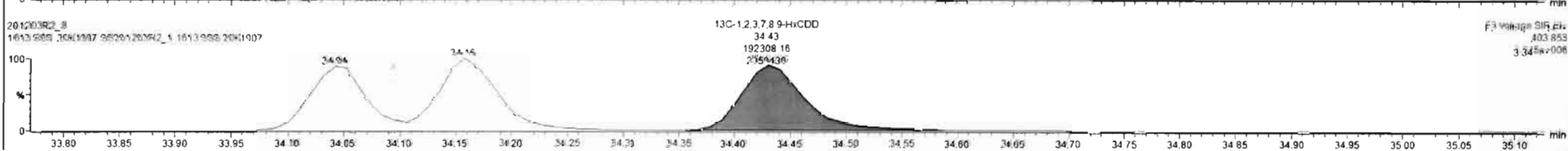
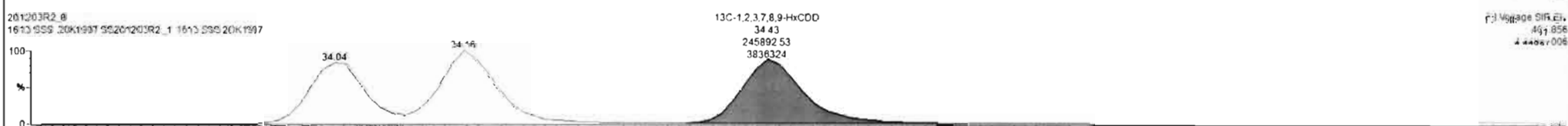
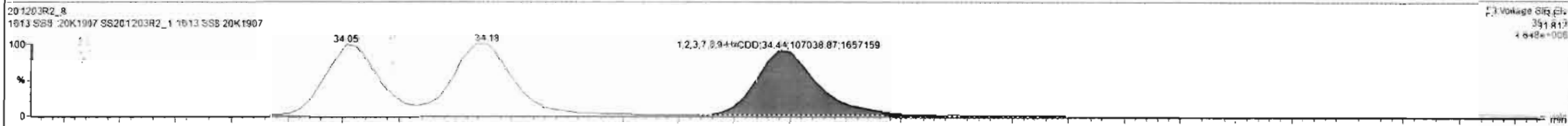
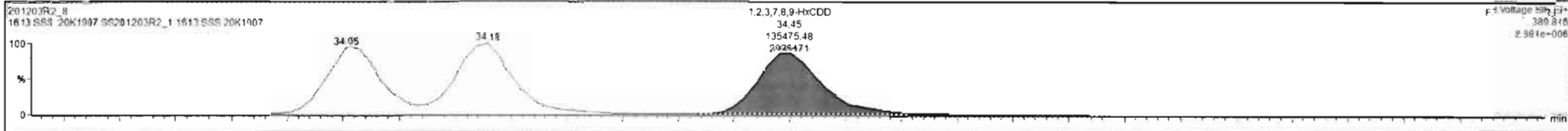


201203R2_8



201203R2_8 - SS201203R2_1 1613 SSS 20K1907 - 1613 SSS 20K1907

#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	8.12e4	0.75	NO	0.9605	1.000	26.01	1.001	11.2	112	0.0338	11.2
2	1,2,3,7,8-PeCDD	2.78e5	0.63	NO	0.9320	1.000	30.76	1.000	57.1	114	0.109	57.1
3	1,2,3,4,7,8-HxCDD	2.27e5	1.28	NO	1.0203	1.000	34.05	1.000	57.5	115	0.126	57.5
4	1,2,3,6,7,8-HxCDD	2.58e5	1.25	NO	0.9025	1.000	34.18	1.001	62.5	125	0.119	62.5
5	1,2,3,7,8,9-HxCDD	2.43e5	1.27	NO	0.9542	1.000	34.45	1.001	58.0	116	0.129	58.0
6	1,2,3,4,6,7,8-HxCDD	1.75e5	1.04	NO	0.9180	1.000	37.91	1.000	54.9	110	0.200	54.9
7	OCDD	3.13e5	0.90	NO	0.8658	1.000	40.51	1.000	124	124	0.226	124
8	2,3,7,8-TCDF	1.01e5	0.74	NO	0.8480	1.000	25.20	1.001	10.9	109	0.0323	10.9
9	1,2,3,7,8-aCDF	4.31e5	1.59	NO	0.9597	1.000	29.49	1.001	55.9	112	0.145	55.9
10	2,3,4,7,8-PeCDF	5.03e5	1.62	NO	1.0671	1.000	30.16	1.000	61.3	123	0.126	61.3
11	1,2,3,4,7,8-HxCDF	3.21e5	1.24	NO	0.9859	1.000	33.16	1.000	61.6	123	0.127	61.6
12	1,2,3,6,7,8-HxCDF	3.50e5	1.24	NO	1.0368	1.000	33.20	1.001	59.0	116	0.121	59.0
13	2,3,4,6,7,8-HxCDF	3.27e5	1.24	NO	1.0292	1.000	33.95	1.000	61.3	123	0.143	61.3
14	1,2,3,7,8,9-HxCDF	2.86e5	1.23	NO	0.9909	1.000	34.04	1.001	57.1	114	0.209	57.1



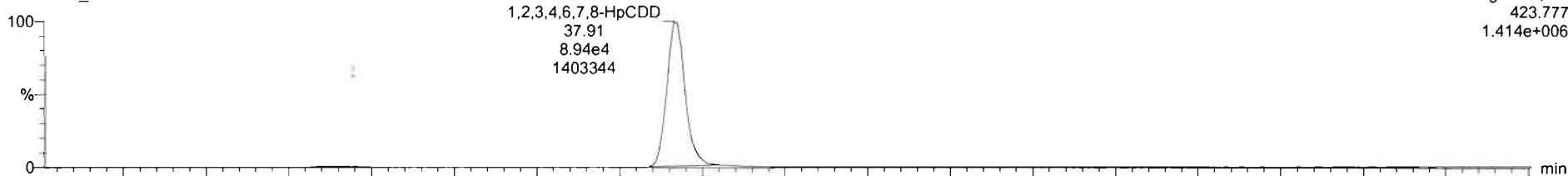
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Last Altered: Friday, December 04, 2020 11:47:08 Pacific Standard Time
Printed: Friday, December 04, 2020 11:48:25 Pacific Standard Time

Name: 201203R2_8, Date: 03-Dec-2020, Time: 16:09:07, ID: SS201203R2_1 1613 SSS 20K1907, Description: 1613 SSS 20K1907

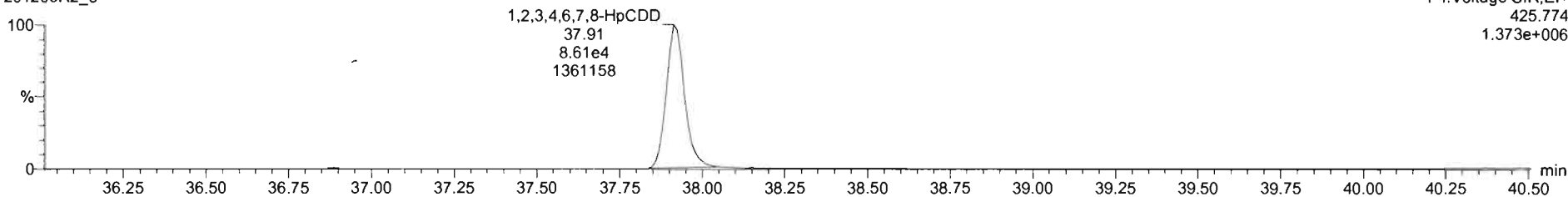
1,2,3,4,6,7,8-HpCDD

201203R2_8



F4: Voltage SIR, EI+
423.777
1.414e+006

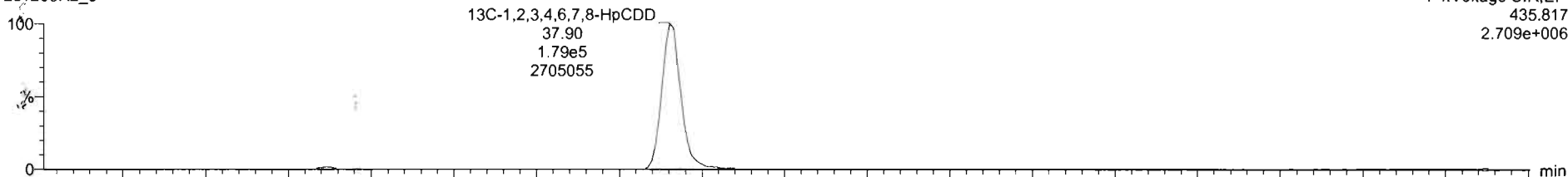
201203R2_8



F4: Voltage SIR, EI+
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1.373e+006

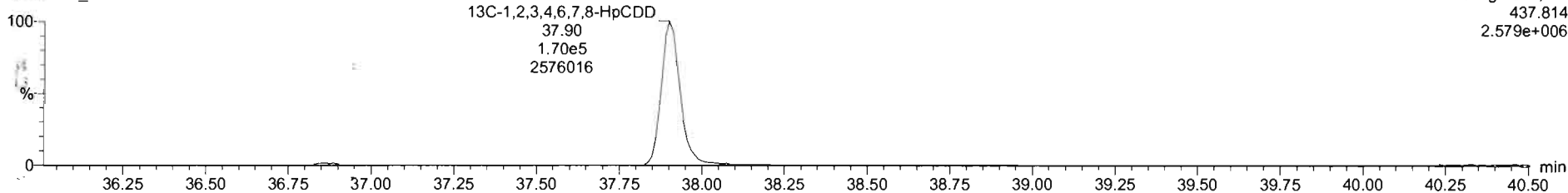
13C-1,2,3,4,6,7,8-HpCDD

201203R2_8



F4: Voltage SIR, EI+
435.817
2.709e+006

201203R2_8



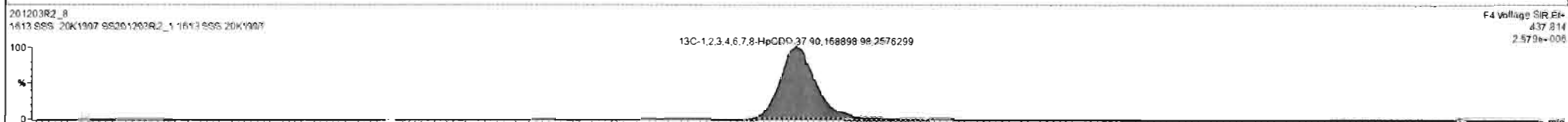
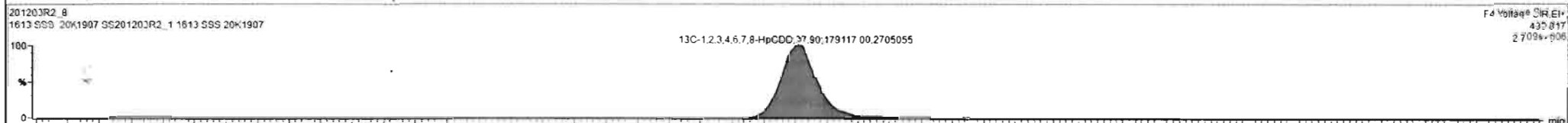
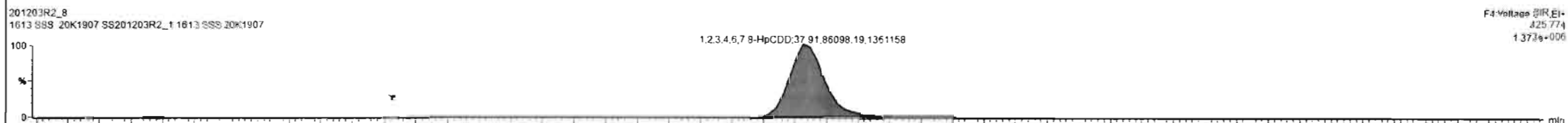
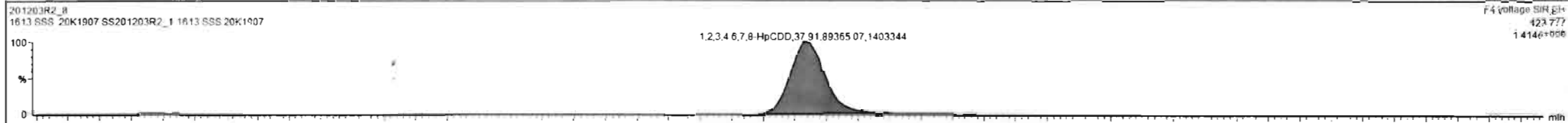
F4: Voltage SIR, EI+
437.814
2.579e+006

TargetLynx - 201203R2_8.lqd - [Chromatogram]

File Edit View Display Processing Window Help

201203R2_8 - SS201203R2_1 1613 SSS 20K1907 - 1613 SSS 20K1907

Name	Resp	RA	aly	RRF	wt/vol	R	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	8.12e4	0.75	NO	0.9605	1.000	26.01	1.001	11.2	112	0.0238	11.2
2 1,2,3,7,8-HxCDD	2.78e5	0.63	NO	0.9320	1.000	30.76	1.000	57.1	114	0.109	57.1
3 1,2,3,4,7,8-HxCDD	2.27e5	1.26	NO	1.0203	1.000	34.05	1.000	57.5	115	0.126	57.5
4 1,2,3,6,7,8-HxCDD	2.58e5	1.25	NO	0.9025	1.000	34.18	1.001	62.5	125	0.119	62.5
5 1,2,3,7,8,9-HxCDD	2.43e5	1.27	NO	0.9542	1.000	34.45	1.001	58.0	116	0.129	58.0
6 1,2,3,4,6,7,8-HpCDD	1.75e5	1.04	NO	0.9180	1.000	37.91	1.000	54.9	110	0.206	54.9
7 OCDD	3.13e5	0.90	NO	0.8658	1.000	40.01	1.000	124	124	0.226	124
8 2,3,7,8-TCDF	1.01e5	0.74	NO	0.8480	1.000	25.30	1.001	10.9	109	0.0223	10.9
9 1,2,3,7,8-PeCDF	4.31e5	1.59	NO	0.9597	1.000	29.49	1.001	55.9	112	0.145	55.9
10 2,3,4,7,8-PeCDF	5.03e5	1.62	NO	1.0671	1.000	30.56	1.000	61.3	123	0.126	61.3
11 1,2,3,4,7,8-HxCDF	3.21e5	1.24	NO	0.9859	1.000	33.16	1.000	61.6	123	0.127	61.6
12 1,2,3,6,7,8-HxCDF	3.50e5	1.24	NO	1.0366	1.000	33.30	1.001	59.0	118	0.121	59.0
13 2,3,4,6,7,8-HxCDF	3.27e5	1.24	NO	1.0202	1.000	33.95	1.000	61.3	123	0.142	61.3
14 1,2,3,7,8,9-HxCDF	2.66e5	1.22	NO	0.9909	1.000	34.94	1.001	56.8	114	0.208	56.8



Repts: 201203R2_8 CAP NUM

Dataset: U:\VG12.PRO\Results\201203R2\201203R2_8.qld

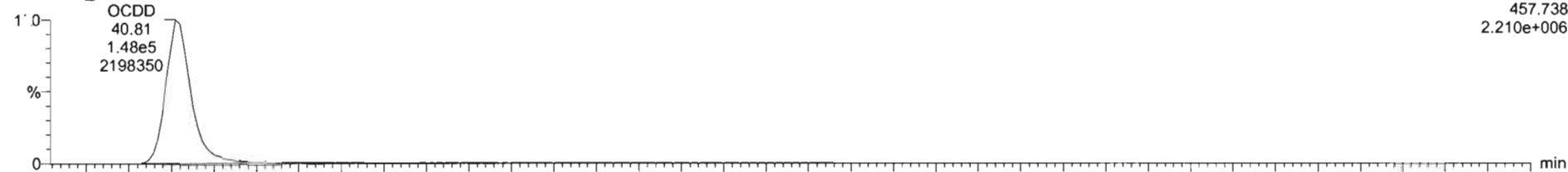
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Printed: Friday, December 04, 2020 11:48:25 Pacific Standard Time

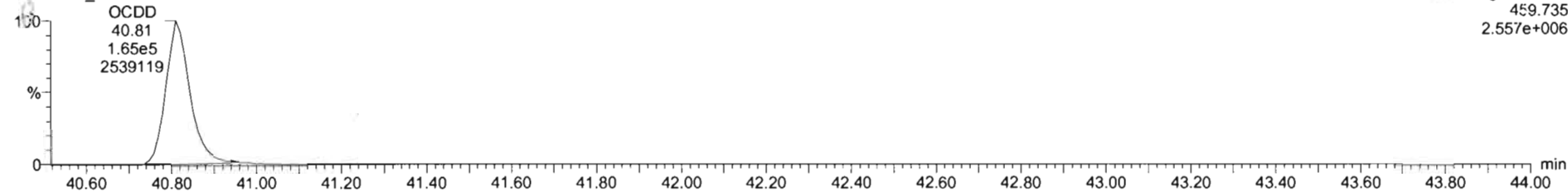
Name: 201203R2_8, Date: 03-Dec-2020, Time: 16:09:07, ID: SS201203R2_1 1613 SSS 20K1907, Description: 1613 SSS 20K1907

OCDD

201203R2_8

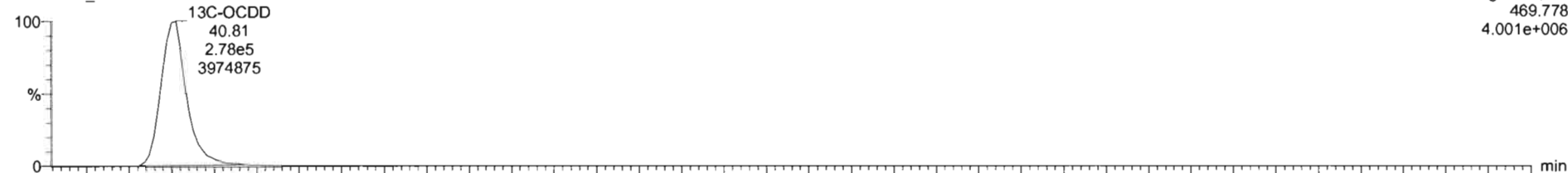


201203R2_8

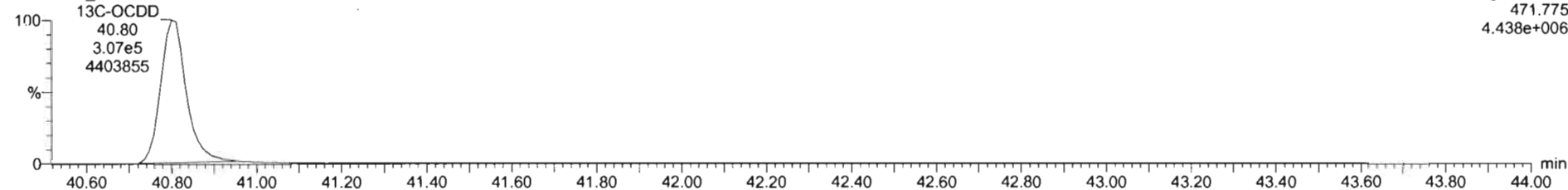


13C-OCDD

201203R2_8



201203R2_8



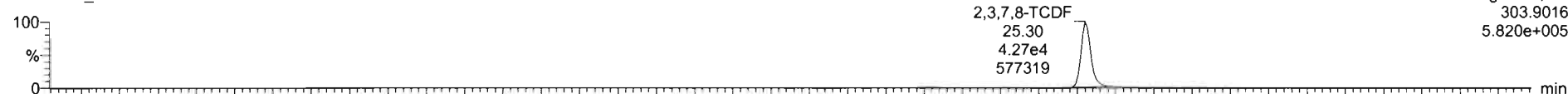
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Last Altered: Friday, December 04, 2020 11:47:08 Pacific Standard Time
Printed: Friday, December 04, 2020 11:48:25 Pacific Standard Time

Name: 201203R2_8, Date: 03-Dec-2020, Time: 16:09:07, ID: SS201203R2_1 1613 SSS 20K1907, Description: 1613 SSS 20K1907

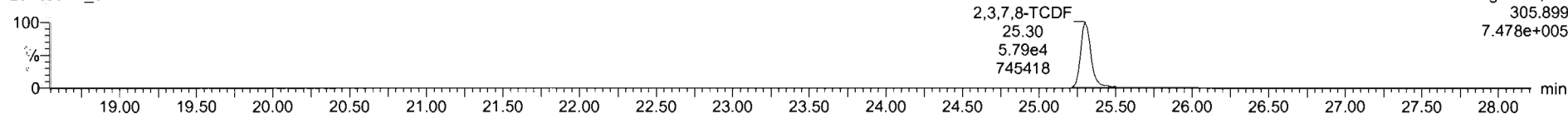
2,3,7,8-TCDF

201203R2_8



F1:Voltage SIR,EI+
303.9016
5.820e+005

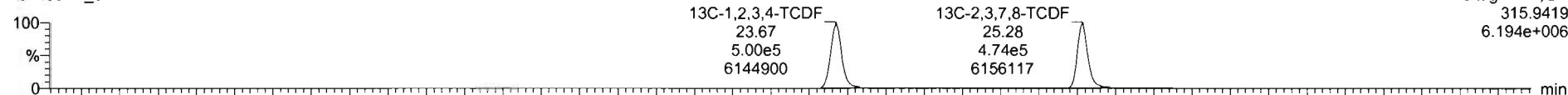
201203R2_8



F1:Voltage SIR,EI+
305.899
7.478e+005

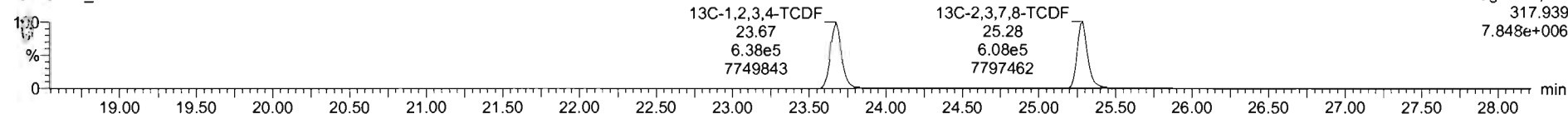
¹³C-2,3,7,8-TCDF

201203R2_8



F1:Voltage SIR,EI+
315.9419
6.194e+006

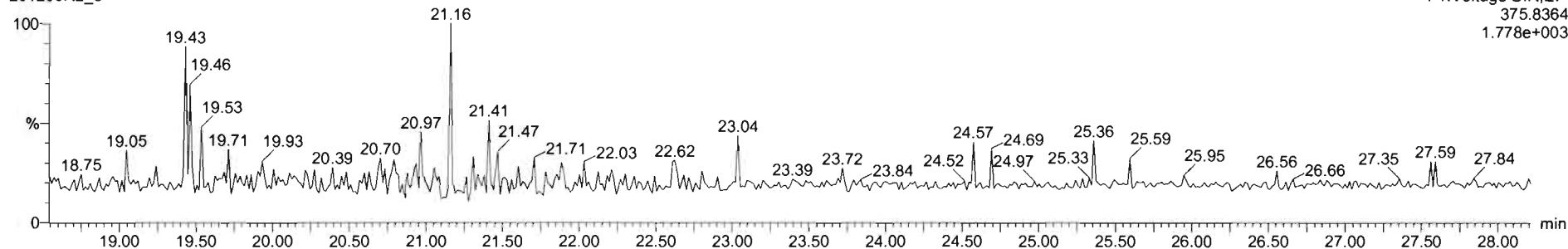
201203R2_8



F1:Voltage SIR,EI+
317.939
7.848e+006

DPE1

201203R2_8



F1:Voltage SIR,EI+
375.8364
1.778e+003

Dataset: U:\VG12.PRO\Results\201203R2\201203R2_8.qld

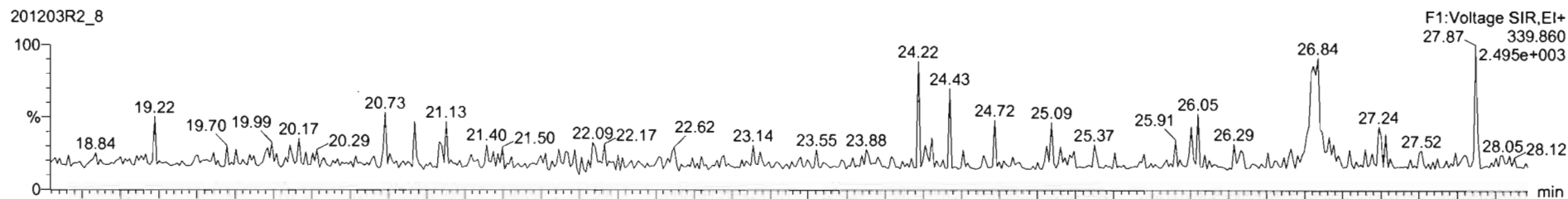
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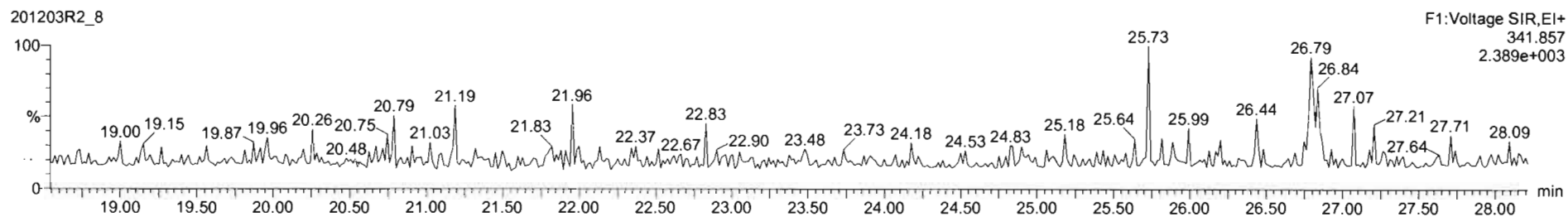
Name: 201203R2_8, Date: 03-Dec-2020, Time: 16:09:07, ID: SS201203R2_1 1613 SSS 20K1907, Description: 1613 SSS 20K1907

1st Func. Penta-Furans

201203R2_8

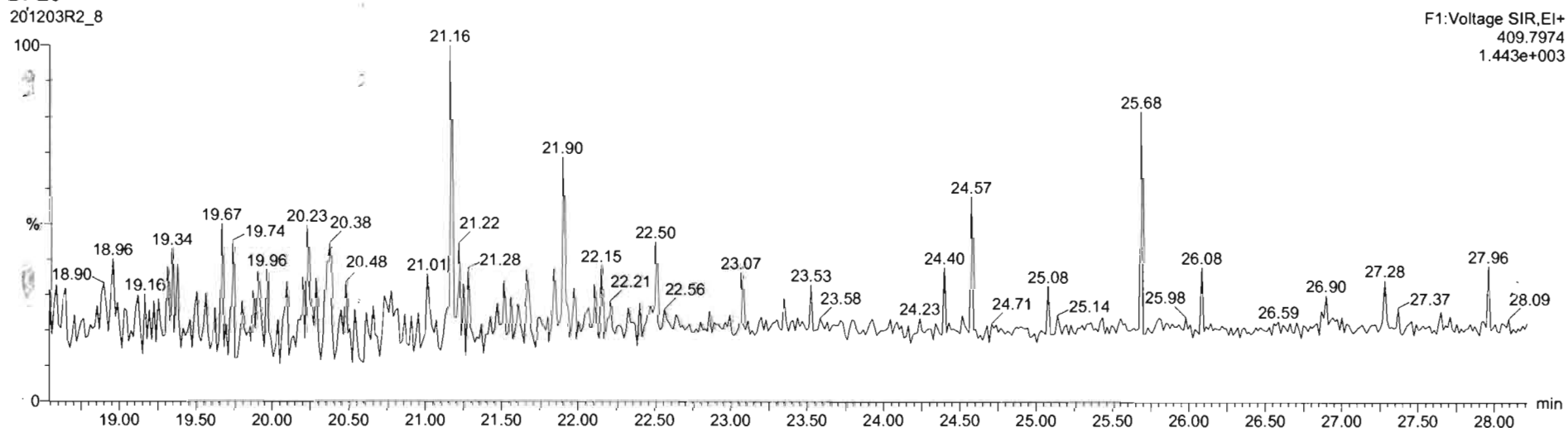


201203R2_8



DPE6

201203R2_8



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_8.qld

Last Altered: Friday, December 04, 2020 11:47:08 Pacific Standard Time
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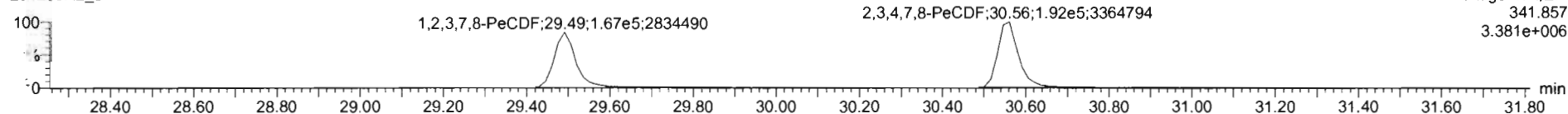
Name: 201203R2_8, Date: 03-Dec-2020, Time: 16:09:07, ID: SS201203R2_1 1613 SSS 20K1907, Description: 1613 SSS 20K1907

1,2,3,7,8-PeCDF

201203R2_8

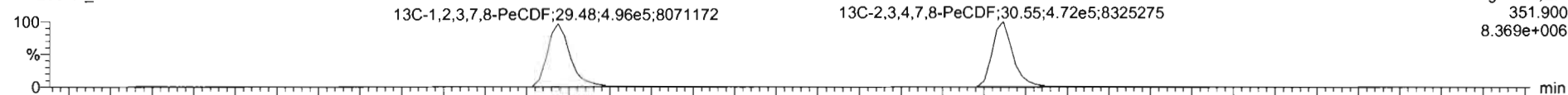


201203R2_8

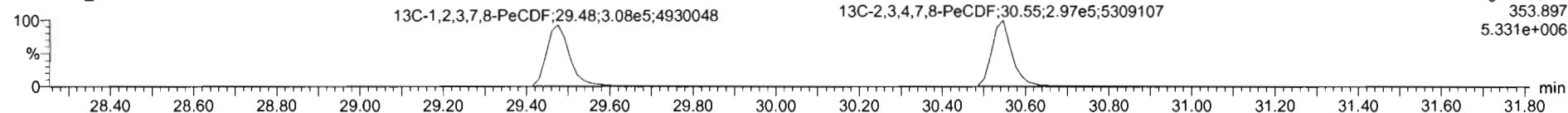


13C-1,2,3,7,8-PeCDF

201203R2_8

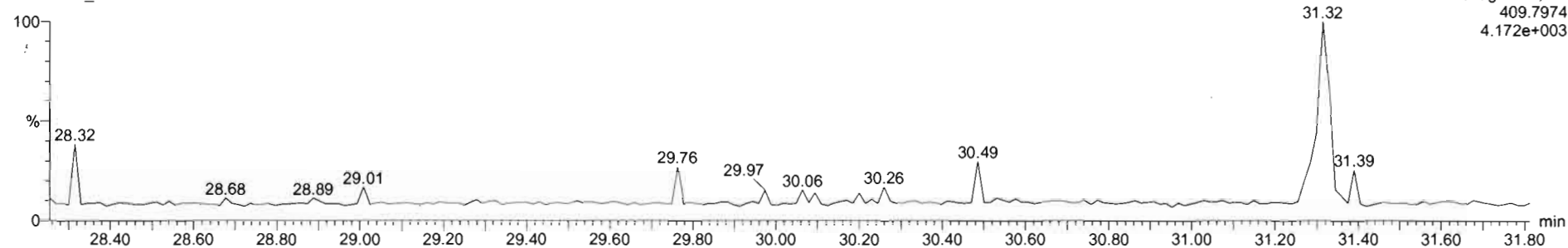


201203R2_8



DPE2

201203R2_8



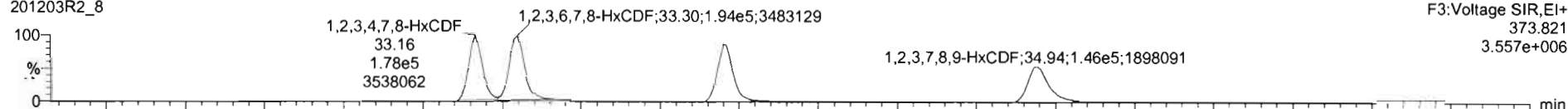
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Printed: Friday, December 04, 2020 11:48:25 Pacific Standard Time

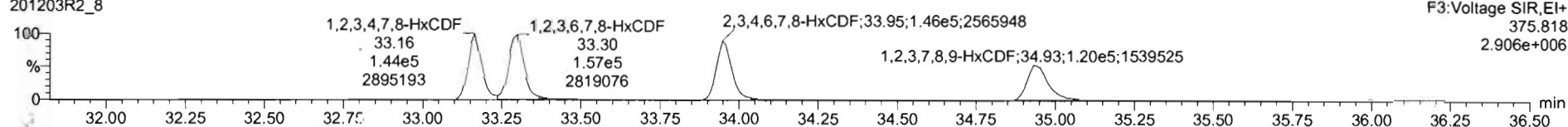
Name: 201203R2_8, Date: 03-Dec-2020, Time: 16:09:07, ID: SS201203R2_1 1613 SSS 20K1907, Description: 1613 SSS 20K1907

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

201203R2_8

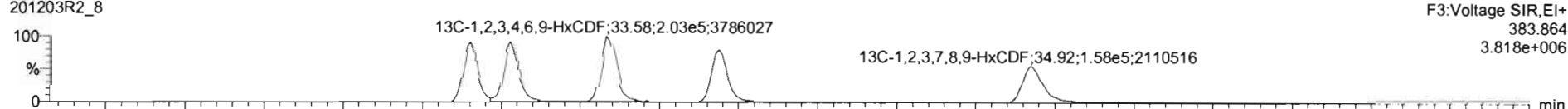


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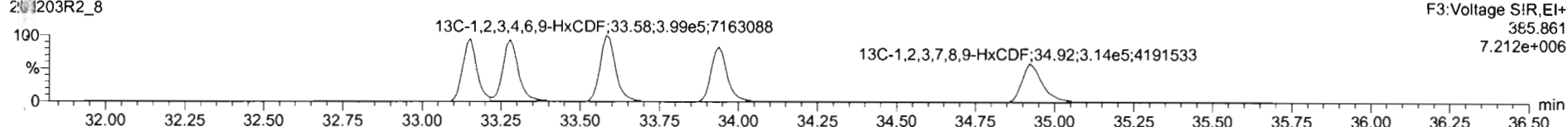


13C-1,2,3,4,7,8-HxCDF

201203R2_8

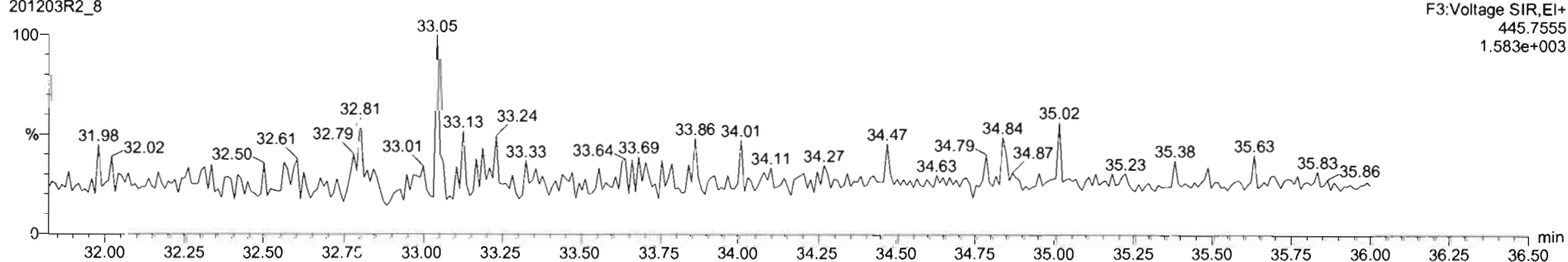


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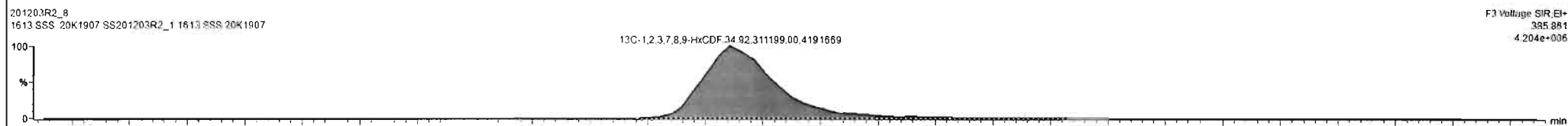
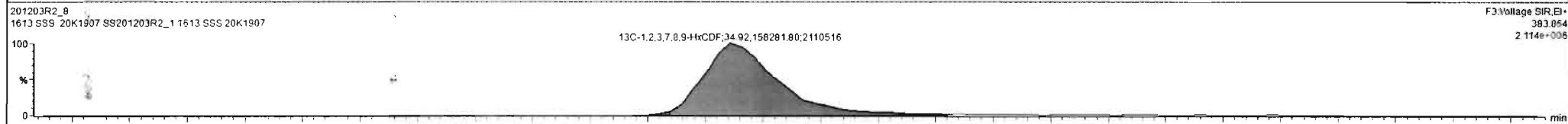
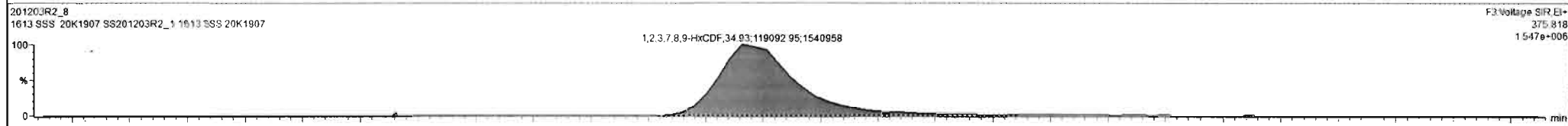
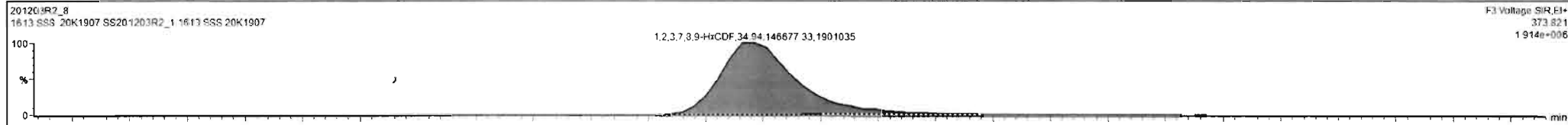


DPE3

201203R2_8



Name	Resp	RA	n/y	RRF	wilvol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TiDD	8.12e4	0.75	NO	0.9805	1.000	26.01	1.001	11.2	112	0.0338	11.2
2 1,2,3,7,8-HxCDD	2.78e5	0.63	NO	0.9320	1.000	20.75	1.000	57.1	114	0.109	57.1
3 1,2,3,4,7,8-HxCDD	2.27e5	1.26	NO	1.0203	1.000	34.05	1.000	57.5	115	0.125	57.5
4 1,2,3,6,7,8-HxCDD	2.58e5	1.25	NO	0.9025	1.000	34.18	1.001	62.5	125	0.119	62.5
5 1,2,3,7,8,9-HxCDD	2.43e5	1.27	NO	0.9542	1.000	34.45	1.001	58.0	116	0.129	58.0
6 1,2,3,4,6,7,8-HpCDD	1.75e5	1.04	NO	0.9180	1.000	37.91	1.000	54.9	110	0.206	54.9
7 OCDD	3.13e5	0.90	NO	0.8658	1.000	40.81	1.000	124	124	0.226	124
8 2,3,7,8-TCDF	1.01e5	0.74	NO	0.8480	1.000	25.70	1.001	10.9	109	0.0323	10.9
9 1,2,3,7,8-PeCDF	4.31e5	1.59	NO	0.9597	1.000	29.49	1.001	55.9	112	0.145	55.9
10 2,3,4,7,8-PeCDF	5.03e5	1.62	NO	1.0671	1.000	30.56	1.000	61.3	123	0.126	61.3
11 1,2,3,4,7,8-HxCDF	3.21e5	1.24	NO	0.9859	1.000	33.16	1.000	61.6	123	0.127	61.6
12 1,2,3,6,7,8-HxCDF	3.50e5	1.24	NO	1.0388	1.000	33.30	1.001	59.0	116	0.121	59.0
13 2,3,4,6,7,8-HxCDF	3.27e5	1.24	NO	1.0202	1.000	33.95	1.000	61.3	123	0.143	61.3
14 1,2,3,7,8,9-HxCDF	2.66e5	1.23	NO	0.9909	1.000	34.94	1.001	57.1	114	0.209	57.1

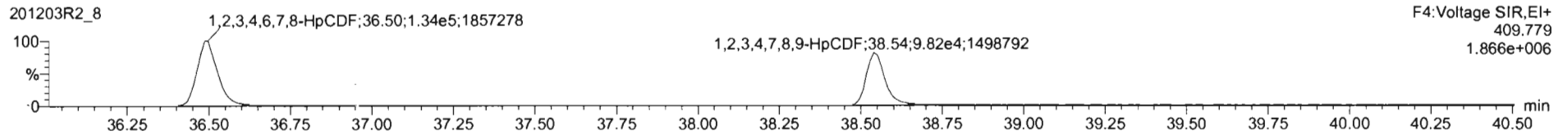
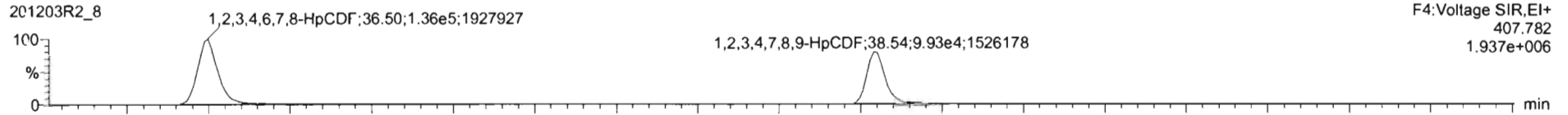


Dataset: U:\VG12.PRO\Results\201203R2\201203R2_8.qld

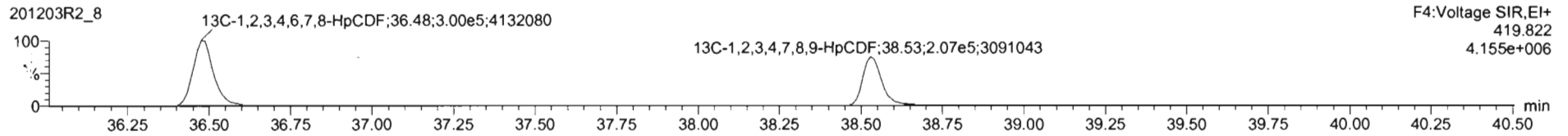
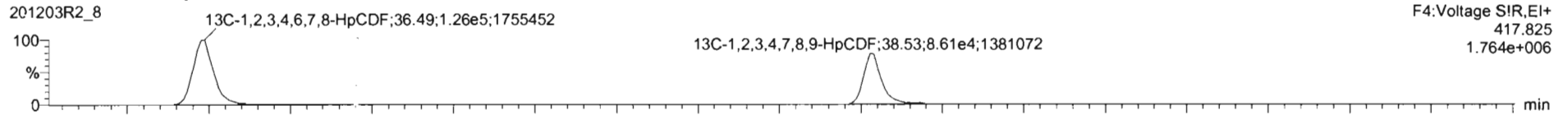
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Name: 201203R2_8, Date: 03-Dec-2020, Time: 16:09:07, ID: SS201203R2_1 1613 SSS 20K1907, Description: 1613 SSS 20K1907

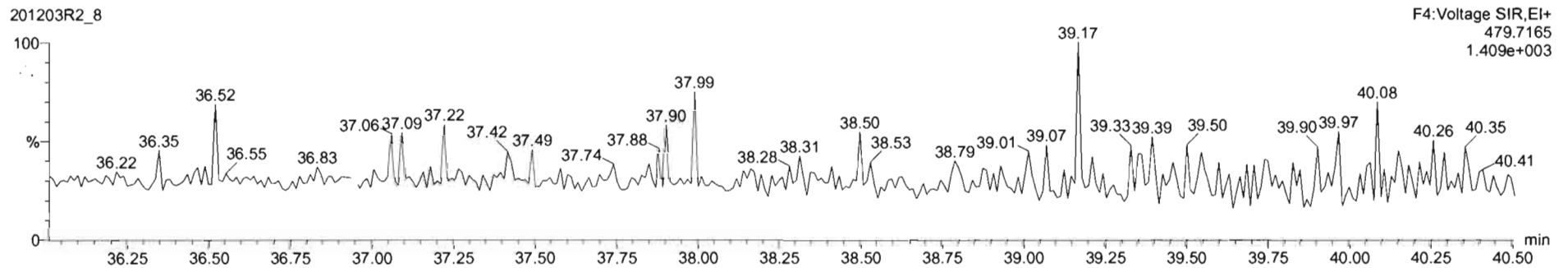
1,2,3,4,6,7,8-HpCDF



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



DPE4

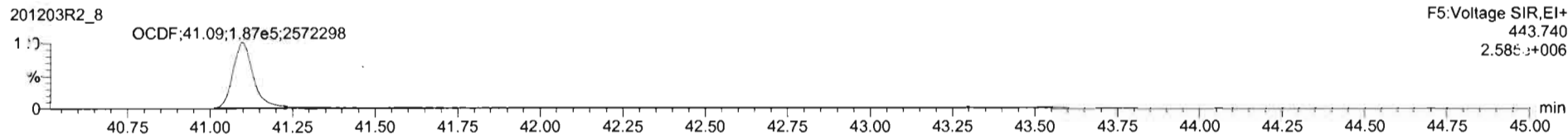
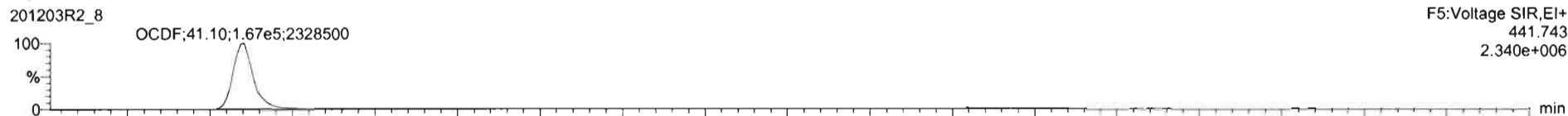


Dataset: U:\VG12.PRO\Results\201203R2\201203R2_8.qld

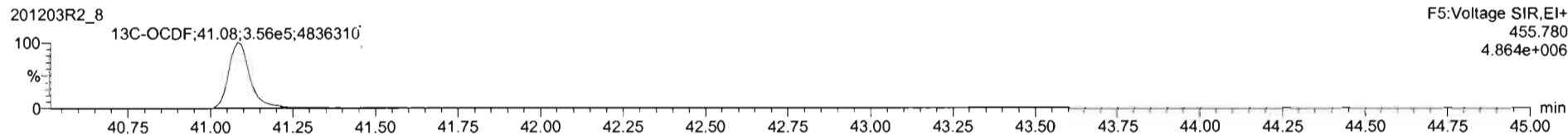
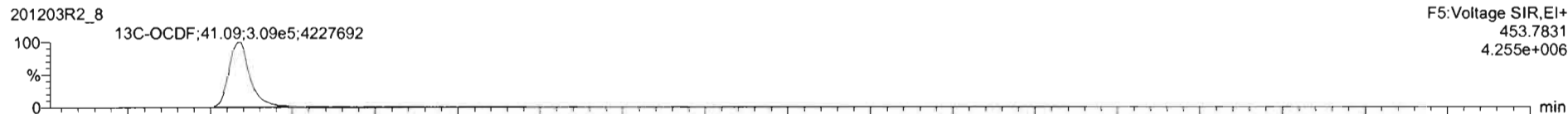
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Printed: Friday, December 04, 2020 11:48:25 Pacific Standard Time

Name: 201203R2_8, Date: 03-Dec-2020, Time: 16:09:07, ID: SS201203R2_1 1613 SSS 20K1907, Description: 1613 SSS 20K1907

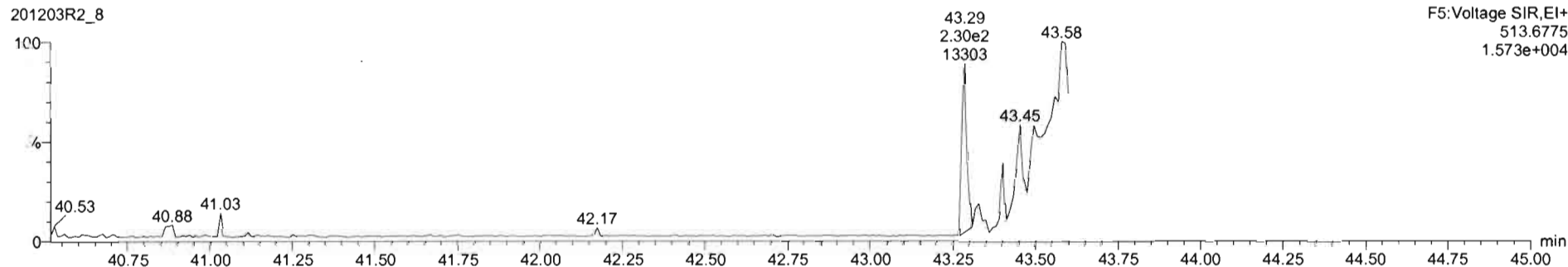
OCDF



13C-OCDF



DPE5



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Printed: Friday, December 04, 2020 11:48:25 Pacific Standard Time

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