

December 31, 2020

Vista Work Order No. 2002532

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. 2002532

Case Narrative

Sample Condition on Receipt:

Fourteen 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 in the Method Blank. The OPR recoveries were within the method acceptance criteria.

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

TABLE OF CONTENTS

Case Narrative.....	1
Table of Contents.....	3
Sample Inventory.....	4
Analytical Results.....	5
Qualifiers.....	22
Certifications.....	23
Sample Receipt.....	26
Extraction Information.....	31
Sample Data - EPA Method 1613.....	38
Continuing Calibration.....	435
Initial Calibration.....	559

Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2002532-01	USMPDI-001SC-A-01-02-201111	11-Nov-20 10:55	17-Nov-20 10:43	Amber Glass, 120 mL
2002532-02	USMPDI-001SC-A-02-03-201111	11-Nov-20 10:55	17-Nov-20 10:43	Amber Glass, 120 mL
2002532-03	USMPDI-001SC-A-03-04-201111	11-Nov-20 10:55	17-Nov-20 10:43	Amber Glass, 120 mL
2002532-04	USMPDI-001SC-A-04-05-201111	11-Nov-20 10:55	17-Nov-20 10:43	Amber Glass, 120 mL
2002532-05	USMPDI-002SC-A-04-05-201111	11-Nov-20 15:35	17-Nov-20 10:43	Amber Glass, 120 mL
2002532-06	USMPDI-002SC-A-05-06-201111	11-Nov-20 15:35	17-Nov-20 10:43	Amber Glass, 120 mL
2002532-07	USMPDI-004SC-A-01-02-201111	11-Nov-20 08:35	17-Nov-20 10:43	Amber Glass, 120 mL
2002532-08	USMPDI-004SC-A-02-03-201111	11-Nov-20 08:35	17-Nov-20 10:43	Amber Glass, 120 mL
2002532-09	USMPDI-004SC-A-03-04-201111	11-Nov-20 08:35	17-Nov-20 10:43	Amber Glass, 120 mL
2002532-10	USMPDI-004SC-A-04-05-201111	11-Nov-20 08:35	17-Nov-20 10:43	Amber Glass, 120 mL
2002532-11	USMPDI-011SC-A-04-05-201111	11-Nov-20 13:25	17-Nov-20 10:43	Amber Glass, 120 mL
2002532-12	USMPDI-011SC-A-05-06-201111	11-Nov-20 13:25	17-Nov-20 10:43	Amber Glass, 120 mL
2002532-13	USMPDI-011SC-A-06-07-201111	11-Nov-20 13:25	17-Nov-20 10:43	Amber Glass, 120 mL
2002532-14	USMPDI-011SC-A-07-08-201111	11-Nov-20 13:25	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: B0L0082 Date Extracted: 12-Dec-2020 10:53		Lab Sample: B0L0082-BLK1 Date Analyzed: 17-Dec-20 16:46 Column: ZB-DIOXIN					
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers	
2,3,7,8-TCDD	ND	0.0101			IS 13C-2,3,7,8-TCDD	101	25 - 164		
1,2,3,7,8-PeCDD	ND	0.0283			13C-1,2,3,7,8-PeCDD	105	25 - 181		
1,2,3,4,7,8-HxCDD	ND	0.0228			13C-1,2,3,4,7,8-HxCDD	112	32 - 141		
1,2,3,6,7,8-HxCDD	ND	0.0235			13C-1,2,3,6,7,8-HxCDD	106	28 - 130		
1,2,3,7,8,9-HxCDD	ND	0.0239			13C-1,2,3,7,8,9-HxCDD	103	32 - 141		
1,2,3,4,6,7,8-HpCDD	0.142			J	13C-1,2,3,4,6,7,8-HpCDD	103	23 - 140		
OCDD	1.36			J	13C-OCDD	81.2	17 - 157		
2,3,7,8-TCDF	ND	0.00691			13C-2,3,7,8-TCDF	101	24 - 169		
1,2,3,7,8-PeCDF	ND	0.0173			13C-1,2,3,7,8-PeCDF	111	24 - 185		
2,3,4,7,8-PeCDF	ND	0.0171			13C-2,3,4,7,8-PeCDF	113	21 - 178		
1,2,3,4,7,8-HxCDF	ND	0.0182			13C-1,2,3,4,7,8-HxCDF	98.3	26 - 152		
1,2,3,6,7,8-HxCDF	ND	0.0179			13C-1,2,3,6,7,8-HxCDF	91.4	26 - 123		
2,3,4,6,7,8-HxCDF	ND	0.0197			13C-2,3,4,6,7,8-HxCDF	96.5	28 - 136		
1,2,3,7,8,9-HxCDF	0.0332			J	13C-1,2,3,7,8,9-HxCDF	98.5	29 - 147		
1,2,3,4,6,7,8-HpCDF	ND	0.0252			13C-1,2,3,4,6,7,8-HpCDF	76.2	28 - 143		
1,2,3,4,7,8,9-HpCDF	0.0314			J	13C-1,2,3,4,7,8,9-HpCDF	94.6	26 - 138		
OCDF	0.124			J	13C-OCDF	76.9	17 - 157		
					CRS 37Cl-2,3,7,8-TCDD	97.0	35 - 197		
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)				
					TEQMinWHO2005Dioxin		0.00550		
TOTALS									
Total TCDD	ND	0.0101							
Total PeCDD	ND		0.0710						
Total HxCDD	ND	0.0239							
Total HpCDD	0.225								
Total TCDF	ND	0.00691							
Total PeCDF	ND	0.0173							
Total HxCDF	0.0332		0.0650						
Total HpCDF	0.0314		0.0310						

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: B0L0082	Lab Sample: B0L0082-BS1					
Sample Size: 10.0 g	Date Extracted: 12-Dec-2020 10:53	Date Analyzed: 17-Dec-20 15:13	Column: ZB-DIOXIN				
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	21.0	20.0	105	67 - 158	IS 13C-2,3,7,8-TCDD	102	20 - 175
1,2,3,7,8-PeCDD	106	100	106	70 - 142	13C-1,2,3,7,8-PeCDD	105	21 - 227
1,2,3,4,7,8-HxCDD	106	100	106	70 - 164	13C-1,2,3,4,7,8-HxCDD	114	21 - 193
1,2,3,6,7,8-HxCDD	103	100	103	76 - 134	13C-1,2,3,6,7,8-HxCDD	108	25 - 163
1,2,3,7,8,9-HxCDD	102	100	102	64 - 162	13C-1,2,3,7,8,9-HxCDD	105	21 - 193
1,2,3,4,6,7,8-HpCDD	97.3	100	97.3	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	106	26 - 166
OCDD	204	200	102	78 - 144	13C-OCDD	82.7	13 - 199
2,3,7,8-TCDF	18.7	20.0	93.7	75 - 158	13C-2,3,7,8-TCDF	103	22 - 152
1,2,3,7,8-PeCDF	102	100	102	80 - 134	13C-1,2,3,7,8-PeCDF	111	21 - 192
2,3,4,7,8-PeCDF	102	100	102	68 - 160	13C-2,3,4,7,8-PeCDF	114	13 - 328
1,2,3,4,7,8-HxCDF	98.0	100	98.0	72 - 134	13C-1,2,3,4,7,8-HxCDF	101	19 - 202
1,2,3,6,7,8-HxCDF	98.0	100	98.0	84 - 130	13C-1,2,3,6,7,8-HxCDF	94.2	21 - 159
2,3,4,6,7,8-HxCDF	98.3	100	98.3	70 - 156	13C-2,3,4,6,7,8-HxCDF	98.6	22 - 176
1,2,3,7,8,9-HxCDF	98.5	100	98.5	78 - 130	13C-1,2,3,7,8,9-HxCDF	101	17 - 205
1,2,3,4,6,7,8-HpCDF	96.9	100	96.9	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	79.8	21 - 158
1,2,3,4,7,8,9-HpCDF	99.9	100	99.9	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	98.7	20 - 186
OCDF	199	200	99.3	63 - 170	13C-OCDF	81.6	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	97.7	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: USMPDI-001SC-A-01-02-201111 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002532-01 Date Received: 17-Nov-2020 10:43
Project: GascoSiltronic: US Moorings	Sample Size: 15.8 g	QC Batch: B0L0082 Date Extracted: 12-Dec-2020 10:53
Date Collected: 11-Nov-2020 10:55	% Solids: 64.4	Date Analyzed: 18-Dec-20 19:13 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0126			IS 13C-2,3,7,8-TCDD	97.9	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0293			13C-1,2,3,7,8-PeCDD	109	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0266			13C-1,2,3,4,7,8-HxCDD	118	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0285			13C-1,2,3,6,7,8-HxCDD	111	28 - 130	
1,2,3,7,8,9-HxCDD	0.0442			J	13C-1,2,3,7,8,9-HxCDD	108	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.387			J, B	13C-1,2,3,4,6,7,8-HpCDD	109	23 - 140	
OCDD	3.03			J, B	13C-OCDD	86.3	17 - 157	
2,3,7,8-TCDF	ND	0.0164			13C-2,3,7,8-TCDF	101	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0171			13C-1,2,3,7,8-PeCDF	110	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0141			13C-2,3,4,7,8-PeCDF	115	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0126			13C-1,2,3,4,7,8-HxCDF	95.3	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0125			13C-1,2,3,6,7,8-HxCDF	87.7	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0137			13C-2,3,4,6,7,8-HxCDF	93.7	28 - 136	
1,2,3,7,8,9-HxCDF	0.0263			J, B	13C-1,2,3,7,8,9-HxCDF	94.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.0389			J	13C-1,2,3,4,6,7,8-HpCDF	75.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0112			13C-1,2,3,4,7,8,9-HpCDF	93.9	26 - 138	
OCDF	ND	0.0388			13C-OCDF	74.2	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	95.9	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.0122

TOTALS			
Total TCDD	0.268		
Total PeCDD	0.177	0.254	
Total HxCDD	0.442	0.630	
Total HpCDD	0.976		B
Total TCDF	0.151		
Total PeCDF	0.0151		
Total HxCDF	0.0263	0.0455	B
Total HpCDF	0.0389		B

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-001SC-A-02-03-201111 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002532-02 Date Received: 17-Nov-2020 10:43
Project: GascoSiltronic: US Moorings	Sample Size: 14.3 g	QC Batch: B0L0082 Date Extracted: 12-Dec-2020 10:53
Date Collected: 11-Nov-2020 10:55	% Solids: 70.0	Date Analyzed: 20-Dec-20 10:44 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0457			IS 13C-2,3,7,8-TCDD	92.3	25 - 164	
1,2,3,7,8-PeCDD	0.263			J	13C-1,2,3,7,8-PeCDD	106	25 - 181	
1,2,3,4,7,8-HxCDD	0.189			J	13C-1,2,3,4,7,8-HxCDD	100	32 - 141	
1,2,3,6,7,8-HxCDD	0.318			J	13C-1,2,3,6,7,8-HxCDD	93.8	28 - 130	
1,2,3,7,8,9-HxCDD	0.793			J	13C-1,2,3,7,8,9-HxCDD	90.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.30			J, B	13C-1,2,3,4,6,7,8-HpCDD	94.9	23 - 140	
OCDD	5.07			B	13C-OCDD	82.0	17 - 157	
2,3,7,8-TCDF	ND	0.0263			13C-2,3,7,8-TCDF	92.0	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0552			13C-1,2,3,7,8-PeCDF	103	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0490			13C-2,3,4,7,8-PeCDF	103	21 - 178	
1,2,3,4,7,8-HxCDF	0.0918			J	13C-1,2,3,4,7,8-HxCDF	90.9	26 - 152	
1,2,3,6,7,8-HxCDF	0.104			J	13C-1,2,3,6,7,8-HxCDF	82.9	26 - 123	
2,3,4,6,7,8-HxCDF	0.145			J	13C-2,3,4,6,7,8-HxCDF	87.3	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.129		13C-1,2,3,7,8,9-HxCDF	86.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.298			J	13C-1,2,3,4,6,7,8-HpCDF	70.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.279			J, B	13C-1,2,3,4,7,8,9-HpCDF	91.4	26 - 138	
OCDF	ND		0.655		13C-OCDF	77.9	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	91.5	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.447

TOTALS								
Total TCDD	0.208							
Total PeCDD	0.844		1.49					
Total HxCDD	4.39							
Total HpCDD	3.08			B				
Total TCDF	ND	0.0263						
Total PeCDF	ND	0.0552						
Total HxCDF	0.342		0.543	B				
Total HpCDF	0.577			B				

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-001SC-A-03-04-201111 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002532-03 Date Received: 17-Nov-2020 10:43
Project: GascoSiltronic: US Moorings	Sample Size: 13.6 g	QC Batch: B0L0082 Date Extracted: 12-Dec-2020 10:53
Date Collected: 11-Nov-2020 10:55	% Solids: 75.1	Date Analyzed: 20-Dec-20 11:28 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0421			IS 13C-2,3,7,8-TCDD	98.6	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0690			13C-1,2,3,7,8-PeCDD	111	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0916			13C-1,2,3,4,7,8-HxCDD	106	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0933			13C-1,2,3,6,7,8-HxCDD	98.9	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0932			13C-1,2,3,7,8,9-HxCDD	98.4	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.972			J, B	13C-1,2,3,4,6,7,8-HpCDD	104	23 - 140	
OCDD	12.0			B	13C-OCDD	83.9	17 - 157	
2,3,7,8-TCDF	ND	0.0197			13C-2,3,7,8-TCDF	98.6	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0415			13C-1,2,3,7,8-PeCDF	110	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0342			13C-2,3,4,7,8-PeCDF	113	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0463			13C-1,2,3,4,7,8-HxCDF	92.6	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0479			13C-1,2,3,6,7,8-HxCDF	83.1	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0483			13C-2,3,4,6,7,8-HxCDF	93.3	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.0180		13C-1,2,3,7,8,9-HxCDF	95.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0681			13C-1,2,3,4,6,7,8-HpCDF	75.5	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0547			13C-1,2,3,4,7,8,9-HpCDF	101	26 - 138	
OCDF	0.119			J, B	13C-OCDF	81.1	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	101	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.0134

TOTALS								
Total TCDD	0.207							
Total PeCDD	ND		0.119					
Total HxCDD	1.38							
Total HpCDD	2.65			B				
Total TCDF	ND	0.0197						
Total PeCDF	ND	0.0415						
Total HxCDF	0.0457		0.119	B				
Total HpCDF	ND	0.0681						

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-001SC-A-04-05-201111 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002532-04 Date Received: 17-Nov-2020 10:43
Project: GascoSiltronic: US Moorings	Sample Size: 12.3 g	QC Batch: B0L0082 Date Extracted: 12-Dec-2020 10:53
Date Collected: 11-Nov-2020 10:55	% Solids: 81.4	Date Analyzed: 20-Dec-20 12:13 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0481			IS 13C-2,3,7,8-TCDD	105	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0655			13C-1,2,3,7,8-PeCDD	115	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0713			13C-1,2,3,4,7,8-HxCDD	107	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0733			13C-1,2,3,6,7,8-HxCDD	98.0	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0744			13C-1,2,3,7,8,9-HxCDD	97.6	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.778			J, B	13C-1,2,3,4,6,7,8-HpCDD	95.4	23 - 140	
OCDD	6.62			B	13C-OCDD	75.0	17 - 157	
2,3,7,8-TCDF	ND	0.0195			13C-2,3,7,8-TCDF	106	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0307			13C-1,2,3,7,8-PeCDF	119	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0286			13C-2,3,4,7,8-PeCDF	119	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0347			13C-1,2,3,4,7,8-HxCDF	96.0	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0344			13C-1,2,3,6,7,8-HxCDF	87.9	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0390			13C-2,3,4,6,7,8-HxCDF	95.1	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0444			13C-1,2,3,7,8,9-HxCDF	97.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0636			13C-1,2,3,4,6,7,8-HpCDF	68.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0494			13C-1,2,3,4,7,8,9-HpCDF	96.7	26 - 138	
OCDF	ND	0.0691			13C-OCDF	75.9	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	96.3	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.00977

TOTALS								
Total TCDD	0.230							
Total PeCDD	ND		0.287					
Total HxCDD	0.824		1.25					
Total HpCDD	2.23			B				
Total TCDF	ND	0.0195						
Total PeCDF	ND	0.0307						
Total HxCDF	ND	0.0444						
Total HpCDF	ND	0.0636						

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-002SC-A-04-05-201111 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002532-05 Date Received: 17-Nov-2020 10:43
Project: GascoSiltronic: US Moorings	Sample Size: 15.1 g	QC Batch: B0L0082 Date Extracted: 12-Dec-2020 10:53
Date Collected: 11-Nov-2020 15:35	% Solids: 67.4	Date Analyzed: 20-Dec-20 12:57 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.0729		IS 13C-2,3,7,8-TCDD	87.4	25 - 164	
1,2,3,7,8-PeCDD	ND		0.131		13C-1,2,3,7,8-PeCDD	103	25 - 181	
1,2,3,4,7,8-HxCDD	0.201			J	13C-1,2,3,4,7,8-HxCDD	96.3	32 - 141	
1,2,3,6,7,8-HxCDD	2.14			J	13C-1,2,3,6,7,8-HxCDD	89.9	28 - 130	
1,2,3,7,8,9-HxCDD	0.547			J	13C-1,2,3,7,8,9-HxCDD	91.0	32 - 141	
1,2,3,4,6,7,8-HpCDD	57.7			B	13C-1,2,3,4,6,7,8-HpCDD	94.6	23 - 140	
OCDD	579			B	13C-OCDD	76.5	17 - 157	
2,3,7,8-TCDF	0.614				13C-2,3,7,8-TCDF	91.7	24 - 169	
1,2,3,7,8-PeCDF	0.705			J	13C-1,2,3,7,8-PeCDF	107	24 - 185	
2,3,4,7,8-PeCDF	0.771			J	13C-2,3,4,7,8-PeCDF	104	21 - 178	
1,2,3,4,7,8-HxCDF	1.57			J	13C-1,2,3,4,7,8-HxCDF	87.6	26 - 152	
1,2,3,6,7,8-HxCDF	0.557			J	13C-1,2,3,6,7,8-HxCDF	80.3	26 - 123	
2,3,4,6,7,8-HxCDF	0.626			J	13C-2,3,4,6,7,8-HxCDF	85.0	28 - 136	
1,2,3,7,8,9-HxCDF	0.192			J, B	13C-1,2,3,7,8,9-HxCDF	85.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	13.8				13C-1,2,3,4,6,7,8-HpCDF	68.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.463			J, B	13C-1,2,3,4,7,8,9-HpCDF	86.2	26 - 138	
OCDF	9.83			B	13C-OCDF	73.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	87.2	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 1.79

TOTALS								
Total TCDD	0.419		0.783					
Total PeCDD	0.132		1.44					
Total HxCDD	11.8							
Total HpCDD	106			B				
Total TCDF	4.73		4.88					
Total PeCDF	7.28							
Total HxCDF	19.5			B				
Total HpCDF	32.4			B				

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-002SC-A-05-06-201111 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002532-06 Date Received: 17-Nov-2020 10:43
Project: GascoSiltronic: US Moorings	Sample Size: 15.5 g	QC Batch: B0L0082 Date Extracted: 12-Dec-2020 10:53
Date Collected: 11-Nov-2020 15:35	% Solids: 64.8	Date Analyzed: 20-Dec-20 13:41 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0513			IS 13C-2,3,7,8-TCDD	104	25 - 164	
1,2,3,7,8-PeCDD	0.0773			J	13C-1,2,3,7,8-PeCDD	110	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0854			13C-1,2,3,4,7,8-HxCDD	112	32 - 141	
1,2,3,6,7,8-HxCDD	0.289			J	13C-1,2,3,6,7,8-HxCDD	104	28 - 130	
1,2,3,7,8,9-HxCDD	0.182			J	13C-1,2,3,7,8,9-HxCDD	105	32 - 141	
1,2,3,4,6,7,8-HpCDD	6.24			B	13C-1,2,3,4,6,7,8-HpCDD	110	23 - 140	
OCDD	73.5			B	13C-OCDD	94.8	17 - 157	
2,3,7,8-TCDF	0.209			J	13C-2,3,7,8-TCDF	106	24 - 169	
1,2,3,7,8-PeCDF	0.182			J	13C-1,2,3,7,8-PeCDF	113	24 - 185	
2,3,4,7,8-PeCDF	0.157			J	13C-2,3,4,7,8-PeCDF	115	21 - 178	
1,2,3,4,7,8-HxCDF	0.305			J	13C-1,2,3,4,7,8-HxCDF	101	26 - 152	
1,2,3,6,7,8-HxCDF	0.125			J	13C-1,2,3,6,7,8-HxCDF	91.7	26 - 123	
2,3,4,6,7,8-HxCDF	0.100			J	13C-2,3,4,6,7,8-HxCDF	100	28 - 136	
1,2,3,7,8,9-HxCDF	0.0997			J, B	13C-1,2,3,7,8,9-HxCDF	101	29 - 147	
1,2,3,4,6,7,8-HpCDF	1.29			J	13C-1,2,3,4,6,7,8-HpCDF	81.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND		0.0848		13C-1,2,3,4,7,8,9-HpCDF	107	26 - 138	
OCDF	1.87			J, B	13C-OCDF	93.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	97.3	35 - 197	

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

TEQMinWHO2005Dioxin 0.359

TOTALS								
Total TCDD	0.380							
Total PeCDD	0.384		0.743					
Total HxCDD	1.94		2.89					
Total HpCDD	13.5			B				
Total TCDF	0.821		0.880					
Total PeCDF	1.48							
Total HxCDF	2.27			B				
Total HpCDF	3.32		3.40	B				

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-004SC-A-01-02-201111 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002532-07 Date Received: 17-Nov-2020 10:43
Project: GascoSiltronic: US Moorings	Sample Size: 17.5 g	QC Batch: B0L0082 Date Extracted: 12-Dec-2020 10:53
Date Collected: 11-Nov-2020 8:35	% Solids: 57.4	Date Analyzed : 20-Dec-20 14:25 Column: ZB-DIOXIN 21-Dec-20 15:32 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	0.943				IS 13C-2,3,7,8-TCDD	96.5	25 - 164	
1,2,3,7,8-PeCDD	2.66				13C-1,2,3,7,8-PeCDD	105	25 - 181	
1,2,3,4,7,8-HxCDD	4.18				13C-1,2,3,4,7,8-HxCDD	103	32 - 141	
1,2,3,6,7,8-HxCDD	31.0				13C-1,2,3,6,7,8-HxCDD	96.7	28 - 130	
1,2,3,7,8,9-HxCDD	9.30				13C-1,2,3,7,8,9-HxCDD	97.0	32 - 141	
1,2,3,4,6,7,8-HpCDD	841			B	13C-1,2,3,4,6,7,8-HpCDD	110	23 - 140	
OCDD	8040			D, B	13C-OCDD	86.1	17 - 157	D
2,3,7,8-TCDF	20.2				13C-2,3,7,8-TCDF	97.6	24 - 169	
1,2,3,7,8-PeCDF	42.5				13C-1,2,3,7,8-PeCDF	107	24 - 185	
2,3,4,7,8-PeCDF	20.0				13C-2,3,4,7,8-PeCDF	104	21 - 178	
1,2,3,4,7,8-HxCDF	103				13C-1,2,3,4,7,8-HxCDF	95.0	26 - 152	
1,2,3,6,7,8-HxCDF	25.6				13C-1,2,3,6,7,8-HxCDF	86.5	26 - 123	
2,3,4,6,7,8-HxCDF	7.53				13C-2,3,4,6,7,8-HxCDF	91.4	28 - 136	
1,2,3,7,8,9-HxCDF	2.04			J, B	13C-1,2,3,7,8,9-HxCDF	93.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	95.2				13C-1,2,3,4,6,7,8-HpCDF	75.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	16.0			B	13C-1,2,3,4,7,8,9-HpCDF	99.8	26 - 138	
OCDF	146			B	13C-OCDF	91.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	98.4	35 - 197	

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

TEQMinWHO2005Dioxin	43.1
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TOTALS								
Total TCDD	12.2		12.6					
Total PeCDD	26.7		31.0					
Total HxCDD	338							
Total HpCDD	2460			B				
Total TCDF	74.8		75.0					
Total PeCDF	147							
Total HxCDF	269			B				
Total HpCDF	250			B				

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-004SC-A-02-03-201111 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002532-08 Date Received: 17-Nov-2020 10:43
Project: GascoSiltronic: US Moorings	Sample Size: 17.6 g	QC Batch: B0L0082 Date Extracted: 12-Dec-2020 10:53
Date Collected: 11-Nov-2020 8:35	% Solids: 57.3	Date Analyzed: 20-Dec-20 15:10 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0836			IS 13C-2,3,7,8-TCDD	45.1	25 - 164	
1,2,3,7,8-PeCDD	ND	0.225			13C-1,2,3,7,8-PeCDD	48.6	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.205			13C-1,2,3,4,7,8-HxCDD	53.5	32 - 141	
1,2,3,6,7,8-HxCDD	1.13			J	13C-1,2,3,6,7,8-HxCDD	51.6	28 - 130	
1,2,3,7,8,9-HxCDD	0.396			J	13C-1,2,3,7,8,9-HxCDD	48.6	32 - 141	
1,2,3,4,6,7,8-HpCDD	43.6			B	13C-1,2,3,4,6,7,8-HpCDD	58.8	23 - 140	
OCDD	425			B	13C-OCDD	48.2	17 - 157	
2,3,7,8-TCDF	0.935				13C-2,3,7,8-TCDF	50.8	24 - 169	
1,2,3,7,8-PeCDF	ND		0.978		13C-1,2,3,7,8-PeCDF	53.6	24 - 185	
2,3,4,7,8-PeCDF	0.731			J	13C-2,3,4,7,8-PeCDF	56.3	21 - 178	
1,2,3,4,7,8-HxCDF	1.40			J	13C-1,2,3,4,7,8-HxCDF	47.2	26 - 152	
1,2,3,6,7,8-HxCDF	0.367			J	13C-1,2,3,6,7,8-HxCDF	43.5	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.141			13C-2,3,4,6,7,8-HxCDF	46.9	28 - 136	
1,2,3,7,8,9-HxCDF	0.192			J, B	13C-1,2,3,7,8,9-HxCDF	48.3	29 - 147	
1,2,3,4,6,7,8-HpCDF	2.59				13C-1,2,3,4,6,7,8-HpCDF	39.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND		0.358		13C-1,2,3,4,7,8,9-HpCDF	49.1	26 - 138	
OCDF	6.12			B	13C-OCDF	44.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	86.0	35 - 197	

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

TEQMinWHO2005Dioxin 1.25

TOTALS								
Total TCDD	0.252							
Total PeCDD	0.641		1.15					
Total HxCDD	14.4							
Total HpCDD	116			B				
Total TCDF	2.68		3.78					
Total PeCDF	3.46		4.88					
Total HxCDF	5.67			B				
Total HpCDF	7.92		8.28	B				

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-004SC-A-03-04-201111 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002532-09 Date Received: 17-Nov-2020 10:43
Project: GascoSiltronic: US Moorings	Sample Size: 17.3 g	QC Batch: B0L0082 Date Extracted: 12-Dec-2020 10:53
Date Collected: 11-Nov-2020 8:35	% Solids: 58.3	Date Analyzed : 20-Dec-20 15:54 Column: ZB-DIOXIN 21-Dec-20 16:16 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	1.21				IS 13C-2,3,7,8-TCDD	95.5	25 - 164	
1,2,3,7,8-PeCDD	2.01			J	13C-1,2,3,7,8-PeCDD	104	25 - 181	
1,2,3,4,7,8-HxCDD	2.87				13C-1,2,3,4,7,8-HxCDD	105	32 - 141	
1,2,3,6,7,8-HxCDD	18.3				13C-1,2,3,6,7,8-HxCDD	97.5	28 - 130	
1,2,3,7,8,9-HxCDD	6.21				13C-1,2,3,7,8,9-HxCDD	97.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	721			B	13C-1,2,3,4,6,7,8-HpCDD	111	23 - 140	
OCDD	7740			D, B	13C-OCDD	84.2	17 - 157	D
2,3,7,8-TCDF	28.6				13C-2,3,7,8-TCDF	101	24 - 169	
1,2,3,7,8-PeCDF	40.2				13C-1,2,3,7,8-PeCDF	106	24 - 185	
2,3,4,7,8-PeCDF	24.6				13C-2,3,4,7,8-PeCDF	107	21 - 178	
1,2,3,4,7,8-HxCDF	71.5				13C-1,2,3,4,7,8-HxCDF	93.5	26 - 152	
1,2,3,6,7,8-HxCDF	18.9				13C-1,2,3,6,7,8-HxCDF	86.0	26 - 123	
2,3,4,6,7,8-HxCDF	7.52				13C-2,3,4,6,7,8-HxCDF	91.0	28 - 136	
1,2,3,7,8,9-HxCDF	1.26			J, B	13C-1,2,3,7,8,9-HxCDF	93.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	99.4				13C-1,2,3,4,6,7,8-HpCDF	78.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	13.8			B	13C-1,2,3,4,7,8,9-HpCDF	97.6	26 - 138	
OCDF	191			B	13C-OCDF	89.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	91.4	35 - 197	

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

TEQMinWHO2005Dioxin 38.0

TOTALS			
Total TCDD	10.3	10.8	
Total PeCDD	19.8		
Total HxCDD	226		
Total HpCDD	1650		B
Total TCDF	103	118	
Total PeCDF	168		
Total HxCDF	218		B
Total HpCDF	263		B

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-004SC-A-04-05-201111 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002532-10 Date Received: 17-Nov-2020 10:43
Project: GascoSiltronic: US Moorings	Sample Size: 17.6 g	QC Batch: B0L0082 Date Extracted: 12-Dec-2020 10:53
Date Collected: 11-Nov-2020 8:35	% Solids: 57.5	Date Analyzed: 20-Dec-20 16:38 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0602			IS 13C-2,3,7,8-TCDD	67.0	25 - 164	
1,2,3,7,8-PeCDD	ND	0.140			13C-1,2,3,7,8-PeCDD	71.6	25 - 181	
1,2,3,4,7,8-HxCDD	0.226			J	13C-1,2,3,4,7,8-HxCDD	72.8	32 - 141	
1,2,3,6,7,8-HxCDD	1.46			J	13C-1,2,3,6,7,8-HxCDD	67.5	28 - 130	
1,2,3,7,8,9-HxCDD	0.460			J	13C-1,2,3,7,8,9-HxCDD	68.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	80.3			B	13C-1,2,3,4,6,7,8-HpCDD	75.5	23 - 140	
OCDD	637			B	13C-OCDD	65.5	17 - 157	
2,3,7,8-TCDF	7.93				13C-2,3,7,8-TCDF	68.0	24 - 169	
1,2,3,7,8-PeCDF	18.4				13C-1,2,3,7,8-PeCDF	73.7	24 - 185	
2,3,4,7,8-PeCDF	8.54				13C-2,3,4,7,8-PeCDF	74.9	21 - 178	
1,2,3,4,7,8-HxCDF	21.4				13C-1,2,3,4,7,8-HxCDF	61.7	26 - 152	
1,2,3,6,7,8-HxCDF	4.45				13C-1,2,3,6,7,8-HxCDF	55.9	26 - 123	
2,3,4,6,7,8-HxCDF	1.24			J	13C-2,3,4,6,7,8-HxCDF	64.9	28 - 136	
1,2,3,7,8,9-HxCDF	0.642			J, B	13C-1,2,3,7,8,9-HxCDF	65.3	29 - 147	
1,2,3,4,6,7,8-HpCDF	6.83				13C-1,2,3,4,6,7,8-HpCDF	54.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	1.61			J, B	13C-1,2,3,4,7,8,9-HpCDF	68.4	26 - 138	
OCDF	15.4			B	13C-OCDF	61.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	93.2	35 - 197	

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

TEQMinWHO2005Dioxin 7.98

TOTALS				
Total TCDD	0.168			
Total PeCDD	0.544	1.01		
Total HxCDD	23.3			
Total HpCDD	196		B	
Total TCDF	17.9			
Total PeCDF	44.5	44.9		
Total HxCDF	36.0		B	
Total HpCDF	17.8		B	

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-011SC-A-04-05-201111 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002532-11 Date Received: 17-Nov-2020 10:43
Project: GascoSiltronic: US Moorings	Sample Size: 15.7 g	QC Batch: B0L0082 Date Extracted: 12-Dec-2020 10:53
Date Collected: 11-Nov-2020 13:25	% Solids: 63.8	Date Analyzed: 20-Dec-20 17:22 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.379		IS 13C-2,3,7,8-TCDD	100	25 - 164	
1,2,3,7,8-PeCDD	ND		0.401		13C-1,2,3,7,8-PeCDD	112	25 - 181	
1,2,3,4,7,8-HxCDD	0.287			J	13C-1,2,3,4,7,8-HxCDD	105	32 - 141	
1,2,3,6,7,8-HxCDD	1.52			J	13C-1,2,3,6,7,8-HxCDD	98.2	28 - 130	
1,2,3,7,8,9-HxCDD	0.686			J	13C-1,2,3,7,8,9-HxCDD	97.0	32 - 141	
1,2,3,4,6,7,8-HpCDD	40.9			B	13C-1,2,3,4,6,7,8-HpCDD	102	23 - 140	
OCDD	556			B	13C-OCDD	87.0	17 - 157	
2,3,7,8-TCDF	10.2				13C-2,3,7,8-TCDF	101	24 - 169	
1,2,3,7,8-PeCDF	12.1				13C-1,2,3,7,8-PeCDF	112	24 - 185	
2,3,4,7,8-PeCDF	7.18				13C-2,3,4,7,8-PeCDF	115	21 - 178	
1,2,3,4,7,8-HxCDF	14.9				13C-1,2,3,4,7,8-HxCDF	95.3	26 - 152	
1,2,3,6,7,8-HxCDF	3.76				13C-1,2,3,6,7,8-HxCDF	87.4	26 - 123	
2,3,4,6,7,8-HxCDF	1.35			J	13C-2,3,4,6,7,8-HxCDF	93.0	28 - 136	
1,2,3,7,8,9-HxCDF	0.894			J, B	13C-1,2,3,7,8,9-HxCDF	93.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	10.8				13C-1,2,3,4,6,7,8-HpCDF	76.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	2.86			B	13C-1,2,3,4,7,8,9-HpCDF	98.3	26 - 138	
OCDF	29.7			B	13C-OCDF	83.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	101	35 - 197	

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

TEQMinWHO2005Dioxin 6.60

TOTALS								
Total TCDD	1.38		1.86					
Total PeCDD	1.53		2.66					
Total HxCDD	13.9							
Total HpCDD	93.4			B				
Total TCDF	37.4		37.8					
Total PeCDF	39.4		39.7					
Total HxCDF	33.7			B				
Total HpCDF	29.0			B				

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-011SC-A-05-06-201111 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002532-12 Date Received: 17-Nov-2020 10:43
Project: GascoSiltronic: US Moorings	Sample Size: 14.3 g	QC Batch: B0L0082 Date Extracted: 12-Dec-2020 10:53
Date Collected: 11-Nov-2020 13:25	% Solids: 70.0	Date Analyzed: 20-Dec-20 18:07 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.106		IS 13C-2,3,7,8-TCDD	93.0	25 - 164	
1,2,3,7,8-PeCDD	0.241			J	13C-1,2,3,7,8-PeCDD	97.0	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.120			13C-1,2,3,4,7,8-HxCDD	98.9	32 - 141	
1,2,3,6,7,8-HxCDD	0.379			J	13C-1,2,3,6,7,8-HxCDD	92.8	28 - 130	
1,2,3,7,8,9-HxCDD	0.174			J	13C-1,2,3,7,8,9-HxCDD	91.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	8.15			B	13C-1,2,3,4,6,7,8-HpCDD	98.9	23 - 140	
OCDD	120			B	13C-OCDD	87.0	17 - 157	
2,3,7,8-TCDF	1.85				13C-2,3,7,8-TCDF	94.5	24 - 169	
1,2,3,7,8-PeCDF	2.10			J	13C-1,2,3,7,8-PeCDF	99.7	24 - 185	
2,3,4,7,8-PeCDF	1.28			J	13C-2,3,4,7,8-PeCDF	102	21 - 178	
1,2,3,4,7,8-HxCDF	2.63				13C-1,2,3,4,7,8-HxCDF	89.6	26 - 152	
1,2,3,6,7,8-HxCDF	0.744			J	13C-1,2,3,6,7,8-HxCDF	81.2	26 - 123	
2,3,4,6,7,8-HxCDF	0.336			J	13C-2,3,4,6,7,8-HxCDF	88.3	28 - 136	
1,2,3,7,8,9-HxCDF	0.113			J, B	13C-1,2,3,7,8,9-HxCDF	91.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	2.14			J	13C-1,2,3,4,6,7,8-HpCDF	74.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.485			J, B	13C-1,2,3,4,7,8,9-HpCDF	94.7	26 - 138	
OCDF	5.06			B	13C-OCDF	82.9	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	92.5	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 1.46

TOTALS								
Total TCDD	2.12		2.49					
Total PeCDD	1.29		1.86					
Total HxCDD	3.97							
Total HpCDD	23.8			B				
Total TCDF	14.3		14.8					
Total PeCDF	8.62							
Total HxCDF	6.88			B				
Total HpCDF	5.90			B				

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-011SC-A-06-07-201111 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002532-13 Date Received: 17-Nov-2020 10:43
Project: GascoSiltronic: US Moorings	Sample Size: 15.4 g	QC Batch: B0L0082 Date Extracted: 12-Dec-2020 10:53
Date Collected: 11-Nov-2020 13:25	% Solids: 65.7	Date Analyzed: 20-Dec-20 18:51 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0332			IS 13C-2,3,7,8-TCDD	92.8	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0703			13C-1,2,3,7,8-PeCDD	105	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0704			13C-1,2,3,4,7,8-HxCDD	101	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0752			13C-1,2,3,6,7,8-HxCDD	94.0	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0749			13C-1,2,3,7,8,9-HxCDD	92.2	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.795			J, B	13C-1,2,3,4,6,7,8-HpCDD	94.6	23 - 140	
OCDD	ND	0.155			13C-OCDD	73.4	17 - 157	
2,3,7,8-TCDF	0.110			J	13C-2,3,7,8-TCDF	96.8	24 - 169	
1,2,3,7,8-PeCDF	ND		0.0465		13C-1,2,3,7,8-PeCDF	109	24 - 185	
2,3,4,7,8-PeCDF	ND		0.0411		13C-2,3,4,7,8-PeCDF	107	21 - 178	
1,2,3,4,7,8-HxCDF	0.0956			J	13C-1,2,3,4,7,8-HxCDF	93.3	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0424			13C-1,2,3,6,7,8-HxCDF	84.5	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0462			13C-2,3,4,6,7,8-HxCDF	90.7	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0545			13C-1,2,3,7,8,9-HxCDF	91.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND		0.133		13C-1,2,3,4,6,7,8-HpCDF	69.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0350			13C-1,2,3,4,7,8,9-HpCDF	91.3	26 - 138	
OCDF	0.338			J, B	13C-OCDF	72.6	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	92.3	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.0286

TOTALS								
Total TCDD	0.0630							
Total PeCDD	ND	0.0703						
Total HxCDD	0.298							
Total HpCDD	1.95			B				
Total TCDF	0.233							
Total PeCDF	ND		0.0876					
Total HxCDF	0.209			B				
Total HpCDF	ND		0.276					

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-011SC-A-07-08-201111 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002532-14 Date Received: 17-Nov-2020 10:43
Project: GascoSiltronic: US Moorings	Sample Size: 15.5 g	QC Batch: B0L0082 Date Extracted: 12-Dec-2020 10:53
Date Collected: 11-Nov-2020 13:25	% Solids: 65.0	Date Analyzed: 20-Dec-20 19:35 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	94.4	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0558			13C-1,2,3,7,8-PeCDD	105	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0648			13C-1,2,3,4,7,8-HxCDD	101	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0667			13C-1,2,3,6,7,8-HxCDD	92.7	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0686			13C-1,2,3,7,8,9-HxCDD	92.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.396			J, B	13C-1,2,3,4,6,7,8-HpCDD	94.9	23 - 140	
OCDD	4.30			J, B	13C-OCDD	76.5	17 - 157	
2,3,7,8-TCDF	ND	0.0383			13C-2,3,7,8-TCDF	93.9	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0350			13C-1,2,3,7,8-PeCDF	104	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0319			13C-2,3,4,7,8-PeCDF	102	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0475			13C-1,2,3,4,7,8-HxCDF	92.1	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0485			13C-1,2,3,6,7,8-HxCDF	84.5	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0511			13C-2,3,4,6,7,8-HxCDF	88.6	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0626			13C-1,2,3,7,8,9-HxCDF	90.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0649			13C-1,2,3,4,6,7,8-HpCDF	71.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0512			13C-1,2,3,4,7,8,9-HpCDF	92.8	26 - 138	
OCDF	0.298			J, B	13C-OCDF	76.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	95.7	35 - 197	

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

TEQMinWHO2005Dioxin 0.00534

TOTALS								
Total TCDD	ND	0.0346						
Total PeCDD	ND	0.0558						
Total HxCDD	ND	0.0686						
Total HpCDD	0.396		0.710	B				
Total TCDF	ND	0.0383						
Total PeCDF	ND	0.0350						
Total HxCDF	ND		0.120					
Total HpCDF	ND	0.0649						

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

2002532 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-20201111-154027
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-001SC-A-01-02-201111	N	SE	11/11/2020	10:55	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
002	USMPDI-001SC-A-02-03-201111	N	SE	11/11/2020	10:55	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
003	USMPDI-001SC-A-03-04-201111	N	SE	11/11/2020	10:55	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
004	USMPDI-001SC-A-04-05-201111	N	SE	11/11/2020	10:55	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
005	USMPDI-002SC-A-04-05-201111	N	SE	11/11/2020	15:35	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
006	USMPDI-002SC-A-05-06-201111	N	SE	11/11/2020	15:35	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
007	USMPDI-004SC-A-01-02-201111	N	SE	11/11/2020	8:35	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	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: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>
Print Name: <i>JAMES NEUMAN</i>	Print Name: <i>William R. Wright</i>	Print Name:	Print Name:	Print Name:	Print Name:
Company: <i>AG</i>	Company: <i>VAC</i>	Company:	Company:	Company:	Company:
Date/Time: <i>11/12/20 @ 11:00</i>	Date/Time: <i>11/17/20 10:43</i>	Date/Time:	Date/Time:	Date/Time:	Date/Time:

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

2002532

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

Project: GascoSiltronic: US Moorings
Client: NW Natural

COC ID: VISTA-20201111-154027
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
007	USMPDI-004SC-A-01-02-201111	N	SE	11/11/2020	8:35	1	<input type="checkbox"/>	Total solids (VISTA)	SM2540G	30	4°C
008	USMPDI-004SC-A-03-02-201111	N	SE	11/11/2020	8:35	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
009	USMPDI-004SC-A-03-04-201111	N	SE	11/11/2020	8:35	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
010	USMPDI-004SC-A-04-05-201111	N	SE	11/11/2020	8:35	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
011	USMPDI-011SC-A-04-05-201111	N	SE	11/11/2020	13:25	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
012	USMPDI-011SC-A-05-06-201111	N	SE	11/11/2020	13:25	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
013	USMPDI-011SC-A-06-07-201111	N	SE	11/11/2020	13:25	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>James Melton</i>	Signature <i>William R Wright</i>	Signature	Signature	Signature	Signature
Print Name James Melton	Print Name William R Wright	Print Name	Print Name	Print Name	Print Name
Company AG	Company VIAL	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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

2002532

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

Project: GascoSiltronic: US Moorings
Client: NW Natural

COC ID: VISTA-20201111-154027
Sample Custodian: CO
Lab: VISTA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected		Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
				Date	Time						
014	USMPDI-011SC-A-07-08-201111	N	SE	11/11/2020	13:25	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 MAZON	Print Name William R Wright	Print Name	Print Name	Print Name	Print Name
Company A&E	Company VAL	Company	Company	Company	Company
Date/Time 11/12/20 09:10:00	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 #: 2002532 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 8:23</u>		Initials: <u>YK</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# 2002532

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2002532-01	A USMPDI-001SC-A-01-02-201111		11-Nov-20 10:55	Amber Glass, 120 mL	Solid	
2002532-02	A USMPDI-001SC-A-02-03-201111		11-Nov-20 10:55	Amber Glass, 120 mL	Solid	
2002532-03	A USMPDI-001SC-A-03-04-201111		11-Nov-20 10:55	Amber Glass, 120 mL	Solid	
2002532-04	A USMPDI-001SC-A-04-05-201111		11-Nov-20 10:55	Amber Glass, 120 mL	Solid	
2002532-05	A USMPDI-002SC-A-04-05-201111		11-Nov-20 15:35	Amber Glass, 120 mL	Solid	
2002532-06	A USMPDI-002SC-A-05-06-201111		11-Nov-20 15:35	Amber Glass, 120 mL	Solid	
2002532-07	A USMPDI-004SC-A-01-02-201111		11-Nov-20 08:35	Amber Glass, 120 mL	Solid	
2002532-08	A USMPDI-004SC-A-02-03-201111		11-Nov-20 08:35	Amber Glass, 120 mL	Solid	
2002532-09	A USMPDI-004SC-A-03-04-201111		11-Nov-20 08:35	Amber Glass, 120 mL	Solid	
2002532-10	A USMPDI-004SC-A-04-05-201111		11-Nov-20 08:35	Amber Glass, 120 mL	Solid	
2002532-11	A USMPDI-011SC-A-04-05-201111		11-Nov-20 13:25	Amber Glass, 120 mL	Solid	
2002532-12	A USMPDI-011SC-A-05-06-201111		11-Nov-20 13:25	Amber Glass, 120 mL	Solid	
2002532-13	A USMPDI-011SC-A-06-07-201111		11-Nov-20 13:25	Amber Glass, 120 mL	Solid	
2002532-14	A USMPDI-011SC-A-07-08-201111		11-Nov-20 13:25	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 11/18/20

EXTRACTION INFORMATION

Process Sheet
Workorder: 2002532

Prep Expiration: 2021-11-11
 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: BOL0082

Prep Data Entered: DG 12/15/20
Date and Initials

Initial Sequence: SOL0046

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
2002532-01	<input checked="" type="checkbox"/>	USMPDI-001SC-A-01-02-201111	17-Nov-20 10:43	WR-2 H-4	
2002532-02	<input checked="" type="checkbox"/>	USMPDI-001SC-A-02-03-201111	17-Nov-20 10:43	WR-2 H-4	
2002532-03	<input checked="" type="checkbox"/>	USMPDI-001SC-A-03-04-201111	17-Nov-20 10:43	WR-2 H-4	
2002532-04	<input checked="" type="checkbox"/>	USMPDI-001SC-A-04-05-201111	17-Nov-20 10:43	WR-2 H-4	
2002532-05	<input checked="" type="checkbox"/>	USMPDI-002SC-A-04-05-201111	17-Nov-20 10:43	WR-2 H-4	
2002532-06	<input checked="" type="checkbox"/>	USMPDI-002SC-A-05-06-201111	17-Nov-20 10:43	WR-2 H-4	
2002532-07	<input checked="" type="checkbox"/>	USMPDI-004SC-A-01-02-201111	17-Nov-20 10:43	WR-2 H-4	
2002532-08	<input checked="" type="checkbox"/>	USMPDI-004SC-A-02-03-201111	17-Nov-20 10:43	WR-2 H-4	
2002532-09	<input checked="" type="checkbox"/>	USMPDI-004SC-A-03-04-201111	17-Nov-20 10:43	WR-2 H-4	
2002532-10	<input checked="" type="checkbox"/>	USMPDI-004SC-A-04-05-201111	17-Nov-20 10:43	WR-2 H-4	
2002532-11	<input checked="" type="checkbox"/>	USMPDI-011SC-A-04-05-201111	17-Nov-20 10:43	WR-2 H-4	
2002532-12	<input checked="" type="checkbox"/>	USMPDI-011SC-A-05-06-201111	17-Nov-20 10:43	WR-2 H-4	
2002532-13	<input checked="" type="checkbox"/>	USMPDI-011SC-A-06-07-201111	17-Nov-20 10:43	WR-2 H-4	
2002532-14	<input checked="" type="checkbox"/>	USMPDI-011SC-A-07-08-201111	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: DG 12/13/20

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

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

Prep Check In: DG 12/13/20

Spike Reconciled Initials/Date: DG 12/13/20

VialBoxID: GUMDROP

PREPARATION BENCH SHEET

Matrix: Solid

BOL0082

Chemist: DG

Method: 1613 Full List
Method: 8290 2.3.7.8s Only

Prepared using: HRMS - Soxhlet

Prep Date/Time: 12-Dec-20 10:53

Sox	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	Column Packer:	CRS/PS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisol CHEM/ DATE	RS CHEM/WIT DATE
A1	BOL0082-BLK1	NA	(10.00)	DG 12/13/20		IM 12/14/20	N/A	IM 12/14/20	IM 12/14/20	DG 12/15/20	DG RR 12/15/20
A2	BOL0082-BS1	NA	(10.00)								
A3	BOL0082-MS1 2002645-01	10.65	10.78					brown line, brown & green 44%			
A4	BOL0082-MSD1 2002645-01	10.65	10.69								
A5	2002492-09RE1	12.14	12.20					beige & pink lines			
A7	2002532-01	15.54	15.78					brown & red lines; grey, yellow			
A8	2002532-02	14.28	14.33					beige & violet lines			
A9	2002532-03	13.32	13.56					beige & violet lines			
A10	2002532-04	12.28	12.32					beige & pink lines			
A11	2002532-05	14.83	15.08					brown, yellow, brown, green			
B1	2002532-06	15.44	15.47								
B2	2002532-07	17.43	17.52								
B3	2002532-08	17.46	17.55					beige & red lines; grey		I	
B5	2002532-09	17.14	17.26					brown, orange, yellow, black, green			
B6	2002532-10	17.38	17.55					beige & red lines; grey		I	

IS: 20F1101, 10µL (V2)	Cycle Time	APP: SEFUN (SOX) (SDS)	Check Out: DG 12/13/20	Soxhlet Siphoned Chemist/Date: DG 12/13/20	Notes: (A) Thimble looked dry at stop date/time IM 12/14/20 (B) IM 12/14/20 (C) Formed precipitate while being rotovapped/exchanged w/ Hexane IM 12/14/20 (D) 44% in ABSG turned yellow IM 12/14/20 (E) lost one drop of eluted AA column/sample b/c RB fell IM 12/14/20 (F) Slow to elute AA column w/ 20% IM 12/14/20
NS: 20F0107, 10µL (V4)	Start Date/Time: 12/13/20	SOLV: TOLUENE	Check In: DG 12/13/20	Vial Transfer Chemist/Date: DG 12/15/20	
PS/CRS: 20E0701, 10µL (V)	1342	Other: NA	Balance ID: HRMS-8		
RS: 20H2502, 10µL (V6)	Stop Date/Time: 12/14/20	Final Volume(s): 20µL C14			

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

(I) Sharpie get on sample during florisol. DG 12/15/20

PREPARATION BENCH SHEET

Matrix: Solid

B0L0082

Chemist: DG

Method: 1613 Full List
Method: 8290 2.3.7.8s Only

Prepared using: HRMS - Soxhlet

Prep Date/Time: 12-Dec-20 10:53

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
B7	2002532-11	15.66	15.70	DG AM 12/13/20	IM 12/14/20	N/A	IM 12/14/20 ^f	IM 12/14/20	DG 12/15/20	DG PR 12/15/20
B8	2002532-12	14.28	14.34	↓	↓	↓	beige & red lines; grey	↓	Ⓞ	↓
B9	2002532-13	15.22	15.38	↓	↓	↓	beige & violet lines	↓	↓	↓
B10	2002532-14	③ 15.39	15.54	↓	↓	↓	beige & red lines	↓	↓	↓
B11	2002627-01	⑤ 5.36	5.42	↓	↓	↓	beige line	↓	Ⓞ	↓
Ⓐ B12	2002627-02	⑥ 5.71	5.77	↓	↓	↓	↓	↓	↓	↓
Ⓐ C1	2002645-01	10.65	10.74	↓	↓	↓	red line; black, brown, grey, green	↓	↓	↓
C2	2002645-02	10.67	10.70	↓	↓	↓	↓	↓	↓	↓

IS: <u>20F1101, 10µL</u> (V2)	Cycle Time	APP: SEFUN (SOX) (SDS)	Check Out: Chemist/Date: <u>DG 12/13/20</u>	Soxhlet Siphoned Chemist/Date: <u>DG 12/13/20</u>	Notes: Ⓐ thimble looked dry at stop date/time IM 12/14/20 Ⓑ <5% sample spilled after removing SOXHLET IM 12/14/20 Ⓒ IM 12/14/20 Ⓓ sample poured through glass wool to remove sand IM 12/14/20 Ⓔ brown, yellow, black, blue, grey ABSG column IM 12/14/20 Ⓕ Sharpie got on sample during florisil. DG 12/15/20
NS: <u>20F0107, 10µL</u> (V4)	Start Date/Time	SOLV: <u>TOLUENE</u>	Check In: Chemist/Date: <u>DG 12/13/20</u>	Vial Transfer Chemist/Date: <u>DG 12/15/20</u>	
PS/CRS: <u>2060701, 10µL</u> (V)	12/13/20	Other: <u>NA</u>	Balance ID: <u>HRMS-8</u>		
RS: <u>20H2502, 10µL</u> (V6)	1342	Final Volume(s) <u>20µL</u>			
Diox/F PCB PAH PEST PBDE HCB	12/14/20 0637	<u>C14</u>			

Comments:

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

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
2002492-09RE1	12.2 ✓	82.35294	10.0471	20	07-Dec-20 11:51	DG			Sediment	1613 Full List
2002532-01	15.78 ✓	64.36525	10.1568 ✓	20	12-Dec-20 10:53	ACO			Sediment	1613 Full List
2002532-02	14.33 ✓	70.02584	10.0347 ✓	20	12-Dec-20 10:53	ACO			Sediment	1613 Full List
2002532-03	13.56 ✓	75.07507	10.1802 ✓	20	12-Dec-20 10:53	ACO			Sediment	1613 Full List
2002532-04	12.32 ✓	81.41361	10.0302 ✓	20	12-Dec-20 10:53	ACO			Sediment	1613 Full List
2002532-05	15.08 ✓	67.44791	10.1711 ✓	20	12-Dec-20 10:53	ACO			Sediment	1613 Full List
2002532-06	15.47 ✓	64.76427	10.0190 ✓	20	12-Dec-20 10:53	ACO			Sediment	1613 Full List
2002532-07	17.52 ✓	57.36842	10.0509 ✓	20	12-Dec-20 10:53	ACO			Sediment	1613 Full List
2002532-08	17.55 ✓	57.25807	10.0488 ✓	20	12-Dec-20 10:53	ACO			Sediment	1613 Full List
2002532-09	17.26 ✓	58.33333	10.0683 ✓	20	12-Dec-20 10:53	ACO			Sediment	1613 Full List
2002532-10	17.55 ✓	57.52689	10.0960 ✓	20	12-Dec-20 10:53	ACO			Sediment	1613 Full List
2002532-11	15.7 ✓	63.84615	10.0238 ✓	20	12-Dec-20 10:53	ACO			Sediment	1613 Full List
2002532-12	14.34 ✓	70.04951	10.0451 ✓	20	12-Dec-20 10:53	ACO			Sediment	1613 Full List
2002532-13	15.38 ✓	65.72165	10.1080 ✓	20	12-Dec-20 10:53	ACO			Sediment	1613 Full List
2002532-14	15.54 ✓	64.96163	10.0950 ✓	20	12-Dec-20 10:53	ACO			Sediment	1613 Full List
2002627-01	5.42 ✓	93.34028	5.0590	20	12-Dec-20 10:53	ACO			Solid	1613 Full List
2002627-02	5.77 ✓	87.62791	5.0561	20	12-Dec-20 10:53	ACO			Solid	1613 Full List
2002645-01	10.74 ✓	93.90244	10.0851	20	12-Dec-20 10:53	ACO			Soil	1613 Full List
2002645-01	10.74			20	12-Dec-20 10:53	ACO			Soil	8290 2,3,7,8s Only
2002645-02	10.7 ✓	93.73602	10.0298	20	12-Dec-20 10:53	ACO			Soil	8290 2,3,7,8s Only
B0L0082-BLK1	10			20	12-Dec-20 10:53	ACO				QC
B0L0082-BS1	10			20	12-Dec-20 10:53	ACO	20F0107 ✓	10 ✓		QC
B0L0082-MS1	10.78 ✓	93.34028 93.90244	10.1227	20	12-Dec-20 10:53	ACO	20F0107 ✓	10 ✓		QC
B0L0082-MSD1	10.69 ✓	93.34028 93.90244	10.0382	20	12-Dec-20 10:53	ACO	20F0107 ✓	10 ✓		QC

GRB
12/21/2020

All bolded data on report verified against written benchsheet by (initial/date) DG 12/15/20

Percent Moisture/ Percent Solids

D2216-90

BATCH ID BOK0217

Analyst: IM ✓	Test Code: %Moist/%Solids	Data Entry Verified by: (Initial and Date) <u>DG 12/13/20</u>
Analyte: Dried at 110°C +/- 5°C	Units: %	
Oven ID: 01 <u>02</u> ✓		

Inst HRMS-9 ✓ Date/Time IN: 12/01/20 1250 Date/Time OUT: 12/02/20 0800

Particle Size	SampleID	SampType	Initial and Date:		F		H	I	K		M			P
			Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	IM 12/01/20 ✓	AO 12/02/20 ✓			Visual Inspection	Cl-	pH Before	pH After	Acid Added	
	2002532-01	A	1.2700 ✓	5.7600 ✓	4.1600 ✓	2.8900	64.37	MUD ✓	NA	NA	NA	NA	X	
	2002532-02	A	1.2600 ✓	5.1300 ✓	3.9700 ✓	2.7100	70.03	SAND ✓	NA	NA	NA	NA	X	
	2002532-03	A	1.2600 ✓	4.5900 ✓	3.7600 ✓	2.5000	75.08	SAND ✓	NA	NA	NA	NA	X	
	2002532-04	A	1.2600 ✓	5.0800 ✓	4.3700 ✓	3.1100	81.41	SAND ✓	NA	NA	NA	NA	X	
	2002532-05	A	1.2700 ✓	5.1100 ✓	3.8600 ✓	2.5900	67.45	MUD ✓	NA	NA	NA	NA	X	
	2002532-06	A	1.2600 ✓	5.2900 ✓	3.8700 ✓	2.6100	64.76	MUD ✓	NA	NA	NA	NA	X	
	2002532-07	A	1.2600 ✓	5.0600 ✓	3.4400 ✓	2.1800	57.37	MUD ✓	NA	NA	NA	NA	X	
	2002532-08	A	1.2700 ✓	4.9900 ✓	3.4000 ✓	2.1300	57.26	MUD ✓	NA	NA	NA	NA	X	
	2002532-09	A	1.2600 ✓	5.3400 ✓	3.6400 ✓	2.3800	58.33	MUD ✓	NA	NA	NA	NA	X	
	2002532-10	A	1.2500 ✓	4.9700 ✓	3.3900 ✓	2.1400	57.53	MUD ✓	NA	NA	NA	NA	X	
	2002532-11	A	1.2500 ✓	5.1500 ✓	3.7400 ✓	2.4900	63.85	MUD ✓	NA	NA	NA	NA	X	
	2002532-12	A	1.2600 ✓	5.3000 ✓	4.0900 ✓	2.8300	70.05	MUD ✓	NA	NA	NA	NA	X	
	2002532-13	A	1.2500 ✓	5.1300 ✓	3.8000 ✓	2.5500	65.72	MUD ✓	NA	NA	NA	NA	X	
	2002532-14	A	1.2600 ✓	5.1700 ✓	3.8000 ✓	2.5400	64.96	MUD ✓	NA	NA	NA	NA	X	

*Sample homogenized in sample container unless otherwise noted.

Percent Moisture/ Percent Solids

D2216-90

BATCH ID B0K0217

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

Inst HRMS-9 Date/Time IN: 12/01/20 1250 Date/Time OUT: 12/02/20 800

Particle Size	SampID	SampType	Initial and Date:		IM 12/01/20		00 12/02/20		Dry Sample Weight (g)	%Solids RawVal	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)	Visual Inspection	Cl-			pH Before	pH After	Acid Added	Sample Homogenized*				
	2002532-01	A Sample	1.27	5.76	4.10			N/A	N/A	MUD	N/A	N/A	N/A	N/A			X	
	2002532-02	T Sample	1.26	5.13	3.97			T	T	SAND	T	T	T	T			X	
	2002532-03	T Sample	1.26	4.59	3.70			T	T	T	T	T	T	T			X	
	2002532-04	T Sample	1.26	5.08	4.37			T	T	T	T	T	T	T			X	
	2002532-05	T Sample	1.27	5.11	3.80			T	T	MUD	T	T	T	T			X	
	2002532-06	T Sample	1.26	5.29	3.87			T	T	T	T	T	T	T			X	
	2002532-07	T Sample	1.26	5.06	3.44			T	T	T	T	T	T	T			X	
	2002532-08	T Sample	1.27	4.99	3.40			T	T	T	T	T	T	T			X	
	2002532-09	T Sample	1.26	5.34	3.64			T	T	T	T	T	T	T			X	
	2002532-10	T Sample	1.25	4.97	3.39			T	T	T	T	T	T	T			X	
	2002532-11	T Sample	1.25	5.15	3.74			T	T	T	T	T	T	T			X	
	2002532-12	T Sample	1.26	5.30	4.09			T	T	T	T	T	T	T			X	
	2002532-13	T Sample	1.25	5.13	3.80			T	T	T	T	T	T	T			X	
	2002532-14	T Sample	1.26	5.17	3.80			T	T	T	T	T	T	T			X	

*Sample homogenized in sample container unless otherwise noted.

SAMPLE DATA – EPA METHOD 1613

Dataset: U:\VG12.PRO\Results\201217R4\201217R4_4.qld

Last Altered: Tuesday, December 22, 2020 12:00:36 PM Pacific Standard Time

Printed: Tuesday, December 22, 2020 12:01:09 PM Pacific Standard Time

GRB 12/22/2020

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

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

CT 12/23/2020

Name: 201217R4_4, Date: 17-Dec-2020, Time: 16:46:12, ID: B0L0082-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/Vol	Pred.RT	*RT	(Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD			NO	0.980	10.000	26.381		1.001				0.0101	
2	1,2,3,7,8-PeCDD			NO	0.932	10.000	31.064		1.001				0.0283	
3	1,2,3,4,7,8-HxCDD			NO	1.02	10.000	34.358		1.001				0.0228	
4	1,2,3,6,7,8-HxCDD			NO	0.902	10.000	34.483		1.001				0.0235	
5	1,2,3,7,8,9-HxCDD			NO	0.954	10.000	34.734		1.000				0.0239	
6	1,2,3,4,6,7,8-HpCDD	6.72e2	1.19	NO	0.918	10.000	38.211	38.22	1.000	1.001	0.14152		0.0345	0.142
7	OCDD	4.20e3	0.89	NO	0.866	10.000	41.113	41.12	1.000	1.000	1.3599		0.0730	1.36
8	2,3,7,8-TCDF			NO	0.848	10.000	25.657		1.000				0.00691	
9	1,2,3,7,8-PeCDF			NO	0.960	10.000	29.785		1.000				0.0173	
10	2,3,4,7,8-PeCDF			NO	1.07	10.000	30.874		1.001				0.0171	
11	1,2,3,4,7,8-HxCDF			NO	0.986	10.000	33.447		1.000				0.0182	
12	1,2,3,6,7,8-HxCDF			NO	1.04	10.000	33.582		1.001				0.0179	
13	2,3,4,6,7,8-HxCDF			NO	1.02	10.000	34.253		1.001				0.0197	
14	1,2,3,7,8,9-HxCDF	2.24e2	1.22	NO	0.991	10.000	35.238	35.24	1.000	1.000	0.033198		0.0232	0.0332
15	1,2,3,4,6,7,8-HpCDF			NO	1.05	10.000	36.814		1.000				0.0252	
16	1,2,3,4,7,8,9-HpCDF	1.52e2	1.12	NO	1.18	10.000	38.818	38.84	1.000	1.001	0.031446		0.0122	0.0314
17	OCDF	4.28e2	0.95	NO	0.896	10.000	41.396	41.40	1.000	1.000	0.12407		0.0204	0.124
18	13C-2,3,7,8-TCDD	2.02e6	0.78	NO	1.06	10.000	26.353	26.35	1.030	1.030	201.18	101	0.0774	
19	13C-1,2,3,7,8-PeCDD	1.57e6	0.63	NO	0.785	10.000	31.192	31.03	1.219	1.213	210.30	105	0.118	
20	13C-1,2,3,4,7,8-HxCDD	1.23e6	1.28	NO	0.621	10.000	34.337	34.34	1.014	1.014	223.19	112	0.279	
21	13C-1,2,3,6,7,8-HxCDD	1.38e6	1.27	NO	0.734	10.000	34.459	34.46	1.017	1.017	211.49	106	0.236	
22	13C-1,2,3,7,8,9-HxCDD	1.32e6	1.25	NO	0.723	10.000	34.743	34.72	1.026	1.025	205.79	103	0.240	
23	13C-1,2,3,4,6,7,8-HpCDD	1.03e6	1.04	NO	0.568	10.000	38.243	38.20	1.129	1.128	205.63	103	0.603	
24	13C-OCDD	1.43e6	0.89	NO	0.496	10.000	41.180	41.10	1.216	1.213	324.81	81.2	0.547	
25	13C-2,3,7,8-TCDF	2.63e6	0.77	NO	0.919	10.000	25.652	25.65	1.003	1.003	202.21	101	0.0852	
26	13C-1,2,3,7,8-PeCDF	2.24e6	1.57	NO	0.715	10.000	29.903	29.78	1.169	1.164	220.91	110	0.208	
27	13C-2,3,4,7,8-PeCDF	2.20e6	1.58	NO	0.689	10.000	30.990	30.85	1.212	1.206	225.95	113	0.216	
28	13C-1,2,3,4,7,8-HxCDF	1.52e6	0.50	NO	0.873	10.000	33.442	33.44	0.987	0.987	196.66	98.3	0.305	
29	13C-1,2,3,6,7,8-HxCDF	1.51e6	0.51	NO	0.933	10.000	33.571	33.56	0.991	0.991	182.81	91.4	0.286	
30	13C-2,3,4,6,7,8-HxCDF	1.44e6	0.51	NO	0.843	10.000	34.238	34.23	1.011	1.011	193.06	96.5	0.316	
31	13C-1,2,3,7,8,9-HxCDF	1.36e6	0.51	NO	0.780	10.000	35.238	35.23	1.040	1.040	196.99	98.5	0.342	

Dataset: U:\VG12.PRO\Results\201217R4\201217R4_4.qld

Last Altered: Tuesday, December 22, 2020 12:00:36 PM Pacific Standard Time
Printed: Tuesday, December 22, 2020 12:01:09 PM Pacific Standard Time

Name: 201217R4_4, Date: 17-Dec-2020, Time: 16:46:12, ID: B0L0082-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	ny	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec f	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	9.81e5	0.43	NO	0.726	10.000	36.813	36.80	1.087	1.086	152.39	76.2	0.381	
33	13C-1,2,3,4,7,8,9-HpCDF	8.23e5	0.43	NO	0.491	10.000	38.822	38.81	1.146	1.146	189.18	94.6	0.564	
34	13C-OCDF	1.54e6	0.88	NO	0.565	10.000	41.396	41.39	1.222	1.222	307.57	76.9	0.354	
35	37Cl-2,3,7,8-TCDD	9.00e5			1.22	10.000	26.347	26.36	1.030	1.031	77.619	97.0	0.0243	
36	13C-1,2,3,4-TCDD	1.91e6	0.79	NO	1.00	10.000	25.640	25.58	1.000	1.000	200.00	100	0.0817	
37	13C-1,2,3,4-TCDF	2.83e6	0.79	NO	1.00	10.000	24.130	24.07	1.000	1.000	200.00	100	0.0783	
38	13C-1,2,3,4,6,9-HxCDF	1.77e6	0.51	NO	1.00	10.000	33.920	33.88	1.000	1.000	200.00	100	0.267	
39	Total Tetra-Dioxins				0.980	10.000	24.620		0.000				0.00550	
40	Total Penta-Dioxins				0.932	10.000	29.960		0.000		0.00000		0.00751	0.0708
41	Total Hexa-Dioxins				0.902	10.000	33.635		0.000				0.0138	
42	Total Hepta-Dioxins				0.918	10.000	37.640		0.000		0.22452		0.0345	0.225
43	Total Tetra-Furans				0.848	10.000	23.610		0.000				0.00346	
44	1st Func. Penta-Furans				0.960	10.000	26.930		0.000				0.00286	
45	Total Penta-Furans				0.960	10.000	29.275		0.000				0.0104	
46	Total Hexa-Furans				1.02	10.000	33.555		0.000		0.033198		0.0194	0.0650
47	Total Hepta-Furans				1.05	10.000	37.835		0.000		0.031446		0.0140	0.0314

|||

Dataset: U:\VG12.PRO\Results\201217R4\201217R4_4.qld

Last Altered: Tuesday, December 22, 2020 12:00:36 PM Pacific Standard Time
 Printed: Tuesday, December 22, 2020 12:01:09 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\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201217R4_4, Date: 17-Dec-2020, Time: 16:46:12, ID: B0L0082-BLK1 Method Blank 10, Description: Method Blank

Tetra-Dioxins

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

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Penta-Dioxins	29.60	3.181e3	1.850e4	2.003e2	1.233e3	0.16	YES	0.000e0	0.00000	0.070765	0.0283

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	Total Hepta-Dioxins	37.21	3.389e3	2.698e3	2.021e2	1.920e2	1.05	NO	3.942e2	0.082998	0.082998	0.0345
2	1,2,3,4,6,7,8-HpCDD	38.22	8.529e3	5.420e3	3.658e2	3.064e2	1.19	NO	6.722e2	0.14152	0.14152	0.0345

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\201217R4\201217R4_4.qld

Last Altered: Tuesday, December 22, 2020 12:00:36 PM Pacific Standard Time

Printed: Tuesday, December 22, 2020 12:01:09 PM Pacific Standard Time

Name: 201217R4_4, Date: 17-Dec-2020, Time: 16:46:12, ID: B0L0082-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

Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1,2,3,7,8,9-HxCDF	35.24	3.306e3	3.383e3	1.232e2	1.008e2	1.22	NO	2.240e2	0.033198	0.033198	0.0232
Total Hexa-Furans	35.27	2.972e3	3.321e3	1.216e2	1.151e2	1.06	NO	0.000e0	0.00000	0.031787	0.0194

Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1,2,3,4,7,8,9-HpCDF	38.84	1.557e3	1.685e3	8.046e1	7.179e1	1.12	NO	1.522e2	0.031446	0.031446	0.0122

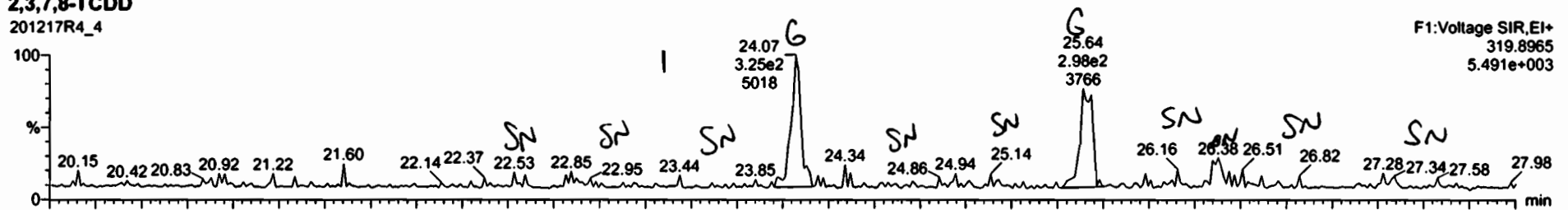
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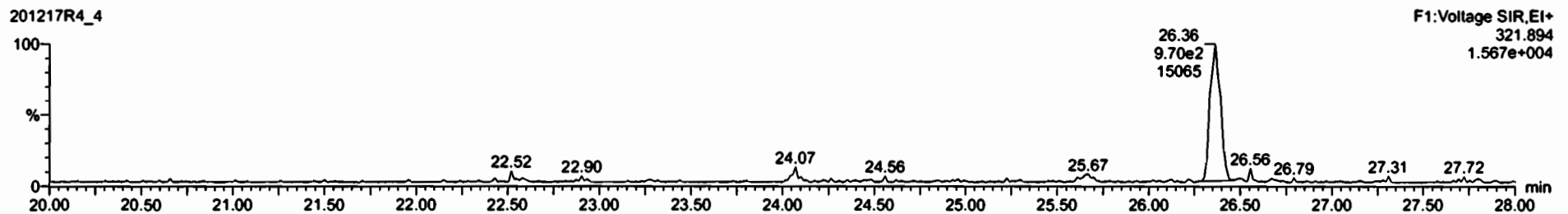
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2,3,7,8-TCDD

201217R4_4

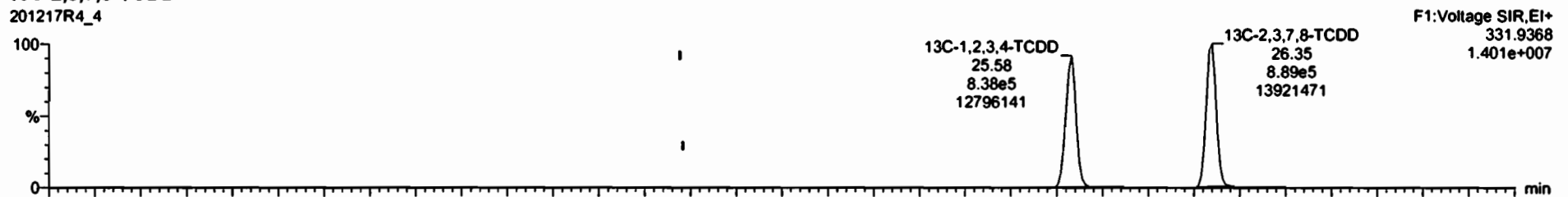


201217R4_4

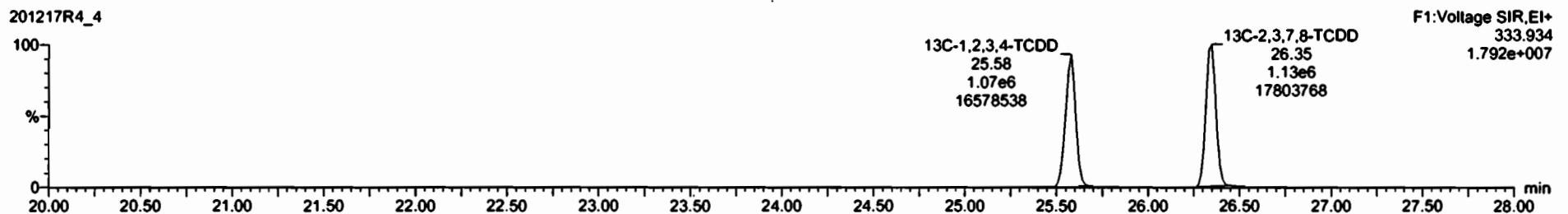


13C-2,3,7,8-TCDD

201217R4_4



201217R4_4



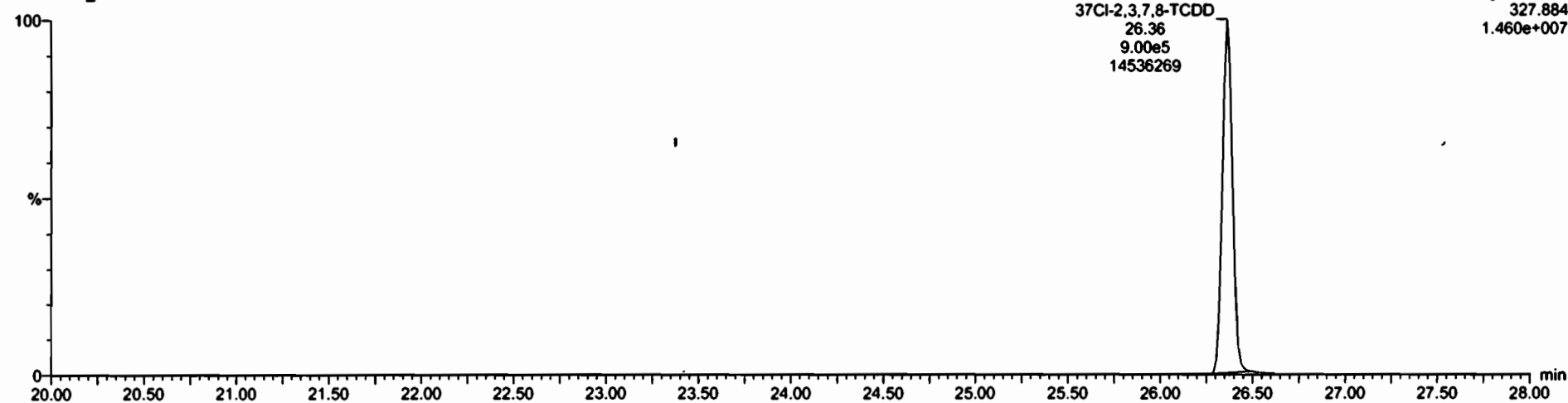
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37Cl-2,3,7,8-TCDD

201217R4_4

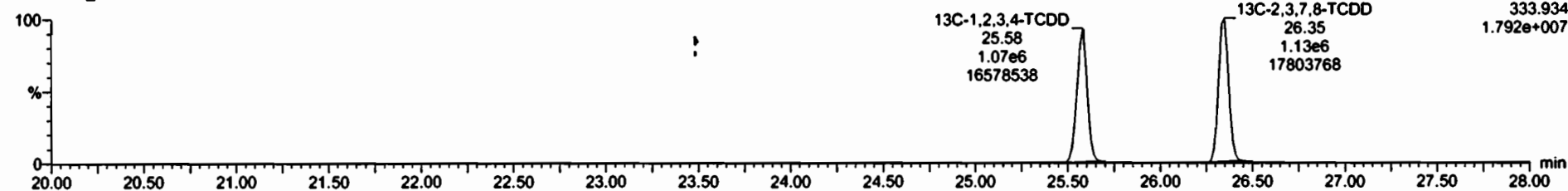


13C-1,2,3,4-TCDD

201217R4_4



201217R4_4



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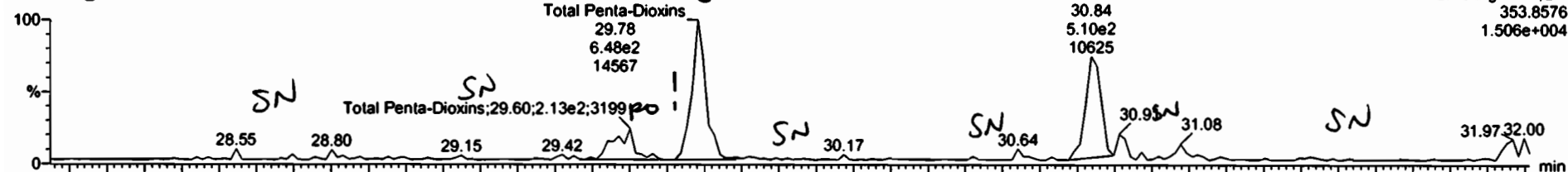
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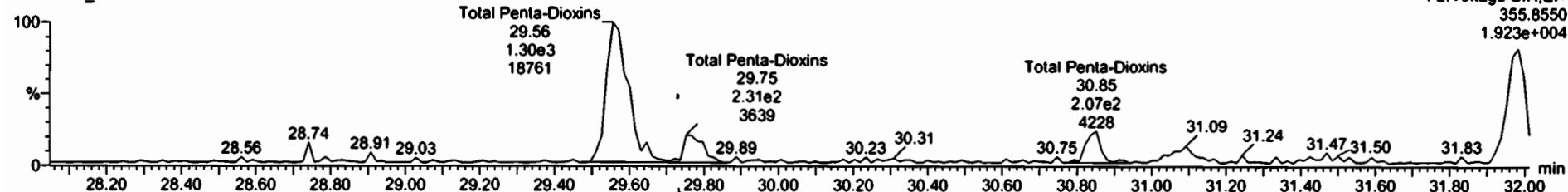
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1,2,3,7,8-PeCDD

201217R4_4



201217R4_4

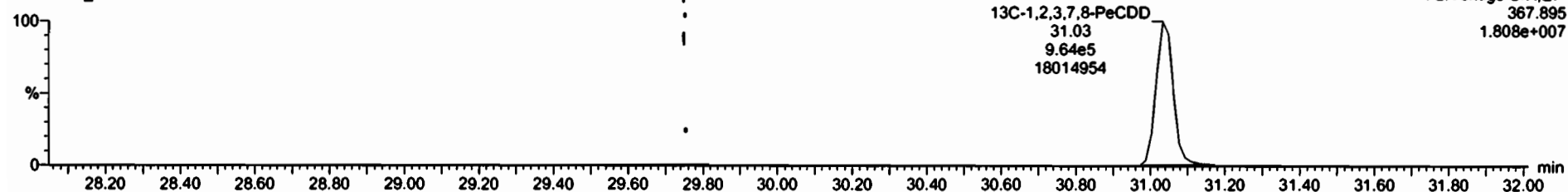


13C-1,2,3,7,8-PeCDD

201217R4_4

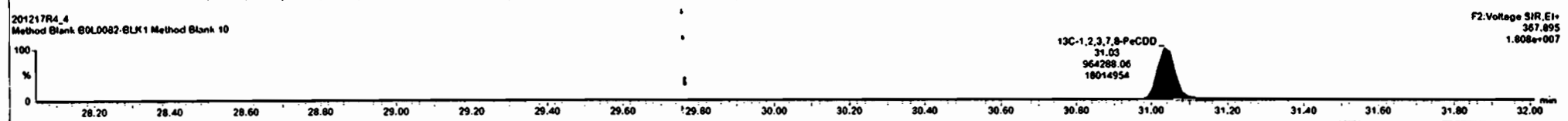
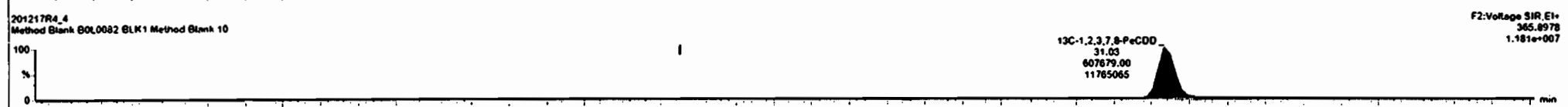
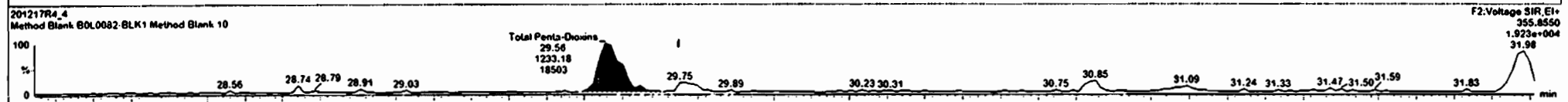
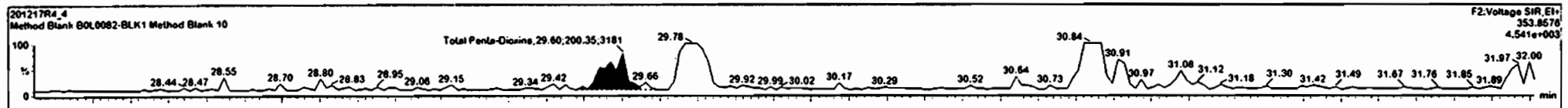


201217R4_4



Name	Resp	RA	n/y	RF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
Total Penta-Dioxins				0.9320	10.000			0.000		0.00751	0.0708

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
Total Penta-Dioxins	29.60	2.803e2	1.233e2	0.1E	YES	0.070765	0.00000



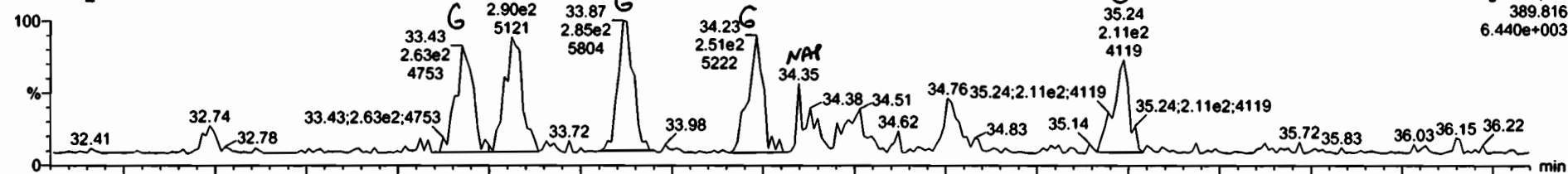
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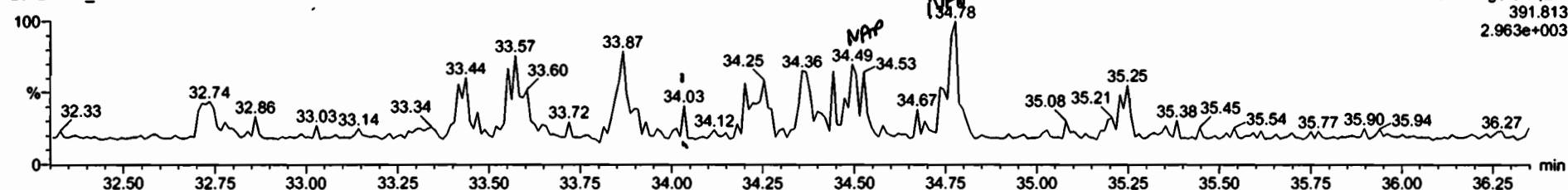
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1,2,3,4,7,8-HxCDD

201217R4_4

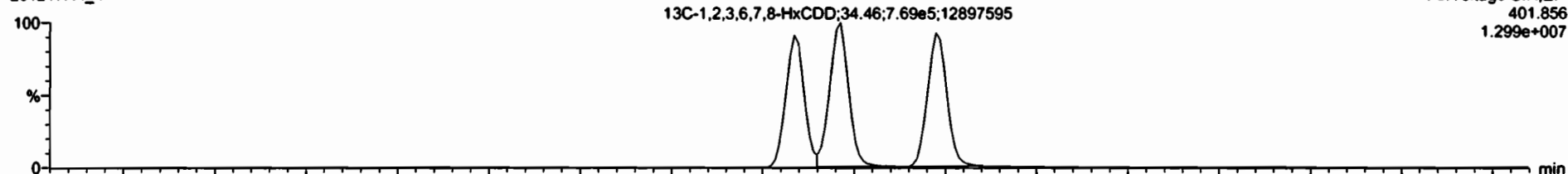


201217R4_4

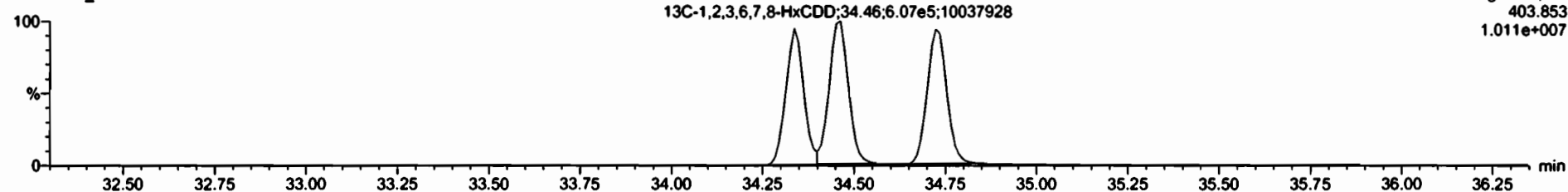


13C-1,2,3,4,7,8-HxCDD

201217R4_4



201217R4_4

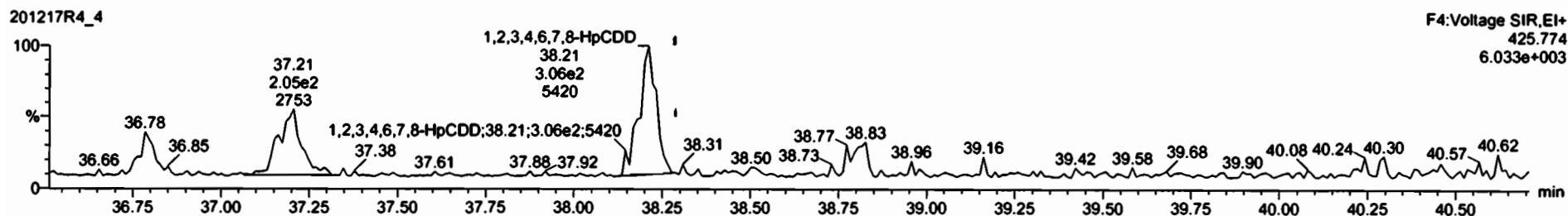
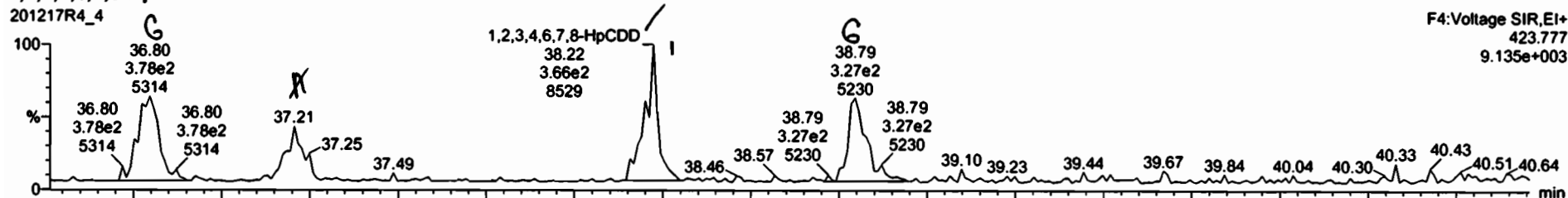


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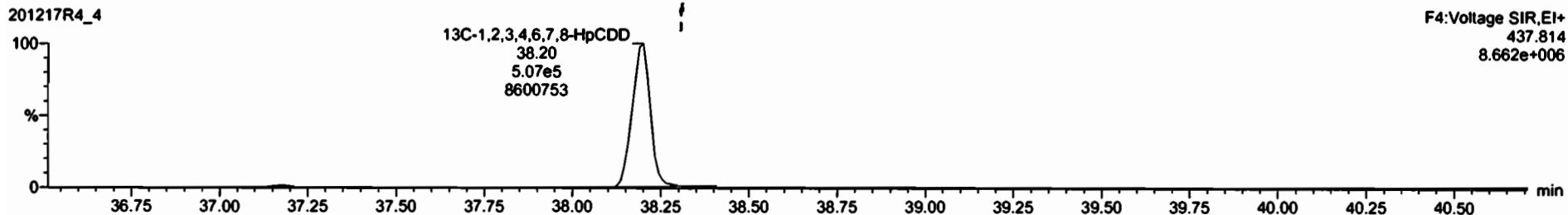
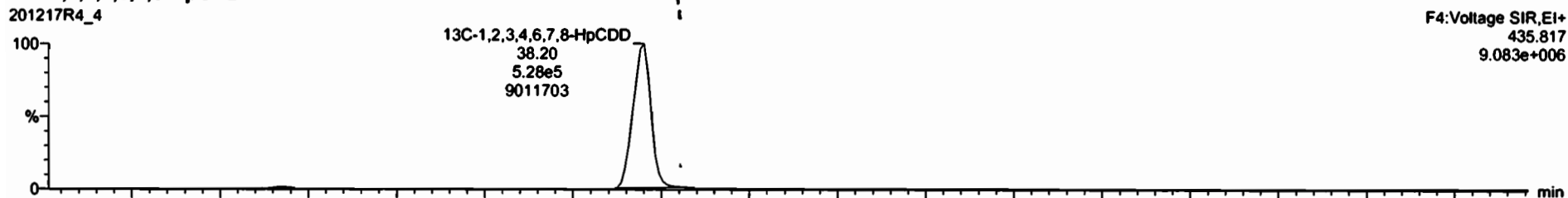
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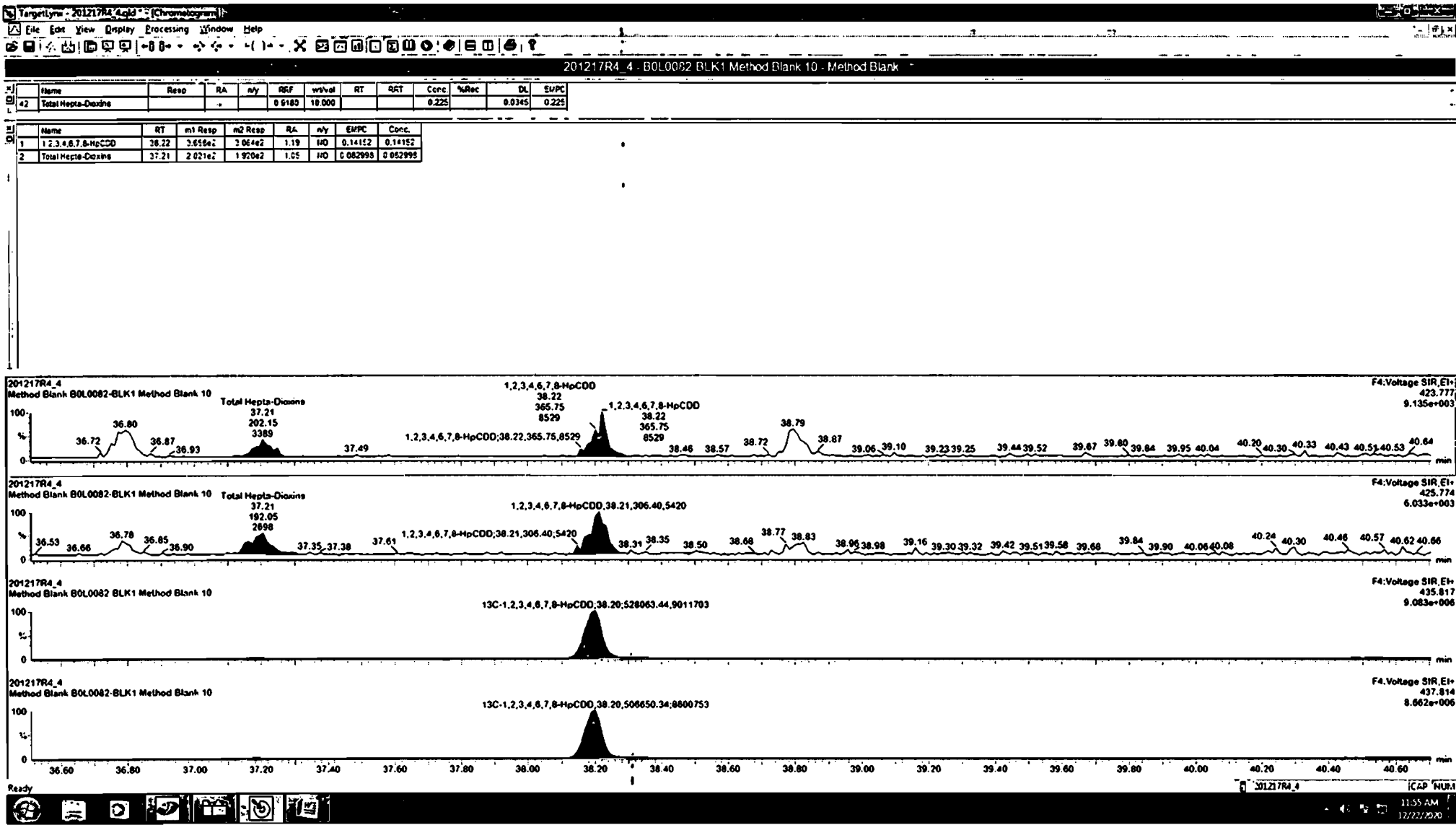
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1,2,3,4,6,7,8-HpCDD



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



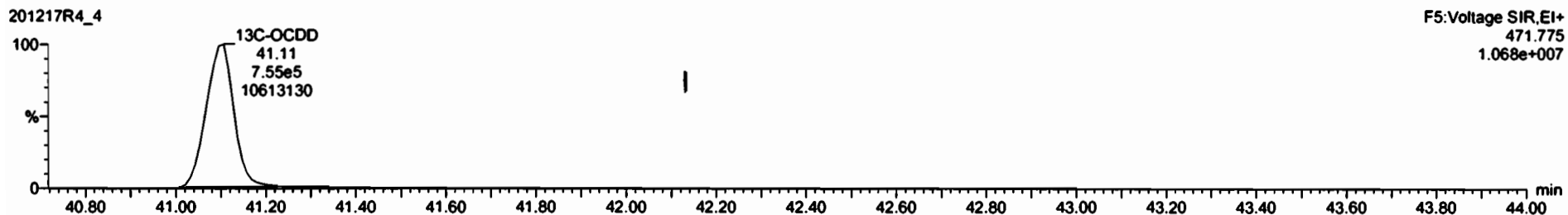
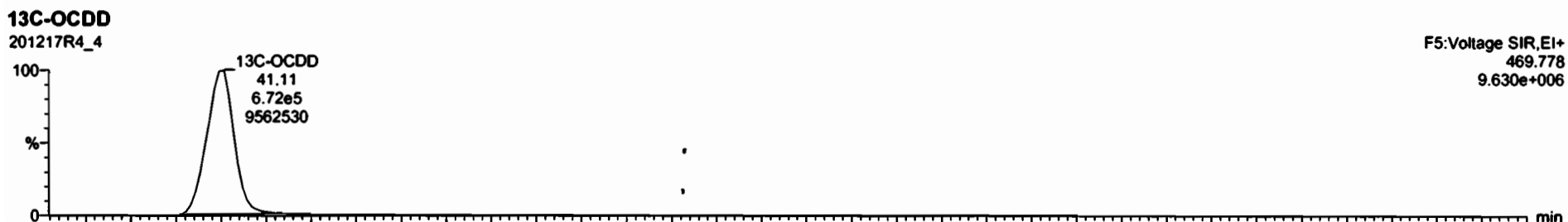
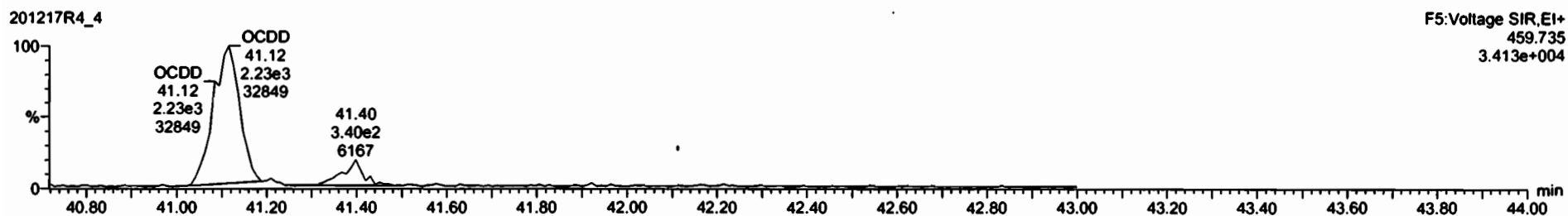
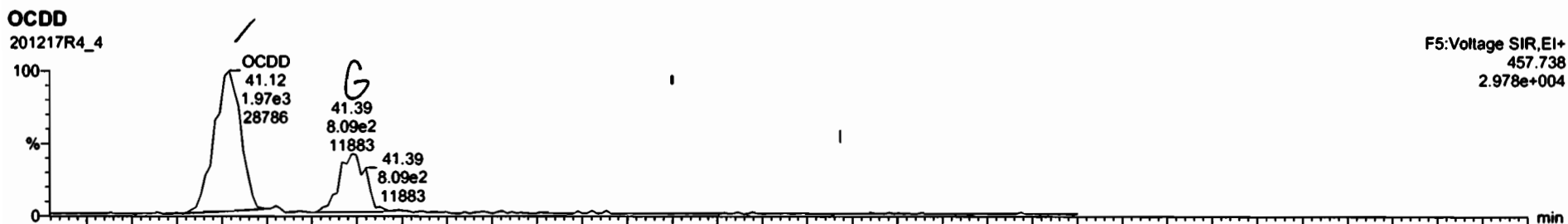


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Last Altered: Friday, December 18, 2020 7:11:37 AM Pacific Standard Time

Printed: Friday, December 18, 2020 7:12:10 AM Pacific Standard Time

Name: 201217R4_4, Date: 17-Dec-2020, Time: 16:46:12, ID: B0L0082-BLK1 Method Blank 10, Description: Method Blank



Dataset: Untitled

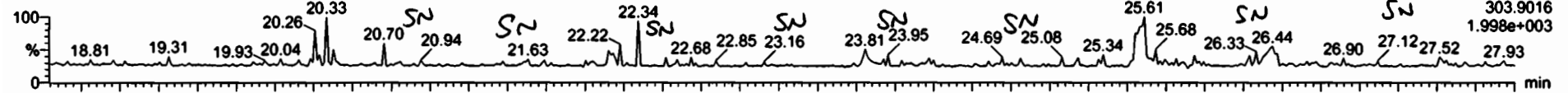
Last Altered: Friday, December 18, 2020 7:11:37 AM Pacific Standard Time

Printed: Friday, December 18, 2020 7:12:10 AM Pacific Standard Time

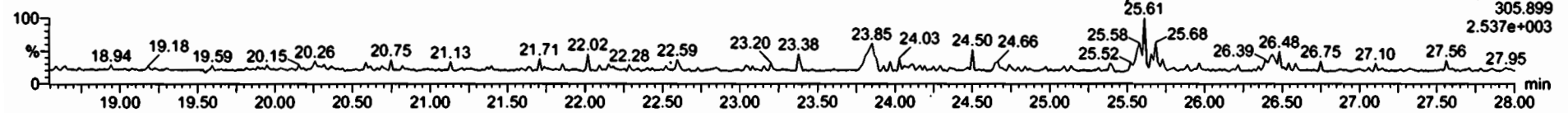
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2,3,7,8-TCDF

201217R4_4

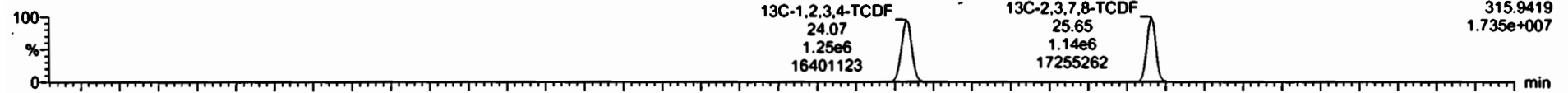


201217R4_4

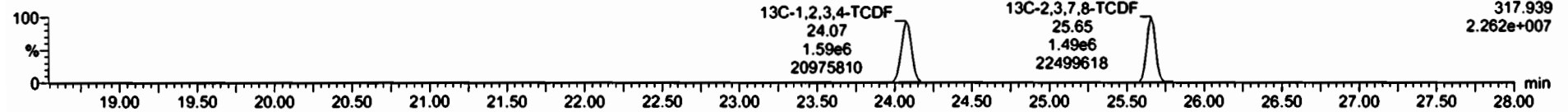


13C-2,3,7,8-TCDF

201217R4_4

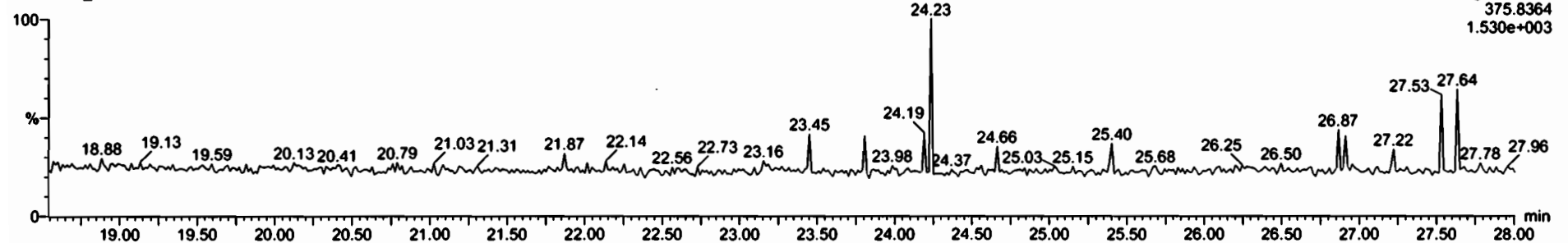


201217R4_4



DPE1

201217R4_4



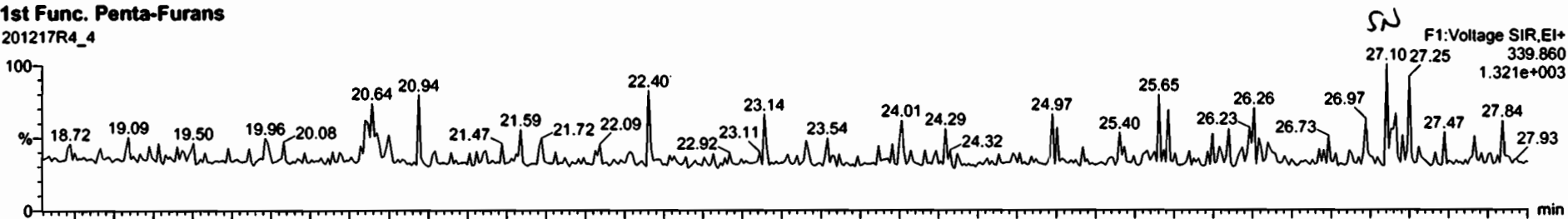
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Printed: Friday, December 18, 2020 7:12:10 AM Pacific Standard Time

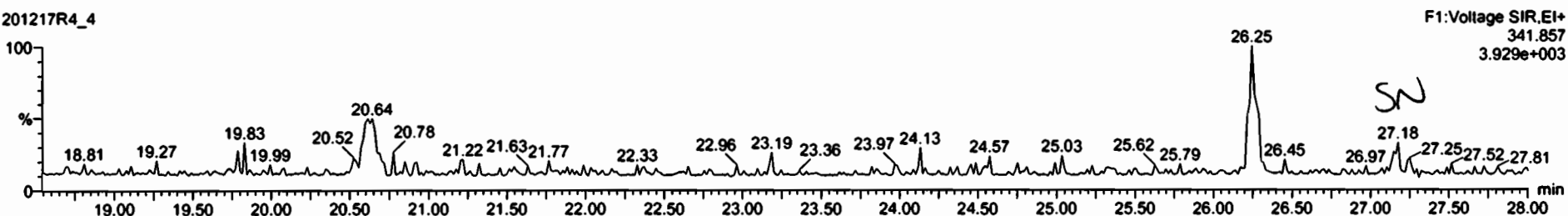
Name: 201217R4_4, Date: 17-Dec-2020, Time: 16:46:12, ID: B0L0082-BLK1 Method Blank 10, Description: Method Blank

1st Func. Penta-Furans

201217R4_4

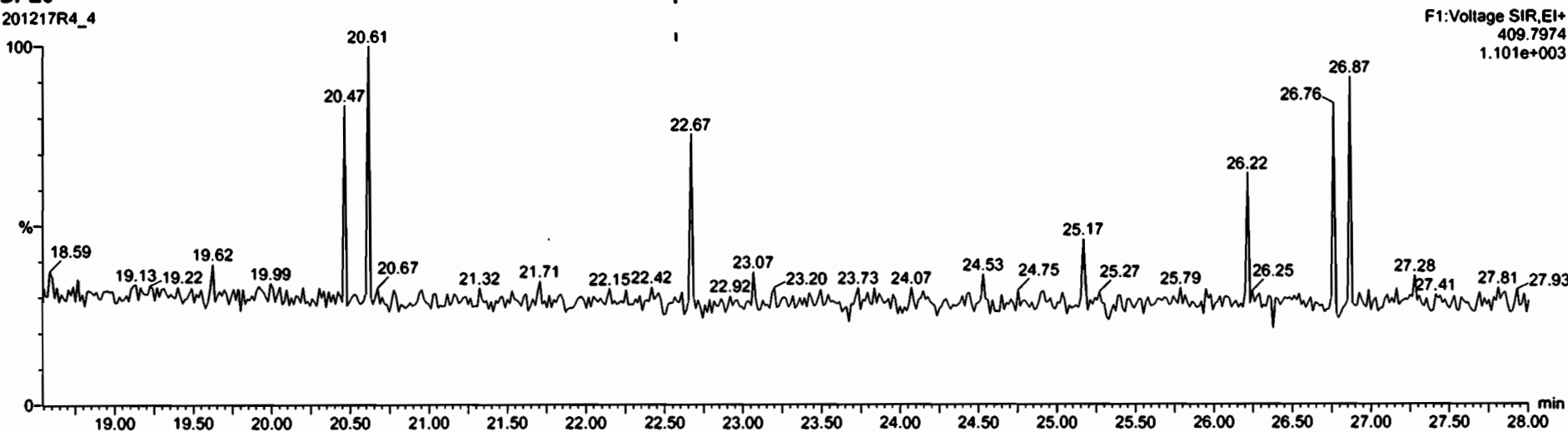


201217R4_4



DPE6

201217R4_4

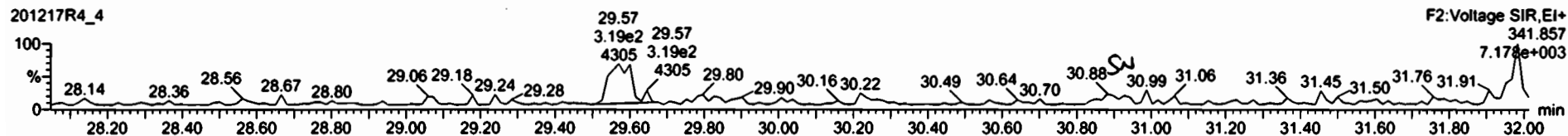
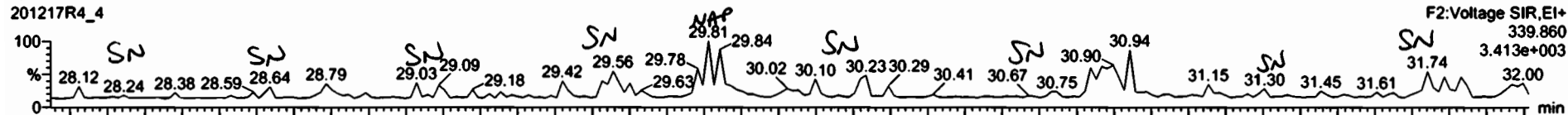


Dataset: Untitled

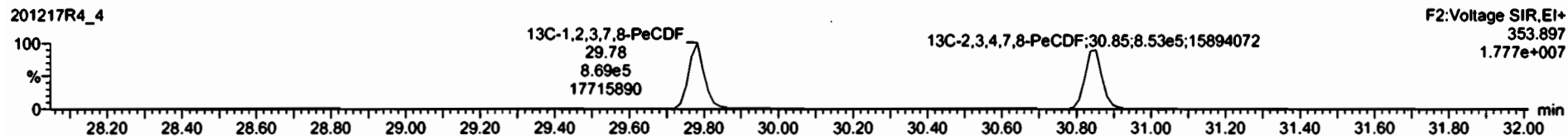
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Name: 201217R4_4, Date: 17-Dec-2020, Time: 16:46:12, ID: B0L0082-BLK1 Method Blank 10, Description: Method Blank

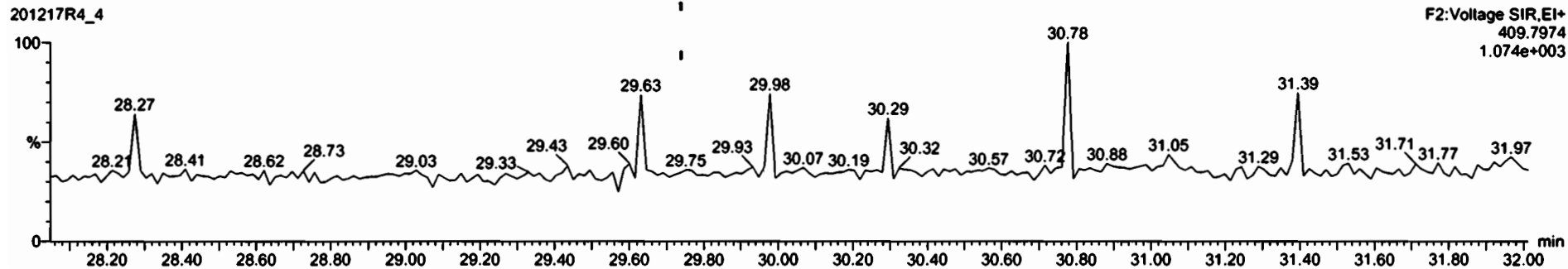
1,2,3,7,8-PeCDF



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



DPE2



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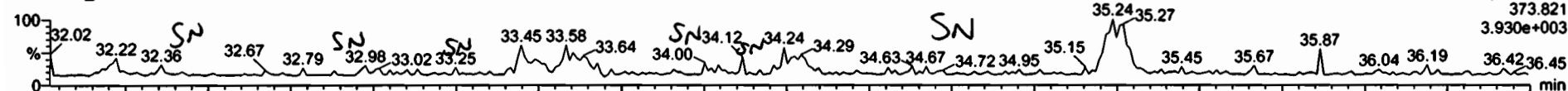
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Printed: Friday, December 18, 2020 7:12:10 AM Pacific Standard Time

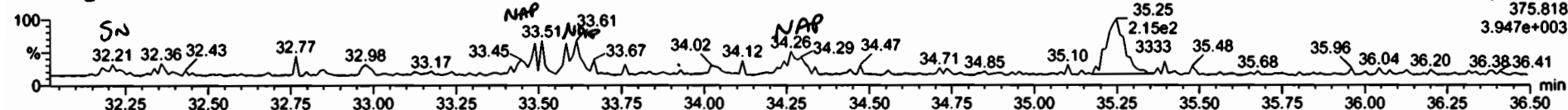
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1,2,3,4,7,8-HxCDF

201217R4_4

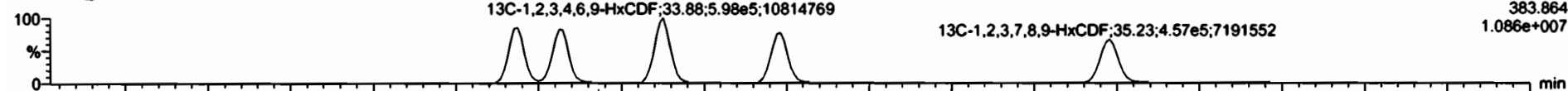


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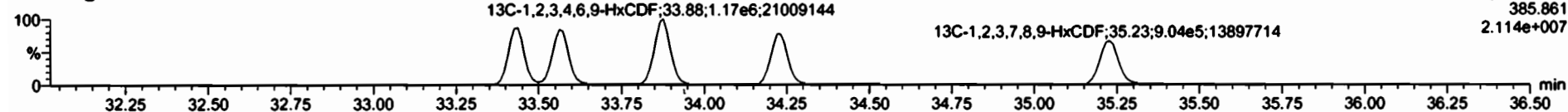


13C-1,2,3,4,7,8-HxCDF

201217R4_4

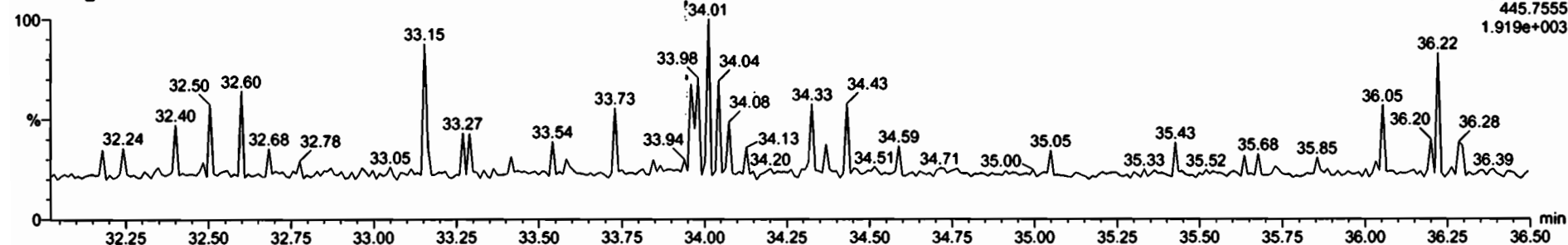


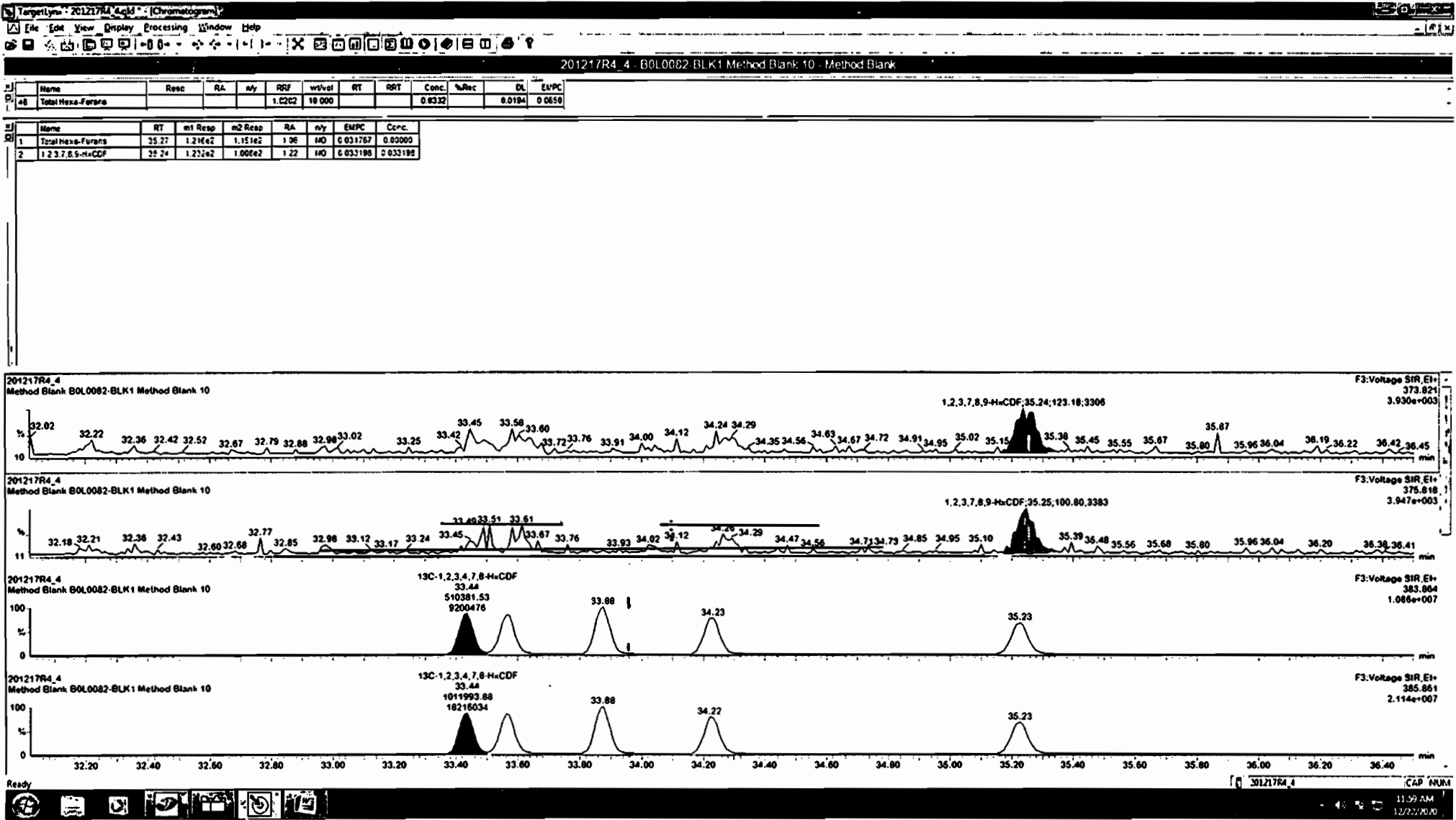
201217R4_4



DPE3

201217R4_4



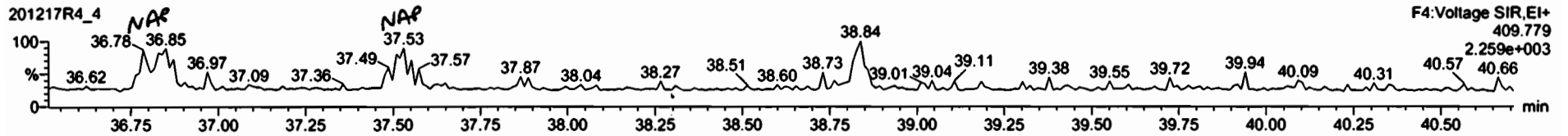
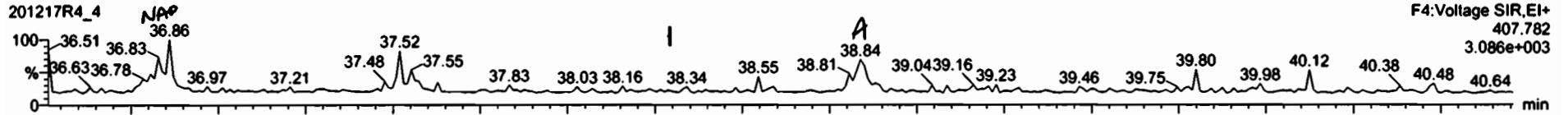


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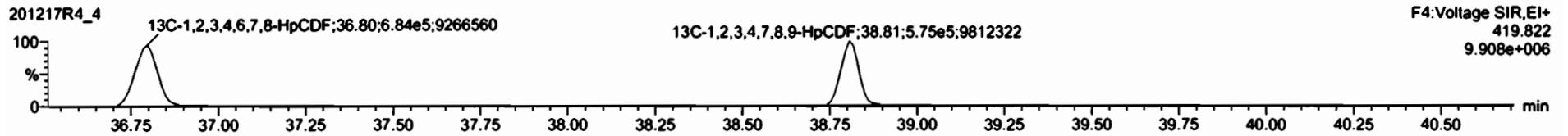
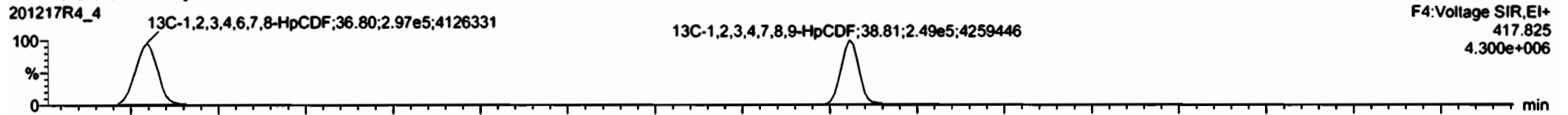
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Printed: Friday, December 18, 2020 7:12:10 AM Pacific Standard Time

Name: 201217R4_4, Date: 17-Dec-2020, Time: 16:46:12, ID: B0L0082-BLK1 Method Blank 10, Description: Method Blank

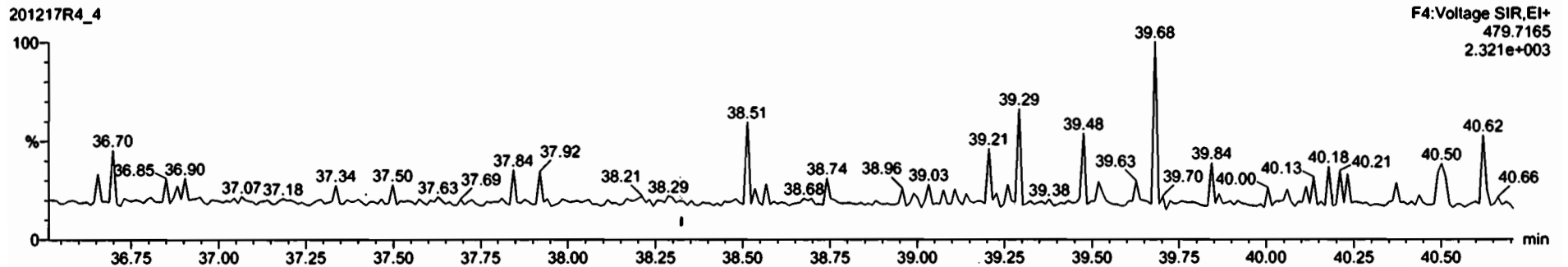
1,2,3,4,6,7,8-HpCDF

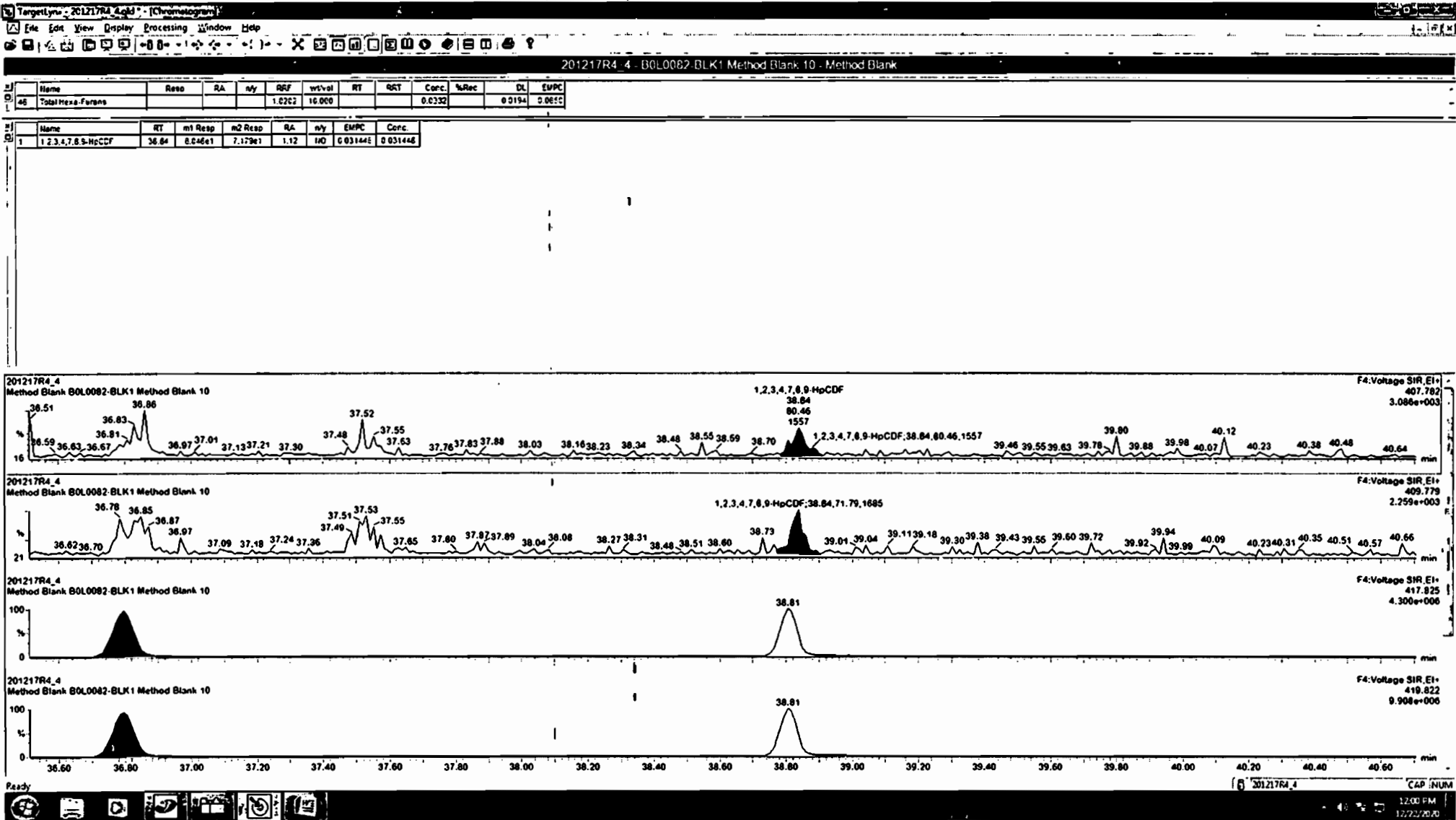


13C-1,2,3,4,6,7,8-HpCDF



DPE4



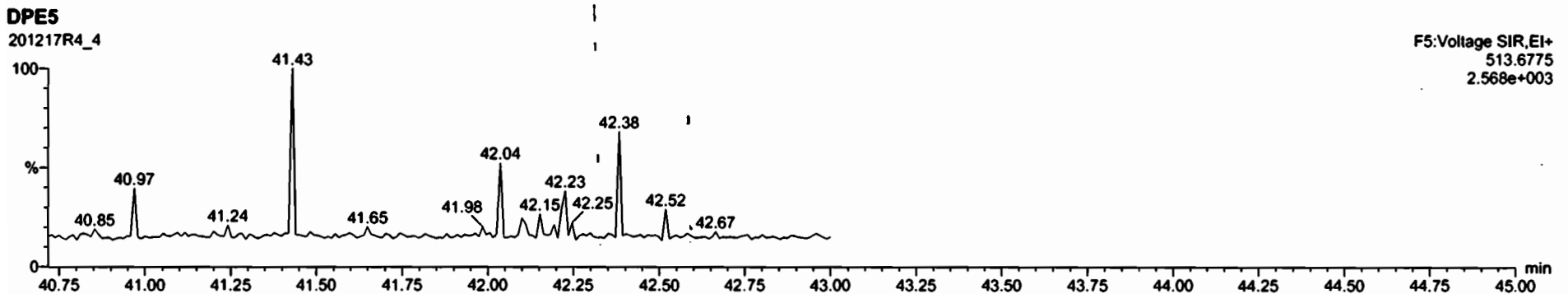
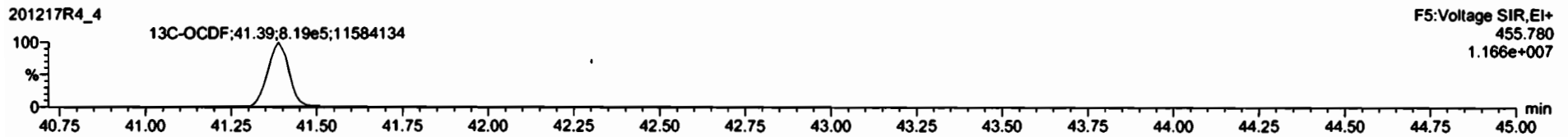
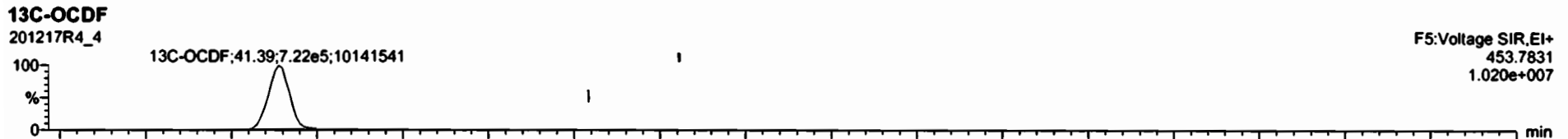
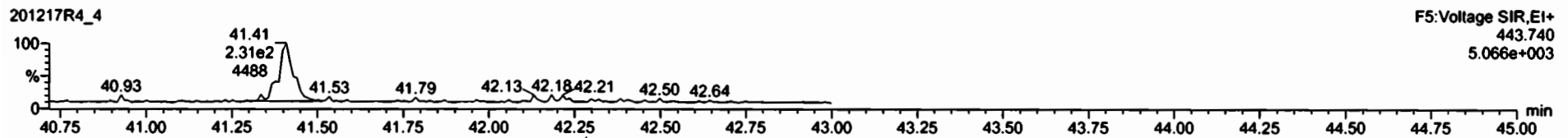
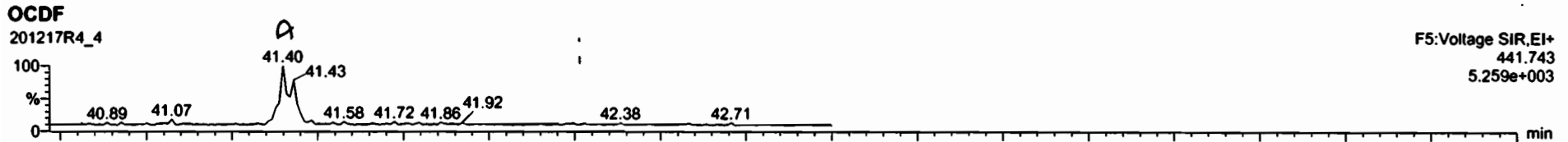


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Last Altered: Friday, December 18, 2020 7:11:37 AM Pacific Standard Time

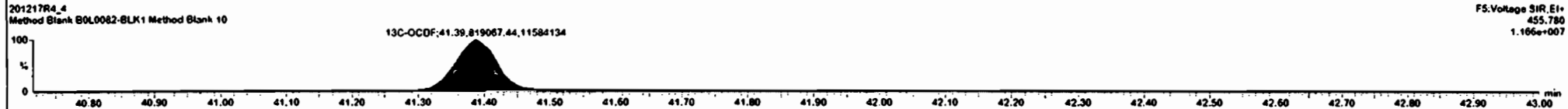
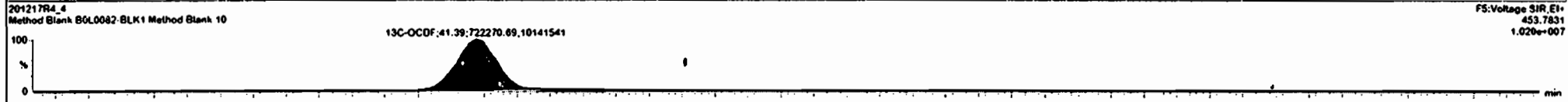
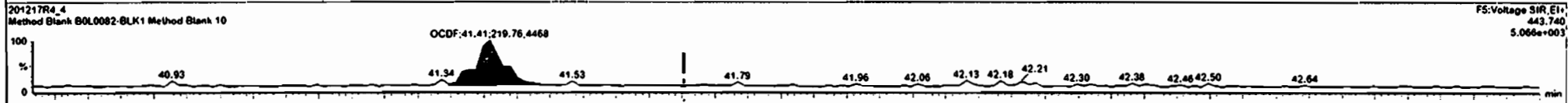
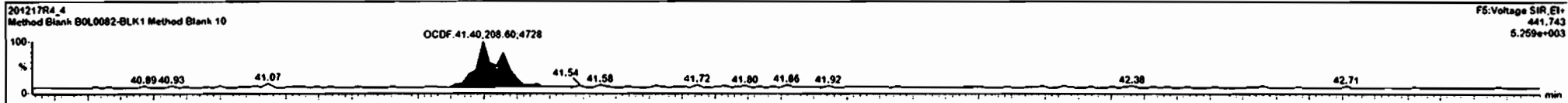
Printed: Friday, December 18, 2020 7:12:10 AM Pacific Standard Time

Name: 201217R4_4, Date: 17-Dec-2020, Time: 16:46:12, ID: B0L0082-BLK1 Method Blank 10, Description: Method Blank



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
17	OCDF	4.26e2	0.95	NO	0.8960	10.000	41.40	1.000	0.124	0.0204	0.124

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



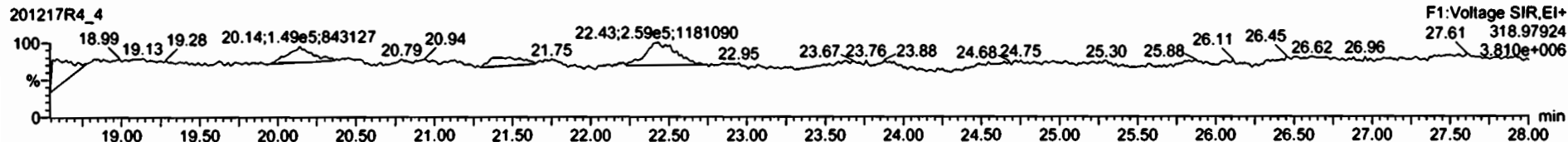
Dataset: Untitled

Last Altered: Friday, December 18, 2020 7:11:37 AM Pacific Standard Time

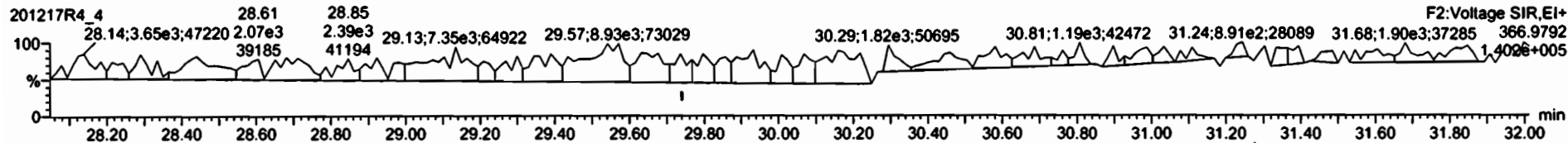
Printed: Friday, December 18, 2020 7:12:10 AM Pacific Standard Time

Name: 201217R4_4, Date: 17-Dec-2020, Time: 16:46:12, ID: B0L0082-BLK1 Method Blank 10, Description: Method Blank

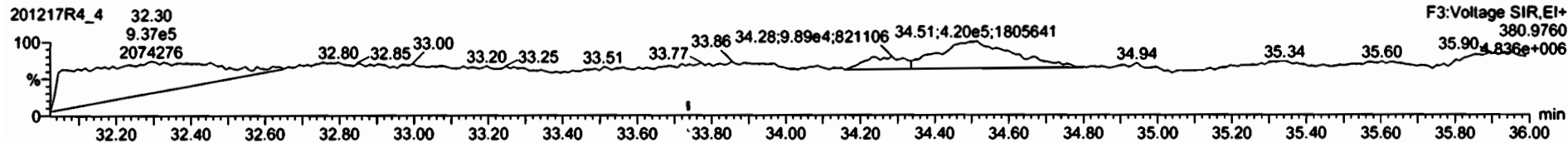
PFK1



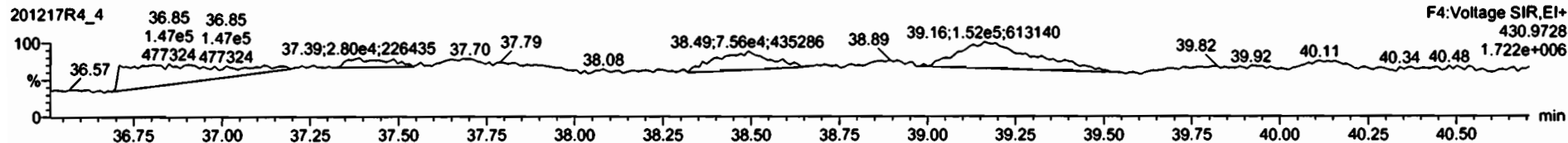
PFK2



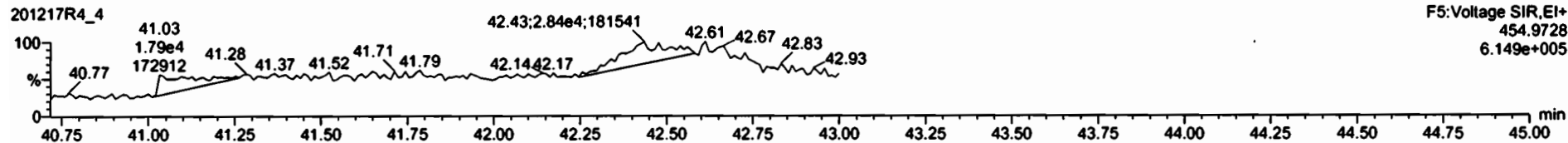
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\201217R4\201217R4_2.qld

Last Altered: Thursday, December 17, 2020 3:58:38 PM Pacific Standard Time
Printed: Tuesday, December 22, 2020 11:50:30 AM Pacific Standard Time

GRB 12/22/2020

Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32
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CT 12/24/2020

Name: 201217R4_2, Date: 17-Dec-2020, Time: 15:13:49, ID: B0L0082-BS1 OPR 10, Description: OPR

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.04e5	0.76	NO	0.980	10.000	26.380	26.36	1.001	1.001	20.965		0.0186	21.0
2	1,2,3,7,8-PeCDD	7.51e5	0.62	NO	0.932	10.000	31.064	31.05	1.001	1.000	106.41		0.0666	106
3	1,2,3,4,7,8-HxCDD	6.34e5	1.24	NO	1.02	10.000	34.357	34.35	1.001	1.000	105.56		0.142	106
4	1,2,3,6,7,8-HxCDD	6.19e5	1.24	NO	0.902	10.000	34.472	34.47	1.001	1.001	103.24		0.147	103
5	1,2,3,7,8,9-HxCDD	6.15e5	1.24	NO	0.954	10.000	34.734	34.73	1.000	1.000	101.79		0.152	102
6	1,2,3,4,6,7,8-HpCDD	4.47e5	1.03	NO	0.918	10.000	38.201	38.20	1.000	1.000	97.271		0.289	97.3
7	OCDD	6.05e5	0.86	NO	0.866	10.000	41.102	41.10	1.000	1.000	204.15		0.317	204
8	2,3,7,8-TCDF	2.09e5	0.73	NO	0.848	10.000	25.657	25.68	1.000	1.001	18.743		0.0204	18.7
9	1,2,3,7,8-PeCDF	1.08e6	1.54	NO	0.960	10.000	29.784	29.80	1.000	1.000	102.13		0.0651	102
10	2,3,4,7,8-PeCDF	1.18e6	1.55	NO	1.07	10.000	30.858	30.85	1.001	1.000	101.74		0.0622	102
11	1,2,3,4,7,8-HxCDF	7.13e5	1.21	NO	0.986	10.000	33.436	33.44	1.000	1.000	98.002		0.116	98.0
12	1,2,3,6,7,8-HxCDF	7.47e5	1.21	NO	1.04	10.000	33.582	33.57	1.001	1.000	97.997		0.117	98.0
13	2,3,4,6,7,8-HxCDF	6.95e5	1.22	NO	1.02	10.000	34.242	34.24	1.001	1.001	98.285		0.132	98.3
14	1,2,3,7,8,9-HxCDF	6.43e5	1.21	NO	0.991	10.000	35.226	35.24	1.000	1.001	98.509		0.159	98.5
15	1,2,3,4,6,7,8-HpCDF	4.92e5	1.01	NO	1.05	10.000	36.803	36.81	1.000	1.001	96.927		0.288	96.9
16	1,2,3,4,7,8,9-HpCDF	4.75e5	1.02	NO	1.18	10.000	38.817	38.82	1.000	1.000	99.880		0.246	99.9
17	OCDF	6.85e5	0.87	NO	0.896	10.000	41.385	41.40	1.000	1.000	198.69		0.222	199
18	13C-2,3,7,8-TCDD	1.98e6	0.79	NO	1.06	10.000	26.353	26.35	1.030	1.030	203.28	102	0.0498	
19	13C-1,2,3,7,8-PeCDD	1.51e6	0.62	NO	0.785	10.000	31.192	31.03	1.219	1.213	208.93	104	0.113	
20	13C-1,2,3,4,7,8-HxCDD	1.18e6	1.28	NO	0.621	10.000	34.326	34.34	1.014	1.014	227.26	114	0.311	
21	13C-1,2,3,6,7,8-HxCDD	1.33e6	1.26	NO	0.734	10.000	34.448	34.45	1.017	1.017	216.88	108	0.263	
22	13C-1,2,3,7,8,9-HxCDD	1.27e6	1.25	NO	0.723	10.000	34.732	34.72	1.026	1.025	209.84	105	0.267	
23	13C-1,2,3,4,6,7,8-HpCDD	1.00e6	1.05	NO	0.568	10.000	38.231	38.19	1.129	1.128	211.47	106	0.583	
24	13C-OCDD	1.37e6	0.90	NO	0.496	10.000	41.167	41.09	1.216	1.214	330.83	82.7	0.421	
25	13C-2,3,7,8-TCDF	2.62e6	0.77	NO	0.919	10.000	25.652	25.65	1.003	1.003	206.21	103	0.0777	
26	13C-1,2,3,7,8-PeCDF	2.20e6	1.58	NO	0.715	10.000	29.903	29.78	1.169	1.164	221.99	111	0.245	
27	13C-2,3,4,7,8-PeCDF	2.18e6	1.58	NO	0.689	10.000	30.990	30.84	1.212	1.206	228.30	114	0.254	
28	13C-1,2,3,4,7,8-HxCDF	1.48e6	0.50	NO	0.873	10.000	33.432	33.43	0.987	0.987	202.47	101	0.314	
29	13C-1,2,3,6,7,8-HxCDF	1.47e6	0.51	NO	0.933	10.000	33.561	33.56	0.991	0.991	188.35	94.2	0.294	
30	13C-2,3,4,6,7,8-HxCDF	1.39e6	0.50	NO	0.843	10.000	34.228	34.22	1.011	1.010	197.18	98.6	0.325	
31	13C-1,2,3,7,8,9-HxCDF	1.32e6	0.50	NO	0.780	10.000	35.227	35.22	1.040	1.040	202.49	101	0.352	

Dataset: U:\VG12.PRO\Results\201217R4\201217R4_2.qld

Last Altered: Thursday, December 17, 2020 3:58:38 PM Pacific Standard Time
Printed: Tuesday, December 22, 2020 11:50:30 AM Pacific Standard Time

Name: 201217R4_2, Date: 17-Dec-2020, Time: 15:13:49, ID: B0L0082-BS1 OPR 10, Description: OPR

#	Name	Resp	RA	in/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	9.68e5	0.43	NO	0.726	10.000	36.801	36.78	1.087	1.086	159.67	79.8	0.387	
33	13C-1,2,3,4,7,8,9-HpCDF	8.09e5	0.43	NO	0.491	10.000	38.810	38.81	1.146	1.146	197.47	98.7	0.572	
34	13C-OCDF	1.54e6	0.88	NO	0.565	10.000	41.383	41.38	1.222	1.222	326.36	81.6	0.353	
35	37Cl-2,3,7,8-TCDD	8.78e5			1.22	10.000	26.348	26.36	1.030	1.031	78.188	97.7	0.0160	
36	13C-1,2,3,4-TCDD	1.85e6	0.78	NO	1.00	10.000	25.640	25.58	1.000	1.000	200.00	100	0.0525	
37	13C-1,2,3,4-TCDF	2.77e6	0.78	NO	1.00	10.000	24.130	24.09	1.000	1.000	200.00	100	0.0714	
38	13C-1,2,3,4,6,9-HxCDF	1.67e6	0.51	NO	1.00	10.000	33.920	33.87	1.000	1.000	200.00	100	0.274	

Dataset: Untitled

Last Altered: Friday, December 18, 2020 7:11:37 AM Pacific Standard Time

Printed: Friday, December 18, 2020 7:12:10 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\1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

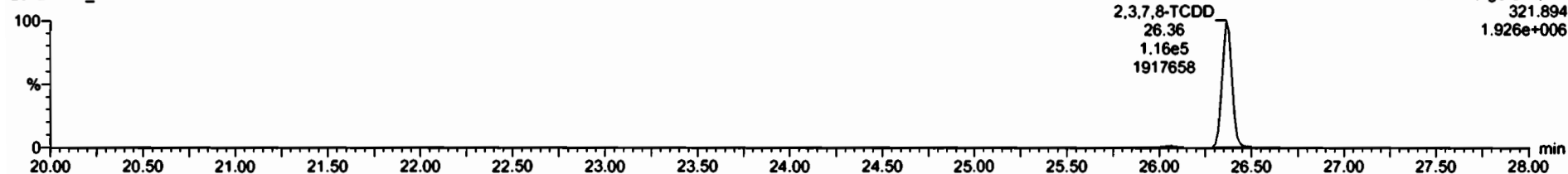
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2,3,7,8-TCDD

201217R4_2



201217R4_2

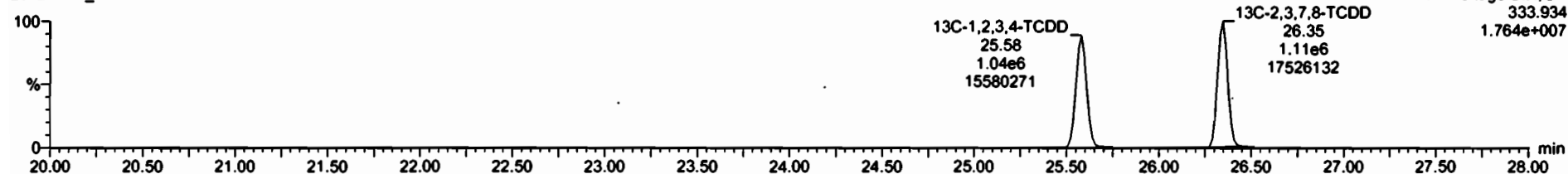


13C-2,3,7,8-TCDD

201217R4_2



201217R4_2



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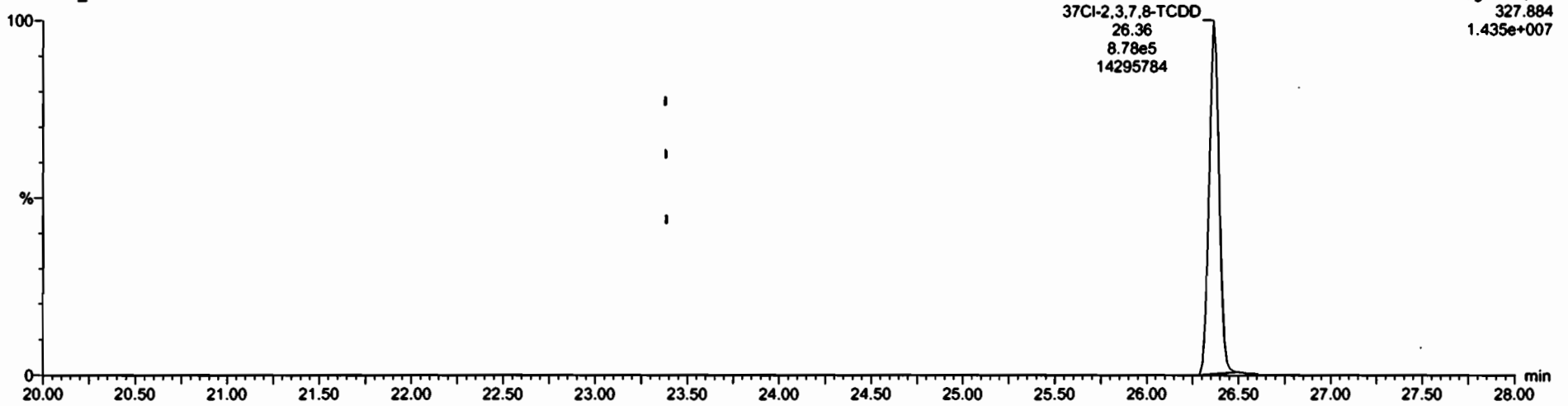
Last Altered: Friday, December 18, 2020 7:11:37 AM Pacific Standard Time

Printed: Friday, December 18, 2020 7:12:10 AM Pacific Standard Time

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

201217R4_2

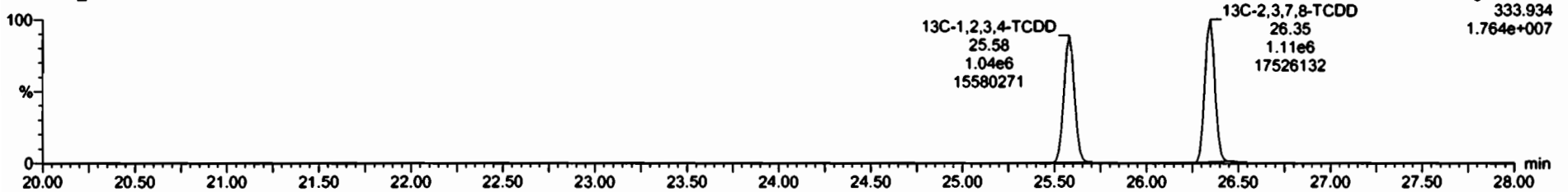


13C-1,2,3,4-TCDD

201217R4_2



201217R4_2



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Last Altered: Friday, December 18, 2020 7:11:37 AM Pacific Standard Time

Printed: Friday, December 18, 2020 7:12:10 AM Pacific Standard Time

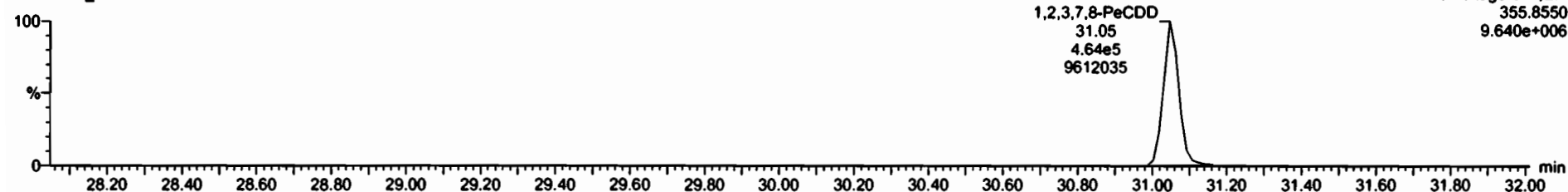
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1,2,3,7,8-PeCDD

201217R4_2



201217R4_2

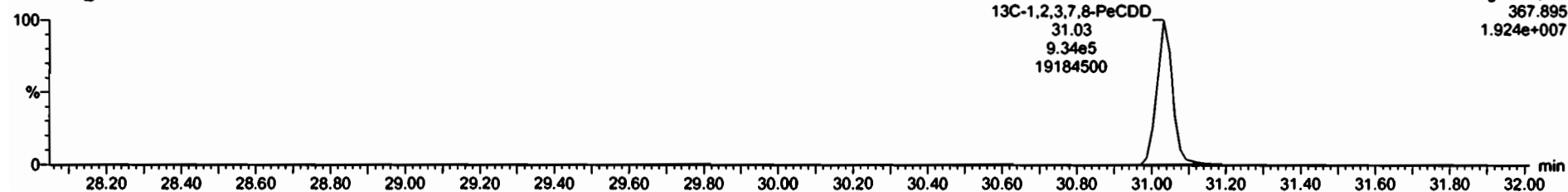


13C-1,2,3,7,8-PeCDD

201217R4_2



201217R4_2



Dataset: Untitled

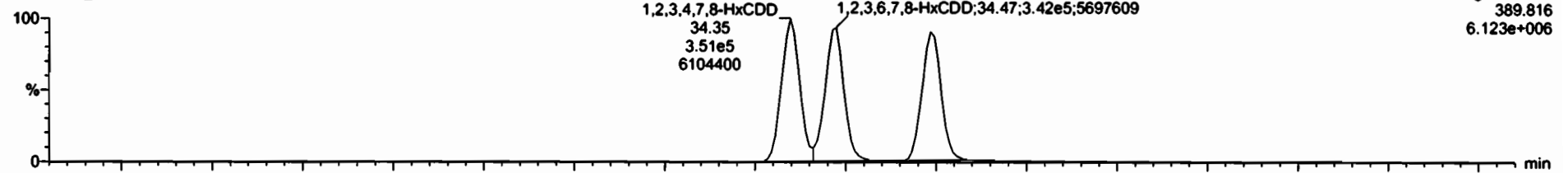
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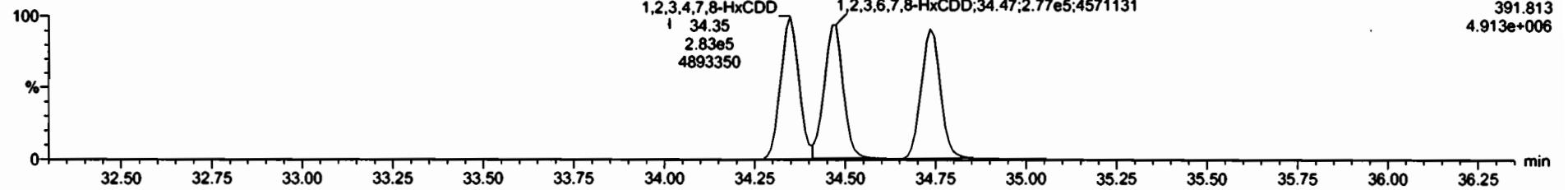
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1,2,3,4,7,8-HxCDD

201217R4_2

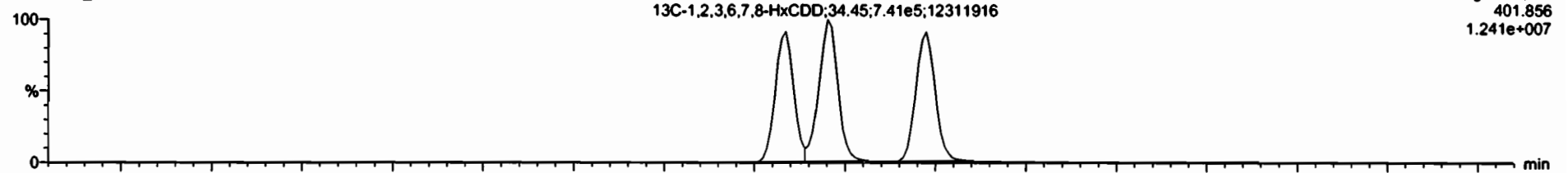


201217R4_2

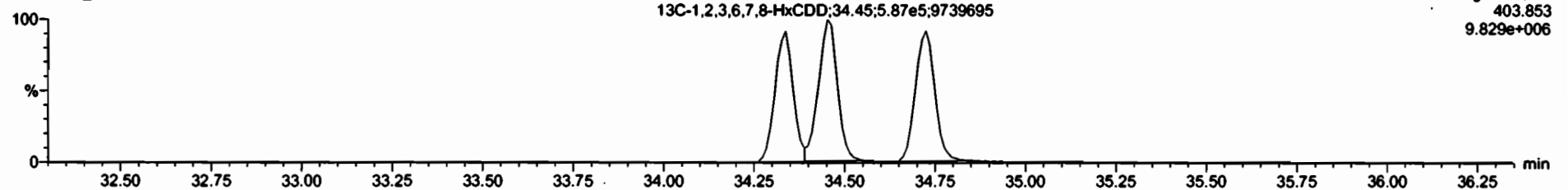


13C-1,2,3,4,7,8-HxCDD

201217R4_2



201217R4_2



Dataset: Untitled

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Printed: Friday, December 18, 2020 7:12:10 AM Pacific Standard Time

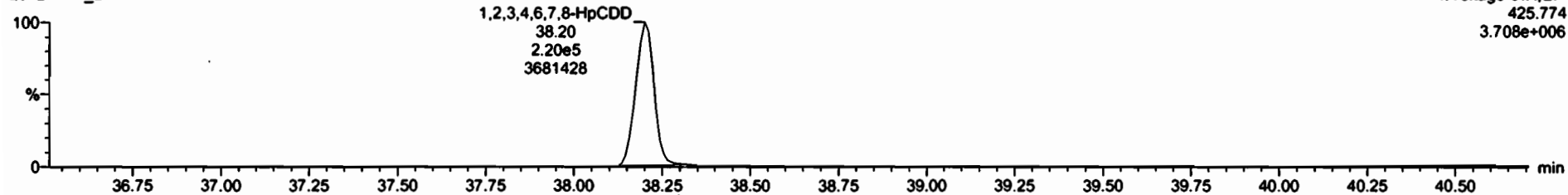
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1,2,3,4,6,7,8-HpCDD

201217R4_2



201217R4_2

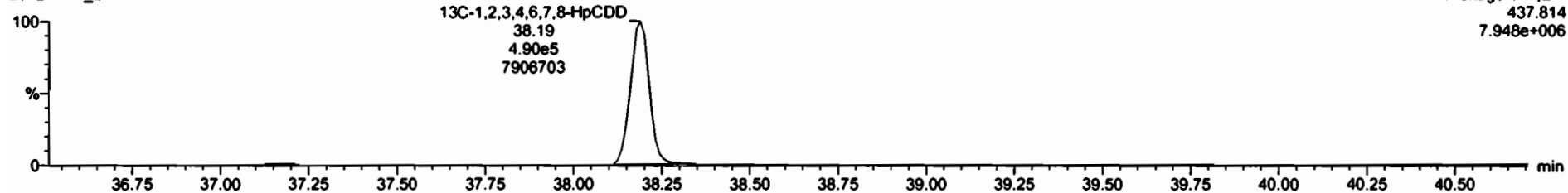


13C-1,2,3,4,6,7,8-HpCDD

201217R4_2



201217R4_2



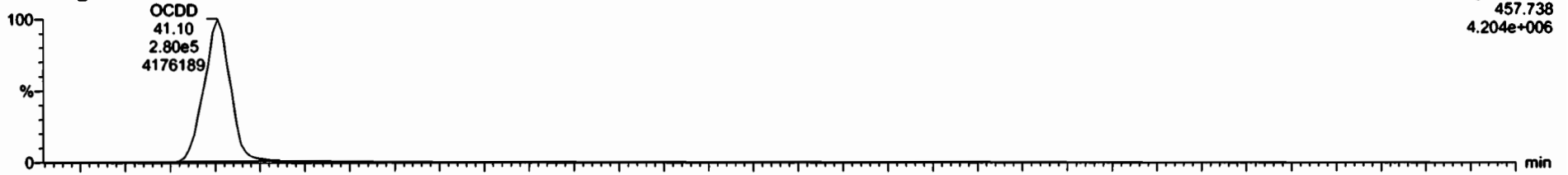
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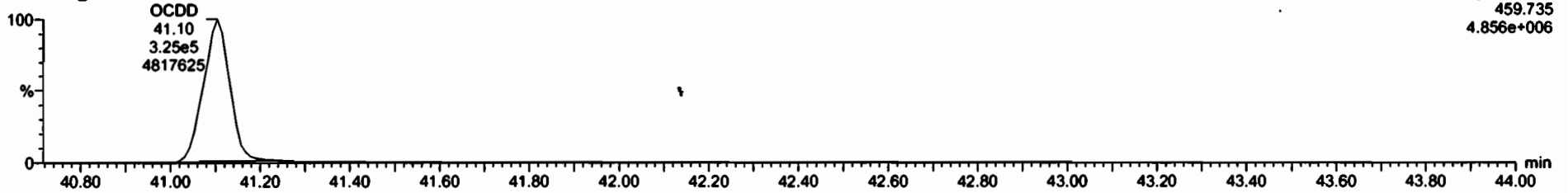
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OCDD

201217R4_2



201217R4_2

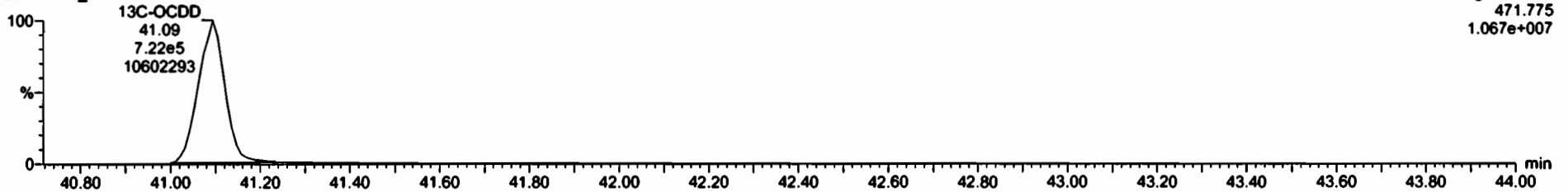


13C-OCDD

201217R4_2



201217R4_2



Dataset: Untitled

Last Altered: Friday, December 18, 2020 7:11:37 AM Pacific Standard Time
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Name: 201217R4_2, Date: 17-Dec-2020, Time: 15:13:49, ID: B0L0082-BS1 OPR 10, Description: OPR

2,3,7,8-TCDF

201217R4_2

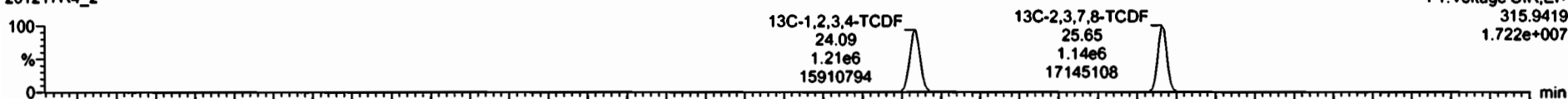


201217R4_2

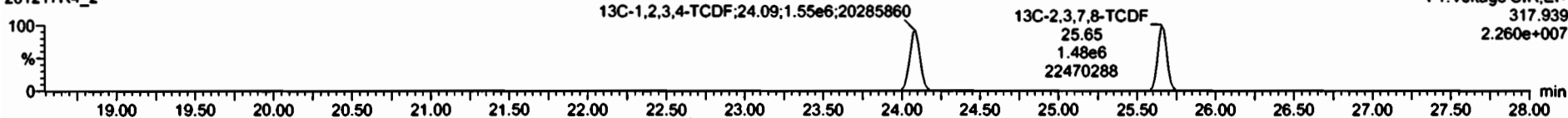


13C-2,3,7,8-TCDF

201217R4_2

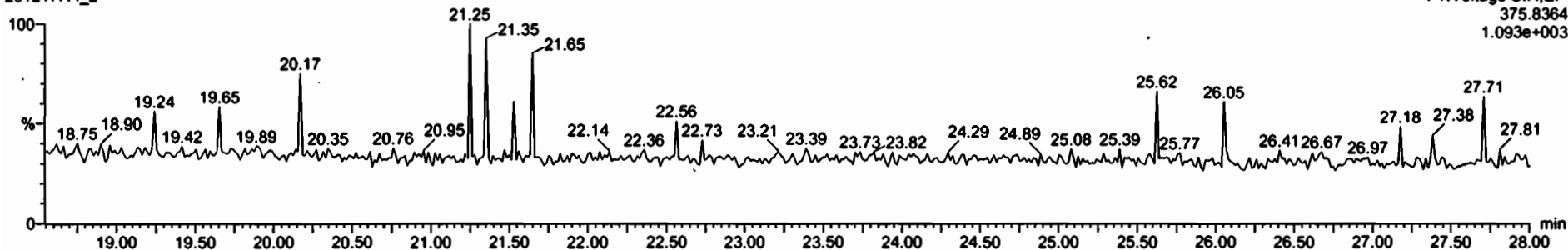


201217R4_2



DPE1

201217R4_2



Dataset: Untitled

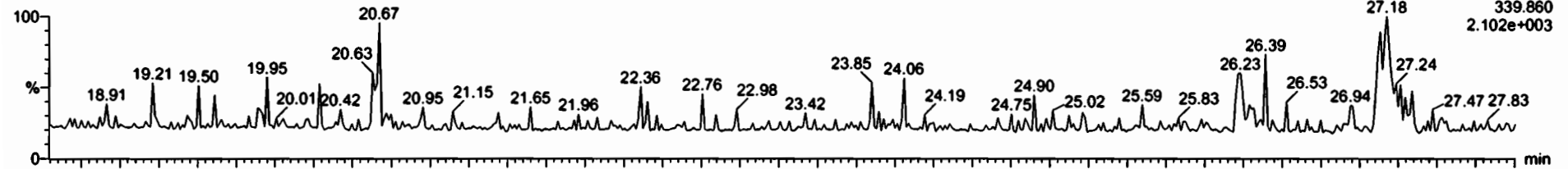
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Printed: Friday, December 18, 2020 7:12:10 AM Pacific Standard Time

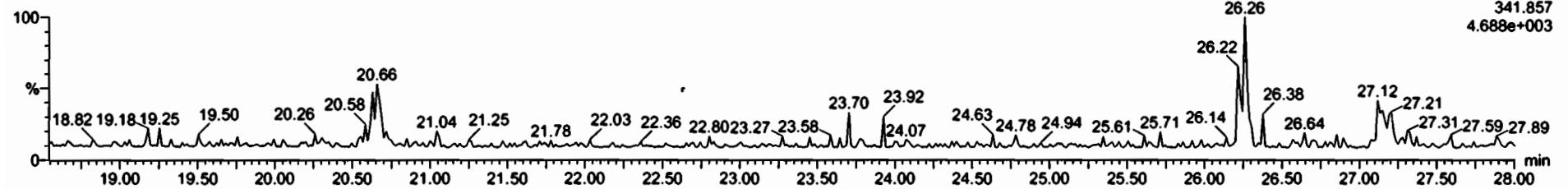
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1st Func. Penta-Furans

201217R4_2

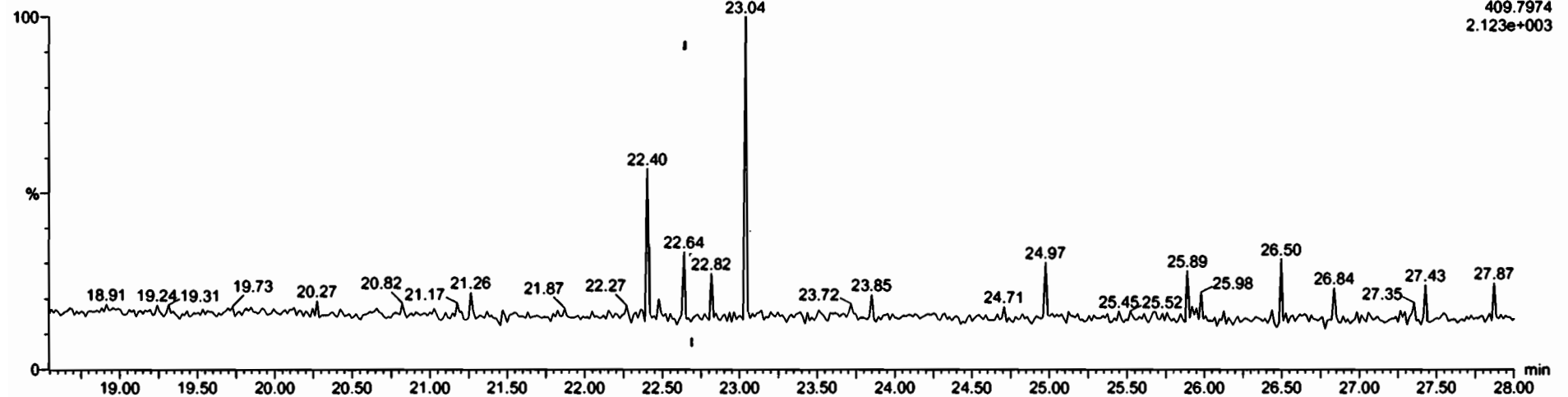


201217R4_2



DPE6

201217R4_2



Dataset: Untitled

Last Altered: Friday, December 18, 2020 7:11:37 AM Pacific Standard Time
Printed: Friday, December 18, 2020 7:12:10 AM Pacific Standard Time

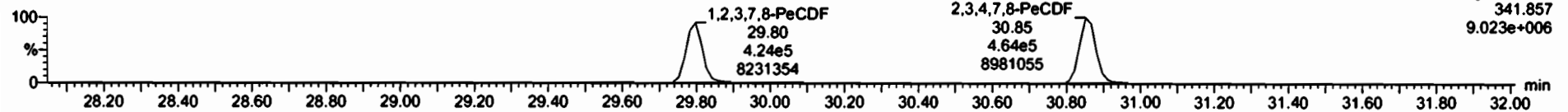
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1,2,3,7,8-PeCDF

201217R4_2



201217R4_2

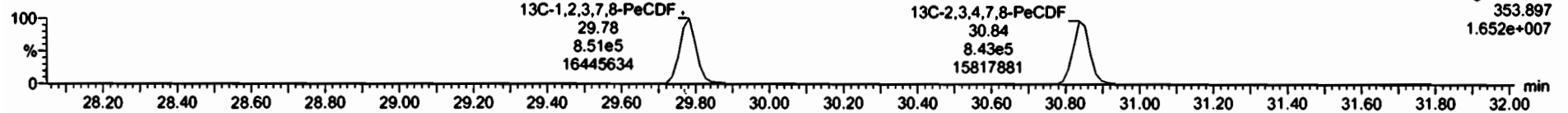


13C-1,2,3,7,8-PeCDF

201217R4_2

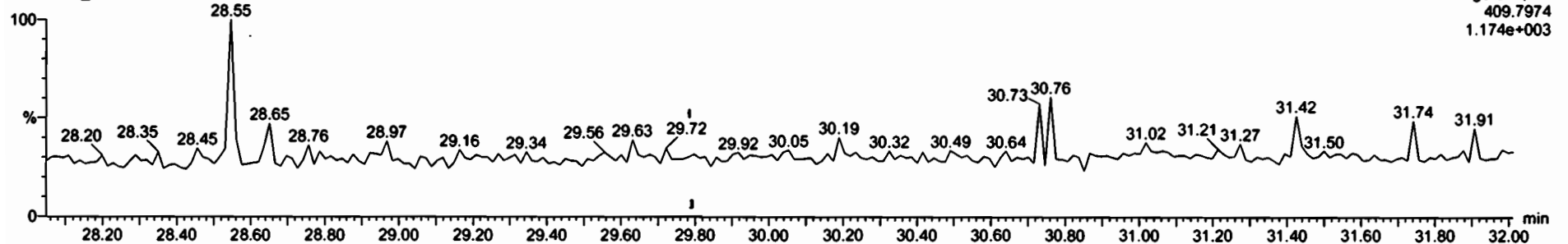


201217R4_2



DPE2

201217R4_2



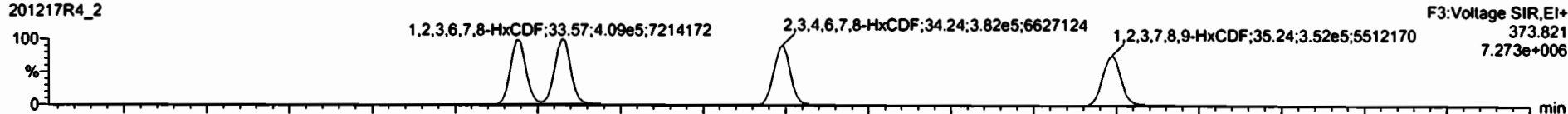
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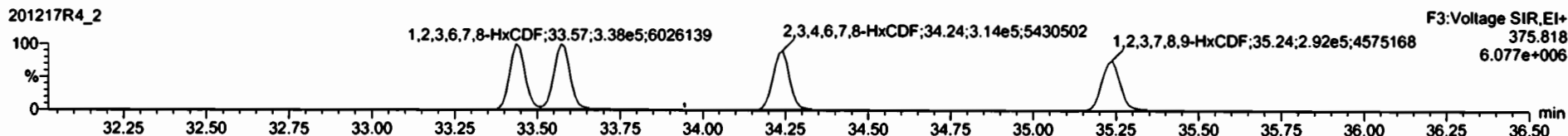
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1,2,3,4,7,8-HxCDF

201217R4_2

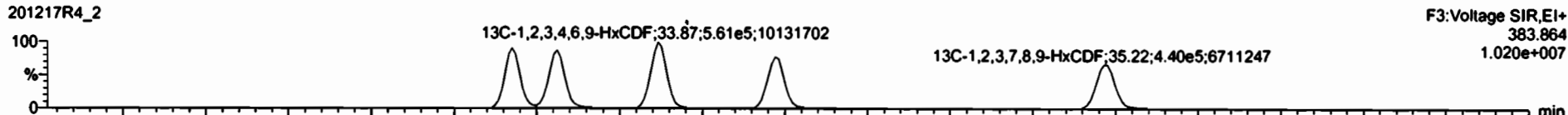


201217R4_2

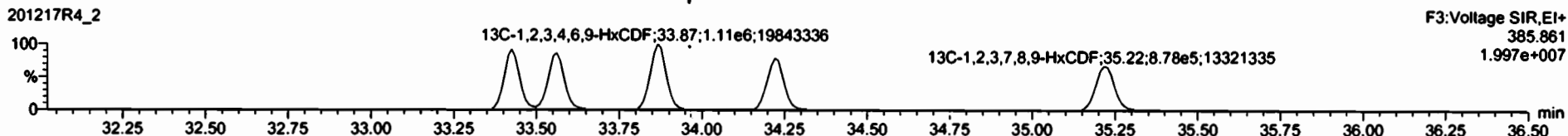


13C-1,2,3,4,7,8-HxCDF

201217R4_2

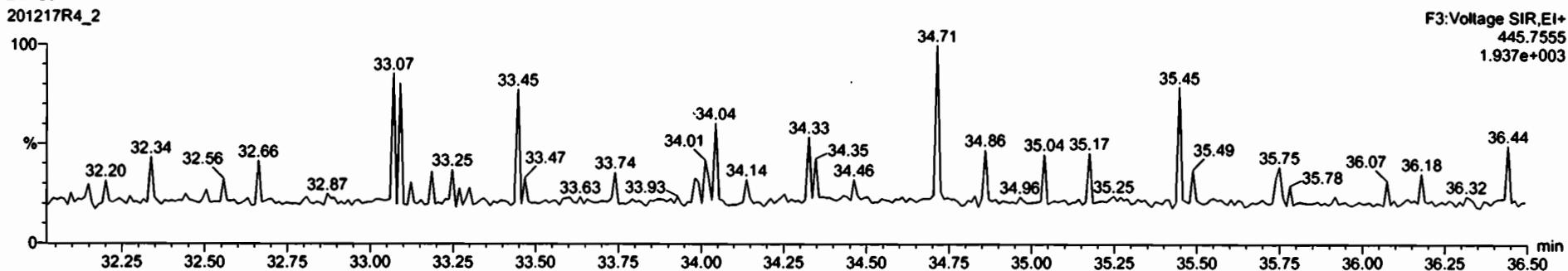


201217R4_2



DPE3

201217R4_2



Dataset: Untitled

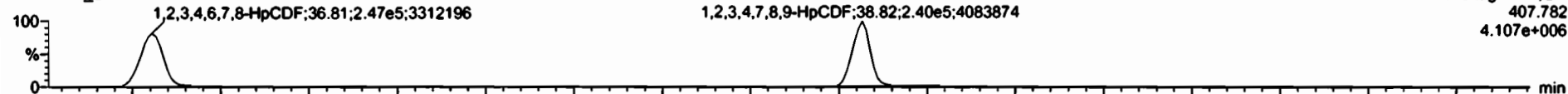
Last Altered: Friday, December 18, 2020 7:11:37 AM Pacific Standard Time

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Name: 201217R4_2, Date: 17-Dec-2020, Time: 15:13:49, ID: B0L0082-BS1 OPR 10, Description: OPR

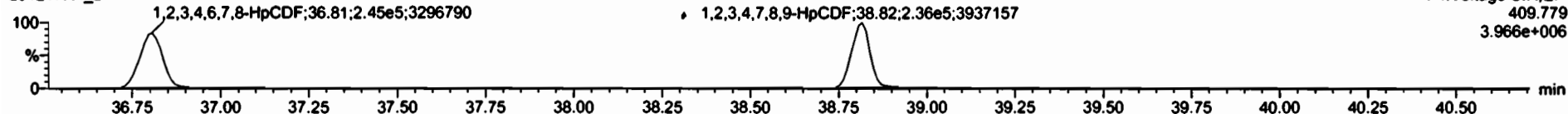
1,2,3,4,6,7,8-HpCDF

201217R4_2



F4:Voltage SIR,EI+
407.782
4.107e+006

201217R4_2



F4:Voltage SIR,EI+
409.779
3.966e+006

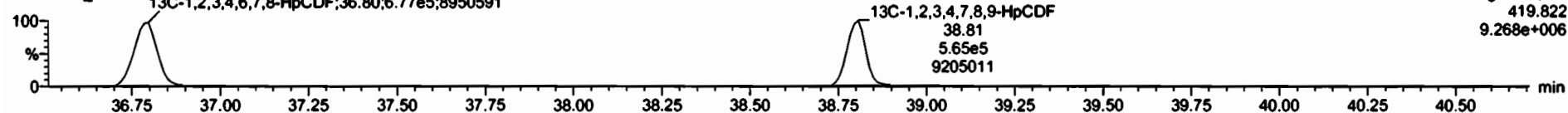
13C-1,2,3,4,6,7,8-HpCDF

201217R4_2



F4:Voltage SIR,EI+
417.825
4.134e+006

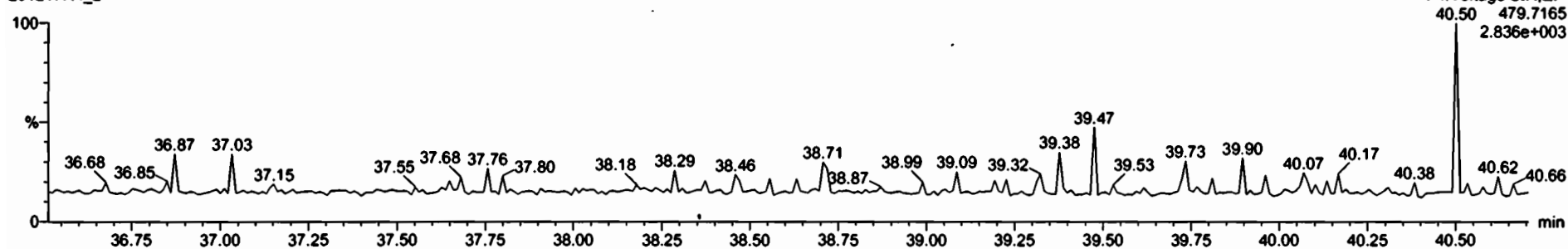
201217R4_2



F4:Voltage SIR,EI+
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9.268e+006

DPE4

201217R4_2

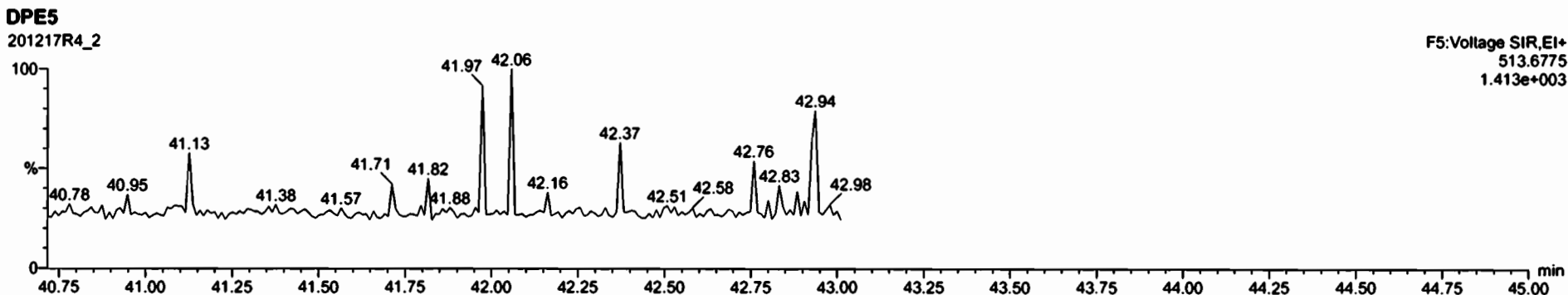
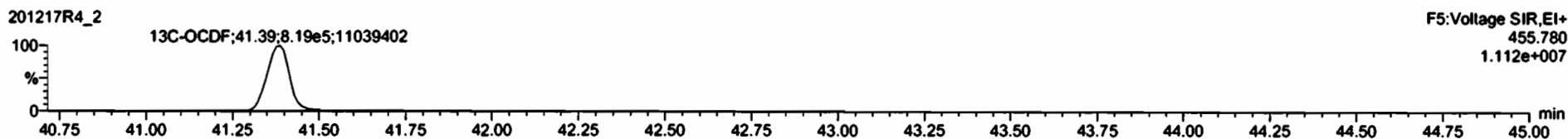
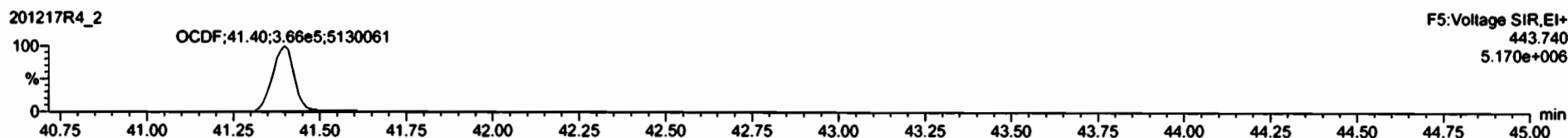


F4:Voltage SIR,EI+
40.50 479.7165
2.836e+003

Dataset: Untitled

Last Altered: Friday, December 18, 2020 7:11:37 AM Pacific Standard Time
Printed: Friday, December 18, 2020 7:12:10 AM Pacific Standard Time

Name: 201217R4_2, Date: 17-Dec-2020, Time: 15:13:49, ID: B0L0082-BS1 OPR 10, Description: OPR



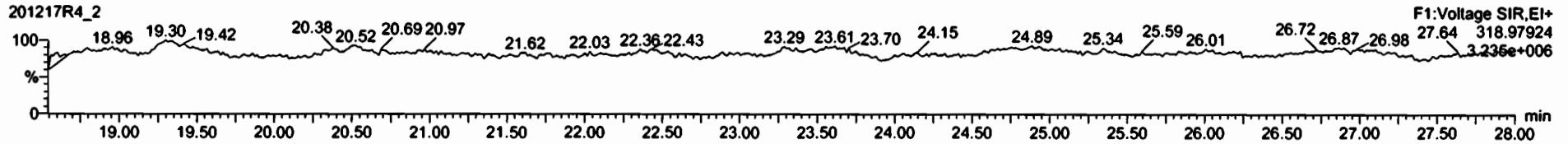
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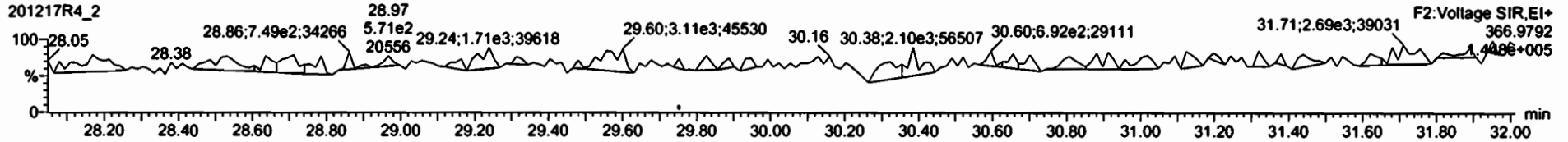
Printed: Friday, December 18, 2020 7:12:10 AM Pacific Standard Time

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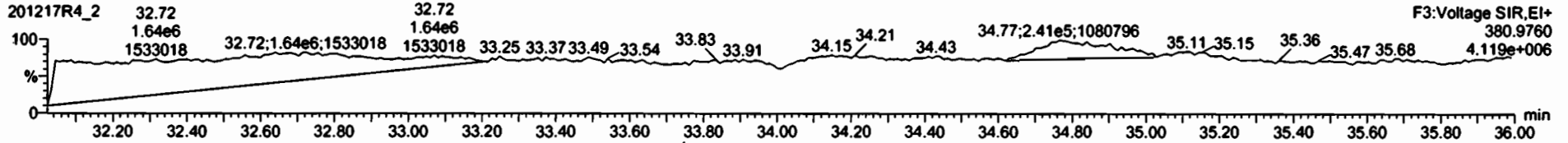
PFK1



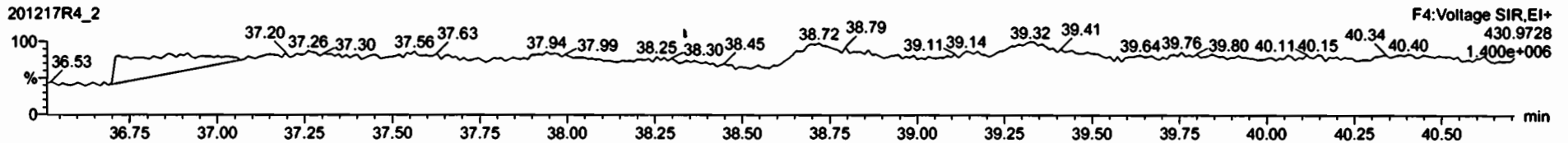
PFK2



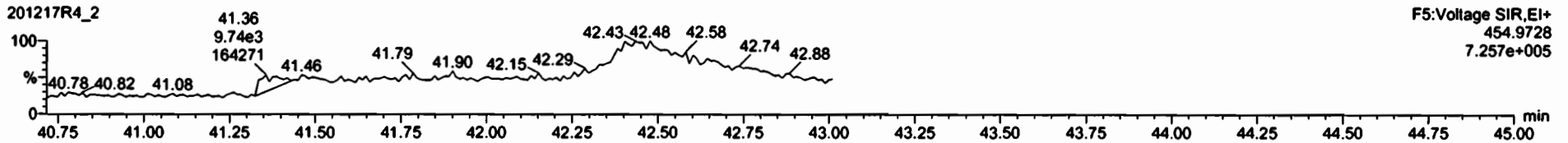
PFK3



PFK4



PFK5



Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201218R1\201218R1_13.qld

Last Altered: Tuesday, December 22, 2020 2:30:38 PM Pacific Standard Time

Printed: Tuesday, December 22, 2020 2:31:13 PM Pacific Standard Time

GRB 12/22/2020

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

MW 12/22/2020

Name: 201218R1_13, Date: 18-Dec-2020, Time: 19:13:47, ID: 2002532-01 USMPDI-001SC-A-01-02-201111 15.78, Description: USMPDI-001SC-A-01-02-201111

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.980	10.157	26.351		1.001				0.0126	
2	2 1,2,3,7,8-PeCDD			NO	0.932	10.157	31.049		1.001				0.0293	
3	3 1,2,3,4,7,8-HxCDD			NO	1.02	10.157	34.347		1.001				0.0266	
4	4 1,2,3,6,7,8-HxCDD			NO	0.902	10.157	34.462		1.001				0.0285	
5	5 1,2,3,7,8,9-HxCDD	2.74e2	1.21	NO	0.954	10.157	34.724	34.72	1.000	1.000	0.044187		0.0277	0.0442
6	6 1,2,3,4,6,7,8-HpCDD	1.82e3	1.09	NO	0.918	10.157	38.200	38.20	1.000	1.000	0.38665		0.0346	0.387
7	7 OCDD	9.34e3	0.84	NO	0.866	10.157	41.113	41.12	1.000	1.000	3.0303		0.103	3.03
8	8 2,3,7,8-TCDF			NO	0.848	10.157	25.628		1.000				0.0164	
9	9 1,2,3,7,8-PeCDF			NO	0.960	10.157	29.754		1.000				0.0171	
10	10 2,3,4,7,8-PeCDF			NO	1.07	10.157	30.844		1.001				0.0141	
11	11 1,2,3,4,7,8-HxCDF			NO	0.986	10.157	33.426		1.000				0.0126	
12	12 1,2,3,6,7,8-HxCDF			NO	1.04	10.157	33.571		1.001				0.0125	
13	13 2,3,4,6,7,8-HxCDF			NO	1.02	10.157	34.232		1.001				0.0137	
14	14 1,2,3,7,8,9-HxCDF	1.59e2	1.35	NO	0.991	10.157	35.217	35.22	1.000	1.000	0.026323		0.0105	0.0263
15	15 1,2,3,4,6,7,8-HpCDF	1.85e2	1.05	NO	1.05	10.157	36.792	36.80	1.000	1.001	0.038942		0.00699	0.0389
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.18	10.157	38.817		1.000				0.0112	
17	17 OCDF			NO	0.896	10.157	41.406		1.000				0.0388	
18	18 13C-2,3,7,8-TCDD	1.97e6	0.77	NO	1.06	10.157	26.307	26.32	1.030	1.031	192.70	97.9	0.0485	
19	19 13C-1,2,3,7,8-PeCDD	1.62e6	0.62	NO	0.785	10.157	31.139	31.02	1.219	1.215	213.78	109	0.105	
20	20 13C-1,2,3,4,7,8-HxCDD	1.19e6	1.27	NO	0.621	10.157	34.315	34.33	1.014	1.014	231.44	118	0.265	
21	21 13C-1,2,3,6,7,8-HxCDD	1.33e6	1.25	NO	0.734	10.157	34.437	34.44	1.017	1.017	217.70	111	0.224	
22	22 13C-1,2,3,7,8,9-HxCDD	1.28e6	1.25	NO	0.723	10.157	34.722	34.71	1.026	1.025	212.85	108	0.227	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.01e6	1.05	NO	0.568	10.157	38.219	38.19	1.129	1.128	214.34	109	0.521	
24	24 13C-OCDD	1.40e6	0.92	NO	0.496	10.157	41.154	41.10	1.216	1.214	340.02	86.3	0.349	
25	25 13C-2,3,7,8-TCDF	2.48e6	0.77	NO	0.919	10.157	25.608	25.63	1.003	1.003	198.60	101	0.0682	
26	26 13C-1,2,3,7,8-PeCDF	2.11e6	1.58	NO	0.715	10.157	29.852	29.75	1.169	1.165	216.84	110	0.311	
27	27 13C-2,3,4,7,8-PeCDF	2.12e6	1.57	NO	0.689	10.157	30.937	30.82	1.212	1.207	226.11	115	0.323	
28	28 13C-1,2,3,4,7,8-HxCDF	1.36e6	0.50	NO	0.873	10.157	33.422	33.42	0.987	0.987	187.73	95.3	0.253	
29	29 13C-1,2,3,6,7,8-HxCDF	1.34e6	0.51	NO	0.933	10.157	33.550	33.55	0.991	0.991	172.60	87.7	0.237	
30	30 13C-2,3,4,6,7,8-HxCDF	1.29e6	0.51	NO	0.843	10.157	34.217	34.21	1.011	1.011	184.42	93.7	0.262	
31	31 13C-1,2,3,7,8,9-HxCDF	1.20e6	0.50	NO	0.780	10.157	35.216	35.21	1.040	1.040	185.36	94.1	0.283	

Dataset: U:\VG12.PRO\Results\201218R1\201218R1_13.qld

Last Altered: Tuesday, December 22, 2020 2:30:38 PM Pacific Standard Time
Printed: Tuesday, December 22, 2020 2:31:13 PM Pacific Standard Time

Name: 201218R1_13, Date: 18-Dec-2020, Time: 19:13:47, ID: 2002532-01 USMPDI-001SC-A-01-02-201111 15.78, Description: USMPDI-001SC-A-01-02-201111

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	8.92e5	0.43	NO	0.726	10.157	36.790	36.77	1.087	1.086	147.68	75.0	0.353	
33	33 13C-1,2,3,4,7,8,9-HpCDF	7.55e5	0.43	NO	0.491	10.157	38.798	38.81	1.146	1.146	184.88	93.9	0.523	
34	34 13C-OCDF	1.37e6	0.86	NO	0.565	10.157	41.371	41.40	1.222	1.223	292.03	74.2	0.347	
35	35 37Cl-2,3,7,8-TCDD	8.89e5			1.22	10.157	26.302	26.33	1.030	1.031	75.546	95.9	0.0157	
36	36 13C-1,2,3,4-TCDD	1.90e6	0.78	NO	1.00	10.157	25.640	25.54	1.000	1.000	196.91	100	0.0512	
37	37 13C-1,2,3,4-TCDF	2.68e6	0.78	NO	1.00	10.157	24.130	24.04	1.000	1.000	196.91	100	0.0627	
38	38 13C-1,2,3,4,6,9-HxCDF	1.64e6	0.50	NO	1.00	10.157	33.920	33.85	1.000	1.000	196.91	100	0.221	
39	39 Total Tetra-Dioxins				0.980	10.157	24.620		0.000		0.26820		0.0126	0.268
40	40 Total Penta-Dioxins				0.932	10.157	29.960		0.000		0.17657		0.0293	0.254
41	41 Total Hexa-Dioxins				0.902	10.157	33.635		0.000		0.44241		0.0292	0.630
42	42 Total Hepta-Dioxins				0.918	10.157	37.640		0.000		0.97557		0.0346	0.976
43	43 Total Tetra-Furans				0.848	10.157	23.610		0.000		0.15063		0.0164	0.151
44	44 1st Func. Penta-Furans				0.960	10.157	26.930		0.000		0.015054		0.00345	0.0151
45	45 Total Penta-Furans				0.960	10.157	29.275		0.000				0.00799	
46	46 Total Hexa-Furans				1.02	10.157	33.555		0.000		0.026323		0.00858	0.0455
47	47 Total Hepta-Furans				1.05	10.157	37.835		0.000		0.038942		0.00670	0.0389

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201218R1\201218R1_13.qld

Last Altered: Tuesday, December 22, 2020 2:30:38 PM Pacific Standard Time

Printed: Tuesday, December 22, 2020 2:31:13 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\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201218R1_13, Date: 18-Dec-2020, Time: 19:13:47, ID: 2002532-01 USMPDI-001SC-A-01-02-201111 15.78, Description: USMPDI-001SC-A-01-02-201111

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.51	1.907e3	4.043e3	1.707e2	2.280e2	0.75	NO	3.987e2	0.040701	0.040701	0.0126
2	Total Tetra-Dioxins	22.87	2.255e3	3.114e3	2.181e2	2.481e2	0.88	NO	4.662e2	0.047596	0.047596	0.0126
3	Total Tetra-Dioxins	23.41	2.022e3	2.978e3	1.626e2	2.067e2	0.79	NO	3.693e2	0.037696	0.037696	0.0126
4	Total Tetra-Dioxins	24.24	9.207e3	1.128e4	5.924e2	8.006e2	0.74	NO	1.393e3	0.14221	0.14221	0.0126

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	2.728e3	3.065e3	1.324e2	2.146e2	0.62	NO	3.469e2	0.045183	0.045183	0.0293
2	Total Penta-Dioxins	29.25	6.002e3	7.376e3	2.247e2	3.658e2	0.61	NO	5.905e2	0.076903	0.076903	0.0293
3	Total Penta-Dioxins	29.54	5.961e3	2.213e4	2.298e2	1.159e3	0.20	YES	0.000e0	0.00000	0.077439	0.0293
4	Total Penta-Dioxins	30.25	2.400e3	3.347e3	1.616e2	2.567e2	0.63	NO	4.184e2	0.054483	0.054483	0.0293

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	2.400e4	2.250e4	1.156e3	9.864e2	1.17	NO	2.142e3	0.36893	0.36893	0.0292
2	Total Hexa-Dioxins	33.28	1.946e3	1.597e3	9.684e1	7.321e1	1.32	NO	1.701e2	0.029290	0.029290	0.0292
3	Total Hexa-Dioxins	33.55	1.046e4	6.485e3	7.132e2	4.850e2	1.47	YES	0.000e0	0.00000	0.18714	0.0292
4	1,2,3,7,8,9-HxCDD	34.72	3.280e3	3.003e3	1.500e2	1.237e2	1.21	NO	2.737e2	0.044187	0.044187	0.0277

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.17	2.269e4	2.180e4	1.396e3	1.380e3	1.01	NO	2.777e3	0.58892	0.58892	0.0346
2	1,2,3,4,6,7,8-HpCDD	38.20	1.623e4	1.743e4	9.511e2	8.721e2	1.09	NO	1.823e3	0.38665	0.38665	0.0346

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201218R1\201218R1_13.qld

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Printed: Tuesday, December 22, 2020 2:31:13 PM Pacific Standard Time

Name: 201218R1_13, Date: 18-Dec-2020, Time: 19:13:47, ID: 2002532-01 USMPDI-001SC-A-01-02-201111 15.78, Description: USMPDI-001SC-A-01-02-201111

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.21	1.407e3	1.944e3	1.018e2	1.501e2	0.68	NO	2.519e2	0.023582	0.023582	0.0164
2	Total Tetra-Furans	21.62	8.567e3	9.583e3	5.567e2	8.003e2	0.70	NO	1.357e3	0.12705	0.12705	0.0164

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	27.13	1.171e3	7.790e2	8.848e1	6.643e1	1.33	NO	1.549e2	0.015054	0.015054	0.00345

Penta-Furans

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

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,7,8,9-HxCDF	35.22	2.979e3	2.634e3	9.137e1	6.779e1	1.35	NO	1.592e2	0.026323	0.026323	0.0105
2	Total Hexa-Furans	35.24	2.547e3	2.356e3	7.135e1	7.486e1	0.95	YES	0.000e0	0.00000	0.019154	0.00858

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	2.361e3	1.242e3	9.488e1	9.013e1	1.05	NO	1.850e2	0.038942	0.038942	0.00699

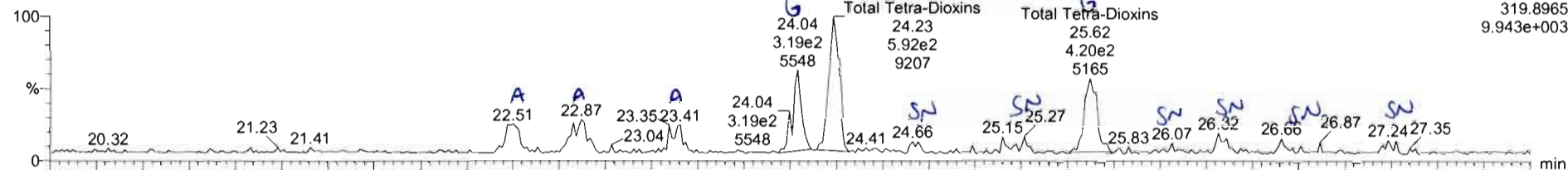
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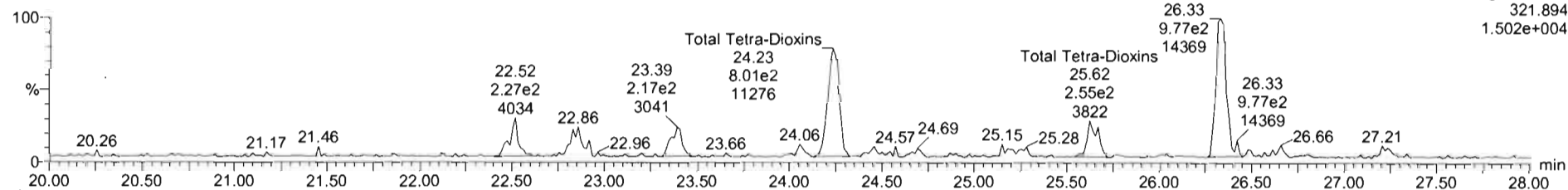
2,3,7,8-TCDD

201218R1_13



F1: Voltage SIR, EI+
319.8965
9.943e+003

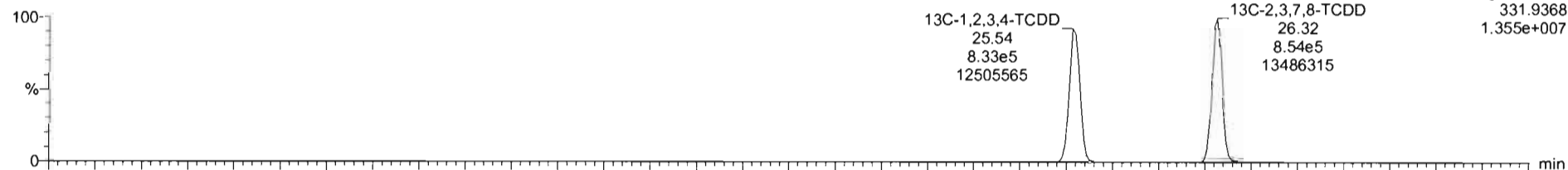
201218R1_13



F1: Voltage SIR, EI+
321.894
1.502e+004

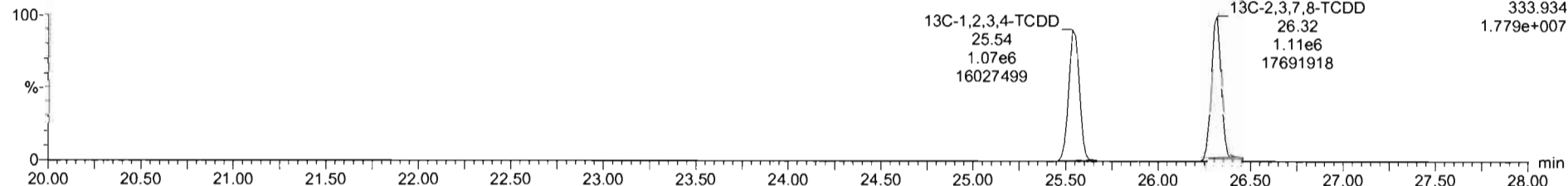
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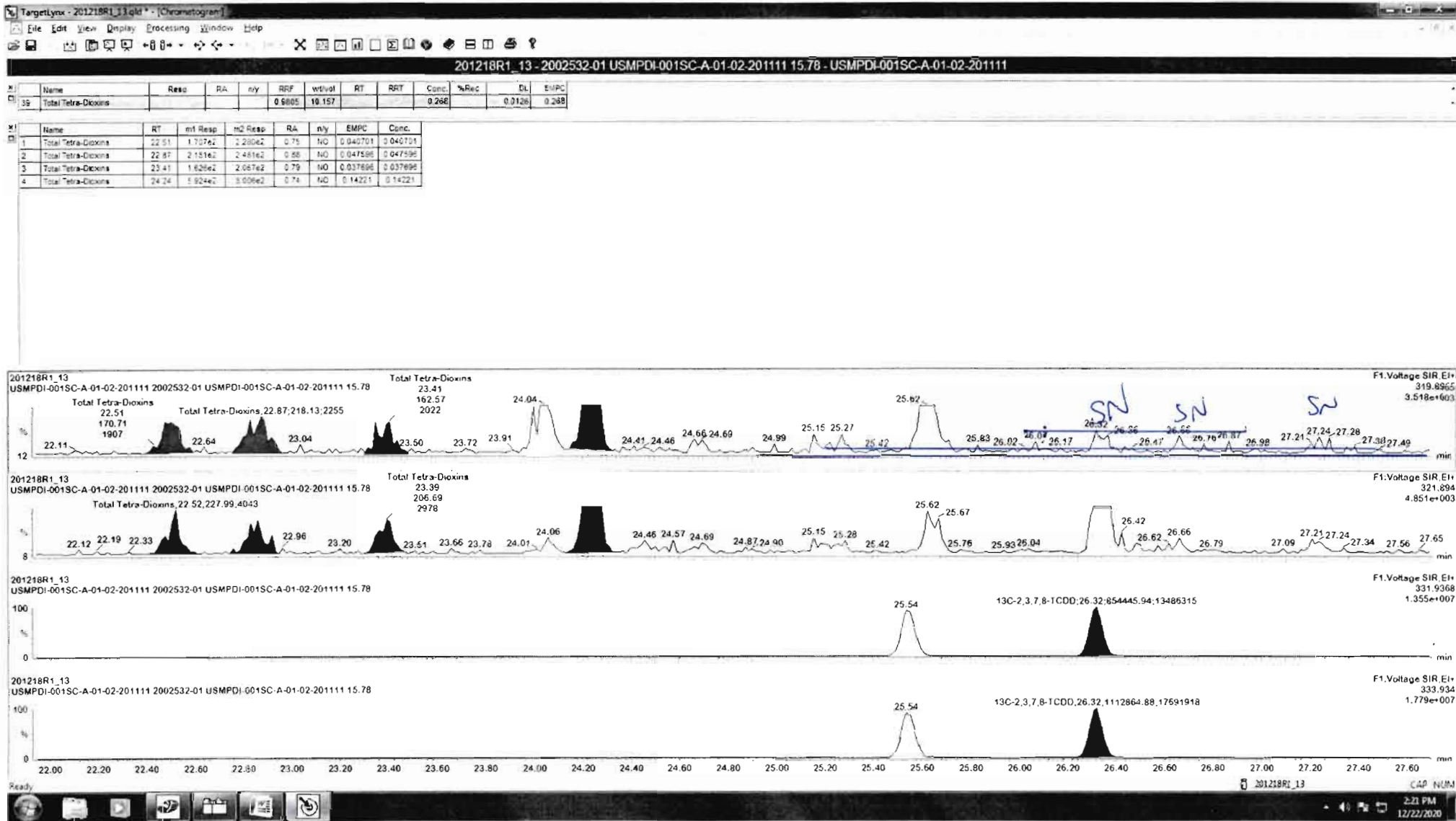


F1: Voltage SIR, EI+
331.9368
1.355e+007

201218R1_13



F1: Voltage SIR, EI+
333.934
1.779e+007



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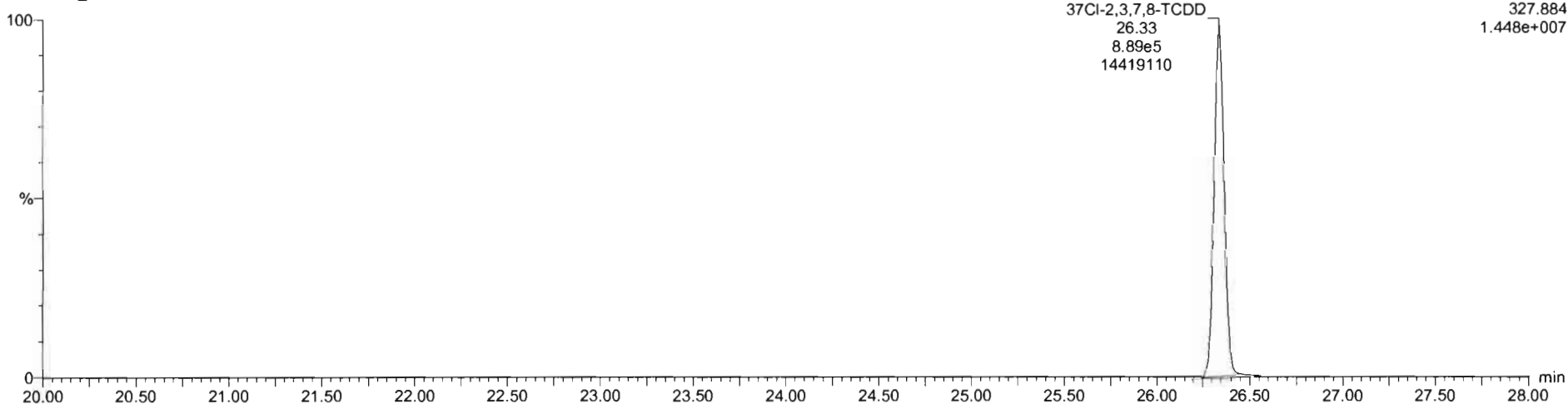
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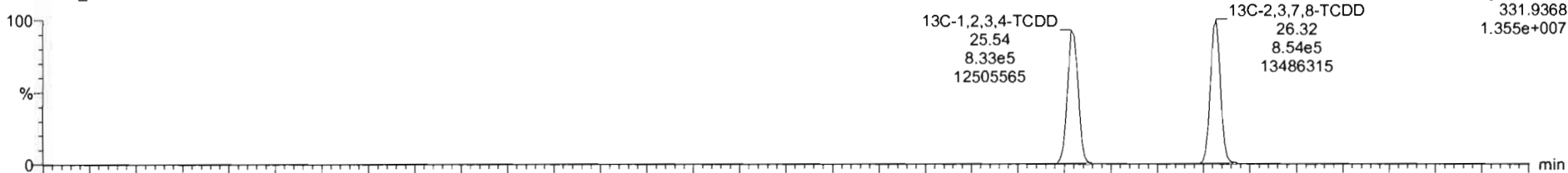
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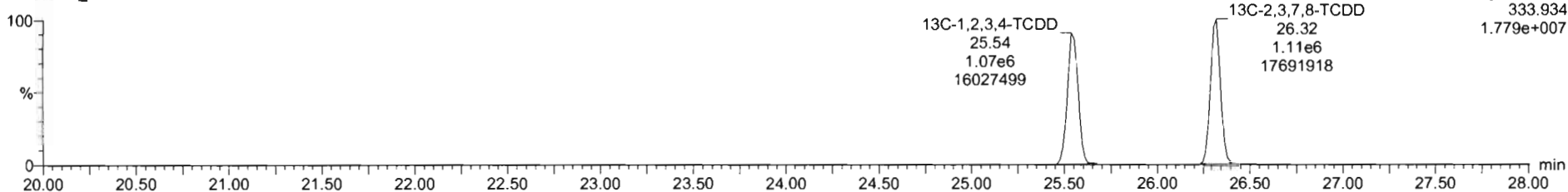


13C-1,2,3,4-TCDD

201218R1_13



201218R1_13



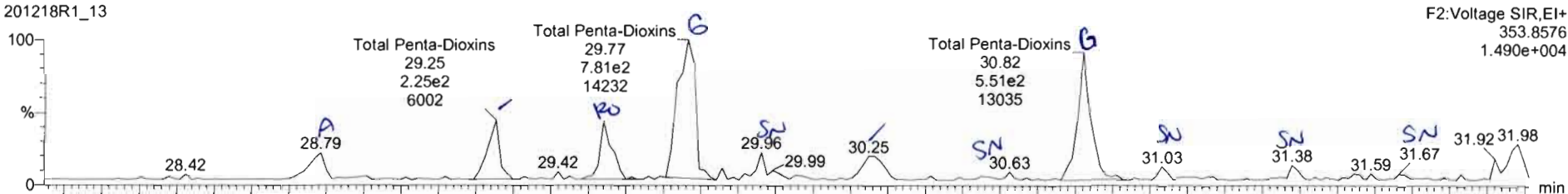
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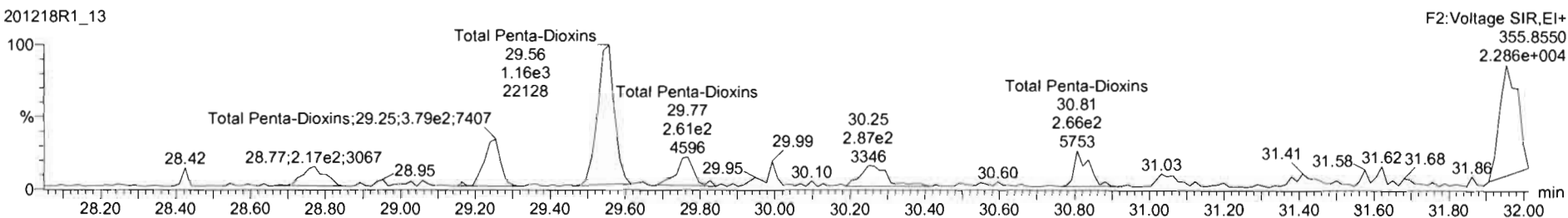
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1,2,3,7,8-PeCDD

201218R1_13

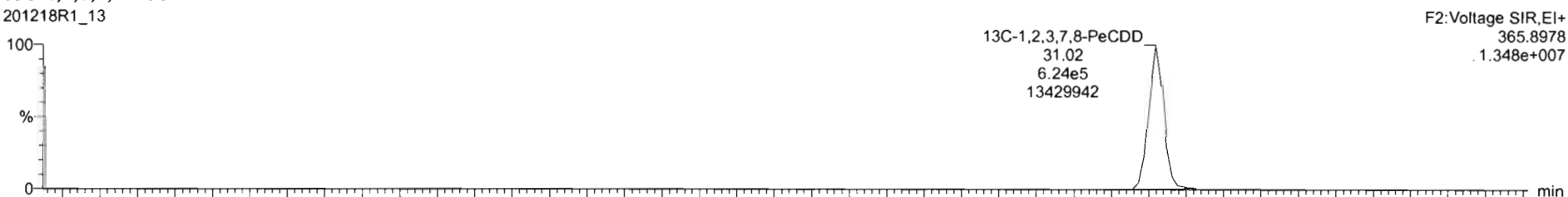


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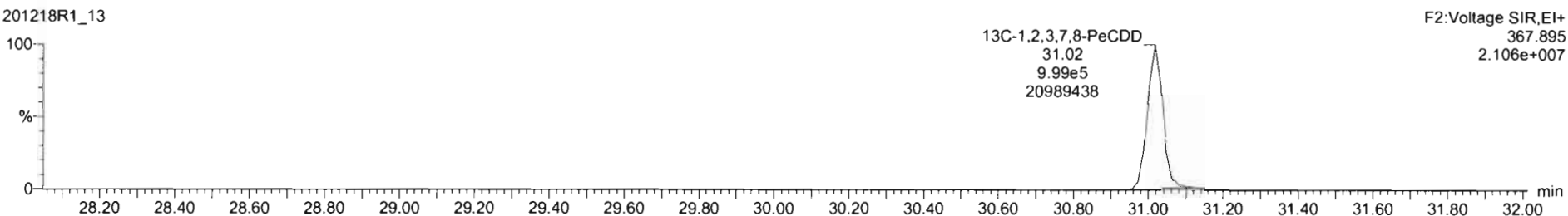


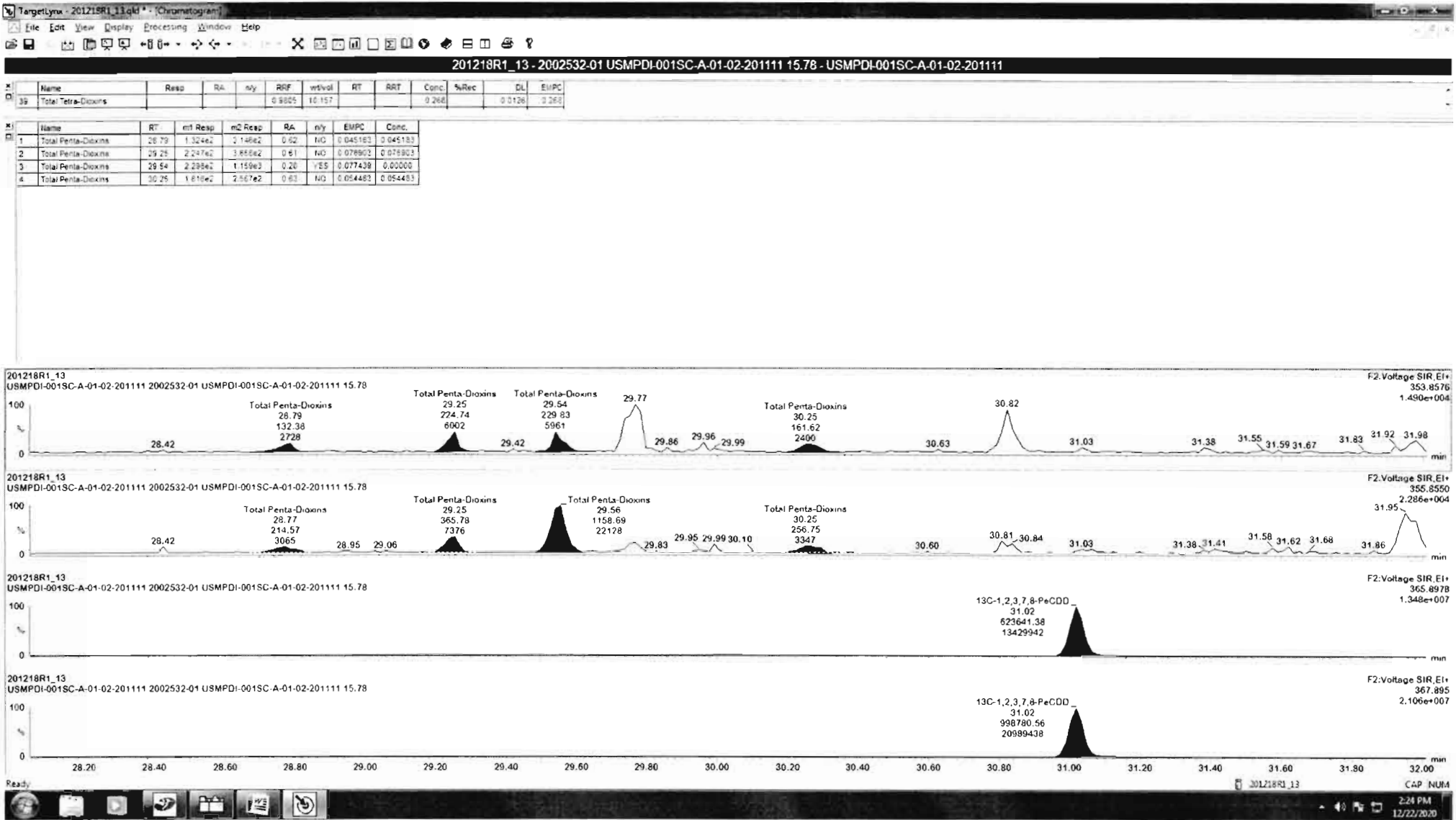
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201218R1_13



201218R1_13





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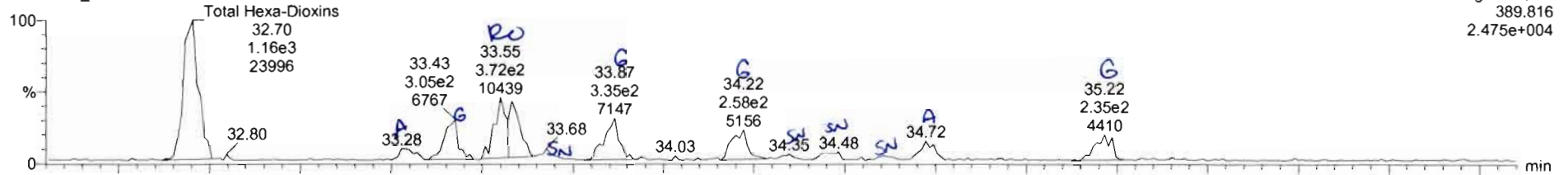
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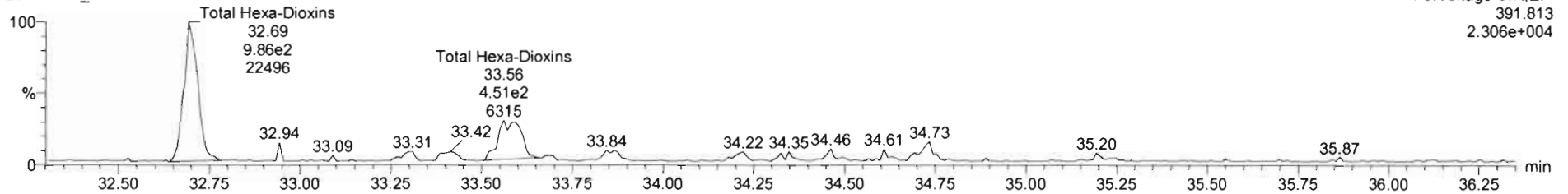
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1,2,3,4,7,8-HxCDD

201218R1_13

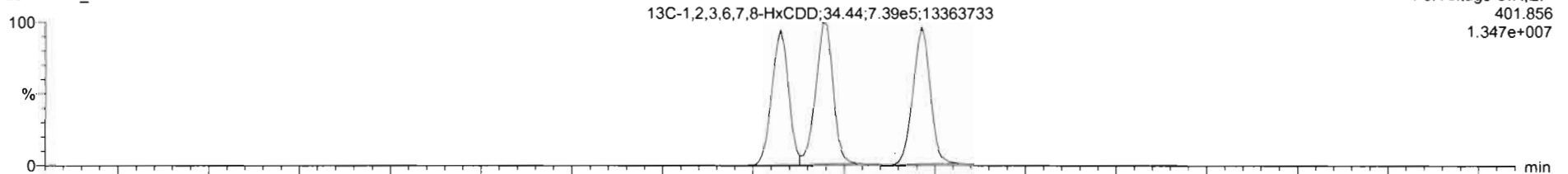


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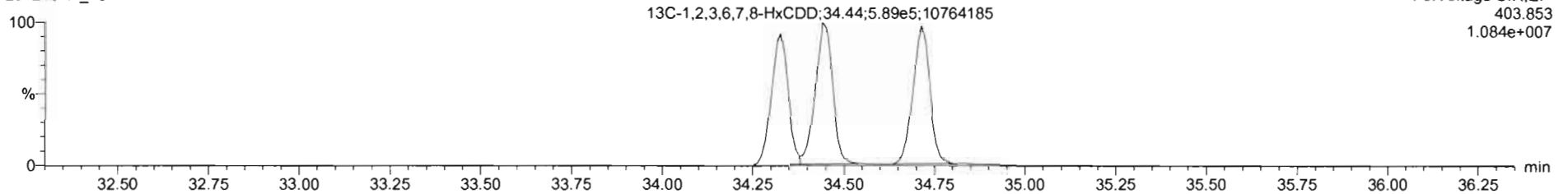


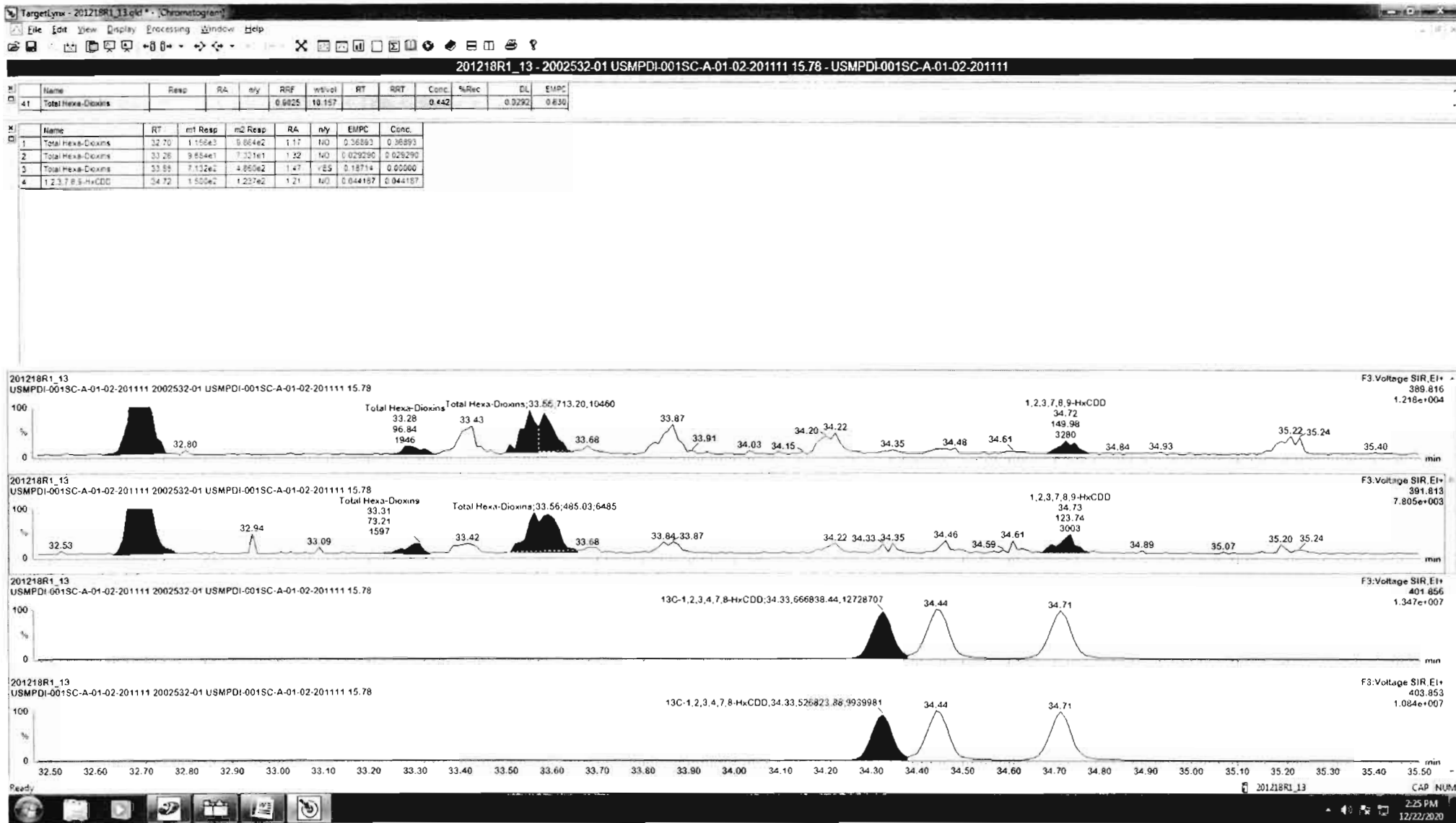
13C-1,2,3,4,7,8-HxCDD

201218R1_13



201218R1_13





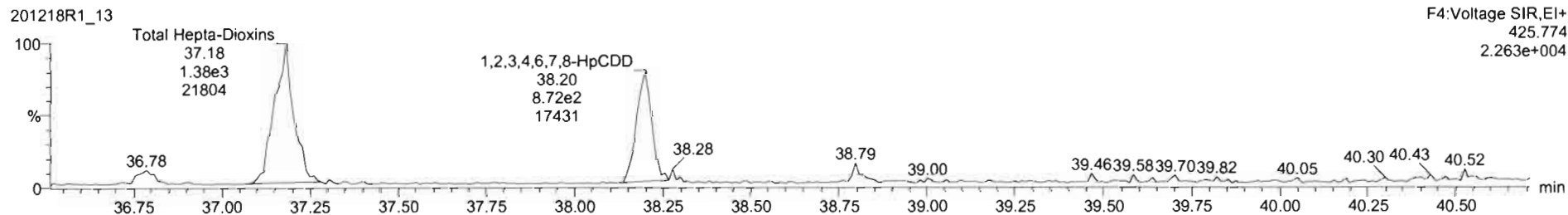
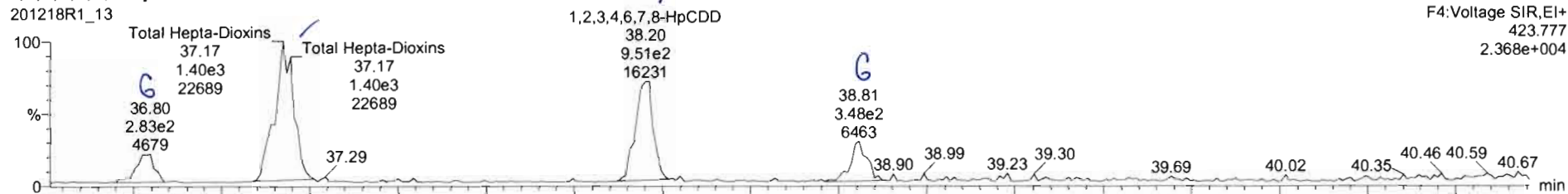
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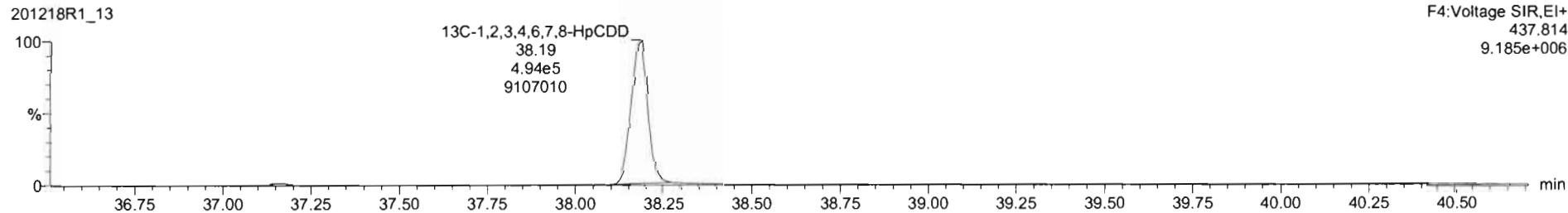
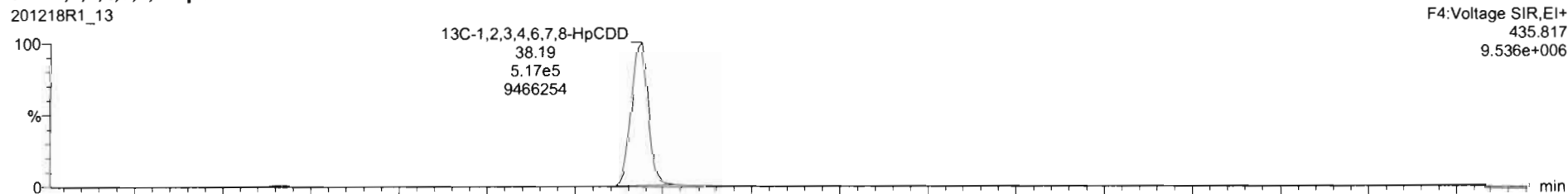
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1,2,3,4,6,7,8-HpCDD



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



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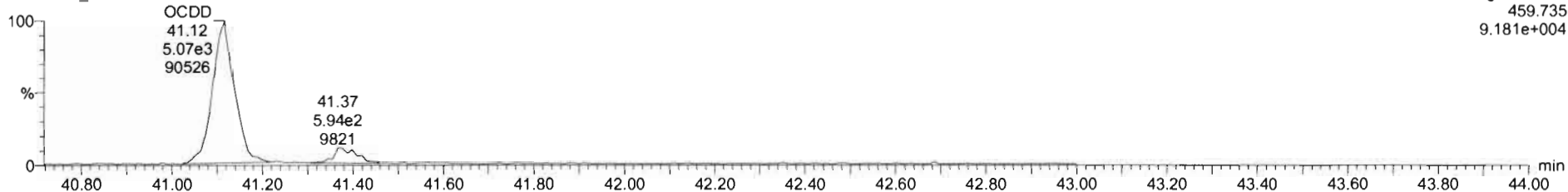
OCDD

201218R1_13



F5:Voltage SIR,EI+
457.738
6.855e+004

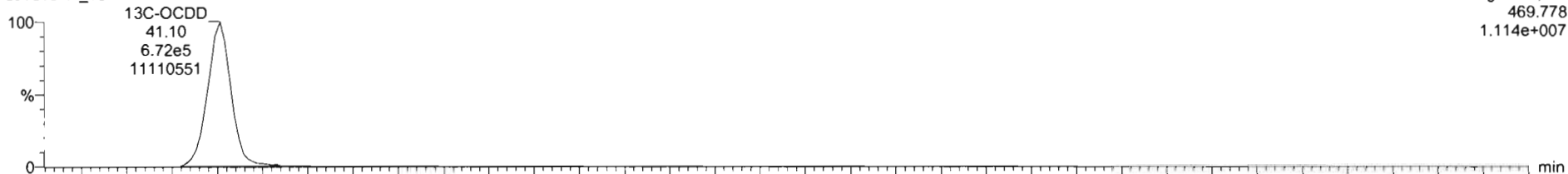
201218R1_13



F5:Voltage SIR,EI+
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9.181e+004

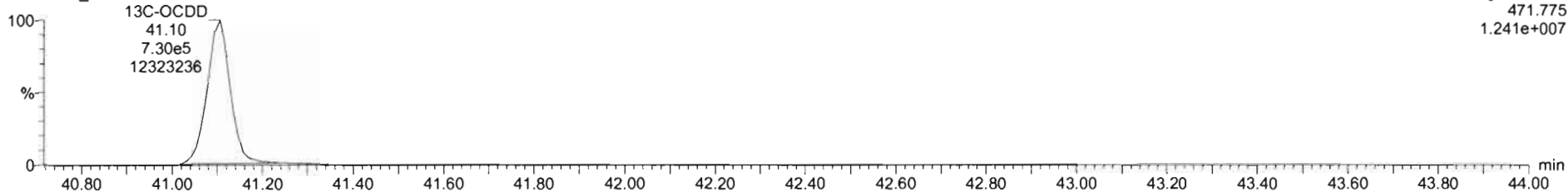
13C-OCDD

201218R1_13



F5:Voltage SIR,EI+
469.778
1.114e+007

201218R1_13



F5:Voltage SIR,EI+
471.775
1.241e+007

Dataset: Untitled

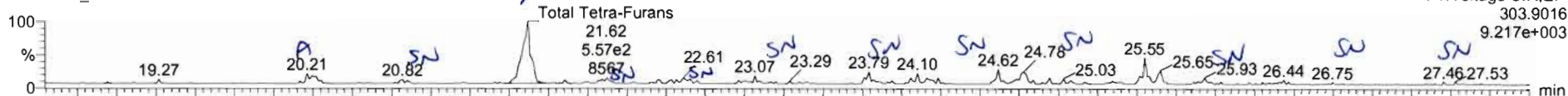
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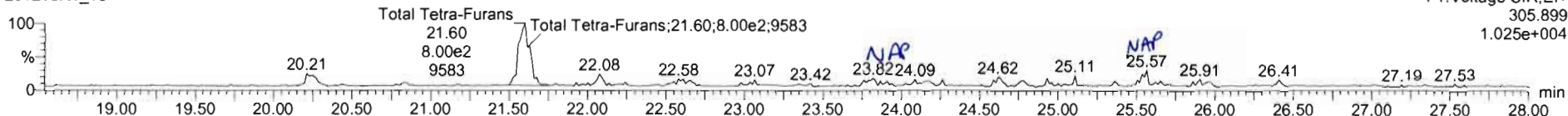
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2,3,7,8-TCDF

201218R1_13

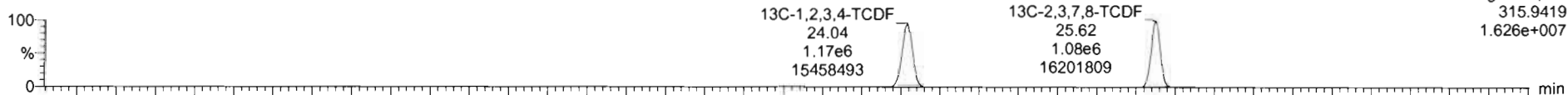


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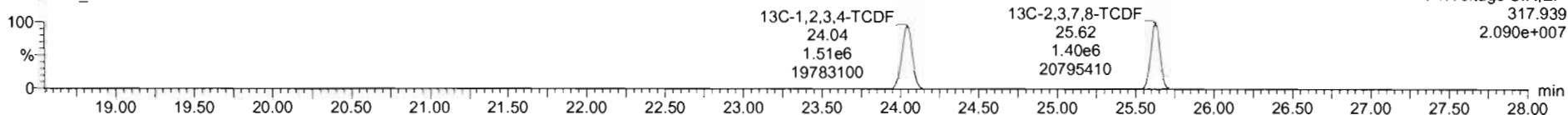


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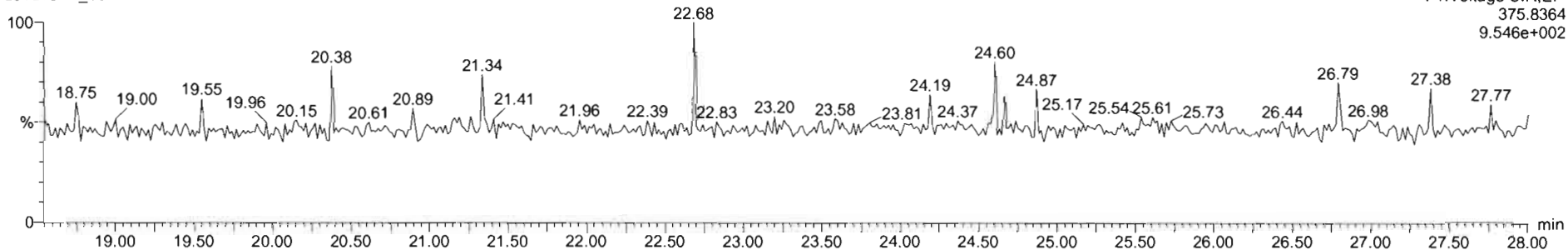


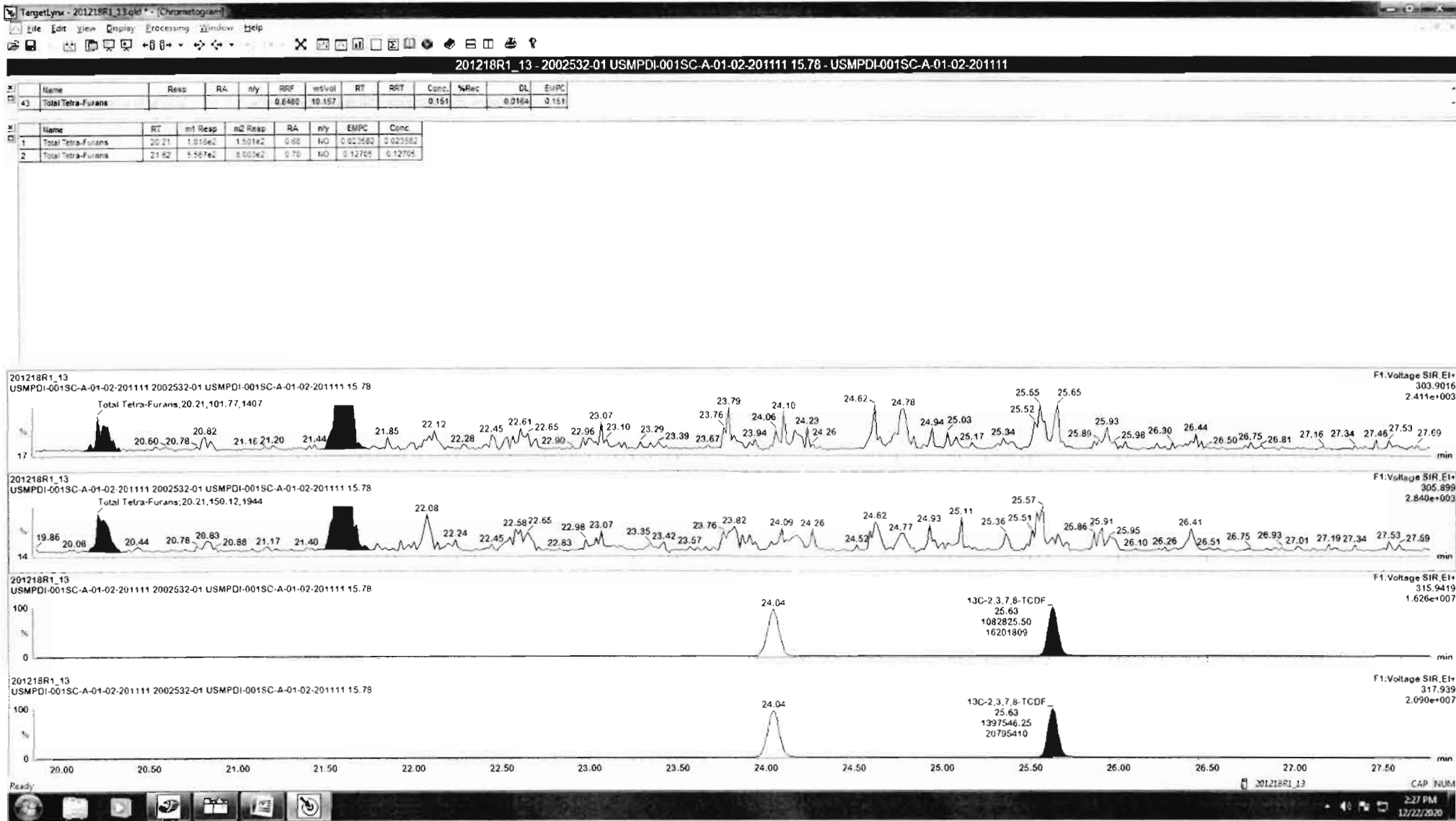
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DPE1

201218R1_13





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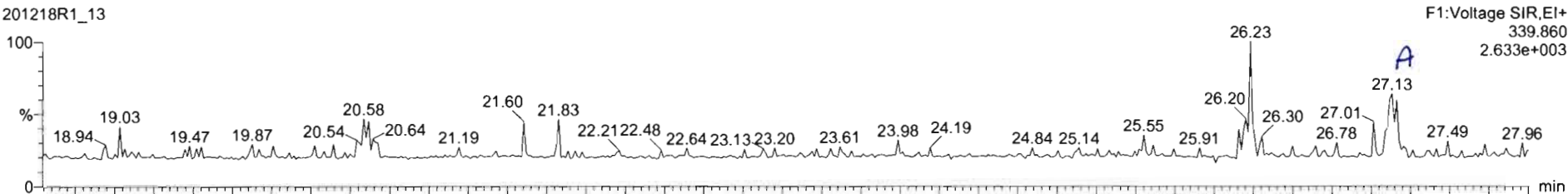
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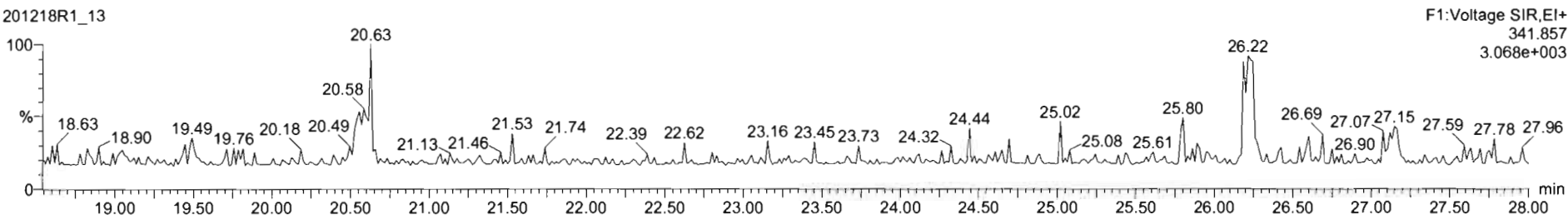
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1st Func. Penta-Furans

201218R1_13

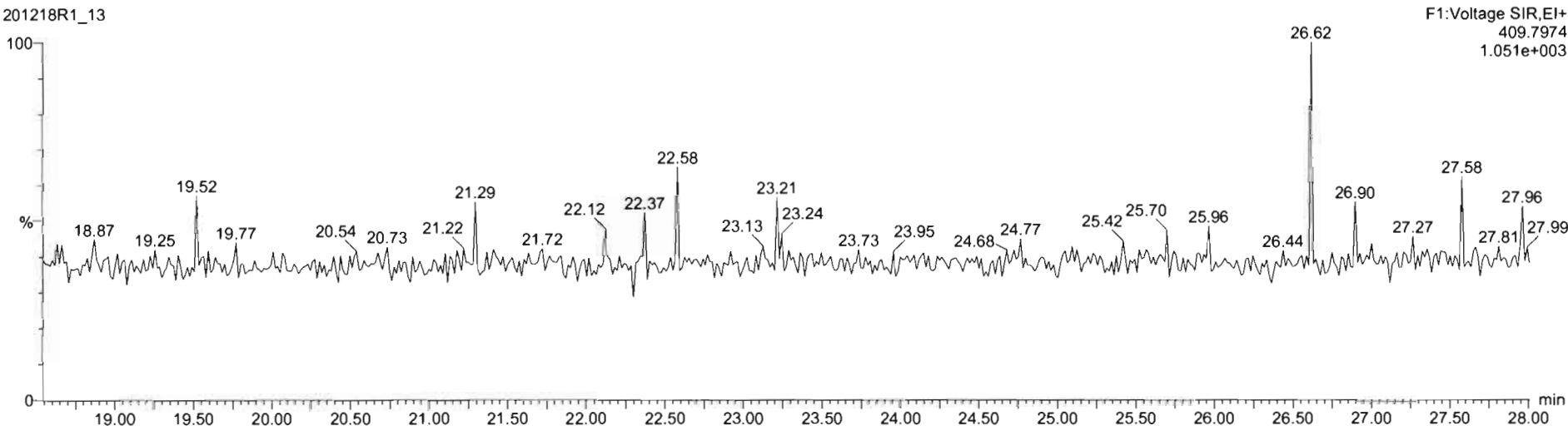


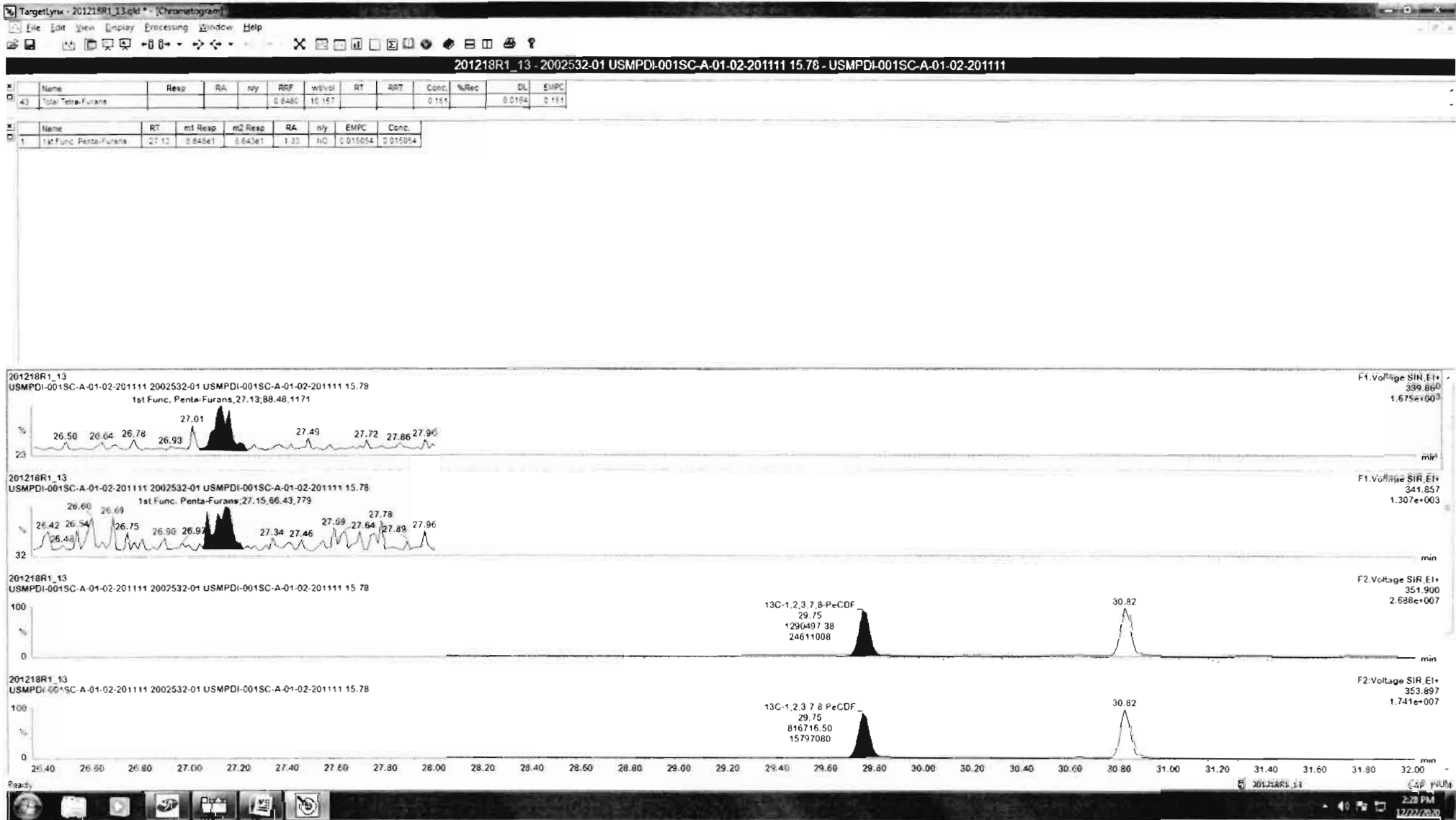
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DPE6

201218R1_13





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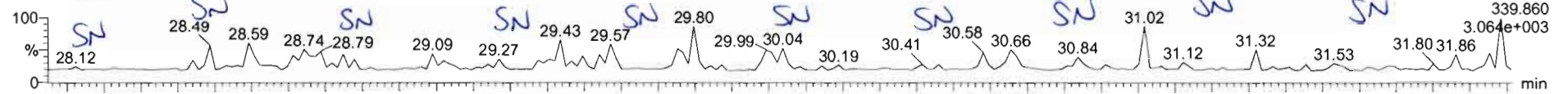
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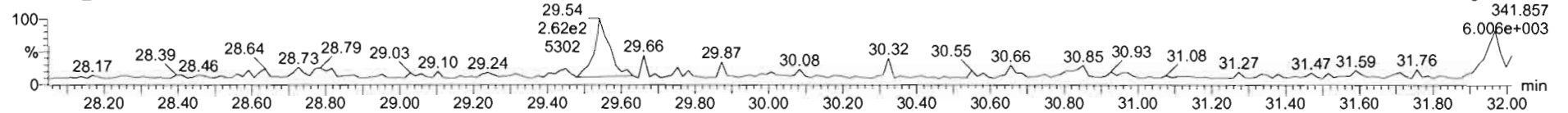
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1,2,3,7,8-PeCDF

201218R1_13

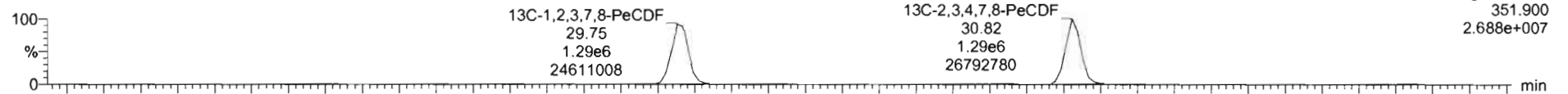


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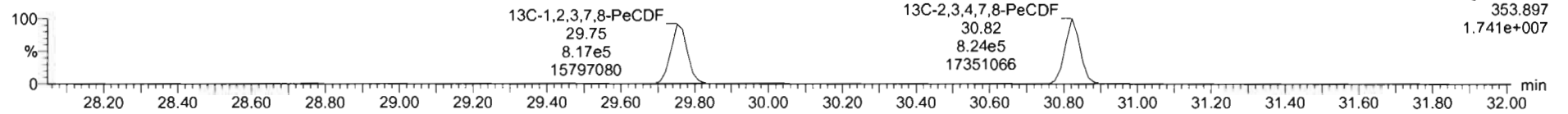


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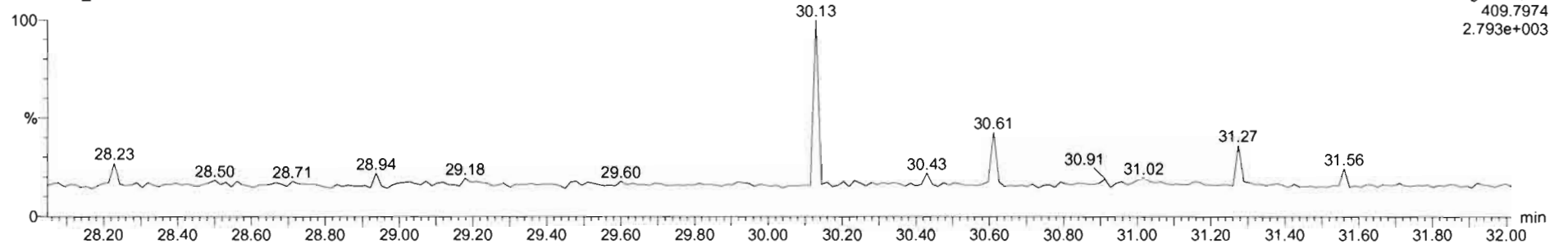


201218R1_13



DPE2

201218R1_13



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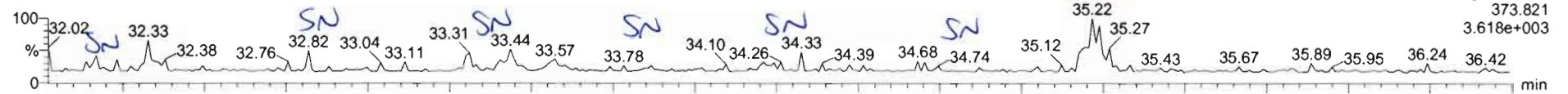
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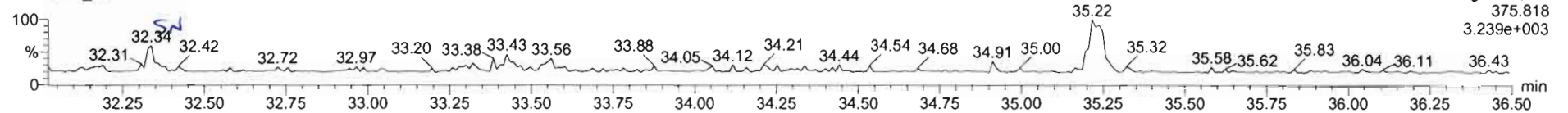
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1,2,3,4,7,8-HxCDF

201218R1_13

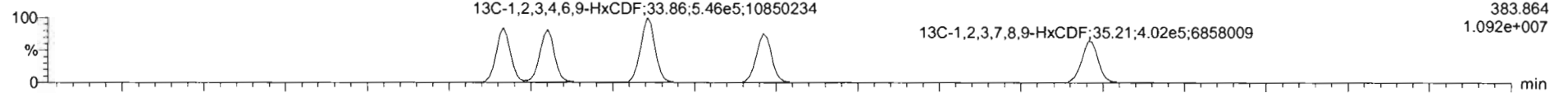


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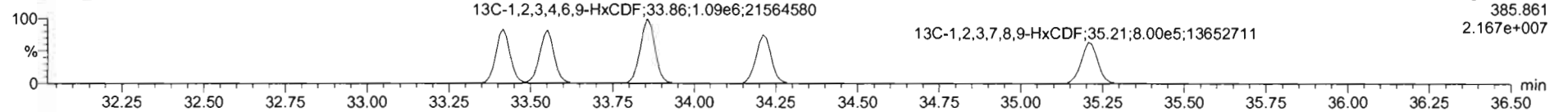


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201218R1_13

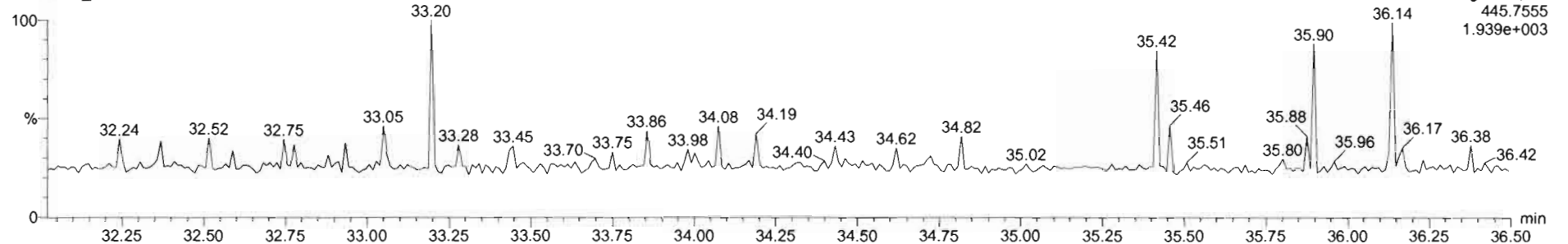


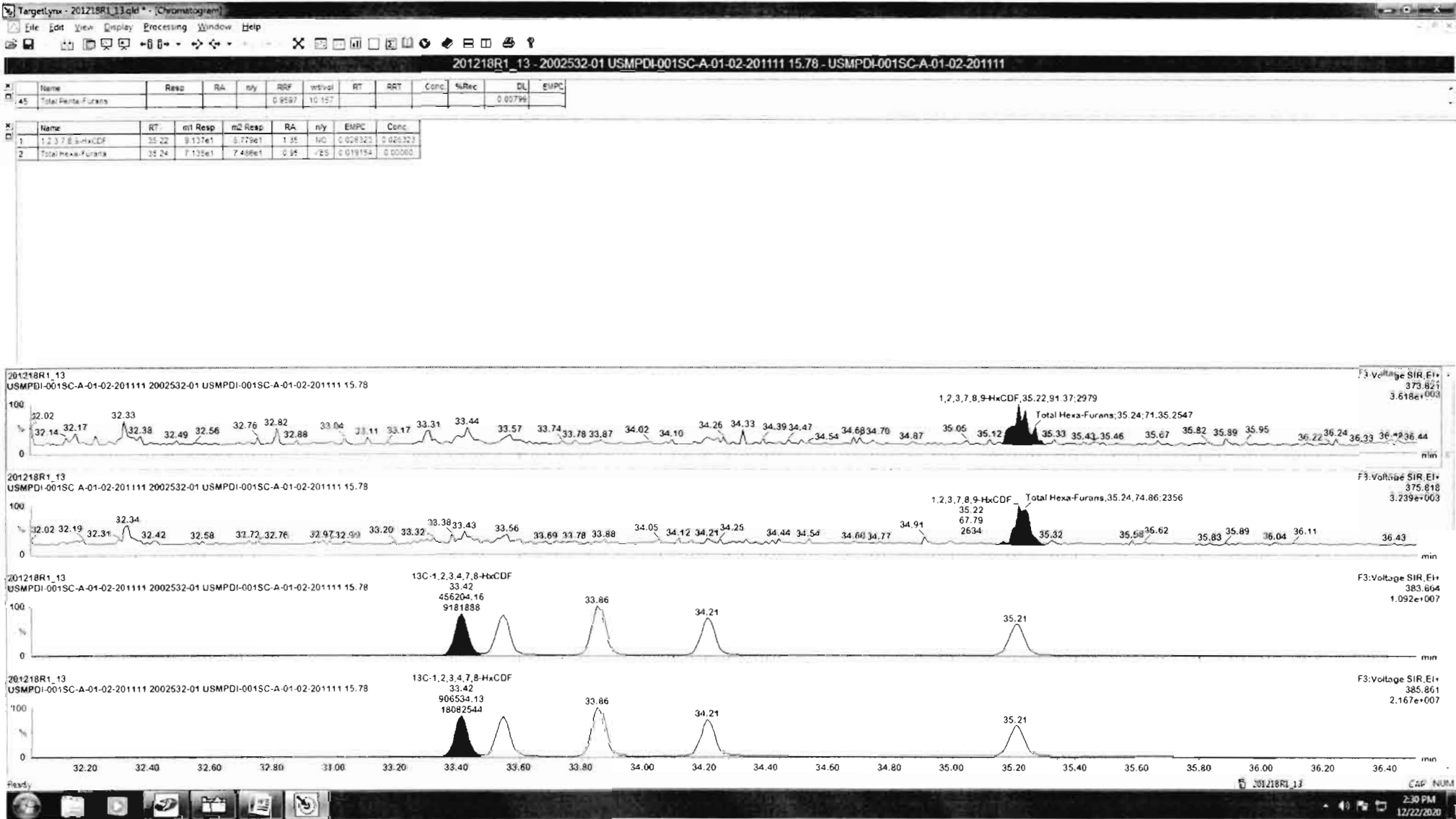
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DPE3

201218R1_13





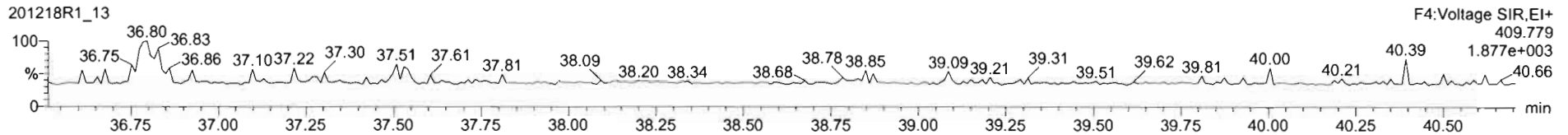
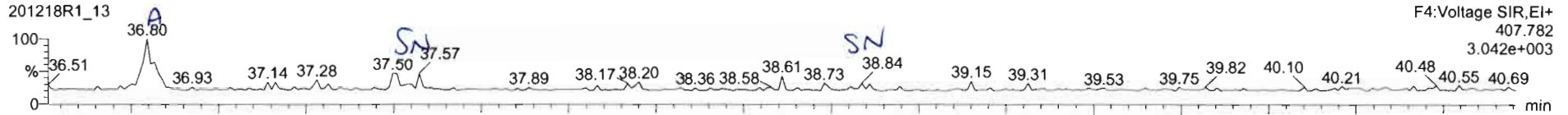
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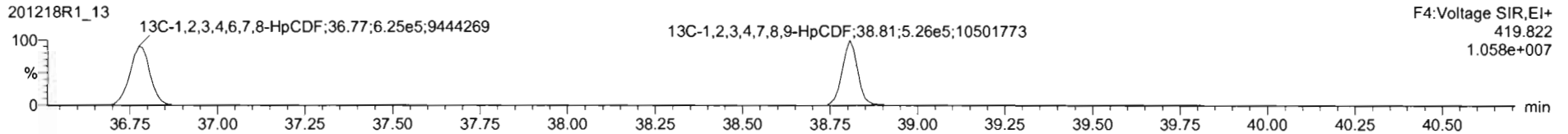
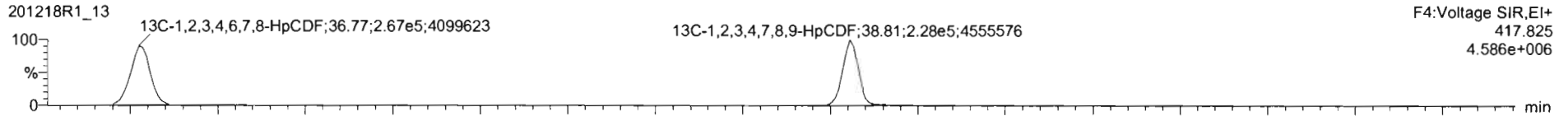
Printed: Sunday, December 20, 2020 08:10:42 Pacific Standard Time

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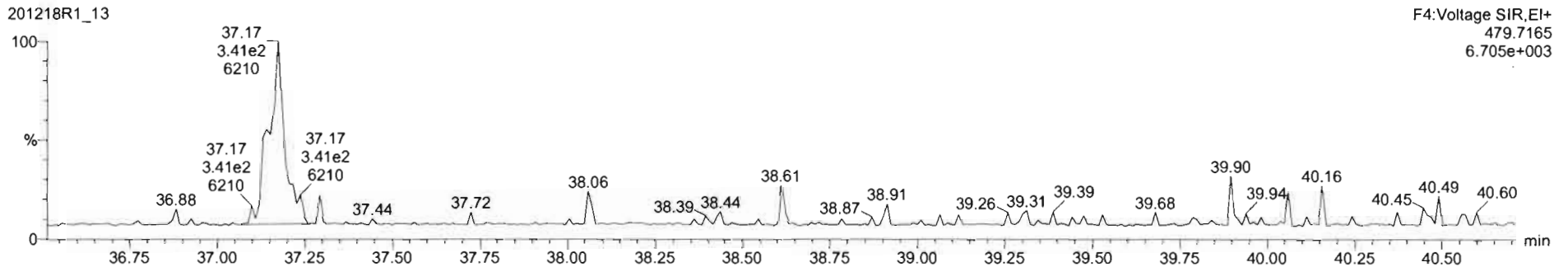
1,2,3,4,6,7,8-HpCDF

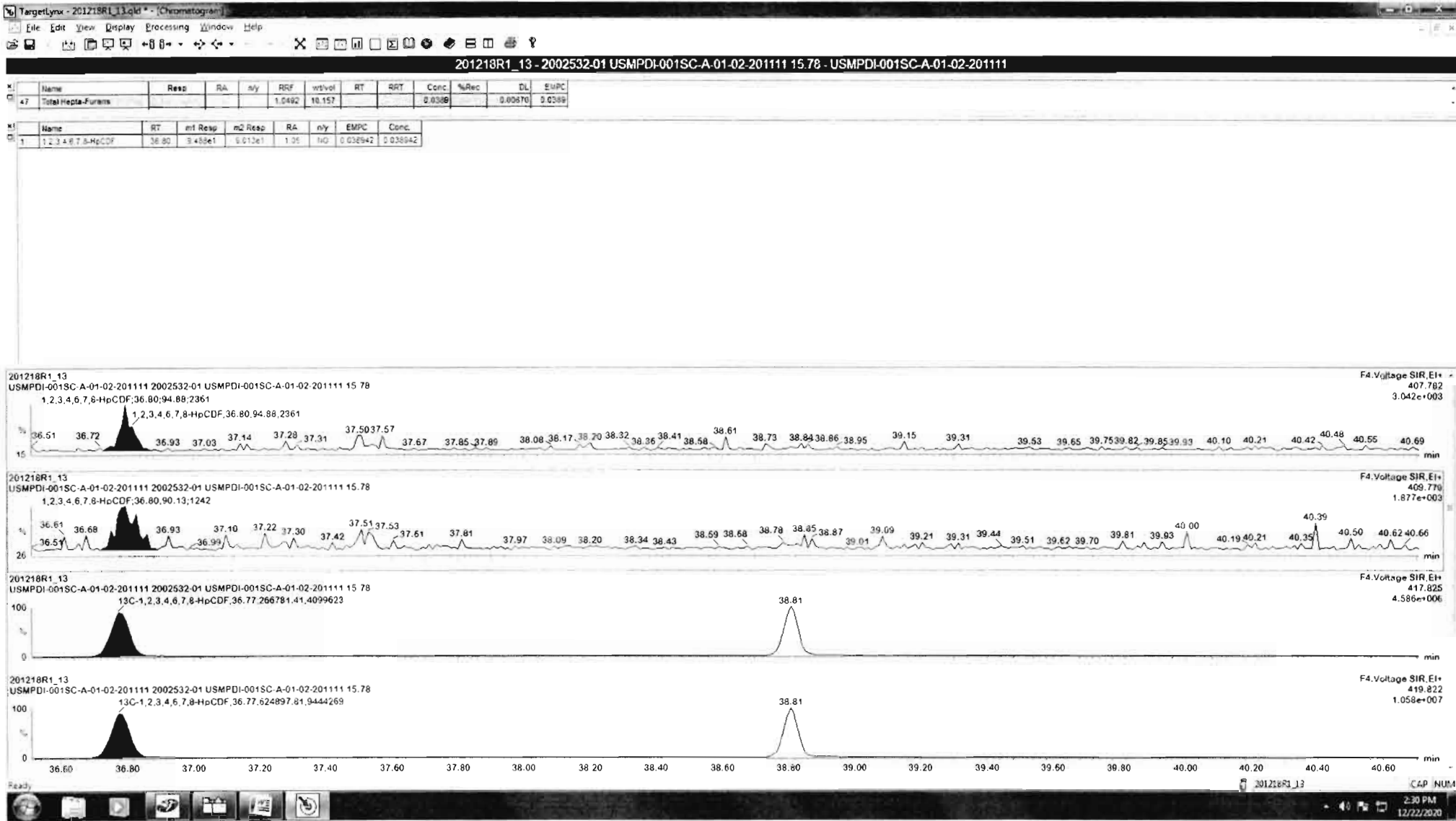


13C-1,2,3,4,6,7,8-HpCDF



DPE4





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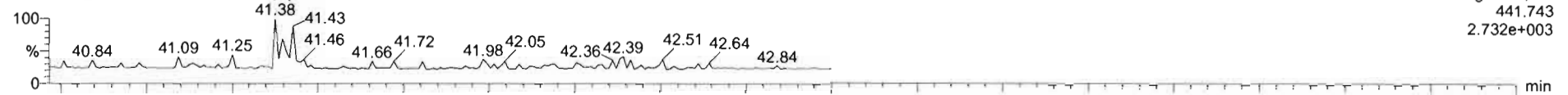
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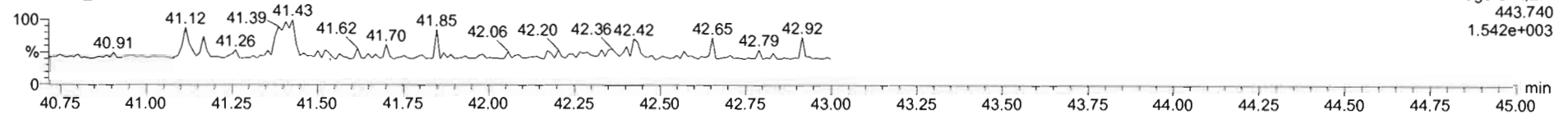
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OCDF

201218R1_13

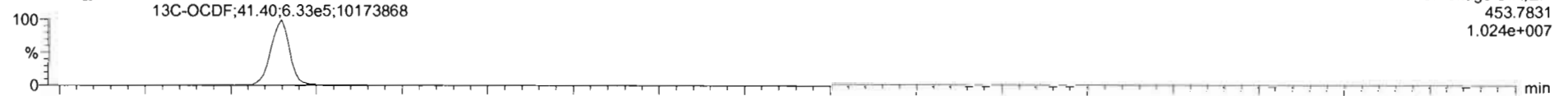


201218R1_13

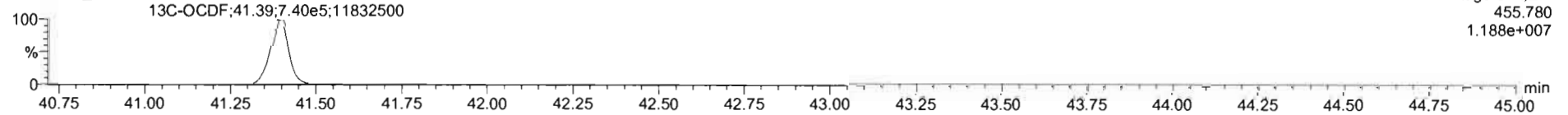


13C-OCDF

201218R1_13

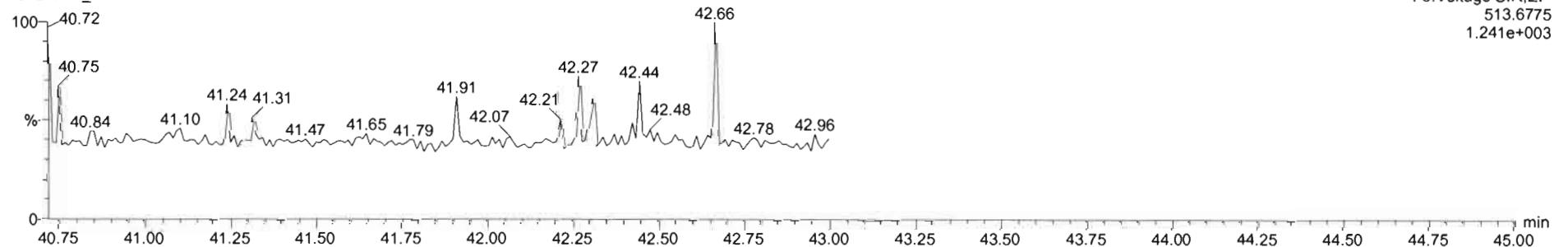


201218R1_13



DPE5

201218R1_13

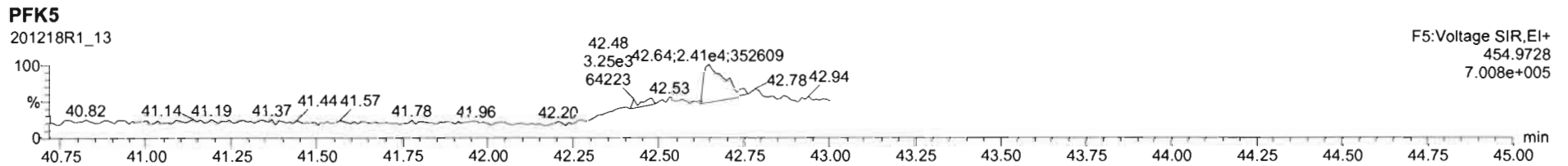
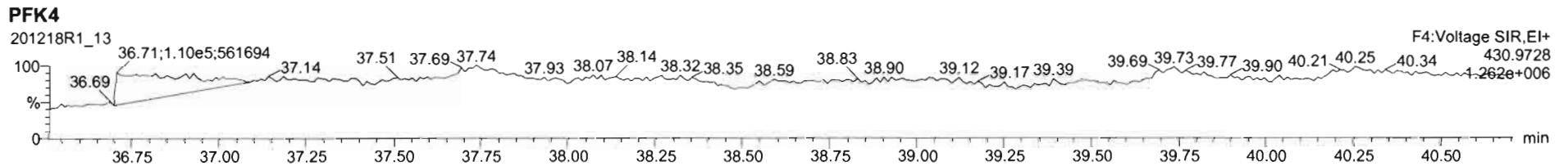
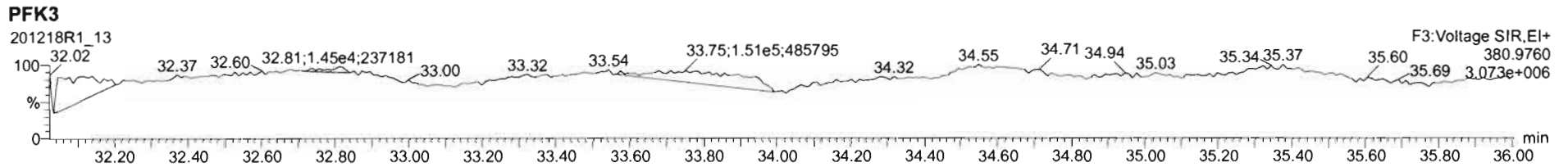
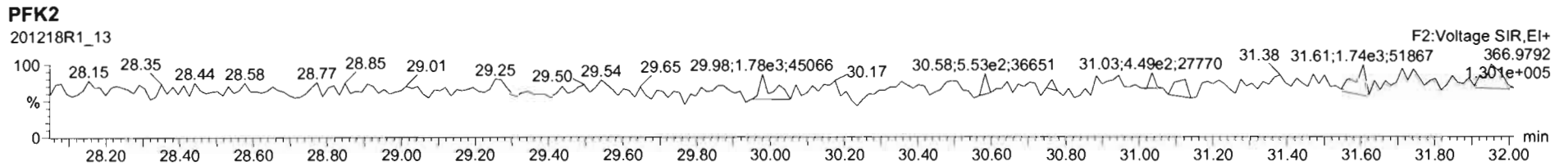
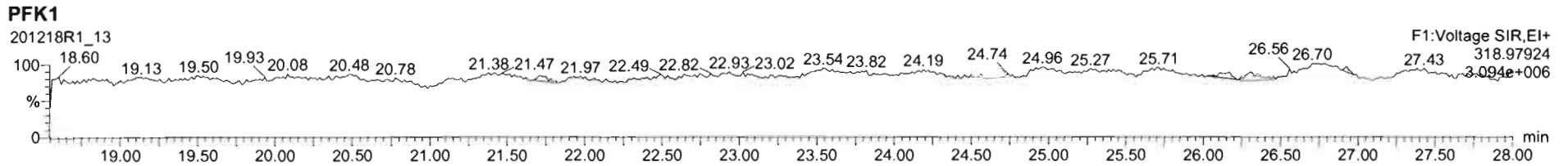


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Dataset: U:\VG12.PRO\Results\201220R1\201220R1-4.qld

Last Altered: Tuesday, December 22, 2020 3:03:58 PM Pacific Standard Time

Printed: Tuesday, December 22, 2020 3:04:14 PM Pacific Standard Time

GRB 12/22/2020

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

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12/22/20*

Name: 201220R1_4, Date: 20-Dec-2020, Time: 10:44:30, ID: 2002532-02 USMPDI-001SC-A-02-03-201111 14.33, Description: USMPDI-001SC-A-02-03-201111

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.980	10.035	26.322		1.001				0.0457	
2	2 1,2,3,7,8-PeCDD	8.11e2	0.70	NO	0.932	10.035	31.034	31.02	1.001	1.000	0.26341		0.130	0.263
3	3 1,2,3,4,7,8-HxCDD	4.25e2	1.35	NO	1.02	10.035	34.316	34.33	1.001	1.001	0.18862		0.170	0.189
4	4 1,2,3,6,7,8-HxCDD	7.03e2	1.39	NO	0.902	10.035	34.442	34.43	1.001	1.000	0.31757		0.174	0.318
5	5 1,2,3,7,8,9-HxCDD	1.77e3	1.18	NO	0.954	10.035	34.692	34.70	1.000	1.001	0.79331		0.182	0.793
6	6 1,2,3,4,6,7,8-HpCDD	2.30e3	1.05	NO	0.918	10.035	38.168	38.18	1.000	1.001	1.3043		0.101	1.30
7	7 OCDD	6.35e3	0.90	NO	0.866	10.035	41.092	41.10	1.000	1.000	5.0654		0.138	5.07
8	8 2,3,7,8-TCDF			NO	0.848	10.035	25.598		1.000				0.0263	
9	9 1,2,3,7,8-PeCDF			NO	0.960	10.035	29.739		1.000				0.0552	
10	10 2,3,4,7,8-PeCDF			NO	1.07	10.035	30.829		1.001				0.0490	
11	11 1,2,3,4,7,8-HxCDF	2.56e2	1.13	NO	0.986	10.035	33.405	33.42	1.000	1.001	0.091801		0.0284	0.0918
12	12 1,2,3,6,7,8-HxCDF	2.99e2	1.16	NO	1.04	10.035	33.551	33.54	1.001	1.000	0.10436		0.0292	0.104
13	13 2,3,4,6,7,8-HxCDF	3.89e2	1.37	NO	1.02	10.035	34.211	34.22	1.001	1.001	0.14543		0.0310	0.145
14	14 1,2,3,7,8,9-HxCDF	3.47e2	0.96	YES	0.991	10.035	35.196	35.21	1.000	1.001	0.14543		0.0412	0.129
15	15 1,2,3,4,6,7,8-HpCDF	5.69e2	1.18	NO	1.05	10.035	36.760	36.77	1.000	1.001	0.29788		0.0712	0.298
16	16 1,2,3,4,7,8,9-HpCDF	5.24e2	1.01	NO	1.18	10.035	38.796	38.81	1.000	1.001	0.27882		0.0555	0.279
17	17 OCDF	1.03e3	1.11	YES	0.896	10.035	41.375	41.38	1.000	1.000	0.73079		0.0724	0.655
18	18 13C-2,3,7,8-TCDD	7.74e5	0.78	NO	1.06	10.035	26.292	26.29	1.030	1.030	183.99	92.3	0.197	
19	19 13C-1,2,3,7,8-PeCDD	6.58e5	0.62	NO	0.785	10.035	31.120	31.00	1.219	1.215	210.42	106	0.215	
20	20 13C-1,2,3,4,7,8-HxCDD	4.40e5	1.28	NO	0.621	10.035	34.294	34.29	1.014	1.014	199.25	100	0.351	
21	21 13C-1,2,3,6,7,8-HxCDD	4.89e5	1.25	NO	0.734	10.035	34.416	34.42	1.017	1.017	187.03	93.8	0.297	
22	22 13C-1,2,3,7,8,9-HxCDD	4.66e5	1.27	NO	0.723	10.035	34.700	34.68	1.026	1.025	181.08	90.9	0.302	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.83e5	1.06	NO	0.568	10.035	38.195	38.16	1.129	1.128	189.24	94.9	0.897	
24	24 13C-OCDD	5.77e5	0.87	NO	0.496	10.035	41.129	41.08	1.216	1.214	326.95	82.0	0.709	
25	25 13C-2,3,7,8-TCDF	1.03e6	0.77	NO	0.919	10.035	25.592	25.59	1.003	1.003	183.36	92.0	0.267	
26	26 13C-1,2,3,7,8-PeCDF	8.95e5	1.60	NO	0.715	10.035	29.834	29.74	1.169	1.165	205.16	103	0.398	
27	27 13C-2,3,4,7,8-PeCDF	8.63e5	1.58	NO	0.689	10.035	30.919	30.81	1.212	1.207	205.38	103	0.413	
28	28 13C-1,2,3,4,7,8-HxCDF	5.63e5	0.51	NO	0.873	10.035	33.401	33.40	0.987	0.987	181.09	90.9	0.510	
29	29 13C-1,2,3,6,7,8-HxCDF	5.49e5	0.50	NO	0.933	10.035	33.529	33.53	0.991	0.991	165.26	82.9	0.478	
30	30 13C-2,3,4,6,7,8-HxCDF	5.22e5	0.50	NO	0.843	10.035	34.196	34.19	1.011	1.011	173.96	87.3	0.529	
31	31 13C-1,2,3,7,8,9-HxCDF	4.80e5	0.50	NO	0.780	10.035	35.194	35.19	1.040	1.040	172.74	86.7	0.572	

Dataset: U:\VG12.PRO\Results\201220R1\201220R1-4.qld

Last Altered: Tuesday, December 22, 2020 3:03:58 PM Pacific Standard Time

Printed: Tuesday, December 22, 2020 3:04:14 PM Pacific Standard Time

Name: 201220R1_4, Date: 20-Dec-2020, Time: 10:44:30, ID: 2002532-02 USMPDI-001SC-A-02-03-201111 14.33, Description: USMPDI-001SC-A-02-03-201111

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.63e5	0.43	NO	0.726	10.035	36.767	36.74	1.087	1.086	140.30	70.4	0.533	
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.19e5	0.43	NO	0.491	10.035	38.774	38.78	1.146	1.146	182.15	91.4	0.789	
34	34 13C-OCDF	6.25e5	0.87	NO	0.565	10.035	41.345	41.37	1.222	1.223	310.53	77.9	0.425	
35	35 37Cl-2,3,7,8-TCDD	3.54e5			1.22	10.035	26.287	26.31	1.030	1.031	72.932	91.5	0.0383	
36	36 13C-1,2,3,4-TCDD	7.95e5	0.78	NO	1.00	10.035	25.640	25.52	1.000	1.000	199.31	100	0.208	
37	37 13C-1,2,3,4-TCDF	1.22e6	0.78	NO	1.00	10.035	24.130	24.01	1.000	1.000	199.31	100	0.245	
38	38 13C-1,2,3,4,6,9-HxCDF	7.10e5	0.51	NO	1.00	10.035	33.920	33.83	1.000	1.000	199.31	100	0.446	
39	39 Total Tetra-Dioxins				0.980	10.035	24.620		0.000		0.20837		0.0457	0.208
40	40 Total Penta-Dioxins				0.932	10.035	29.960		0.000		0.84403		0.130	1.49
41	41 Total Hexa-Dioxins				0.902	10.035	33.635		0.000		4.3910		0.186	4.39
42	42 Total Hepta-Dioxins				0.918	10.035	37.640		0.000		3.0784		0.101	3.08
43	43 Total Tetra-Furans				0.848	10.035	23.610		0.000				0.0127	
44	44 1st Func. Penta-Furans				0.960	10.035	26.930		0.000				0.00643	
45	45 Total Penta-Furans				0.960	10.035	29.275		0.000				0.0181	
46	46 Total Hexa-Furans				1.02	10.035	33.555		0.000		0.34159		0.0318	0.543
47	47 Total Hepta-Furans				1.05	10.035	37.835		0.000		0.57670		0.0670	0.577

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201220R1\201220R1-4.qld

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Printed: Tuesday, December 22, 2020 3:04:14 PM Pacific Standard Time

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: 201220R1_4, Date: 20-Dec-2020, Time: 10:44:30, ID: 2002532-02 USMPDI-001SC-A-02-03-201111 14.33, Description: USMPDI-001SC-A-02-03-201111

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	24.19	4.471e3	6.623e3	3.430e2	4.509e2	0.76	NO	7.939e2	0.20837	0.20837	0.0457

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.22	3.712e3	6.490e3	2.219e2	4.064e2	0.55	NO	6.283e2	0.20405	0.20405	0.130
2	Total Penta-Dioxins	29.51	1.917e3	9.477e3	7.917e1	4.728e2	0.17	YES	0.000e0	0.00000	0.066528	0.130
3	Total Penta-Dioxins	29.74	9.682e3	2.837e3	3.797e2	2.006e2	1.89	YES	0.000e0	0.00000	0.10620	0.130
4	Total Penta-Dioxins	29.92	2.365e3	2.308e3	5.440e1	9.361e1	0.58	NO	0.000e0	0.00000	0.048071	0.130
5	Total Penta-Dioxins	29.95	2.252e3	4.563e3	1.217e2	2.682e2	0.45	YES	0.000e0	0.00000	0.10222	0.130
6	Total Penta-Dioxins	30.23	4.940e3	1.049e4	3.800e2	7.528e2	0.50	YES	0.000e0	0.00000	0.31927	0.130
7	1,2,3,7,8-PeCDD	31.02	7.720e3	9.975e3	3.348e2	4.762e2	0.70	NO	8.110e2	0.26341	0.26341	0.130
8	Total Penta-Dioxins	31.36	1.091e4	1.384e4	4.565e2	7.030e2	0.65	NO	1.159e3	0.37657	0.37657	0.130

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.68	3.546e4	2.770e4	1.780e3	1.494e3	1.19	NO	3.274e3	1.5549	1.5549	0.186
2	Total Hexa-Dioxins	33.55	2.578e4	2.159e4	1.686e3	1.365e3	1.24	NO	3.052e3	1.4491	1.4491	0.186
3	1,2,3,4,7,8-HxCDD	34.33	6.486e3	3.396e3	2.442e2	1.809e2	1.35	NO	4.251e2	0.18862	0.18862	0.170
4	1,2,3,6,7,8-HxCDD	34.43	6.801e3	4.712e3	4.085e2	2.945e2	1.39	NO	7.030e2	0.31757	0.31757	0.174
5	Total Hexa-Dioxins	34.63	2.273e3	1.523e3	9.889e1	8.543e1	1.16	NO	1.843e2	0.087521	0.087521	0.186
6	1,2,3,7,8,9-HxCDD	34.70	1.835e4	1.529e4	9.577e2	8.121e2	1.18	NO	1.770e3	0.79331	0.79331	0.182

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.16	2.097e4	1.892e4	1.565e3	1.562e3	1.00	NO	3.126e3	1.7741	1.7741	0.101
2	1,2,3,4,6,7,8-HpCDD	38.18	1.994e4	2.086e4	1.180e3	1.119e3	1.05	NO	2.299e3	1.3043	1.3043	0.101

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Dataset: U:\VG12.PRO\Results\201220R1\201220R1-4.qld

Last Altered: Tuesday, December 22, 2020 3:03:58 PM Pacific Standard Time

Printed: Tuesday, December 22, 2020 3:04:14 PM Pacific Standard Time

Name: 201220R1_4, Date: 20-Dec-2020, Time: 10:44:30, ID: 2002532-02 USMPDI-001SC-A-02-03-201111 14.33, Description: USMPDI-001SC-A-02-03-201111

Tetra-Furans

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

Penta-Furans function 1

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

Penta-Furans

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

Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	32.14	1.552e3	1.545e3	8.238e1	5.236e1	1.57	YES	0.000e0	0.00000	0.043343	0.0318
2	33.42	3.042e3	2.205e3	1.354e2	1.204e2	1.13	NO	2.558e2	0.091801	0.091801	0.0284
3	33.54	3.186e3	3.987e3	1.608e2	1.381e2	1.16	NO	2.988e2	0.10436	0.10436	0.0292
4	34.22	4.746e3	2.921e3	2.244e2	1.643e2	1.37	NO	3.888e2	0.14543	0.14543	0.0310
5	35.21	4.021e3	4.425e3	1.703e2	1.767e2	0.96	YES	3.469e2	0.00000	0.12893	0.0412
6	35.24	3.025e3	1.914e3	6.241e1	3.494e1	1.79	YES	0.000e0	0.00000	0.028925	0.0318

Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	36.77	6.125e3	5.027e3	3.080e2	2.612e2	1.18	NO	5.692e2	0.29788	0.29788	0.0712
2	38.81	5.372e3	6.058e3	2.633e2	2.608e2	1.01	NO	5.241e2	0.27882	0.27882	0.0555

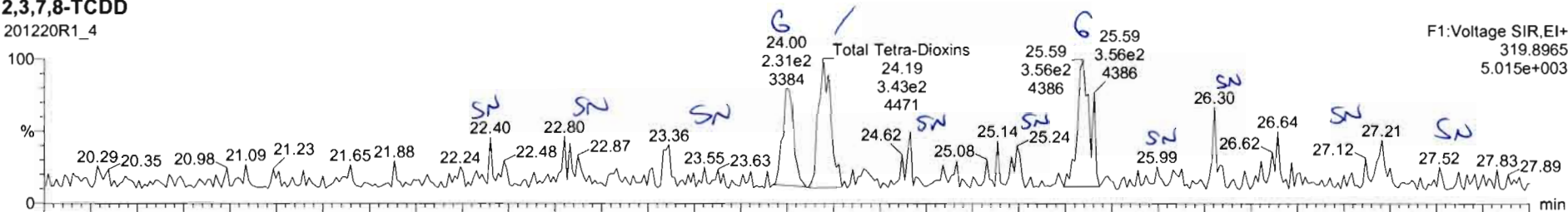
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Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

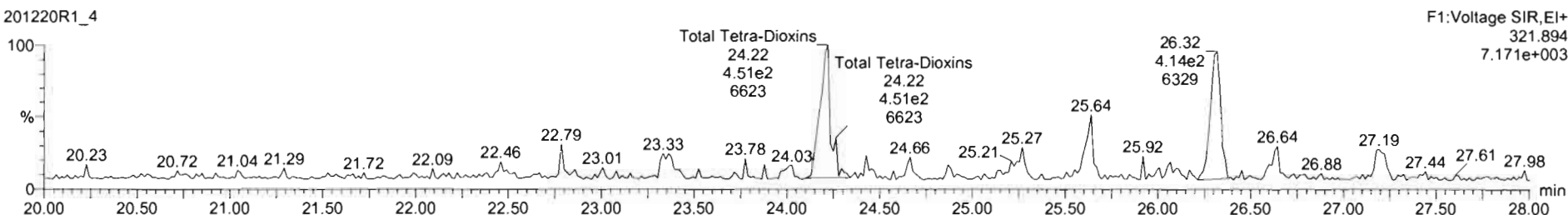
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2,3,7,8-TCDD

201220R1_4

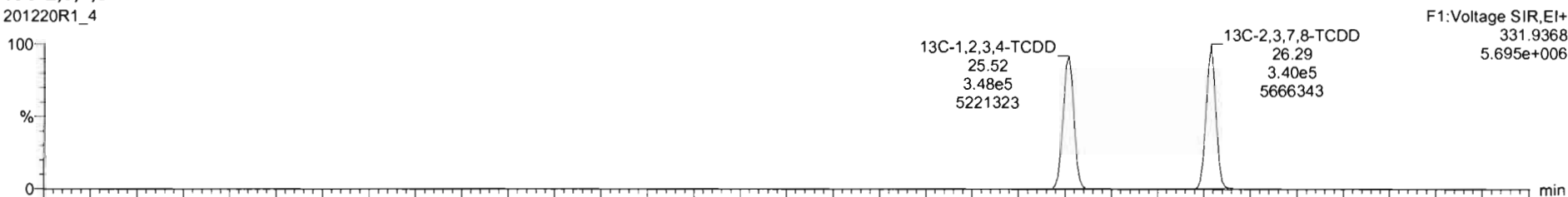


201220R1_4

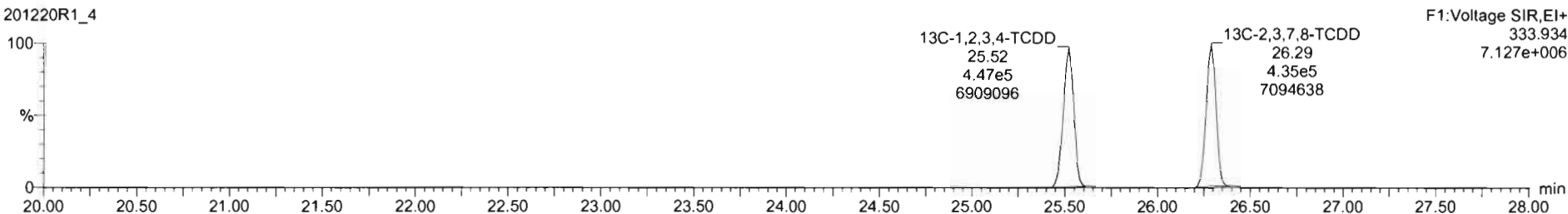


13C-2,3,7,8-TCDD

201220R1_4



201220R1_4



Dataset: Untitled

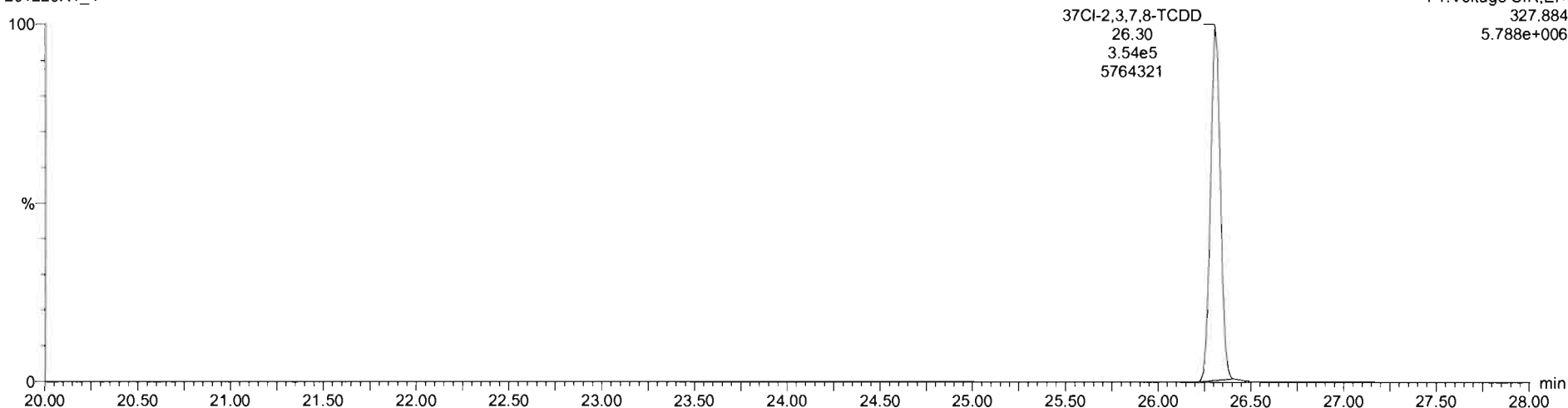
Last Altered: Monday, December 21, 2020 06:50:00 Pacific Standard Time

Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

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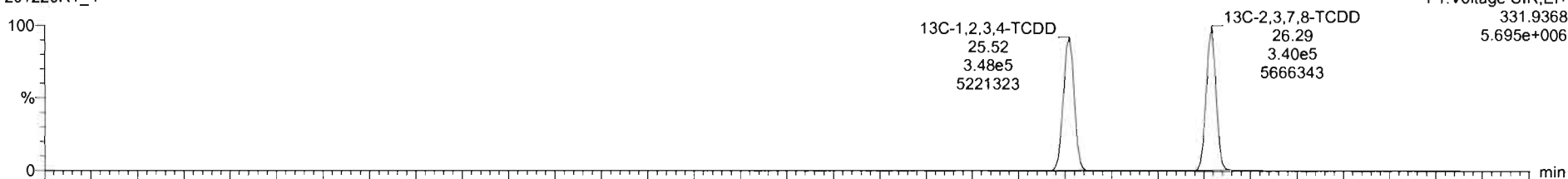
37Cl-2,3,7,8-TCDD

201220R1_4

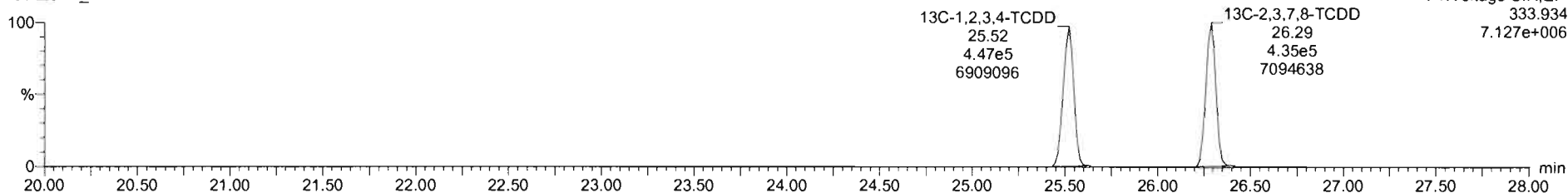


13C-1,2,3,4-TCDD

201220R1_4



201220R1_4



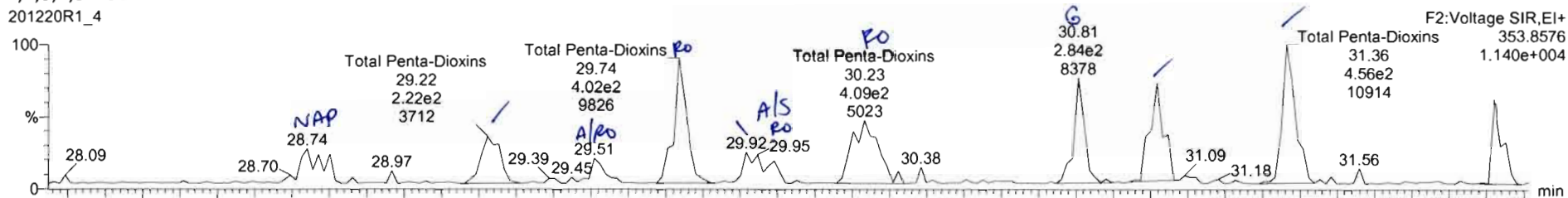
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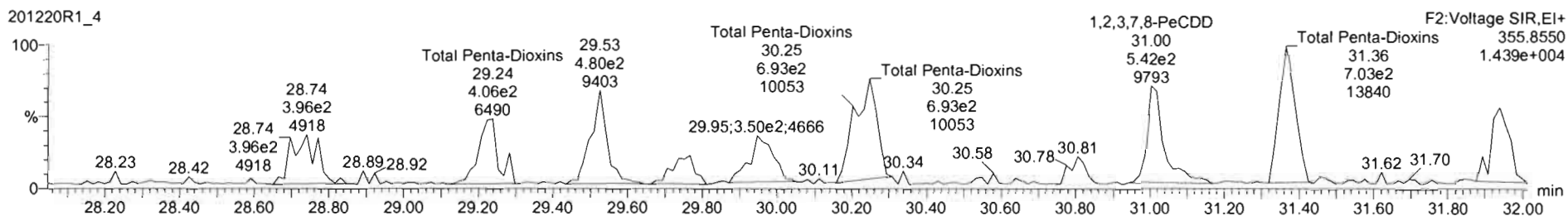
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1,2,3,7,8-PeCDD

201220R1_4

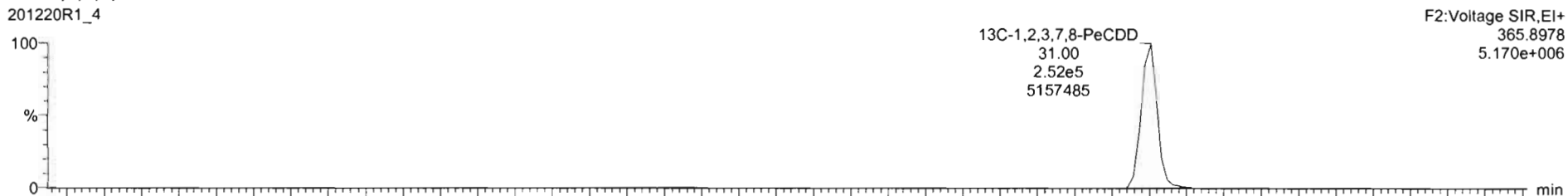


201220R1_4

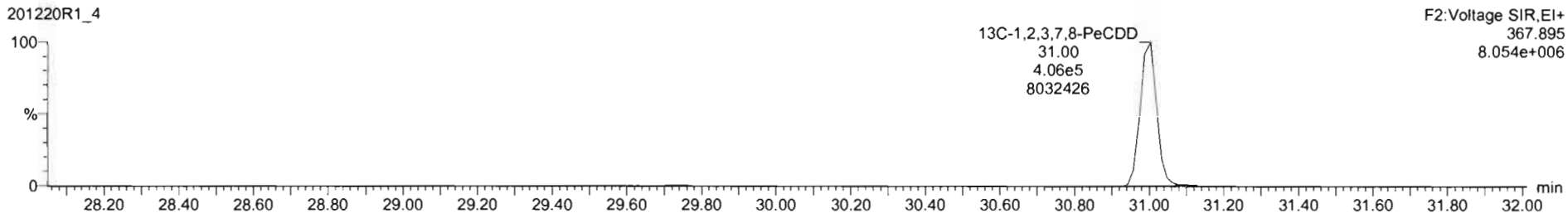


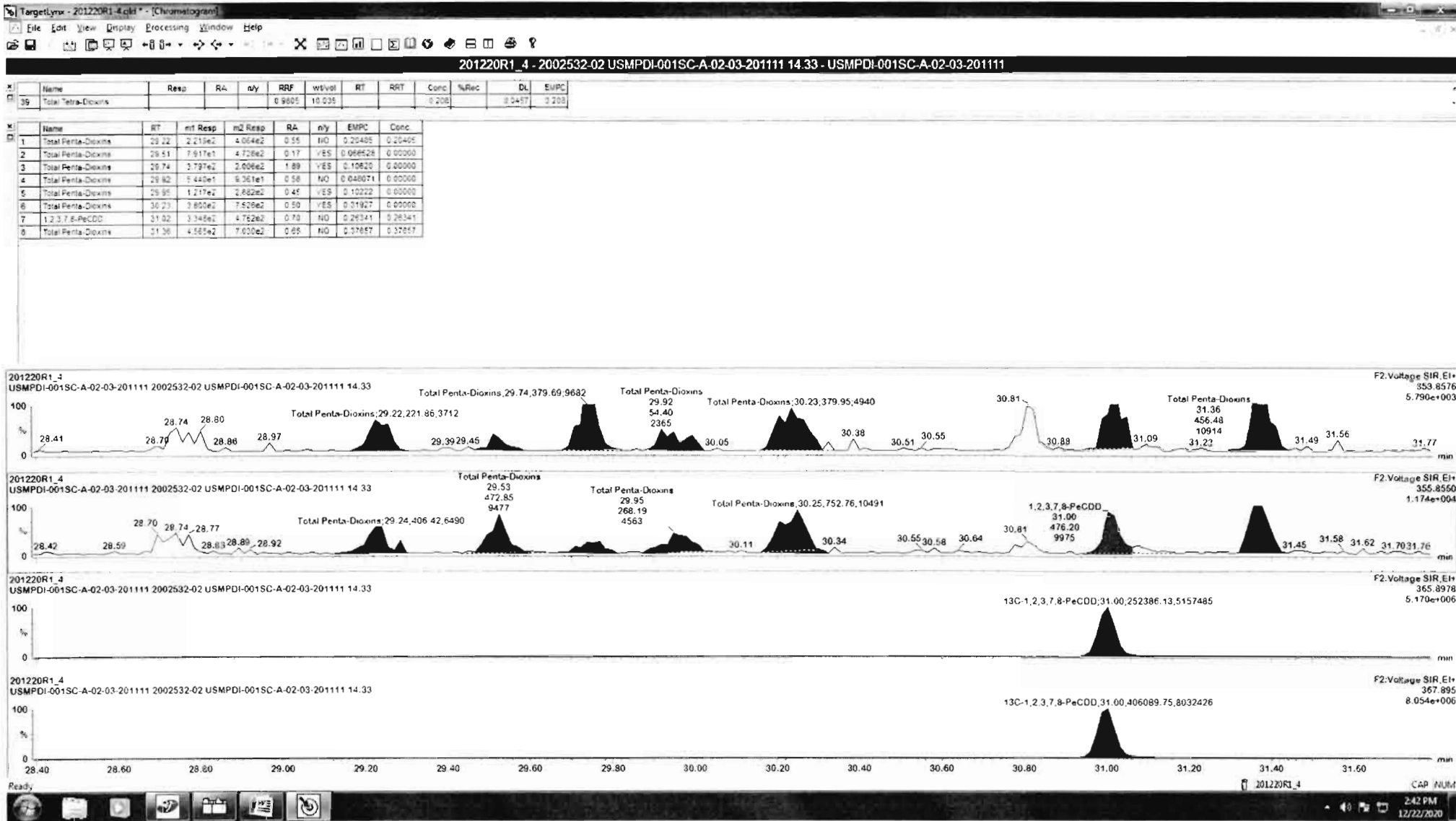
13C-1,2,3,7,8-PeCDD

201220R1_4



201220R1_4



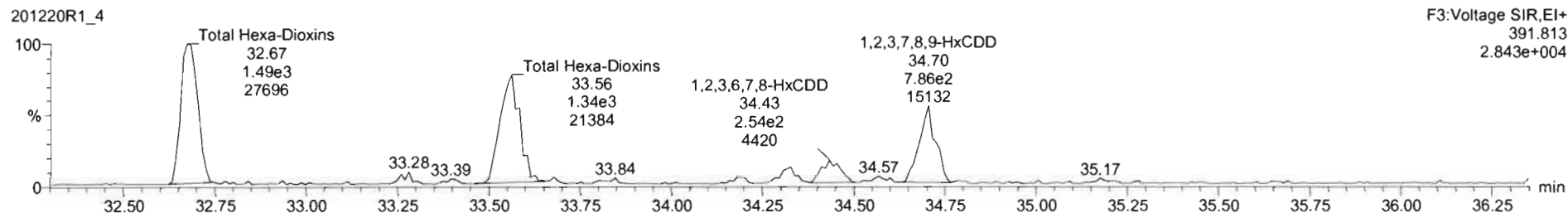
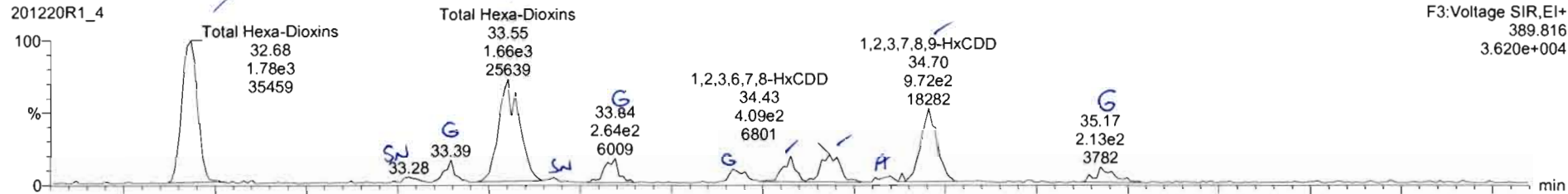


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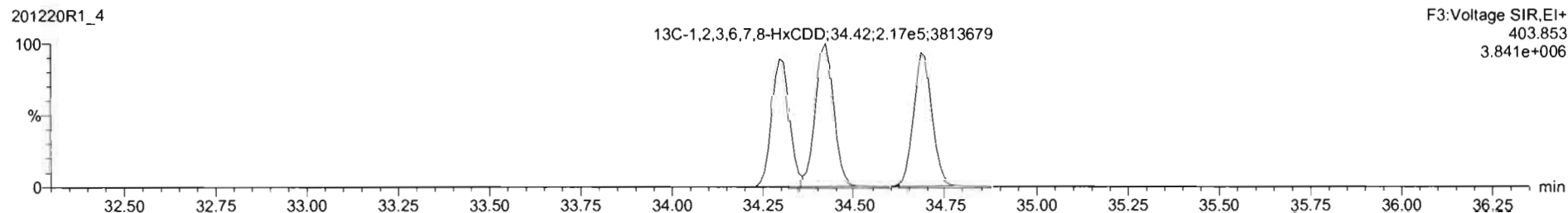
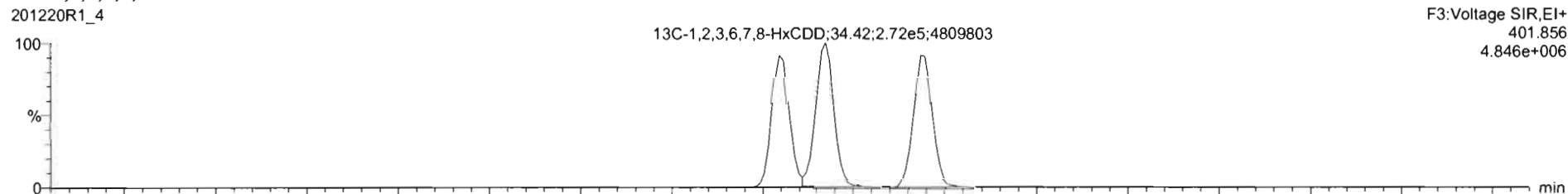
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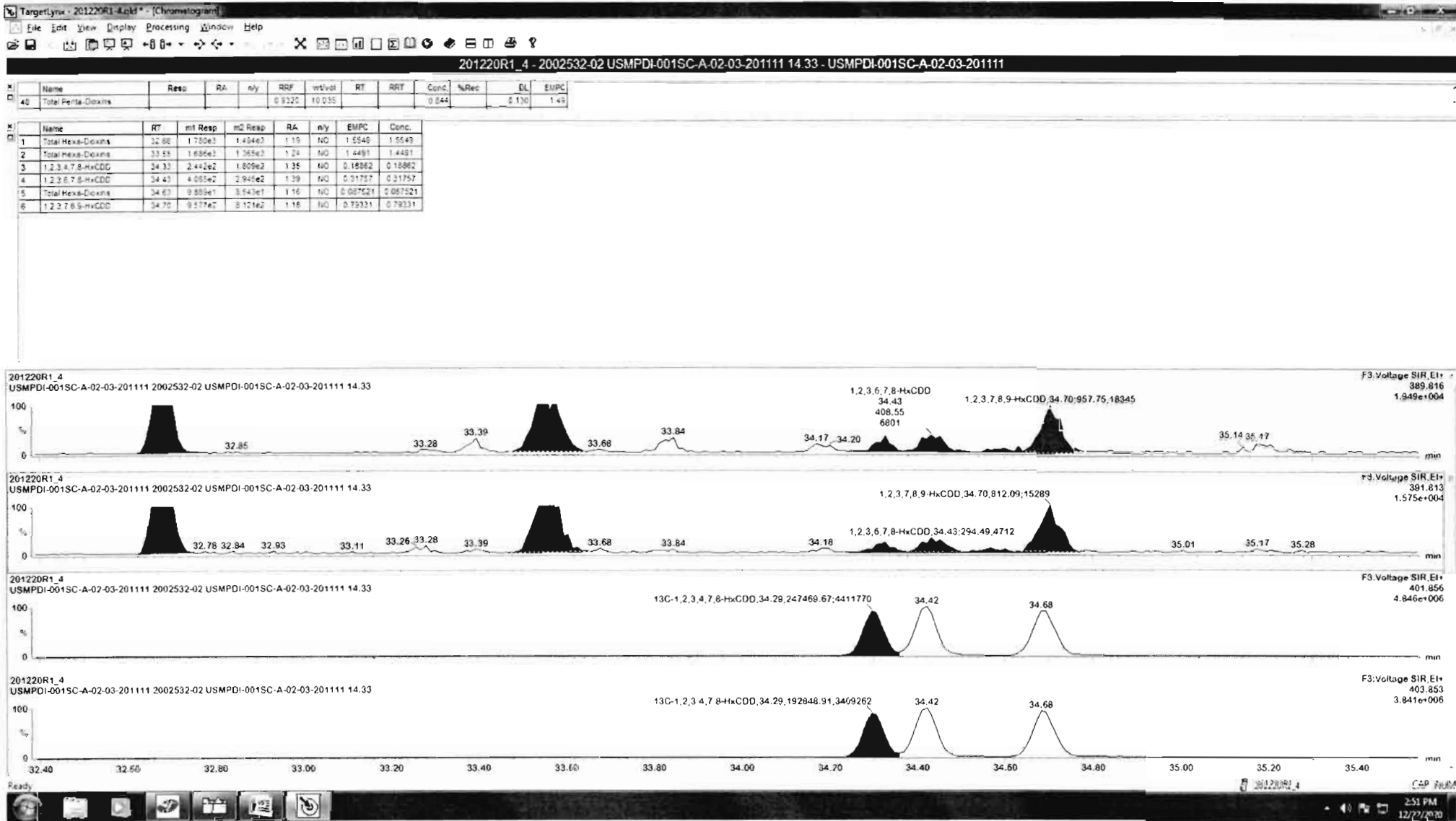
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1,2,3,4,7,8-HxCDD



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





Dataset: Untitled

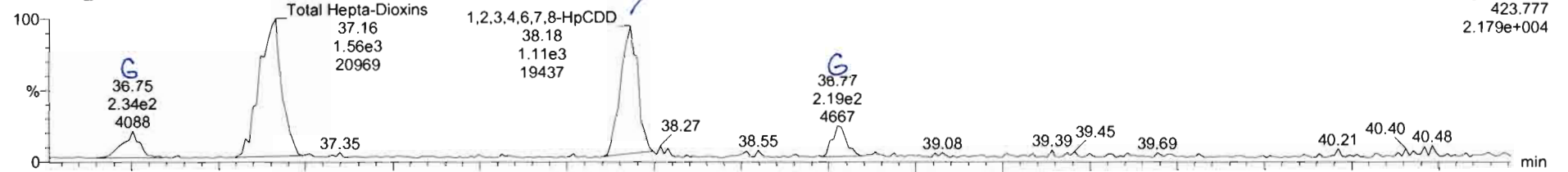
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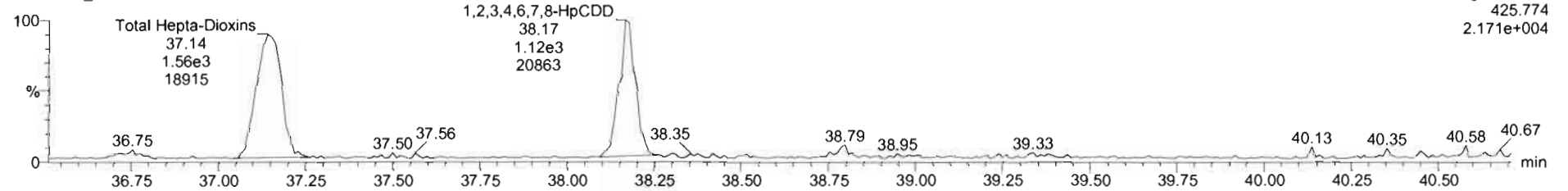
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1,2,3,4,6,7,8-HpCDD

201220R1_4

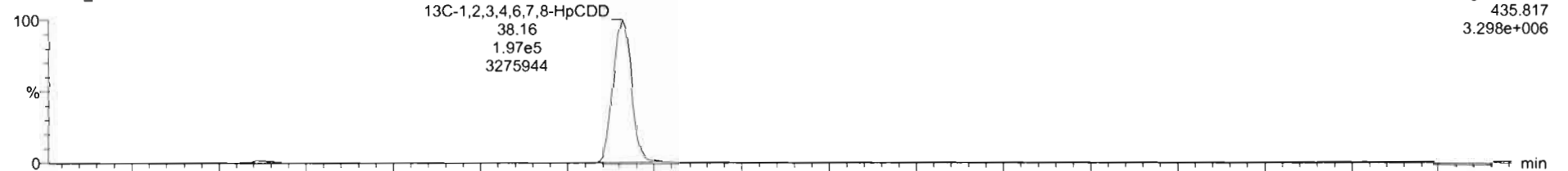


201220R1_4

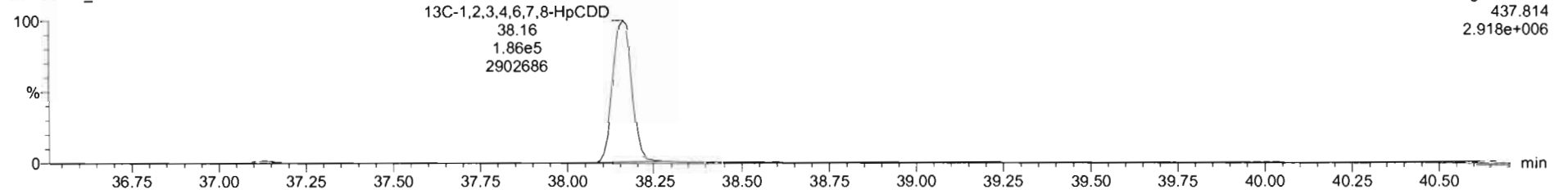


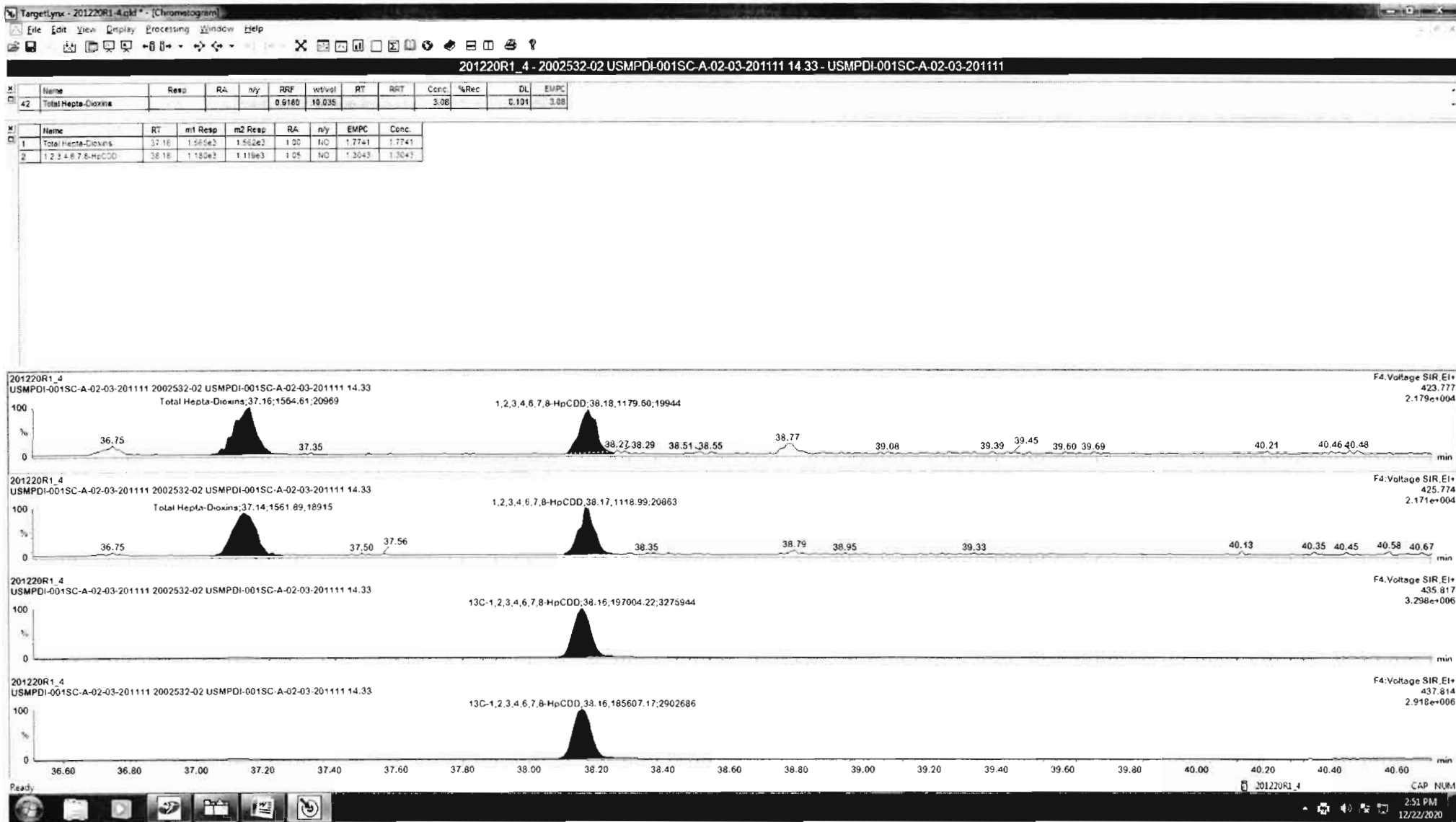
13C-1,2,3,4,6,7,8-HpCDD

201220R1_4



201220R1_4



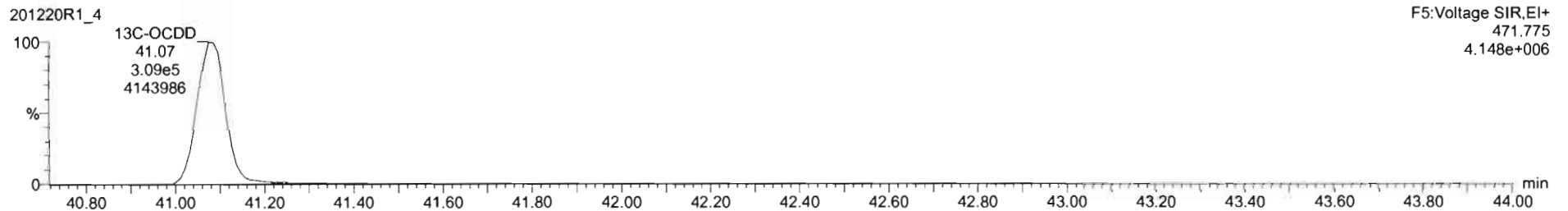
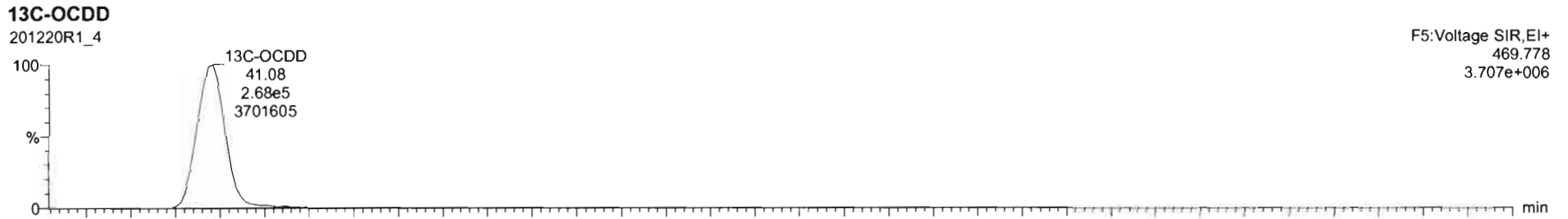
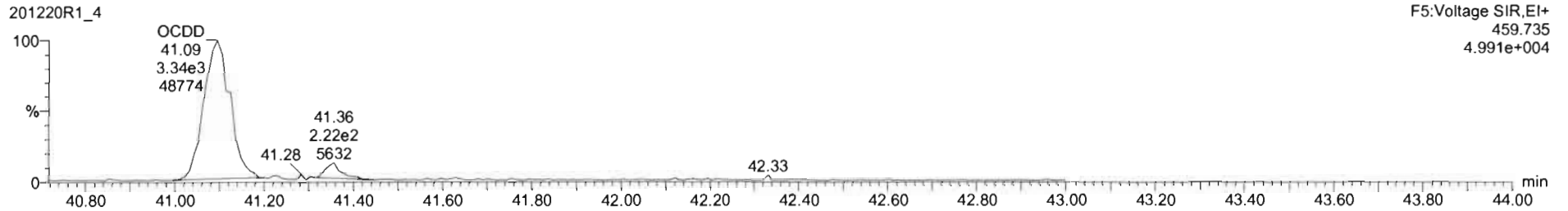
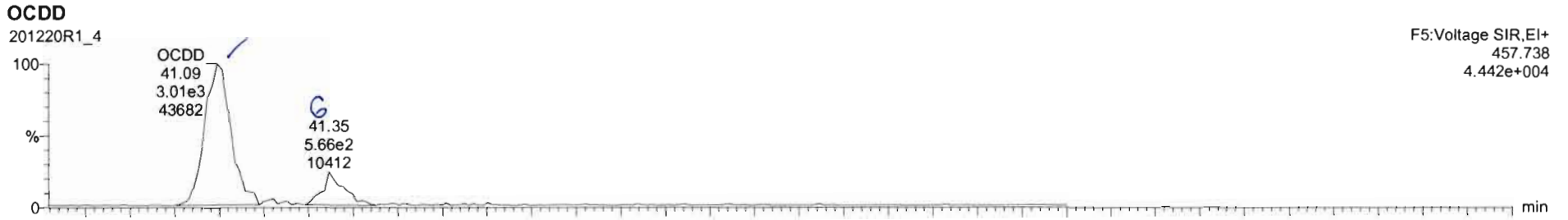


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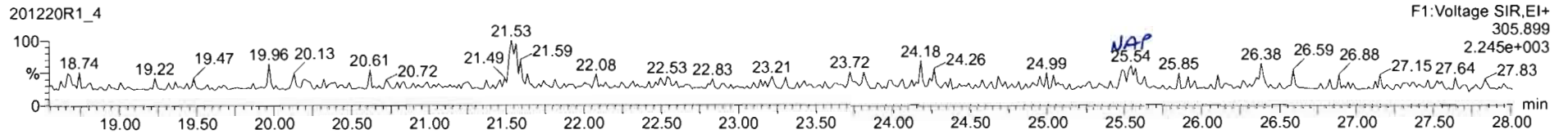
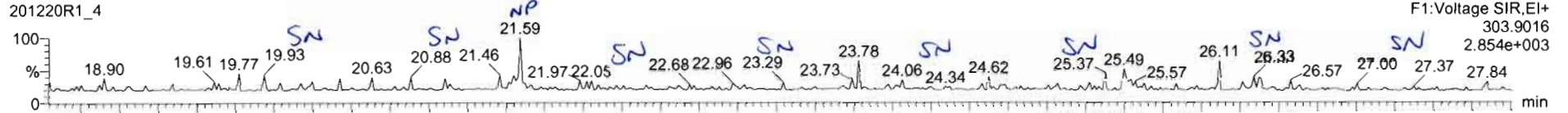


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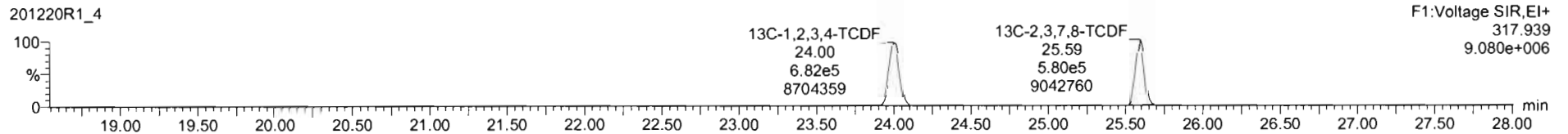
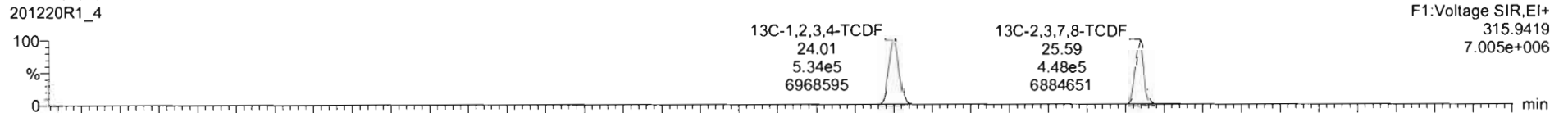
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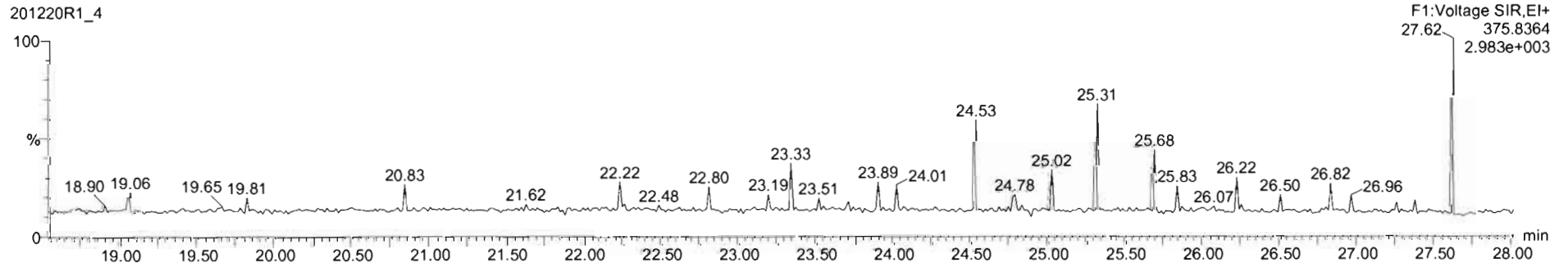
2,3,7,8-TCDF



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



DPE1



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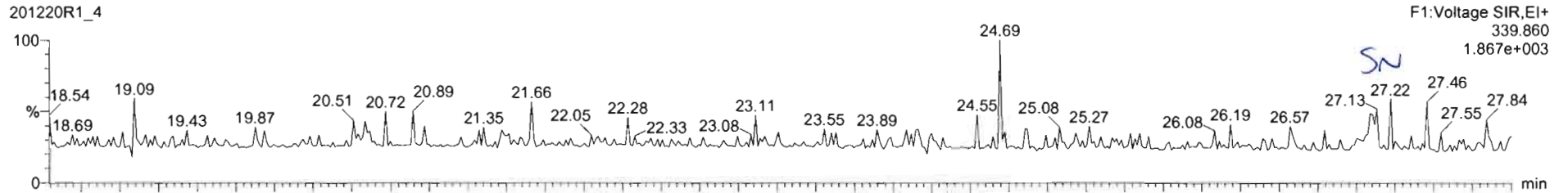
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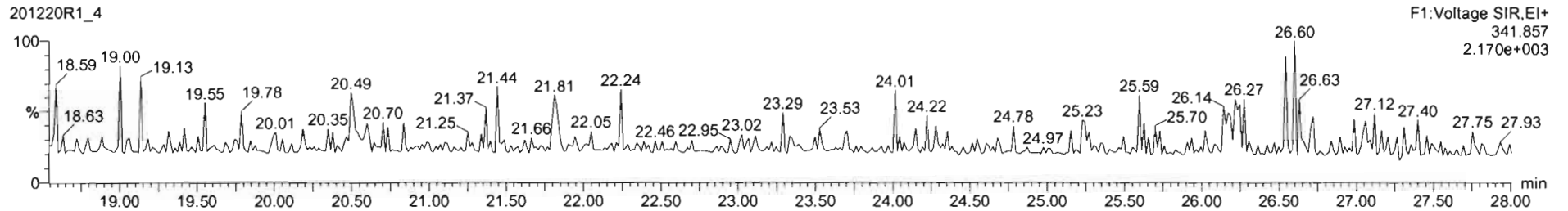
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201220R1_4

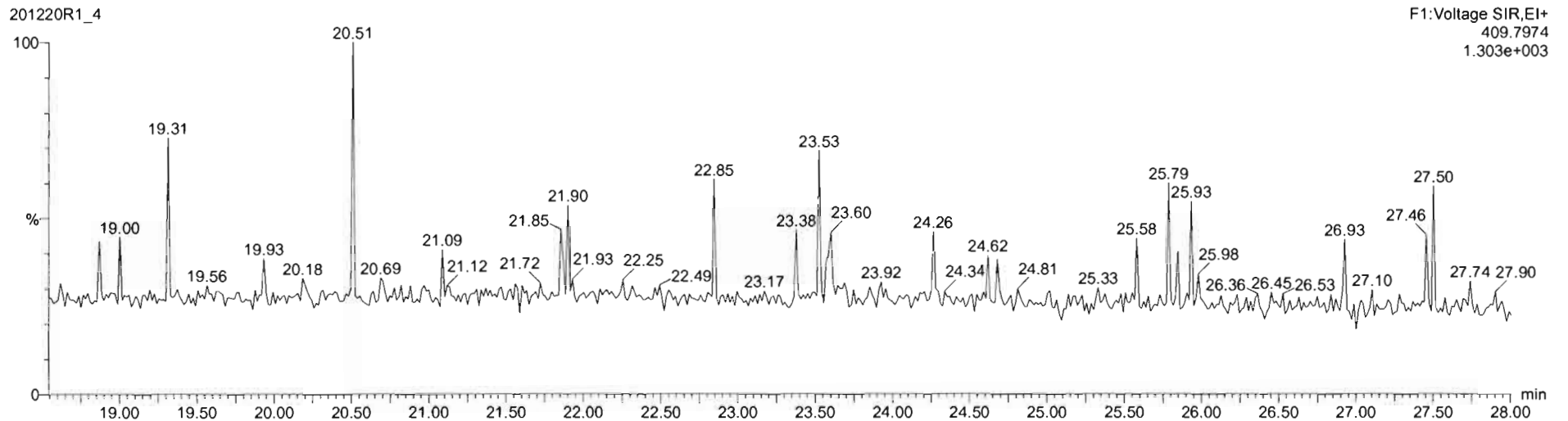


201220R1_4



DPE6

201220R1_4



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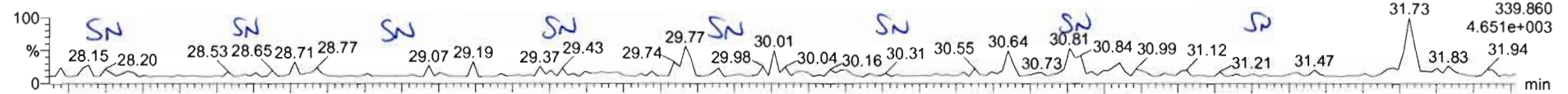
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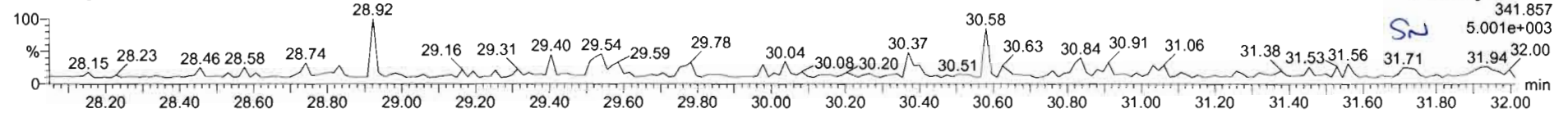
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1,2,3,7,8-PeCDF

201220R1_4

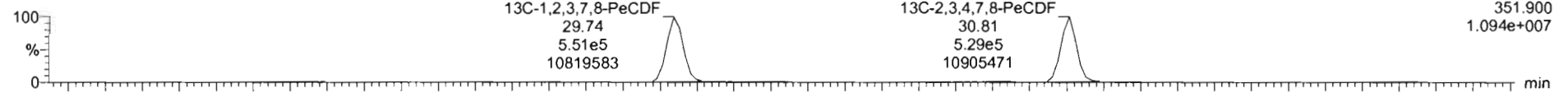


201220R1_4

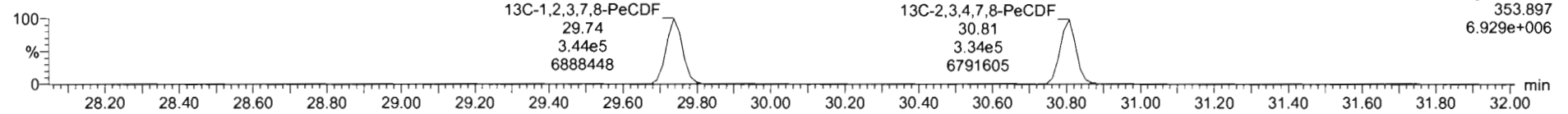


13C-1,2,3,7,8-PeCDF

201220R1_4

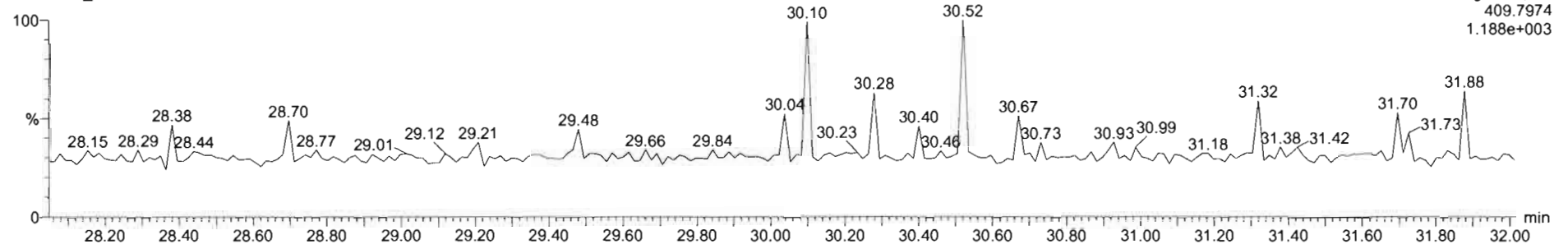


201220R1_4



DPE2

201220R1_4

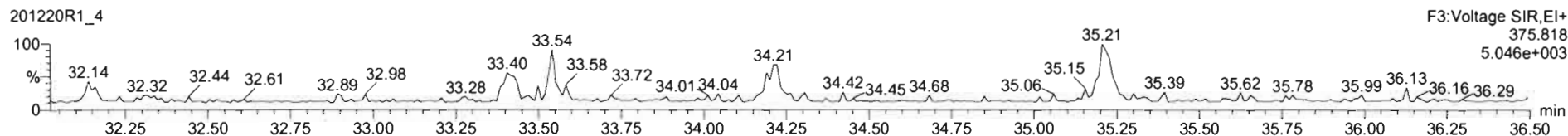
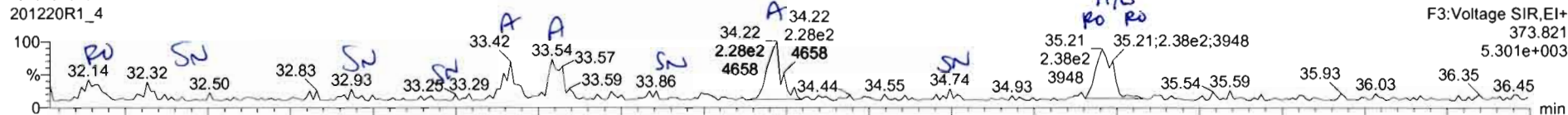


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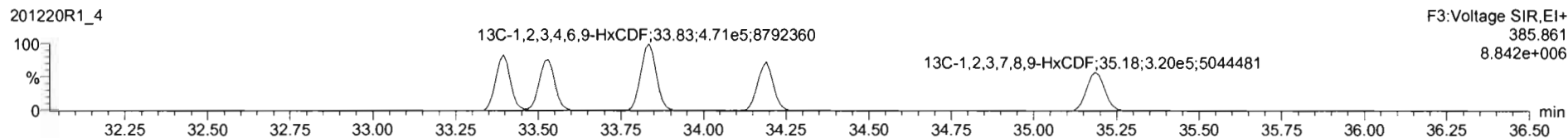
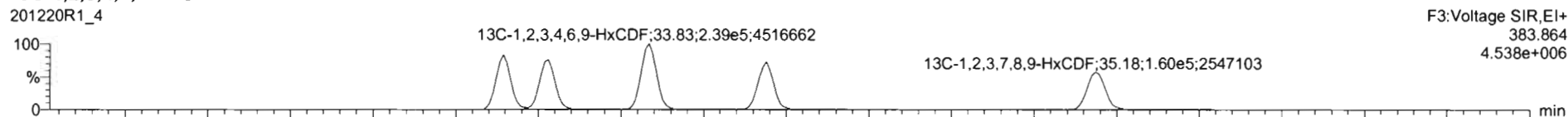
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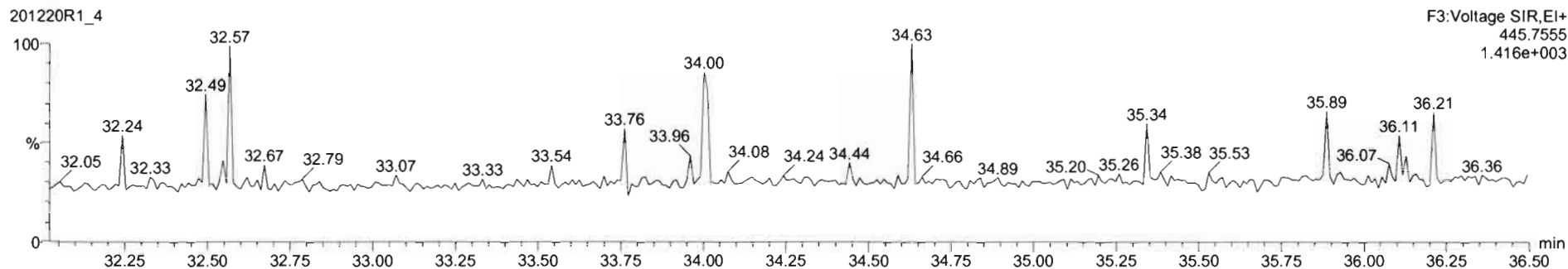
1,2,3,4,7,8-HxCDF

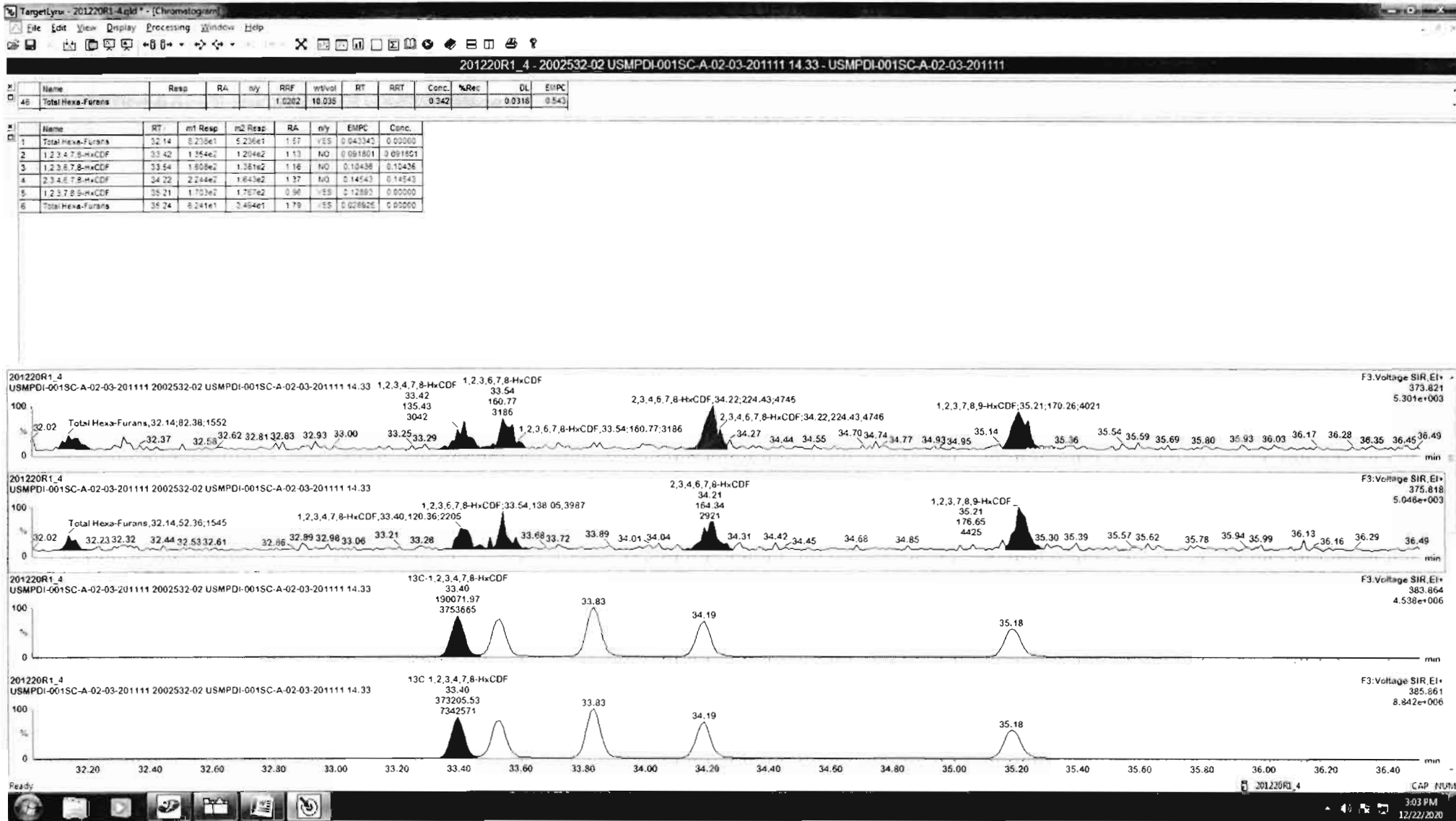


13C-1,2,3,4,7,8-HxCDF



DPE3





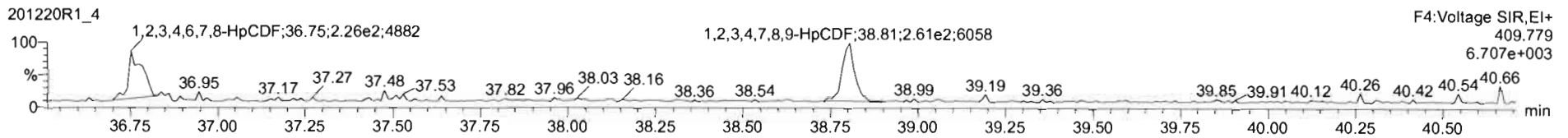
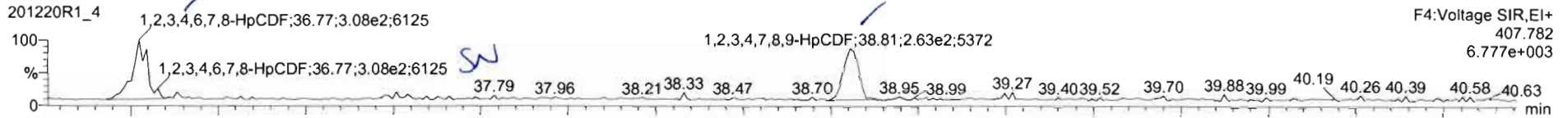
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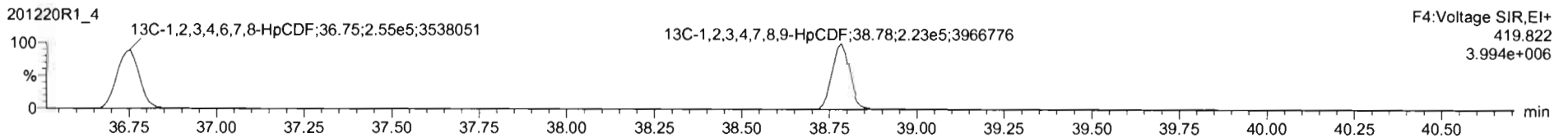
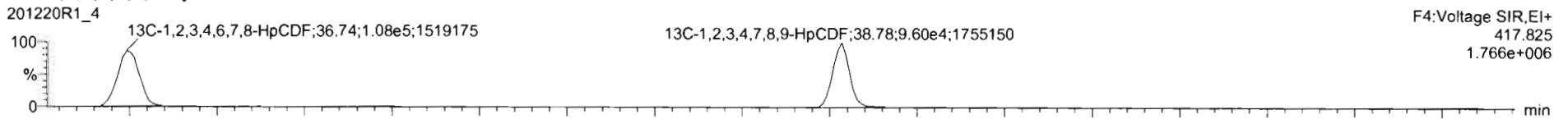
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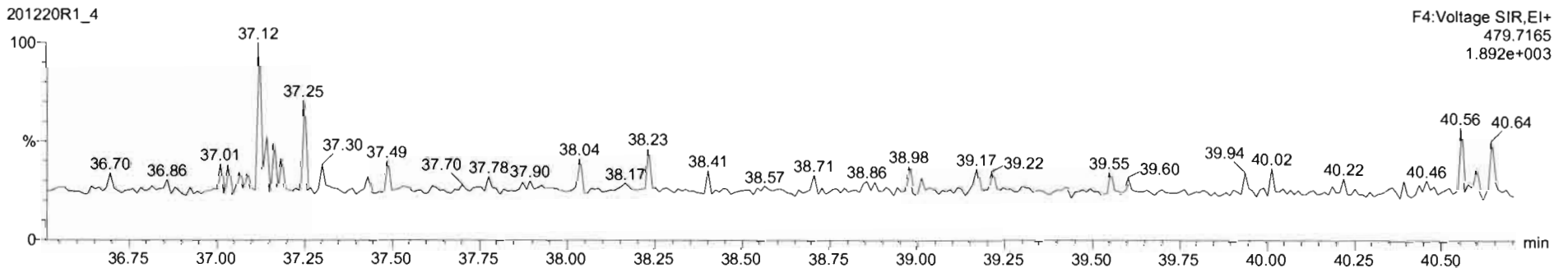
1,2,3,4,6,7,8-HpCDF

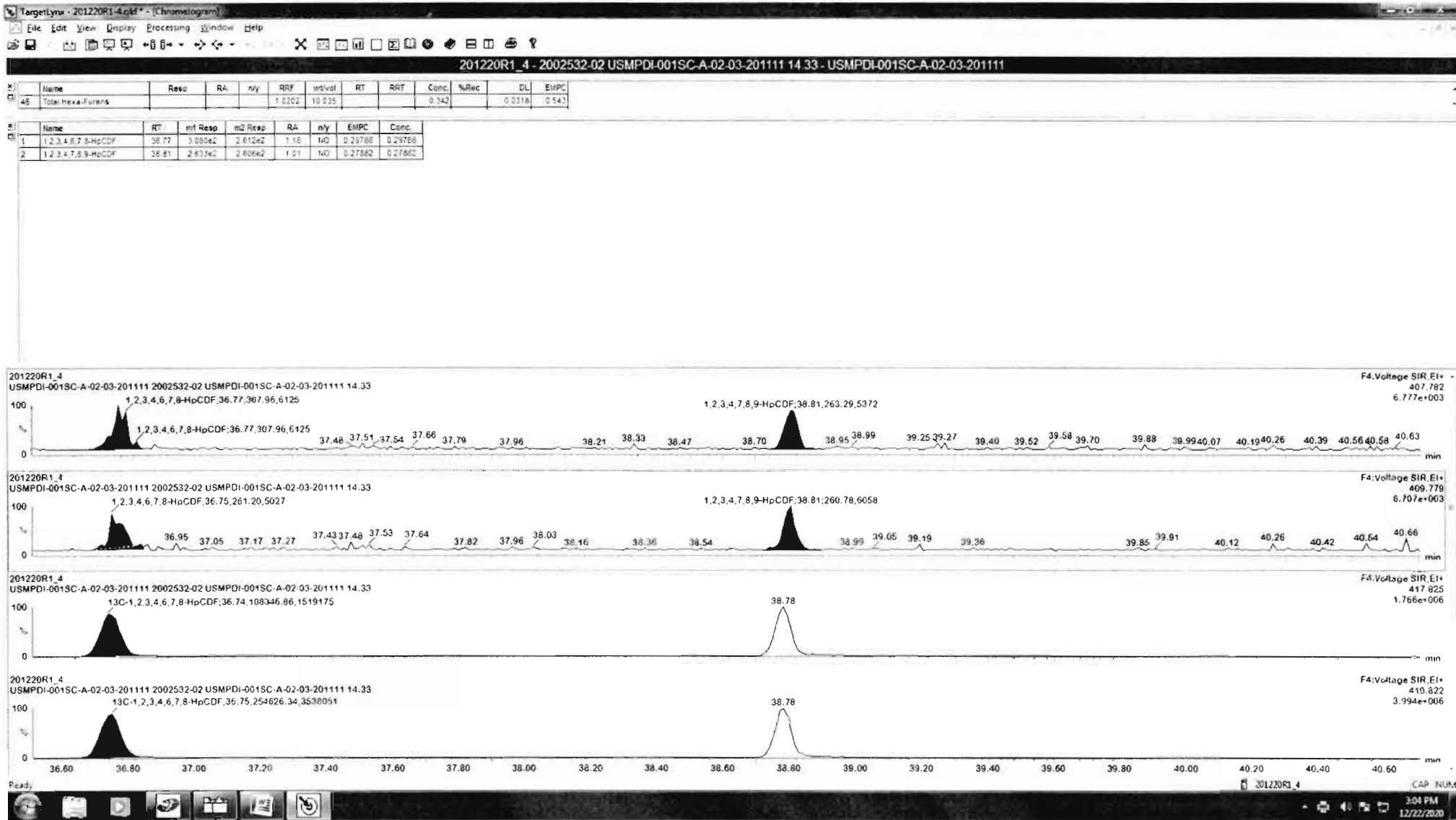


13C-1,2,3,4,6,7,8-HpCDF



DPE4



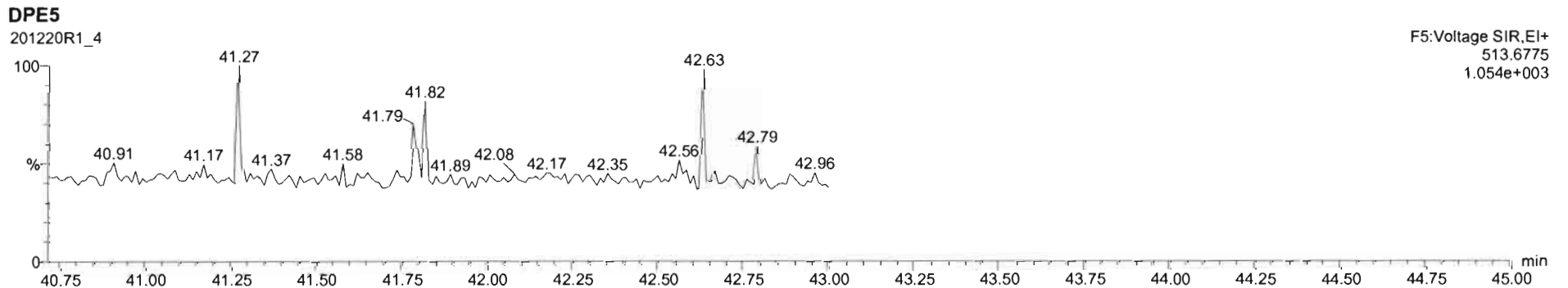
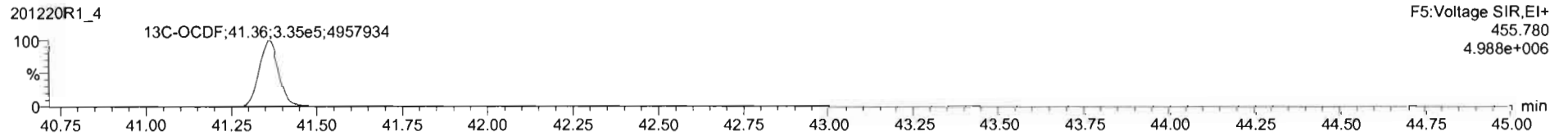
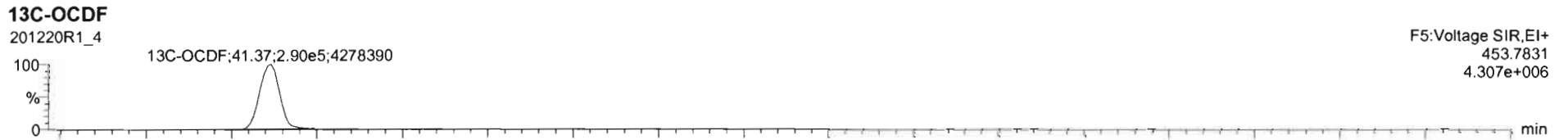
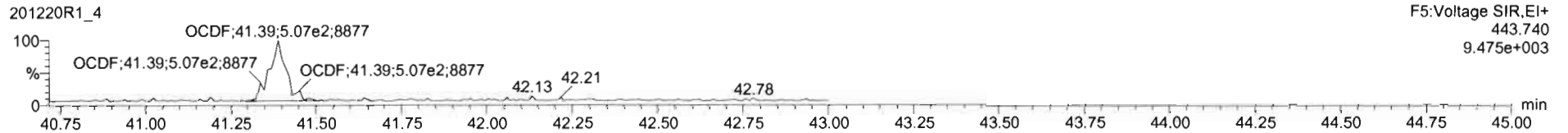
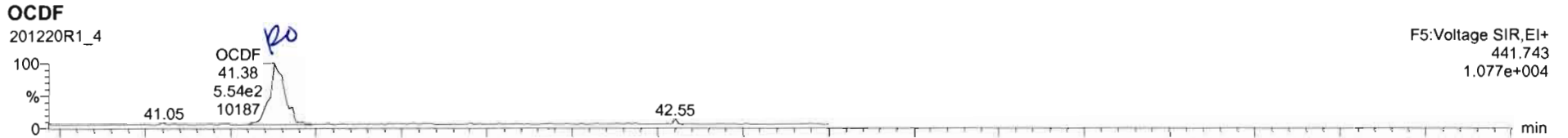


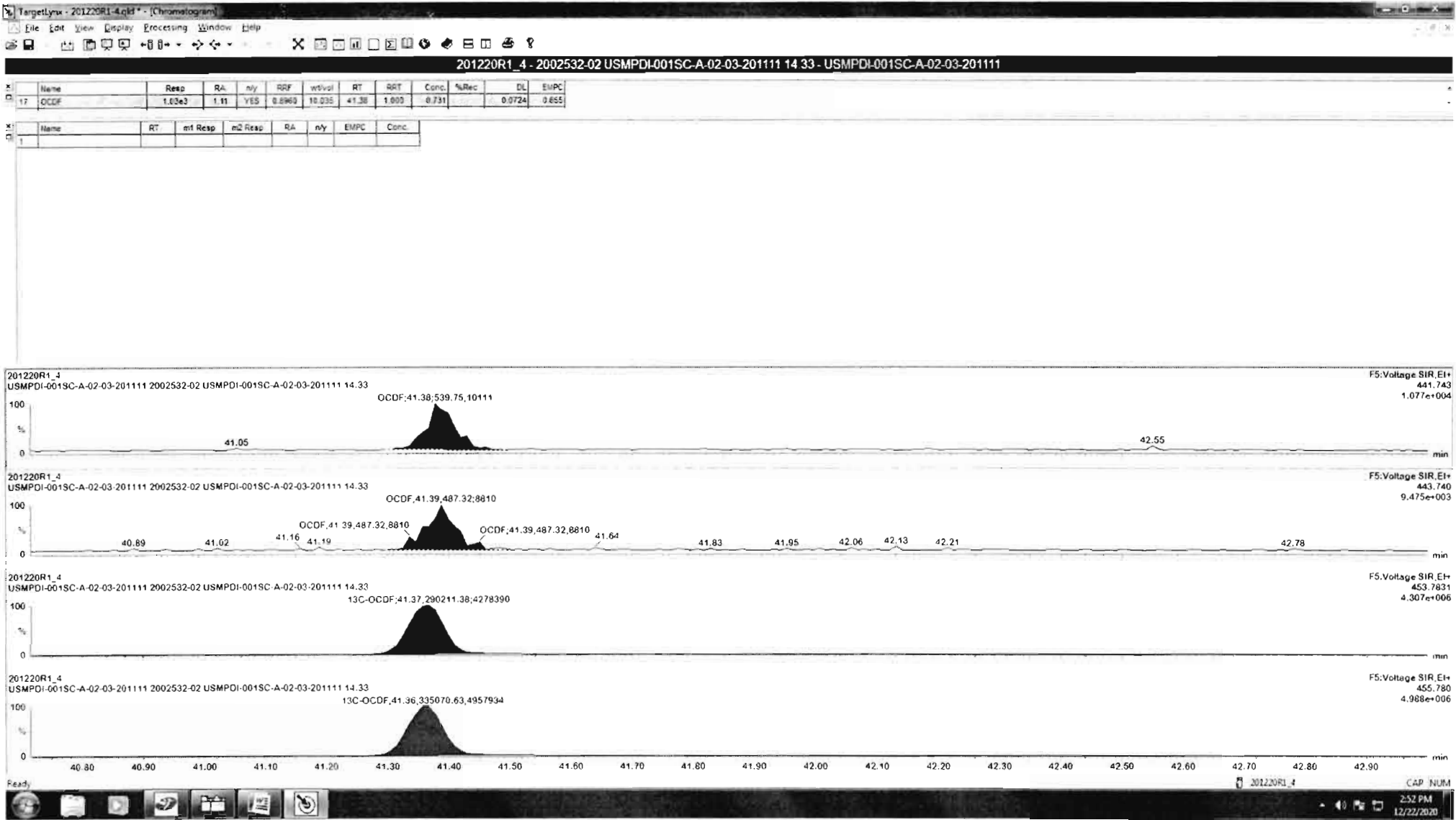
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Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

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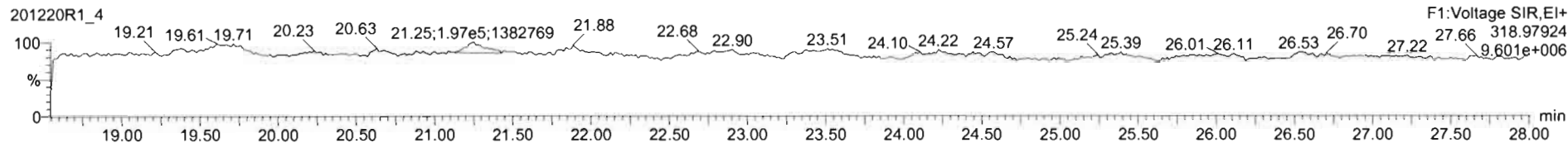


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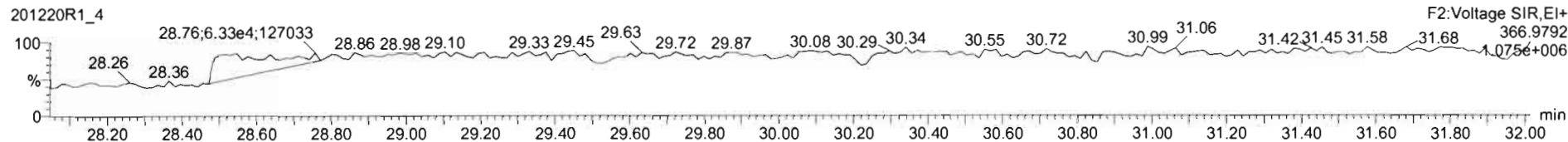
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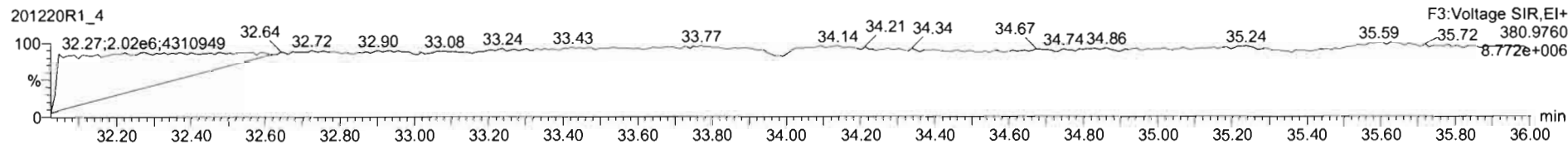
PFK1



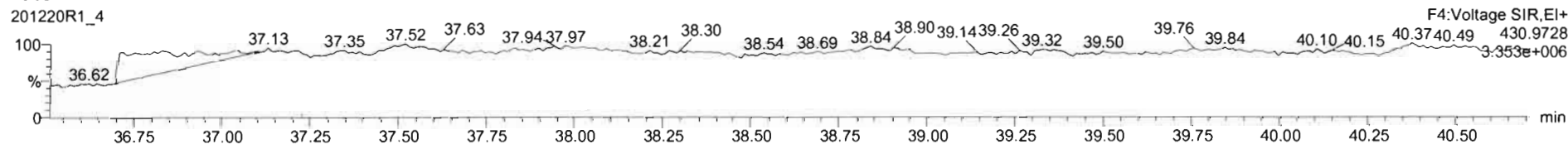
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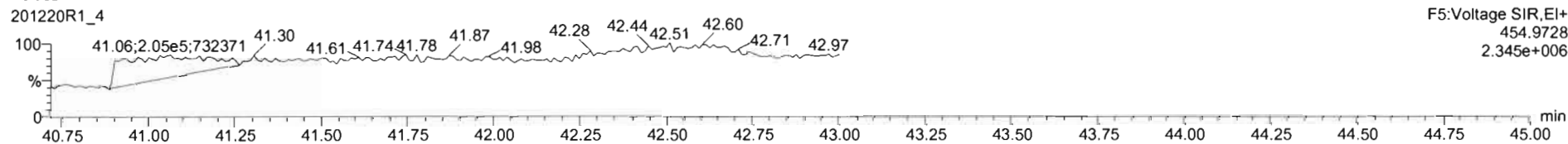
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\201220R1\201220R1-5.qld

Last Altered: Tuesday, December 22, 2020 3:12:59 PM Pacific Standard Time

Printed: Tuesday, December 22, 2020 3:13:12 PM Pacific Standard Time

GPB 12/22/2020

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

WLL 12/22/20

Name: 201220R1_5, Date: 20-Dec-2020, Time: 11:28:45, ID: 2002532-03 USMPDI-001SC-A-03-04-201111 13.56, Description: USMPDI-001SC-A-03-04-201111

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.980	10.180	26.337		1.001				0.0421	
2	2 1,2,3,7,8-PeCDD			NO	0.932	10.180	31.034		1.001				0.0690	
3	3 1,2,3,4,7,8-HxCDD			NO	1.02	10.180	34.326		1.001				0.0916	
4	4 1,2,3,6,7,8-HxCDD			NO	0.902	10.180	34.442		1.001				0.0933	
5	5 1,2,3,7,8,9-HxCDD			NO	0.954	10.180	34.703		1.000				0.0932	
6	6 1,2,3,4,6,7,8-HpCDD	1.85e3	0.96	NO	0.918	10.180	38.179	38.18	1.000	1.000	0.97195		0.111	0.972
7	7 OCDD	1.53e4	0.90	NO	0.866	10.180	41.113	41.12	1.000	1.000	12.040		0.138	12.0
8	8 2,3,7,8-TCDF			NO	0.848	10.180	25.613		1.000				0.0197	
9	9 1,2,3,7,8-PeCDF			NO	0.960	10.180	29.739		1.000				0.0415	
10	10 2,3,4,7,8-PeCDF			NO	1.07	10.180	30.829		1.001				0.0342	
11	11 1,2,3,4,7,8-HxCDF			NO	0.986	10.180	33.415		1.000				0.0463	
12	12 1,2,3,6,7,8-HxCDF			NO	1.04	10.180	33.551		1.001				0.0479	
13	13 2,3,4,6,7,8-HxCDF			NO	1.02	10.180	34.211		1.001				0.0483	
14	14 1,2,3,7,8,9-HxCDF	5.73e1	0.85	YES	0.991	10.180	35.185	35.18	1.000	1.000	0.021938		0.0328	0.0182
15	15 1,2,3,4,6,7,8-HpCDF			NO	1.05	10.180	36.781		1.000				0.0681	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.18	10.180	38.796		1.000				0.0547	
17	17 OCDF	1.73e2	0.81	NO	0.896	10.180	41.406	41.42	1.000	1.001	0.11912		0.0858	0.119
18	18 13C-2,3,7,8-TCDD	7.90e5	0.78	NO	1.06	10.180	26.307	26.31	1.030	1.030	193.72	98.6	0.159	
19	19 13C-1,2,3,7,8-PeCDD	6.64e5	0.63	NO	0.785	10.180	31.139	31.00	1.219	1.214	218.88	111	0.344	
20	20 13C-1,2,3,4,7,8-HxCDD	4.56e5	1.32	NO	0.621	10.180	34.305	34.31	1.014	1.014	208.16	106	0.433	
21	21 13C-1,2,3,6,7,8-HxCDD	5.03e5	1.28	NO	0.734	10.180	34.427	34.42	1.017	1.017	194.27	98.9	0.366	
22	22 13C-1,2,3,7,8,9-HxCDD	4.93e5	1.24	NO	0.723	10.180	34.711	34.69	1.026	1.025	193.29	98.4	0.372	
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.08e5	1.04	NO	0.568	10.180	38.208	38.17	1.129	1.128	203.40	104	0.985	
24	24 13C-OCDD	5.77e5	0.85	NO	0.496	10.180	41.142	41.10	1.216	1.215	329.77	83.9	0.786	
25	25 13C-2,3,7,8-TCDF	1.04e6	0.76	NO	0.919	10.180	25.608	25.61	1.003	1.003	193.76	98.6	0.272	
26	26 13C-1,2,3,7,8-PeCDF	9.00e5	1.60	NO	0.715	10.180	29.852	29.74	1.169	1.164	215.78	110	0.394	
27	27 13C-2,3,4,7,8-PeCDF	8.91e5	1.59	NO	0.689	10.180	30.937	30.81	1.212	1.206	221.86	113	0.410	
28	28 13C-1,2,3,4,7,8-HxCDF	5.61e5	0.53	NO	0.873	10.180	33.412	33.40	0.987	0.987	182.02	92.6	0.429	
29	29 13C-1,2,3,6,7,8-HxCDF	5.38e5	0.53	NO	0.933	10.180	33.540	33.53	0.991	0.991	163.31	83.1	0.402	
30	30 13C-2,3,4,6,7,8-HxCDF	5.45e5	0.50	NO	0.843	10.180	34.207	34.19	1.011	1.010	183.23	93.3	0.445	
31	31 13C-1,2,3,7,8,9-HxCDF	5.18e5	0.50	NO	0.780	10.180	35.206	35.19	1.040	1.040	188.11	95.7	0.481	

Dataset: U:\VG12.PRO\Results\201220R1\201220R1-5.qld

Last Altered: Tuesday, December 22, 2020 3:12:59 PM Pacific Standard Time
Printed: Tuesday, December 22, 2020 3:13:12 PM Pacific Standard Time

Name: 201220R1_5, Date: 20-Dec-2020, Time: 11:28:45, ID: 2002532-03 USMPDI-001SC-A-03-04-201111 13.56, Description: USMPDI-001SC-A-03-04-201111

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.80e5	0.43	NO	0.726	10.180	36.779	36.76	1.087	1.086	148.32	75.5	0.546	
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.43e5	0.43	NO	0.491	10.180	38.786	38.78	1.146	1.146	198.02	101	0.807	
34	34 13C-OCDF	6.36e5	0.86	NO	0.565	10.180	41.359	41.40	1.222	1.223	318.68	81.1	0.582	
35	35 37Cl-2,3,7,8-TCDD	3.73e5			1.22	10.180	26.302	26.32	1.030	1.031	79.359	101	0.0342	
36	36 13C-1,2,3,4-TCDD	7.59e5	0.80	NO	1.00	10.180	25.640	25.54	1.000	1.000	196.46	100	0.168	
37	37 13C-1,2,3,4-TCDF	1.15e6	0.78	NO	1.00	10.180	24.130	24.03	1.000	1.000	196.46	100	0.250	
38	38 13C-1,2,3,4,6,9-HxCDF	6.94e5	0.51	NO	1.00	10.180	33.920	33.85	1.000	1.000	196.46	100	0.375	
39	39 Total Tetra-Dioxins				0.980	10.180	24.620		0.000		0.20701		0.0421	0.207
40	40 Total Penta-Dioxins				0.932	10.180	29.960		0.000		0.00000		0.0269	0.119
41	41 Total Hexa-Dioxins				0.902	10.180	33.635		0.000		1.3797		0.0983	1.38
42	42 Total Hepta-Dioxins				0.918	10.180	37.640		0.000		2.6457		0.111	2.65
43	43 Total Tetra-Furans				0.848	10.180	23.610		0.000				0.00876	
44	44 1st Func. Penta-Furans				0.960	10.180	26.930		0.000				0.00898	
45	45 Total Penta-Furans				0.960	10.180	29.275		0.000				0.0216	
46	46 Total Hexa-Furans				1.02	10.180	33.555		0.000		0.045707		0.0284	0.119
47	47 Total Hepta-Furans				1.05	10.180	37.835		0.000				0.0277	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201220R1\201220R1-5.qld

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Printed: Tuesday, December 22, 2020 3:13:12 PM 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: 201220R1_5, Date: 20-Dec-2020, Time: 11:28:45, ID: 2002532-03 USMPDI-001SC-A-03-04-201111 13.56, Description: USMPDI-001SC-A-03-04-201111

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	24.22	4.216e3	6.736e3	3.321e2	4.841e2	0.69	NO	8.162e2	0.20701	0.20701	0.0421

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	30.25	4.475e3	3.865e3	1.934e2	2.308e2	0.84	YES	0.000e0	0.00000	0.11949	0.0690

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.69	2.045e4	1.749e4	1.043e3	7.937e2	1.31	NO	1.836e3	0.82559	0.82559	0.0983
2	Total Hexa-Dioxins	33.30	1.379e3	1.525e3	6.292e1	4.904e1	1.28	NO	1.120e2	0.050338	0.050338	0.0983
3	Total Hexa-Dioxins	33.56	9.485e3	7.567e3	6.450e2	4.756e2	1.36	NO	1.121e3	0.50381	0.50381	0.0983

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.16	2.709e4	2.161e4	1.681e3	1.507e3	1.12	NO	3.189e3	1.6738	1.6738	0.111
2	1,2,3,4,6,7,8-HpCDD	38.18	1.751e4	1.506e4	9.093e2	9.423e2	0.96	NO	1.852e3	0.97195	0.97195	0.111

Tetra-Furans

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

Penta-Furans function 1

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

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201220R1\201220R1-5.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												

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.95	1.942e3	3.396e3	8.608e1	1.179e2	0.73	YES	0.000e0	0.00000	0.055383	0.0284
2	1,2,3,7,8,9-HxCDF	35.18	8.060e2	9.010e2	2.627e1	3.104e1	0.85	YES	5.731e1	0.00000	0.018166	0.0328
3	Total Hexa-Furans	35.21	1.969e3	1.630e3	7.211e1	5.621e1	1.28	NO	1.283e2	0.045707	0.045707	0.0284

Hepta-Furans

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

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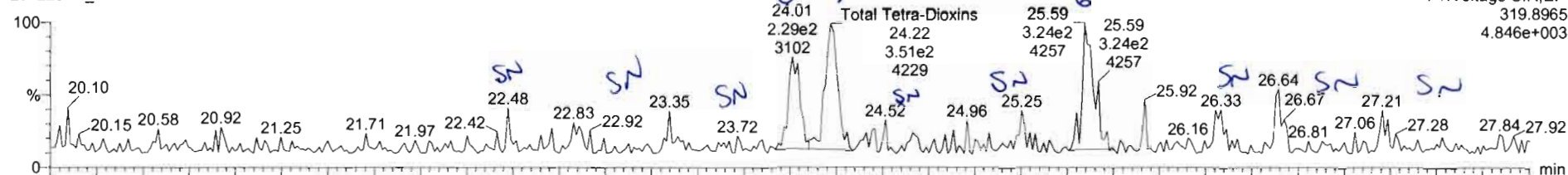
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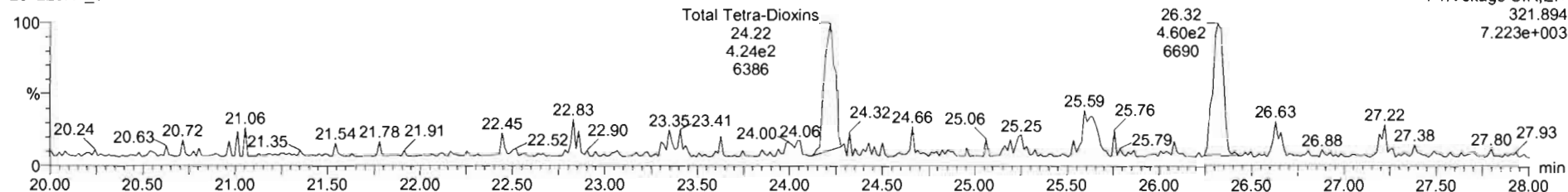
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2,3,7,8-TCDD

201220R1_5

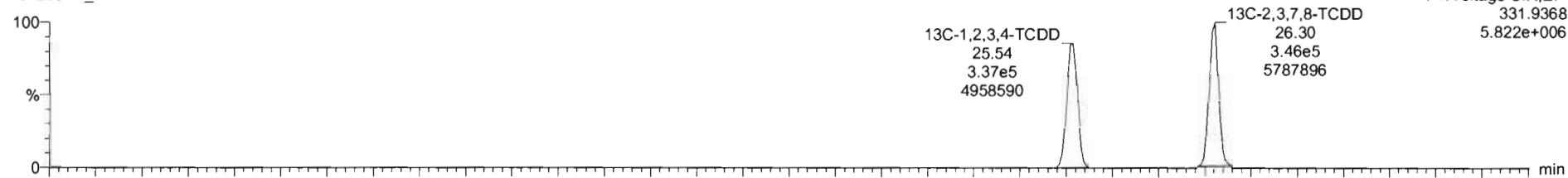


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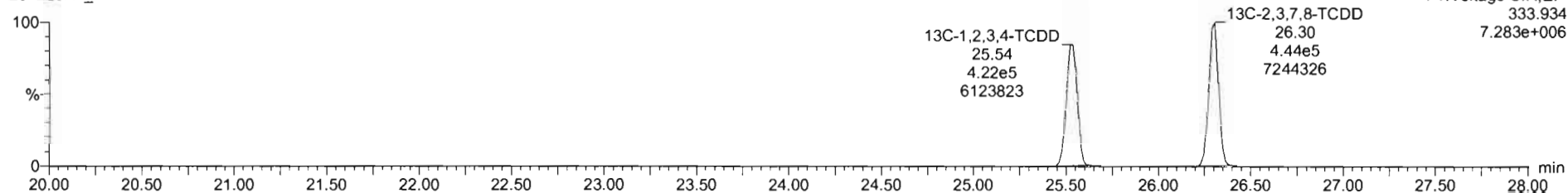


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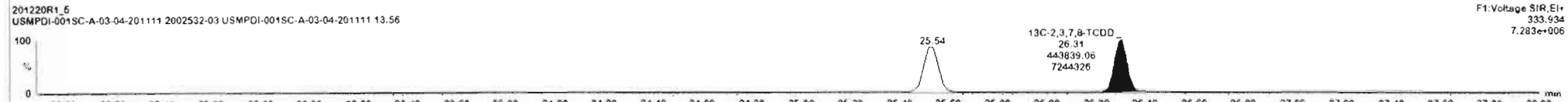
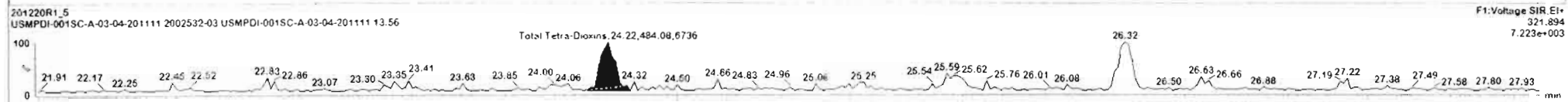
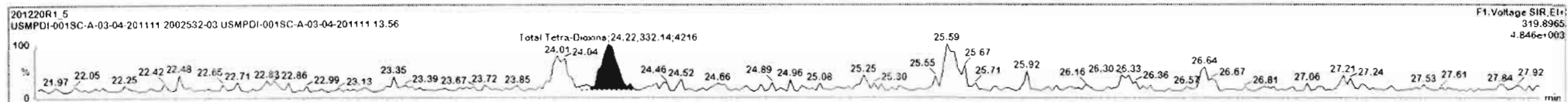


201220R1_5



Name	Resp	RA	n/y	RRF	ret/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins			0.9895	10.180			0.207		0.0421	0.207

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Tetra-Dioxins	24.22	4.64162	0.69	NO	0.20701	0.20701



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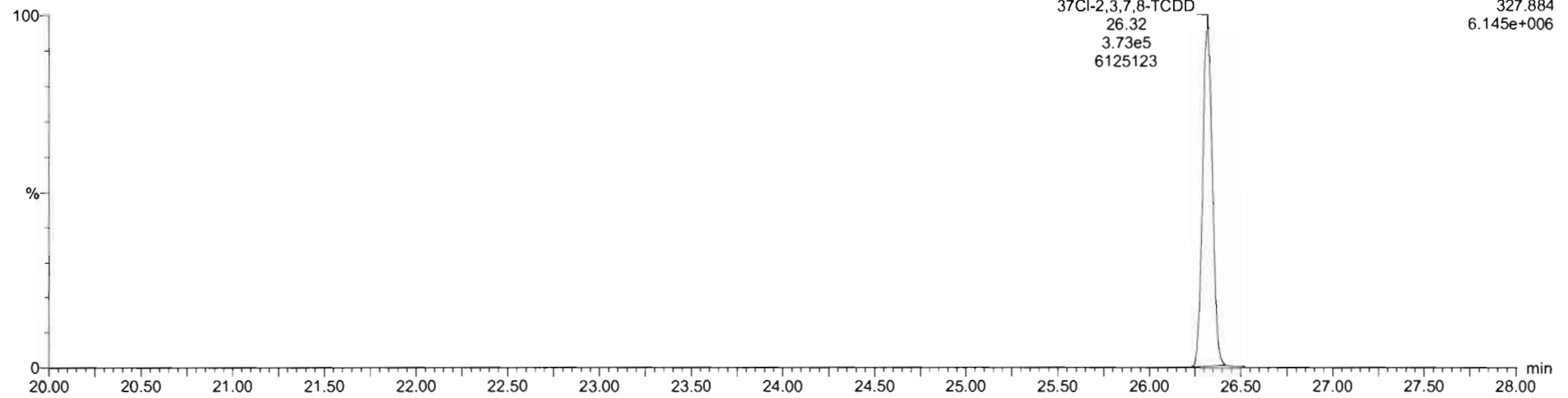
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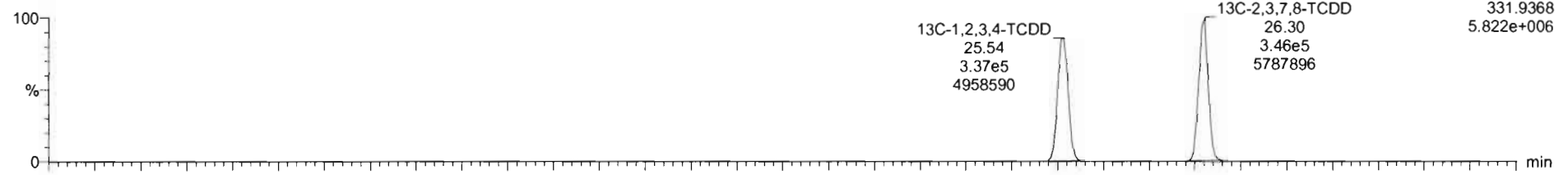
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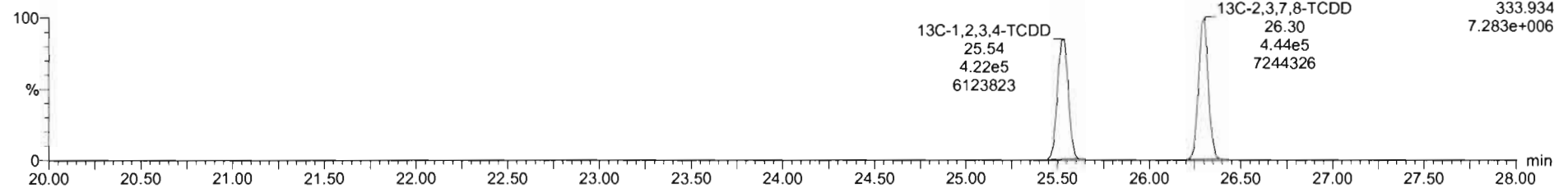


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201220R1_5



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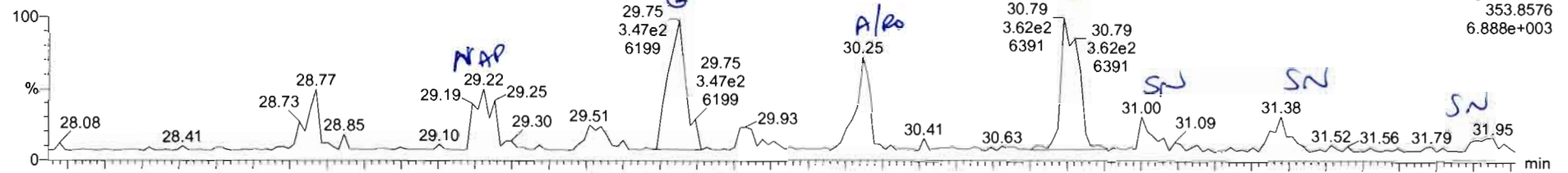
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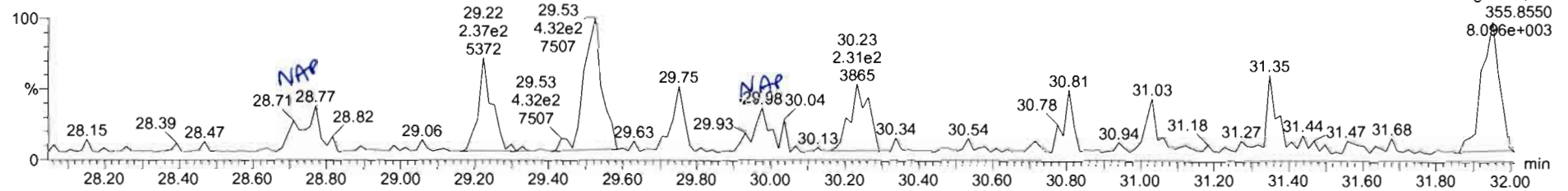
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1,2,3,7,8-PeCDD

201220R1_5

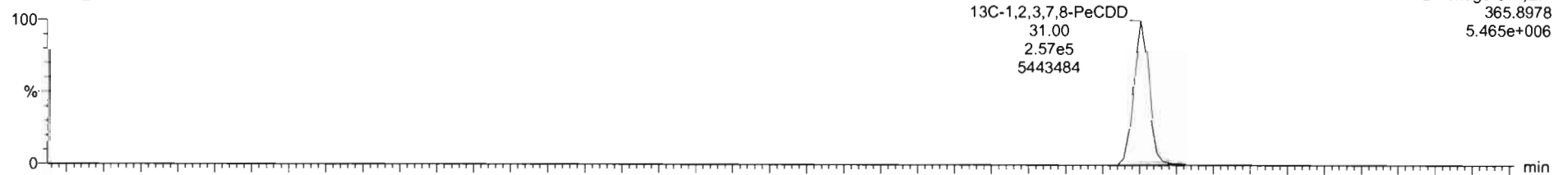


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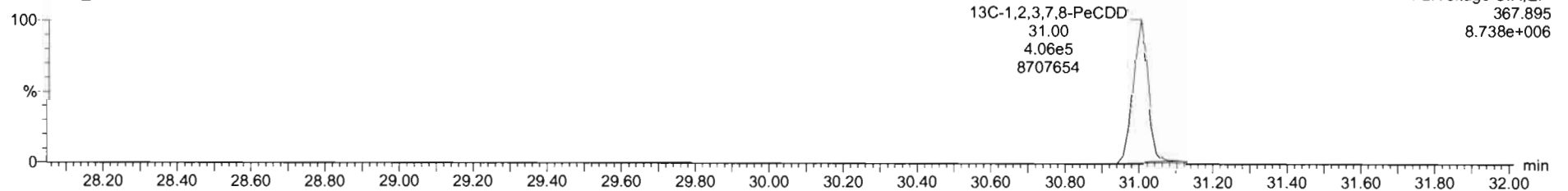


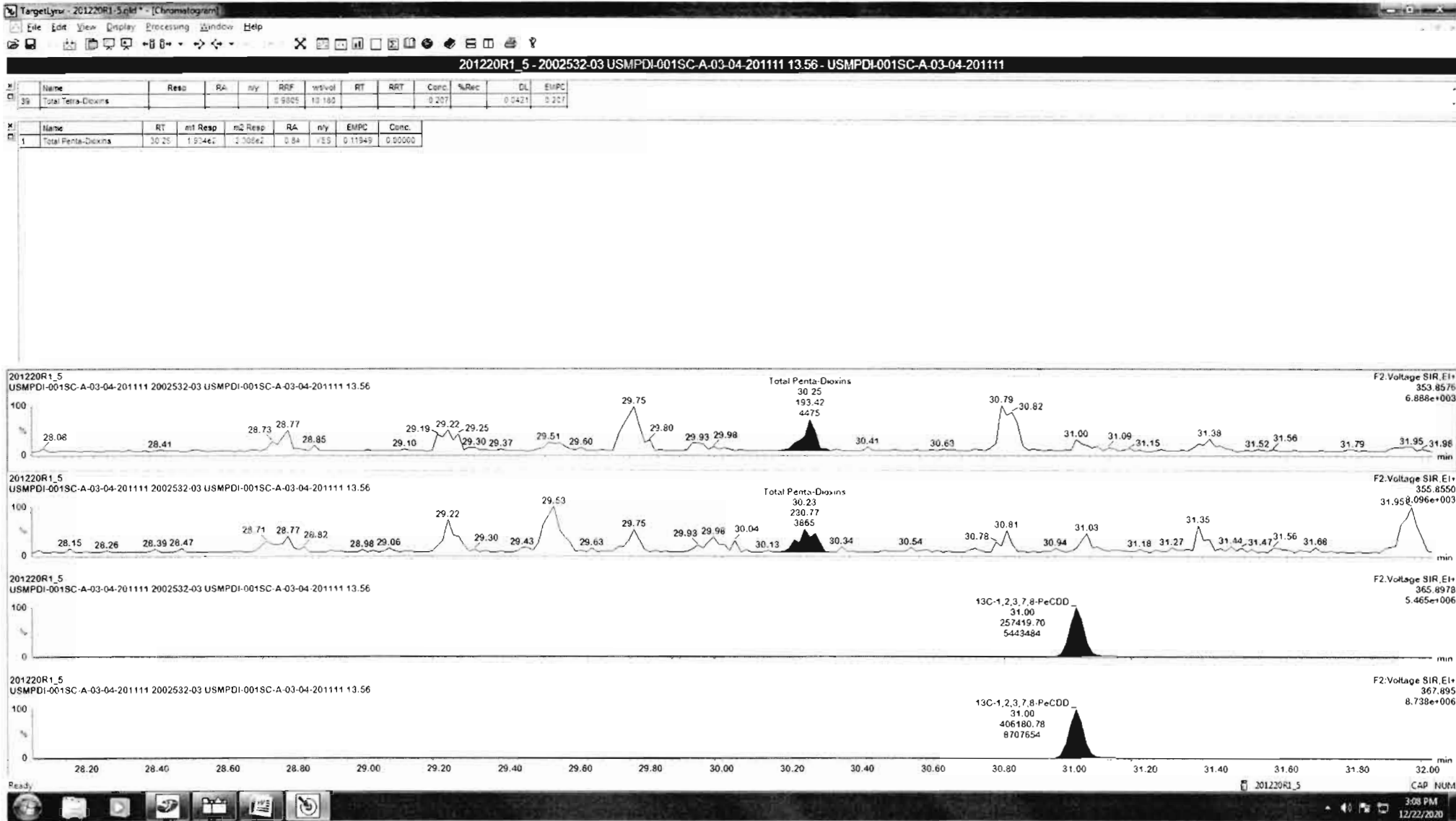
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201220R1_5





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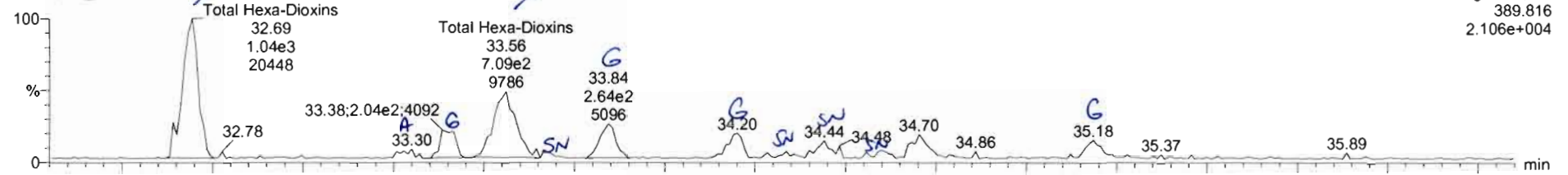
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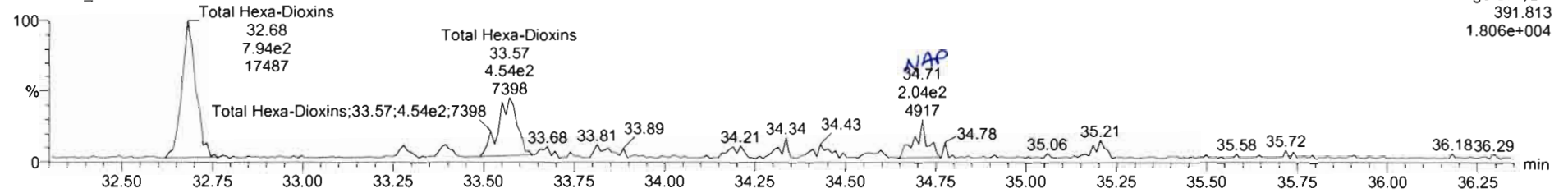
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1,2,3,4,7,8-HxCDD

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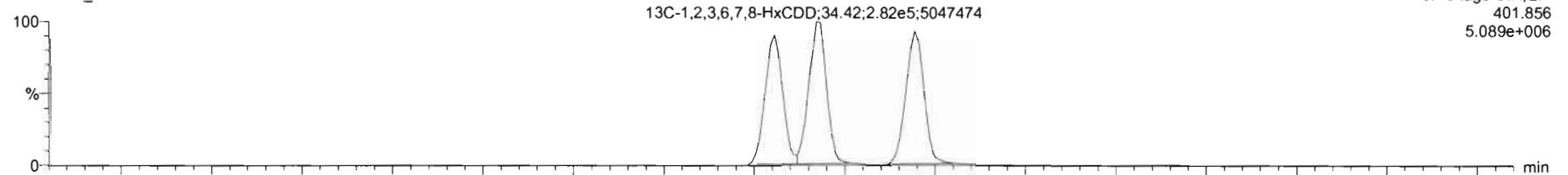


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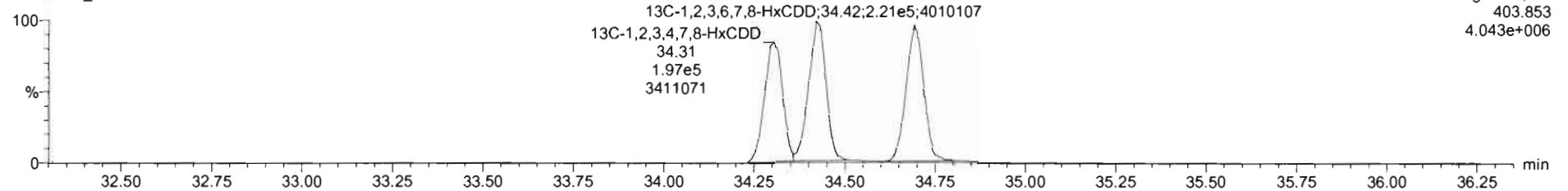


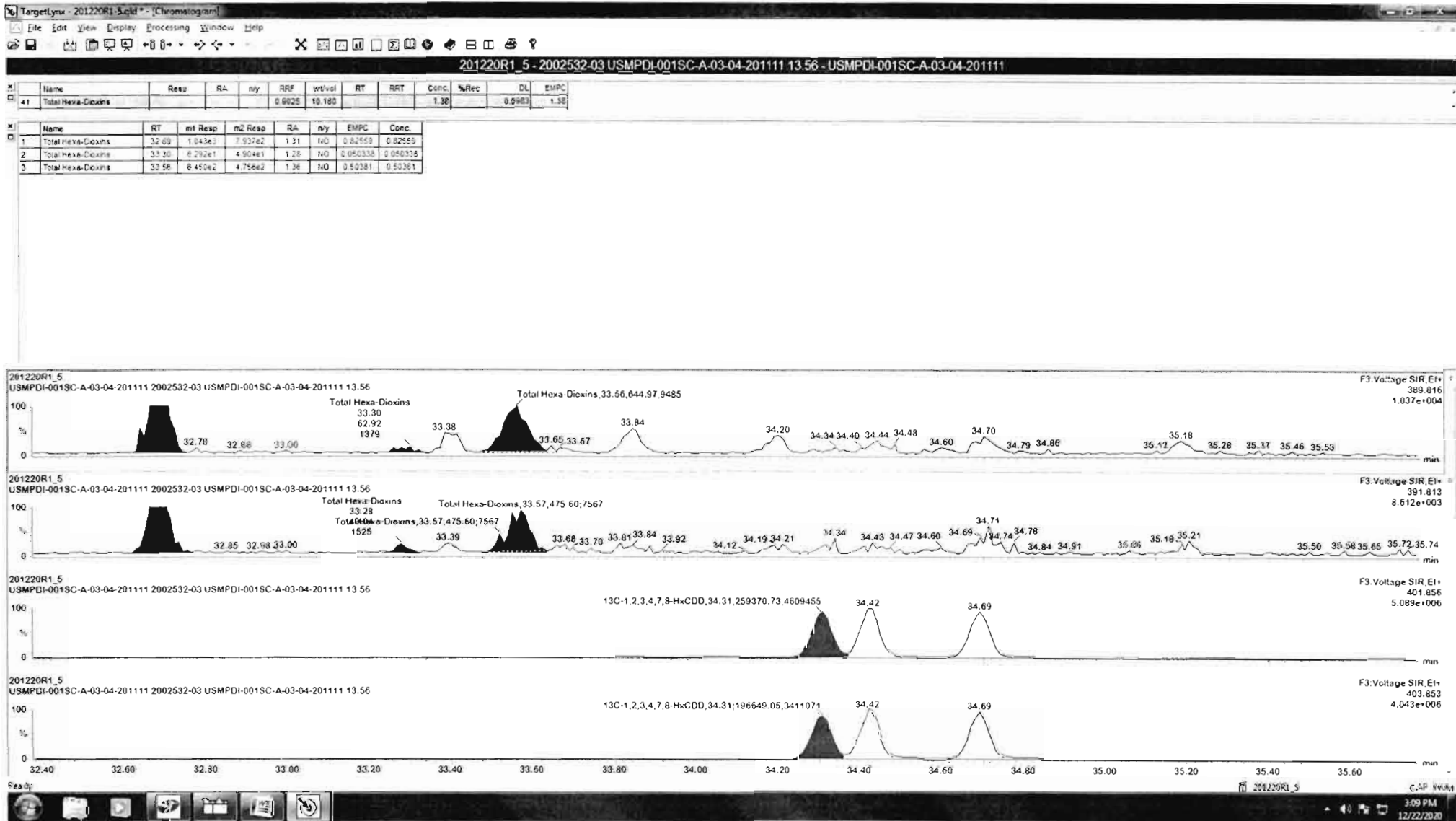
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201220R1_5



201220R1_5



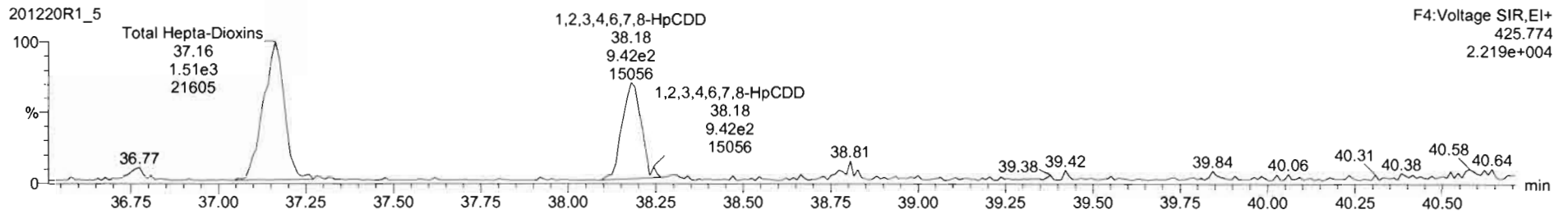
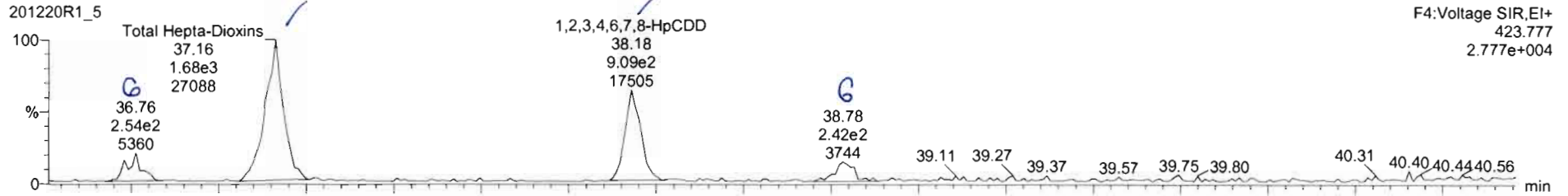


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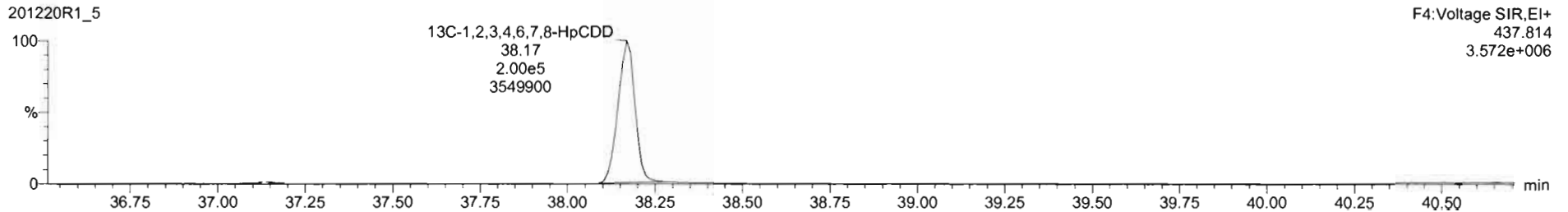
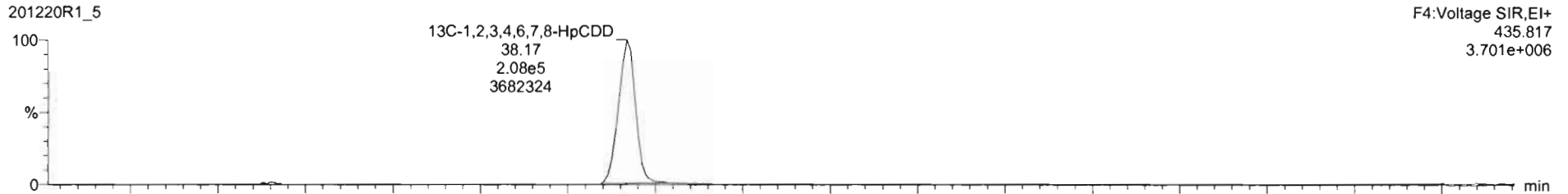
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1,2,3,4,6,7,8-HpCDD



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



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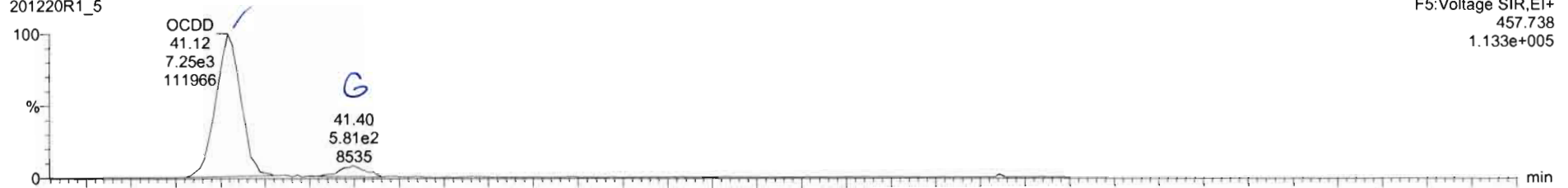
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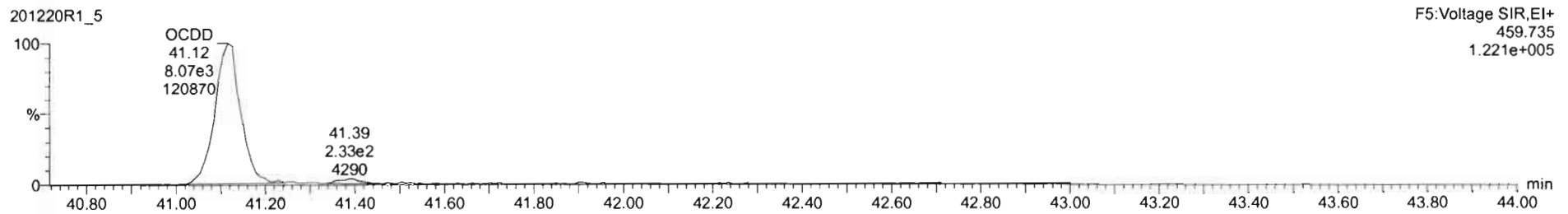
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OCDD

201220R1_5

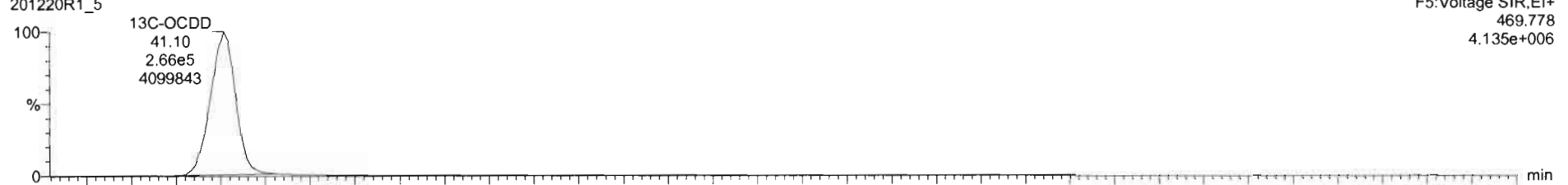


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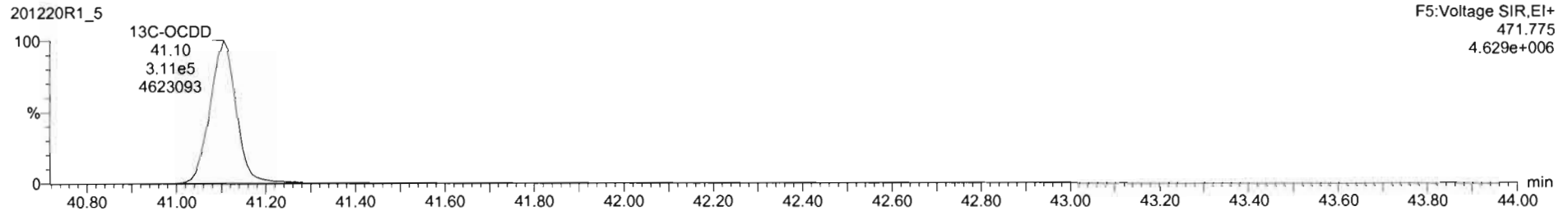


13C-OCDD

201220R1_5



201220R1_5



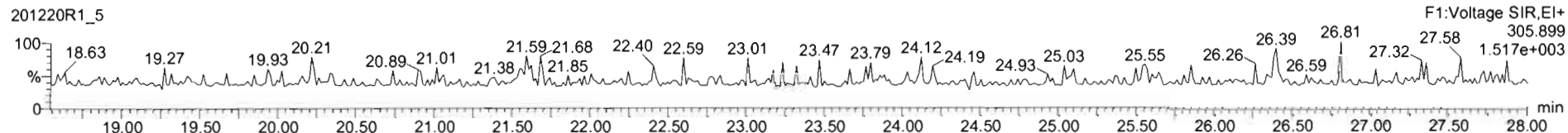
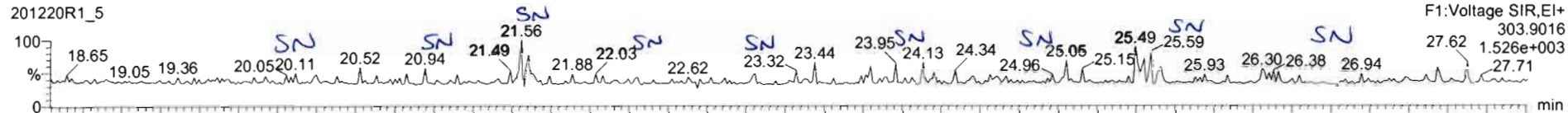
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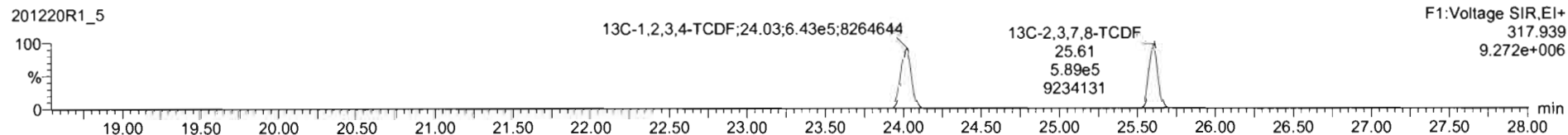
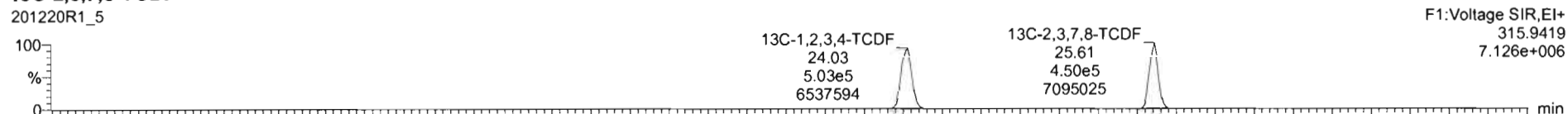
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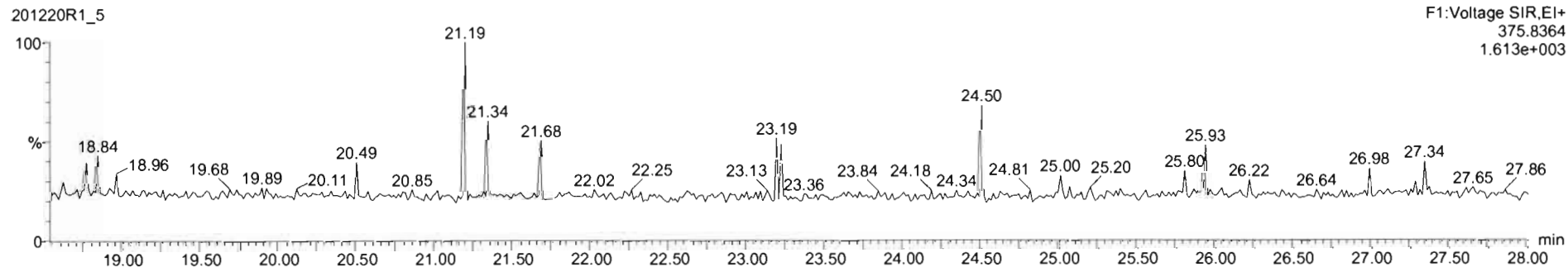
2,3,7,8-TCDF



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



DPE1



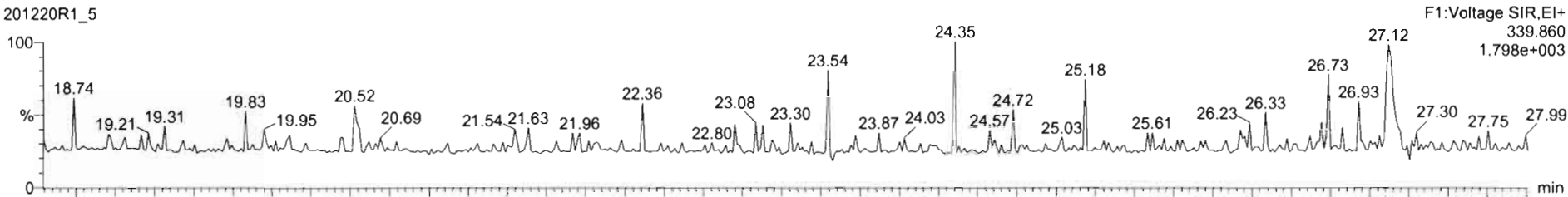
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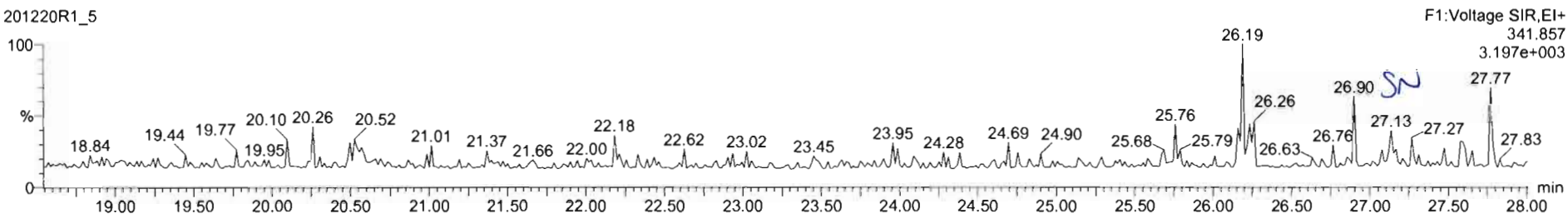
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1st Func. Penta-Furans

201220R1_5

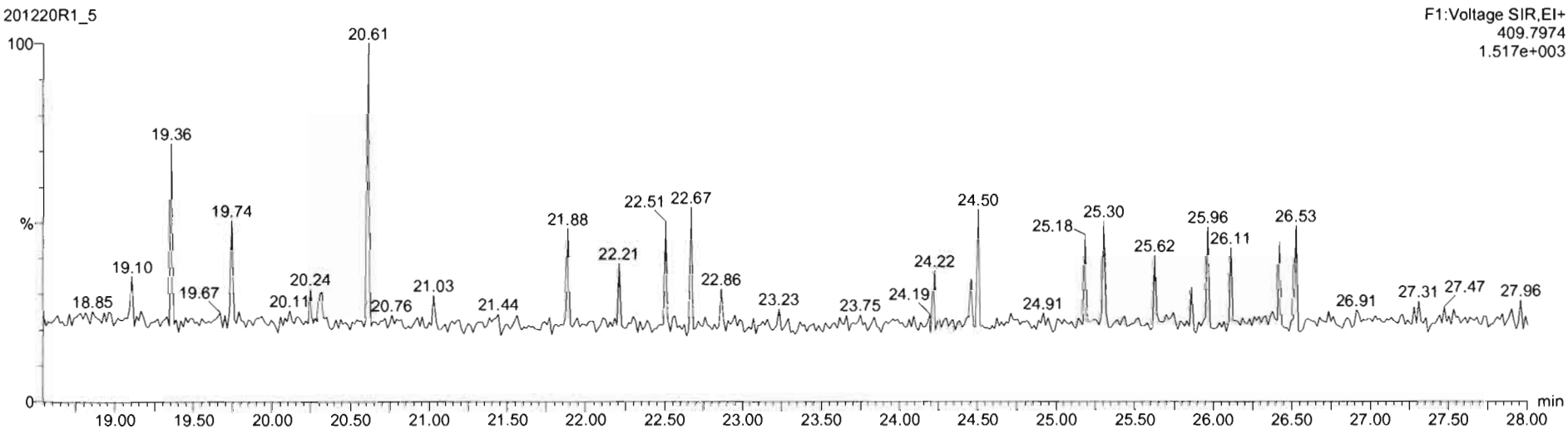


201220R1_5



DPE6

201220R1_5



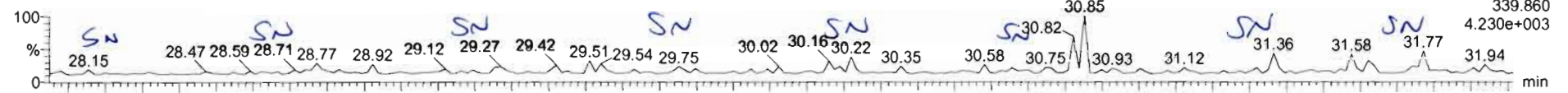
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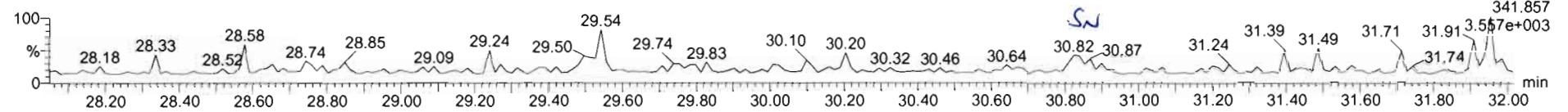
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1,2,3,7,8-PeCDF

201220R1_5

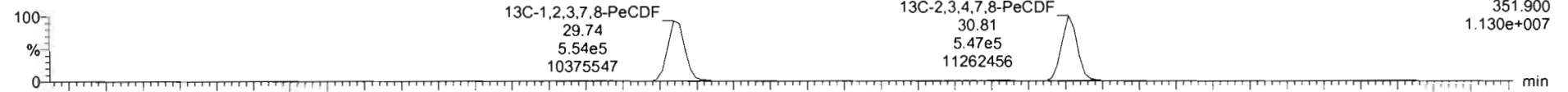


201220R1_5

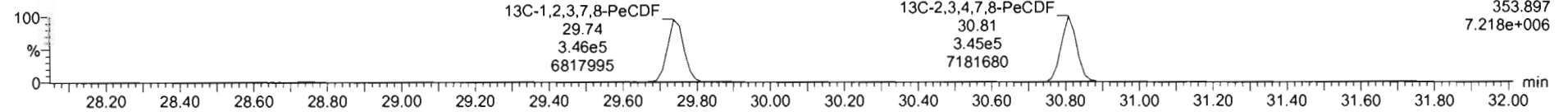


13C-1,2,3,7,8-PeCDF

201220R1_5

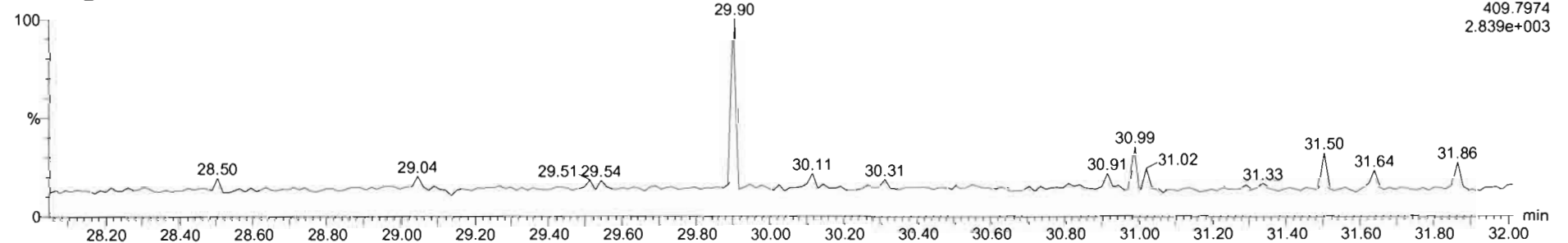


201220R1_5



DPE2

201220R1_5



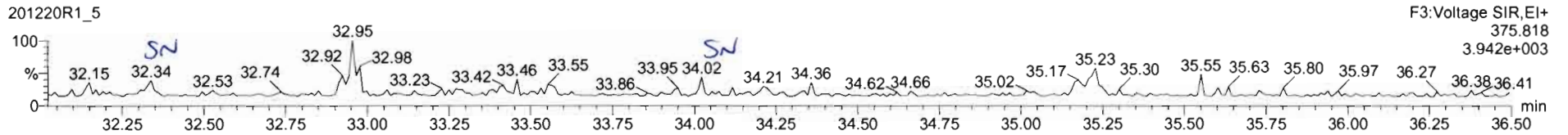
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Last Altered: Monday, December 21, 2020 06:50:00 Pacific Standard Time

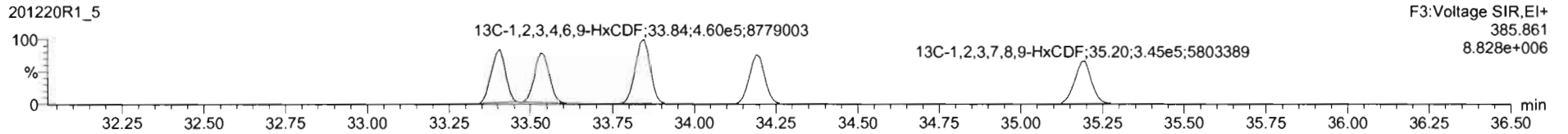
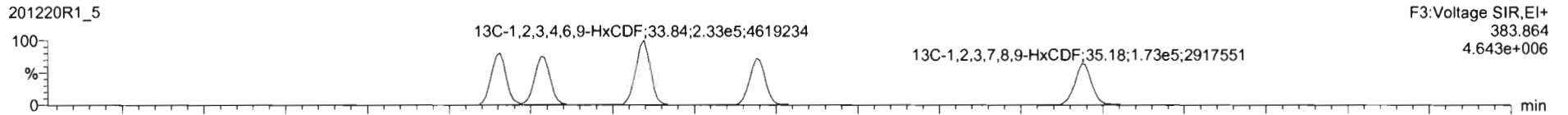
Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

Name: 201220R1_5, Date: 20-Dec-2020, Time: 11:28:45, ID: 2002532-03 USMPDI-001SC-A-03-04-201111 13.56, Description: USMPDI-001SC-A-03-04-201111

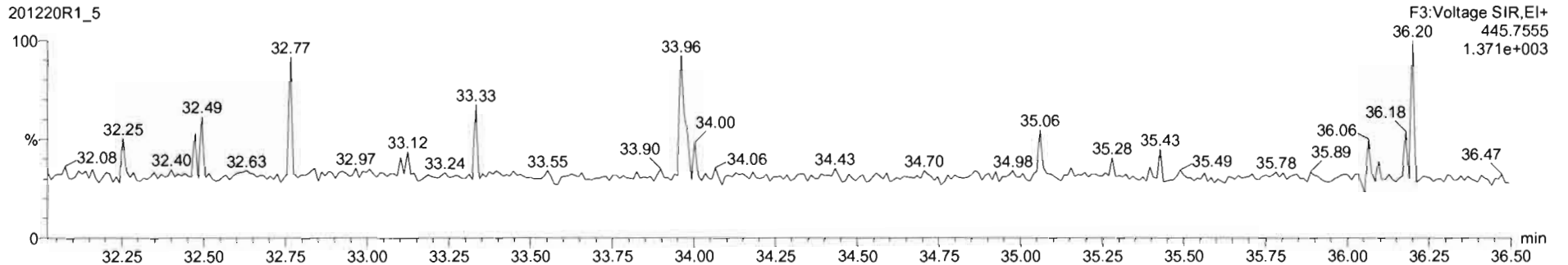
1,2,3,4,7,8-HxCDF

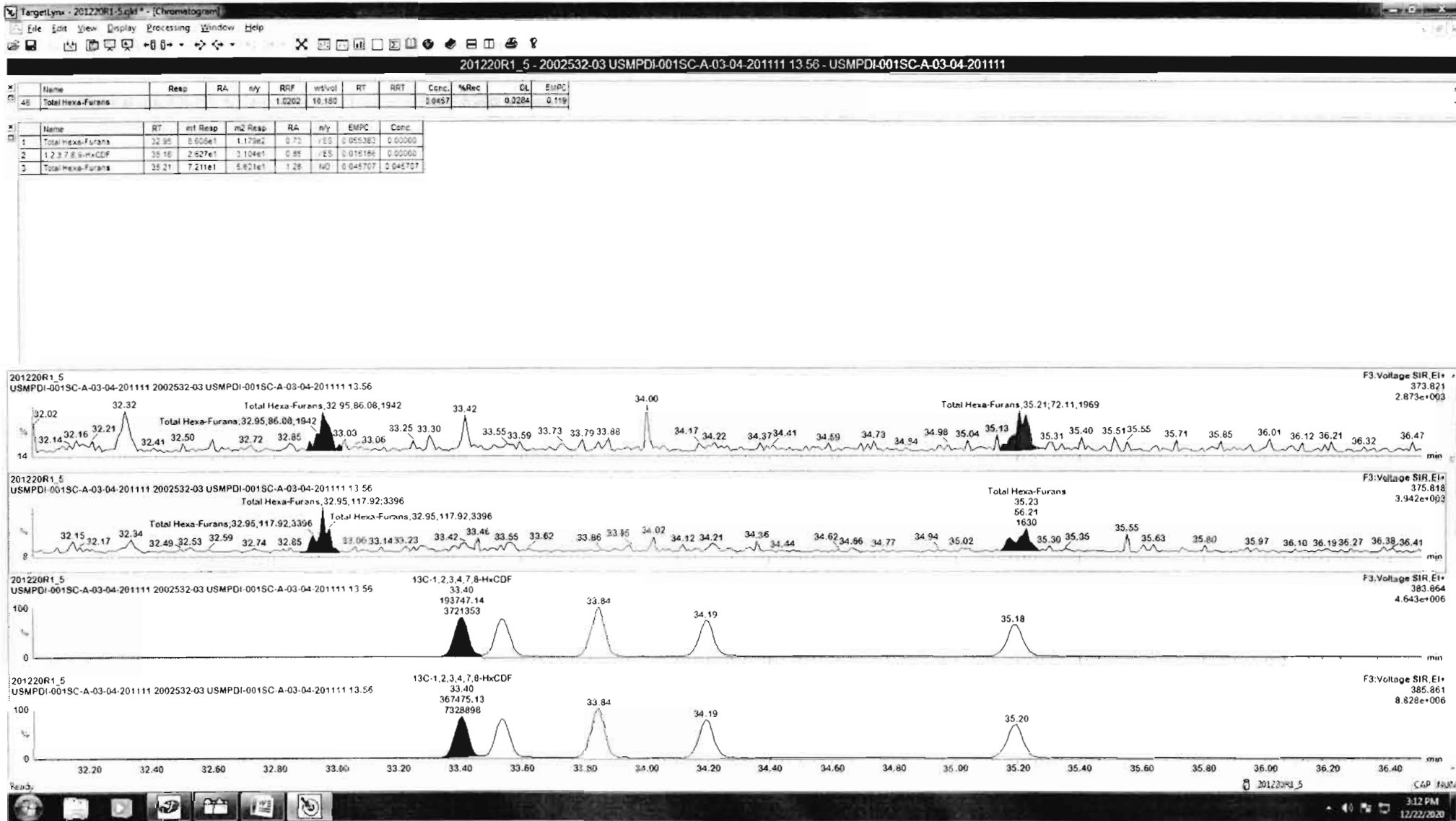


13C-1,2,3,4,7,8-HxCDF



DPE3



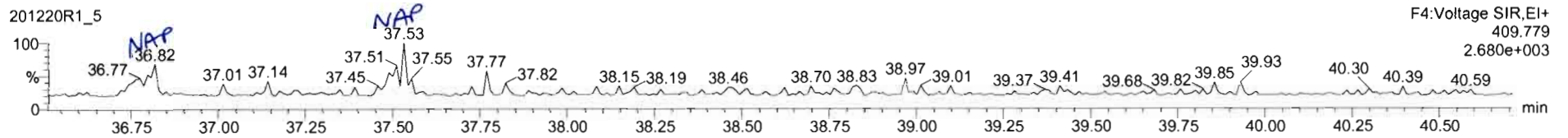
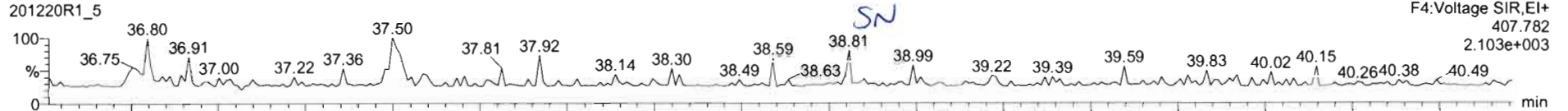


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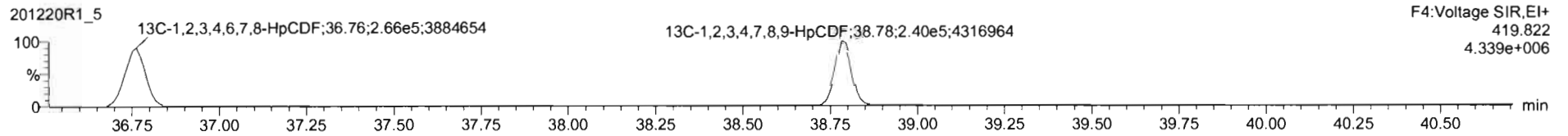
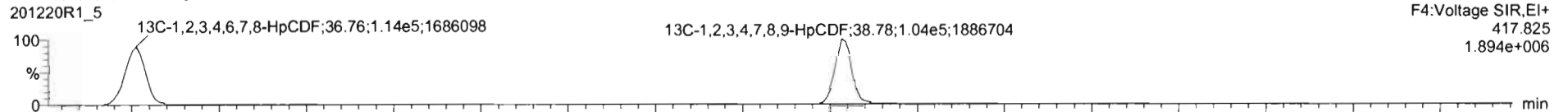
Last Altered: Monday, December 21, 2020 06:50:00 Pacific Standard Time
Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

Name: 201220R1_5, Date: 20-Dec-2020, Time: 11:28:45, ID: 2002532-03 USMPDI-001SC-A-03-04-201111 13.56, Description: USMPDI-001SC-A-03-04-201111

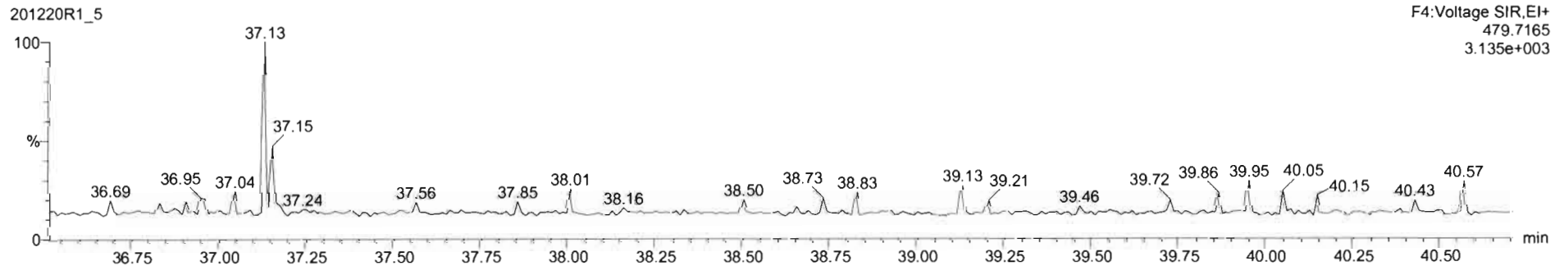
1,2,3,4,6,7,8-HpCDF



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



DPE4

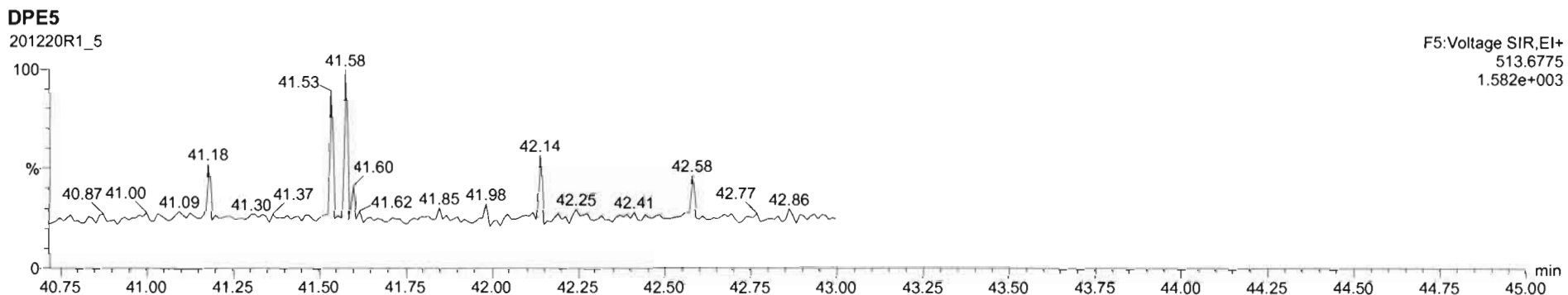
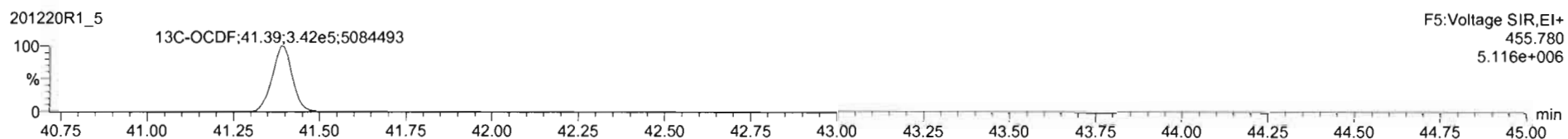
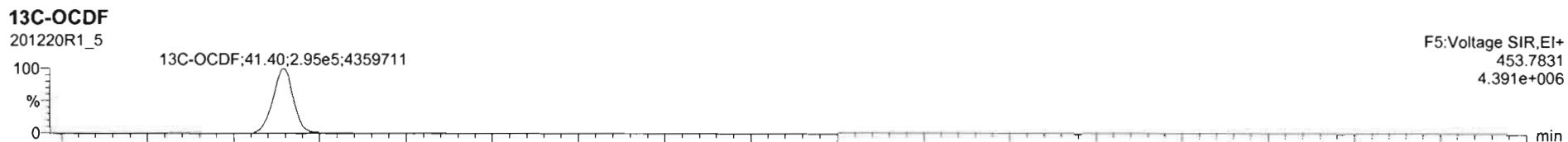
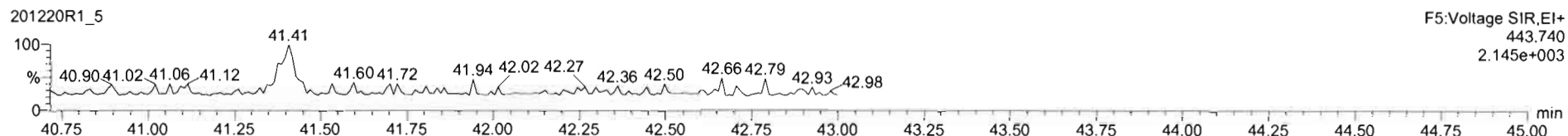
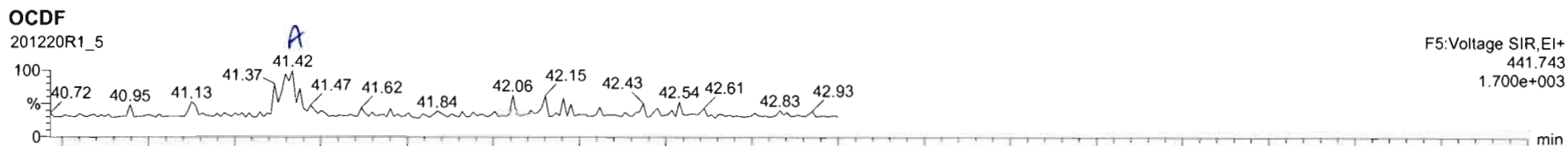


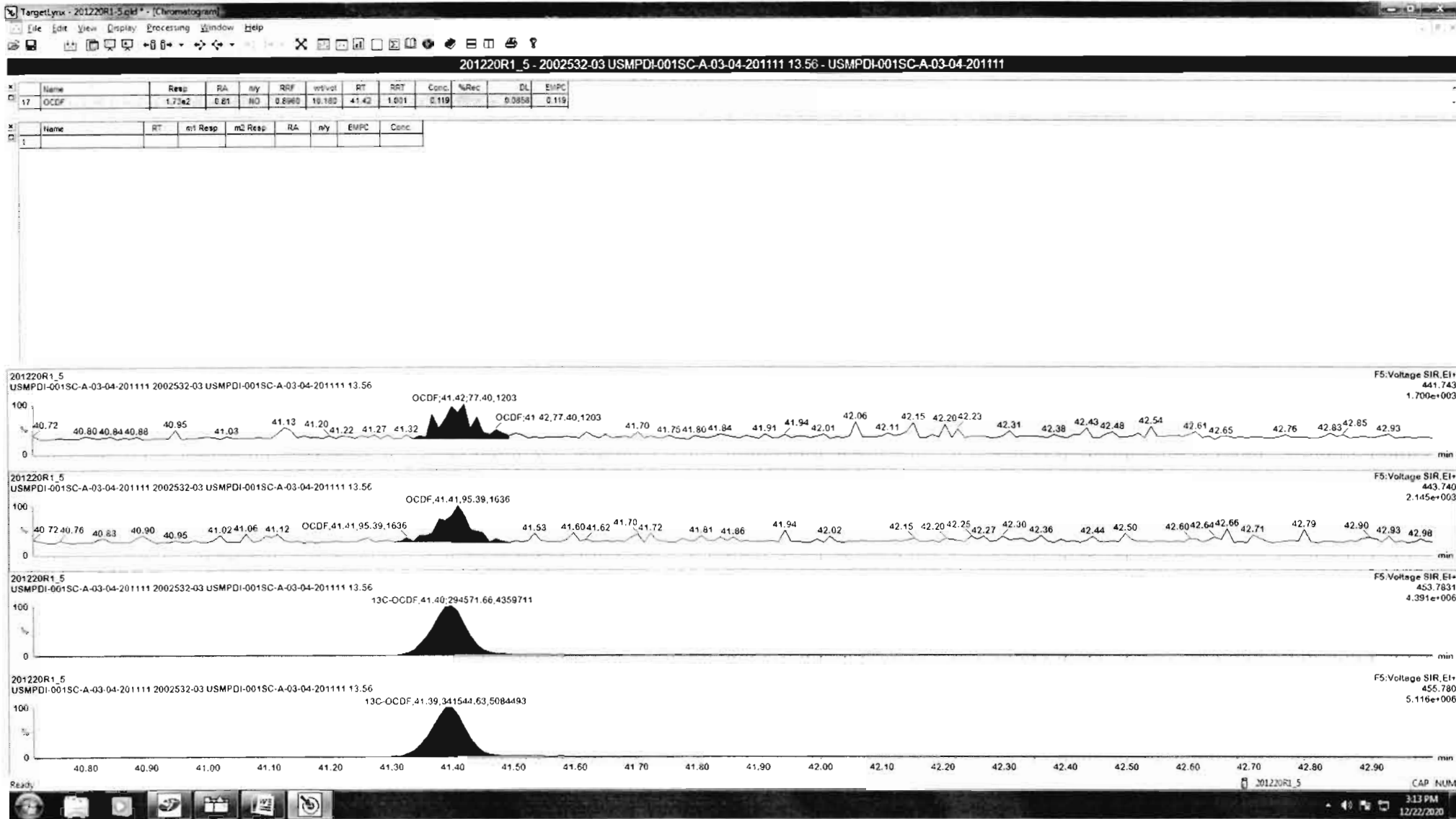
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Last Altered: Monday, December 21, 2020 06:50:00 Pacific Standard Time

Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

Name: 201220R1_5, Date: 20-Dec-2020, Time: 11:28:45, ID: 2002532-03 USMPDI-001SC-A-03-04-201111 13.56, Description: USMPDI-001SC-A-03-04-201111





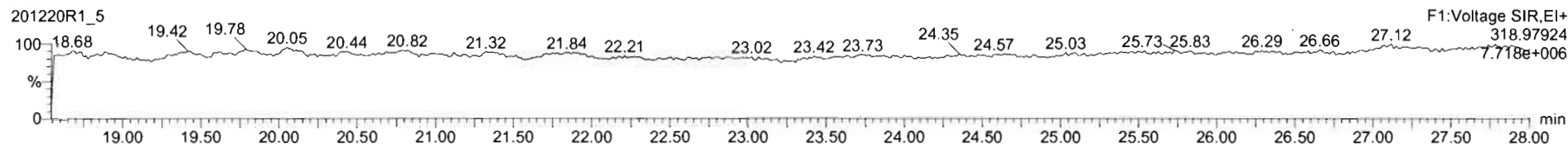
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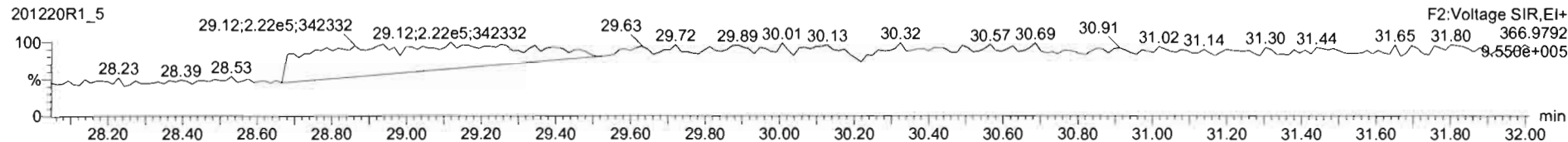
Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

Name: 201220R1_5, Date: 20-Dec-2020, Time: 11:28:45, ID: 2002532-03 USMPDI-001SC-A-03-04-201111 13.56, Description: USMPDI-001SC-A-03-04-201111

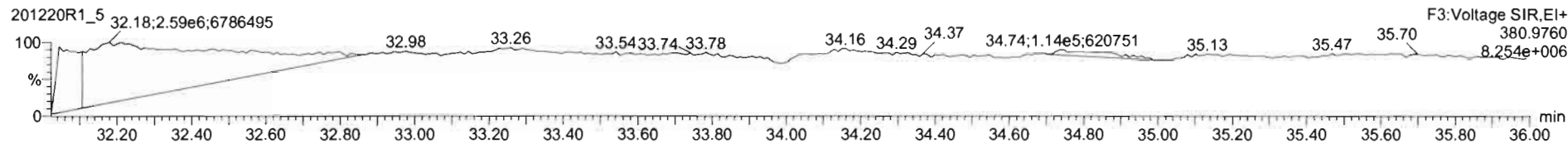
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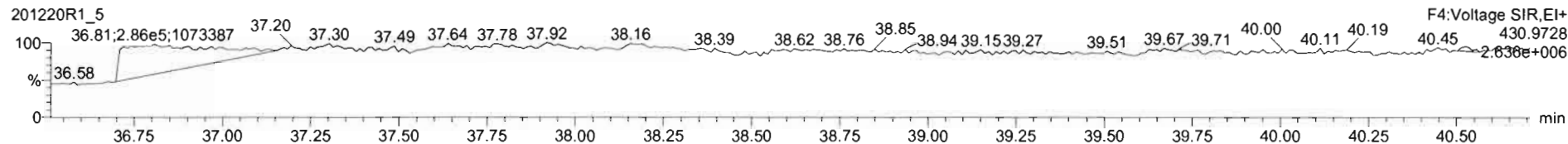
PFK2



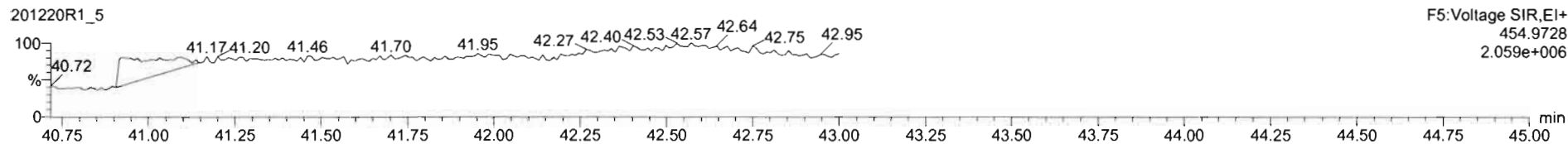
PFK3



PFK4



PFK5



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Dataset: U:\VG12.PRO\Results\201220R1\201220R1-6.qld

Last Altered: Tuesday, December 22, 2020 3:19:07 PM Pacific Standard Time

Printed: Tuesday, December 22, 2020 3:20:48 PM Pacific Standard Time

GRB 12/22/2020

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

Calibration: U:\VG12.PRO\CurveDB\vbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

WJM 12/22/20

Name: 201220R1_6, Date: 20-Dec-2020, Time: 12:13:01, ID: 2002532-04 USMPDI-001SC-A-04-05-201111 12.32, Description: USMPDI-001SC-A-04-05-201111

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.980	10.030	26.351		1.001				0.0481	
2	2 1,2,3,7,8-PeCDD			NO	0.932	10.030	31.049		1.001				0.0655	
3	3 1,2,3,4,7,8-HxCDD			NO	1.02	10.030	34.347		1.001				0.0713	
4	4 1,2,3,6,7,8-HxCDD			NO	0.902	10.030	34.463		1.001				0.0733	
5	5 1,2,3,7,8,9-HxCDD			NO	0.954	10.030	34.724		1.000				0.0744	
6	6 1,2,3,4,6,7,8-HpCDD	1.28e3	0.96	NO	0.918	10.030	38.190	38.21	1.000	1.001	0.77784		0.111	0.778
7	7 OCDD	7.02e3	0.85	NO	0.866	10.030	41.103	41.10	1.000	1.000	6.6208		0.169	6.62
8	8 2,3,7,8-TCDF			NO	0.848	10.030	25.628		1.000				0.0195	
9	9 1,2,3,7,8-PeCDF			NO	0.960	10.030	29.754		1.000				0.0307	
10	10 2,3,4,7,8-PeCDF			NO	1.07	10.030	30.844		1.001				0.0286	
11	11 1,2,3,4,7,8-HxCDF			NO	0.986	10.030	33.426		1.000				0.0347	
12	12 1,2,3,6,7,8-HxCDF			NO	1.04	10.030	33.571		1.001				0.0344	
13	13 2,3,4,6,7,8-HxCDF			NO	1.02	10.030	34.232		1.001				0.0390	
14	14 1,2,3,7,8,9-HxCDF			NO	0.991	10.030	35.217		1.000				0.0444	
15	15 1,2,3,4,6,7,8-HpCDF			NO	1.05	10.030	36.792		1.000				0.0636	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.18	10.030	38.817		1.000				0.0494	
17	17 OCDF			NO	0.896	10.030	41.396		1.000				0.0691	
18	18 13C-2,3,7,8-TCDD	8.25e5	0.78	NO	1.06	10.030	26.323	26.32	1.030	1.030	209.35	105	0.177	
19	19 13C-1,2,3,7,8-PeCDD	6.74e5	0.63	NO	0.785	10.030	31.157	31.02	1.219	1.214	229.98	115	0.253	
20	20 13C-1,2,3,4,7,8-HxCDD	4.35e5	1.29	NO	0.621	10.030	34.315	34.33	1.014	1.014	212.91	107	0.468	
21	21 13C-1,2,3,6,7,8-HxCDD	4.73e5	1.27	NO	0.734	10.030	34.437	34.44	1.017	1.017	195.51	98.0	0.396	
22	22 13C-1,2,3,7,8,9-HxCDD	4.64e5	1.27	NO	0.723	10.030	34.722	34.71	1.026	1.025	194.59	97.6	0.402	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.56e5	1.04	NO	0.568	10.030	38.219	38.18	1.129	1.128	190.30	95.4	0.973	
24	24 13C-OCDD	4.89e5	0.90	NO	0.496	10.030	41.154	41.10	1.216	1.214	298.99	75.0	0.527	
25	25 13C-2,3,7,8-TCDF	1.09e6	0.78	NO	0.919	10.030	25.623	25.63	1.003	1.003	211.20	106	0.250	
26	26 13C-1,2,3,7,8-PeCDF	9.57e5	1.59	NO	0.715	10.030	29.869	29.75	1.169	1.164	237.90	119	0.338	
27	27 13C-2,3,4,7,8-PeCDF	9.17e5	1.60	NO	0.689	10.030	30.955	30.82	1.212	1.206	236.80	119	0.351	
28	28 13C-1,2,3,4,7,8-HxCDF	5.51e5	0.51	NO	0.873	10.030	33.422	33.42	0.987	0.987	191.36	96.0	0.453	
29	29 13C-1,2,3,6,7,8-HxCDF	5.39e5	0.50	NO	0.933	10.030	33.550	33.55	0.991	0.991	175.32	87.9	0.424	
30	30 13C-2,3,4,6,7,8-HxCDF	5.27e5	0.51	NO	0.843	10.030	34.217	34.21	1.011	1.011	189.62	95.1	0.469	
31	31 13C-1,2,3,7,8,9-HxCDF	5.00e5	0.50	NO	0.780	10.030	35.216	35.21	1.040	1.040	194.43	97.5	0.507	

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Dataset: U:\VG12.PRO\Results\201220R1\201220R1-6.qld

Last Altered: Tuesday, December 22, 2020 3:19:07 PM Pacific Standard Time

Printed: Tuesday, December 22, 2020 3:20:48 PM Pacific Standard Time

Name: 201220R1_6, Date: 20-Dec-2020, Time: 12:13:01, ID: 2002532-04 USMPDI-001SC-A-04-05-201111 12.32, Description: USMPDI-001SC-A-04-05-201111

#	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	3.28e5	0.42	NO	0.726	10.030	36.790	36.77	1.087	1.086	137.08	68.7	0.533	
33	13C-1,2,3,4,7,8,9-HpCDF	3.12e5	0.42	NO	0.491	10.030	38.798	38.81	1.146	1.146	192.81	96.7	0.789	
34	13C-OCDF	5.64e5	0.87	NO	0.565	10.030	41.371	41.39	1.222	1.223	302.59	75.9	0.569	
35	37Cl-2,3,7,8-TCDD	3.49e5			1.22	10.030	26.318	26.33	1.030	1.031	76.816	96.3	0.0471	
36	13C-1,2,3,4-TCDD	7.44e5	0.79	NO	1.00	10.030	25.640	25.55	1.000	1.000	199.40	100	0.187	
37	13C-1,2,3,4-TCDF	1.12e6	0.79	NO	1.00	10.030	24.130	24.04	1.000	1.000	199.40	100	0.230	
38	13C-1,2,3,4,6,9-HxCDF	6.57e5	0.51	NO	1.00	10.030	33.920	33.85	1.000	1.000	199.40	100	0.395	
39	Total Tetra-Dioxins				0.980	10.030	24.620		0.000		0.22962		0.0481	0.230
40	Total Penta-Dioxins				0.932	10.030	29.960		0.000		0.00000		0.0295	0.287
41	Total Hexa-Dioxins				0.902	10.030	33.635		0.000		0.82411		0.0774	1.25
42	Total Hepta-Dioxins				0.918	10.030	37.640		0.000		2.2268		0.111	2.23
43	Total Tetra-Furans				0.848	10.030	23.610		0.000				0.00966	
44	1st Func. Penta-Furans				0.960	10.030	26.930		0.000				0.00640	
45	Total Penta-Furans				0.960	10.030	29.275		0.000				0.0129	
46	Total Hexa-Furans				1.02	10.030	33.555		0.000				0.0189	
47	Total Hepta-Furans				1.05	10.030	37.835		0.000				0.0290	

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Dataset: U:\VG12.PRO\Results\201220R1\201220R1-6.qld

Last Altered: Tuesday, December 22, 2020 3:19:07 PM Pacific Standard Time

Printed: Tuesday, December 22, 2020 3:20:48 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\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201220R1_6, Date: 20-Dec-2020, Time: 12:13:01, ID: 2002532-04 USMPDI-001SC-A-04-05-201111 12.32, Description: USMPDI-001SC-A-04-05-201111

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	24.24	5.037e3	7.568e3	4.057e2	5.258e2	0.77	NO	9.315e2	0.22962	0.22962	0.0481

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	1.740e3	3.239e3	1.222e2	1.567e2	0.78	YES	0.000e0	0.00000	0.081120	0.0295
2	Total Penta-Dioxins	29.24	4.538e3	5.575e3	1.546e2	2.082e2	0.74	YES	0.000e0	0.00000	0.10775	0.0655
3	Total Penta-Dioxins	29.56	3.060e3	6.849e3	1.200e2	3.666e2	0.33	YES	0.000e0	0.00000	0.098568	0.0655

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	1.901e4	1.572e4	9.504e2	7.554e2	1.26	NO	1.706e3	0.82411	0.82411	0.0774
2	Total Hexa-Dioxins	33.59	8.232e3	5.640e3	6.418e2	3.905e2	1.64	YES	0.000e0	0.00000	0.42259	0.0774

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.16	1.585e4	1.699e4	1.143e3	1.233e3	0.93	NO	2.376e3	1.4489	1.4489	0.111
2	1,2,3,4,6,7,8-HpCDD	38.21	1.136e4	9.621e3	6.253e2	6.500e2	0.96	NO	1.275e3	0.77784	0.77784	0.111

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												

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Dataset: U:\VG12.PRO\Results\201220R1\201220R1-6.qld

Last Altered: Tuesday, December 22, 2020 3:19:07 PM Pacific Standard Time

Printed: Tuesday, December 22, 2020 3:20:48 PM Pacific Standard Time

Name: 201220R1_6, Date: 20-Dec-2020, Time: 12:13:01, ID: 2002532-04 USMPDI-001SC-A-04-05-201111 12.32, Description: USMPDI-001SC-A-04-05-201111

Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

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

Dataset: Untitled

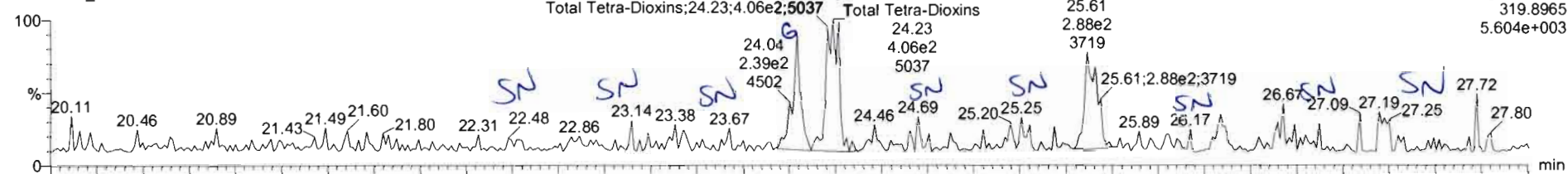
Last Altered: Monday, December 21, 2020 06:50:00 Pacific Standard Time

Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

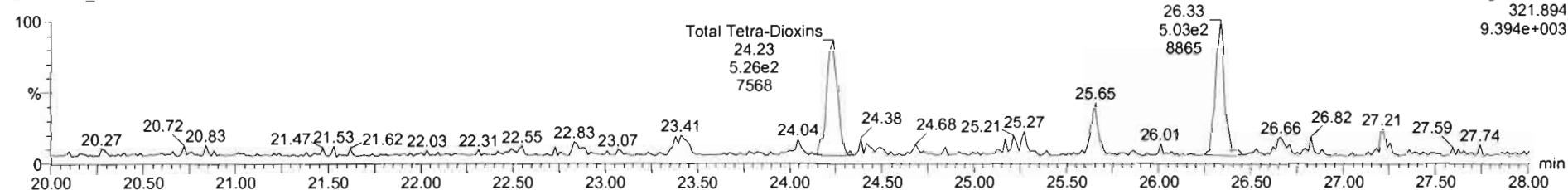
Name: 201220R1_6, Date: 20-Dec-2020, Time: 12:13:01, ID: 2002532-04 USMPDI-001SC-A-04-05-201111 12.32, Description: USMPDI-001SC-A-04-05-201111

2,3,7,8-TCDD

201220R1_6

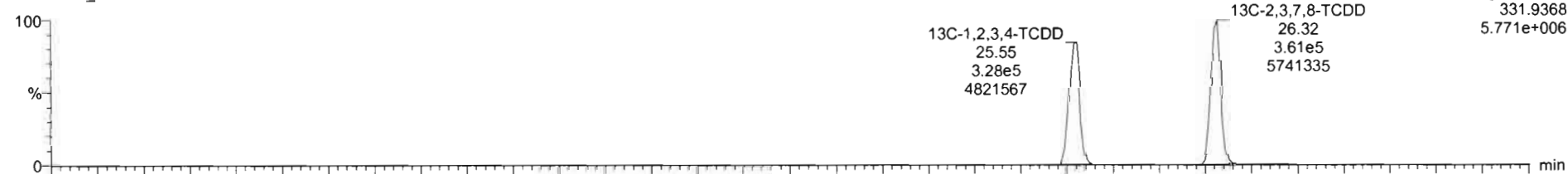


201220R1_6

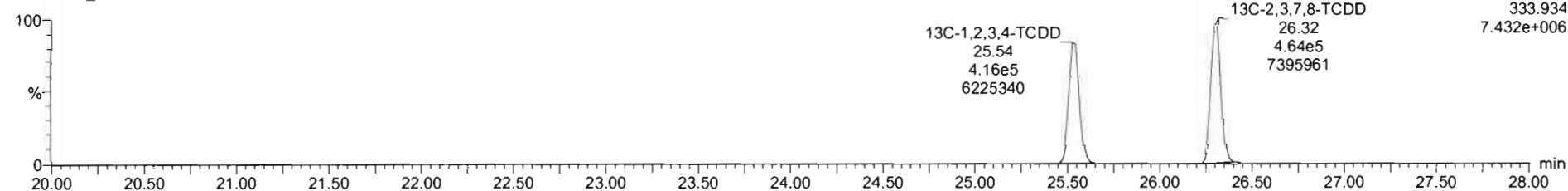


13C-2,3,7,8-TCDD

201220R1_6



201220R1_6



Dataset: Untitled

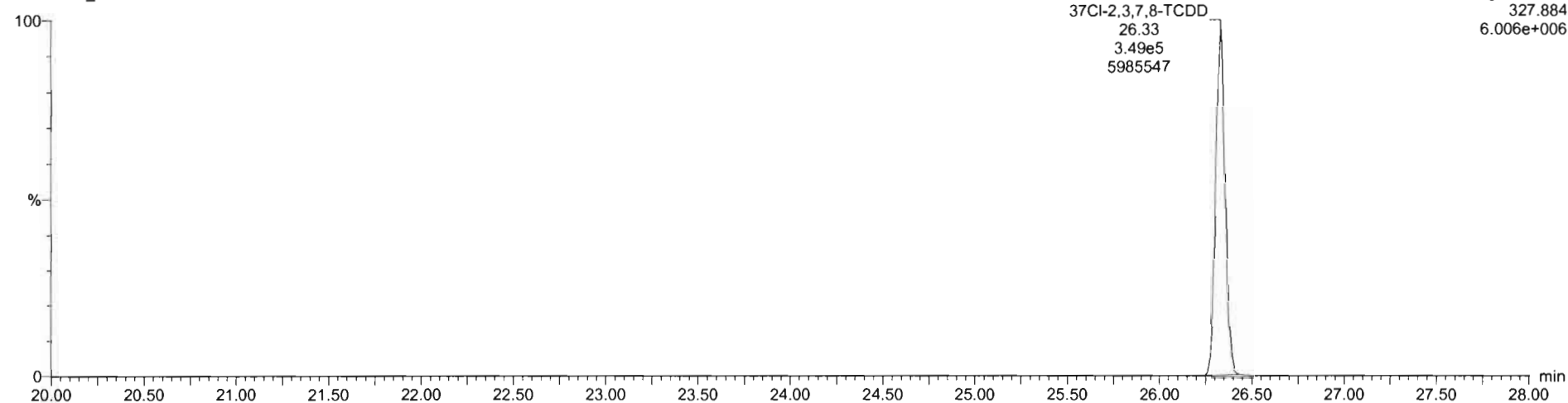
Last Altered: Monday, December 21, 2020 06:50:00 Pacific Standard Time

Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

Name: 201220R1_6, Date: 20-Dec-2020, Time: 12:13:01, ID: 2002532-04 USMPDI-001SC-A-04-05-201111 12.32, Description: USMPDI-001SC-A-04-05-201111

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

201220R1_6

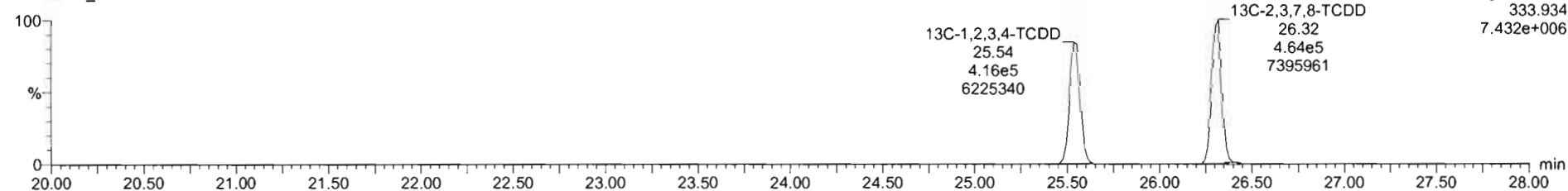


13C-1,2,3,4-TCDD

201220R1_6



201220R1_6



Dataset: Untitled

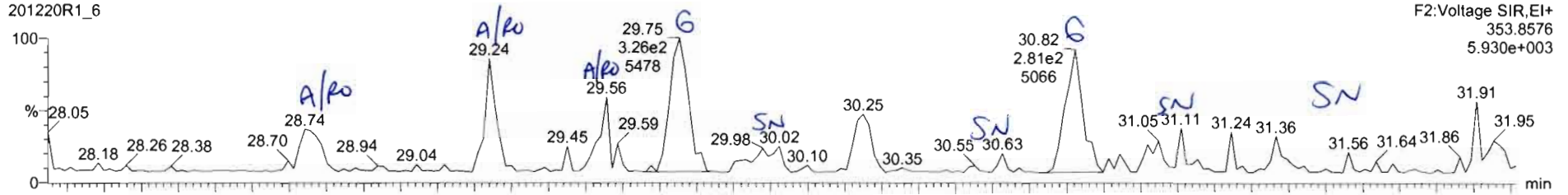
Last Altered: Monday, December 21, 2020 06:50:00 Pacific Standard Time

Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

Name: 201220R1_6, Date: 20-Dec-2020, Time: 12:13:01, ID: 2002532-04 USMPDI-001SC-A-04-05-201111 12.32, Description: USMPDI-001SC-A-04-05-201111

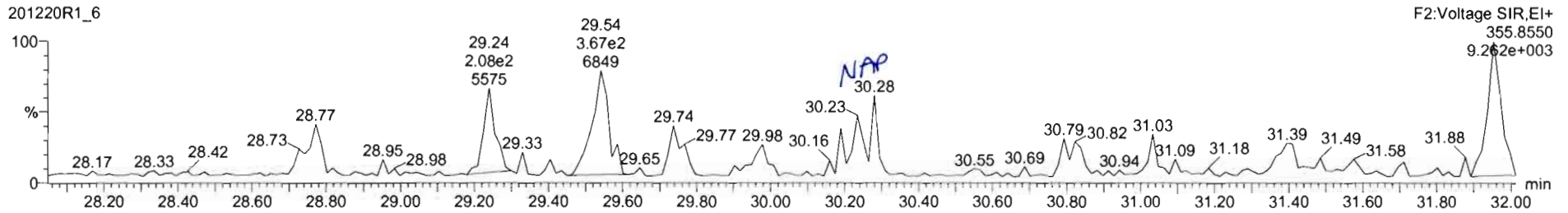
1,2,3,7,8-PeCDD

201220R1_6



F2:Voltage SIR,EI+
353.8576
5.930e+003

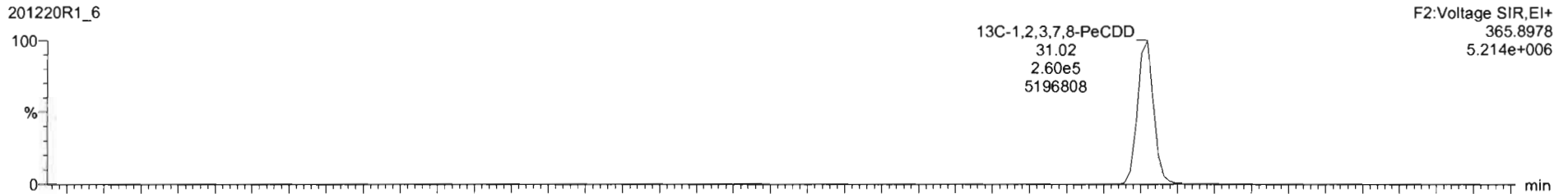
201220R1_6



F2:Voltage SIR,EI+
355.8550
9.262e+003

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

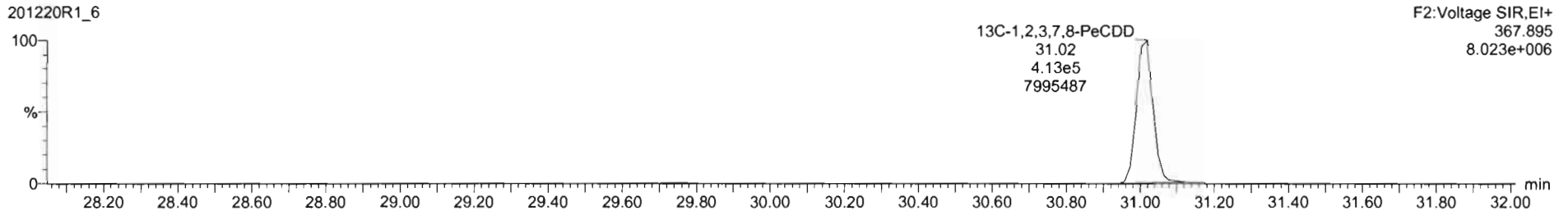
201220R1_6



13C-1,2,3,7,8-PeCDD
31.02
2.60e5
5196808

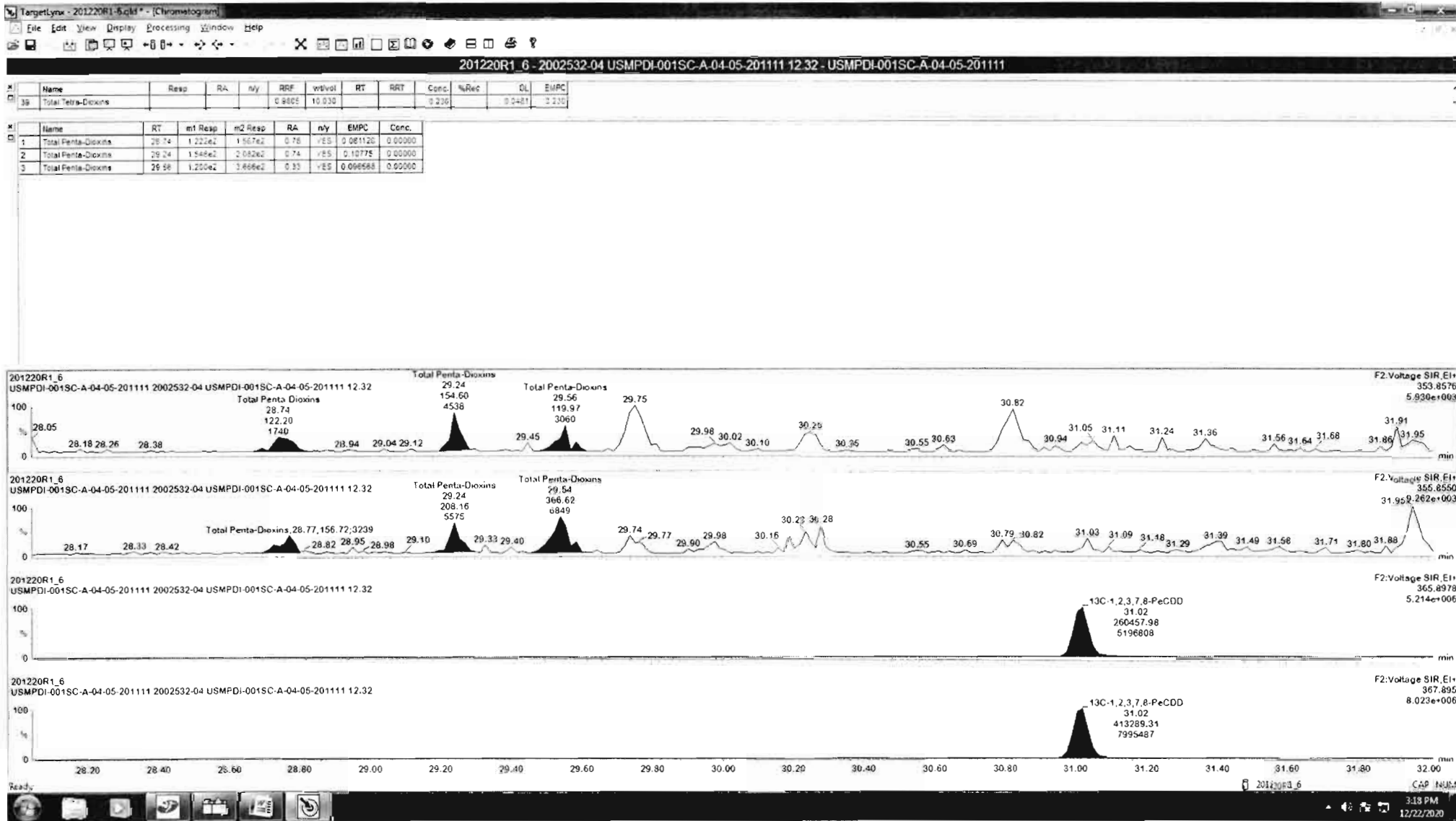
F2:Voltage SIR,EI+
365.8978
5.214e+006

201220R1_6



13C-1,2,3,7,8-PeCDD
31.02
4.13e5
7995487

F2:Voltage SIR,EI+
367.895
8.023e+006



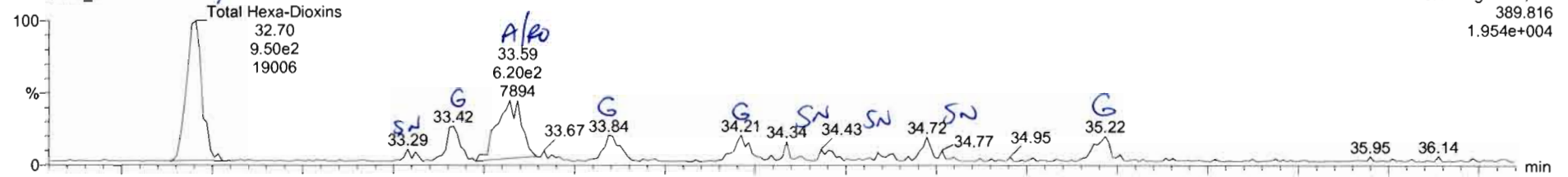
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Name: 201220R1_6, Date: 20-Dec-2020, Time: 12:13:01, ID: 2002532-04 USMPDI-001SC-A-04-05-201111 12.32, Description: USMPDI-001SC-A-04-05-201111

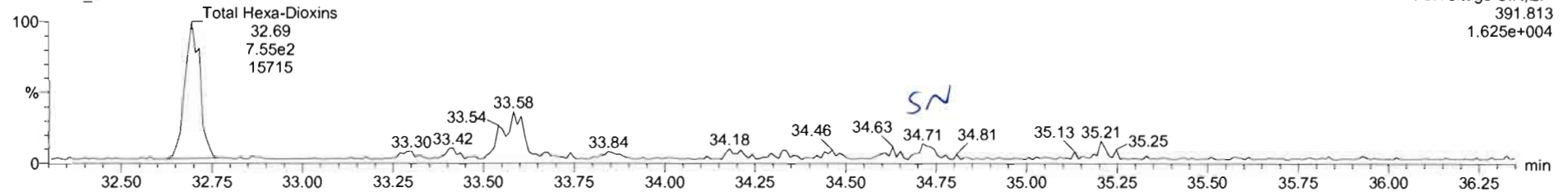
1,2,3,4,7,8-HxCDD

201220R1_6



F3:Voltage SIR,EI+
389.816
1.954e+004

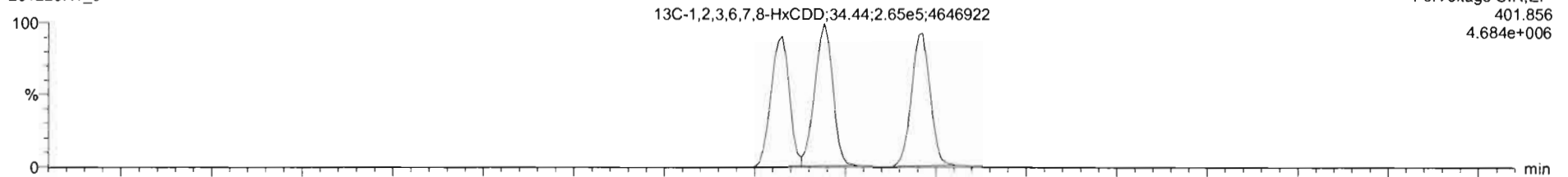
201220R1_6



F3:Voltage SIR,EI+
391.813
1.625e+004

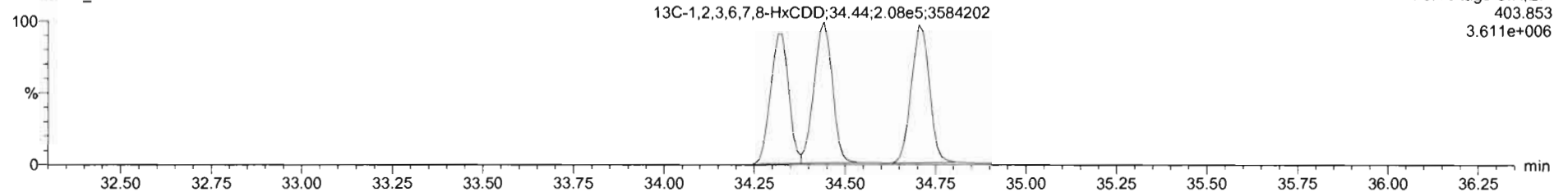
13C-1,2,3,4,7,8-HxCDD

201220R1_6

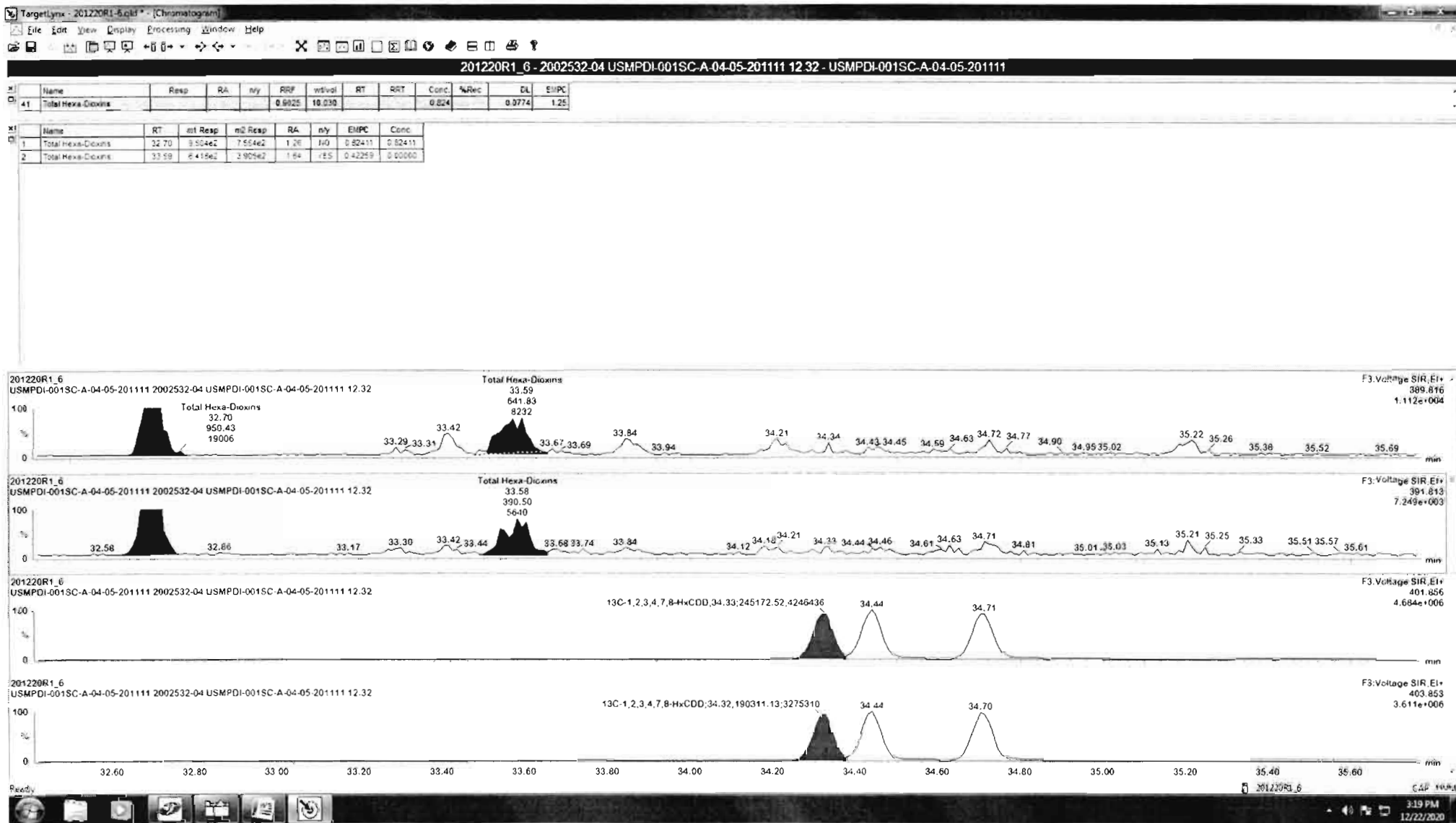


F3:Voltage SIR,EI+
401.856
4.684e+006

201220R1_6



F3:Voltage SIR,EI+
403.853
3.611e+006



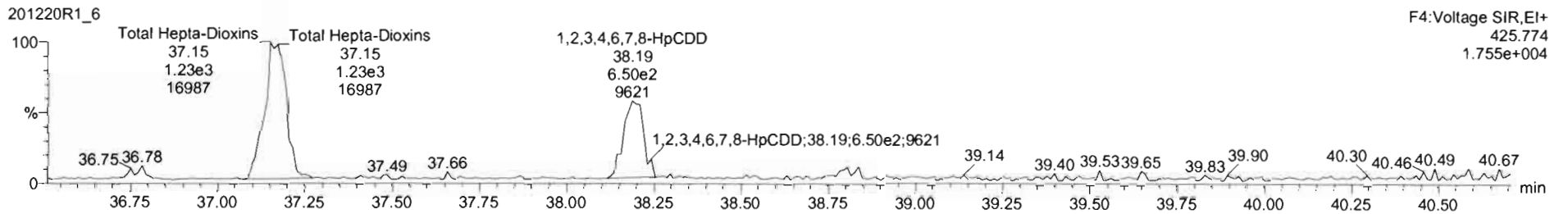
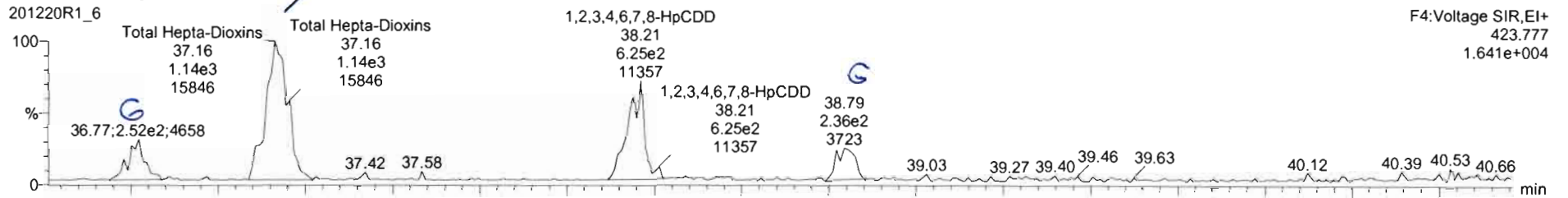
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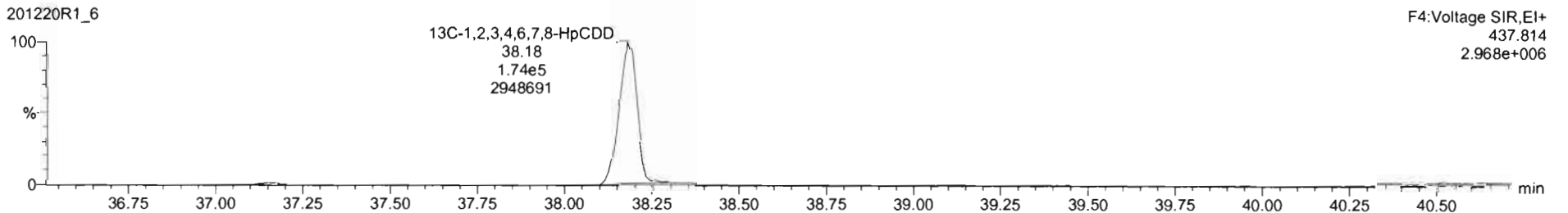
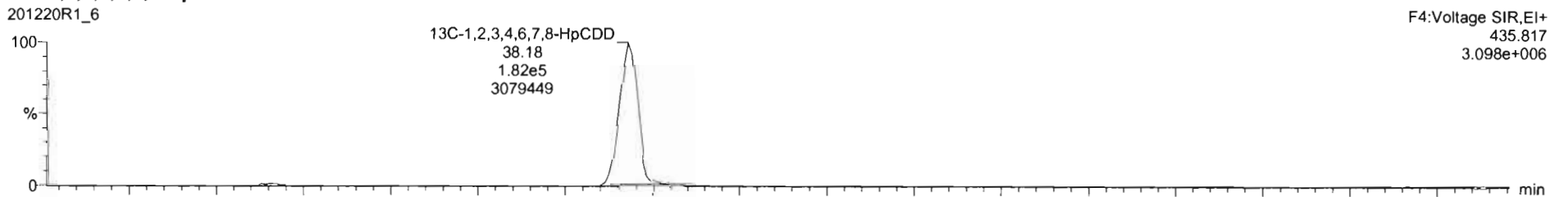
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Name: 201220R1_6, Date: 20-Dec-2020, Time: 12:13:01, ID: 2002532-04 USMPDI-001SC-A-04-05-201111 12.32, Description: USMPDI-001SC-A-04-05-201111

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



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

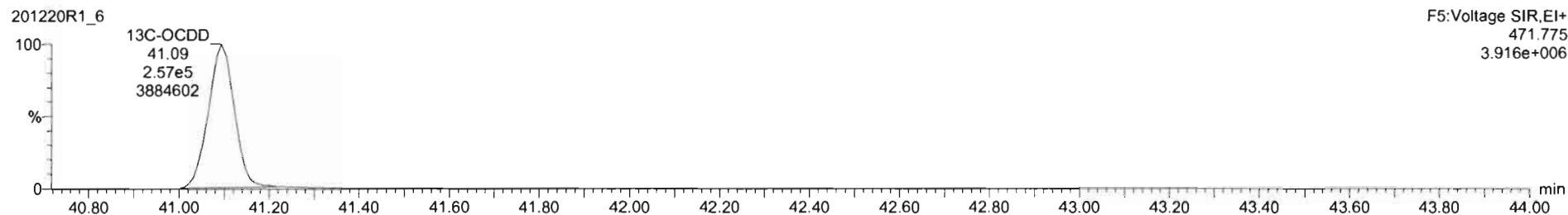
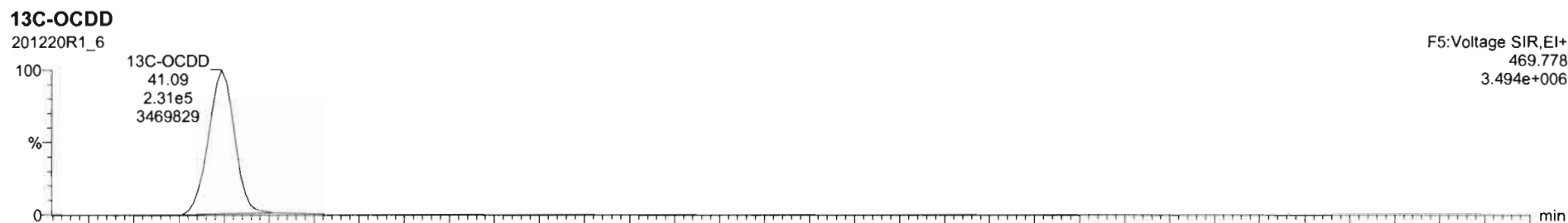
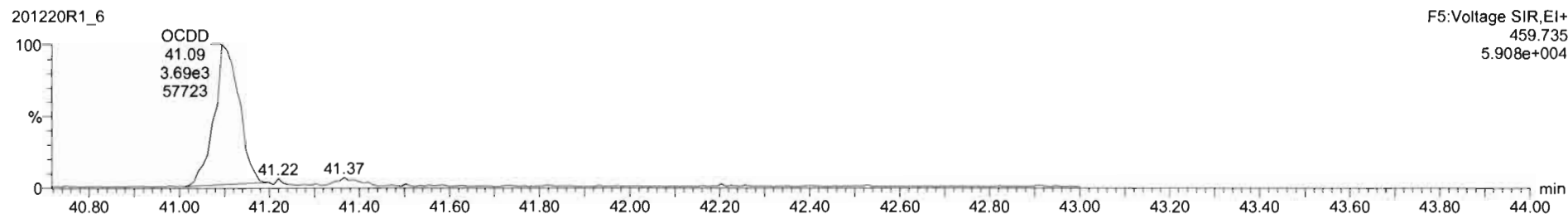
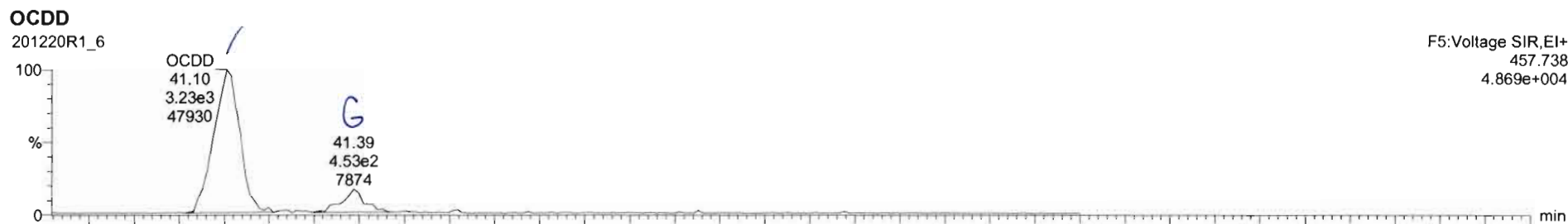


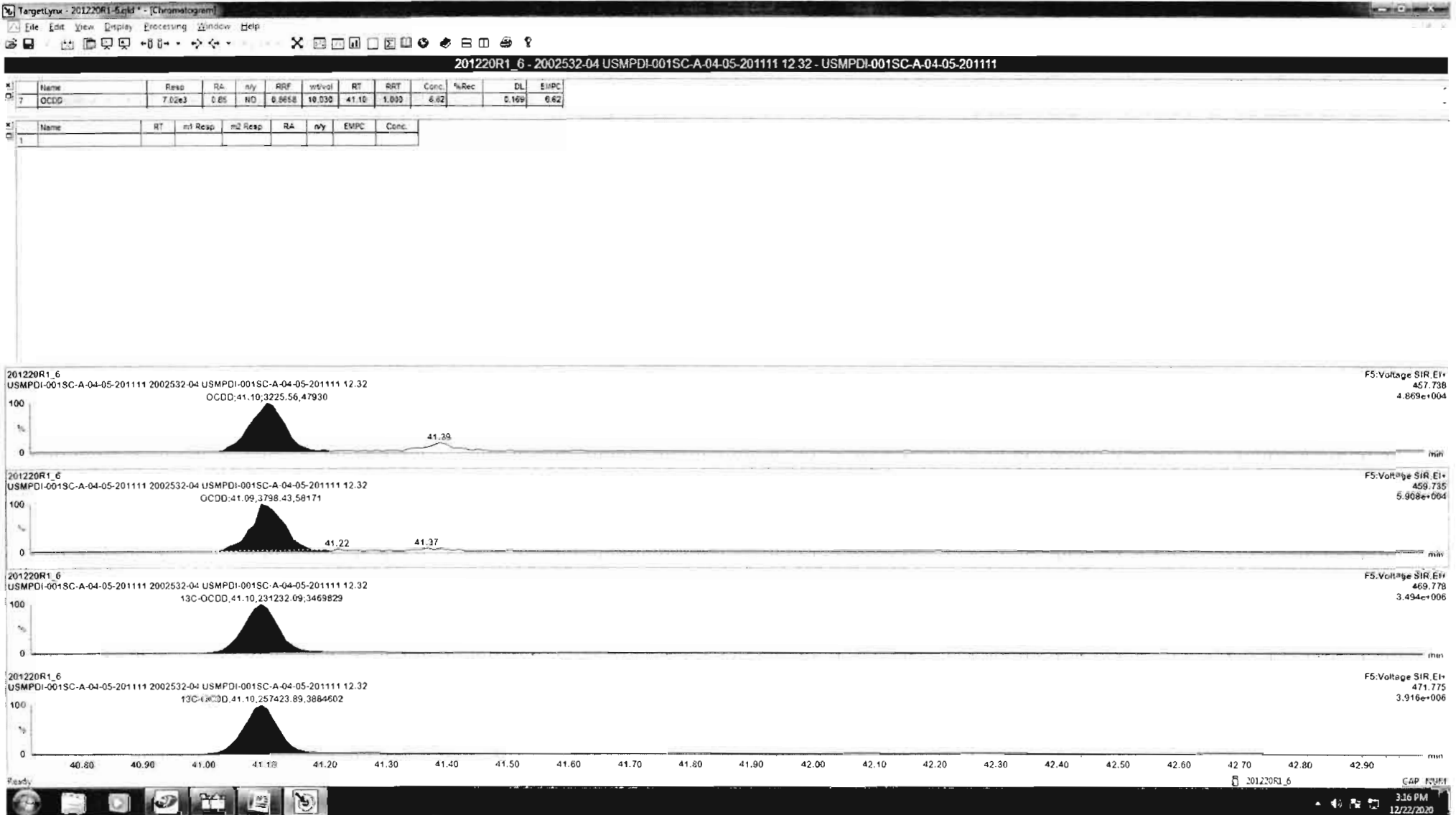
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Last Altered: Monday, December 21, 2020 06:50:00 Pacific Standard Time

Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

Name: 201220R1_6, Date: 20-Dec-2020, Time: 12:13:01, ID: 2002532-04 USMPDI-001SC-A-04-05-201111 12.32, Description: USMPDI-001SC-A-04-05-201111



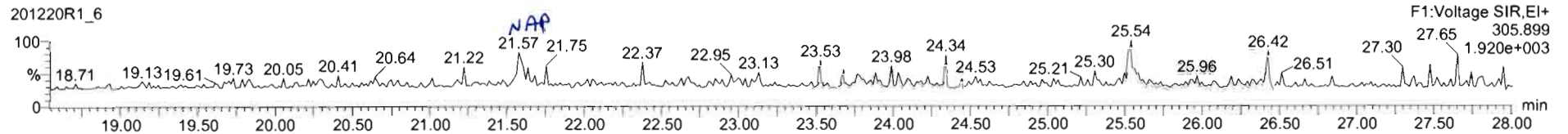
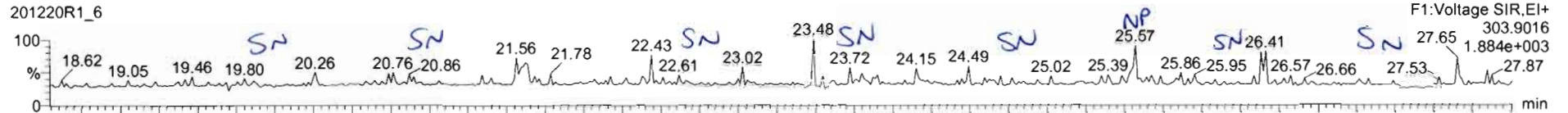


Dataset: Untitled

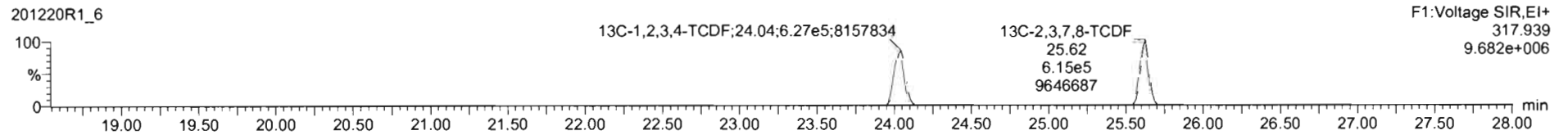
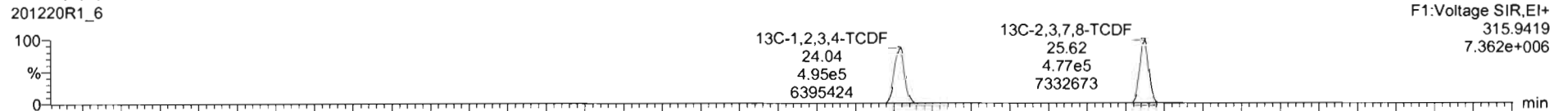
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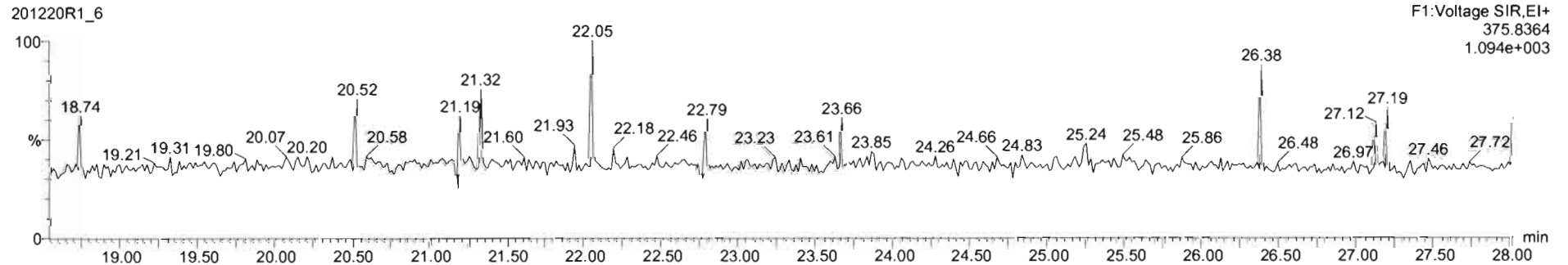
2,3,7,8-TCDF



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



DPE1



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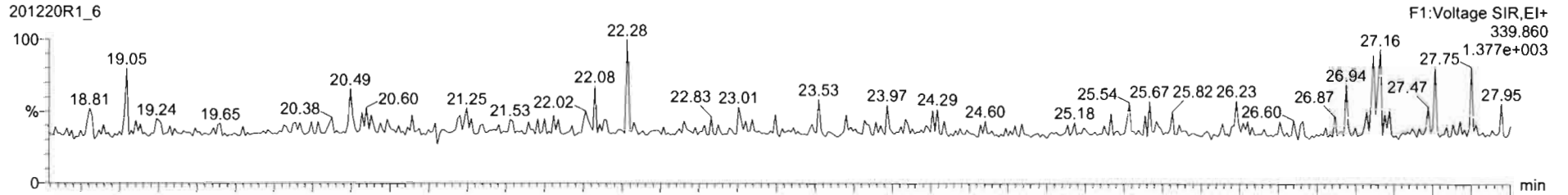
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Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

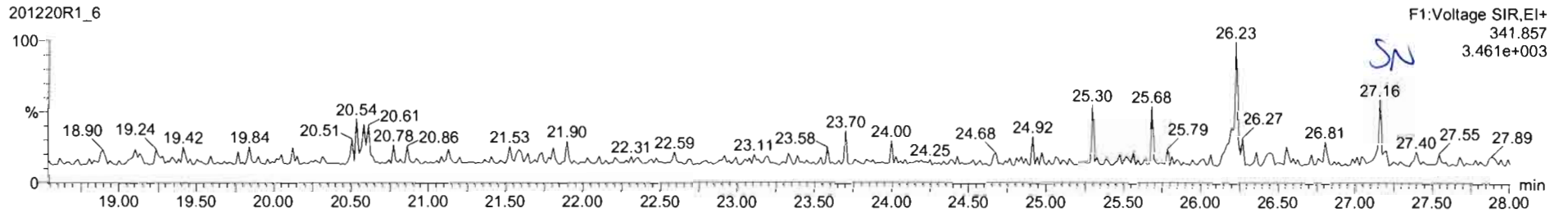
Name: 201220R1_6, Date: 20-Dec-2020, Time: 12:13:01, ID: 2002532-04 USMPDI-001SC-A-04-05-201111 12.32, Description: USMPDI-001SC-A-04-05-201111

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201220R1_6

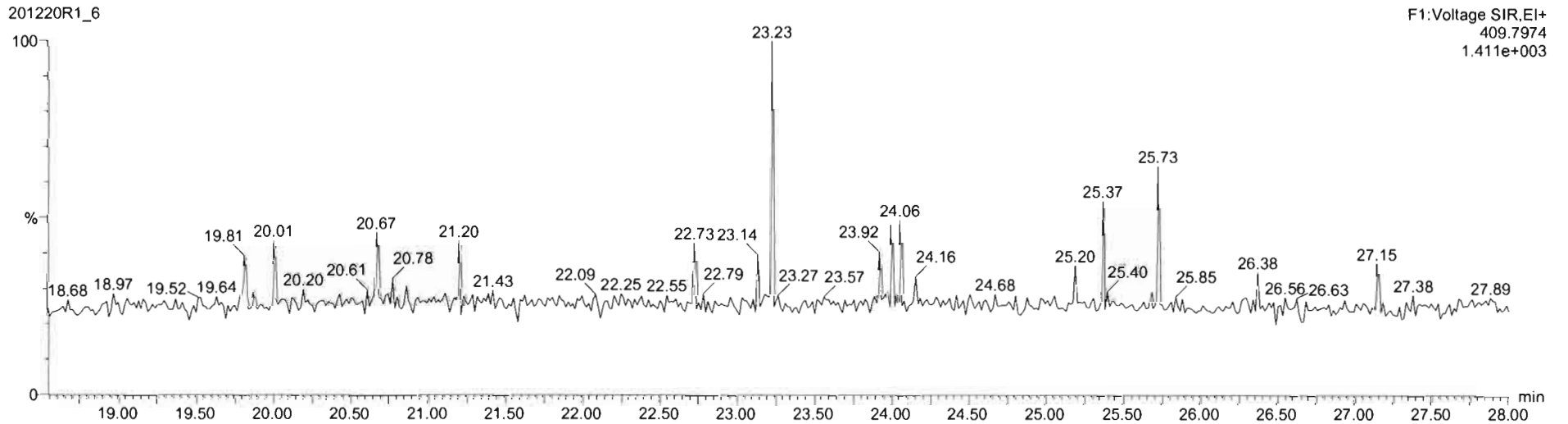


201220R1_6



DPE6

201220R1_6

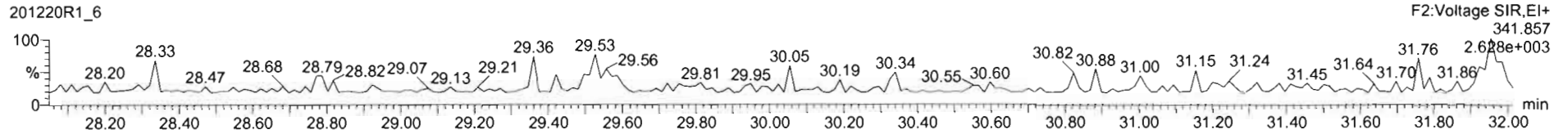
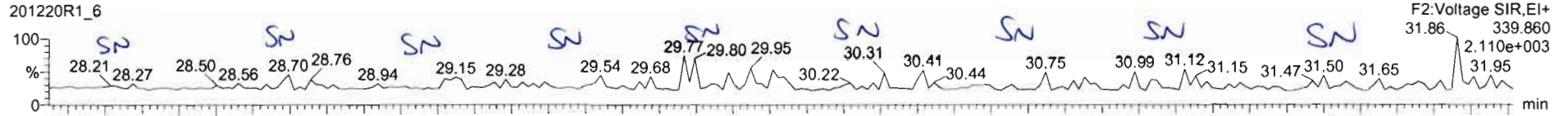


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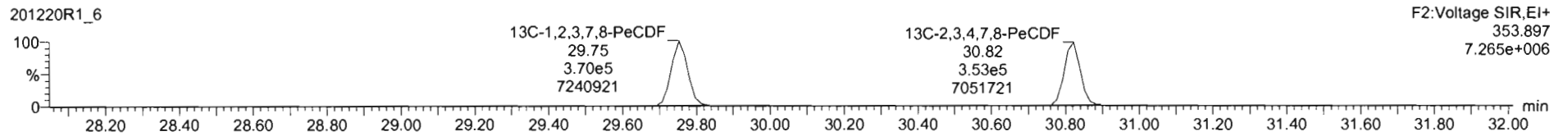
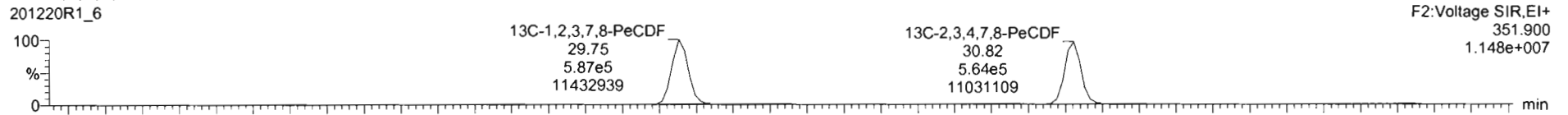
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Name: 201220R1_6, Date: 20-Dec-2020, Time: 12:13:01, ID: 2002532-04 USMPDI-001SC-A-04-05-201111 12.32, Description: USMPDI-001SC-A-04-05-201111

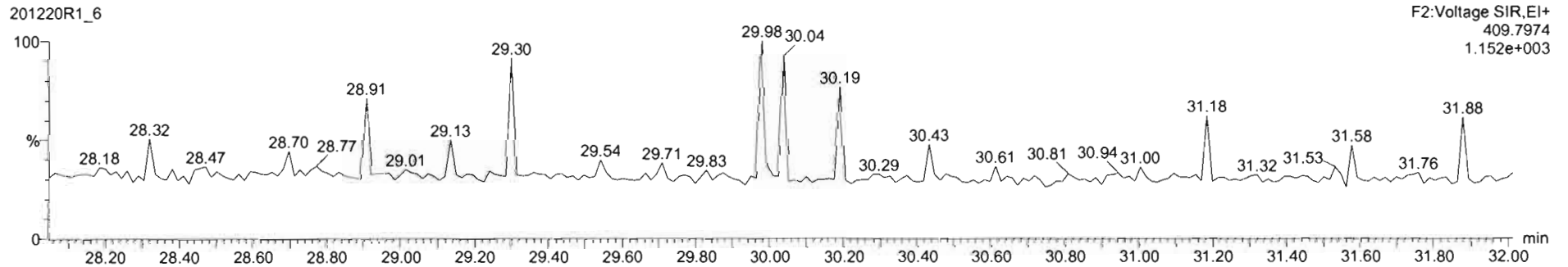
1,2,3,7,8-PeCDF



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



DPE2

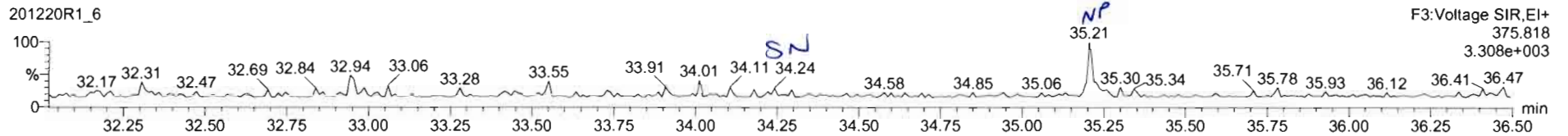
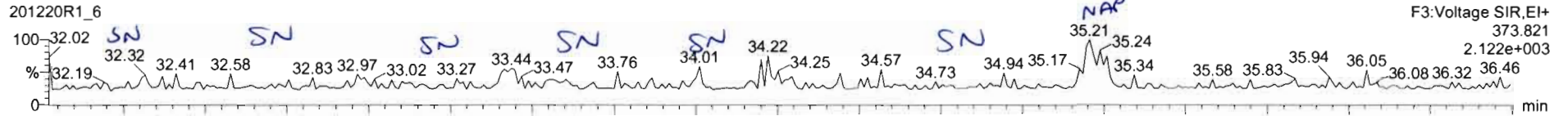


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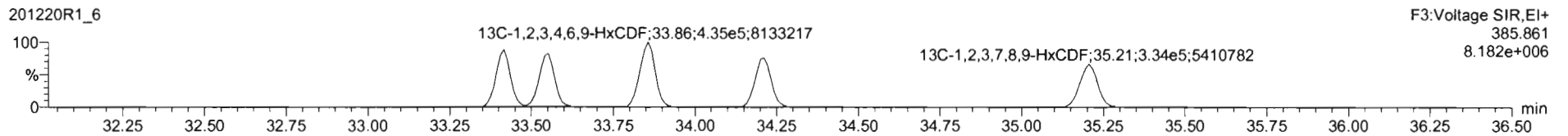
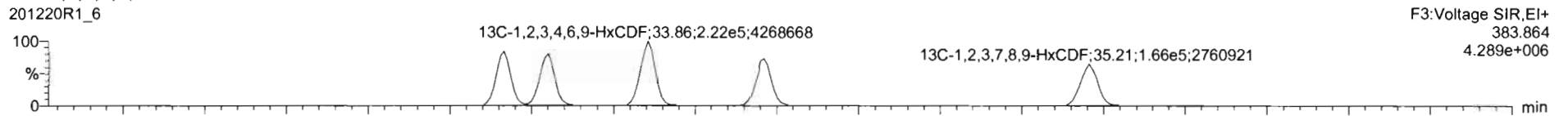
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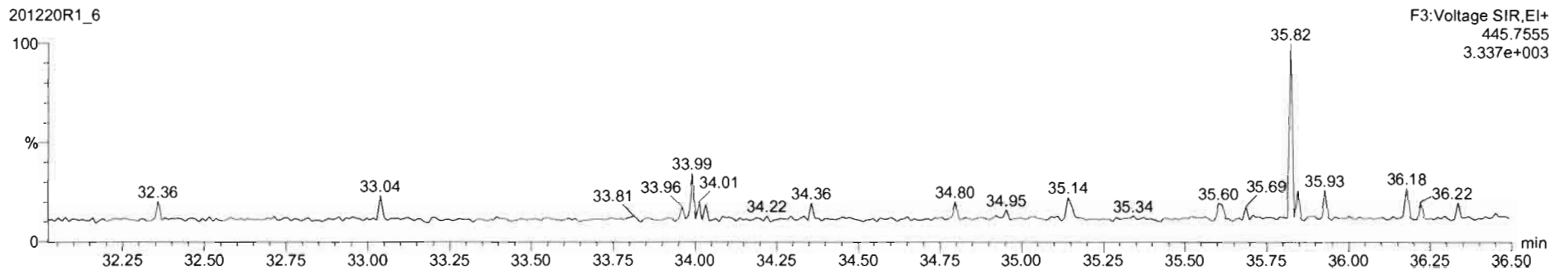
1,2,3,4,7,8-HxCDF



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



DPE3

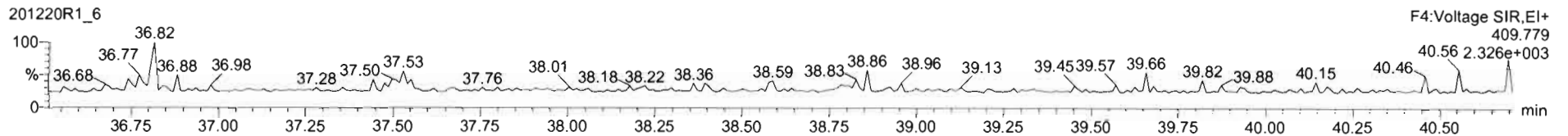
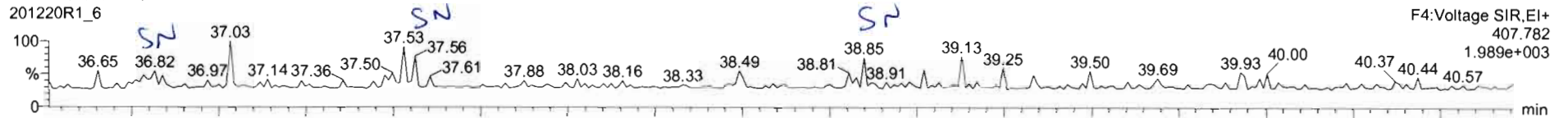


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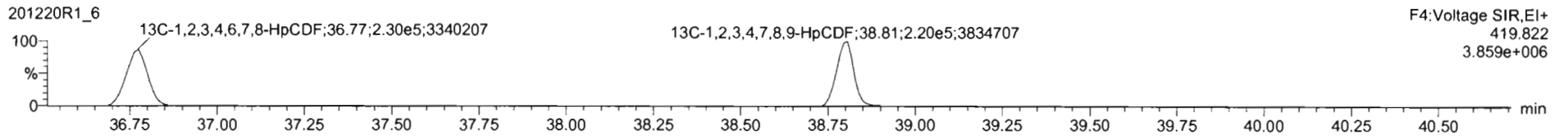
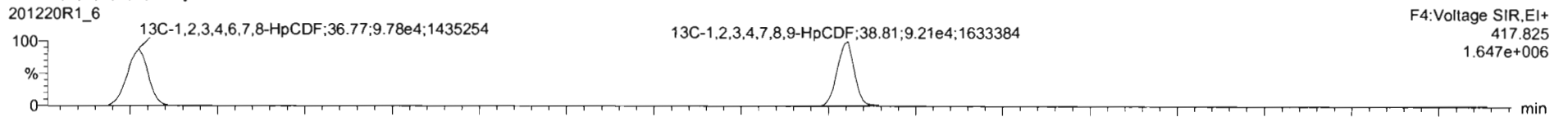
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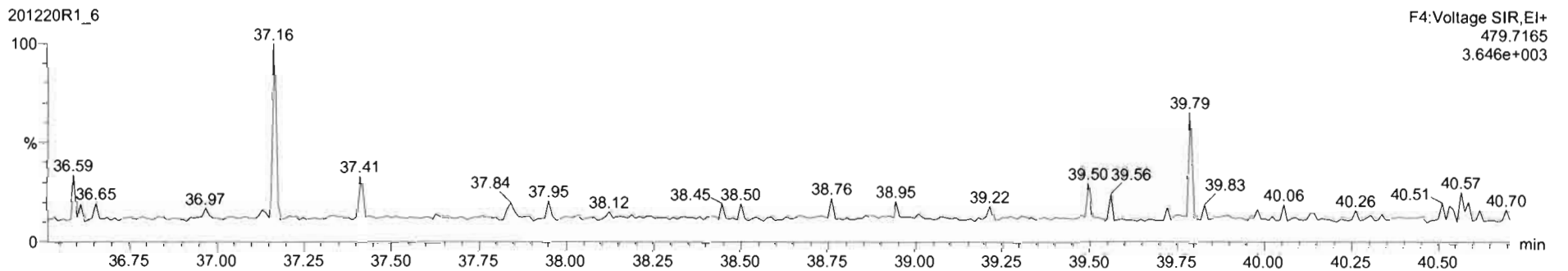
1,2,3,4,6,7,8-HpCDF



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



DPE4

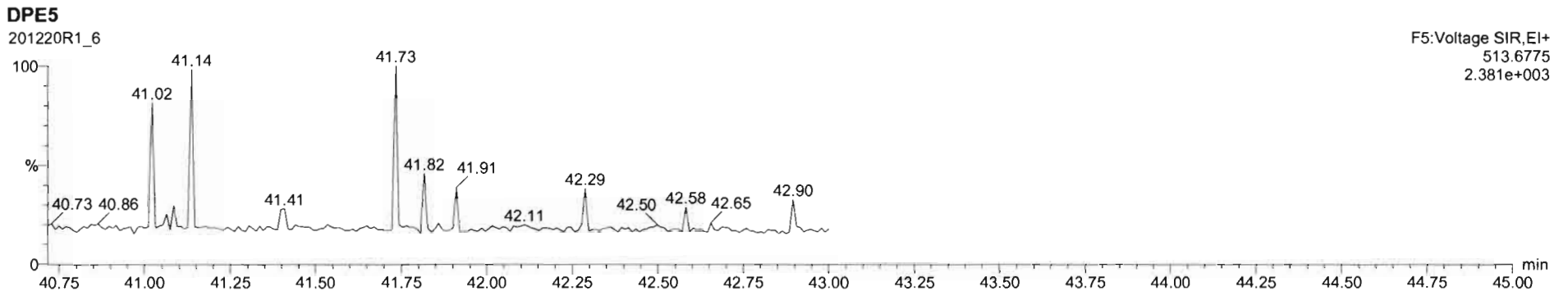
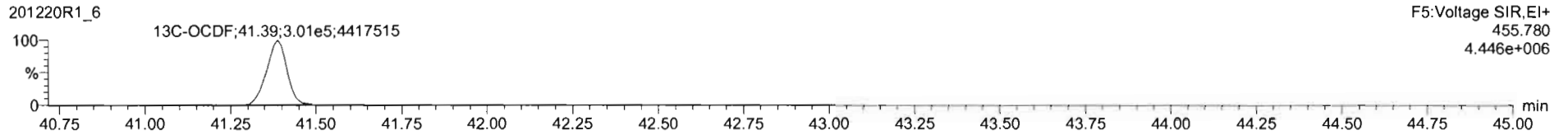
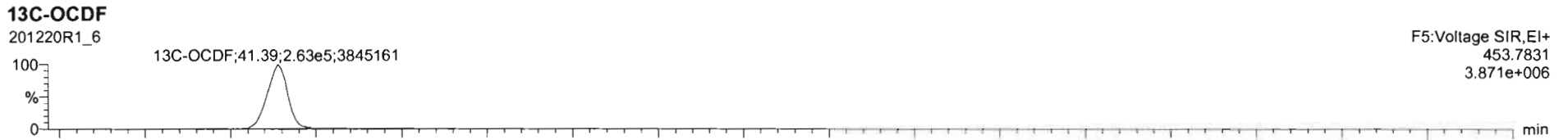
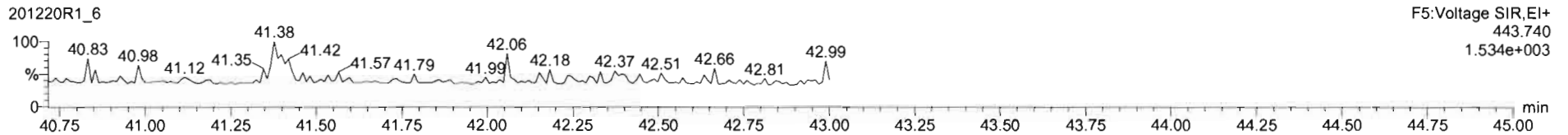
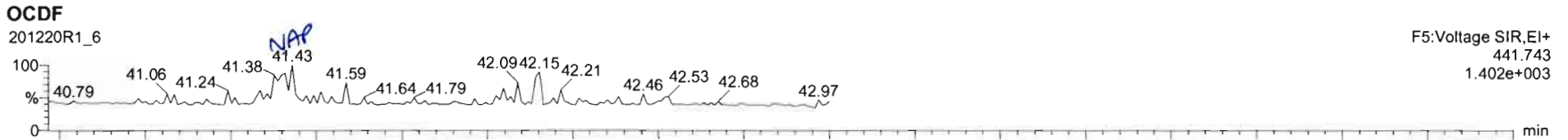


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Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

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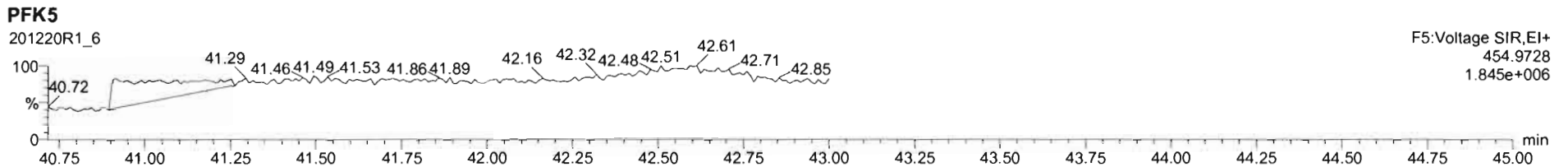
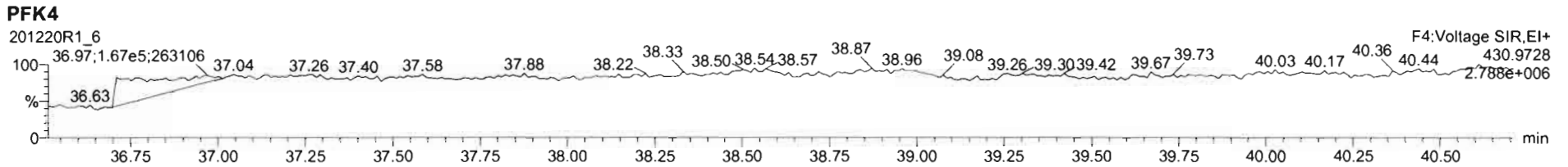
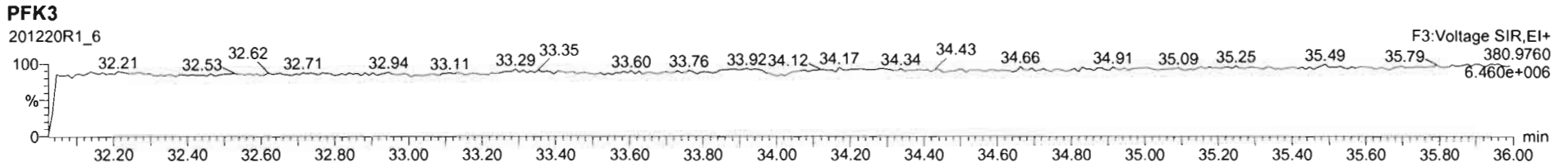
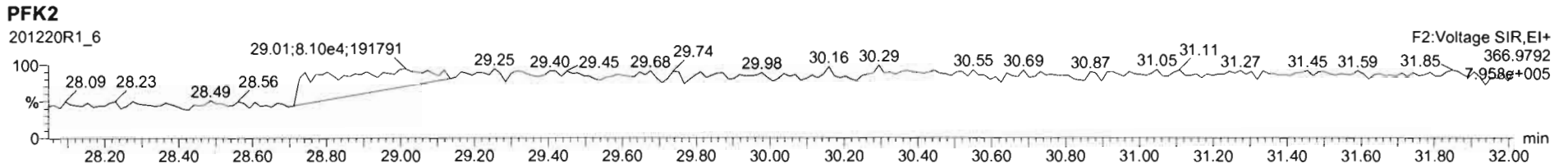
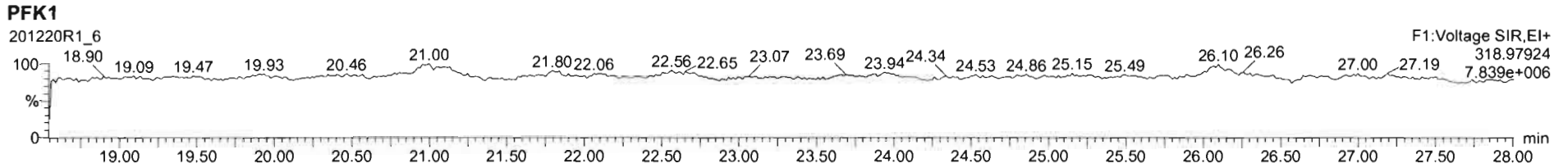


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Last Altered: Monday, December 21, 2020 06:50:00 Pacific Standard Time

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Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201220R1\201220R1-7.qld

Last Altered: Wednesday, December 23, 2020 8:17:30 AM Pacific Standard Time

Printed: Wednesday, December 23, 2020 8:17:53 AM Pacific Standard Time

GRB 12/23/2020

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

MLL 12/23/20

Name: 201220R1_7, Date: 20-Dec-2020, Time: 12:57:15, ID: 2002532-05 USMPDI-002SC-A-04-05-201111 15.08, Description: USMPDI-002SC-A-04-05-201111

#	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	6.25e2	0.24	YES	0.980	10.171	26.351	26.33	1.001	1.001	0.16426		0.0573	0.0729
2	2 1,2,3,7,8-PeCDD	4.67e2	0.84	YES	0.932	10.171	31.048	31.03	1.001	1.001	0.14755		0.0812	0.131
3	3 1,2,3,4,7,8-HxCDD	4.70e2	1.30	NO	1.02	10.171	34.336	34.33	1.001	1.000	0.20108		0.157	0.201
4	4 1,2,3,6,7,8-HxCDD	4.90e3	1.21	NO	0.902	10.171	34.462	34.45	1.001	1.000	2.1449		0.166	2.14
5	5 1,2,3,7,8,9-HxCDD	1.32e3	1.21	NO	0.954	10.171	34.723	34.71	1.000	1.000	0.54693		0.161	0.547
6	6 1,2,3,4,6,7,8-HpCDD	1.09e5	1.01	NO	0.918	10.171	38.189	38.19	1.000	1.000	57.709		0.715	57.7
7	7 OCDD	7.28e5	0.87	NO	0.866	10.171	41.102	41.12	1.000	1.001	578.58		0.796	579
8	8 2,3,7,8-TCDF	2.76e3	0.67	NO	0.848	10.171	25.628	25.64	1.000	1.001	0.61362		0.0838	0.614
9	9 1,2,3,7,8-PeCDF	3.26e3	1.64	NO	0.960	10.171	29.754	29.78	1.000	1.001	0.70539		0.0707	0.705
10	10 2,3,4,7,8-PeCDF	3.71e3	1.46	NO	1.07	10.171	30.844	30.84	1.001	1.000	0.77070		0.0610	0.771
11	11 1,2,3,4,7,8-HxCDF	4.53e3	1.17	NO	0.986	10.171	33.425	33.42	1.000	1.000	1.5657		0.101	1.57
12	12 1,2,3,6,7,8-HxCDF	1.66e3	1.29	NO	1.04	10.171	33.561	33.55	1.001	1.000	0.55658		0.102	0.557
13	13 2,3,4,6,7,8-HxCDF	1.76e3	1.32	NO	1.02	10.171	34.232	34.23	1.001	1.001	0.62624		0.113	0.626
14	14 1,2,3,7,8,9-HxCDF	4.89e2	1.24	NO	0.991	10.171	35.216	35.24	1.000	1.001	0.19189		0.139	0.192
15	15 1,2,3,4,6,7,8-HpCDF	2.75e4	1.01	NO	1.05	10.171	36.781	36.78	1.000	1.001	13.779		0.160	13.8
16	16 1,2,3,4,7,8,9-HpCDF	8.85e2	1.17	NO	1.18	10.171	38.817	38.83	1.000	1.001	0.46328		0.133	0.463
17	17 OCDF	1.39e4	0.90	NO	0.896	10.171	41.396	41.40	1.000	1.000	9.8251		0.217	9.83
18	18 13C-2,3,7,8-TCDD	7.64e5	0.77	NO	1.06	10.171	26.323	26.32	1.030	1.030	171.85	87.4	0.169	
19	19 13C-1,2,3,7,8-PeCDD	6.68e5	0.63	NO	0.785	10.171	31.157	31.02	1.219	1.214	202.34	103	0.152	
20	20 13C-1,2,3,4,7,8-HxCDD	4.51e5	1.31	NO	0.621	10.171	34.315	34.31	1.014	1.014	189.35	96.3	0.380	
21	21 13C-1,2,3,6,7,8-HxCDD	4.98e5	1.27	NO	0.734	10.171	34.437	34.44	1.017	1.017	176.83	89.9	0.321	
22	22 13C-1,2,3,7,8,9-HxCDD	4.96e5	1.28	NO	0.723	10.171	34.722	34.71	1.026	1.025	178.86	91.0	0.326	
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.05e5	1.05	NO	0.568	10.171	38.219	38.18	1.129	1.128	186.04	94.6	0.834	
24	24 13C-OCDD	5.72e5	0.87	NO	0.496	10.171	41.154	41.09	1.216	1.214	300.67	76.5	0.691	
25	25 13C-2,3,7,8-TCDF	1.04e6	0.77	NO	0.919	10.171	25.623	25.63	1.003	1.003	180.34	91.7	0.227	
26	26 13C-1,2,3,7,8-PeCDF	9.46e5	1.59	NO	0.715	10.171	29.869	29.75	1.169	1.164	210.06	107	0.375	
27	27 13C-2,3,4,7,8-PeCDF	8.87e5	1.57	NO	0.689	10.171	30.955	30.82	1.212	1.206	204.50	104	0.389	
28	28 13C-1,2,3,4,7,8-HxCDF	5.77e5	0.51	NO	0.873	10.171	33.422	33.42	0.987	0.987	172.16	87.6	0.533	
29	29 13C-1,2,3,6,7,8-HxCDF	5.66e5	0.50	NO	0.933	10.171	33.550	33.54	0.991	0.991	157.97	80.3	0.499	
30	30 13C-2,3,4,6,7,8-HxCDF	5.41e5	0.50	NO	0.843	10.171	34.217	34.21	1.011	1.011	167.15	85.0	0.552	
31	31 13C-1,2,3,7,8,9-HxCDF	5.05e5	0.50	NO	0.780	10.171	35.216	35.21	1.040	1.040	168.87	85.9	0.597	

Dataset: U:\VG12.PRO\Results\201220R1\201220R1-7.qld

Last Altered: Wednesday, December 23, 2020 8:17:30 AM Pacific Standard Time

Printed: Wednesday, December 23, 2020 8:17:53 AM Pacific Standard Time

Name: 201220R1_7, Date: 20-Dec-2020, Time: 12:57:15, ID: 2002532-05 USMPDI-002SC-A-04-05-201111 15.08, Description: USMPDI-002SC-A-04-05-201111

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.74e5	0.43	NO	0.726	10.171	36.790	36.76	1.087	1.086	134.11	68.2	0.564	
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.19e5	0.42	NO	0.491	10.171	38.798	38.81	1.146	1.146	169.52	86.2	0.835	
34	34 13C-OCDF	6.23e5	0.87	NO	0.565	10.171	41.371	41.39	1.222	1.223	287.13	73.0	0.637	
35	35 37Cl-2,3,7,8-TCDD	3.51e5			1.22	10.171	26.318	26.33	1.030	1.031	68.616	87.2	0.0661	
36	36 13C-1,2,3,4-TCDD	8.28e5	0.78	NO	1.00	10.171	25.640	25.55	1.000	1.000	196.63	100	0.178	
37	37 13C-1,2,3,4-TCDF	1.24e6	0.79	NO	1.00	10.171	24.130	24.03	1.000	1.000	196.63	100	0.208	
38	38 13C-1,2,3,4,6,9-HxCDF	7.54e5	0.51	NO	1.00	10.171	33.920	33.85	1.000	1.000	196.63	100	0.466	
39	39 Total Tetra-Dioxins				0.980	10.171	24.620		0.000		0.41888		0.0573	0.783
40	40 Total Penta-Dioxins				0.932	10.171	29.960		0.000		0.13200		0.0812	1.44
41	41 Total Hexa-Dioxins				0.902	10.171	33.635		0.000		11.848		0.171	11.8
42	42 Total Hepta-Dioxins				0.918	10.171	37.640		0.000		105.90		0.715	106
43	43 Total Tetra-Furans				0.848	10.171	23.610		0.000		4.7316		0.0838	4.88
44	44 1st Func. Penta-Furans				0.960	10.171	26.930		0.000		3.2089		0.0252	3.21
45	45 Total Penta-Furans				0.960	10.171	29.275		0.000		4.0731		0.0693	4.07
46	46 Total Hexa-Furans				1.02	10.171	33.555		0.000		19.533		0.112	19.5
47	47 Total Hepta-Furans				1.05	10.171	37.835		0.000		32.437		0.155	32.4

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Dataset: U:\VG12.PRO\Results\201220R1\201220R1-7.qld

Last Altered: Wednesday, December 23, 2020 8:17:30 AM Pacific Standard Time

Printed: Wednesday, December 23, 2020 8:17:53 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

Name: 201220R1_7, Date: 20-Dec-2020, Time: 12:57:15, ID: 2002532-05 USMPDI-002SC-A-04-05-201111 15.08, Description: USMPDI-002SC-A-04-05-201111

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.50	7.387e3	6.864e3	5.909e2	6.258e2	0.94	YES	0.000e0	0.00000	0.29092	0.0573
2	Total Tetra-Dioxins	22.83	4.213e3	3.160e3	2.593e2	2.985e2	0.87	NO	5.578e2	0.14652	0.14652	0.0573
3	Total Tetra-Dioxins	24.24	4.865e3	5.102e3	2.263e2	3.232e2	0.70	NO	5.495e2	0.14434	0.14434	0.0573
4	Total Tetra-Dioxins	26.07	2.856e3	3.047e3	2.249e2	2.625e2	0.86	NO	4.874e2	0.12801	0.12801	0.0573
5	2,3,7,8-TCDD	26.33	2.674e3	9.340e3	1.208e2	5.046e2	0.24	YES	6.254e2	0.00000	0.072925	0.0573

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.76	8.287e3	1.268e4	5.868e2	8.264e2	0.71	NO	0.000e0	0.00000	0.44616	0.0812
2	Total Penta-Dioxins	29.24	4.898e3	7.677e3	1.502e2	2.679e2	0.56	NO	4.181e2	0.13200	0.13200	0.0812
3	Total Penta-Dioxins	29.77	9.075e3	8.794e3	5.688e2	5.927e2	0.96	YES	0.000e0	0.00000	0.30501	0.0812
4	Total Penta-Dioxins	29.95	5.402e3	6.792e3	1.809e2	2.995e2	0.60	NO	0.000e0	0.00000	0.15166	0.0812
5	Total Penta-Dioxins	29.99	3.498e3	4.916e3	1.553e2	2.285e2	0.68	NO	0.000e0	0.00000	0.12119	0.0812
6	Total Penta-Dioxins	30.23	3.947e3	3.630e3	2.359e2	2.930e2	0.81	YES	0.000e0	0.00000	0.15076	0.0812
7	1,2,3,7,8-PeCDD	31.03	5.345e3	5.757e3	2.129e2	2.545e2	0.84	YES	4.674e2	0.00000	0.13094	0.0812

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.69	8.431e4	6.752e4	4.140e3	3.432e3	1.21	NO	7.572e3	3.4264	3.4264	0.171
2	Total Hexa-Dioxins	33.30	1.227e4	8.101e3	6.052e2	4.759e2	1.27	NO	1.081e3	0.48921	0.48921	0.171
3	Total Hexa-Dioxins	33.58	8.562e4	7.332e4	5.622e3	4.595e3	1.22	NO	1.022e4	4.6234	4.6234	0.171
4	Total Hexa-Dioxins	33.66	8.246e3	4.401e3	3.269e2	2.554e2	1.28	NO	5.823e2	0.26350	0.26350	0.171
5	1,2,3,4,7,8-HxCDD	34.33	6.507e3	5.031e3	2.662e2	2.040e2	1.30	NO	4.703e2	0.20108	0.20108	0.157
6	1,2,3,6,7,8-HxCDD	34.45	4.650e4	3.668e4	2.679e3	2.222e3	1.21	NO	4.901e3	2.1449	2.1449	0.166
7	Total Hexa-Dioxins	34.63	4.229e3	3.111e3	1.918e2	1.450e2	1.32	NO	3.368e2	0.15243	0.15243	0.171
8	1,2,3,7,8,9-HxCDD	34.71	1.207e4	9.366e3	7.217e2	5.941e2	1.21	NO	1.316e3	0.54693	0.54693	0.161

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Dataset: U:\VG12.PRO\Results\201220R1\201220R1-7.qld

Last Altered: Wednesday, December 23, 2020 8:17:30 AM Pacific Standard Time

Printed: Wednesday, December 23, 2020 8:17:53 AM Pacific Standard Time

Name: 201220R1_7, Date: 20-Dec-2020, Time: 12:57:15, ID: 2002532-05 USMPDI-002SC-A-04-05-201111 15.08, Description: USMPDI-002SC-A-04-05-201111

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.16	6.152e5	6.184e5	4.500e4	4.615e4	0.97	NO	9.115e4	48.191	48.191	0.715
2	1,2,3,4,6,7,8-HpCDD	38.19	8.940e5	8.843e5	5.494e4	5.422e4	1.01	NO	1.092e5	57.709	57.709	0.715

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.79	4.009e3	8.521e3	2.854e2	4.263e2	0.67	NO	7.117e2	0.15804	0.15804	0.0838
2	Total Tetra-Furans	21.57	1.665e4	2.509e4	1.746e3	2.243e3	0.78	NO	3.989e3	0.88588	0.88588	0.0838
3	Total Tetra-Furans	22.55	8.429e3	1.450e4	9.525e2	1.266e3	0.75	NO	2.219e3	0.49273	0.49273	0.0838
4	Total Tetra-Furans	23.02	9.615e3	1.264e4	7.614e2	9.807e2	0.78	NO	1.742e3	0.38688	0.38688	0.0838
5	Total Tetra-Furans	23.11	1.660e3	2.661e3	1.165e2	1.645e2	0.71	NO	2.810e2	0.062404	0.062404	0.0838
6	Total Tetra-Furans	23.36	2.784e3	2.679e3	2.092e2	2.495e2	0.84	NO	0.000e0	0.00000	0.10186	0.0838
7	Total Tetra-Furans	23.84	2.191e3	2.615e3	1.295e2	1.504e2	0.86	NO	2.799e2	0.062153	0.062153	0.0838
8	Total Tetra-Furans	23.91	2.331e3	2.594e3	1.618e2	2.070e2	0.78	NO	3.688e2	0.081904	0.081904	0.0838
9	Total Tetra-Furans	24.09	5.473e3	6.792e3	2.710e2	3.236e2	0.84	NO	5.946e2	0.13203	0.13203	0.0838
10	Total Tetra-Furans	24.18	1.192e4	1.604e4	9.743e2	1.472e3	0.66	NO	2.446e3	0.54317	0.54317	0.0838
11	Total Tetra-Furans	24.63	1.419e4	1.987e4	9.804e2	1.455e3	0.67	NO	2.436e3	0.54092	0.54092	0.0838
12	Total Tetra-Furans	24.94	1.934e3	3.848e3	1.373e2	2.058e2	0.67	NO	3.431e2	0.076181	0.076181	0.0838
13	Total Tetra-Furans	25.08	2.125e3	2.378e3	1.143e2	1.479e2	0.77	NO	2.622e2	0.058220	0.058220	0.0838
14	Total Tetra-Furans	25.36	2.200e3	2.177e3	1.119e2	1.493e2	0.75	NO	2.612e2	0.058014	0.058014	0.0838
15	Total Tetra-Furans	25.51	6.237e3	8.777e3	4.475e2	5.342e2	0.84	NO	9.817e2	0.21801	0.21801	0.0838
16	2,3,7,8-TCDF	25.64	1.699e4	2.585e4	1.105e3	1.658e3	0.67	NO	2.763e3	0.61362	0.61362	0.0838
17	Total Tetra-Furans	25.92	3.107e3	4.308e3	2.935e2	3.439e2	0.85	NO	6.374e2	0.14156	0.14156	0.0838
18	Total Tetra-Furans	26.84	2.744e3	1.868e3	1.080e2	1.120e2	0.96	YES	0.000e0	0.00000	0.044017	0.0838
19	Total Tetra-Furans	26.98	1.377e3	1.694e3	7.164e1	8.857e1	0.81	NO	1.602e2	0.035578	0.035578	0.0838
20	Total Tetra-Furans	27.16	3.848e3	6.606e3	2.364e2	3.452e2	0.68	NO	5.816e2	0.12915	0.12915	0.0838
21	Total Tetra-Furans	27.53	2.203e3	2.050e3	1.151e2	1.333e2	0.86	NO	2.484e2	0.055170	0.055170	0.0838

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	1.464e5	9.263e4	8.768e3	5.590e3	1.57	NO	1.436e4	3.2089	3.2089	0.0252

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Dataset: U:\VG12.PRO\Results\201220R1\201220R1-7.qld

Last Altered: Wednesday, December 23, 2020 8:17:30 AM Pacific Standard Time

Printed: Wednesday, December 23, 2020 8:17:53 AM Pacific Standard Time

Name: 201220R1_7, Date: 20-Dec-2020, Time: 12:57:15, ID: 2002532-05 USMPDI-002SC-A-04-05-201111 15.08, Description: USMPDI-002SC-A-04-05-201111

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	5.655e3	4.010e3	3.728e2	2.617e2	1.42	NO	6.345e2	0.14182	0.14182	0.0693
2	Total Penta-Furans	28.79	5.063e4	3.004e4	3.775e3	2.352e3	1.60	NO	6.127e3	1.3693	1.3693	0.0693
3	Total Penta-Furans	29.42	2.112e4	1.728e4	1.162e3	8.712e2	1.33	NO	2.033e3	0.45447	0.45447	0.0693
4	Total Penta-Furans	29.56	7.895e3	4.870e3	4.118e2	2.531e2	1.63	NO	6.649e2	0.14861	0.14861	0.0693
5	1,2,3,7,8-PeCDF	29.78	3.736e4	2.500e4	2.025e3	1.233e3	1.64	NO	3.258e3	0.70539	0.70539	0.0707
6	Total Penta-Furans	30.04	2.402e4	1.313e4	1.351e3	8.099e2	1.67	NO	2.160e3	0.48287	0.48287	0.0693
7	2,3,4,7,8-PeCDF	30.84	4.072e4	2.897e4	2.200e3	1.511e3	1.46	NO	3.711e3	0.77070	0.77070	0.0610

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.17	8.980e4	7.622e4	4.093e3	3.549e3	1.15	NO	7.641e3	2.6924	2.6924	0.112
2	Total Hexa-Furans	32.34	1.742e5	1.621e5	8.322e3	7.279e3	1.14	NO	1.560e4	5.4969	5.4969	0.112
3	Total Hexa-Furans	32.97	2.522e5	2.119e5	1.250e4	1.068e4	1.17	NO	2.317e4	8.1653	8.1653	0.112
4	1,2,3,4,7,8-HxCDF	33.42	4.469e4	4.278e4	2.444e3	2.084e3	1.17	NO	4.528e3	1.5657	1.5657	0.101
5	1,2,3,6,7,8-HxCDF	33.55	1.633e4	1.325e4	9.367e2	7.264e2	1.29	NO	1.663e3	0.55658	0.55658	0.102
6	2,3,4,6,7,8-HxCDF	34.23	1.615e4	1.515e4	9.981e2	7.581e2	1.32	NO	1.756e3	0.62624	0.62624	0.113
7	1,2,3,7,8,9-HxCDF	35.24	8.558e3	6.371e3	2.700e2	2.186e2	1.24	NO	4.885e2	0.19189	0.19189	0.139
8	Total Hexa-Furans	35.25	9.634e3	7.925e3	3.798e2	2.945e2	1.29	NO	6.743e2	0.23759	0.23759	0.112

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	36.78	1.882e5	1.860e5	1.381e4	1.366e4	1.01	NO	2.747e4	13.779	13.779	0.160
2	Total Hepta-Furans	37.52	2.330e5	2.491e5	1.659e4	1.705e4	0.97	NO	3.364e4	18.195	18.195	0.155
3	1,2,3,4,7,8,9-HpCDF	38.83	8.624e3	7.595e3	4.774e2	4.073e2	1.17	NO	8.847e2	0.46328	0.46328	0.133

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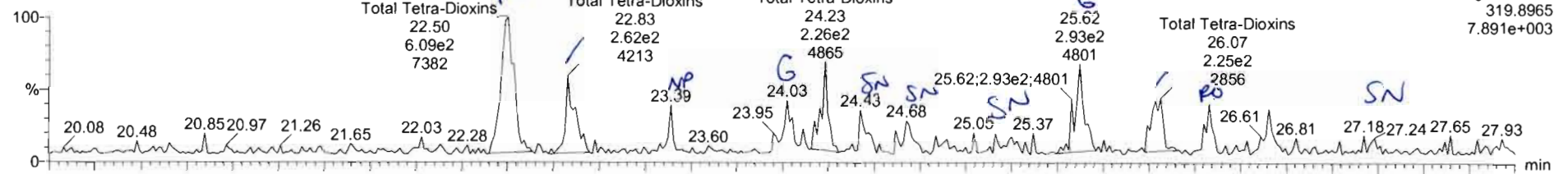
Last Altered: Monday, December 21, 2020 06:50:00 Pacific Standard Time

Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

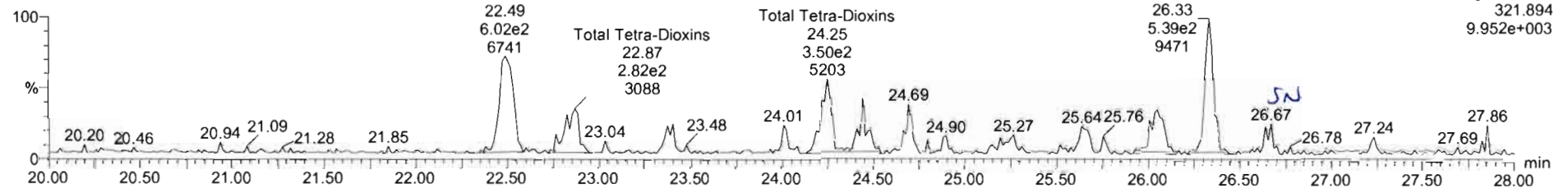
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2,3,7,8-TCDD

201220R1_7

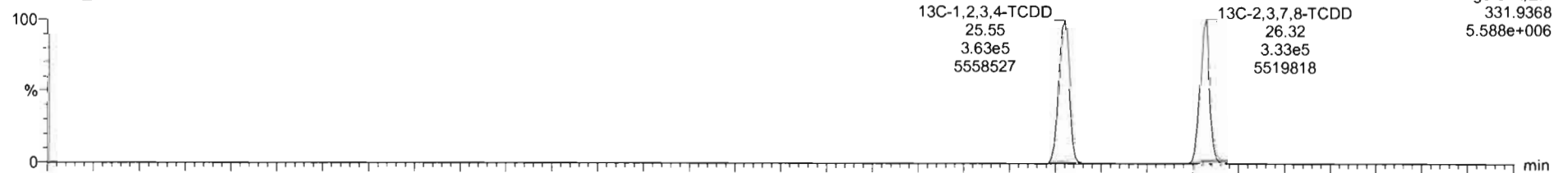


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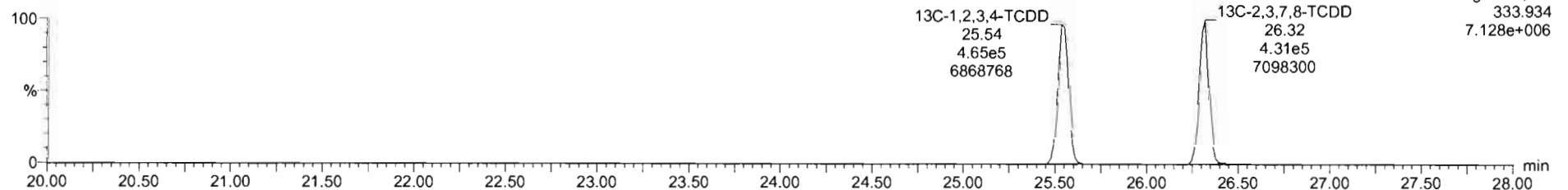


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201220R1_7

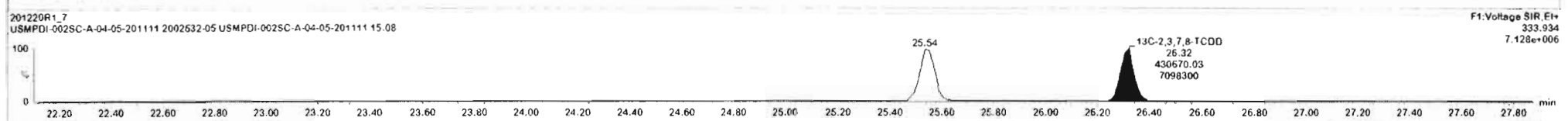
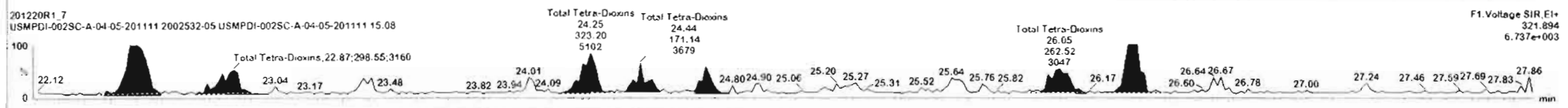
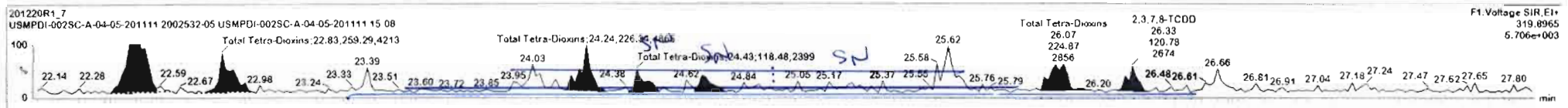


201220R1_7



SI	Name	Resp	RA	ny	RFI	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.6805	10.171			0.437		0.0573	0.928

SI	Name	RT	m1 Resp	m2 Resp	RA	ny	EMPC	Conc.
1	Total Tetra-Dioxins	22.50	5.905e2	5.250e2	0.84	YES	0.23092	0.00000
2	Total Tetra-Dioxins	22.83	2.593e2	2.985e2	0.87	NO	0.14852	0.14852
3	Total Tetra-Dioxins	24.24	2.283e2	3.232e2	0.70	NO	0.14434	0.14434
4	Total Tetra-Dioxins	24.43	1.185e2	1.711e2	0.69	NO	0.076071	0.00000
5	Total Tetra-Dioxins	24.68	1.041e2	1.536e2	0.68	NO	0.067682	0.067682
6	Total Tetra-Dioxins	26.07	2.249e2	2.805e2	0.80	NO	0.12801	0.12801
7	2,3,7,8-TCDD	26.33	1.208e2	5.046e2	0.24	YES	0.072925	0.00000



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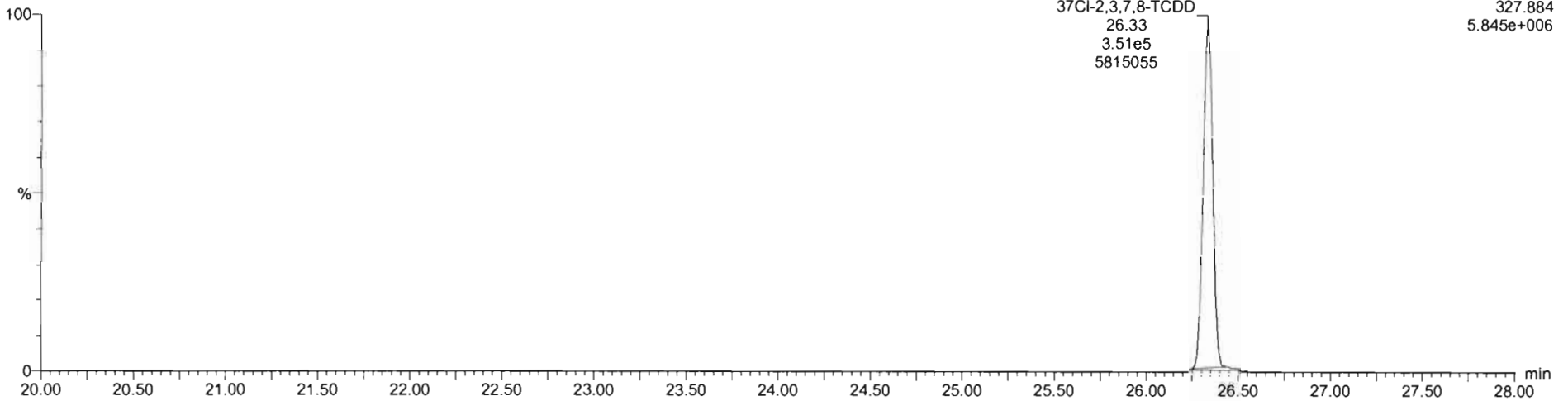
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Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

Name: 201220R1_7, Date: 20-Dec-2020, Time: 12:57:15, ID: 2002532-05 USMPDI-002SC-A-04-05-201111 15.08, Description: USMPDI-002SC-A-04-05-201111

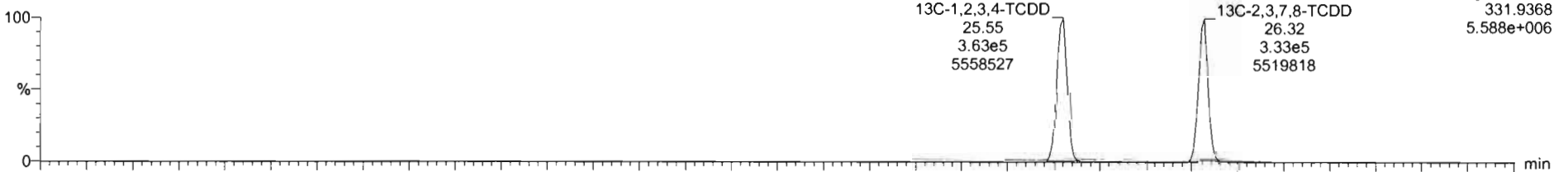
37Cl-2,3,7,8-TCDD

201220R1_7

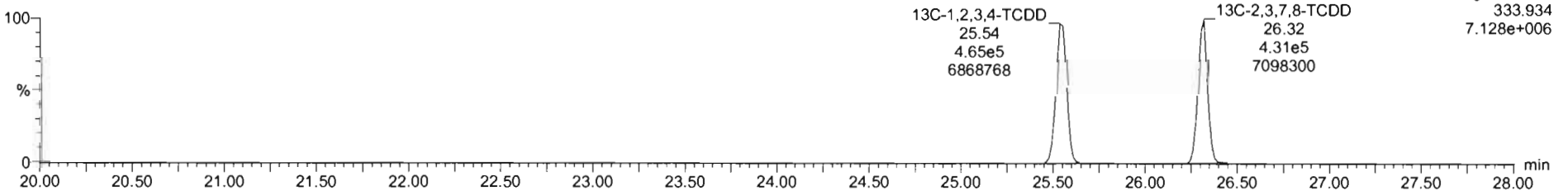


13C-1,2,3,4-TCDD

201220R1_7



201220R1_7



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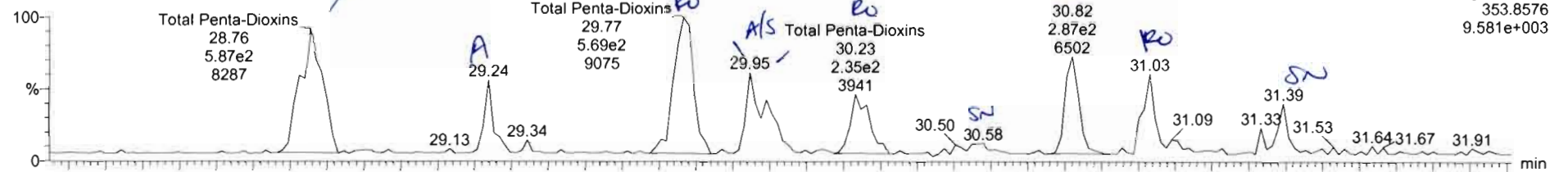
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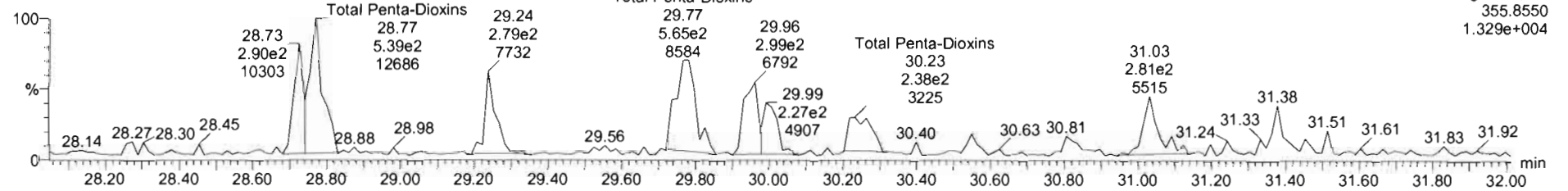
1,2,3,7,8-PeCDD

201220R1_7



F2:Voltage SIR,EI+
353.8576
9.581e+003

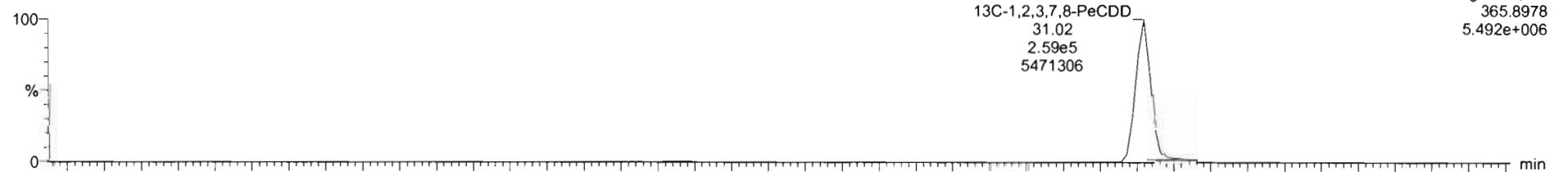
201220R1_7



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1.329e+004

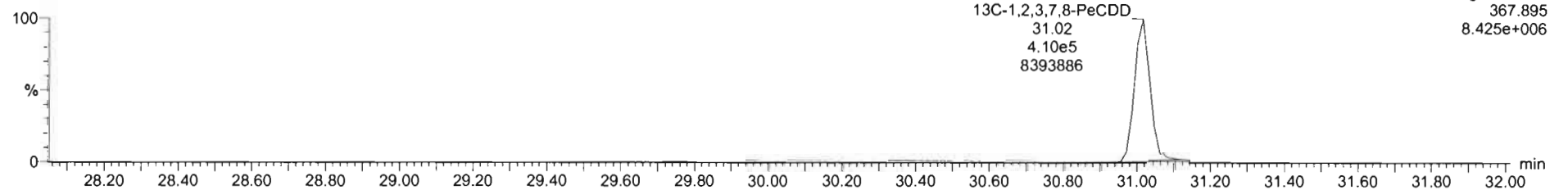
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201220R1_7

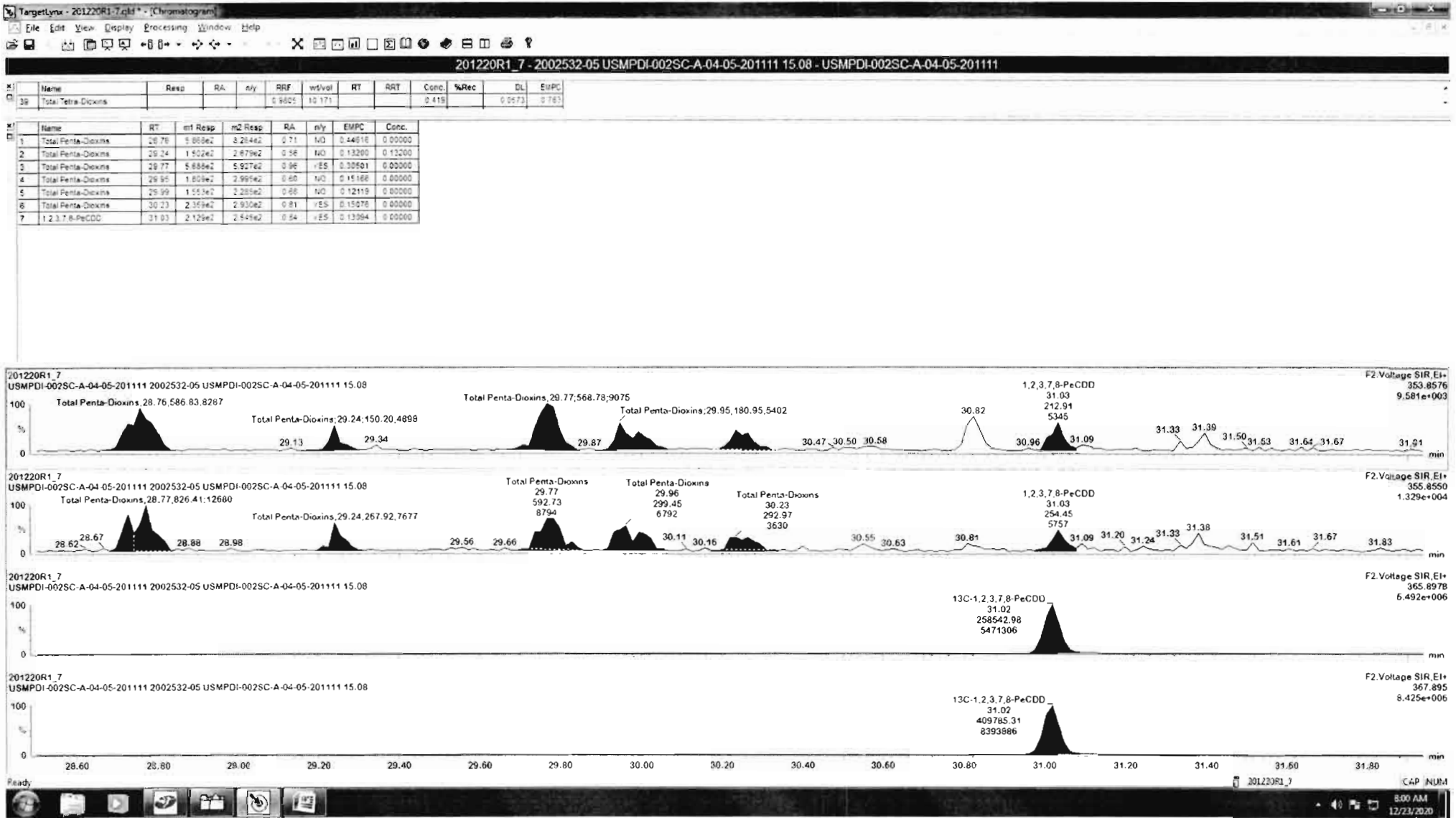


F2:Voltage SIR,EI+
365.8978
5.492e+006

201220R1_7



F2:Voltage SIR,EI+
367.895
8.425e+006



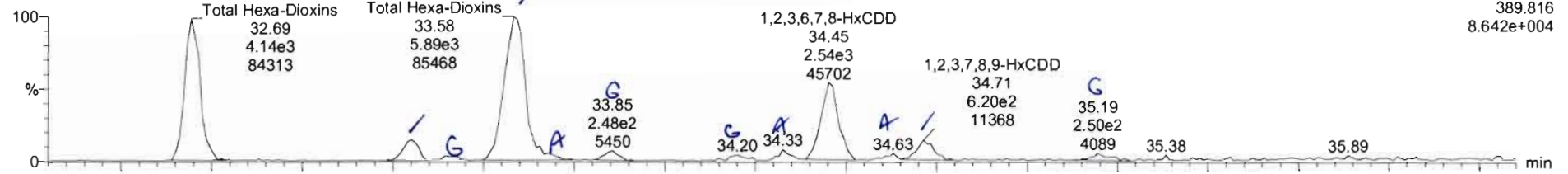
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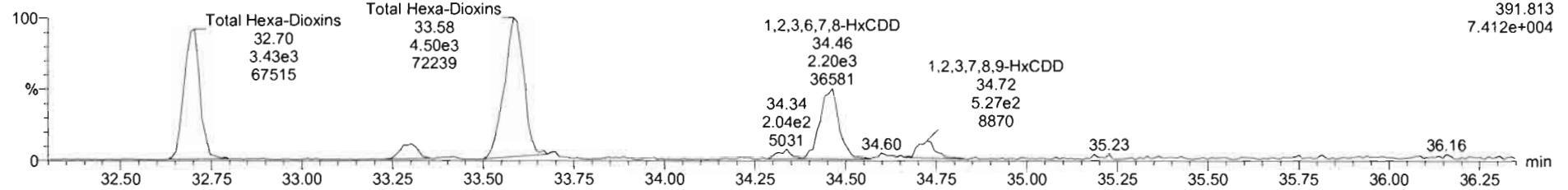
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1,2,3,4,7,8-HxCDD

201220R1_7

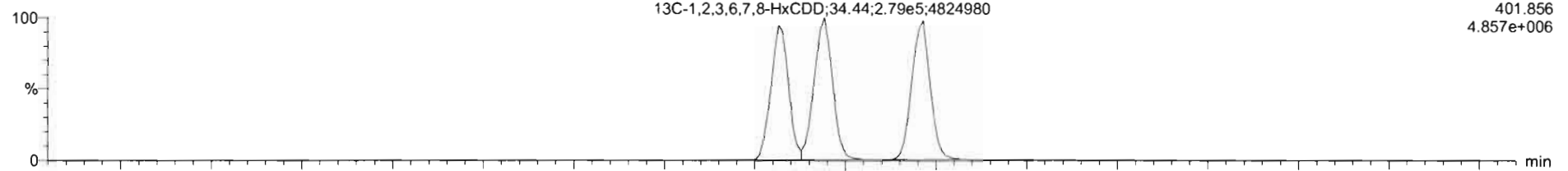


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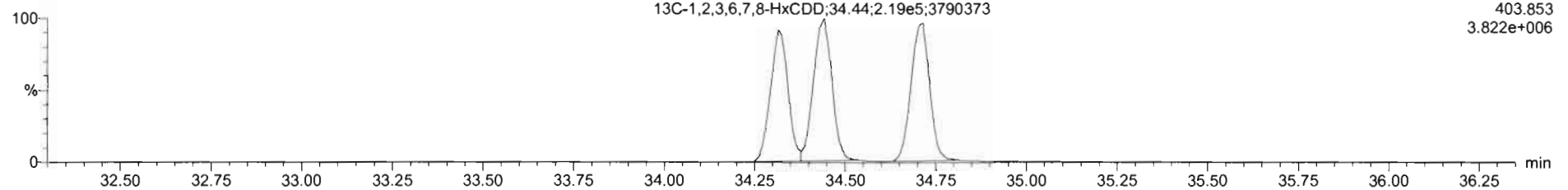


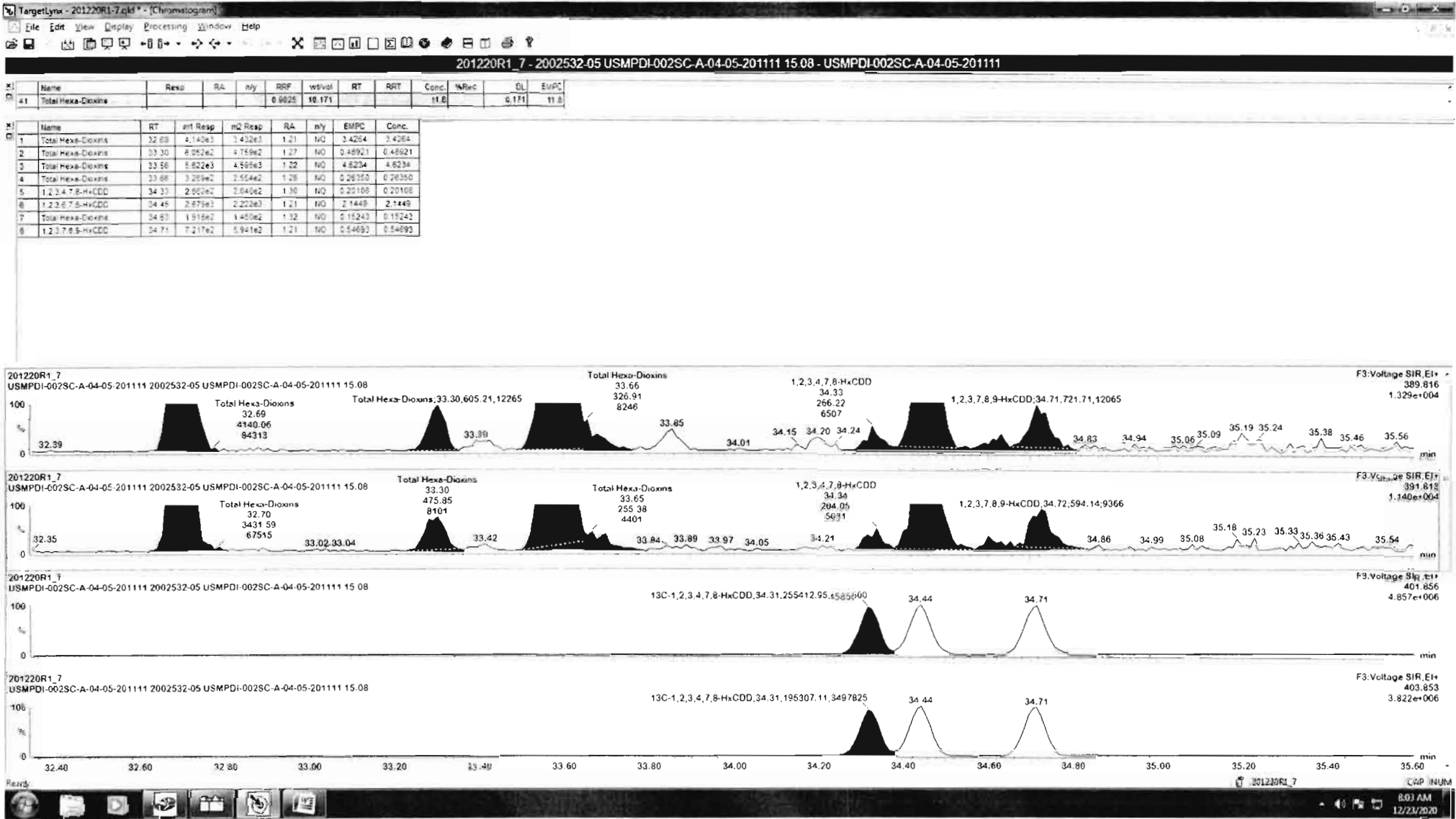
13C-1,2,3,4,7,8-HxCDD

201220R1_7



201220R1_7





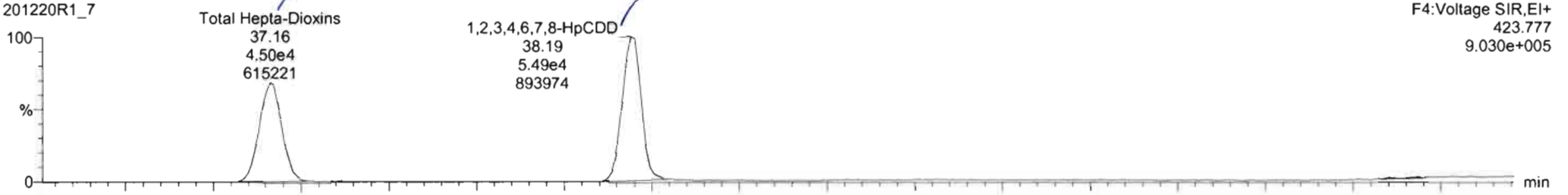
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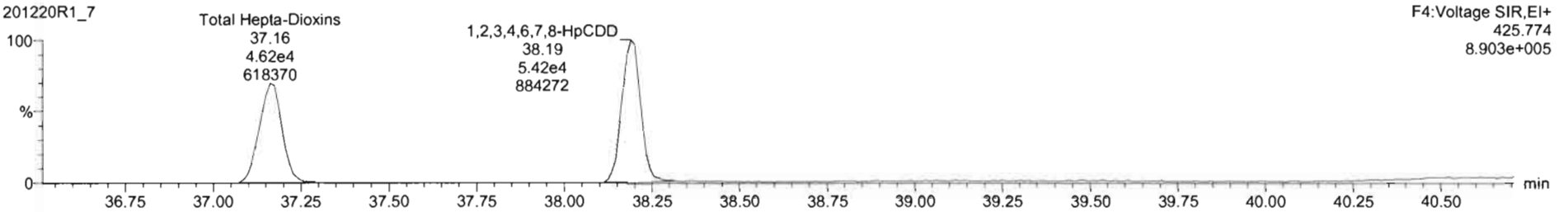
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1,2,3,4,6,7,8-HpCDD

201220R1_7

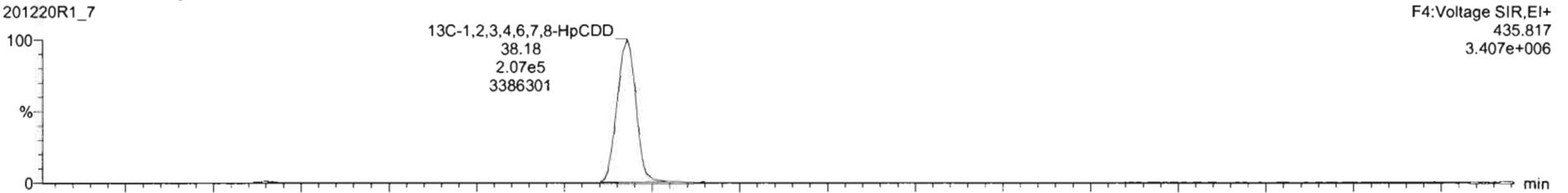


201220R1_7

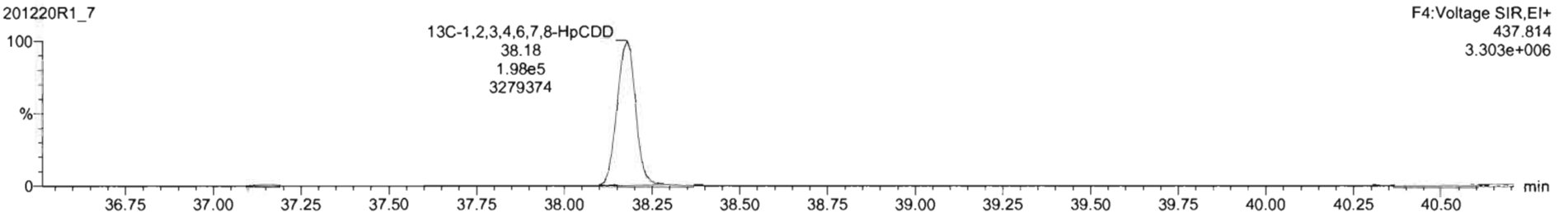


¹³C-1,2,3,4,6,7,8-HpCDD

201220R1_7



201220R1_7

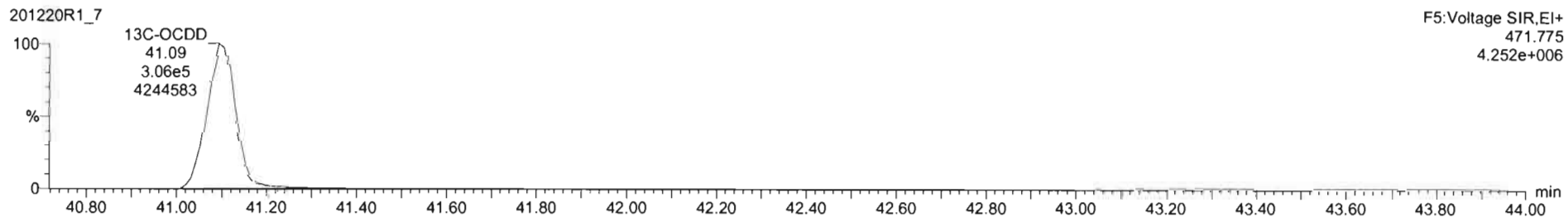
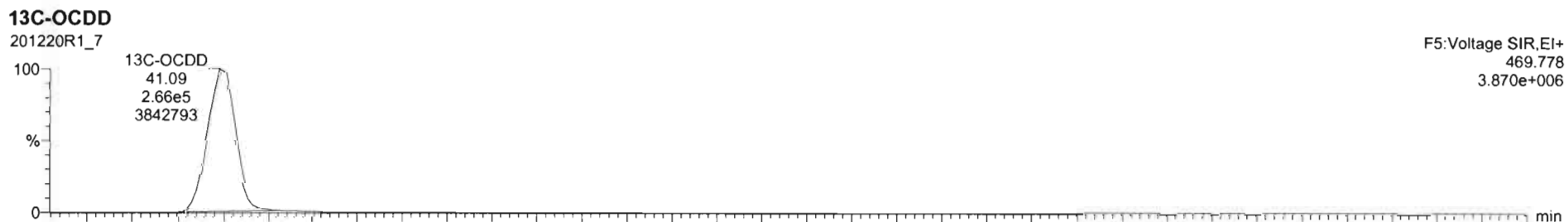
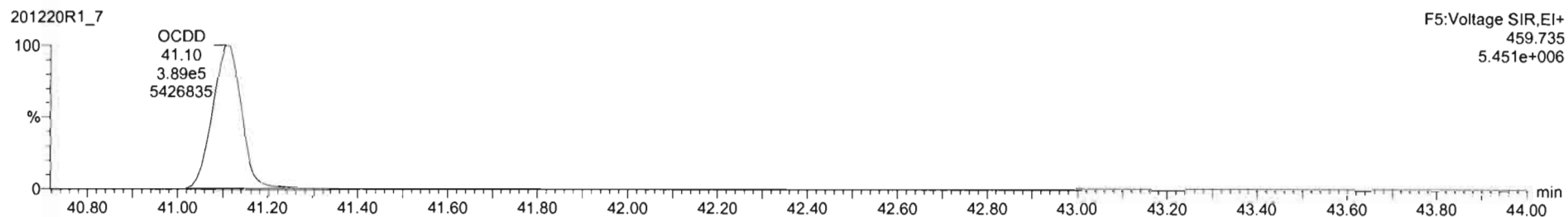
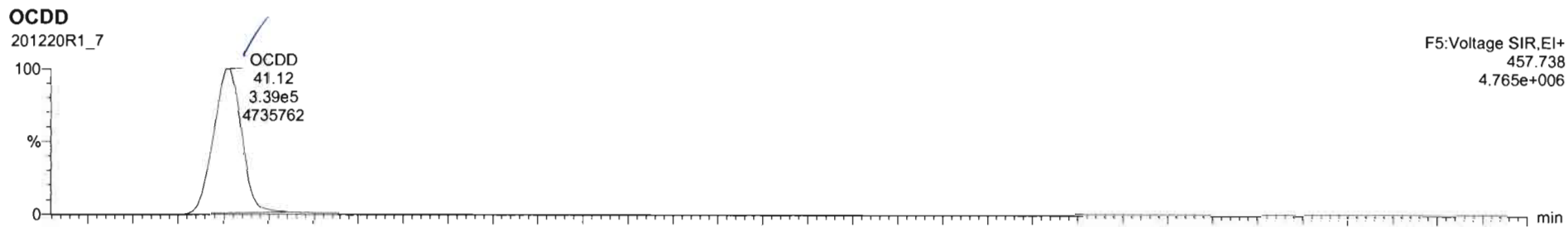


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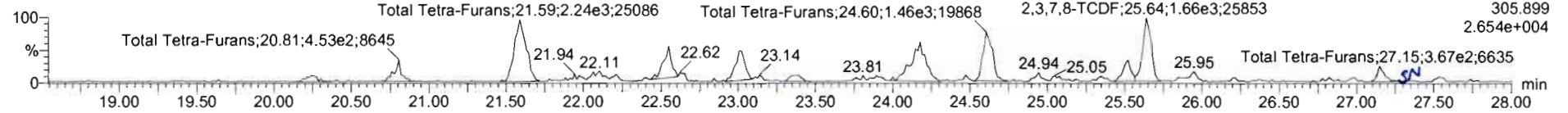
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2,3,7,8-TCDF

201220R1_7

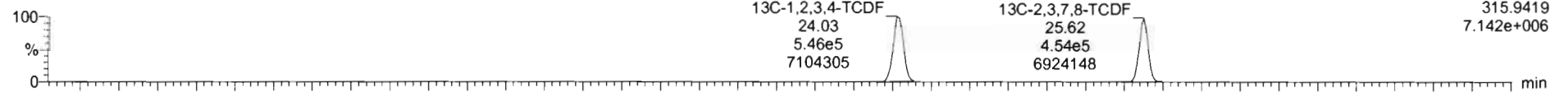


201220R1_7

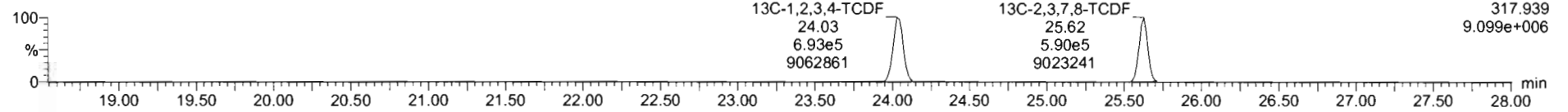


13C-2,3,7,8-TCDF

201220R1_7

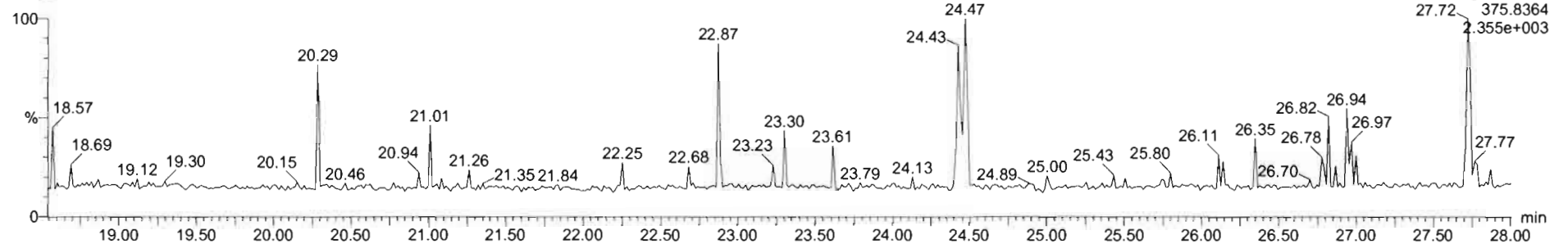


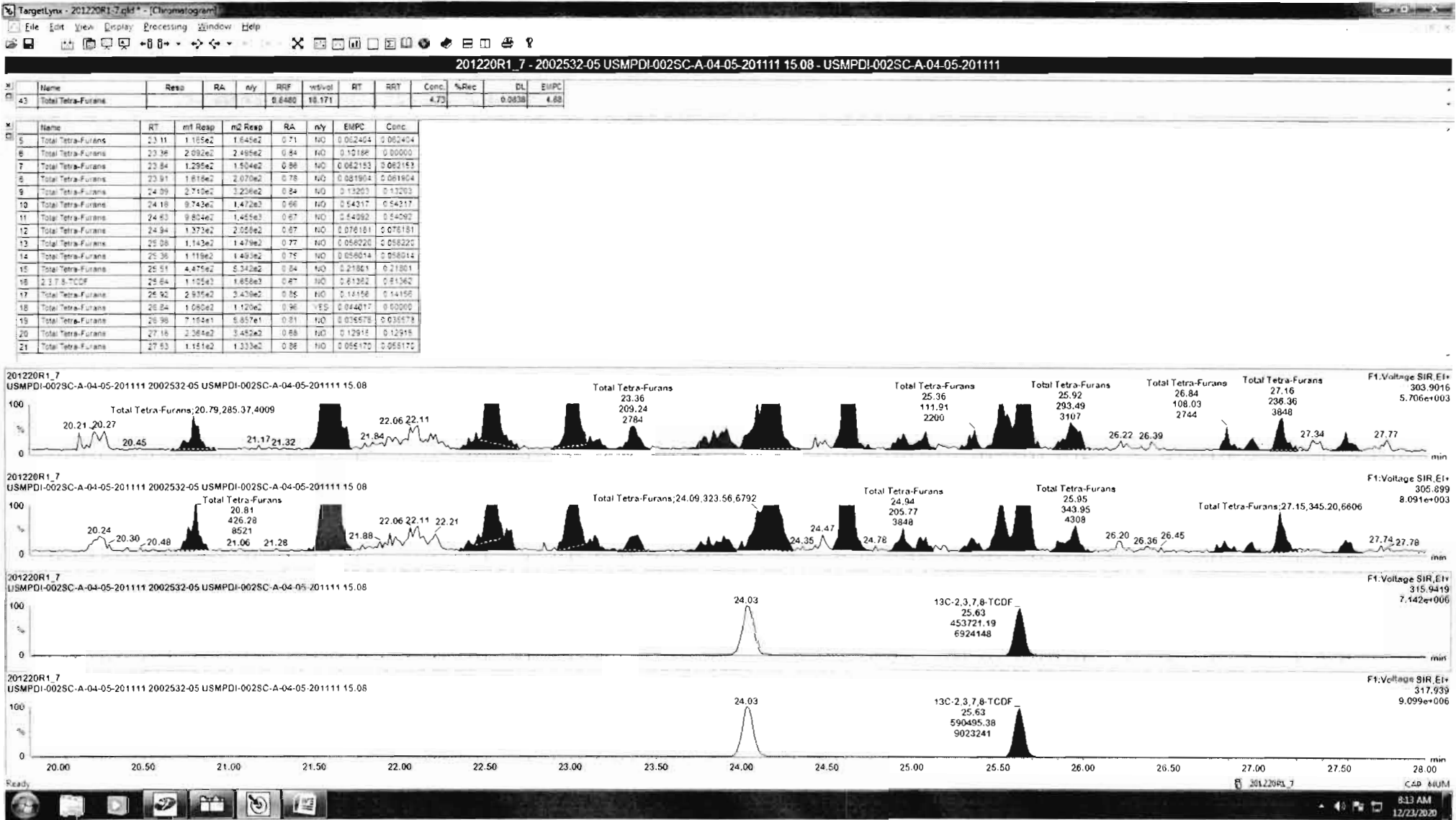
201220R1_7



DPE1

201220R1_7





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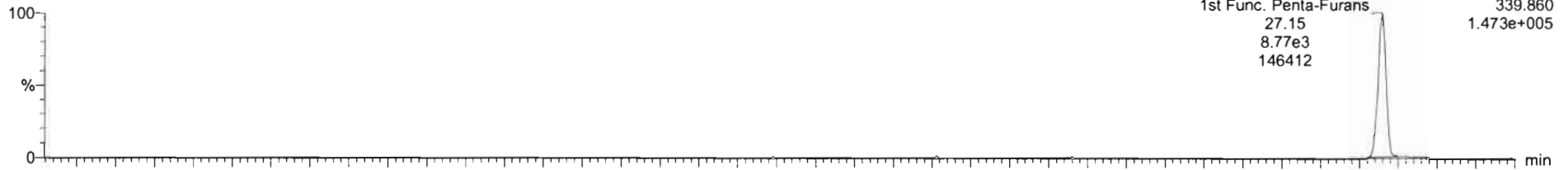
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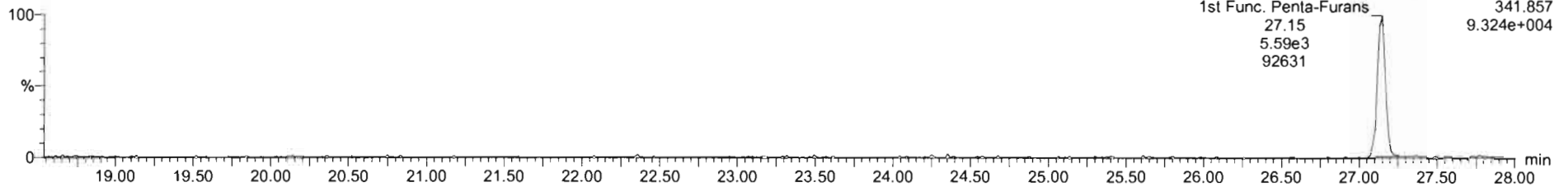
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1st Func. Penta-Furans

201220R1_7

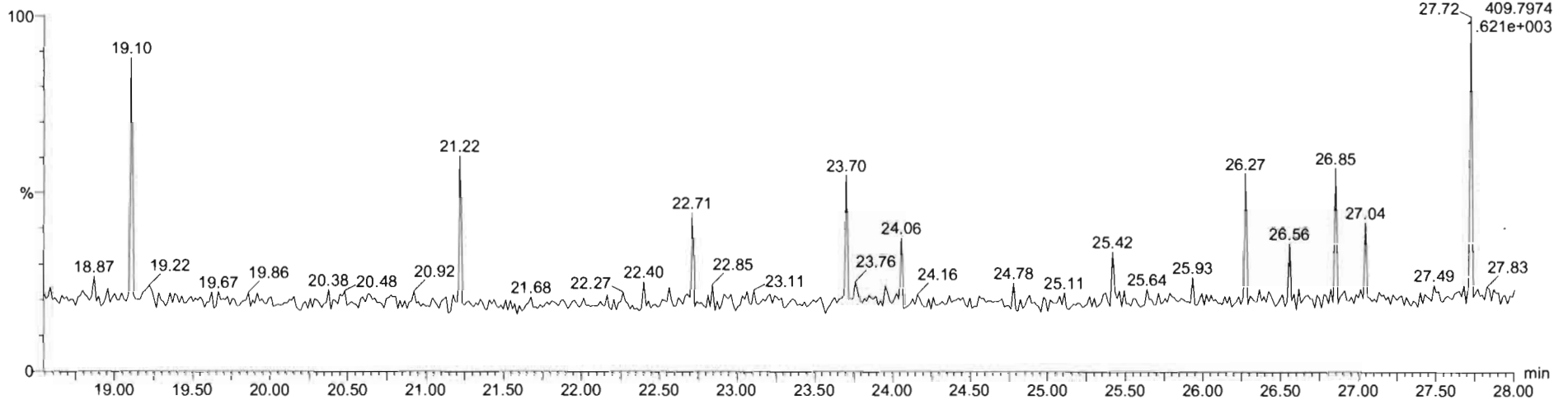


201220R1_7



DPE6

201220R1_7

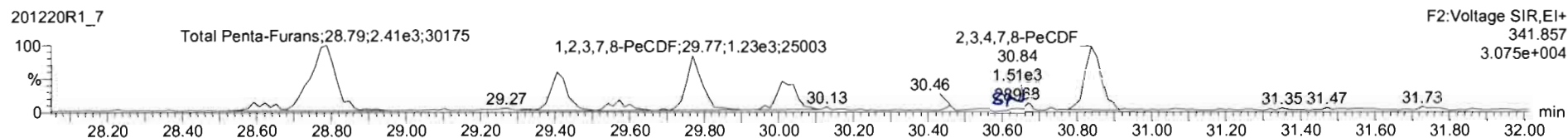
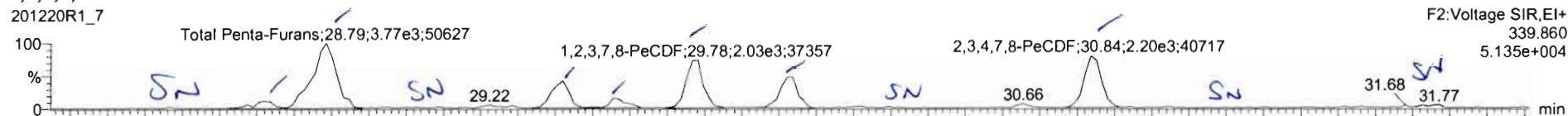


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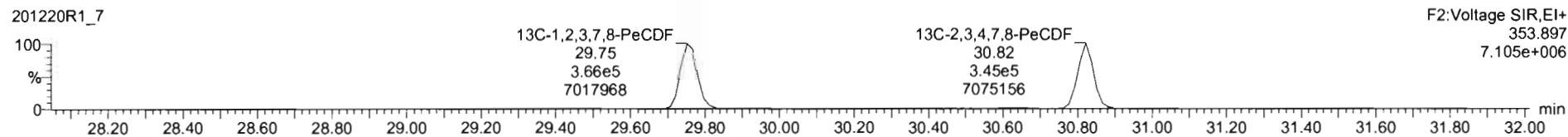
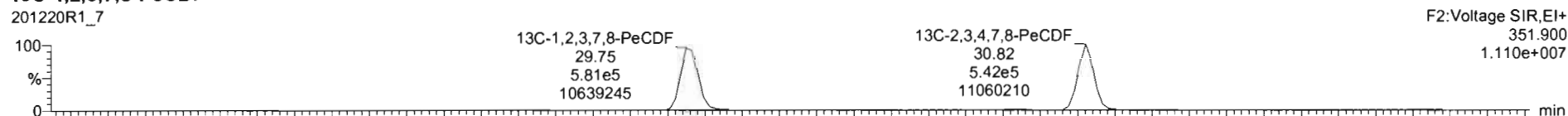
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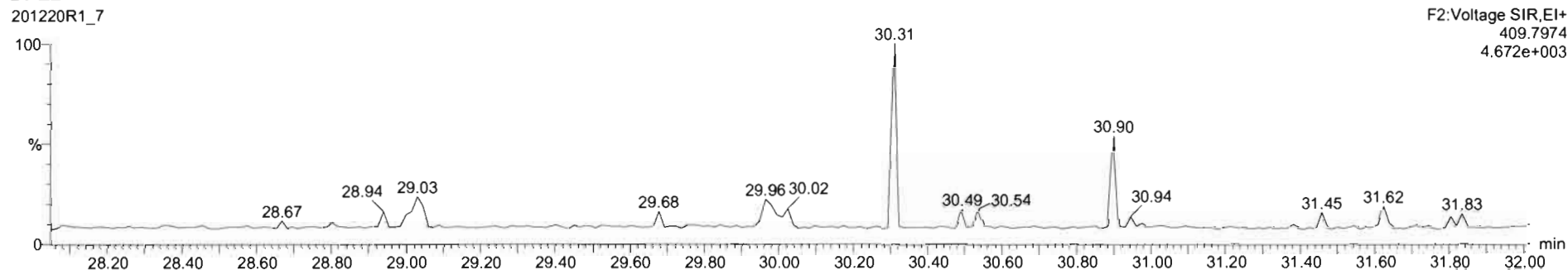
1,2,3,7,8-PeCDF



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

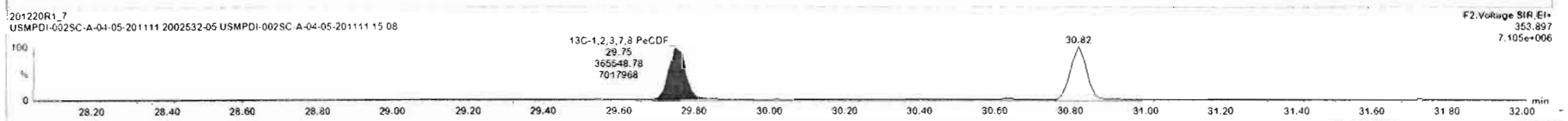
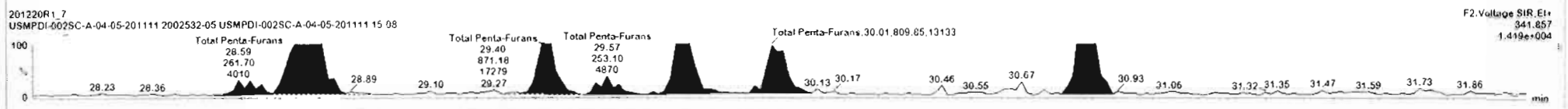
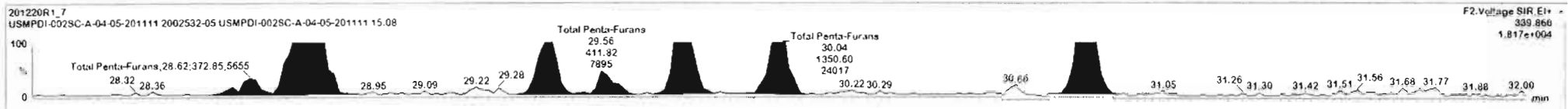


DPE2



#1	Name	Resp	RA	mY	REF	wtVol	RT	SRT	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans				0.9597	10.171			4.07		0.0693	4.07

#1	Name	RT	m1 Resp	m2 Resp	RA	mY	EMPC	Conc.
1	Total Penta-Furans	29.62	3.728e2	2.817e2	1.42	NO	0.14182	0.14182
2	Total Penta-Furans	28.79	3.775e3	2.352e3	1.60	NO	1.3693	1.3693
3	Total Penta-Furans	28.42	1.162e3	8.712e2	1.25	NO	0.45447	0.45447
4	Total Penta-Furans	29.56	4.118e2	2.531e2	1.63	NO	0.14861	0.14861
5	1,2,3,7,8-PeCDF	29.75	2.025e3	1.233e3	1.64	NO	0.70539	0.70539
6	Total Penta-Furans	30.04	1.351e3	3.059e2	1.67	NO	0.48287	0.48287
7	2,3,4,7,8-PeCDF	30.84	2.205e3	1.511e3	1.48	NO	0.77270	0.77270

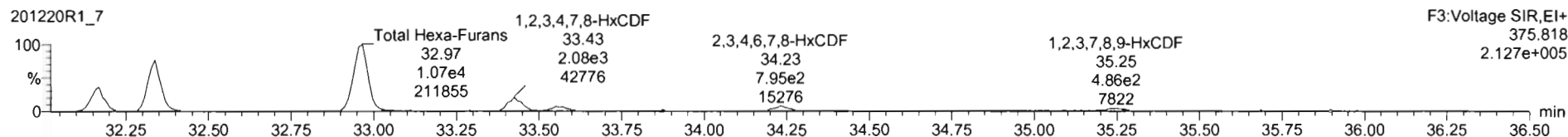
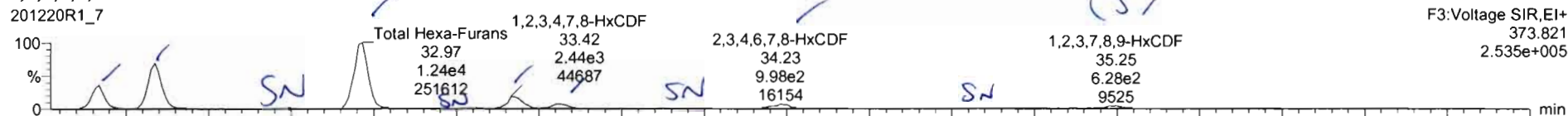


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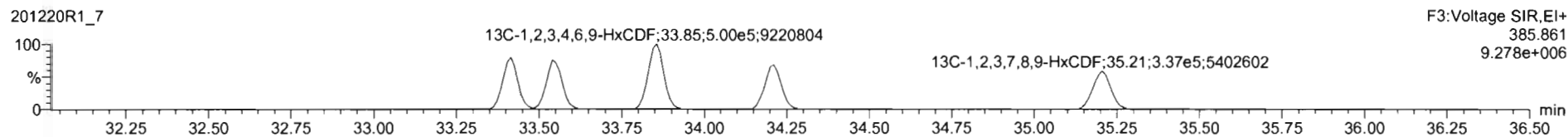
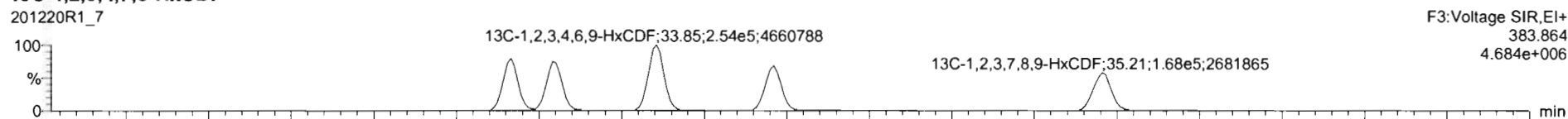
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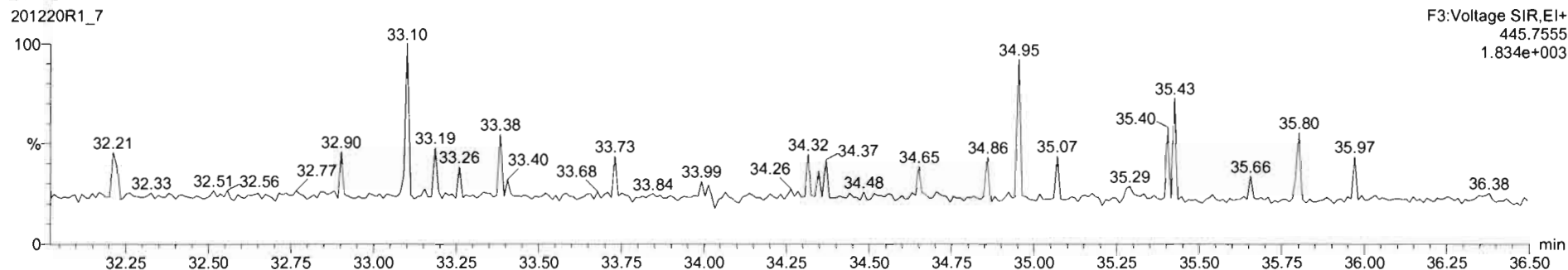
1,2,3,4,7,8-HxCDF

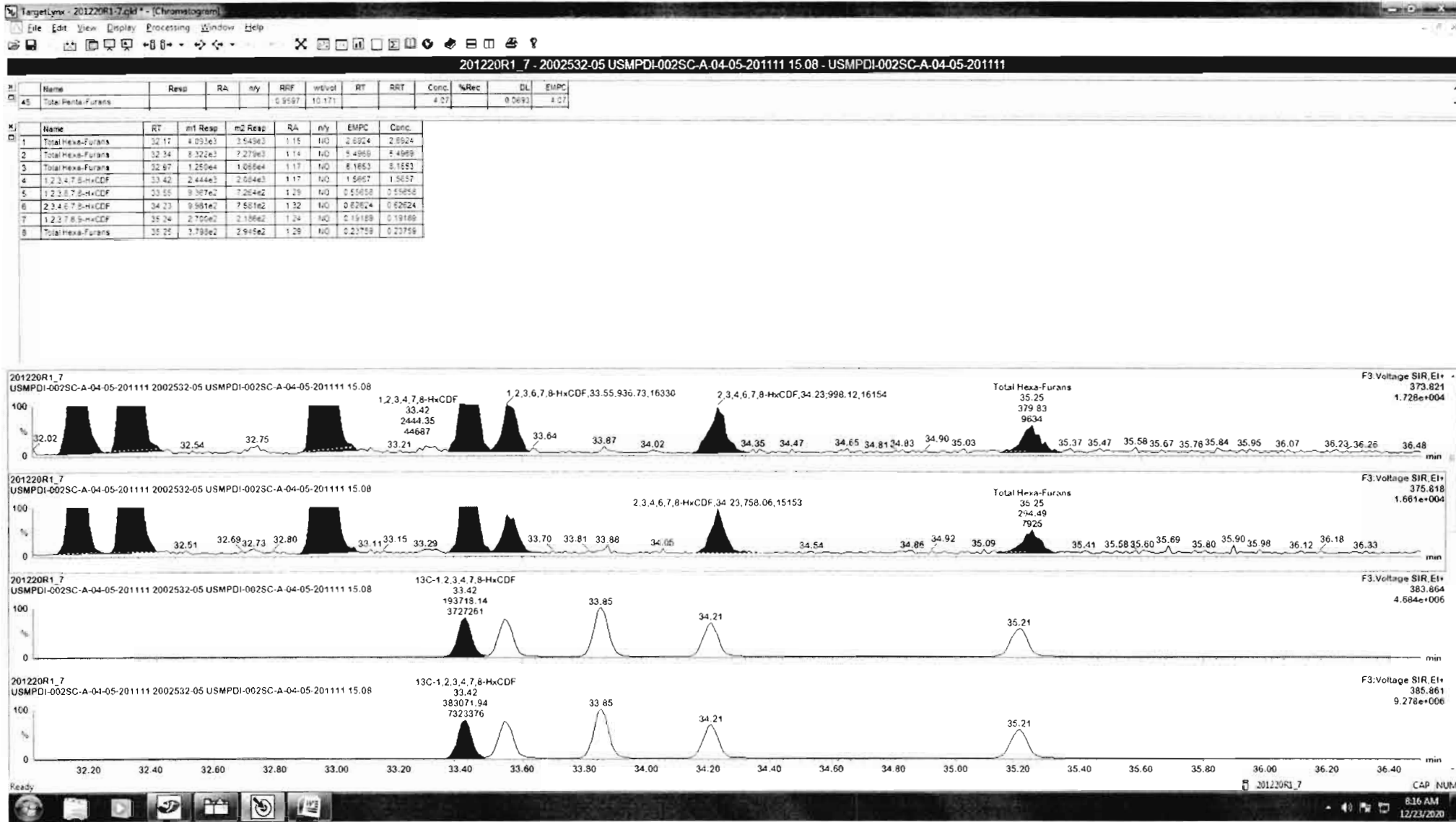


13C-1,2,3,4,7,8-HxCDF



DPE3



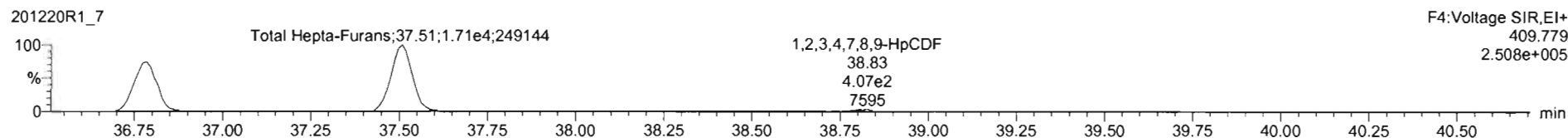
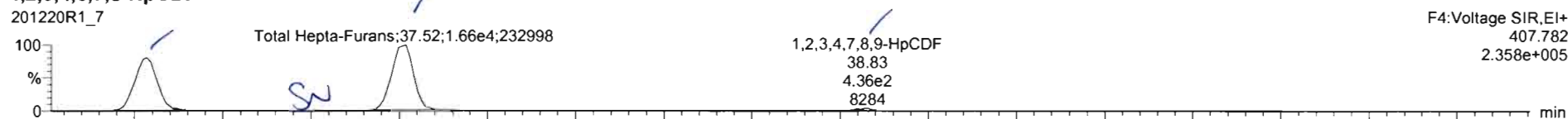


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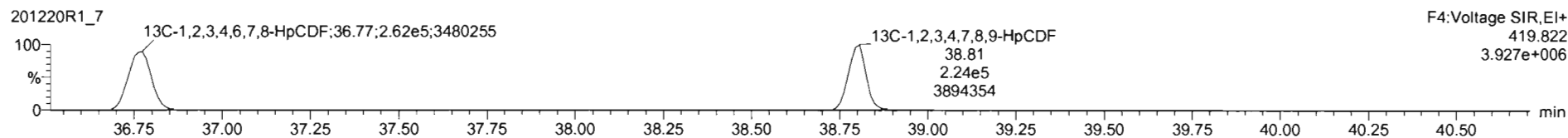
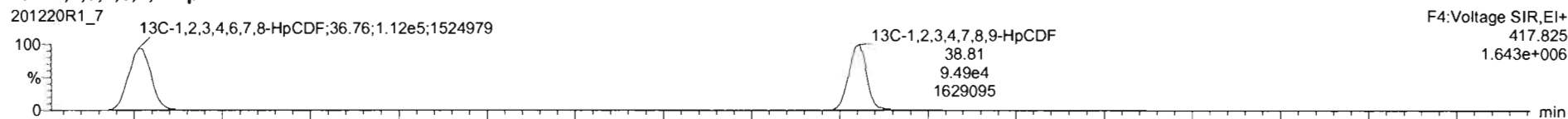
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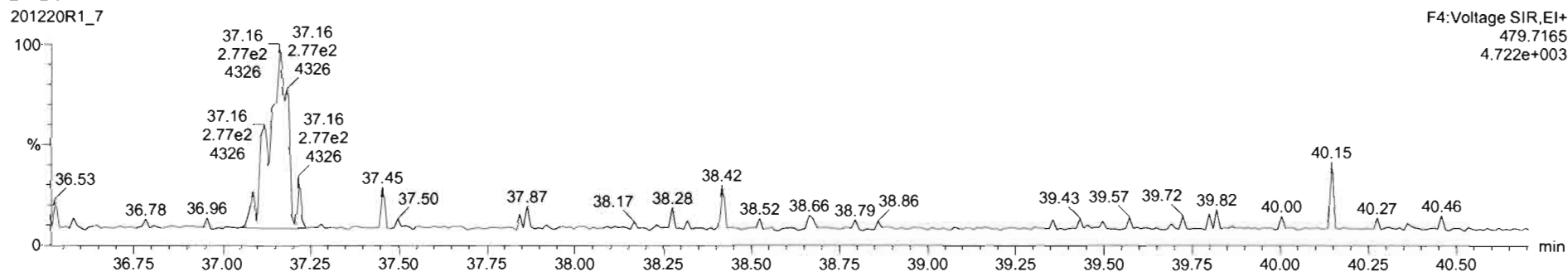
1,2,3,4,6,7,8-HpCDF

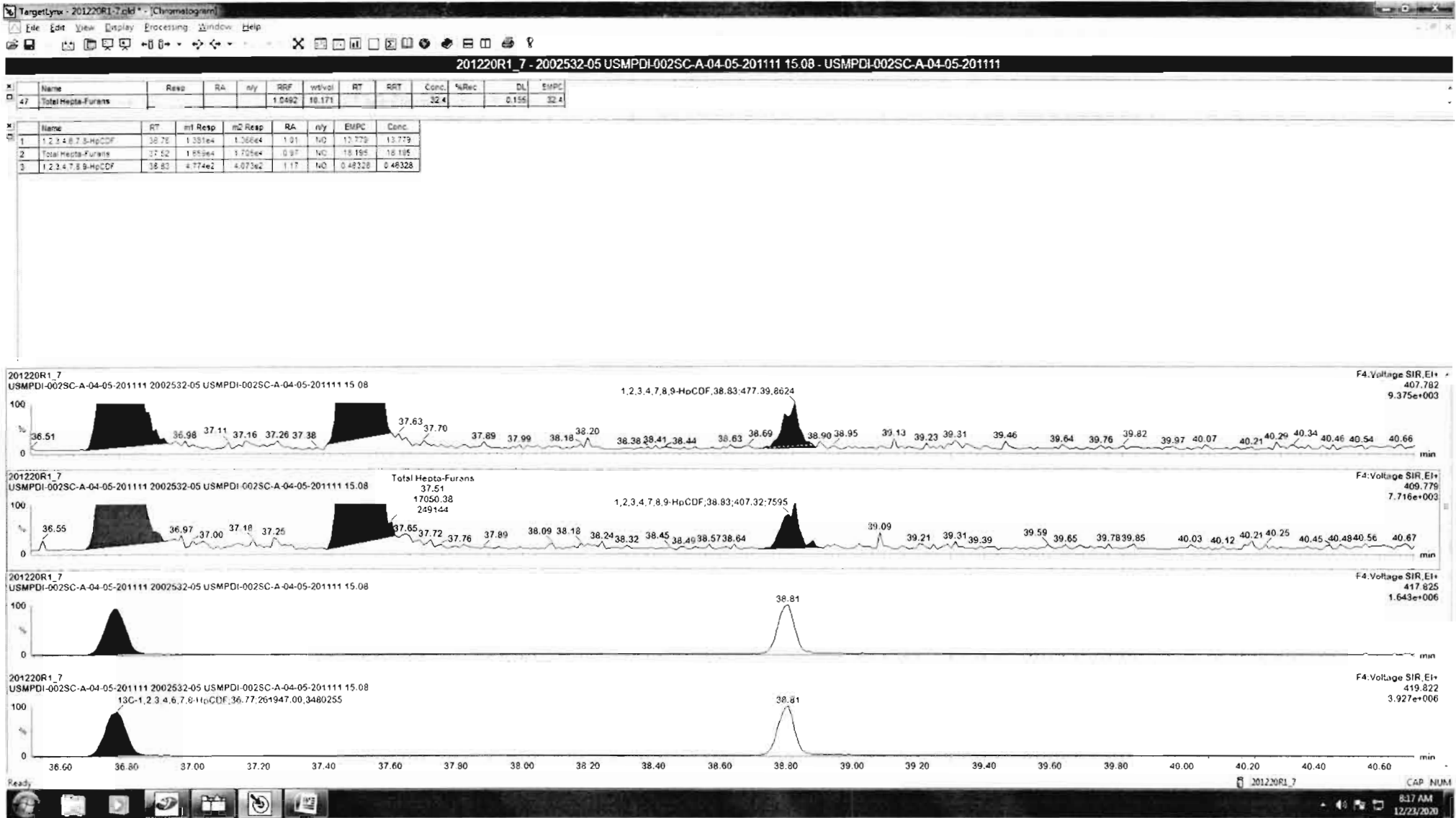


13C-1,2,3,4,6,7,8-HpCDF



DPE4

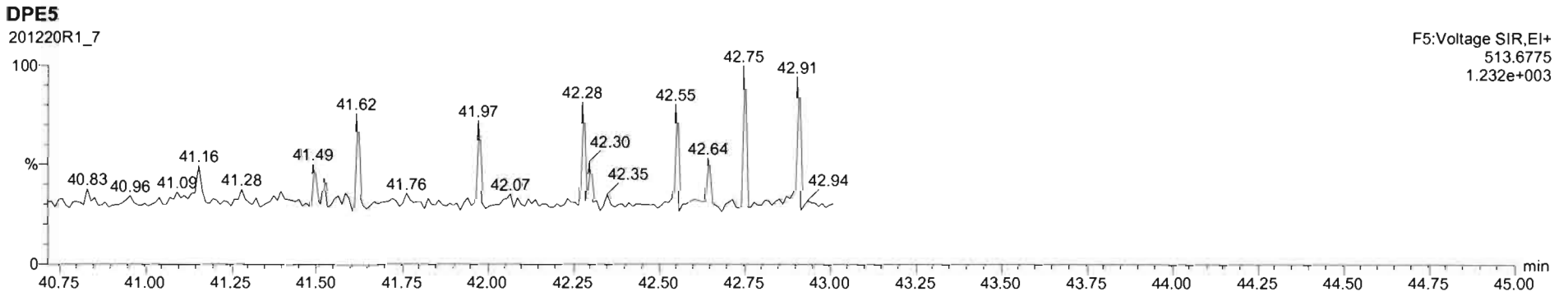
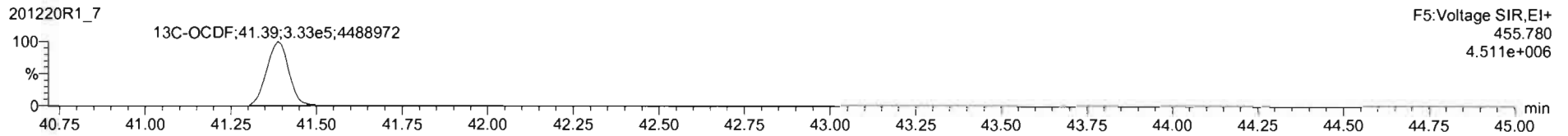
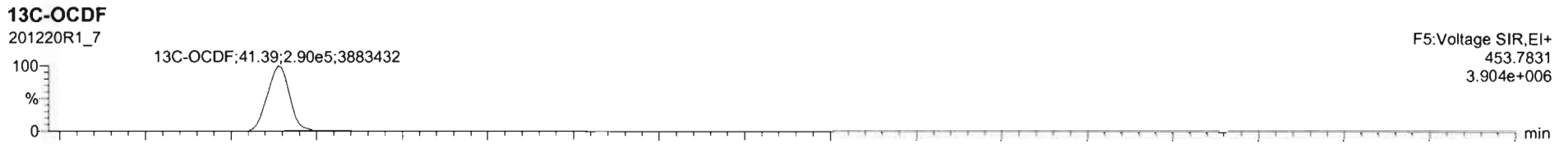
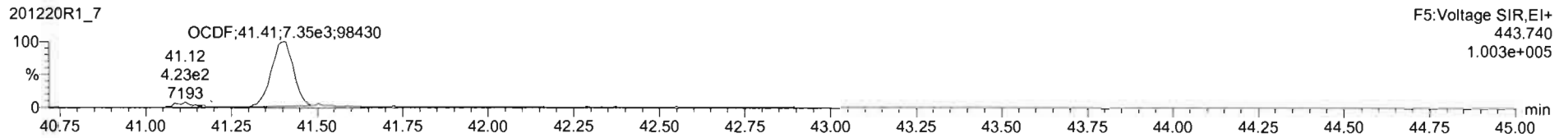
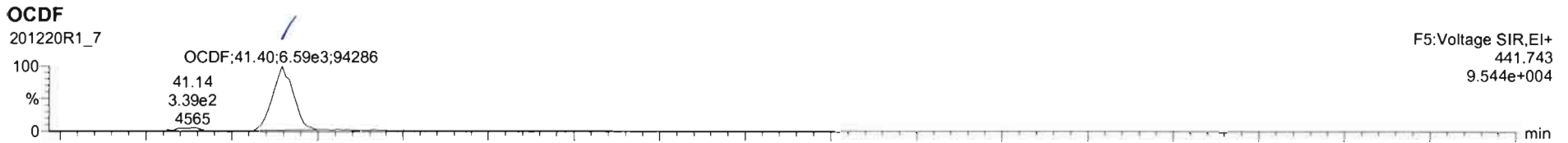




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Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

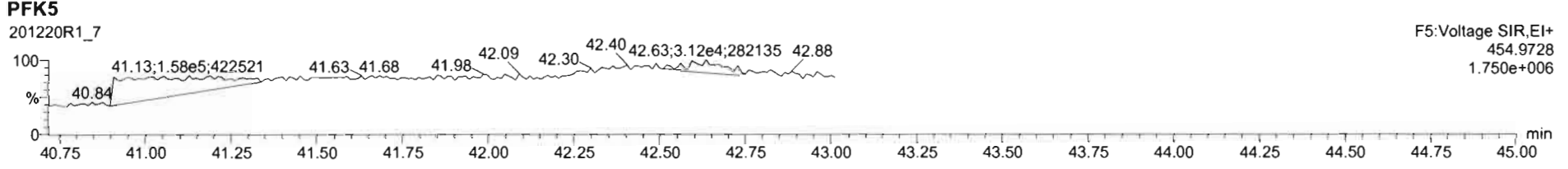
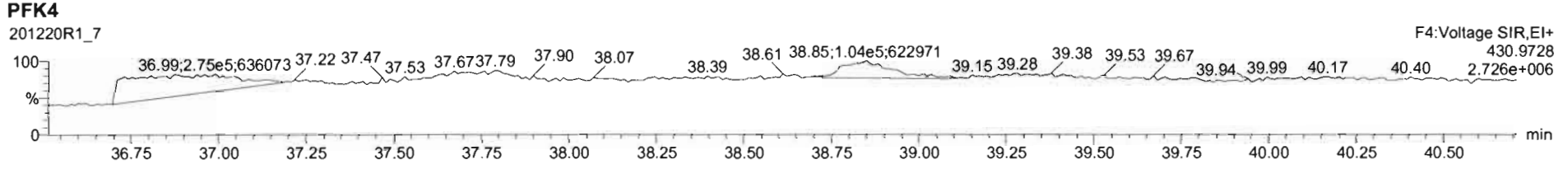
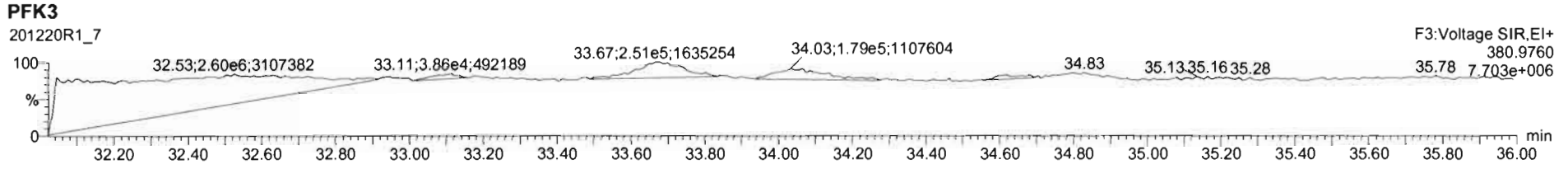
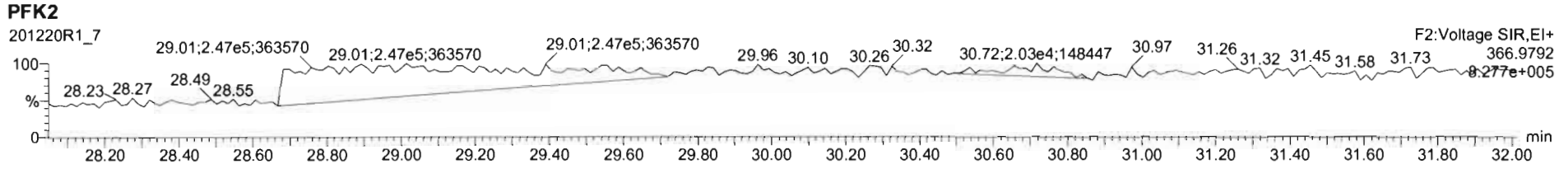
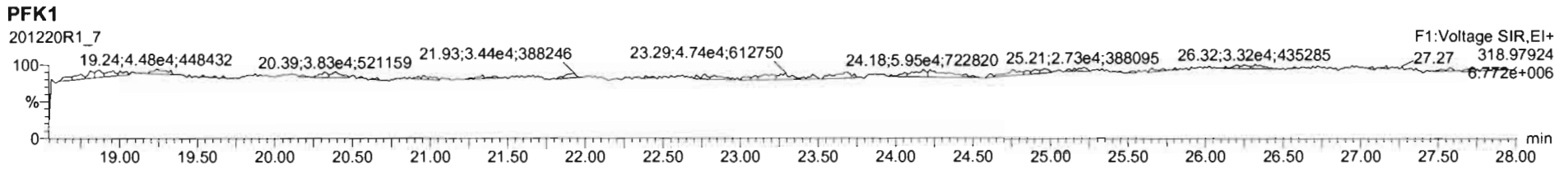
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Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201220R1\201220R1-8.qld

Last Altered: Wednesday, December 23, 2020 9:05:54 AM Pacific Standard Time

Printed: Wednesday, December 23, 2020 9:06:19 AM Pacific Standard Time

GRB 12/23/2020

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

MW 12/23/20

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1	1 2,3,7,8-TCDD			NO	0.980	10.019	26.337		1.001				0.0513	
2	2 1,2,3,7,8-PeCDD	2.53e2	0.59	NO	0.932	10.019	31.034	31.02	1.001	1.000	0.077280		0.0916	0.0773
3	3 1,2,3,4,7,8-HxCDD			NO	1.02	10.019	34.326		1.001				0.0854	
4	4 1,2,3,6,7,8-HxCDD	7.32e2	1.25	NO	0.902	10.019	34.452	34.44	1.001	1.000	0.28949		0.0866	0.289
5	5 1,2,3,7,8,9-HxCDD	4.83e2	1.25	NO	0.954	10.019	34.713	34.70	1.000	1.000	0.18150		0.0872	0.182
6	6 1,2,3,4,6,7,8-HpCDD	1.31e4	1.02	NO	0.918	10.019	38.190	38.19	1.000	1.000	6.2354		0.279	6.24
7	7 OCDD	1.10e5	0.87	NO	0.866	10.019	41.113	41.12	1.000	1.000	73.471		0.231	73.5
8	8 2,3,7,8-TCDF	1.04e3	0.80	NO	0.848	10.019	25.613	25.65	1.000	1.002	0.20850		0.0459	0.209
9	9 1,2,3,7,8-PeCDF	8.56e2	1.36	NO	0.960	10.019	29.754	29.77	1.000	1.001	0.18203		0.0511	0.182
10	10 2,3,4,7,8-PeCDF	8.02e2	1.60	NO	1.07	10.019	30.828	30.82	1.001	1.001	0.15670		0.0458	0.157
11	11 1,2,3,4,7,8-HxCDF	9.71e2	1.06	NO	0.986	10.019	33.415	33.42	1.000	1.000	0.30490		0.0774	0.305
12	12 1,2,3,6,7,8-HxCDF	4.08e2	1.26	NO	1.04	10.019	33.561	33.55	1.001	1.000	0.12509		0.0786	0.125
13	13 2,3,4,6,7,8-HxCDF	3.17e2	1.13	NO	1.02	10.019	34.221	34.22	1.001	1.001	0.10005		0.0835	0.100
14	14 1,2,3,7,8,9-HxCDF	2.86e2	1.12	NO	0.991	10.019	35.217	35.21	1.000	1.000	0.099682		0.103	0.0997
15	15 1,2,3,4,6,7,8-HpCDF	2.93e3	1.00	NO	1.05	10.019	36.781	36.78	1.000	1.001	1.2862		0.0560	1.29
16	16 1,2,3,4,7,8,9-HpCDF	2.16e2	0.84	YES	1.18	10.019	38.806	38.82	1.000	1.001	0.095004		0.0450	0.0848
17	17 OCDF	3.26e3	0.81	NO	0.896	10.019	41.385	41.39	1.000	1.000	1.8680		0.0768	1.87
18	18 13C-2,3,7,8-TCDD	8.85e5	0.77	NO	1.06	10.019	26.307	26.31	1.030	1.030	206.93	104	0.161	
19	19 13C-1,2,3,7,8-PeCDD	7.01e5	0.62	NO	0.785	10.019	31.139	31.00	1.219	1.214	220.37	110	0.181	
20	20 13C-1,2,3,4,7,8-HxCDD	5.10e5	1.27	NO	0.621	10.019	34.305	34.31	1.014	1.014	223.80	112	0.432	
21	21 13C-1,2,3,6,7,8-HxCDD	5.60e5	1.28	NO	0.734	10.019	34.427	34.43	1.017	1.017	207.68	104	0.366	
22	22 13C-1,2,3,7,8,9-HxCDD	5.56e5	1.27	NO	0.723	10.019	34.711	34.70	1.026	1.025	209.72	105	0.371	
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.58e5	1.08	NO	0.568	10.019	38.208	38.18	1.129	1.128	219.90	110	0.882	
24	24 13C-OCDD	6.89e5	0.90	NO	0.496	10.019	41.142	41.10	1.216	1.215	378.63	94.8	0.546	
25	25 13C-2,3,7,8-TCDF	1.18e6	0.77	NO	0.919	10.019	25.608	25.61	1.003	1.003	211.75	106	0.222	
26	26 13C-1,2,3,7,8-PeCDF	9.78e5	1.56	NO	0.715	10.019	29.852	29.75	1.169	1.165	226.04	113	0.414	
27	27 13C-2,3,4,7,8-PeCDF	9.58e5	1.59	NO	0.689	10.019	30.937	30.81	1.212	1.206	229.87	115	0.430	
28	28 13C-1,2,3,4,7,8-HxCDF	6.45e5	0.51	NO	0.873	10.019	33.412	33.40	0.987	0.987	201.19	101	0.515	
29	29 13C-1,2,3,6,7,8-HxCDF	6.27e5	0.50	NO	0.933	10.019	33.540	33.54	0.991	0.991	183.02	91.7	0.482	
30	30 13C-2,3,4,6,7,8-HxCDF	6.19e5	0.50	NO	0.843	10.019	34.207	34.20	1.011	1.010	200.18	100	0.533	
31	31 13C-1,2,3,7,8,9-HxCDF	5.77e5	0.50	NO	0.780	10.019	35.206	35.21	1.040	1.040	201.69	101	0.576	

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Dataset: U:\VG12.PRO\Results\201220R1\201220R1-8.qld

Last Altered: Wednesday, December 23, 2020 9:05:54 AM Pacific Standard Time

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Name: 201220R1_8, Date: 20-Dec-2020, Time: 13:41:32, ID: 2002532-06 USMPDI-002SC-A-05-06-201111 15.47, Description: USMPDI-002SC-A-05-06-201111

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	4.33e5	0.43	NO	0.726	10.019	36.779	36.76	1.087	1.086	162.46	81.4	0.612	
33	13C-1,2,3,4,7,8,9-HpCDF	3.86e5	0.43	NO	0.491	10.019	38.786	38.79	1.146	1.146	214.08	107	0.905	
34	13C-OCDF	7.77e5	0.87	NO	0.565	10.019	41.359	41.38	1.222	1.223	374.57	93.8	0.801	
35	37Cl-2,3,7,8-TCDD	3.83e5			1.22	10.019	26.302	26.32	1.030	1.031	77.659	97.3	0.0390	
36	13C-1,2,3,4-TCDD	8.09e5	0.79	NO	1.00	10.019	25.640	25.54	1.000	1.000	199.62	100	0.169	
37	13C-1,2,3,4-TCDF	1.21e6	0.79	NO	1.00	10.019	24.130	24.03	1.000	1.000	199.62	100	0.204	
38	13C-1,2,3,4,6,9-HxCDF	7.33e5	0.51	NO	1.00	10.019	33.920	33.85	1.000	1.000	199.62	100	0.450	
39	Total Tetra-Dioxins				0.980	10.019	24.620		0.000		0.38043		0.0513	0.380
40	Total Penta-Dioxins				0.932	10.019	29.960		0.000		0.38352		0.0916	0.743
41	Total Hexa-Dioxins				0.902	10.019	33.635		0.000		1.9362		0.0916	2.89
42	Total Hepta-Dioxins				0.918	10.019	37.640		0.000		13.523		0.279	13.5
43	Total Tetra-Furans				0.848	10.019	23.610		0.000		0.82122		0.0459	0.880
44	1st Func. Penta-Furans				0.960	10.019	26.930		0.000		0.49746		0.0189	0.497
45	Total Penta-Furans				0.960	10.019	29.275		0.000		0.98243		0.0510	0.982
46	Total Hexa-Furans				1.02	10.019	33.555		0.000		2.2690		0.0842	2.27
47	Total Hepta-Furans				1.05	10.019	37.835		0.000		3.3165		0.0534	3.40

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Dataset: U:\VG12.PRO\Results\201220R1\201220R1-8.qld

Last Altered: Wednesday, December 23, 2020 9:05:54 AM Pacific Standard Time

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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: 201220R1_8, Date: 20-Dec-2020, Time: 13:41:32, ID: 2002532-06 USMPDI-002SC-A-05-06-201111 15.47, Description: USMPDI-002SC-A-05-06-201111

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.50	3.597e3	3.138e3	2.855e2	3.241e2	0.88	NO	6.096e2	0.14020	0.14020	0.0513
2	Total Tetra-Dioxins	22.86	1.683e3	3.330e3	1.800e2	2.684e2	0.67	NO	4.484e2	0.10313	0.10313	0.0513
3	Total Tetra-Dioxins	24.22	4.911e3	5.131e3	2.605e2	3.356e2	0.78	NO	5.961e2	0.13710	0.13710	0.0513

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.76	2.689e3	4.835e3	2.242e2	3.935e2	0.57	NO	6.177e2	0.18878	0.18878	0.0916
2	Total Penta-Dioxins	29.24	2.456e3	4.696e3	1.560e2	2.283e2	0.68	NO	3.843e2	0.11746	0.11746	0.0916
3	Total Penta-Dioxins	29.54	1.715e3	1.043e4	8.234e1	5.582e2	0.15	YES	0.000e0	0.00000	0.065109	0.0916
4	Total Penta-Dioxins	29.75	1.064e4	5.516e3	4.137e2	3.332e2	1.24	YES	0.000e0	0.00000	0.16599	0.0916
5	Total Penta-Dioxins	30.23	5.647e3	3.644e3	2.458e2	1.798e2	1.37	YES	0.000e0	0.00000	0.089549	0.0916
6	1,2,3,7,8-PeCDD	31.02	1.985e3	3.310e3	9.364e1	1.592e2	0.59	NO	2.528e2	0.077280	0.077280	0.0916
7	Total Penta-Dioxins	31.36	2.704e3	2.788e3	9.391e1	7.854e1	1.20	YES	0.000e0	0.00000	0.039128	0.0916

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.68	3.778e4	3.238e4	1.627e3	1.453e3	1.12	NO	3.081e3	1.2576	1.2576	0.0916
2	Total Hexa-Dioxins	33.28	6.416e3	4.608e3	2.644e2	2.442e2	1.08	NO	5.086e2	0.20763	0.20763	0.0916
3	Total Hexa-Dioxins	33.55	1.832e4	1.286e4	1.496e3	1.048e3	1.43	YES	0.000e0	0.00000	0.95855	0.0916
4	1,2,3,6,7,8-HxCDD	34.44	8.060e3	6.393e3	4.063e2	3.260e2	1.25	NO	7.323e2	0.28949	0.28949	0.0866
5	1,2,3,7,8,9-HxCDD	34.70	4.500e3	4.868e3	2.682e2	2.144e2	1.25	NO	4.826e2	0.18150	0.18150	0.0872

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.17	1.056e5	1.067e5	7.745e3	7.613e3	1.02	NO	1.536e4	7.2877	7.2877	0.279
2	1,2,3,4,6,7,8-HpCDD	38.19	1.109e5	1.062e5	6.627e3	6.514e3	1.02	NO	1.314e4	6.2354	6.2354	0.279

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Name: 201220R1_8, Date: 20-Dec-2020, Time: 13:41:32, ID: 2002532-06 USMPDI-002SC-A-05-06-201111 15.47, Description: USMPDI-002SC-A-05-06-201111

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.60	8.497e3	9.176e3	7.827e2	9.481e2	0.83	NO	1.731e3	0.34596	0.34596	0.0459
2	Total Tetra-Furans	23.01	2.781e3	3.967e3	2.030e2	2.470e2	0.82	NO	4.500e2	0.089948	0.089948	0.0459
3	Total Tetra-Furans	24.62	4.806e3	6.905e3	3.510e2	5.336e2	0.66	NO	8.846e2	0.17681	0.17681	0.0459
4	Total Tetra-Furans	25.51	1.611e3	2.851e3	1.270e2	2.111e2	0.60	YES	0.000e0	0.00000	0.058364	0.0459
5	2,3,7,8-TCDF	25.65	6.922e3	7.794e3	4.643e2	5.789e2	0.80	NO	1.043e3	0.20850	0.20850	0.0459

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	27.13	2.499e4	1.474e4	1.394e3	9.215e2	1.51	NO	2.315e3	0.49746	0.49746	0.0189

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.61	3.490e3	1.446e3	1.729e2	1.083e2	1.60	NO	2.812e2	0.060422	0.060422	0.0510
2	Total Penta-Furans	28.77	1.159e4	7.005e3	9.074e2	6.055e2	1.50	NO	1.513e3	0.32507	0.32507	0.0510
3	Total Penta-Furans	29.41	6.198e3	4.114e3	3.358e2	2.248e2	1.49	NO	5.607e2	0.12047	0.12047	0.0510
4	1,2,3,7,8-PeCDF	29.77	9.514e3	7.265e3	4.935e2	3.626e2	1.36	NO	8.561e2	0.18203	0.18203	0.0511
5	Total Penta-Furans	30.01	6.827e3	5.099e3	3.672e2	2.738e2	1.34	NO	6.411e2	0.13774	0.13774	0.0510
6	2,3,4,7,8-PeCDF	30.82	9.375e3	5.515e3	4.944e2	3.080e2	1.60	NO	8.024e2	0.15670	0.15670	0.0458

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.15	7.282e3	5.691e3	3.022e2	2.821e2	1.07	NO	5.843e2	0.18524	0.18524	0.0842
2	Total Hexa-Furans	32.33	1.924e4	1.763e4	9.924e2	8.812e2	1.13	NO	1.874e3	0.59398	0.59398	0.0842
3	Total Hexa-Furans	32.94	2.800e4	2.216e4	1.434e3	1.175e3	1.22	NO	2.610e3	0.82739	0.82739	0.0842
4	1,2,3,4,7,8-HxCDF	33.42	9.810e3	1.283e4	4.995e2	4.717e2	1.06	NO	9.712e2	0.30490	0.30490	0.0774
5	1,2,3,6,7,8-HxCDF	33.55	4.378e3	3.832e3	2.279e2	1.803e2	1.26	NO	4.082e2	0.12509	0.12509	0.0786
6	2,3,4,6,7,8-HxCDF	34.22	3.076e3	2.515e3	1.680e2	1.487e2	1.13	NO	3.167e2	0.10005	0.10005	0.0835
7	1,2,3,7,8,9-HxCDF	35.21	3.277e3	2.371e3	1.511e2	1.346e2	1.12	NO	2.857e2	0.099682	0.099682	0.103
8	Total Hexa-Furans	35.27	1.581e3	1.304e3	5.435e1	4.881e1	1.11	NO	1.032e2	0.032707	0.032707	0.0842

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Name: 201220R1_8, Date: 20-Dec-2020, Time: 13:41:32, ID: 2002532-06 USMPDI-002SC-A-05-06-201111 15.47, Description: USMPDI-002SC-A-05-06-201111

Hepta-Furans

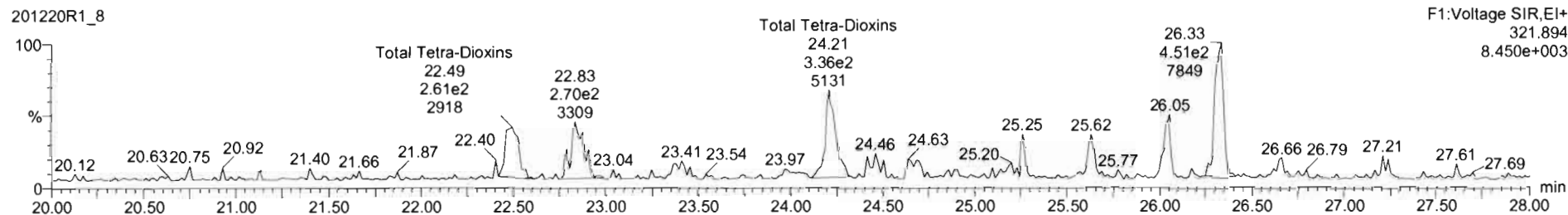
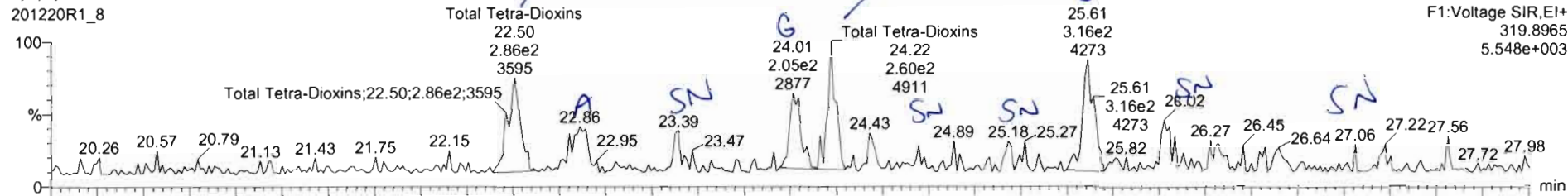
	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.78	1.841e4	1.946e4	1.461e3	1.468e3	1.00	NO	2.929e3	1.2862	1.2862	0.0560
2	Total Hepta-Furans	37.51	3.055e4	3.077e4	2.197e3	2.173e3	1.01	NO	4.370e3	2.0303	2.0303	0.0534
3	1,2,3,4,7,8,9-HpCDF	38.82	1.599e3	2.068e3	9.831e1	1.177e2	0.84	YES	2.160e2	0.00000	0.084827	0.0450

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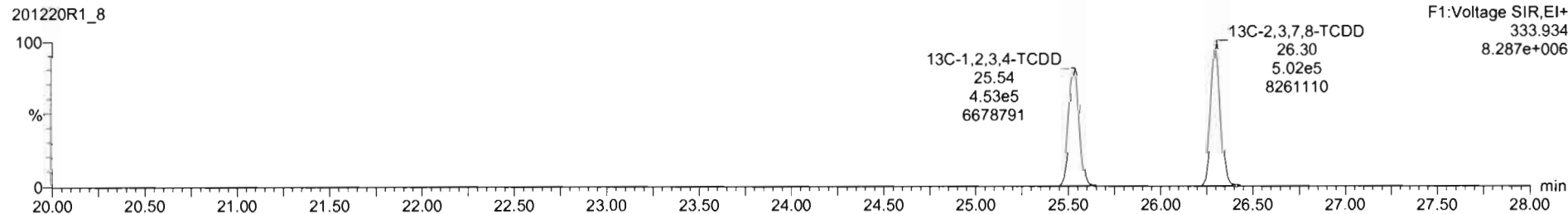
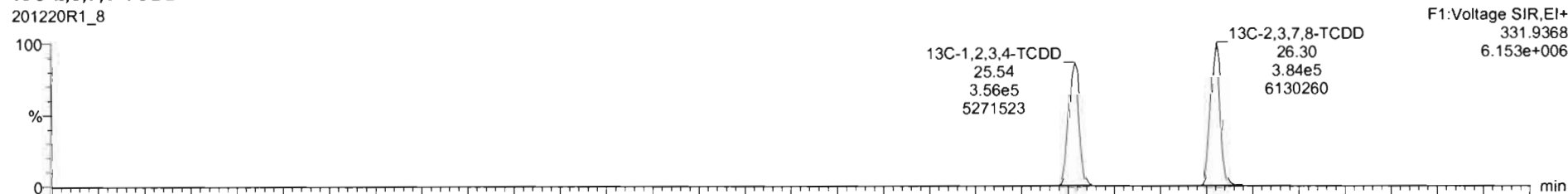
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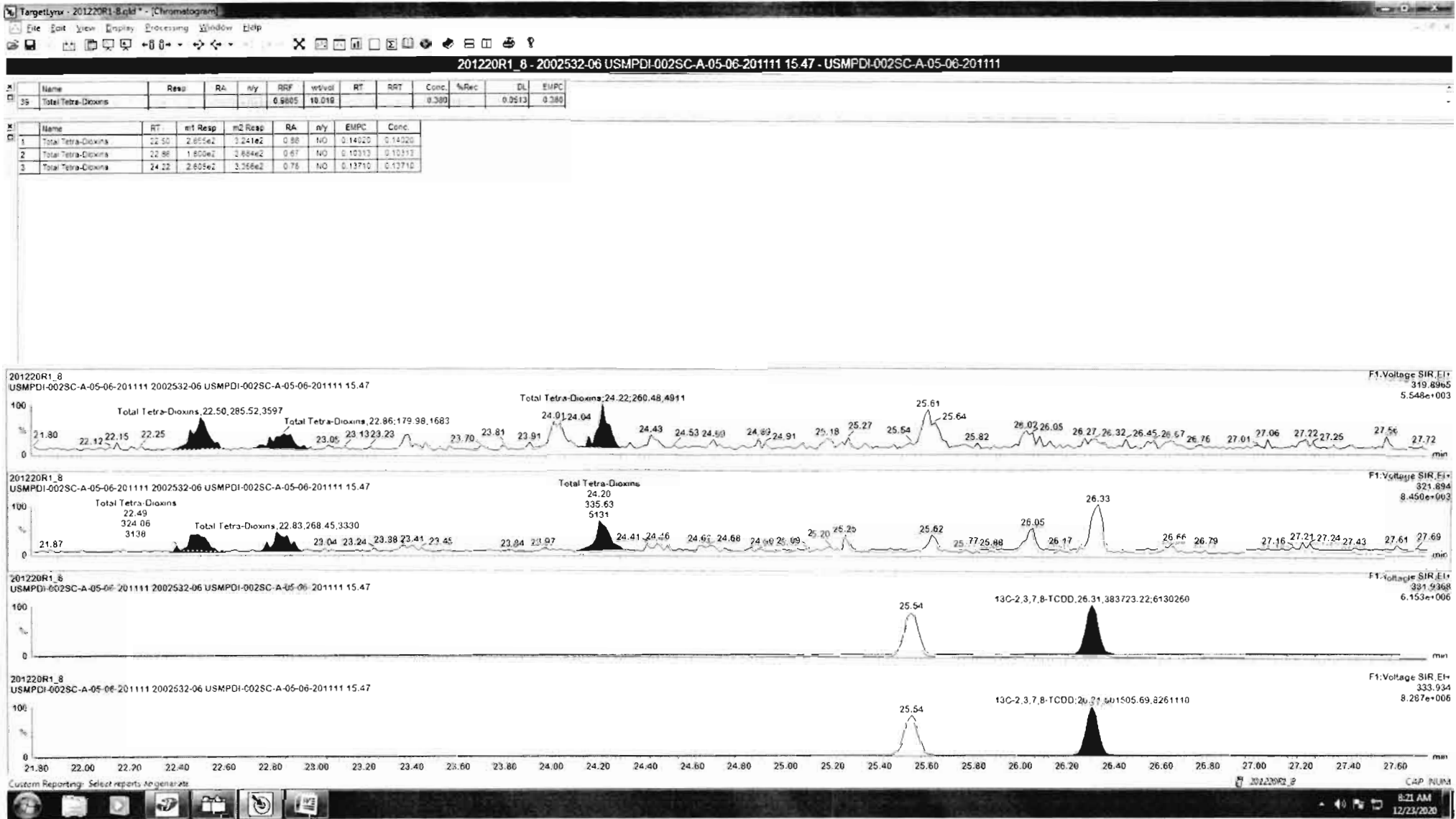
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2,3,7,8-TCDD



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





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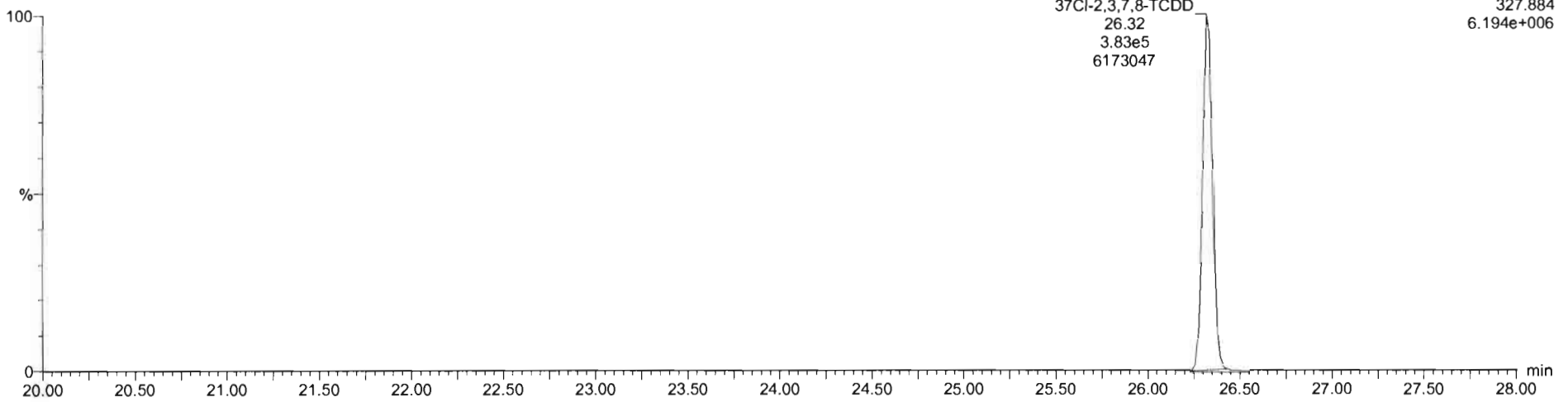
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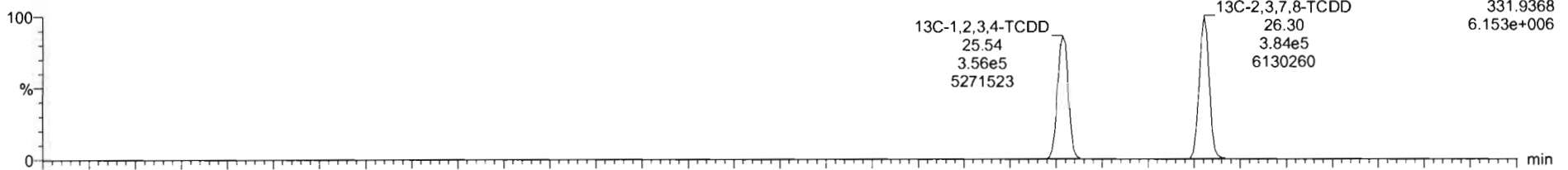
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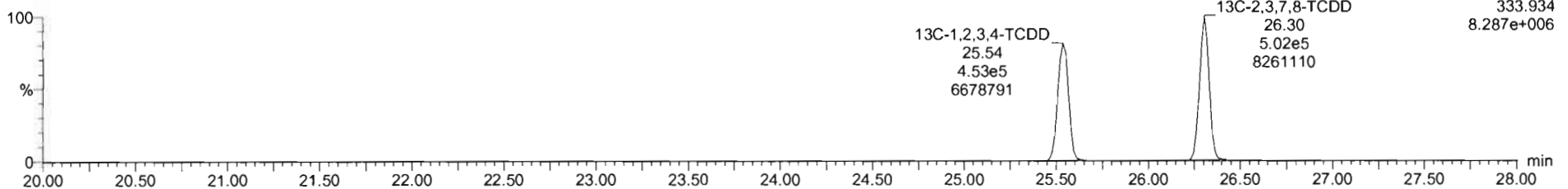


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201220R1_8



201220R1_8



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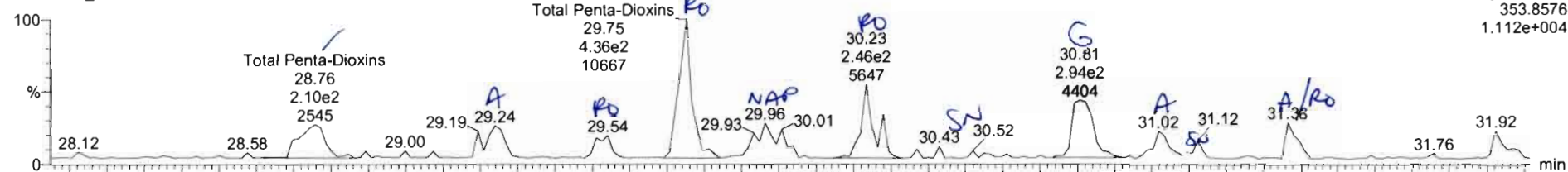
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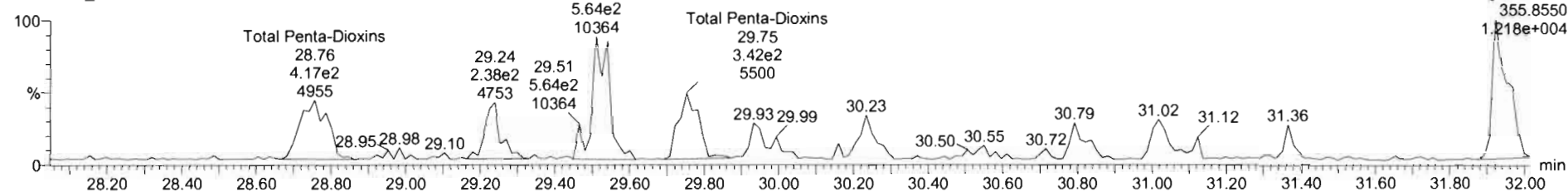
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1,2,3,7,8-PeCDD

201220R1_8

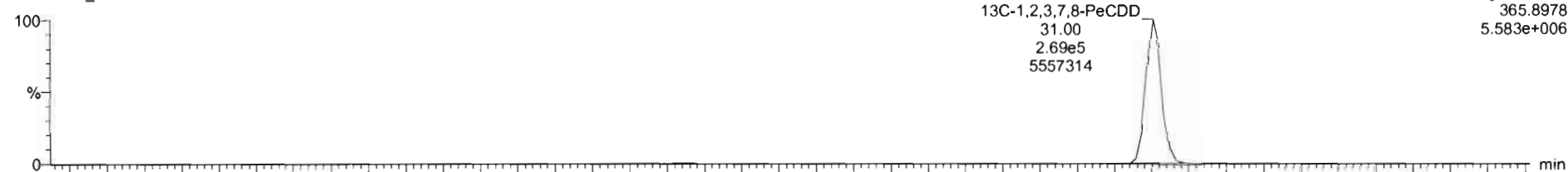


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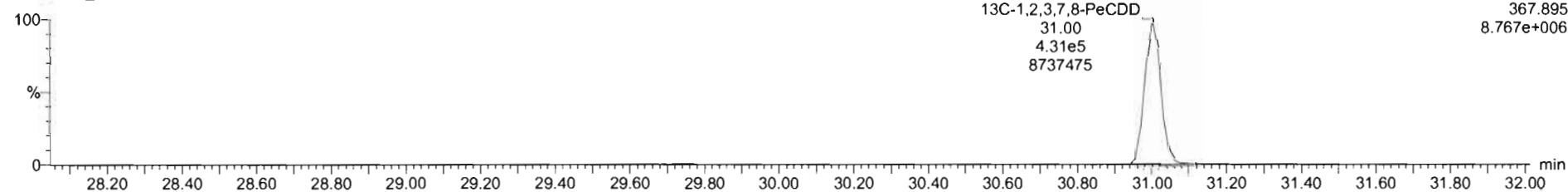


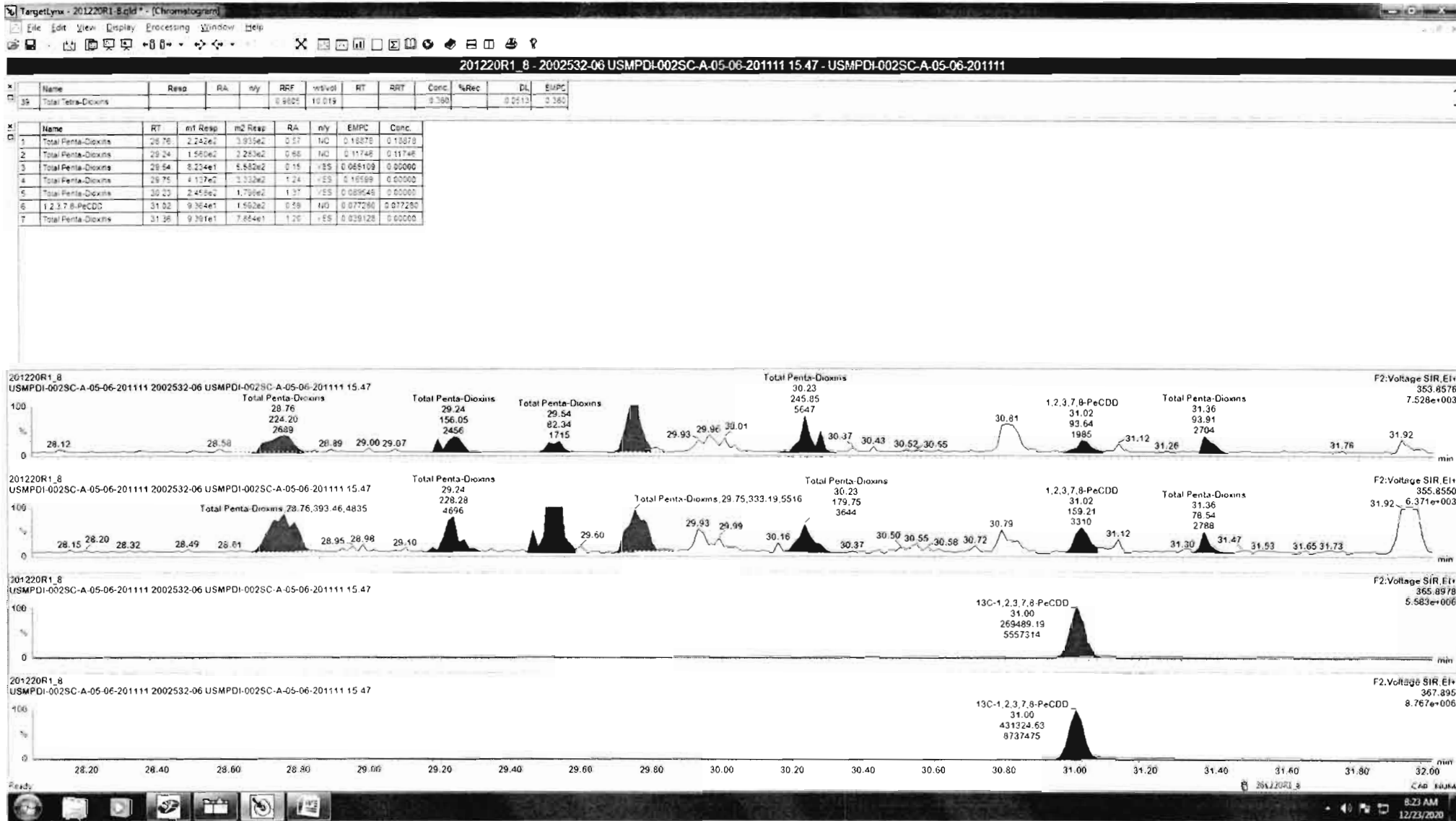
13C-1,2,3,7,8-PeCDD

201220R1_8



201220R1_8





Dataset: Untitled

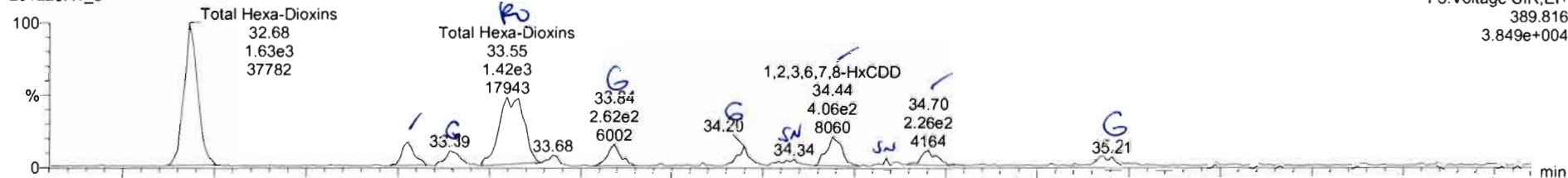
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Name: 201220R1_8, Date: 20-Dec-2020, Time: 13:41:32, ID: 2002532-06 USMPDI-002SC-A-05-06-201111 15.47, Description: USMPDI-002SC-A-05-06-201111

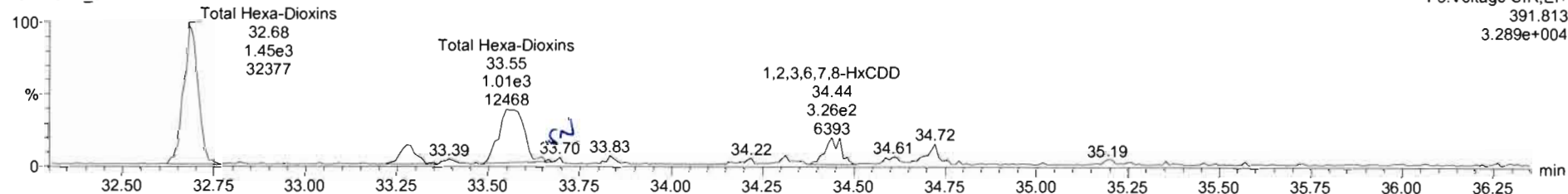
1,2,3,4,7,8-HxCDD

201220R1_8



F3:Voltage SIR,EI+
389.816
3.849e+004

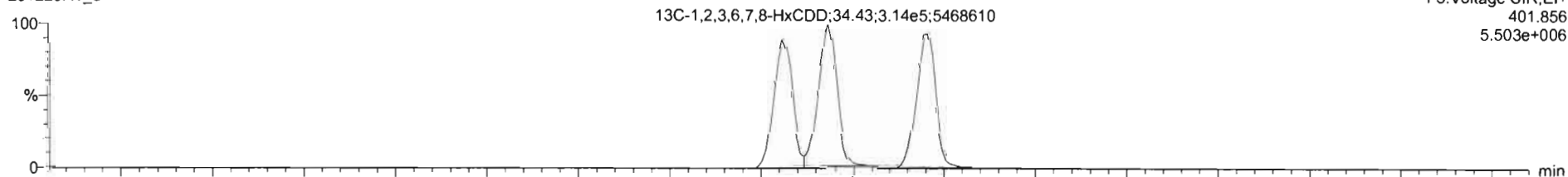
201220R1_8



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3.289e+004

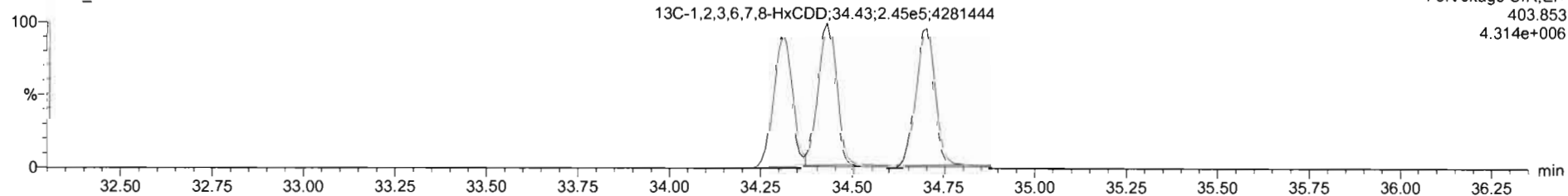
13C-1,2,3,4,7,8-HxCDD

201220R1_8

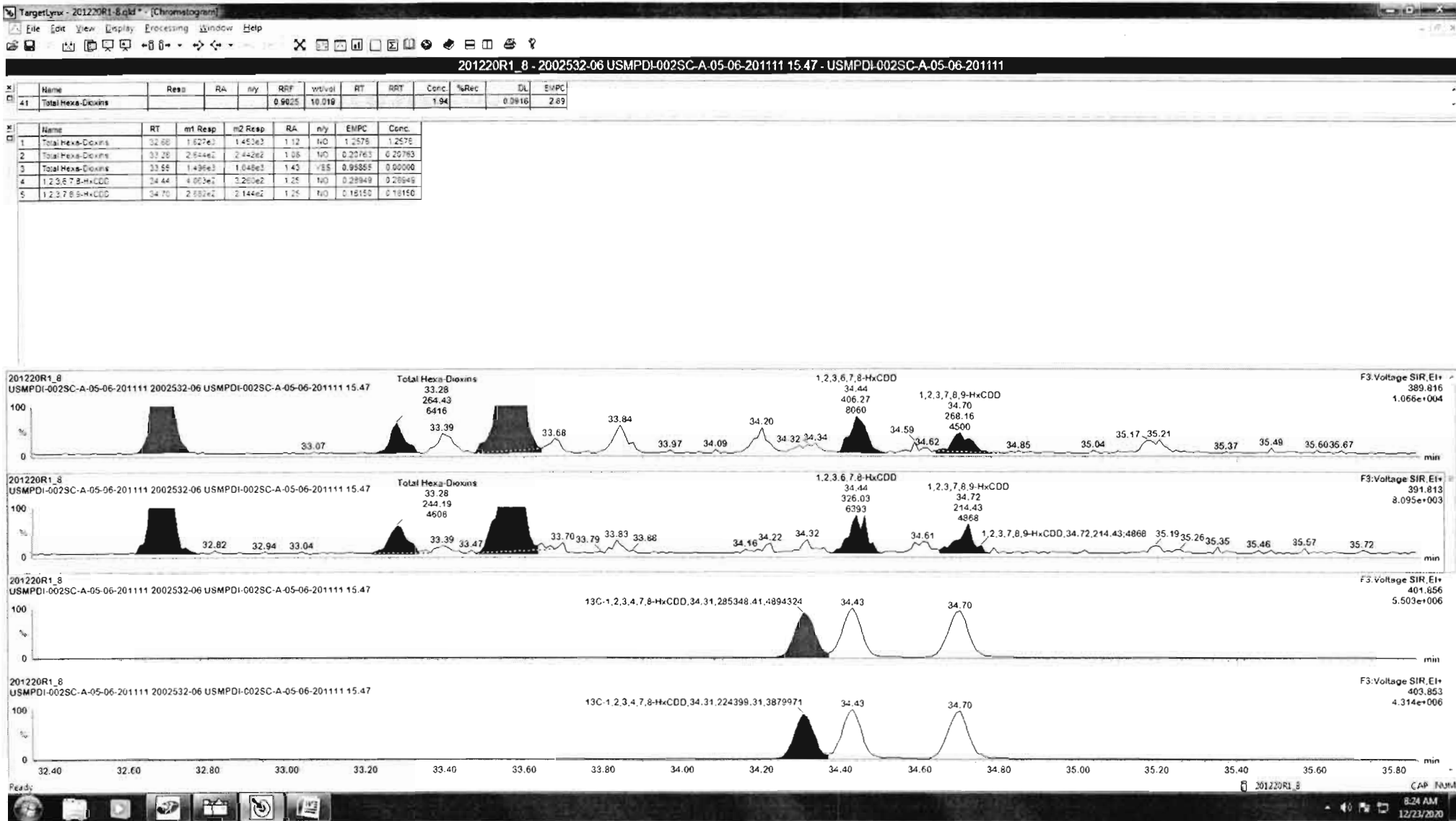


F3:Voltage SIR,EI+
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5.503e+006

201220R1_8



F3:Voltage SIR,EI+
403.853
4.314e+006



Dataset: Untitled

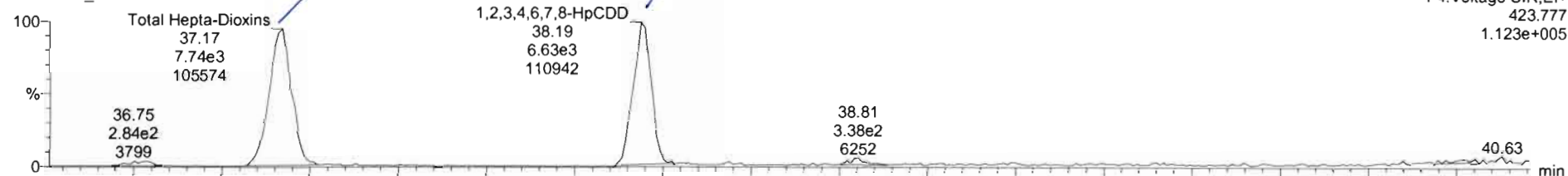
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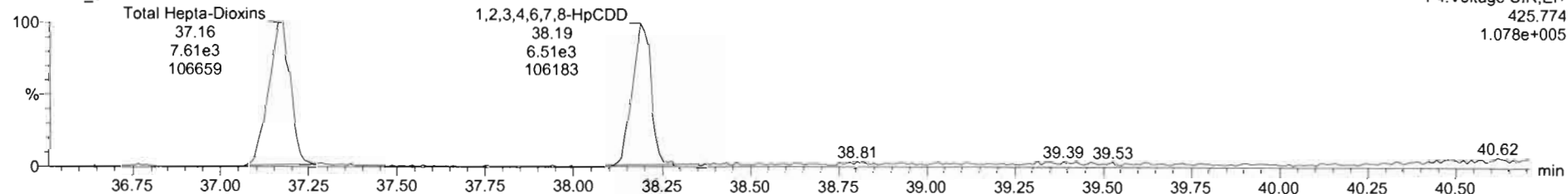
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1,2,3,4,6,7,8-HpCDD

201220R1_8

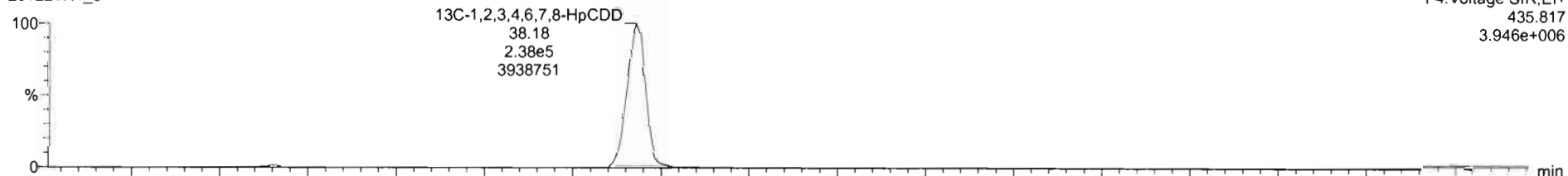


201220R1_8

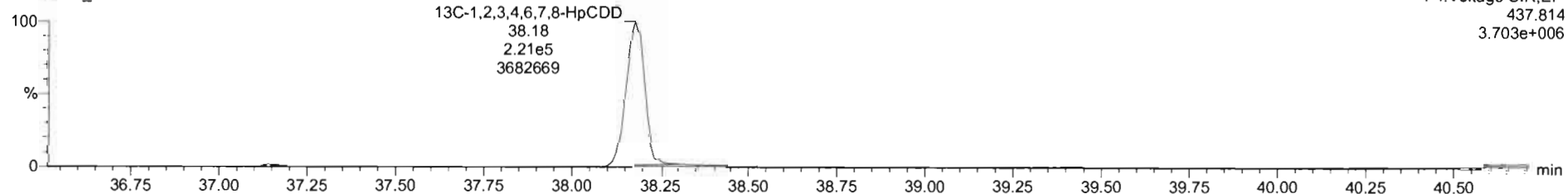


13C-1,2,3,4,6,7,8-HpCDD

201220R1_8



201220R1_8



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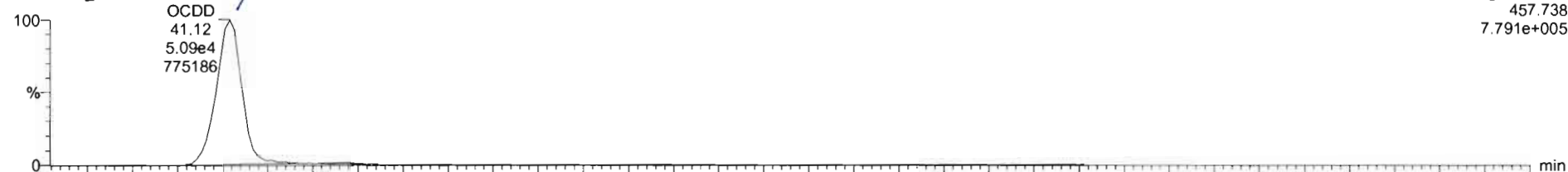
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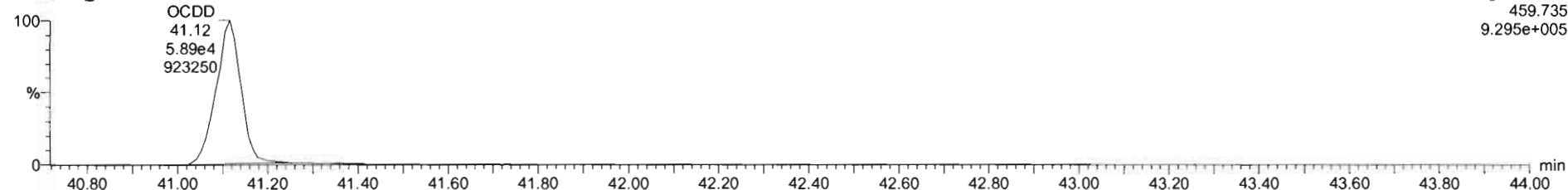
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OCDD

201220R1_8



201220R1_8

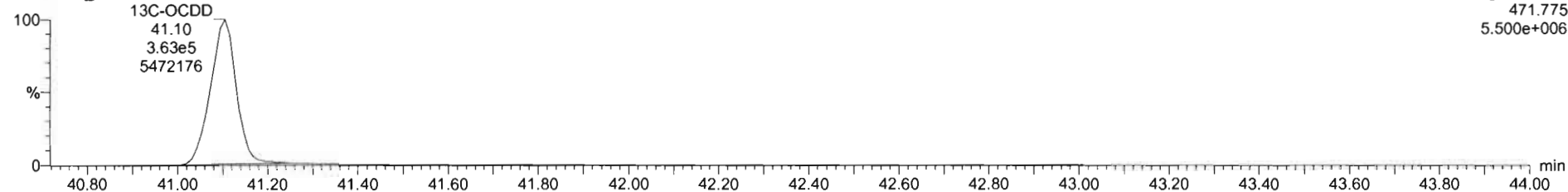


13C-OCDD

201220R1_8



201220R1_8

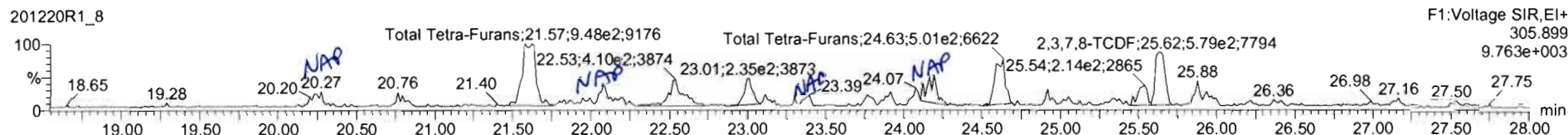
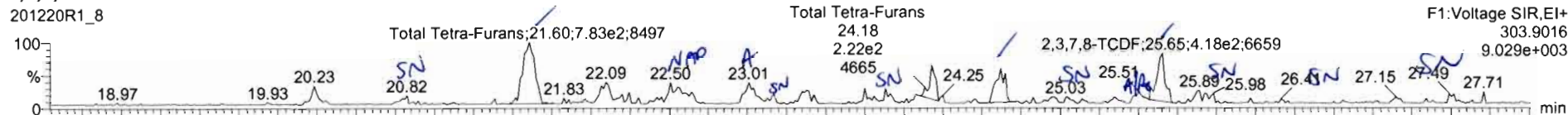


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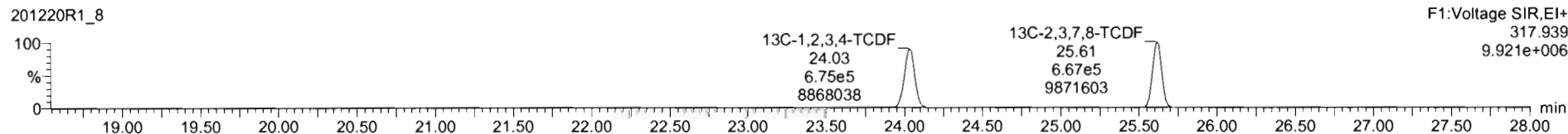
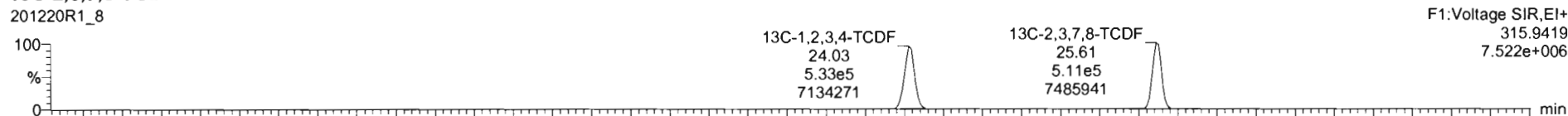
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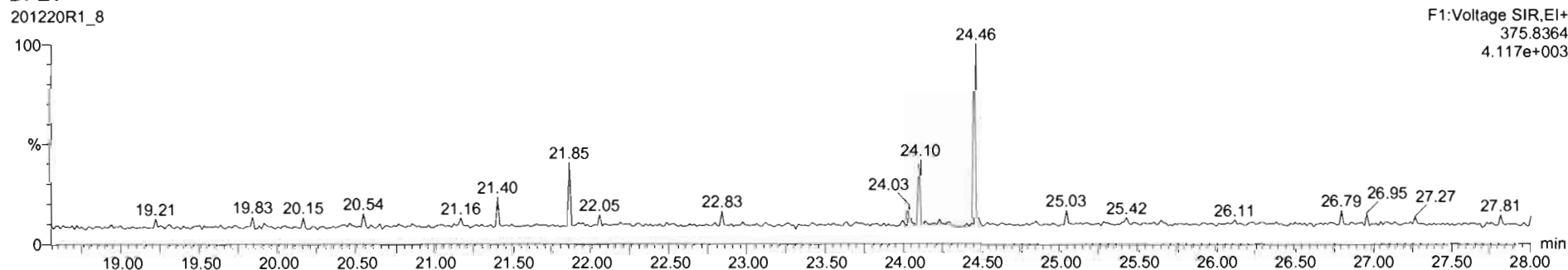
2,3,7,8-TCDF

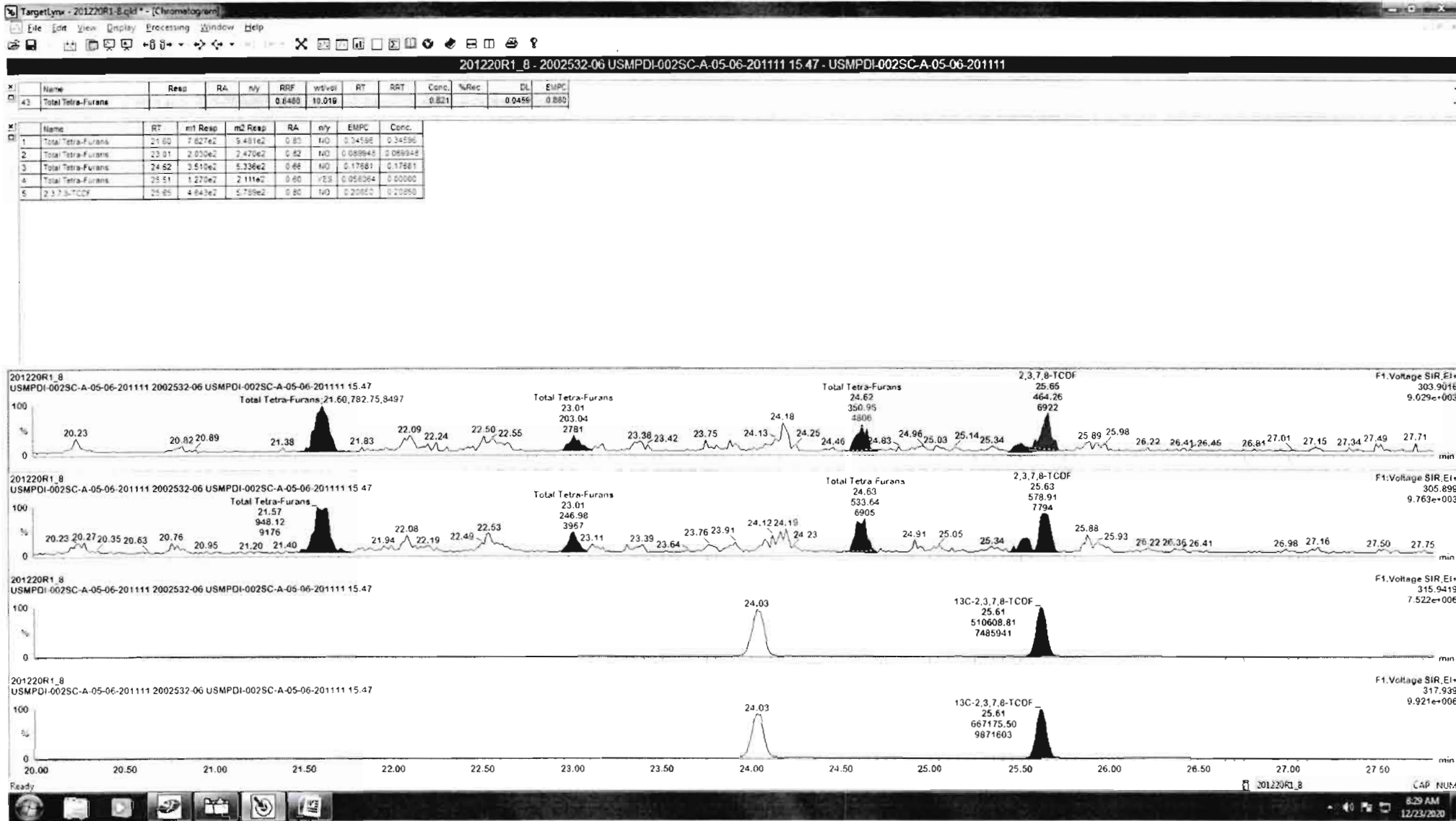


13C-2,3,7,8-TCDF



DPE1





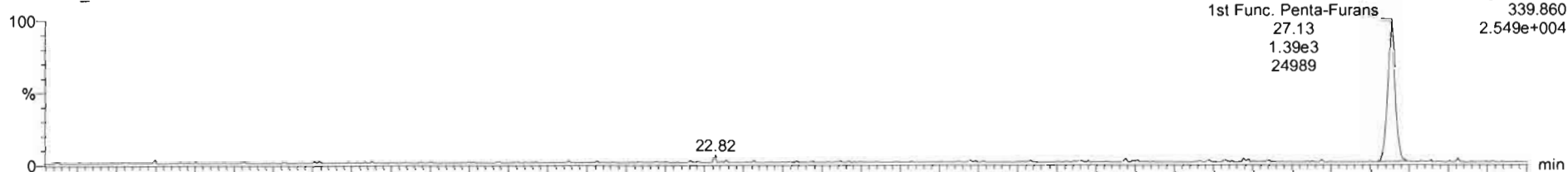
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Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

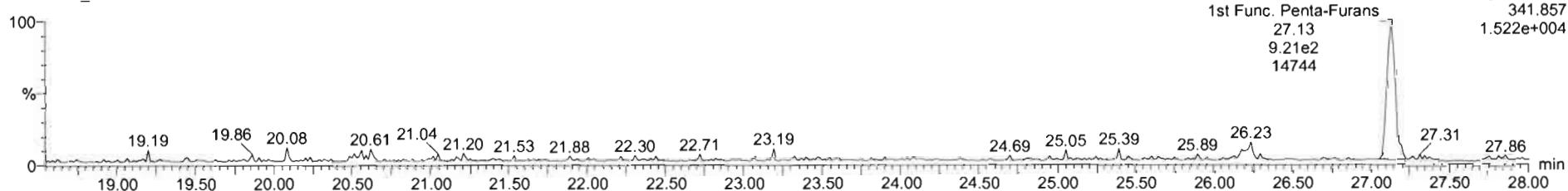
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1st Func. Penta-Furans

201220R1_8

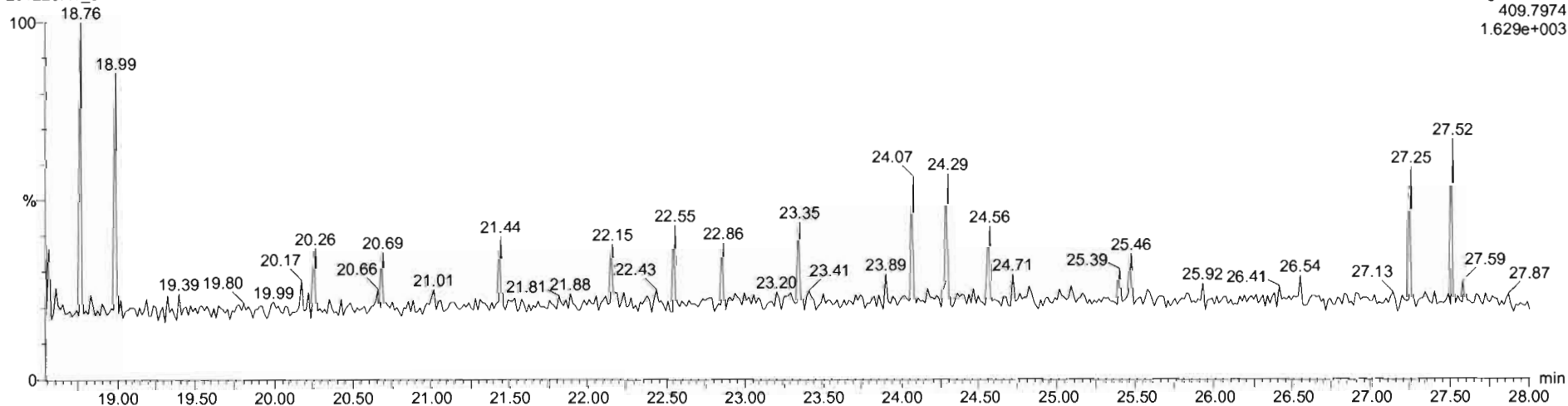


201220R1_8



DPE6

201220R1_8

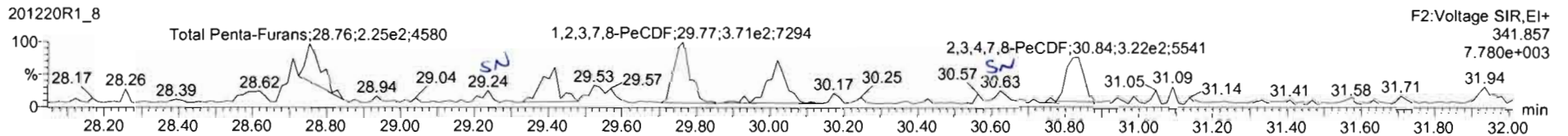
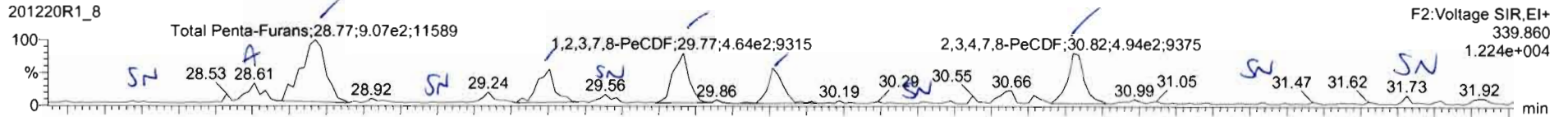


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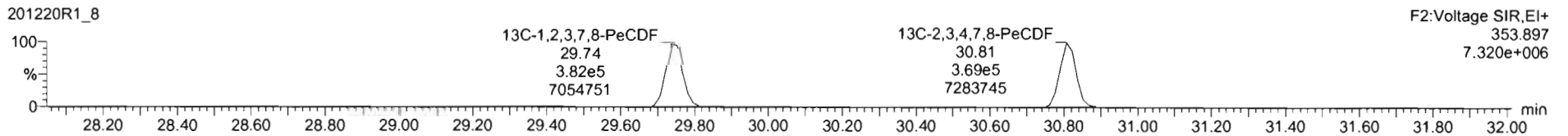
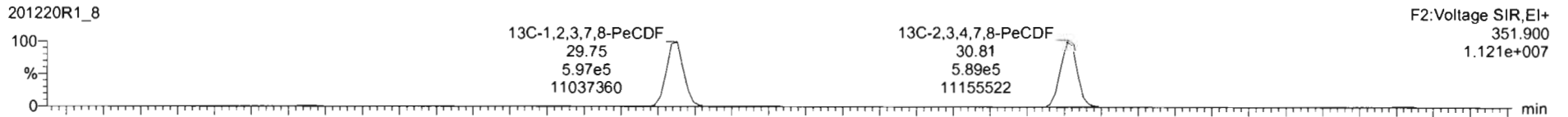
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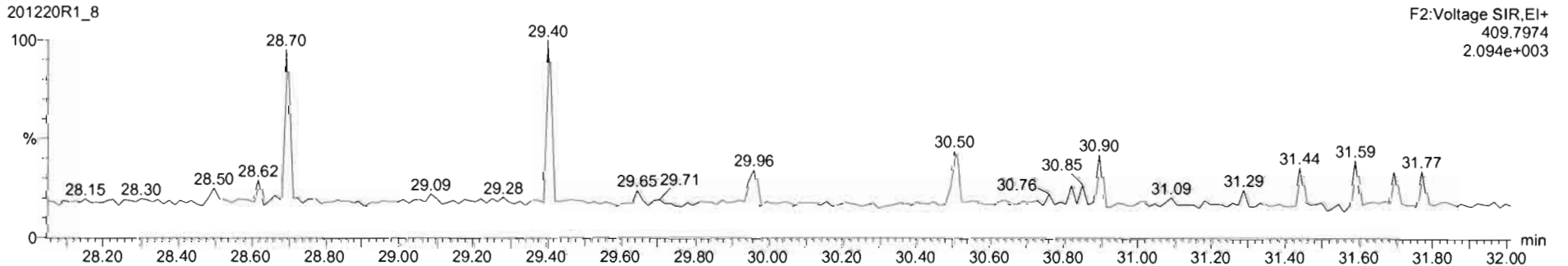
1,2,3,7,8-PeCDF



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

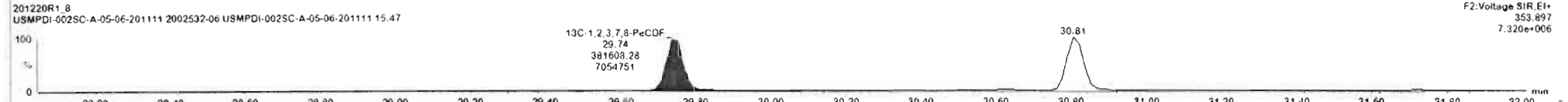
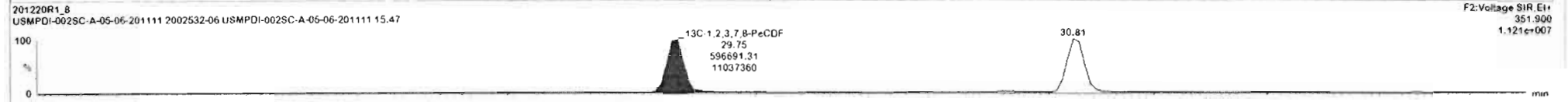
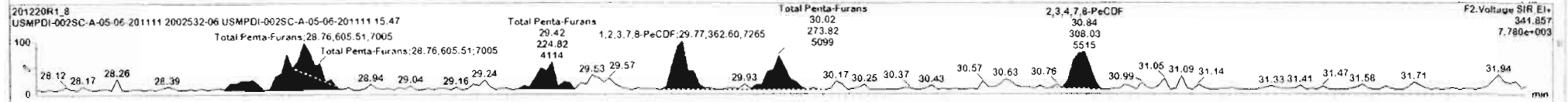
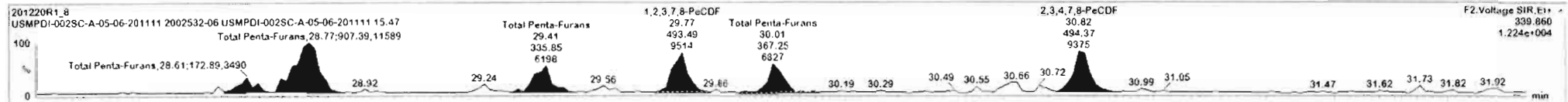


DPE2



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans			0.9597	10.016			0.982		0.0510	0.982

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Penta-Furans	28.61	1.729e2	1.683e2	1.60	nD	0.660422
2	Total Penta-Furans	28.77	9.074e2	8.656e2	1.56	nD	0.32507
3	Total Penta-Furans	29.41	3.355e2	2.246e2	1.49	nD	0.12047
4	1,2,3,7,8-PeCDF	29.77	4.675e2	3.624e2	1.36	nD	0.18203
5	Total Penta-Furans	30.01	2.672e2	2.736e2	1.34	nD	0.13774
6	2,3,4,7,8-PeCDF	30.82	4.944e2	3.080e2	1.60	nD	0.15670

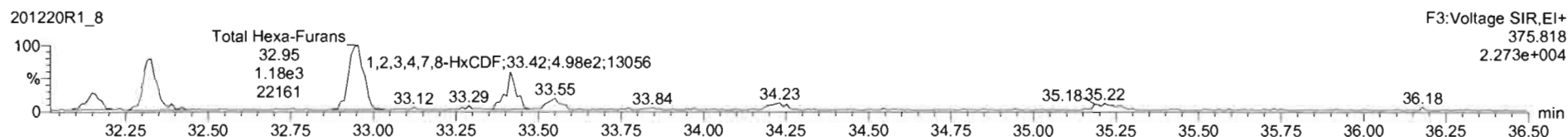
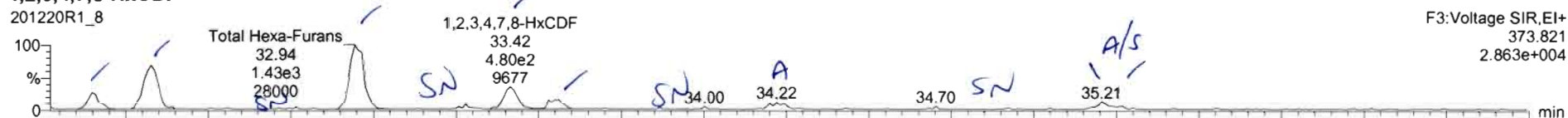


Dataset: Untitled

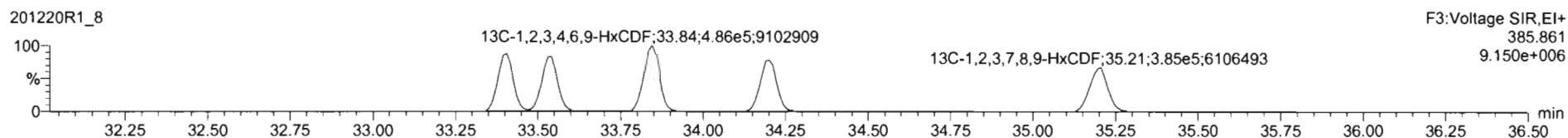
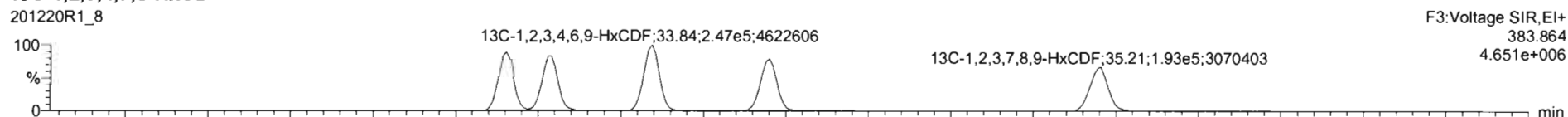
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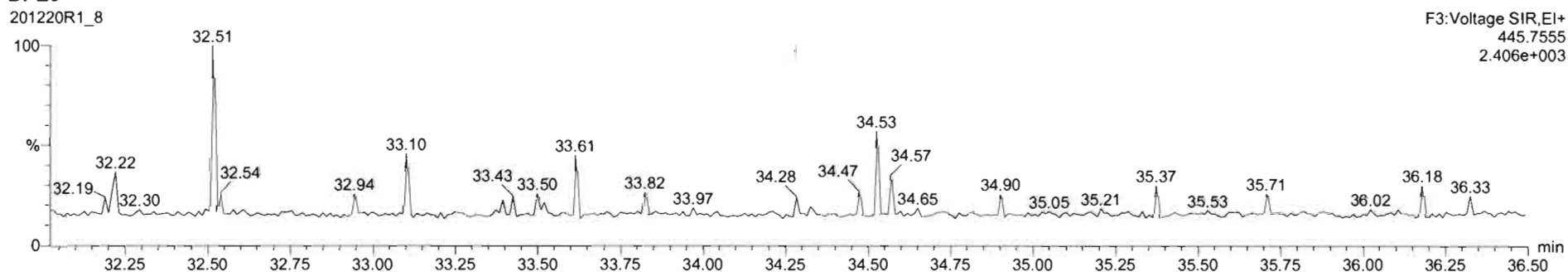
1,2,3,4,7,8-HxCDF

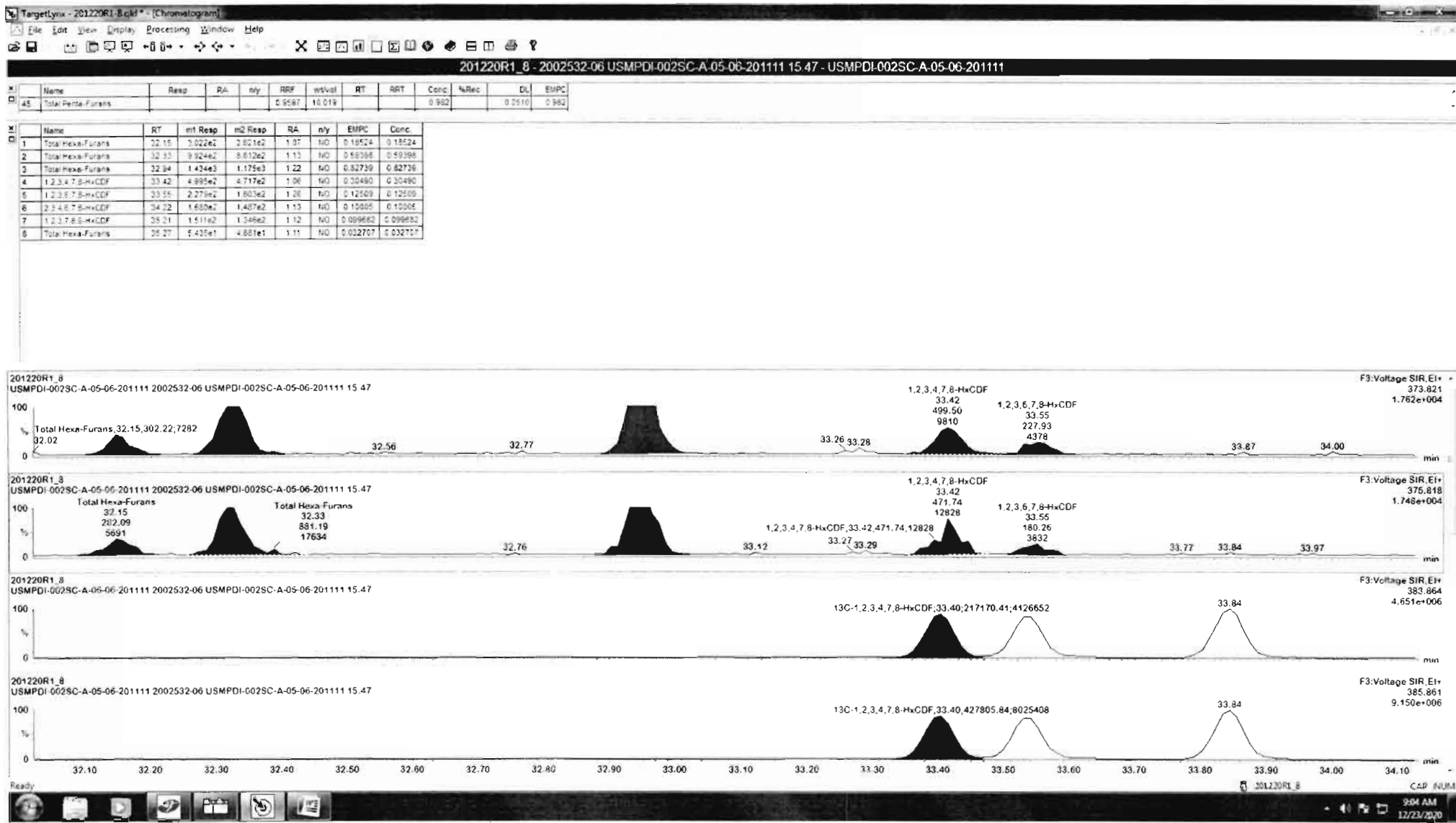


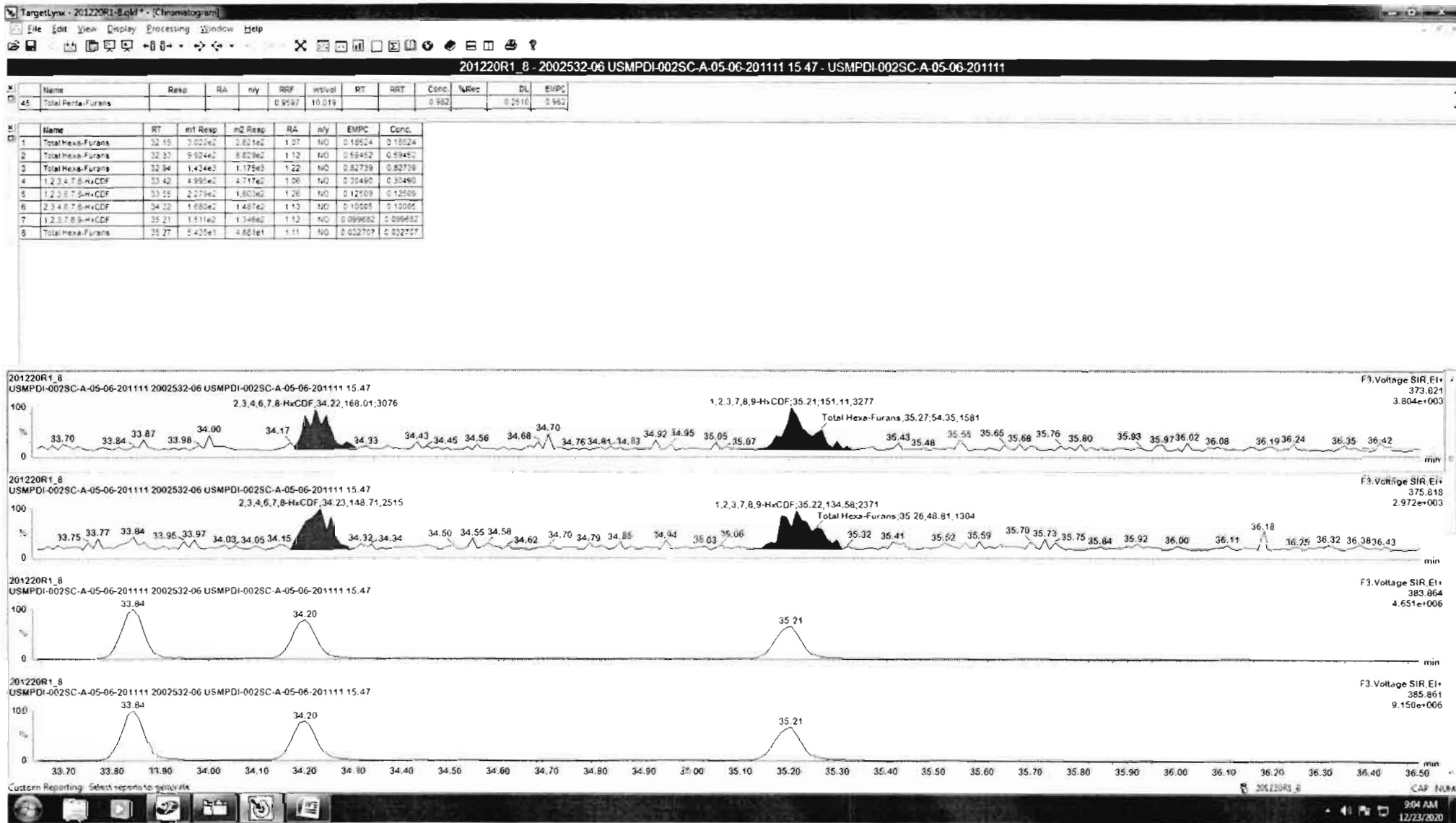
13C-1,2,3,4,7,8-HxCDF



DPE3







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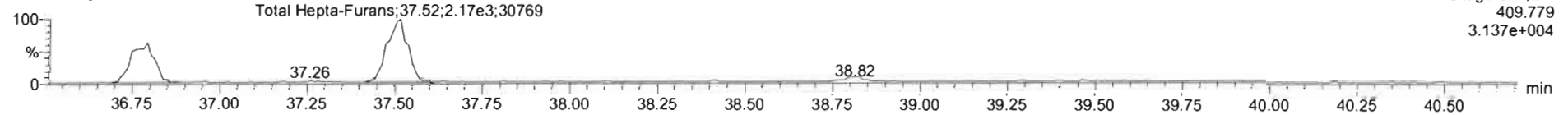
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1,2,3,4,6,7,8-HpCDF

201220R1_8

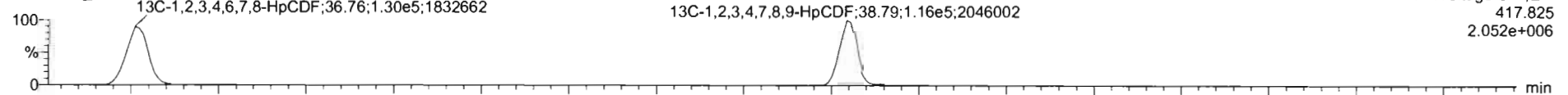


201220R1_8

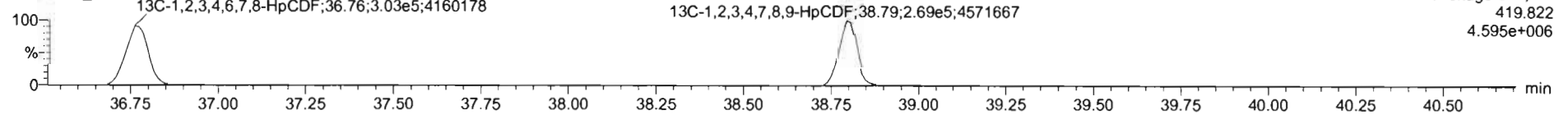


13C-1,2,3,4,6,7,8-HpCDF

201220R1_8

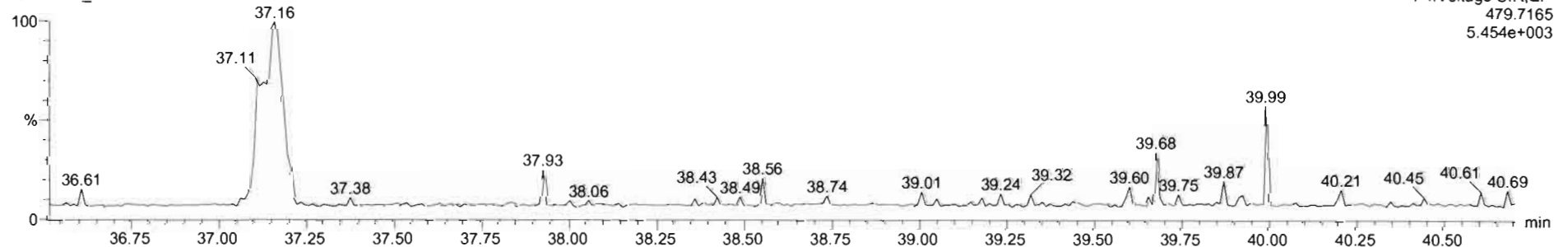


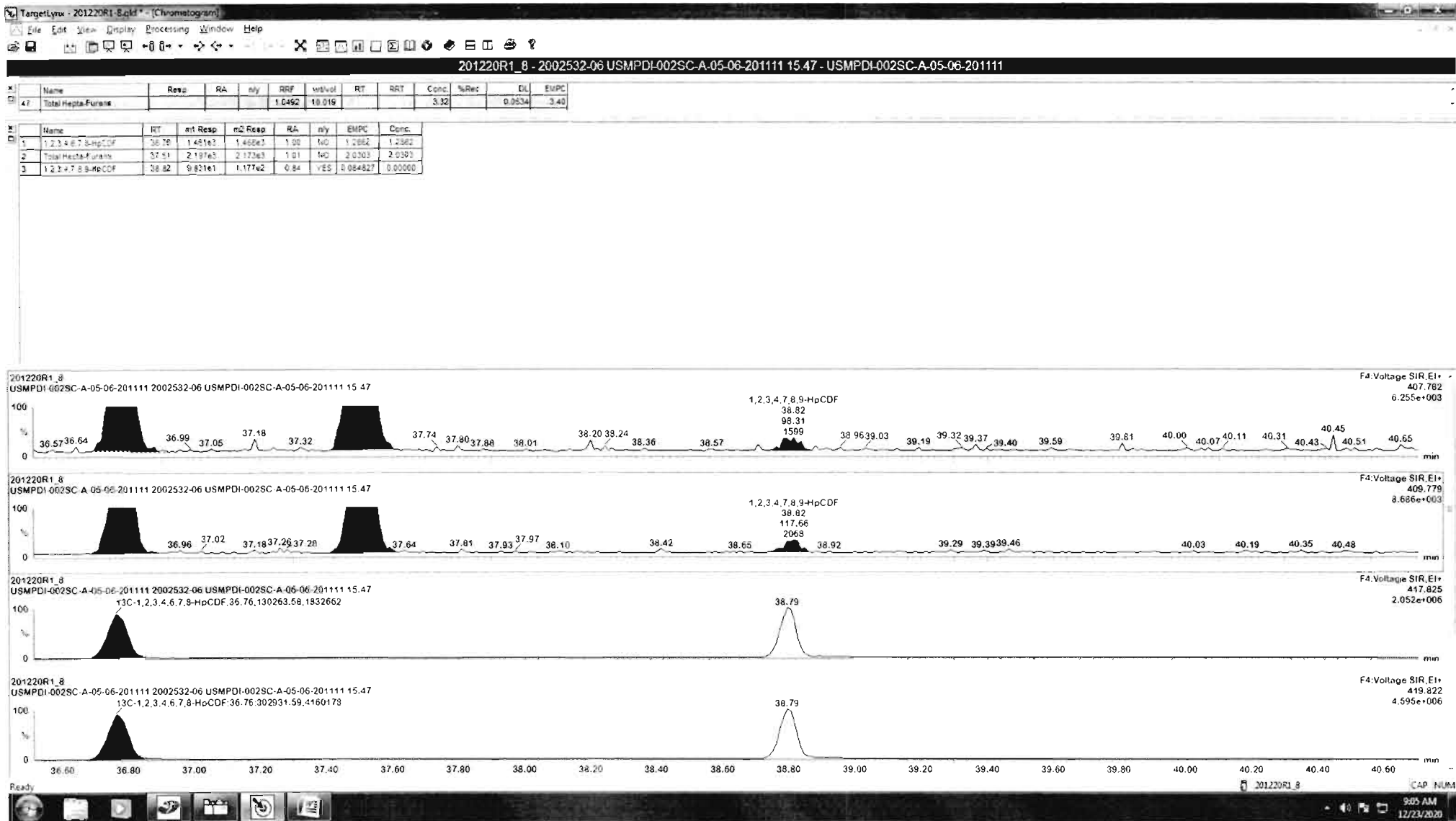
201220R1_8



DPE4

201220R1_8

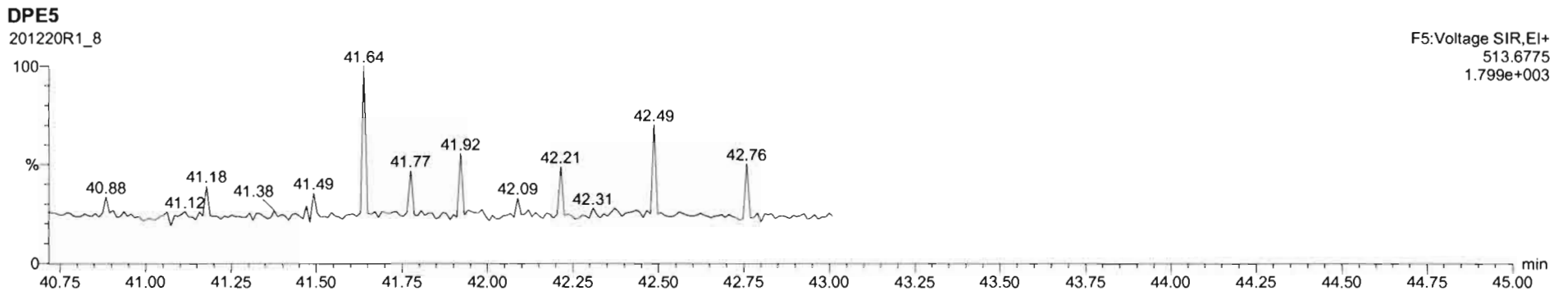
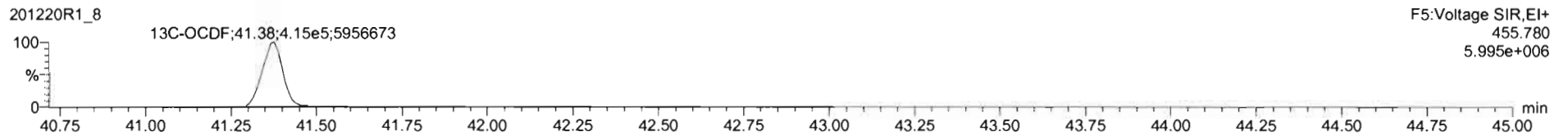
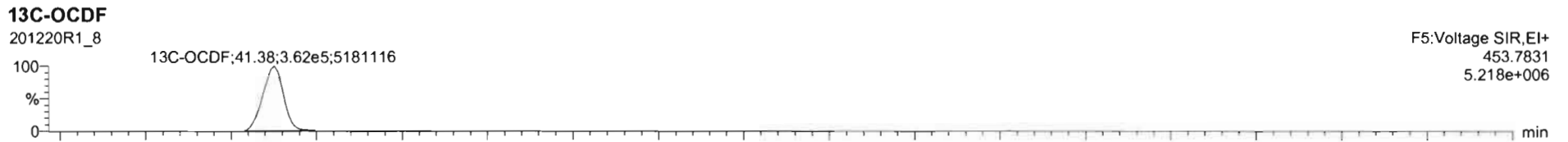
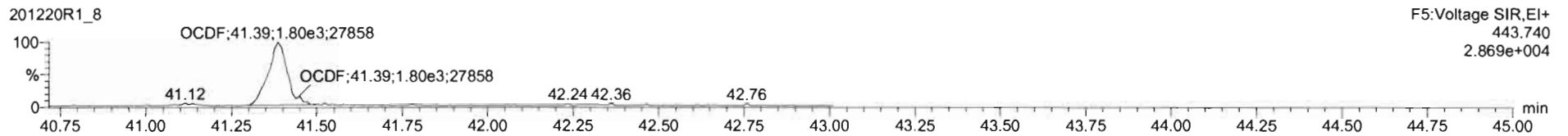


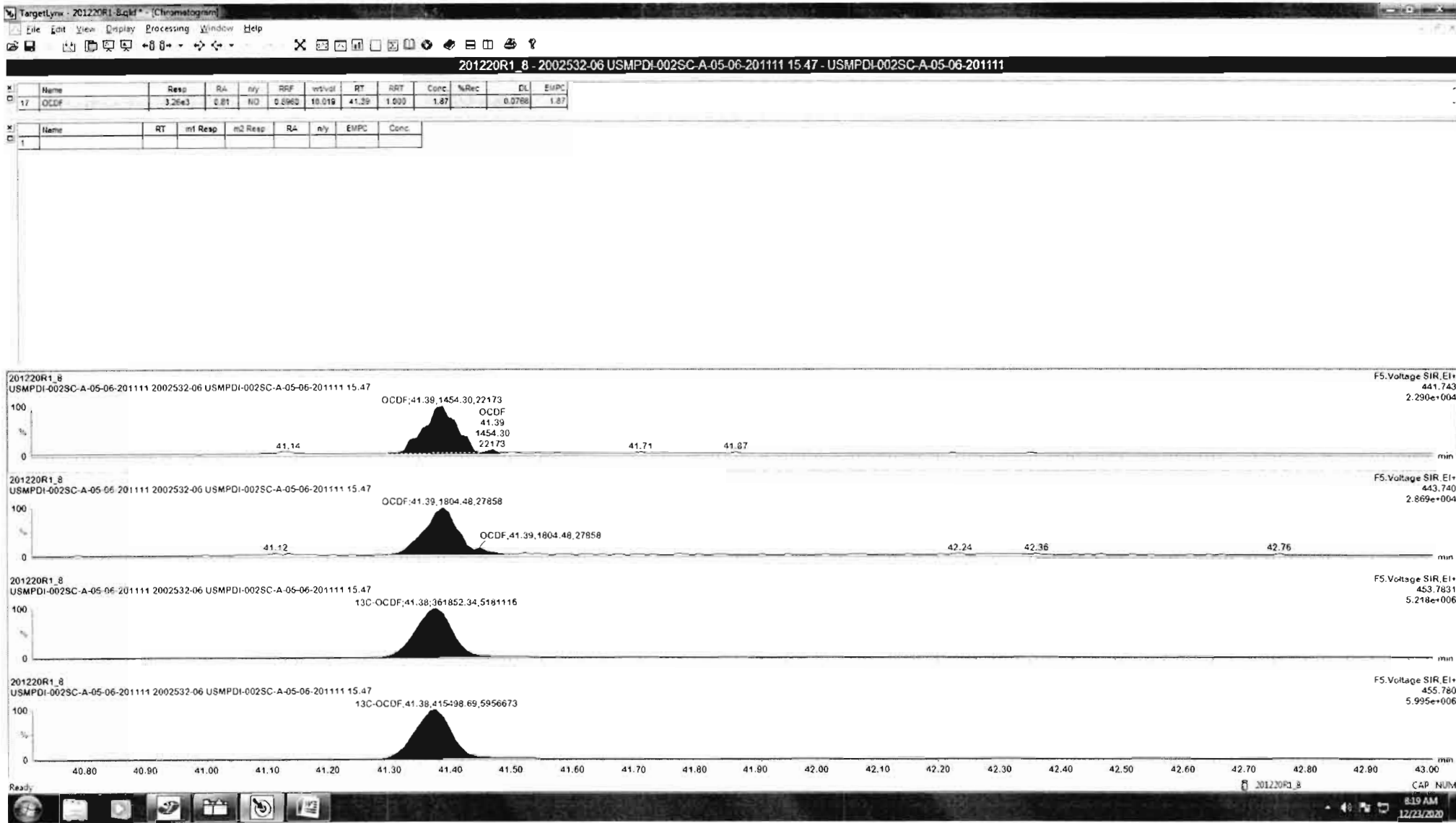


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Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

Name: 201220R1_8, Date: 20-Dec-2020, Time: 13:41:32, ID: 2002532-06 USMPDI-002SC-A-05-06-201111 15.47, Description: USMPDI-002SC-A-05-06-201111

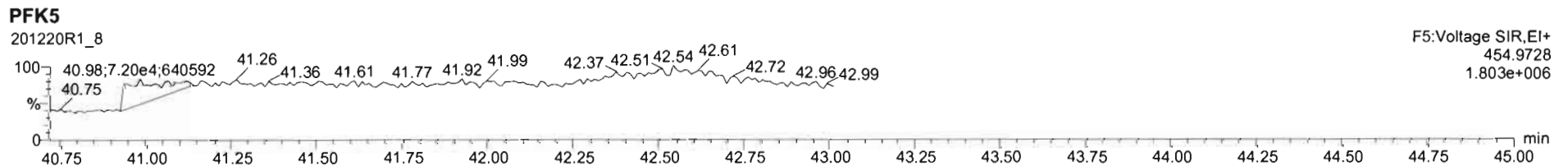
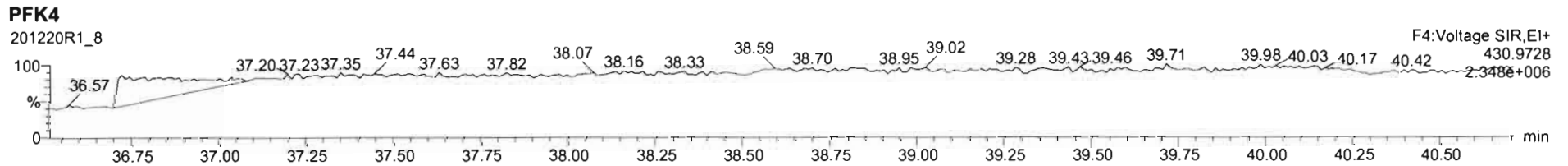
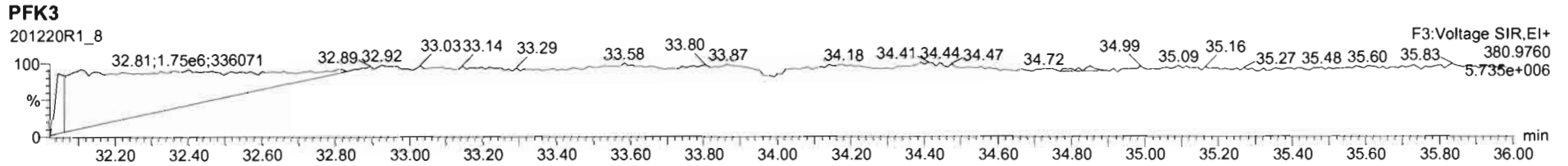
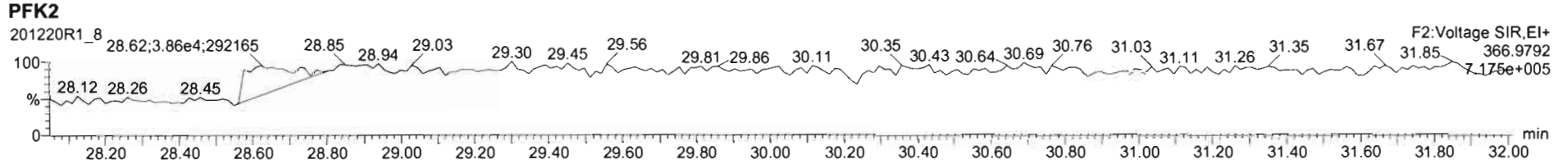
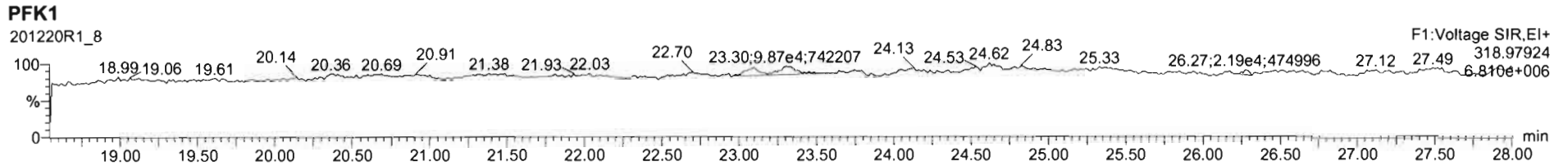




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Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

Name: 201220R1_8, Date: 20-Dec-2020, Time: 13:41:32, ID: 2002532-06 USMPDI-002SC-A-05-06-201111 15.47, Description: USMPDI-002SC-A-05-06-201111



Dataset: U:\VG12.PRO\Results\201220R1\201220R1-9B.qld

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Printed: Monday, December 28, 2020 8:03:17 AM Pacific Standard Time

GRB 12/28/2020

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

**SEE DIL-*

TLL 12/31/20

Name: 201220R1_9, Date: 20-Dec-2020, Time: 14:25:47, ID: 2002532-07 USMPDI-004SC-A-01-02-201111 17.52, Description: USMPDI-004SC-A-01-02-201111

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1	1 2,3,7,8-TCDD	3.20e3	0.67	NO	0.980	10.051	26.337	26.32	1.001	1.001	0.94323		0.0738	0.943
2	2 1,2,3,7,8-PeCDD	6.93e3	0.60	NO	0.932	10.051	31.049	31.03	1.001	1.000	2.6568		0.100	2.66
3	3 1,2,3,4,7,8-HxCDD	8.27e3	1.18	NO	1.02	10.051	34.337	34.33	1.001	1.000	4.1827		0.670	4.18
4	4 1,2,3,6,7,8-HxCDD	5.99e4	1.25	NO	0.902	10.051	34.462	34.45	1.001	1.000	30.984		0.690	31.0
5	5 1,2,3,7,8,9-HxCDD	1.88e4	1.20	NO	0.954	10.051	34.724	34.72	1.000	1.000	9.3036		0.695	9.30
6	6 1,2,3,4,6,7,8-HpCDD	1.45e6	1.03	NO	0.918	10.051	38.190	38.19	1.000	1.000	840.60		2.13	841
7	7 OCDD	9.84e6	0.88	NO	0.866	10.051	41.103	41.12	1.000	1.001	7160.3 <i>EX</i>		2.04	7160
8	8 2,3,7,8-TCDF	7.89e4	0.73	NO	0.848	10.051	25.613	25.64	1.000	1.001	20.179		0.138	20.2
9	9 1,2,3,7,8-PeCDF	1.61e5	1.57	NO	0.960	10.051	29.754	29.77	1.000	1.001	42.505		0.156	42.5
10	10 2,3,4,7,8-PeCDF	7.89e4	1.58	NO	1.07	10.051	30.844	30.84	1.001	1.000	20.037		0.138	20.0
11	11 1,2,3,4,7,8-HxCDF	2.53e5	1.22	NO	0.986	10.051	33.425	33.43	1.000	1.000	102.71		0.258	103
12	12 1,2,3,6,7,8-HxCDF	6.49e4	1.27	NO	1.04	10.051	33.571	33.56	1.001	1.000	25.646		0.260	25.6
13	13 2,3,4,6,7,8-HxCDF	1.79e4	1.19	NO	1.02	10.051	34.232	34.23	1.001	1.001	7.5283		0.292	7.53
14	14 1,2,3,7,8,9-HxCDF	4.45e3	1.09	NO	0.991	10.051	35.217	35.23	1.000	1.001	2.0408		0.343	2.04
15	15 1,2,3,4,6,7,8-HpCDF	1.65e5	0.99	NO	1.05	10.051	36.792	36.80	1.000	1.001	95.237		0.563	95.2
16	16 1,2,3,4,7,8,9-HpCDF	2.78e4	0.98	NO	1.18	10.051	38.817	38.82	1.000	1.000	15.998		0.426	16.0
17	17 OCDF	2.04e5	0.86	NO	0.896	10.051	41.396	41.40	1.000	1.000	146.44		0.331	146
18	18 13C-2,3,7,8-TCDD	6.89e5	0.77	NO	1.06	10.051	26.307	26.31	1.030	1.030	192.10	96.5	0.162	
19	19 13C-1,2,3,7,8-PeCDD	5.57e5	0.62	NO	0.785	10.051	31.139	31.02	1.219	1.215	208.88	105	0.255	
20	20 13C-1,2,3,4,7,8-HxCDD	3.85e5	1.28	NO	0.621	10.051	34.315	34.32	1.014	1.014	205.84	103	0.476	
21	21 13C-1,2,3,6,7,8-HxCDD	4.26e5	1.28	NO	0.734	10.051	34.437	34.44	1.017	1.017	192.34	96.7	0.403	
22	22 13C-1,2,3,7,8,9-HxCDD	4.21e5	1.22	NO	0.723	10.051	34.722	34.71	1.026	1.025	192.92	97.0	0.409	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.74e5	1.04	NO	0.568	10.051	38.219	38.18	1.129	1.128	218.21	110	0.946	
24	24 13C-OCDD	6.32e5	0.90	NO	0.496	10.051	41.154	41.10	1.216	1.214	422.45	106	0.753	
25	25 13C-2,3,7,8-TCDF	9.17e5	0.78	NO	0.919	10.051	25.608	25.61	1.003	1.003	194.22	97.6	0.262	
26	26 13C-1,2,3,7,8-PeCDF	7.85e5	1.61	NO	0.715	10.051	29.852	29.75	1.169	1.165	213.68	107	0.380	
27	27 13C-2,3,4,7,8-PeCDF	7.35e5	1.59	NO	0.689	10.051	30.937	30.82	1.212	1.207	207.62	104	0.394	
28	28 13C-1,2,3,4,7,8-HxCDF	4.98e5	0.50	NO	0.873	10.051	33.422	33.42	0.987	0.987	189.02	95.0	0.539	
29	29 13C-1,2,3,6,7,8-HxCDF	4.85e5	0.50	NO	0.933	10.051	33.550	33.55	0.991	0.991	172.11	86.5	0.504	
30	30 13C-2,3,4,6,7,8-HxCDF	4.63e5	0.51	NO	0.843	10.051	34.217	34.21	1.011	1.011	181.94	91.4	0.558	
31	31 13C-1,2,3,7,8,9-HxCDF	4.38e5	0.51	NO	0.780	10.051	35.216	35.21	1.040	1.040	186.09	93.5	0.603	

Dataset: U:\WG12.PRO\Results\201220R1\201220R1-9B.qld

Last Altered: Monday, December 28, 2020 8:03:02 AM Pacific Standard Time
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Name: 201220R1_9, Date: 20-Dec-2020, Time: 14:25:47, ID: 2002532-07 USMPDI-004SC-A-01-02-201111 17.52, Description: USMPDI-004SC-A-01-02-201111

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.28e5	0.44	NO	0.726	10.051	36.790	36.77	1.087	1.086	149.70	75.2	0.701	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.94e5	0.43	NO	0.491	10.051	38.798	38.81	1.146	1.146	198.66	99.8	1.04	
34	34 13C-OCDF	6.18e5	0.88	NO	0.565	10.051	41.371	41.39	1.222	1.223	362.29	91.0	0.655	
35	35 37Cl-2,3,7,8-TCDD	3.23e5			1.22	10.051	26.302	26.33	1.030	1.031	78.288	98.4	0.0899	
36	36 13C-1,2,3,4-TCDD	6.76e5	0.79	NO	1.00	10.051	25.640	25.54	1.000	1.000	198.99	100	0.171	
37	37 13C-1,2,3,4-TCDF	1.02e6	0.79	NO	1.00	10.051	24.130	24.03	1.000	1.000	198.99	100	0.240	
38	38 13C-1,2,3,4,6,9-HxCDF	6.00e5	0.50	NO	1.00	10.051	33.920	33.85	1.000	1.000	198.99	100	0.470	
39	39 Total Tetra-Dioxins				0.980	10.051	24.620		0.000		12.242		0.0738	12.6
40	40 Total Penta-Dioxins				0.932	10.051	29.960		0.000		26.729		0.100	31.0
41	41 Total Hexa-Dioxins				0.902	10.051	33.635		0.000		337.58		0.727	338
42	42 Total Hepta-Dioxins				0.918	10.051	37.640		0.000		2457.4		2.13	2460
43	43 Total Tetra-Furans				0.848	10.051	23.610		0.000		74.823		0.138	75.0
44	44 1st Func. Penta-Furans				0.960	10.051	26.930		0.000		34.496		0.0212	34.5
45	45 Total Penta-Furans				0.960	10.051	29.275		0.000		112.05		0.155	112
46	46 Total Hexa-Furans				1.02	10.051	33.555		0.000		269.44		0.283	269
47	47 Total Hepta-Furans				1.05	10.051	37.835		0.000		250.26		0.522	250

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Last Altered: Monday, December 28, 2020 8:03:02 AM Pacific Standard Time

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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: 201220R1_9, Date: 20-Dec-2020, Time: 14:25:47, ID: 2002532-07 USMPDI-004SC-A-01-02-201111 17.52, Description: USMPDI-004SC-A-01-02-201111

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.48	6.162e4	8.126e4	5.894e3	7.456e3	0.79	NO	1.335e4	3.9352	3.9352	0.0738
2	Total Tetra-Dioxins	22.84	2.275e4	2.742e4	2.103e3	2.465e3	0.85	NO	4.568e3	1.3465	1.3465	0.0738
3	Total Tetra-Dioxins	23.36	1.707e4	2.429e4	1.468e3	1.839e3	0.80	NO	3.307e3	0.97469	0.97469	0.0738
4	Total Tetra-Dioxins	24.24	6.473e3	8.783e3	5.835e2	6.628e2	0.88	NO	1.246e3	0.36734	0.36734	0.0738
5	Total Tetra-Dioxins	24.44	1.102e4	1.268e4	8.954e2	1.034e3	0.87	NO	1.929e3	0.56859	0.56859	0.0738
6	Total Tetra-Dioxins	24.68	2.538e4	3.291e4	1.867e3	2.217e3	0.84	NO	4.084e3	1.2038	1.2038	0.0738
7	Total Tetra-Dioxins	24.89	7.820e3	7.308e3	4.508e2	4.769e2	0.95	YES	0.000e0	0.00000	0.24883	0.0738
8	Total Tetra-Dioxins	25.18	1.099e4	1.285e4	7.034e2	8.581e2	0.82	NO	1.561e3	0.46025	0.46025	0.0738
9	Total Tetra-Dioxins	25.24	8.113e3	8.260e3	4.976e2	5.645e2	0.88	NO	1.062e3	0.31305	0.31305	0.0738
10	Total Tetra-Dioxins	25.58	3.529e3	3.723e3	2.239e2	2.284e2	0.98	YES	0.000e0	0.00000	0.11916	0.0738
11	Total Tetra-Dioxins	25.63	6.856e3	6.978e3	3.894e2	4.804e2	0.81	NO	8.698e2	0.25637	0.25637	0.0738
12	Total Tetra-Dioxins	26.05	3.054e4	3.586e4	2.061e3	2.633e3	0.78	NO	4.694e3	1.3836	1.3836	0.0738
13	2,3,7,8-TCDD	26.32	1.951e4	3.036e4	1.279e3	1.921e3	0.67	NO	3.200e3	0.94323	0.94323	0.0738
14	Total Tetra-Dioxins	26.65	9.676e3	9.796e3	5.096e2	6.930e2	0.74	NO	1.203e3	0.35449	0.35449	0.0738
15	Total Tetra-Dioxins	27.21	3.894e3	5.042e3	2.004e2	2.563e2	0.78	NO	4.566e2	0.13459	0.13459	0.0738

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.76	1.446e5	2.356e5	1.181e4	1.869e4	0.63	NO	3.050e4	11.701	11.701	0.100
2	Total Penta-Dioxins	29.24	5.333e4	9.336e4	3.080e3	5.115e3	0.60	NO	8.195e3	3.1437	3.1437	0.100
3	Total Penta-Dioxins	29.77	6.610e4	1.154e5	3.560e3	5.429e3	0.66	NO	8.989e3	3.4484	3.4484	0.100
4	Total Penta-Dioxins	29.95	5.385e4	9.072e4	2.766e3	4.213e3	0.66	NO	0.000e0	0.00000	2.6774	0.100
5	Total Penta-Dioxins	29.99	3.557e4	6.426e4	1.594e3	2.601e3	0.61	NO	0.000e0	0.00000	1.6096	0.100
6	Total Penta-Dioxins	30.25	6.894e4	9.231e4	3.905e3	5.779e3	0.68	NO	9.684e3	3.7151	3.7151	0.100
7	Total Penta-Dioxins	30.57	1.200e4	2.198e4	6.674e2	1.171e3	0.57	NO	1.839e3	0.70533	0.70533	0.100
8	1,2,3,7,8-PeCDD	31.03	5.179e4	8.631e4	2.601e3	4.325e3	0.60	NO	6.926e3	2.6568	2.6568	0.100
9	Total Penta-Dioxins	31.11	1.136e4	1.874e4	6.583e2	9.987e2	0.66	NO	1.657e3	0.63565	0.63565	0.100
10	Total Penta-Dioxins	31.40	1.345e4	2.006e4	7.746e2	1.111e3	0.70	NO	1.885e3	0.72323	0.72323	0.100

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Last Altered: Monday, December 28, 2020 8:03:02 AM Pacific Standard Time

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Name: 201220R1_9, Date: 20-Dec-2020, Time: 14:25:47, ID: 2002532-07 USMPDI-004SC-A-01-02-201111 17.52, Description: USMPDI-004SC-A-01-02-201111

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.69	3.124e6	2.516e6	1.475e5	1.171e5	1.26	NO	2.647e5	142.10	142.10	0.727
2	Total Hexa-Dioxins	33.29	2.773e5	2.314e5	1.396e4	1.129e4	1.24	NO	2.525e4	13.556	13.556	0.727
3	Total Hexa-Dioxins	33.58	1.765e6	1.438e6	1.186e5	9.614e4	1.23	NO	2.147e5	115.30	115.30	0.727
4	Total Hexa-Dioxins	33.69	3.450e5	2.739e5	1.820e4	1.401e4	1.30	NO	3.221e4	17.295	17.295	0.727
5	1,2,3,4,7,8-HxCDD	34.33	8.534e4	6.896e4	4.480e3	3.785e3	1.18	NO	8.265e3	4.1827	4.1827	0.670
6	1,2,3,6,7,8-HxCDD	34.45	6.024e5	4.788e5	3.326e4	2.660e4	1.25	NO	5.986e4	30.984	30.984	0.690
7	Total Hexa-Dioxins	34.61	9.367e4	7.073e4	4.867e3	4.191e3	1.16	NO	9.058e3	4.8633	4.8633	0.727
8	1,2,3,7,8,9-HxCDD	34.72	1.713e5	1.482e5	1.025e4	8.515e3	1.20	NO	1.877e4	9.3036	9.3036	0.695

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.17	2.019e7	1.965e7	1.406e6	1.382e6	1.02	NO	2.788e6	1616.8	1616.8	2.13
2	1,2,3,4,6,7,8-HpCDD	38.19	1.296e7	1.277e7	7.359e5	7.137e5	1.03	NO	1.450e6	840.60	840.60	2.13

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Dataset: U:\VG12.PRO\Results\201220R1\201220R1-9B.qld

Last Altered: Monday, December 28, 2020 8:03:02 AM Pacific Standard Time

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Name: 201220R1_9, Date: 20-Dec-2020, Time: 14:25:47, ID: 2002532-07 USMPDI-004SC-A-01-02-201111 17.52, Description: USMPDI-004SC-A-01-02-201111

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.23	1.860e4	1.799e4	1.283e3	1.586e3	0.81	NO	2.869e3	0.73402	0.73402	0.138
2	Total Tetra-Furans	20.79	2.400e4	2.859e4	1.930e3	2.619e3	0.74	NO	4.549e3	1.1640	1.1640	0.138
3	Total Tetra-Furans	21.59	9.209e4	1.223e5	8.218e3	1.134e4	0.72	NO	1.955e4	5.0034	5.0034	0.138
4	Total Tetra-Furans	21.97	8.758e3	1.172e4	6.172e2	9.191e2	0.67	NO	1.536e3	0.39309	0.39309	0.138
5	Total Tetra-Furans	22.06	3.267e4	3.782e4	3.202e3	4.004e3	0.80	NO	7.205e3	1.8436	1.8436	0.138
6	Total Tetra-Furans	22.15	1.303e4	1.666e4	9.432e2	1.395e3	0.68	NO	2.338e3	0.59830	0.59830	0.138
7	Total Tetra-Furans	22.43	9.147e3	1.020e4	4.774e2	6.181e2	0.77	NO	1.095e3	0.28030	0.28030	0.138
8	Total Tetra-Furans	22.52	1.207e5	1.717e5	1.118e4	1.503e4	0.74	NO	2.620e4	6.7050	6.7050	0.138
9	Total Tetra-Furans	23.01	7.244e4	1.043e5	6.858e3	9.168e3	0.75	NO	1.603e4	4.1004	4.1004	0.138
10	Total Tetra-Furans	23.14	1.740e4	2.224e4	1.184e3	1.476e3	0.80	NO	2.661e3	0.68075	0.68075	0.138
11	Total Tetra-Furans	23.36	3.183e4	4.497e4	2.562e3	3.506e3	0.73	NO	6.068e3	1.5526	1.5526	0.138
12	Total Tetra-Furans	23.78	8.510e3	9.588e3	5.032e2	6.956e2	0.72	NO	1.199e3	0.30675	0.30675	0.138
13	Total Tetra-Furans	23.90	1.317e4	1.365e4	9.273e2	1.198e3	0.77	NO	2.125e3	0.54379	0.54379	0.138
14	Total Tetra-Furans	24.12	6.108e4	8.394e4	4.502e3	6.292e3	0.72	NO	1.079e4	2.7618	2.7618	0.138
15	Total Tetra-Furans	24.16	6.195e4	7.959e4	4.369e3	5.952e3	0.73	NO	1.032e4	2.6409	2.6409	0.138
16	Total Tetra-Furans	24.60	3.994e5	5.322e5	2.800e4	3.830e4	0.73	NO	6.629e4	16.963	16.963	0.138
17	Total Tetra-Furans	24.93	2.547e4	2.841e4	1.569e3	1.790e3	0.88	NO	3.360e3	0.85960	0.85960	0.138
18	Total Tetra-Furans	25.03	6.234e3	6.312e3	3.183e2	3.655e2	0.87	NO	6.838e2	0.17496	0.17496	0.138
19	Total Tetra-Furans	25.18	5.070e3	6.106e3	2.879e2	3.812e2	0.76	NO	6.691e2	0.17120	0.17120	0.138
20	Total Tetra-Furans	25.34	1.153e4	1.519e4	7.059e2	9.949e2	0.71	NO	1.701e3	0.43518	0.43518	0.138
21	Total Tetra-Furans	25.51	6.729e4	9.525e4	4.247e3	5.558e3	0.76	NO	9.805e3	2.5087	2.5087	0.138
22	2,3,7,8-TCDF	25.64	5.096e5	6.950e5	3.320e4	4.566e4	0.73	NO	7.886e4	20.179	20.179	0.138
23	Total Tetra-Furans	25.88	9.982e3	1.379e4	5.719e2	8.323e2	0.69	NO	1.404e3	0.35929	0.35929	0.138
24	Total Tetra-Furans	25.95	2.400e4	3.119e4	1.638e3	2.224e3	0.74	NO	3.862e3	0.98813	0.98813	0.138
25	Total Tetra-Furans	26.20	8.264e3	1.194e4	5.176e2	7.218e2	0.72	NO	1.239e3	0.31714	0.31714	0.138
26	Total Tetra-Furans	26.85	4.527e3	4.417e3	4.040e2	3.779e2	1.07	YES	0.000e0	0.00000	0.17117	0.138
27	Total Tetra-Furans	27.15	3.192e4	4.007e4	1.897e3	2.517e3	0.75	NO	4.413e3	1.1292	1.1292	0.138
28	Total Tetra-Furans	27.53	4.365e4	4.930e4	2.392e3	3.196e3	0.75	NO	5.587e3	1.4297	1.4297	0.138

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Last Altered: Monday, December 28, 2020 8:03:02 AM Pacific Standard Time

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Name: 201220R1_9, Date: 20-Dec-2020, Time: 14:25:47, ID: 2002532-07 USMPDI-004SC-A-01-02-201111 17.52, Description: USMPDI-004SC-A-01-02-201111

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	27.13	1.326e6	8.388e5	7.769e4	4.873e4	1.59	NO	1.264e5	34.496	34.496	0.0212

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.61	5.410e4	3.132e4	3.471e3	1.995e3	1.74	NO	5.466e3	1.4915	1.4915	0.155
2	Total Penta-Furans	28.79	1.020e6	6.770e5	6.158e4	3.884e4	1.59	NO	1.004e5	27.403	27.403	0.155
3	Total Penta-Furans	29.21	1.216e4	7.222e3	8.548e2	6.187e2	1.38	NO	1.474e3	0.40210	0.40210	0.155
4	Total Penta-Furans	29.41	1.611e5	1.027e5	9.432e3	6.025e3	1.57	NO	1.546e4	4.2183	4.2183	0.155
5	Total Penta-Furans	29.57	1.233e5	7.579e4	6.145e3	4.000e3	1.54	NO	1.015e4	2.7685	2.7685	0.155
6	1,2,3,7,8-PeCDF	29.77	2.005e6	1.260e6	9.843e4	6.252e4	1.57	NO	1.610e5	42.505	42.505	0.156
7	Total Penta-Furans	30.02	5.664e5	3.404e5	2.667e4	1.680e4	1.59	NO	4.347e4	11.864	11.864	0.155
8	Total Penta-Furans	30.64	1.950e4	1.442e4	1.002e3	6.834e2	1.47	NO	1.686e3	0.46002	0.46002	0.155
9	2,3,4,7,8-PeCDF	30.84	9.910e5	6.406e5	4.832e4	3.061e4	1.58	NO	7.893e4	20.037	20.037	0.138
10	Total Penta-Furans	31.74	4.242e4	2.675e4	2.021e3	1.282e3	1.58	NO	3.303e3	0.90140	0.90140	0.155

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.17	4.289e5	3.429e5	1.980e4	1.607e4	1.23	NO	3.587e4	14.860	14.860	0.283
2	Total Hexa-Furans	32.34	1.344e6	1.114e6	6.091e4	4.997e4	1.22	NO	1.109e5	45.933	45.933	0.283
3	Total Hexa-Furans	32.74	1.698e4	1.505e4	9.708e2	7.628e2	1.27	NO	1.734e3	0.71811	0.71811	0.283
4	Total Hexa-Furans	32.96	1.733e6	1.426e6	8.359e4	6.712e4	1.25	NO	1.507e5	62.430	62.430	0.283
5	Total Hexa-Furans	33.29	2.234e4	2.172e4	1.187e3	9.404e2	1.26	NO	2.128e3	0.88135	0.88135	0.283
6	1,2,3,4,7,8-HxCDF	33.43	2.771e6	2.264e6	1.394e5	1.141e5	1.22	NO	2.535e5	102.71	102.71	0.258
7	1,2,3,6,7,8-HxCDF	33.56	7.005e5	5.627e5	3.626e4	2.864e4	1.27	NO	6.490e4	25.646	25.646	0.260
8	Total Hexa-Furans	33.88	9.594e3	9.530e3	6.175e2	5.218e2	1.18	NO	1.139e3	0.47195	0.47195	0.283
9	2,3,4,6,7,8-HxCDF	34.23	1.554e5	1.371e5	9.719e3	8.143e3	1.19	NO	1.786e4	7.5283	7.5283	0.292
10	1,2,3,7,8,9-HxCDF	35.23	1.135e5	9.612e4	2.317e3	2.133e3	1.09	NO	4.450e3	2.0408	2.0408	0.343
11	Total Hexa-Furans	35.25	1.692e5	1.312e5	8.311e3	6.714e3	1.24	NO	1.502e4	6.2239	6.2239	0.283

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201220R1\201220R1-9B.qld

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Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.80	1.186e6	1.178e6	8.211e4	8.265e4	0.99	NO	1.648e5	95.237	95.237	0.563
2	Total Hepta-Furans	37.19	1.716e4	1.802e4	2.150e3	2.078e3	1.03	NO	4.228e3	2.5765	2.5765	0.522
3	Total Hepta-Furans	37.52	1.725e6	1.672e6	1.123e5	1.117e5	1.01	NO	2.239e5	136.45	136.45	0.522
4	1,2,3,4,7,8,9-HpCDF	38.82	2.522e5	2.599e5	1.380e4	1.402e4	0.98	NO	2.783e4	15.998	15.998	0.426

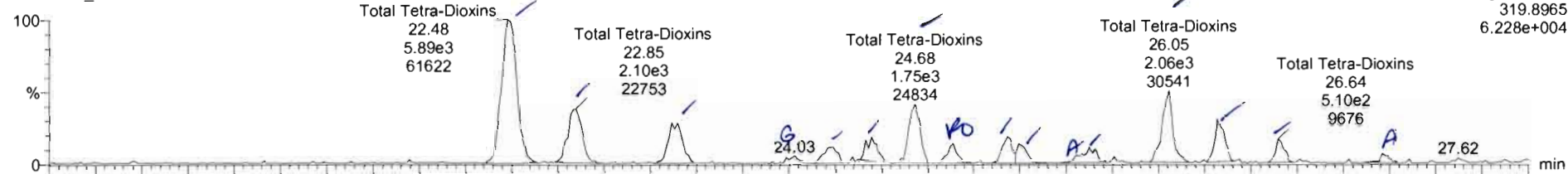
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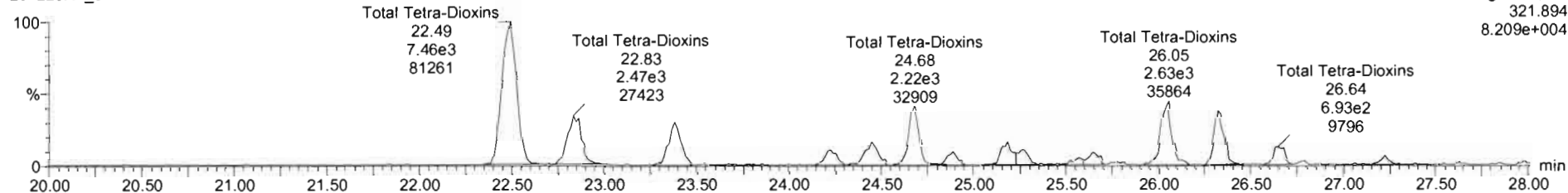
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2,3,7,8-TCDD

201220R1_9

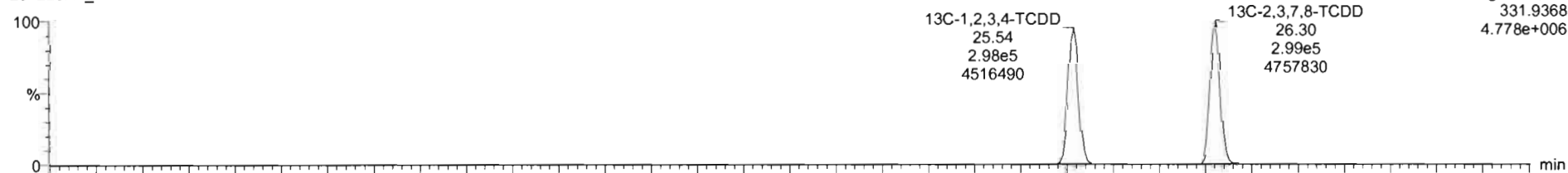


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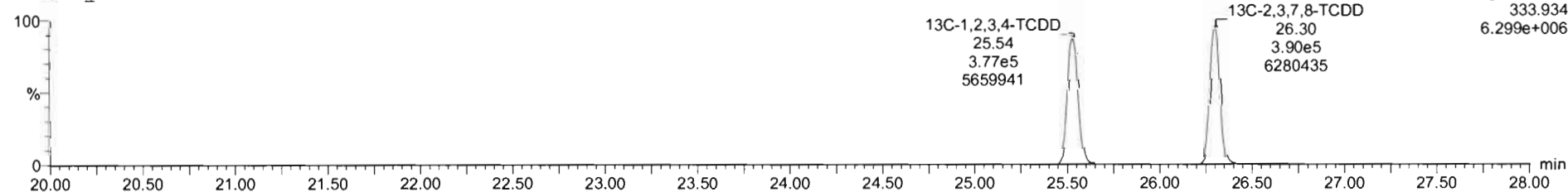


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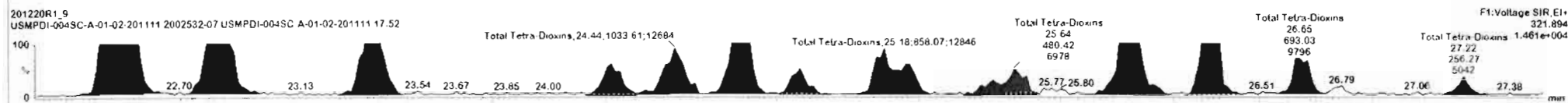
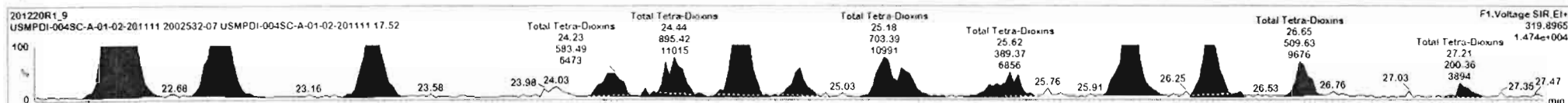


201220R1_9



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.8805	10.051			12.2		0.0738	12.6

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	22.48	5.894e3	7.466e3	0.79	NO	3.9362	1.9212
2 Total Tetra-Dioxins	22.84	2.103e3	2.463e3	0.85	NO	1.3465	1.3465
3 Total Tetra-Dioxins	23.36	1.458e3	1.839e3	0.80	NO	0.97489	0.97489
4 Total Tetra-Dioxins	24.23	5.835e2	6.626e2	0.88	NO	0.36734	0.36734
5 Total Tetra-Dioxins	24.44	8.954e2	1.024e3	0.87	NO	0.58859	0.58859
6 Total Tetra-Dioxins	24.68	1.887e3	2.217e3	0.84	NO	1.2038	1.2038
7 Total Tetra-Dioxins	24.89	4.525e2	4.759e2	0.95	ES	0.24863	0.00000
8 Total Tetra-Dioxins	25.18	7.034e2	8.581e2	0.82	NO	0.46028	0.46028
9 Total Tetra-Dioxins	25.24	4.976e2	5.645e2	0.88	NO	0.31305	0.31305
10 Total Tetra-Dioxins	25.58	2.235e2	2.563e2	0.87	NO	0.14172	0.00000
11 Total Tetra-Dioxins	25.62	3.884e2	4.604e2	0.81	NO	0.25637	0.25637
12 Total Tetra-Dioxins	26.05	2.061e3	2.403e3	0.76	NO	1.3838	1.3838
13 2,3,7,8-TCDD	26.32	1.271e3	1.621e3	0.87	NO	0.94323	0.94323
14 Total Tetra-Dioxins	26.85	5.095e2	5.930e2	0.74	NO	0.25449	0.15449
15 Total Tetra-Dioxins	27.21	2.004e3	2.563e3	0.78	NO	0.13459	0.13459



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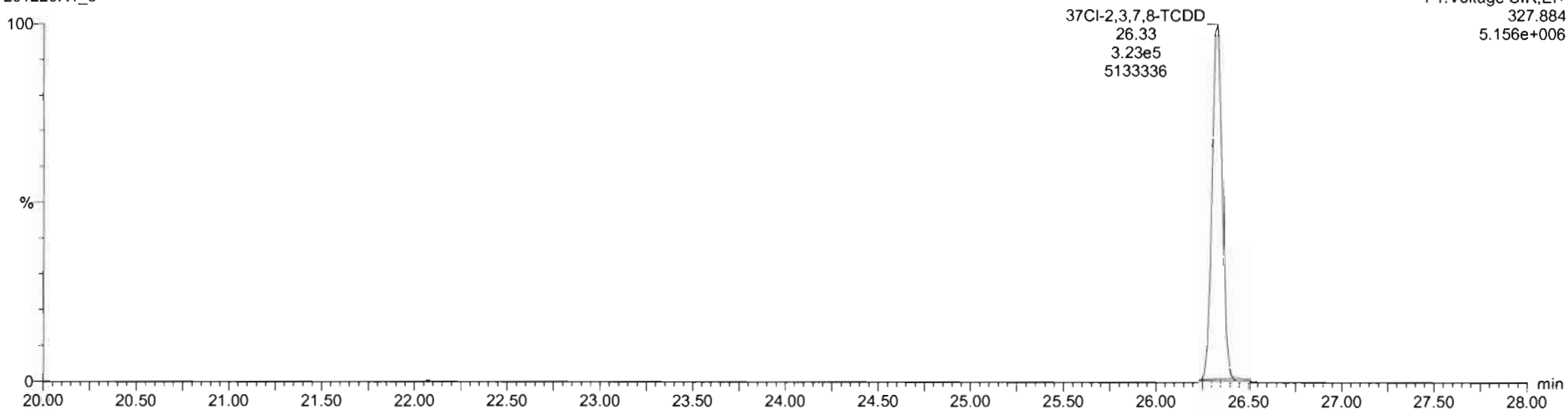
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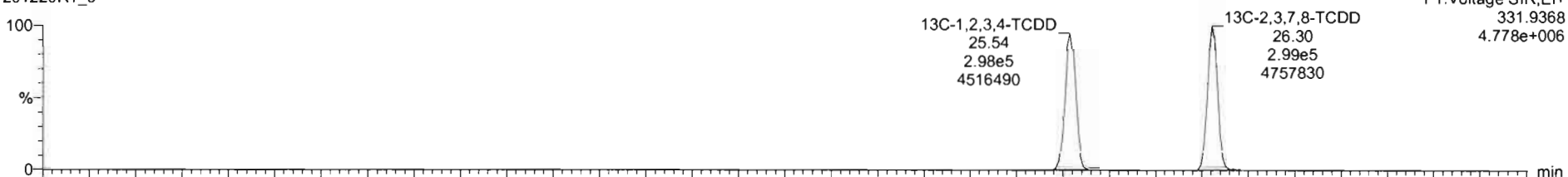
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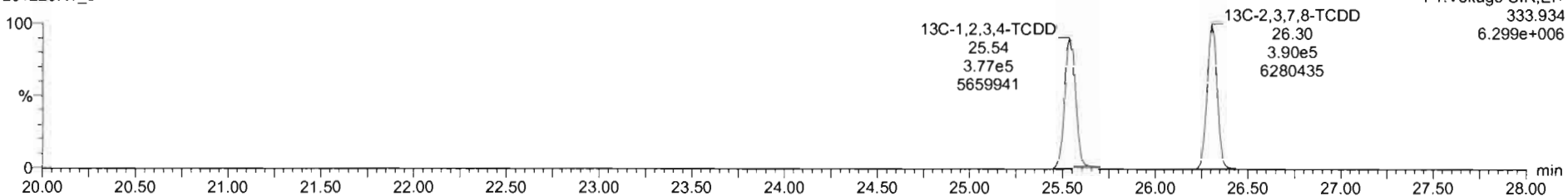


13C-1,2,3,4-TCDD

201220R1_9



201220R1_9

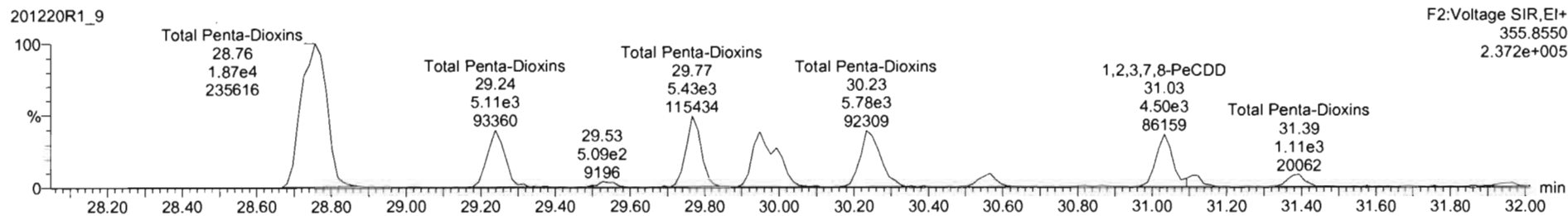
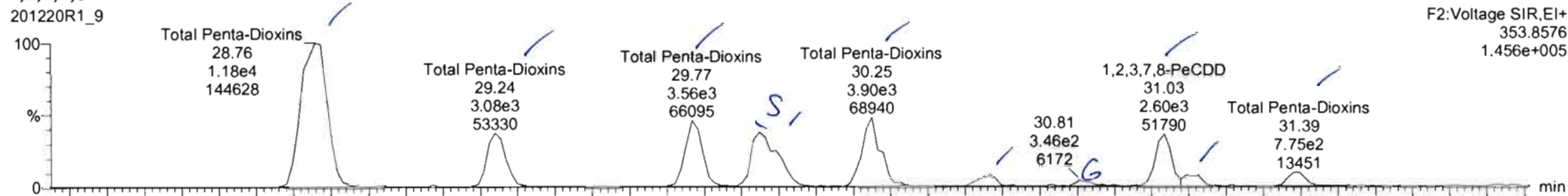


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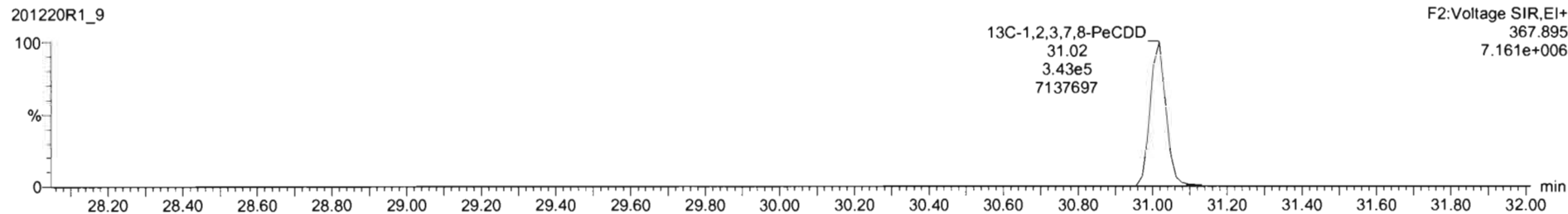
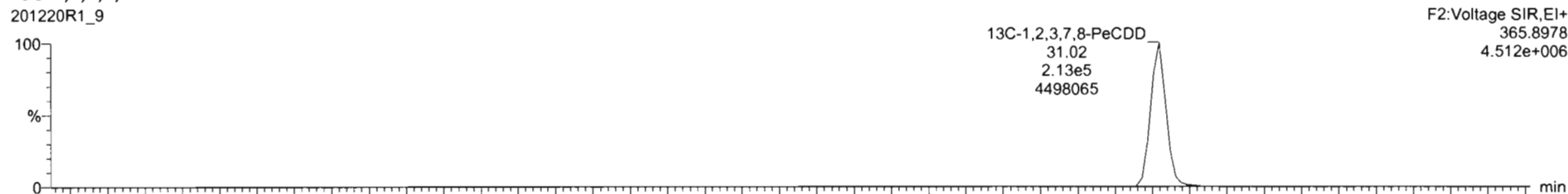
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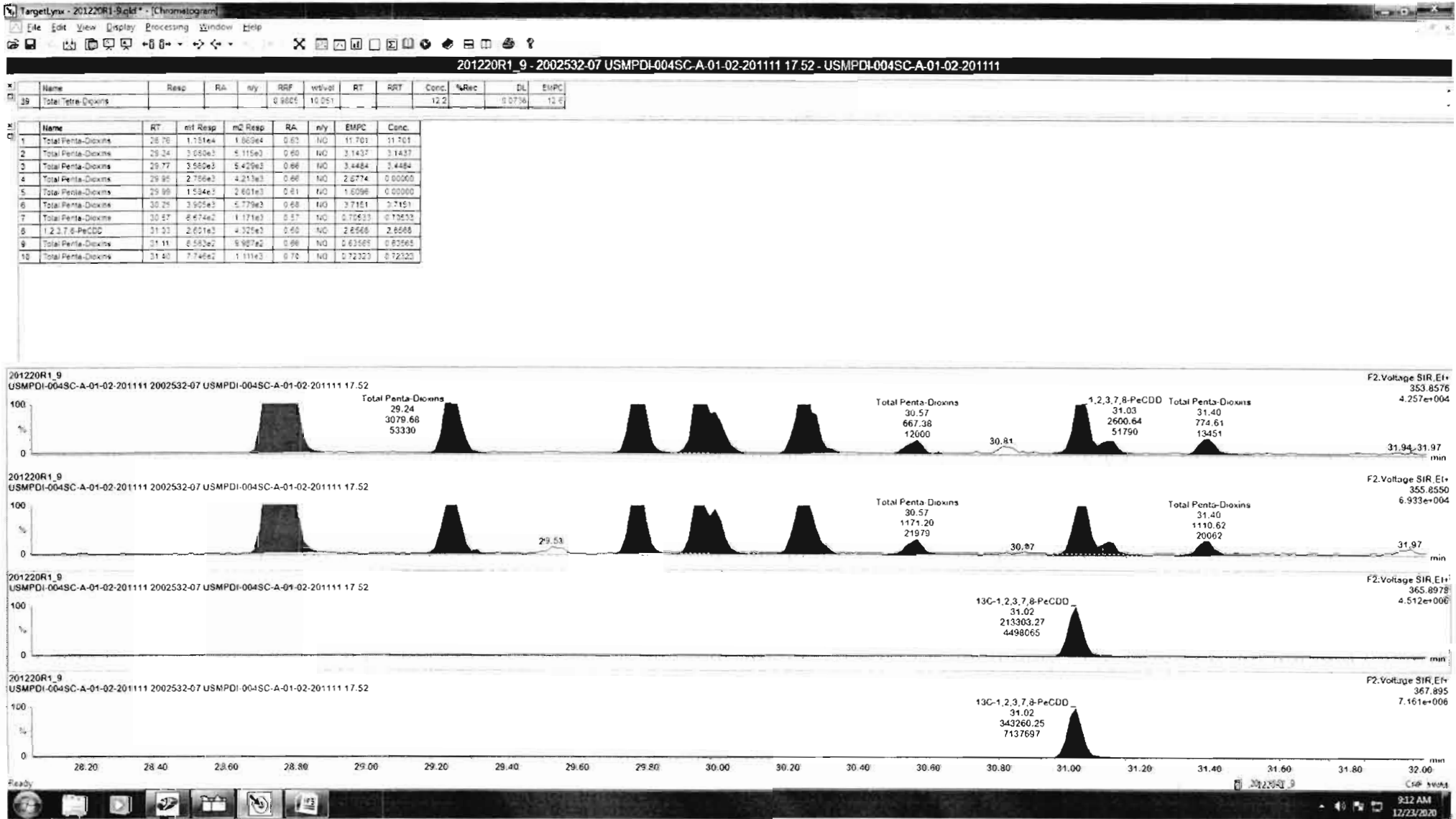
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1,2,3,7,8-PeCDD



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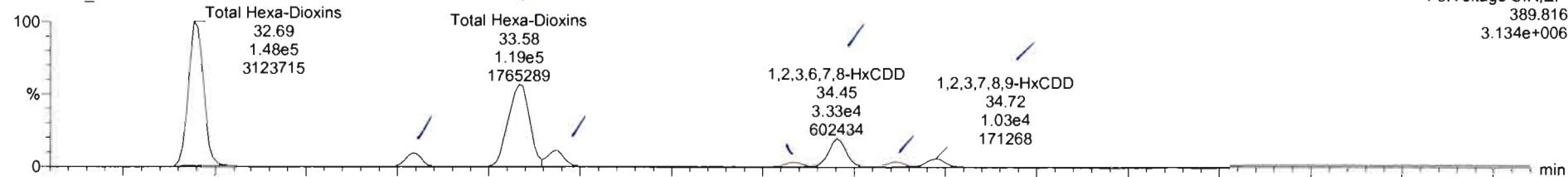
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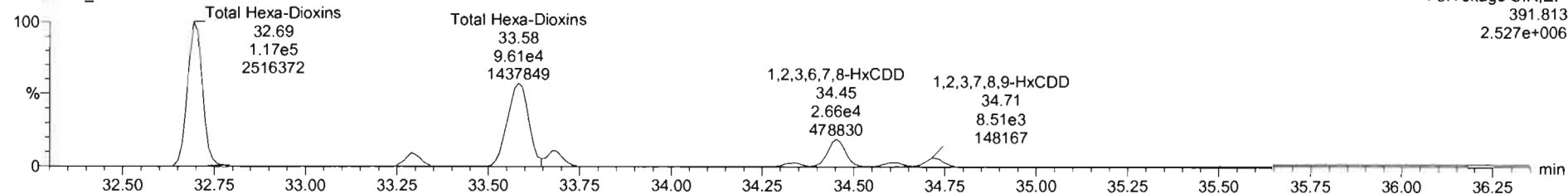
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1,2,3,4,7,8-HxCDD

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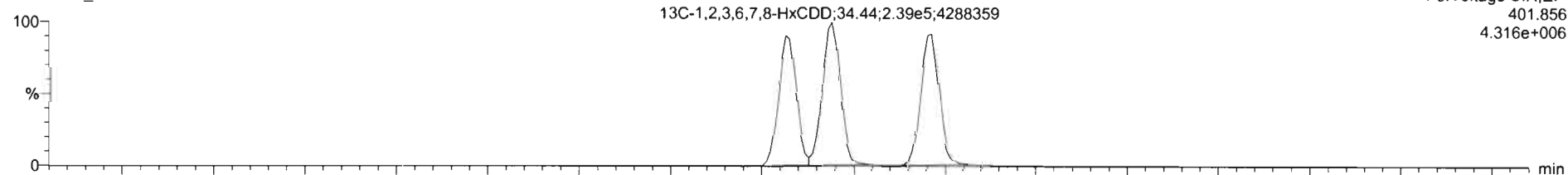


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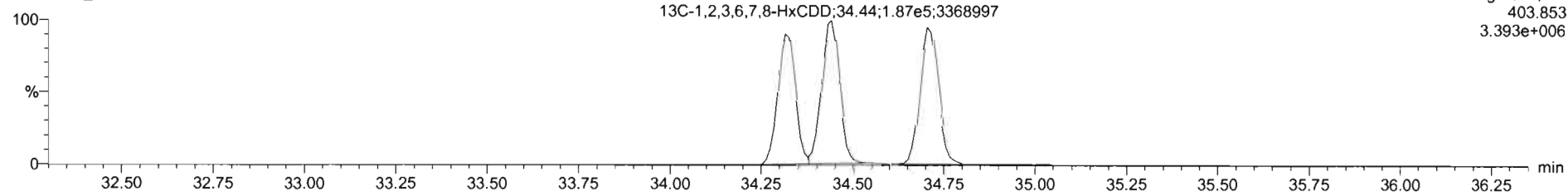


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201220R1_9



201220R1_9



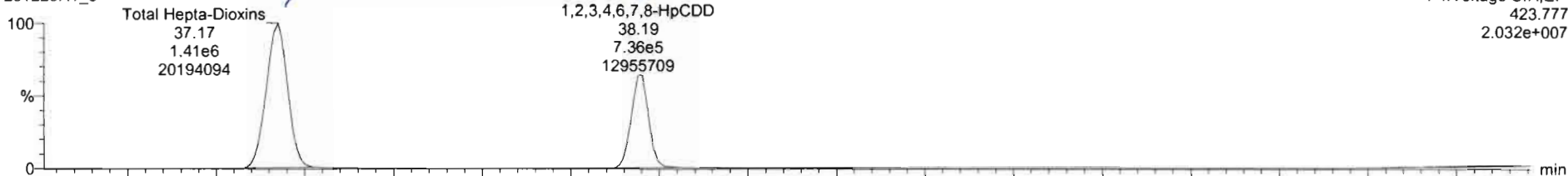
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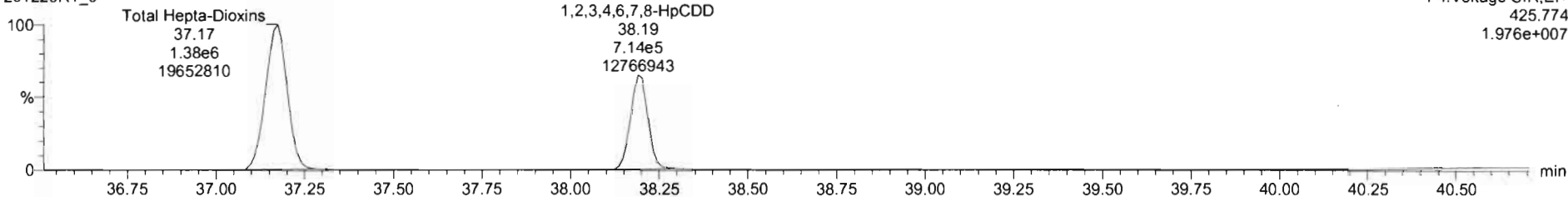
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1,2,3,4,6,7,8-HpCDD

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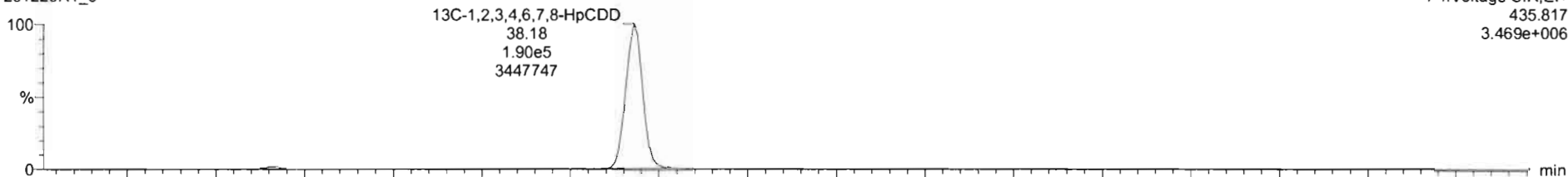


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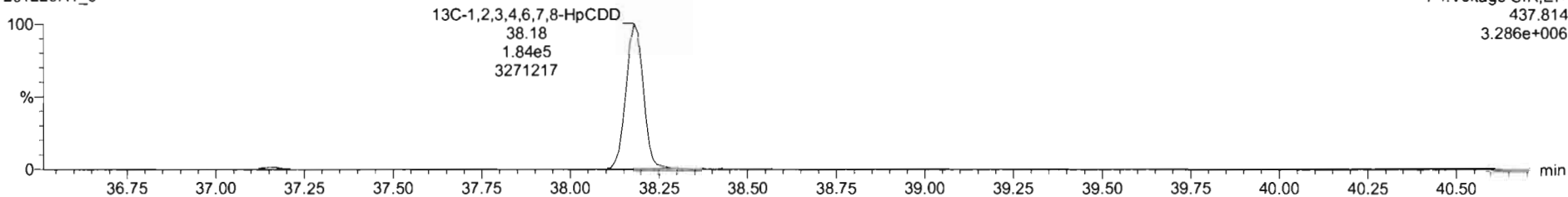


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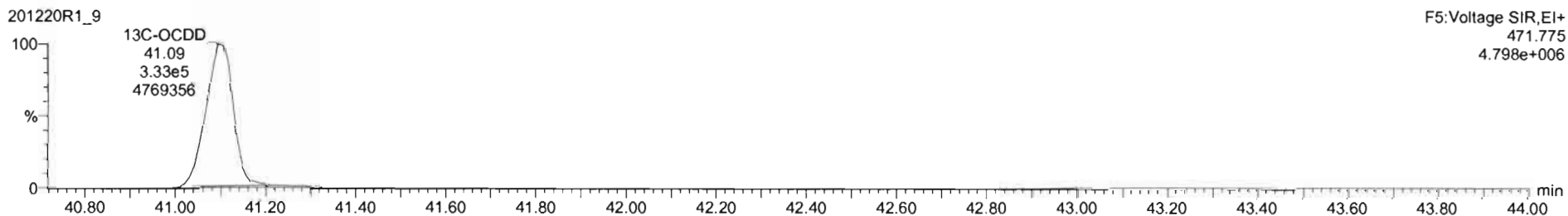
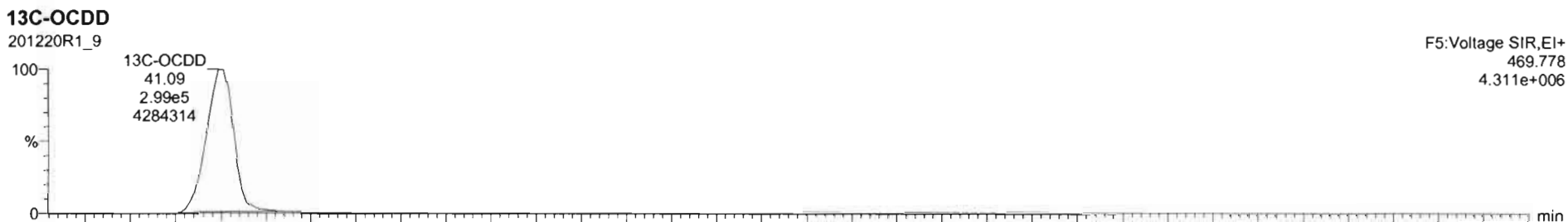
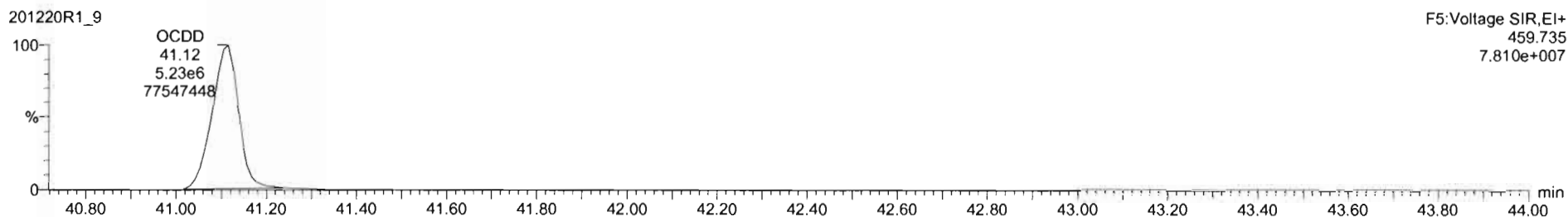
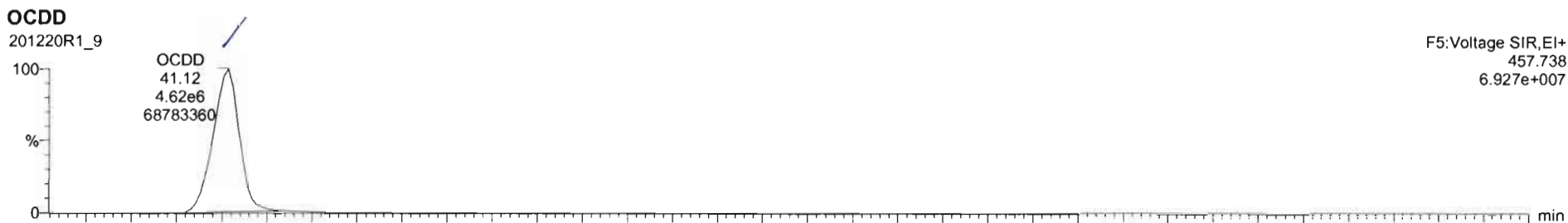
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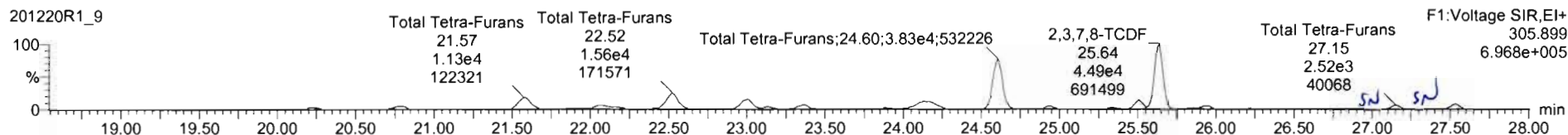
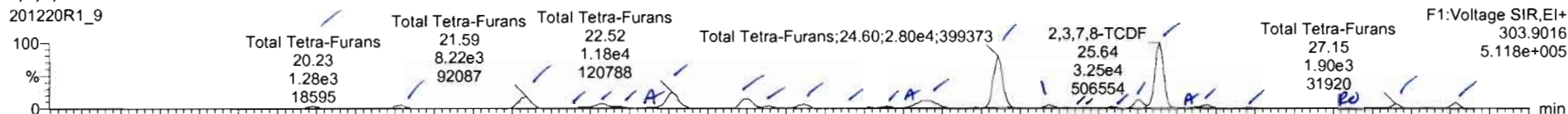


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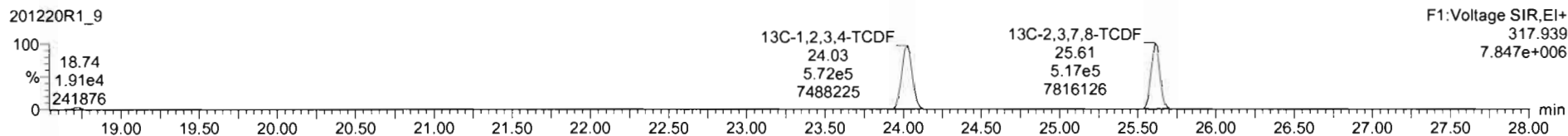
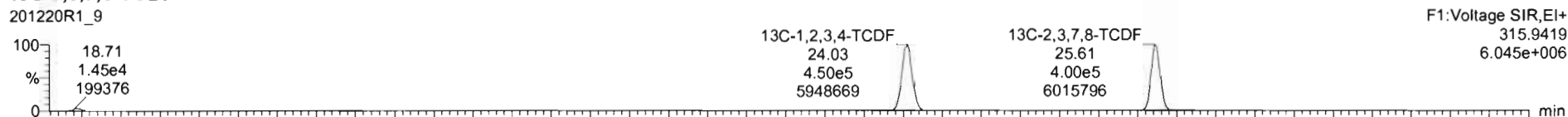
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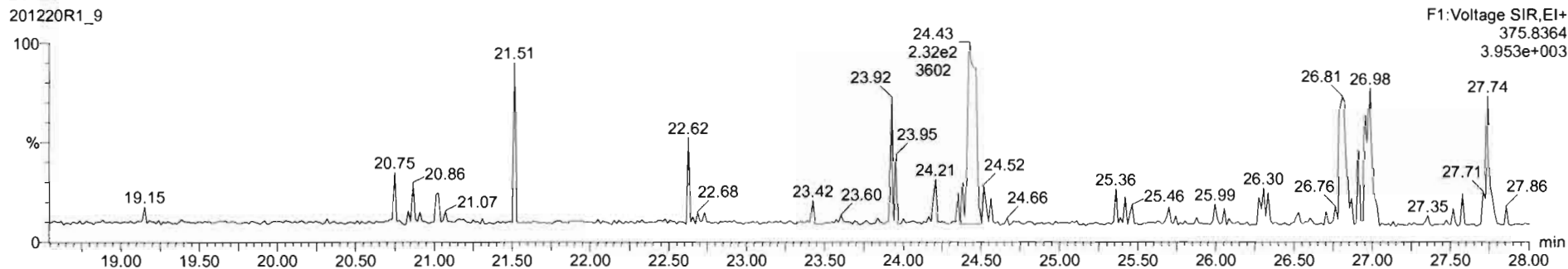
2,3,7,8-TCDF

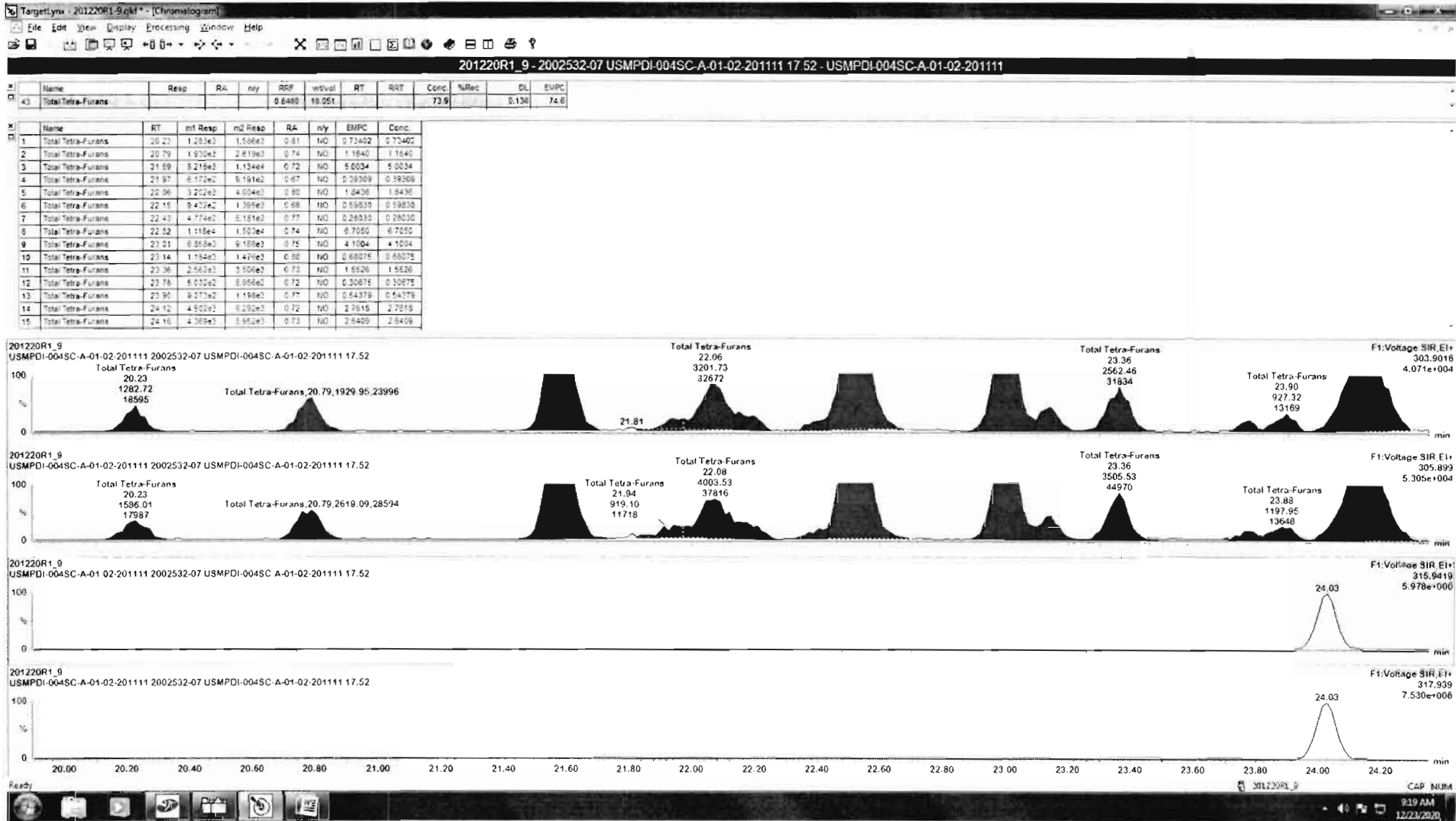


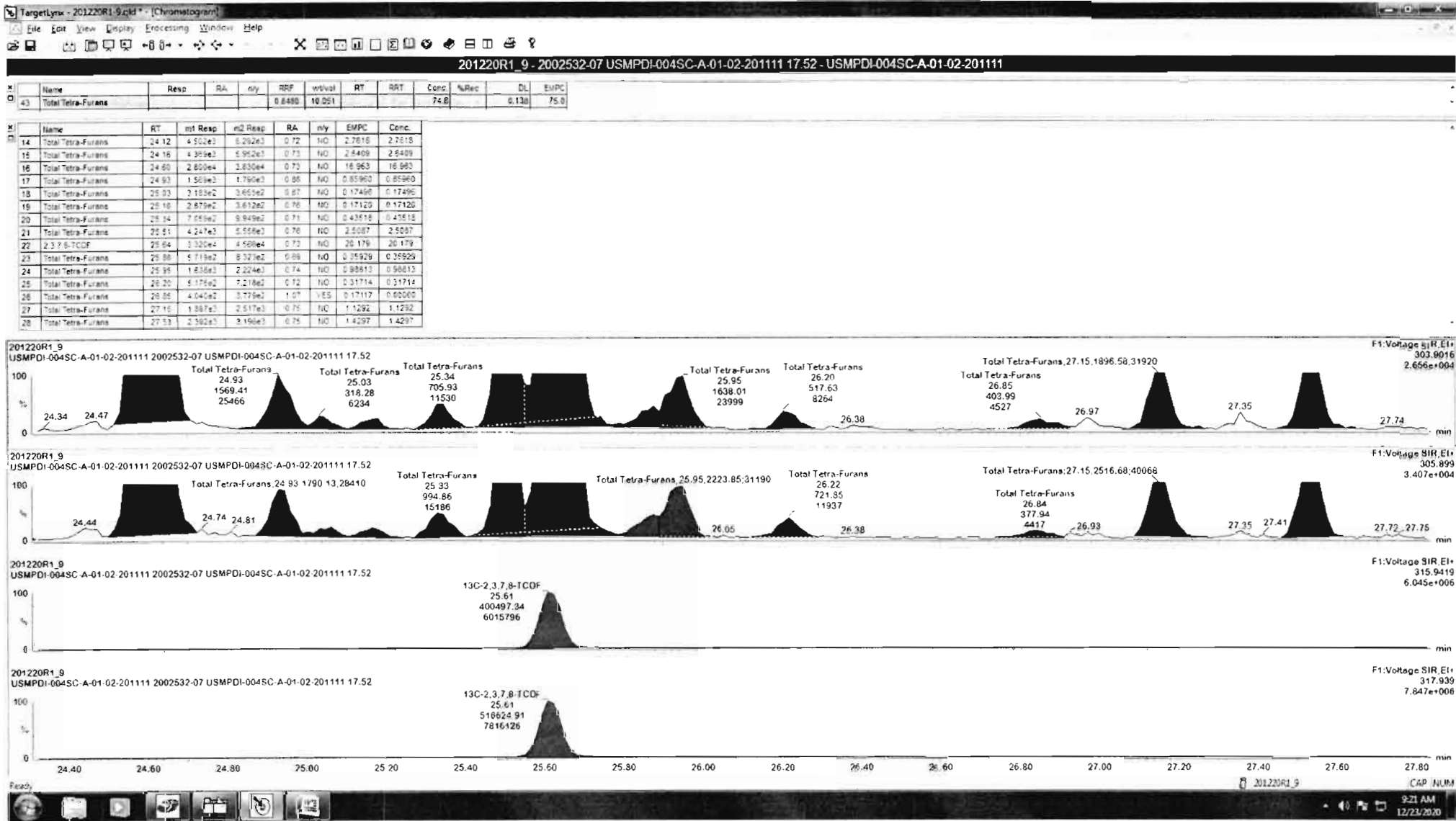
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DPE1







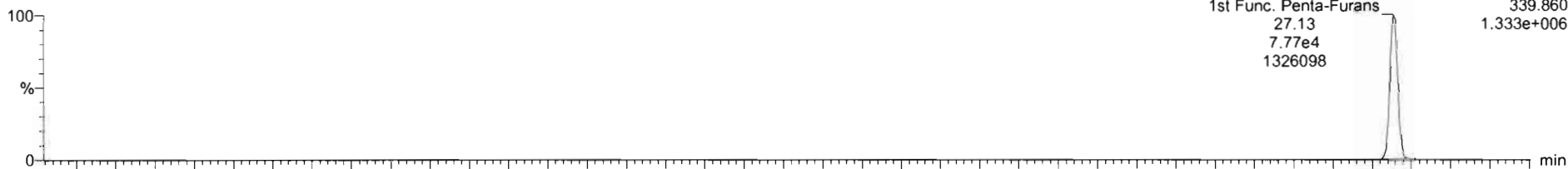
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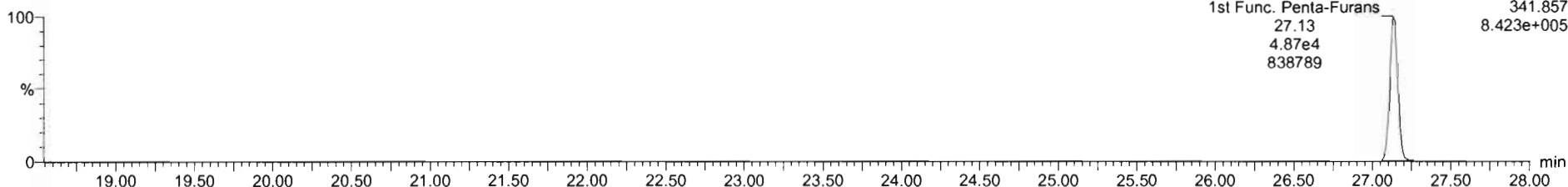
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201220R1_9

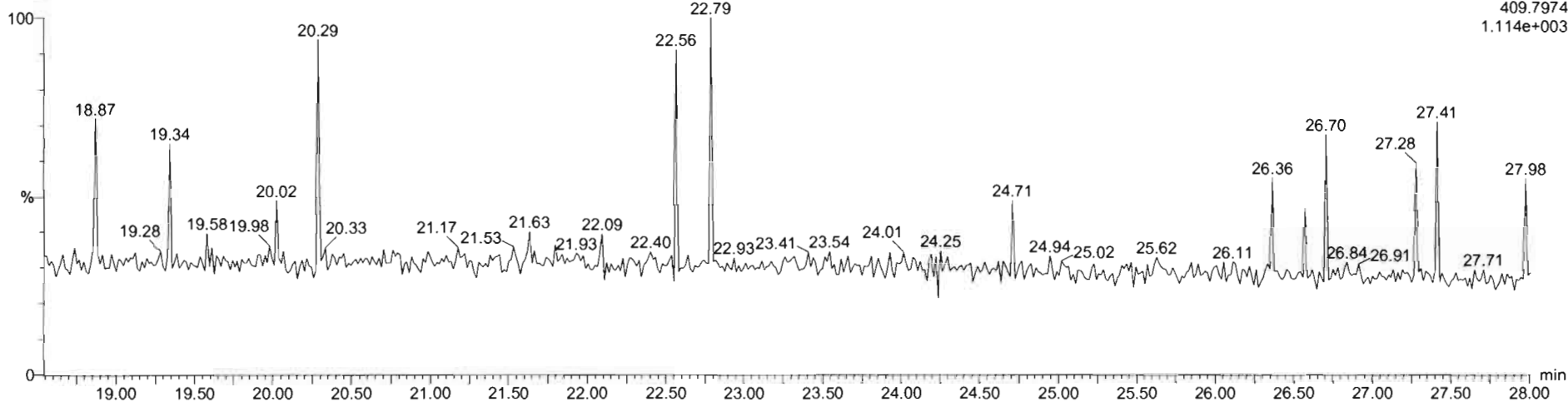


201220R1_9



DPE6

201220R1_9



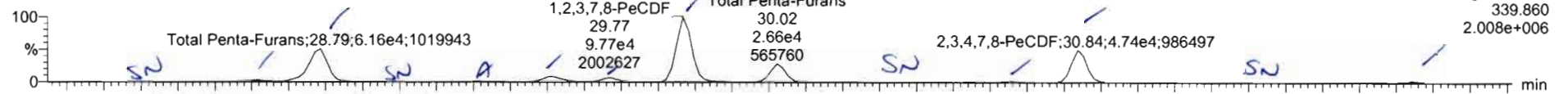
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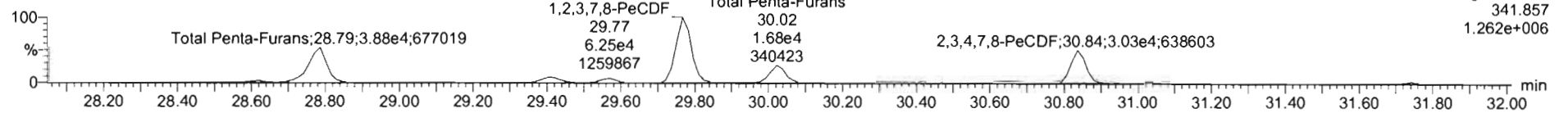
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1,2,3,7,8-PeCDF

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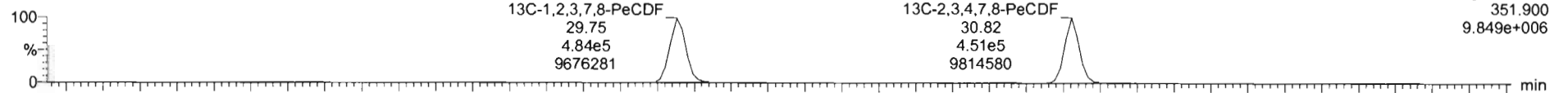


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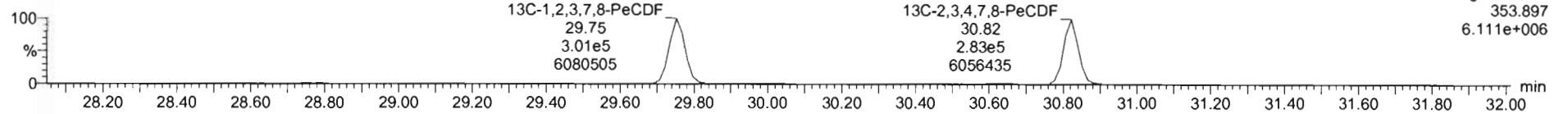


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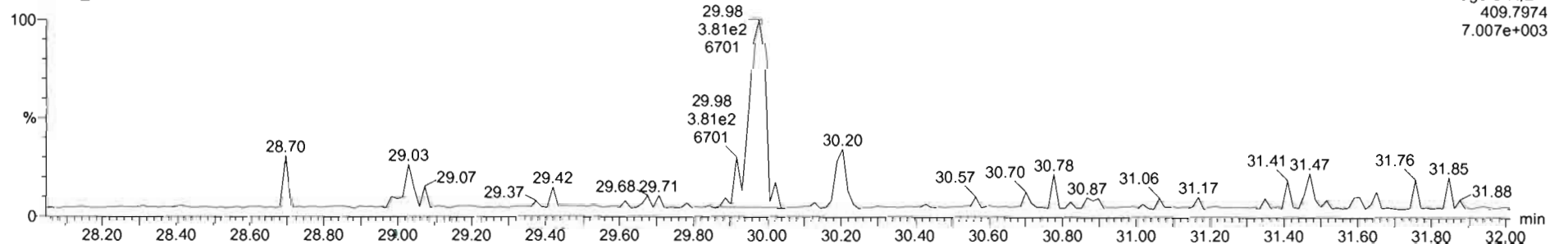


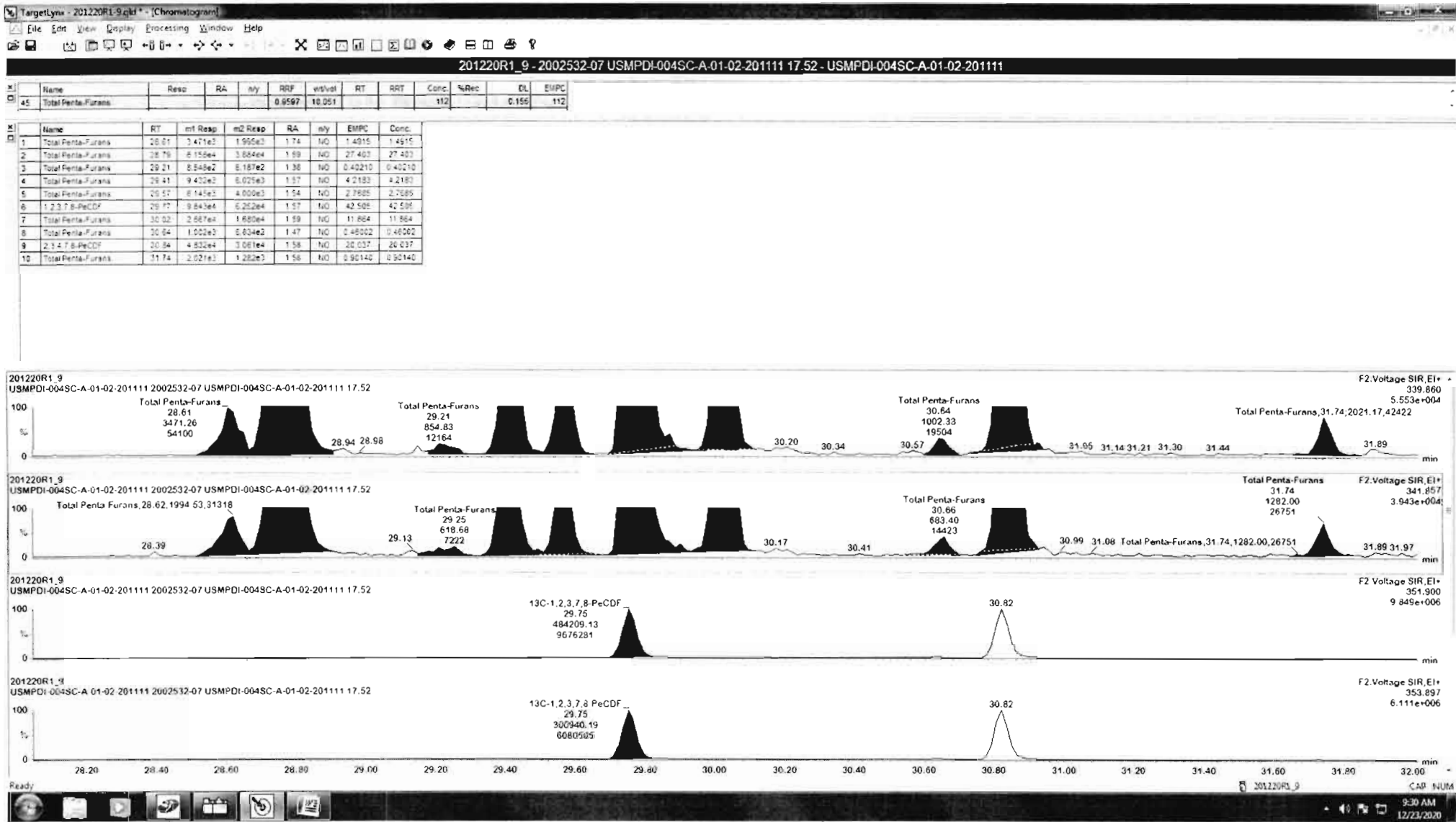
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DPE2

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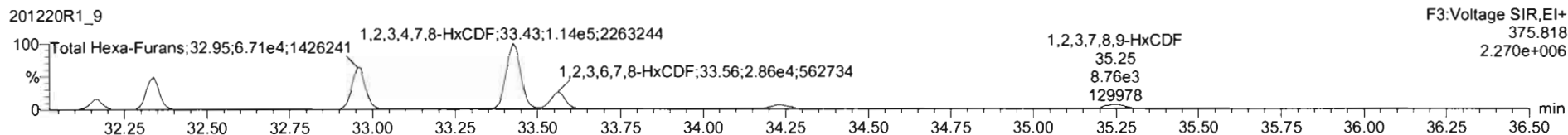
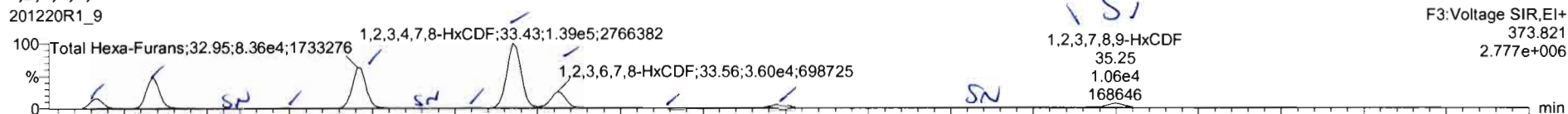


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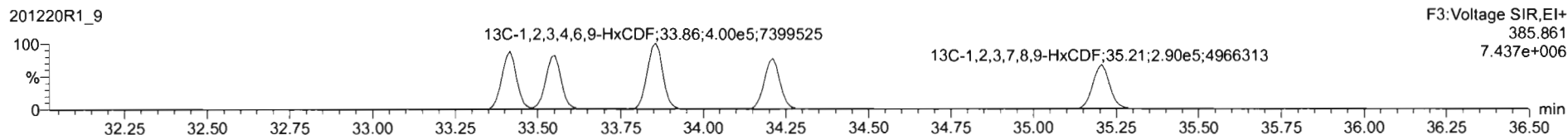
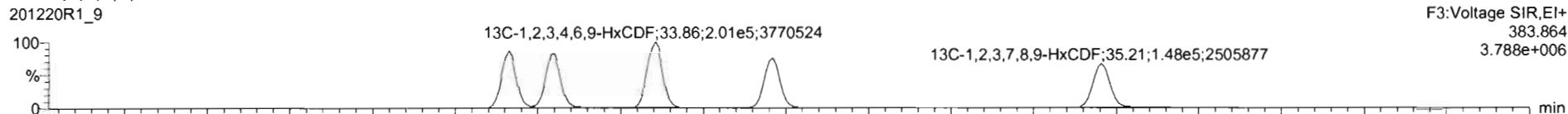
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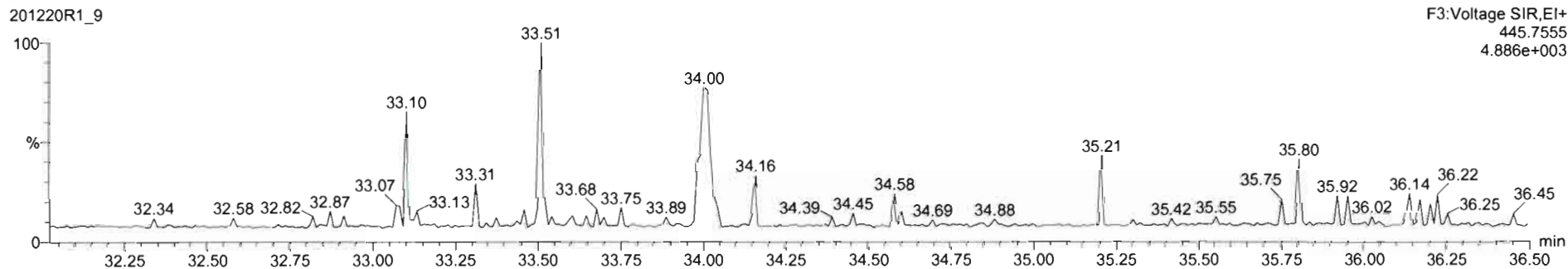
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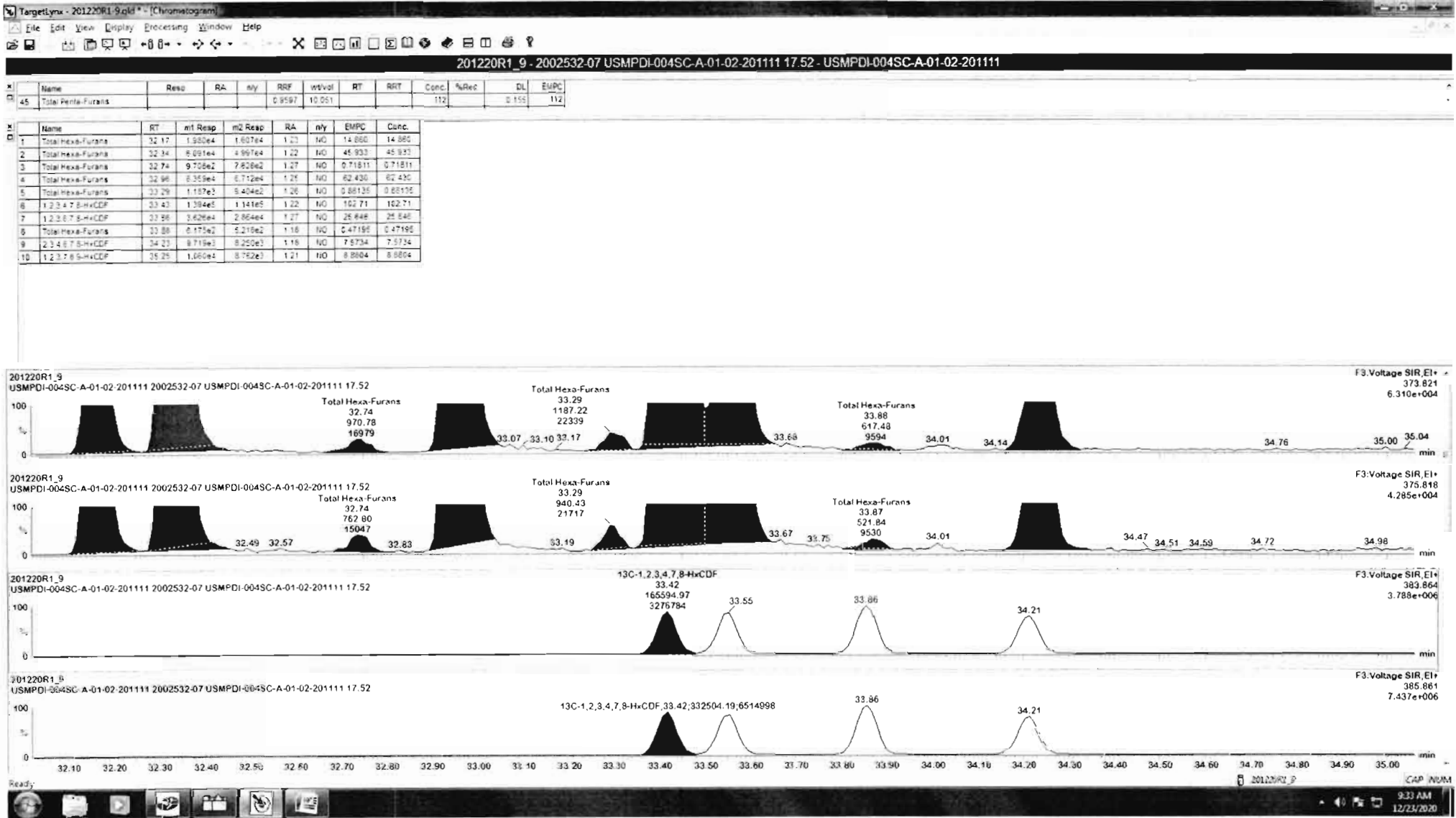


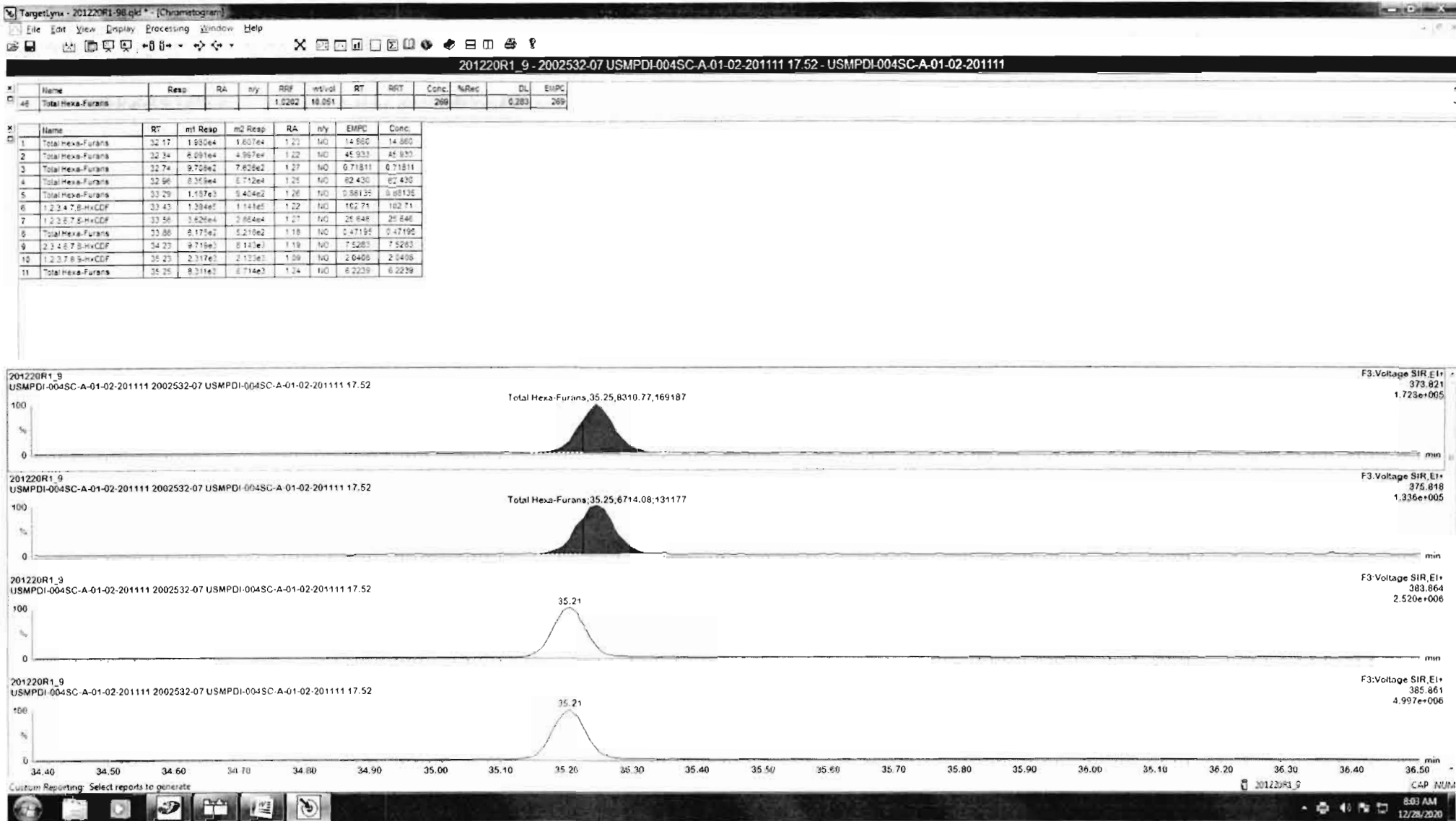
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DPE3





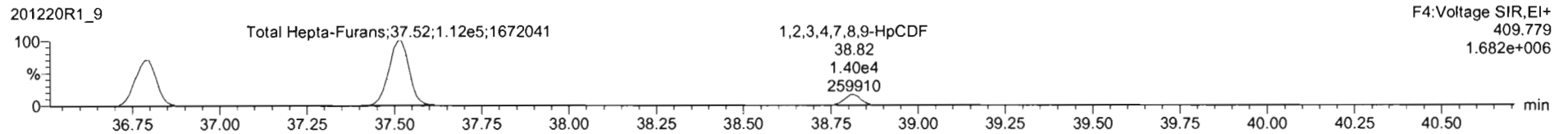
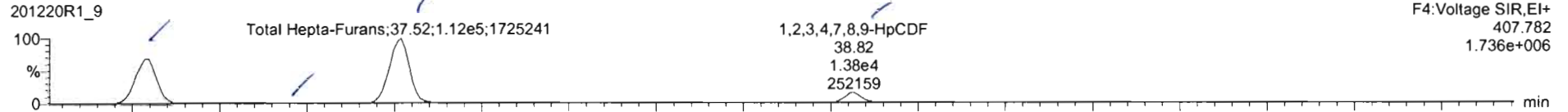


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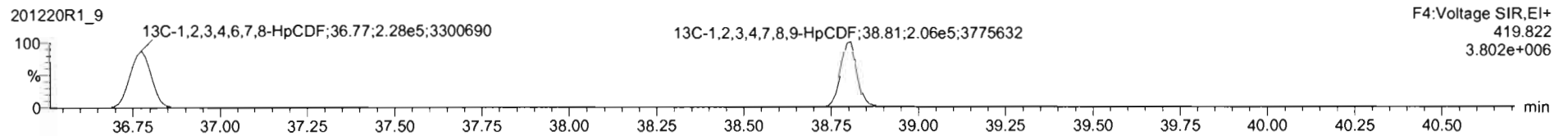
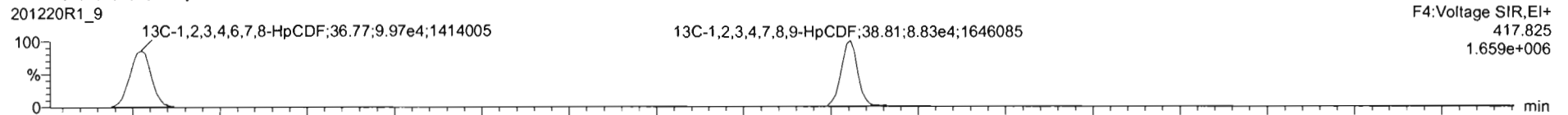
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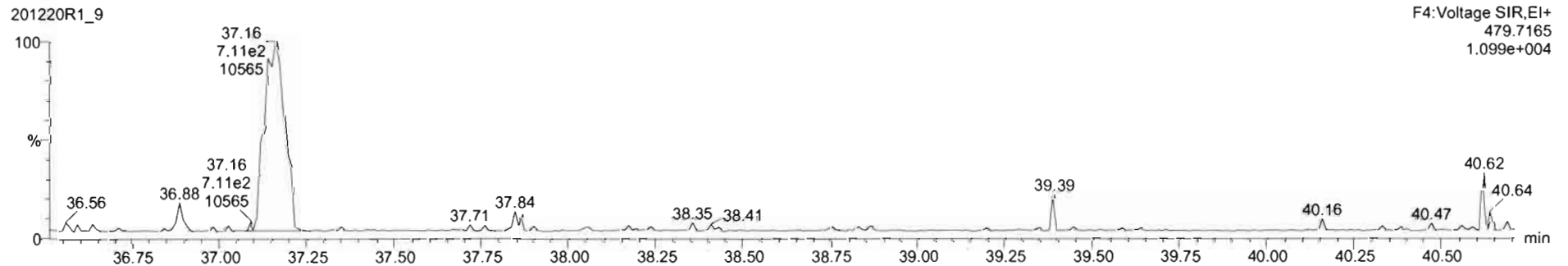
1,2,3,4,6,7,8-HpCDF

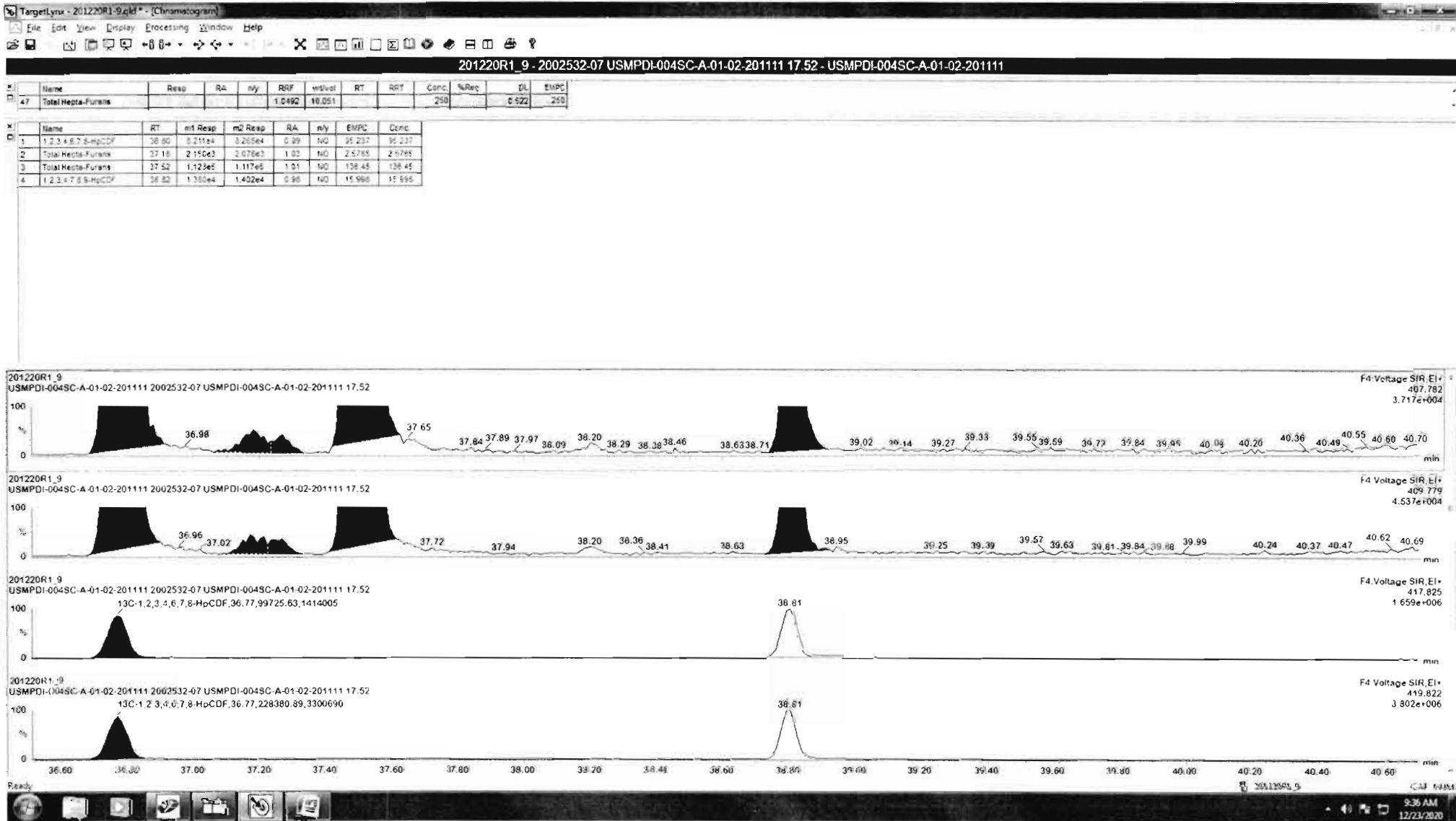


13C-1,2,3,4,6,7,8-HpCDF



DPE4





Dataset: Untitled

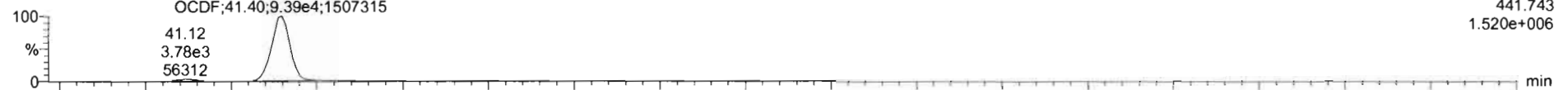
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Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

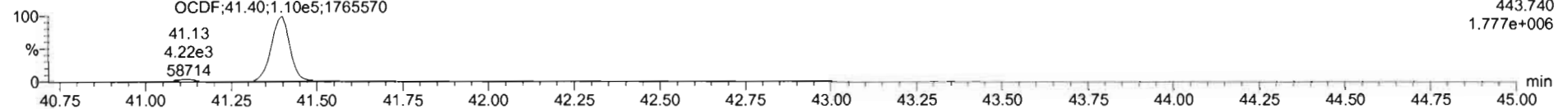
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OCDF

201220R1_9

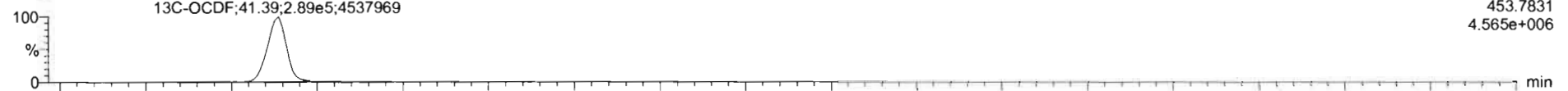


201220R1_9

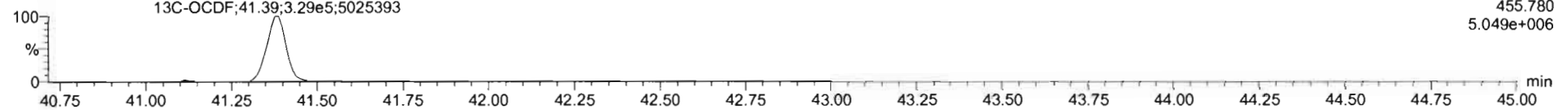


13C-OCDF

201220R1_9

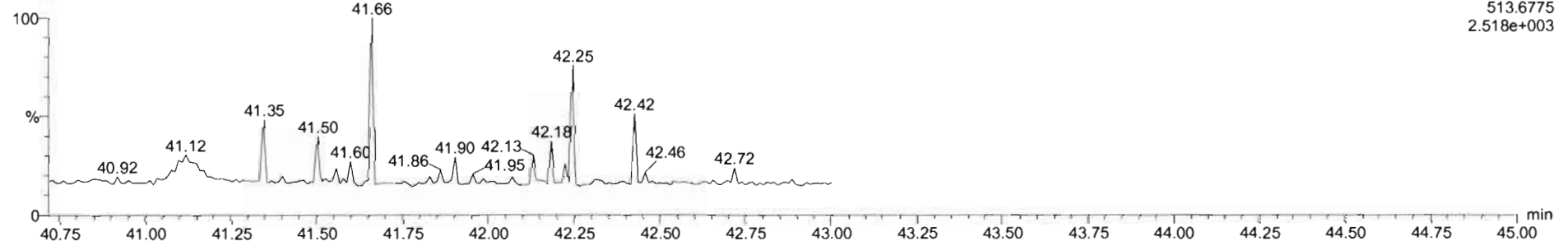


201220R1_9



DPE5

201220R1_9

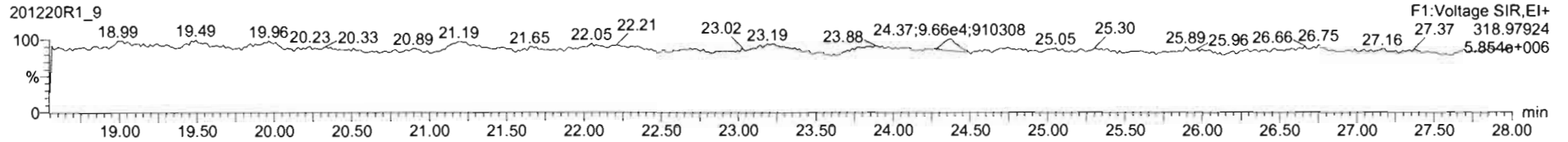


Dataset: Untitled

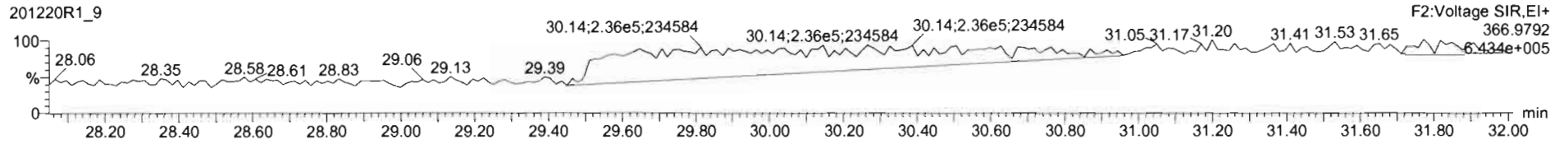
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Name: 201220R1_9, Date: 20-Dec-2020, Time: 14:25:47, ID: 2002532-07 USMPDI-004SC-A-01-02-201111 17.52, Description: USMPDI-004SC-A-01-02-201111

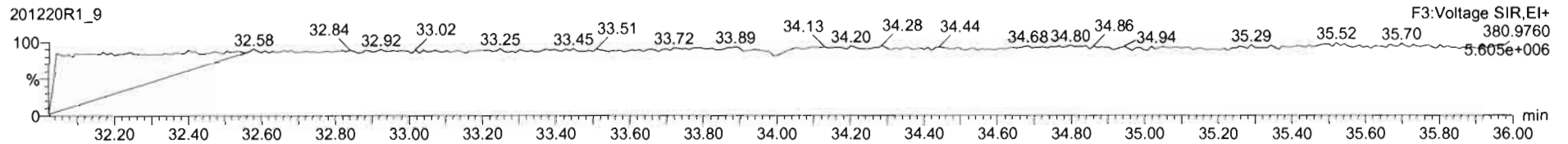
PFK1



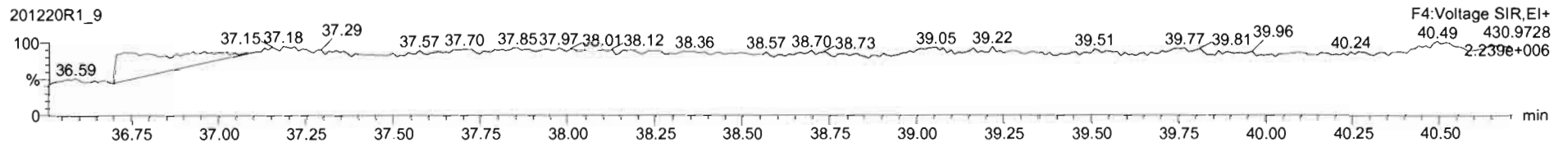
PFK2



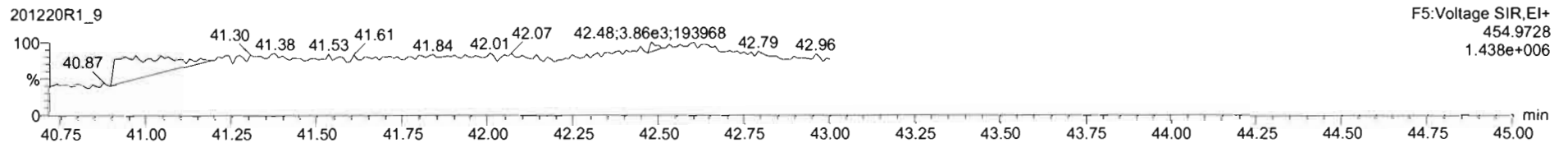
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\201221R1\201221R1-11.qld

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Printed: Wednesday, December 23, 2020 9:43:13 AM Pacific Standard Time

GPO 12/23/2020

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

Wuh 12/23/20

Name: 201221R1_11, Date: 21-Dec-2020, Time: 15:32:22, ID: 2002532-07@10X USMPDI-004SC-A-01-02-201111 17.52, Description: USMPDI-004SC-A-01-02-201111

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	7 OCDD	1.01e6	0.88	NO	0.866	10.051	41.103	41.10	1.000	1.000	8043.3		7.66	8040
2	24 13C-OCDD	5.77e4	0.93	NO	0.496	10.051	41.141	41.09	1.216	1.214	342.49	86.1	2.77	
3	35 37Cl-2,3,7,8-TCDD	3.54e4			1.22	10.051	26.302	26.32	1.030	1.031	78.010	98.0	0.286	
4	36 13C-1,2,3,4-TCDD	7.41e4	0.80	NO	1.00	10.051	25.640	25.54	1.000	1.000	198.99	100	1.02	
5	37 13C-1,2,3,4-TCDF	1.19e5	0.76	NO	1.00	10.051	24.130	24.03	1.000	1.000	198.99	100	1.08	
6	38 13C-1,2,3,4,6,9-HxCDF	6.76e4	0.51	NO	1.00	10.051	33.920	33.85	1.000	1.000	198.99	100	1.85	

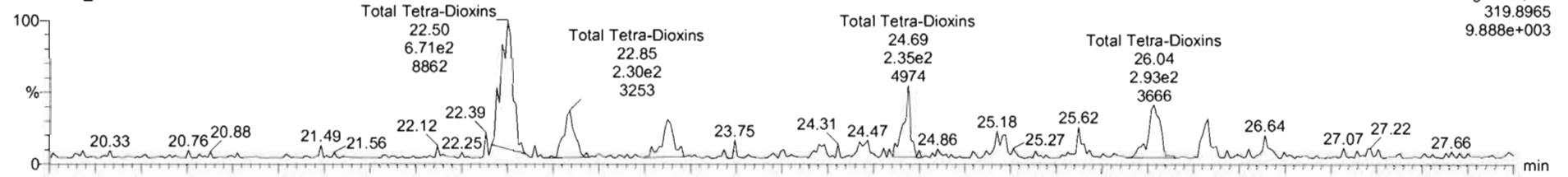
Dataset: Untitled

Last Altered: Tuesday, December 22, 2020 6:56:08 AM Pacific Standard Time
Printed: Tuesday, December 22, 2020 6:57:36 AM Pacific Standard Time

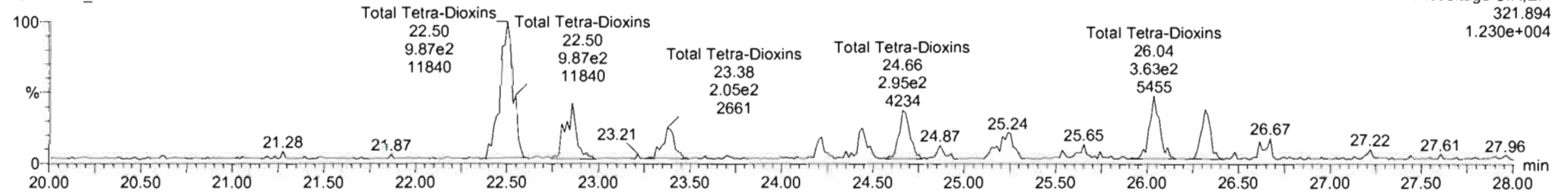
Name: 201221R1_11, Date: 21-Dec-2020, Time: 15:32:22, ID: 2002532-07@10X USMPDI-004SC-A-01-02-201111 17.52, Description: USMPDI-004SC-A-01-02-201111

2,3,7,8-TCDD

201221R1_11

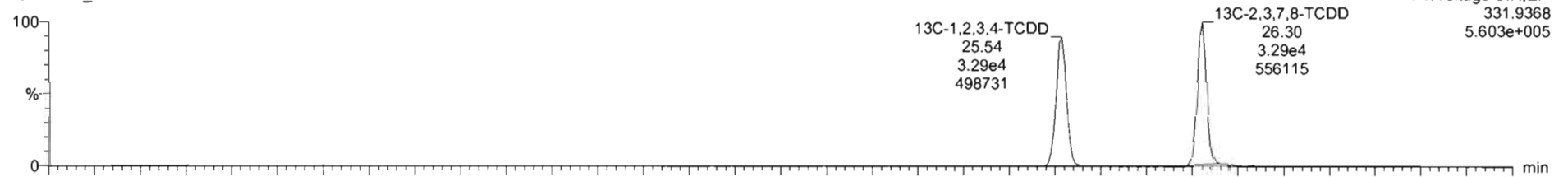


201221R1_11

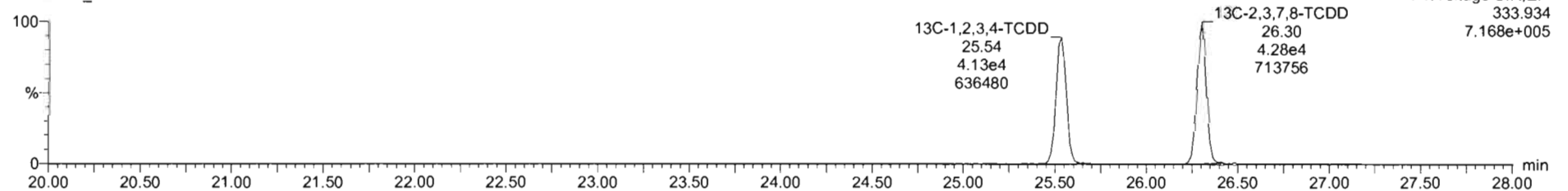


13C-2,3,7,8-TCDD

201221R1_11



201221R1_11



Dataset: Untitled

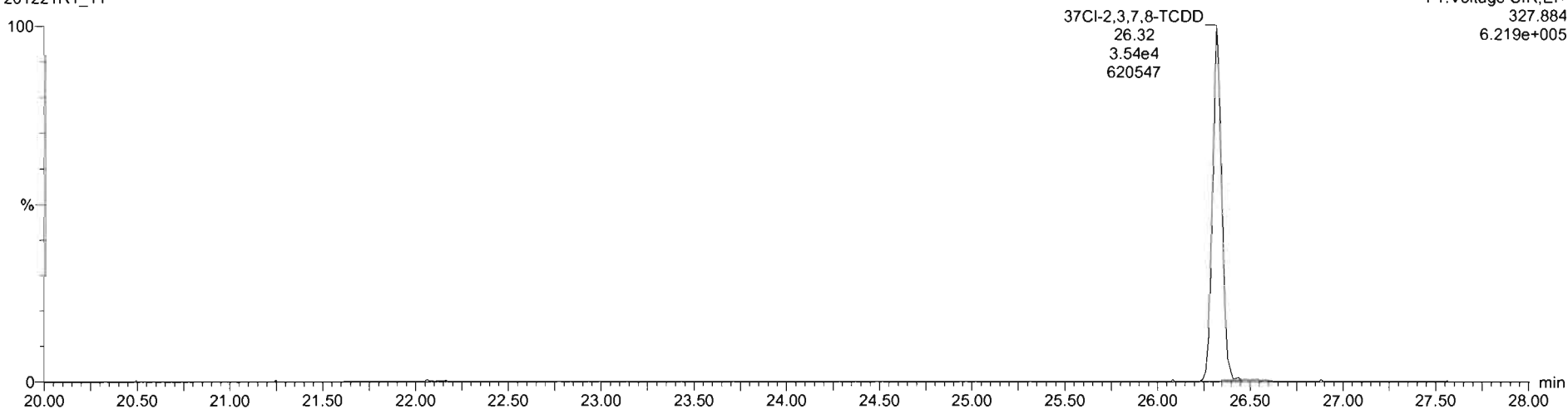
Last Altered: Tuesday, December 22, 2020 6:56:08 AM Pacific Standard Time

Printed: Tuesday, December 22, 2020 6:57:36 AM Pacific Standard Time

Name: 201221R1_11, Date: 21-Dec-2020, Time: 15:32:22, ID: 2002532-07@10X USMPDI-004SC-A-01-02-201111 17.52, Description: USMPDI-004SC-A-01-02-201111

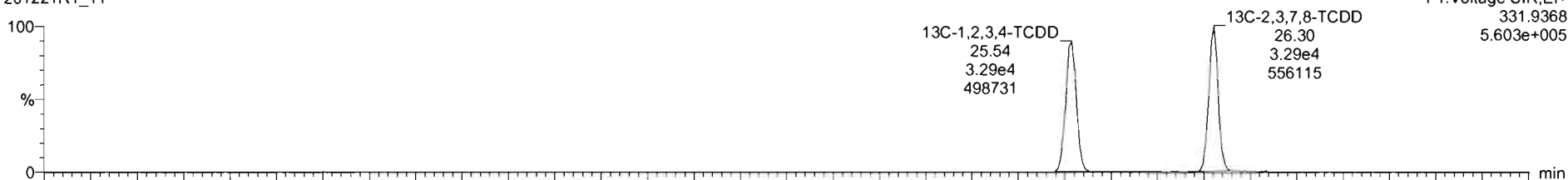
37Cl-2,3,7,8-TCDD

201221R1_11

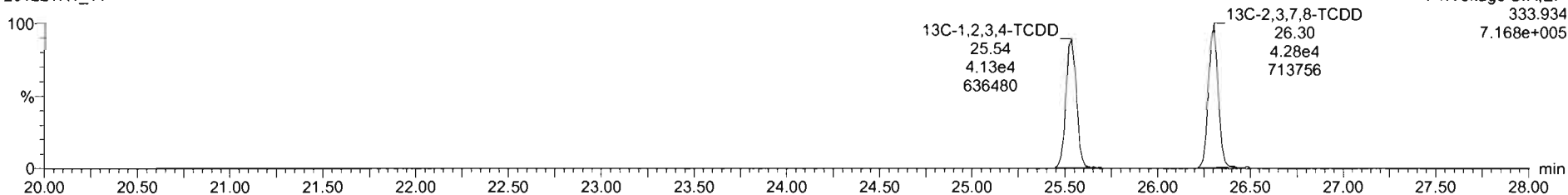


13C-1,2,3,4-TCDD

201221R1_11



201221R1_11



Dataset: Untitled

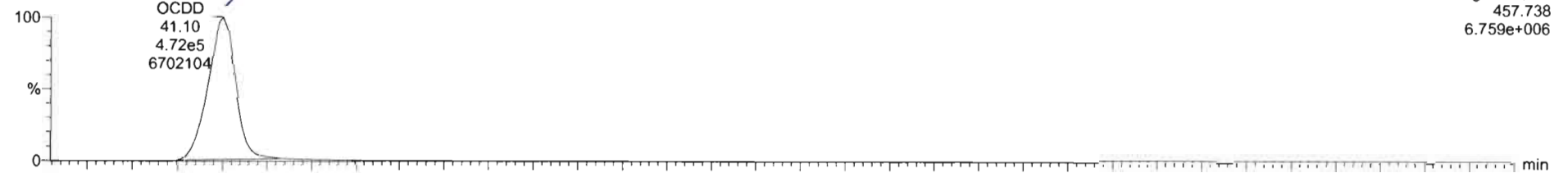
Last Altered: Tuesday, December 22, 2020 6:56:08 AM Pacific Standard Time

Printed: Tuesday, December 22, 2020 6:57:36 AM Pacific Standard Time

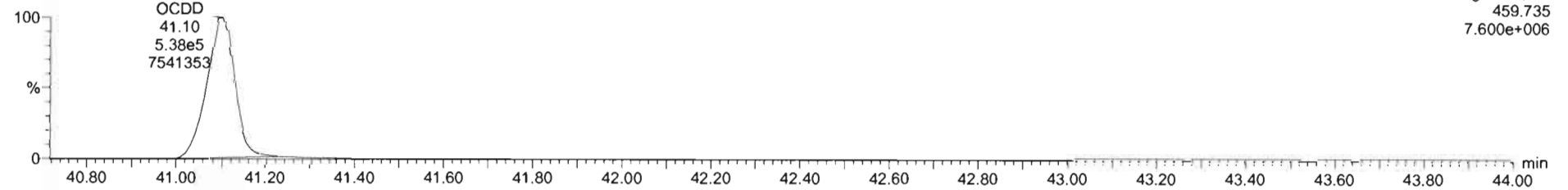
Name: 201221R1_11, Date: 21-Dec-2020, Time: 15:32:22, ID: 2002532-07@10X USMPDI-004SC-A-01-02-201111 17.52, Description: USMPDI-004SC-A-01-02-201111

OCDD

201221R1_11

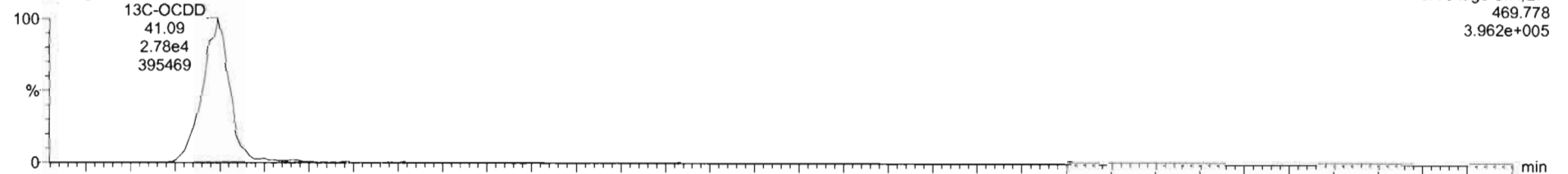


201221R1_11

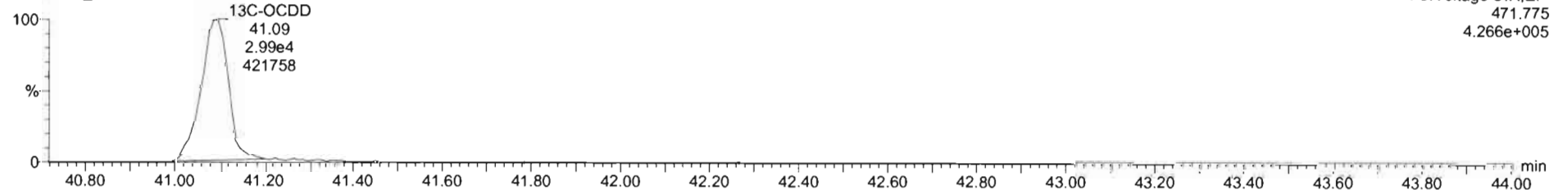


13C-OCDD

201221R1_11



201221R1_11

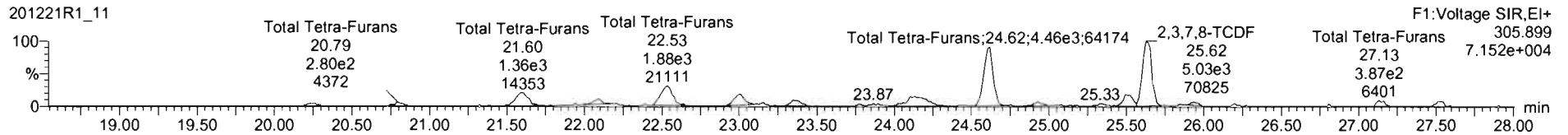
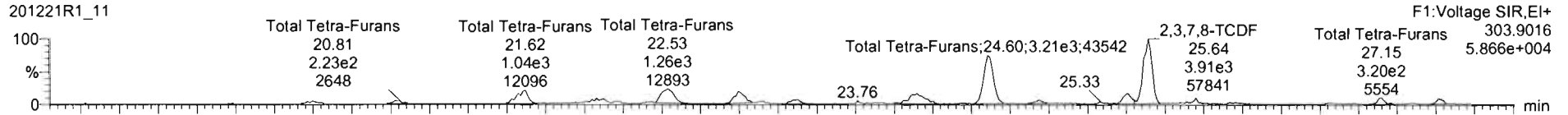


Dataset: Untitled

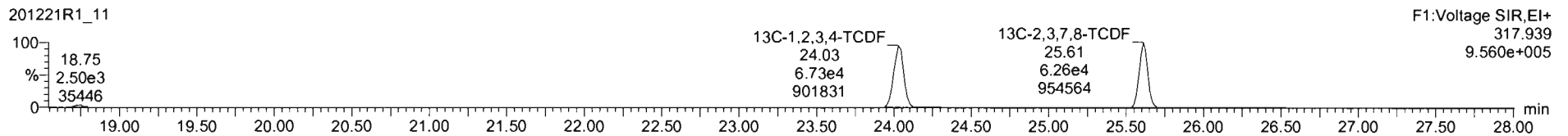
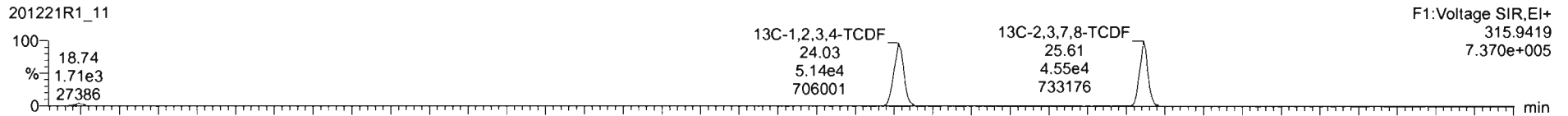
Last Altered: Tuesday, December 22, 2020 6:56:08 AM Pacific Standard Time
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Name: 201221R1_11, Date: 21-Dec-2020, Time: 15:32:22, ID: 2002532-07@10X USMPDI-004SC-A-01-02-201111 17.52, Description: USMPDI-004SC-A-01-02-201111

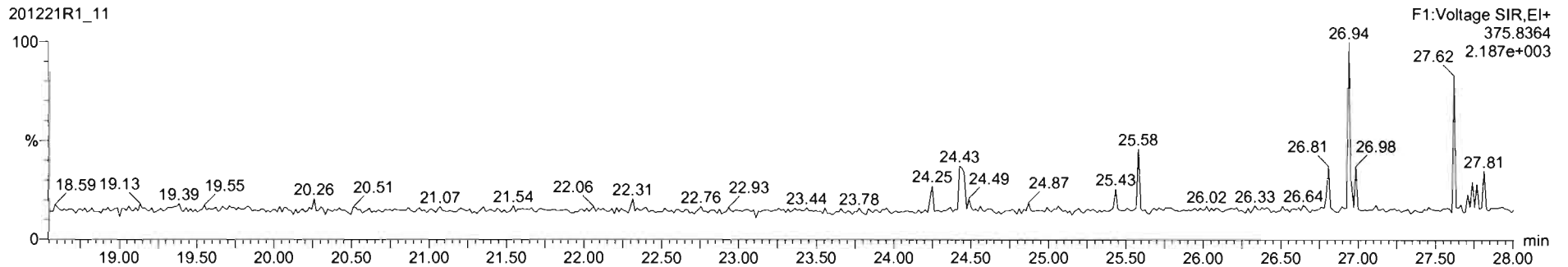
2,3,7,8-TCDF



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



DPE1

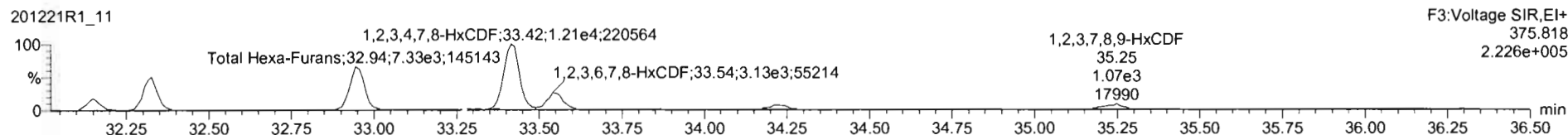
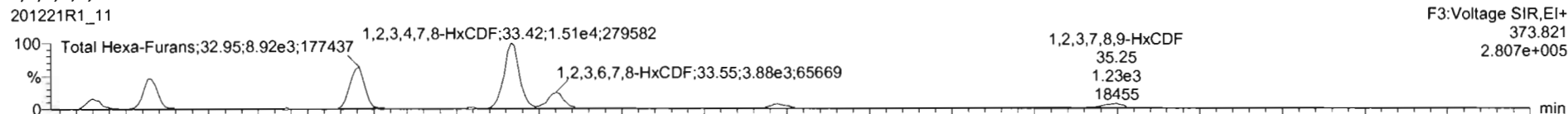


Dataset: Untitled

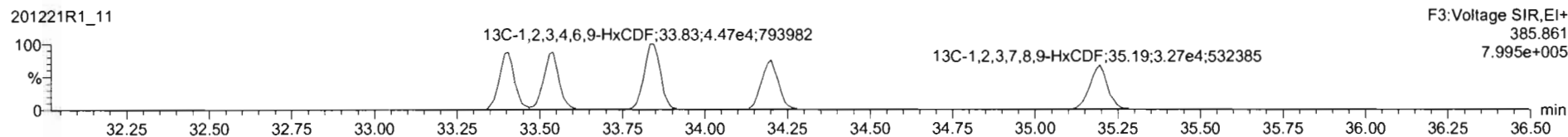
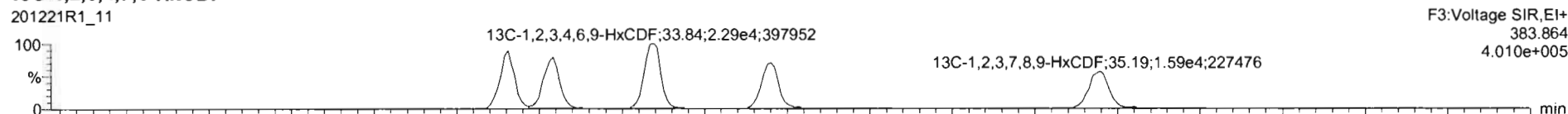
Last Altered: Tuesday, December 22, 2020 6:56:08 AM Pacific Standard Time
Printed: Tuesday, December 22, 2020 6:57:36 AM Pacific Standard Time

Name: 201221R1_11, Date: 21-Dec-2020, Time: 15:32:22, ID: 2002532-07@10X USMPDI-004SC-A-01-02-201111 17.52, Description: USMPDI-004SC-A-01-02-201111

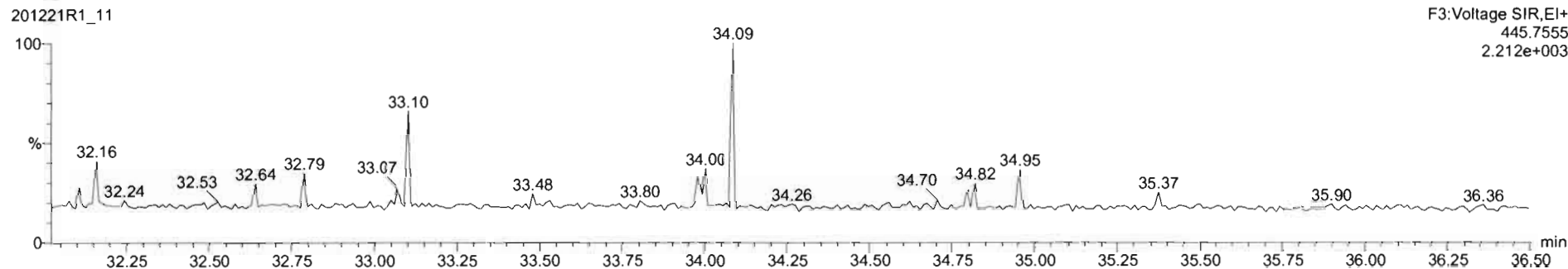
1,2,3,4,7,8-HxCDF



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



DPE3



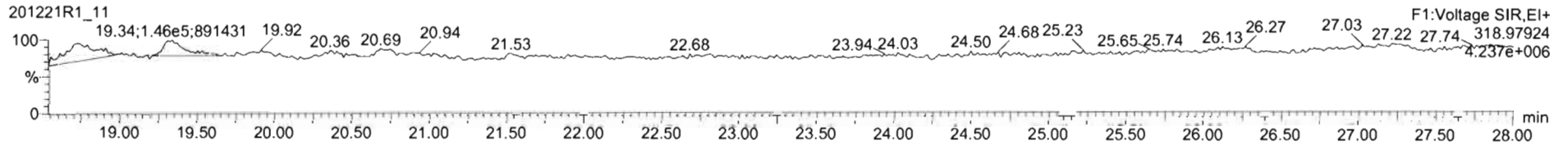
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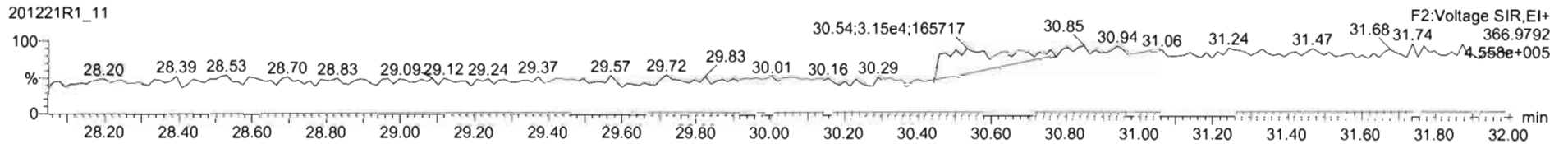
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Name: 201221R1_11, Date: 21-Dec-2020, Time: 15:32:22, ID: 2002532-07@10X USMPDI-004SC-A-01-02-201111 17.52, Description: USMPDI-004SC-A-01-02-201111

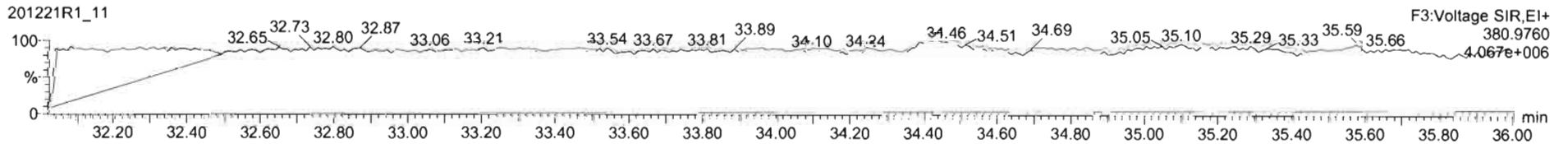
PFK1



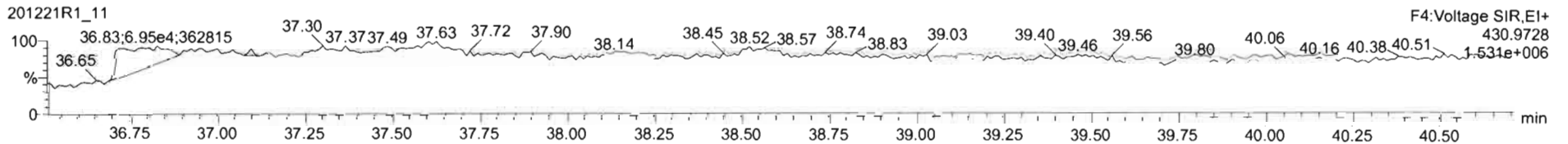
PFK2



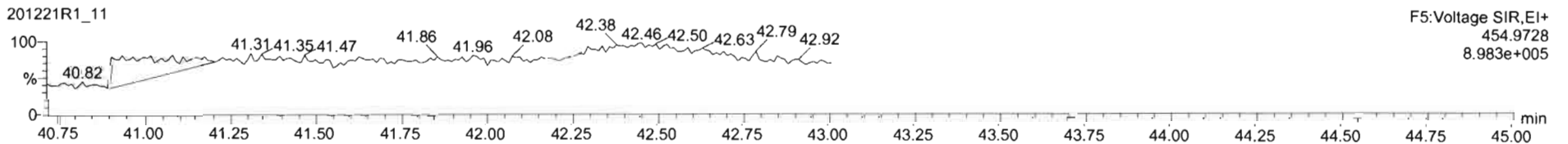
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\201220R1\201220R1-10.qld

Last Altered: Wednesday, December 23, 2020 10:13:47 AM Pacific Standard Time
Printed: Wednesday, December 23, 2020 10:14:06 AM Pacific Standard Time

GRB 12/23/2020

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

me 12/20/20

Name: 201220R1_10, Date: 20-Dec-2020, Time: 15:10:02, ID: 2002532-08 USMPDI-004SC-A-02-03-201111 17.55, Description: USMPDI-004SC-A-02-03-201111

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.980	10.049	26.351		1.001				0.0836	
2	2 1,2,3,7,8-PeCDD			NO	0.932	10.049	31.064		1.001				0.225	
3	3 1,2,3,4,7,8-HxCDD			NO	1.02	10.049	34.358		1.001				0.205	
4	4 1,2,3,6,7,8-HxCDD	1.55e3	1.16	NO	0.902	10.049	34.473	34.47	1.001	1.001	1.1289		0.209	1.13
5	5 1,2,3,7,8,9-HxCDD	5.32e2	1.30	NO	0.954	10.049	34.734	34.73	1.000	1.000	0.39596		0.210	0.396
6	6 1,2,3,4,6,7,8-HpCDD	5.37e4	1.04	NO	0.918	10.049	38.200	38.20	1.000	1.000	43.603		0.599	43.6
7	7 OCDD	3.53e5	0.85	NO	0.866	10.049	41.123	41.13	1.000	1.000	424.68		0.768	425
8	8 2,3,7,8-TCDF	2.24e3	0.75	NO	0.848	10.049	25.642	25.65	1.000	1.001	0.93471		0.0966	0.935
9	9 1,2,3,7,8-PeCDF	2.44e3	1.19	YES	0.960	10.049	29.770	29.78	1.000	1.000	1.0948		0.149	0.978
10	10 2,3,4,7,8-PeCDF	1.83e3	1.43	NO	1.07	10.049	30.859	30.85	1.001	1.000	0.73059		0.136	0.731
11	11 1,2,3,4,7,8-HxCDF	2.28e3	1.19	NO	0.986	10.049	33.436	33.44	1.000	1.000	1.3958		0.133	1.40
12	12 1,2,3,6,7,8-HxCDF	6.22e2	1.25	NO	1.04	10.049	33.571	33.56	1.001	1.000	0.36705		0.128	0.367
13	13 2,3,4,6,7,8-HxCDF			NO	1.02	10.049	34.243		1.001				0.141	
14	14 1,2,3,7,8,9-HxCDF	2.88e2	1.11	NO	0.991	10.049	35.227	35.26	1.000	1.001	0.19196		0.167	0.192
15	15 1,2,3,4,6,7,8-HpCDF	3.11e3	1.00	NO	1.05	10.049	36.814	36.80	1.000	1.000	2.5870		0.165	2.59
16	16 1,2,3,4,7,8,9-HpCDF	4.51e2	0.85	YES	1.18	10.049	38.817	38.82	1.000	1.000	0.39613		0.142	0.358
17	17 OCDF	5.57e3	0.82	NO	0.896	10.049	41.417	41.43	1.000	1.000	6.1162		0.201	6.12
18	18 13C-2,3,7,8-TCDD	4.11e5	0.76	NO	1.06	10.049	26.323	26.32	1.030	1.030	89.741	45.1	0.155	
19	19 13C-1,2,3,7,8-PeCDD	3.29e5	0.62	NO	0.785	10.049	31.157	31.03	1.219	1.215	96.737	48.6	0.123	
20	20 13C-1,2,3,4,7,8-HxCDD	2.66e5	1.29	NO	0.621	10.049	34.327	34.34	1.014	1.014	106.53	53.5	0.294	
21	21 13C-1,2,3,6,7,8-HxCDD	3.03e5	1.27	NO	0.734	10.049	34.448	34.45	1.017	1.017	102.64	51.6	0.249	
22	22 13C-1,2,3,7,8,9-HxCDD	2.80e5	1.23	NO	0.723	10.049	34.733	34.72	1.026	1.025	96.635	48.6	0.253	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.67e5	1.04	NO	0.568	10.049	38.231	38.19	1.129	1.128	117.08	58.8	0.487	
24	24 13C-OCDD	3.82e5	0.86	NO	0.496	10.049	41.168	41.12	1.216	1.214	192.05	48.2	0.528	
25	25 13C-2,3,7,8-TCDF	5.63e5	0.78	NO	0.919	10.049	25.623	25.64	1.003	1.003	101.15	50.8	0.210	
26	26 13C-1,2,3,7,8-PeCDF	4.62e5	1.61	NO	0.715	10.049	29.869	29.77	1.169	1.165	106.58	53.6	0.322	
27	27 13C-2,3,4,7,8-PeCDF	4.67e5	1.60	NO	0.689	10.049	30.955	30.84	1.212	1.207	111.98	56.3	0.334	
28	28 13C-1,2,3,4,7,8-HxCDF	3.29e5	0.50	NO	0.873	10.049	33.433	33.43	0.987	0.987	93.869	47.2	0.282	
29	29 13C-1,2,3,6,7,8-HxCDF	3.24e5	0.50	NO	0.933	10.049	33.561	33.55	0.991	0.991	86.538	43.5	0.264	
30	30 13C-2,3,4,6,7,8-HxCDF	3.16e5	0.50	NO	0.843	10.049	34.228	34.22	1.011	1.011	93.380	46.9	0.292	
31	31 13C-1,2,3,7,8,9-HxCDF	3.01e5	0.50	NO	0.780	10.049	35.227	35.22	1.040	1.040	96.034	48.3	0.316	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201220R1\201220R1-10.qld

Last Altered: Wednesday, December 23, 2020 10:13:47 AM Pacific Standard Time

Printed: Wednesday, December 23, 2020 10:14:06 AM Pacific Standard Time

Name: 201220R1_10, Date: 20-Dec-2020, Time: 15:10:02, ID: 2002532-08 USMPDI-004SC-A-02-03-201111 17.55, Description: USMPDI-004SC-A-02-03-201111

#	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	2.28e5	0.41	NO	0.726	10.049	36.802	36.80	1.087	1.087	78.221	39.3	0.398	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.93e5	0.43	NO	0.491	10.049	38.810	38.81	1.146	1.146	97.690	49.1	0.588	
34	34 13C-OCDF	4.05e5	0.87	NO	0.565	10.049	41.384	41.41	1.222	1.223	178.12	44.7	0.406	
35	35 37Cl-2,3,7,8-TCDD	3.61e5			1.22	10.049	26.318	26.35	1.030	1.031	68.481	86.0	0.0365	
36	36 13C-1,2,3,4-TCDD	8.63e5	0.77	NO	1.00	10.049	25.640	25.55	1.000	1.000	199.03	100	0.164	
37	37 13C-1,2,3,4-TCDF	1.21e6	0.79	NO	1.00	10.049	24.130	24.06	1.000	1.000	199.03	100	0.193	
38	38 13C-1,2,3,4,6,9-HxCDF	7.99e5	0.51	NO	1.00	10.049	33.920	33.87	1.000	1.000	199.03	100	0.246	
39	39 Total Tetra-Dioxins				0.980	10.049	24.620		0.000		0.25233		0.0836	0.252
40	40 Total Penta-Dioxins				0.932	10.049	29.960		0.000		0.64070		0.225	1.15
41	41 Total Hexa-Dioxins				0.902	10.049	33.635		0.000		14.393		0.220	14.4
42	42 Total Hepta-Dioxins				0.918	10.049	37.640		0.000		116.44		0.599	116
43	43 Total Tetra-Furans				0.848	10.049	23.610		0.000		2.6780		0.0966	3.78
44	44 1st Func. Penta-Furans				0.960	10.049	26.930		0.000		1.3165		0.0381	1.32
45	45 Total Penta-Furans				0.960	10.049	29.275		0.000		2.1423		0.150	3.56
46	46 Total Hexa-Furans				1.02	10.049	33.555		0.000		5.6724		0.140	5.67
47	47 Total Hepta-Furans				1.05	10.049	37.835		0.000		7.9190		0.162	8.28

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201220R1\201220R1-10.qld

Last Altered: Wednesday, December 23, 2020 10:13:47 AM Pacific Standard Time

Printed: Wednesday, December 23, 2020 10:14:06 AM Pacific Standard Time

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Name: 201220R1_10, Date: 20-Dec-2020, Time: 15:10:02, ID: 2002532-08 USMPDI-004SC-A-02-03-201111 17.55, Description: USMPDI-004SC-A-02-03-201111

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	2.361e3	4.788e3	2.087e2	3.020e2	0.69	NO	5.107e2	0.25233	0.25233	0.0836

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.76	2.955e3	6.211e3	2.310e2	4.170e2	0.55	NO	6.481e2	0.42038	0.42038	0.225
2	Total Penta-Dioxins	29.24	2.435e3	3.250e3	1.254e2	2.142e2	0.59	NO	3.396e2	0.22032	0.22032	0.225
3	Total Penta-Dioxins	29.80	6.470e3	5.261e3	3.220e2	2.682e2	1.20	YES	0.000e0	0.00000	0.28357	0.225
4	Total Penta-Dioxins	30.23	3.792e3	4.483e3	2.106e2	2.167e2	0.97	YES	0.000e0	0.00000	0.22912	0.225

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	8.873e4	6.769e4	4.277e3	3.454e3	1.24	NO	7.732e3	6.0276	6.0276	0.220
2	Total Hexa-Dioxins	33.30	1.512e4	1.109e4	6.648e2	5.290e2	1.26	NO	1.194e3	0.93068	0.93068	0.220
3	Total Hexa-Dioxins	33.59	5.355e4	3.798e4	3.355e3	2.749e3	1.22	NO	6.104e3	4.7589	4.7589	0.220
4	Total Hexa-Dioxins	33.69	8.898e3	6.667e3	4.934e2	3.551e2	1.39	NO	8.485e2	0.66150	0.66150	0.220
5	1,2,3,6,7,8-HxCDD	34.47	1.802e4	1.168e4	8.316e2	7.175e2	1.16	NO	1.549e3	1.1289	1.1289	0.209
6	Total Hexa-Dioxins	34.62	7.629e3	5.839e3	3.673e2	2.606e2	1.41	NO	6.279e2	0.48948	0.48948	0.220
7	1,2,3,7,8,9-HxCDD	34.73	4.775e3	3.501e3	3.008e2	2.317e2	1.30	NO	5.325e2	0.39596	0.39596	0.210

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.18	6.561e5	6.497e5	4.534e4	4.436e4	1.02	NO	8.970e4	72.836	72.836	0.599
2	1,2,3,4,6,7,8-HpCDD	38.20	5.079e5	4.986e5	2.740e4	2.629e4	1.04	NO	5.370e4	43.603	43.603	0.599

Vista Analytical Laboratory

Dataset: U:\WG12.PRO\Results\201220R1\201220R1-10.qld

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Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.60	4.376e3	6.509e3	3.921e2	4.758e2	0.82	NO	8.679e2	0.36164	0.36164	0.0966
2	Total Tetra-Furans	22.52	5.094e3	7.829e3	4.718e2	6.456e2	0.73	NO	1.117e3	0.46555	0.46555	0.0966
3	Total Tetra-Furans	23.01	2.694e3	3.621e3	2.558e2	3.414e2	0.75	NO	0.000e0	0.00000	0.24885	0.0966
4	Total Tetra-Furans	24.15	7.212e3	5.958e3	6.551e2	7.503e2	0.87	NO	0.000e0	0.00000	0.58560	0.0966
5	Total Tetra-Furans	24.63	1.238e4	1.903e4	8.894e2	1.309e3	0.68	NO	2.199e3	0.91614	0.91614	0.0966
6	Total Tetra-Furans	25.54	6.027e3	4.545e3	3.722e2	3.643e2	1.02	YES	0.000e0	0.00000	0.26865	0.0966
7	2,3,7,8-TCDF	25.65	1.276e4	2.029e4	9.581e2	1.285e3	0.75	NO	2.243e3	0.93471	0.93471	0.0966

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	3.056e4	1.591e4	1.867e3	1.082e3	1.73	NO	2.949e3	1.3165	1.3165	0.0381

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	1.678e4	1.349e4	1.173e3	8.438e2	1.39	NO	2.017e3	0.90049	0.90049	0.150
2	Total Penta-Furans	29.42	9.387e3	5.424e3	4.526e2	2.981e2	1.52	NO	7.508e2	0.33519	0.33519	0.150
3	Total Penta-Furans	29.57	3.917e3	2.599e3	2.254e2	1.688e2	1.33	NO	3.942e2	0.17600	0.17600	0.150
4	1,2,3,7,8-PeCDF	29.78	2.276e4	1.901e4	1.324e3	1.114e3	1.19	YES	2.438e3	0.00000	0.97830	0.149
5	Total Penta-Furans	30.04	9.954e3	7.366e3	6.928e2	3.868e2	1.79	YES	0.000e0	0.00000	0.44041	0.150
6	2,3,4,7,8-PeCDF	30.85	2.409e4	1.591e4	1.078e3	7.519e2	1.43	NO	1.830e3	0.73059	0.73059	0.136

Vista Analytical Laboratory

Dataset: U:\WG12.PRO\Results\201220R1\201220R1-10.qld

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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	8.426e3	7.567e3	3.590e2	2.944e2	1.22	NO	6.534e2	0.40122	0.40122	0.140
2	Total Hexa-Furans	32.35	2.563e4	1.770e4	1.138e3	8.436e2	1.35	NO	1.982e3	1.2168	1.2168	0.140
3	Total Hexa-Furans	32.97	3.374e4	2.745e4	1.631e3	1.430e3	1.14	NO	3.061e3	1.8799	1.8799	0.140
4	1,2,3,4,7,8-HxCDF	33.44	2.198e4	2.239e4	1.237e3	1.040e3	1.19	NO	2.277e3	1.3958	1.3958	0.133
5	1,2,3,6,7,8-HxCDF	33.56	6.956e3	4.918e3	3.459e2	2.756e2	1.25	NO	6.216e2	0.36705	0.36705	0.128
6	Total Hexa-Furans	34.03	3.332e3	2.770e3	1.425e2	1.294e2	1.10	NO	2.718e2	0.16694	0.16694	0.140
7	1,2,3,7,8,9-HxCDF	35.26	3.332e3	2.268e3	1.516e2	1.360e2	1.11	NO	2.875e2	0.19196	0.19196	0.167
8	Total Hexa-Furans	35.29	2.404e3	1.574e3	4.575e1	3.998e1	1.14	NO	8.573e1	0.052644	0.052644	0.140

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	1.993e4	2.301e4	1.559e3	1.553e3	1.00	NO	3.113e3	2.5870	2.5870	0.165
2	Total Hepta-Furans	37.53	4.772e4	4.599e4	2.968e3	2.948e3	1.01	NO	5.916e3	5.3320	5.3320	0.162
3	1,2,3,4,7,8,9-HpCDF	38.82	3.805e3	5.585e3	2.075e2	2.435e2	0.85	YES	4.510e2	0.00000	0.35758	0.142

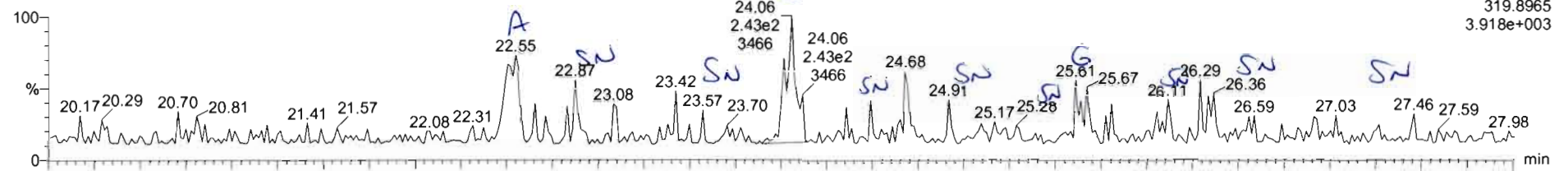
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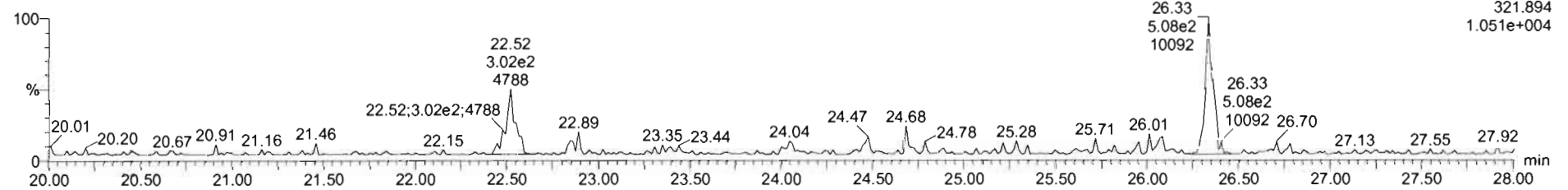
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2,3,7,8-TCDD

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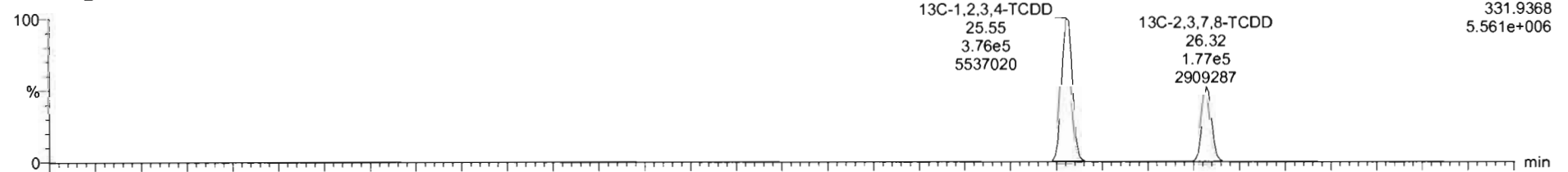


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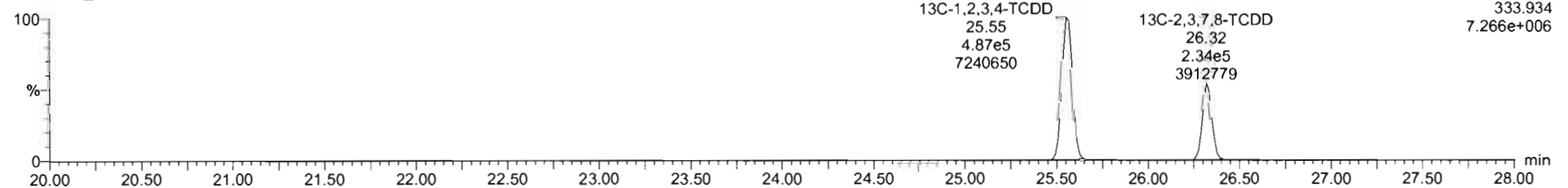


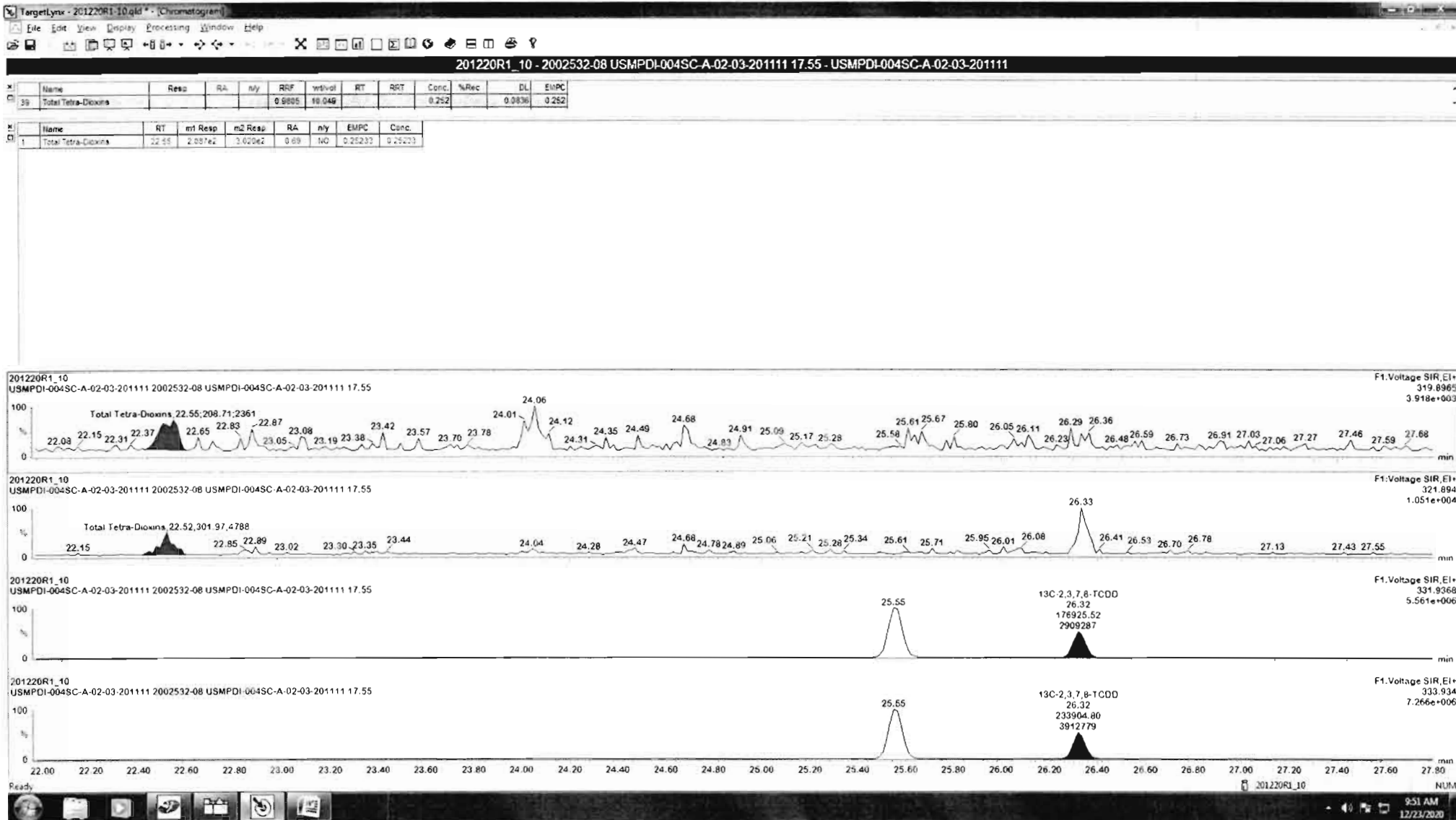
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201220R1_10



201220R1_10





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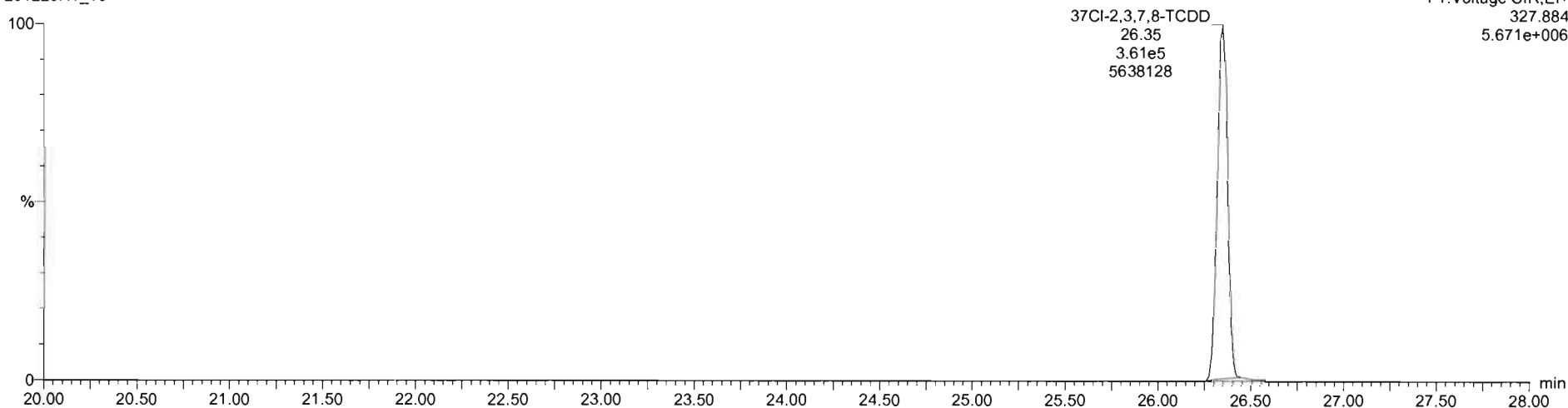
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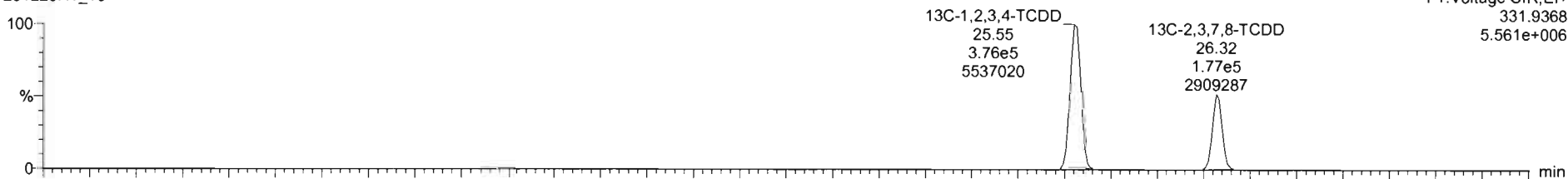
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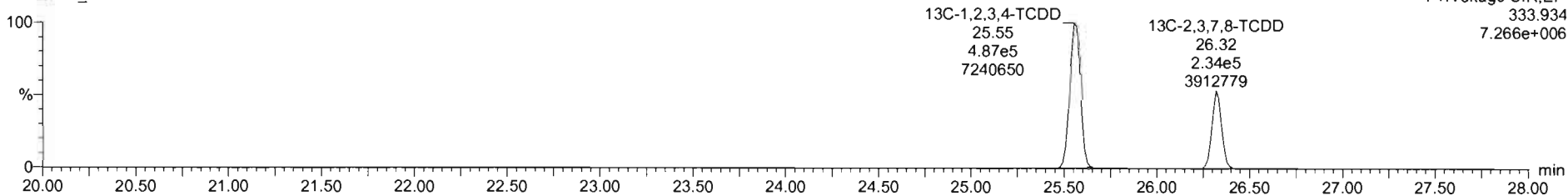


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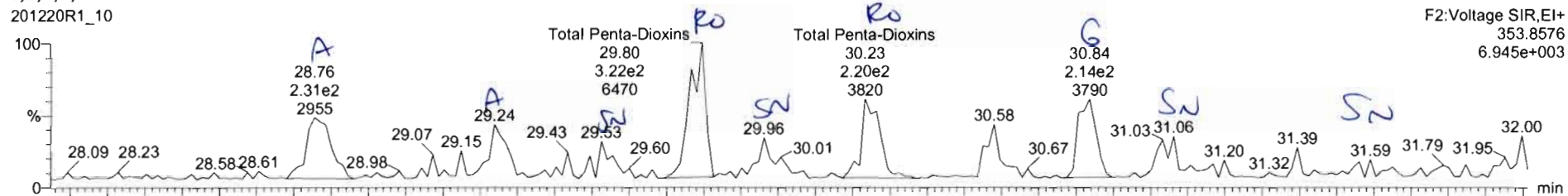
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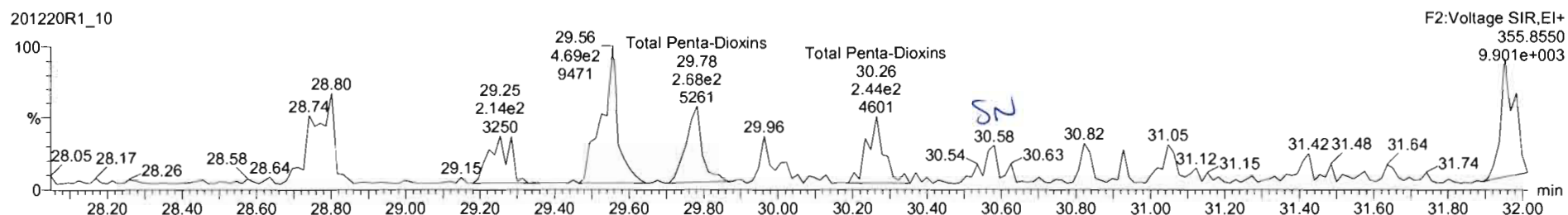
1,2,3,7,8-PeCDD

201220R1_10



F2:Voltage SIR,El+
353.8576
6.945e+003

201220R1_10



F2:Voltage SIR,El+
355.8550
9.901e+003

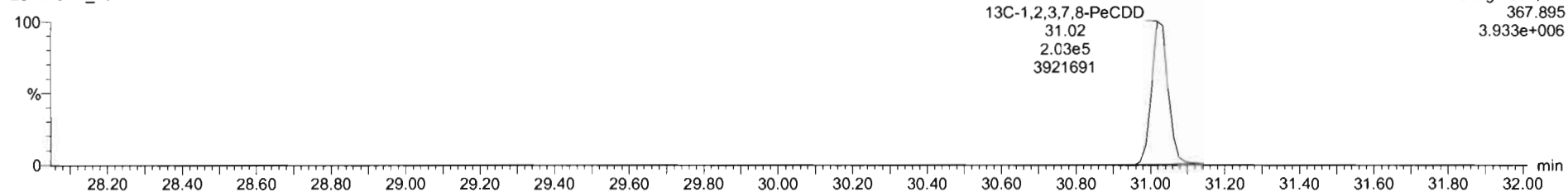
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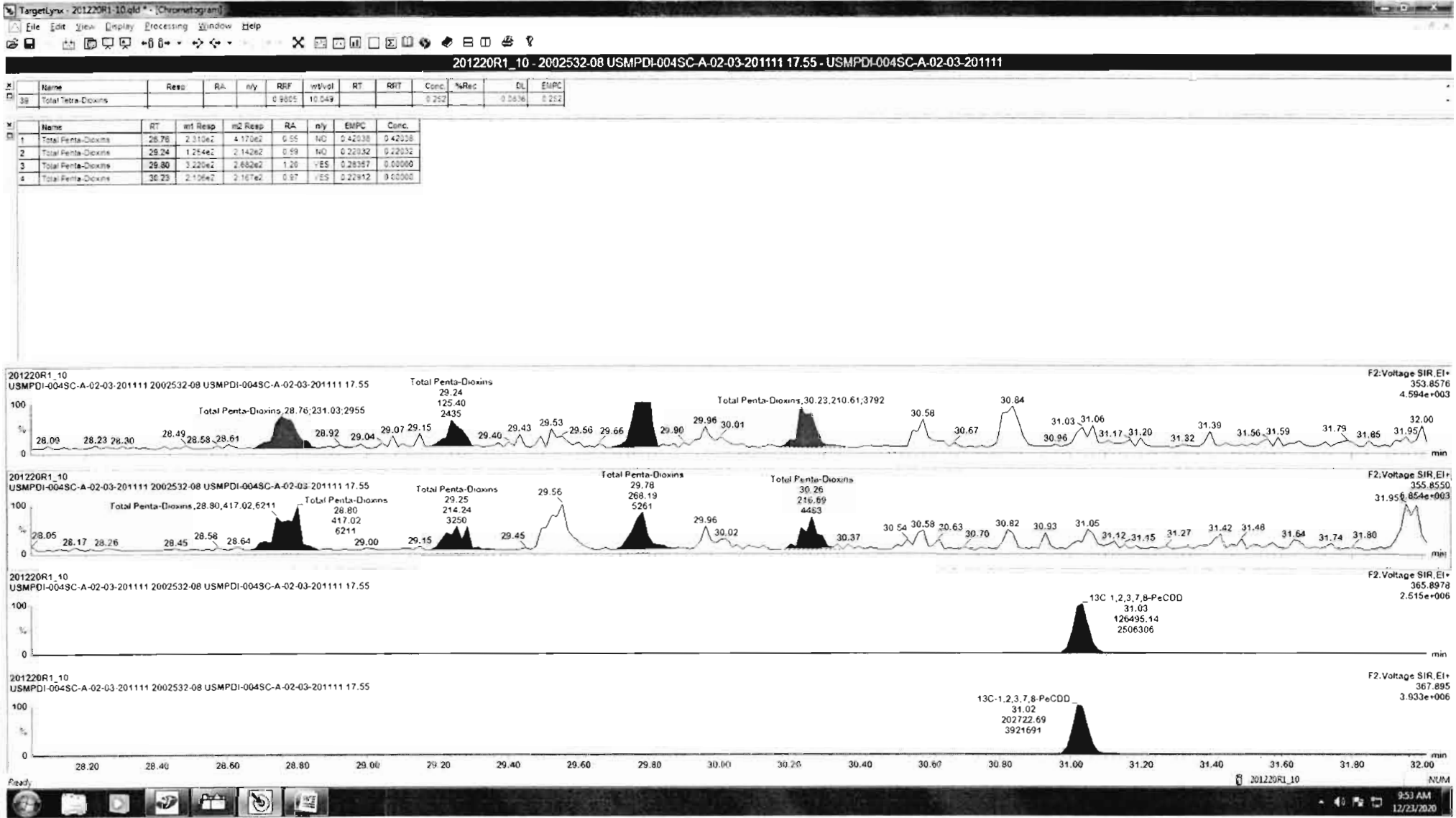


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365.8978
2.515e+006

201220R1_10



F2:Voltage SIR,El+
367.895
3.933e+006



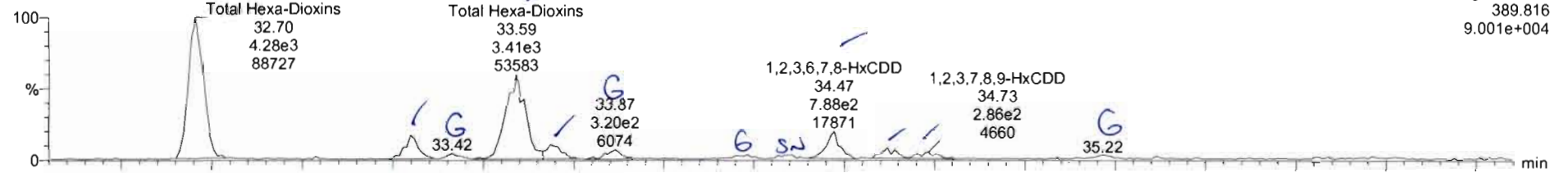
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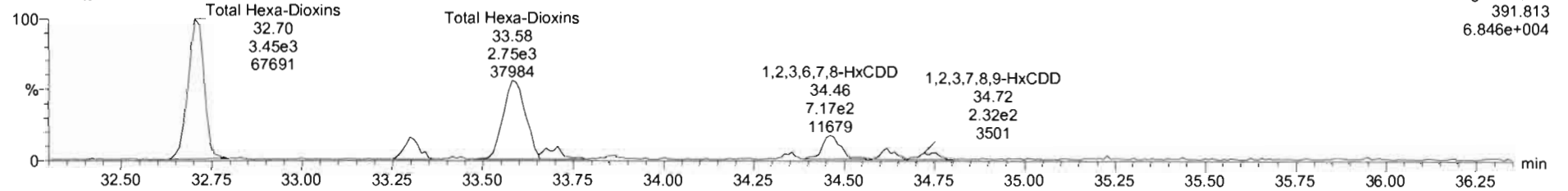
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1,2,3,4,7,8-HxCDD

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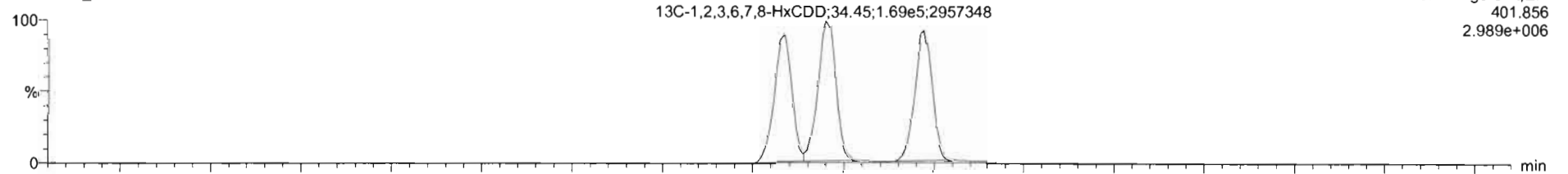


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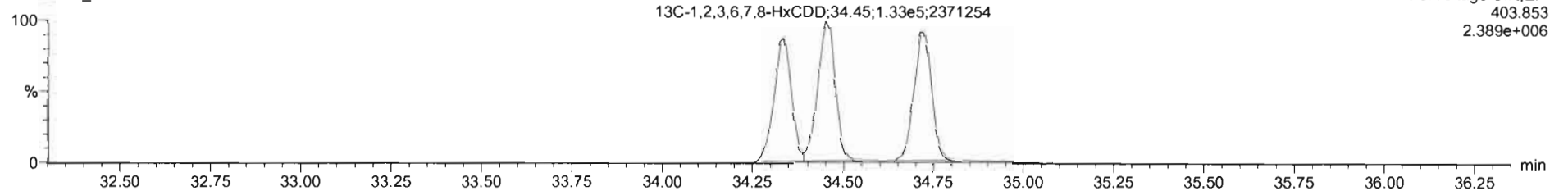


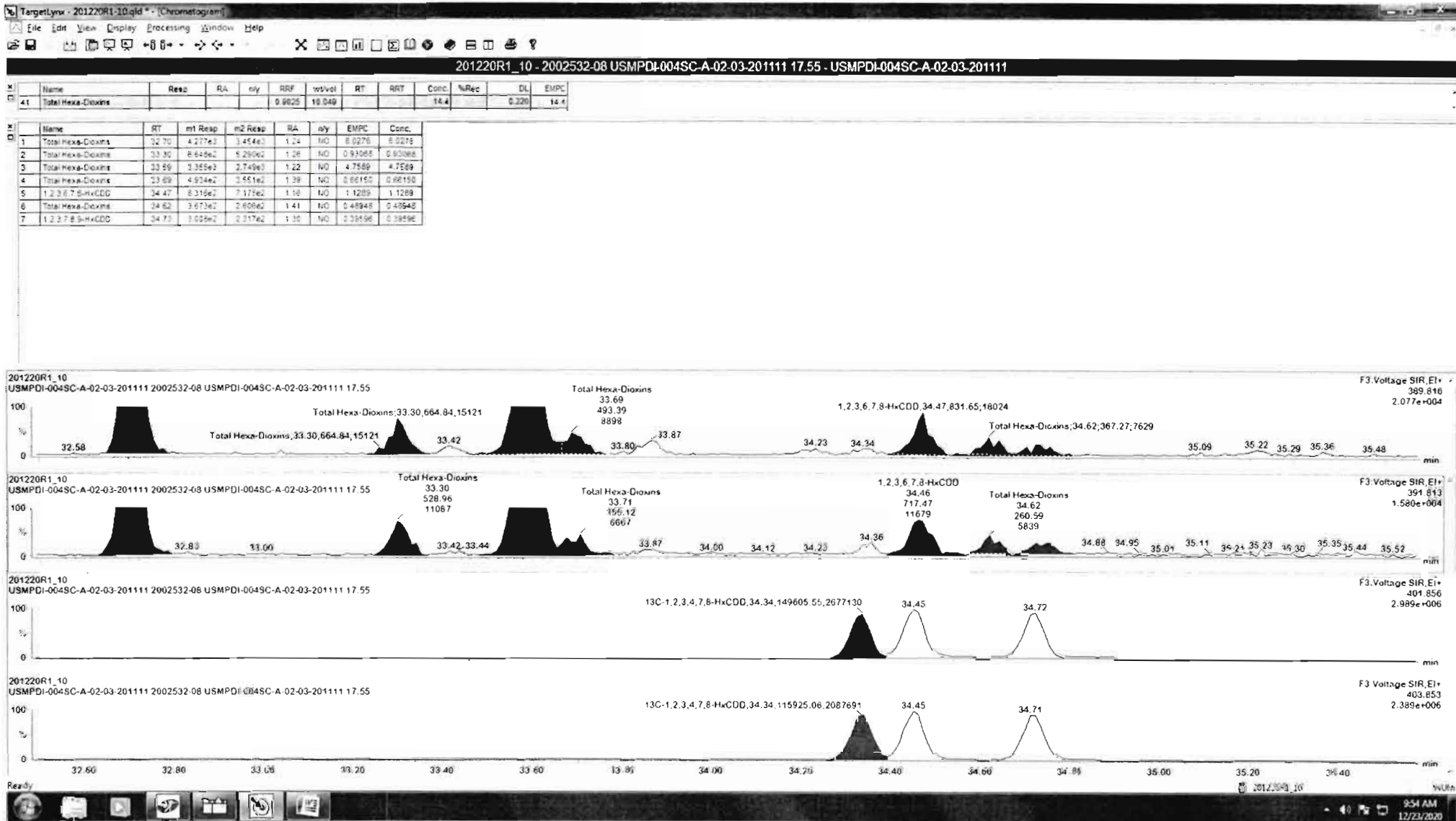
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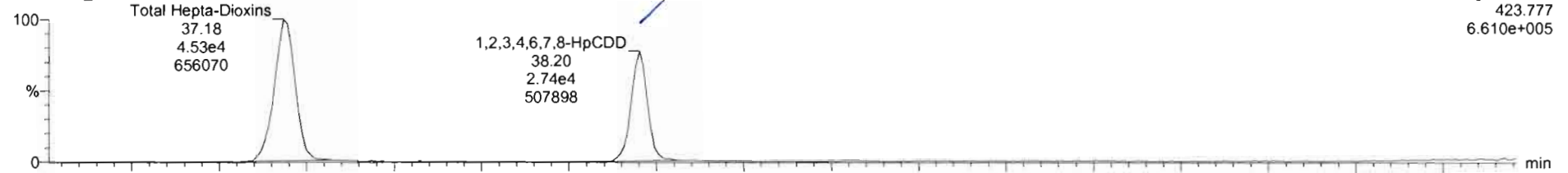
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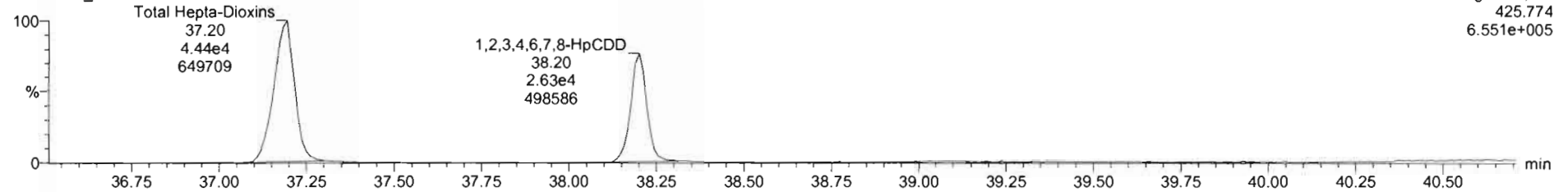
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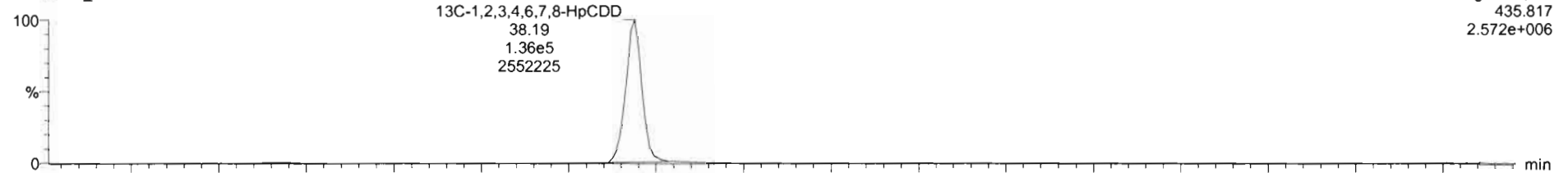


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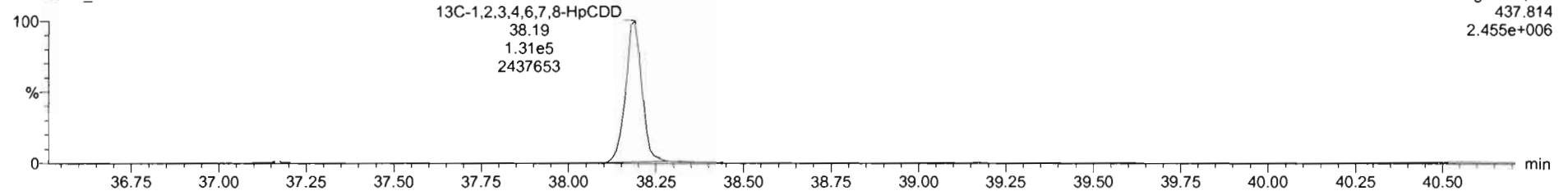


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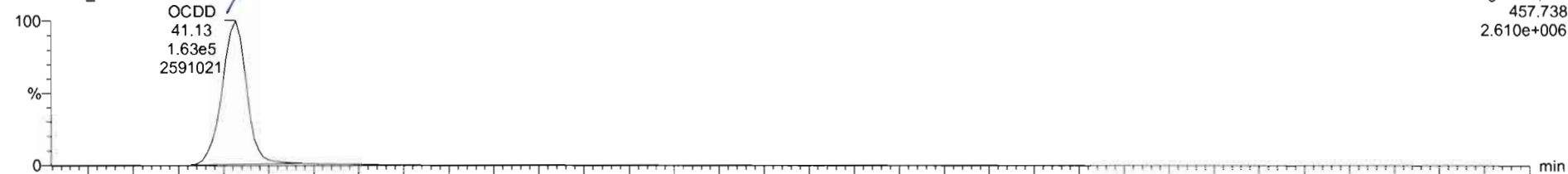
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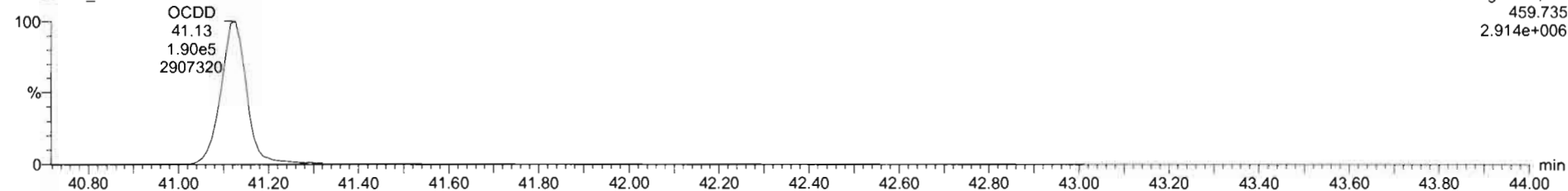
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OCDD

201220R1_10

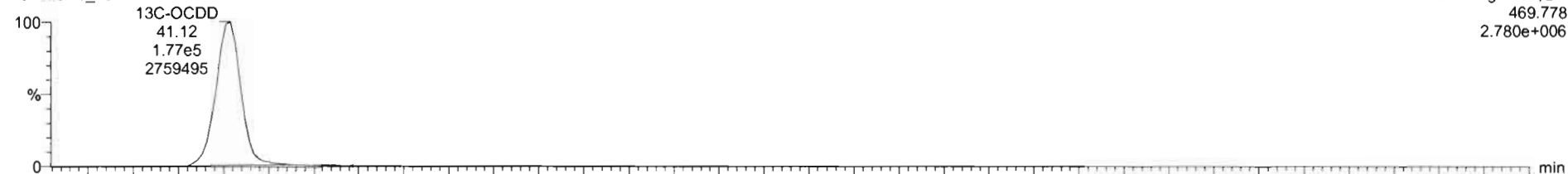


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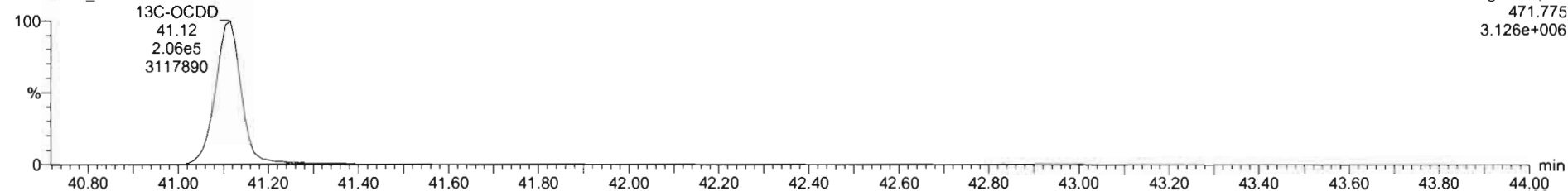


13C-OCDD

201220R1_10



201220R1_10

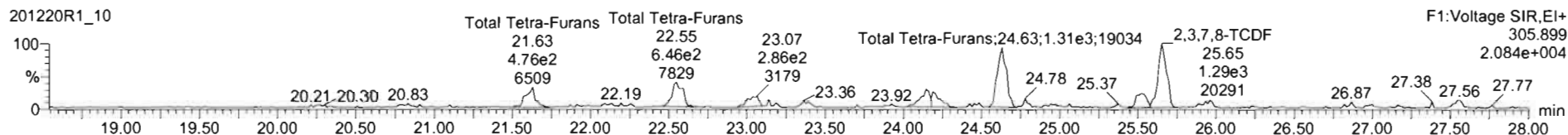
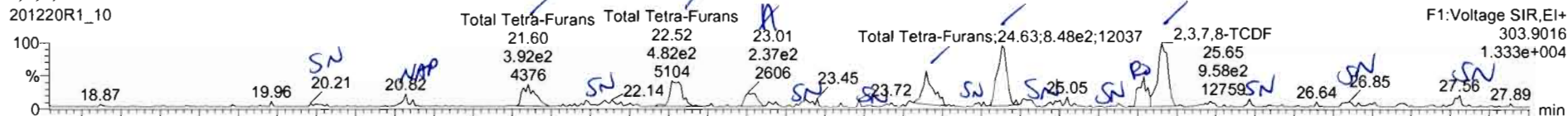


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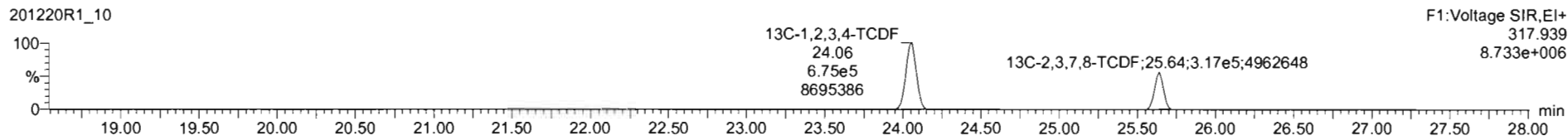
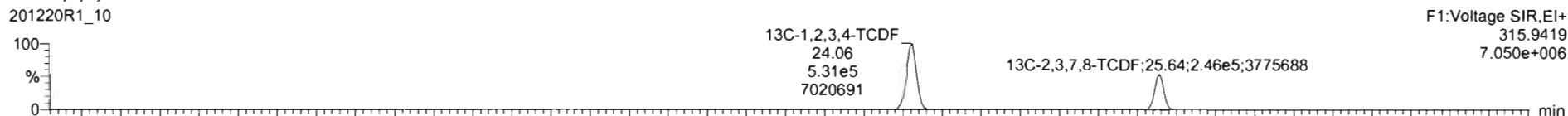
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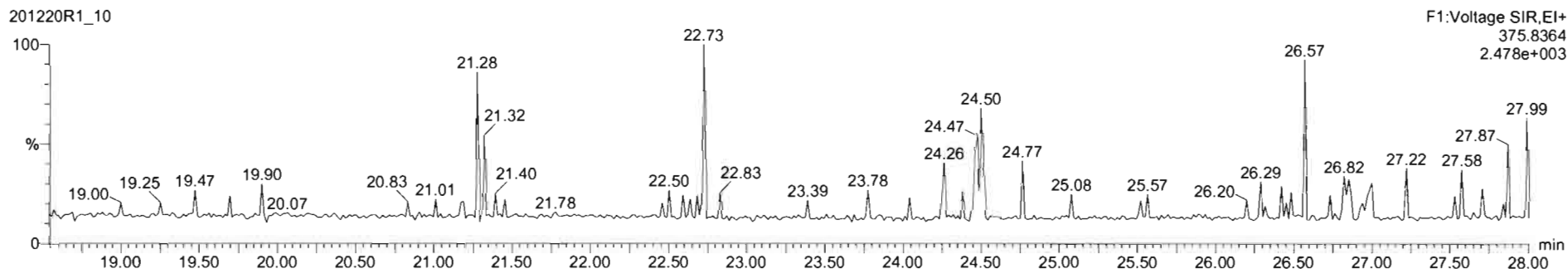
2,3,7,8-TCDF

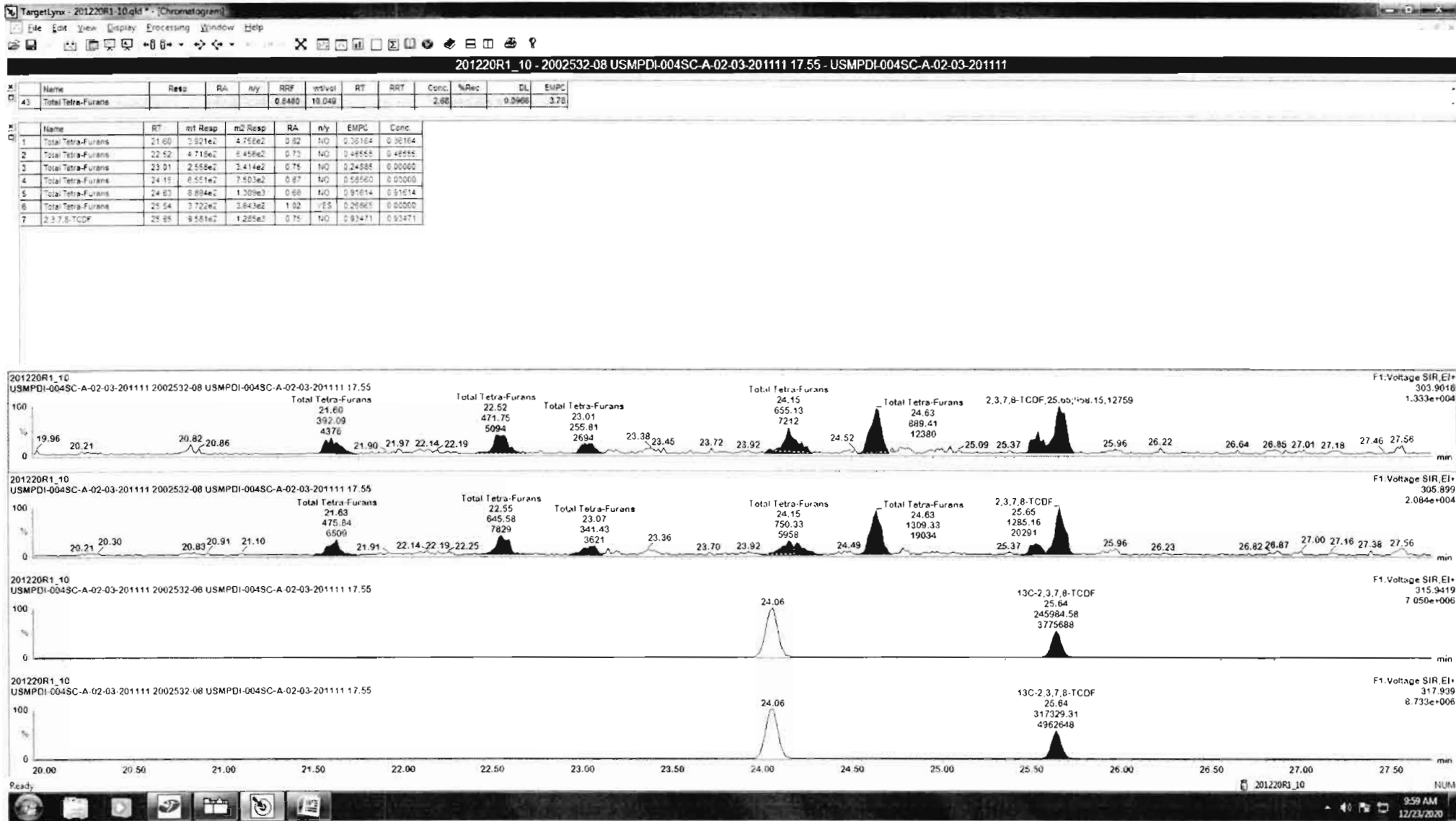


13C-2,3,7,8-TCDF



DPE1





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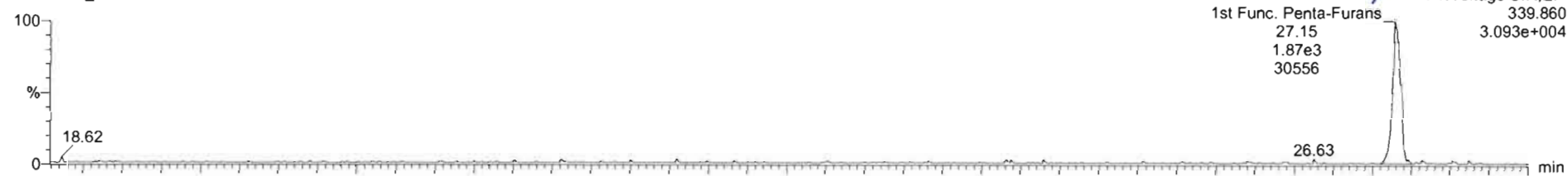
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Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

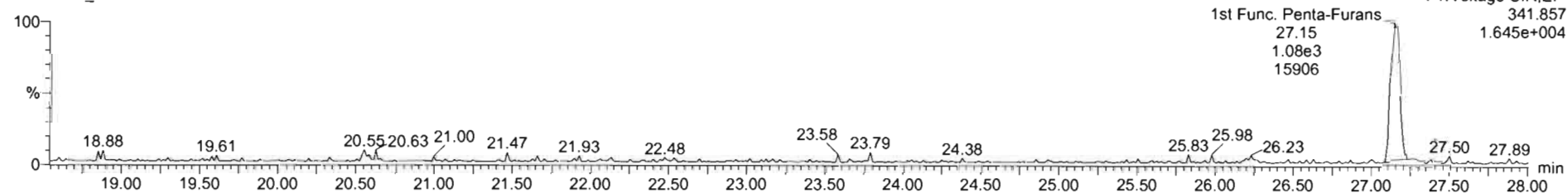
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1st Func. Penta-Furans

201220R1_10

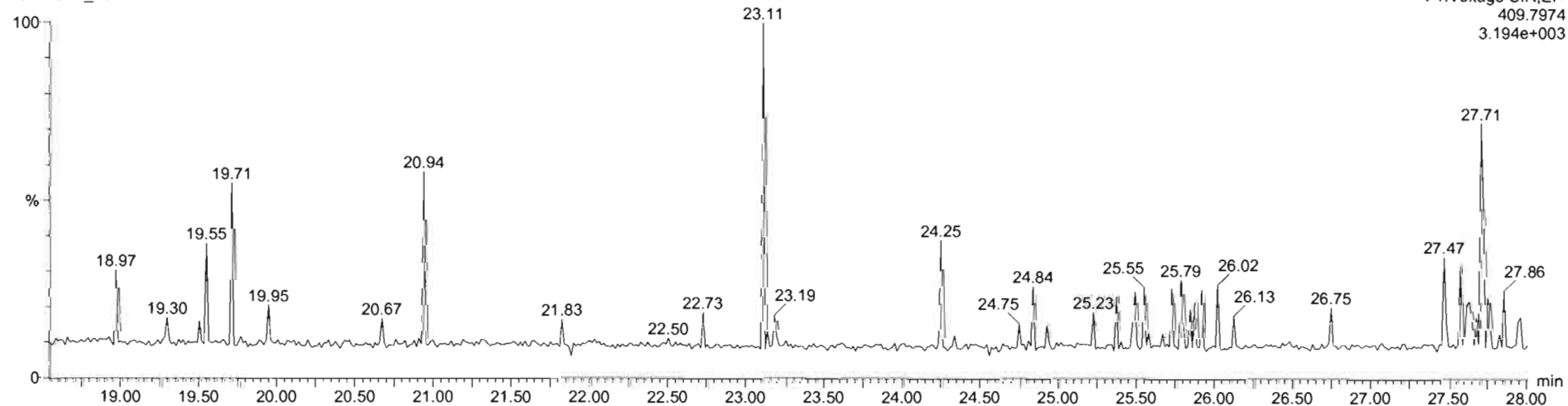


201220R1_10



DPE6

201220R1_10



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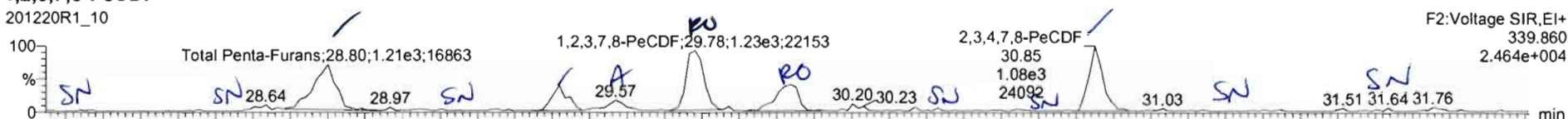
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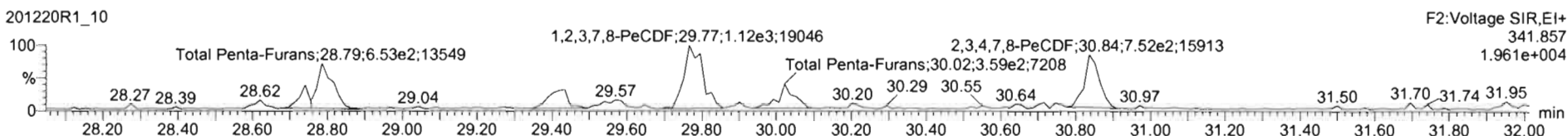
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1,2,3,7,8-PeCDF

201220R1_10



201220R1_10

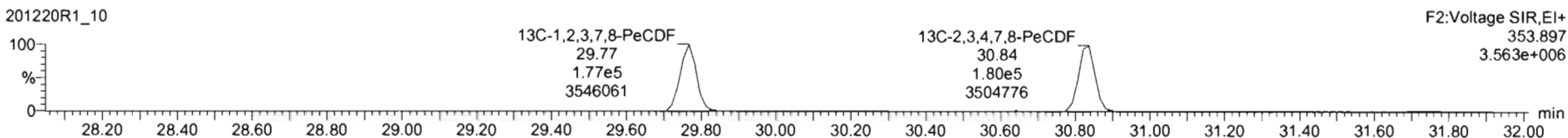


13C-1,2,3,7,8-PeCDF

201220R1_10

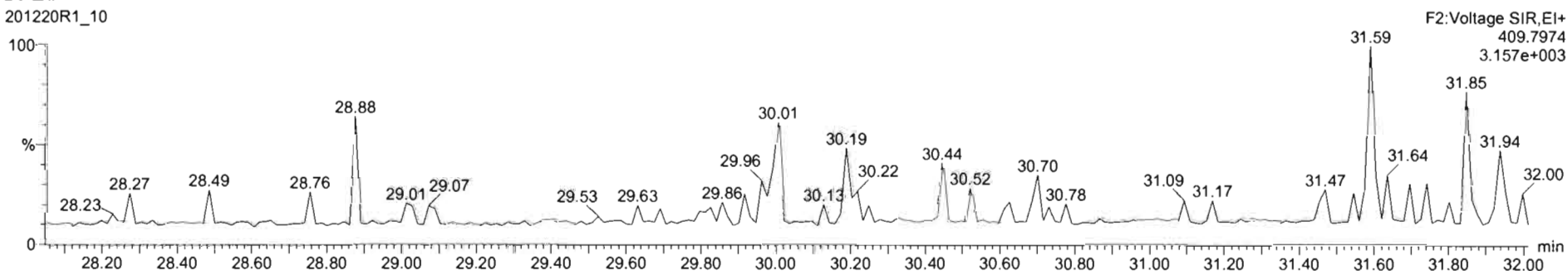


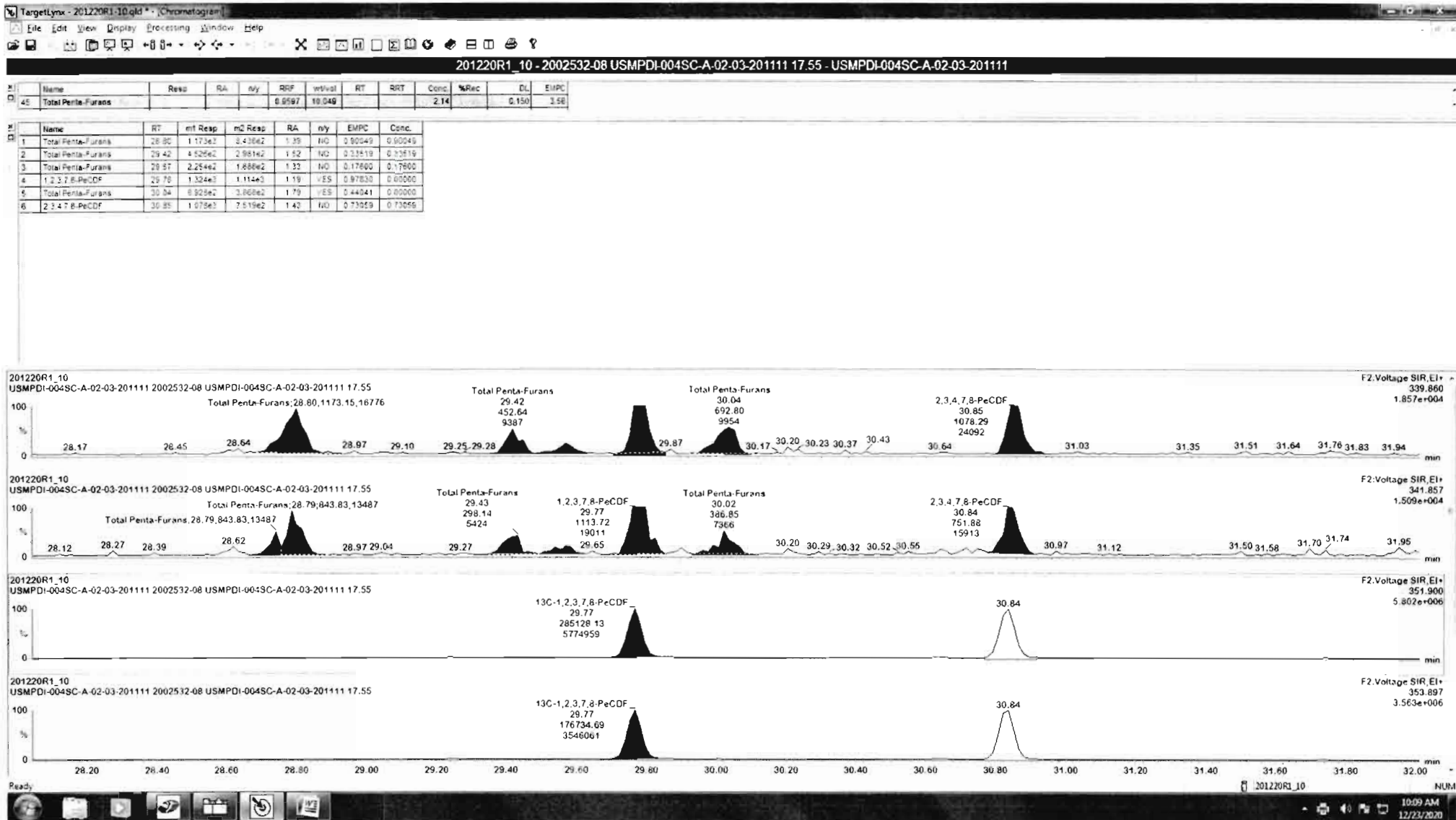
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DPE2

201220R1_10





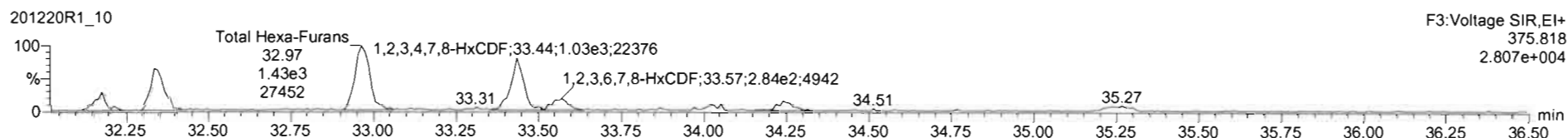
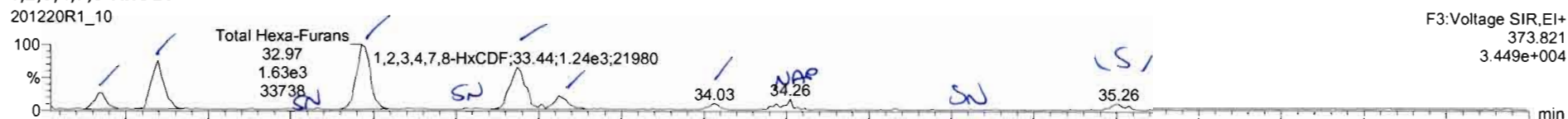
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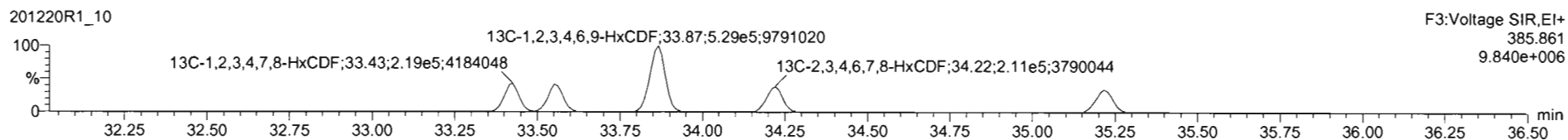
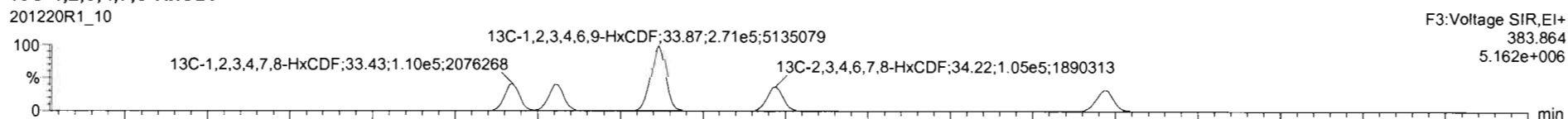
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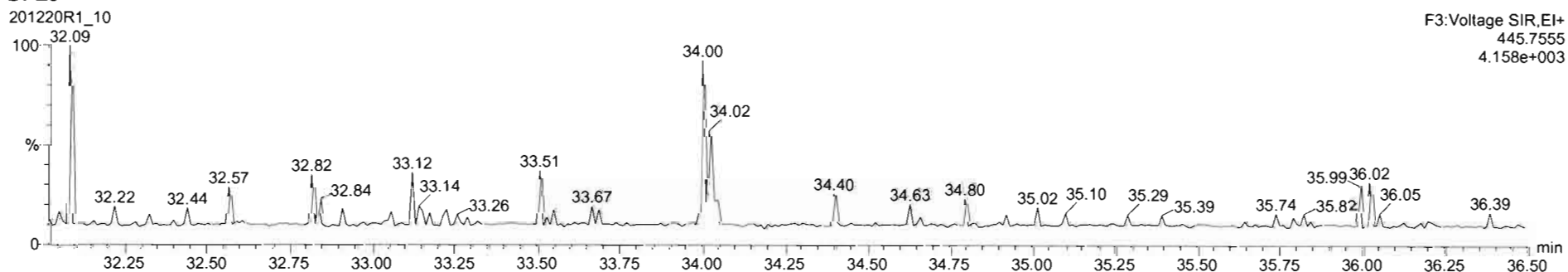
1,2,3,4,7,8-HxCDF

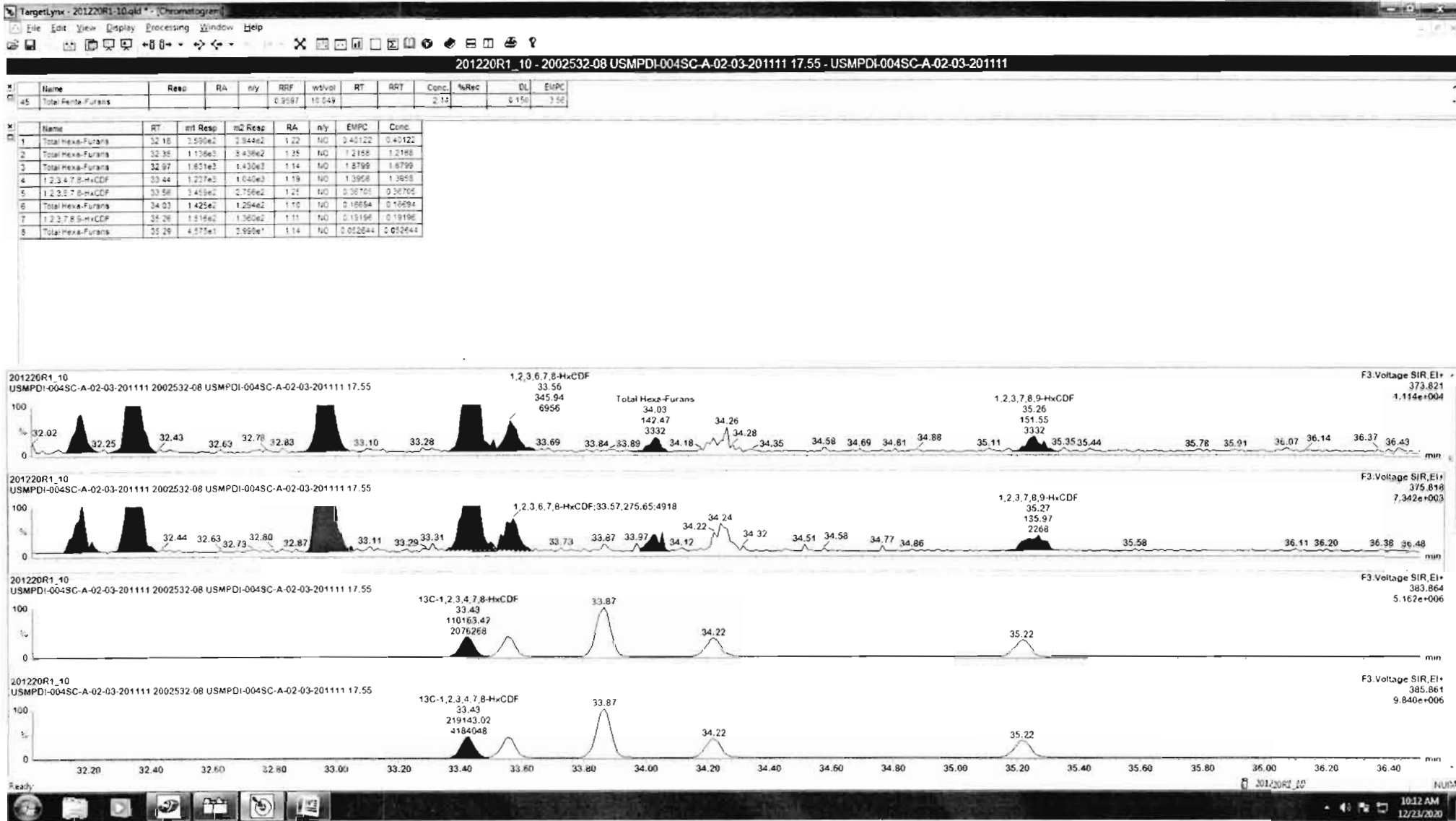


13C-1,2,3,4,7,8-HxCDF



DPE3





Dataset: Untitled

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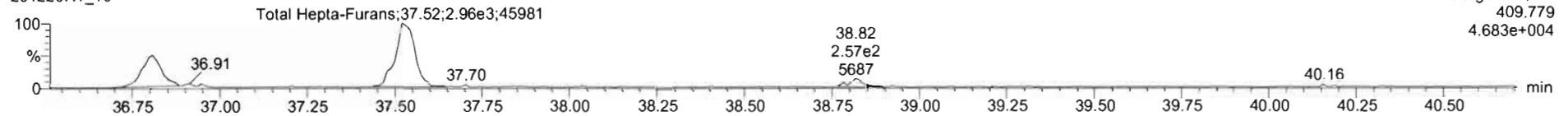
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1,2,3,4,6,7,8-HpCDF

201220R1_10

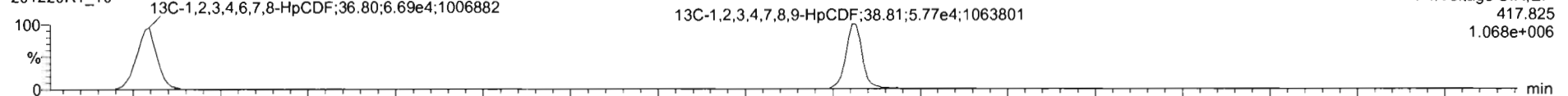


201220R1_10

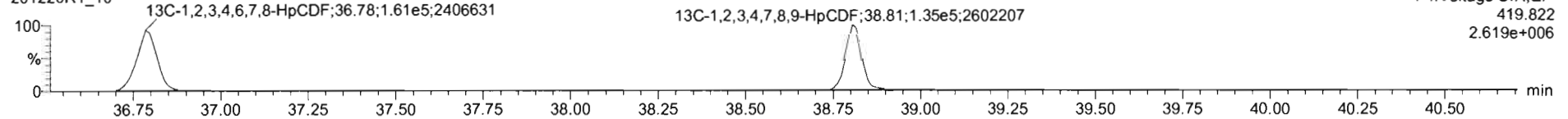


13C-1,2,3,4,6,7,8-HpCDF

201220R1_10

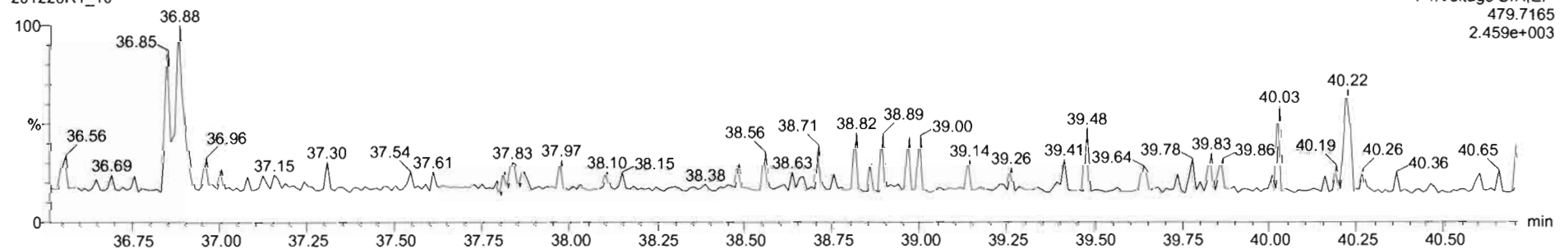


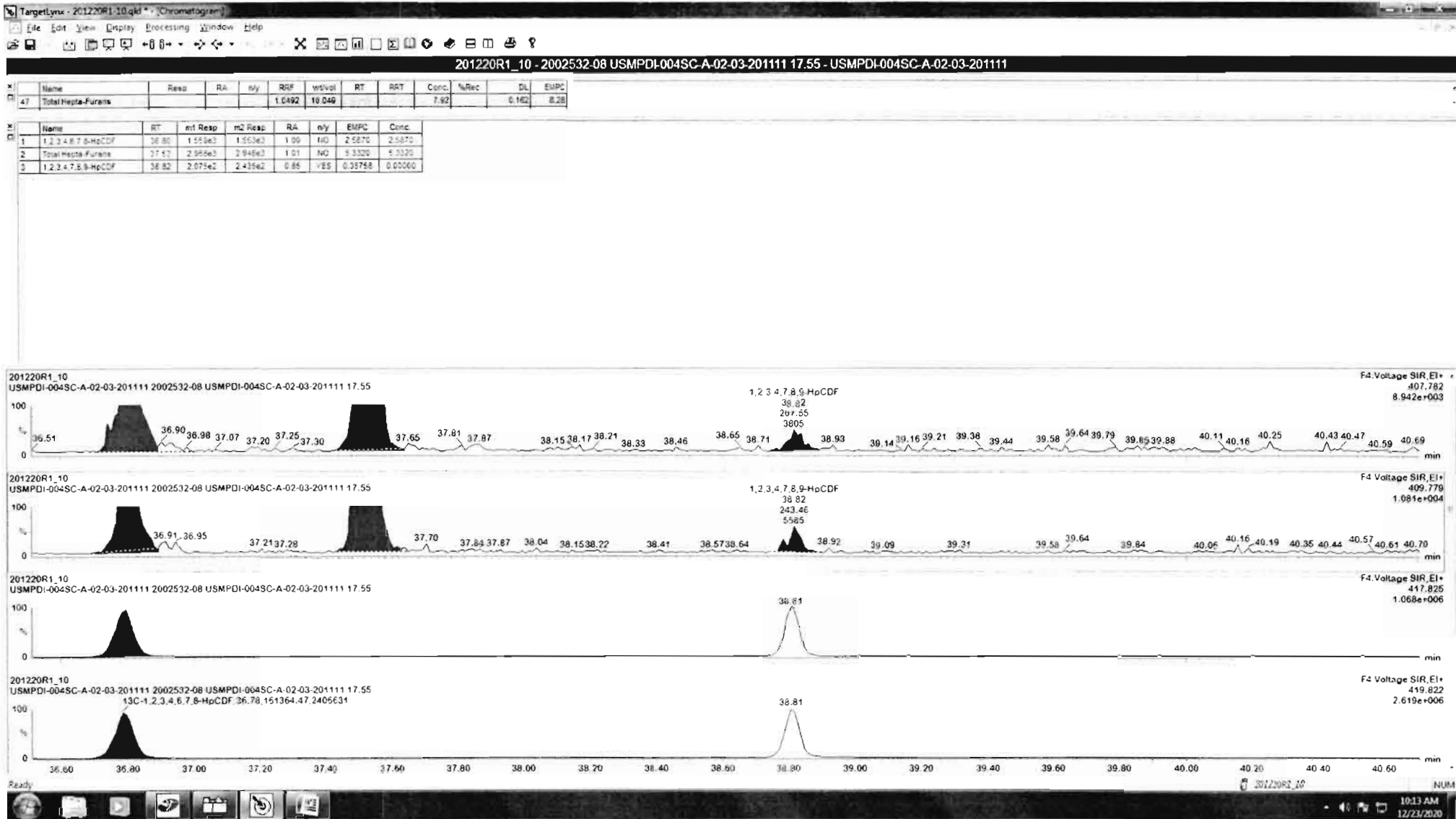
201220R1_10



DPE4

201220R1_10

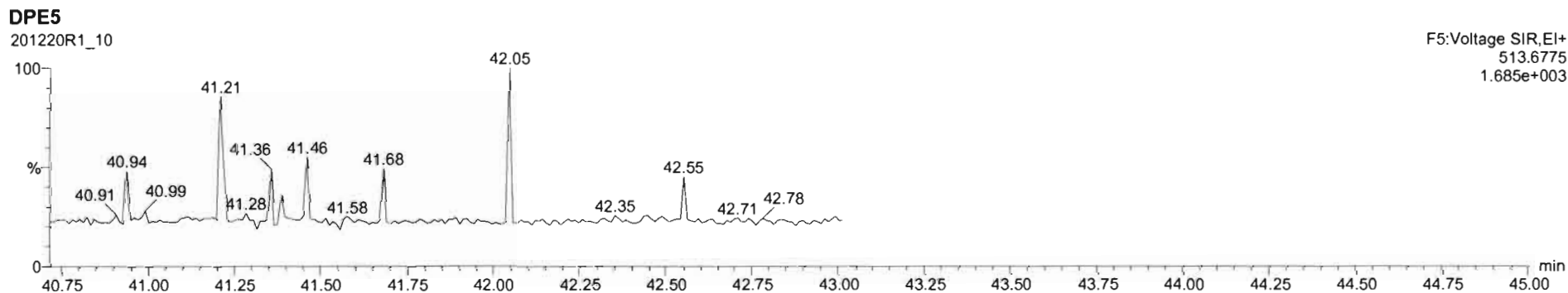
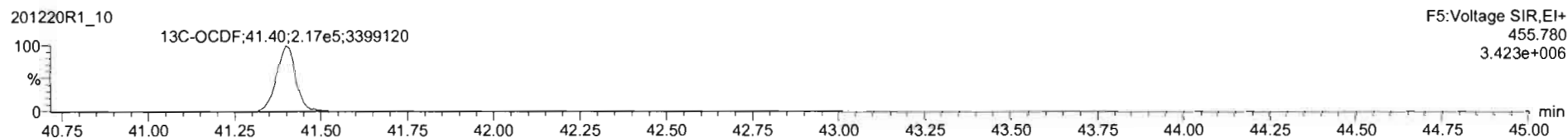
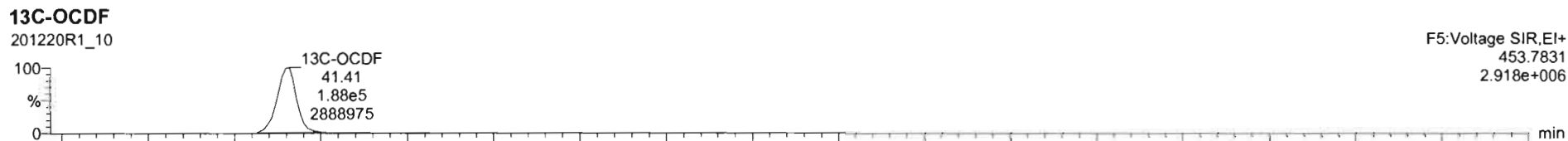
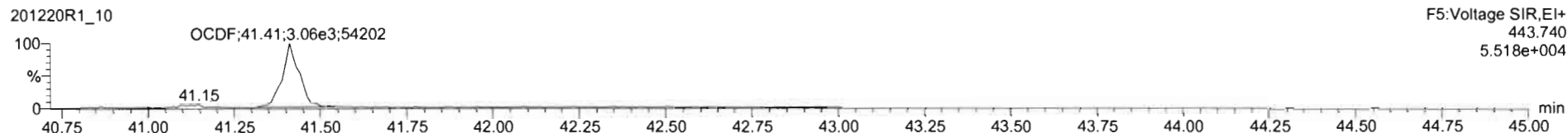
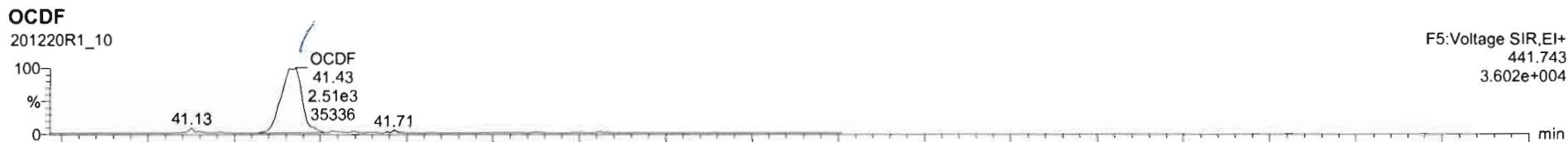




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Last Altered: Monday, December 21, 2020 06:50:00 Pacific Standard Time
Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

Name: 201220R1_10, Date: 20-Dec-2020, Time: 15:10:02, ID: 2002532-08 USMPDI-004SC-A-02-03-201111 17.55, Description: USMPDI-004SC-A-02-03-201111

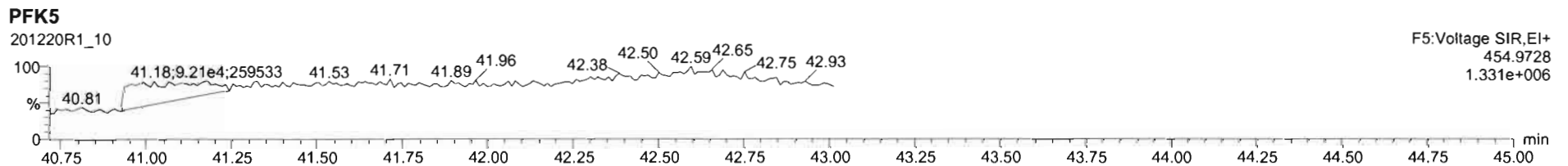
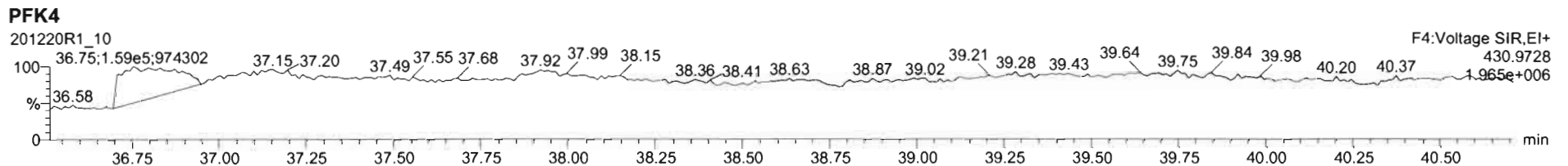
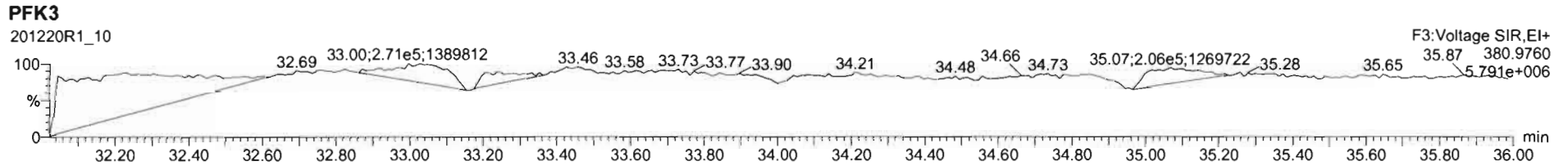
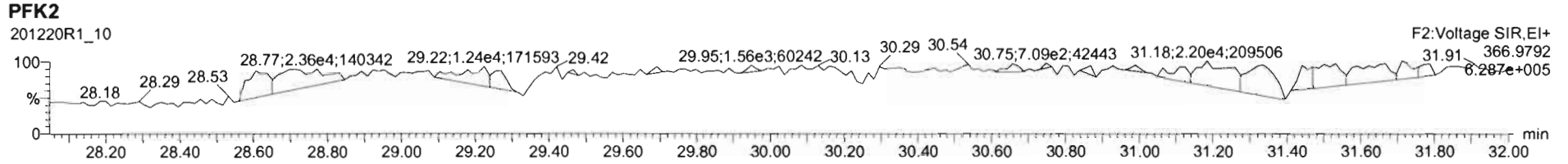
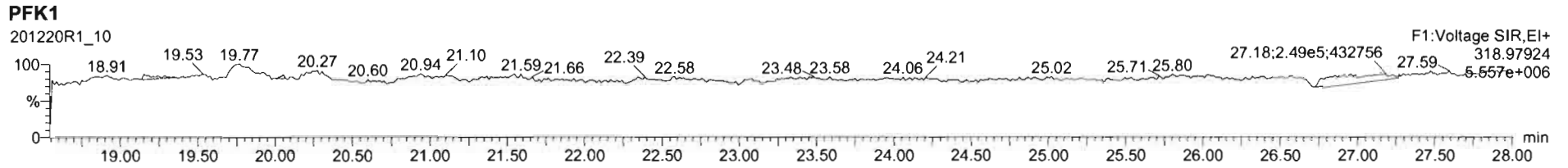


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Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

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Dataset: U:\VG12.PRO\Results\201220R1\201220R1-11B.qld

Last Altered: Monday, December 28, 2020 7:57:06 AM Pacific Standard Time

Printed: Monday, December 28, 2020 7:57:52 AM Pacific Standard Time

GPB 12/28/2020

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

**SEE DIL. MLL 12/28/20*

Name: 201220R1_11, Date: 20-Dec-2020, Time: 15:54:19, ID: 2002532-09 USMPDI-004SC-A-03-04-201111 17.26, Description: USMPDI-004SC-A-03-04-201111

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	4.77e3	0.71	NO	0.980	10.068	26.337	26.33	1.001	1.001	1.2091		0.0593	1.21
2	2 1,2,3,7,8-PeCDD	6.08e3	0.66	NO	0.932	10.068	31.049	31.03	1.001	1.000	2.0105		0.0824	2.01
3	3 1,2,3,4,7,8-HxCDD	6.87e3	1.28	NO	1.02	10.068	34.347	34.34	1.001	1.000	2.8703		0.459	2.87
4	4 1,2,3,6,7,8-HxCDD	4.25e4	1.29	NO	0.902	10.068	34.462	34.46	1.001	1.001	18.272		0.496	18.3
5	5 1,2,3,7,8,9-HxCDD	1.51e4	1.26	NO	0.954	10.068	34.724	34.72	1.000	1.000	6.2130		0.483	6.21
6	6 1,2,3,4,6,7,8-HpCDD	1.49e6	1.02	NO	0.918	10.068	38.200	38.20	1.000	1.000	720.52		2.20	721
7	7 OCDD	1.13e7	0.88	NO	0.866	10.068	41.113	41.12	1.000	1.000	6737.6 <i>EX</i>		1.03	6740
8	8 2,3,7,8-TCDF	1.33e5	0.75	NO	0.848	10.068	25.628	25.64	1.000	1.001	28.551		0.0868	28.6
9	9 1,2,3,7,8-PeCDF	1.72e5	1.57	NO	0.960	10.068	29.754	29.77	1.000	1.001	40.225		0.224	40.2
10	10 2,3,4,7,8-PeCDF	1.14e5	1.54	NO	1.07	10.068	30.844	30.84	1.001	1.000	24.554		0.211	24.6
11	11 1,2,3,4,7,8-HxCDF	2.07e5	1.24	NO	0.986	10.068	33.426	33.44	1.000	1.001	71.463		0.209	71.5
12	12 1,2,3,6,7,8-HxCDF	5.68e4	1.30	NO	1.04	10.068	33.571	33.56	1.001	1.000	18.912		0.195	18.9
13	13 2,3,4,6,7,8-HxCDF	2.12e4	1.23	NO	1.02	10.068	34.232	34.24	1.001	1.001	7.5237		0.217	7.52
14	14 1,2,3,7,8,9-HxCDF	3.28e3	1.18	NO	0.991	10.068	35.217	35.23	1.000	1.001	1.2572		0.265	1.26
15	15 1,2,3,4,6,7,8-HpCDF	2.13e5	1.01	NO	1.05	10.068	36.792	36.80	1.000	1.001	99.375		0.410	99.4
16	16 1,2,3,4,7,8,9-HpCDF	2.80e4	1.02	NO	1.18	10.068	38.817	38.82	1.000	1.000	13.774		0.326	13.8
17	17 OCDF	3.12e5	0.90	NO	0.896	10.068	41.396	41.41	1.000	1.001	190.66		0.396	191
18	18 13C-2,3,7,8-TCDD	7.99e5	0.77	NO	1.06	10.068	26.323	26.31	1.030	1.030	189.80	95.5	0.162	
19	19 13C-1,2,3,7,8-PeCDD	6.45e5	0.63	NO	0.785	10.068	31.157	31.02	1.219	1.214	206.08	104	0.228	
20	20 13C-1,2,3,4,7,8-HxCDD	4.66e5	1.30	NO	0.621	10.068	34.315	34.33	1.014	1.014	208.53	105	0.379	
21	21 13C-1,2,3,6,7,8-HxCDD	5.12e5	1.26	NO	0.734	10.068	34.437	34.44	1.017	1.017	193.66	97.5	0.321	
22	22 13C-1,2,3,7,8,9-HxCDD	5.05e5	1.27	NO	0.723	10.068	34.722	34.71	1.026	1.025	194.02	97.7	0.326	
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.49e5	1.05	NO	0.568	10.068	38.219	38.19	1.129	1.128	219.46	110	0.742	
24	24 13C-OCDD	7.68e5	0.88	NO	0.496	10.068	41.154	41.10	1.216	1.214	430.05	108	0.472	
25	25 13C-2,3,7,8-TCDF	1.09e6	0.78	NO	0.919	10.068	25.623	25.63	1.003	1.003	201.36	101	0.211	
26	26 13C-1,2,3,7,8-PeCDF	8.86e5	1.60	NO	0.715	10.068	29.869	29.75	1.169	1.164	210.33	106	0.340	
27	27 13C-2,3,4,7,8-PeCDF	8.62e5	1.56	NO	0.689	10.068	30.955	30.82	1.212	1.206	212.52	107	0.353	
28	28 13C-1,2,3,4,7,8-HxCDF	5.85e5	0.51	NO	0.873	10.068	33.422	33.42	0.987	0.987	185.83	93.5	0.505	
29	29 13C-1,2,3,6,7,8-HxCDF	5.74e5	0.50	NO	0.933	10.068	33.550	33.55	0.991	0.991	170.77	86.0	0.472	
30	30 13C-2,3,4,6,7,8-HxCDF	5.49e5	0.50	NO	0.843	10.068	34.217	34.21	1.011	1.011	180.69	91.0	0.523	
31	31 13C-1,2,3,7,8,9-HxCDF	5.23e5	0.51	NO	0.780	10.068	35.216	35.21	1.040	1.040	186.24	93.8	0.565	

Dataset: U:\VG12.PRO\Results\201220R1\201220R1-11B.qld

Last Altered: Monday, December 28, 2020 7:57:06 AM Pacific Standard Time

Printed: Monday, December 28, 2020 7:57:52 AM Pacific Standard Time

Name: 201220R1_11, Date: 20-Dec-2020, Time: 15:54:19, ID: 2002532-09 USMPDI-004SC-A-03-04-201111 17.26, Description: USMPDI-004SC-A-03-04-201111

	# 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	4.06e5	0.42	NO	0.726	10.068	36.790	36.77	1.087	1.086	155.04	78.1	0.583	
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.43e5	0.43	NO	0.491	10.068	38.798	38.81	1.146	1.146	193.80	97.6	0.863	
34	34 13C-OCDF	7.26e5	0.85	NO	0.565	10.068	41.371	41.39	1.222	1.223	356.40	89.7	0.429	
35	35 37Cl-2,3,7,8-TCDD	3.52e5			1.22	10.068	26.318	26.33	1.030	1.031	72.623	91.4	0.0441	
36	36 13C-1,2,3,4-TCDD	7.92e5	0.78	NO	1.00	10.068	25.640	25.55	1.000	1.000	198.64	100	0.171	
37	37 13C-1,2,3,4-TCDF	1.17e6	0.78	NO	1.00	10.068	24.130	24.04	1.000	1.000	198.64	100	0.194	
38	38 13C-1,2,3,4,6,9-HxCDF	7.16e5	0.51	NO	1.00	10.068	33.920	33.85	1.000	1.000	198.64	100	0.441	
39	39 Total Tetra-Dioxins				0.980	10.068	24.620		0.000		10.341		0.0593	10.8
40	40 Total Penta-Dioxins				0.932	10.068	29.960		0.000		19.832		0.0824	19.8
41	41 Total Hexa-Dioxins				0.902	10.068	33.635		0.000		226.45		0.508	226
42	42 Total Hepta-Dioxins				0.918	10.068	37.640		0.000		1649.1		2.20	1650
43	43 Total Tetra-Furans				0.848	10.068	23.610		0.000		103.37		0.0868	118
44	44 1st Func. Penta-Furans				0.960	10.068	26.930		0.000		36.351		0.0283	36.4
45	45 Total Penta-Furans				0.960	10.068	29.275		0.000		131.71		0.229	132
46	46 Total Hexa-Furans				1.02	10.068	33.555		0.000		218.17		0.218	218
47	47 Total Hepta-Furans				1.05	10.068	37.835		0.000		263.22		0.390	263

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201220R1\201220R1-11B.qld

Last Altered: Monday, December 28, 2020 7:57:06 AM Pacific Standard Time

Printed: Monday, December 28, 2020 7:57:52 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

Name: 201220R1_11, Date: 20-Dec-2020, Time: 15:54:19, ID: 2002532-09 USMPDI-004SC-A-03-04-201111 17.26, Description: USMPDI-004SC-A-03-04-201111

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.50	7.548e4	9.574e4	6.562e3	8.392e3	0.78	NO	1.495e4	3.7922	3.7922	0.0593
2	Total Tetra-Dioxins	22.84	2.390e4	2.531e4	1.843e3	2.190e3	0.84	NO	4.033e3	1.0227	1.0227	0.0593
3	Total Tetra-Dioxins	23.39	1.195e4	1.586e4	9.199e2	1.215e3	0.76	NO	2.135e3	0.54135	0.54135	0.0593
4	Total Tetra-Dioxins	24.22	7.246e3	9.401e3	5.584e2	6.791e2	0.82	NO	1.238e3	0.31383	0.31383	0.0593
5	Total Tetra-Dioxins	24.44	1.236e4	1.531e4	9.347e2	1.297e3	0.72	NO	2.231e3	0.56589	0.56589	0.0593
6	Total Tetra-Dioxins	24.68	2.015e4	2.827e4	1.322e3	1.978e3	0.67	NO	3.300e3	0.83689	0.83689	0.0593
7	Total Tetra-Dioxins	24.89	5.920e3	7.313e3	3.070e2	4.360e2	0.70	NO	7.431e2	0.18845	0.18845	0.0593
8	Total Tetra-Dioxins	25.18	7.160e3	8.030e3	3.913e2	4.484e2	0.87	NO	0.000e0	0.00000	0.21295	0.0593
9	Total Tetra-Dioxins	25.25	6.893e3	7.055e3	5.311e2	6.099e2	0.87	NO	1.141e3	0.28937	0.28937	0.0593
10	Total Tetra-Dioxins	25.58	6.760e3	5.689e3	3.036e2	3.669e2	0.83	NO	6.705e2	0.17003	0.17003	0.0593
11	Total Tetra-Dioxins	25.64	6.621e3	5.844e3	5.017e2	4.769e2	1.05	YES	0.000e0	0.00000	0.21407	0.0593
12	Total Tetra-Dioxins	26.05	2.068e4	3.037e4	1.767e3	2.332e3	0.76	NO	4.099e3	1.0395	1.0395	0.0593
13	2,3,7,8-TCDD	26.33	3.558e4	4.412e4	1.986e3	2.782e3	0.71	NO	4.768e3	1.2091	1.2091	0.0593
14	Total Tetra-Dioxins	26.66	7.666e3	8.505e3	4.921e2	6.018e2	0.82	NO	1.094e3	0.27740	0.27740	0.0593
15	Total Tetra-Dioxins	27.22	2.611e3	3.740e3	1.603e2	2.095e2	0.77	NO	3.698e2	0.093791	0.093791	0.0593

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.77	9.716e4	1.491e5	7.541e3	1.205e4	0.63	NO	1.959e4	6.4769	6.4769	0.0824
2	Total Penta-Dioxins	29.24	3.409e4	5.055e4	1.692e3	2.591e3	0.65	NO	4.283e3	1.4158	1.4158	0.0824
3	Total Penta-Dioxins	29.77	7.453e4	1.166e5	3.983e3	5.833e3	0.68	NO	9.816e3	3.2446	3.2446	0.0824
4	Total Penta-Dioxins	29.95	4.196e4	6.241e4	1.487e3	2.449e3	0.61	NO	3.936e3	1.3011	1.3011	0.0824
5	Total Penta-Dioxins	29.96	3.024e4	4.455e4	1.639e3	2.485e3	0.66	NO	4.125e3	1.3634	1.3634	0.0824
6	Total Penta-Dioxins	30.23	4.407e4	6.639e4	2.599e3	4.608e3	0.56	NO	7.208e3	2.3825	2.3825	0.0824
7	Total Penta-Dioxins	30.55	1.080e4	1.970e4	7.290e2	1.026e3	0.71	NO	1.756e3	0.58027	0.58027	0.0824
8	1,2,3,7,8-PeCDD	31.03	5.218e4	7.825e4	2.420e3	3.662e3	0.66	NO	6.082e3	2.0105	2.0105	0.0824
9	Total Penta-Dioxins	31.11	8.678e3	1.709e4	5.131e2	9.436e2	0.54	NO	1.457e3	0.48151	0.48151	0.0824
10	Total Penta-Dioxins	31.38	1.421e4	2.072e4	7.053e2	1.035e3	0.68	NO	1.741e3	0.57533	0.57533	0.0824

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Dataset: U:\WG12.PRO\Results\201220R1\201220R1-11B.qld

Last Altered: Monday, December 28, 2020 7:57:06 AM Pacific Standard Time

Printed: Monday, December 28, 2020 7:57:52 AM Pacific Standard Time

Name: 201220R1_11, Date: 20-Dec-2020, Time: 15:54:19, ID: 2002532-09 USMPDI-004SC-A-03-04-201111 17.26, Description: USMPDI-004SC-A-03-04-201111

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.69	2.825e6	2.366e6	1.292e5	1.036e5	1.25	NO	2.328e5	103.63	103.63	0.508
2	Total Hexa-Dioxins	33.29	2.481e5	1.886e5	1.160e4	9.345e3	1.24	NO	2.094e4	9.3202	9.3202	0.508
3	Total Hexa-Dioxins	33.59	1.423e6	1.136e6	9.772e4	7.854e4	1.24	NO	1.763e5	78.450	78.450	0.508
4	Total Hexa-Dioxins	33.69	1.123e5	8.776e4	5.524e3	4.320e3	1.28	NO	9.844e3	4.3813	4.3813	0.508
5	1,2,3,4,7,8-HxCDD	34.34	7.532e4	5.646e4	3.864e3	3.009e3	1.28	NO	6.873e3	2.8703	2.8703	0.459
6	1,2,3,6,7,8-HxCDD	34.46	4.590e5	3.454e5	2.392e4	1.860e4	1.29	NO	4.252e4	18.272	18.272	0.496
7	Total Hexa-Dioxins	34.62	7.836e4	5.665e4	4.344e3	3.092e3	1.40	NO	7.436e3	3.3098	3.3098	0.508
8	1,2,3,7,8,9-HxCDD	34.72	1.574e5	1.254e5	8.415e3	6.662e3	1.26	NO	1.508e4	6.2130	6.2130	0.483

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.17	1.467e7	1.469e7	9.721e5	9.544e5	1.02	NO	1.927e6	928.60	928.60	2.20
2	1,2,3,4,6,7,8-HpCDD	38.20	1.451e7	1.420e7	7.540e5	7.408e5	1.02	NO	1.495e6	720.52	720.52	2.20

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Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.26	2.214e4	3.009e4	1.865e3	2.597e3	0.72	NO	4.462e3	0.95847	0.95847	0.0868
2	Total Tetra-Furans	20.81	3.427e4	4.431e4	2.877e3	4.181e3	0.69	NO	7.058e3	1.5162	1.5162	0.0868
3	Total Tetra-Furans	21.60	1.884e5	2.443e5	1.689e4	2.199e4	0.77	NO	3.888e4	8.3524	8.3524	0.0868
4	Total Tetra-Furans	21.97	1.661e4	1.973e4	1.524e3	1.839e3	0.83	NO	3.363e3	0.72245	0.72245	0.0868
5	Total Tetra-Furans	22.09	3.649e4	4.922e4	3.856e3	5.224e3	0.74	NO	9.080e3	1.9505	1.9505	0.0868
6	Total Tetra-Furans	22.21	2.245e4	2.530e4	1.392e3	1.664e3	0.84	NO	3.056e3	0.65644	0.65644	0.0868
7	Total Tetra-Furans	22.46	2.010e4	3.185e4	8.813e2	1.259e3	0.70	NO	2.141e3	0.45983	0.45983	0.0868
8	Total Tetra-Furans	22.55	2.389e5	3.248e5	2.129e4	2.907e4	0.73	NO	5.035e4	10.817	10.817	0.0868
9	Total Tetra-Furans	23.01	1.312e5	1.737e5	1.135e4	1.520e4	0.75	NO	2.656e4	5.7051	5.7051	0.0868
10	Total Tetra-Furans	23.14	2.841e4	3.477e4	1.904e3	2.275e3	0.84	NO	4.179e3	0.89775	0.89775	0.0868
11	Total Tetra-Furans	23.36	5.374e4	6.841e4	4.311e3	5.801e3	0.74	NO	1.011e4	2.1723	2.1723	0.0868
12	Total Tetra-Furans	23.81	1.071e4	1.370e4	7.604e2	1.008e3	0.75	NO	1.769e3	0.37997	0.37997	0.0868
13	Total Tetra-Furans	23.91	1.890e4	2.763e4	1.619e3	2.113e3	0.77	NO	3.731e3	0.80155	0.80155	0.0868
14	Total Tetra-Furans	24.09	8.948e4	1.417e5	3.550e3	4.728e3	0.75	NO	0.000e0	0.00000	1.7783	0.0868
15	Total Tetra-Furans	24.13	2.150e5	2.954e5	2.543e4	3.432e4	0.74	NO	0.000e0	0.00000	12.834	0.0868
16	Total Tetra-Furans	24.62	6.452e5	9.218e5	4.762e4	6.430e4	0.74	NO	1.119e5	24.044	24.044	0.0868
17	Total Tetra-Furans	24.94	3.224e4	3.775e4	2.228e3	2.880e3	0.77	NO	5.108e3	1.0972	1.0972	0.0868
18	Total Tetra-Furans	25.06	2.205e4	2.866e4	1.396e3	1.790e3	0.78	NO	3.186e3	0.68436	0.68436	0.0868
19	Total Tetra-Furans	25.15	7.929e3	7.603e3	4.560e2	5.355e2	0.85	NO	9.915e2	0.21299	0.21299	0.0868
20	Total Tetra-Furans	25.34	1.521e4	1.958e4	9.957e2	1.306e3	0.76	NO	2.301e3	0.49440	0.49440	0.0868
21	Total Tetra-Furans	25.52	2.016e5	2.628e5	1.292e4	1.740e4	0.74	NO	3.032e4	6.5135	6.5135	0.0868
22	2,3,7,8-TCDF	25.64	8.846e5	1.204e6	5.679e4	7.611e4	0.75	NO	1.329e5	28.551	28.551	0.0868
23	Total Tetra-Furans	25.89	2.195e4	2.281e4	8.773e2	1.209e3	0.73	NO	2.086e3	0.44822	0.44822	0.0868
24	Total Tetra-Furans	25.95	6.539e4	7.304e4	3.990e3	5.020e3	0.79	NO	9.011e3	1.9356	1.9356	0.0868
25	Total Tetra-Furans	26.22	1.947e4	2.330e4	1.017e3	1.347e3	0.76	NO	2.364e3	0.50781	0.50781	0.0868
26	Total Tetra-Furans	26.97	6.147e3	7.106e3	3.554e2	4.067e2	0.87	NO	7.621e2	0.16371	0.16371	0.0868
27	Total Tetra-Furans	27.15	3.834e4	4.467e4	2.311e3	3.077e3	0.75	NO	5.388e3	1.1574	1.1574	0.0868
28	Total Tetra-Furans	27.35	1.726e4	1.221e4	1.050e3	6.180e2	1.70	YES	0.000e0	0.00000	0.23500	0.0868
29	Total Tetra-Furans	27.55	7.030e4	9.892e4	4.352e3	5.750e3	0.76	NO	1.010e4	2.1699	2.1699	0.0868

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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	1.650e6	1.005e6	9.523e4	5.831e4	1.63	NO	1.535e5	36.351	36.351	0.0283

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.61	6.942e4	5.540e4	4.490e3	3.327e3	1.35	NO	7.817e3	1.8506	1.8506	0.229
2	Total Penta-Furans	28.77	1.341e6	9.051e5	9.258e4	5.862e4	1.58	NO	1.512e5	35.797	35.797	0.229
3	Total Penta-Furans	29.22	2.038e4	1.178e4	1.339e3	7.970e2	1.68	NO	2.136e3	0.50578	0.50578	0.229
4	Total Penta-Furans	29.41	4.971e5	2.870e5	2.515e4	1.577e4	1.59	NO	4.092e4	9.6877	9.6877	0.229
5	Total Penta-Furans	29.56	2.229e5	1.333e5	1.190e4	7.444e3	1.60	NO	1.934e4	4.5788	4.5788	0.229
6	1,2,3,7,8-PeCDF	29.77	2.153e6	1.336e6	1.052e5	6.709e4	1.57	NO	1.722e5	40.225	40.225	0.224
7	Total Penta-Furans	30.02	6.604e5	4.322e5	3.332e4	2.137e4	1.56	NO	5.469e4	12.948	12.948	0.229
8	Total Penta-Furans	30.64	2.921e4	1.923e4	1.339e3	7.967e2	1.68	NO	2.135e3	0.50555	0.50555	0.229
9	2,3,4,7,8-PeCDF	30.84	1.407e6	9.081e5	6.893e4	4.481e4	1.54	NO	1.137e5	24.554	24.554	0.211
10	Total Penta-Furans	31.74	6.053e4	3.313e4	2.818e3	1.654e3	1.70	NO	4.472e3	1.0588	1.0588	0.229

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.16	4.683e5	4.002e5	2.164e4	1.744e4	1.24	NO	3.909e4	13.644	13.644	0.218
2	Total Hexa-Furans	32.33	1.393e6	1.149e6	6.589e4	5.393e4	1.22	NO	1.198e5	41.824	41.824	0.218
3	Total Hexa-Furans	32.74	2.215e4	1.665e4	1.103e3	8.572e2	1.29	NO	1.960e3	0.68425	0.68425	0.218
4	Total Hexa-Furans	32.96	1.843e6	1.478e6	8.747e4	7.115e4	1.23	NO	1.586e5	55.370	55.370	0.218
5	Total Hexa-Furans	33.30	2.956e4	3.246e4	1.605e3	1.433e3	1.12	NO	3.038e3	1.0605	1.0605	0.218
6	1,2,3,4,7,8-HxCDF	33.44	2.241e6	1.788e6	1.148e5	9.263e4	1.24	NO	2.074e5	71.463	71.463	0.209
7	1,2,3,6,7,8-HxCDF	33.56	6.304e5	5.169e5	3.207e4	2.473e4	1.30	NO	5.680e4	18.912	18.912	0.195
8	Total Hexa-Furans	33.88	1.240e4	1.124e4	7.452e2	6.883e2	1.08	NO	1.434e3	0.50039	0.50039	0.218
9	2,3,4,6,7,8-HxCDF	34.24	2.010e5	1.536e5	1.171e4	9.500e3	1.23	NO	2.121e4	7.5237	7.5237	0.217
10	1,2,3,7,8,9-HxCDF	35.23	9.989e4	7.852e4	1.780e3	1.502e3	1.18	NO	3.282e3	1.2572	1.2572	0.265
11	Total Hexa-Furans	35.25	1.852e5	1.460e5	9.388e3	7.610e3	1.23	NO	1.700e4	5.9334	5.9334	0.218

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Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.80	1.749e6	1.729e6	1.070e5	1.060e5	1.01	NO	2.130e5	99.375	99.375	0.410
2	Total Hepta-Furans	37.27	1.499e4	1.582e4	1.619e3	1.612e3	1.00	NO	3.230e3	1.6336	1.6336	0.390
3	Total Hepta-Furans	37.52	2.406e6	2.365e6	1.470e5	1.465e5	1.00	NO	2.935e5	148.44	148.44	0.390
4	1,2,3,4,7,8,9-HpCDF	38.82	2.909e5	2.908e5	1.409e4	1.387e4	1.02	NO	2.796e4	13.774	13.774	0.326

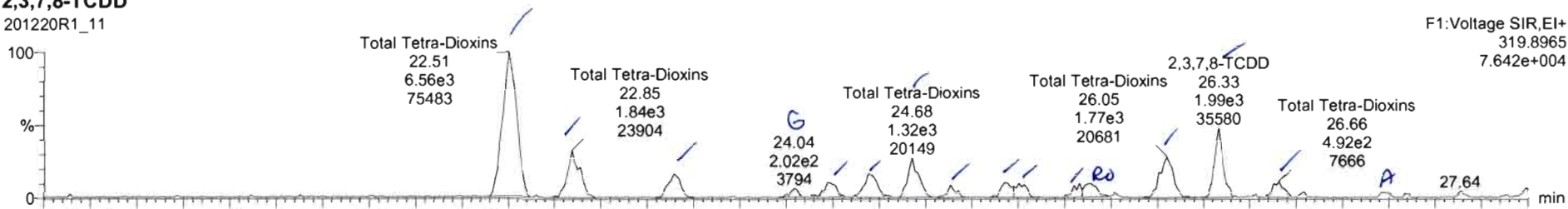
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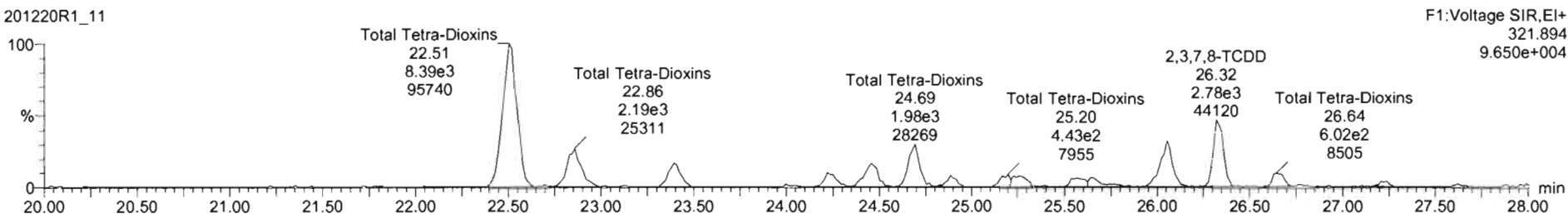
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2,3,7,8-TCDD

201220R1_11



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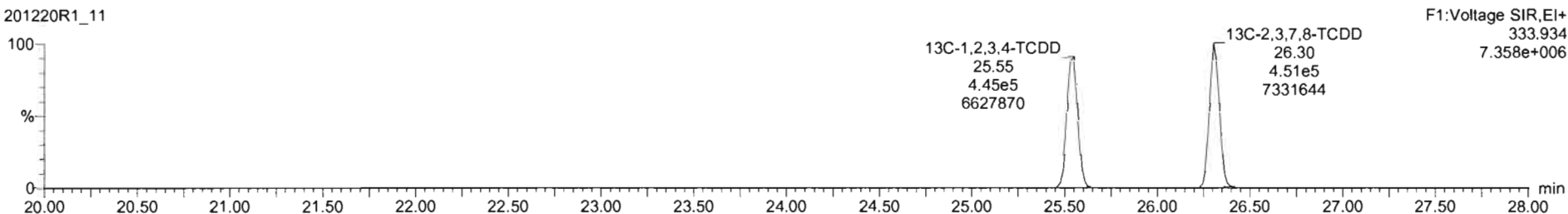


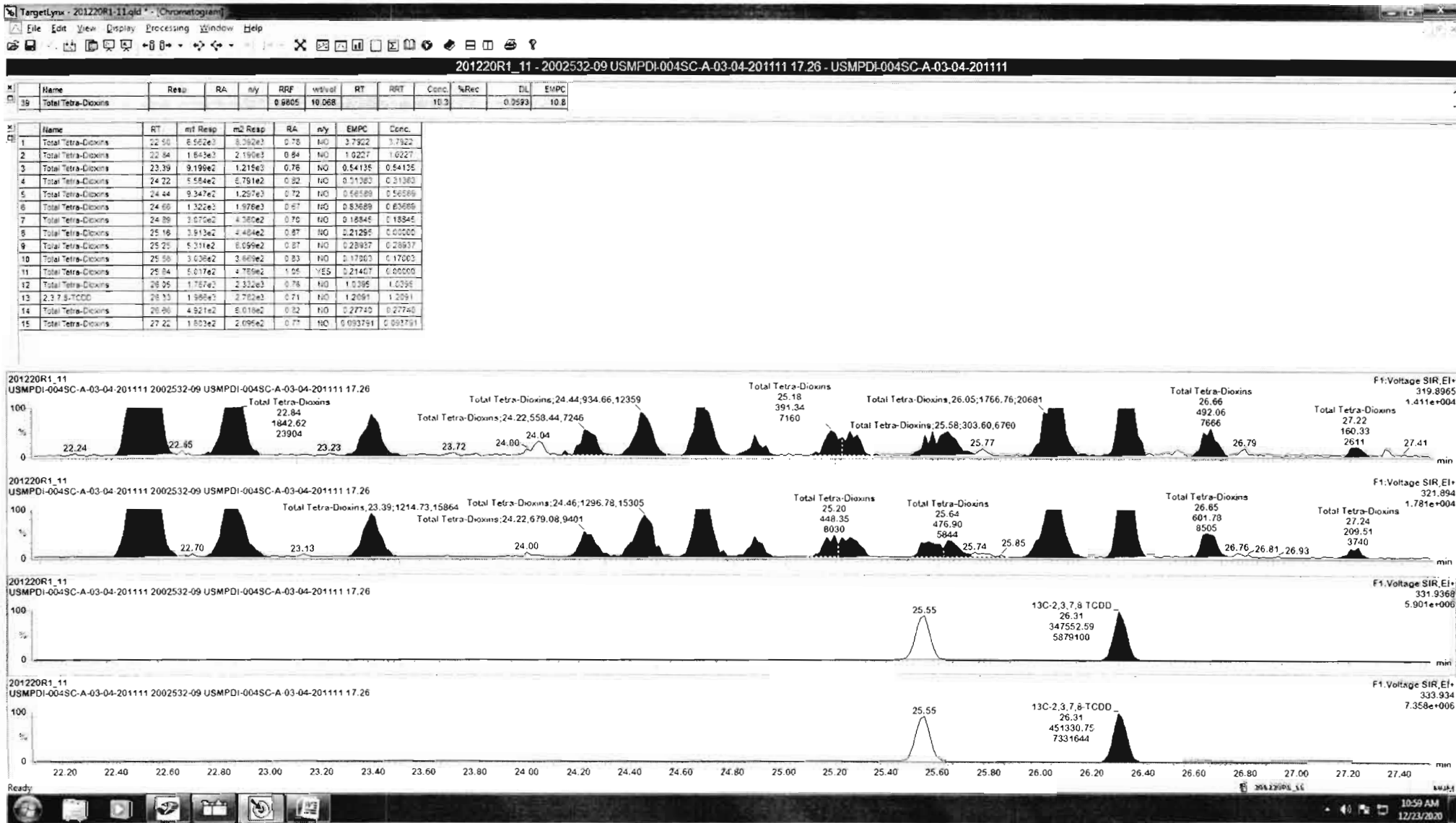
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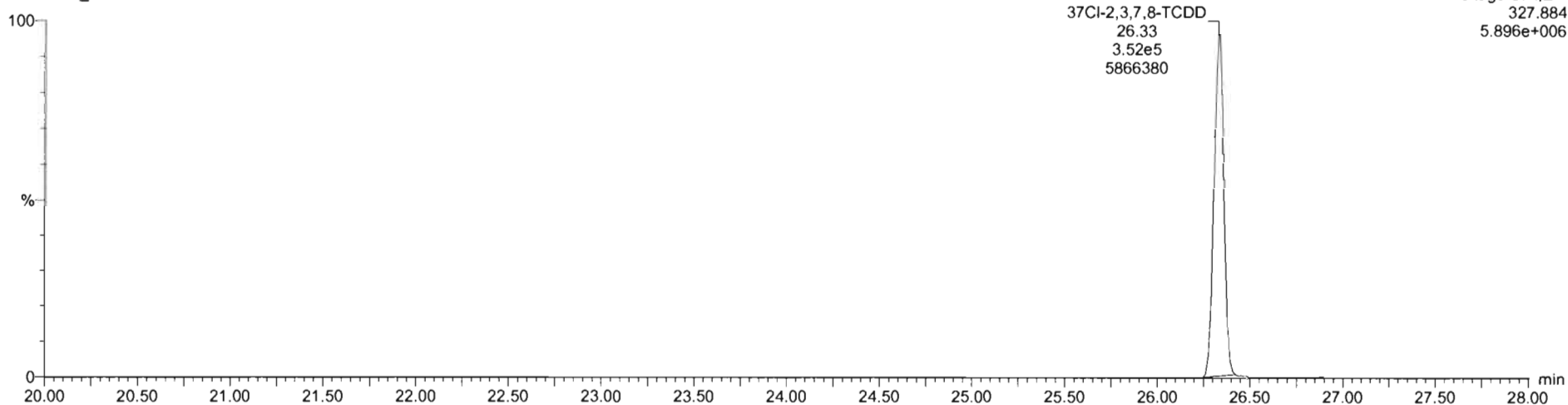
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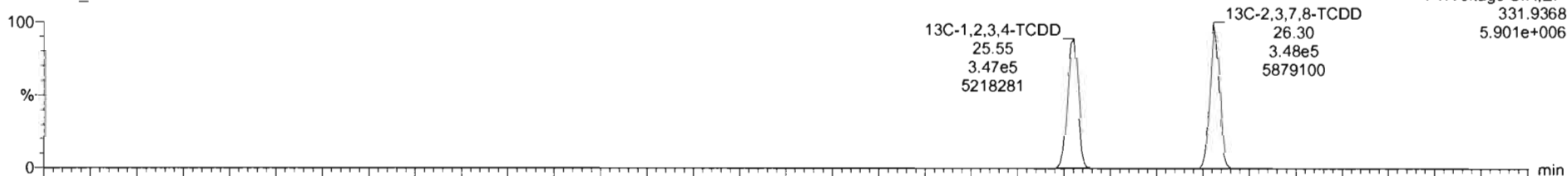
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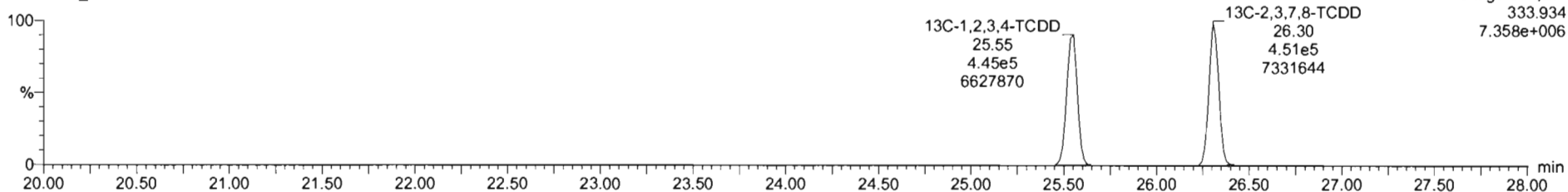


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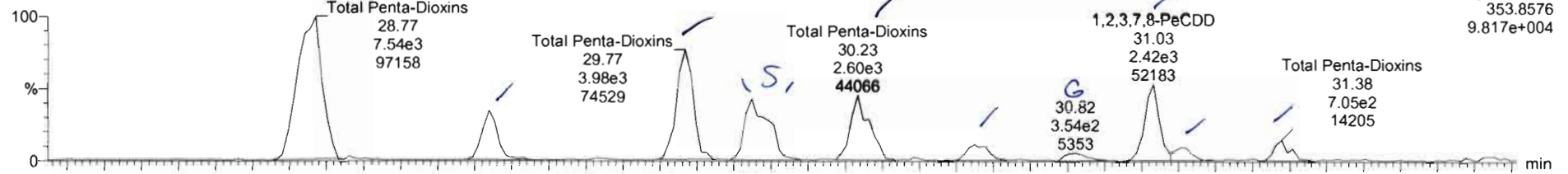
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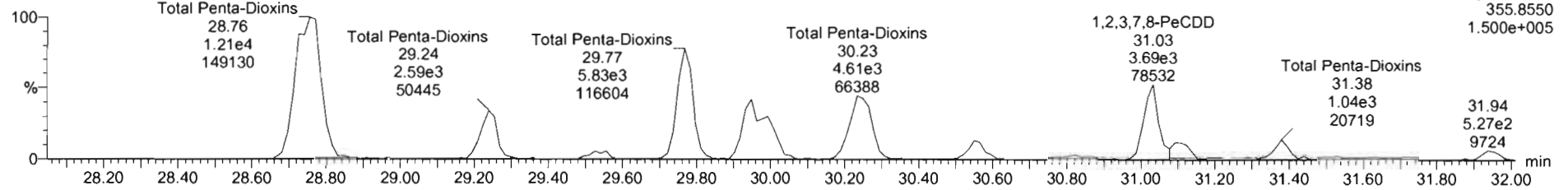
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1,2,3,7,8-PeCDD

201220R1_11

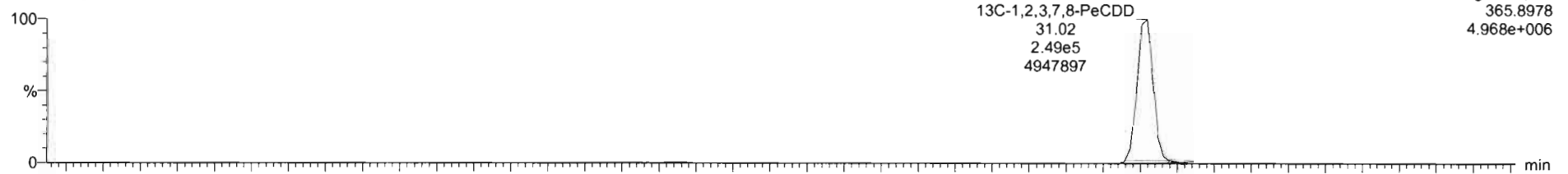


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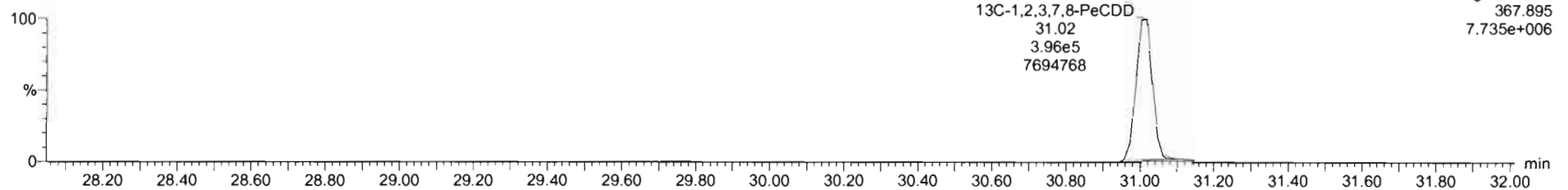


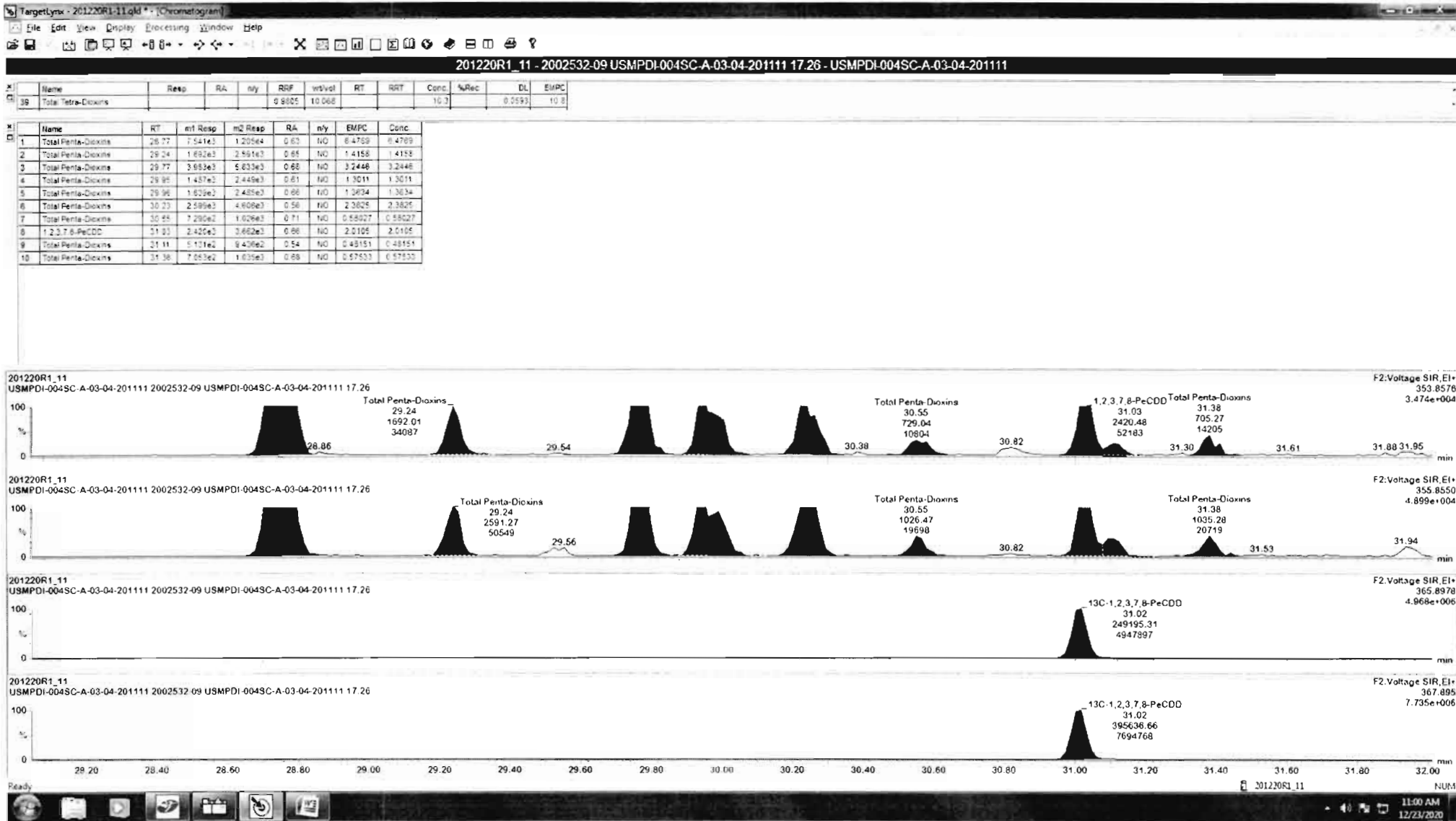
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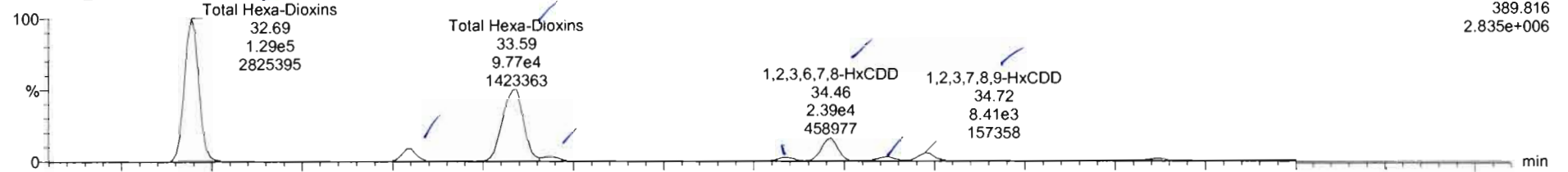
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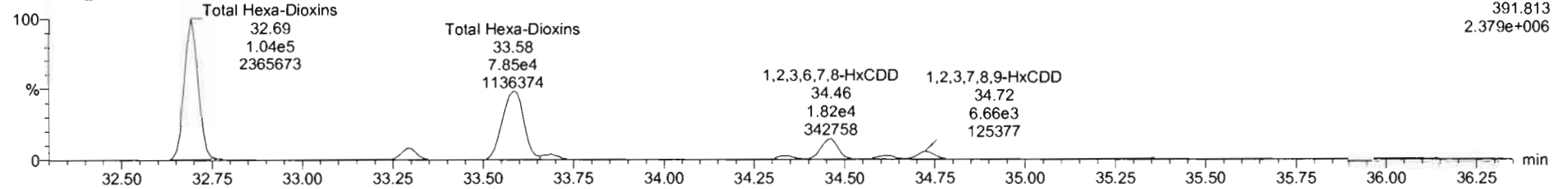
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1,2,3,4,7,8-HxCDD

201220R1_11

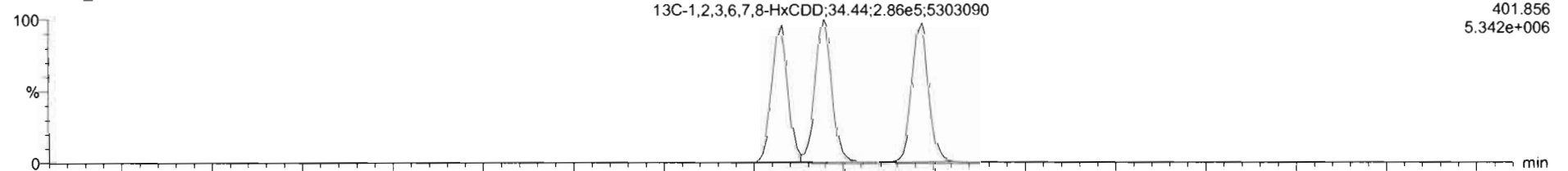


201220R1_11

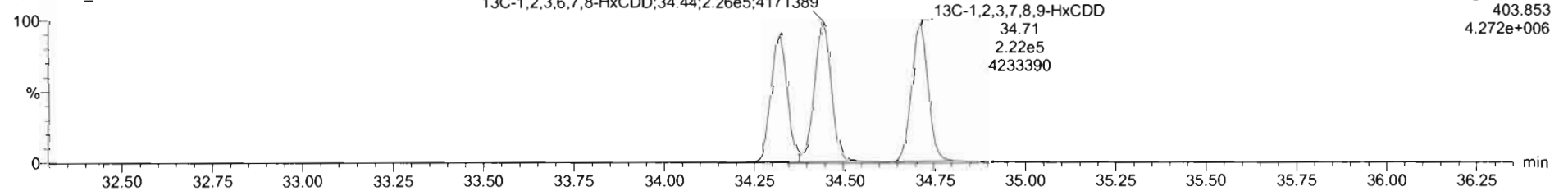


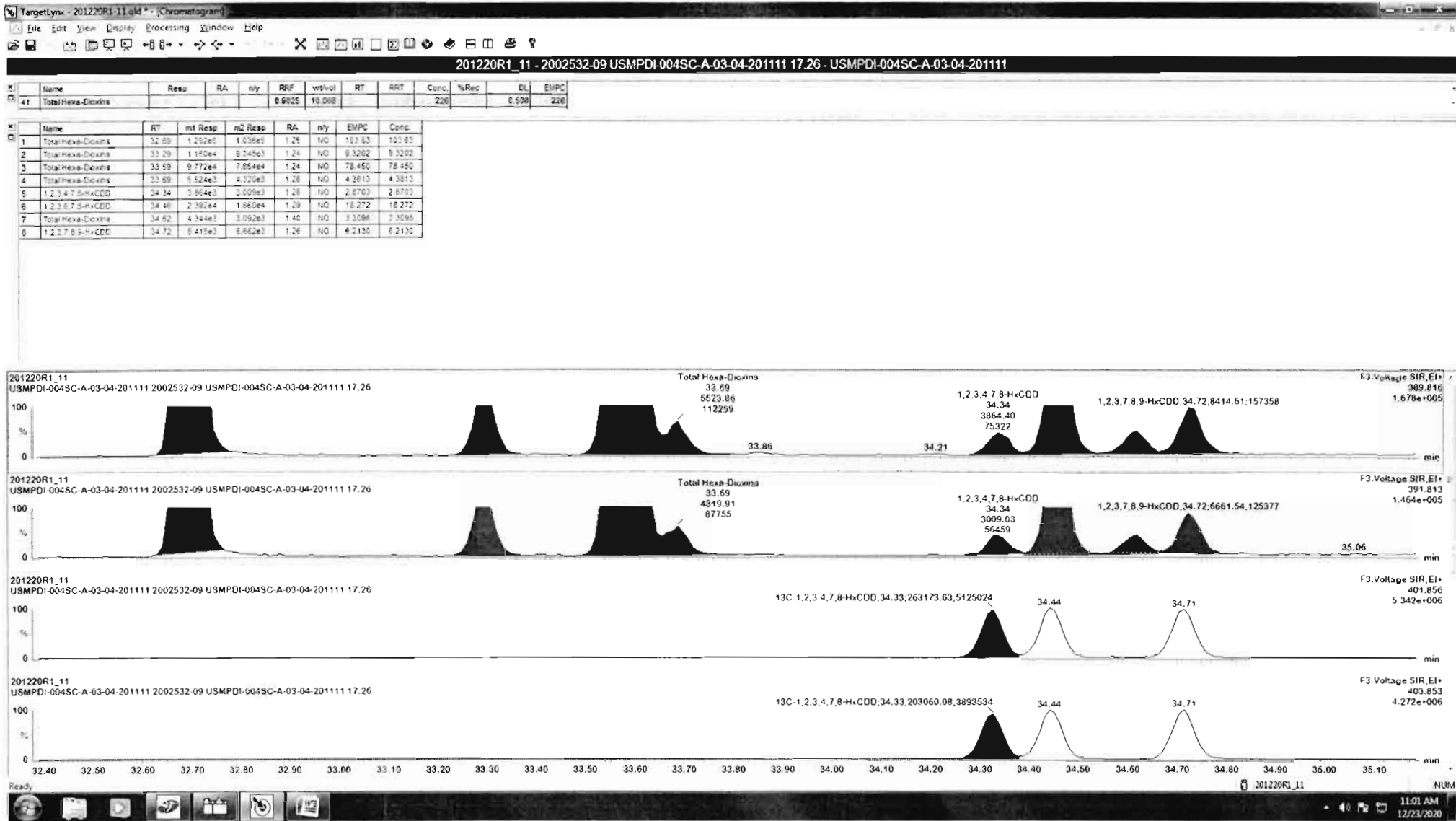
13C-1,2,3,4,7,8-HxCDD

201220R1_11



201220R1_11





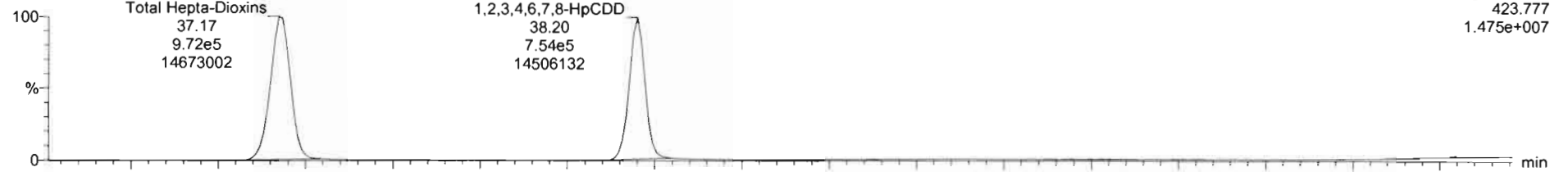
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Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

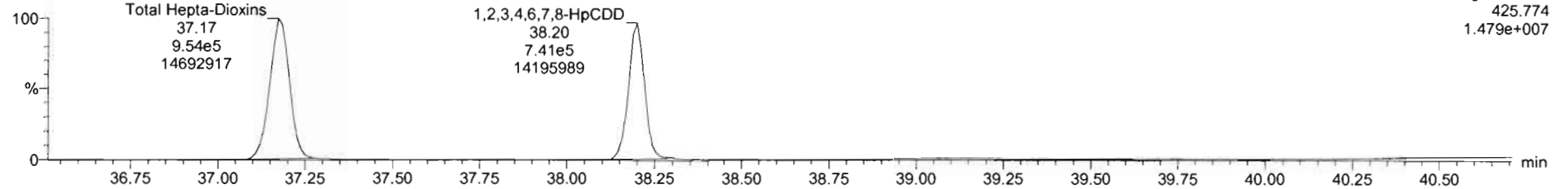
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1,2,3,4,6,7,8-HpCDD

201220R1_11

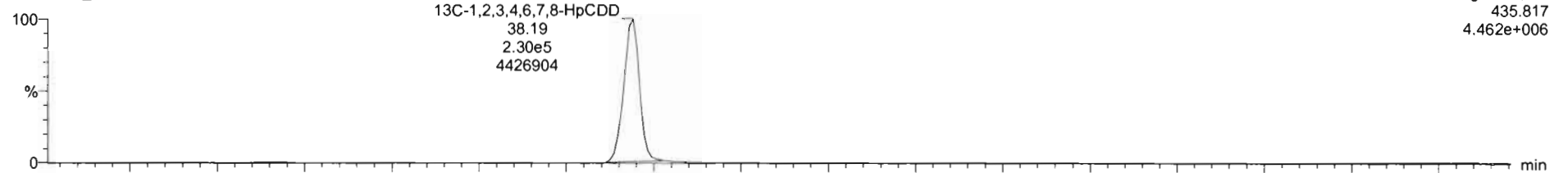


201220R1_11

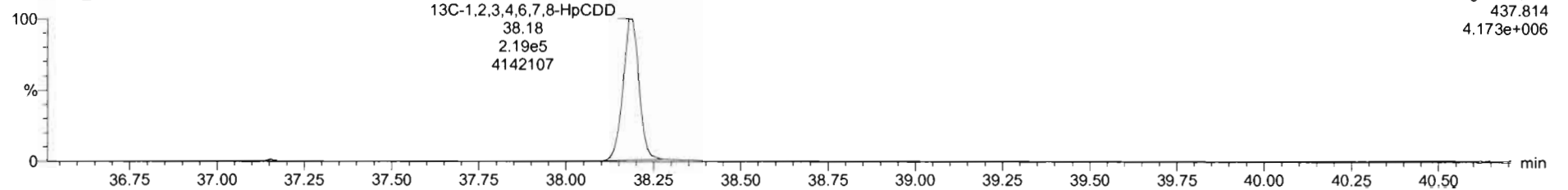


13C-1,2,3,4,6,7,8-HpCDD

201220R1_11



201220R1_11



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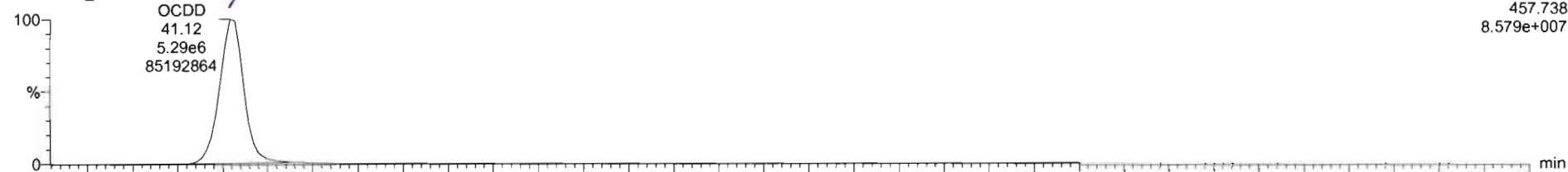
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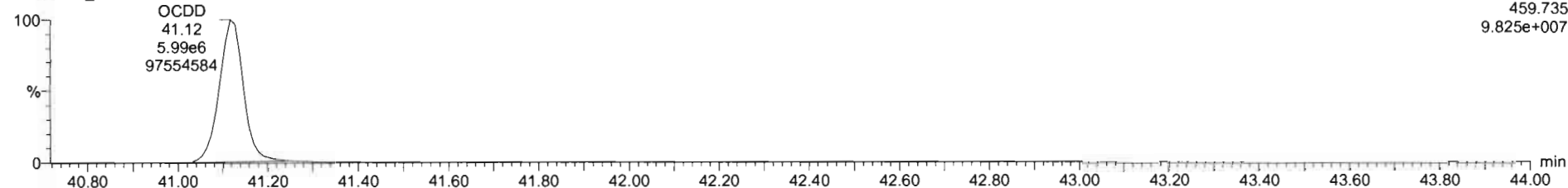
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OCDD

201220R1_11

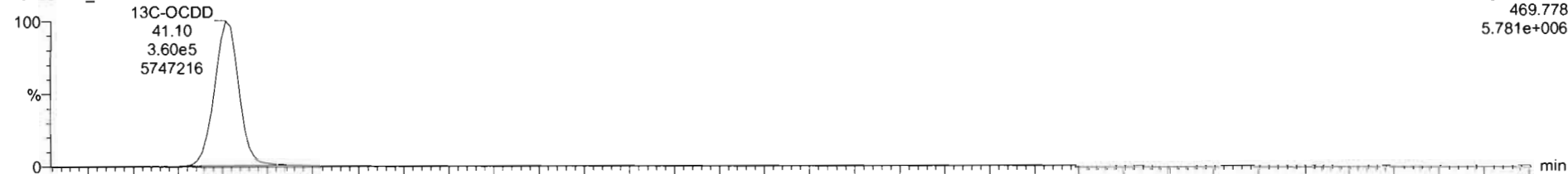


201220R1_11

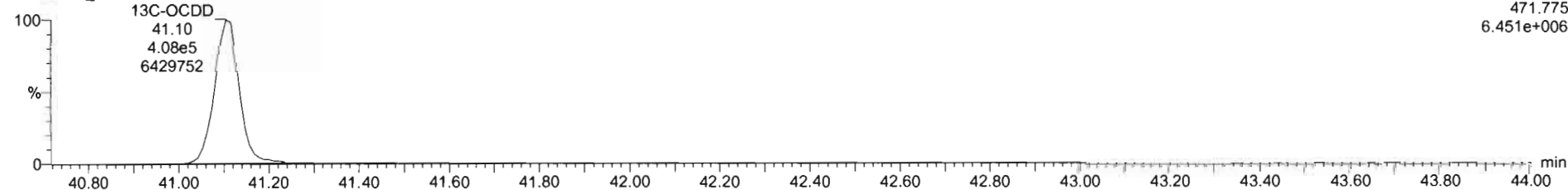


13C-OCDD

201220R1_11



201220R1_11



Dataset: Untitled

Last Altered: Monday, December 21, 2020 06:50:00 Pacific Standard Time

Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

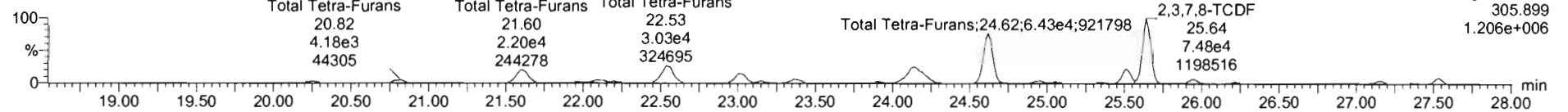
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2,3,7,8-TCDF

201220R1_11

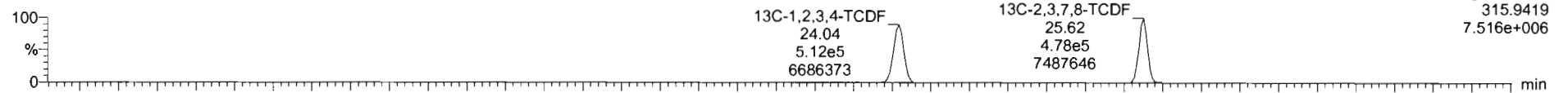


201220R1_11

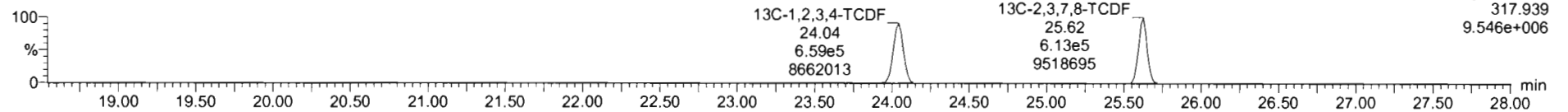


13C-2,3,7,8-TCDF

201220R1_11

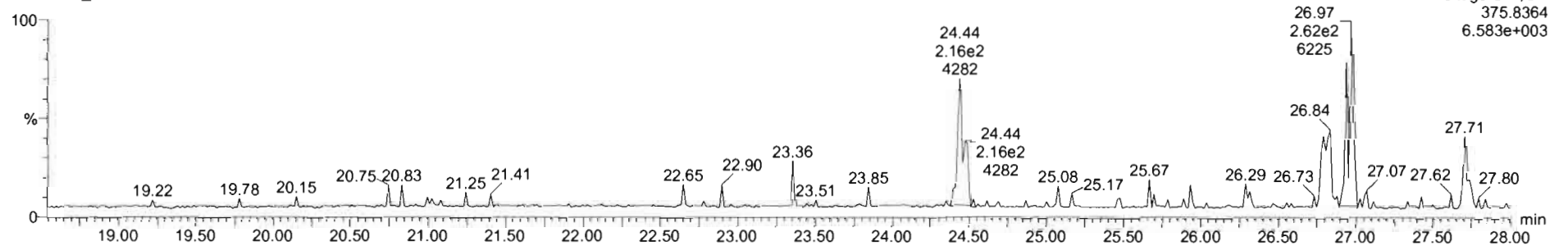


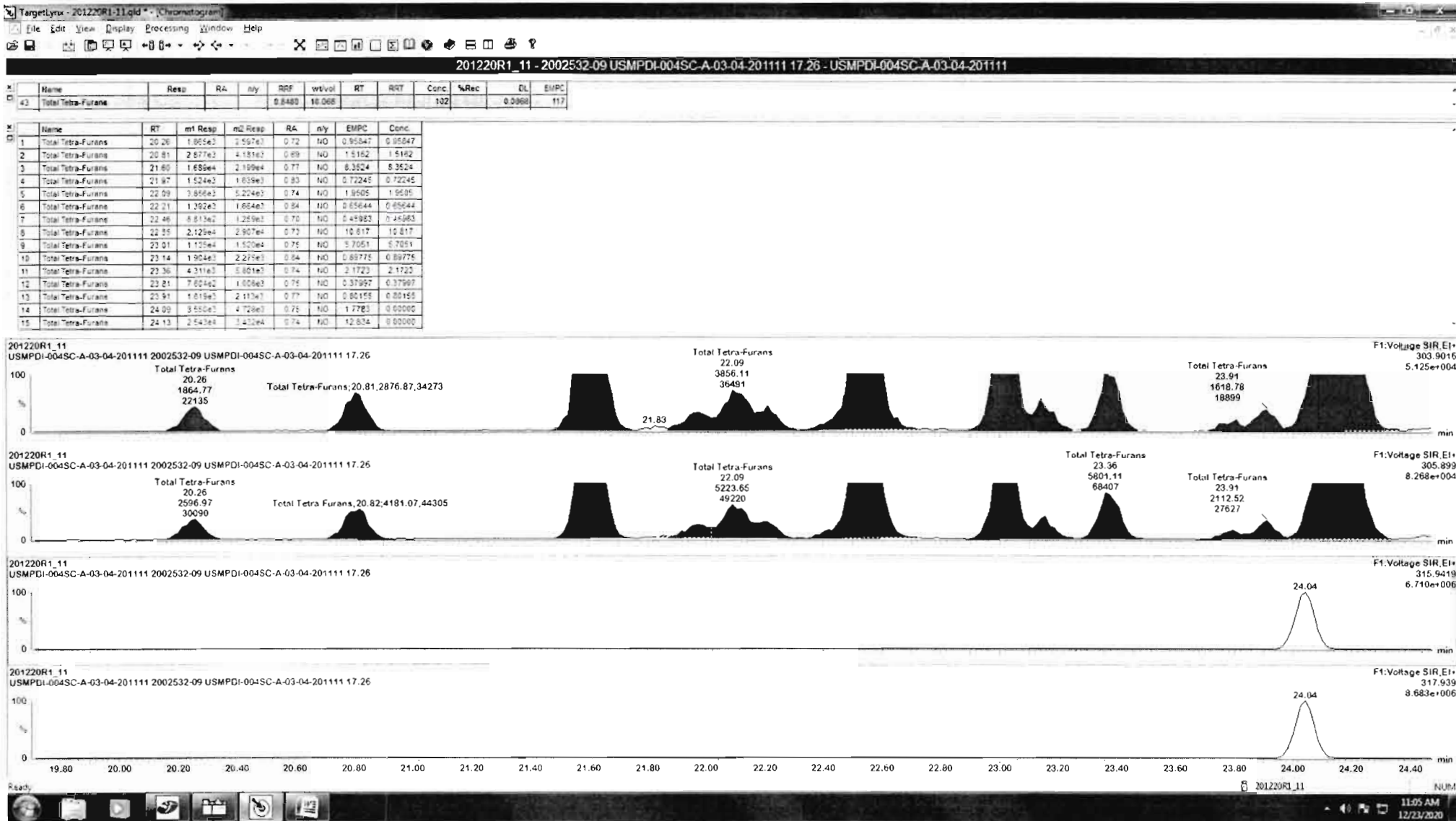
201220R1_11

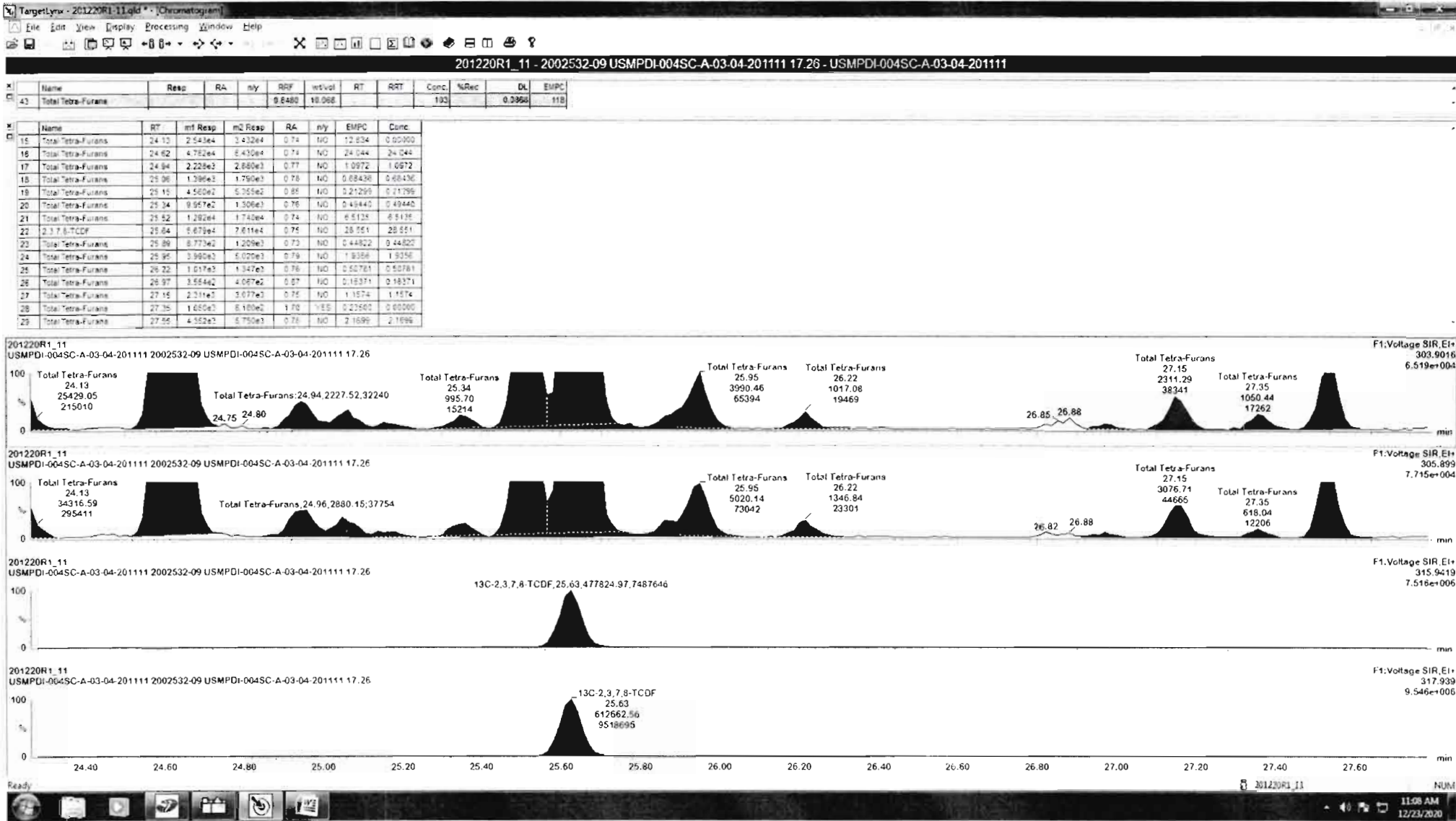


DPE1

201220R1_11







Dataset: Untitled

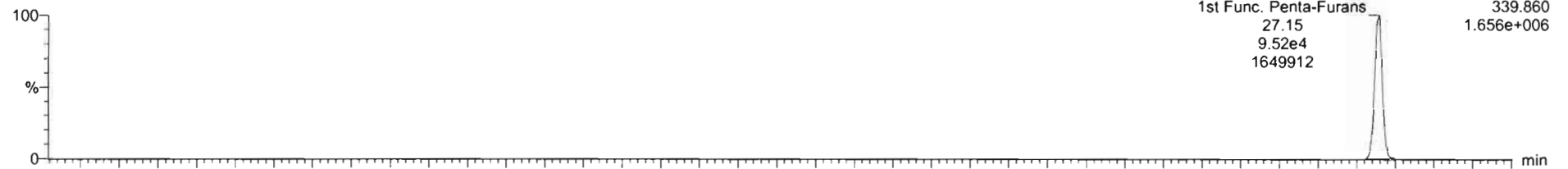
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Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

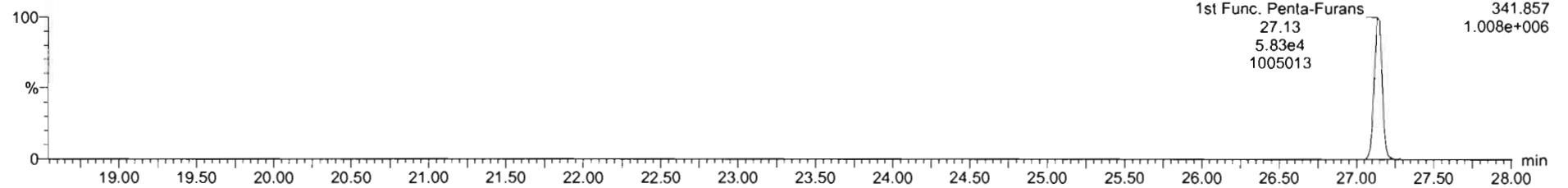
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1st Func. Penta-Furans

201220R1_11

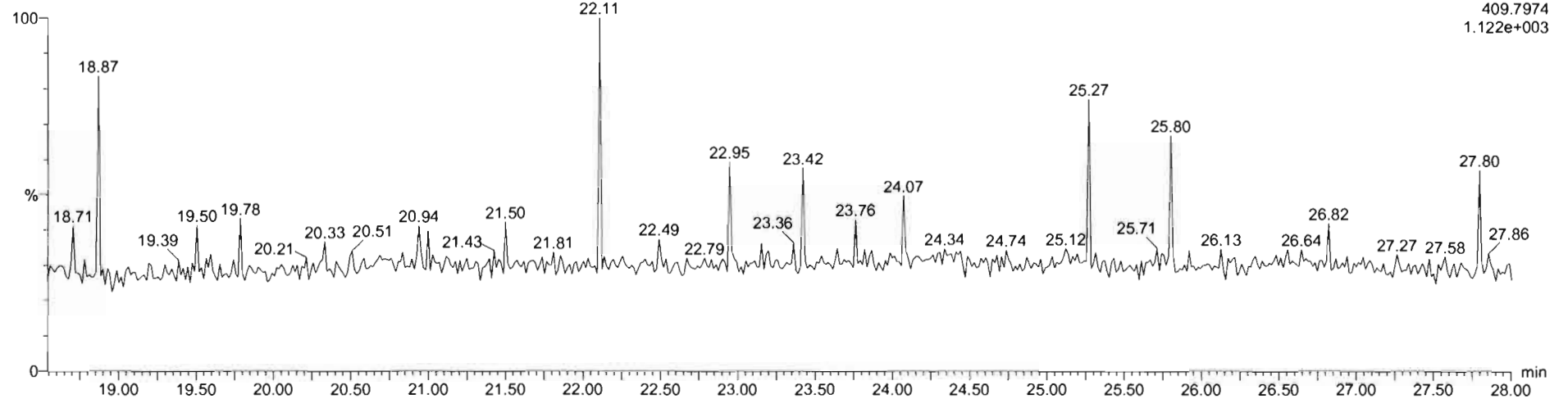


201220R1_11



DPE6

201220R1_11



Dataset: Untitled

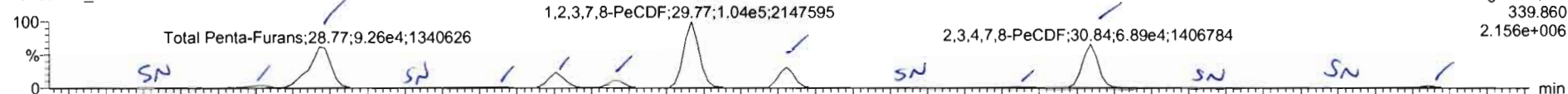
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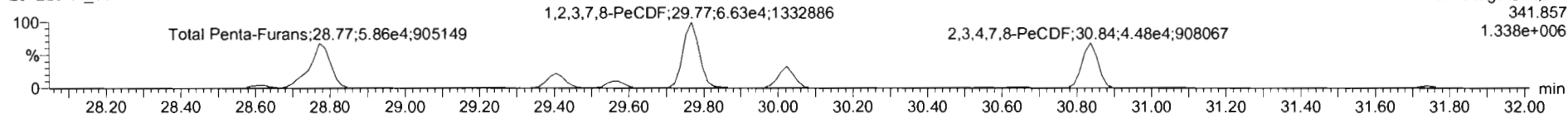
1,2,3,7,8-PeCDF

201220R1_11



F2:Voltage SIR,EI+
339.860
2.156e+006

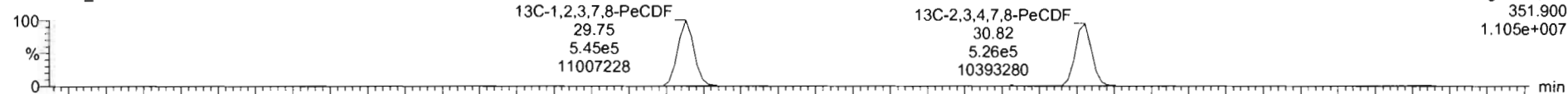
201220R1_11



F2:Voltage SIR,EI+
341.857
1.338e+006

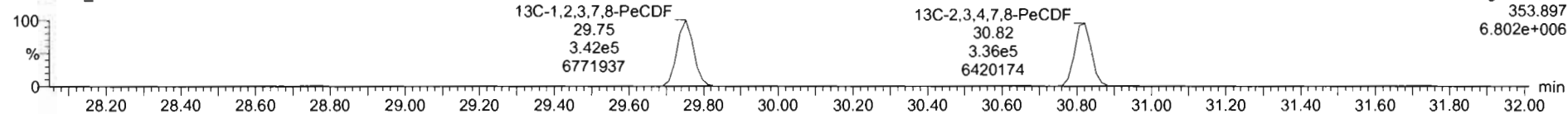
13C-1,2,3,7,8-PeCDF

201220R1_11



F2:Voltage SIR,EI+
351.900
1.105e+007

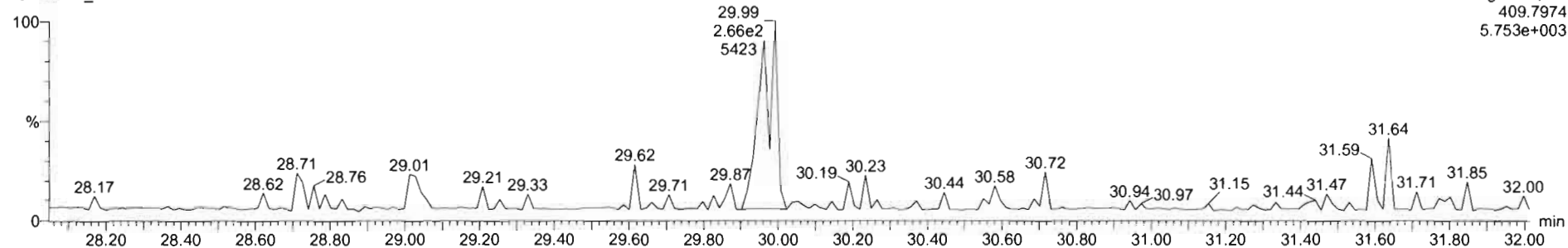
201220R1_11



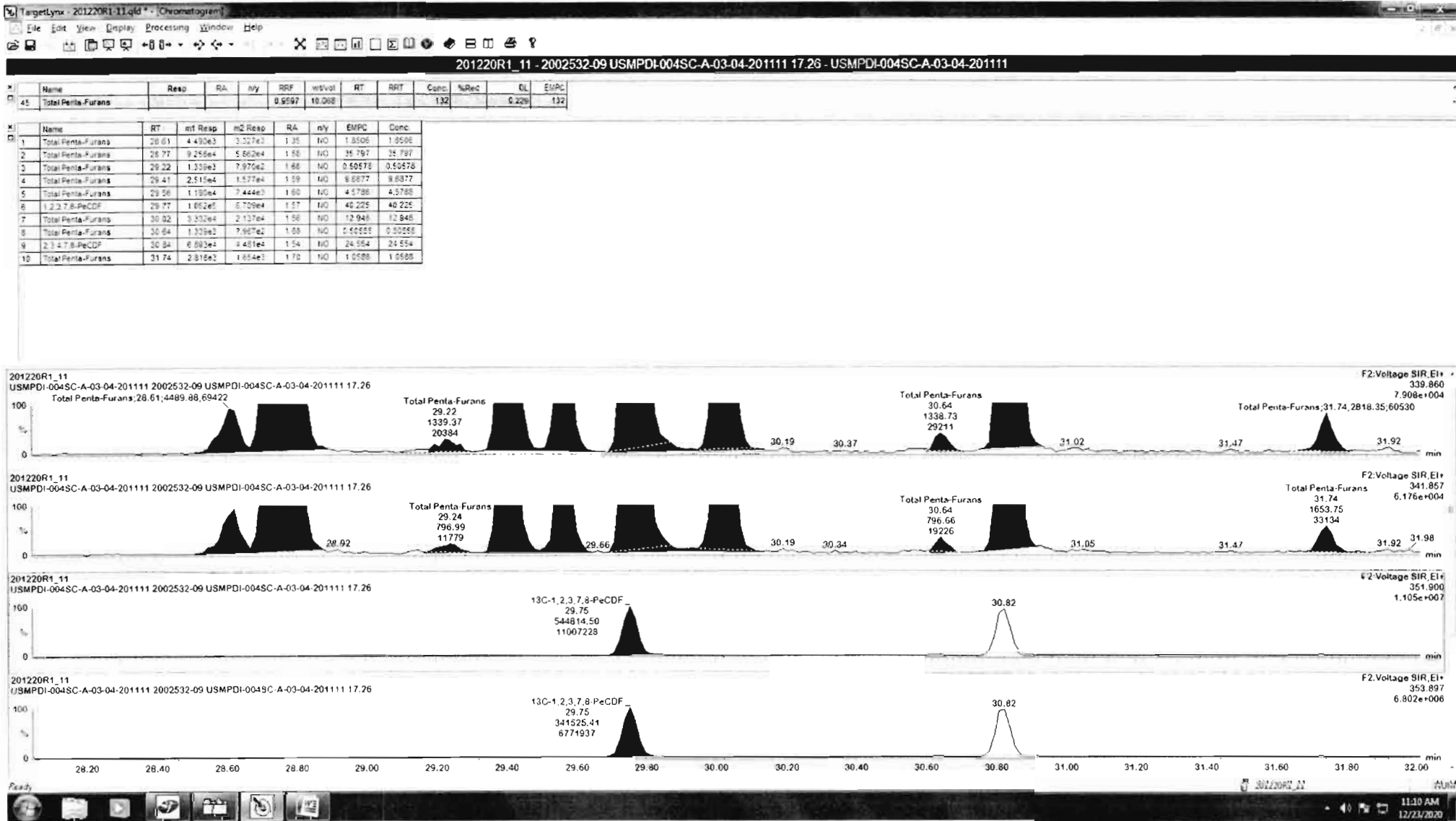
F2:Voltage SIR,EI+
353.897
6.802e+006

DPE2

201220R1_11



F2:Voltage SIR,EI+
409.7974
5.753e+003

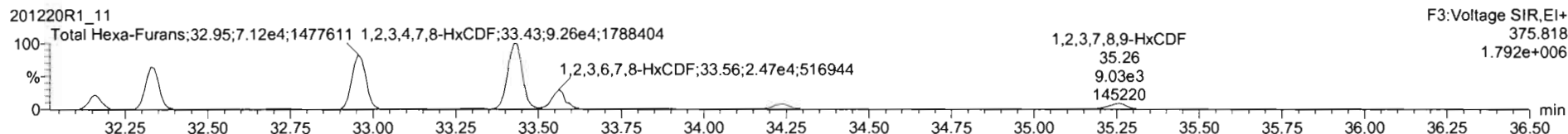
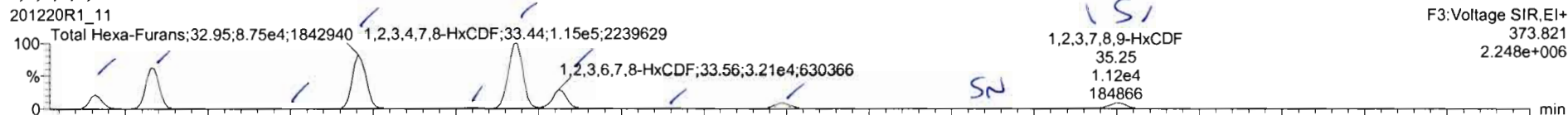


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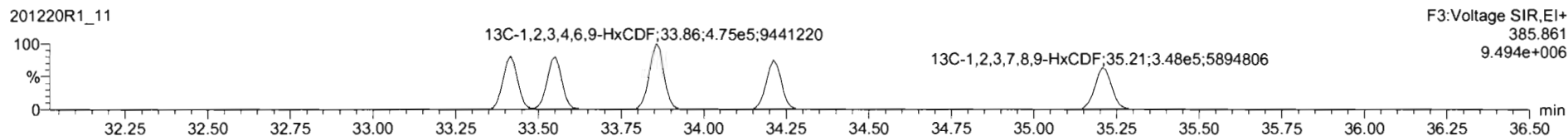
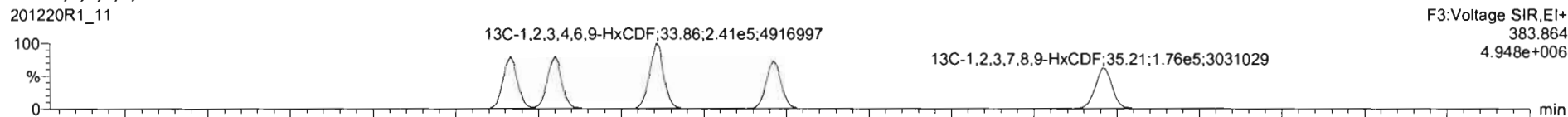
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Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

Name: 201220R1_11, Date: 20-Dec-2020, Time: 15:54:19, ID: 2002532-09 USMPDI-004SC-A-03-04-201111 17.26, Description: USMPDI-004SC-A-03-04-201111

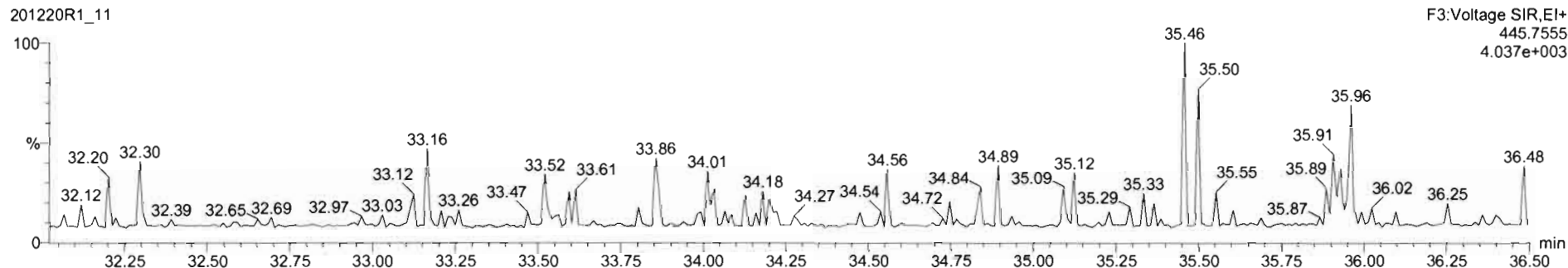
1,2,3,4,7,8-HxCDF

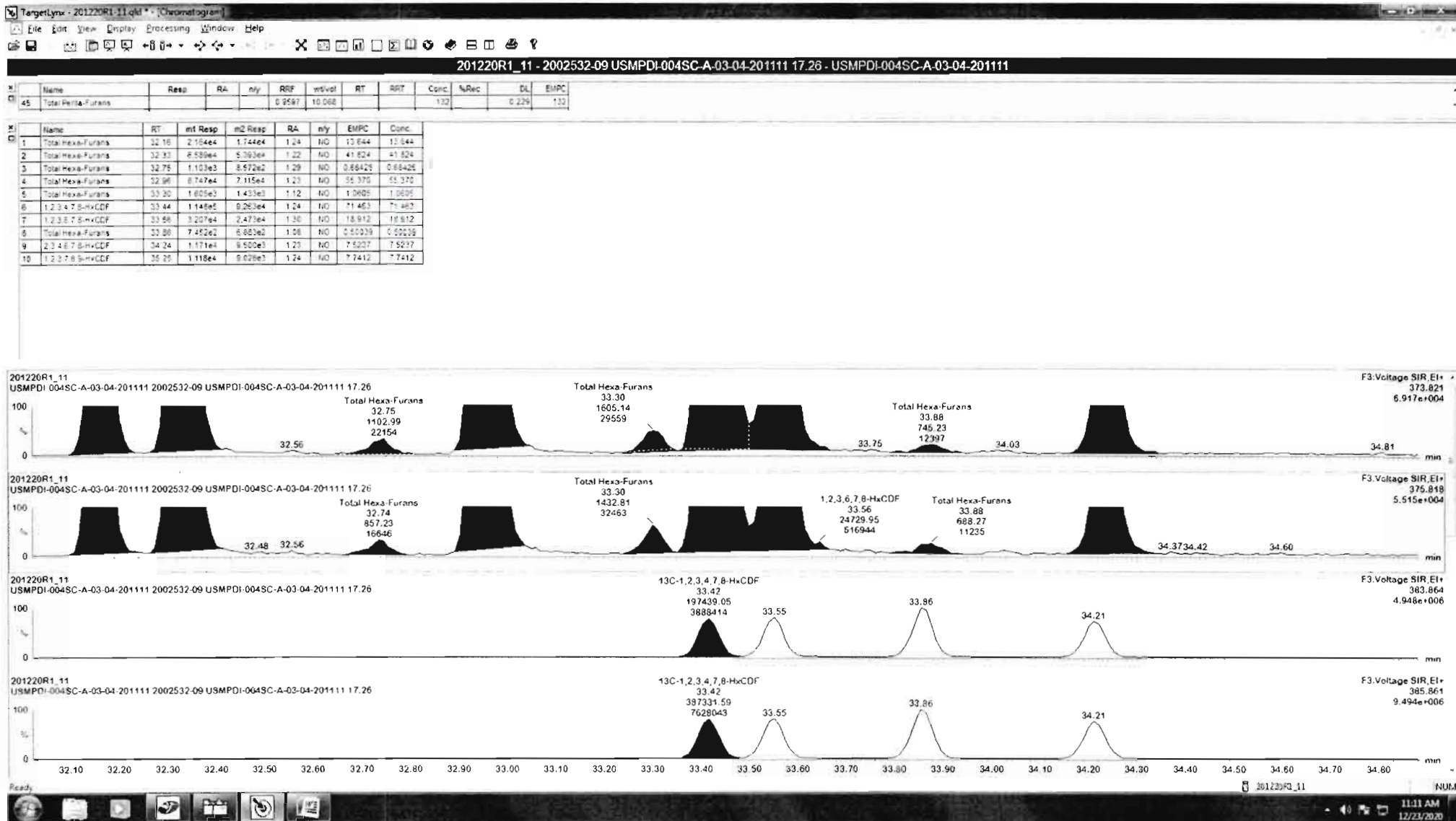


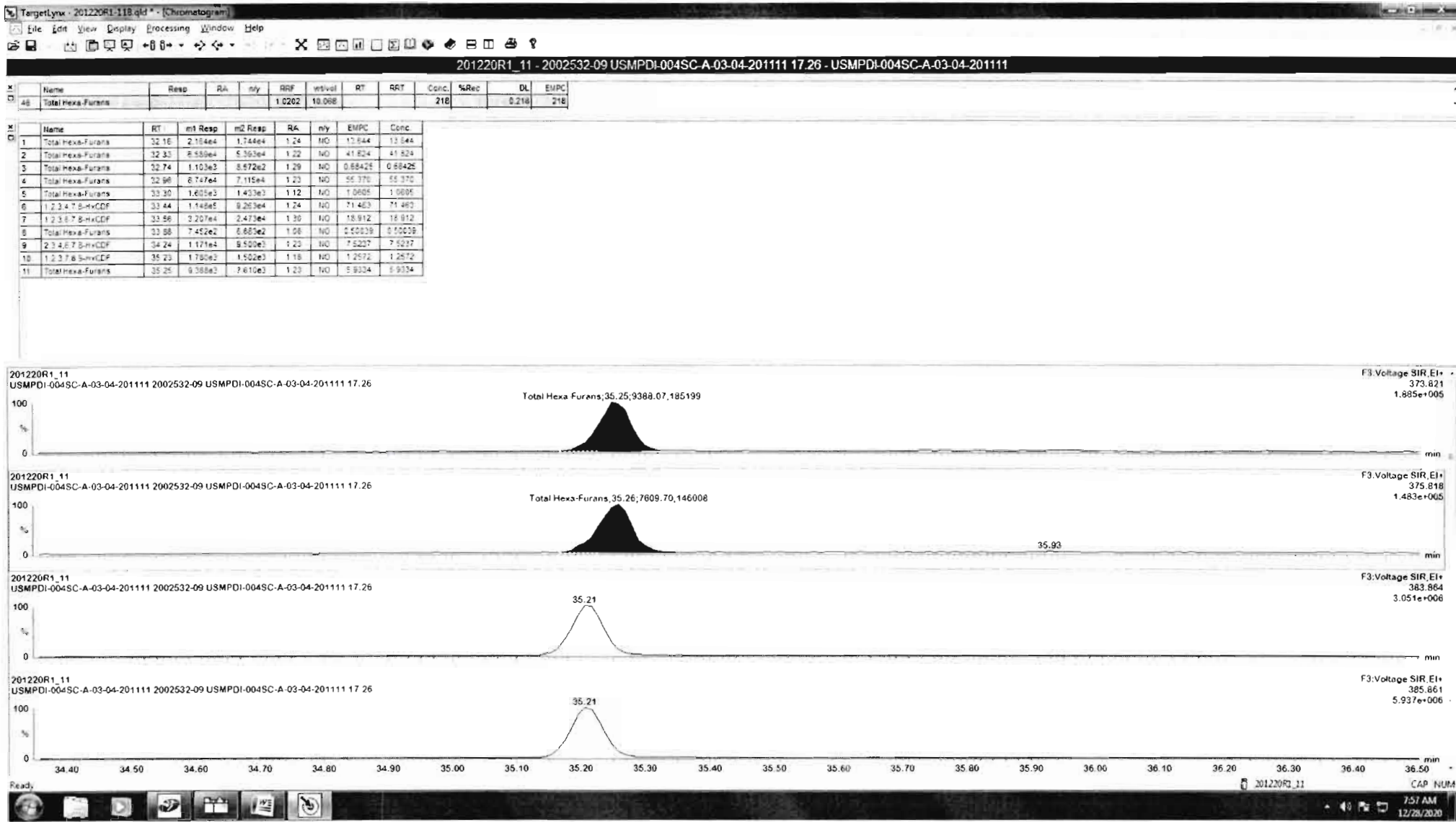
13C-1,2,3,4,7,8-HxCDF



DPE3







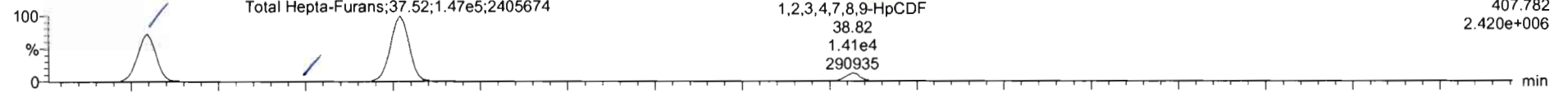
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Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

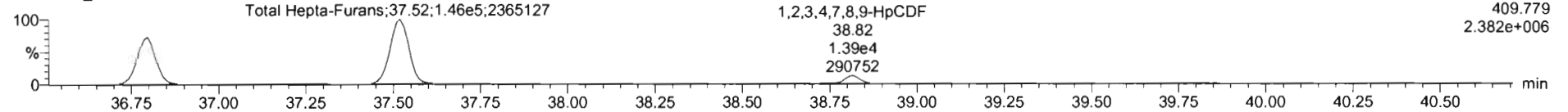
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1,2,3,4,6,7,8-HpCDF

201220R1_11

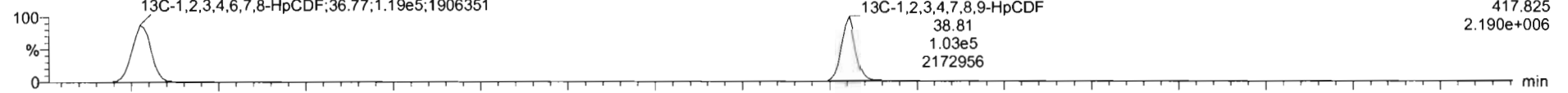


201220R1_11

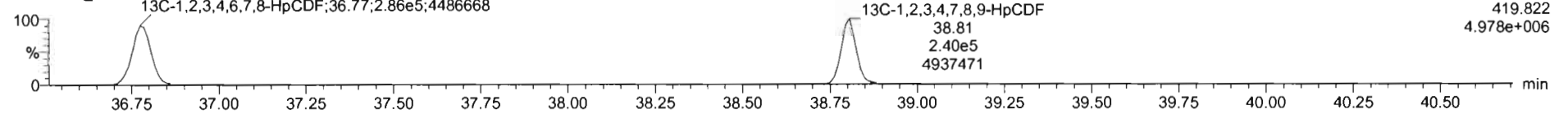


13C-1,2,3,4,6,7,8-HpCDF

201220R1_11

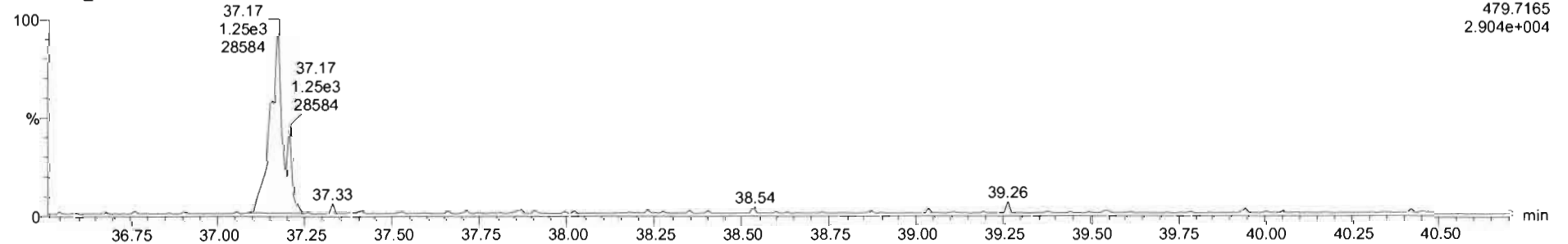


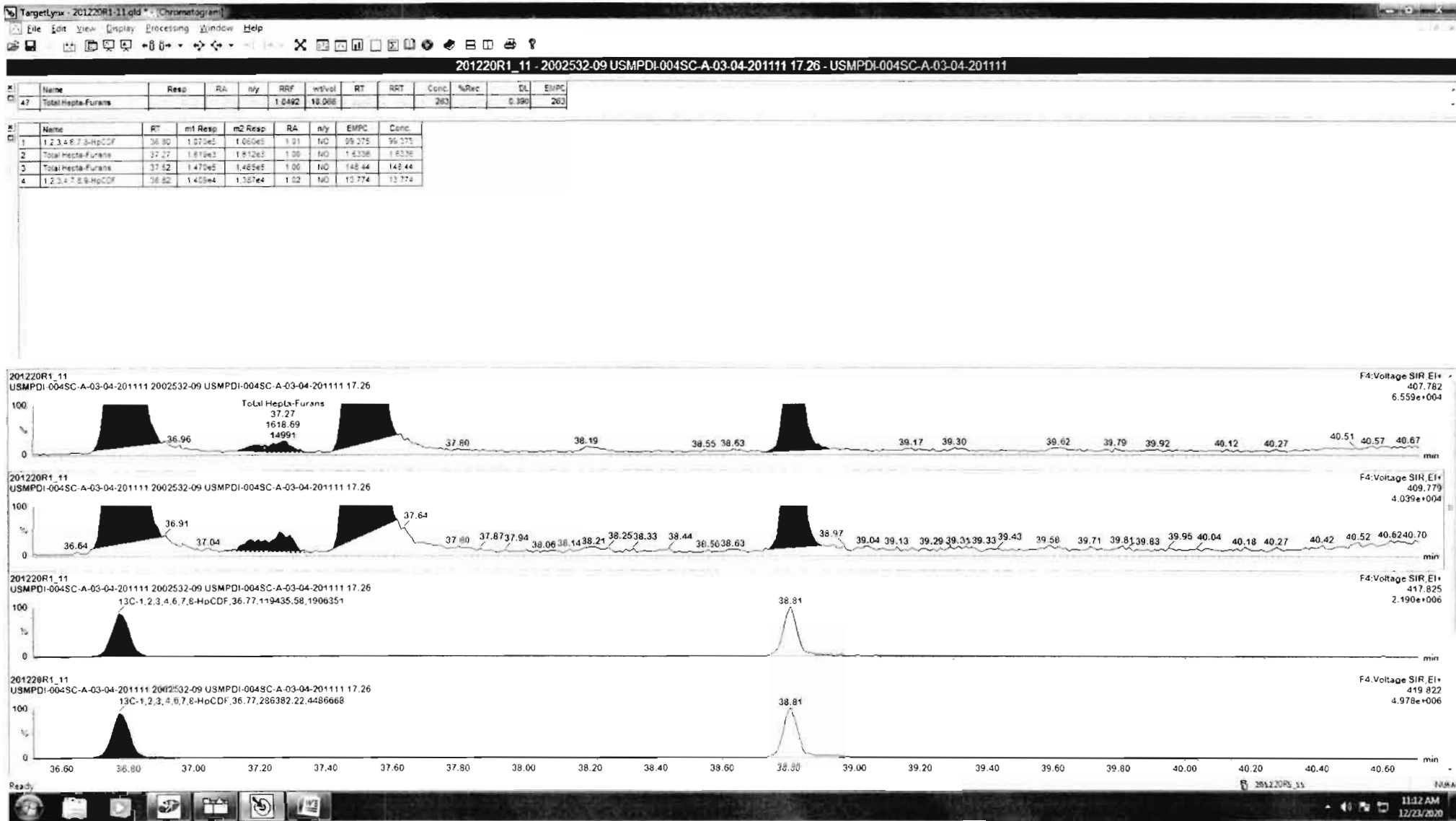
201220R1_11



DPE4

201220R1_11

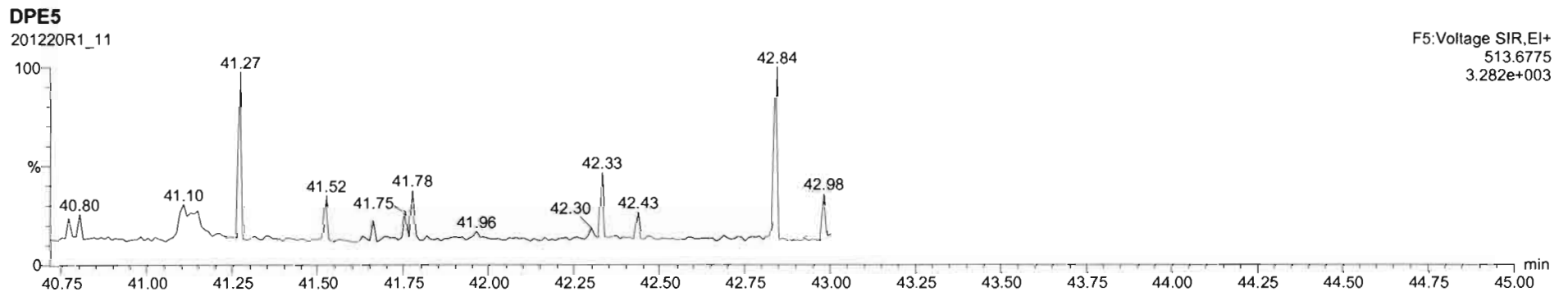
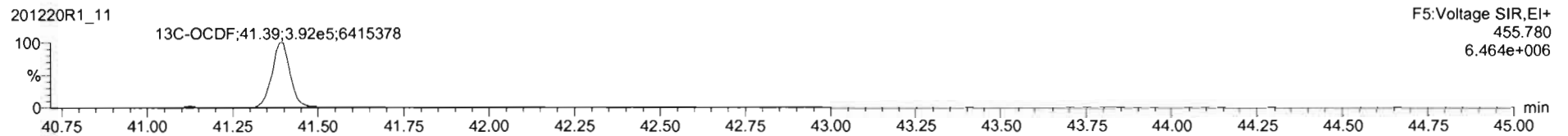
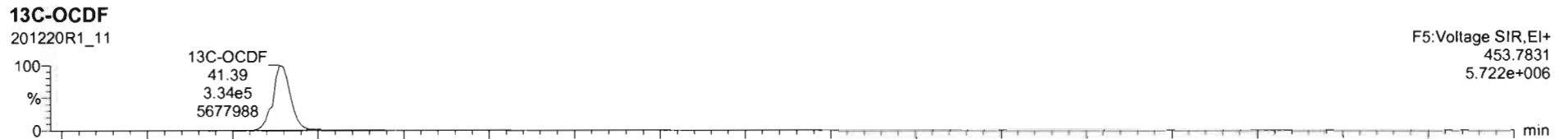
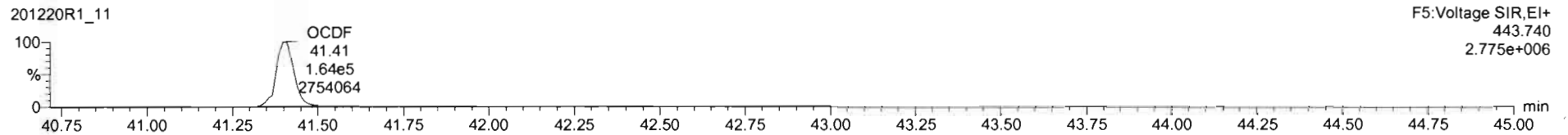
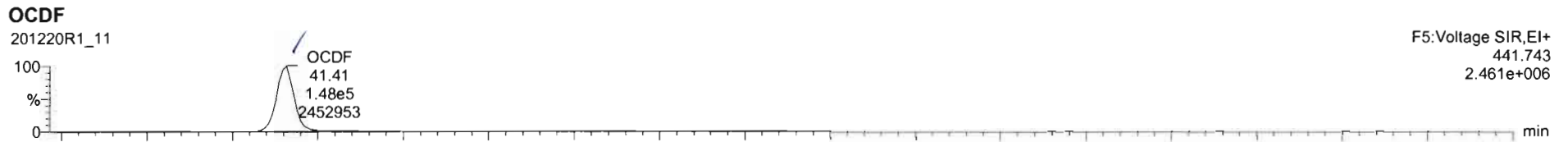




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Last Altered: Monday, December 21, 2020 06:50:00 Pacific Standard Time
Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

Name: 201220R1_11, Date: 20-Dec-2020, Time: 15:54:19, ID: 2002532-09 USMPDI-004SC-A-03-04-201111 17.26, Description: USMPDI-004SC-A-03-04-201111



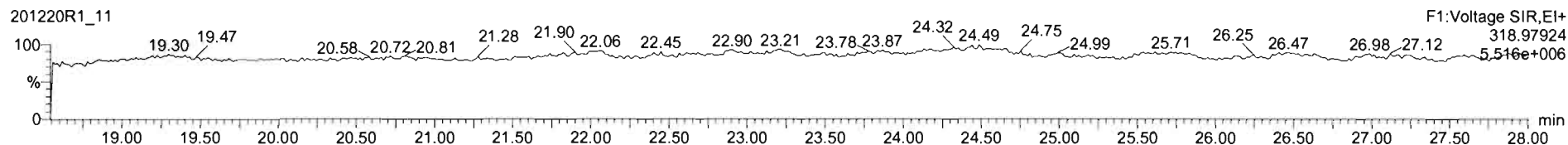
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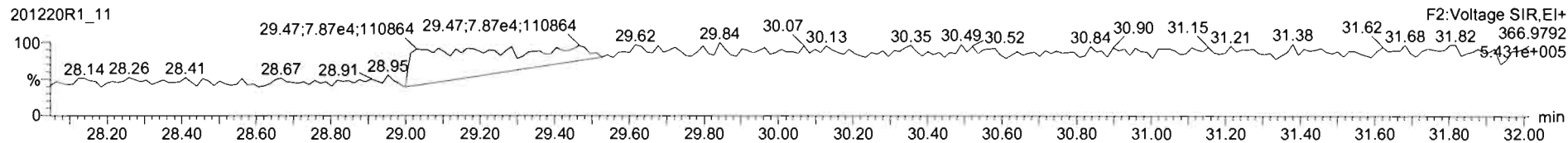
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Name: 201220R1_11, Date: 20-Dec-2020, Time: 15:54:19, ID: 2002532-09 USMPDI-004SC-A-03-04-201111 17.26, Description: USMPDI-004SC-A-03-04-201111

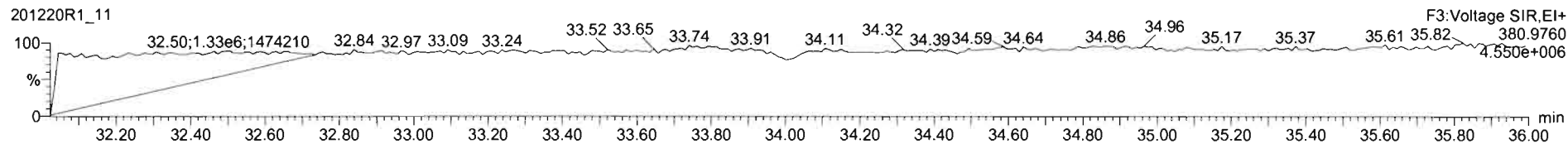
PFK1



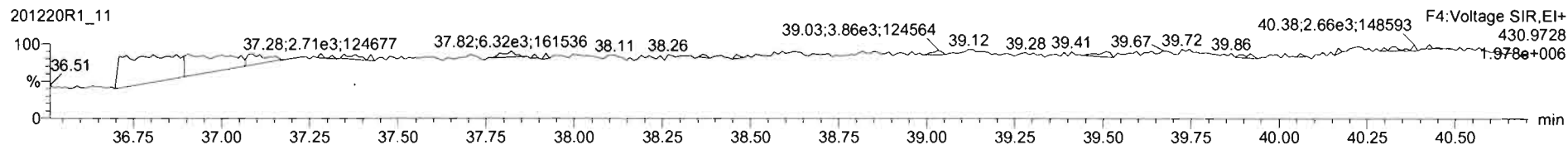
PFK2



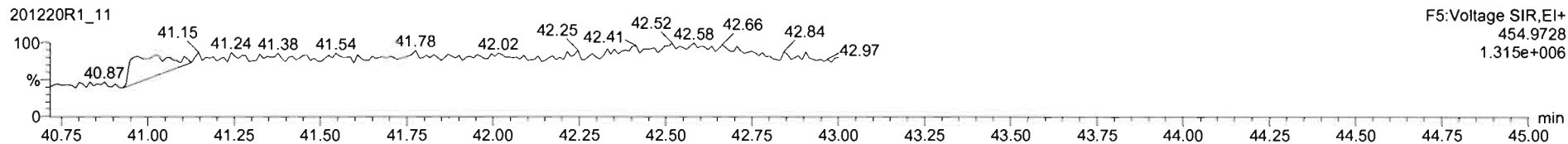
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\201221R1\201221R1-12.qld

Last Altered: Tuesday, December 22, 2020 6:59:15 AM Pacific Standard Time

Printed: Wednesday, December 23, 2020 11:16:38 AM Pacific Standard Time

GRB 12/23/2020

*Mu
12/26/20*

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: 201221R1_12, Date: 21-Dec-2020, Time: 16:16:42, ID: 2002532-09@10X USMPDI-004SC-A-03-04-201111 17.26, Description: USMPDI-004SC-A-03-04-201111

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	7 OCDD	9.19e5	0.88	NO	0.866	10.068	41.113	41.12	1.000	1.000	7744.1		8.90	7740
2	24 13C-OCDD	5.45e4	0.91	NO	0.496	10.068	41.154	41.10	1.216	1.214	334.56	84.2	2.91	
3	35 37Cl-2,3,7,8-TCDD	3.31e4			1.22	10.068	26.302	26.33	1.030	1.031	71.051	89.4	0.128	
4	36 13C-1,2,3,4-TCDD	7.61e4	0.78	NO	1.00	10.068	25.640	25.54	1.000	1.000	198.64	100	0.934	
5	37 13C-1,2,3,4-TCDF	1.21e5	0.76	NO	1.00	10.068	24.130	24.03	1.000	1.000	198.64	100	1.27	
6	38 13C-1,2,3,4,6,9-HxCDF	6.52e4	0.48	NO	1.00	10.068	33.920	33.85	1.000	1.000	198.64	100	1.48	

Dataset: Untitled

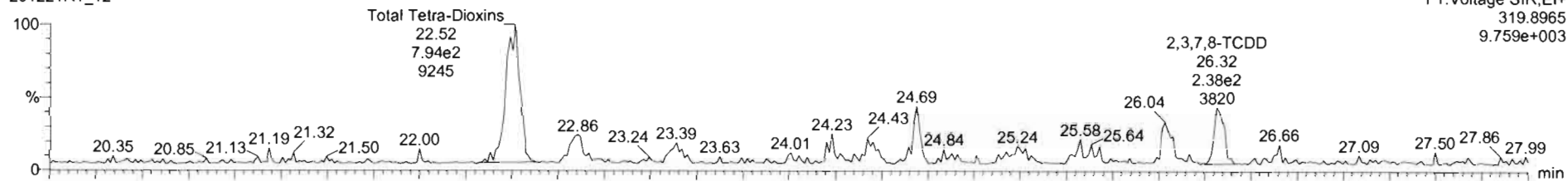
Last Altered: Tuesday, December 22, 2020 6:56:08 AM Pacific Standard Time

Printed: Tuesday, December 22, 2020 6:57:36 AM Pacific Standard Time

Name: 201221R1_12, Date: 21-Dec-2020, Time: 16:16:42, ID: 2002532-09@10X USMPDI-004SC-A-03-04-201111 17.26, Description: USMPDI-004SC-A-03-04-201111

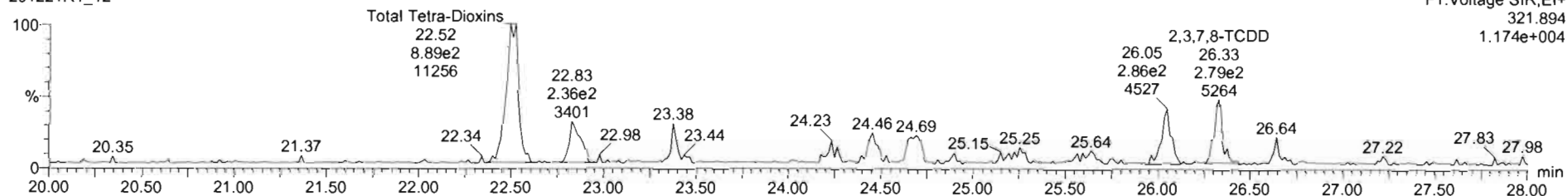
2,3,7,8-TCDD

201221R1_12



F1:Voltage SIR,EI+
319.8965
9.759e+003

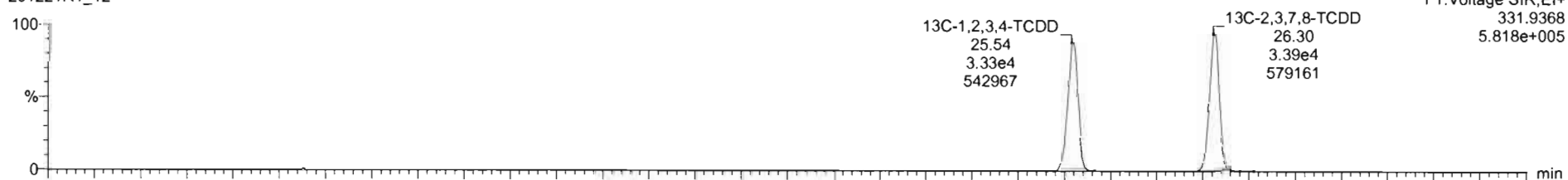
201221R1_12



F1:Voltage SIR,EI+
321.894
1.174e+004

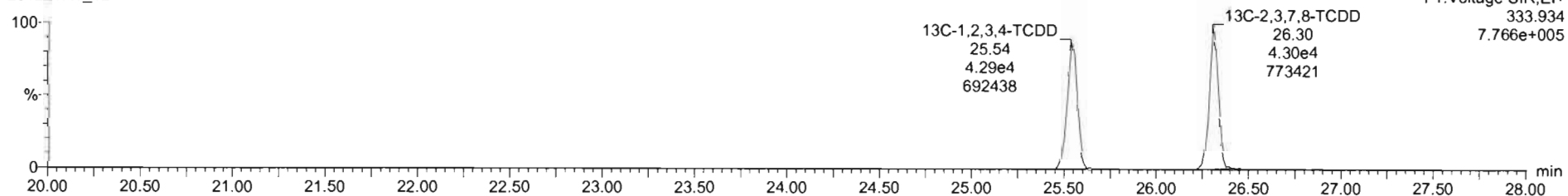
13C-2,3,7,8-TCDD

201221R1_12



F1:Voltage SIR,EI+
331.9368
5.818e+005

201221R1_12



F1:Voltage SIR,EI+
333.934
7.766e+005

Dataset: Untitled

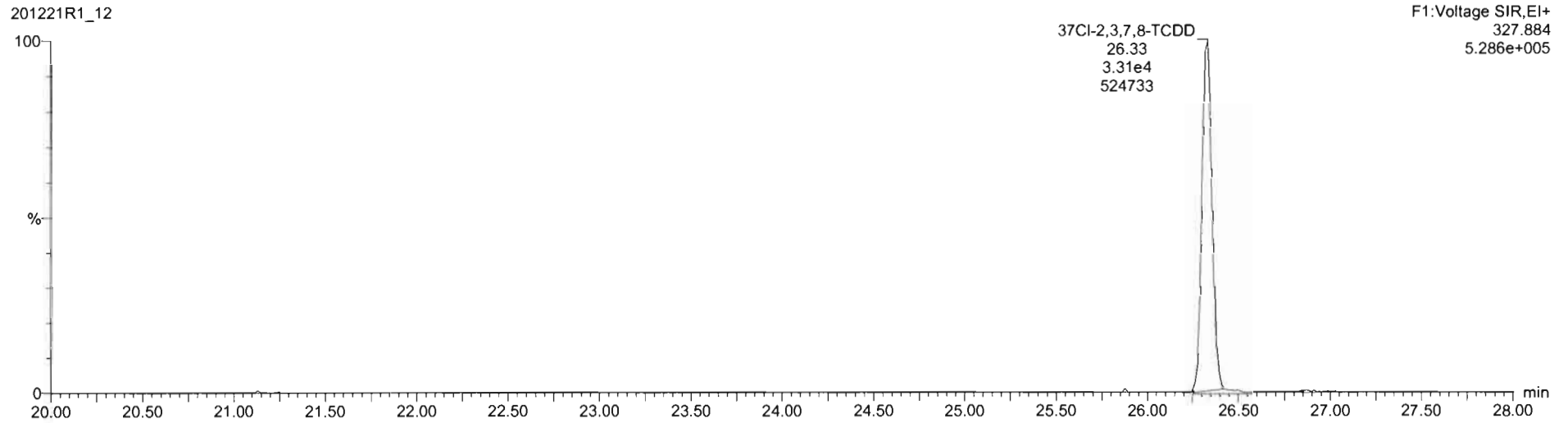
Last Altered: Tuesday, December 22, 2020 6:56:08 AM Pacific Standard Time

Printed: Tuesday, December 22, 2020 6:57:36 AM Pacific Standard Time

Name: 201221R1_12, Date: 21-Dec-2020, Time: 16:16:42, ID: 2002532-09@10X USMPDI-004SC-A-03-04-201111 17.26, Description: USMPDI-004SC-A-03-04-201111

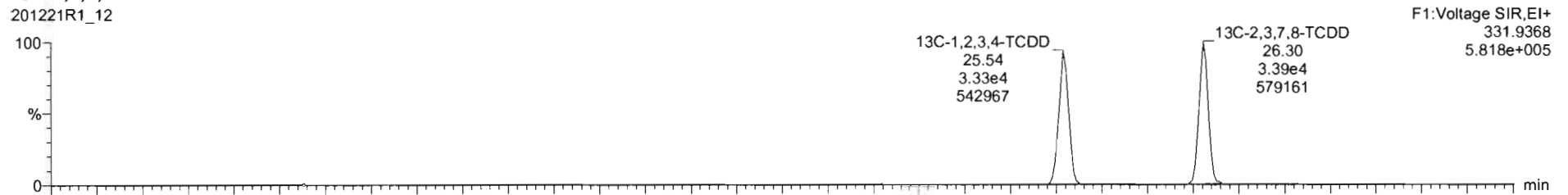
37Cl-2,3,7,8-TCDD

201221R1_12

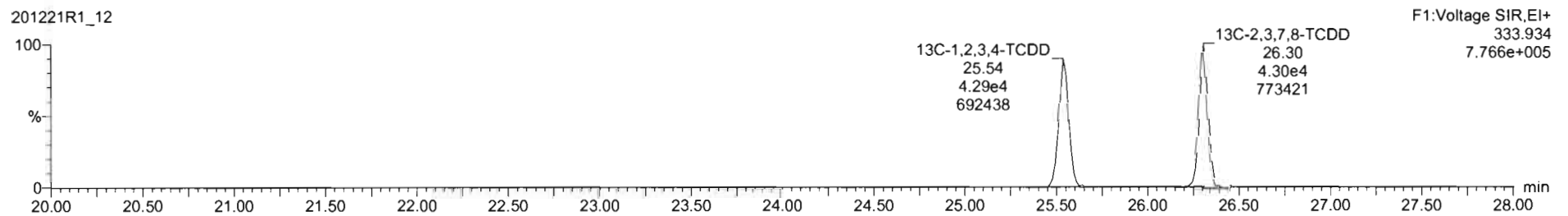


13C-1,2,3,4-TCDD

201221R1_12



201221R1_12



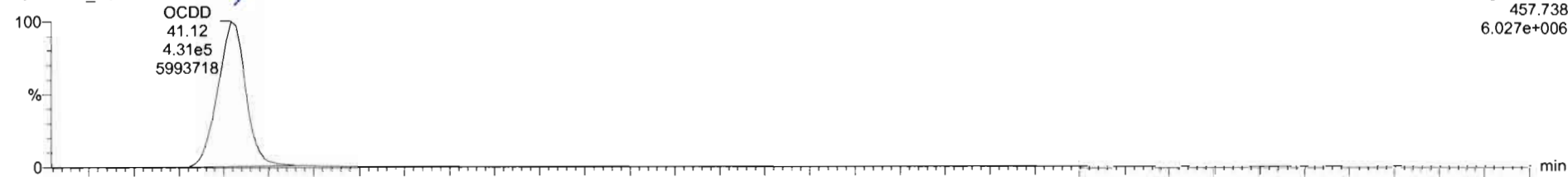
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Printed: Tuesday, December 22, 2020 6:57:36 AM Pacific Standard Time

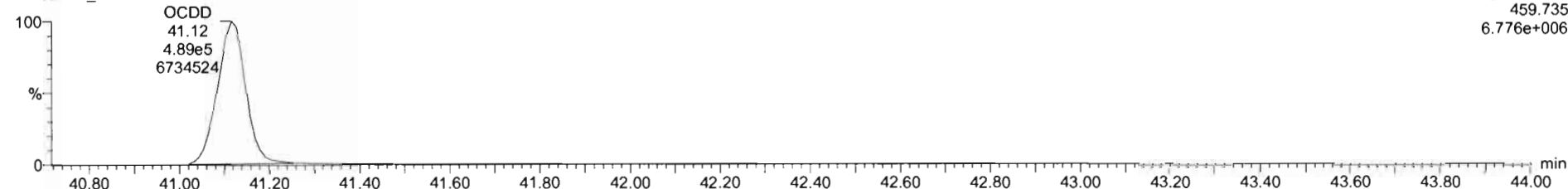
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OCDD

201221R1_12

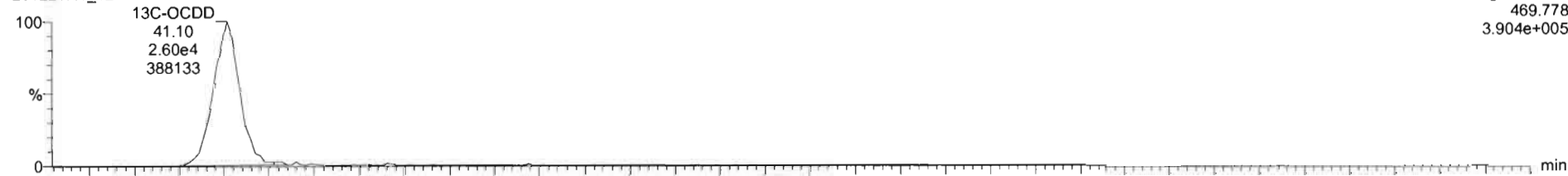


201221R1_12

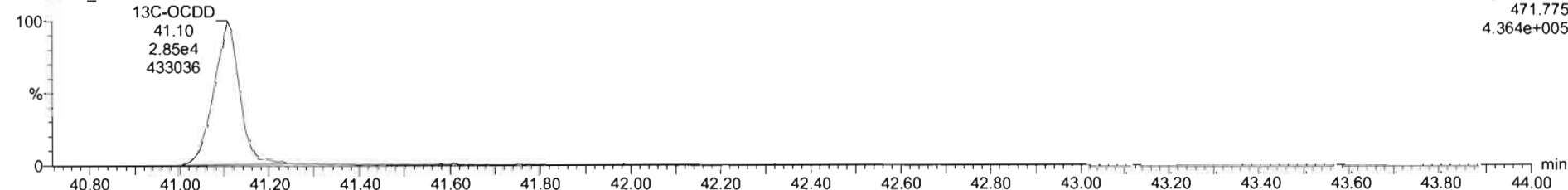


13C-OCDD

201221R1_12



201221R1_12

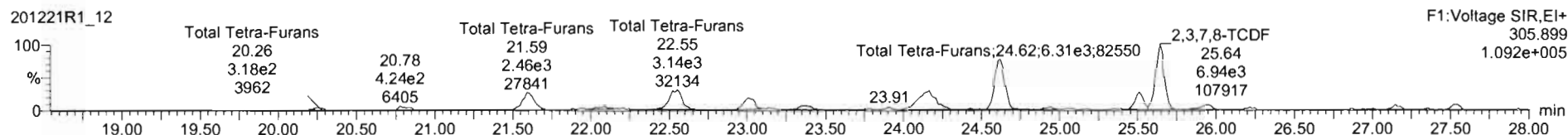
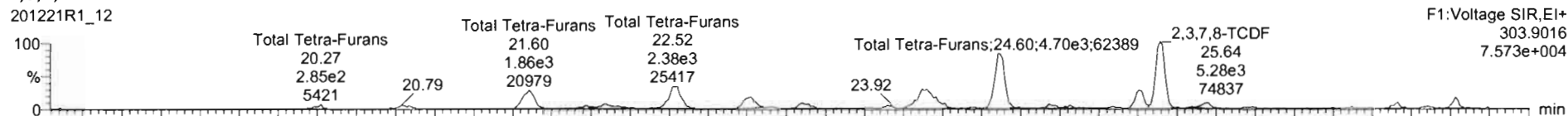


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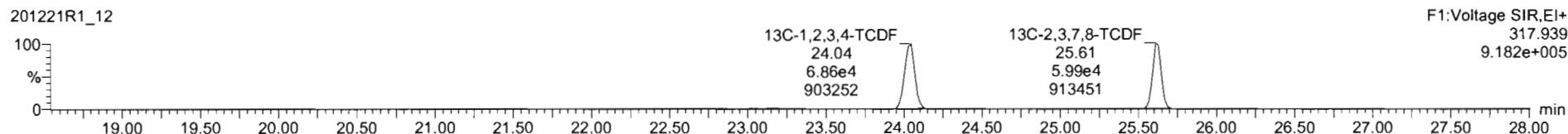
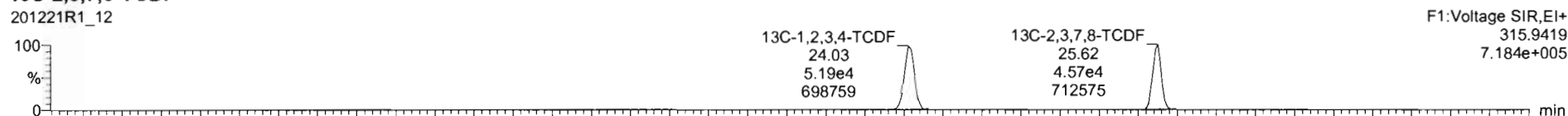
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Printed: Tuesday, December 22, 2020 6:57:36 AM Pacific Standard Time

Name: 201221R1_12, Date: 21-Dec-2020, Time: 16:16:42, ID: 2002532-09@10X USMPDI-004SC-A-03-04-201111 17.26, Description: USMPDI-004SC-A-03-04-201111

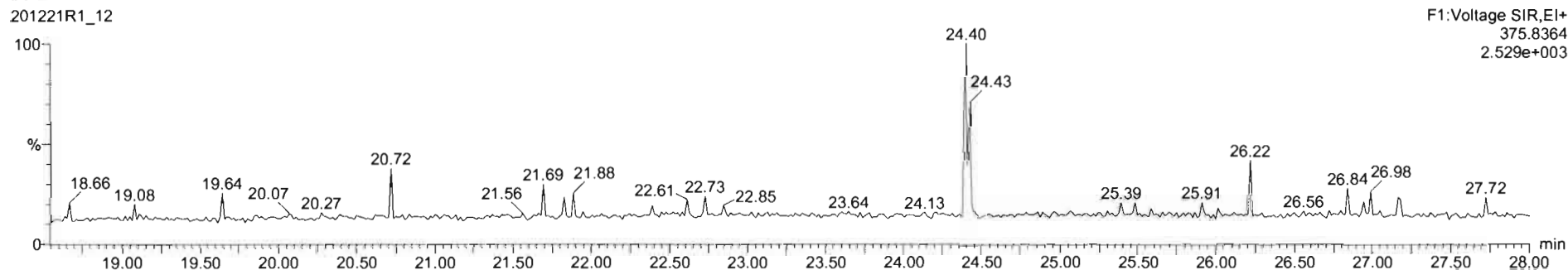
2,3,7,8-TCDF



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



DPE1

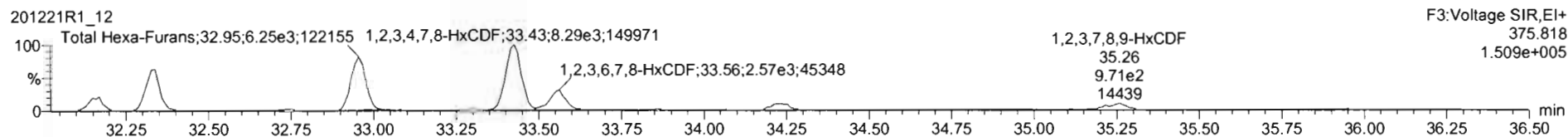
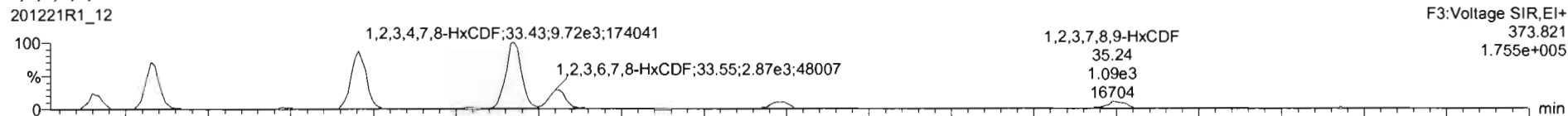


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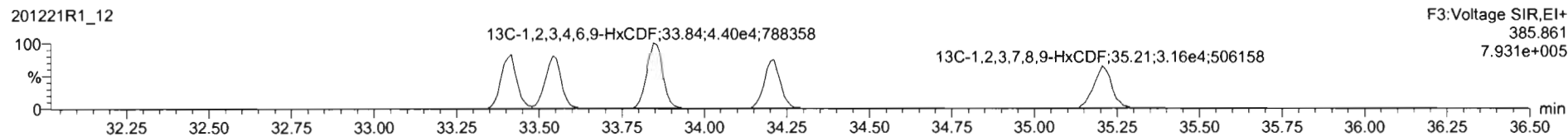
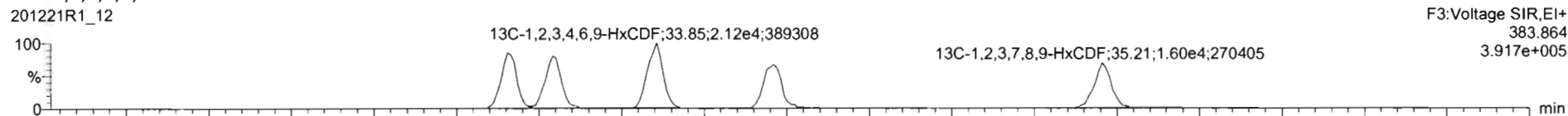
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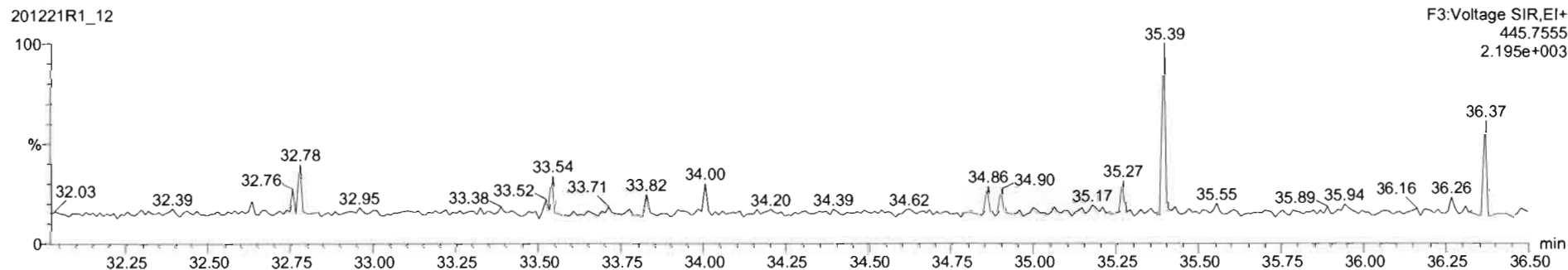
1,2,3,4,7,8-HxCDF



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



DPE3



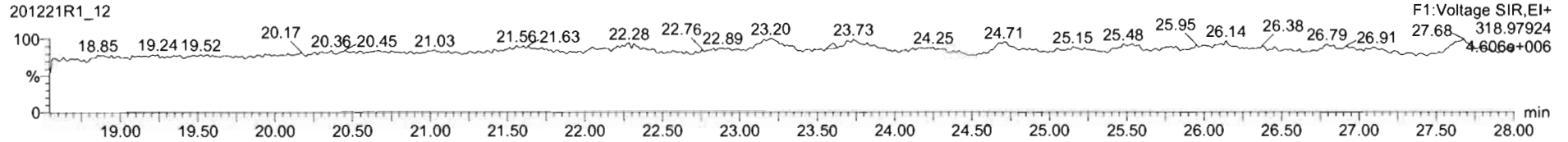
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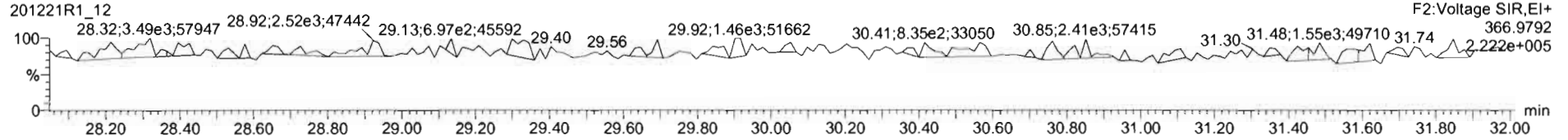
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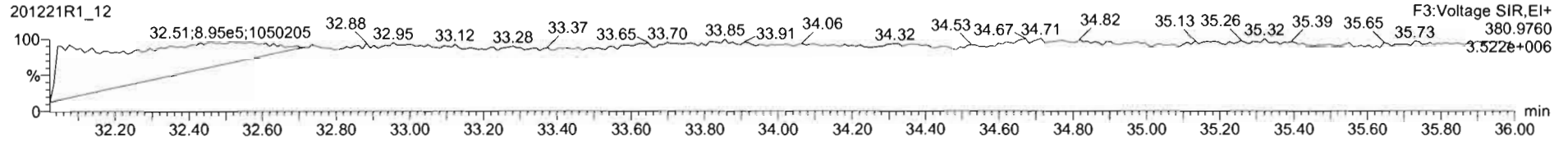
PFK1



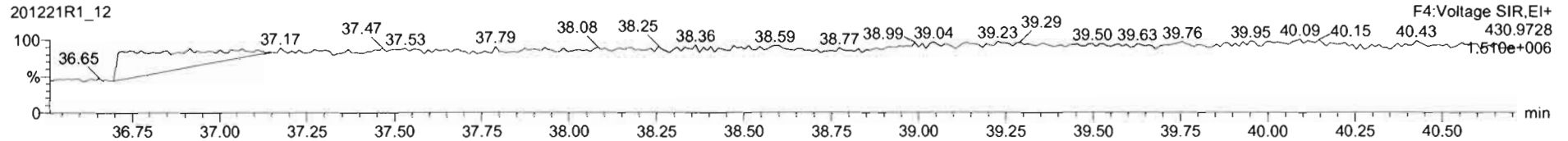
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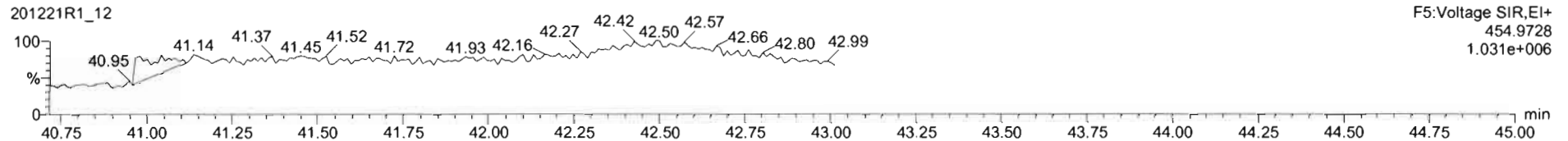
PFK3



PFK4



PFK5



Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201220R1\201220R1-12.qld

Last Altered: Wednesday, December 23, 2020 12:04:16 PM Pacific Standard Time

Printed: Wednesday, December 23, 2020 12:04:34 PM Pacific Standard Time

GPB 12/23/2020

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

MW 12/23/20

Name: 201220R1_12, Date: 20-Dec-2020, Time: 16:38:35, ID: 2002532-10 USMPDI-004SC-A-04-05-201111 17.55, Description: USMPDI-004SC-A-04-05-201111

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.980	10.096	26.337		1.001				0.0602	
2	2 1,2,3,7,8-PeCDD			NO	0.932	10.096	31.048		1.001				0.140	
3	3 1,2,3,4,7,8-HxCDD	3.87e2	1.23	NO	1.02	10.096	34.336	34.33	1.001	1.000	0.22576		0.257	0.226
4	4 1,2,3,6,7,8-HxCDD	2.42e3	1.10	NO	0.902	10.096	34.462	34.45	1.001	1.000	1.4594		0.266	1.46
5	5 1,2,3,7,8,9-HxCDD	8.05e2	1.21	NO	0.954	10.096	34.723	34.74	1.000	1.001	0.45955		0.269	0.460
6	6 1,2,3,4,6,7,8-HpCDD	1.17e5	1.01	NO	0.918	10.096	38.189	38.20	1.000	1.001	80.334		0.831	80.3
7	7 OCDD	6.65e5	0.88	NO	0.866	10.096	41.102	41.12	1.000	1.001	636.58		0.866	637
8	8 2,3,7,8-TCDF	2.52e4	0.73	NO	0.848	10.096	25.628	25.64	1.000	1.001	7.9309		0.0750	7.93
9	9 1,2,3,7,8-PeCDF	5.60e4	1.55	NO	0.960	10.096	29.754	29.77	1.000	1.001	18.426		0.122	18.4
10	10 2,3,4,7,8-PeCDF	2.82e4	1.53	NO	1.07	10.096	30.844	30.84	1.001	1.000	8.5445		0.106	8.54
11	11 1,2,3,4,7,8-HxCDF	4.22e4	1.22	NO	0.986	10.096	33.425	33.43	1.000	1.000	21.387		0.117	21.4
12	12 1,2,3,6,7,8-HxCDF	8.96e3	1.19	NO	1.04	10.096	33.561	33.56	1.001	1.001	4.4518		0.121	4.45
13	13 2,3,4,6,7,8-HxCDF	2.58e3	1.19	NO	1.02	10.096	34.232	34.23	1.001	1.001	1.2446		0.119	1.24
14	14 1,2,3,7,8,9-HxCDF	1.21e3	1.27	NO	0.991	10.096	35.217	35.24	1.000	1.001	0.64243		0.146	0.642
15	15 1,2,3,4,6,7,8-HpCDF	1.05e4	0.98	NO	1.05	10.096	36.792	36.78	1.000	1.000	6.8250		0.177	6.83
16	16 1,2,3,4,7,8,9-HpCDF	2.37e3	0.97	NO	1.18	10.096	38.817	38.83	1.000	1.001	1.6108		0.151	1.61
17	17 OCDF	1.78e4	0.88	NO	0.896	10.096	41.395	41.40	1.000	1.000	15.399		0.209	15.4
18	18 13C-2,3,7,8-TCDD	5.65e5	0.77	NO	1.06	10.096	26.323	26.31	1.030	1.030	132.77	67.0	0.139	
19	19 13C-1,2,3,7,8-PeCDD	4.48e5	0.63	NO	0.785	10.096	31.157	31.02	1.219	1.214	141.74	71.6	0.169	
20	20 13C-1,2,3,4,7,8-HxCDD	3.33e5	1.27	NO	0.621	10.096	34.315	34.31	1.014	1.014	144.18	72.8	0.322	
21	21 13C-1,2,3,6,7,8-HxCDD	3.65e5	1.27	NO	0.734	10.096	34.437	34.44	1.017	1.017	133.68	67.5	0.272	
22	22 13C-1,2,3,7,8,9-HxCDD	3.64e5	1.26	NO	0.723	10.096	34.722	34.71	1.026	1.025	135.33	68.3	0.276	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.16e5	1.10	NO	0.568	10.096	38.219	38.18	1.129	1.128	149.52	75.5	0.716	
24	24 13C-OCDD	4.78e5	0.89	NO	0.496	10.096	41.154	41.09	1.216	1.214	259.50	65.5	0.647	
25	25 13C-2,3,7,8-TCDF	7.43e5	0.77	NO	0.919	10.096	25.623	25.63	1.003	1.003	134.69	68.0	0.201	
26	26 13C-1,2,3,7,8-PeCDF	6.27e5	1.64	NO	0.715	10.096	29.869	29.75	1.169	1.164	146.09	73.7	0.325	
27	27 13C-2,3,4,7,8-PeCDF	6.13e5	1.60	NO	0.689	10.096	30.955	30.82	1.212	1.206	148.47	74.9	0.337	
28	28 13C-1,2,3,4,7,8-HxCDF	3.97e5	0.50	NO	0.873	10.096	33.422	33.42	0.987	0.987	122.17	61.7	0.422	
29	29 13C-1,2,3,6,7,8-HxCDF	3.84e5	0.51	NO	0.933	10.096	33.550	33.54	0.991	0.991	110.68	55.9	0.395	
30	30 13C-2,3,4,6,7,8-HxCDF	4.03e5	0.51	NO	0.843	10.096	34.217	34.21	1.011	1.011	128.50	64.9	0.438	
31	31 13C-1,2,3,7,8,9-HxCDF	3.75e5	0.51	NO	0.780	10.096	35.216	35.21	1.040	1.040	129.37	65.3	0.473	

Dataset: U:\VG12.PRO\Results\201220R1\201220R1-12.qld

Last Altered: Wednesday, December 23, 2020 12:04:16 PM Pacific Standard Time

Printed: Wednesday, December 23, 2020 12:04:34 PM Pacific Standard Time

Name: 201220R1_12, Date: 20-Dec-2020, Time: 16:38:35, ID: 2002532-10 USMPDI-004SC-A-04-05-201111 17.55, Description: USMPDI-004SC-A-04-05-201111

#	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	2.89e5	0.41	NO	0.726	10.096	36.790	36.77	1.087	1.086	107.08	54.1	0.449	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.47e5	0.43	NO	0.491	10.096	38.798	38.81	1.146	1.146	135.54	68.4	0.665	
34	34 13C-OCDF	5.11e5	0.88	NO	0.565	10.096	41.371	41.39	1.222	1.222	242.95	61.3	0.506	
35	35 37Cl-2,3,7,8-TCDD	3.62e5			1.22	10.096	26.318	26.33	1.030	1.031	73.843	93.2	0.0352	
36	36 13C-1,2,3,4-TCDD	7.98e5	0.78	NO	1.00	10.096	25.640	25.55	1.000	1.000	198.10	100	0.147	
37	37 13C-1,2,3,4-TCDF	1.19e6	0.79	NO	1.00	10.096	24.130	24.04	1.000	1.000	198.10	100	0.184	
38	38 13C-1,2,3,4,6,9-HxCDF	7.36e5	0.51	NO	1.00	10.096	33.920	33.85	1.000	1.000	198.10	100	0.369	
39	39 Total Tetra-Dioxins				0.980	10.096	24.620		0.000		0.16788		0.0602	0.168
40	40 Total Penta-Dioxins				0.932	10.096	29.960		0.000		0.54437		0.140	1.01
41	41 Total Hexa-Dioxins				0.902	10.096	33.635		0.000		23.314		0.280	23.3
42	42 Total Hepta-Dioxins				0.918	10.096	37.640		0.000		196.49		0.831	196
43	43 Total Tetra-Furans				0.848	10.096	23.610		0.000		17.911		0.0750	17.9
44	44 1st Func. Penta-Furans				0.960	10.096	26.930		0.000		1.6766		0.0226	1.68
45	45 Total Penta-Furans				0.960	10.096	29.275		0.000		42.812		0.120	43.2
46	46 Total Hexa-Furans				1.02	10.096	33.555		0.000		35.951		0.124	36.0
47	47 Total Hepta-Furans				1.05	10.096	37.835		0.000		17.809		0.174	17.8

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Dataset: U:\VG12.PRO\Results\201220R1\201220R1-12.qld

Last Altered: Wednesday, December 23, 2020 12:04:16 PM Pacific Standard Time

Printed: Wednesday, December 23, 2020 12:04:34 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\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201220R1_12, Date: 20-Dec-2020, Time: 16:38:35, ID: 2002532-10 USMPDI-004SC-A-04-05-201111 17.55, Description: USMPDI-004SC-A-04-05-201111

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.50	3.592e3	4.516e3	2.051e2	2.640e2	0.78	NO	4.691e2	0.16788	0.16788	0.0602

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	4.896e3	6.855e3	2.516e2	4.279e2	0.59	NO	6.795e2	0.32238	0.32238	0.140
2	Total Penta-Dioxins	29.22	3.810e3	4.303e3	1.729e2	2.364e2	0.73	YES	0.000e0	0.00000	0.18284	0.140
3	Total Penta-Dioxins	29.75	6.513e3	9.059e3	3.829e2	3.657e2	1.05	YES	0.000e0	0.00000	0.28282	0.140
4	Total Penta-Dioxins	30.26	2.862e3	4.421e3	1.752e2	2.927e2	0.60	NO	4.679e2	0.22200	0.22200	0.140

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.69	2.109e5	1.576e5	9.882e3	7.775e3	1.27	NO	1.766e4	10.961	10.961	0.280
2	Total Hexa-Dioxins	33.30	1.883e4	1.633e4	1.017e3	8.451e2	1.20	NO	1.862e3	1.1559	1.1559	0.280
3	Total Hexa-Dioxins	33.58	9.586e4	7.981e4	7.045e3	5.337e3	1.32	NO	1.238e4	7.6864	7.6864	0.280
4	Total Hexa-Dioxins	33.69	1.553e4	8.083e3	6.266e2	4.941e2	1.27	NO	1.121e3	0.69575	0.69575	0.280
5	1,2,3,4,7,8-HxCDD	34.33	4.762e3	3.197e3	2.129e2	1.737e2	1.23	NO	3.867e2	0.22576	0.22576	0.257
6	1,2,3,6,7,8-HxCDD	34.45	2.351e4	1.901e4	1.273e3	1.152e3	1.10	NO	2.425e3	1.4594	1.4594	0.266
7	Total Hexa-Dioxins	34.62	8.307e3	9.207e3	5.593e2	5.201e2	1.08	NO	1.079e3	0.67007	0.67007	0.280
8	1,2,3,7,8,9-HxCDD	34.74	7.629e3	7.513e3	4.404e2	3.642e2	1.21	NO	8.046e2	0.45955	0.45955	0.269

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.17	1.328e6	1.264e6	8.614e4	8.370e4	1.03	NO	1.698e5	116.15	116.15	0.831
2	1,2,3,4,6,7,8-HpCDD	38.20	1.074e6	1.084e6	5.915e4	5.832e4	1.01	NO	1.175e5	80.334	80.334	0.831

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Dataset: U:\VG12.PRO\Results\201220R1\201220R1-12.qld

Last Altered: Wednesday, December 23, 2020 12:04:16 PM Pacific Standard Time

Printed: Wednesday, December 23, 2020 12:04:34 PM Pacific Standard Time

Name: 201220R1_12, Date: 20-Dec-2020, Time: 16:38:35, ID: 2002532-10 USMPDI-004SC-A-04-05-201111 17.55, Description: USMPDI-004SC-A-04-05-201111

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.82	1.672e3	1.985e3	1.015e2	1.413e2	0.72	NO	2.428e2	0.076365	0.076365	0.0750
2	Total Tetra-Furans	21.59	6.449e3	9.599e3	5.468e2	7.138e2	0.77	NO	1.261e3	0.39647	0.39647	0.0750
3	Total Tetra-Furans	22.53	2.556e4	2.955e4	2.013e3	2.710e3	0.74	NO	4.722e3	1.4853	1.4853	0.0750
4	Total Tetra-Furans	23.01	6.702e3	1.075e4	5.989e2	7.067e2	0.85	NO	1.306e3	0.41061	0.41061	0.0750
5	Total Tetra-Furans	23.38	2.707e3	3.518e3	2.014e2	2.812e2	0.72	NO	4.826e2	0.15179	0.15179	0.0750
6	Total Tetra-Furans	24.16	7.615e3	9.372e3	7.939e2	9.447e2	0.84	NO	1.739e3	0.54681	0.54681	0.0750
7	Total Tetra-Furans	24.60	1.177e5	1.600e5	8.592e3	1.169e4	0.74	NO	2.028e4	6.3786	6.3786	0.0750
8	Total Tetra-Furans	25.52	5.603e3	9.188e3	4.217e2	6.017e2	0.70	NO	1.023e3	0.32187	0.32187	0.0750
9	2,3,7,8-TCDF	25.64	1.573e5	2.292e5	1.066e4	1.455e4	0.73	NO	2.522e4	7.9309	7.9309	0.0750
10	Total Tetra-Furans	27.53	4.686e3	9.789e3	2.675e2	4.081e2	0.66	NO	6.756e2	0.21248	0.21248	0.0750

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.15	5.220e4	3.230e4	3.086e3	1.951e3	1.58	NO	5.037e3	1.6766	1.6766	0.0226

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.61	6.737e3	4.386e3	3.528e2	2.034e2	1.73	NO	5.562e2	0.18513	0.18513	0.120
2	Total Penta-Furans	28.77	2.514e5	1.527e5	1.440e4	9.302e3	1.55	NO	2.371e4	7.8910	7.8910	0.120
3	Total Penta-Furans	29.42	1.104e4	1.176e4	6.707e2	6.203e2	1.08	YES	0.000e0	0.00000	0.36729	0.120
4	Total Penta-Furans	29.57	5.606e4	3.712e4	2.494e3	1.888e3	1.32	NO	4.382e3	1.4585	1.4585	0.120
5	1,2,3,7,8-PeCDF	29.77	6.541e5	4.414e5	3.398e4	2.198e4	1.55	NO	5.596e4	18.426	18.426	0.122
6	Total Penta-Furans	29.84	8.906e3	4.752e3	3.721e2	2.237e2	1.66	NO	5.958e2	0.19831	0.19831	0.120
7	Total Penta-Furans	30.02	2.187e5	1.337e5	1.074e4	6.815e3	1.58	NO	1.755e4	5.8427	5.8427	0.120
8	2,3,4,7,8-PeCDF	30.84	3.403e5	2.314e5	1.706e4	1.117e4	1.53	NO	2.823e4	8.5445	8.5445	0.106
9	Total Penta-Furans	31.73	1.003e4	5.122e3	4.992e2	2.993e2	1.67	NO	7.985e2	0.26579	0.26579	0.120

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201220R1\201220R1-12.qld

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Printed: Wednesday, December 23, 2020 12:04:34 PM Pacific Standard Time

Name: 201220R1_12, Date: 20-Dec-2020, Time: 16:38:35, ID: 2002532-10 USMPDI-004SC-A-04-05-201111 17.55, Description: USMPDI-004SC-A-04-05-201111

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.17	1.766e4	1.421e4	8.120e2	6.490e2	1.25	NO	1.461e3	0.72824	0.72824	0.124
2	Total Hexa-Furans	32.34	7.416e4	5.788e4	3.406e3	2.875e3	1.18	NO	6.281e3	3.1308	3.1308	0.124
3	Total Hexa-Furans	32.97	6.273e4	4.817e4	3.164e3	2.601e3	1.22	NO	5.765e3	2.8735	2.8735	0.124
4	Total Hexa-Furans	33.30	4.365e3	4.183e3	2.053e2	1.898e2	1.08	NO	3.951e2	0.19694	0.19694	0.124
5	1,2,3,4,7,8-HxCDF	33.43	4.711e5	3.936e5	2.320e4	1.901e4	1.22	NO	4.221e4	21.387	21.387	0.117
6	1,2,3,6,7,8-HxCDF	33.56	9.846e4	7.413e4	4.865e3	4.099e3	1.19	NO	8.964e3	4.4518	4.4518	0.121
7	2,3,4,6,7,8-HxCDF	34.23	2.290e4	2.089e4	1.404e3	1.177e3	1.19	NO	2.581e3	1.2446	1.2446	0.119
8	1,2,3,7,8,9-HxCDF	35.24	2.644e4	2.270e4	6.732e2	5.320e2	1.27	NO	1.205e3	0.64243	0.64243	0.146
9	Total Hexa-Furans	35.25	3.177e4	2.807e4	1.387e3	1.212e3	1.14	NO	2.599e3	1.2956	1.2956	0.124

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	36.78	7.657e4	8.165e4	5.186e3	5.266e3	0.98	NO	1.045e4	6.8250	6.8250	0.177
2	Total Hepta-Furans	37.51	1.026e5	1.011e5	6.862e3	6.456e3	1.06	NO	1.332e4	9.3734	9.3734	0.174
3	1,2,3,4,7,8,9-HpCDF	38.83	2.074e4	2.278e4	1.167e3	1.199e3	0.97	NO	2.366e3	1.6108	1.6108	0.151

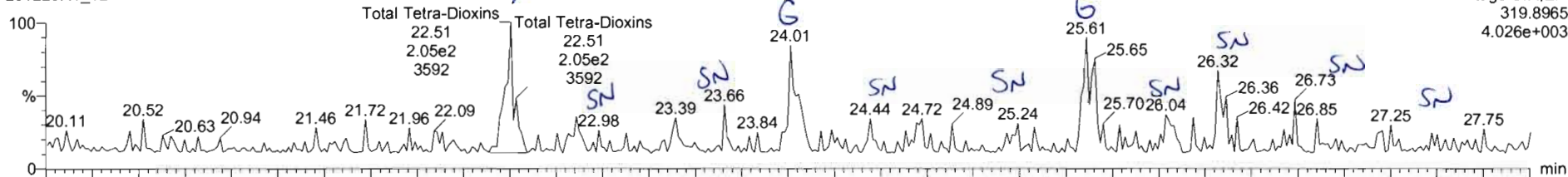
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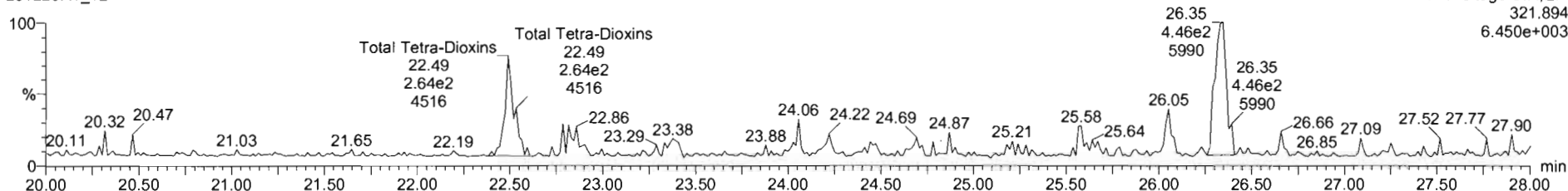
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2,3,7,8-TCDD

201220R1_12

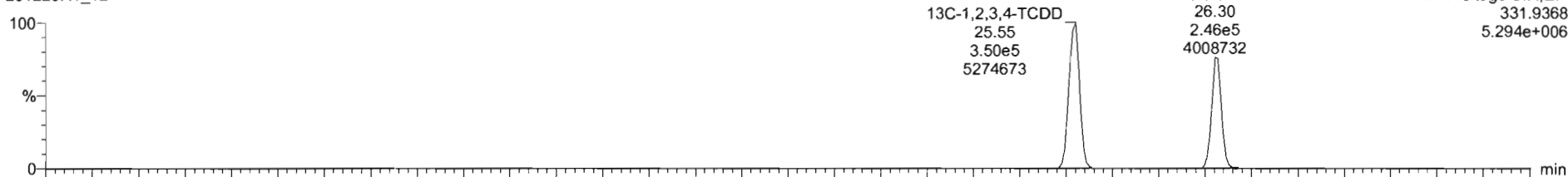


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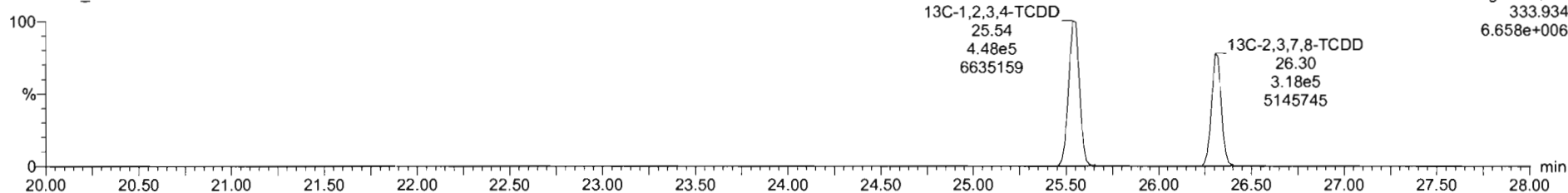


13C-2,3,7,8-TCDD

201220R1_12



201220R1_12



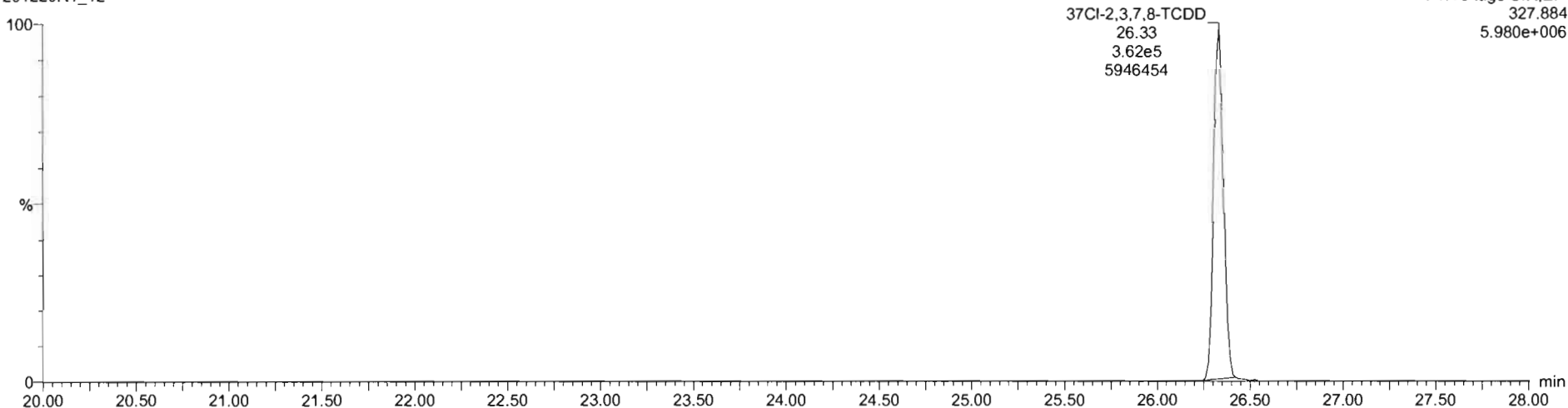
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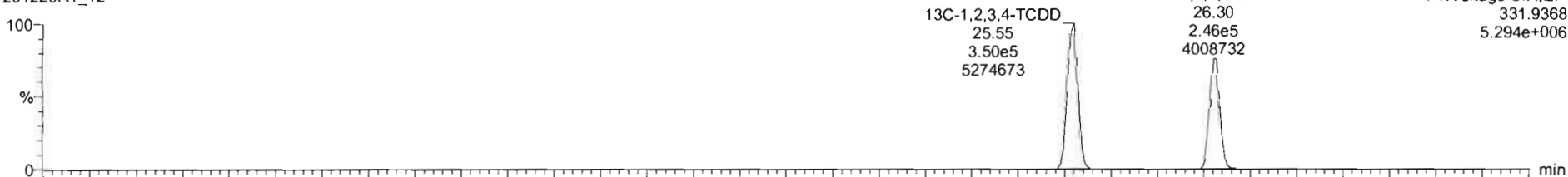
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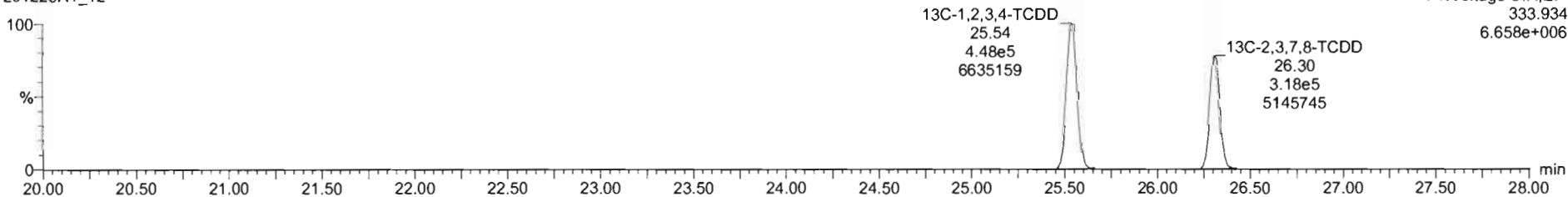


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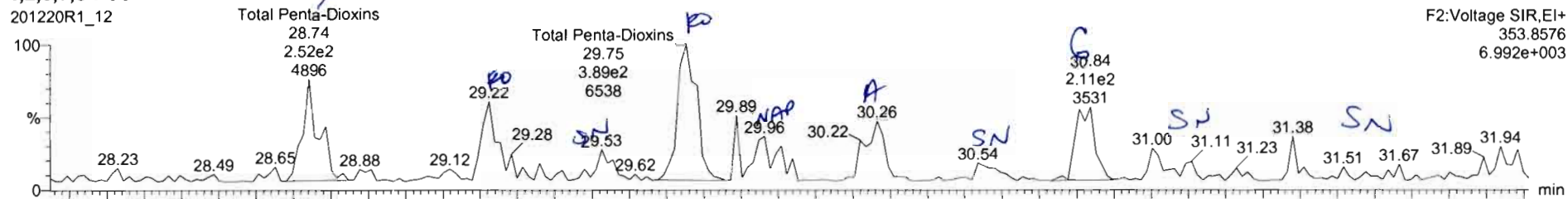
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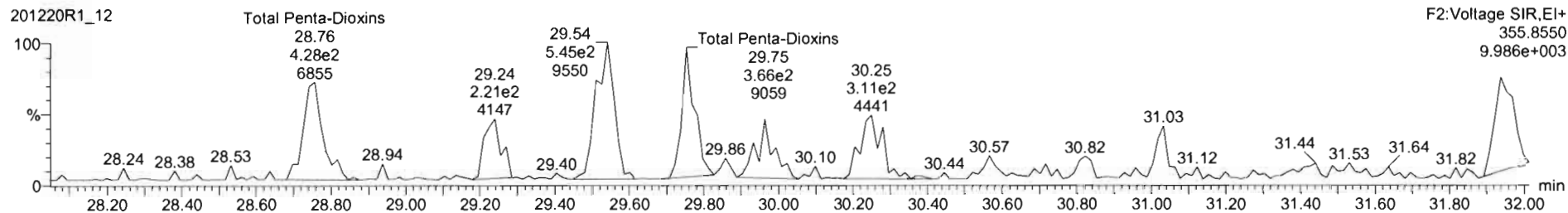
1,2,3,7,8-PeCDD

201220R1_12



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353.8576
6.992e+003

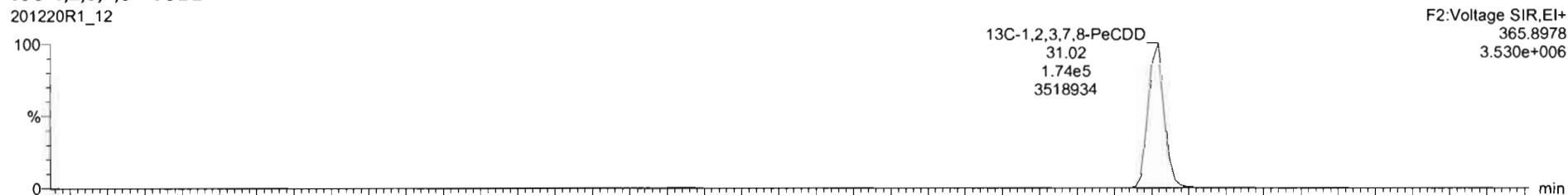
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9.986e+003

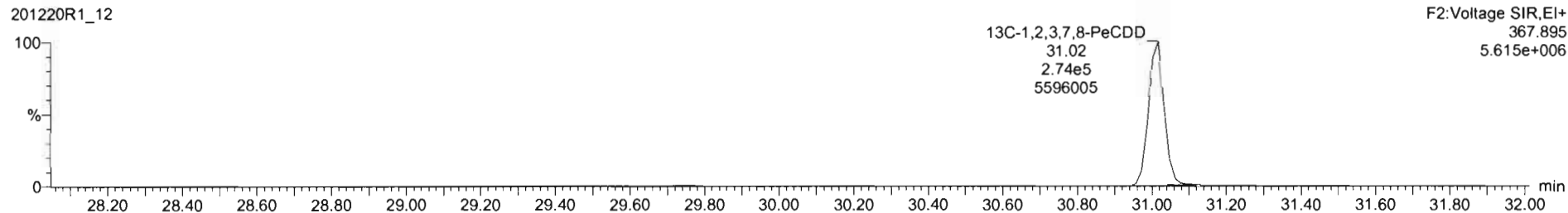
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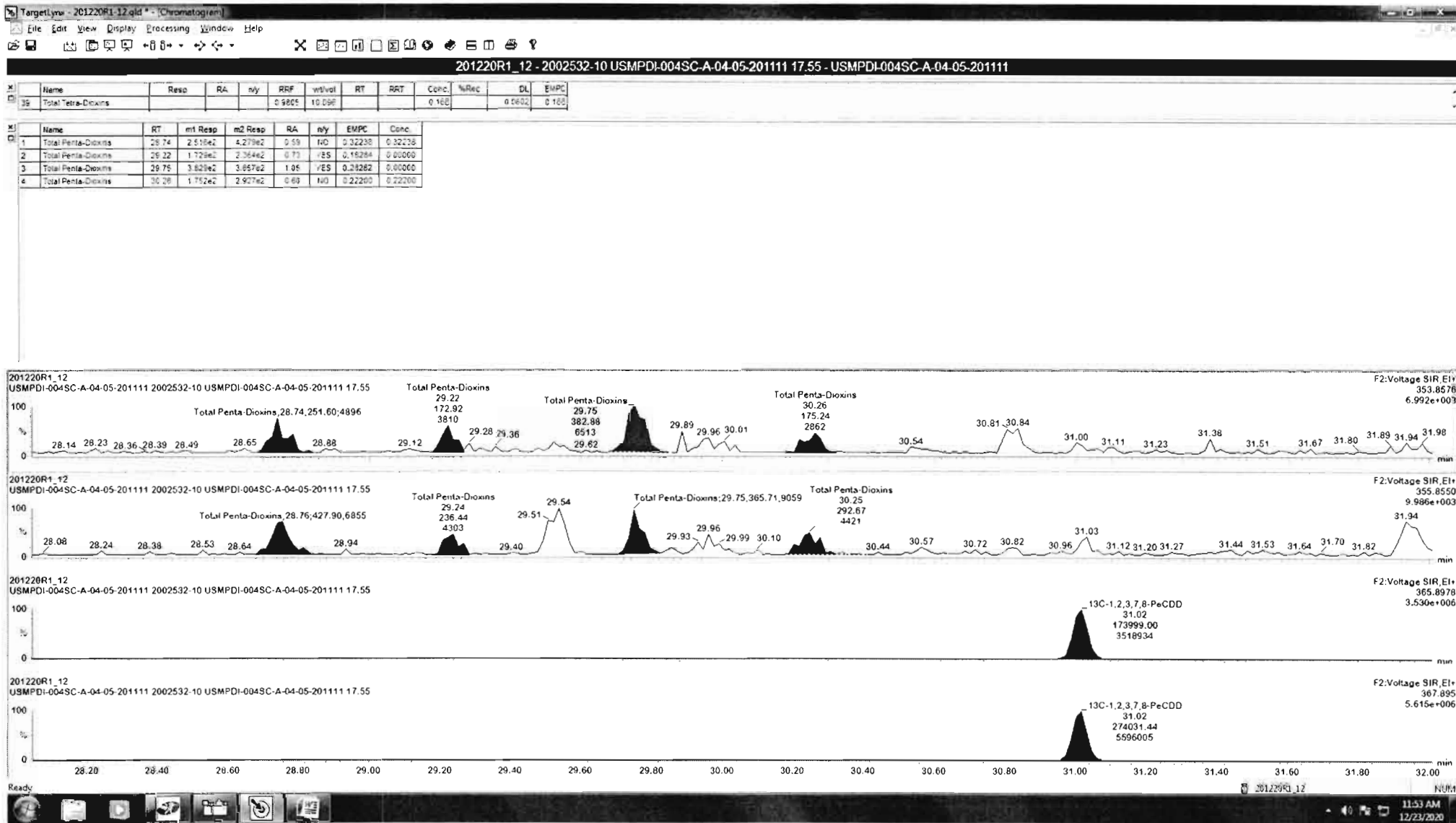


F2:Voltage SIR, EI+
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201220R1_12



F2:Voltage SIR, EI+
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5.615e+006



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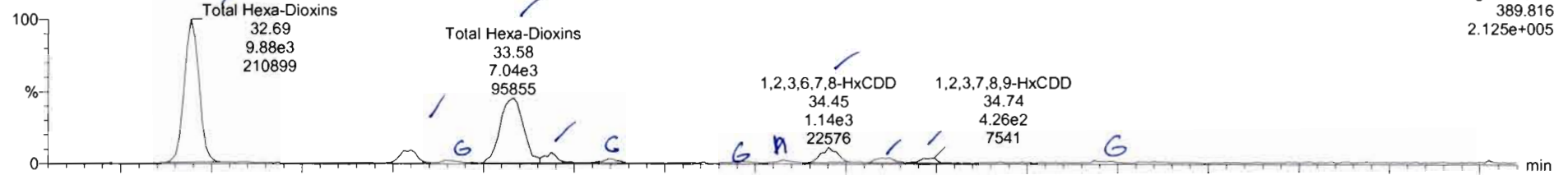
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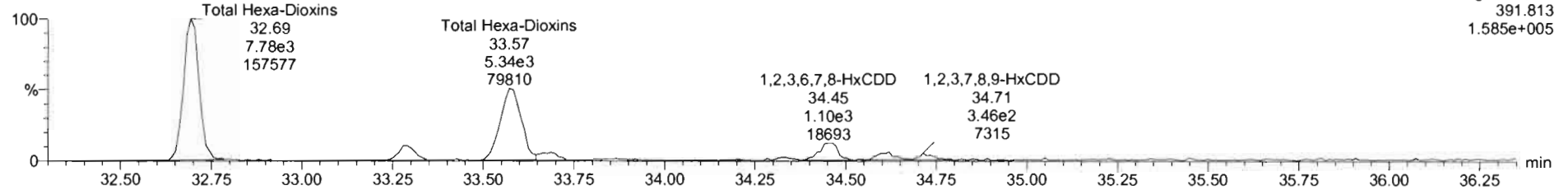
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1,2,3,4,7,8-HxCDD

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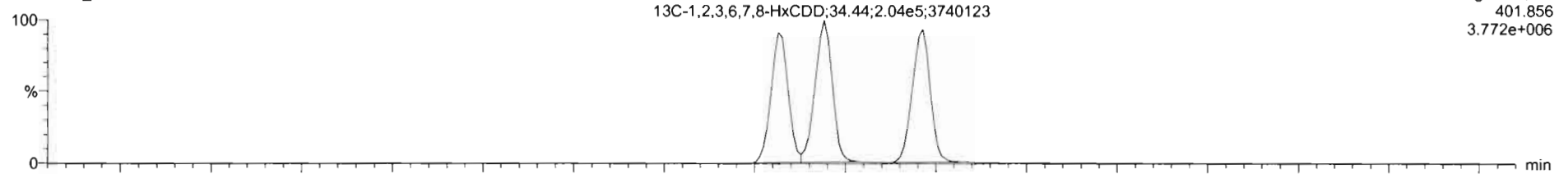


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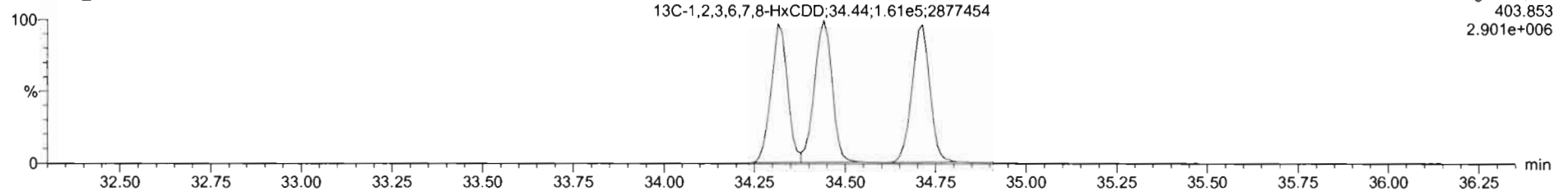


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201220R1_12

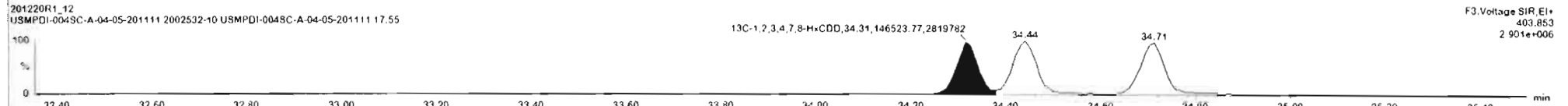
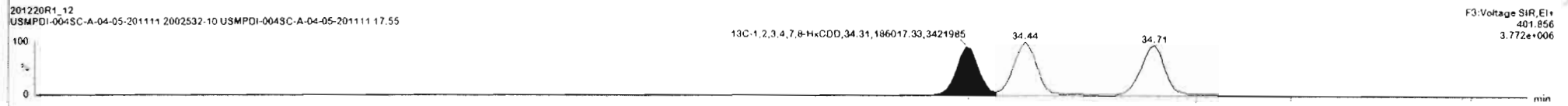
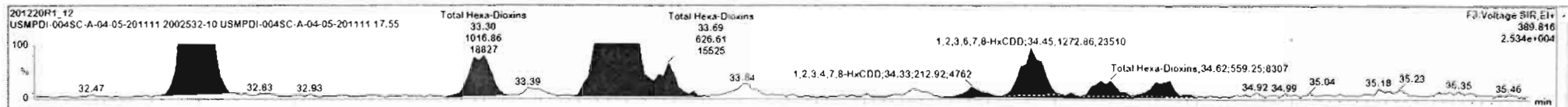


201220R1_12



Name	Resp	RA	n/y	RRF	wt/wt	RT	RRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.9825	10.096			23.3		0.280	23.3

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	32.89	9.852e3	7.775e3	1.27	NO	10.961	15.961
2 Total Hexa-Dioxins	33.30	1.017e3	8.451e2	1.20	NO	1.1558	1.1559
3 Total Hexa-Dioxins	33.58	7.045e3	5.337e3	1.32	NO	7.8864	7.8864
4 Total Hexa-Dioxins	33.89	6.266e2	4.941e2	1.27	NO	0.69171	0.69275
5 1,2,3,4,7,8-HxCDD	34.33	2.129e2	1.737e2	1.23	NO	0.22178	0.22276
6 1,2,3,6,7,8-HxCDD	34.45	1.273e2	1.152e2	1.16	NO	1.4594	1.4594
7 Total Hexa-Dioxins	34.82	5.987e2	5.201e2	1.08	NO	0.67067	0.67067
8 1,2,3,7,8-HxCDD	34.74	4.404e2	3.642e2	1.21	NO	0.45955	0.45955



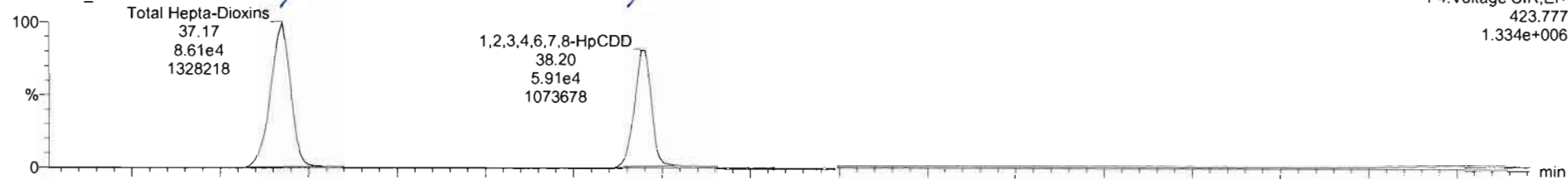
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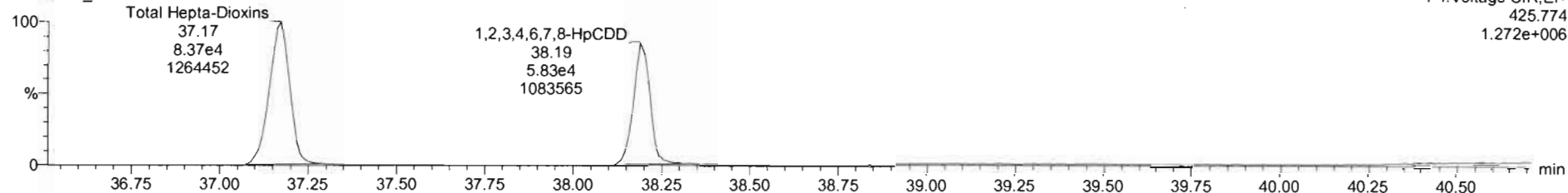
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1,2,3,4,6,7,8-HpCDD

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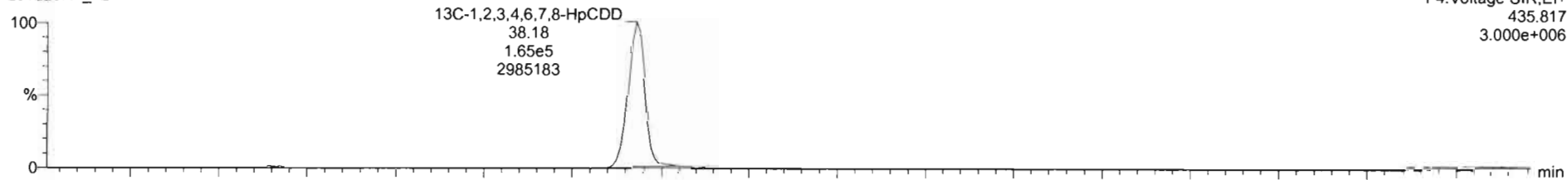


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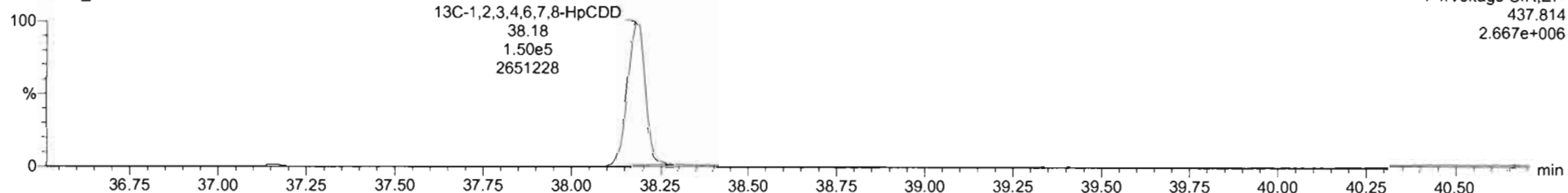


13C-1,2,3,4,6,7,8-HpCDD

201220R1_12



201220R1_12



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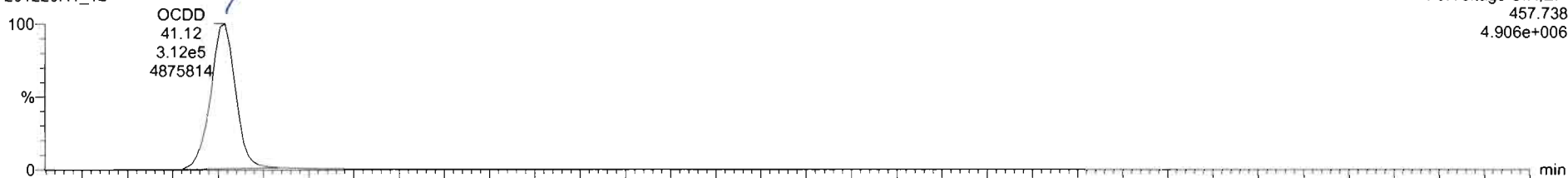
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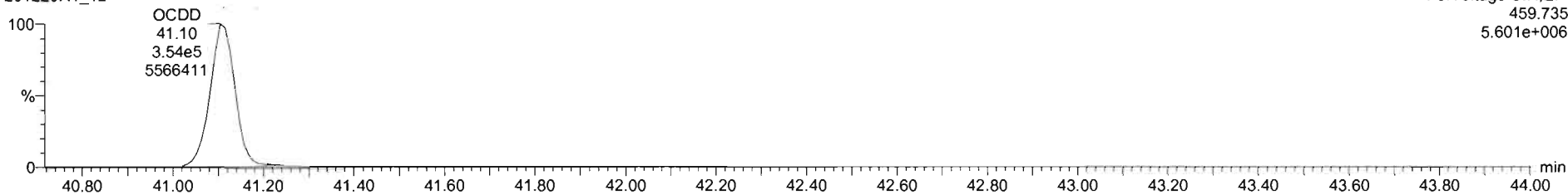
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OCDD

201220R1_12

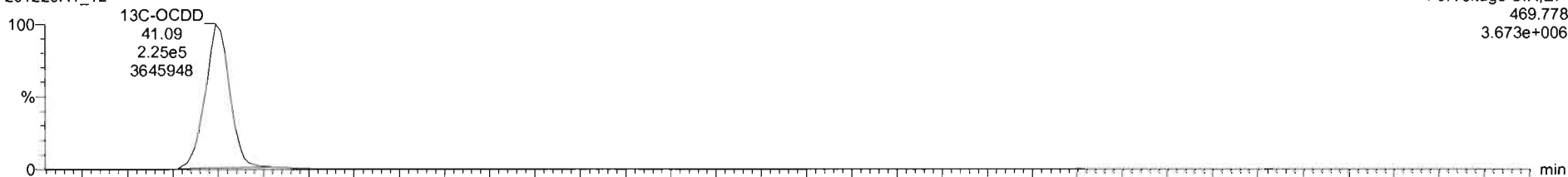


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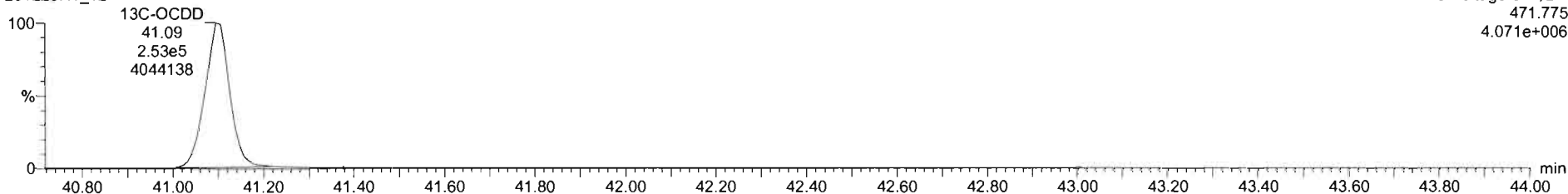


13C-OCDD

201220R1_12



201220R1_12

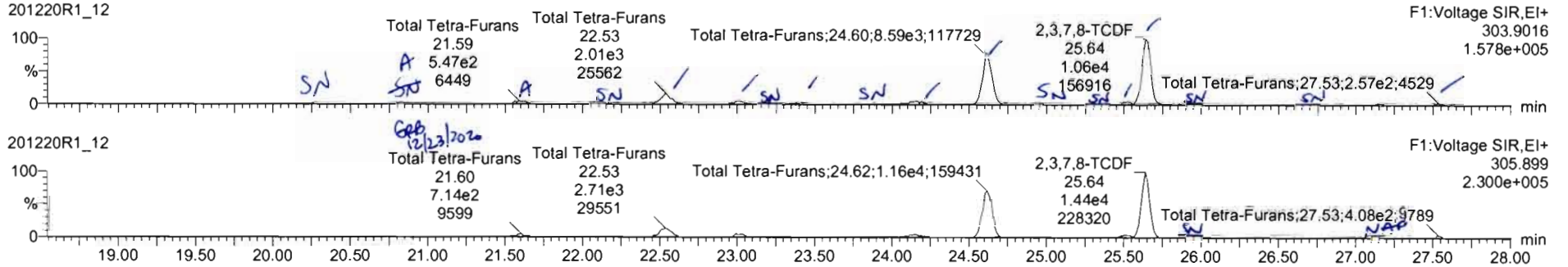


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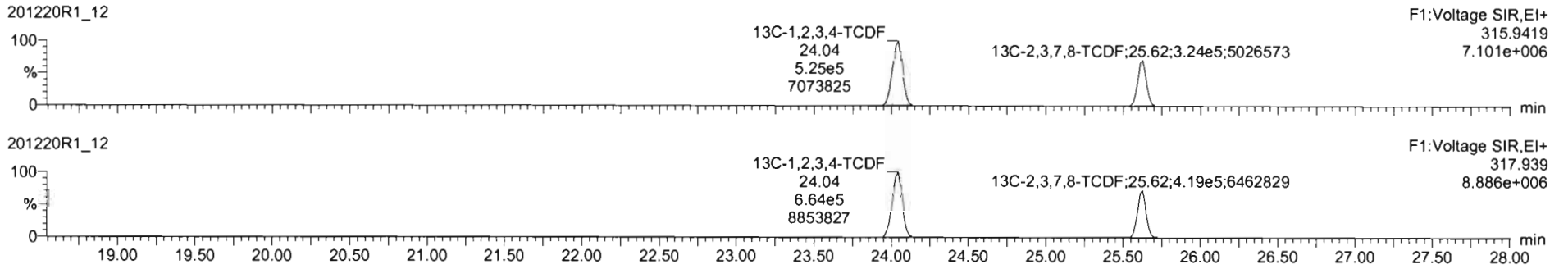
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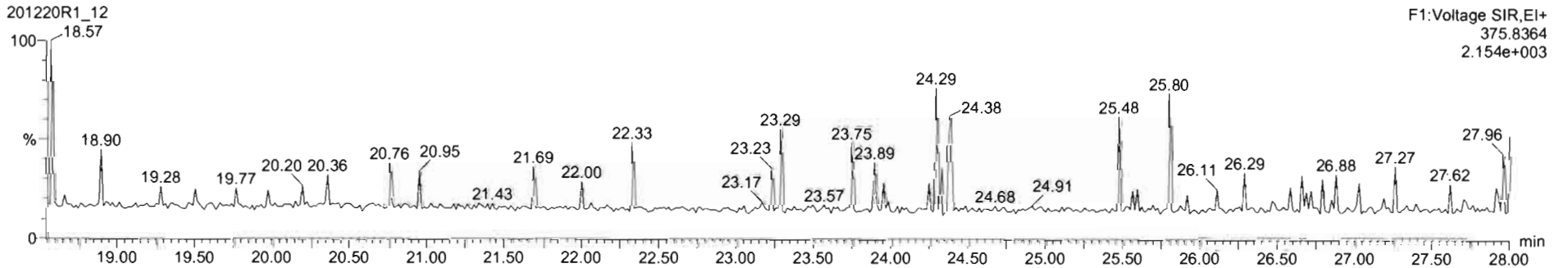
2,3,7,8-TCDF

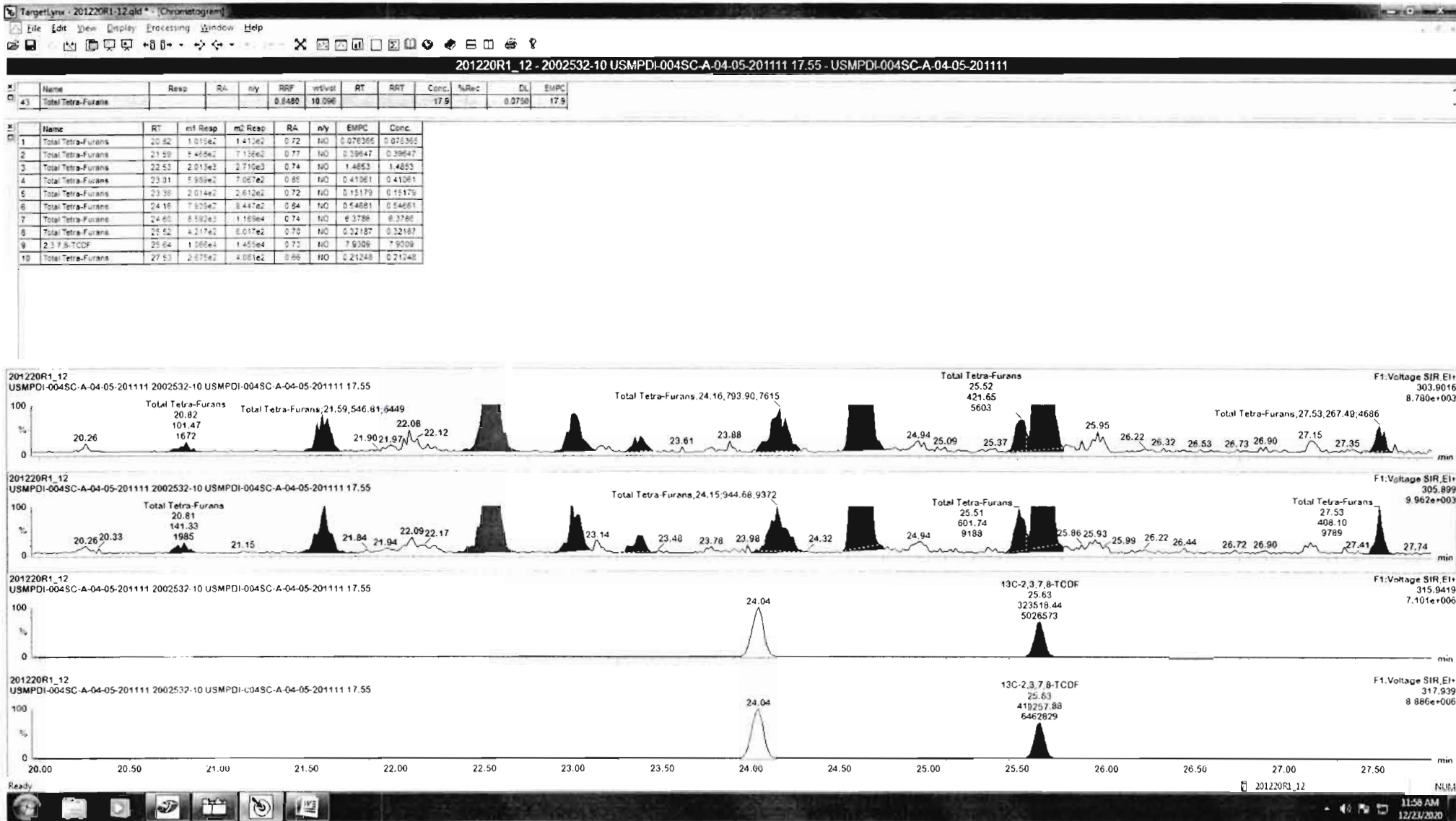


13C-2,3,7,8-TCDF



DPE1





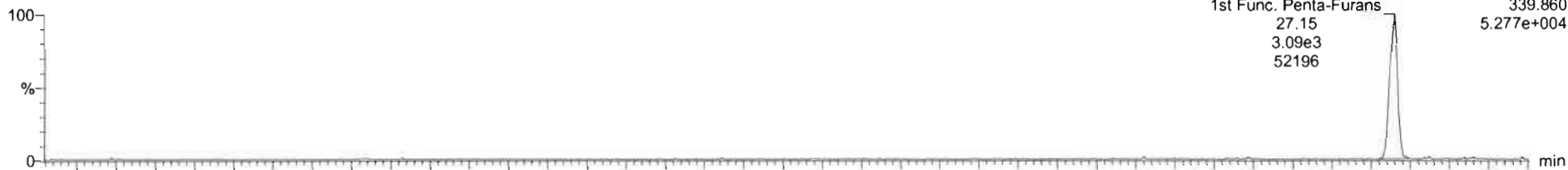
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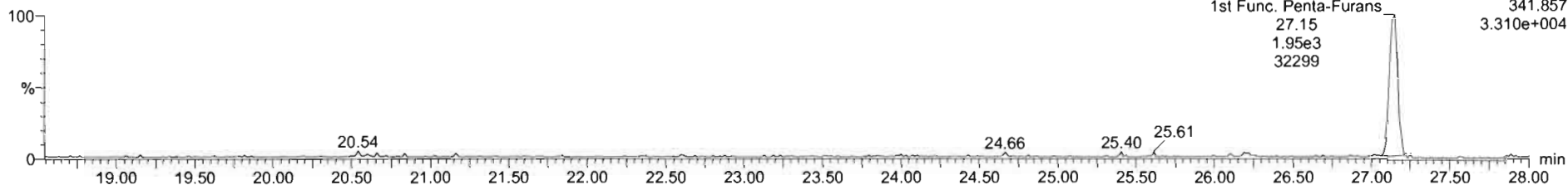
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1st Func. Penta-Furans

201220R1_12

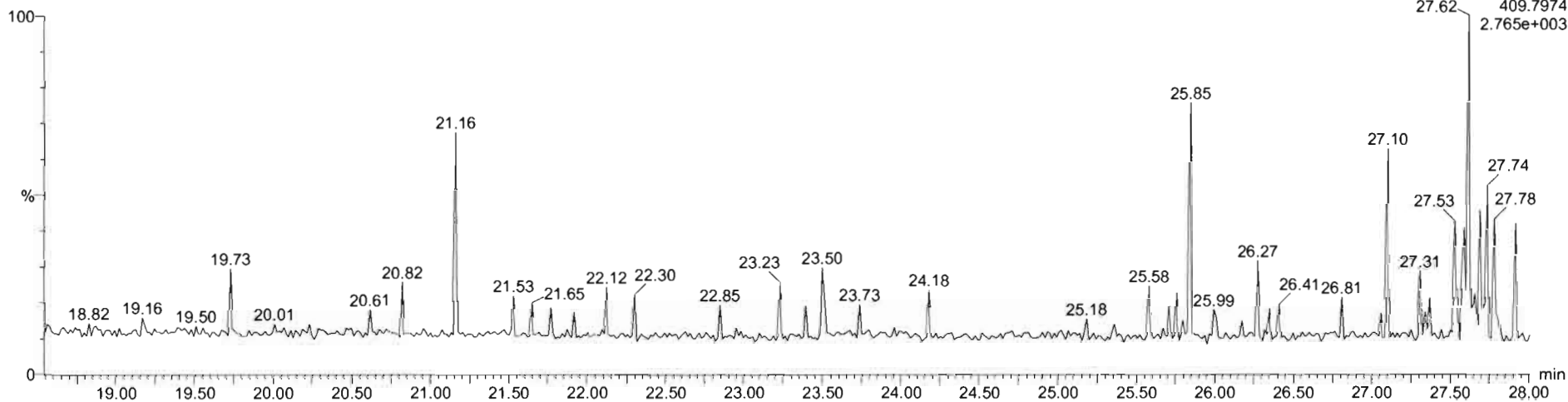


201220R1_12



DPE6

201220R1_12



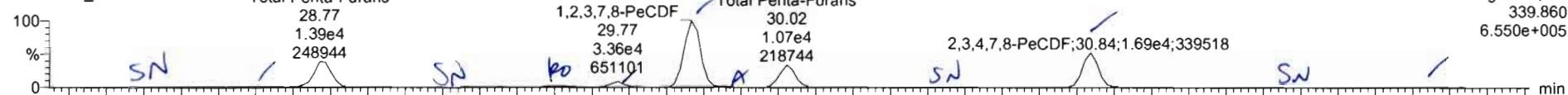
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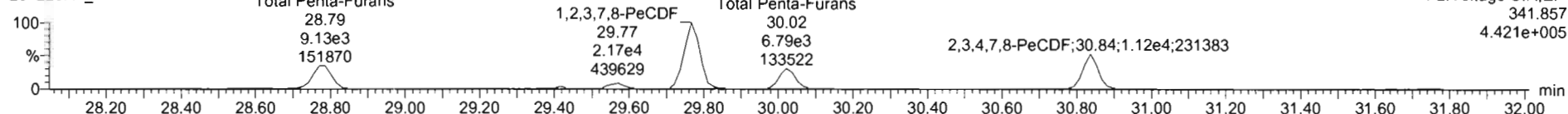
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1,2,3,7,8-PeCDF

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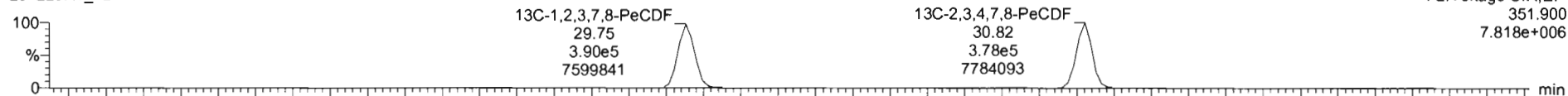


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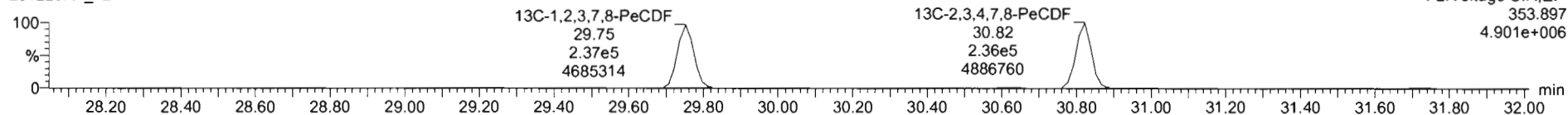


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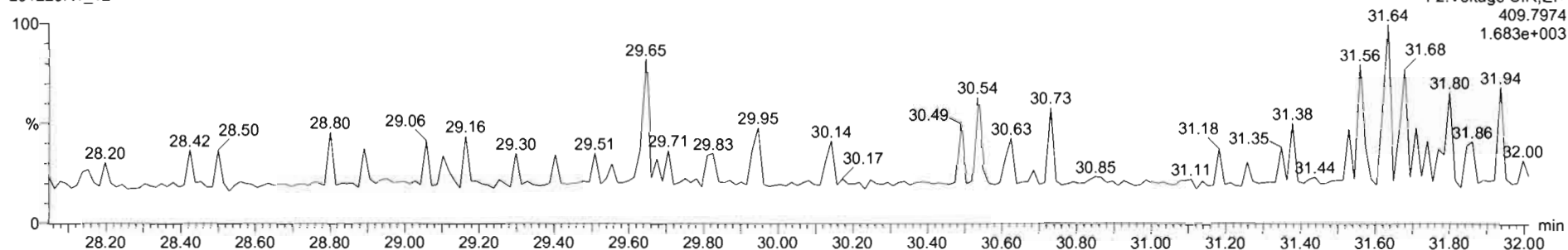


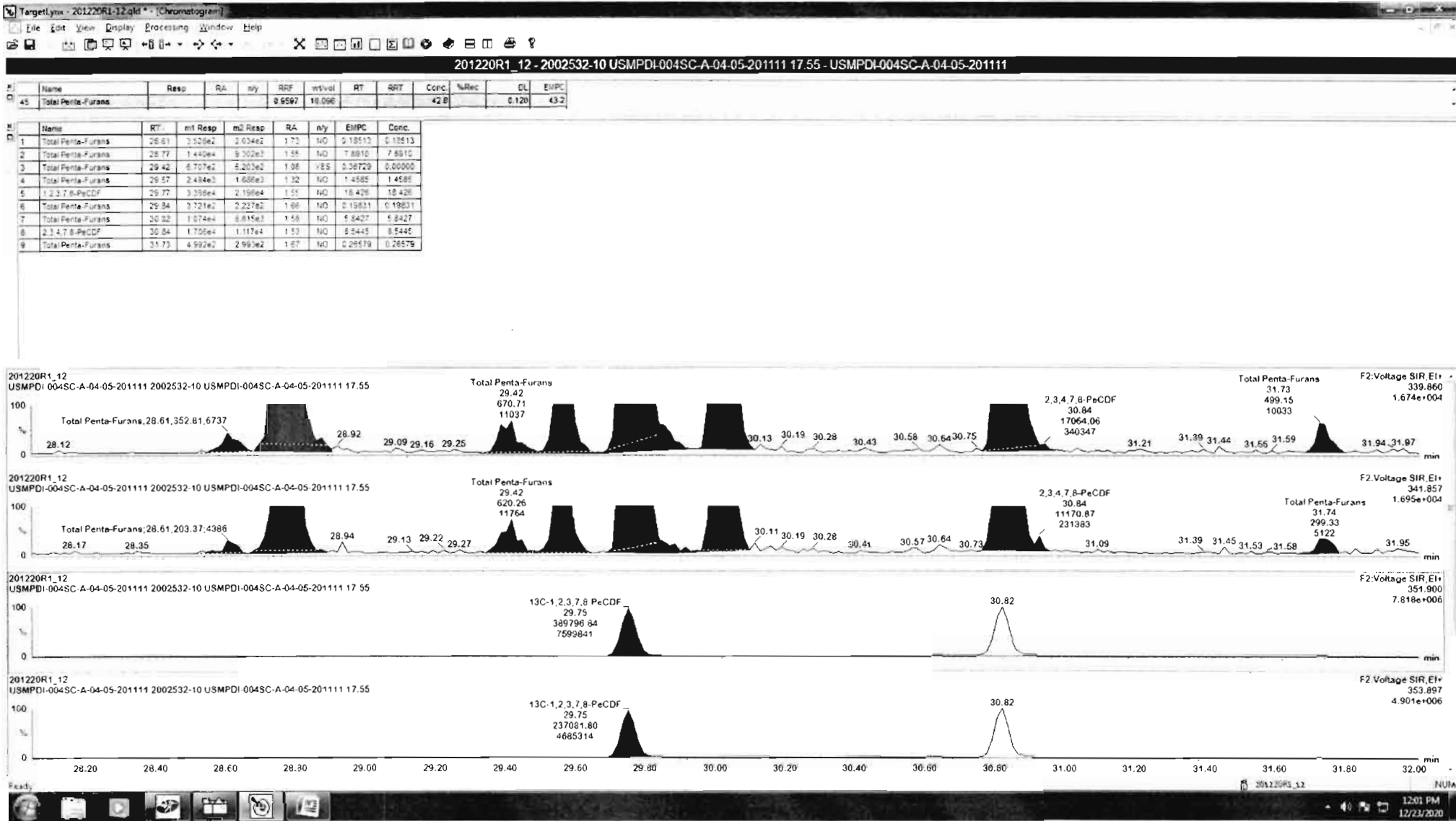
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DPE2

201220R1_12



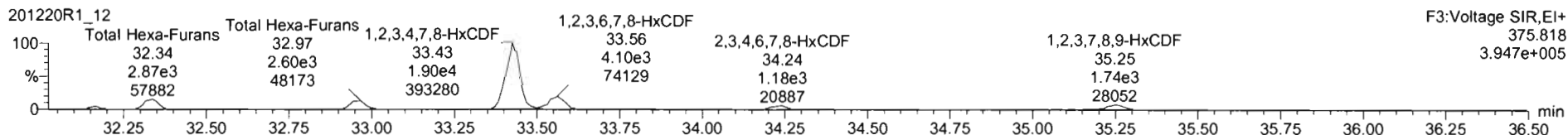
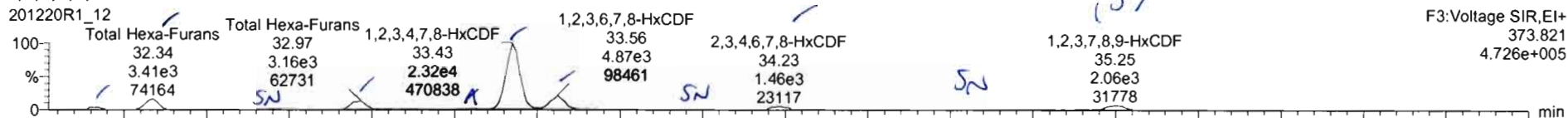


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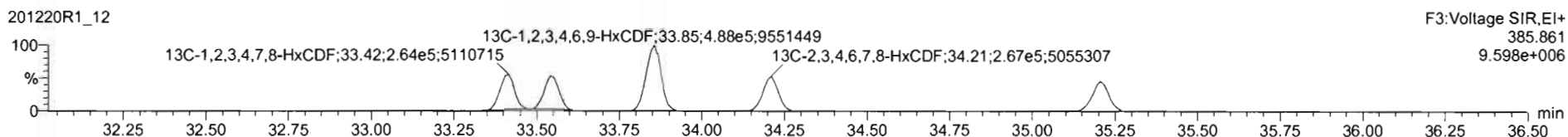
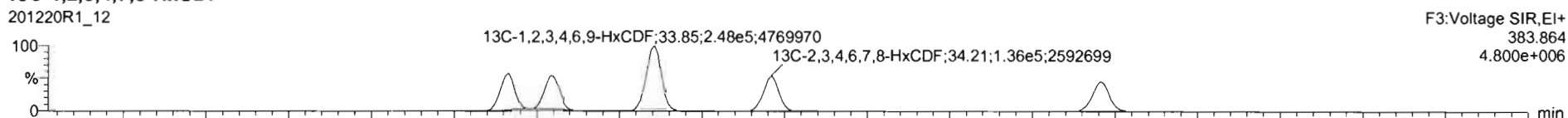
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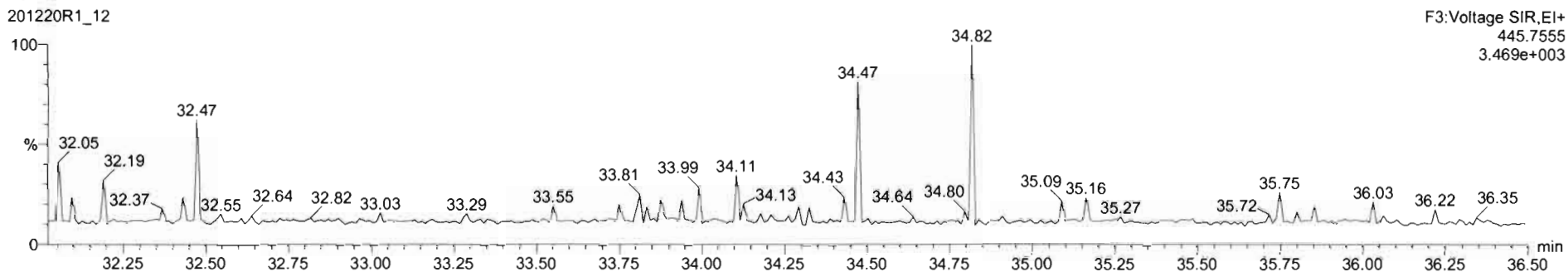
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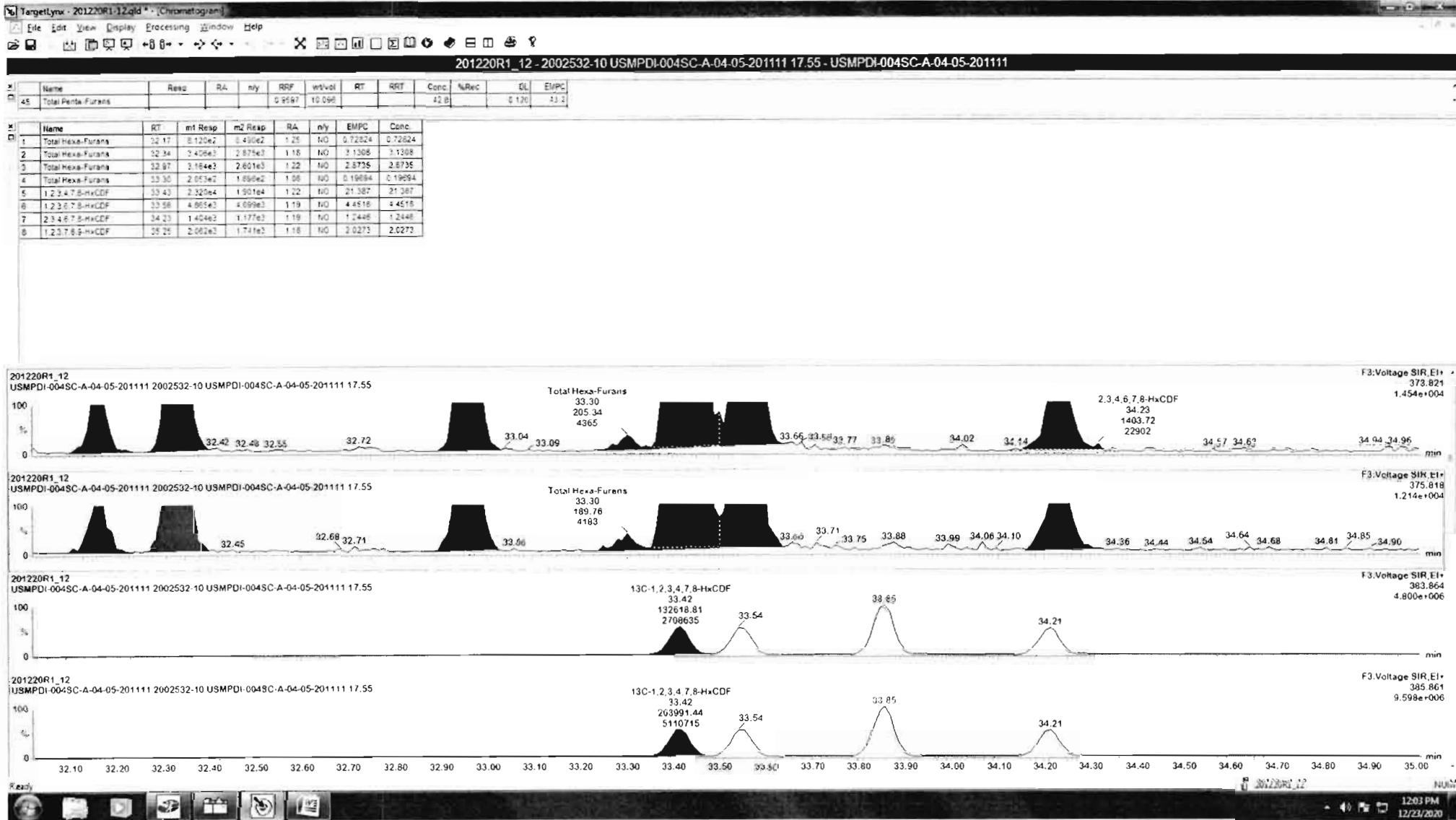


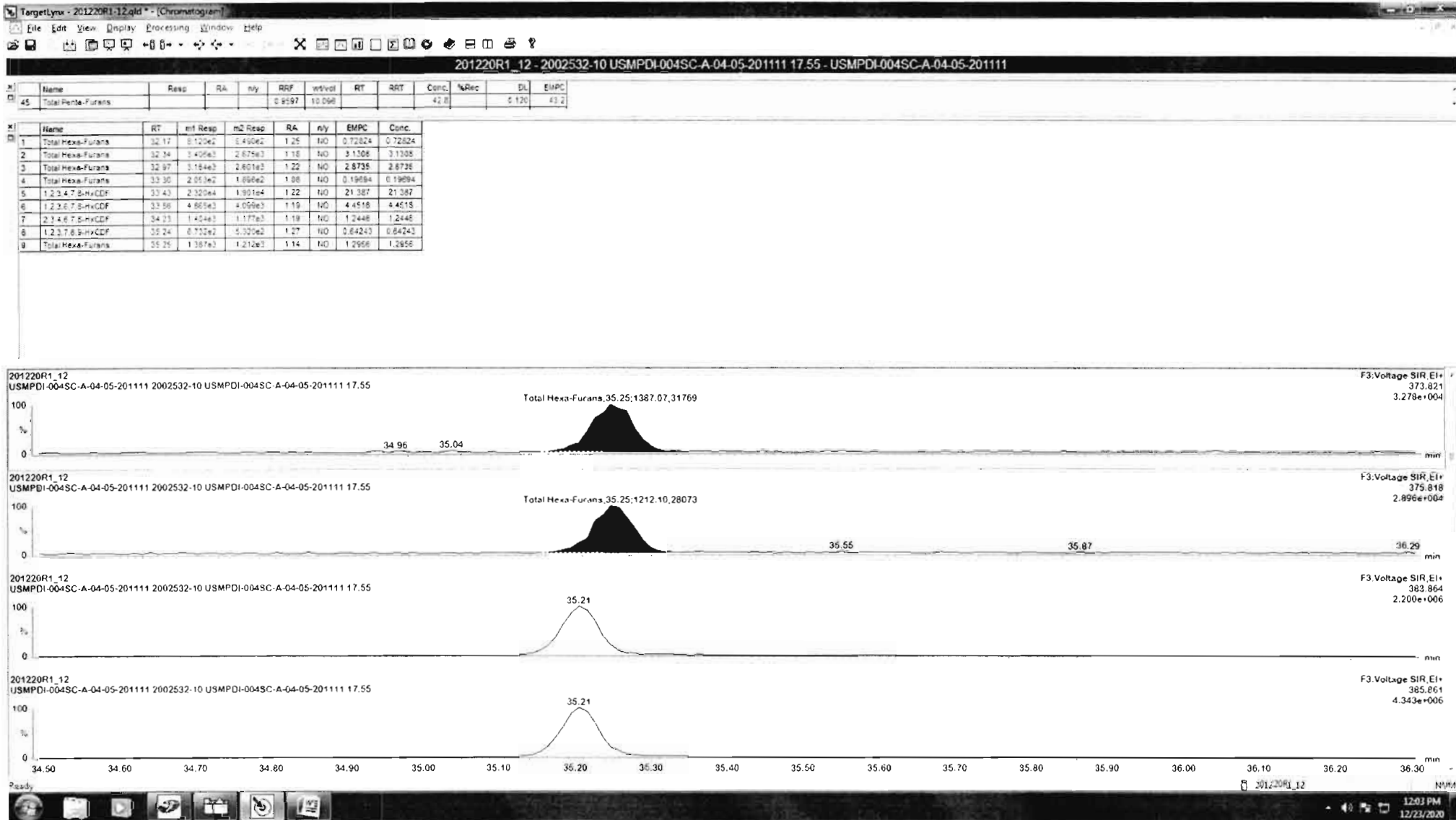
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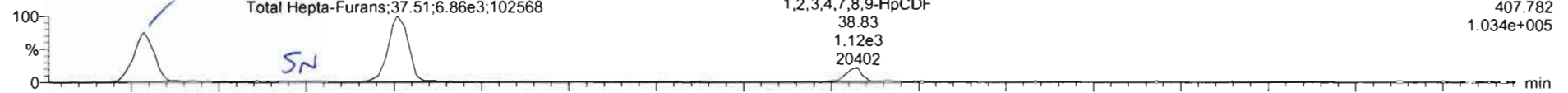
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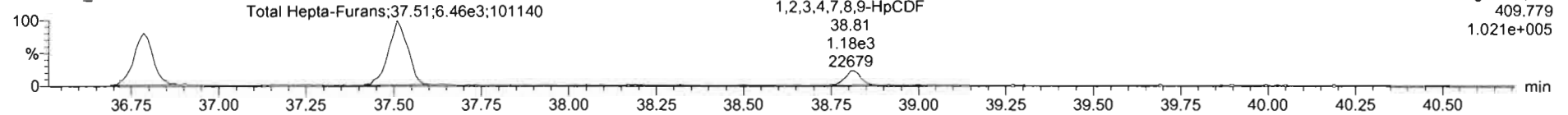
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1,2,3,4,6,7,8-HpCDF

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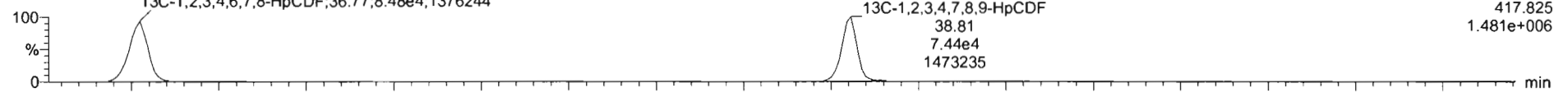


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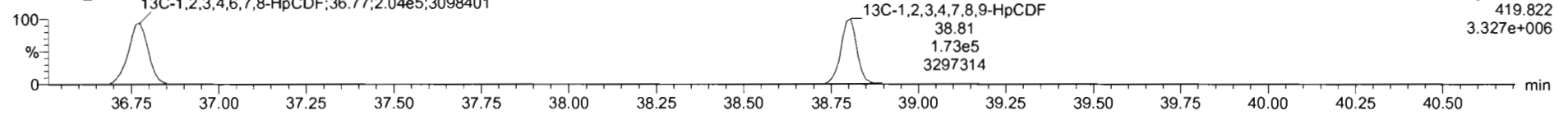


13C-1,2,3,4,6,7,8-HpCDF

201220R1_12

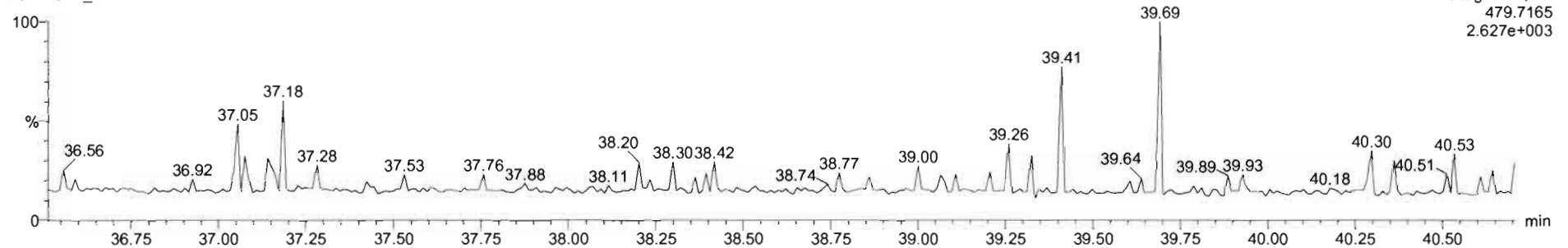


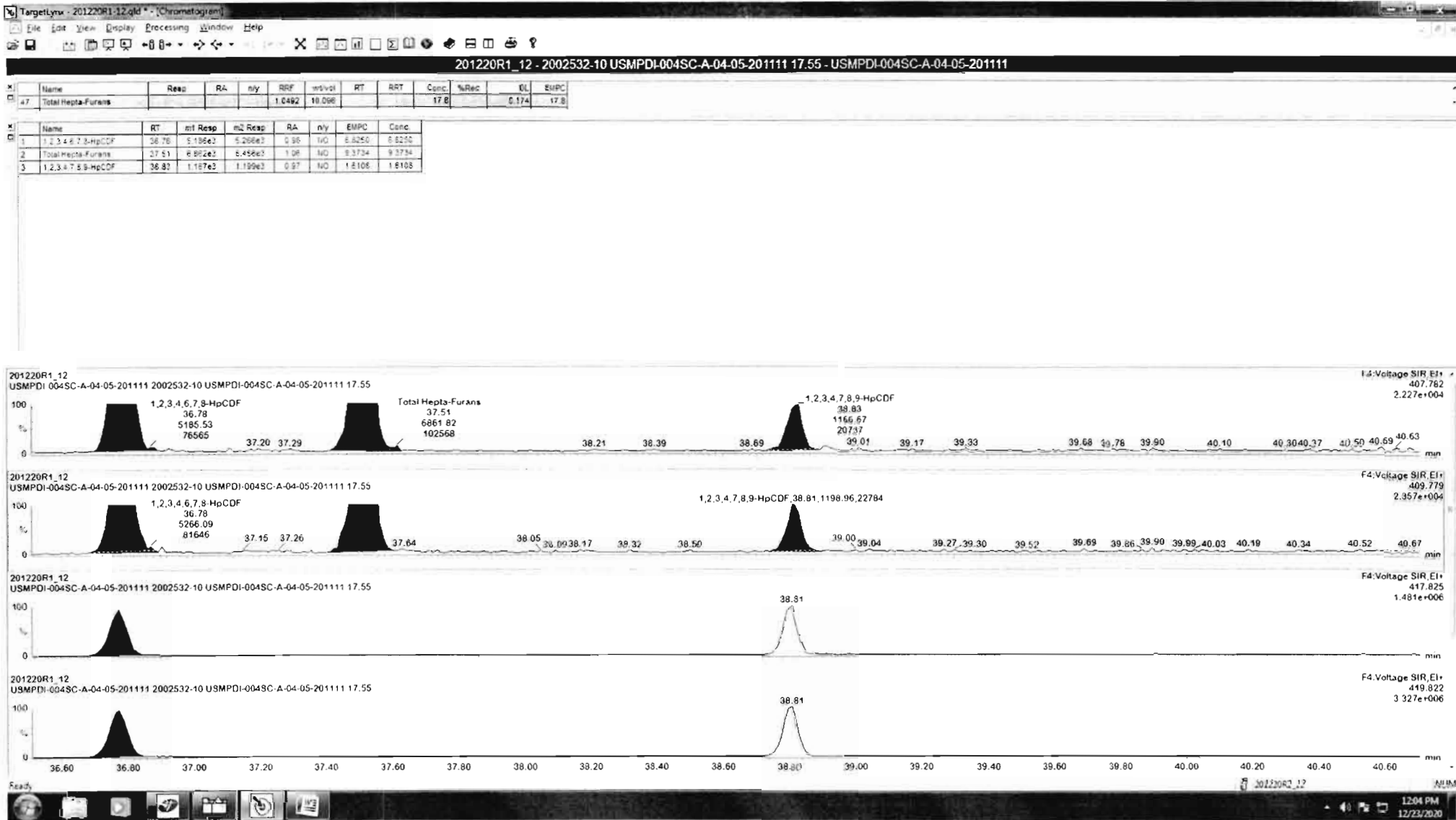
201220R1_12



DPE4

201220R1_12

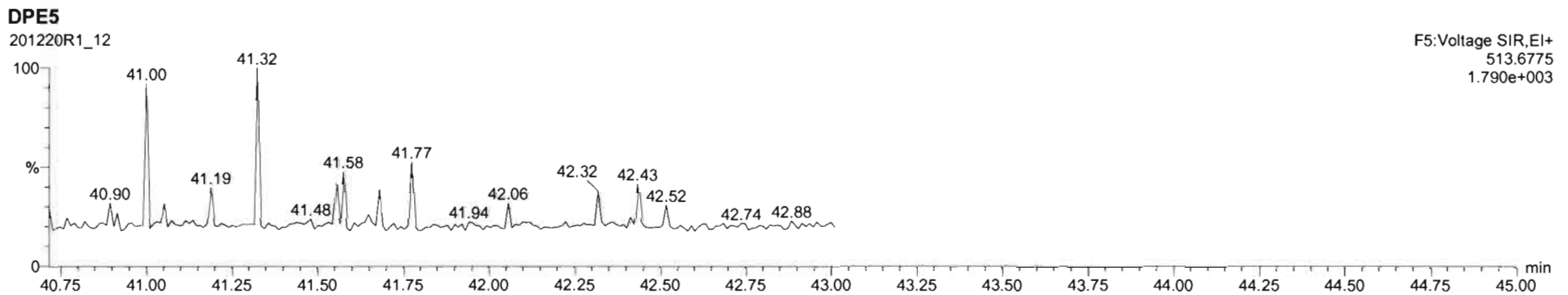
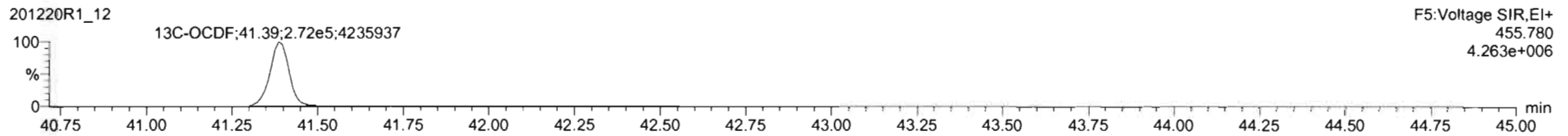
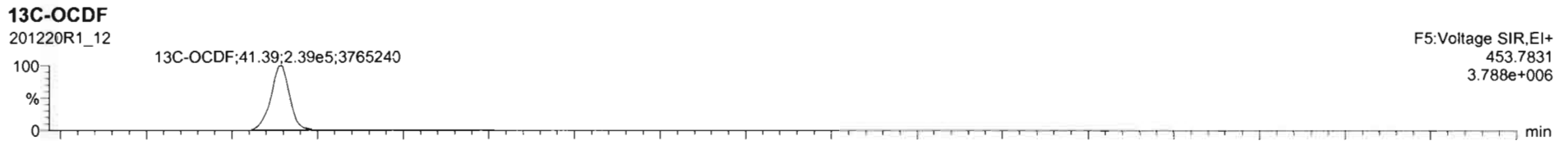
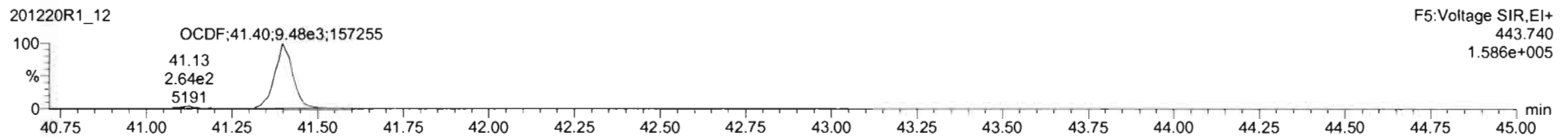
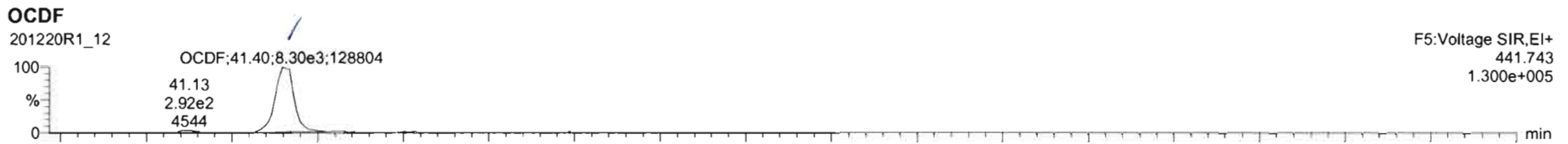




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Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

Name: 201220R1_12, Date: 20-Dec-2020, Time: 16:38:35, ID: 2002532-10 USMPDI-004SC-A-04-05-201111 17.55, Description: USMPDI-004SC-A-04-05-201111

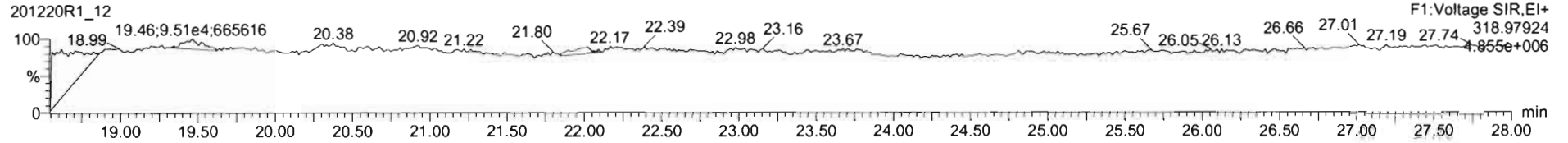


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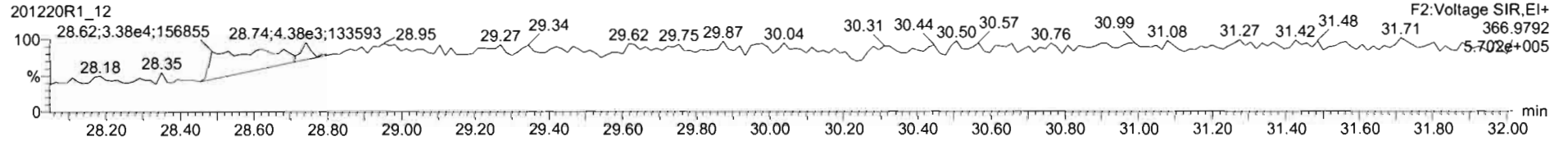
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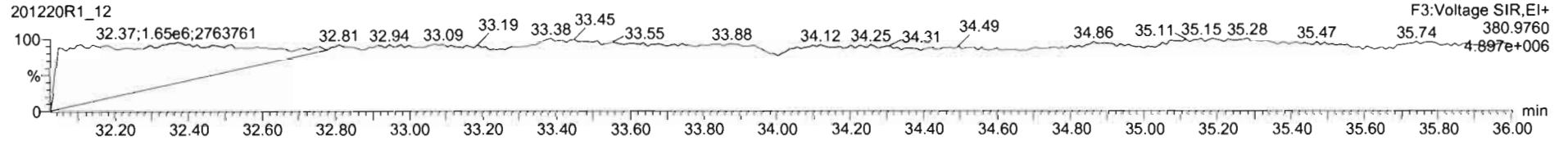
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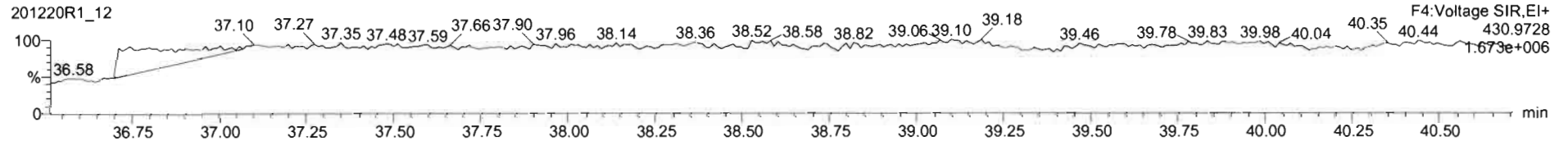
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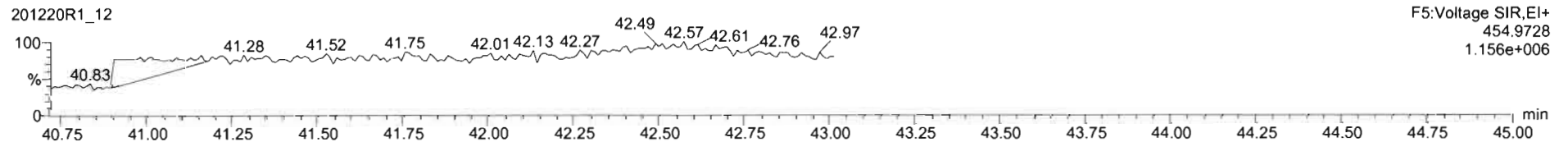
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\201220R1\201220R1-13.qld

Last Altered: Wednesday, December 23, 2020 12:27:03 PM Pacific Standard Time
Printed: Wednesday, December 23, 2020 12:27:27 PM Pacific Standard Time

GRB 12/23/2020

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

me 12/23/20

Name: 201220R1_13, Date: 20-Dec-2020, Time: 17:22:50, ID: 2002532-11 USMPDI-011SC-A-04-05-201111 15.7, Description: USMPDI-011SC-A-04-05-201111

#	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	1.64e3	0.60	YES	0.980	10.024	26.351	26.35	1.001	1.001	0.43846		0.0437	0.379
2	2 1,2,3,7,8-PeCDD	1.33e3	0.53	YES	0.932	10.024	31.048	31.03	1.001	1.001	0.45004		0.115	0.401
3	3 1,2,3,4,7,8-HxCDD	6.51e2	1.24	NO	1.02	10.024	34.347	34.33	1.001	1.000	0.28663		0.163	0.287
4	4 1,2,3,6,7,8-HxCDD	3.39e3	1.18	NO	0.902	10.024	34.462	34.46	1.001	1.001	1.5214		0.172	1.52
5	5 1,2,3,7,8,9-HxCDD	1.57e3	1.36	NO	0.954	10.024	34.724	34.73	1.000	1.001	0.68642		0.166	0.686
6	6 1,2,3,4,6,7,8-HpCDD	7.43e4	1.03	NO	0.918	10.024	38.211	38.21	1.000	1.000	40.914		0.670	40.9
7	7 OCDD	7.11e5	0.87	NO	0.866	10.024	41.123	41.13	1.000	1.000	555.64		0.595	556
8	8 2,3,7,8-TCDF	4.37e4	0.76	NO	0.848	10.024	25.627	25.65	1.000	1.001	10.247		0.105	10.2
9	9 1,2,3,7,8-PeCDF	5.07e4	1.65	NO	0.960	10.024	29.770	29.77	1.000	1.000	12.145		0.134	12.1
10	10 2,3,4,7,8-PeCDF	3.27e4	1.66	NO	1.07	10.024	30.844	30.84	1.001	1.000	7.1823		0.113	7.18
11	11 1,2,3,4,7,8-HxCDF	4.20e4	1.24	NO	0.986	10.024	33.425	33.44	1.000	1.001	14.945		0.108	14.9
12	12 1,2,3,6,7,8-HxCDF	1.09e4	1.21	NO	1.04	10.024	33.571	33.57	1.001	1.001	3.7552		0.106	3.76
13	13 2,3,4,6,7,8-HxCDF	3.70e3	1.24	NO	1.02	10.024	34.232	34.24	1.001	1.001	1.3494		0.118	1.35
14	14 1,2,3,7,8,9-HxCDF	2.21e3	1.12	NO	0.991	10.024	35.217	35.25	1.000	1.001	0.89398		0.145	0.894
15	15 1,2,3,4,6,7,8-HpCDF	2.15e4	0.98	NO	1.05	10.024	36.803	36.81	1.000	1.001	10.802		0.208	10.8
16	16 1,2,3,4,7,8,9-HpCDF	5.57e3	1.01	NO	1.18	10.024	38.828	38.83	1.000	1.000	2.8623		0.164	2.86
17	17 OCDF	4.32e4	0.88	NO	0.896	10.024	41.417	41.42	1.000	1.000	29.664		0.206	29.7
18	18 13C-2,3,7,8-TCDD	7.62e5	0.77	NO	1.06	10.024	26.323	26.32	1.030	1.030	200.22	100	0.149	
19	19 13C-1,2,3,7,8-PeCDD	6.34e5	0.63	NO	0.785	10.024	31.157	31.02	1.219	1.214	224.06	112	0.222	
20	20 13C-1,2,3,4,7,8-HxCDD	4.44e5	1.30	NO	0.621	10.024	34.315	34.33	1.014	1.014	208.71	105	0.455	
21	21 13C-1,2,3,6,7,8-HxCDD	4.93e5	1.28	NO	0.734	10.024	34.437	34.44	1.017	1.017	195.88	98.2	0.385	
22	22 13C-1,2,3,7,8,9-HxCDD	4.79e5	1.25	NO	0.723	10.024	34.722	34.71	1.026	1.025	193.48	97.0	0.391	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.95e5	1.05	NO	0.568	10.024	38.219	38.20	1.129	1.128	202.73	102	1.11	
24	24 13C-OCDD	5.90e5	0.91	NO	0.496	10.024	41.154	41.12	1.216	1.214	347.01	87.0	0.839	
25	25 13C-2,3,7,8-TCDF	1.00e6	0.78	NO	0.919	10.024	25.623	25.62	1.003	1.003	201.74	101	0.237	
26	26 13C-1,2,3,7,8-PeCDF	8.67e5	1.60	NO	0.715	10.024	29.869	29.77	1.169	1.165	224.01	112	0.401	
27	27 13C-2,3,4,7,8-PeCDF	8.52e5	1.59	NO	0.689	10.024	30.955	30.82	1.212	1.206	228.58	115	0.416	
28	28 13C-1,2,3,4,7,8-HxCDF	5.69e5	0.50	NO	0.873	10.024	33.422	33.42	0.987	0.987	190.09	95.3	0.561	
29	29 13C-1,2,3,6,7,8-HxCDF	5.59e5	0.50	NO	0.933	10.024	33.550	33.55	0.991	0.991	174.42	87.4	0.524	
30	30 13C-2,3,4,6,7,8-HxCDF	5.37e5	0.50	NO	0.843	10.024	34.217	34.21	1.011	1.011	185.65	93.0	0.581	
31	31 13C-1,2,3,7,8,9-HxCDF	4.99e5	0.51	NO	0.780	10.024	35.216	35.21	1.040	1.040	186.47	93.5	0.628	

Dataset: U:\VG12.PRO\Results\201220R1\201220R1-13.qld

Last Altered: Wednesday, December 23, 2020 12:27:03 PM Pacific Standard Time
Printed: Wednesday, December 23, 2020 12:27:27 PM Pacific Standard Time

Name: 201220R1_13, Date: 20-Dec-2020, Time: 17:22:50, ID: 2002532-11 USMPDI-011SC-A-04-05-201111 15.7, Description: USMPDI-011SC-A-04-05-201111

#	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	3.79e5	0.43	NO	0.726	10.024	36.790	36.78	1.087	1.087	152.06	76.2	0.632	
33	13C-1,2,3,4,7,8,9-HpCDF	3.30e5	0.43	NO	0.491	10.024	38.798	38.82	1.146	1.147	196.17	98.3	0.936	
34	13C-OCDF	6.49e5	0.87	NO	0.565	10.024	41.371	41.41	1.222	1.223	334.56	83.8	0.530	
35	37Cl-2,3,7,8-TCDD	3.53e5			1.22	10.024	26.318	26.33	1.030	1.031	80.363	101	0.0424	
36	13C-1,2,3,4-TCDD	7.20e5	0.78	NO	1.00	10.024	25.640	25.55	1.000	1.000	199.52	100	0.157	
37	13C-1,2,3,4-TCDF	1.08e6	0.79	NO	1.00	10.024	24.130	24.04	1.000	1.000	199.52	100	0.217	
38	13C-1,2,3,4,6,9-HxCDF	6.84e5	0.50	NO	1.00	10.024	33.920	33.85	1.000	1.000	199.52	100	0.490	
39	Total Tetra-Dioxins				0.980	10.024	24.620		0.000		1.3810		0.0437	1.86
40	Total Penta-Dioxins				0.932	10.024	29.960		0.000		1.5307		0.115	2.66
41	Total Hexa-Dioxins				0.902	10.024	33.635		0.000		13.877		0.177	13.9
42	Total Hepta-Dioxins				0.918	10.024	37.640		0.000		93.387		0.670	93.4
43	Total Tetra-Furans				0.848	10.024	23.610		0.000		37.351		0.105	37.8
44	1st Func. Penta-Furans				0.960	10.024	26.930		0.000		3.0886		0.0273	3.09
45	Total Penta-Furans				0.960	10.024	29.275		0.000		36.285		0.130	36.6
46	Total Hexa-Furans				1.02	10.024	33.555		0.000		33.723		0.117	33.7
47	Total Hepta-Furans				1.05	10.024	37.835		0.000		28.961		0.197	29.0

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201220R1\201220R1-13.qld

Last Altered: Wednesday, December 23, 2020 12:27:03 PM Pacific Standard Time

Printed: Wednesday, December 23, 2020 12:27:27 PM 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: 201220R1_13, Date: 20-Dec-2020, Time: 17:22:50, ID: 2002532-11 USMPDI-011SC-A-04-05-201111 15.7, Description: USMPDI-011SC-A-04-05-201111

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.49	1.349e4	1.894e4	1.198e3	1.478e3	0.81	NO	2.676e3	0.71415	0.71415	0.0437
2	Total Tetra-Dioxins	22.86	3.645e3	5.857e3	3.022e2	3.954e2	0.76	NO	6.976e2	0.18616	0.18616	0.0437
3	Total Tetra-Dioxins	23.41	2.456e3	2.617e3	1.270e2	1.533e2	0.83	NO	2.803e2	0.074807	0.074807	0.0437
4	Total Tetra-Dioxins	24.47	2.534e3	3.082e3	1.995e2	2.171e2	0.92	YES	0.000e0	0.00000	0.10256	0.0437
5	Total Tetra-Dioxins	24.69	5.120e3	5.279e3	2.609e2	3.753e2	0.70	NO	6.362e2	0.16978	0.16978	0.0437
6	Total Tetra-Dioxins	26.05	4.864e3	7.423e3	3.620e2	5.227e2	0.69	NO	8.847e2	0.23611	0.23611	0.0437
7	2,3,7,8-TCDD	26.35	9.390e3	1.586e4	6.173e2	1.026e3	0.60	YES	1.643e3	0.00000	0.37867	0.0437

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	1.397e4	2.449e4	9.825e2	1.559e3	0.63	NO	2.541e3	0.85761	0.85761	0.115
2	Total Penta-Dioxins	29.25	2.444e3	5.276e3	1.279e2	2.983e2	0.43	YES	0.000e0	0.00000	0.11165	0.115
3	Total Penta-Dioxins	29.54	2.336e3	1.062e4	1.228e2	5.401e2	0.23	YES	0.000e0	0.00000	0.10726	0.115
4	Total Penta-Dioxins	29.77	1.803e4	1.677e4	8.457e2	9.303e2	0.91	YES	0.000e0	0.00000	0.51177	0.115
5	Total Penta-Dioxins	29.96	5.779e3	6.957e3	2.240e2	3.503e2	0.64	NO	5.743e2	0.19383	0.19383	0.115
6	Total Penta-Dioxins	30.01	4.163e3	1.064e4	1.898e2	3.342e2	0.57	NO	5.239e2	0.17683	0.17683	0.115
7	Total Penta-Dioxins	30.23	6.932e3	7.451e3	3.683e2	5.277e2	0.70	NO	8.960e2	0.30241	0.30241	0.115
8	1,2,3,7,8-PeCDD	31.03	8.108e3	1.559e4	4.595e2	8.739e2	0.53	YES	1.333e3	0.00000	0.40124	0.115

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Dataset: U:\VG12.PRO\Results\201220R1\201220R1-13.qld

Last Altered: Wednesday, December 23, 2020 12:27:03 PM Pacific Standard Time

Printed: Wednesday, December 23, 2020 12:27:27 PM Pacific Standard Time

Name: 201220R1_13, Date: 20-Dec-2020, Time: 17:22:50, ID: 2002532-11 USMPDI-011SC-A-04-05-201111 15.7, Description: USMPDI-011SC-A-04-05-201111

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	1.168e5	1.028e5	5.885e3	5.069e3	1.16	NO	1.095e4	5.1297	5.1297	0.177
2	Total Hexa-Dioxins	33.30	2.107e4	1.608e4	1.007e3	7.669e2	1.31	NO	1.774e3	0.83053	0.83053	0.177
3	Total Hexa-Dioxins	33.59	8.432e4	6.546e4	5.970e3	4.548e3	1.31	NO	1.052e4	4.9255	4.9255	0.177
4	Total Hexa-Dioxins	33.67	8.183e3	5.066e3	3.487e2	3.076e2	1.13	NO	6.563e2	0.30731	0.30731	0.177
5	1,2,3,4,7,8-HxCDD	34.33	8.361e3	4.608e3	3.605e2	2.903e2	1.24	NO	6.508e2	0.28663	0.28663	0.163
6	1,2,3,6,7,8-HxCDD	34.46	3.497e4	2.670e4	1.836e3	1.556e3	1.18	NO	3.392e3	1.5214	1.5214	0.172
7	Total Hexa-Dioxins	34.61	3.978e3	4.388e3	2.272e2	1.778e2	1.28	NO	4.050e2	0.18965	0.18965	0.177
8	1,2,3,7,8,9-HxCDD	34.73	1.671e4	9.439e3	9.077e2	6.659e2	1.36	NO	1.574e3	0.68642	0.68642	0.166

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.18	6.885e5	6.742e5	4.795e4	4.732e4	1.01	NO	9.527e4	52.473	52.473	0.670
2	1,2,3,4,6,7,8-HpCDD	38.21	6.833e5	6.601e5	3.772e4	3.656e4	1.03	NO	7.428e4	40.914	40.914	0.670

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201220R1\201220R1-13.qld

Last Altered: Wednesday, December 23, 2020 12:27:03 PM Pacific Standard Time

Printed: Wednesday, December 23, 2020 12:27:27 PM Pacific Standard Time

Name: 201220R1_13, Date: 20-Dec-2020, Time: 17:22:50, ID: 2002532-11 USMPDI-011SC-A-04-05-201111 15.7, Description: USMPDI-011SC-A-04-05-201111

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	3.735e3	5.121e3	3.351e2	4.006e2	0.84	NO	7.357e2	0.17248	0.17248	0.105
2	Total Tetra-Furans	20.77	6.816e3	7.593e3	5.045e2	6.788e2	0.74	NO	1.183e3	0.27745	0.27745	0.105
3	Total Tetra-Furans	21.60	2.901e4	3.550e4	2.743e3	3.584e3	0.77	NO	6.327e3	1.4833	1.4833	0.105
4	Total Tetra-Furans	21.96	3.723e3	6.600e3	3.881e2	5.453e2	0.71	NO	9.334e2	0.21884	0.21884	0.105
5	Total Tetra-Furans	22.11	7.465e3	8.357e3	8.030e2	7.494e2	1.07	YES	0.000e0	0.00000	0.31101	0.105
6	Total Tetra-Furans	22.19	4.454e3	5.702e3	3.289e2	4.575e2	0.72	NO	7.864e2	0.18438	0.18438	0.105
7	Total Tetra-Furans	22.53	6.354e4	8.581e4	6.218e3	8.394e3	0.74	NO	1.461e4	3.4258	3.4258	0.105
8	Total Tetra-Furans	23.04	2.427e4	2.916e4	1.942e3	2.581e3	0.75	NO	4.523e3	1.0606	1.0606	0.105
9	Total Tetra-Furans	23.16	6.257e3	5.862e3	3.897e2	4.633e2	0.84	NO	8.529e2	0.19998	0.19998	0.105
10	Total Tetra-Furans	23.38	1.799e4	1.876e4	1.201e3	1.476e3	0.81	NO	2.678e3	0.62784	0.62784	0.105
11	Total Tetra-Furans	23.81	2.483e3	3.908e3	1.978e2	2.931e2	0.68	NO	0.000e0	0.00000	0.11509	0.105
12	Total Tetra-Furans	23.92	3.993e3	5.601e3	3.056e2	4.274e2	0.71	NO	7.330e2	0.17185	0.17185	0.105
13	Total Tetra-Furans	24.13	7.980e4	9.721e4	9.094e3	1.201e4	0.76	NO	2.110e4	4.9470	4.9470	0.105
14	Total Tetra-Furans	24.62	2.271e5	3.145e5	1.618e4	2.202e4	0.73	NO	3.820e4	8.9575	8.9575	0.105
15	Total Tetra-Furans	24.96	1.038e4	1.506e4	7.331e2	8.838e2	0.83	NO	1.617e3	0.37909	0.37909	0.105
16	Total Tetra-Furans	25.06	8.101e3	9.895e3	5.123e2	5.888e2	0.87	NO	1.101e3	0.25817	0.25817	0.105
17	Total Tetra-Furans	25.37	3.499e3	4.924e3	2.070e2	2.883e2	0.72	NO	4.953e2	0.11613	0.11613	0.105
18	Total Tetra-Furans	25.52	7.096e4	1.066e5	4.642e3	6.736e3	0.69	NO	1.138e4	2.6679	2.6679	0.105
19	2,3,7,8-TCDF	25.65	2.864e5	3.707e5	1.890e4	2.480e4	0.76	NO	4.370e4	10.247	10.247	0.105
20	Total Tetra-Furans	25.93	1.719e4	1.887e4	1.260e3	1.445e3	0.87	NO	2.705e3	0.63424	0.63424	0.105
21	Total Tetra-Furans	26.23	4.604e3	6.875e3	2.874e2	4.094e2	0.70	NO	6.968e2	0.16337	0.16337	0.105
22	Total Tetra-Furans	27.15	4.011e3	5.240e3	2.359e2	3.246e2	0.73	NO	5.605e2	0.13141	0.13141	0.105
23	Total Tetra-Furans	27.37	5.476e3	2.529e3	3.155e2	1.650e2	1.91	YES	0.000e0	0.00000	0.068475	0.105
24	Total Tetra-Furans	27.53	3.545e4	4.212e4	1.934e3	2.445e3	0.79	NO	4.378e3	1.0266	1.0266	0.105

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	1.358e5	8.434e4	7.678e3	5.090e3	1.51	NO	1.277e4	3.0886	3.0886	0.0273

Vista Analytical Laboratory

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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	1.812e4	1.012e4	9.888e2	5.779e2	1.71	NO	1.567e3	0.37897	0.37897	0.130
2	Total Penta-Furans	28.79	3.227e5	1.826e5	2.174e4	1.298e4	1.68	NO	3.472e4	8.3979	8.3979	0.130
3	Total Penta-Furans	29.41	8.644e4	5.476e4	5.225e3	3.032e3	1.72	NO	8.257e3	1.9973	1.9973	0.130
4	Total Penta-Furans	29.57	8.815e4	6.171e4	4.393e3	3.162e3	1.39	NO	7.555e3	1.8276	1.8276	0.130
5	1,2,3,7,8-PeCDF	29.77	5.877e5	3.661e5	3.155e4	1.910e4	1.65	NO	5.065e4	12.145	12.145	0.134
6	Total Penta-Furans	29.84	1.438e4	6.043e3	3.363e2	2.069e2	1.63	NO	5.432e2	0.13140	0.13140	0.130
7	Total Penta-Furans	30.04	1.982e5	1.196e5	1.036e4	6.488e3	1.60	NO	1.685e4	4.0754	4.0754	0.130
8	Total Penta-Furans	30.66	1.011e4	4.350e3	3.882e2	2.294e2	1.69	NO	6.176e2	0.14940	0.14940	0.130
9	2,3,4,7,8-PeCDF	30.84	3.908e5	2.457e5	2.044e4	1.228e4	1.66	NO	3.272e4	7.1823	7.1823	0.113
10	Total Penta-Furans	31.74	2.003e4	1.150e4	9.808e2	5.376e2	1.82	YES	0.000e0	0.00000	0.33164	0.130

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.16	5.709e4	4.796e4	2.633e3	2.143e3	1.23	NO	4.777e3	1.7279	1.7279	0.117
2	Total Hexa-Furans	32.34	1.491e5	1.178e5	7.139e3	6.087e3	1.17	NO	1.323e4	4.7845	4.7845	0.117
3	Total Hexa-Furans	32.96	1.548e5	1.203e5	7.429e3	6.143e3	1.21	NO	1.357e4	4.9100	4.9100	0.117
4	Total Hexa-Furans	33.31	1.024e4	6.153e3	3.684e2	3.364e2	1.10	NO	7.048e2	0.25498	0.25498	0.117
5	1,2,3,4,7,8-HxCDF	33.44	4.366e5	3.464e5	2.325e4	1.878e4	1.24	NO	4.203e4	14.945	14.945	0.108
6	1,2,3,6,7,8-HxCDF	33.57	1.133e5	8.416e4	5.966e3	4.947e3	1.21	NO	1.091e4	3.7552	3.7552	0.106
7	2,3,4,6,7,8-HxCDF	34.24	3.227e4	2.584e4	2.049e3	1.654e3	1.24	NO	3.702e3	1.3494	1.3494	0.118
8	1,2,3,7,8,9-HxCDF	35.25	3.422e4	3.129e4	1.169e3	1.045e3	1.12	NO	2.214e3	0.89398	0.89398	0.145
9	Total Hexa-Furans	35.26	4.403e4	3.692e4	1.681e3	1.365e3	1.23	NO	3.046e3	1.1019	1.1019	0.117

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	1.611e5	1.528e5	1.066e4	1.085e4	0.98	NO	2.151e4	10.802	10.802	0.208
2	Total Hepta-Furans	37.53	2.092e5	2.157e5	1.438e4	1.414e4	1.02	NO	2.852e4	15.298	15.298	0.197
3	1,2,3,4,7,8,9-HpCDF	38.83	5.289e4	4.751e4	2.800e3	2.772e3	1.01	NO	5.572e3	2.8623	2.8623	0.164

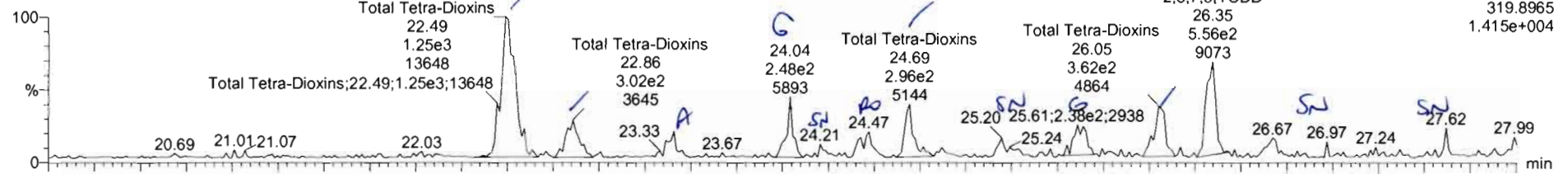
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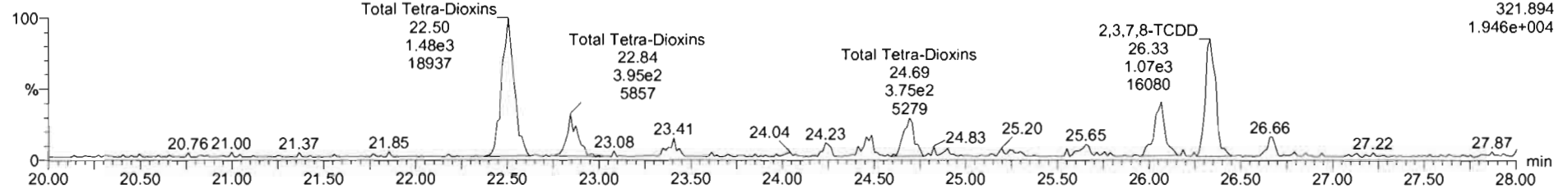
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2,3,7,8-TCDD

201220R1_13

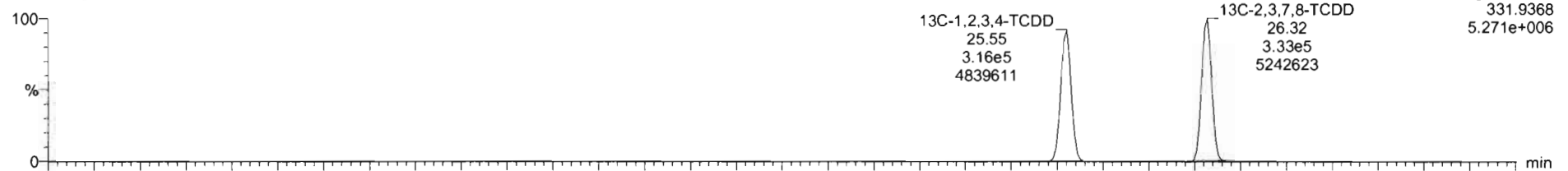


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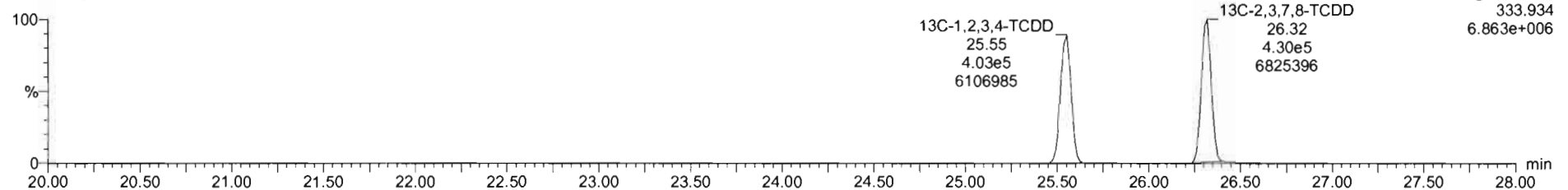


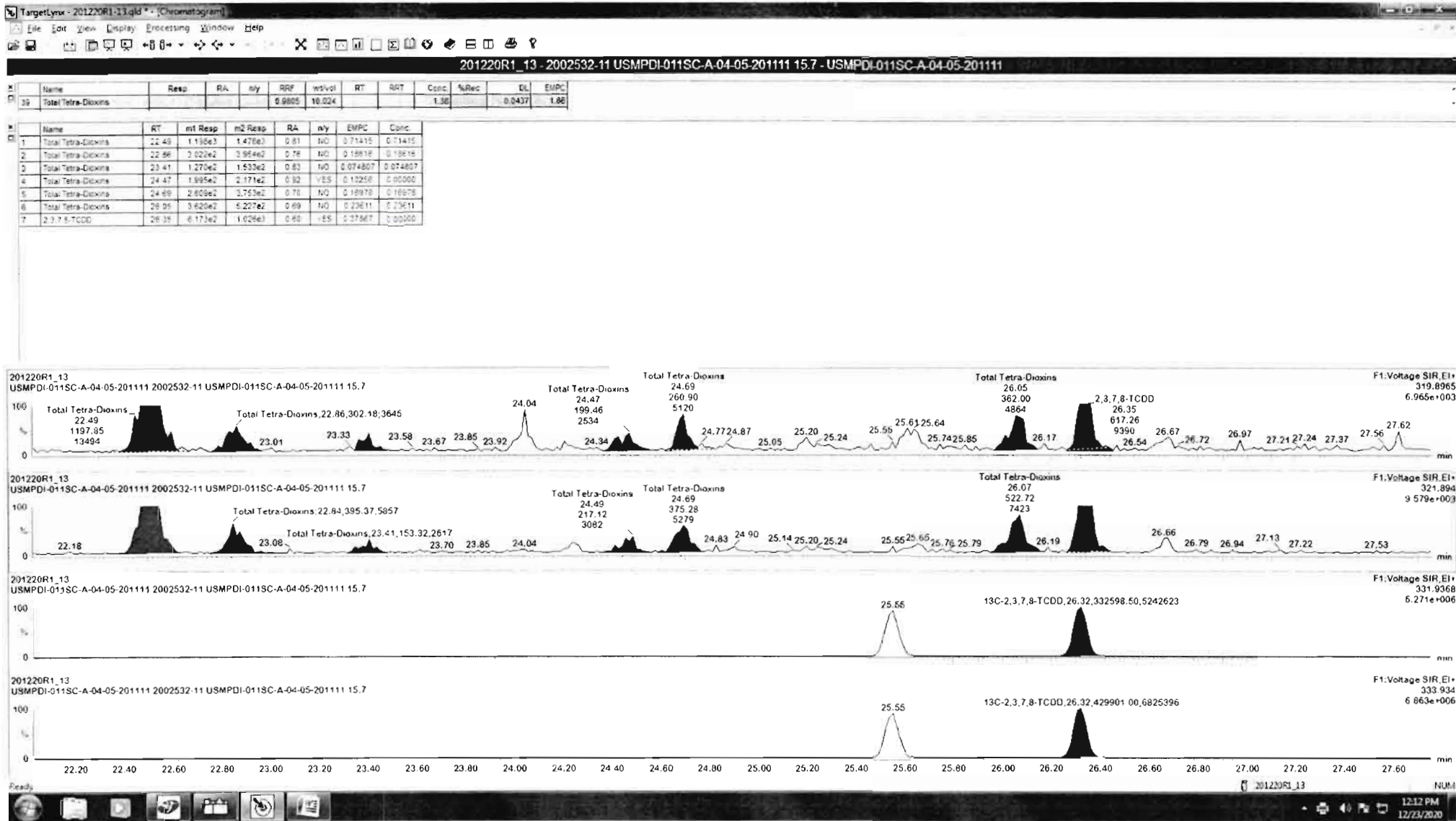
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201220R1_13



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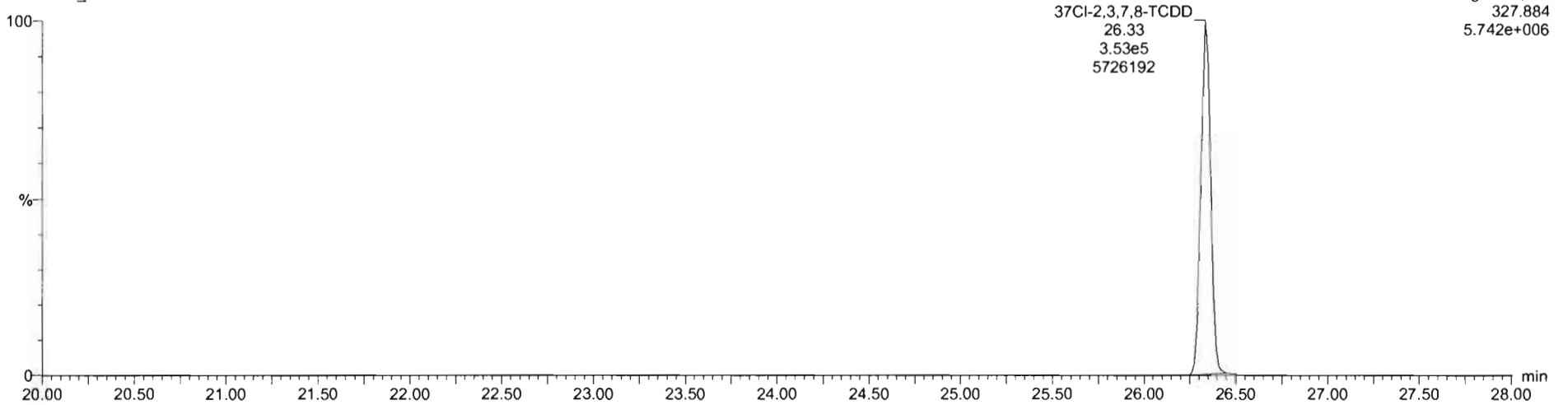
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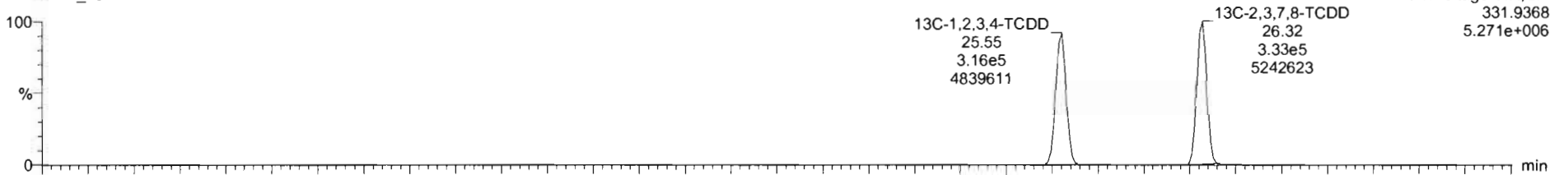
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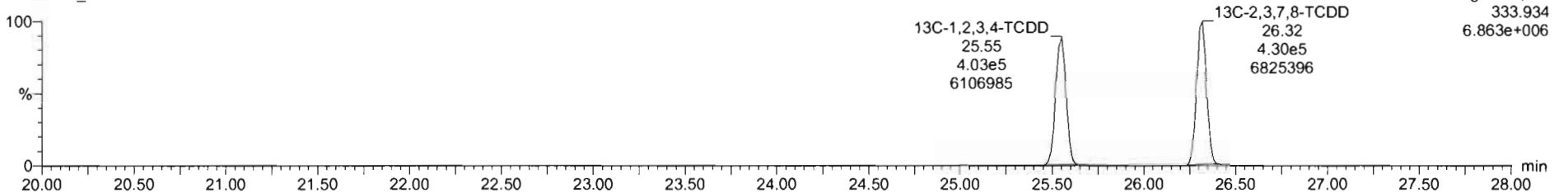


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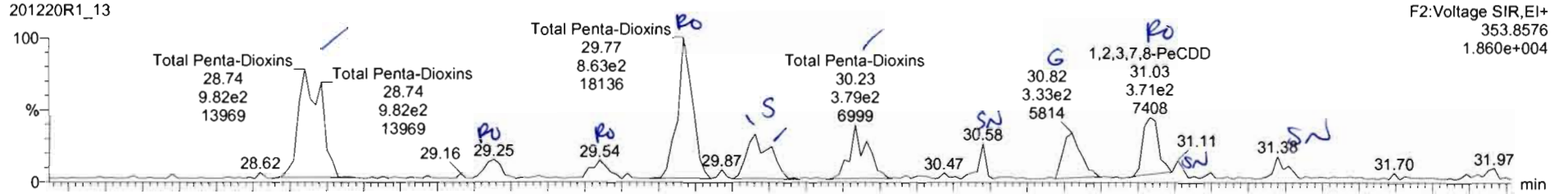
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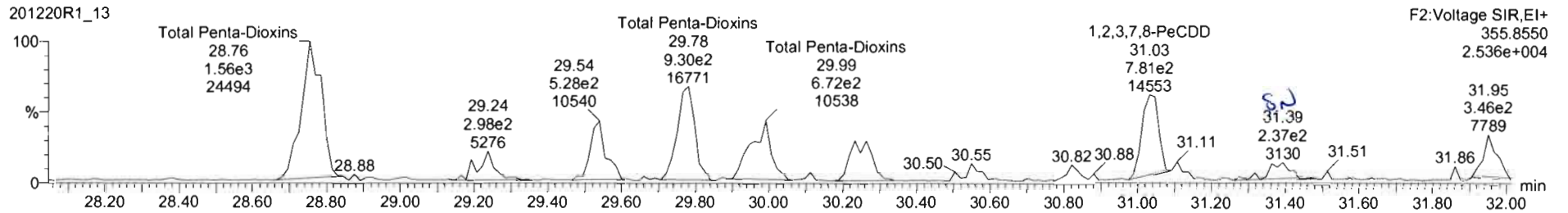
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1,2,3,7,8-PeCDD

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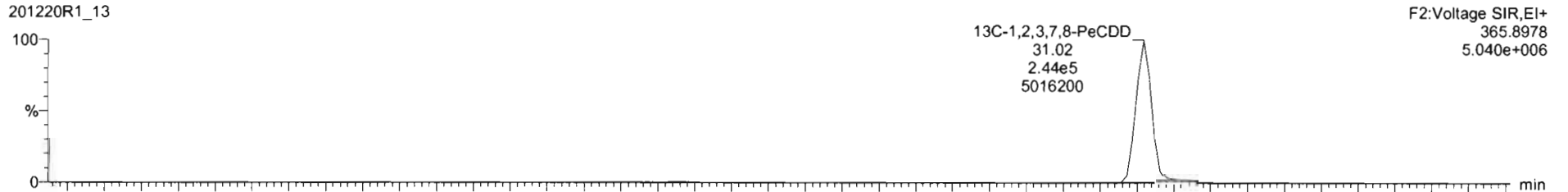


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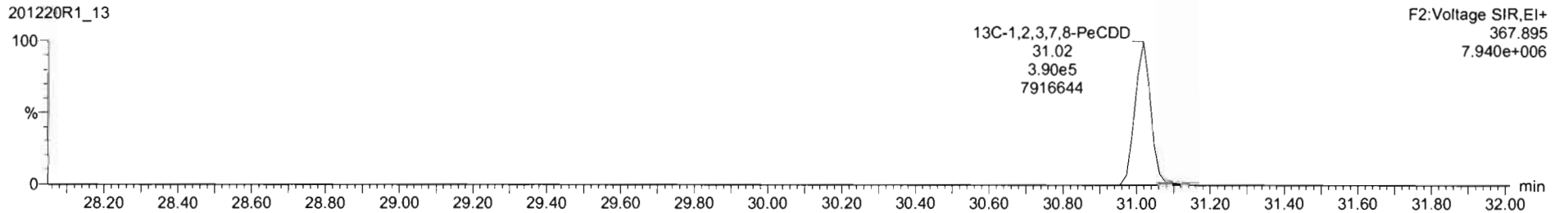


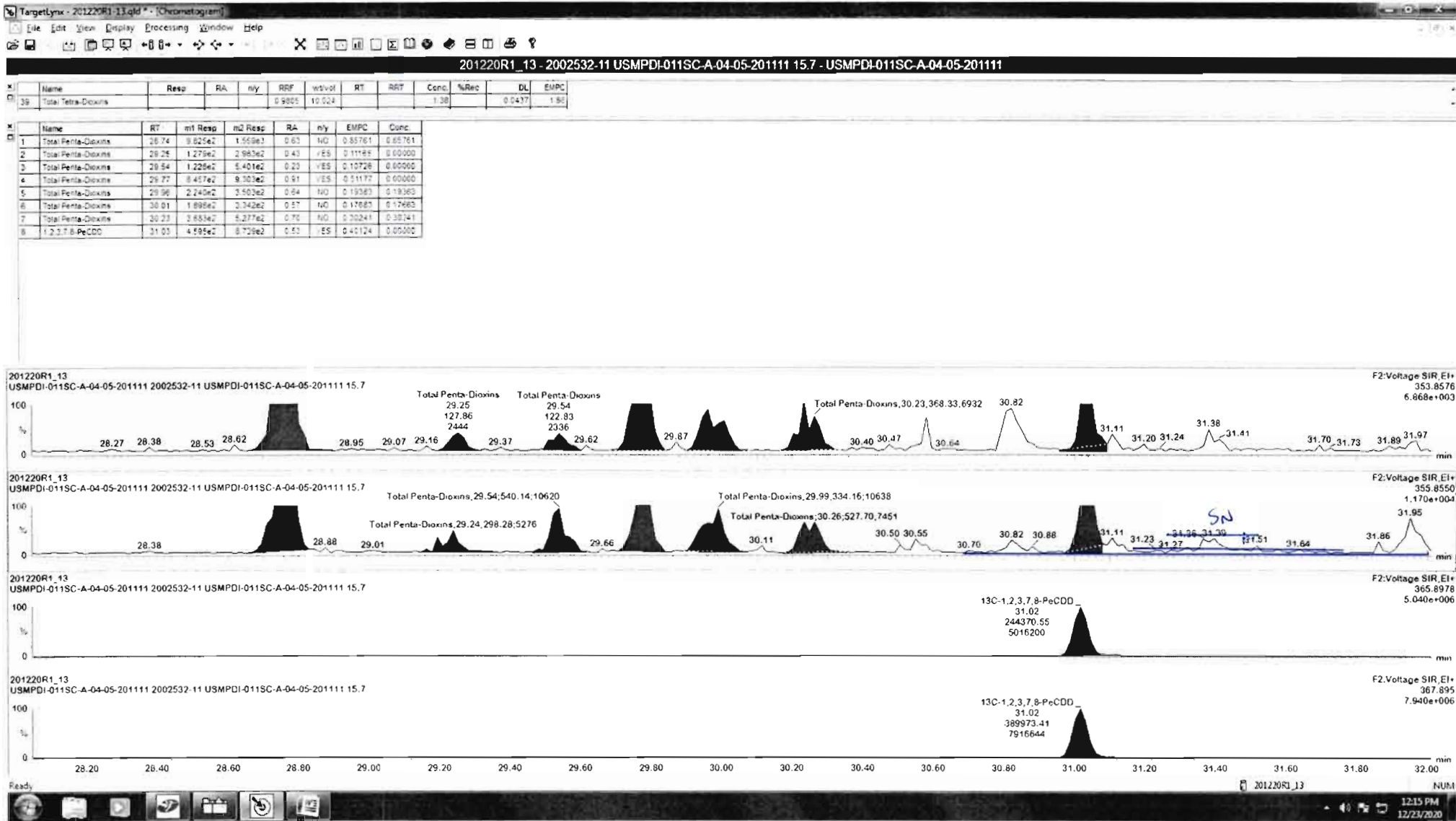
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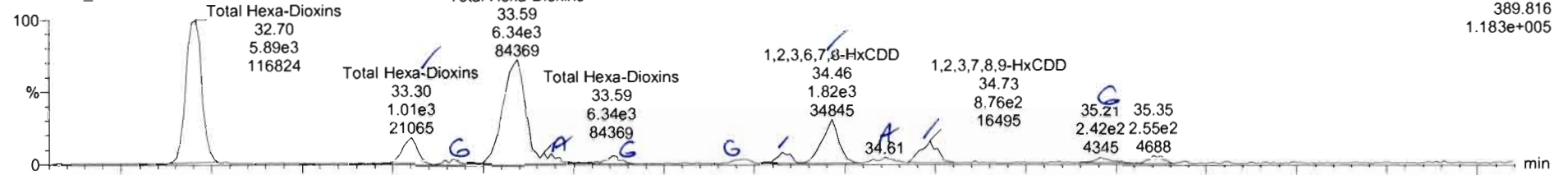
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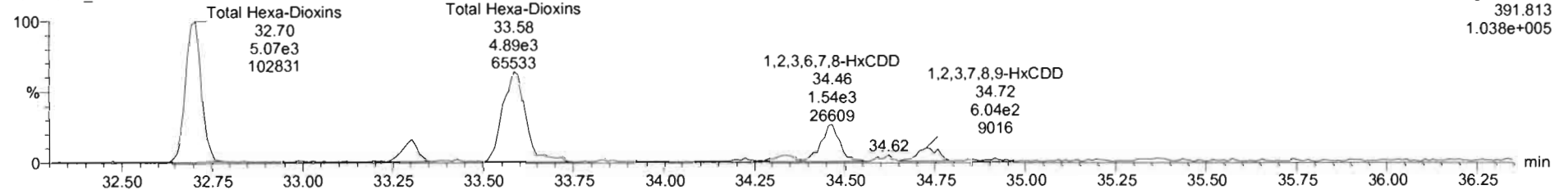
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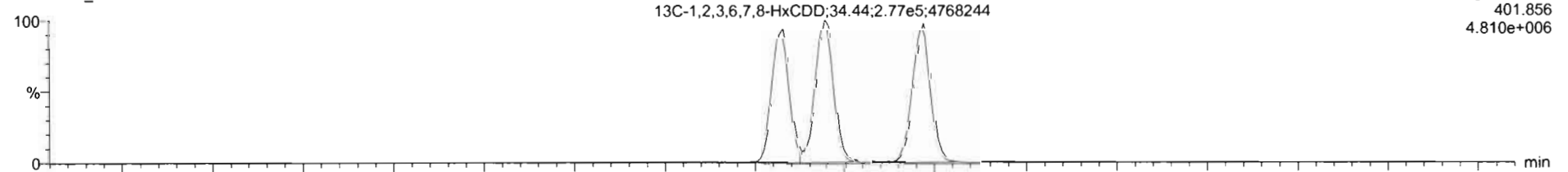


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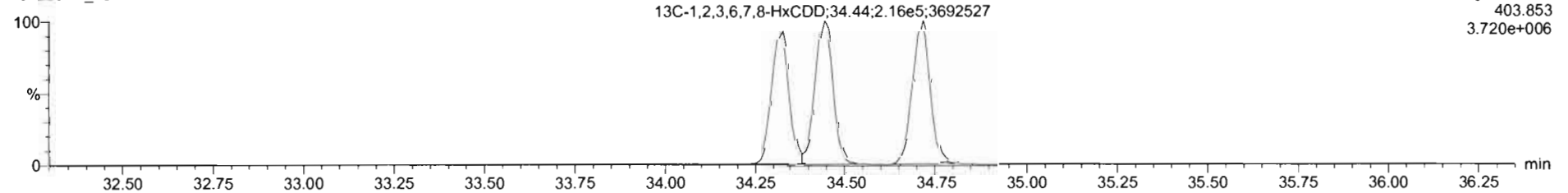


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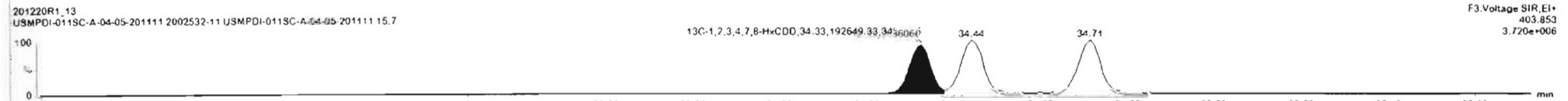
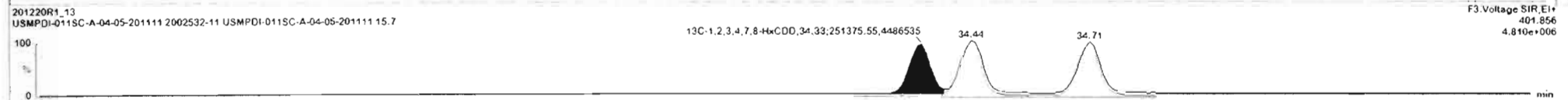
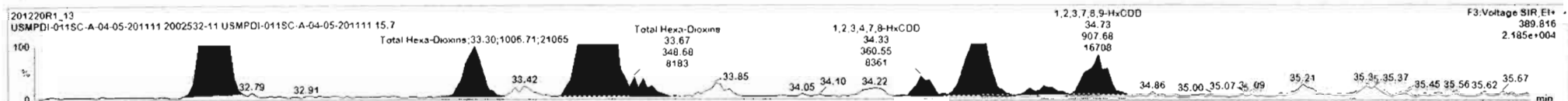


201220R1_13



Name	Resp	RA	nly	RF	wtval	RT	RRT	Conc	%Rec	DL	EMPC
#1 Total Hexa-Dioxins				6.9825	10.024			13.9		6.177	13.5

Name	RT	Int Resp	Int Resp	RA	nly	EMPC	Conc
1 Total Hexa-Dioxins	32.70	5.851e3	5.069e2	1.16	NO	0.1297	5.1297
2 Total Hexa-Dioxins	33.20	1.007e3	7.669e2	1.31	NO	0.83053	0.83053
3 Total Hexa-Dioxins	33.59	5.970e3	4.548e2	1.31	NO	4.9255	4.9255
4 Total Hexa-Dioxins	33.67	3.487e2	3.079e2	1.13	NO	0.00731	0.00731
5 1,2,3,4,7,8-HxCDD	34.33	3.805e2	2.901e2	1.24	NO	0.29863	0.29863
6 1,2,3,6,7,8-HxCDD	34.48	1.806e2	1.656e2	1.16	NO	1.5214	1.5214
7 Total Hexa-Dioxins	34.61	2.272e2	1.778e2	1.28	NO	0.18965	0.18965
8 1,2,3,7,8,9-HxCDD	34.73	9.577e2	6.959e2	1.30	NO	0.69642	0.69642



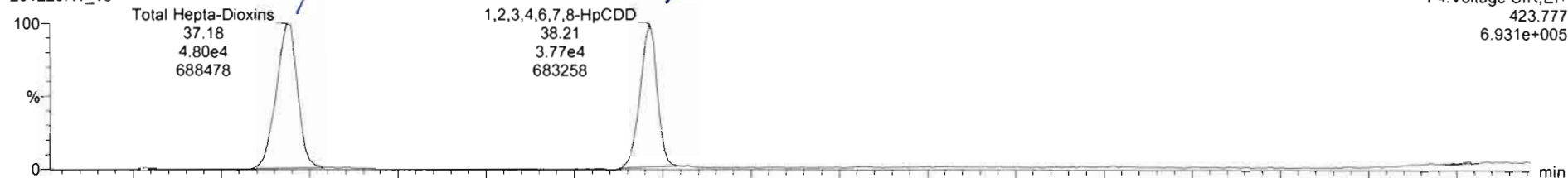
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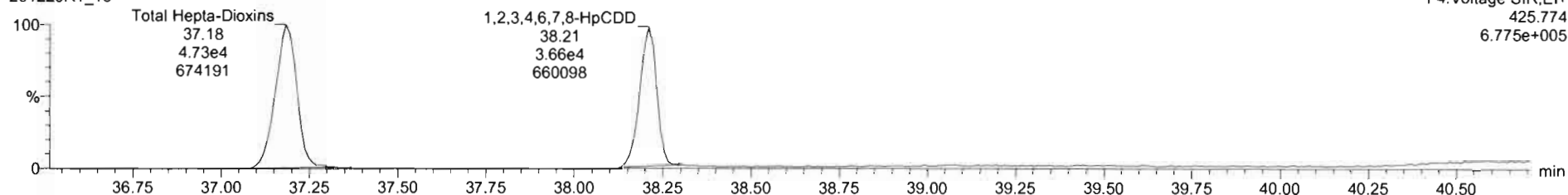
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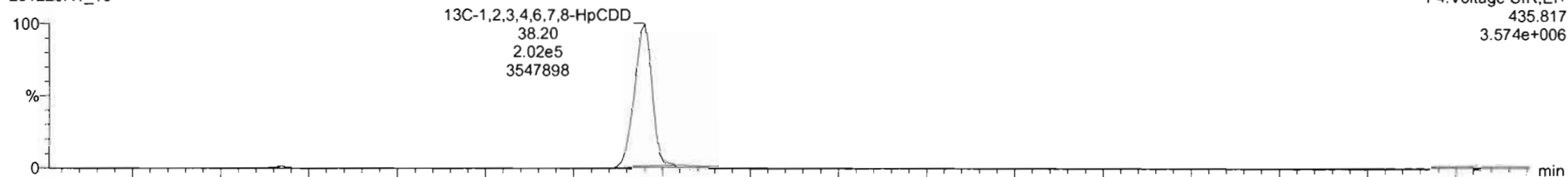


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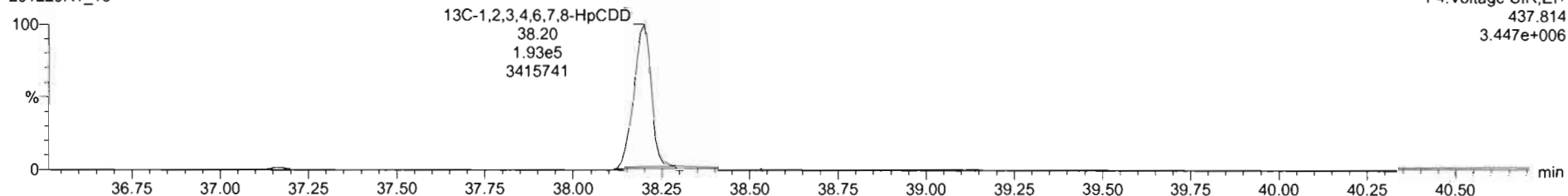


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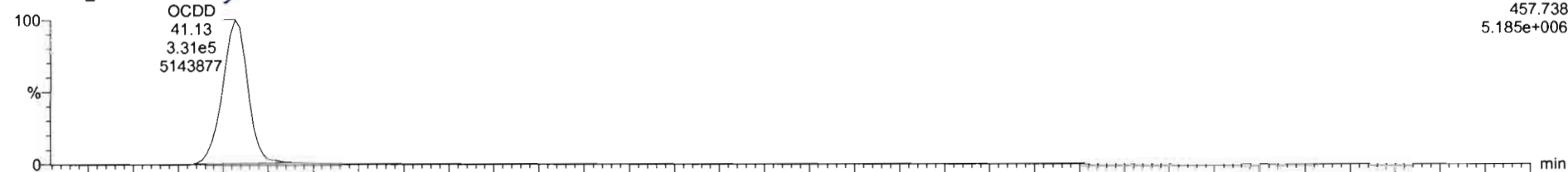
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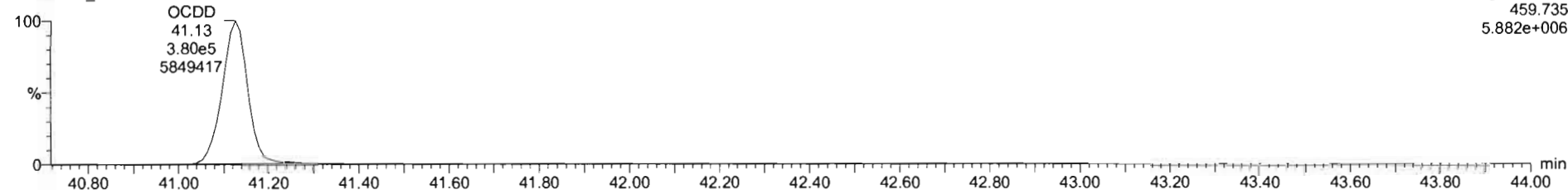
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OCDD

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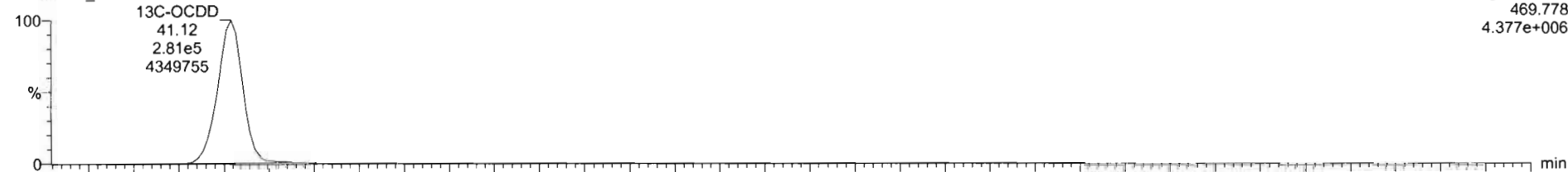


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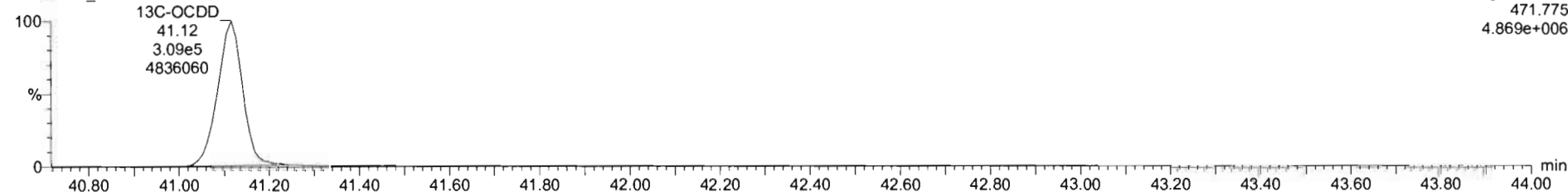


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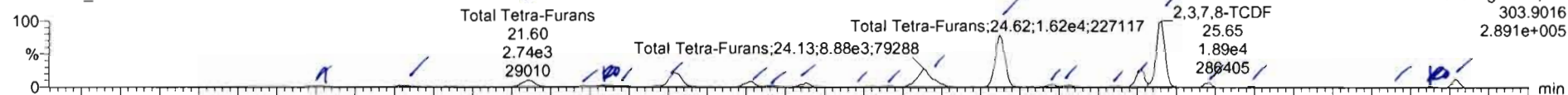
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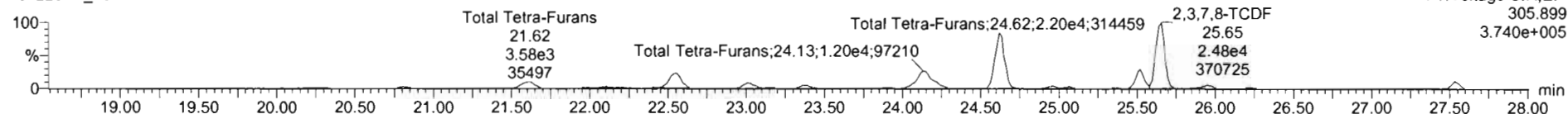
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2,3,7,8-TCDF

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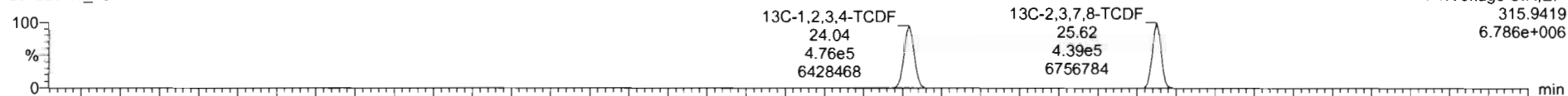


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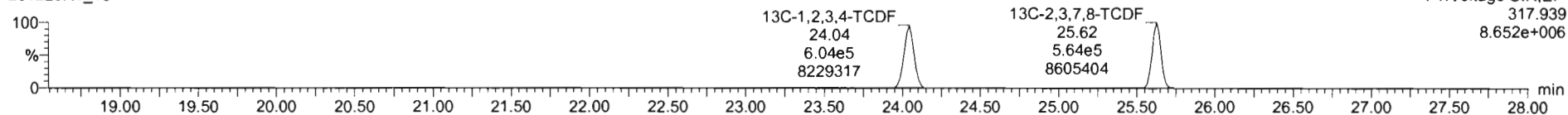


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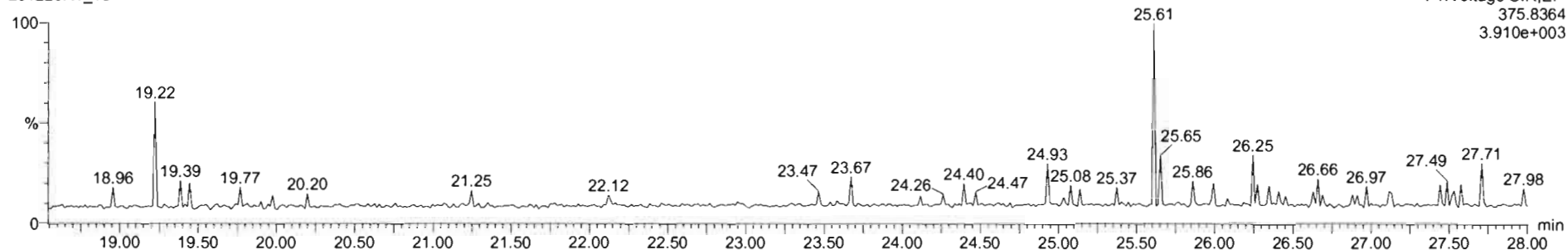


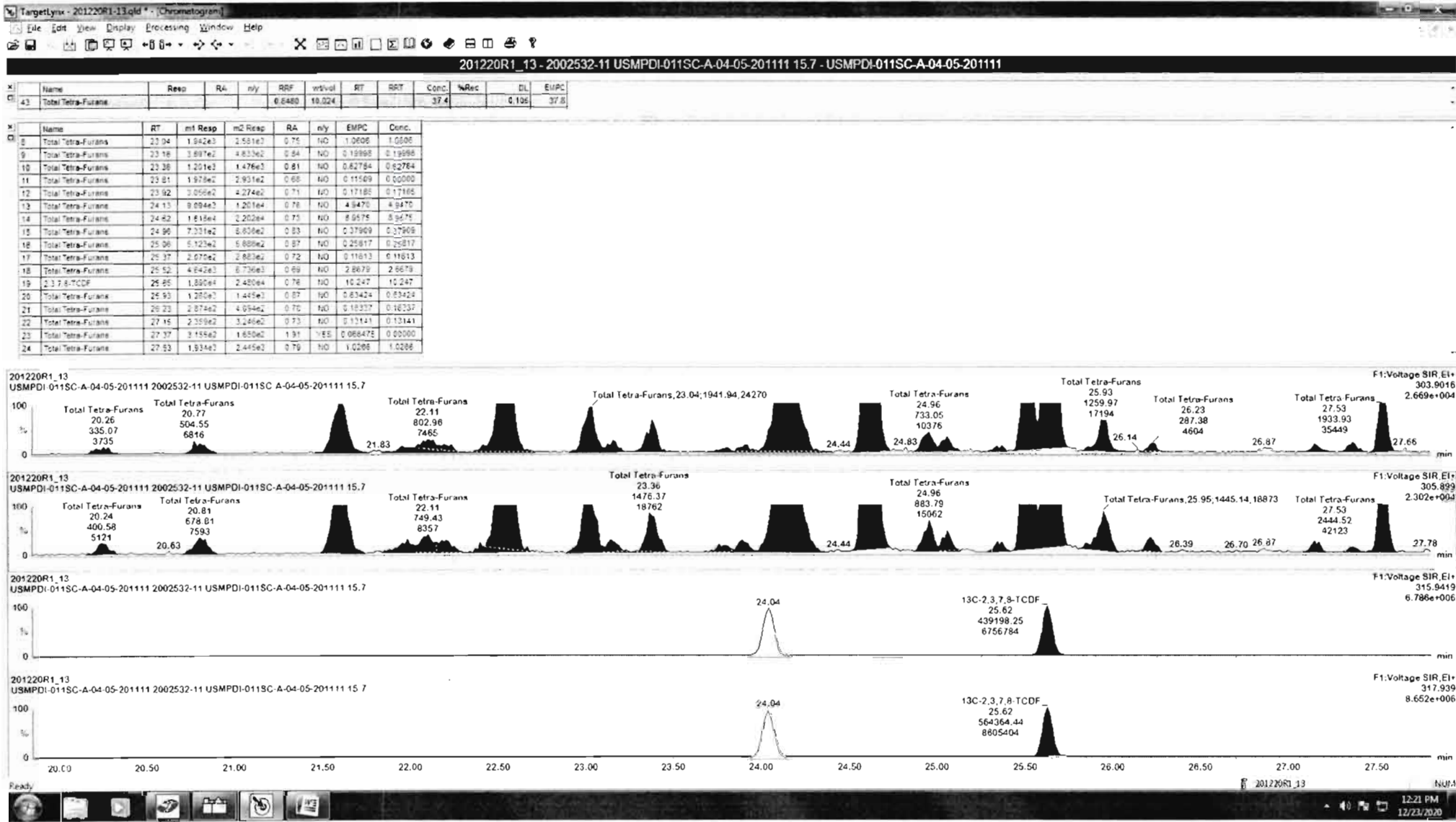
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DPE1

201220R1_13





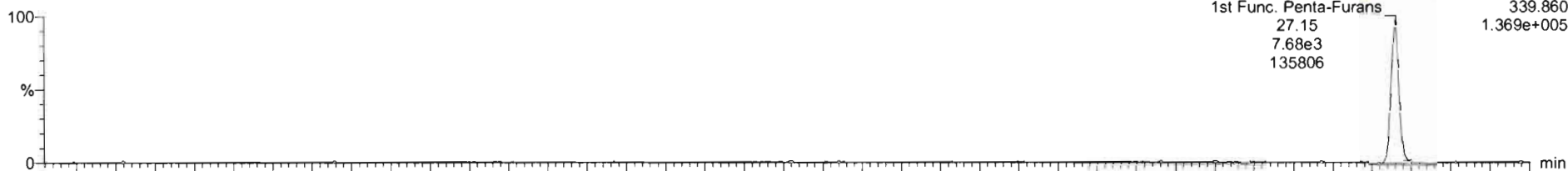
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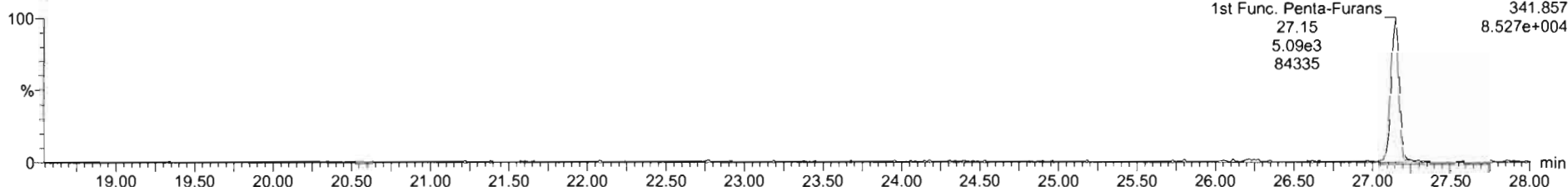
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1st Func. Penta-Furans

201220R1_13

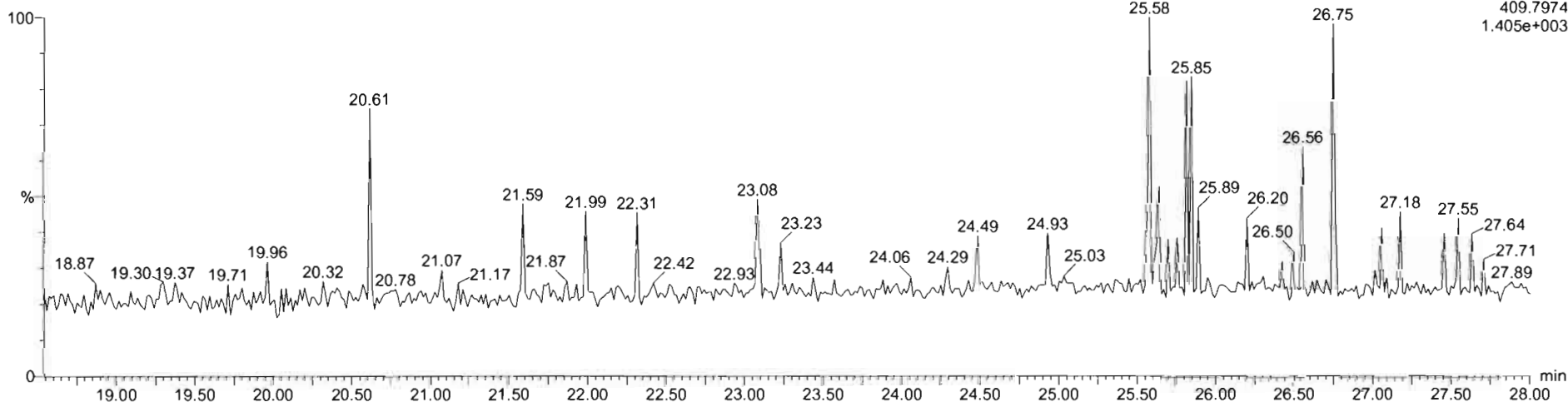


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DPE6

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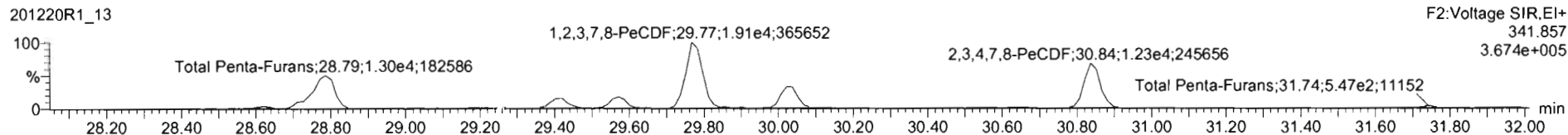
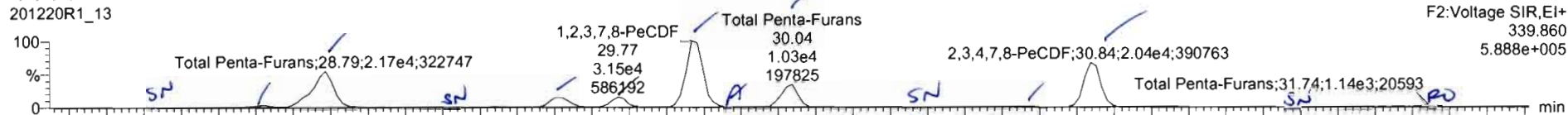


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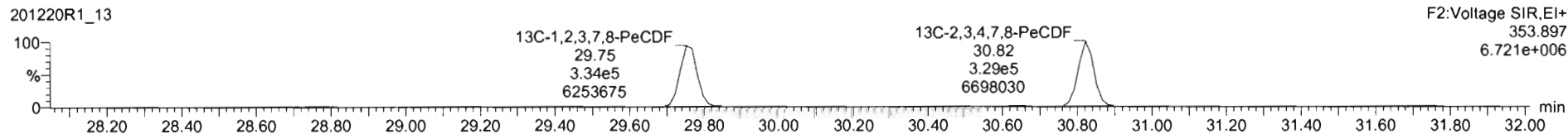
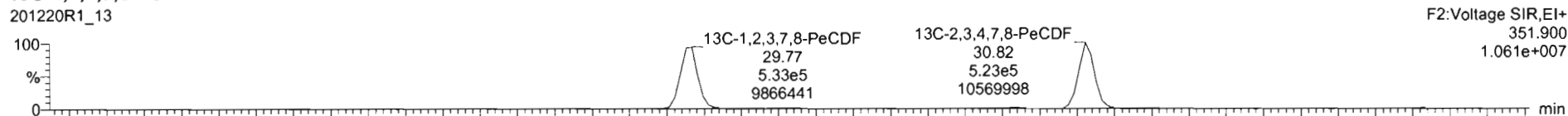
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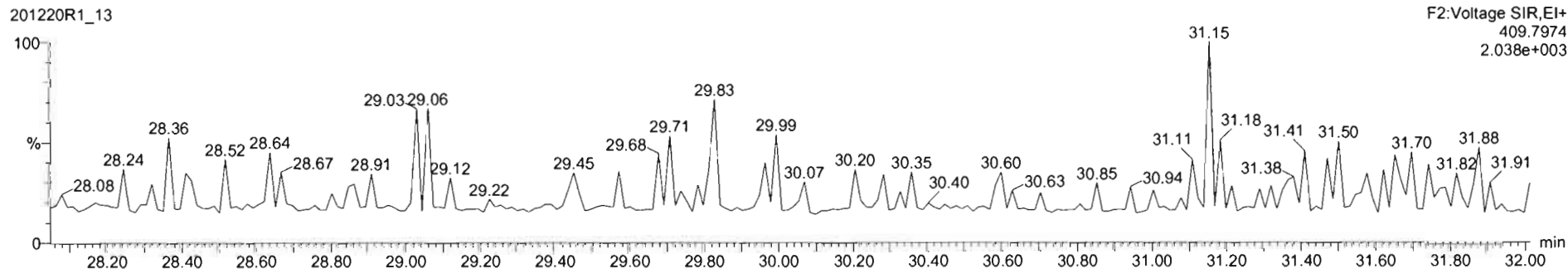
1,2,3,7,8-PeCDF

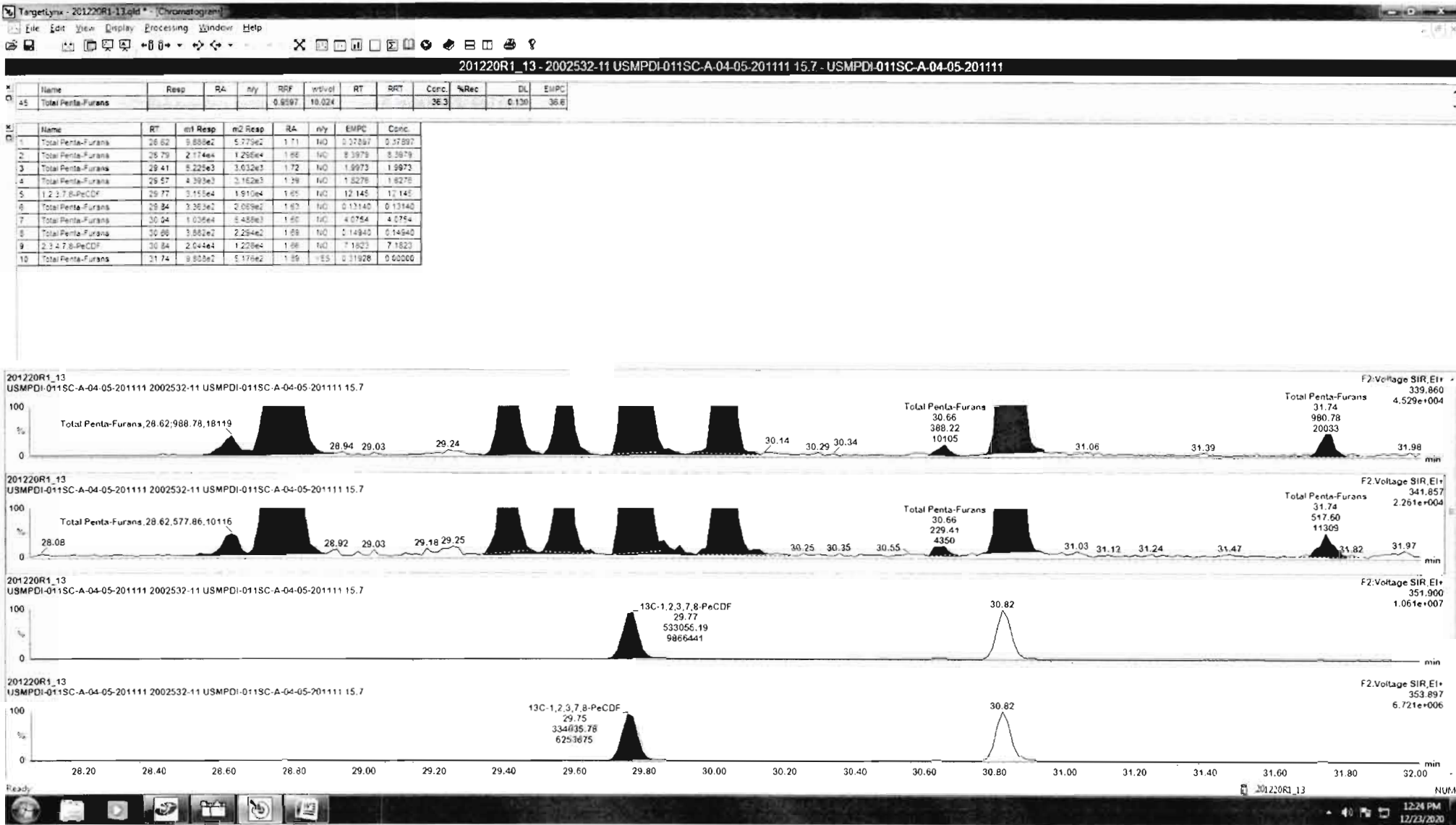


13C-1,2,3,7,8-PeCDF



DPE2





Dataset: Untitled

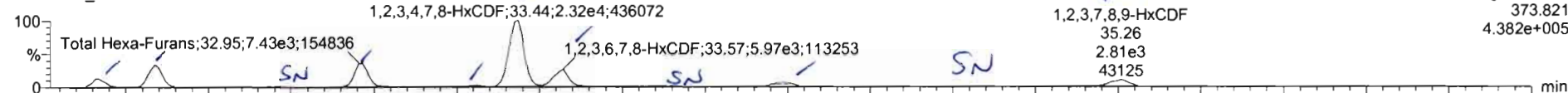
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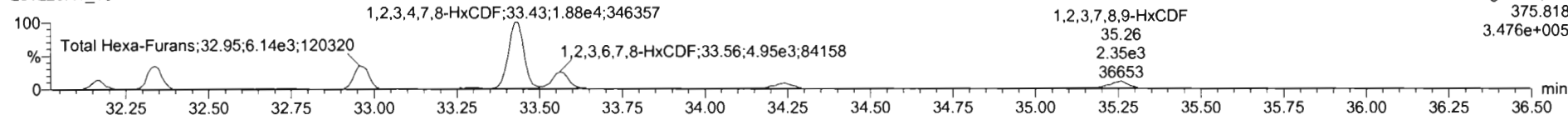
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1,2,3,4,7,8-HxCDF

201220R1_13

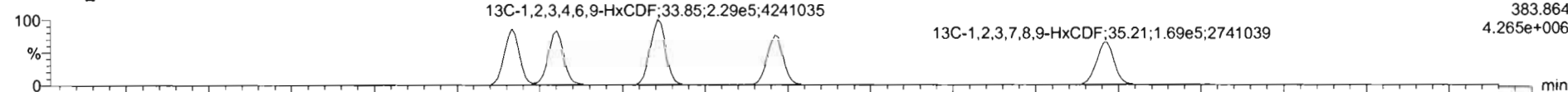


201220R1_13

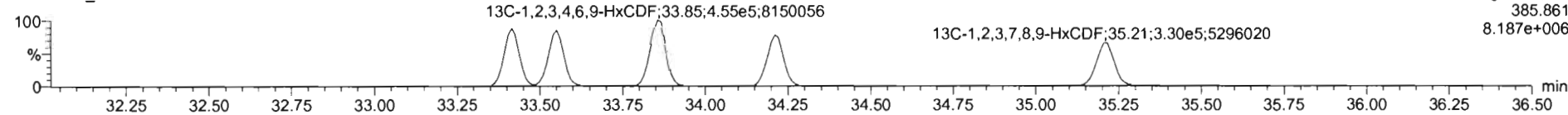


13C-1,2,3,4,7,8-HxCDF

201220R1_13

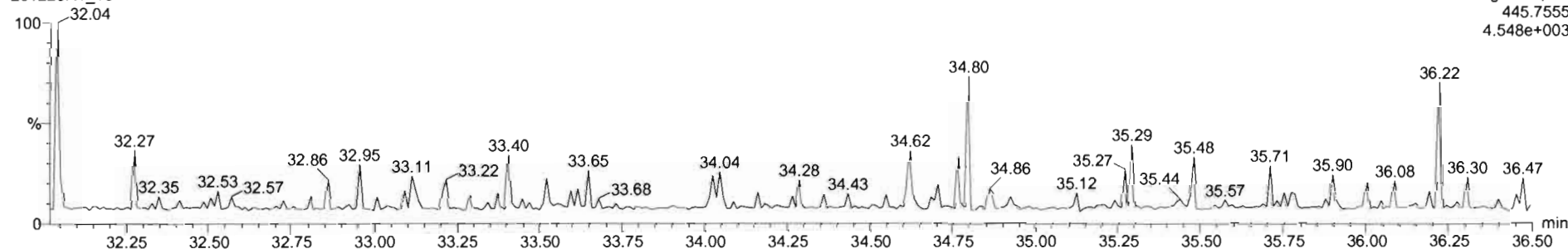


201220R1_13



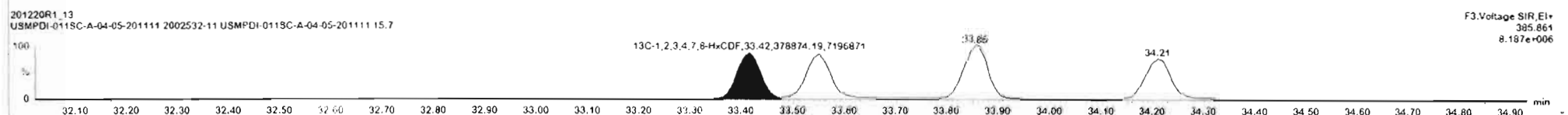
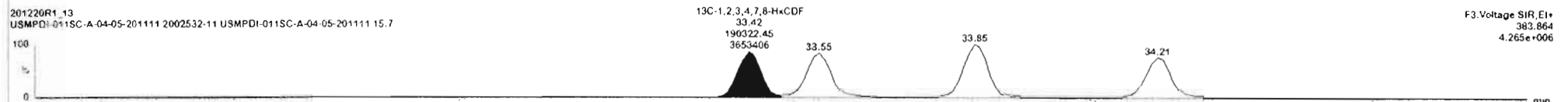
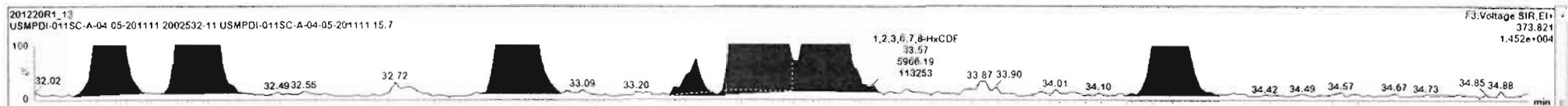
DPE3

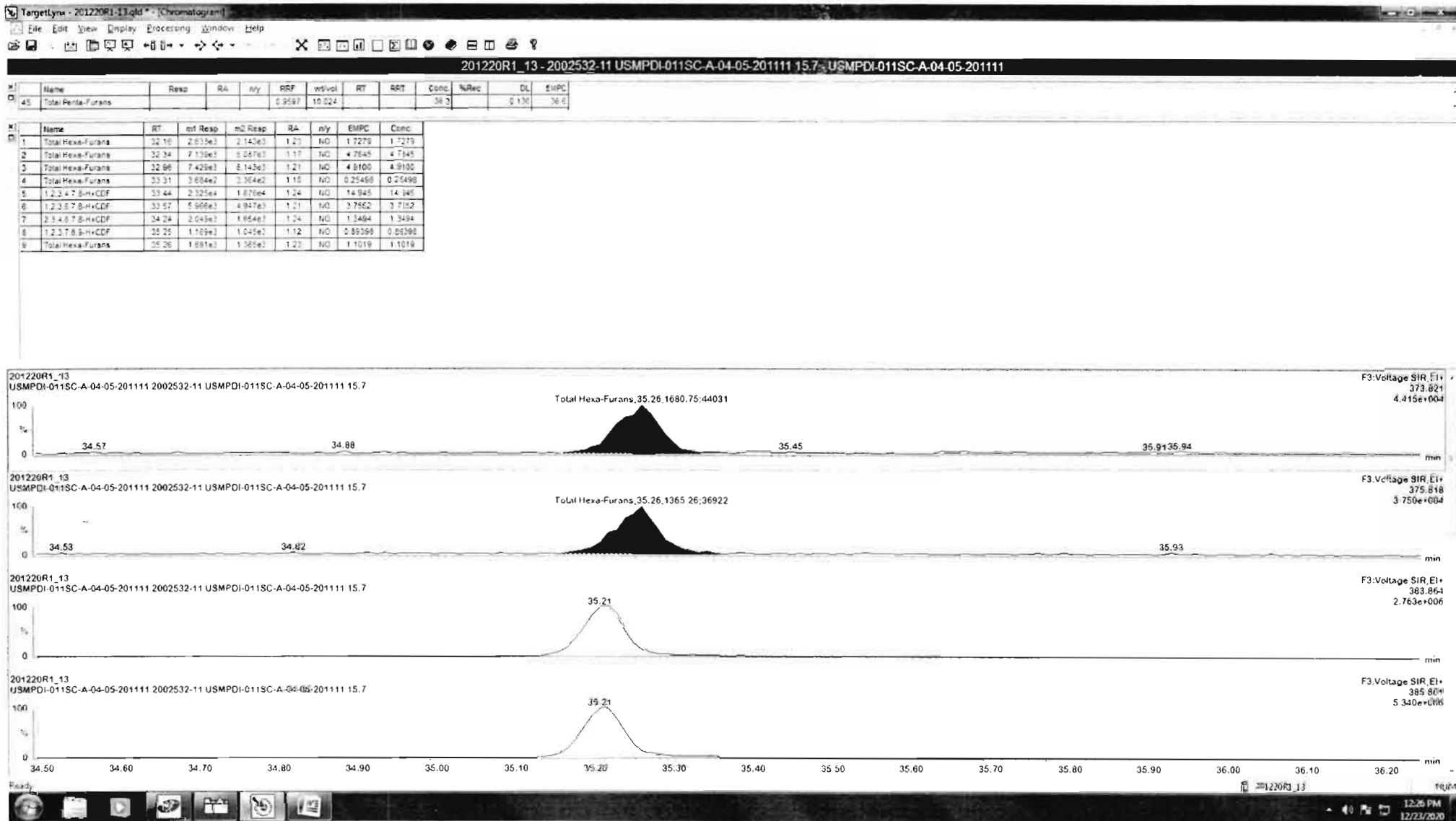
201220R1_13



Name	Resp	RA	mly	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9597	10.024			38.3		0.130	36.6

Name	RT	mt Resp	m2 Resp	RA	mly	EMPC	Conc.
1 Total Hexa-Furans	32.16	2.633e3	2.143e3	1.23	NO	1.7279	1.7279
2 Total Hexa-Furans	32.34	7.130e3	6.087e3	1.17	NO	4.7945	4.7945
3 Total Hexa-Furans	32.96	7.429e3	6.143e3	1.21	NO	4.9100	4.9100
4 Total Hexa-Furans	33.31	3.854e2	3.764e2	1.10	NO	0.25498	0.25498
5 1,2,3,4,7,8-HxCDF	33.44	2.325e4	1.879e4	1.24	NO	14.945	14.945
6 1,2,3,6,7,8-HxCDF	33.67	5.966e2	4.947e2	1.21	NO	2.7552	2.7552
7 2,3,4,6,7,8-HxCDF	34.24	2.049e3	1.854e3	1.24	NO	1.3484	1.3484
8 1,2,3,7,8,9-HxCDF	35.28	2.800e3	2.304e3	1.19	NO	2.0048	2.0048



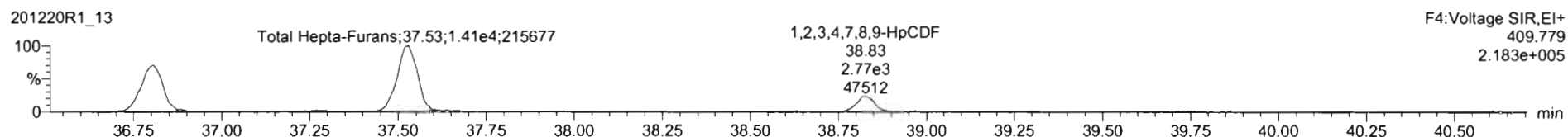
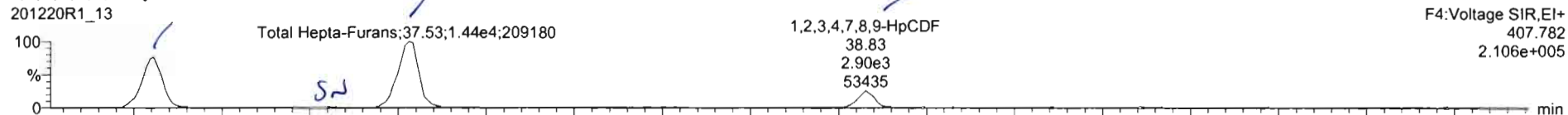


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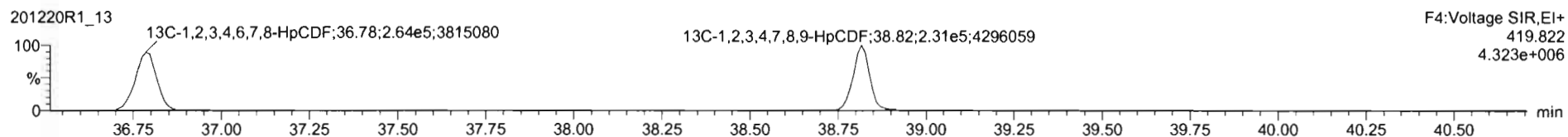
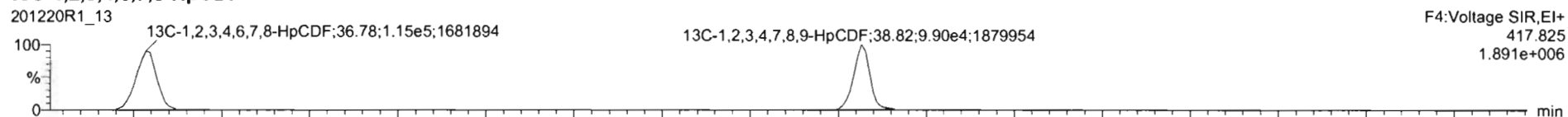
Last Altered: Monday, December 21, 2020 06:50:00 Pacific Standard Time
Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

Name: 201220R1_13, Date: 20-Dec-2020, Time: 17:22:50, ID: 2002532-11 USMPDI-011SC-A-04-05-201111 15.7, Description: USMPDI-011SC-A-04-05-201111

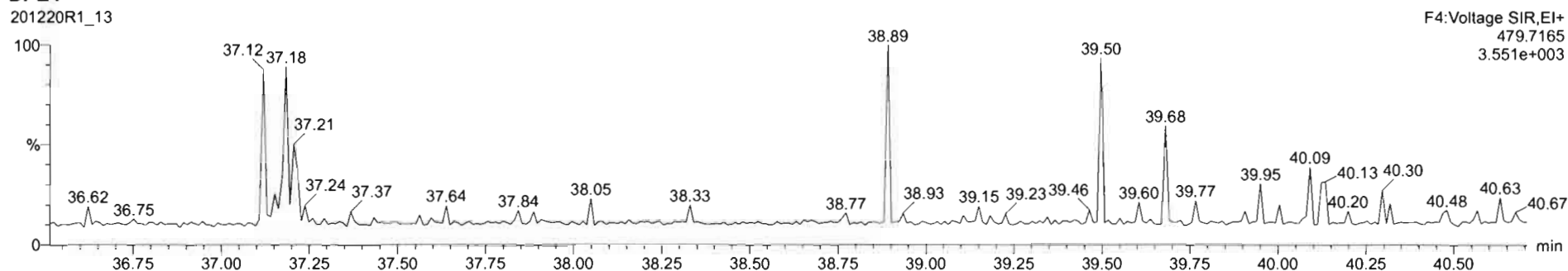
1,2,3,4,6,7,8-HpCDF

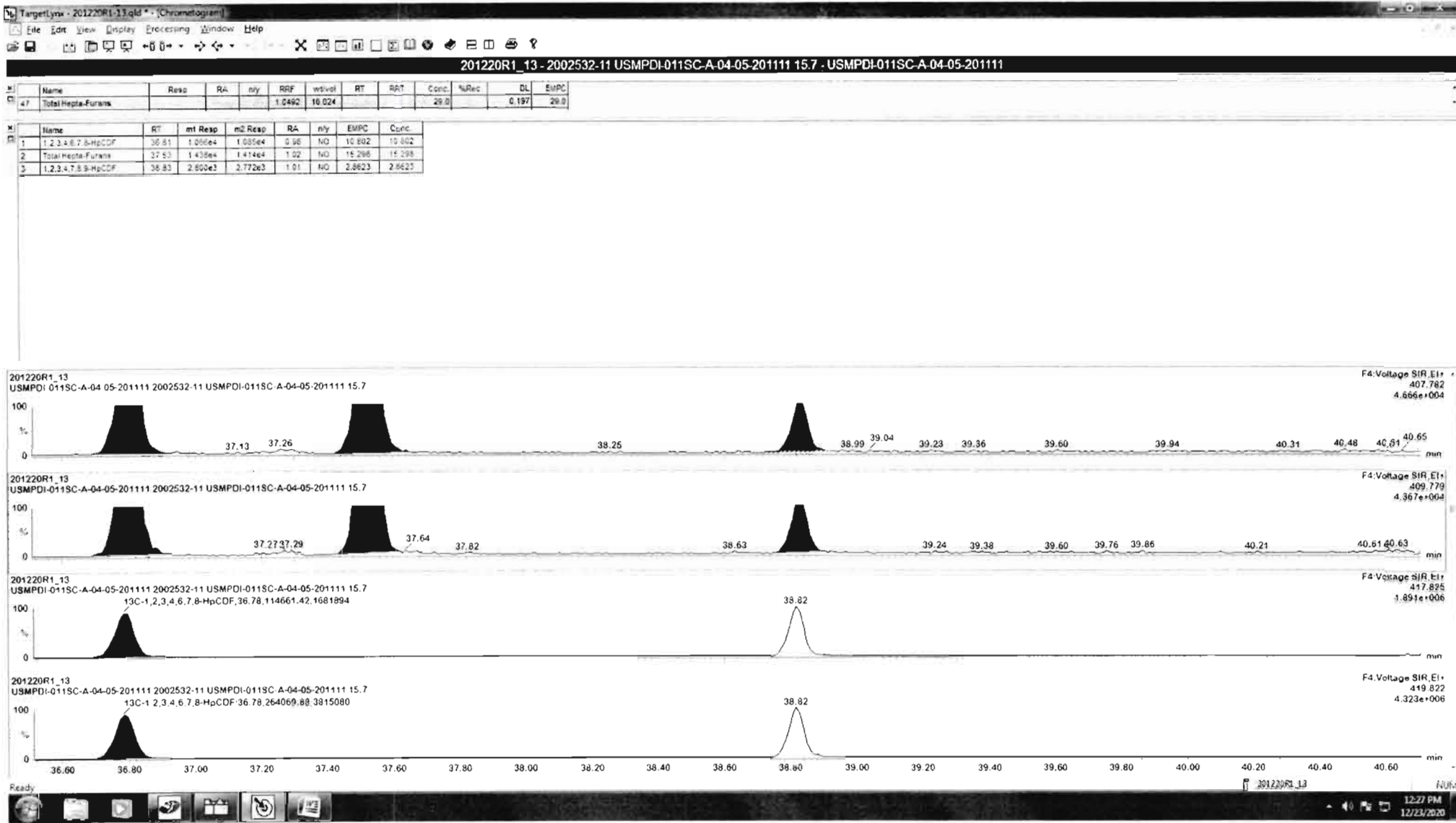


13C-1,2,3,4,6,7,8-HpCDF



DPE4

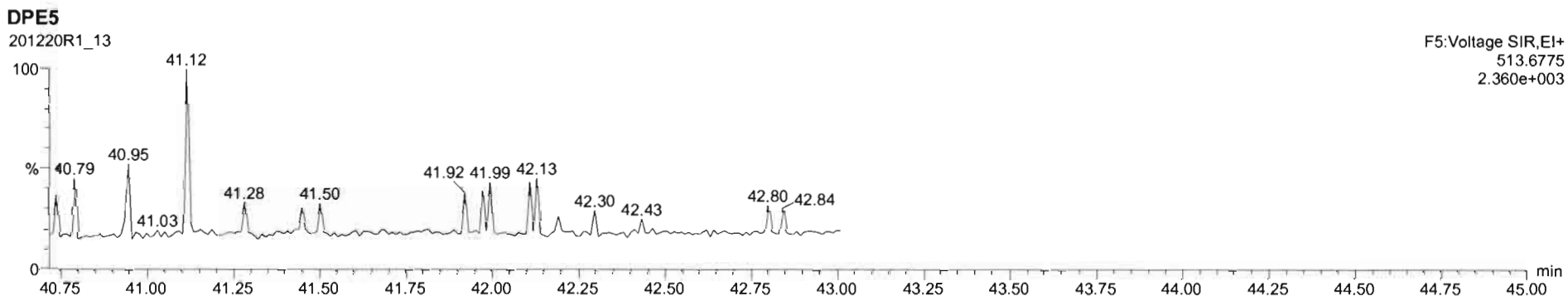
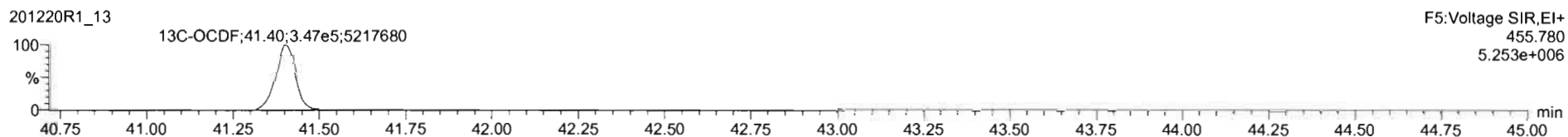
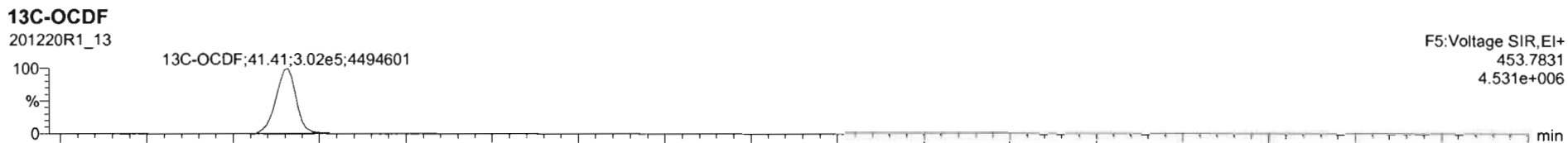
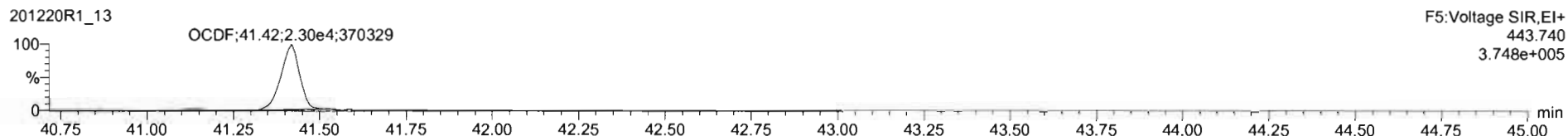
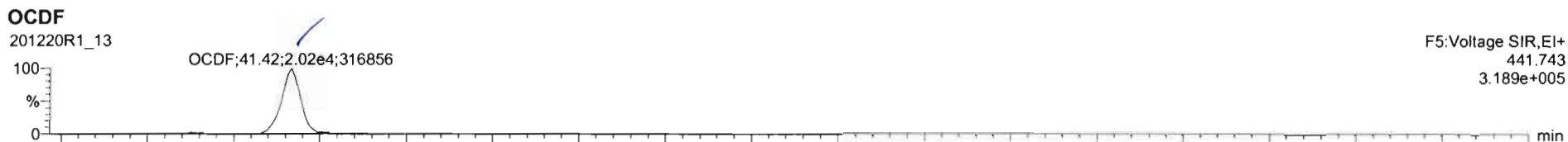




Dataset: Untitled

Last Altered: Monday, December 21, 2020 06:50:00 Pacific Standard Time
Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

Name: 201220R1_13, Date: 20-Dec-2020, Time: 17:22:50, ID: 2002532-11 USMPDI-011SC-A-04-05-201111 15.7, Description: USMPDI-011SC-A-04-05-201111



Dataset: Untitled

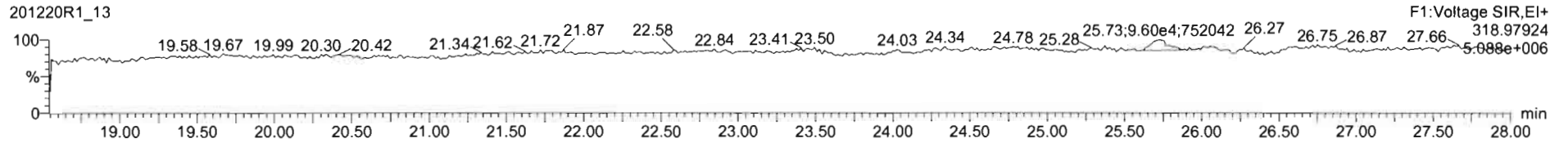
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Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

Name: 201220R1_13, Date: 20-Dec-2020, Time: 17:22:50, ID: 2002532-11 USMPDI-011SC-A-04-05-201111 15.7, Description: USMPDI-011SC-A-04-05-201111

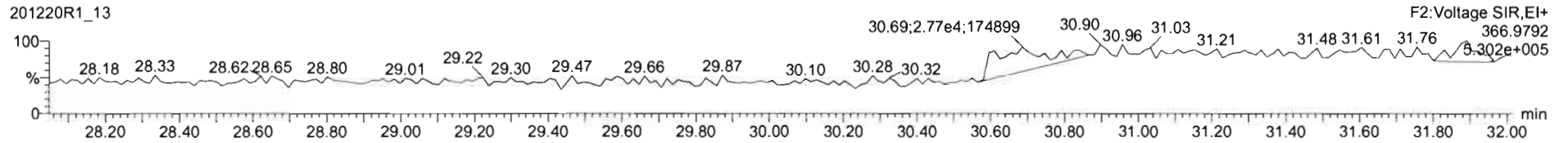
PFK1

201220R1_13



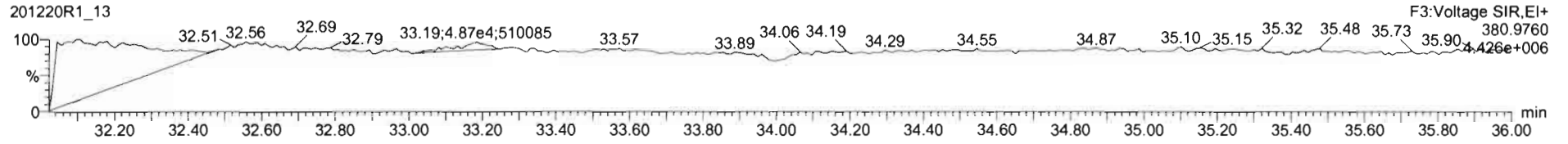
PFK2

201220R1_13



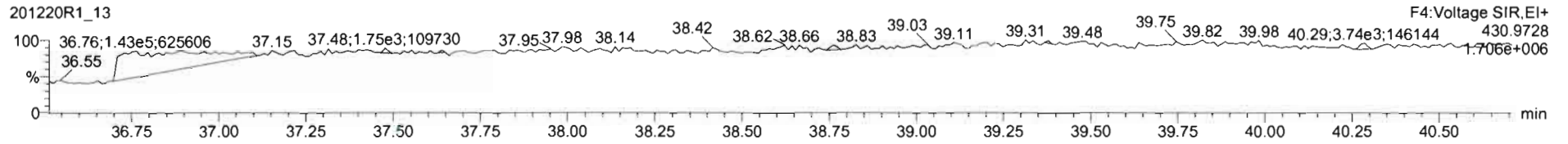
PFK3

201220R1_13



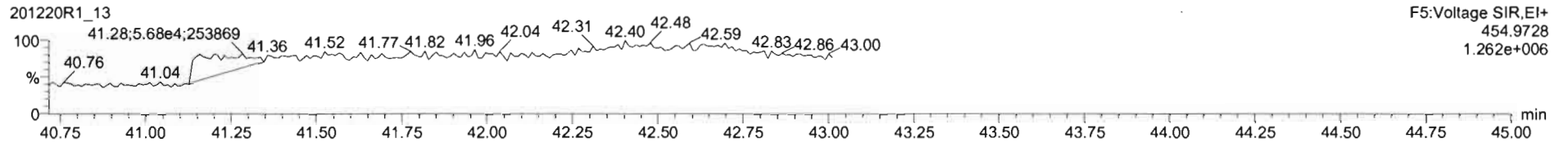
PFK4

201220R1_13



PFK5

201220R1_13



Dataset: U:\VG12.PRO\Results\201220R1\201220R1-14.qld

Last Altered: Wednesday, December 23, 2020 12:44:52 PM Pacific Standard Time
 Printed: Wednesday, December 23, 2020 12:45:10 PM Pacific Standard Time

GRB 12/23/2020

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

MW 12/23/20

Name: 201220R1_14, Date: 20-Dec-2020, Time: 18:07:05, ID: 2002532-12 USMPDI-011SC-A-05-06-201111 14.34, Description: USMPDI-011SC-A-05-06-201111

#	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	6.27e2	0.37	YES	0.980	10.045	26.337	26.33	1.001	1.001	0.16938		0.0665	0.106
2	2 1,2,3,7,8-PeCDD	6.57e2	0.71	NO	0.932	10.045	31.034	31.02	1.001	1.000	0.24064		0.131	0.241
3	3 1,2,3,4,7,8-HxCDD			NO	1.02	10.045	34.337		1.001				0.120	
4	4 1,2,3,6,7,8-HxCDD	8.23e2	1.40	NO	0.902	10.045	34.452	34.44	1.001	1.000	0.37860		0.120	0.379
5	5 1,2,3,7,8,9-HxCDD	3.89e2	1.22	NO	0.954	10.045	34.713	34.72	1.000	1.001	0.17363		0.121	0.174
6	6 1,2,3,4,6,7,8-HpCDD	1.49e4	1.01	NO	0.918	10.045	38.190	38.19	1.000	1.000	8.1531		0.297	8.15
7	7 OCDD	1.58e5	0.86	NO	0.866	10.045	41.113	41.12	1.000	1.000	119.94		0.485	120
8	8 2,3,7,8-TCDF	7.86e3	0.73	NO	0.848	10.045	25.613	25.63	1.000	1.001	1.8526		0.109	1.85
9	9 1,2,3,7,8-PeCDF	8.27e3	1.58	NO	0.960	10.045	29.739	29.75	1.000	1.001	2.0972		0.128	2.10
10	10 2,3,4,7,8-PeCDF	5.50e3	1.64	NO	1.07	10.045	30.829	30.82	1.001	1.000	1.2754		0.113	1.28
11	11 1,2,3,4,7,8-HxCDF	7.19e3	1.27	NO	0.986	10.045	33.415	33.42	1.000	1.000	2.6335		0.0849	2.63
12	12 1,2,3,6,7,8-HxCDF	2.07e3	1.18	NO	1.04	10.045	33.561	33.55	1.001	1.000	0.74426		0.0861	0.744
13	13 2,3,4,6,7,8-HxCDF	9.02e2	1.28	NO	1.02	10.045	34.222	34.22	1.001	1.001	0.33566		0.0890	0.336
14	14 1,2,3,7,8,9-HxCDF	2.84e2	1.27	NO	0.991	10.045	35.206	35.22	1.000	1.001	0.11314		0.104	0.113
15	15 1,2,3,4,6,7,8-HpCDF	4.28e3	0.97	NO	1.05	10.045	36.792	36.78	1.000	1.000	2.1381		0.102	2.14
16	16 1,2,3,4,7,8,9-HpCDF	9.39e2	0.94	NO	1.18	10.045	38.817	38.82	1.000	1.000	0.48511		0.0819	0.485
17	17 OCDF	7.52e3	0.82	NO	0.896	10.045	41.406	41.42	1.000	1.001	5.0579		0.117	5.06
18	18 13C-2,3,7,8-TCDD	7.52e5	0.78	NO	1.06	10.045	26.307	26.31	1.030	1.030	185.19	93.0	0.148	
19	19 13C-1,2,3,7,8-PeCDD	5.83e5	0.64	NO	0.785	10.045	31.139	31.00	1.219	1.214	193.15	97.0	0.218	
20	20 13C-1,2,3,4,7,8-HxCDD	4.33e5	1.31	NO	0.621	10.045	34.305	34.32	1.014	1.014	196.99	98.9	0.468	
21	21 13C-1,2,3,6,7,8-HxCDD	4.80e5	1.27	NO	0.734	10.045	34.427	34.43	1.017	1.017	184.76	92.8	0.396	
22	22 13C-1,2,3,7,8,9-HxCDD	4.68e5	1.26	NO	0.723	10.045	34.711	34.70	1.026	1.025	183.00	91.9	0.402	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.95e5	1.05	NO	0.568	10.045	38.208	38.18	1.129	1.128	196.85	98.9	0.929	
24	24 13C-OCDD	6.08e5	0.88	NO	0.496	10.045	41.142	41.10	1.216	1.215	346.28	87.0	0.725	
25	25 13C-2,3,7,8-TCDF	9.97e5	0.78	NO	0.919	10.045	25.608	25.61	1.003	1.003	188.15	94.5	0.214	
26	26 13C-1,2,3,7,8-PeCDF	8.18e5	1.59	NO	0.715	10.045	29.852	29.74	1.169	1.164	198.50	99.7	0.289	
27	27 13C-2,3,4,7,8-PeCDF	8.05e5	1.60	NO	0.689	10.045	30.937	30.81	1.212	1.206	202.84	102	0.301	
28	28 13C-1,2,3,4,7,8-HxCDF	5.51e5	0.51	NO	0.873	10.045	33.412	33.40	0.987	0.987	178.42	89.6	0.444	
29	29 13C-1,2,3,6,7,8-HxCDF	5.34e5	0.50	NO	0.933	10.045	33.540	33.54	0.991	0.991	161.66	81.2	0.416	
30	30 13C-2,3,4,6,7,8-HxCDF	5.25e5	0.50	NO	0.843	10.045	34.207	34.20	1.011	1.011	175.90	88.3	0.460	
31	31 13C-1,2,3,7,8,9-HxCDF	5.04e5	0.50	NO	0.780	10.045	35.206	35.19	1.040	1.040	182.75	91.8	0.497	

Dataset: U:\VG12.PRO\Results\201220R1\201220R1-14.qld

Last Altered: Wednesday, December 23, 2020 12:44:52 PM Pacific Standard Time
Printed: Wednesday, December 23, 2020 12:45:10 PM Pacific Standard Time

Name: 201220R1_14, Date: 20-Dec-2020, Time: 18:07:05, ID: 2002532-12 USMPDI-011SC-A-05-06-201111 14.34, Description: USMPDI-011SC-A-05-06-201111

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.80e5	0.42	NO	0.726	10.045	36.779	36.77	1.087	1.087	147.78	74.2	0.576	
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.28e5	0.42	NO	0.491	10.045	38.786	38.81	1.146	1.147	188.53	94.7	0.851	
34	34 13C-OCDF	6.60e5	0.88	NO	0.565	10.045	41.359	41.40	1.222	1.223	330.12	82.9	0.714	
35	35 37Cl-2,3,7,8-TCDD	3.45e5			1.22	10.045	26.302	26.32	1.030	1.031	73.649	92.5	0.0234	
36	36 13C-1,2,3,4-TCDD	7.66e5	0.78	NO	1.00	10.045	25.640	25.54	1.000	1.000	199.10	100	0.156	
37	37 13C-1,2,3,4-TCDF	1.15e6	0.79	NO	1.00	10.045	24.130	24.03	1.000	1.000	199.10	100	0.197	
38	38 13C-1,2,3,4,6,9-HxCDF	7.04e5	0.50	NO	1.00	10.045	33.920	33.85	1.000	1.000	199.10	100	0.388	
39	39 Total Tetra-Dioxins				0.980	10.045	24.620		0.000		2.1229		0.0665	2.49
40	40 Total Penta-Dioxins				0.932	10.045	29.960		0.000		1.2868		0.131	1.86
41	41 Total Hexa-Dioxins				0.902	10.045	33.635		0.000		3.9673		0.128	3.97
42	42 Total Hepta-Dioxins				0.918	10.045	37.640		0.000		23.801		0.297	23.8
43	43 Total Tetra-Furans				0.848	10.045	23.610		0.000		14.259		0.109	14.8
44	44 1st Func. Penta-Furans				0.960	10.045	26.930		0.000		1.0559		0.0165	1.06
45	45 Total Penta-Furans				0.960	10.045	29.275		0.000		7.5622		0.127	7.56
46	46 Total Hexa-Furans				1.02	10.045	33.555		0.000		6.8785		0.0897	6.88
47	47 Total Hepta-Furans				1.05	10.045	37.835		0.000		5.8961		0.0972	5.90

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201220R1\201220R1-14.qld

Last Altered: Wednesday, December 23, 2020 12:44:52 PM Pacific Standard Time

Printed: Wednesday, December 23, 2020 12:45:10 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\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201220R1_14, Date: 20-Dec-2020, Time: 18:07:05, ID: 2002532-12 USMPDI-011SC-A-05-06-201111 14.34, Description: USMPDI-011SC-A-05-06-201111

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.48	8.301e3	1.147e4	7.520e2	9.375e2	0.80	NO	1.689e3	0.45616	0.45616	0.0665
2	Total Tetra-Dioxins	22.85	4.175e3	5.306e3	3.434e2	4.814e2	0.71	NO	8.248e2	0.22269	0.22269	0.0665
3	Total Tetra-Dioxins	23.41	2.277e3	3.384e3	1.713e2	2.485e2	0.69	NO	0.000e0	0.00000	0.11336	0.0665
4	Total Tetra-Dioxins	24.41	6.353e3	8.693e3	5.587e2	7.692e2	0.73	NO	1.328e3	0.35853	0.35853	0.0665
5	Total Tetra-Dioxins	24.68	5.646e3	7.260e3	4.513e2	5.197e2	0.87	NO	9.710e2	0.26217	0.26217	0.0665
6	Total Tetra-Dioxins	24.84	3.943e3	4.490e3	2.567e2	3.002e2	0.85	NO	0.000e0	0.00000	0.15037	0.0665
7	Total Tetra-Dioxins	25.24	3.925e3	4.966e3	3.769e2	4.313e2	0.87	NO	8.082e2	0.21823	0.21823	0.0665
8	Total Tetra-Dioxins	26.01	7.440e3	8.277e3	7.262e2	8.257e2	0.88	NO	1.552e3	0.41902	0.41902	0.0665
9	2,3,7,8-TCDD	26.33	3.734e3	7.752e3	1.703e2	4.570e2	0.37	YES	6.273e2	0.00000	0.10571	0.0665
10	Total Tetra-Dioxins	26.64	3.883e3	4.408e3	2.233e2	2.779e2	0.80	NO	5.012e2	0.13532	0.13532	0.0665
11	Total Tetra-Dioxins	26.78	1.129e3	2.177e3	7.991e1	1.083e2	0.74	NO	1.882e2	0.050812	0.050812	0.0665

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.77	6.031e3	8.987e3	4.983e2	7.496e2	0.66	NO	1.248e3	0.45718	0.45718	0.131
2	Total Penta-Dioxins	29.75	1.204e4	1.234e4	6.130e2	7.054e2	0.87	YES	0.000e0	0.00000	0.42121	0.131
3	Total Penta-Dioxins	29.93	4.930e3	5.084e3	2.205e2	2.509e2	0.88	YES	0.000e0	0.00000	0.14981	0.131
4	Total Penta-Dioxins	30.01	6.105e3	6.405e3	1.855e2	2.890e2	0.64	NO	4.745e2	0.17384	0.17384	0.131
5	Total Penta-Dioxins	30.20	2.707e3	6.528e3	2.308e2	4.161e2	0.55	NO	6.470e2	0.23703	0.23703	0.131
6	Total Penta-Dioxins	30.55	4.659e3	5.435e3	1.925e2	2.938e2	0.66	NO	4.863e2	0.17816	0.17816	0.131
7	1,2,3,7,8-PeCDD	31.02	6.355e3	6.136e3	2.720e2	3.849e2	0.71	NO	6.569e2	0.24064	0.24064	0.131

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Dataset: U:\VG12.PRO\Results\201220R1\201220R1-14.qld

Last Altered: Wednesday, December 23, 2020 12:44:52 PM Pacific Standard Time

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Name: 201220R1_14, Date: 20-Dec-2020, Time: 18:07:05, ID: 2002532-12 USMPDI-011SC-A-05-06-201111 14.34, Description: USMPDI-011SC-A-05-06-201111

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.69	3.582e4	3.072e4	1.596e3	1.396e3	1.14	NO	2.992e3	1.4346	1.4346	0.128
2	Total Hexa-Dioxins	33.29	8.519e3	8.167e3	4.290e2	3.973e2	1.08	NO	8.263e2	0.39621	0.39621	0.128
3	Total Hexa-Dioxins	33.58	2.392e4	2.156e4	1.595e3	1.353e3	1.18	NO	2.948e3	1.4136	1.4136	0.128
4	Total Hexa-Dioxins	33.68	3.872e3	3.523e3	1.942e2	1.616e2	1.20	NO	3.558e2	0.17062	0.17062	0.128
5	1,2,3,6,7,8-HxCDD	34.44	7.517e3	7.504e3	4.806e2	3.429e2	1.40	NO	8.235e2	0.37860	0.37860	0.120
6	1,2,3,7,8,9-HxCDD	34.72	4.140e3	3.113e3	2.139e2	1.754e2	1.22	NO	3.894e2	0.17363	0.17363	0.121

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.17	1.992e5	1.983e5	1.448e4	1.405e4	1.03	NO	2.853e4	15.648	15.648	0.297
2	1,2,3,4,6,7,8-HpCDD	38.19	1.286e5	1.286e5	7.455e3	7.411e3	1.01	NO	1.487e4	8.1531	8.1531	0.297

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Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.21	4.830e3	7.587e3	4.697e2	6.112e2	0.77	NO	1.081e3	0.25465	0.25465	0.109
2	Total Tetra-Furans	20.82	6.494e3	7.774e3	5.101e2	7.072e2	0.72	NO	1.217e3	0.28678	0.28678	0.109
3	Total Tetra-Furans	21.59	9.441e3	1.142e4	8.182e2	1.155e3	0.71	NO	1.973e3	0.46471	0.46471	0.109
4	Total Tetra-Furans	21.83	5.190e3	6.460e3	3.626e2	5.007e2	0.72	NO	8.633e2	0.20337	0.20337	0.109
5	Total Tetra-Furans	21.94	5.250e3	5.454e3	4.010e2	4.699e2	0.85	NO	8.709e2	0.20515	0.20515	0.109
6	Total Tetra-Furans	22.11	1.154e4	1.709e4	1.238e3	1.741e3	0.71	NO	2.979e3	0.70167	0.70167	0.109
7	Total Tetra-Furans	22.18	6.344e3	9.475e3	4.571e2	6.976e2	0.66	NO	1.155e3	0.27201	0.27201	0.109
8	Total Tetra-Furans	22.42	4.513e3	6.280e3	2.840e2	4.251e2	0.67	NO	7.091e2	0.16704	0.16704	0.109
9	Total Tetra-Furans	22.50	1.662e4	2.497e4	1.986e3	2.861e3	0.69	NO	4.847e3	1.1418	1.1418	0.109
10	Total Tetra-Furans	22.99	1.215e4	1.582e4	8.675e2	1.301e3	0.67	NO	2.169e3	0.51085	0.51085	0.109
11	Total Tetra-Furans	23.11	5.735e3	8.857e3	5.303e2	7.149e2	0.74	NO	1.245e3	0.29332	0.29332	0.109
12	Total Tetra-Furans	23.36	8.842e3	1.265e4	6.648e2	9.098e2	0.73	NO	1.575e3	0.37093	0.37093	0.109
13	Total Tetra-Furans	23.78	8.950e3	1.101e4	6.561e2	9.058e2	0.72	NO	1.562e3	0.36792	0.36792	0.109
14	Total Tetra-Furans	23.91	7.532e3	1.310e4	6.404e2	9.072e2	0.71	NO	1.548e3	0.36456	0.36456	0.109
15	Total Tetra-Furans	24.12	2.336e4	3.058e4	2.244e3	3.191e3	0.70	NO	5.436e3	1.2805	1.2805	0.109
16	Total Tetra-Furans	24.16	2.335e4	2.758e4	1.978e3	2.545e3	0.78	NO	4.523e3	1.0655	1.0655	0.109
17	Total Tetra-Furans	24.60	5.212e4	6.965e4	3.860e3	4.709e3	0.82	NO	8.569e3	2.0187	2.0187	0.109
18	Total Tetra-Furans	24.93	1.348e4	1.656e4	7.818e2	1.009e3	0.77	NO	1.791e3	0.42192	0.42192	0.109
19	Total Tetra-Furans	25.03	9.909e3	1.000e4	5.607e2	6.921e2	0.81	NO	1.253e3	0.29512	0.29512	0.109
20	Total Tetra-Furans	25.34	1.158e4	1.527e4	7.529e2	1.034e3	0.73	NO	1.787e3	0.42102	0.42102	0.109
21	Total Tetra-Furans	25.51	2.197e4	3.188e4	1.578e3	2.020e3	0.78	NO	3.598e3	0.84747	0.84747	0.109
22	2,3,7,8-TCDF	25.63	5.059e4	6.971e4	3.311e3	4.553e3	0.73	NO	7.864e3	1.8526	1.8526	0.109
23	Total Tetra-Furans	25.85	6.217e3	1.164e4	3.893e2	5.835e2	0.67	NO	9.728e2	0.22917	0.22917	0.109
24	Total Tetra-Furans	25.92	1.503e4	2.098e4	1.016e3	1.324e3	0.77	NO	0.000e0	0.00000	0.55127	0.109
25	Total Tetra-Furans	27.52	8.244e3	7.973e3	4.371e2	5.054e2	0.86	NO	9.425e2	0.22203	0.22203	0.109

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	27.13	3.680e4	2.608e4	2.497e3	1.634e3	1.53	NO	4.131e3	1.0559	1.0559	0.0165

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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	28.58	9.751e3	5.275e3	7.878e2	4.508e2	1.75	NO	1.239e3	0.31659	0.31659	0.127
2	Total Penta-Furans	28.77	5.532e4	4.013e4	4.213e3	2.582e3	1.63	NO	6.795e3	1.7368	1.7368	0.127
3	Total Penta-Furans	29.41	1.948e4	1.732e4	1.300e3	9.824e2	1.32	NO	2.282e3	0.58342	0.58342	0.127
4	Total Penta-Furans	29.56	2.032e4	1.249e4	9.907e2	5.802e2	1.71	NO	1.571e3	0.40154	0.40154	0.127
5	1,2,3,7,8-PeCDF	29.75	9.773e4	6.539e4	5.066e3	3.205e3	1.58	NO	8.271e3	2.0972	2.0972	0.128
6	Total Penta-Furans	30.02	3.830e4	2.773e4	2.241e3	1.361e3	1.65	NO	3.603e3	0.92092	0.92092	0.127
7	Total Penta-Furans	30.64	1.106e4	7.509e3	5.204e2	3.803e2	1.37	NO	9.007e2	0.23022	0.23022	0.127
8	2,3,4,7,8-PeCDF	30.82	6.742e4	3.901e4	3.421e3	2.082e3	1.64	NO	5.503e3	1.2754	1.2754	0.113

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.16	1.200e4	1.014e4	5.461e2	4.753e2	1.15	NO	1.021e3	0.37712	0.37712	0.0897
2	Total Hexa-Furans	32.32	3.225e4	2.645e4	1.582e3	1.326e3	1.19	NO	2.909e3	1.0740	1.0740	0.0897
3	Total Hexa-Furans	32.94	3.653e4	3.062e4	1.855e3	1.459e3	1.27	NO	3.314e3	1.2235	1.2235	0.0897
4	Total Hexa-Furans	33.28	3.782e3	3.315e3	1.398e2	1.182e2	1.18	NO	2.580e2	0.095258	0.095258	0.0897
5	1,2,3,4,7,8-HxCDF	33.42	7.460e4	6.310e4	4.019e3	3.171e3	1.27	NO	7.190e3	2.6335	2.6335	0.0849
6	1,2,3,6,7,8-HxCDF	33.55	2.435e4	2.043e4	1.122e3	9.511e2	1.18	NO	2.073e3	0.74426	0.74426	0.0861
7	2,3,4,6,7,8-HxCDF	34.22	9.463e3	6.197e3	5.069e2	3.955e2	1.28	NO	9.024e2	0.33566	0.33566	0.0890
8	1,2,3,7,8,9-HxCDF	35.22	6.051e3	6.131e3	1.587e2	1.253e2	1.27	NO	2.840e2	0.11314	0.11314	0.104
9	Total Hexa-Furans	35.26	7.470e3	7.200e3	4.143e2	3.496e2	1.19	NO	7.638e2	0.28203	0.28203	0.0897

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	36.78	3.118e4	2.951e4	2.110e3	2.170e3	0.97	NO	4.280e3	2.1381	2.1381	0.102
2	Total Hepta-Furans	37.51	4.616e4	4.639e4	2.957e3	3.144e3	0.94	NO	6.101e3	3.2729	3.2729	0.0972
3	1,2,3,4,7,8,9-HpCDF	38.82	8.267e3	9.270e3	4.544e2	4.843e2	0.94	NO	9.386e2	0.48511	0.48511	0.0819

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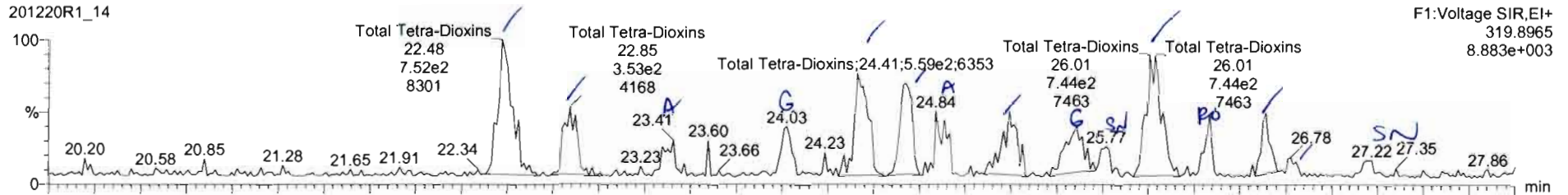
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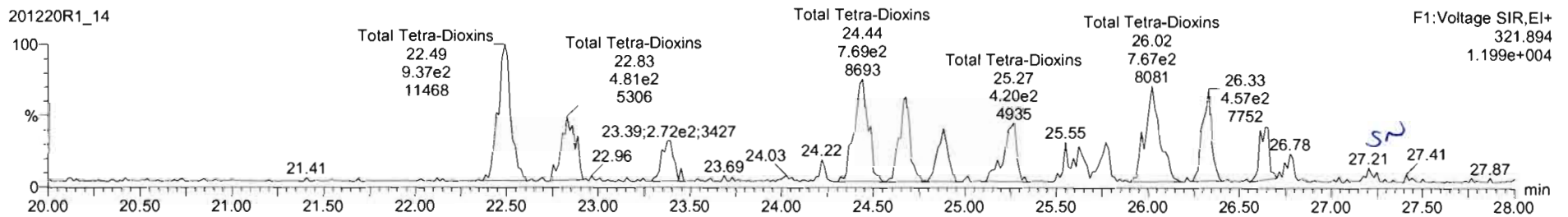
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2,3,7,8-TCDD

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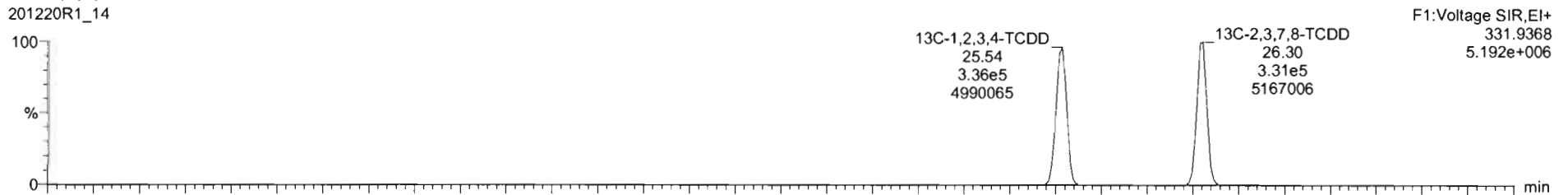


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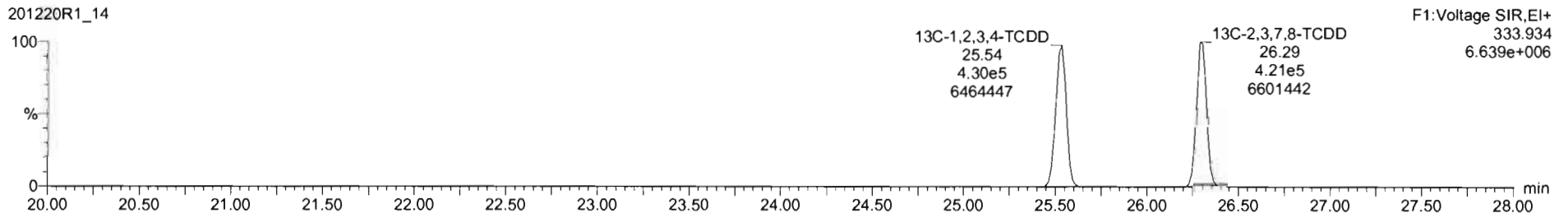


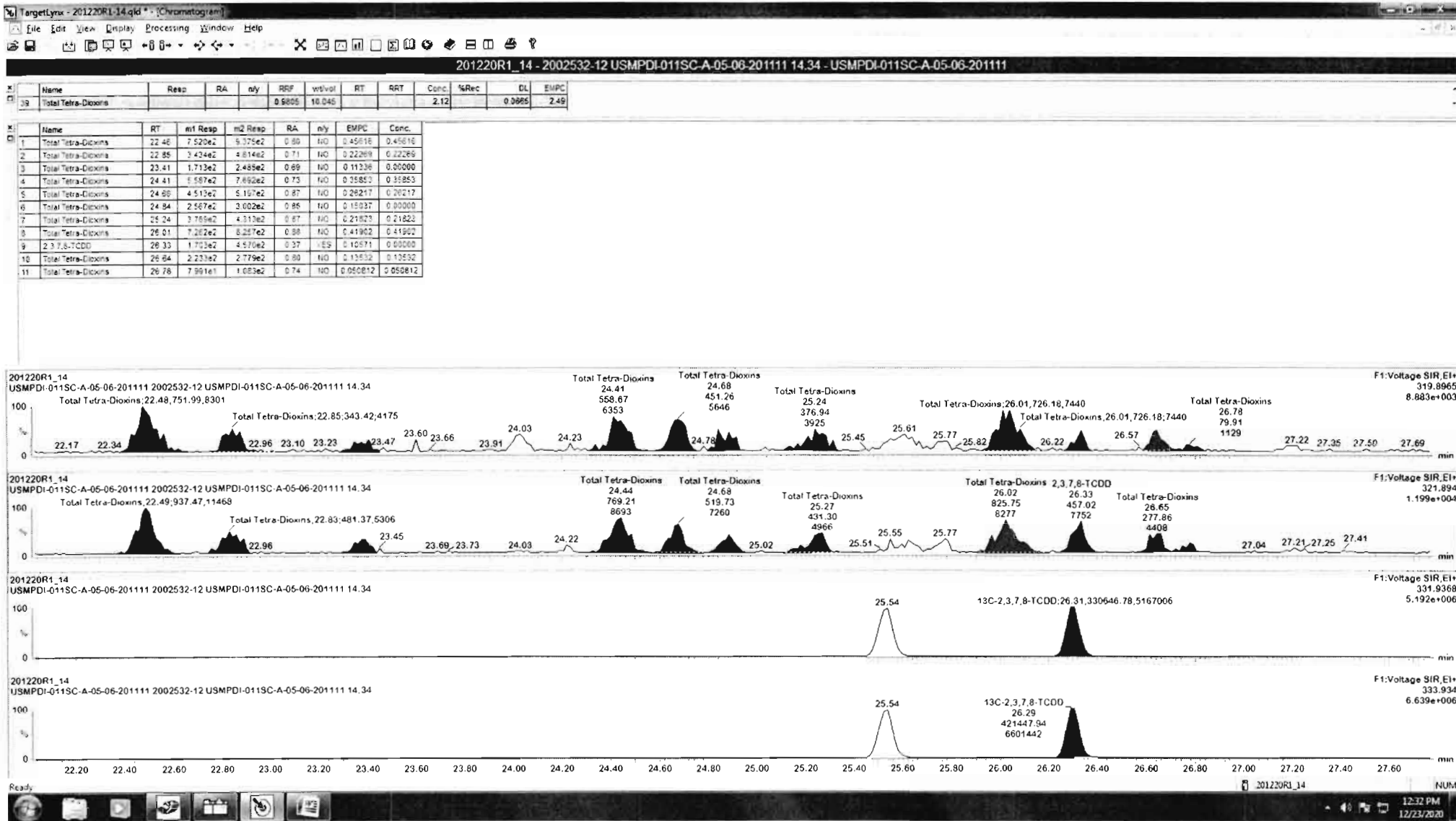
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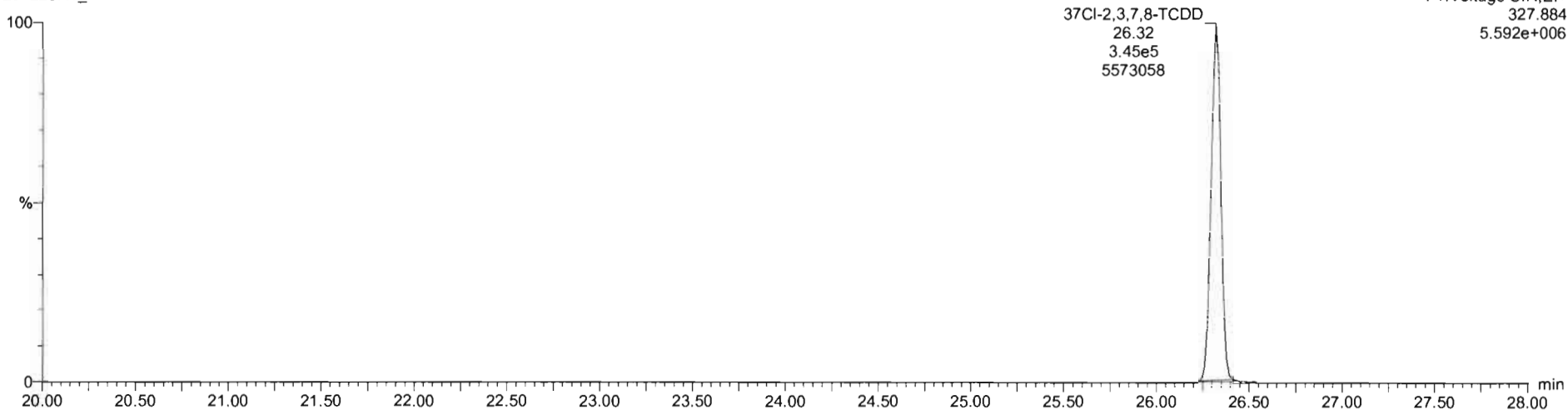
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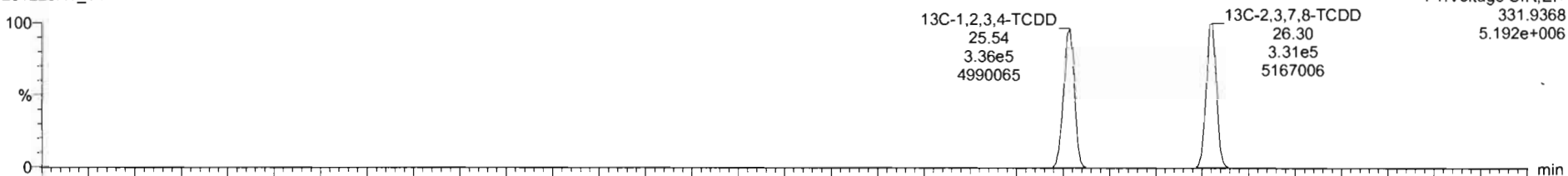
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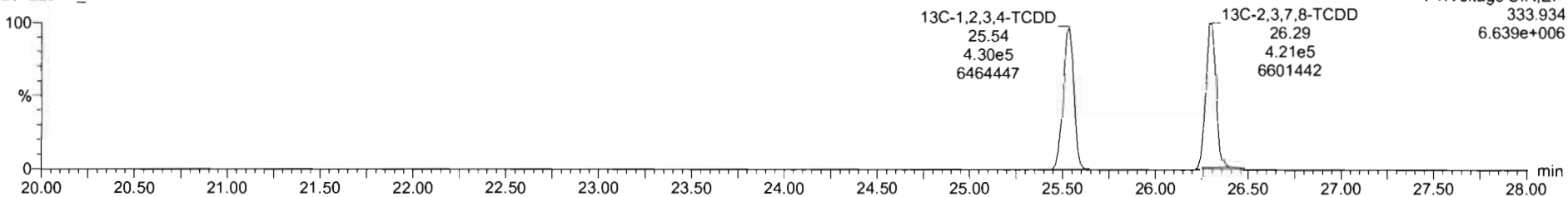


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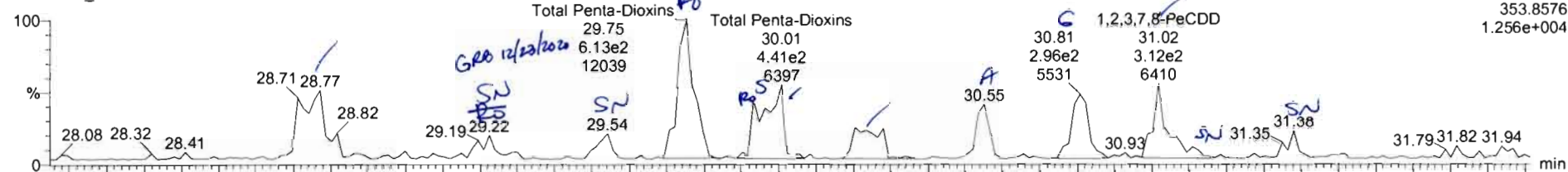
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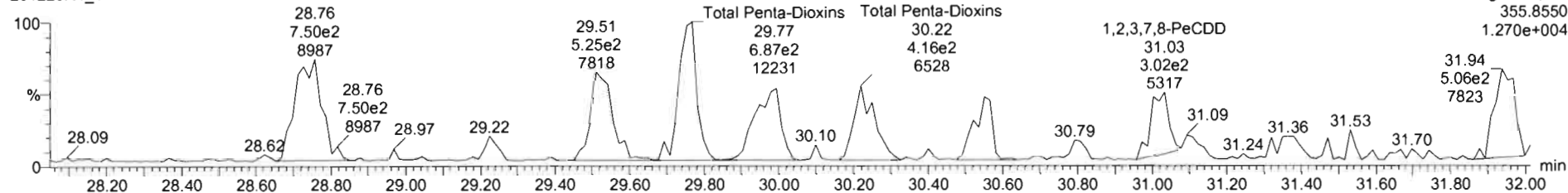
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201220R1_14



F2:Voltage SIR,EI+
353.8576
1.256e+004

201220R1_14



F2:Voltage SIR,EI+
355.8550
1.270e+004

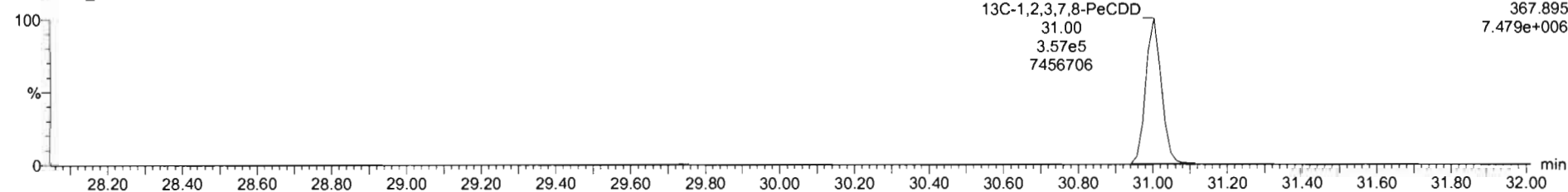
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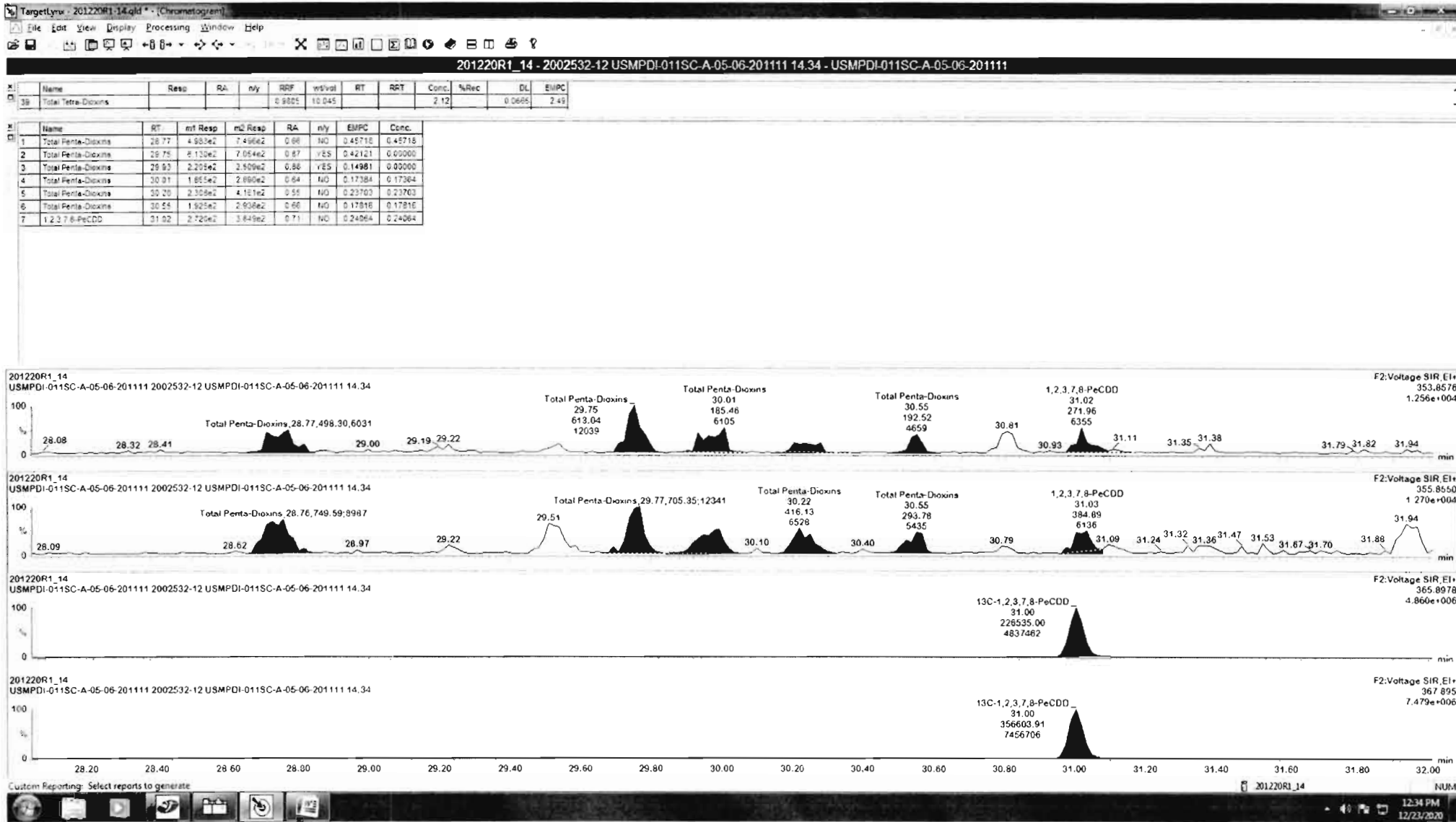


F2:Voltage SIR,EI+
365.8978
4.860e+006

201220R1_14



F2:Voltage SIR,EI+
367.895
7.479e+006



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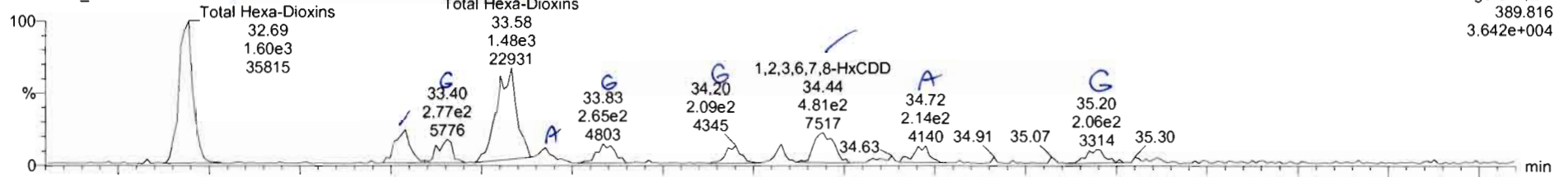
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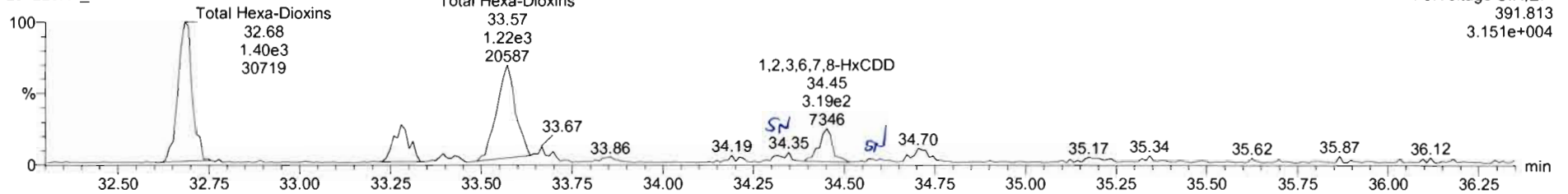
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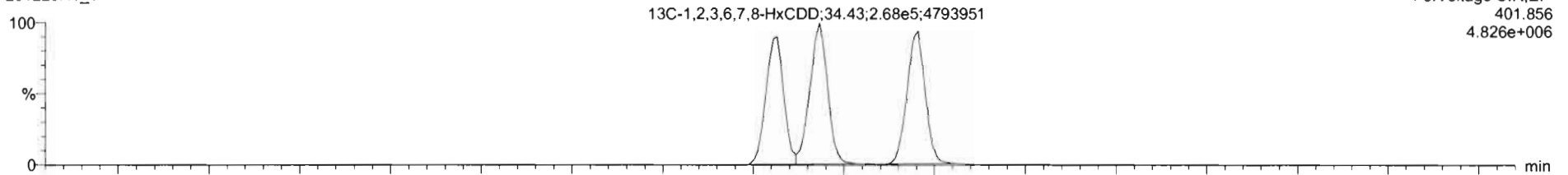


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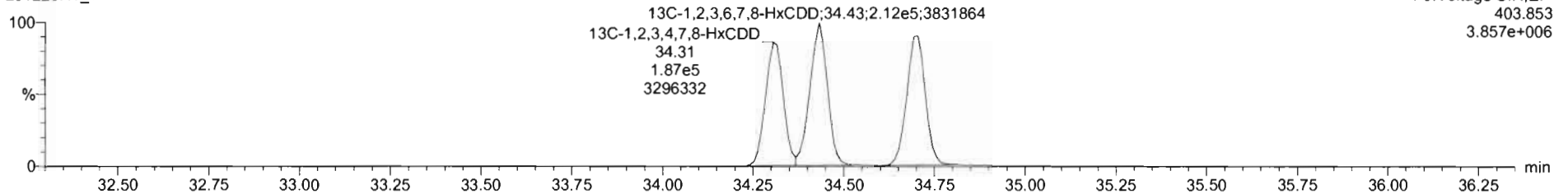


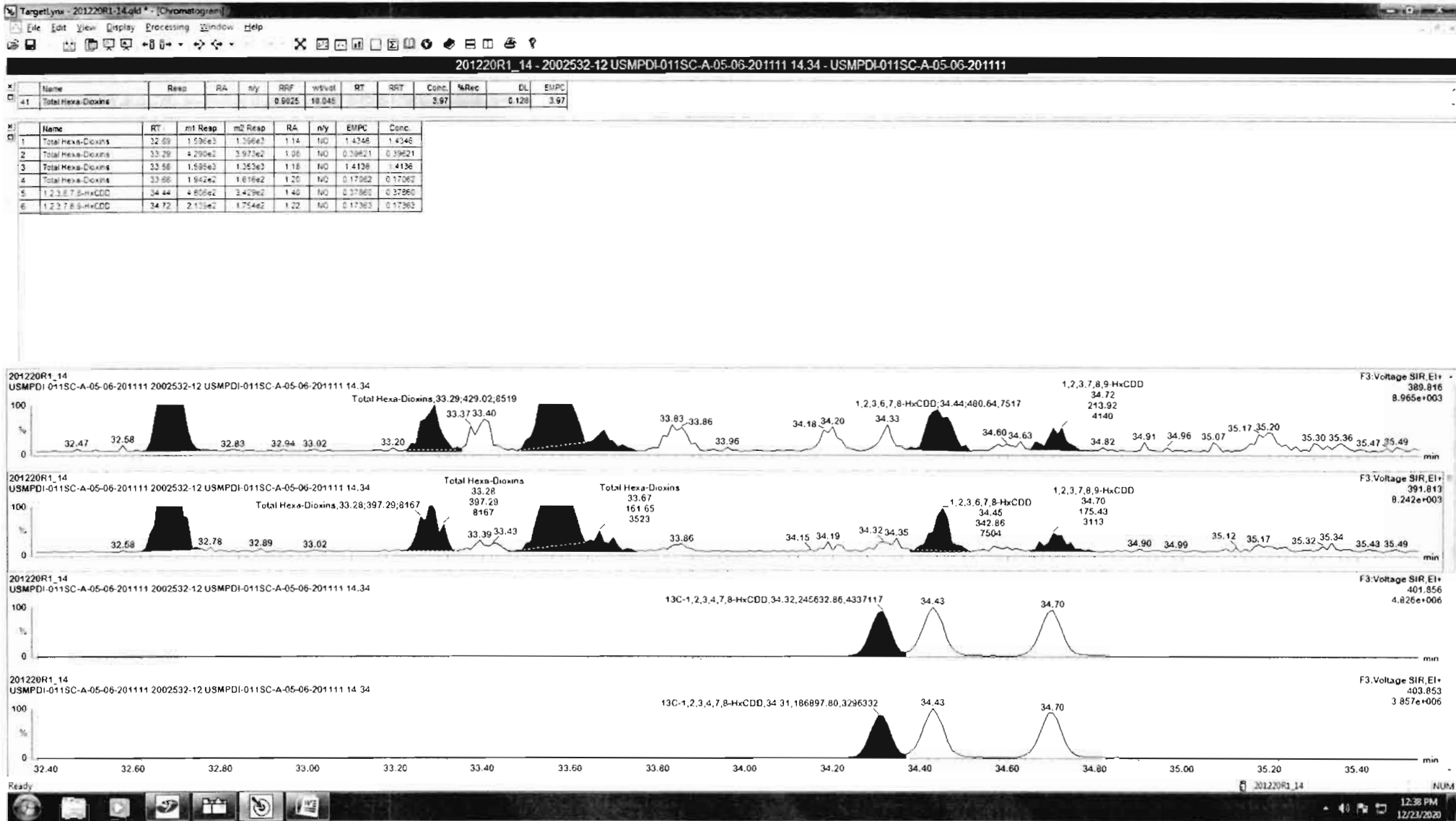
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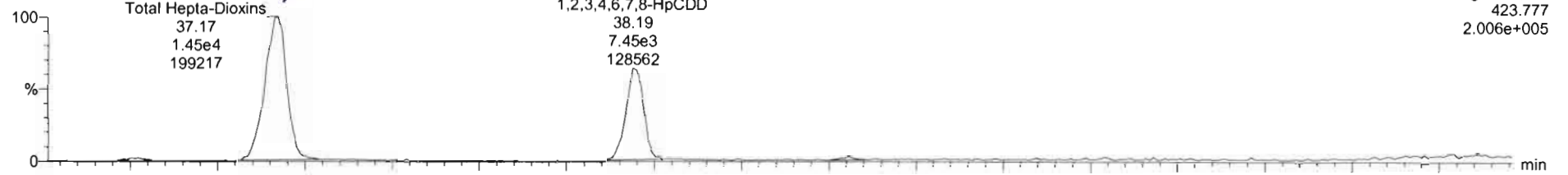
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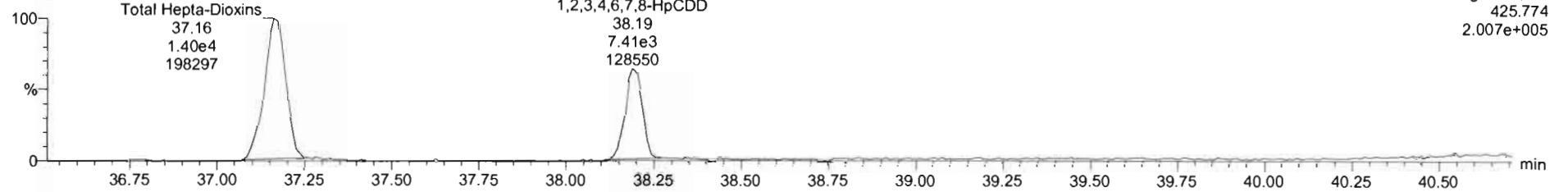
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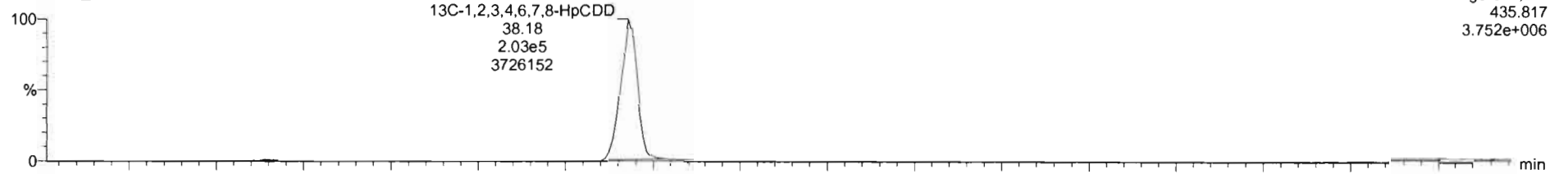


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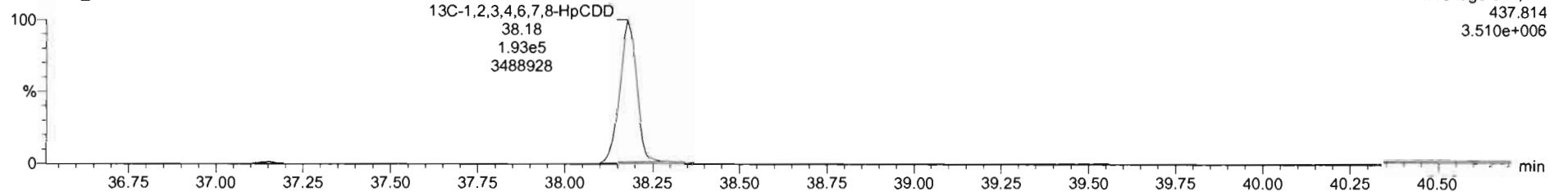


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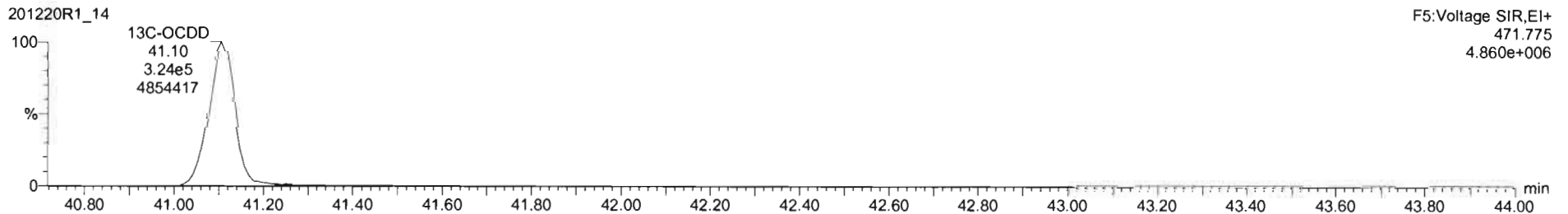
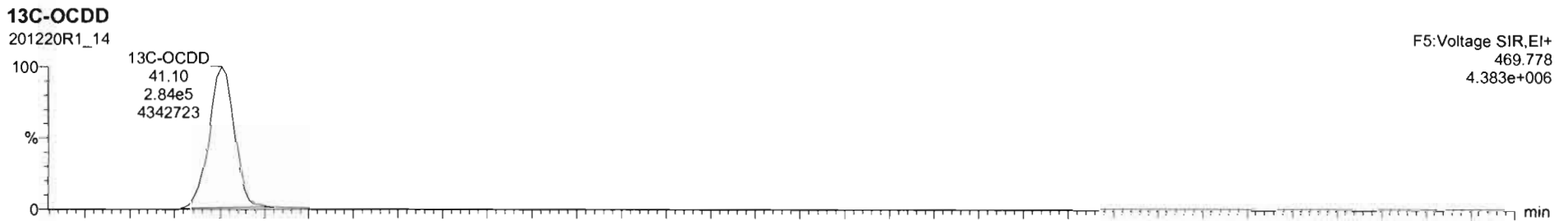
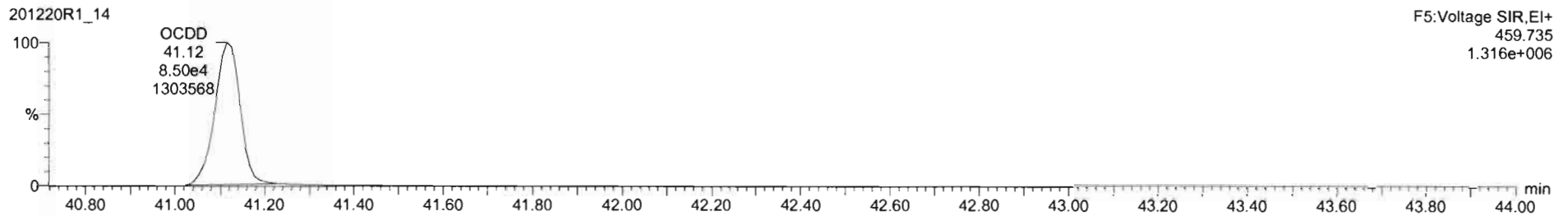
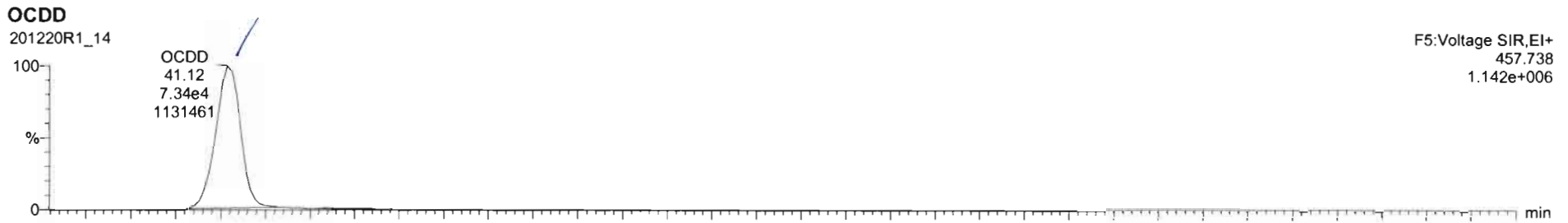
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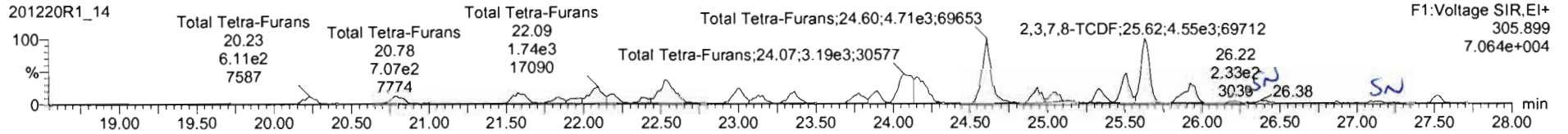
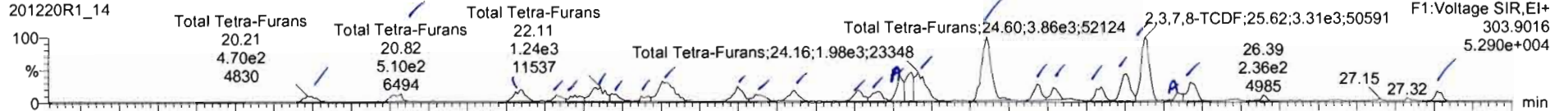


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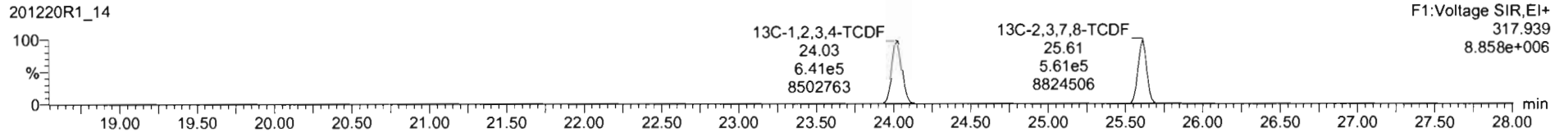
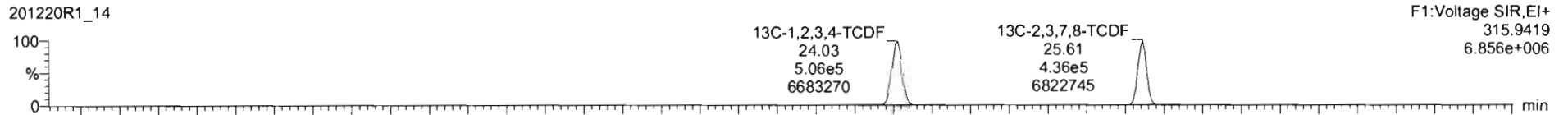
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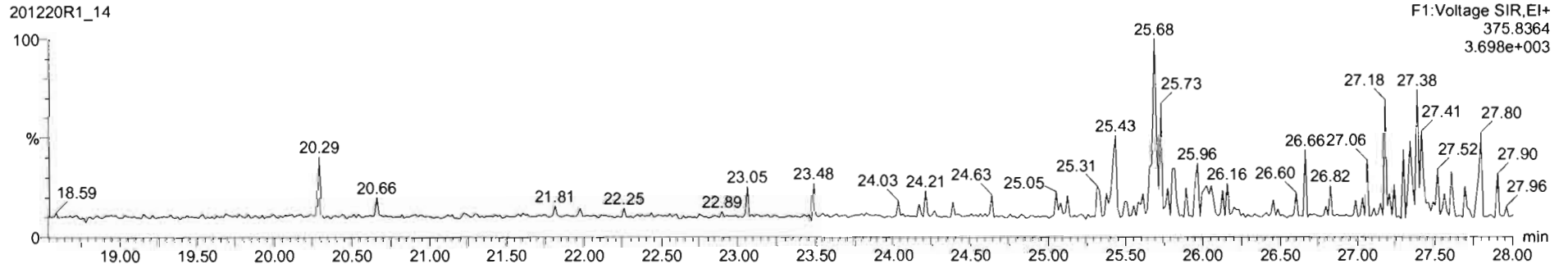
2,3,7,8-TCDF

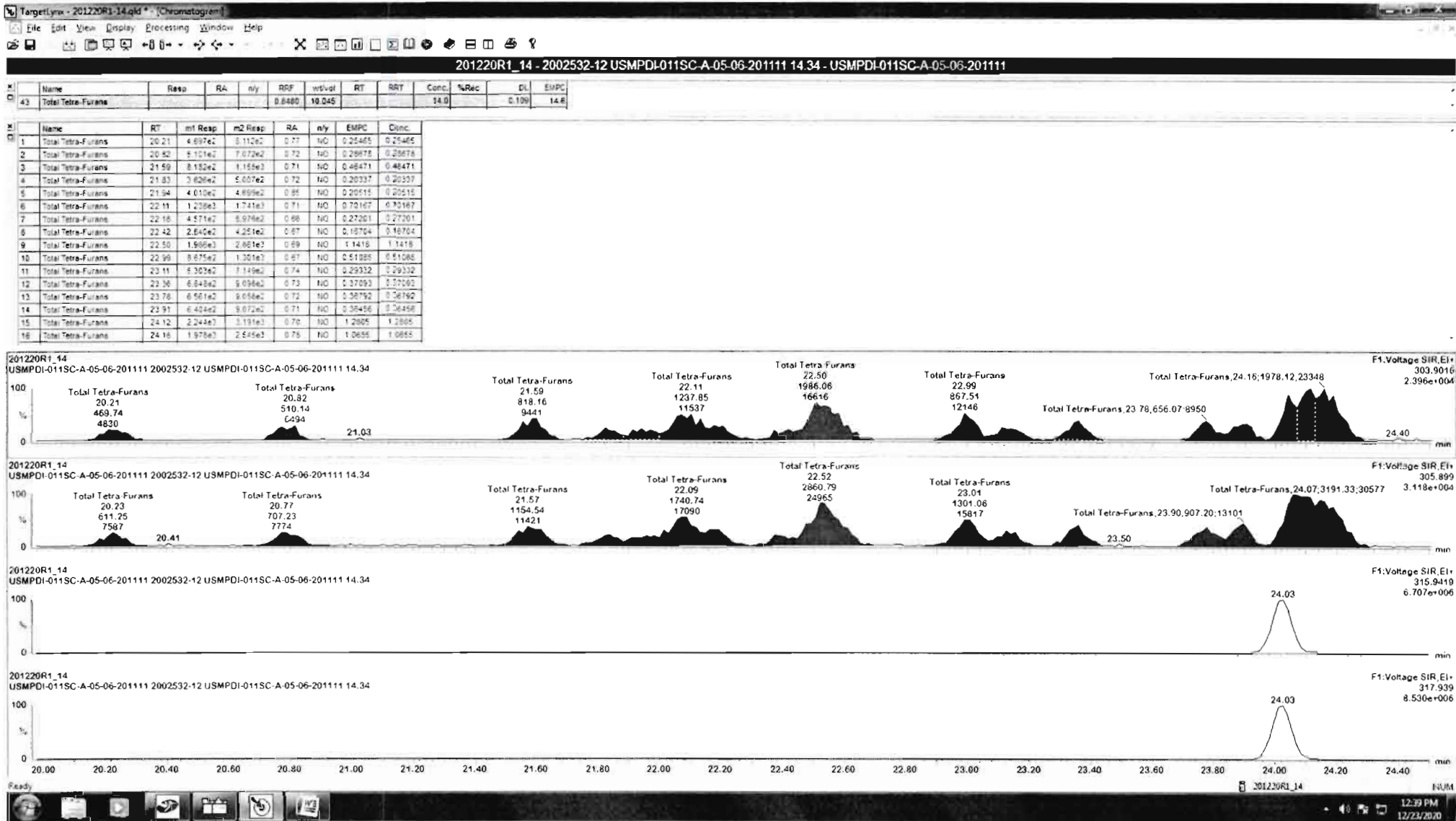


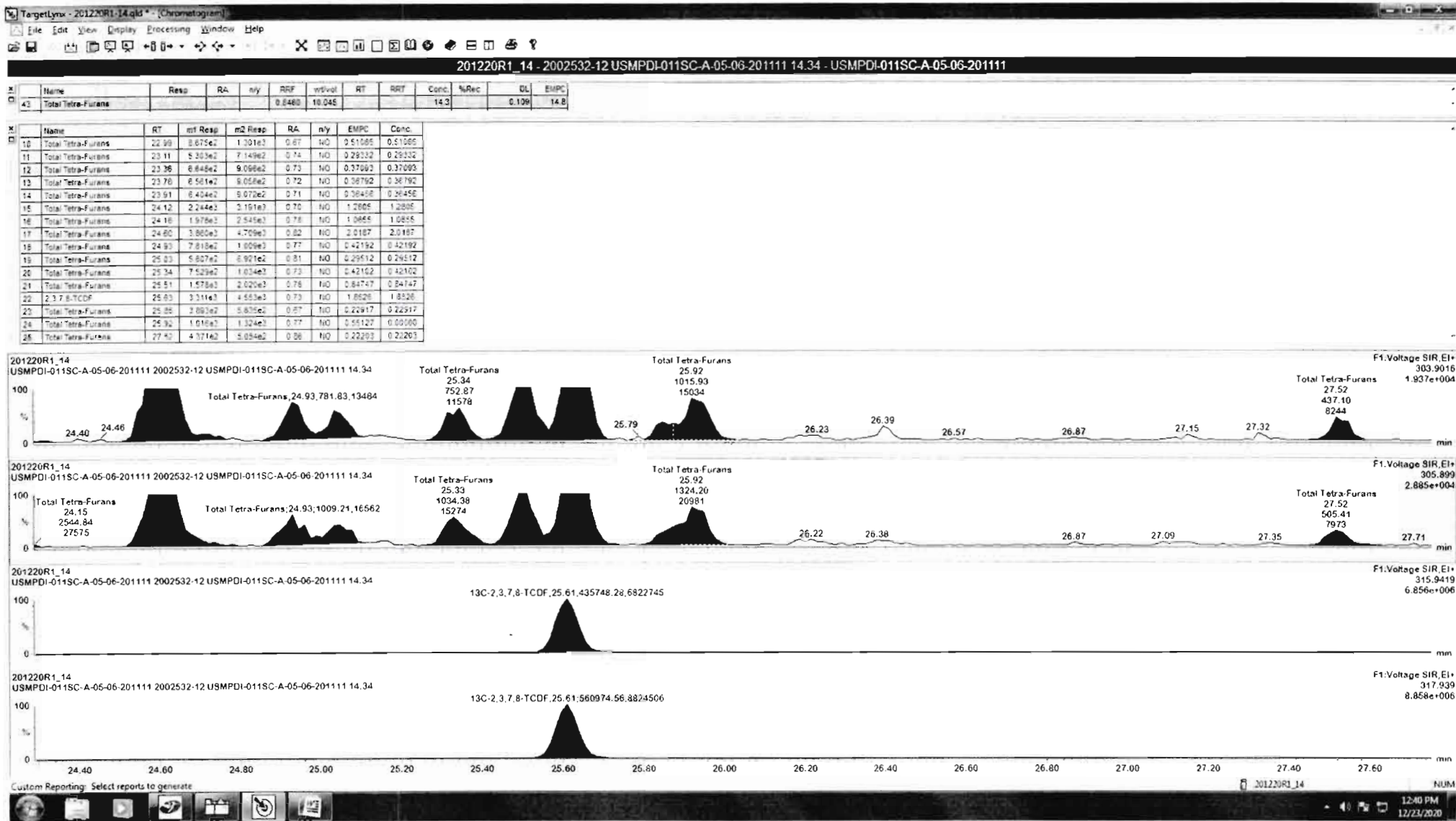
13C-2,3,7,8-TCDF



DPE1







Dataset: Untitled

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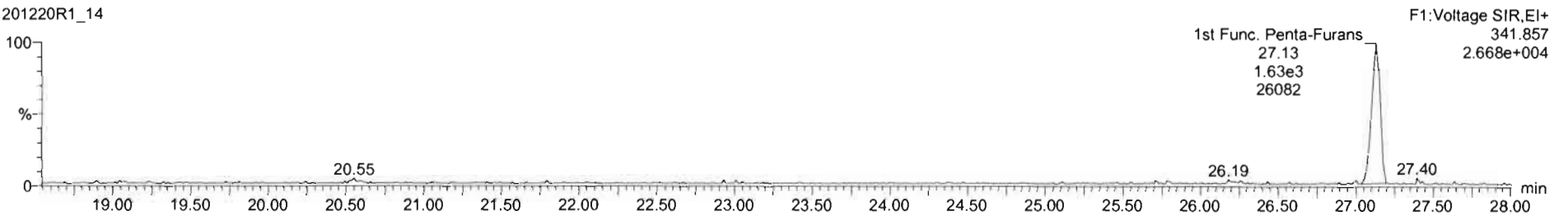
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1st Func. Penta-Furans

201220R1_14

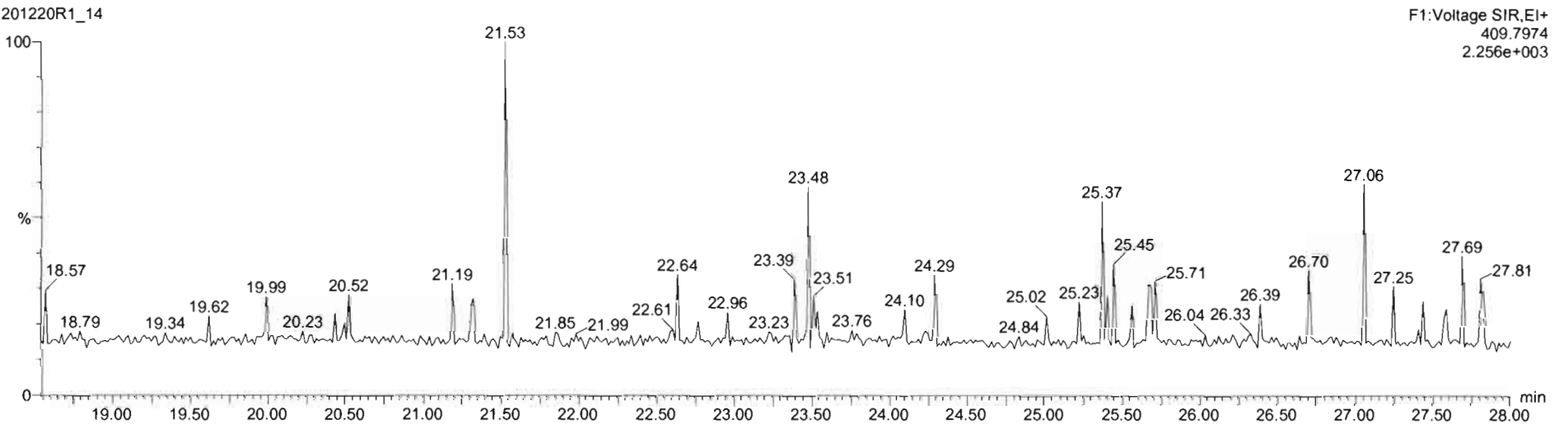


201220R1_14



DPE6

201220R1_14



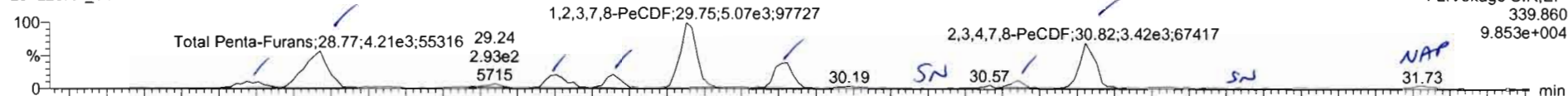
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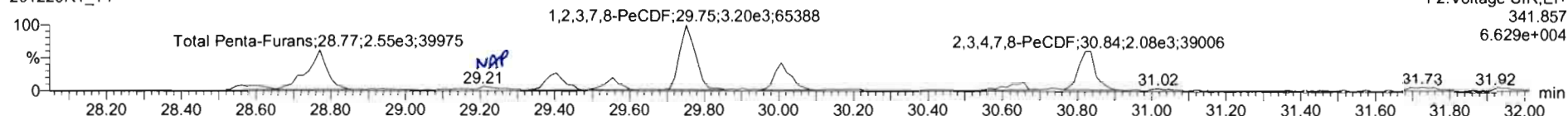
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1,2,3,7,8-PeCDF

201220R1_14

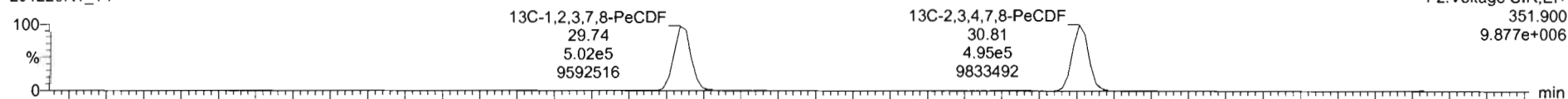


201220R1_14

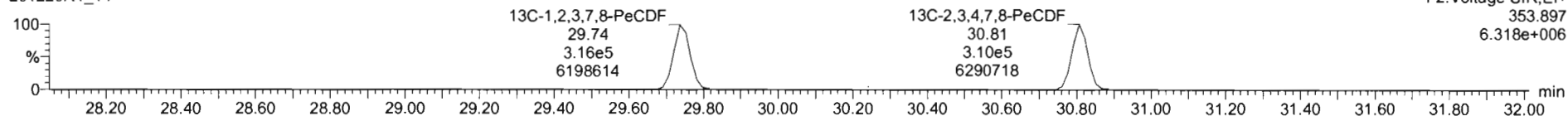


13C-1,2,3,7,8-PeCDF

201220R1_14

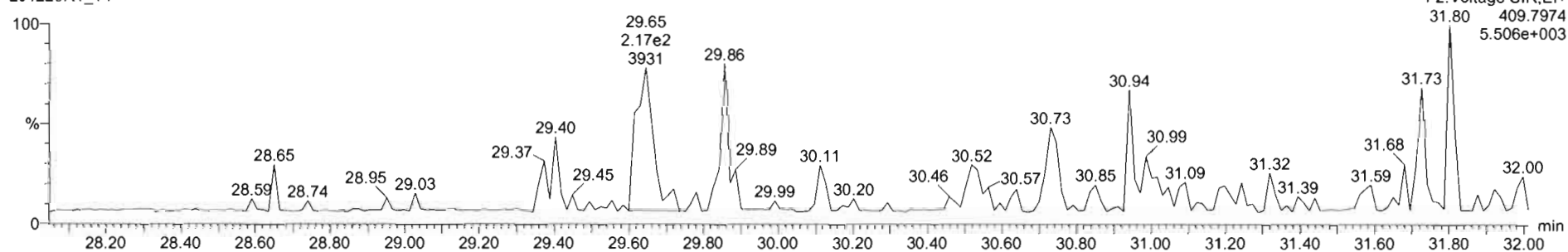


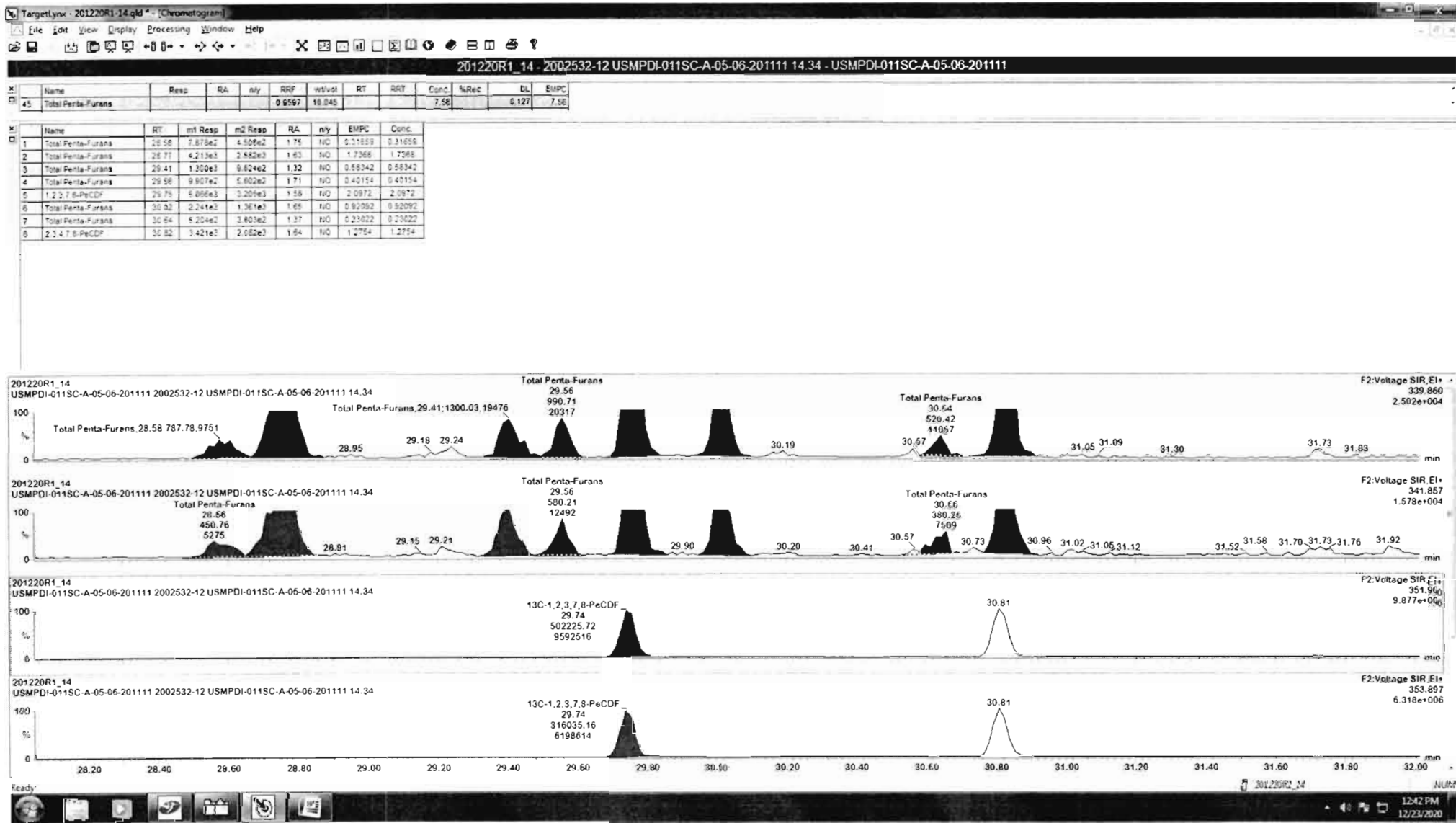
201220R1_14



DPE2

201220R1_14



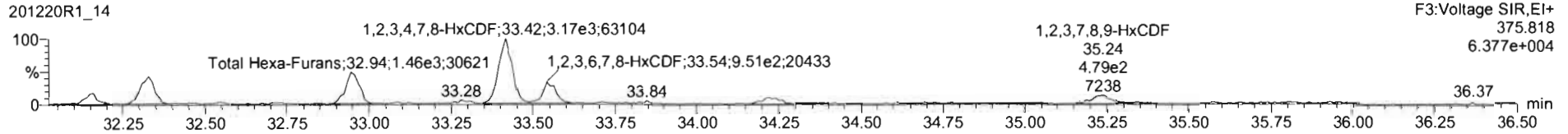
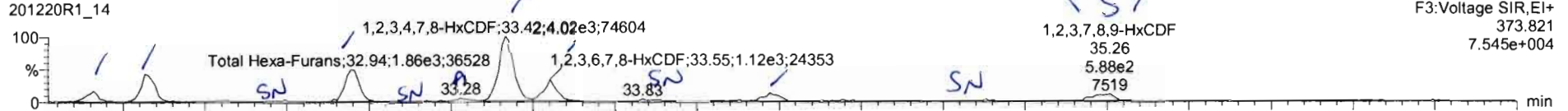


Dataset: Untitled

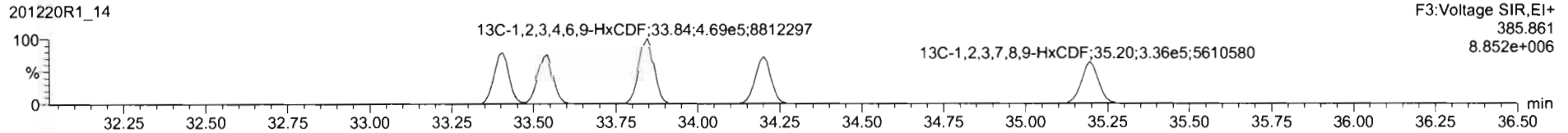
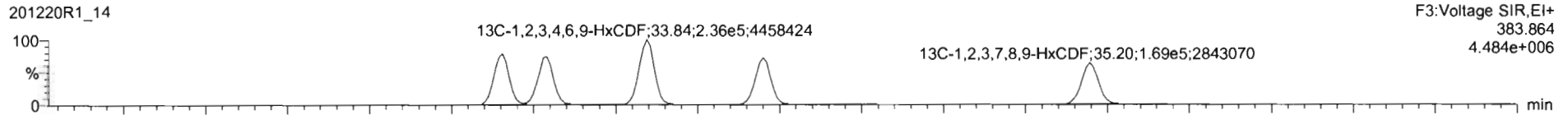
Last Altered: Monday, December 21, 2020 06:50:00 Pacific Standard Time
Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

Name: 201220R1_14, Date: 20-Dec-2020, Time: 18:07:05, ID: 2002532-12 USMPDI-011SC-A-05-06-201111 14.34, Description: USMPDI-011SC-A-05-06-201111

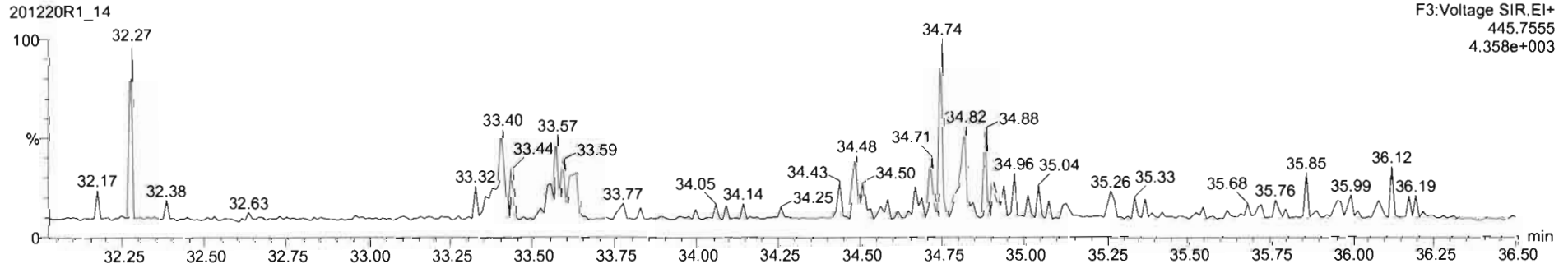
1,2,3,4,7,8-HxCDF



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

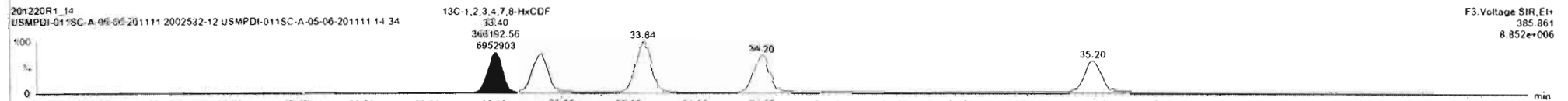
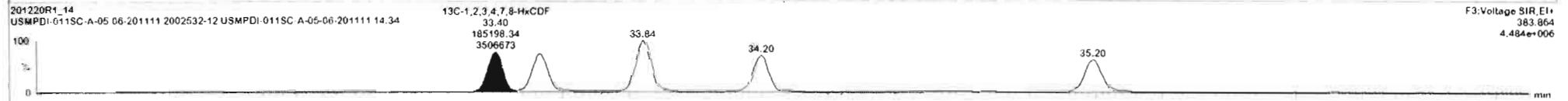
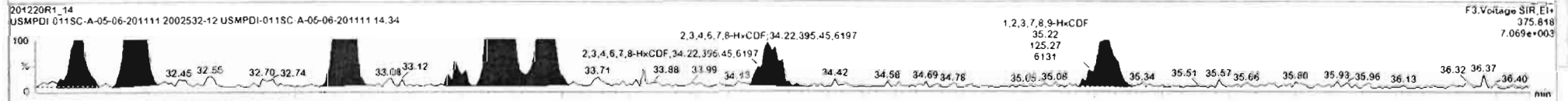
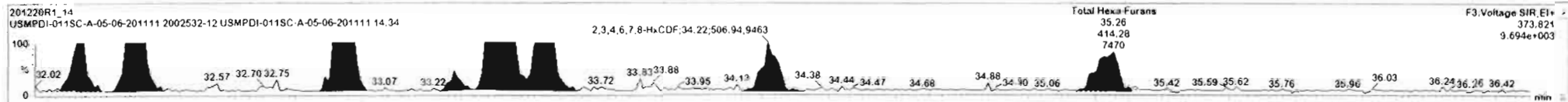


DPE3



ID	Name	Resp	RA	nly	RBF	wfVol	RT	RRT	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans				0.9587	10.045			7.56		0.127	7.56

ID	Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1	Total Hexa-Furans	32.16	3.461e2	4.753e2	1.15	NO	0.37712	0.37712
2	Total Hexa-Furans	32.32	1.582e3	1.329e2	1.19	NO	1.0740	1.0740
3	Total Hexa-Furans	32.94	1.855e3	1.459e3	1.27	NO	1.2235	1.2235
4	Total Hexa-Furans	33.26	1.398e2	1.182e2	1.16	NO	0.095258	0.095258
5	1,2,3,4,7,8-HxCDF	33.42	4.019e3	3.171e3	1.27	NO	2.8335	2.8335
6	1,2,3,7,8-HxCDF	33.55	1.123e3	9.511e2	1.18	NO	0.74426	0.74426
7	2,3,4,6,7,8-HxCDF	34.22	5.085e2	3.955e2	1.28	NO	0.33568	0.33568
8	1,2,3,7,8,9-HxCDF	35.22	1.577e2	1.251e2	1.27	NO	0.11214	0.11214
9	Total Hexa-Furans	35.26	4.147e2	3.496e2	1.19	NO	0.28263	0.28263



Dataset: Untitled

Last Altered: Monday, December 21, 2020 06:50:00 Pacific Standard Time
Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

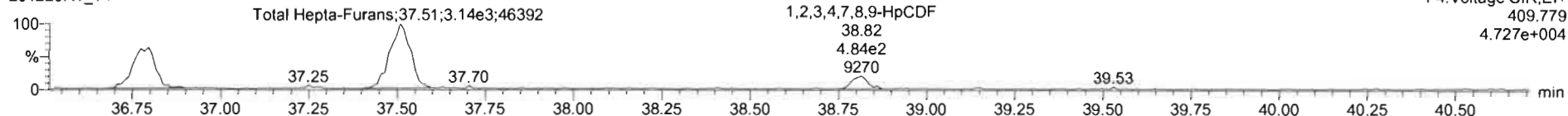
Name: 201220R1_14, Date: 20-Dec-2020, Time: 18:07:05, ID: 2002532-12 USMPDI-011SC-A-05-06-201111 14.34, Description: USMPDI-011SC-A-05-06-201111

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

201220R1_14

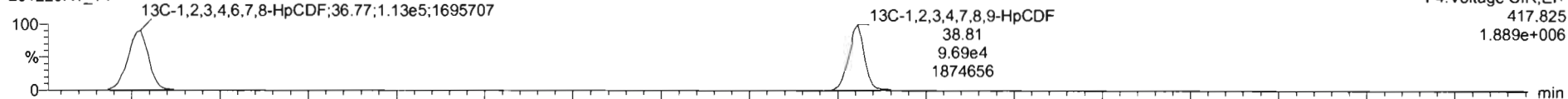


201220R1_14

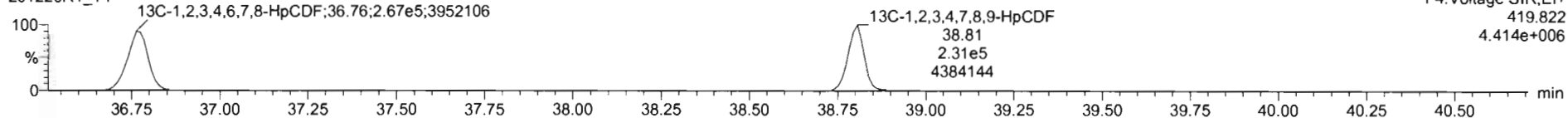


13C-1,2,3,4,6,7,8-HpCDF

201220R1_14

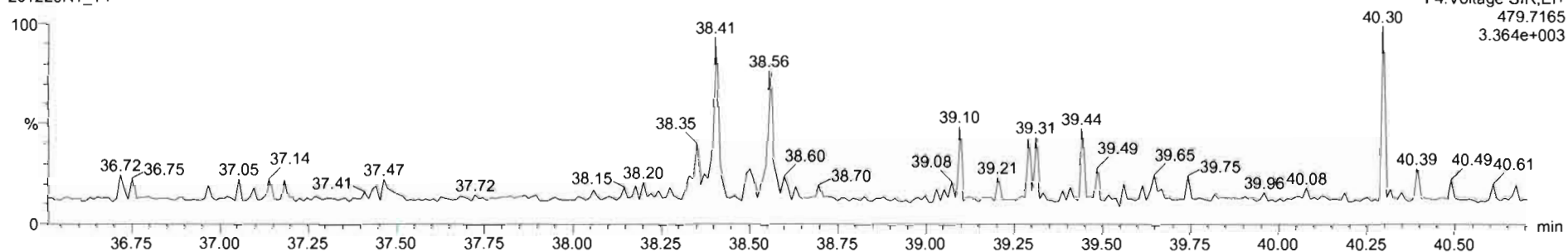


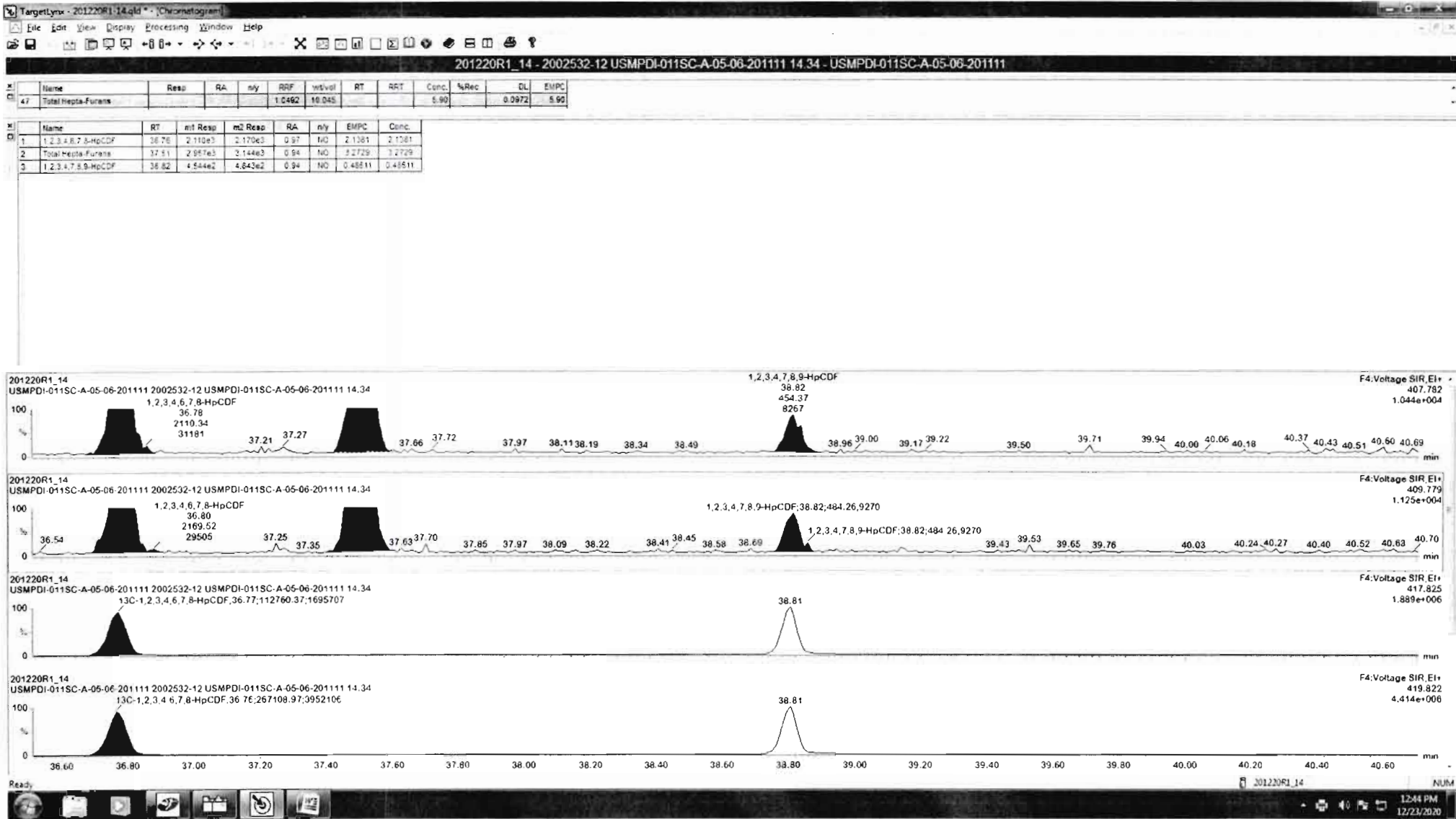
201220R1_14



DPE4

201220R1_14

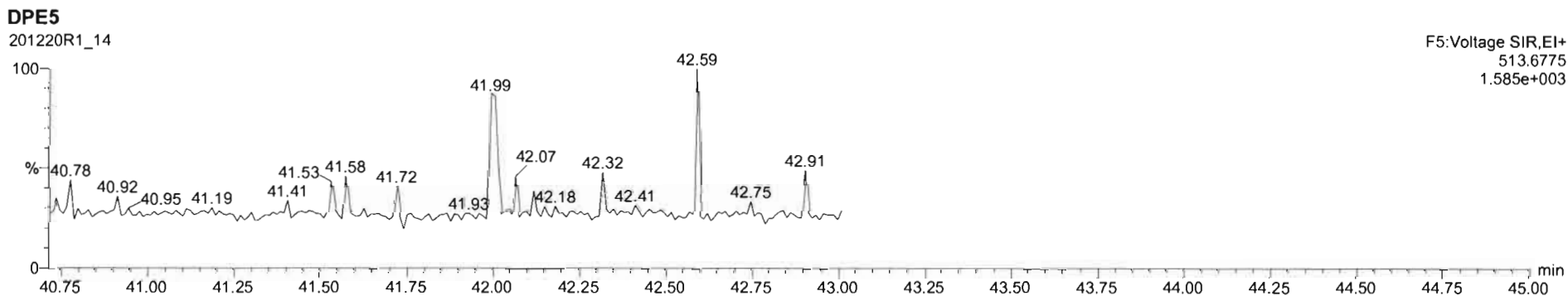
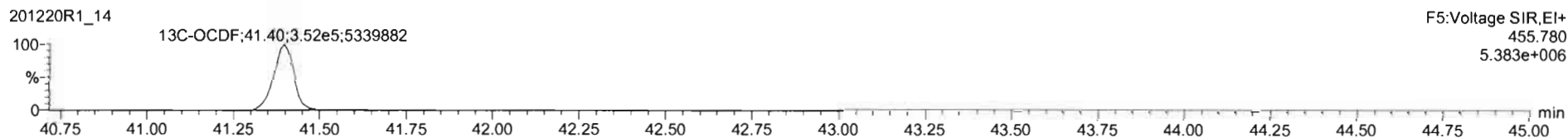
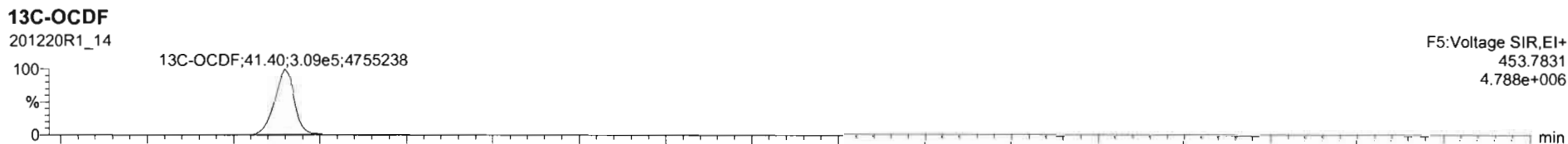
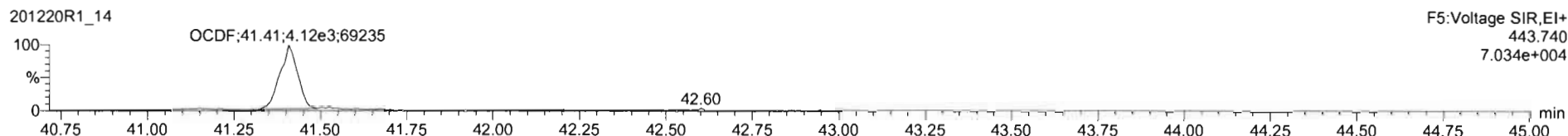
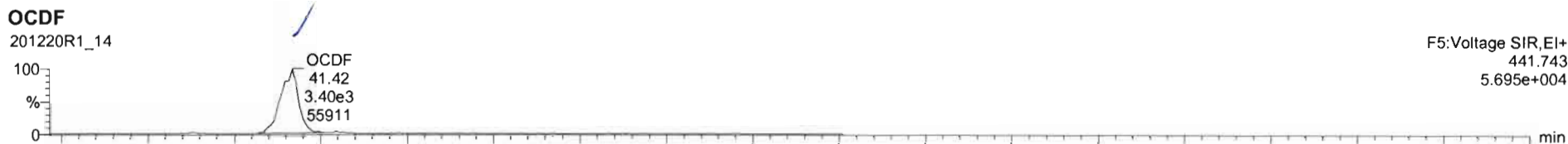




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Last Altered: Monday, December 21, 2020 06:50:00 Pacific Standard Time
Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

Name: 201220R1_14, Date: 20-Dec-2020, Time: 18:07:05, ID: 2002532-12 USMPDI-011SC-A-05-06-201111 14.34, Description: USMPDI-011SC-A-05-06-201111



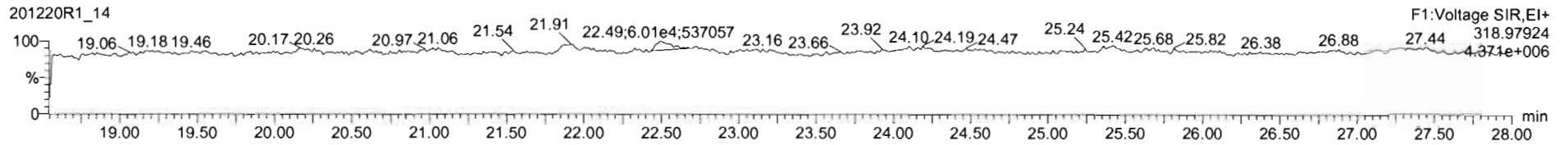
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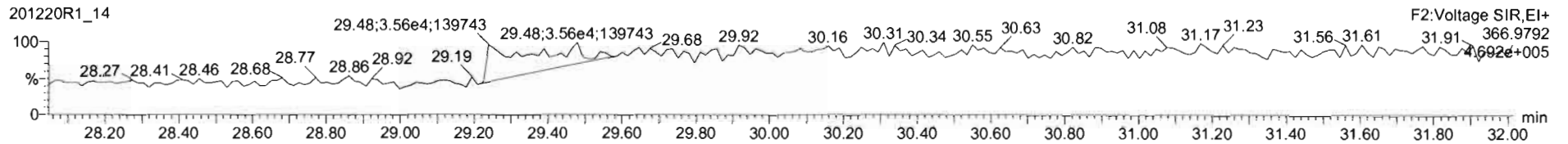
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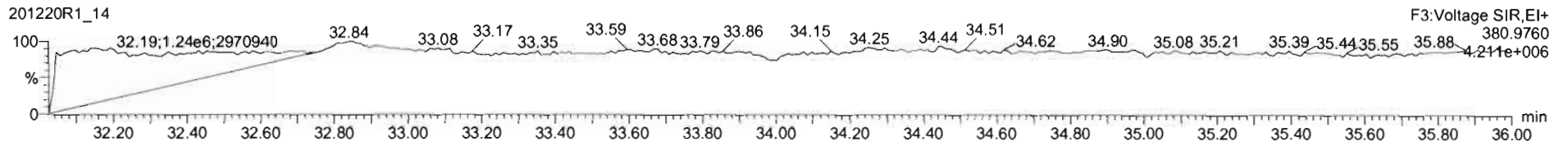
PFK1



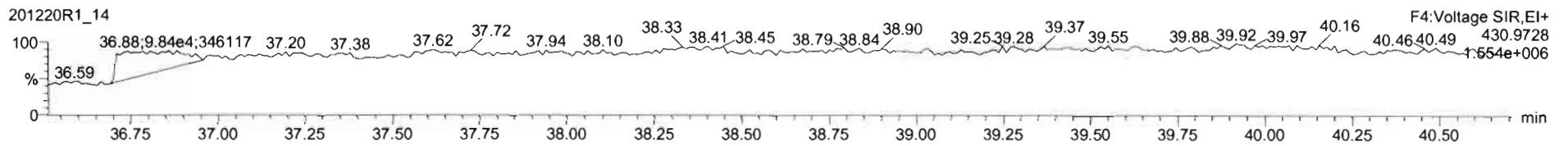
PFK2



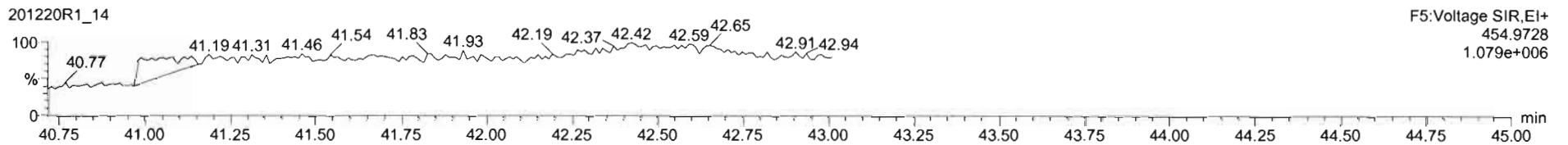
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\201220R1\201220R1-15.qld

Last Altered: Wednesday, December 23, 2020 12:54:22 PM Pacific Standard Time

Printed: Wednesday, December 23, 2020 12:54:44 PM Pacific Standard Time

GRB 12/23/2020

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

ML 12/26/20

Name: 201220R1_15, Date: 20-Dec-2020, Time: 18:51:22, ID: 2002532-13 USMPDI-011SC-A-06-07-201111 15.38, Description: USMPDI-011SC-A-06-07-201111

#	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			ND	0.980	10.108	26.236		1.001				0.0532	
2	2 1,2,3,7,8-PeCDD			NO	0.932	10.108	31.034		1.001				0.0703	
3	3 1,2,3,4,7,8-HxCDD			NO	1.02	10.108	34.337		1.001				0.0704	
4	4 1,2,3,6,7,8-HxCDD			NO	0.902	10.108	34.452		1.001				0.0752	
5	5 1,2,3,7,8,9-HxCDD			NO	0.954	10.108	34.713		1.000				0.0749	
6	6 1,2,3,4,6,7,8-HpCDD	1.38e3	1.06	NO	0.918	10.108	38.190	38.19	1.000	1.000	0.79519		0.127	0.795
7	7 OCDD			NO	0.866	10.108	41.103		1.000				0.155	
8	8 2,3,7,8-TCDF	4.84e2	0.67	NO	0.848	10.108	25.613	25.62	1.000	1.001	0.10956		0.0338	0.110
9	9 1,2,3,7,8-PeCDF	2.37e2	1.10	YES	0.960	10.108	29.754	29.77	1.000	1.001	0.054025		0.0216	0.0465
10	10 2,3,4,7,8-PeCDF	2.11e2	1.19	YES	1.07	10.108	30.844	30.84	1.001	1.000	0.046031		0.0205	0.0411
11	11 1,2,3,4,7,8-HxCDF	2.71e2	1.32	NO	0.986	10.108	33.415	33.42	1.000	1.000	0.095590		0.0260	0.0956
12	12 1,2,3,6,7,8-HxCDF			NO	1.04	10.108	33.561		1.001				0.0424	
13	13 2,3,4,6,7,8-HxCDF			NO	1.02	10.108	34.222		1.001				0.0462	
14	14 1,2,3,7,8,9-HxCDF			NO	0.991	10.108	35.206		1.000				0.0545	
15	15 1,2,3,4,6,7,8-HpCDF	3.06e2	0.71	YES	1.05	10.108	36.781	36.77	1.000	1.000	0.16341		0.0235	0.133
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.18	10.108	38.806		1.000				0.0350	
17	17 OCDF	4.38e2	0.84	NO	0.896	10.108	41.396	41.38	1.000	1.000	0.33766		0.117	0.338
18	18 13C-2,3,7,8-TCDD	7.57e5	0.78	NO	1.06	10.108	26.307	26.31	1.030	1.030	183.56	92.8	0.118	
19	19 13C-1,2,3,7,8-PeCDD	6.39e5	0.63	NO	0.785	10.108	31.139	31.00	1.219	1.214	208.40	105	0.199	
20	20 13C-1,2,3,4,7,8-HxCDD	4.38e5	1.29	NO	0.621	10.108	34.315	34.32	1.014	1.014	199.92	101	0.486	
21	21 13C-1,2,3,6,7,8-HxCDD	4.82e5	1.28	NO	0.734	10.108	34.437	34.43	1.017	1.017	186.00	94.0	0.411	
22	22 13C-1,2,3,7,8,9-HxCDD	4.65e5	1.26	NO	0.723	10.108	34.722	34.70	1.026	1.025	182.43	92.2	0.418	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.75e5	1.05	NO	0.568	10.108	38.219	38.18	1.129	1.128	187.09	94.6	0.786	
24	24 13C-OCDD	5.08e5	0.90	NO	0.496	10.108	41.154	41.10	1.216	1.214	290.27	73.4	0.662	
25	25 13C-2,3,7,8-TCDF	1.03e6	0.77	NO	0.919	10.108	25.608	25.61	1.003	1.003	191.44	96.8	0.207	
26	26 13C-1,2,3,7,8-PeCDF	9.04e5	1.57	NO	0.715	10.108	29.852	29.75	1.169	1.165	215.86	109	0.450	
27	27 13C-2,3,4,7,8-PeCDF	8.49e5	1.61	NO	0.689	10.108	30.937	30.82	1.212	1.207	210.70	106	0.467	
28	28 13C-1,2,3,4,7,8-HxCDF	5.69e5	0.51	NO	0.873	10.108	33.422	33.40	0.987	0.987	184.61	93.3	0.494	
29	29 13C-1,2,3,6,7,8-HxCDF	5.51e5	0.51	NO	0.933	10.108	33.550	33.54	0.991	0.991	167.22	84.5	0.462	
30	30 13C-2,3,4,6,7,8-HxCDF	5.34e5	0.51	NO	0.843	10.108	34.217	34.20	1.011	1.010	179.46	90.7	0.512	
31	31 13C-1,2,3,7,8,9-HxCDF	4.97e5	0.51	NO	0.780	10.108	35.216	35.19	1.040	1.040	180.41	91.2	0.553	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201220R1\201220R1-15.qld

Last Altered: Wednesday, December 23, 2020 12:54:22 PM Pacific Standard Time

Printed: Wednesday, December 23, 2020 12:54:44 PM Pacific Standard Time

Name: 201220R1_15, Date: 20-Dec-2020, Time: 18:51:22, ID: 2002532-13 USMPDI-011SC-A-06-07-201111 15.38, Description: USMPDI-011SC-A-06-07-201111

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.53e5	0.43	NO	0.726	10.108	36.790	36.76	1.087	1.086	137.66	69.6	0.595	
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.13e5	0.43	NO	0.491	10.108	38.798	38.79	1.146	1.146	180.64	91.3	0.880	
34	34 13C-OCDF	5.73e5	0.88	NO	0.565	10.108	41.371	41.39	1.222	1.223	287.23	72.6	0.525	
35	35 37Cl-2,3,7,8-TCDD	3.47e5			1.22	10.108	26.302	26.32	1.030	1.031	73.040	92.3	0.0267	
36	36 13C-1,2,3,4-TCDD	7.73e5	0.78	NO	1.00	10.108	25.640	25.54	1.000	1.000	197.86	100	0.124	
37	37 13C-1,2,3,4-TCDF	1.16e6	0.78	NO	1.00	10.108	24.130	24.03	1.000	1.000	197.86	100	0.190	
38	38 13C-1,2,3,4,6,9-HxCDF	6.99e5	0.51	NO	1.00	10.108	33.920	33.85	1.000	1.000	197.86	100	0.432	
39	39 Total Tetra-Dioxins				0.980	10.108	24.620		0.000		0.062957		0.0203	0.0630
40	40 Total Penta-Dioxins				0.932	10.108	29.960		0.000				0.0248	
41	41 Total Hexa-Dioxins				0.902	10.108	33.635		0.000		0.29775		0.0779	0.298
42	42 Total Hepta-Dioxins				0.918	10.108	37.640		0.000		1.9547		0.127	1.95
43	43 Total Tetra-Furans				0.848	10.108	23.610		0.000		0.23291		0.0338	0.233
44	44 1st Func. Penta-Furans				0.960	10.108	26.930		0.000				0.00639	
45	45 Total Penta-Furans				0.960	10.108	29.275		0.000		0.00000		0.0222	0.0876
46	46 Total Hexa-Furans				1.02	10.108	33.555		0.000		0.20883		0.0274	0.209
47	47 Total Hepta-Furans				1.05	10.108	37.835		0.000		0.00000		0.0219	0.276

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201220R1\201220R1-15.qld

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Printed: Wednesday, December 23, 2020 12:54:44 PM Pacific Standard Time

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Name: 201220R1_15, Date: 20-Dec-2020, Time: 18:51:22, ID: 2002532-13 USMPDI-011SC-A-06-07-201111 15.38, Description: USMPDI-011SC-A-06-07-201111

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	24.21	1.565e3	1.422e3	1.065e2	1.298e2	0.82	NO	2.363e2	0.062957	0.062957	0.0203

Penta-Dioxins

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

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.69	7.999e3	6.647e3	3.567e2	2.706e2	1.32	NO	6.272e2	0.29775	0.29775	0.0779

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.16	1.535e4	1.651e4	1.022e3	9.953e2	1.03	NO	2.018e3	1.1595	1.1595	0.127
2	1,2,3,4,6,7,8-HpCDD	38.19	1.251e4	1.201e4	7.134e2	6.703e2	1.06	NO	1.384e3	0.79519	0.79519	0.127

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.56	3.146e3	4.255e3	2.213e2	3.231e2	0.68	NO	5.444e2	0.12335	0.12335	0.0338
2	2,3,7,8-TCDF	25.62	2.662e3	5.267e3	1.947e2	2.888e2	0.67	NO	4.835e2	0.10956	0.10956	0.0338

Penta-Furans function 1

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

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201220R1\201220R1-15.qld

Last Altered: Wednesday, December 23, 2020 12:54:22 PM Pacific Standard Time

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Name: 201220R1_15, Date: 20-Dec-2020, Time: 18:51:22, ID: 2002532-13 USMPDI-011SC-A-06-07-201111 15.38, Description: USMPDI-011SC-A-06-07-201111

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	29.77	3.089e3	2.602e3	1.238e2	1.129e2	1.10	YES	2.367e2	0.00000	0.046481	0.0216
2	2,3,4,7,8-PeCDF	30.84	2.210e3	2.085e3	1.144e2	9.641e1	1.19	YES	2.108e2	0.00000	0.041097	0.0205

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.34	1.643e3	1.836e3	7.995e1	5.867e1	1.36	NO	1.386e2	0.049984	0.049984	0.0274
2	Total Hexa-Furans	32.95	1.836e3	2.041e3	9.617e1	7.925e1	1.21	NO	1.754e2	0.063256	0.063256	0.0274
3	1,2,3,4,7,8-HxCDF	33.42	2.849e3	4.099e3	1.545e2	1.167e2	1.32	NO	2.712e2	0.095590	0.095590	0.0260

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	36.77	3.089e3	3.399e3	1.266e2	1.793e2	0.71	YES	3.060e2	0.00000	0.13266	0.0235
2	Total Hepta-Furans	37.51	2.758e3	2.824e3	1.294e2	1.919e2	0.67	YES	0.000e0	0.00000	0.14366	0.0219

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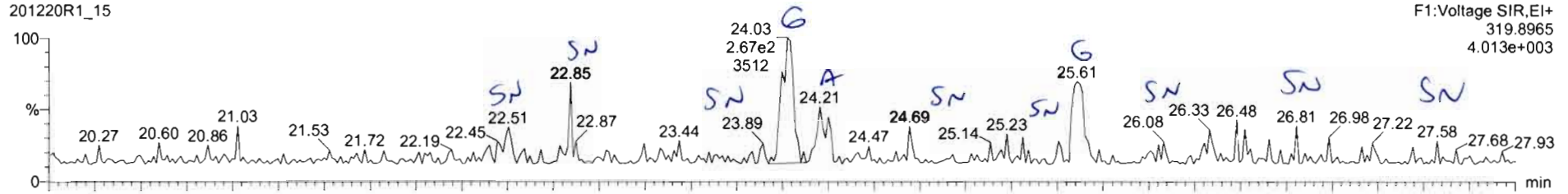
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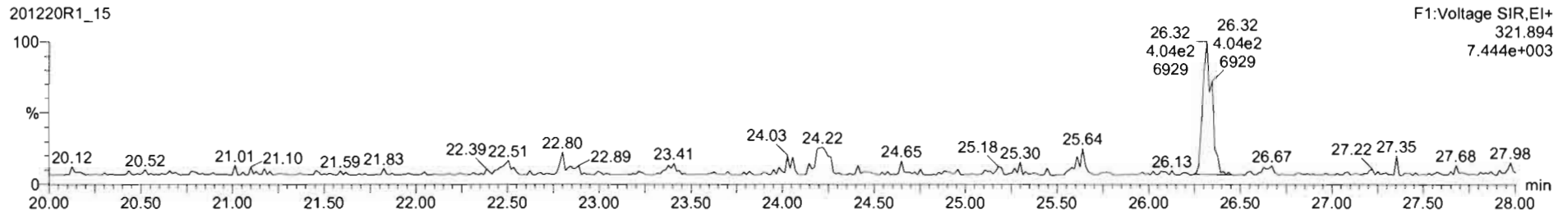
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2,3,7,8-TCDD

201220R1_15

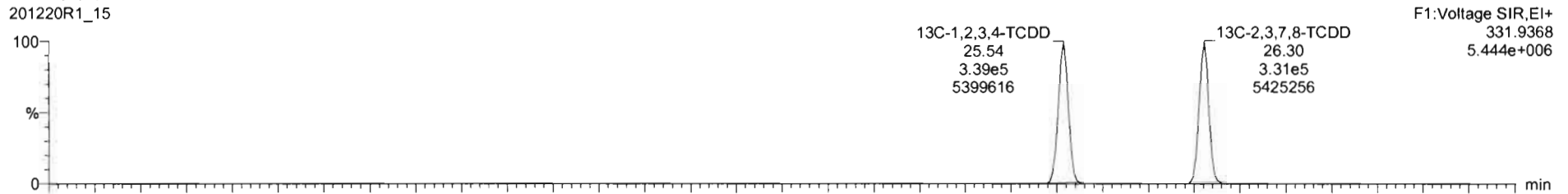


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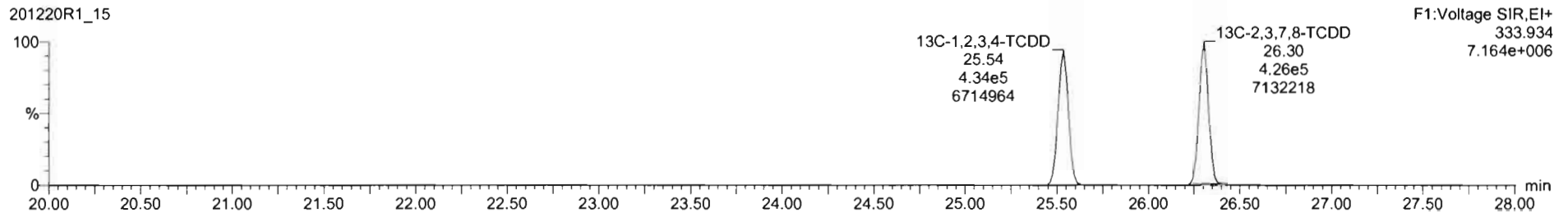


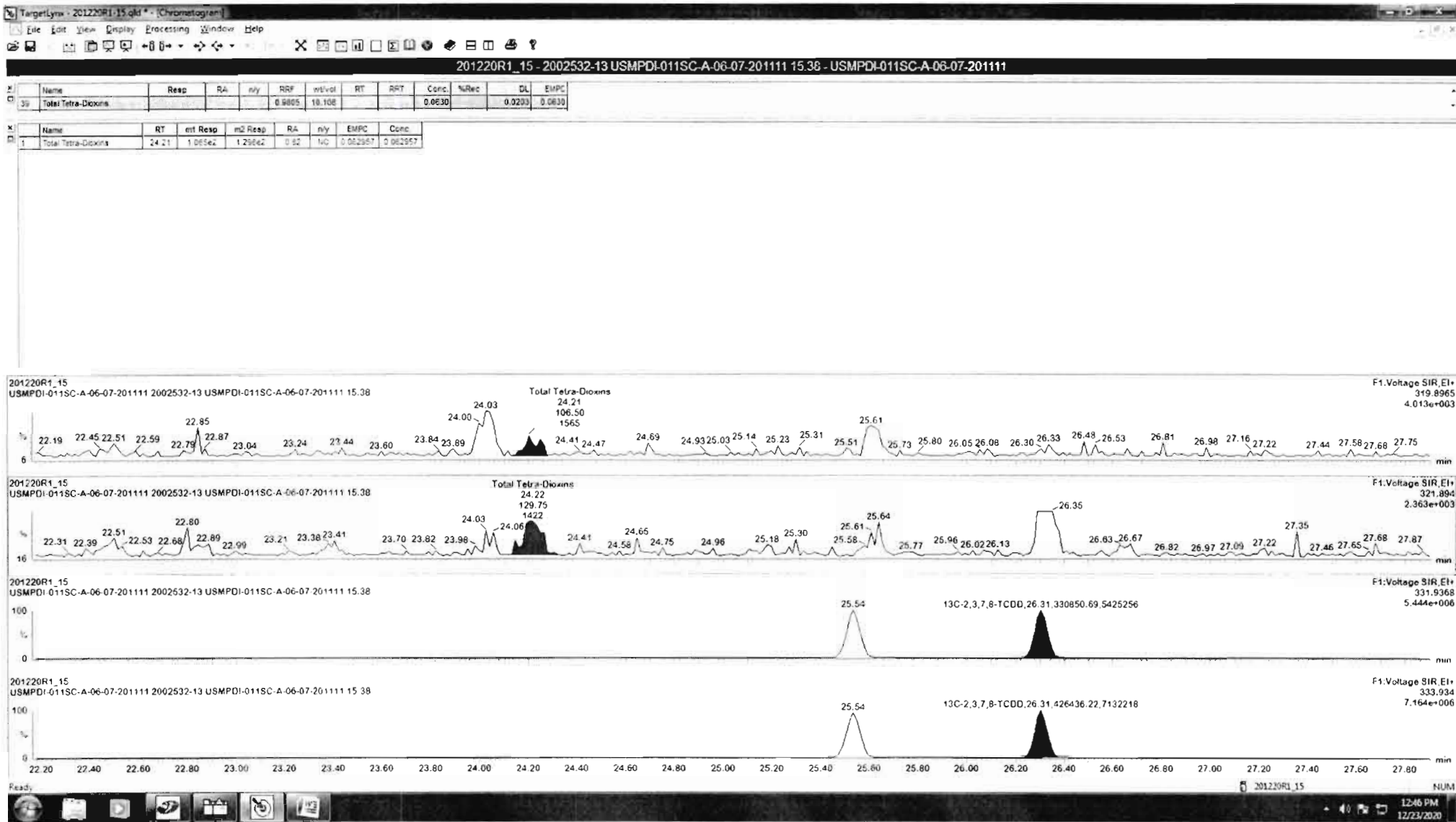
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201220R1_15



201220R1_15





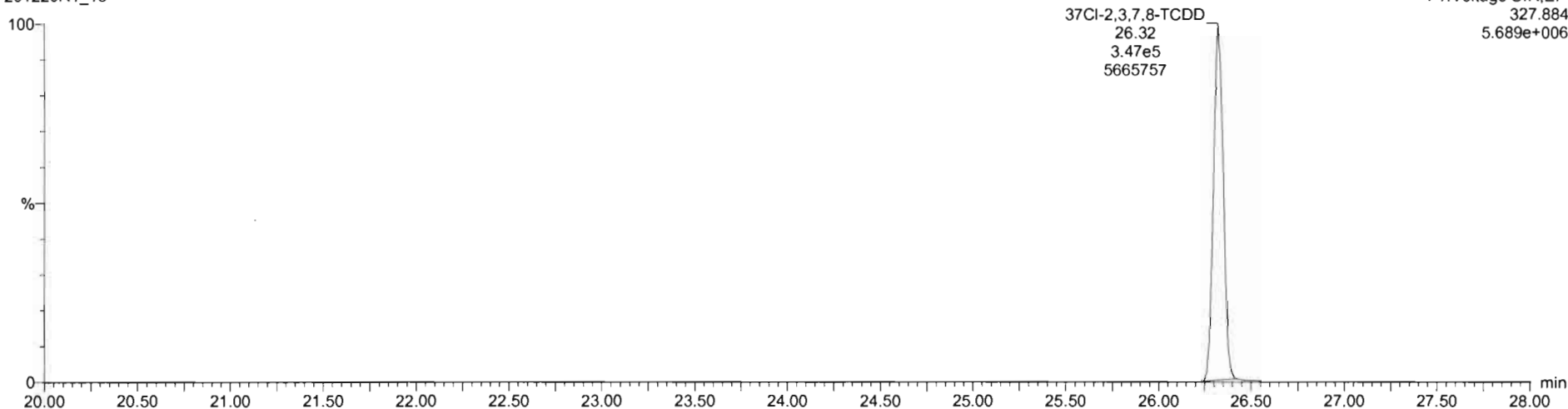
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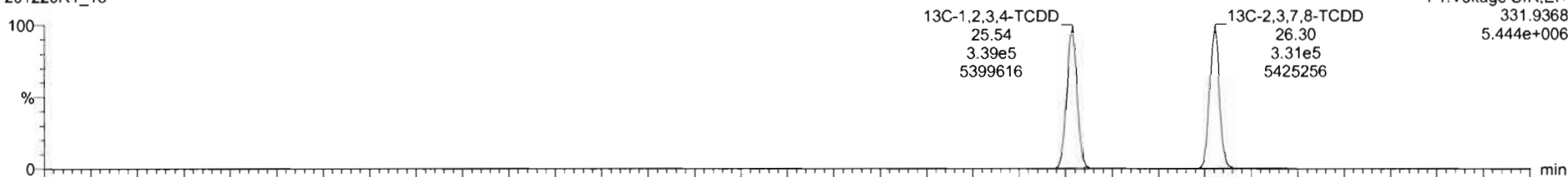
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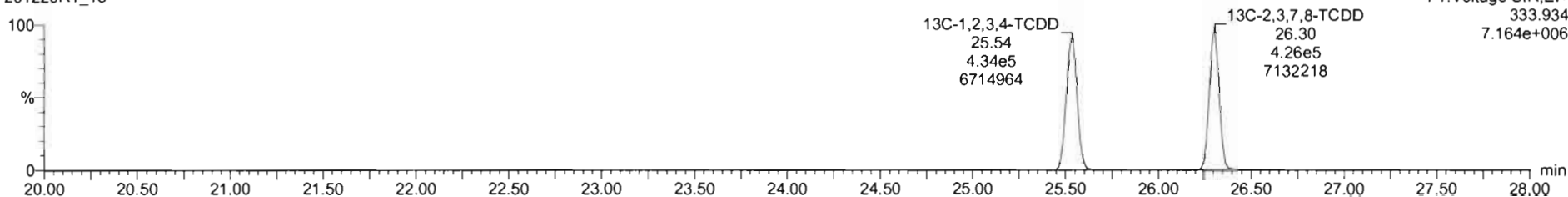


13C-1,2,3,4-TCDD

201220R1_15



201220R1_15



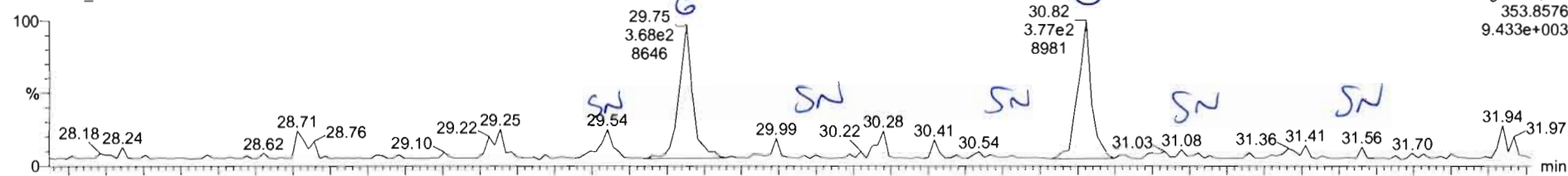
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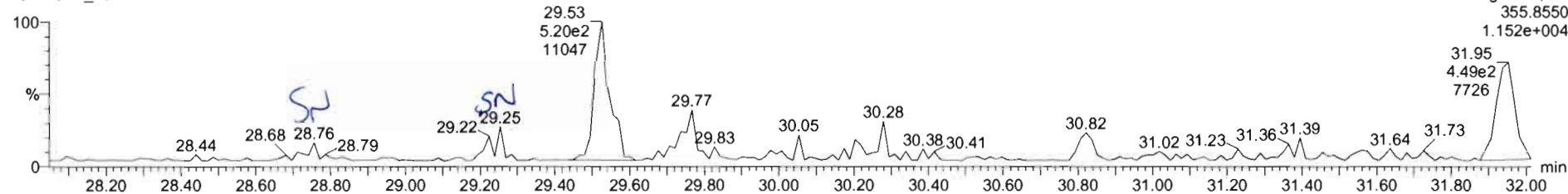
1,2,3,7,8-PeCDD

201220R1_15



F2:Voltage SIR,EI+
353.8576
9.433e+003

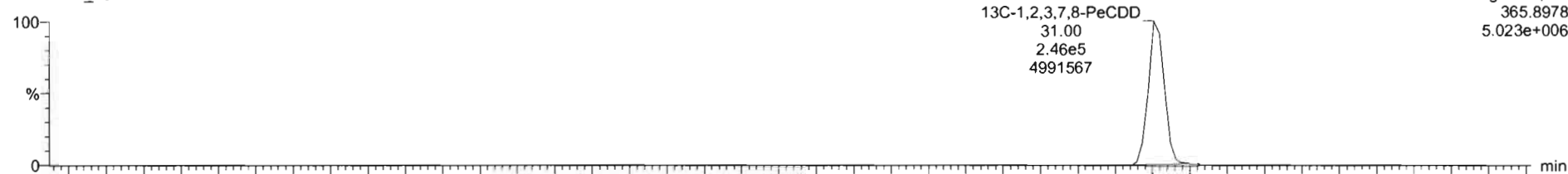
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355.8550
1.152e+004

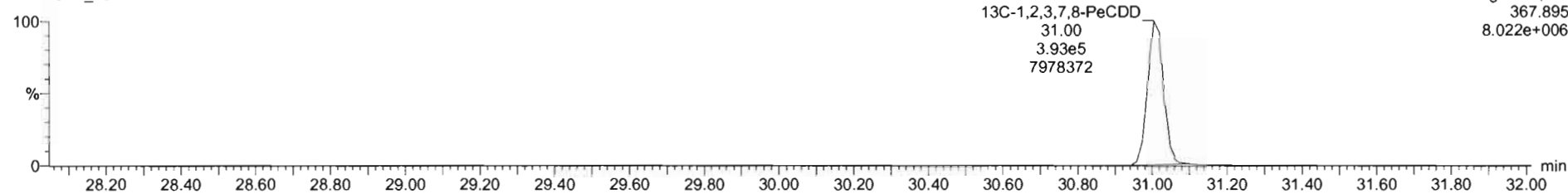
13C-1,2,3,7,8-PeCDD

201220R1_15



F2:Voltage SIR,EI+
365.8978
5.023e+006

201220R1_15



F2:Voltage SIR,EI+
367.895
8.022e+006

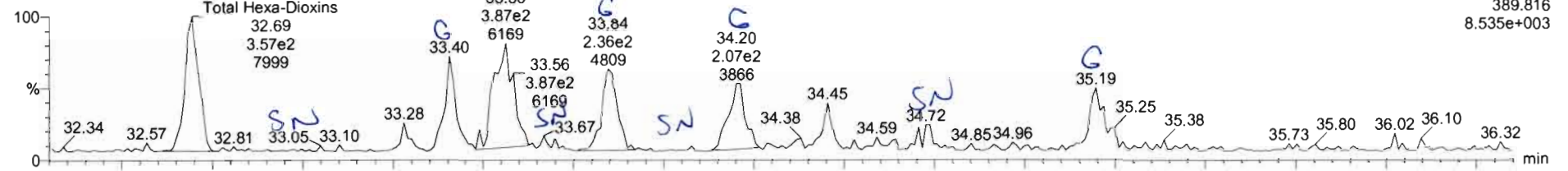
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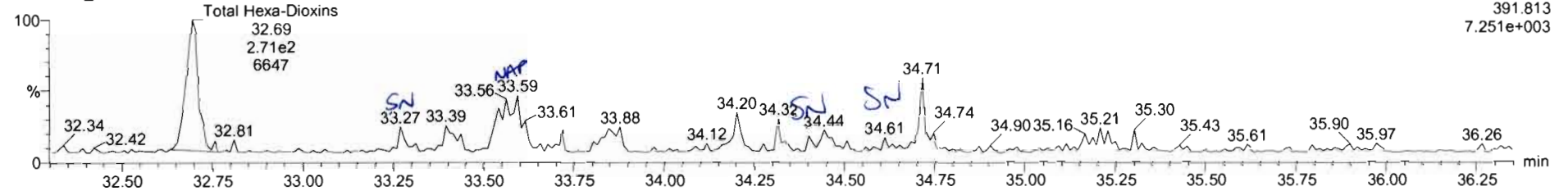
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1,2,3,4,7,8-HxCDD

201220R1_15

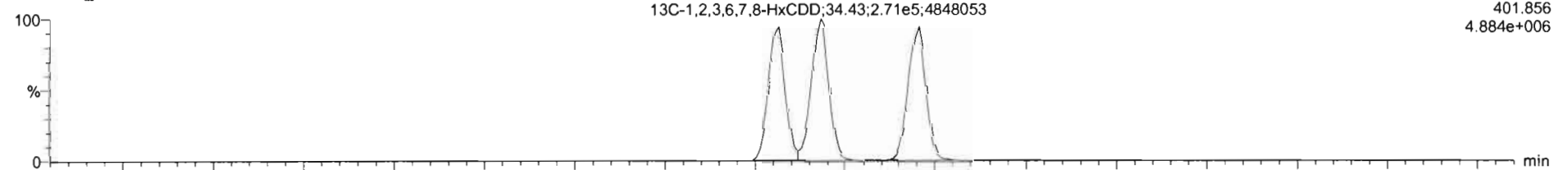


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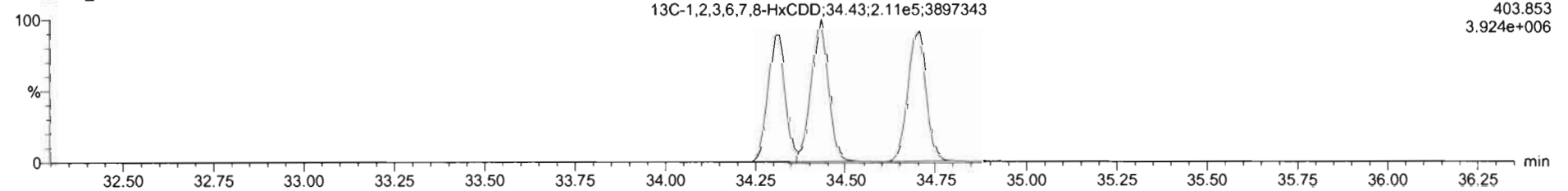


13C-1,2,3,4,7,8-HxCDD

201220R1_15



201220R1_15



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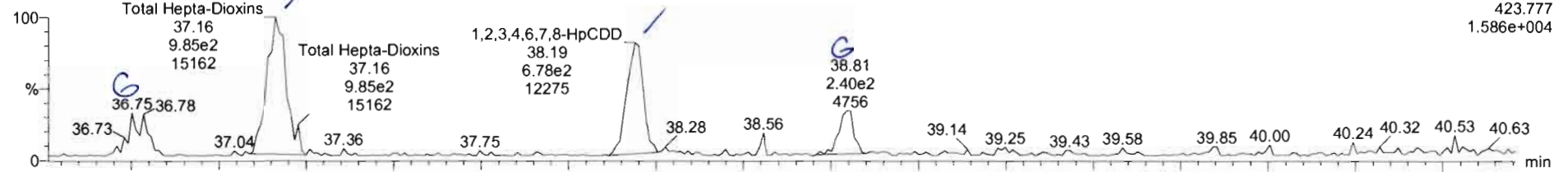
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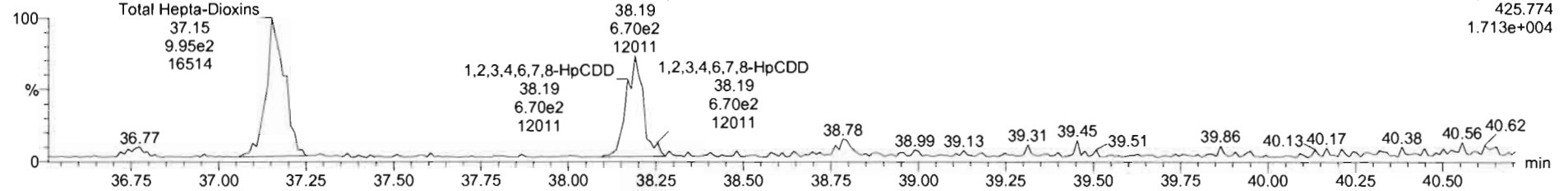
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1,2,3,4,6,7,8-HpCDD

201220R1_15

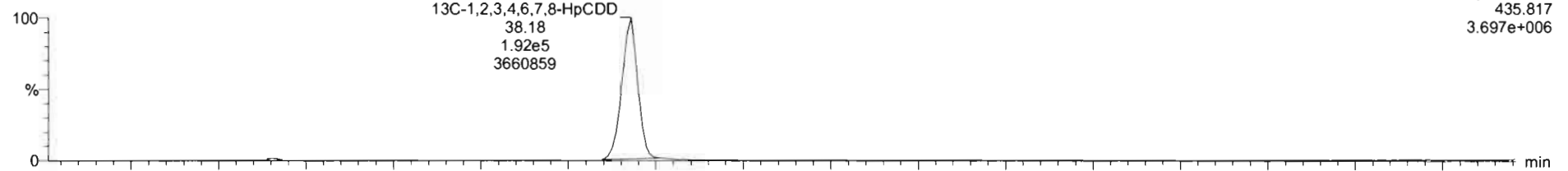


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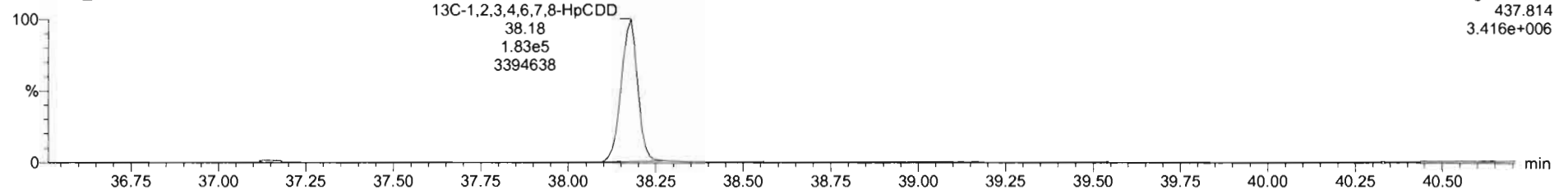


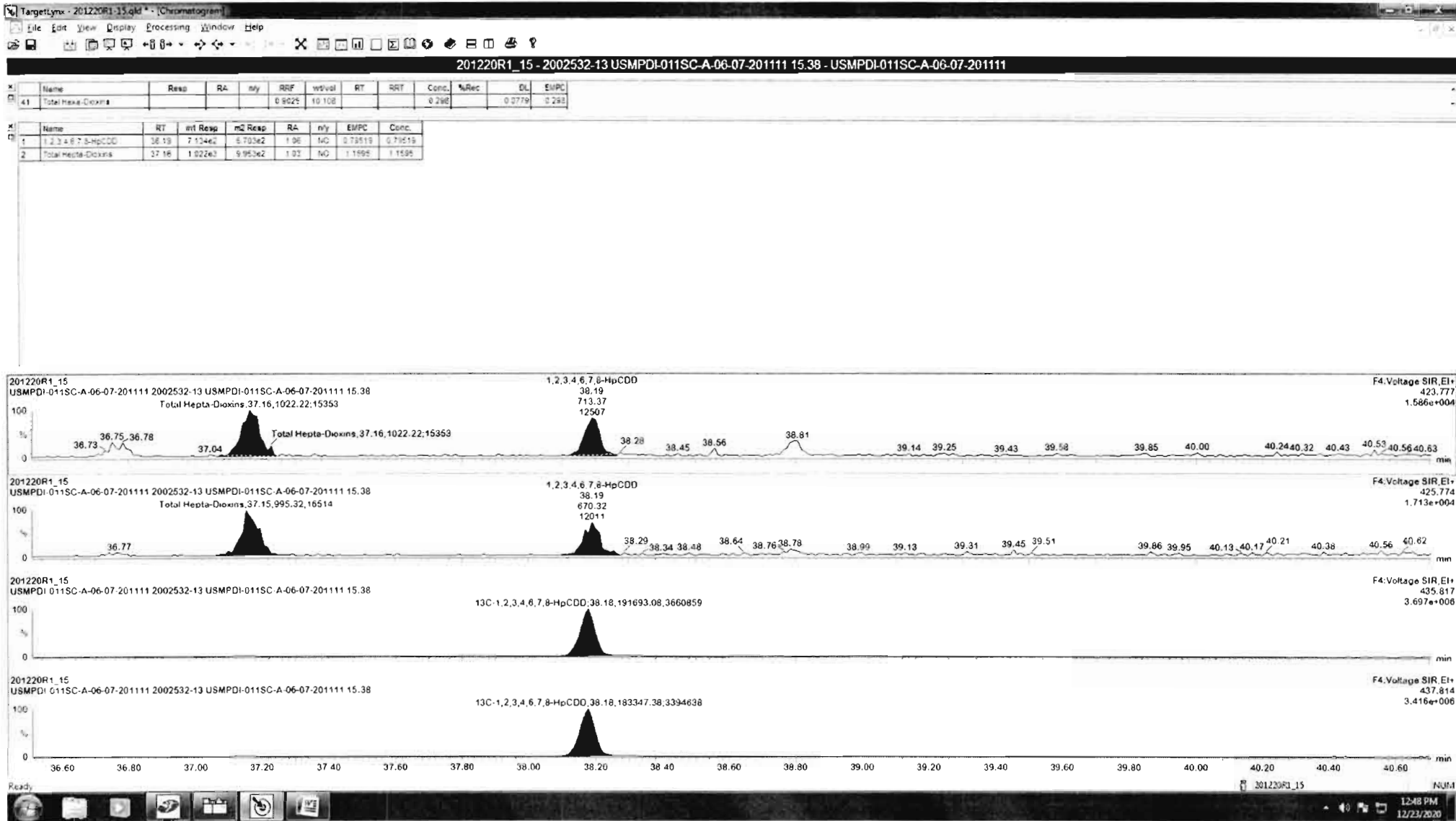
13C-1,2,3,4,6,7,8-HpCDD

201220R1_15



201220R1_15





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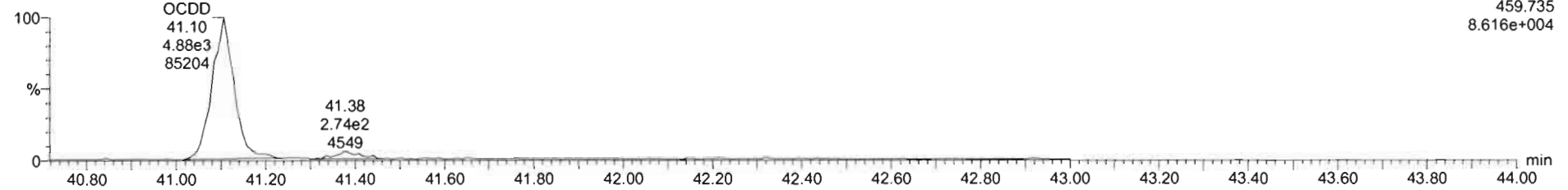
OCDD

201220R1_15



F5:Voltage SIR, EI+
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6.926e+004

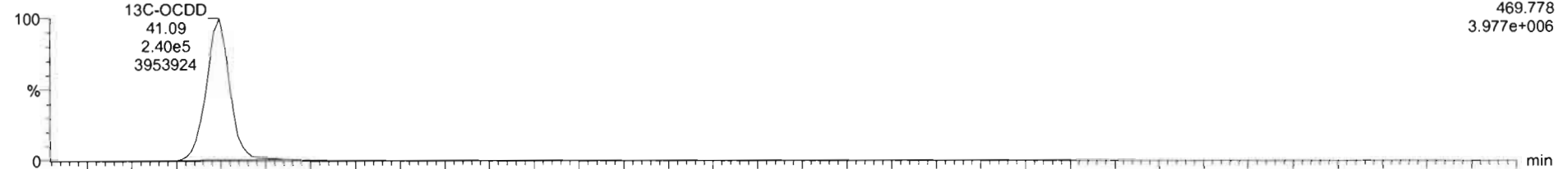
201220R1_15



F5:Voltage SIR, EI+
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8.616e+004

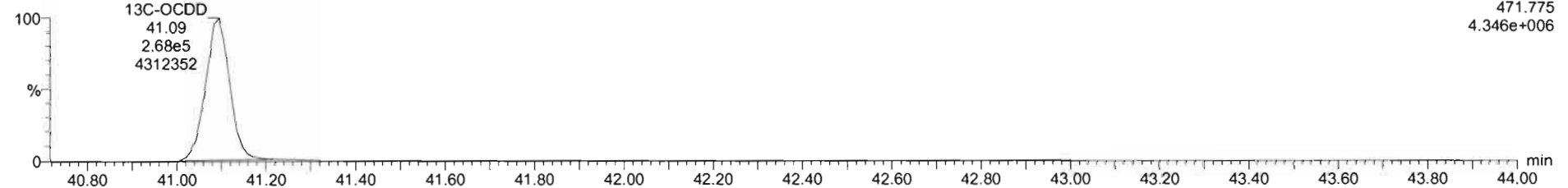
13C-OCDD

201220R1_15



F5:Voltage SIR, EI+
469.778
3.977e+006

201220R1_15



F5:Voltage SIR, EI+
471.775
4.346e+006

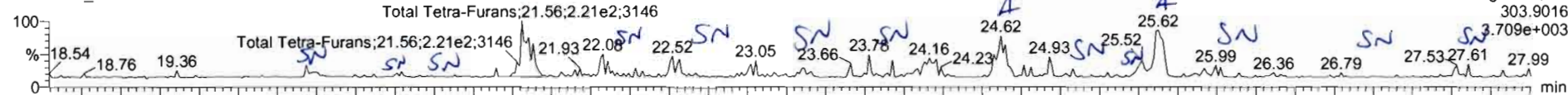
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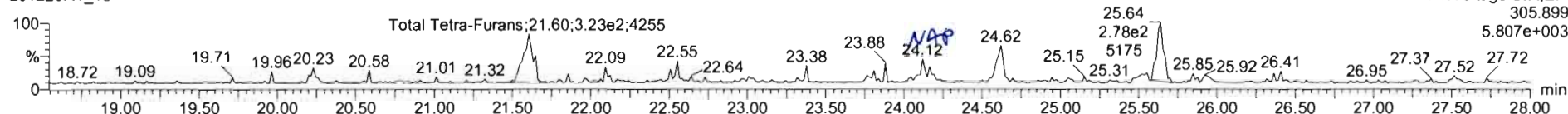
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2,3,7,8-TCDF

201220R1_15

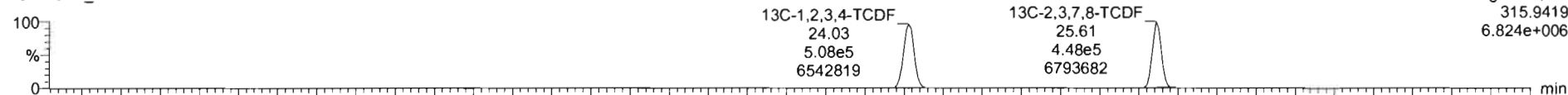


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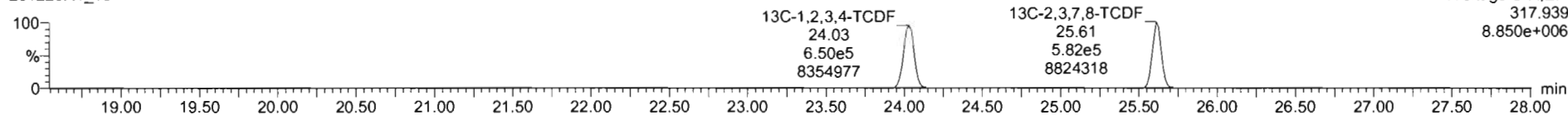


13C-2,3,7,8-TCDF

201220R1_15

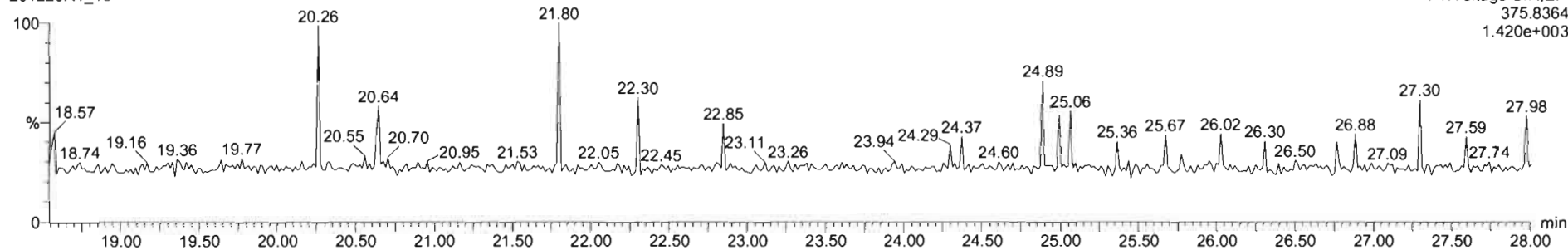


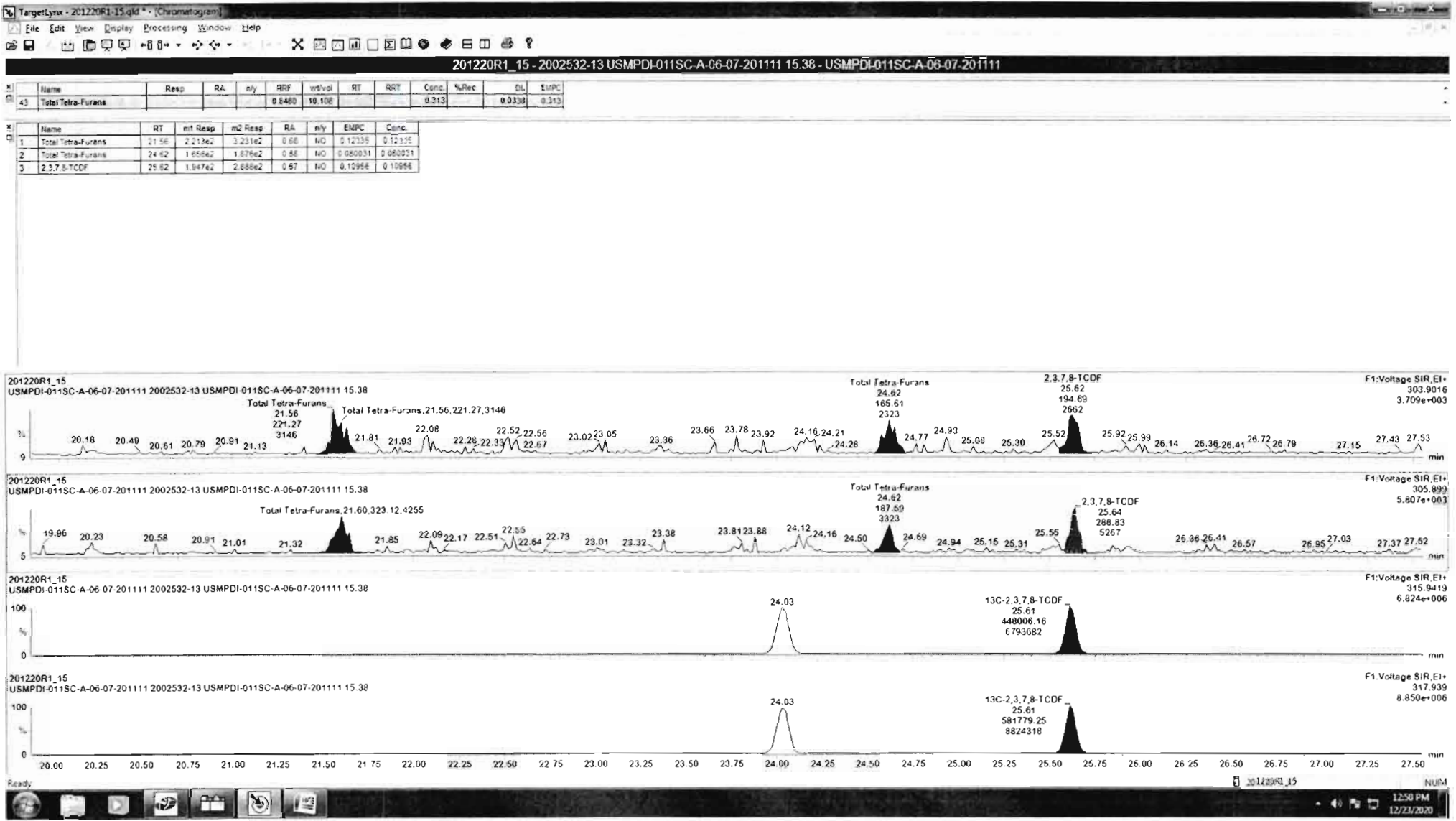
201220R1_15



DPE1

201220R1_15





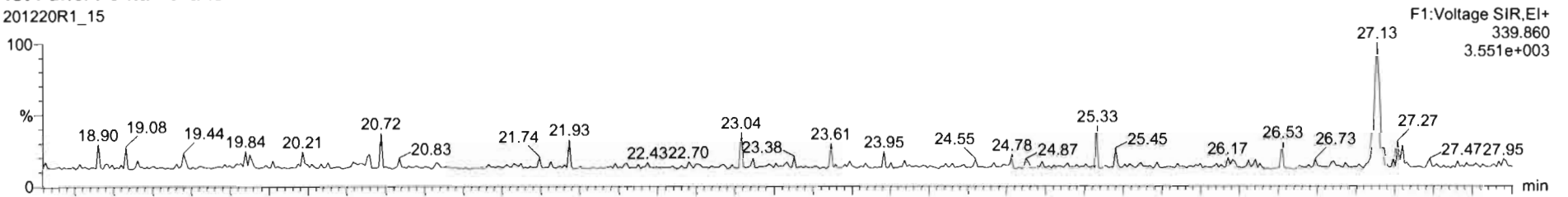
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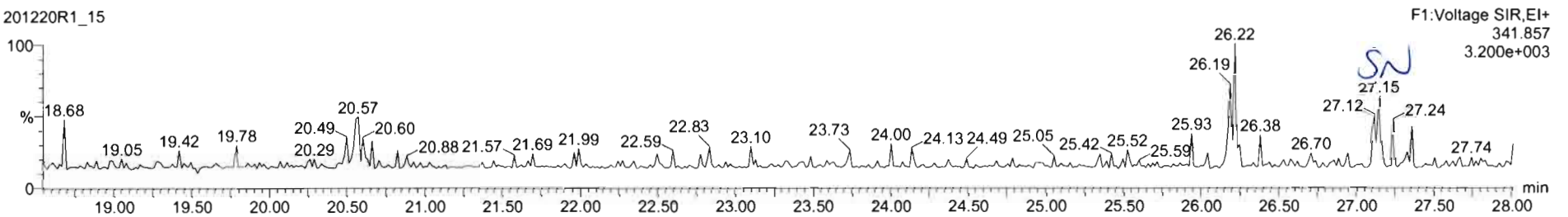
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1st Func. Penta-Furans

201220R1_15

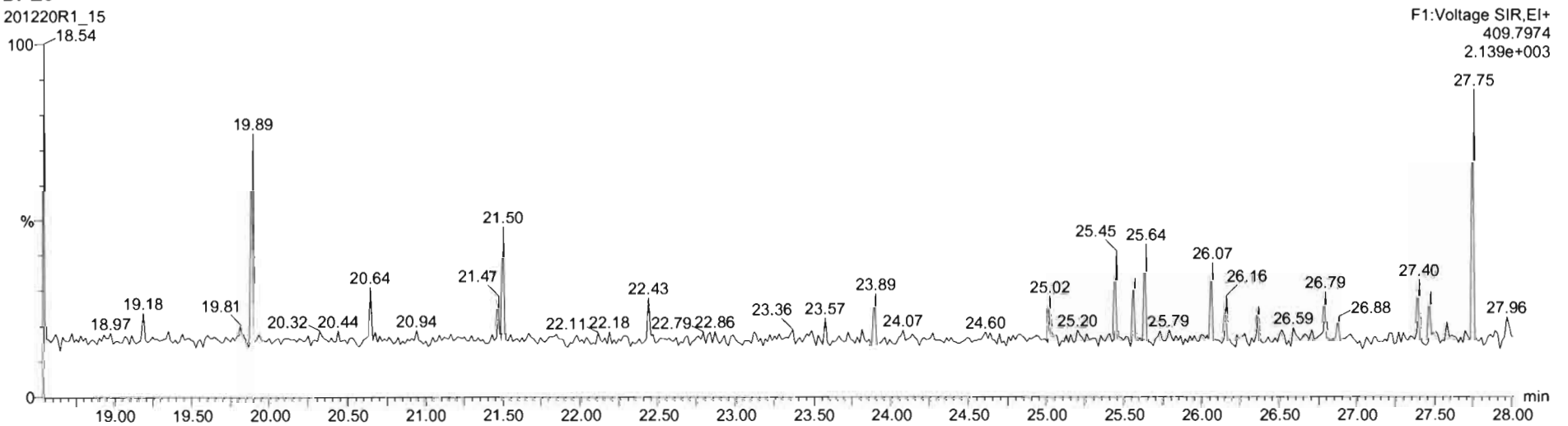


201220R1_15



DPE6

201220R1_15

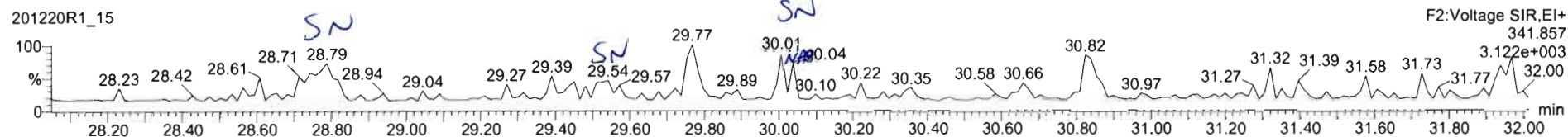
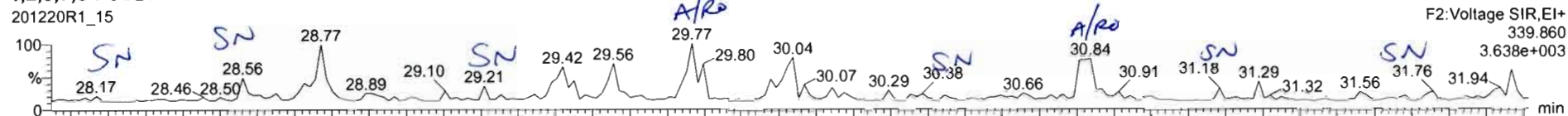


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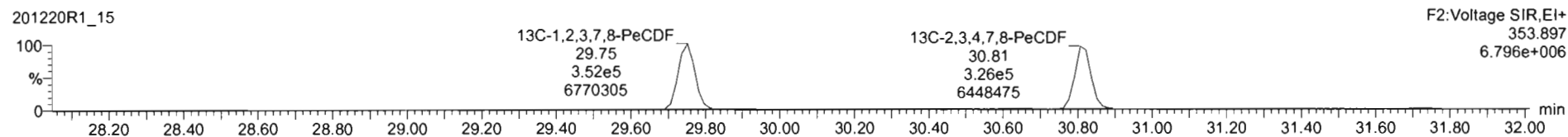
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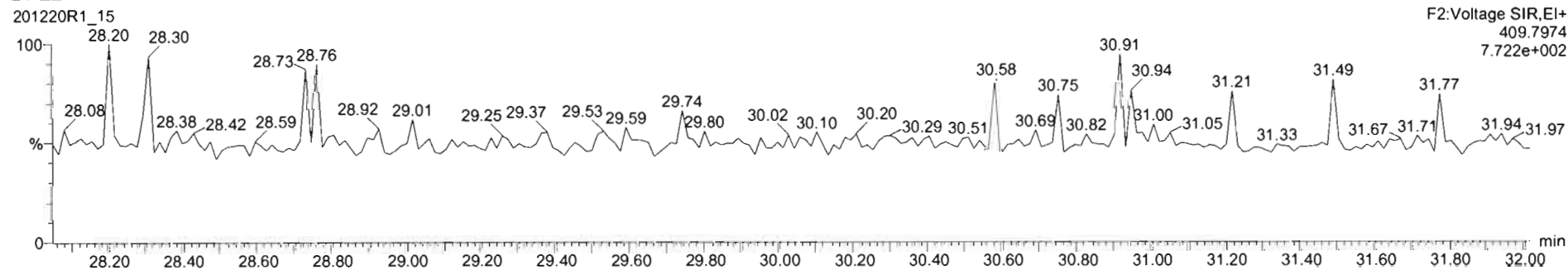
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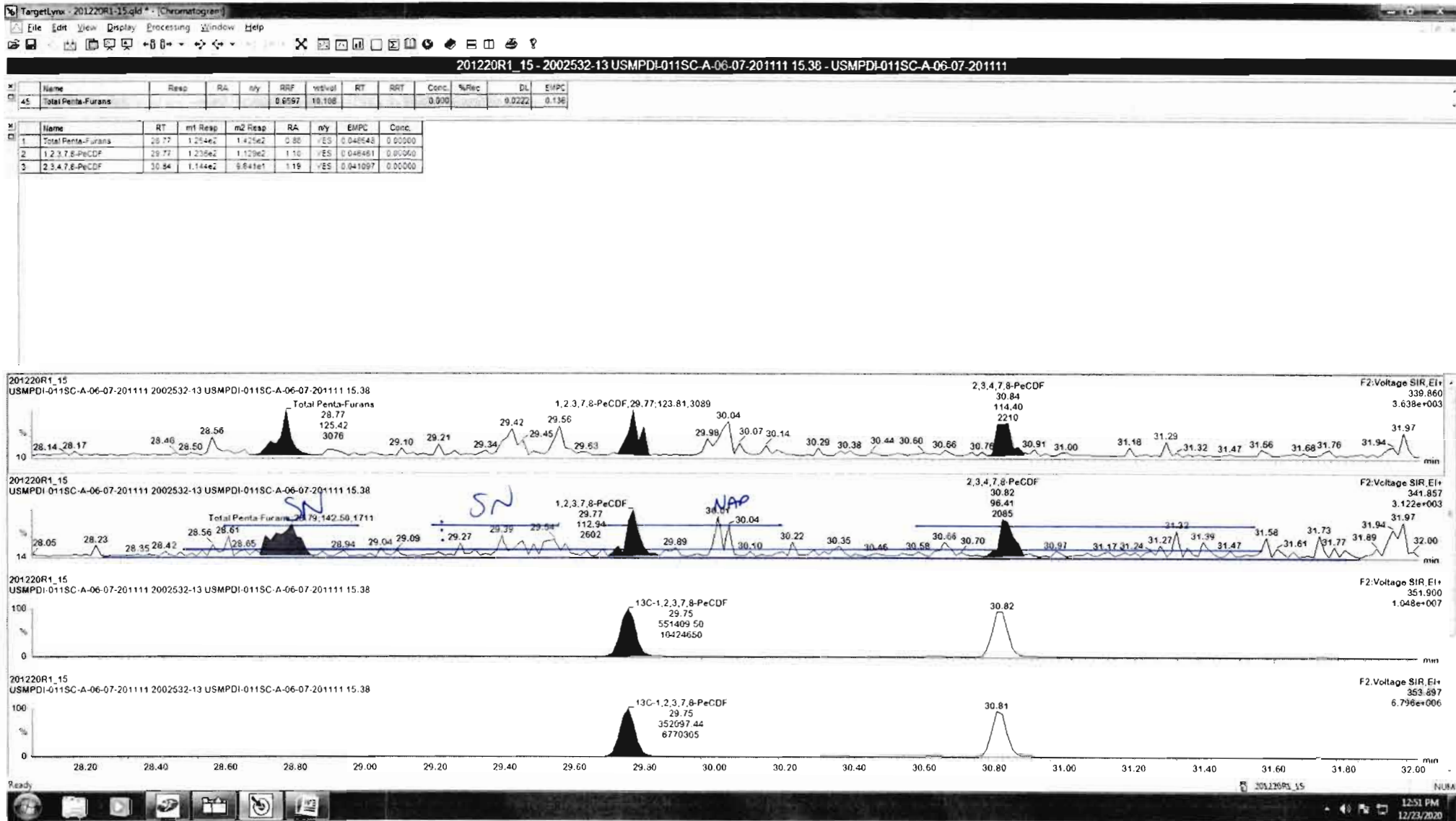


13C-1,2,3,7,8-PeCDF



DPE2





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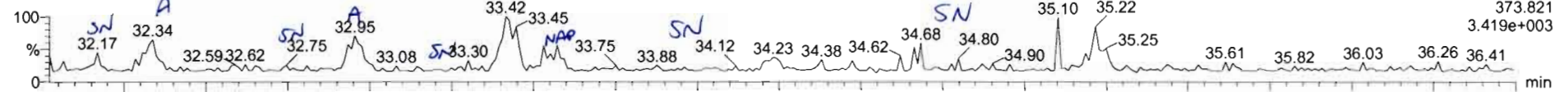
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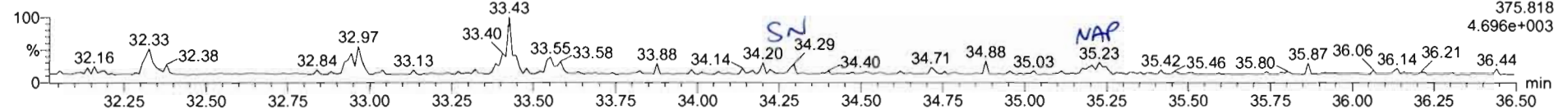
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1,2,3,4,7,8-HxCDF

201220R1_15

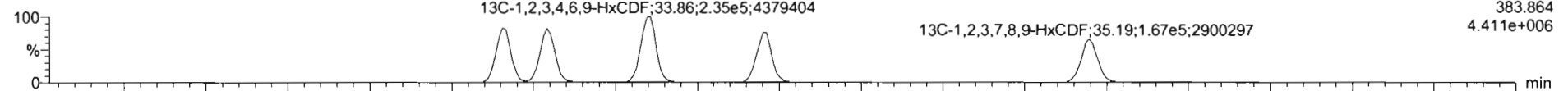


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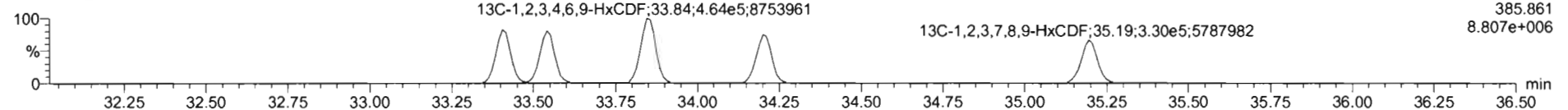


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201220R1_15

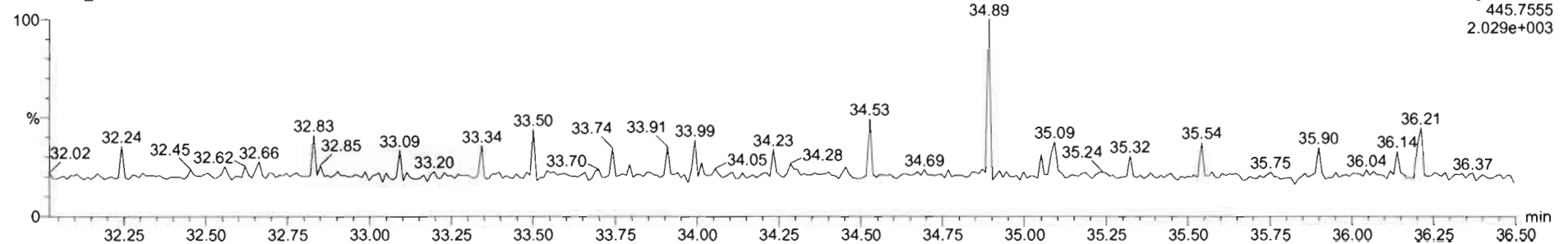


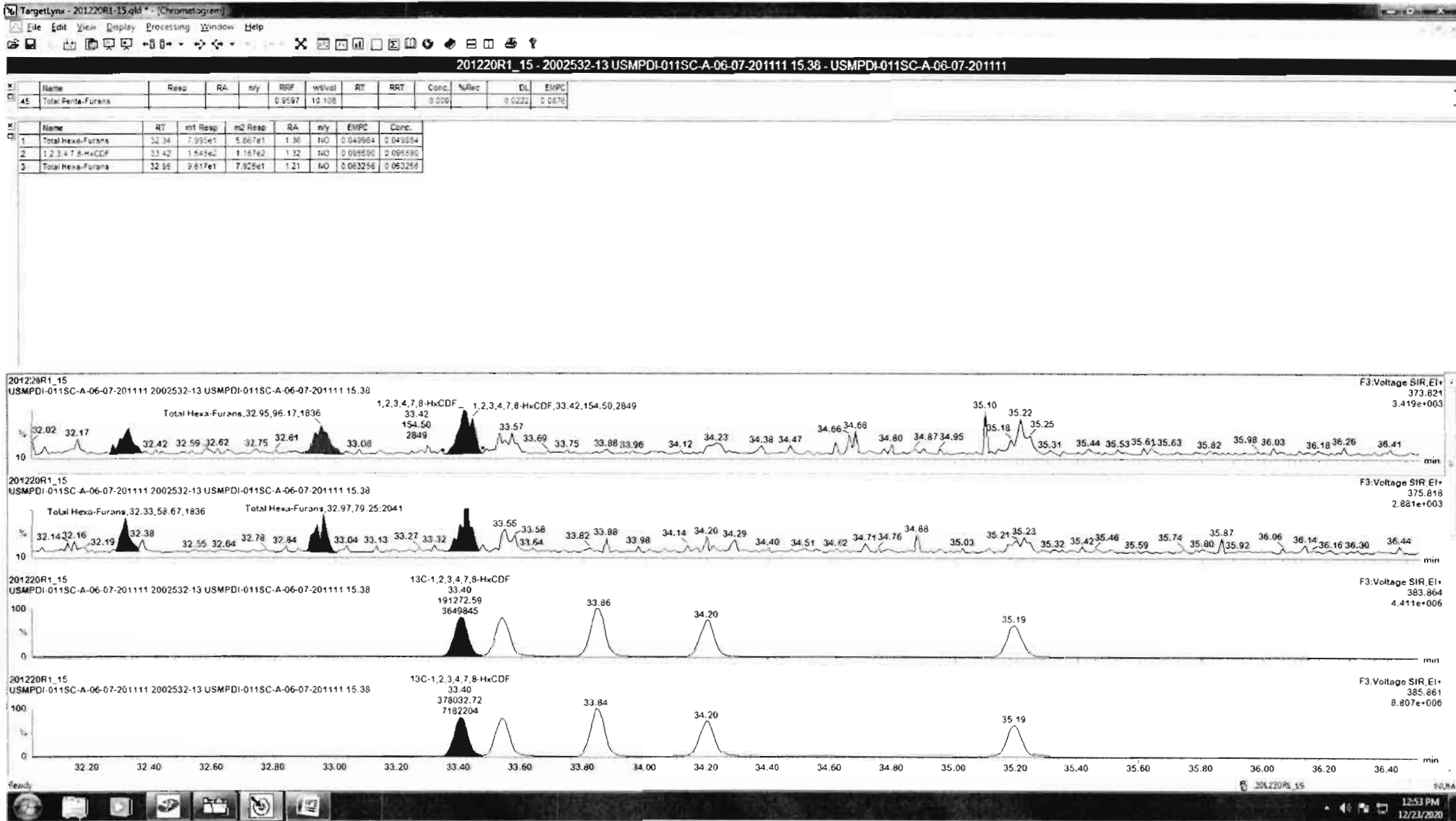
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DPE3

201220R1_15





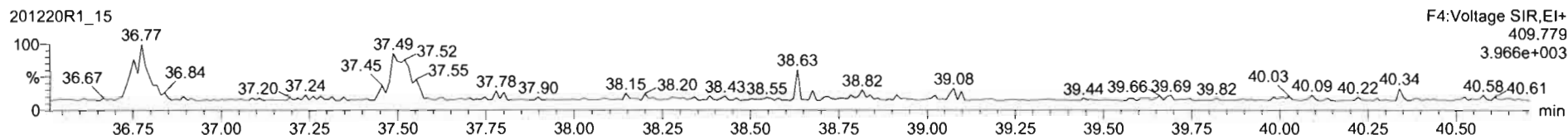
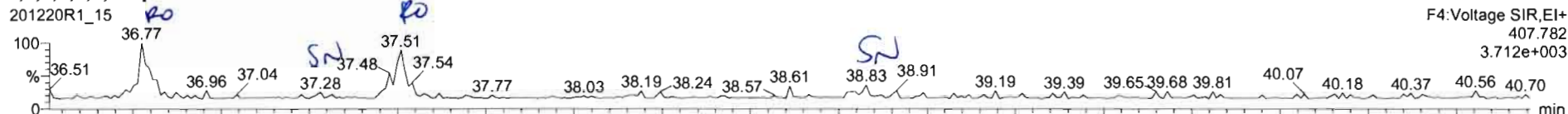
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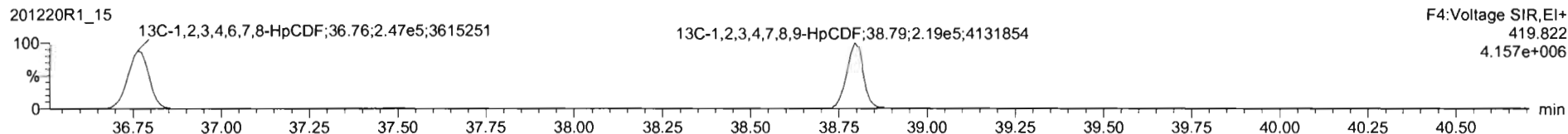
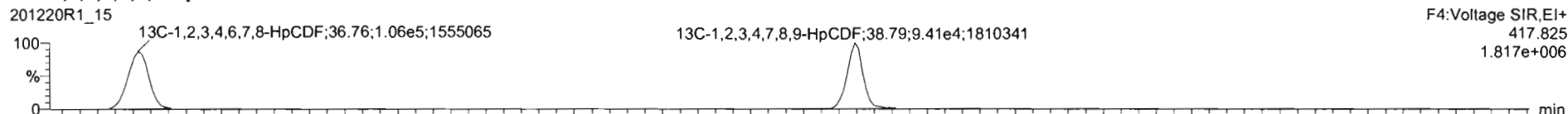
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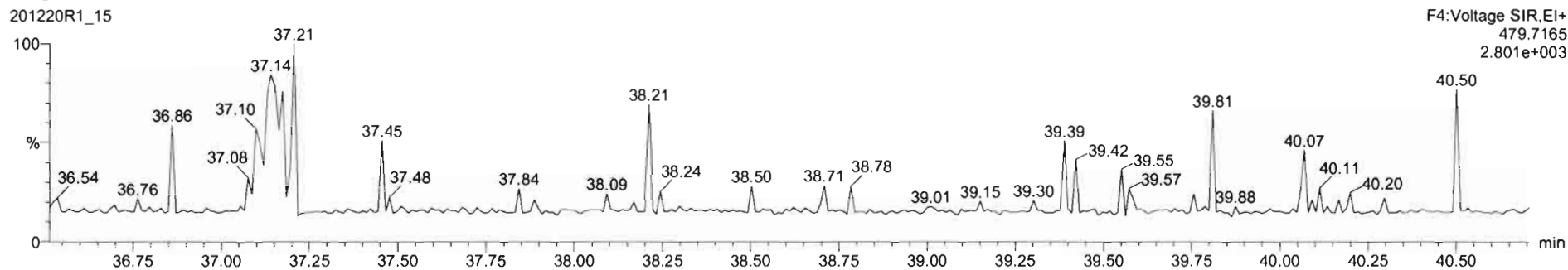
1,2,3,4,6,7,8-HpCDF

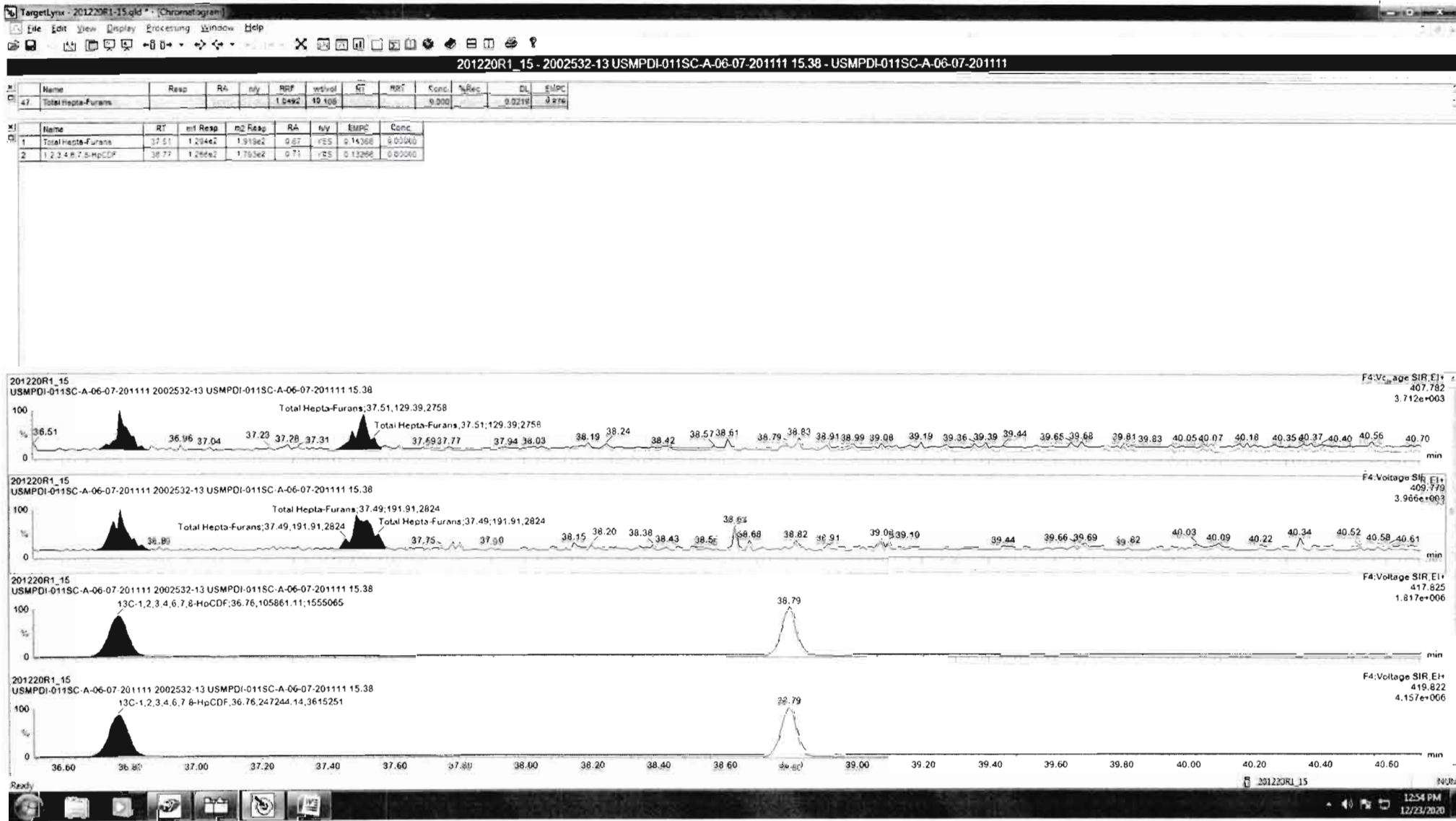


13C-1,2,3,4,6,7,8-HpCDF



DPE4



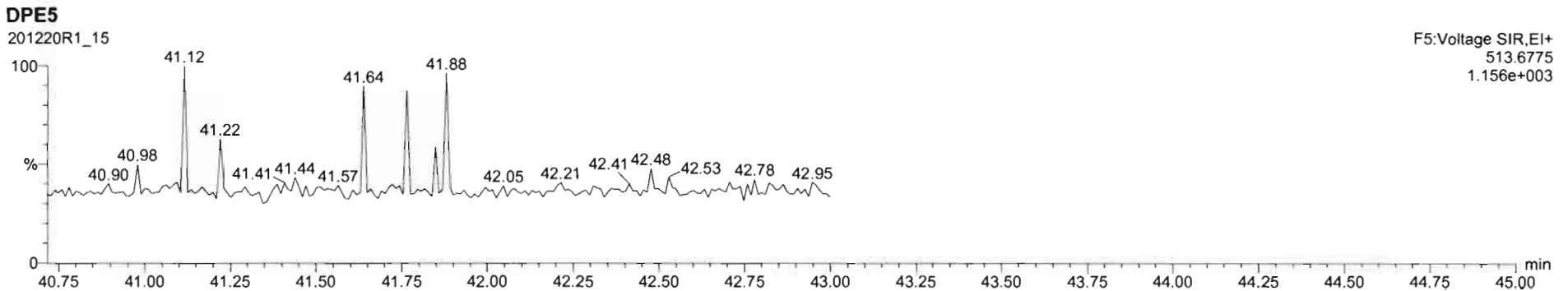
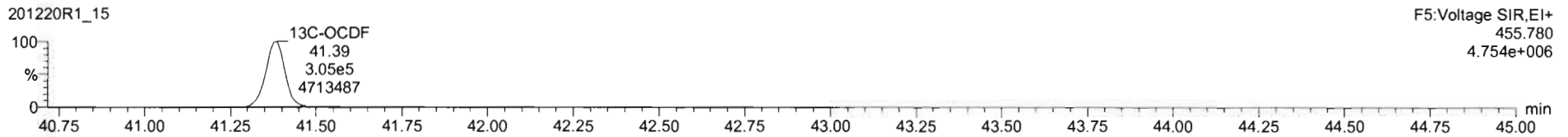
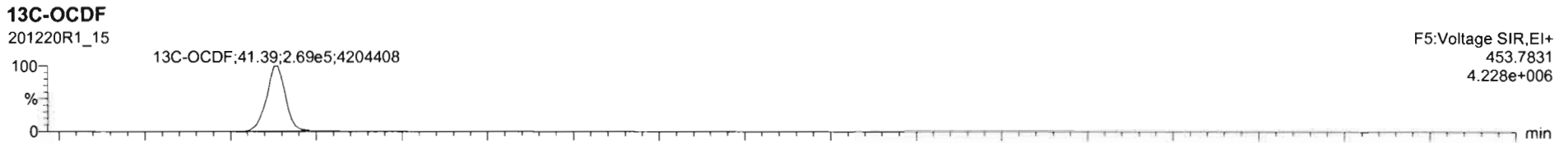
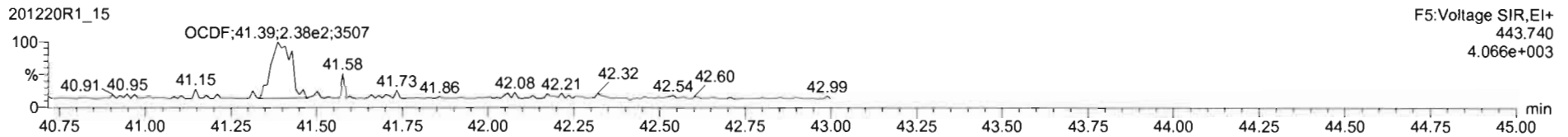
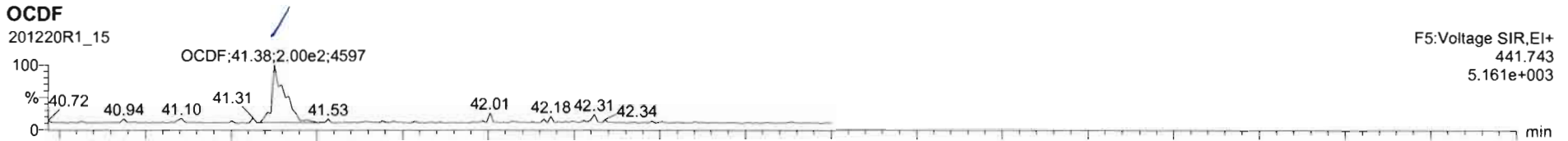


Dataset: Untitled

Last Altered: Monday, December 21, 2020 06:50:00 Pacific Standard Time

Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

Name: 201220R1_15, Date: 20-Dec-2020, Time: 18:51:22, ID: 2002532-13 USMPDI-011SC-A-06-07-201111 15.38, Description: USMPDI-011SC-A-06-07-201111



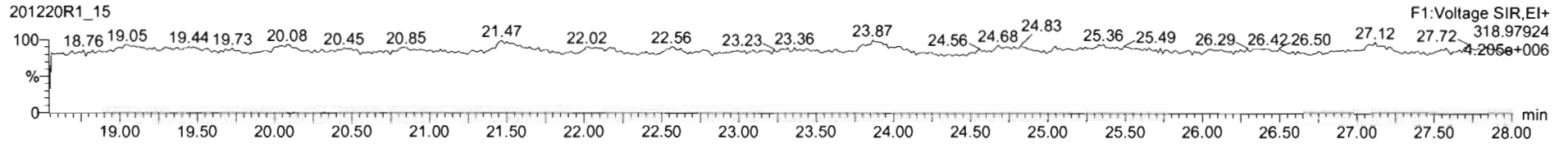
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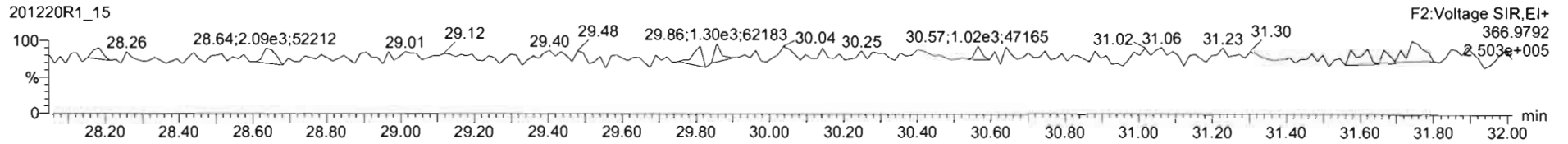
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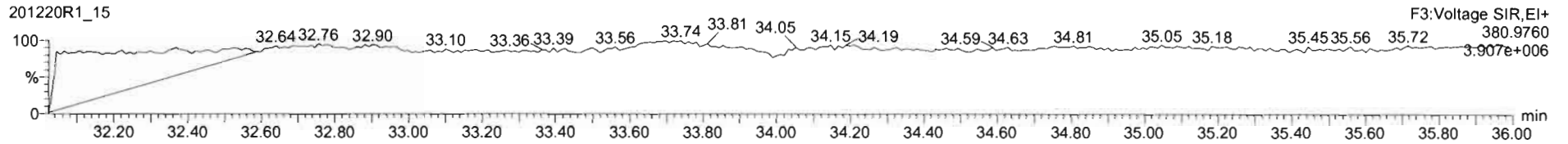
PFK1



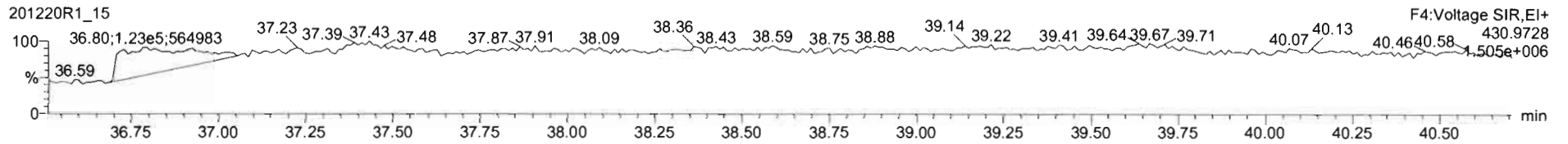
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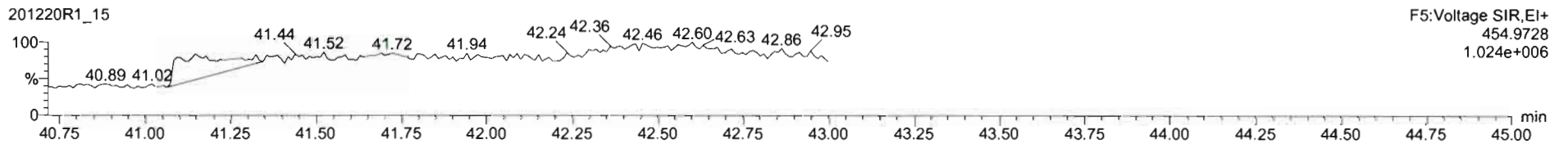
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\201220R1\201220R1-16.qld

Last Altered: Wednesday, December 23, 2020 12:59:51 PM Pacific Standard Time

Printed: Wednesday, December 23, 2020 1:00:41 PM Pacific Standard Time

GRB 12/23/2020

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

*Wm
12/23/20*

Name: 201220R1_16, Date: 20-Dec-2020, Time: 19:35:36, ID: 2002532-14 USMPDI-011SC-A-07-08-201111 15.54, Description: USMPDI-011SC-A-07-08-201111

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.980	10.095	26.337		1.001				0.0346	
2	2 1,2,3,7,8-PeCDD			NO	0.932	10.095	31.049		1.001				0.0558	
3	3 1,2,3,4,7,8-HxCDD			NO	1.02	10.095	34.347		1.001				0.0648	
4	4 1,2,3,6,7,8-HxCDD			NO	0.902	10.095	34.462		1.001				0.0667	
5	5 1,2,3,7,8,9-HxCDD			NO	0.954	10.095	34.713		1.000				0.0686	
6	6 1,2,3,4,6,7,8-HpCDD	5.56e2	1.05	NO	0.918	10.095	38.200	38.20	1.000	1.000	0.39564		0.132	0.396
7	7 OCDD	4.01e3	0.91	NO	0.866	10.095	41.113	41.12	1.000	1.000	4.2958		0.110	4.30
8	8 2,3,7,8-TCDF			NO	0.848	10.095	25.613		1.000				0.0383	
9	9 1,2,3,7,8-PeCDF			NO	0.960	10.095	29.754		1.000				0.0350	
10	10 2,3,4,7,8-PeCDF			NO	1.07	10.095	30.844		1.001				0.0319	
11	11 1,2,3,4,7,8-HxCDF			NO	0.986	10.095	33.425		1.000				0.0475	
12	12 1,2,3,6,7,8-HxCDF			NO	1.04	10.095	33.561		1.001				0.0485	
13	13 2,3,4,6,7,8-HxCDF			NO	1.02	10.095	34.232		1.001				0.0511	
14	14 1,2,3,7,8,9-HxCDF			NO	0.991	10.095	35.217		1.000				0.0626	
15	15 1,2,3,4,6,7,8-HpCDF			NO	1.05	10.095	36.792		1.000				0.0649	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.18	10.095	38.817		1.000				0.0512	
17	17 OCDF	3.29e2	0.90	NO	0.896	10.095	41.406	41.40	1.000	1.000	0.29751		0.153	0.298
18	18 13C-2,3,7,8-TCDD	6.33e5	0.76	NO	1.06	10.095	26.307	26.31	1.030	1.030	186.96	94.4	0.188	
19	19 13C-1,2,3,7,8-PeCDD	5.23e5	0.62	NO	0.785	10.095	31.139	31.02	1.219	1.215	207.72	105	0.193	
20	20 13C-1,2,3,4,7,8-HxCDD	3.51e5	1.30	NO	0.621	10.095	34.315	34.33	1.014	1.014	199.02	100	0.386	
21	21 13C-1,2,3,6,7,8-HxCDD	3.83e5	1.27	NO	0.734	10.095	34.437	34.44	1.017	1.017	183.60	92.7	0.326	
22	22 13C-1,2,3,7,8,9-HxCDD	3.78e5	1.26	NO	0.723	10.095	34.722	34.70	1.026	1.025	183.99	92.9	0.331	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.03e5	1.04	NO	0.568	10.095	38.219	38.19	1.129	1.128	188.00	94.9	0.824	
24	24 13C-OCDD	4.27e5	0.89	NO	0.496	10.095	41.154	41.10	1.216	1.214	303.23	76.5	0.618	
25	25 13C-2,3,7,8-TCDF	8.31e5	0.79	NO	0.919	10.095	25.608	25.61	1.003	1.003	186.02	93.9	0.214	
26	26 13C-1,2,3,7,8-PeCDF	7.13e5	1.58	NO	0.715	10.095	29.852	29.75	1.169	1.165	205.02	103	0.355	
27	27 13C-2,3,4,7,8-PeCDF	6.78e5	1.60	NO	0.689	10.095	30.937	30.82	1.212	1.207	202.51	102	0.369	
28	28 13C-1,2,3,4,7,8-HxCDF	4.53e5	0.51	NO	0.873	10.095	33.422	33.42	0.987	0.987	182.38	92.1	0.541	
29	29 13C-1,2,3,6,7,8-HxCDF	4.44e5	0.51	NO	0.933	10.095	33.550	33.54	0.991	0.991	167.32	84.5	0.506	
30	30 13C-2,3,4,6,7,8-HxCDF	4.21e5	0.50	NO	0.843	10.095	34.217	34.21	1.011	1.011	175.49	88.6	0.560	
31	31 13C-1,2,3,7,8,9-HxCDF	3.98e5	0.50	NO	0.780	10.095	35.216	35.21	1.040	1.040	179.43	90.6	0.606	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201220R1\201220R1-16.qld

Last Altered: Wednesday, December 23, 2020 12:59:51 PM Pacific Standard Time

Printed: Wednesday, December 23, 2020 1:00:41 PM Pacific Standard Time

Name: 201220R1_16, Date: 20-Dec-2020, Time: 19:35:36, ID: 2002532-14 USMPDI-011SC-A-07-08-201111 15.54, Description: USMPDI-011SC-A-07-08-201111

#	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	2.92e5	0.43	NO	0.726	10.095	36.790	36.77	1.087	1.086	141.49	71.4	0.623	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.57e5	0.43	NO	0.491	10.095	38.798	38.81	1.146	1.146	183.76	92.8	0.921	
34	34 13C-OCDF	4.89e5	0.87	NO	0.565	10.095	41.371	41.40	1.222	1.223	304.09	76.7	0.698	
35	35 37Cl-2,3,7,8-TCDD	2.96e5			1.22	10.095	26.302	26.33	1.030	1.031	75.846	95.7	0.0302	
36	36 13C-1,2,3,4-TCDD	6.35e5	0.76	NO	1.00	10.095	25.640	25.54	1.000	1.000	198.12	100	0.198	
37	37 13C-1,2,3,4-TCDF	9.63e5	0.78	NO	1.00	10.095	24.130	24.03	1.000	1.000	198.12	100	0.197	
38	38 13C-1,2,3,4,6,9-HxCDF	5.63e5	0.51	NO	1.00	10.095	33.920	33.85	1.000	1.000	198.12	100	0.472	
39	39 Total Tetra-Dioxins				0.980	10.095	24.620		0.000				0.0197	
40	40 Total Penta-Dioxins				0.932	10.095	29.960		0.000				0.0164	
41	41 Total Hexa-Dioxins				0.902	10.095	33.635		0.000				0.0276	
42	42 Total Hepta-Dioxins				0.918	10.095	37.640		0.000		0.39564		0.132	0.710
43	43 Total Tetra-Furans				0.848	10.095	23.610		0.000				0.0156	
44	44 1st Func. Penta-Furans				0.960	10.095	26.930		0.000				0.00782	
45	45 Total Penta-Furans				0.960	10.095	29.275		0.000				0.0174	
46	46 Total Hexa-Furans				1.02	10.095	33.555		0.000		0.00000		0.0240	0.120
47	47 Total Hepta-Furans				1.05	10.095	37.835		0.000				0.0307	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201220R1\201220R1-16.qld

Last Altered: Wednesday, December 23, 2020 12:59:51 PM Pacific Standard Time

Printed: Wednesday, December 23, 2020 1:00:41 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\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201220R1_16, Date: 20-Dec-2020, Time: 19:35:36, ID: 2002532-14 USMPDI-011SC-A-07-08-201111 15.54, Description: USMPDI-011SC-A-07-08-201111

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	Total Hepta-Dioxins	37.16	4.633e3	4.420e3	2.252e2	2.901e2	0.78	YES	0.000e0	0.00000	0.31425	0.132
2	1,2,3,4,6,7,8-HpCDD	38.20	5.279e3	5.281e3	2.853e2	2.709e2	1.05	NO	5.562e2	0.39564	0.39564	0.132

Tetra-Furans

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

Penta-Furans function 1

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

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201220R1\201220R1-16.qld

Last Altered: Wednesday, December 23, 2020 12:59:51 PM Pacific Standard Time

Printed: Wednesday, December 23, 2020 1:00:41 PM Pacific Standard Time

Name: 201220R1_16, Date: 20-Dec-2020, Time: 19:35:36, ID: 2002532-14 USMPDI-011SC-A-07-08-201111 15.54, Description: USMPDI-011SC-A-07-08-201111

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	34.01	3.680e3	4.044e3	1.469e2	1.654e2	0.89	YES	0.000e0	0.00000	0.12022	0.0240

Hepta-Furans

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

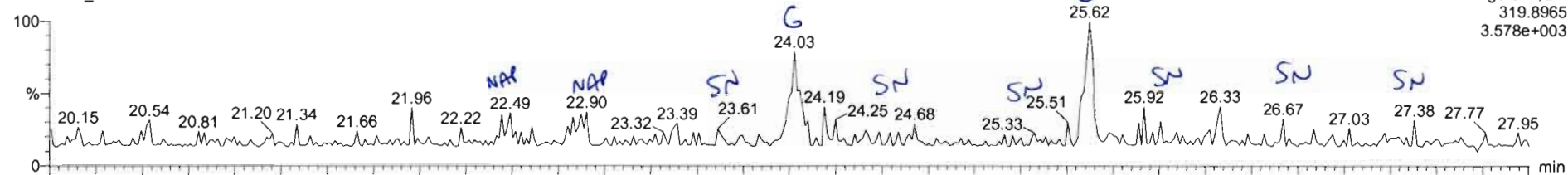
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Last Altered: Monday, December 21, 2020 06:50:00 Pacific Standard Time
Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

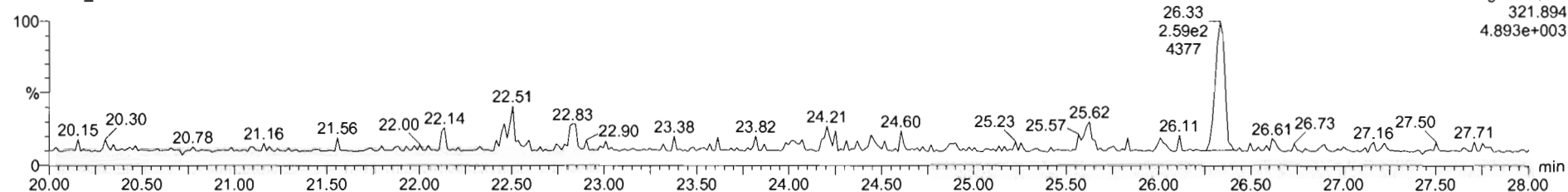
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2,3,7,8-TCDD

201220R1_16

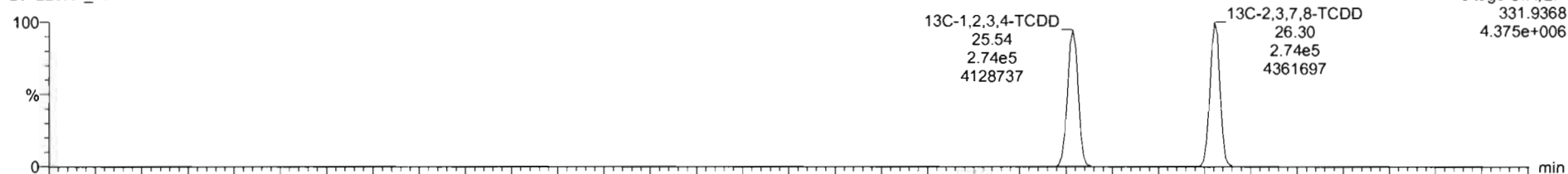


201220R1_16

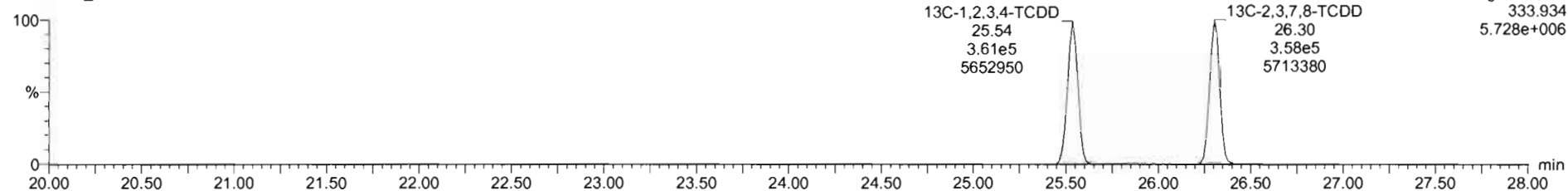


13C-2,3,7,8-TCDD

201220R1_16



201220R1_16



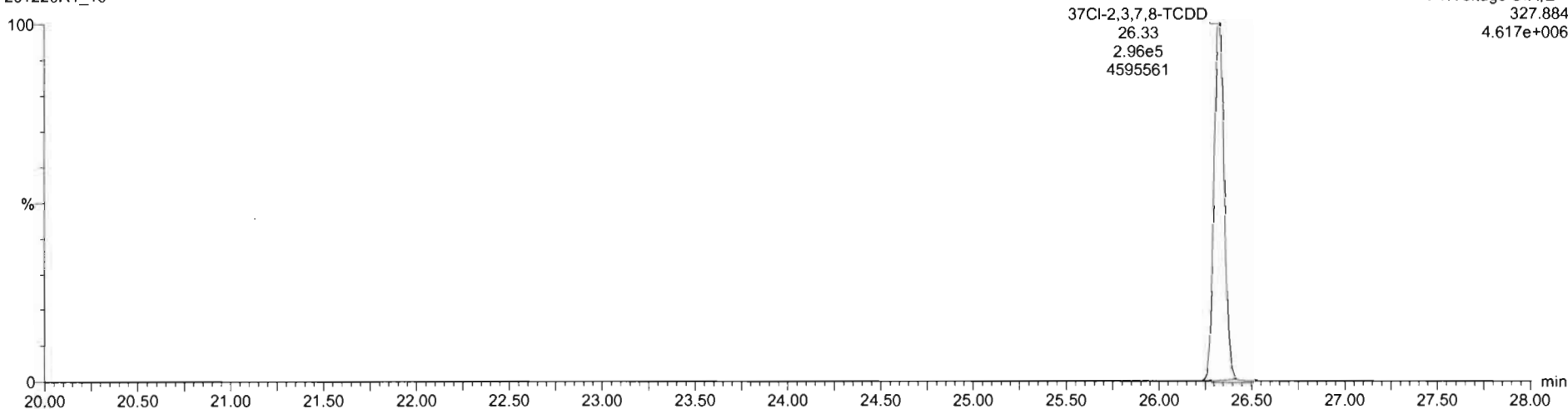
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Name: 201220R1_16, Date: 20-Dec-2020, Time: 19:35:36, ID: 2002532-14 USMPDI-011SC-A-07-08-201111 15.54, Description: USMPDI-011SC-A-07-08-201111

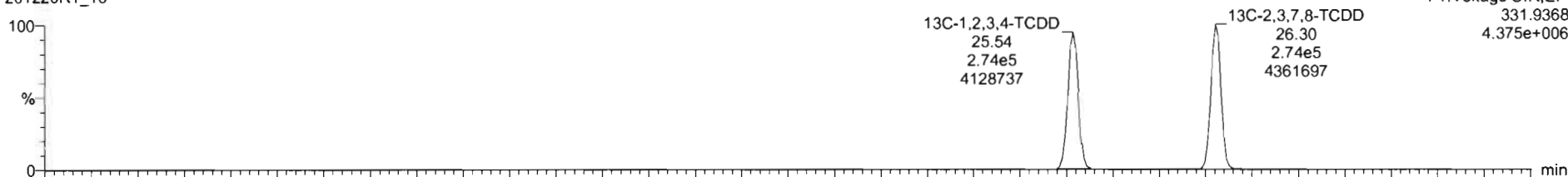
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201220R1_16

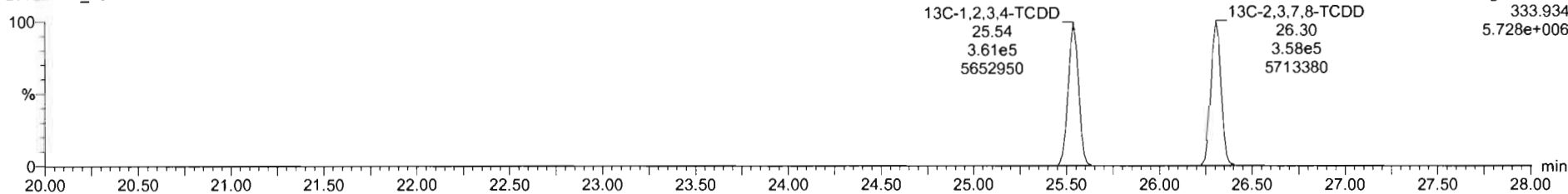


13C-1,2,3,4-TCDD

201220R1_16



201220R1_16



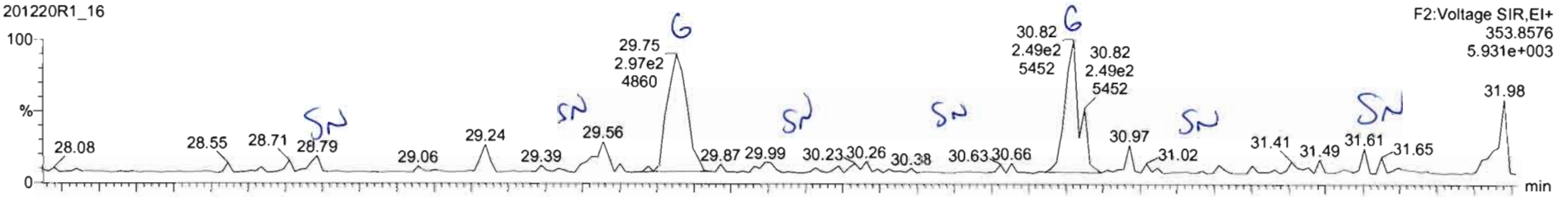
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Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

Name: 201220R1_16, Date: 20-Dec-2020, Time: 19:35:36, ID: 2002532-14 USMPDI-011SC-A-07-08-201111 15.54, Description: USMPDI-011SC-A-07-08-201111

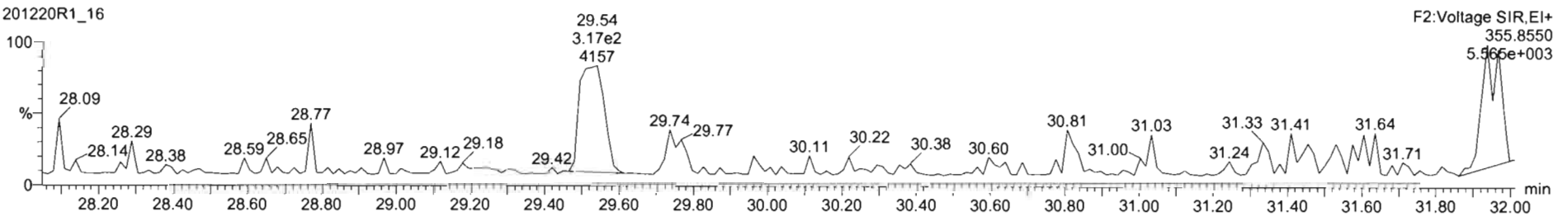
1,2,3,7,8-PeCDD

201220R1_16



F2:Voltage SIR,EI+
353.8576
5.931e+003

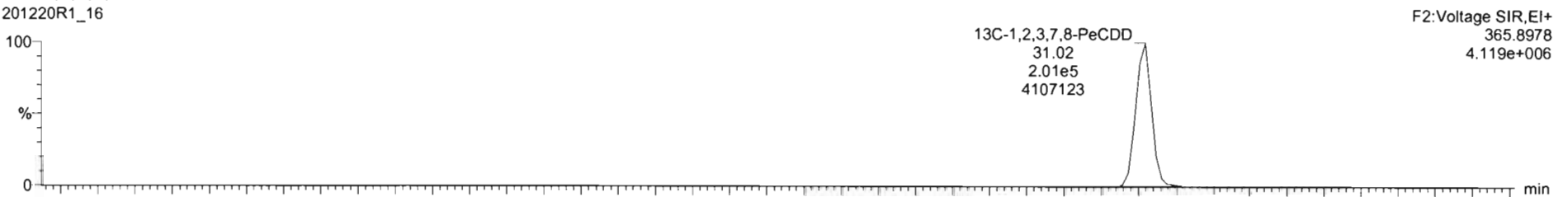
201220R1_16



F2:Voltage SIR,EI+
355.8550
5.566e+003

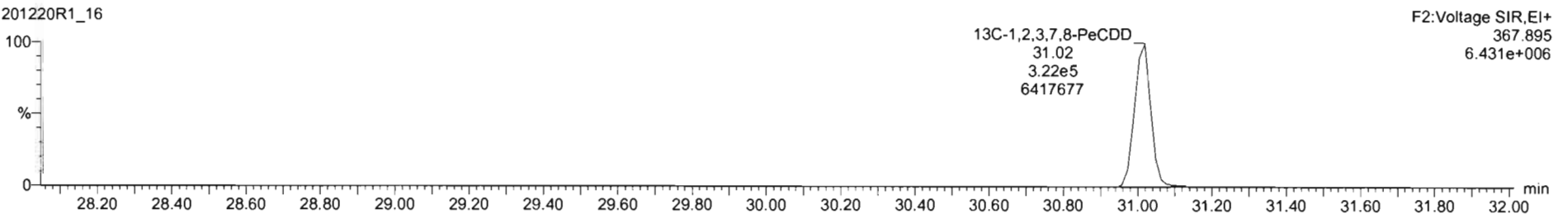
13C-1,2,3,7,8-PeCDD

201220R1_16



F2:Voltage SIR,EI+
365.8978
4.119e+006

201220R1_16



F2:Voltage SIR,EI+
367.895
6.431e+006

Dataset: Untitled

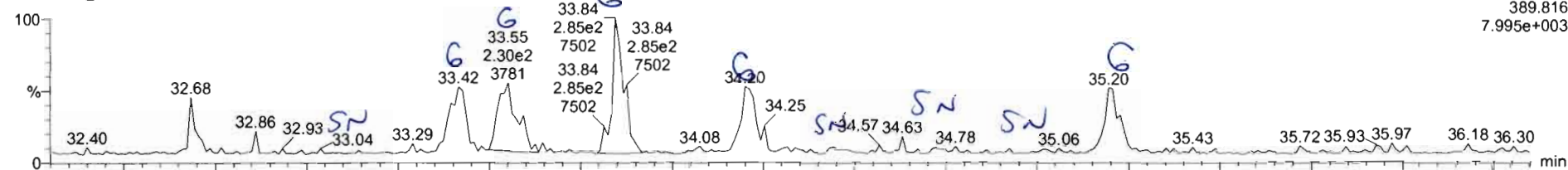
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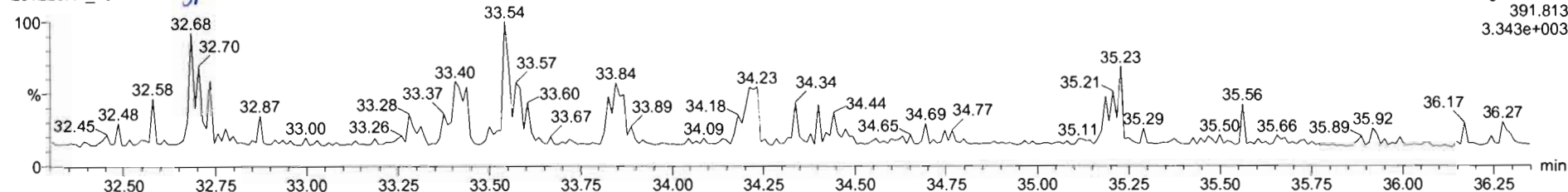
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1,2,3,4,7,8-HxCDD

201220R1_16

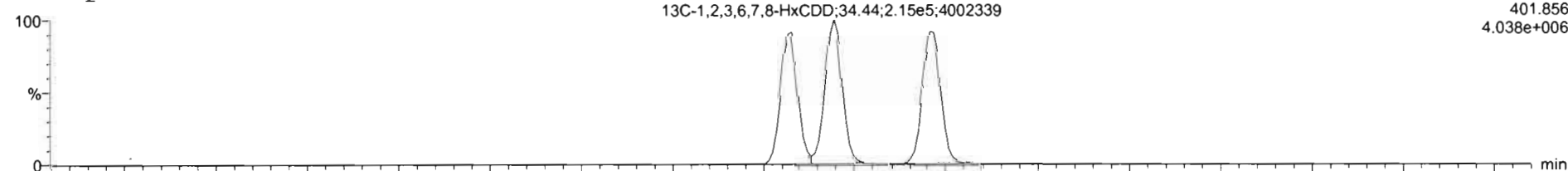


201220R1_16

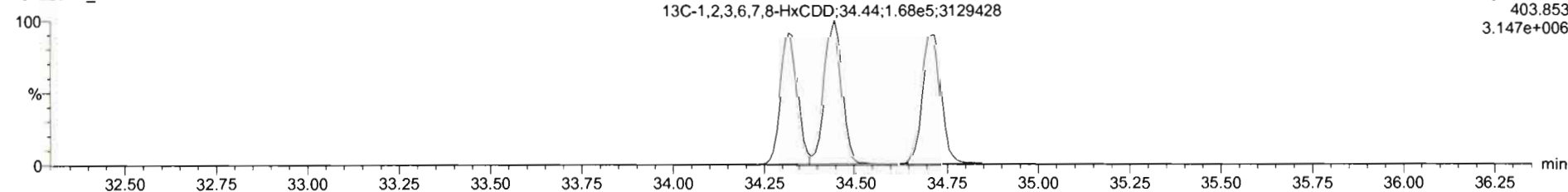


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201220R1_16



201220R1_16



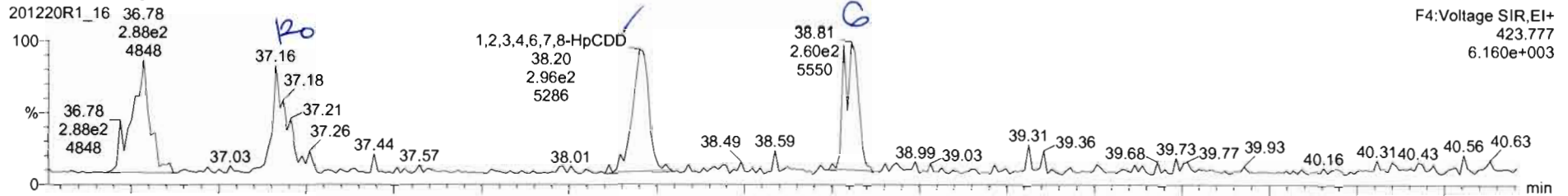
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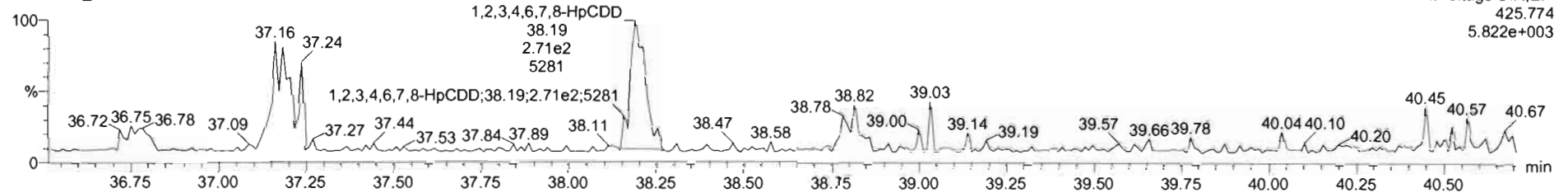
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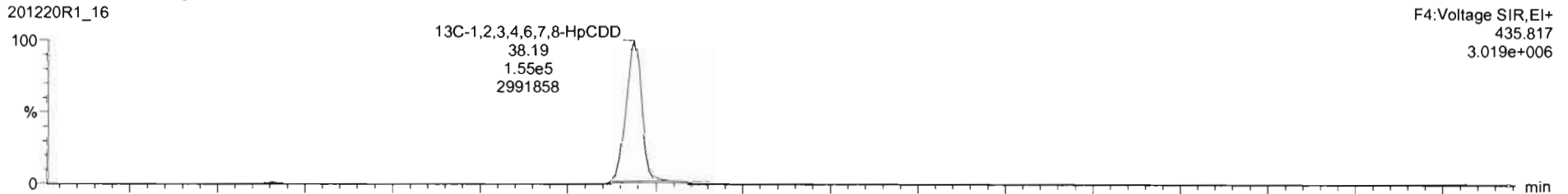
1,2,3,4,6,7,8-HpCDD



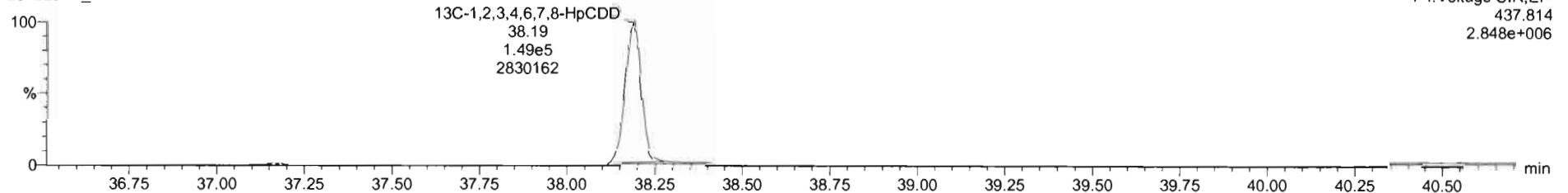
201220R1_16

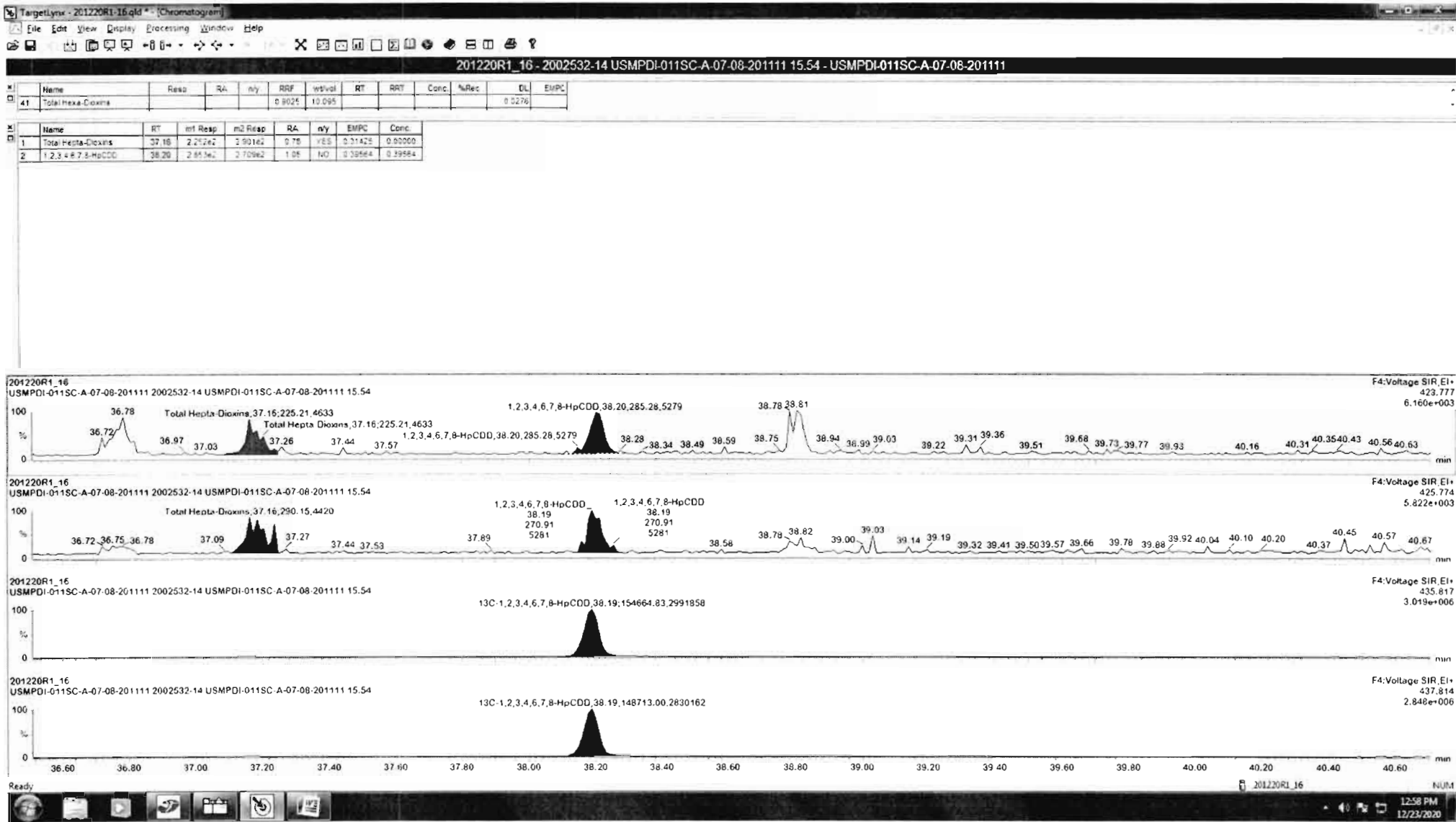


13C-1,2,3,4,6,7,8-HpCDD



201220R1_16



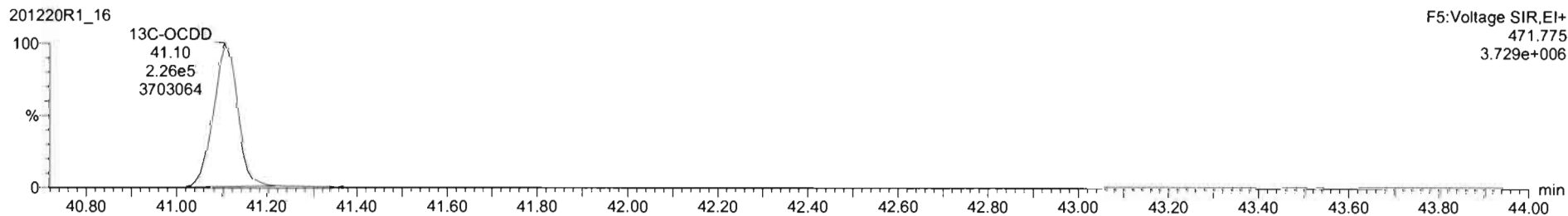
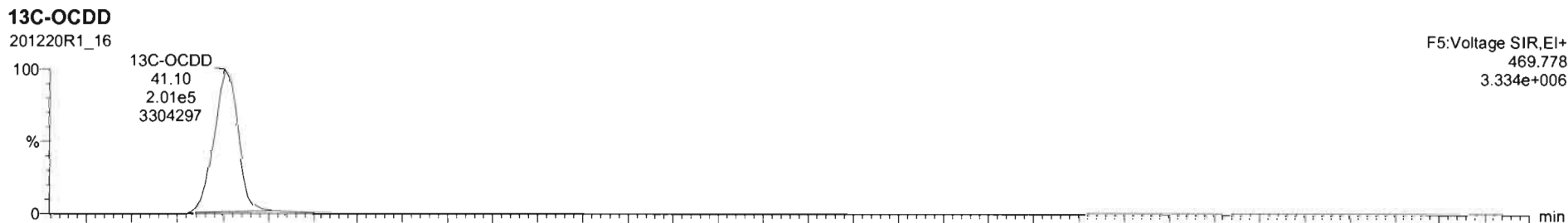
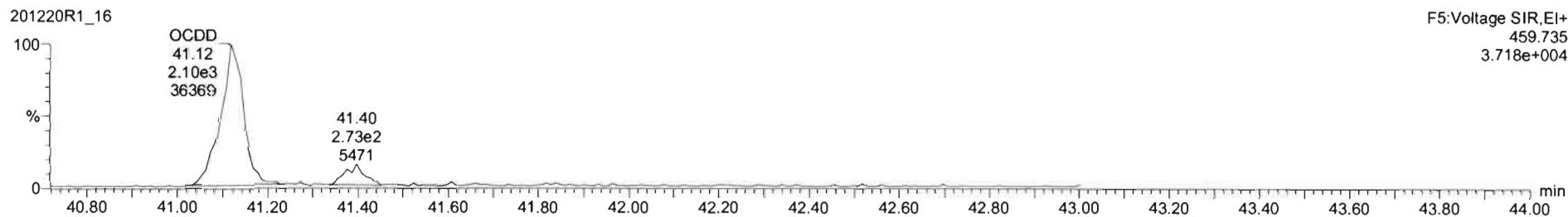
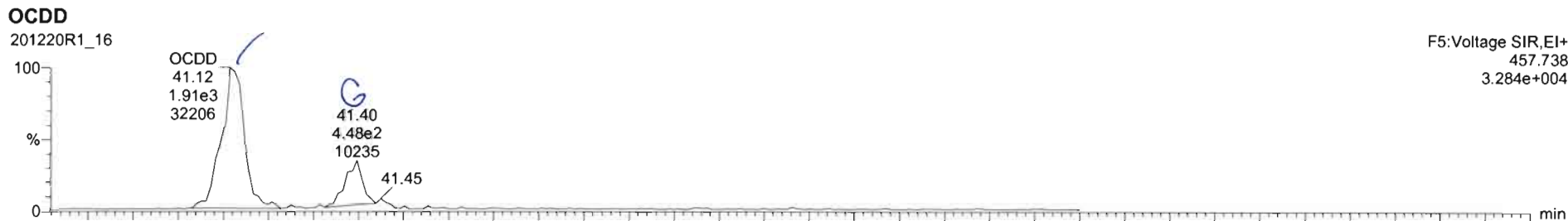


Dataset: Untitled

Last Altered: Monday, December 21, 2020 06:50:00 Pacific Standard Time

Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

Name: 201220R1_16, Date: 20-Dec-2020, Time: 19:35:36, ID: 2002532-14 USMPDI-011SC-A-07-08-201111 15.54, Description: USMPDI-011SC-A-07-08-201111



Dataset: Untitled

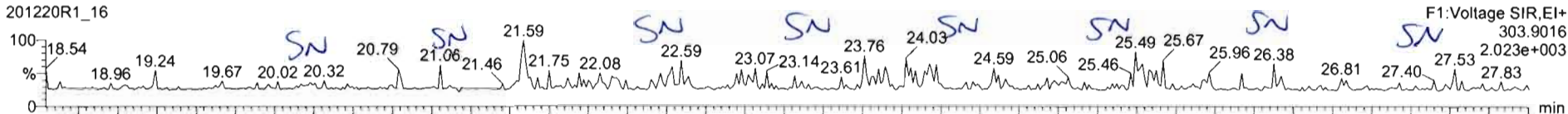
Last Altered: Monday, December 21, 2020 06:50:00 Pacific Standard Time

Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

Name: 201220R1_16, Date: 20-Dec-2020, Time: 19:35:36, ID: 2002532-14 USMPDI-011SC-A-07-08-201111 15.54, Description: USMPDI-011SC-A-07-08-201111

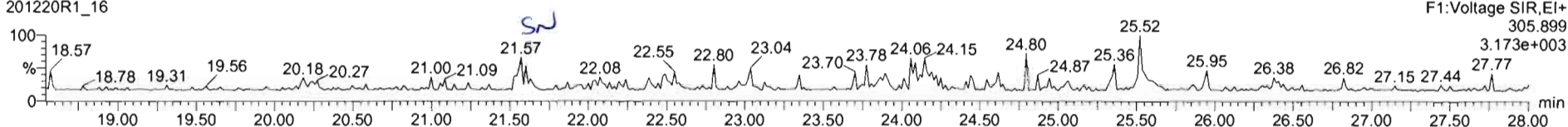
2,3,7,8-TCDF

201220R1_16



F1:Voltage SIR,EI+
303.9016
2.023e+003

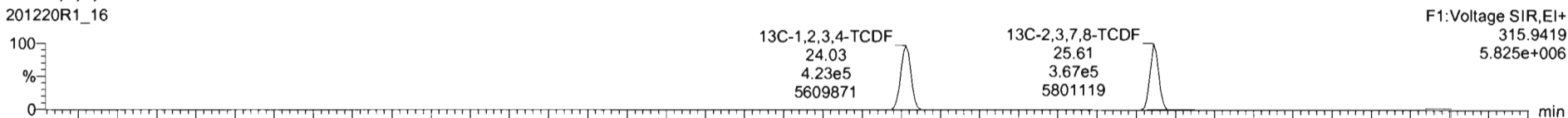
201220R1_16



F1:Voltage SIR,EI+
305.899
3.173e+003

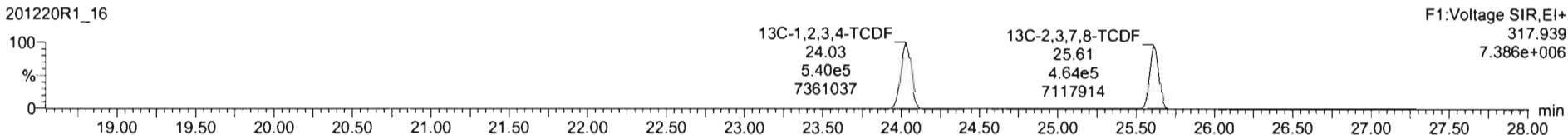
13C-2,3,7,8-TCDF

201220R1_16



F1:Voltage SIR,EI+
315.9419
5.825e+006

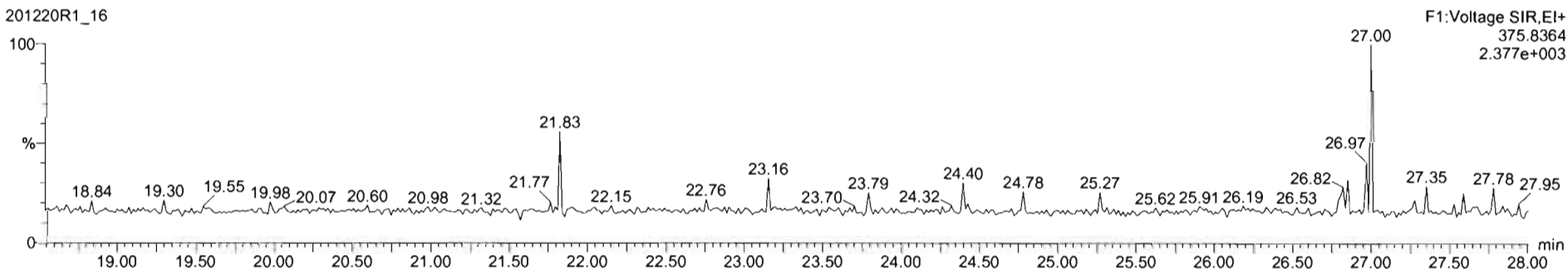
201220R1_16



F1:Voltage SIR,EI+
317.939
7.386e+006

DPE1

201220R1_16



F1:Voltage SIR,EI+
375.8364
2.377e+003

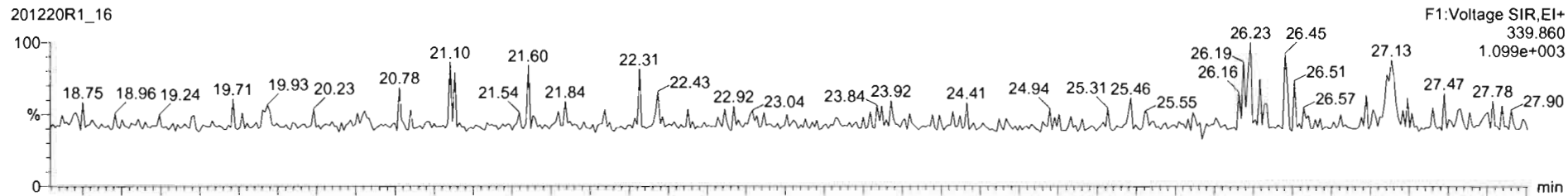
Dataset: Untitled

Last Altered: Monday, December 21, 2020 06:50:00 Pacific Standard Time
Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

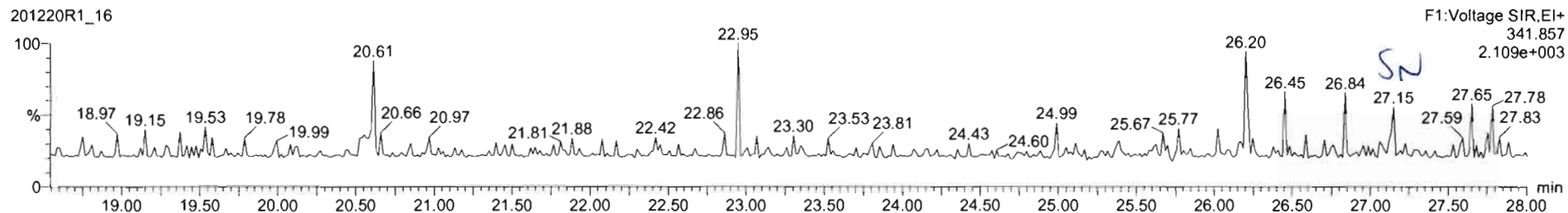
Name: 201220R1_16, Date: 20-Dec-2020, Time: 19:35:36, ID: 2002532-14 USMPDI-011SC-A-07-08-201111 15.54, Description: USMPDI-011SC-A-07-08-201111

1st Func. Penta-Furans

201220R1_16

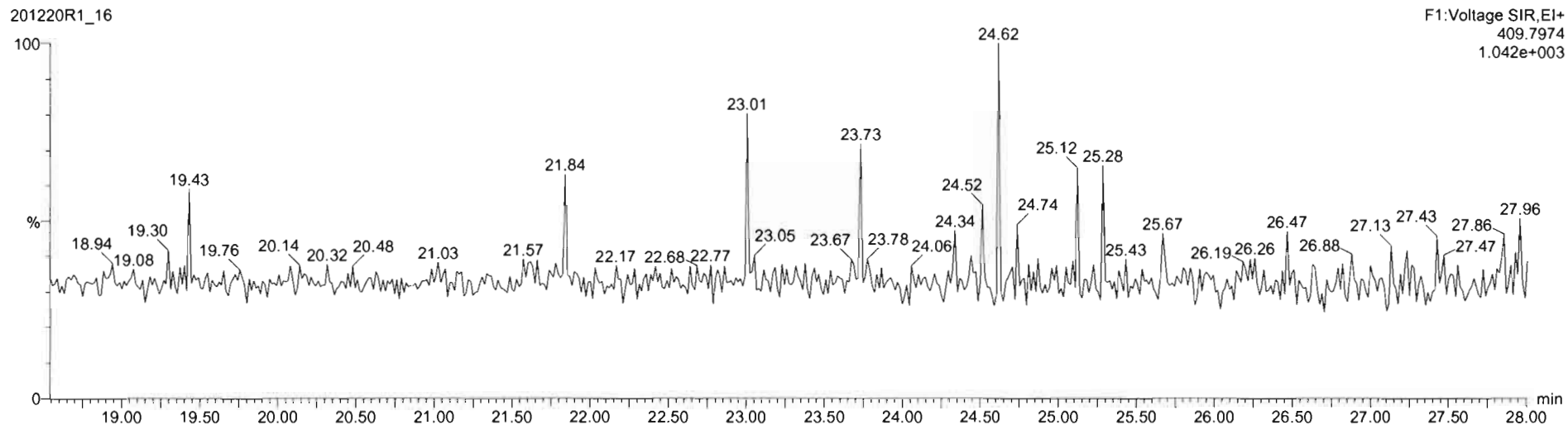


201220R1_16



DPE6

201220R1_16

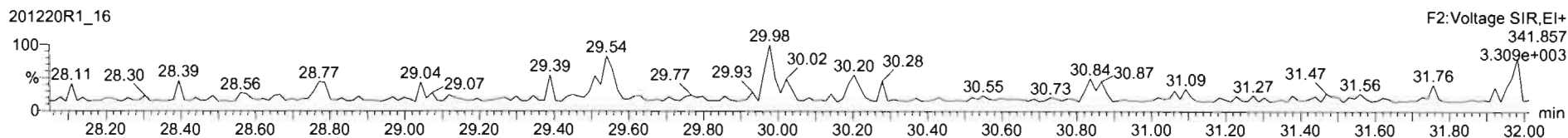
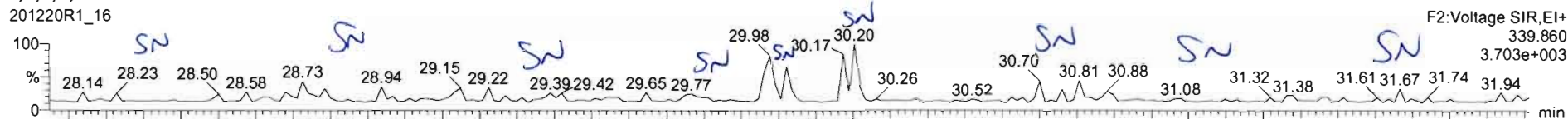


Dataset: Untitled

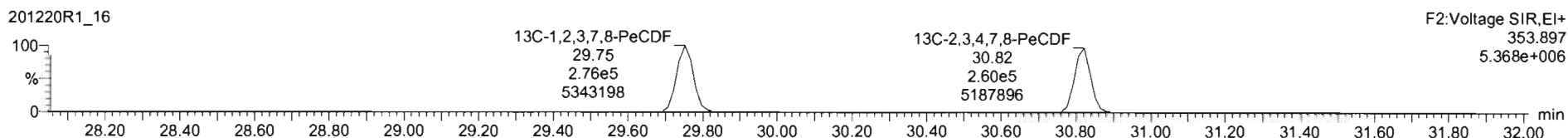
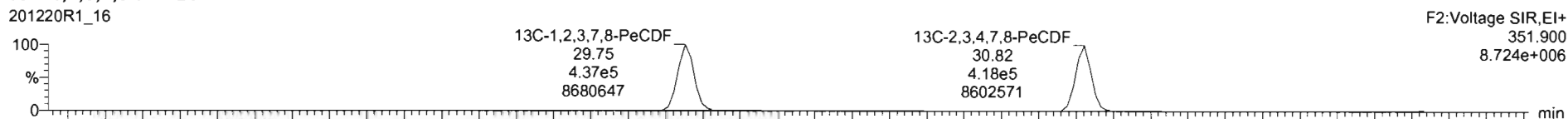
Last Altered: Monday, December 21, 2020 06:50:00 Pacific Standard Time
Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

Name: 201220R1_16, Date: 20-Dec-2020, Time: 19:35:36, ID: 2002532-14 USMPDI-011SC-A-07-08-201111 15.54, Description: USMPDI-011SC-A-07-08-201111

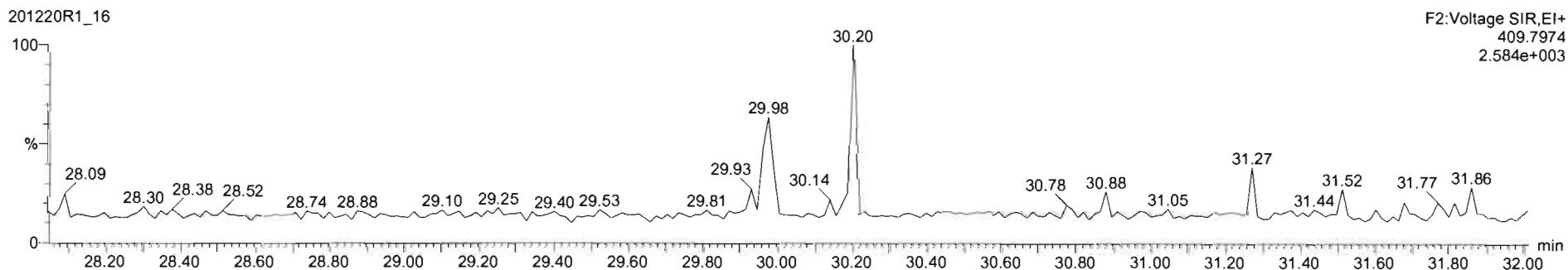
1,2,3,7,8-PeCDF



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



DPE2



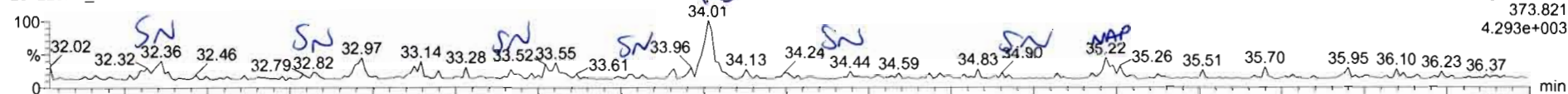
Dataset: Untitled

Last Altered: Monday, December 21, 2020 06:50:00 Pacific Standard Time
Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

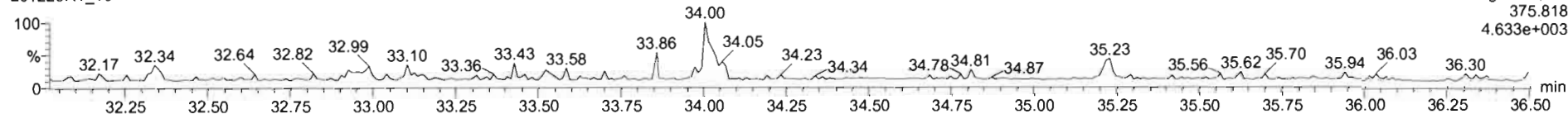
Name: 201220R1_16, Date: 20-Dec-2020, Time: 19:35:36, ID: 2002532-14 USMPDI-011SC-A-07-08-201111 15.54, Description: USMPDI-011SC-A-07-08-201111

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

201220R1_16

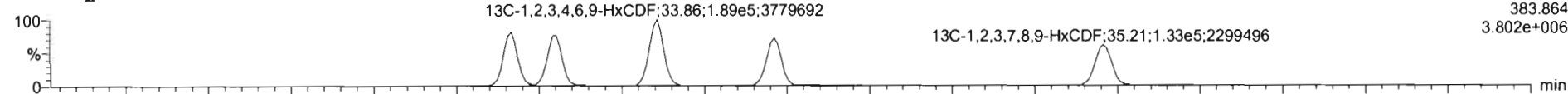


201220R1_16

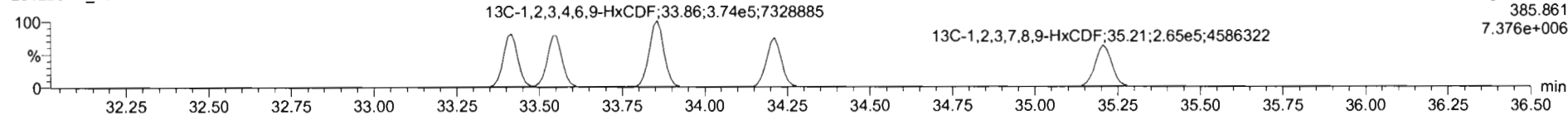


13C-1,2,3,4,7,8-HxCDF

201220R1_16

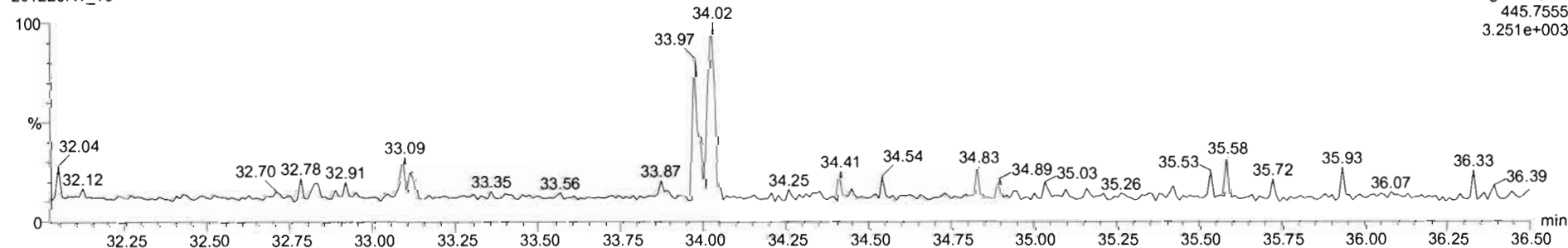


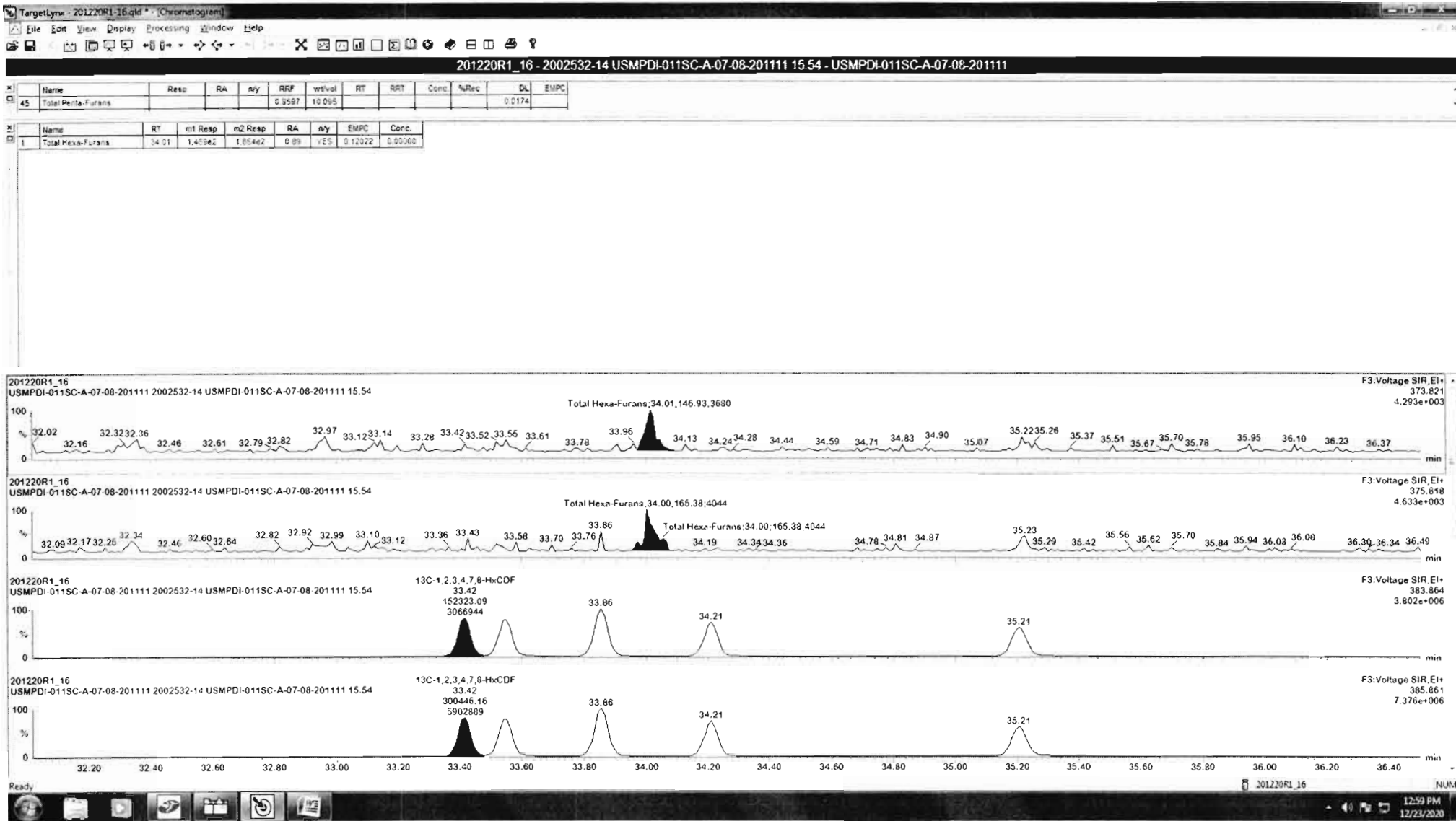
201220R1_16



DPE3

201220R1_16



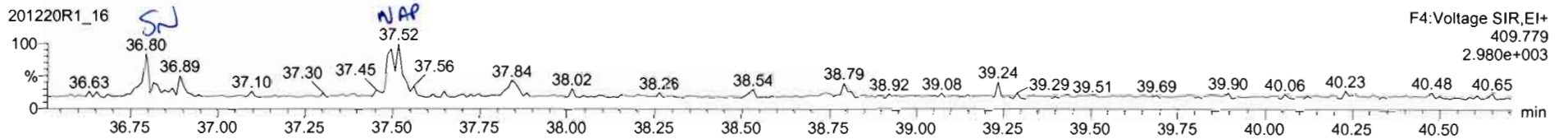
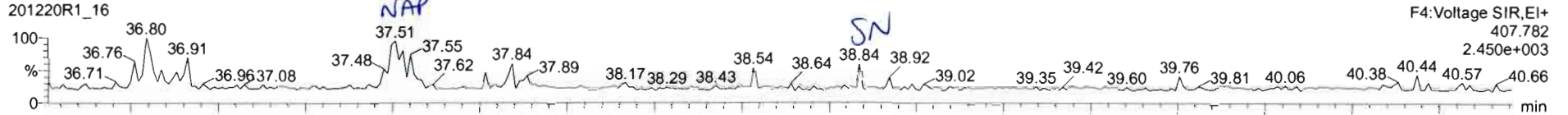


Dataset: Untitled

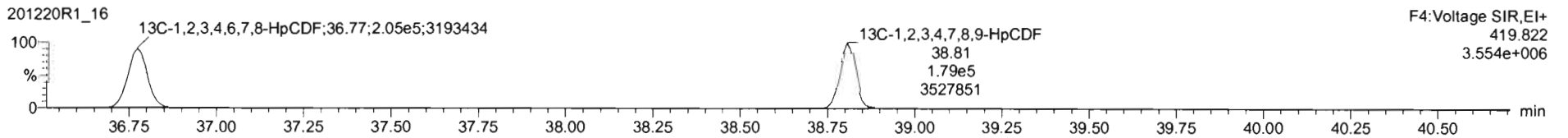
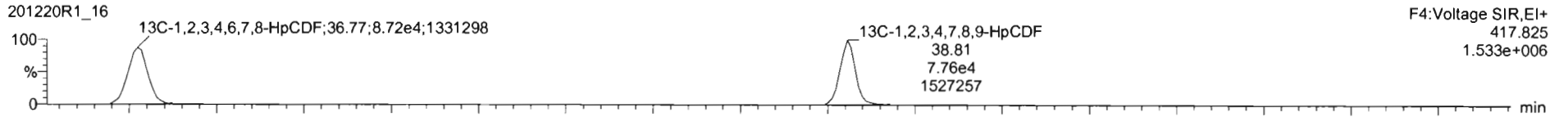
Last Altered: Monday, December 21, 2020 06:50:00 Pacific Standard Time
Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

Name: 201220R1_16, Date: 20-Dec-2020, Time: 19:35:36, ID: 2002532-14 USMPDI-011SC-A-07-08-201111 15.54, Description: USMPDI-011SC-A-07-08-201111

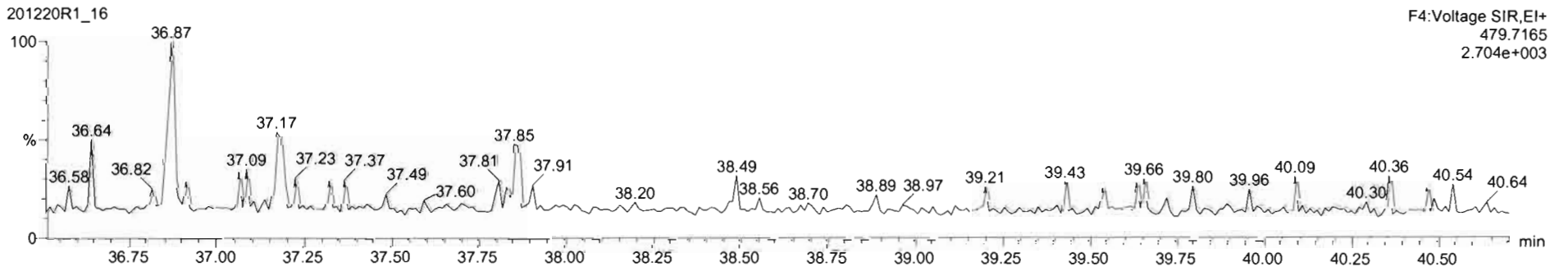
1,2,3,4,6,7,8-HpCDF



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



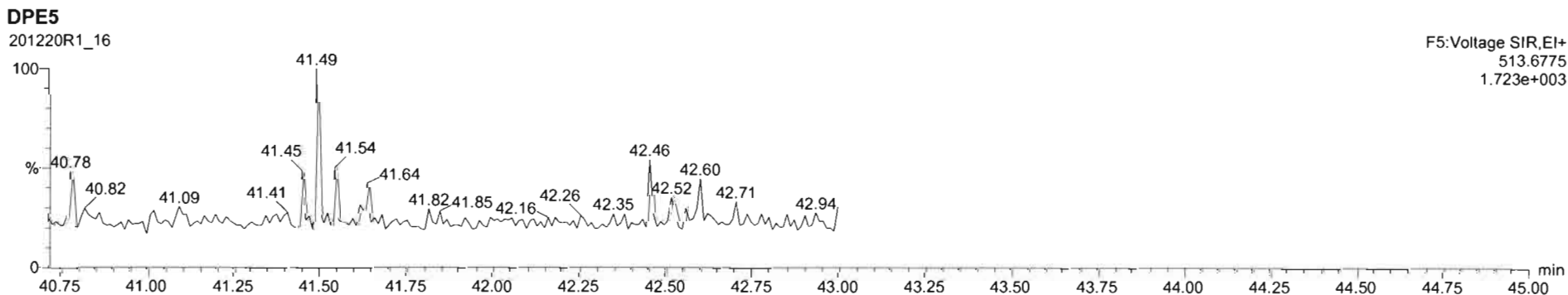
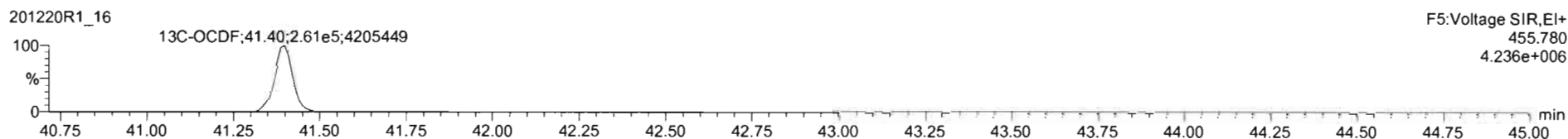
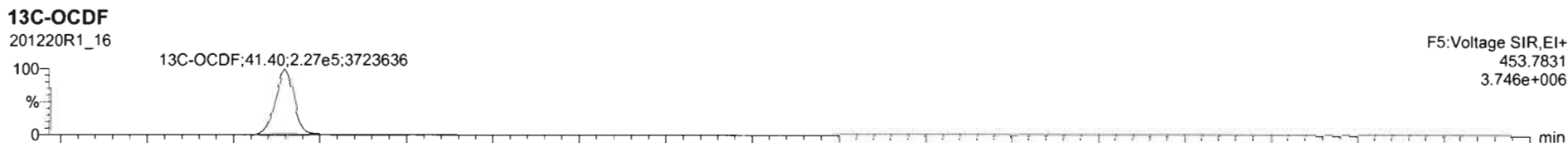
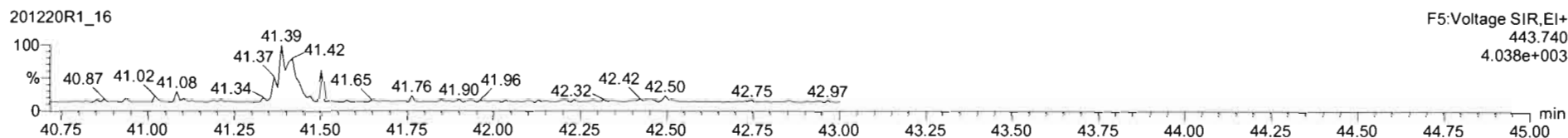
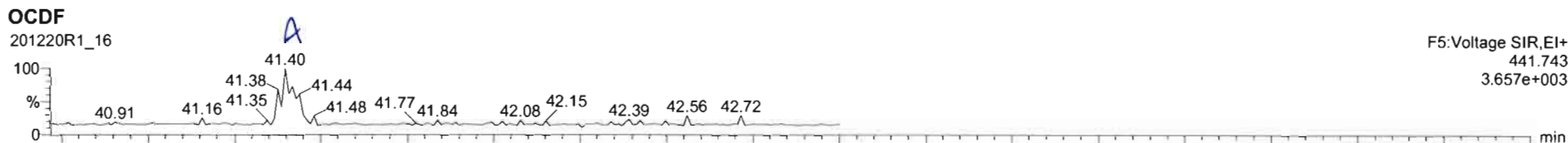
DPE4

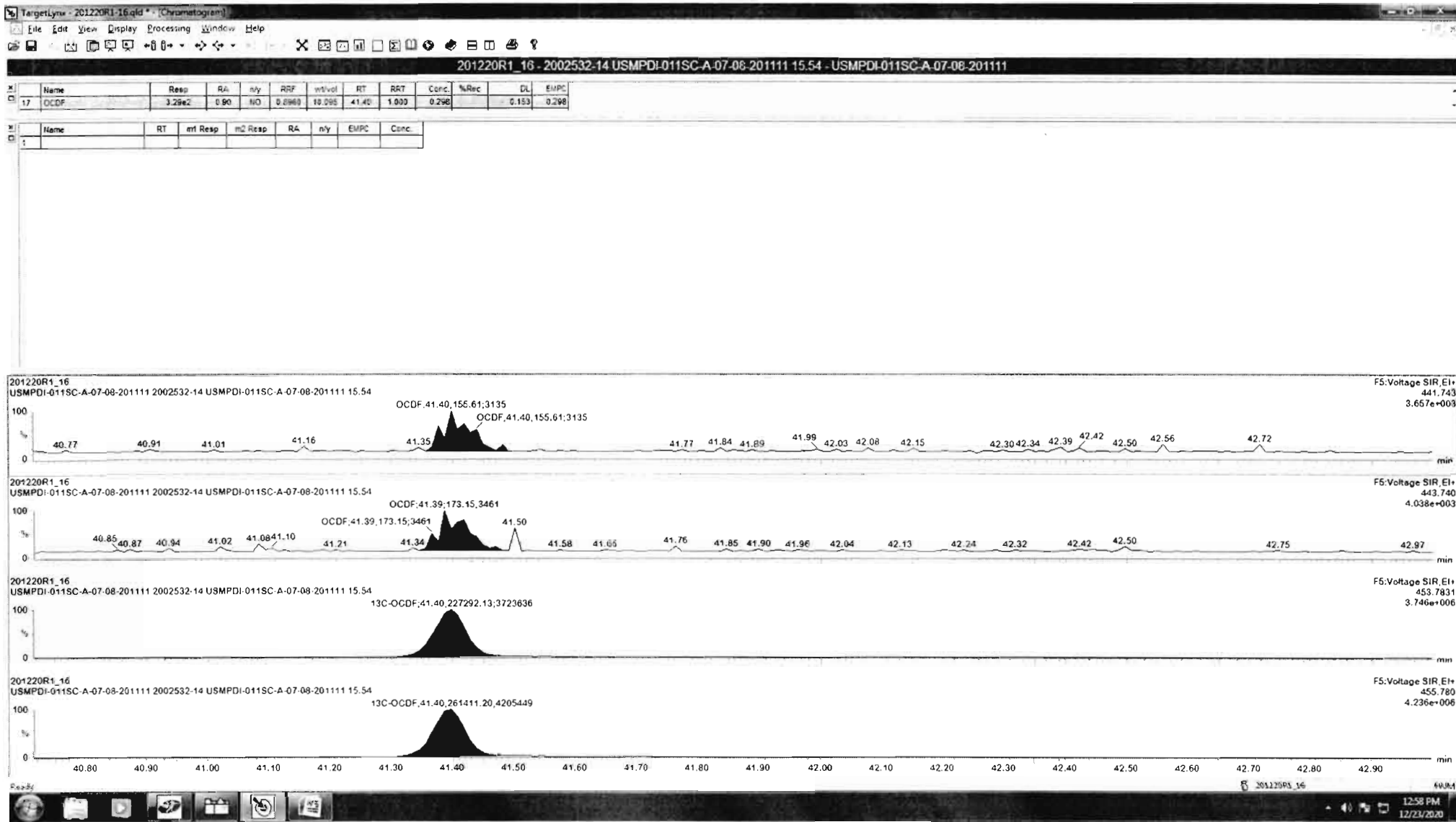


Dataset: Untitled

Last Altered: Monday, December 21, 2020 06:50:00 Pacific Standard Time
Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

Name: 201220R1_16, Date: 20-Dec-2020, Time: 19:35:36, ID: 2002532-14 USMPDI-011SC-A-07-08-201111 15.54, Description: USMPDI-011SC-A-07-08-201111





Dataset: Untitled

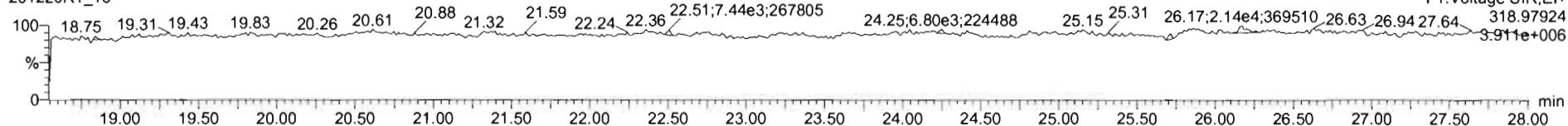
Last Altered: Monday, December 21, 2020 06:50:00 Pacific Standard Time

Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

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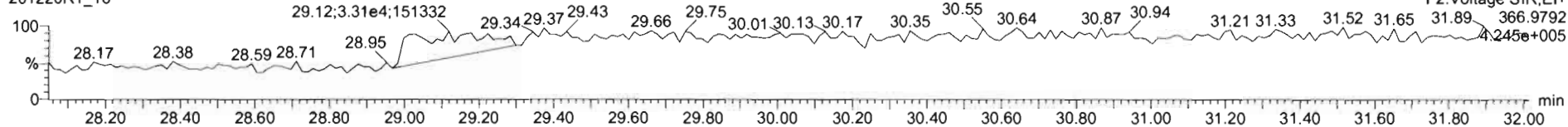
PFK1

201220R1_16



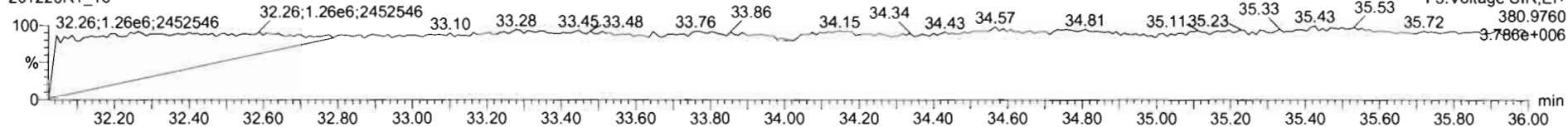
PFK2

201220R1_16



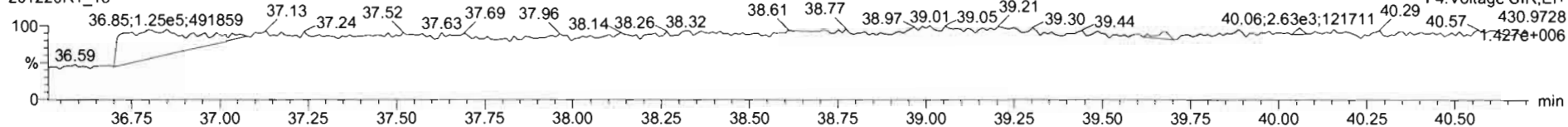
PFK3

201220R1_16



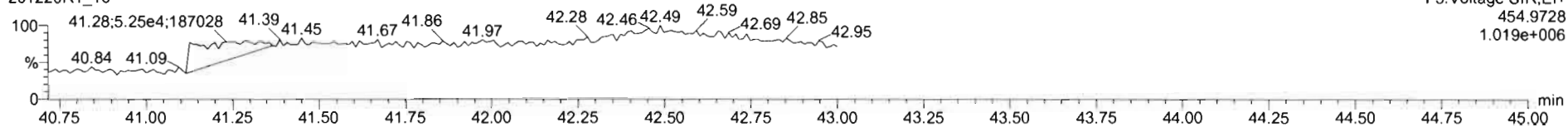
PFK4

201220R1_16



PFK5

201220R1_16



CONTINUING CALIBRATION

..... CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST201217R4-1

Reviewed By: GPB 12/18/2020

Initials & Date

End Calibration ID: ST201217R5-1

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

	<u>Beg.</u>	<u>End</u>
Mass resolution \geq	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K		
1614 1699 429 1613/1668/8280		
Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
GC Break <20%		<input type="checkbox"/> <u>NA</u>
<u>8280 CS1 End Standard:</u>		
- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		<input type="checkbox"/> <u>NA</u>

Comments:

Dataset: U:\VG12.PRO\Results\201217R4\201217R4_1.qld

Last Altered: Thursday, December 17, 2020 3:18:46 PM Pacific Standard Time
Printed: Thursday, December 17, 2020 3:19:36 PM Pacific Standard Time

PLN 12/17/2020
GPB 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: 201217R4_1, Date: 17-Dec-2020, Time: 14:26:46, ID: ST201217R4_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	1.29e5	1.28e6	0.77	NO	0.980	26.41	26.39	NO	1.001	1.001	10.234	102	NO
2	2 1,2,3,7,8-PeCDD	4.75e5	9.81e5	0.62	NO	0.932	31.08	31.06	NO	1.001	1.000	52.022	104	NO
3	3 1,2,3,4,7,8-HxCDD	4.13e5	7.85e5	1.23	NO	1.02	34.37	34.37	NO	1.001	1.001	51.614	103	NO
4	4 1,2,3,6,7,8-HxCDD	4.11e5	8.96e5	1.24	NO	0.902	34.49	34.48	NO	1.001	1.000	50.877	102	NO
5	5 1,2,3,7,8,9-HxCDD	4.10e5	8.56e5	1.23	NO	0.954	34.76	34.76	NO	1.000	1.000	50.250	100	NO
6	6 1,2,3,4,6,7,8-HpCDD	3.13e5	7.02e5	1.03	NO	0.918	38.21	38.22	NO	1.000	1.001	48.678	97.4	NO
7	7 OCDD	5.26e5	1.17e6	0.86	NO	0.866	41.12	41.13	NO	1.000	1.000	104.12	104	NO
8	8 2,3,7,8-TCDF	1.42e5	1.77e6	0.74	NO	0.848	25.69	25.71	NO	1.000	1.001	9.4972	95.0	NO
9	9 1,2,3,7,8-PeCDF	7.10e5	1.45e6	1.54	NO	0.960	29.80	29.81	NO	1.000	1.001	50.884	102	NO
10	10 2,3,4,7,8-PeCDF	6.94e5	1.30e6	1.55	NO	1.07	30.87	30.87	NO	1.001	1.000	50.066	100	NO
11	11 1,2,3,4,7,8-HxCDF	4.67e5	9.73e5	1.21	NO	0.986	33.46	33.46	NO	1.000	1.000	48.657	97.3	NO
12	12 1,2,3,6,7,8-HxCDF	4.97e5	9.80e5	1.21	NO	1.04	33.59	33.59	NO	1.001	1.001	48.803	97.6	NO
13	13 2,3,4,6,7,8-HxCDF	4.56e5	9.21e5	1.21	NO	1.02	34.26	34.25	NO	1.001	1.000	48.500	97.0	NO
14	14 1,2,3,7,8,9-HxCDF	4.12e5	8.47e5	1.21	NO	0.991	35.25	35.26	NO	1.000	1.001	49.081	98.2	NO
15	15 1,2,3,4,6,7,8-HpCDF	3.45e5	6.68e5	1.00	NO	1.05	36.83	36.83	NO	1.000	1.001	49.148	98.3	NO
16	16 1,2,3,4,7,8,9-HpCDF	3.29e5	5.70e5	1.00	NO	1.18	38.84	38.84	NO	1.000	1.000	49.089	98.2	NO
17	17 OCDF	5.55e5	1.24e6	0.87	NO	0.896	41.42	41.42	NO	1.000	1.000	99.726	99.7	NO
18	18 13C-2,3,7,8-TCDD	1.28e6	1.22e6	0.78	NO	1.06	26.38	26.38	NO	1.030	1.030	99.826	99.8	NO
19	19 13C-1,2,3,7,8-PeCDD	9.81e5	1.22e6	0.65	NO	0.785	31.23	31.05	NO	1.219	1.212	102.72	103	NO
20	20 13C-1,2,3,4,7,8-HxCDD	7.85e5	1.09e6	1.27	NO	0.621	34.35	34.35	NO	1.014	1.014	116.40	116	NO
21	21 13C-1,2,3,6,7,8-HxCDD	8.96e5	1.09e6	1.26	NO	0.734	34.47	34.47	NO	1.017	1.017	112.27	112	NO
22	22 13C-1,2,3,7,8,9-HxCDD	8.56e5	1.09e6	1.25	NO	0.723	34.75	34.74	NO	1.026	1.025	108.97	109	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	7.02e5	1.09e6	1.06	NO	0.568	38.26	38.20	NO	1.129	1.127	113.67	114	NO
24	24 13C-OCDD	1.17e6	1.09e6	0.90	NO	0.496	41.19	41.12	NO	1.216	1.213	216.36	108	NO
25	25 13C-2,3,7,8-TCDF	1.77e6	1.85e6	0.78	NO	0.919	25.68	25.68	NO	1.003	1.003	103.67	104	NO
26	26 13C-1,2,3,7,8-PeCDF	1.45e6	1.85e6	1.56	NO	0.715	29.94	29.80	NO	1.169	1.163	109.76	110	NO
27	27 13C-2,3,4,7,8-PeCDF	1.30e6	1.85e6	1.56	NO	0.689	31.03	30.85	NO	1.212	1.205	101.75	102	NO
28	28 13C-1,2,3,4,7,8-HxCDF	9.73e5	1.09e6	0.51	NO	0.873	33.45	33.45	NO	0.987	0.987	102.46	102	NO
29	29 13C-1,2,3,6,7,8-HxCDF	9.80e5	1.09e6	0.51	NO	0.933	33.58	33.57	NO	0.991	0.991	96.618	96.6	NO
30	30 13C-2,3,4,6,7,8-HxCDF	9.21e5	1.09e6	0.51	NO	0.843	34.25	34.24	NO	1.011	1.011	100.51	101	NO
31	31 13C-1,2,3,7,8,9-HxCDF	8.47e5	1.09e6	0.51	NO	0.780	35.25	35.24	NO	1.040	1.040	99.864	99.9	NO

Dataset: U:\VG12.PRO\Results\201217R4\201217R4_1.qld

Last Altered: Thursday, December 17, 2020 3:18:46 PM Pacific Standard Time

Printed: Thursday, December 17, 2020 3:19:36 PM Pacific Standard Time

Name: 201217R4_1, Date: 17-Dec-2020, Time: 14:26:46, ID: ST201217R4_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	6.68e5	1.09e6	0.42	NO	0.726	36.83	36.81	NO	1.087	1.086	84.613	84.6	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.70e5	1.09e6	0.42	NO	0.491	38.83	38.83	NO	1.146	1.146	106.78	107	NO
34	34 13C-OCDF	1.24e6	1.09e6	0.87	NO	0.565	41.41	41.41	NO	1.222	1.222	202.18	101	NO
35	35 37Cl-2,3,7,8-TCDD	1.64e5	1.22e6			1.22	26.38	26.39	NO	1.030	1.031	11.066	111	NO
36	36 13C-1,2,3,4-TCDD	1.22e6	1.22e6	0.79	NO	1.00	25.64	25.61	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.85e6	1.85e6	0.78	NO	1.00	24.13	24.12	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	1.09e6	1.09e6	0.51	NO	1.00	33.92	33.89	NO	1.000	1.000	100.00	100	YES OK

Dataset: Untitled

Last Altered: Friday, December 18, 2020 8:09:54 AM Pacific Standard Time
Printed: Friday, December 18, 2020 8:10:19 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

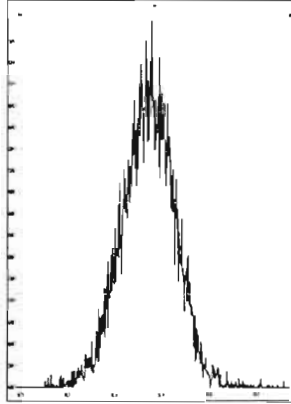
	Name	ID	Acq.Date	Acq.Time
1	201217R4_1	ST201217R4_1 1613 CS3 20L0301	17-Dec-20	14:26:46
2	201217R4_2	B0L0082-BS1 OPR 10	17-Dec-20	15:13:49
3	201217R4_3	SOLVENT BLANK	17-Dec-20	16:01:58
4	201217R4_4	B0L0082-BLK1 Method Blank 10	17-Dec-20	16:46:12
5	201217R4_5	HRMS-201216-02 HEXANE EA350-US	17-Dec-20	17:30:27
6	201217R4_6	HRMS-201216-03 DCM EA237-US	17-Dec-20	18:14:44
7	201217R4_7	2002582-08 NCPDI-077SG-201119 7.67	17-Dec-20	18:58:58
8	201217R4_8	2002582-07 NCPDI-076SG-201119 10.8	17-Dec-20	19:43:13
9	201217R4_9	2002582-06 NCPDI-075SG-201119 14.28	17-Dec-20	20:27:29
10	201217R4_10	2002582-05 NCPDI-074SG-201119 13.37	17-Dec-20	21:11:44
11	201217R4_11	2002493-05@10X USMPDI-014SC-A-10-11-2...	17-Dec-20	21:55:59
12	201217R4_12	2002493-06@10X USMPDI-014SC-A-11-12-2...	17-Dec-20	22:40:14
13	201217R4_13			
14	201217R4_14			
15	201217R4_15			
16	201217R4_16			
17	201217R4_17			
18	201217R5_1			
19	201217R5_2	ST201217R5_1 1613 CS3 20L0301	18-Dec-20	07:08:19

Ⓐ Instrument paused, end resolution check manually processed, injected end standard. HN 12/18/2020

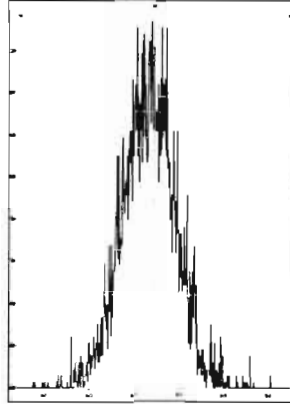
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, December 17, 2020 14:22:35 Pacific Standard Time

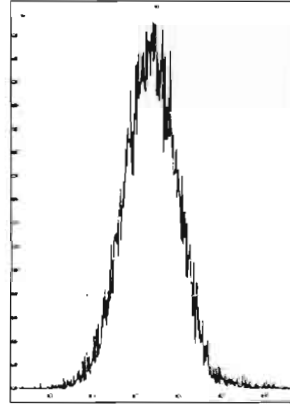
M 292.9824 R 11012



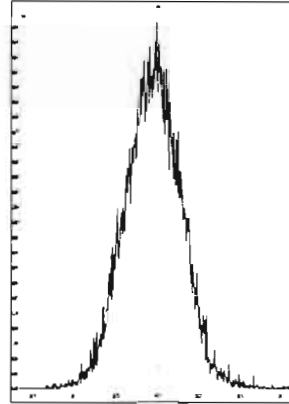
M 304.9824 R 12073



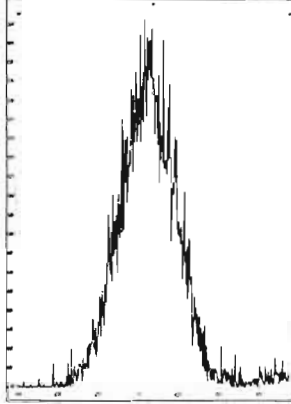
M 318.9792 R 11573



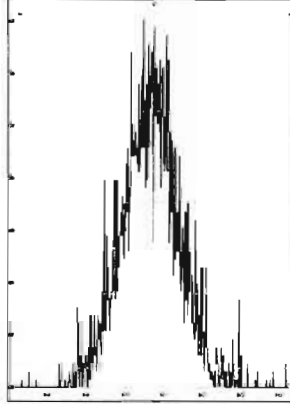
M 330.9792 R 11158



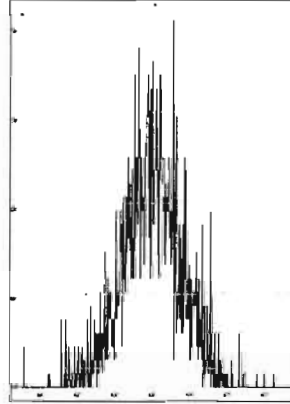
M 342.9792 R 11013



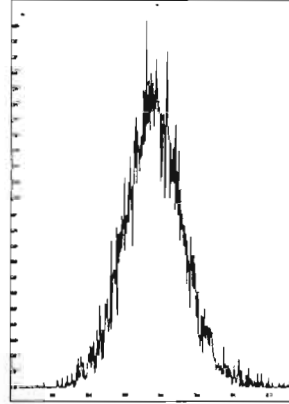
M 354.9792 R 11109



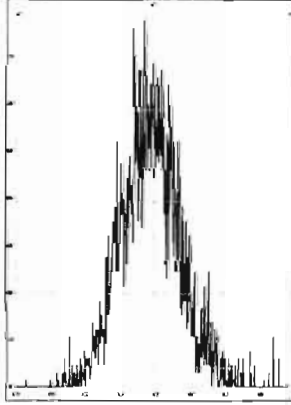
M 366.9792 R 13737



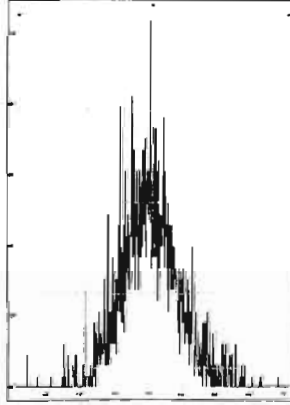
M 380.9760 R 10203



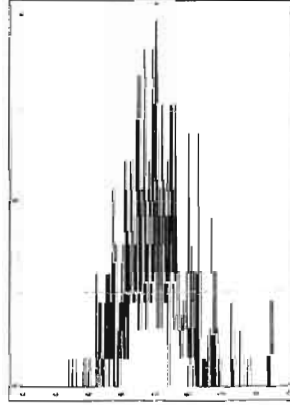
M 392.9760 R 11313



M 404.9760 R 12885



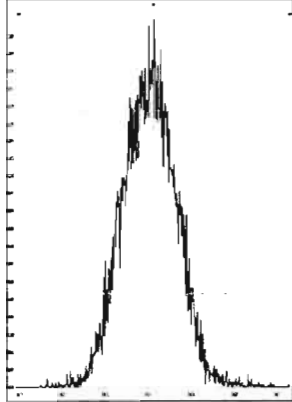
M 416.9760 R 15925



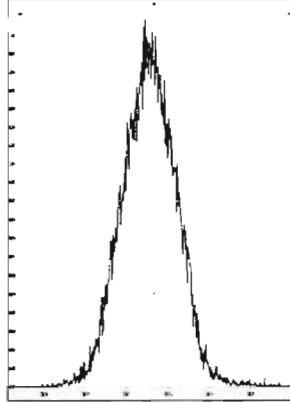
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Printed: Thursday, December 17, 2020 14:22:57 Pacific Standard Time

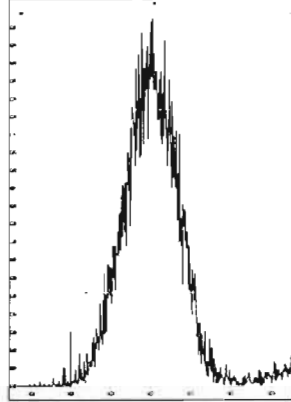
M 318.9792 R 11736



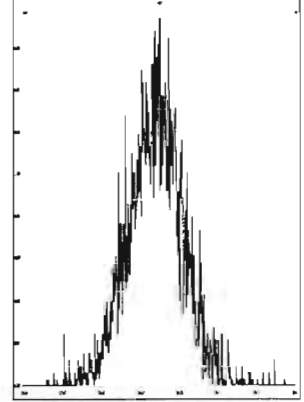
M 330.9792 R 11464



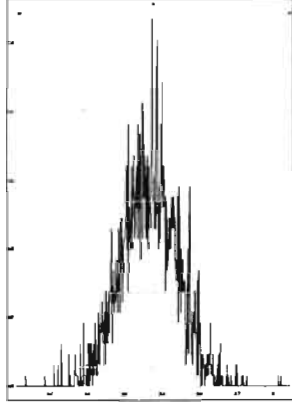
M 342.9792 R 11682



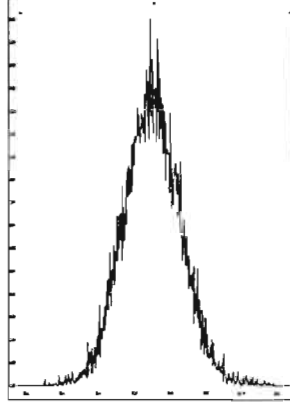
M 354.9792 R 12565



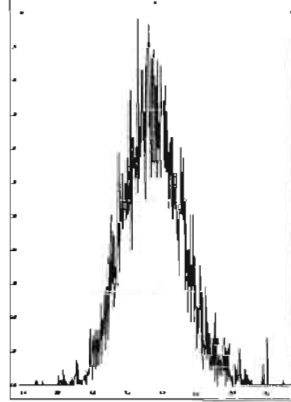
M 366.9792 R 12690



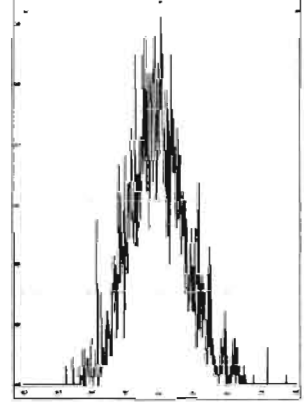
M 380.9760 R 10732



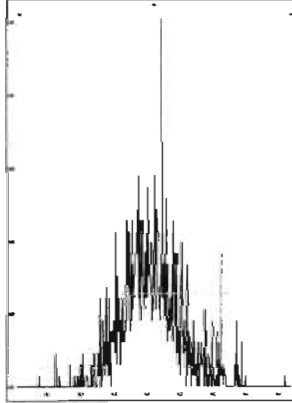
M 392.9760 R 11161



M 404.9760 R 11626



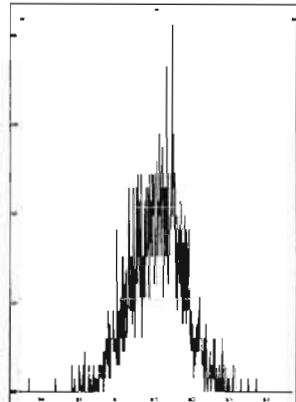
M 416.9760 R 15433



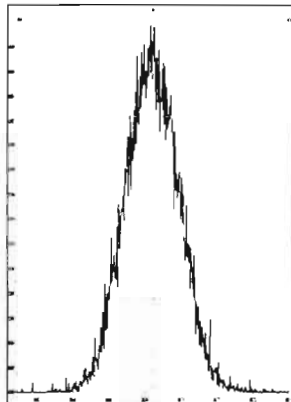
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Printed: Thursday, December 17, 2020 14:23:27 Pacific Standard Time

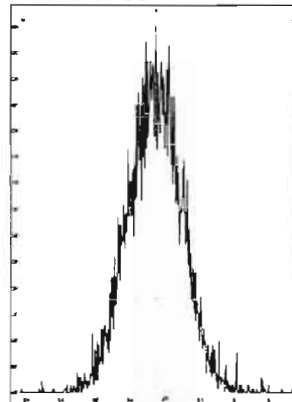
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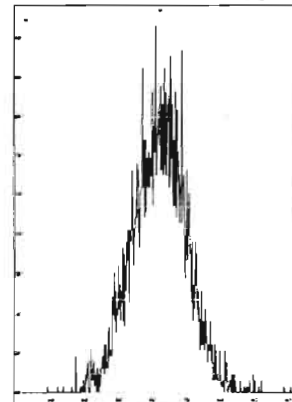
M 380.9760 R 11682



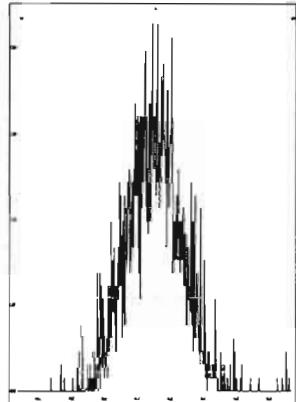
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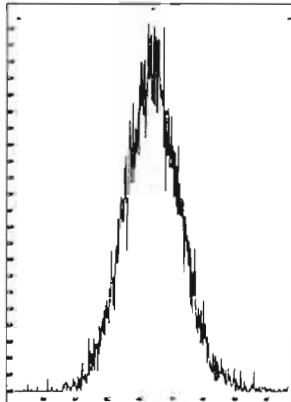
M 404.9760 R 11363



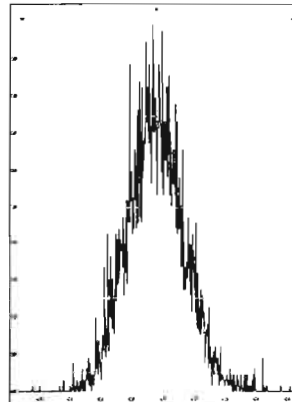
M 416.9760 R 12628



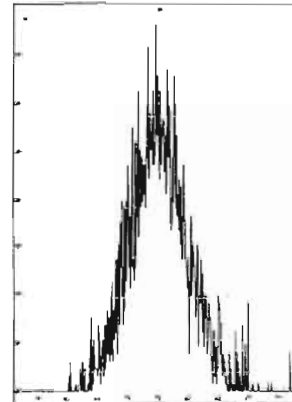
M 430.9728 R 10776



M 442.9728 R 11681



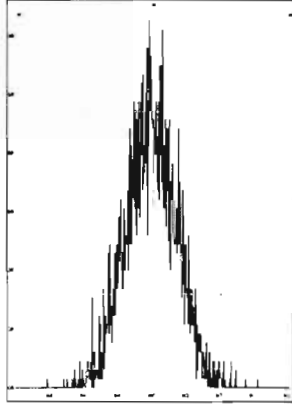
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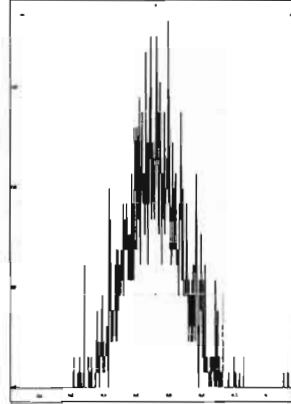
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Printed: Thursday, December 17, 2020 14:23:53 Pacific Standard Time

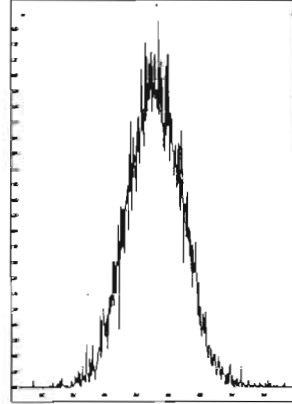
M 404.9760 R 14535



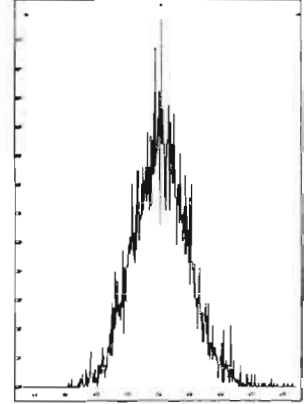
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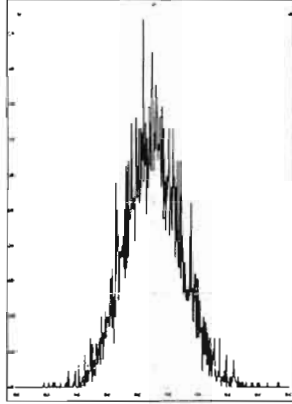
M 430.9728 R 11361



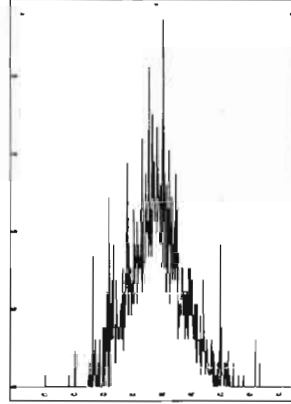
M 442.9728 R 10869



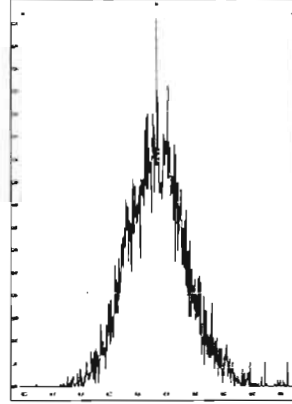
M 454.9728 R 12888



M 466.9728 R 13020



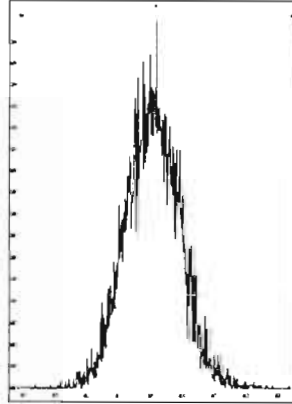
M 480.9696 R 11109



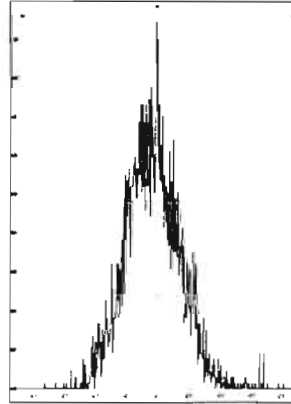
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Printed: Thursday, December 17, 2020 14:24:09 Pacific Standard Time

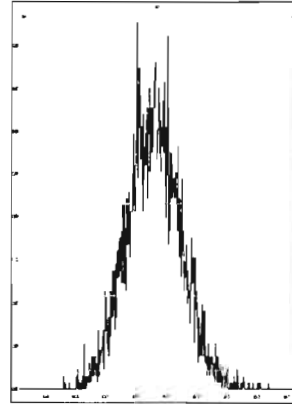
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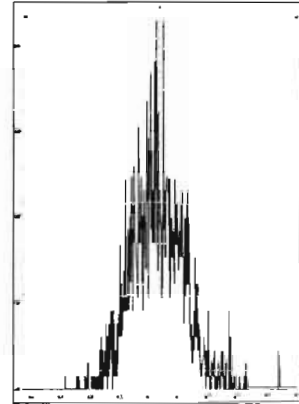
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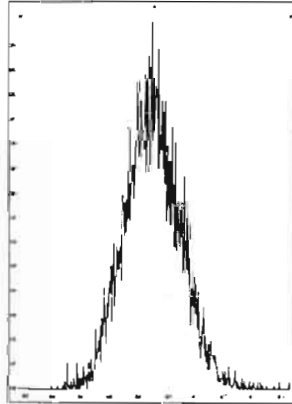
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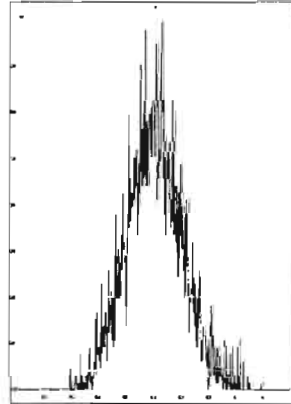
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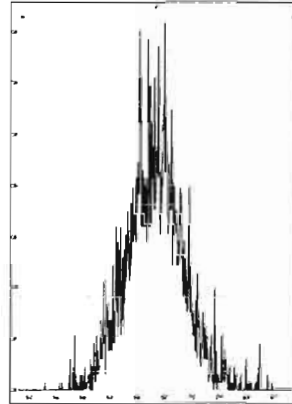
M 480.9696 R 11014



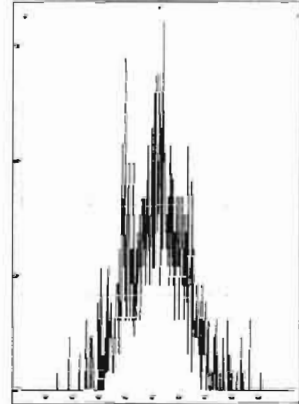
M 492.9696 R 11961



M 504.9696 R 12196



M 516.9697 R 14212



Dataset: U:\VG12.PRO\Results\201217R4\201217R4_CPSM.qld

Last Altered: Thursday, December 17, 2020 3:14:47 PM Pacific Standard Time

Printed: Thursday, December 17, 2020 3:15:35 PM 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: 201217R4_1, Date: 17-Dec-2020, Time: 14:26:46, ID: ST201217R4_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

#	Name	RT
1	1,3,6,8-TCDD (First)	22.59
2	1,2,8,9-TCDD (Last)	27.28
3	1,2,4,7,9-PeCDD (First)	28.82
4	1,2,3,8,9-PeCDD (Last)	31.42
5	1,2,4,6,7,9-HxCDD (First)	32.72
6	1,2,3,7,8,9-HxCDD (Last)	34.76
7	1,2,3,4,6,7,9-HpCDD (First)	37.21
8	1,2,3,4,6,7,8-HpCDD (Last)	38.22
9	1,3,6,8-TCDF (First)	20.33
10	1,2,8,9-TCDF (Last)	27.59
11	1,3,4,6,8-PeCDF (First)	27.16
12	1,2,3,8,9-PeCDF (Last)	31.77
13	1,2,3,4,6,8-HxCDF (First)	32.19
14	1,2,3,7,8,9-HxCDF (Last)	35.26
15	1,2,3,4,6,7,8-HpCDF (First)	36.83
16	1,2,3,4,7,8,9-HpCDF (Last)	38.84

Dataset: U:\VG12.PRO\Results\201217R4\201217R4_CPSM.qld

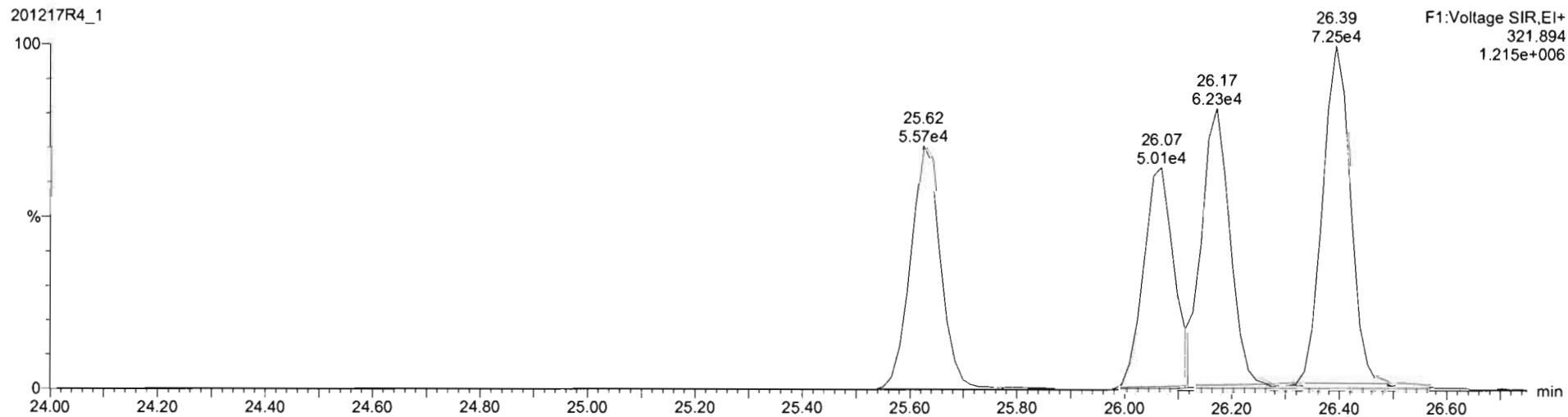
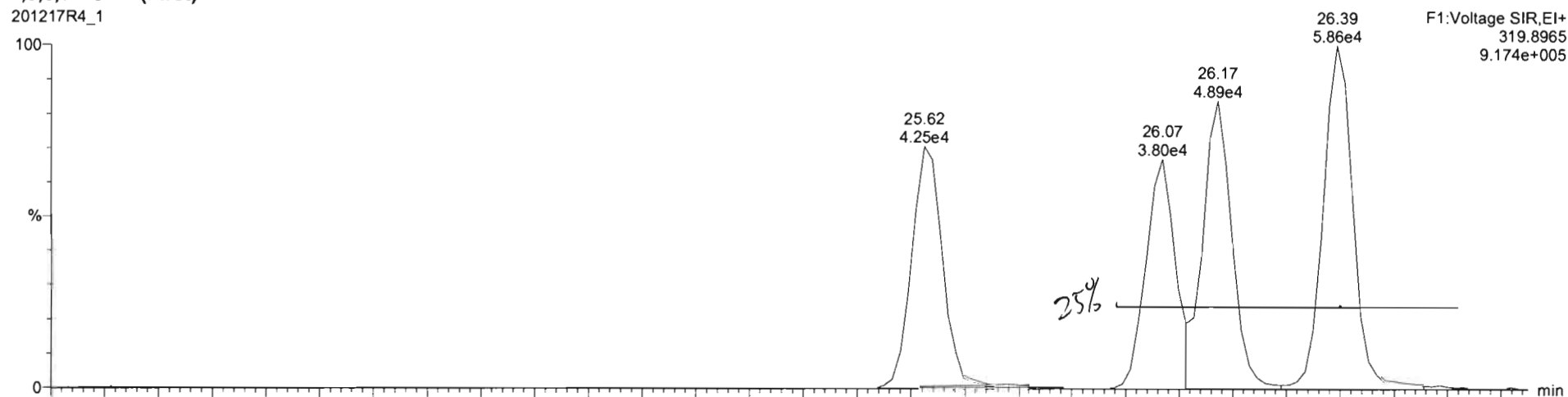
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HN 12/17/2020
GFB 12/18/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 11 Dec 2020 14:14:32
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Name: 201217R4_1, Date: 17-Dec-2020, Time: 14:26:46, ID: ST201217R4_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

1,3,6,8-TCDD (First)
201217R4_1



Dataset: U:\VG12.PRO\Results\201217R4\201217R4_CPSM.qld

Last Altered: Thursday, December 17, 2020 3:14:47 PM Pacific Standard Time

Printed: Thursday, December 17, 2020 3:15:35 PM Pacific Standard Time

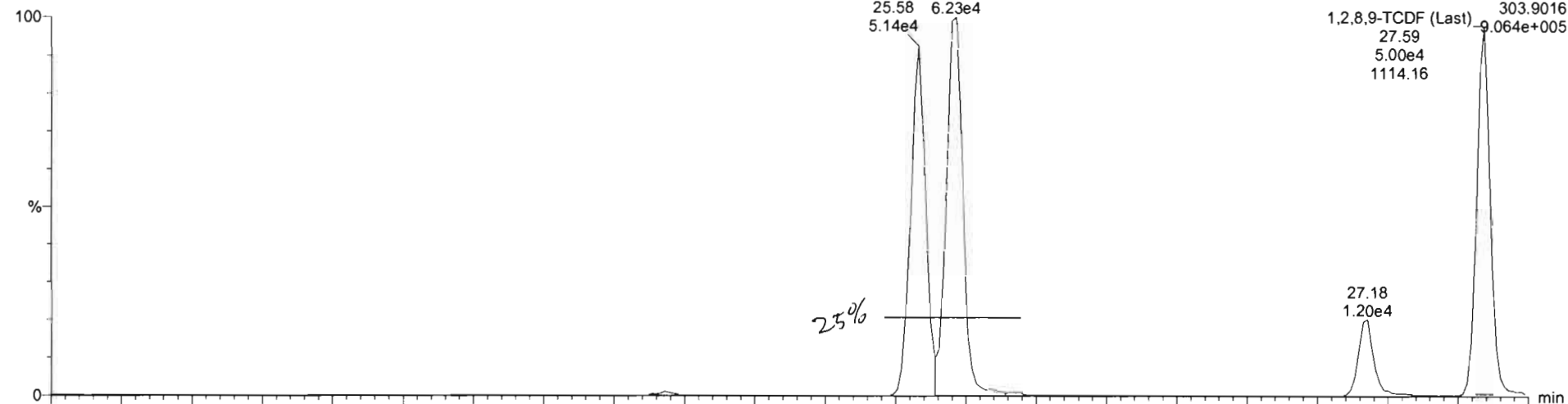
HW 12/17/2020

GRB 12/18/2020

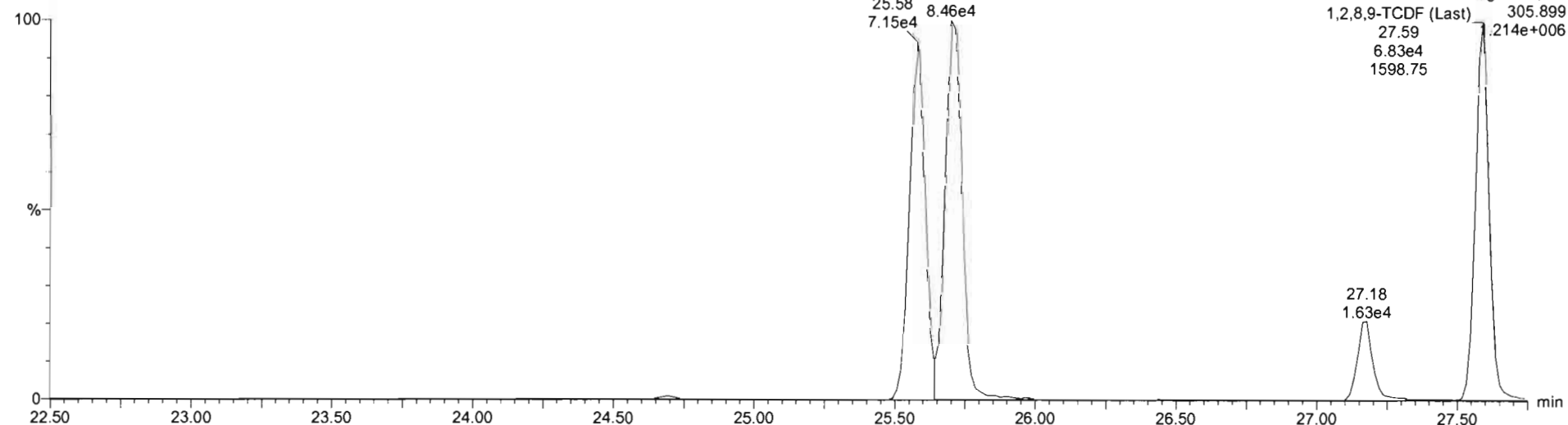
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1,3,6,8-TCDF (First)

201217R4_1



201217R4_1



Dataset: U:\VG12.PRO\Results\201217R4\201217R4_1.qld

Last Altered: Thursday, December 17, 2020 3:18:46 PM Pacific Standard Time

Printed: Thursday, December 17, 2020 3:19:48 PM Pacific Standard Time

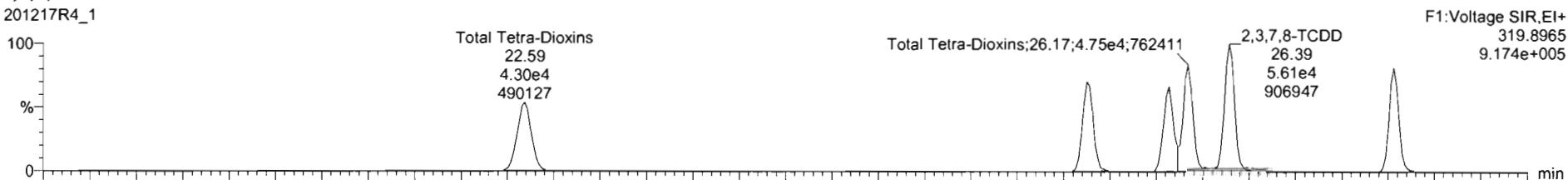
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Name: 201217R4_1, Date: 17-Dec-2020, Time: 14:26:46, ID: ST201217R4_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

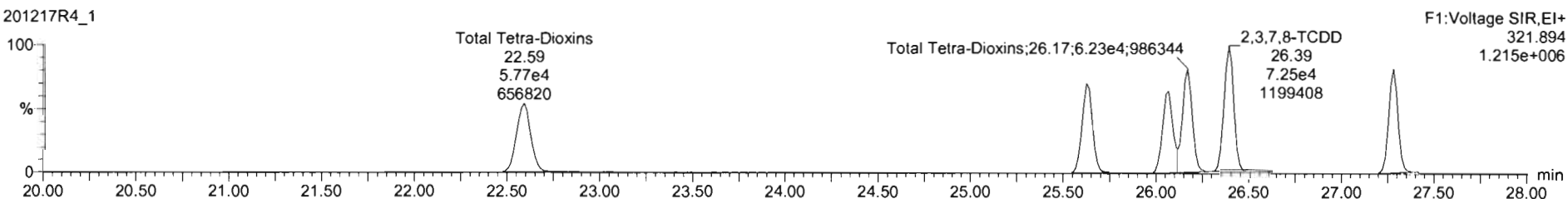
2,3,7,8-TCDD

201217R4_1



F1:Voltage SIR,EI+
319.8965
9.174e+005

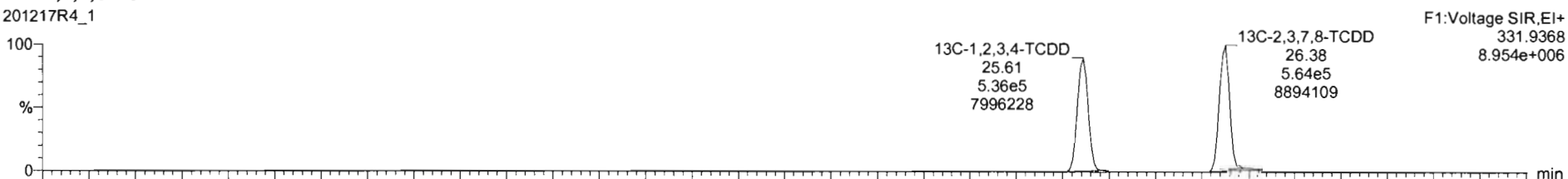
201217R4_1



F1:Voltage SIR,EI+
321.894
1.215e+006

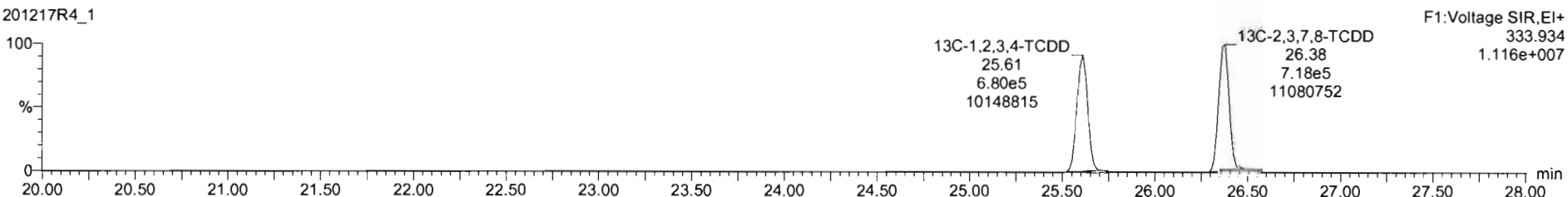
13C-2,3,7,8-TCDD

201217R4_1



F1:Voltage SIR,EI+
331.9368
8.954e+006

201217R4_1



F1:Voltage SIR,EI+
333.934
1.116e+007

Dataset: U:\VG12.PRO\Results\201217R4\201217R4_1.qld

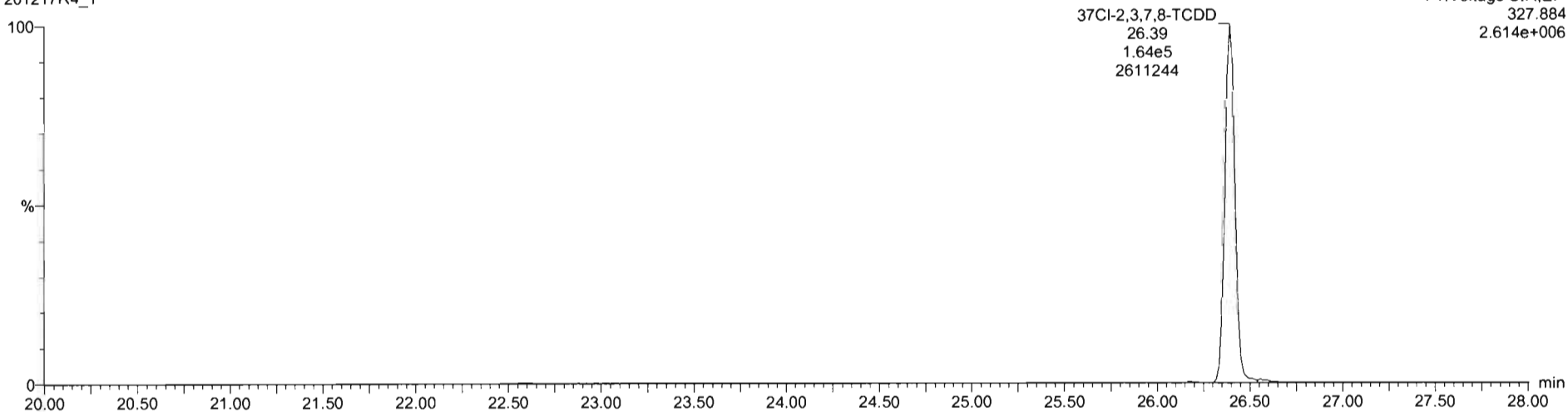
Last Altered: Thursday, December 17, 2020 3:18:46 PM Pacific Standard Time

Printed: Thursday, December 17, 2020 3:19:48 PM Pacific Standard Time

Name: 201217R4_1, Date: 17-Dec-2020, Time: 14:26:46, ID: ST201217R4_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

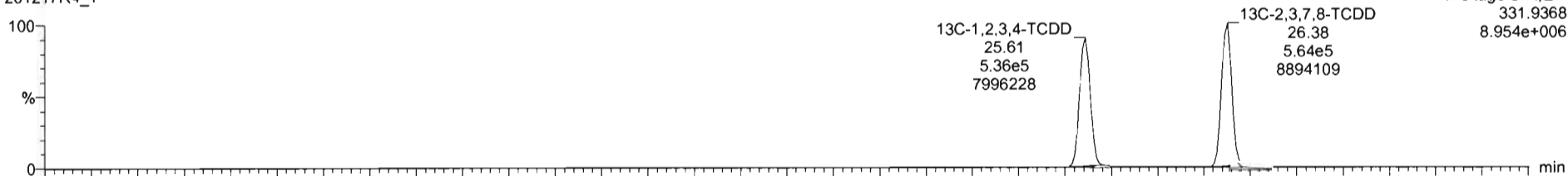
37Cl-2,3,7,8-TCDD

201217R4_1

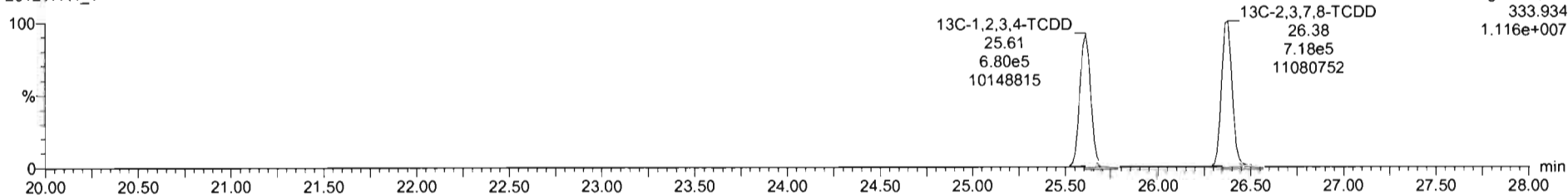


13C-1,2,3,4-TCDD

201217R4_1



201217R4_1



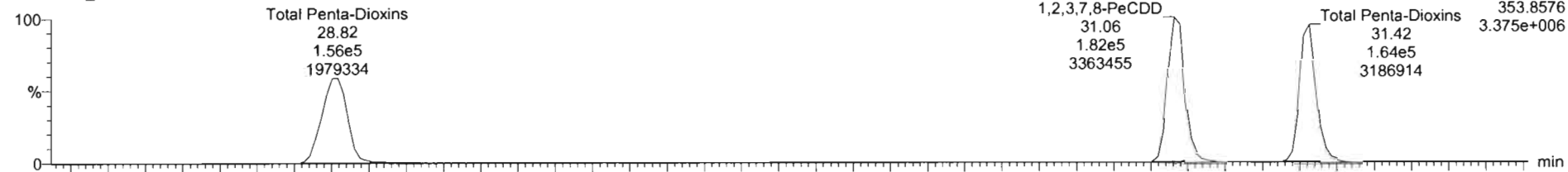
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Last Altered: Thursday, December 17, 2020 3:18:46 PM Pacific Standard Time
Printed: Thursday, December 17, 2020 3:19:48 PM Pacific Standard Time

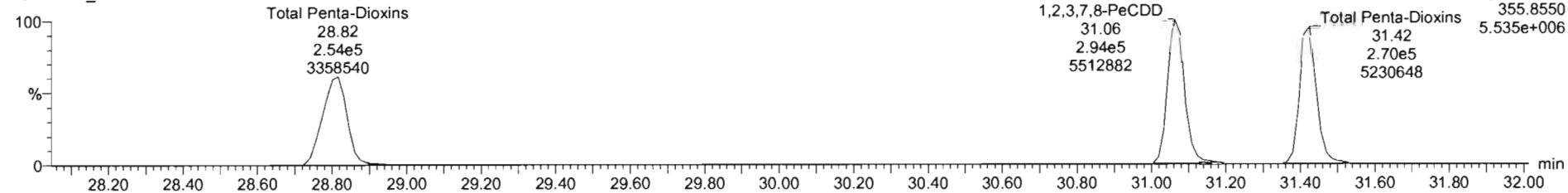
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1,2,3,7,8-PeCDD

201217R4_1

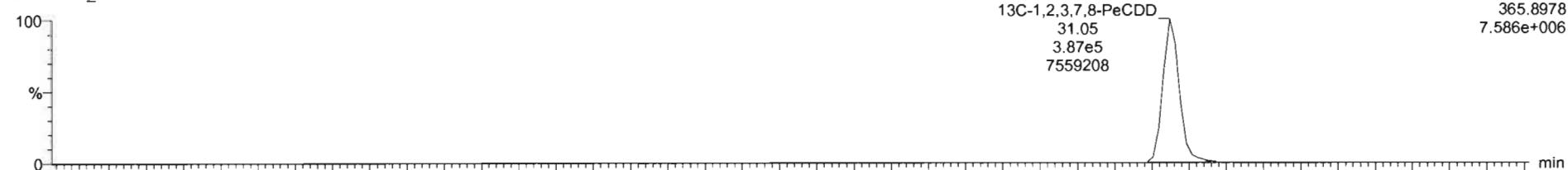


201217R4_1

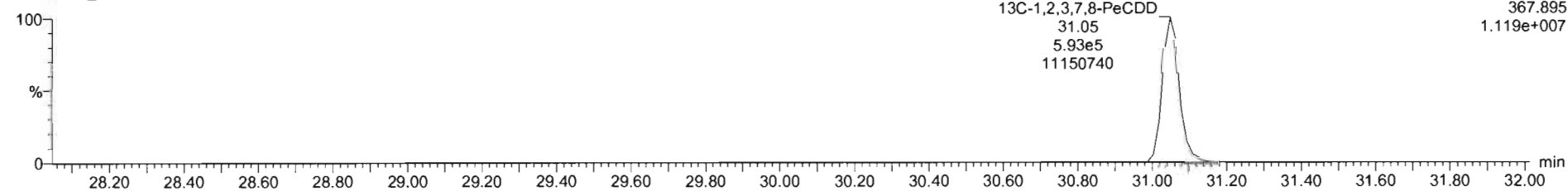


13C-1,2,3,7,8-PeCDD

201217R4_1



201217R4_1

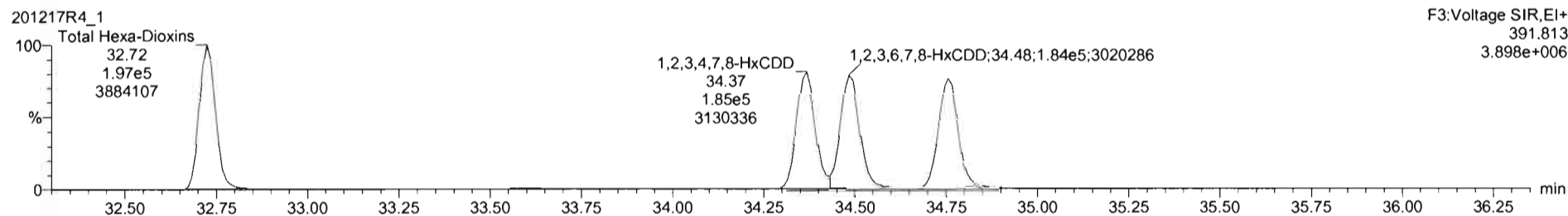
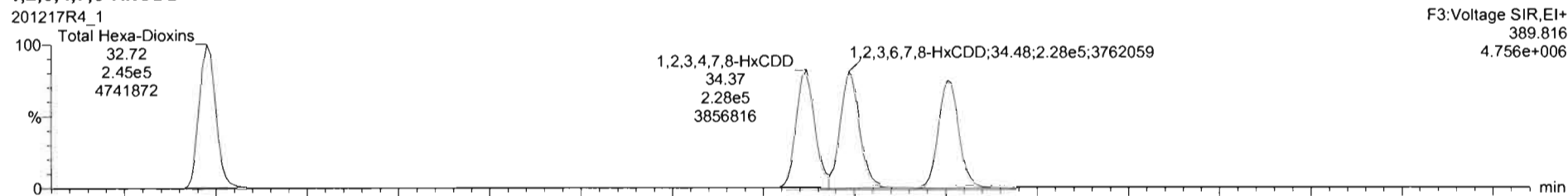


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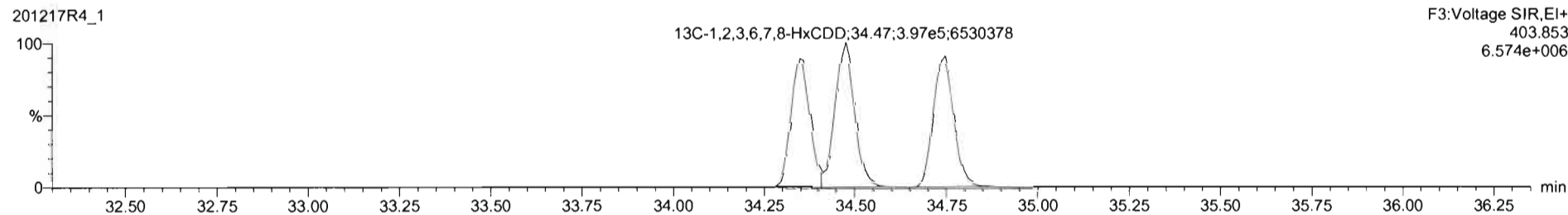
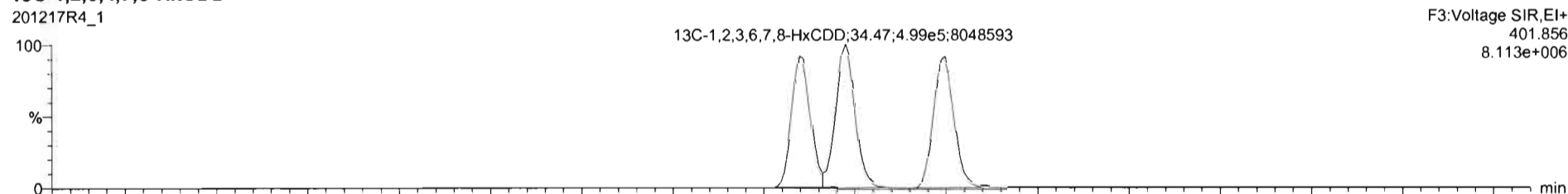
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1,2,3,4,7,8-HxCDD



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

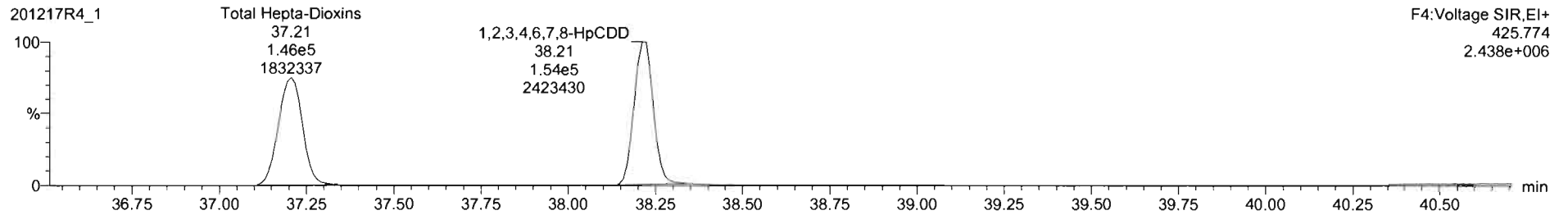
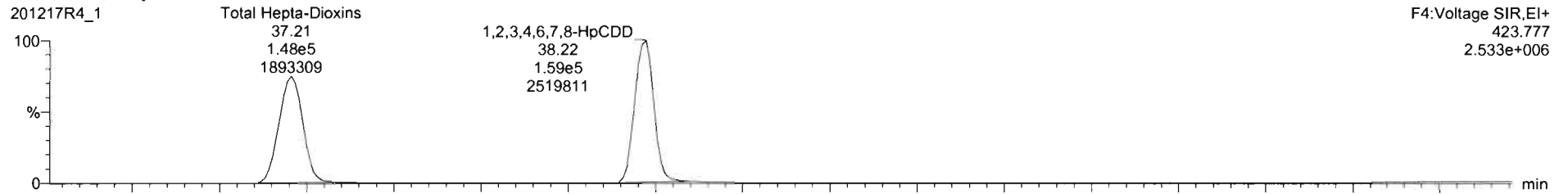


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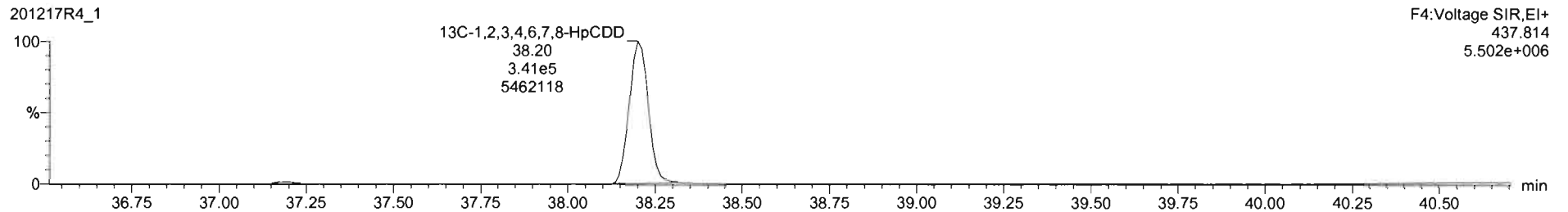
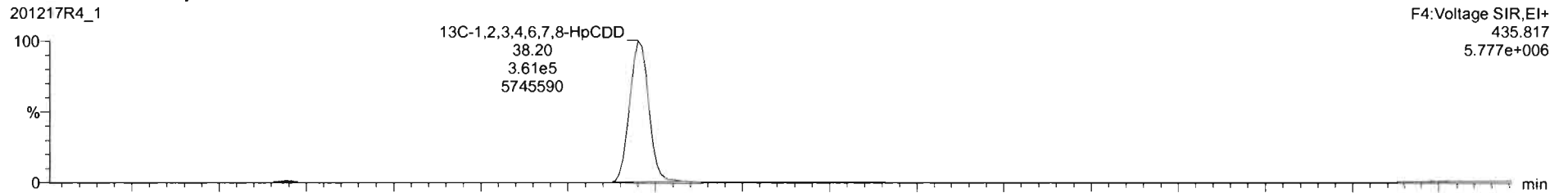
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1,2,3,4,6,7,8-HpCDD



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



Dataset: U:\VG12.PRO\Results\201217R4\201217R4_1.qld

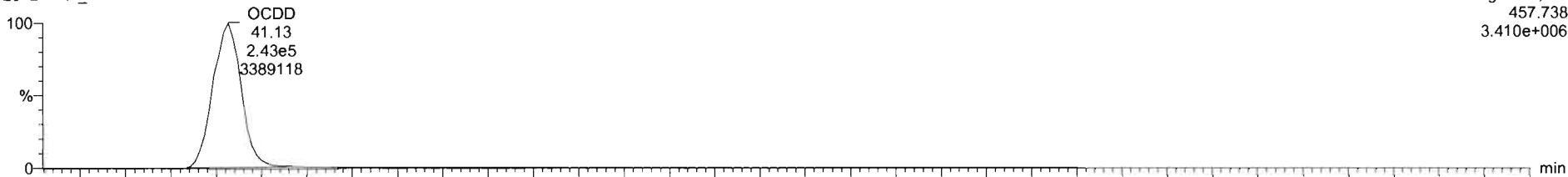
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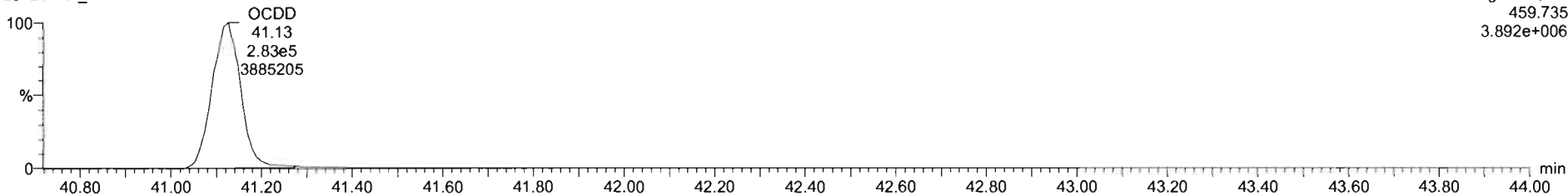
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OCDD

201217R4_1

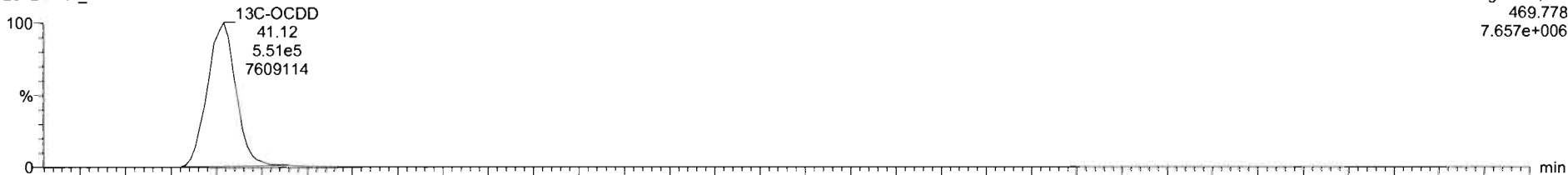


201217R4_1

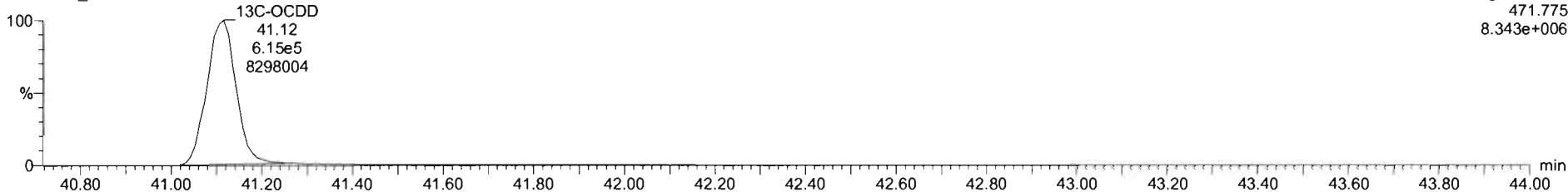


13C-OCDD

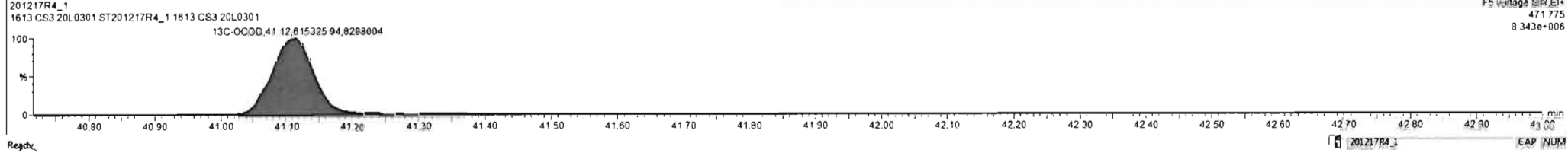
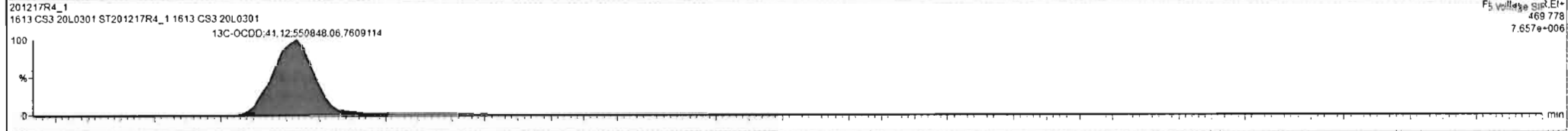
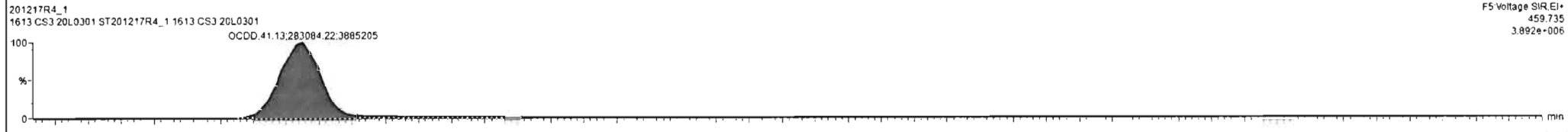
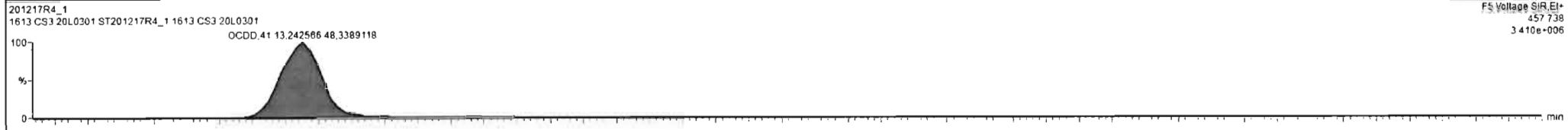
201217R4_1



201217R4_1



#	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	1.29e5	1.28e6	0.77	0.77	NO	0.9805	26.41	26.39	NO	1.001	1.001	10.2	102	NO
2	1,2,3,7,8-PeCDD	4.75e5	9.81e5	0.63	0.62	NO	0.9320	31.08	31.06	NO	1.001	1.000	52.0	104	NO
3	1,2,3,4,7,8-HxCDD	4.13e5	7.85e5	1.24	1.23	NO	1.0203	34.37	34.37	NO	1.001	1.001	51.6	103	NO
4	1,2,3,6,7,8-HxCDD	4.11e5	8.96e5	1.24	1.24	NO	0.9025	34.49	34.48	NO	1.001	1.000	50.9	102	NO
5	1,2,3,7,8,9-HxCDD	4.10e5	8.56e5	1.24	1.23	NO	0.9542	34.76	34.76	NO	1.000	1.000	50.2	100	NO
6	1,2,3,4,6,7,8-HpCDD	3.13e5	7.02e5	1.04	1.03	NO	0.9180	38.21	38.22	NO	1.000	1.001	48.7	97.4	NO
7	OCDD	5.26e5	1.17e6	0.89	0.88	NO	0.8658	41.12	41.13	NO	1.000	1.000	104	104	NO
8	2,3,7,8-TCDF	1.42e5	1.77e6	0.77	0.74	NO	0.8480	25.69	25.71	NO	1.000	1.001	9.50	95.0	NO
9	1,2,3,7,8-PeCDF	7.10e5	1.45e6	1.55	1.54	NO	0.9597	29.80	29.81	NO	1.000	1.001	50.9	102	NO
10	2,3,4,7,8-PeCDF	8.94e5	1.30e6	1.55	1.55	NO	1.0671	30.87	30.87	NO	1.001	1.000	50.1	100	NO
11	1,2,3,4,7,8-HxCDF	4.69e5	9.73e5	1.24	1.22	NO	0.9859	33.46	33.46	NO	1.000	1.000	48.9	97.7	NO
12	1,2,3,6,7,8-HxCDF	4.98e5	9.80e5	1.24	1.21	NO	1.0388	33.59	33.59	NO	1.001	1.001	48.9	97.7	NO
13	2,3,4,6,7,8-HxCDF	4.56e5	9.21e5	1.24	1.21	NO	1.0202	34.26	34.25	NO	1.001	1.000	48.5	97.0	NO



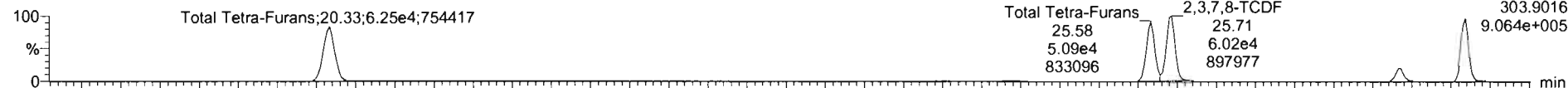
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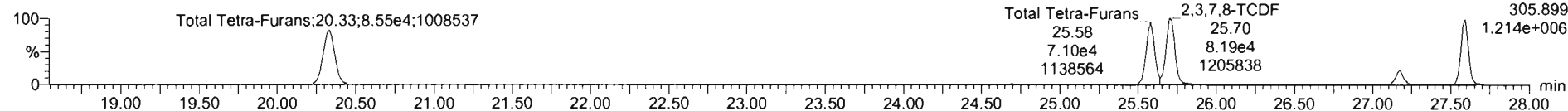
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2,3,7,8-TCDF

201217R4_1

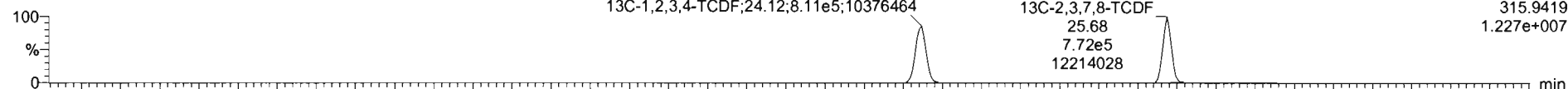


201217R4_1

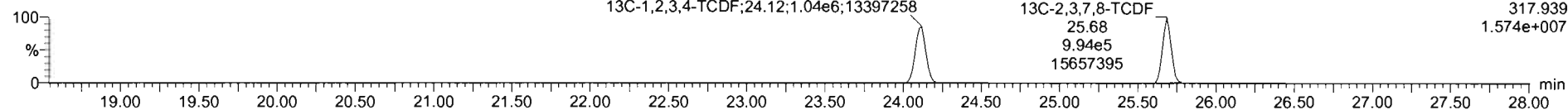


13C-2,3,7,8-TCDF

201217R4_1

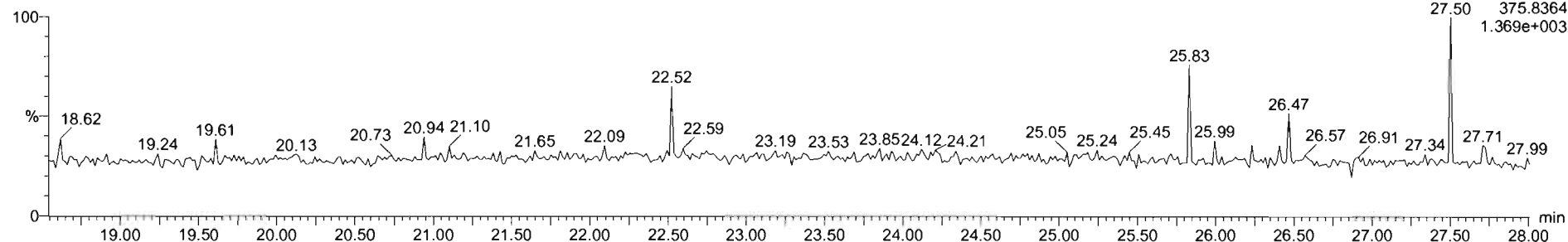


201217R4_1



DPE1

201217R4_1



Dataset: U:\VG12.PRO\Results\201217R4\201217R4_1.qld

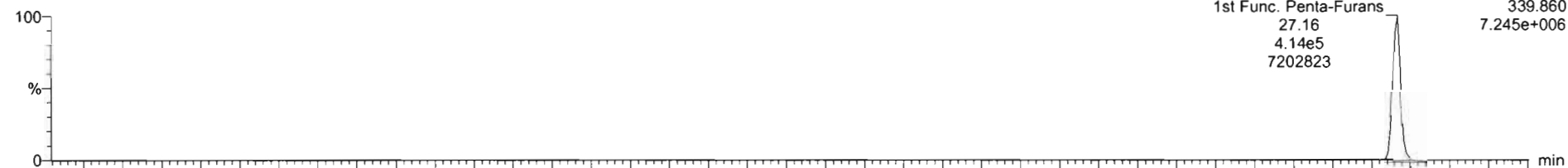
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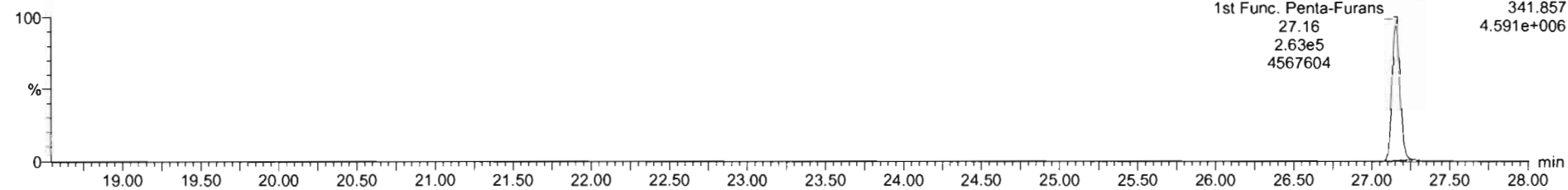
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201217R4_1

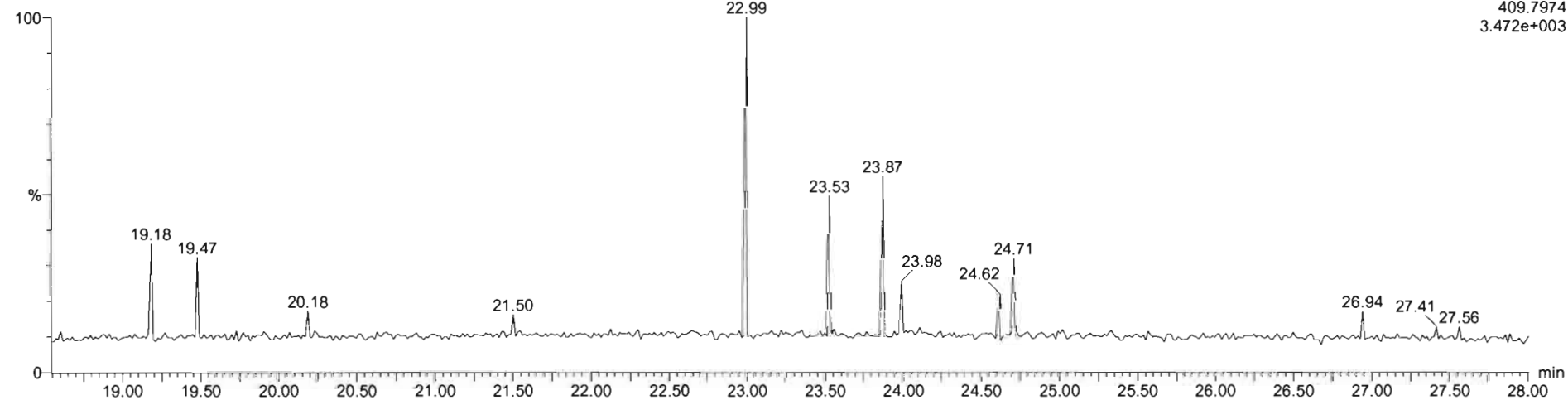


201217R4_1



DPE6

201217R4_1

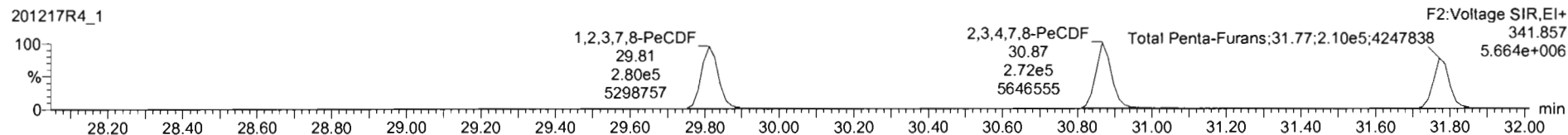
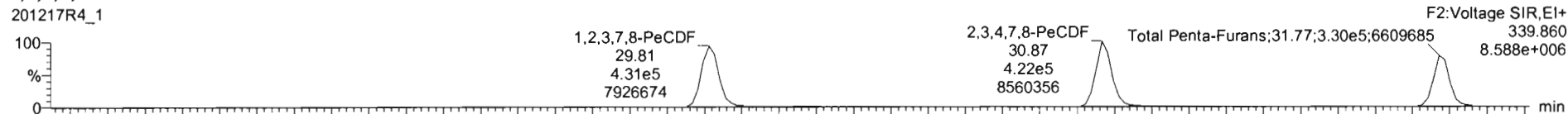


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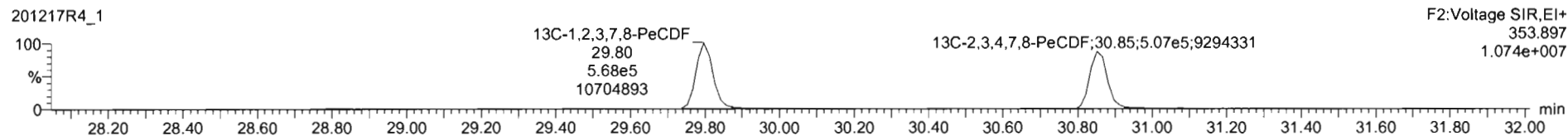
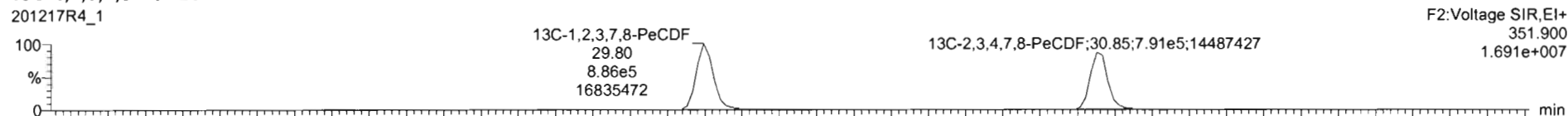
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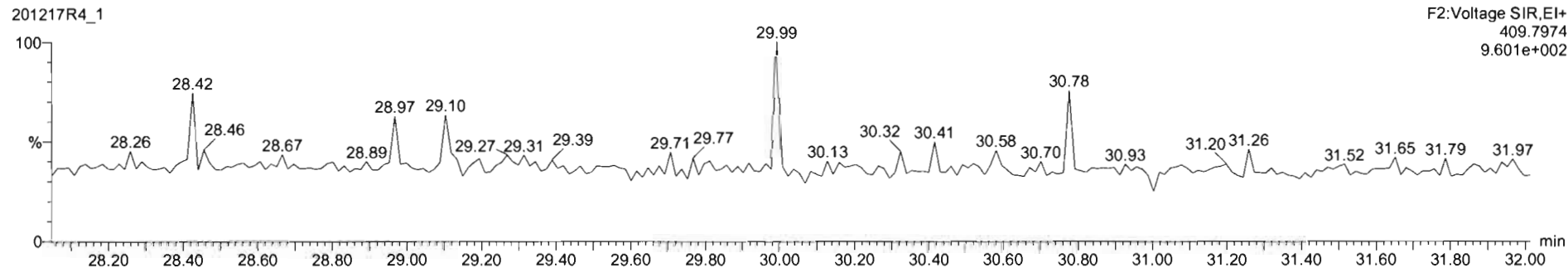
1,2,3,7,8-PeCDF



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



DPE2



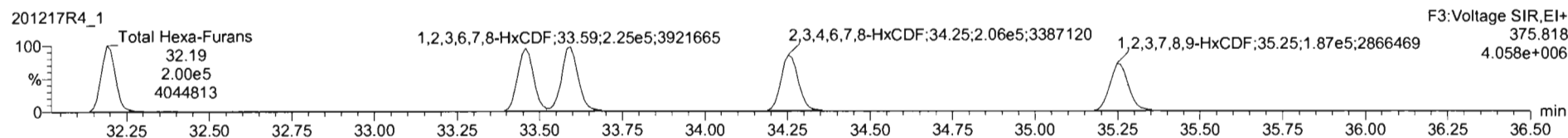
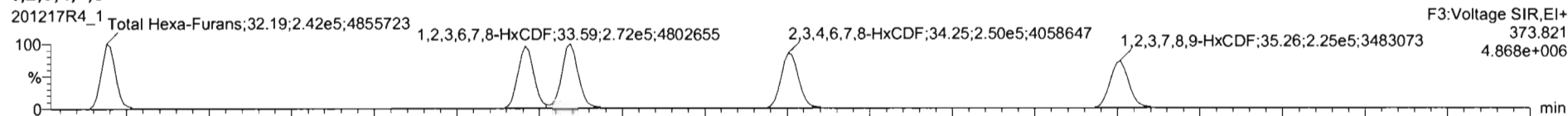
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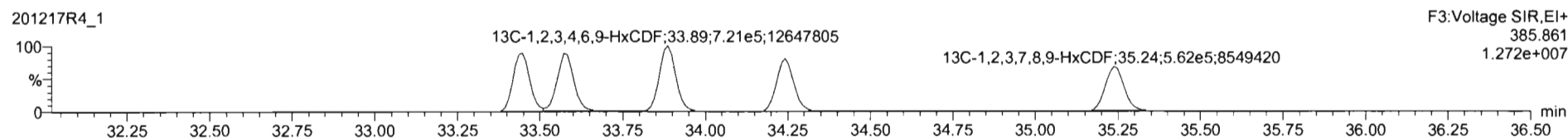
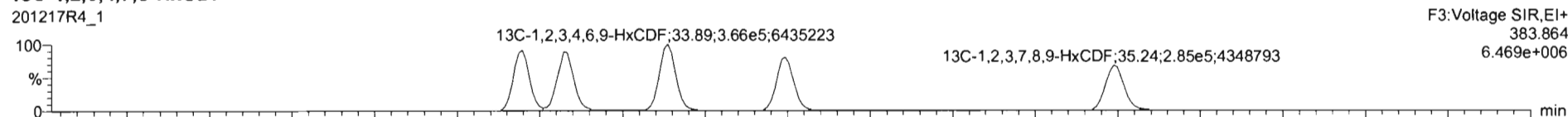
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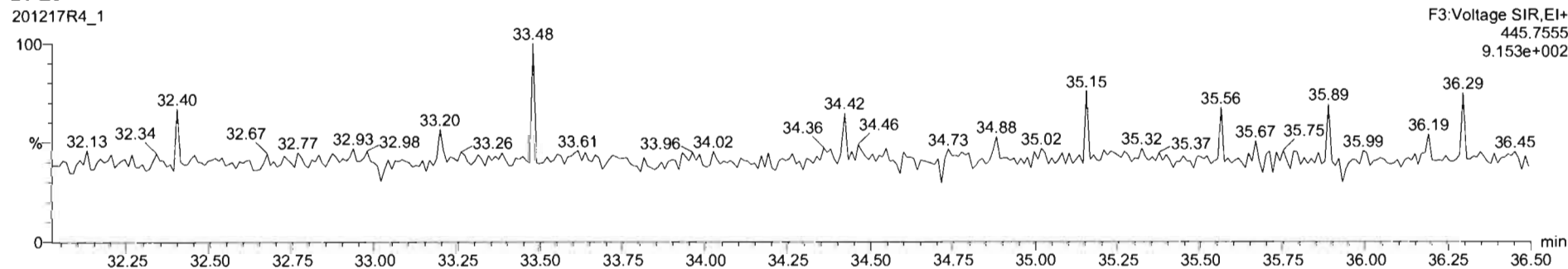
1,2,3,4,7,8-HxCDF



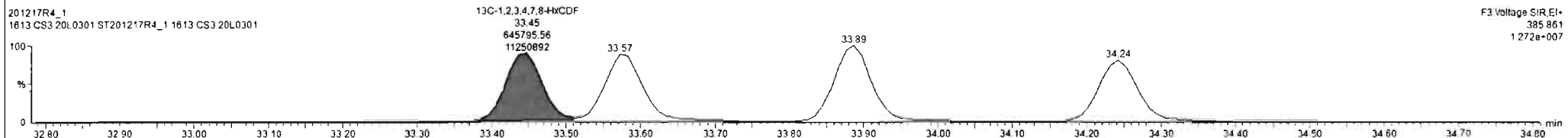
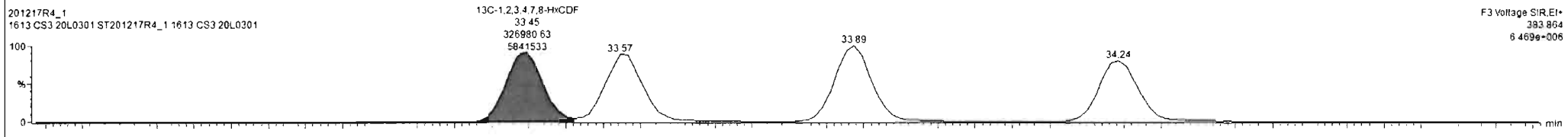
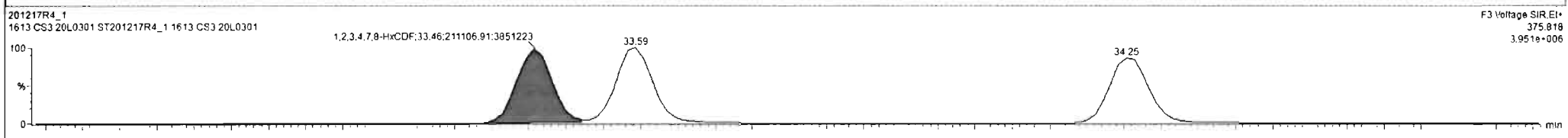
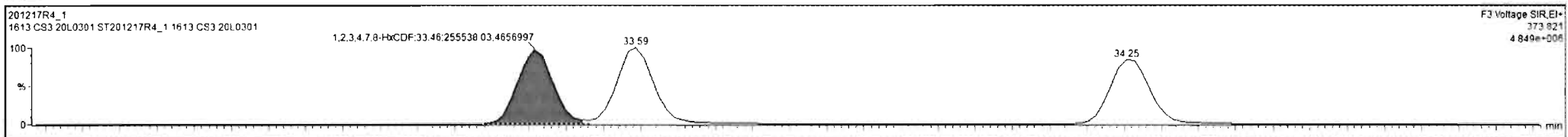
13C-1,2,3,4,7,8-HxCDF



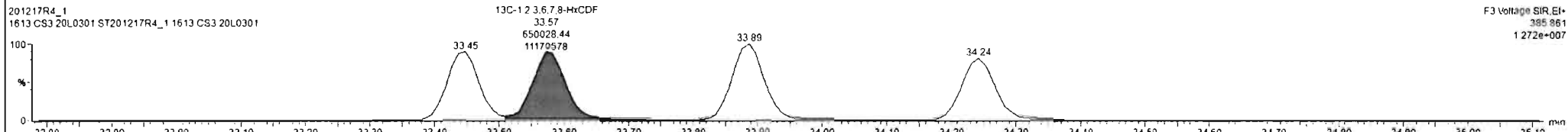
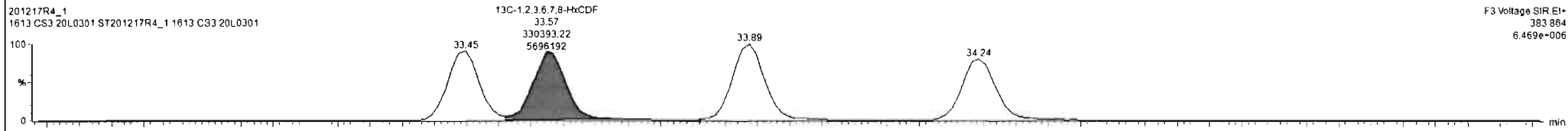
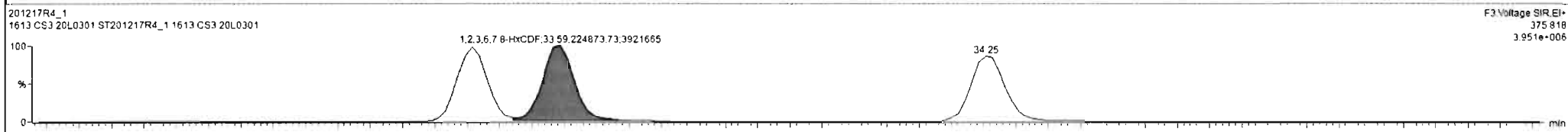
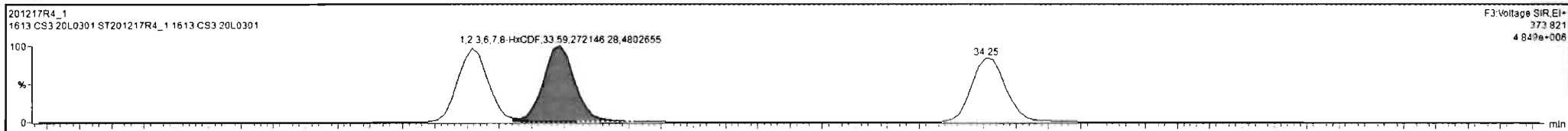
DPE3



#	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	1.29e5	1.28e5	0.77	0.77	NO	0.9805	26.41	26.39	NO	1.001	1.001	10.2	102	NO
2	1,2,3,7,8-PeCDD	4.75e5	9.81e5	0.63	0.62	NO	0.9320	31.08	31.06	NO	1.001	1.000	52.0	104	NO
3	1,2,3,4,7,8-HxCDD	4.13e5	7.85e5	1.24	1.23	NO	1.0203	34.37	34.37	NO	1.001	1.001	51.6	103	NO
4	1,2,3,6,7,8-HxCDD	4.11e5	8.96e5	1.24	1.24	NO	0.9025	34.49	34.48	NO	1.001	1.000	50.9	102	NO
5	1,2,3,7,8,9-HxCDD	4.10e5	8.56e5	1.24	1.23	NO	0.9542	34.76	34.76	NO	1.000	1.000	50.2	100	NO
6	1,2,3,4,6,7,8-HpCDD	3.13e5	7.02e5	1.04	1.03	NO	0.9180	38.21	38.22	NO	1.000	1.001	48.7	97.4	NO
7	OCDD	5.26e5	1.17e5	0.89	0.86	NO	0.8658	41.12	41.13	NO	1.000	1.000	104	104	NO
8	2,3,7,8-TCDF	1.42e5	1.77e5	0.77	0.74	NO	0.8480	25.69	25.71	NO	1.000	1.001	9.50	95.0	NO
9	1,2,3,7,8-PeCDF	7.10e5	1.45e5	1.55	1.54	NO	0.9597	29.60	29.81	NO	1.000	1.001	50.9	102	NO
10	1,2,3,4,7,8-PeCDF	6.94e5	1.30e5	1.55	1.55	NO	1.0871	30.87	30.87	NO	1.001	1.000	50.1	100	NO
11	1,2,3,4,7,8-HxCDF	4.67e5	9.75e5	1.24	1.21	NO	0.9859	33.48	33.48	NO	1.000	1.000	48.7	97.3	NO
12	1,2,3,6,7,8-HxCDF	4.98e5	9.80e5	1.24	1.21	NO	1.0388	33.59	33.59	NO	1.001	1.001	48.9	97.7	NO
13	1,2,3,4,6,7,8-HxCDF	4.58e5	9.21e5	1.24	1.21	NO	1.0202	34.26	34.25	NO	1.001	1.000	48.5	97.0	NO



#	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	1.29e5	1.28e5	0.77	0.77	NO	0.9805	26.41	26.39	NO	1.001	1.001	10.2	102	NO
2	1,2,3,7,8-PeCDD	4.75e5	9.81e5	0.63	0.62	NO	0.9320	31.08	31.06	NO	1.001	1.000	52.0	104	NO
3	1,2,3,4,7,8-HxCDD	4.13e5	7.85e5	1.24	1.23	NO	1.0203	34.37	34.37	NO	1.001	1.001	51.6	103	NO
4	1,2,3,6,7,8-HxCDD	4.11e5	8.96e5	1.24	1.24	NO	0.9025	34.49	34.48	NO	1.001	1.000	50.9	102	NO
5	1,2,3,7,8,9-HxCDD	4.10e5	8.56e5	1.24	1.23	NO	0.9542	34.76	34.76	NO	1.000	1.000	50.2	100	NO
6	1,2,3,4,6,7,8-HpCDD	3.13e5	7.02e5	1.04	1.03	NO	0.9180	38.21	38.22	NO	1.000	1.001	48.7	97.4	NO
7	OCDD	5.26e5	1.17e6	0.89	0.86	NO	0.8658	41.12	41.13	NO	1.000	1.000	104	104	NO
8	2,3,7,8-TCDF	1.42e5	1.77e6	0.77	0.74	NO	0.8480	25.69	25.71	NO	1.000	1.001	9.50	95.0	NO
9	1,2,3,7,8-PeCDF	7.10e5	1.45e6	1.55	1.54	NO	0.9597	29.80	29.61	NO	1.000	1.001	50.9	102	NO
10	2,3,4,7,8-PeCDF	8.94e5	1.30e6	1.55	1.55	NO	1.0071	30.87	30.87	NO	1.001	1.000	50.1	100	NO
11	1,2,3,4,7,8-HxCDF	4.67e5	9.73e5	1.24	1.21	NO	0.9059	33.46	33.46	NO	1.000	1.000	48.7	97.3	NO
12	1,2,3,6,7,8-HxCDF	4.97e5	9.86e5	1.24	1.21	NO	1.0388	33.59	33.59	NO	1.001	1.001	48.8	87.6	NO
13	2,3,4,6,7,8-HxCDF	4.58e5	9.21e5	1.24	1.21	NO	1.0202	34.26	34.25	NO	1.001	1.000	48.5	97.0	NO

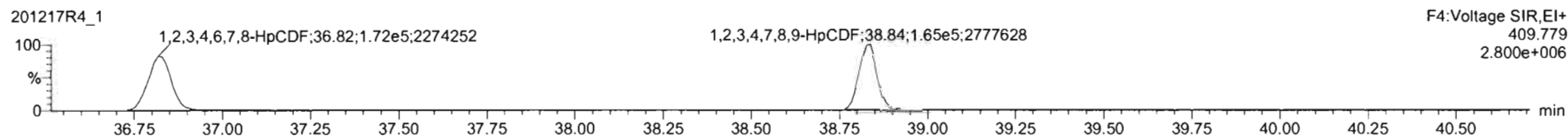
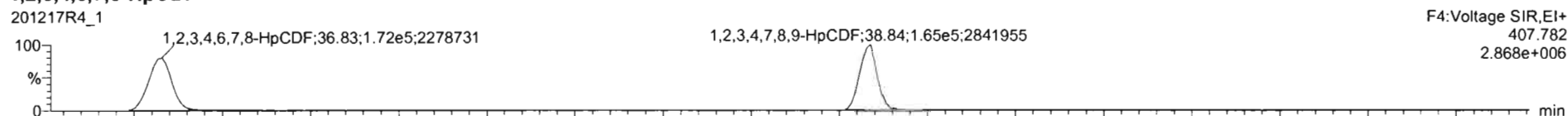


Dataset: U:\VG12.PRO\Results\201217R4\201217R4_1.qld

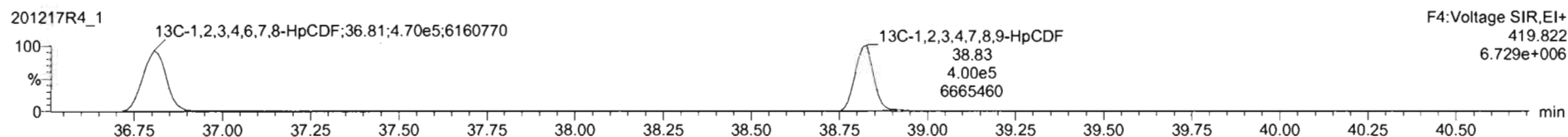
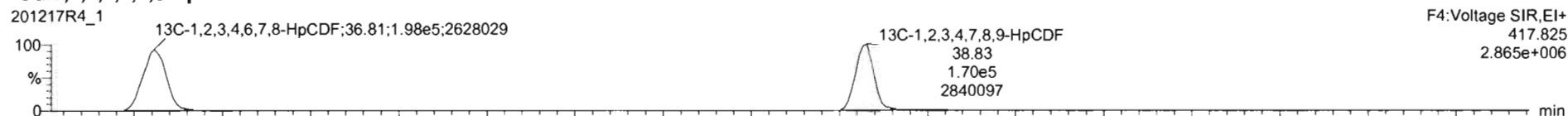
Last Altered: Thursday, December 17, 2020 3:18:46 PM Pacific Standard Time
Printed: Thursday, December 17, 2020 3:19:48 PM Pacific Standard Time

Name: 201217R4_1, Date: 17-Dec-2020, Time: 14:26:46, ID: ST201217R4_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

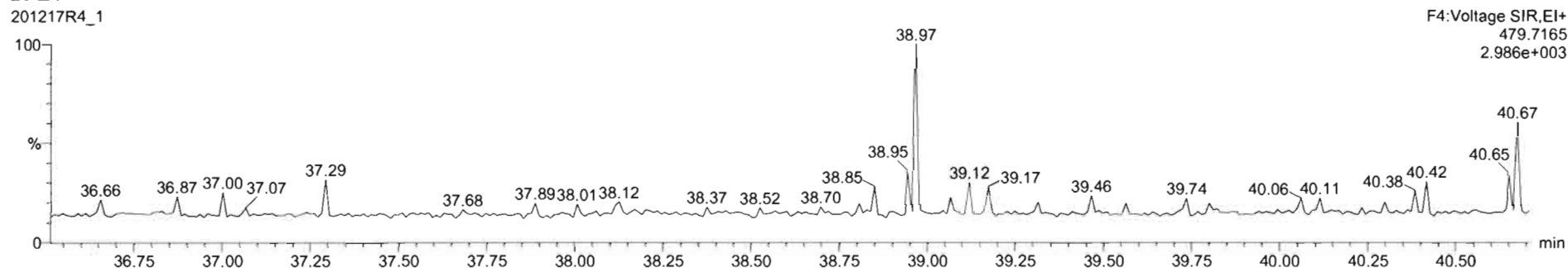
1,2,3,4,6,7,8-HpCDF



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



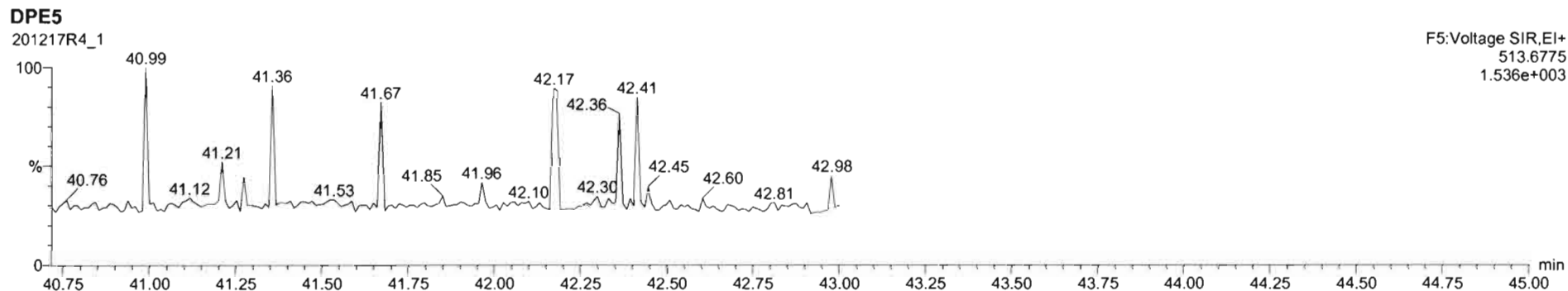
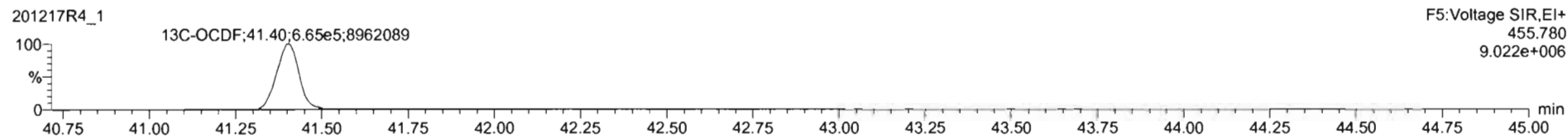
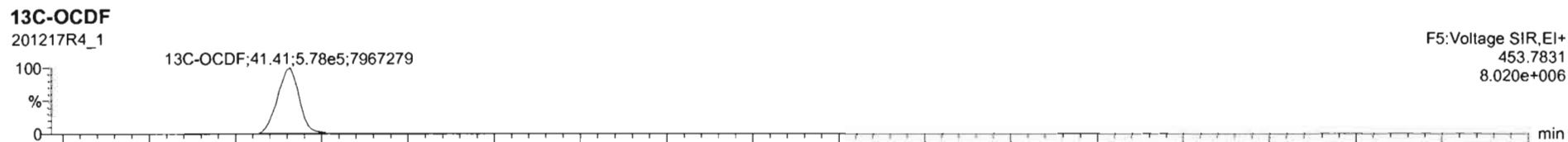
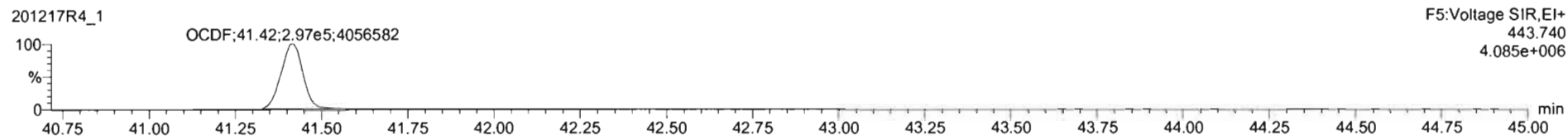
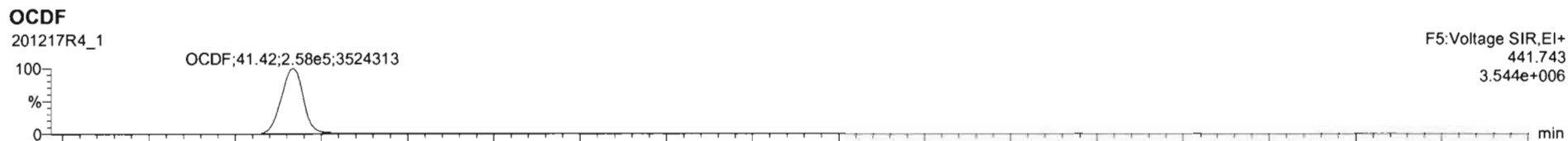
DPE4



Dataset: U:\VG12.PRO\Results\201217R4\201217R4_1.qld

Last Altered: Thursday, December 17, 2020 3:18:46 PM Pacific Standard Time
Printed: Thursday, December 17, 2020 3:19:48 PM Pacific Standard Time

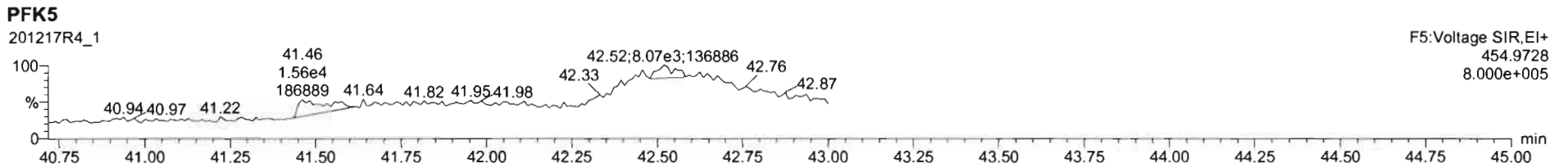
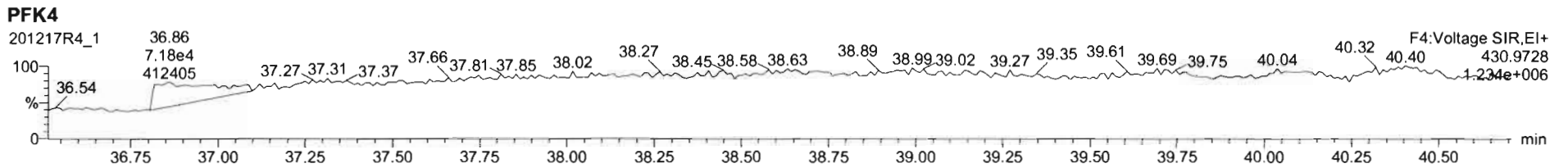
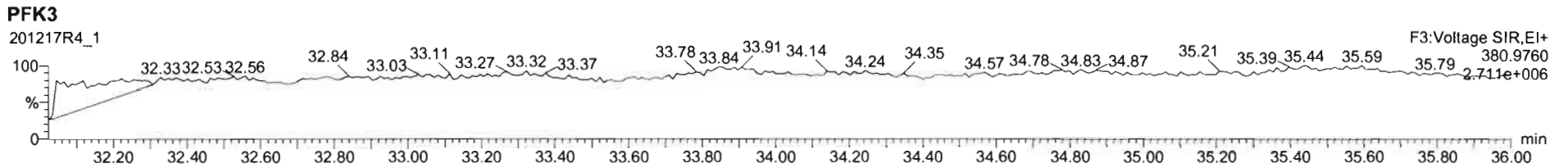
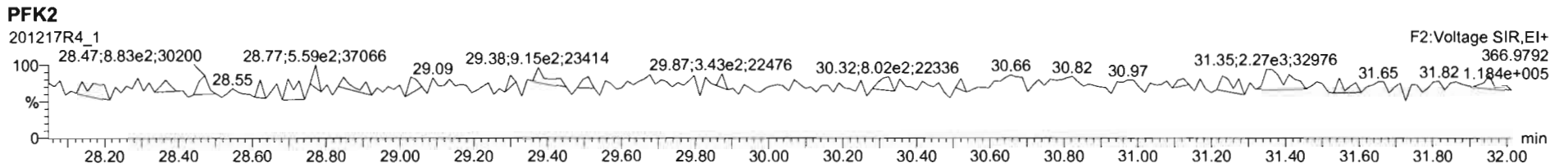
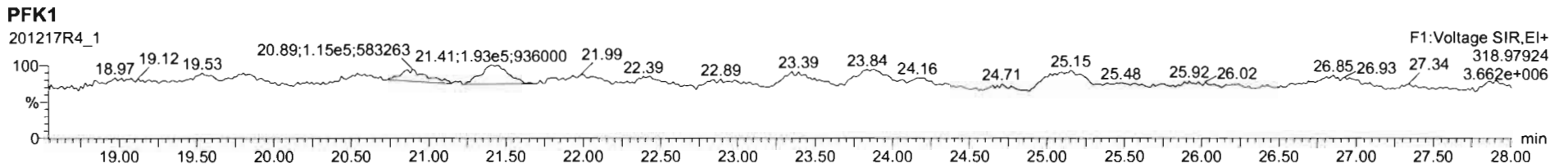
Name: 201217R4_1, Date: 17-Dec-2020, Time: 14:26:46, ID: ST201217R4_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301



Dataset: U:\VG12.PRO\Results\201217R4\201217R4_1.qld

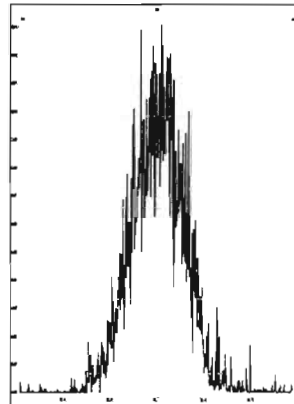
Last Altered: Thursday, December 17, 2020 3:18:46 PM Pacific Standard Time
Printed: Thursday, December 17, 2020 3:19:48 PM Pacific Standard Time

Name: 201217R4_1, Date: 17-Dec-2020, Time: 14:26:46, ID: ST201217R4_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

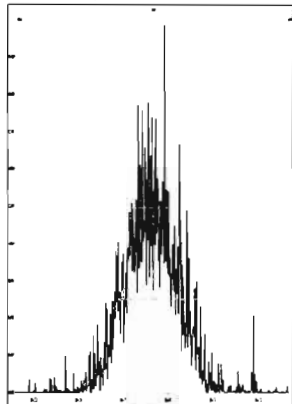


Printed: Friday, December 18, 2020 07:04:34 Pacific Standard Time

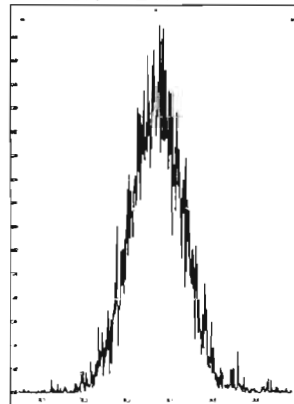
M 292.9824 R 13061



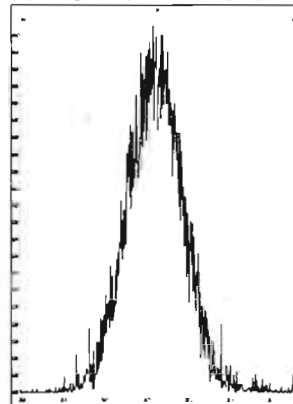
M 304.9824 R 14116



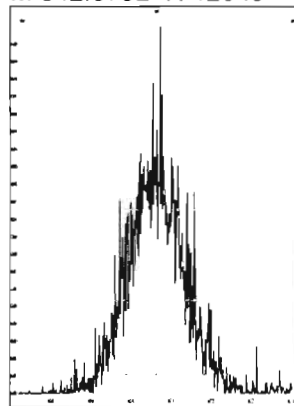
M 318.9792 R 11749



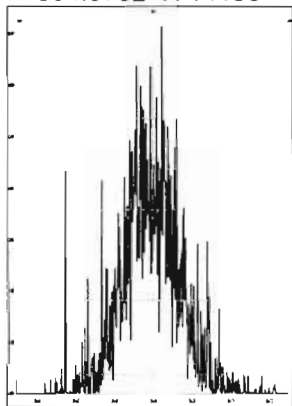
M 330.9792 R 12079



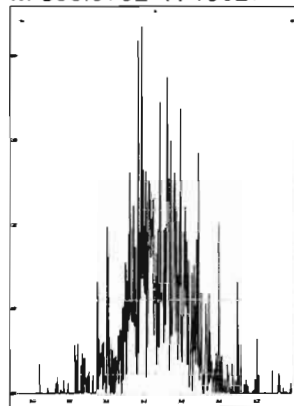
M 342.9792 R 12049



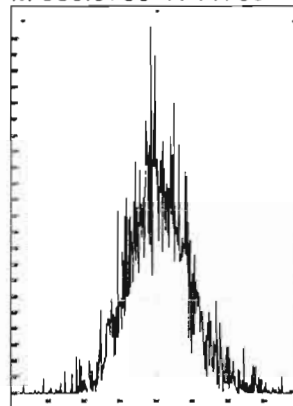
M 354.9792 R 14135



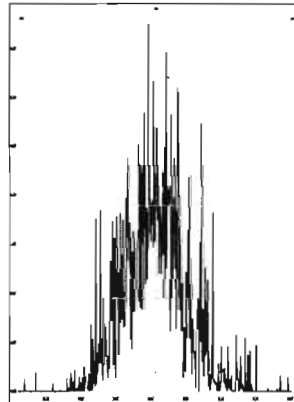
M 366.9792 R 19027



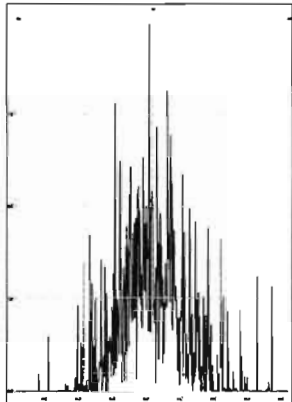
M 380.9760 R 11769



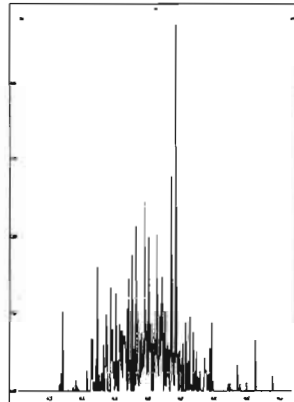
M 392.9760 R 13316



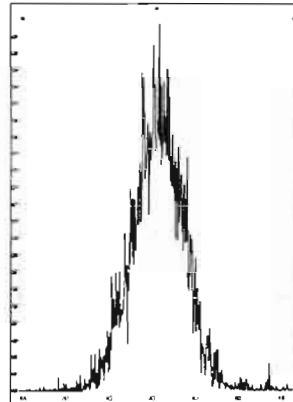
M 404.9760 R 30106



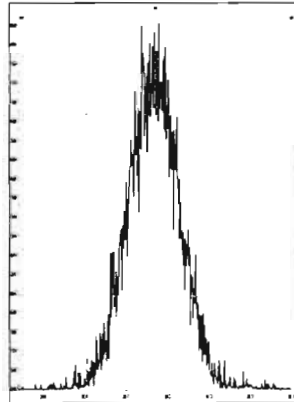
M 416.9760 R 453430



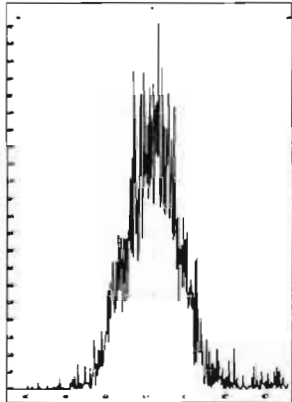
M 318.9792 R 13240



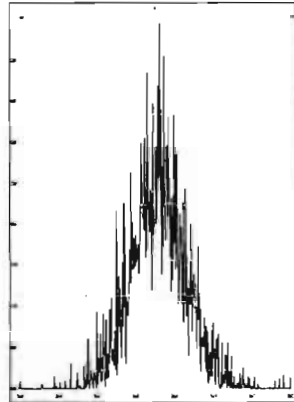
M 330.9792 R 11995



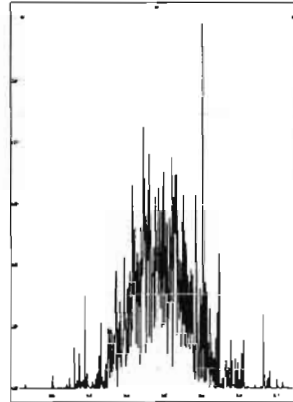
M 342.9792 R 12919



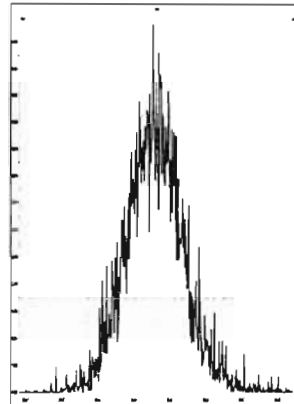
M 354.9792 R 13233



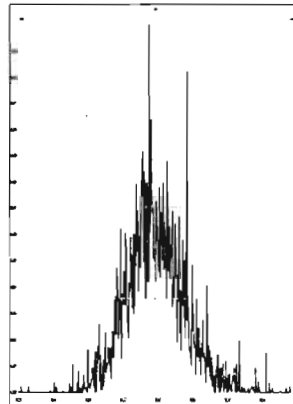
M 366.9792 R 15497



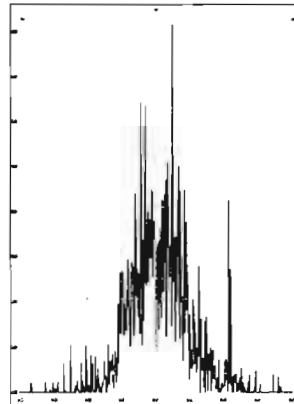
M 380.9760 R 12048



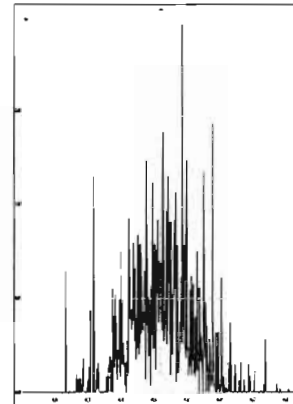
M 392.9760 R 12821



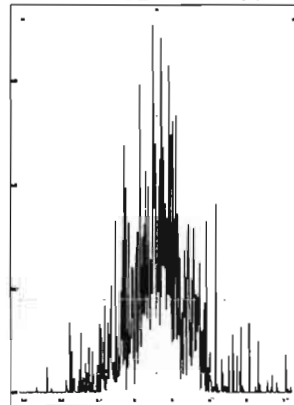
M 404.9760 R 15872



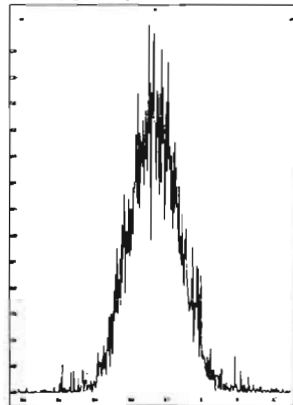
M 416.9760 R 39350



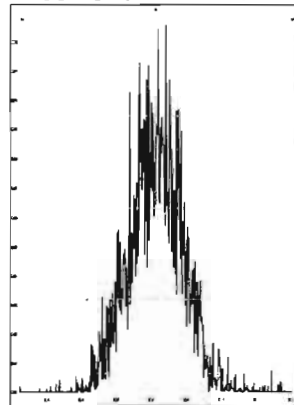
M 366.9792 R 18465



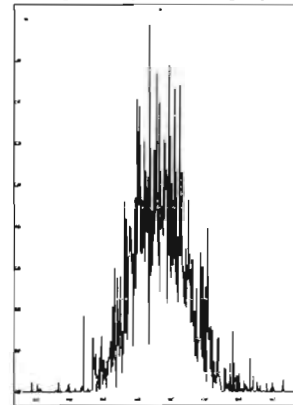
M 380.9760 R 12286



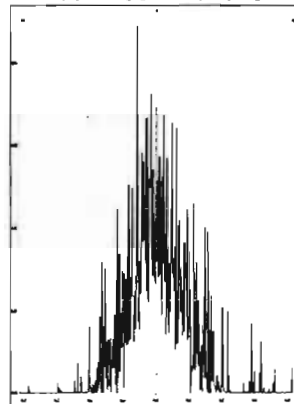
M 392.9760 R 12832



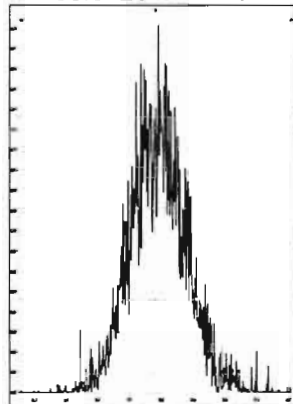
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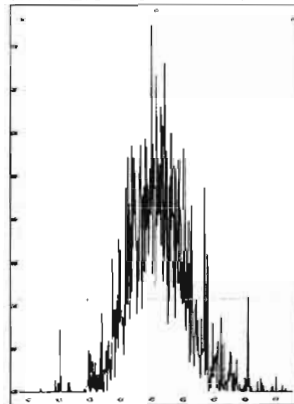
M 416.9760 R 17640



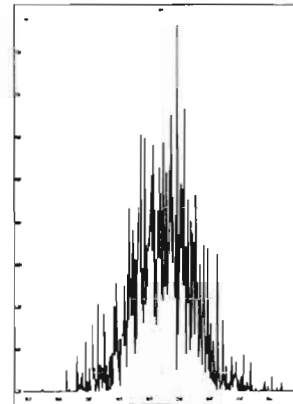
M 430.9728 R 11769



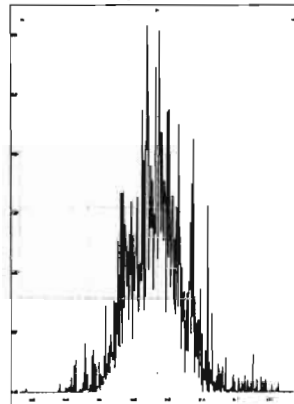
M 442.9728 R 13852



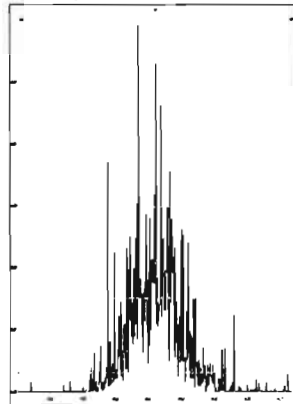
M 454.9728 R 14978



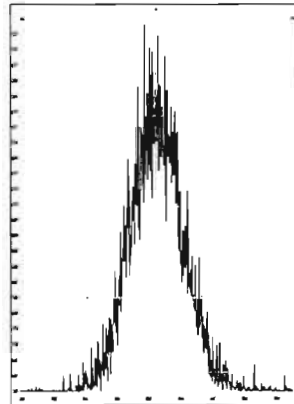
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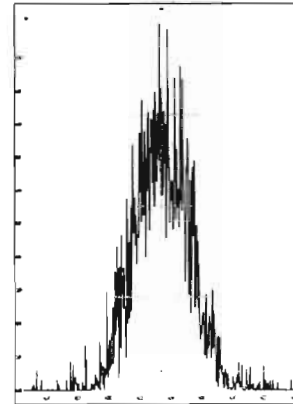
M 416.9760 R 15975



M 430.9728 R 13163

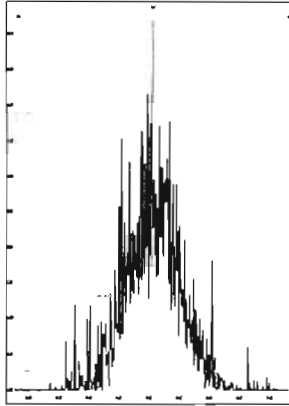


M 442.9728 R 14327

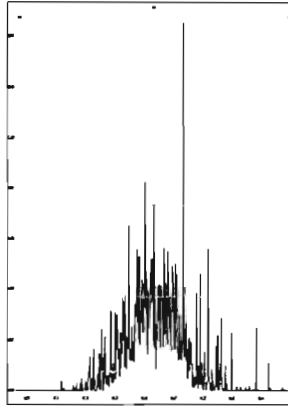


Printed: Friday, December 18, 2020 07:04:34 Pacific Standard Time

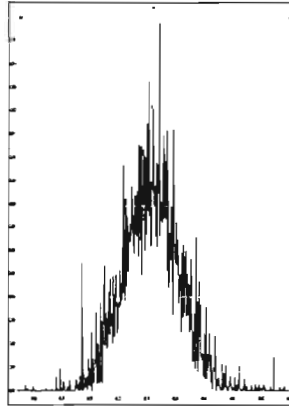
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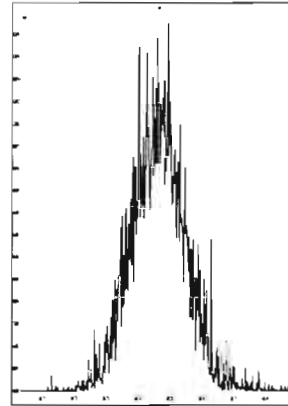
M 466.9728 R 15799



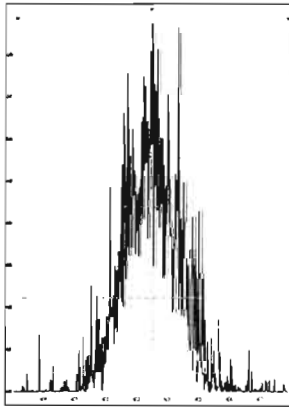
M 480.9696 R 12230



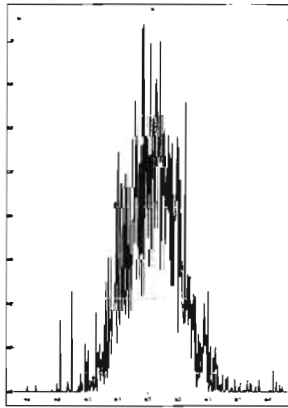
M 430.9728 R 13074



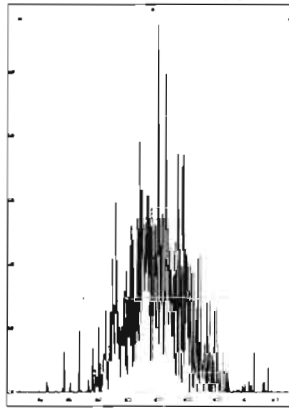
M 442.9728 R 14102



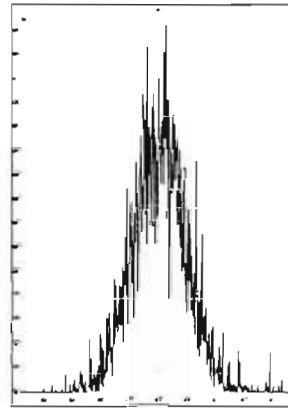
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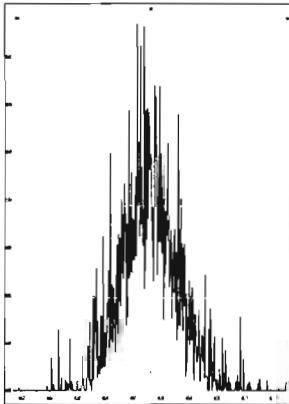
M 466.9728 R 16562



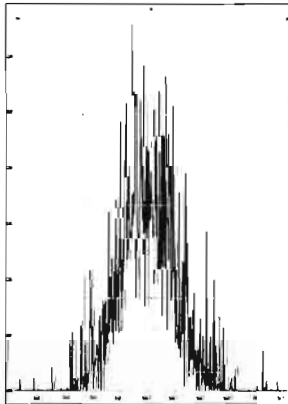
M 480.9696 R 13393



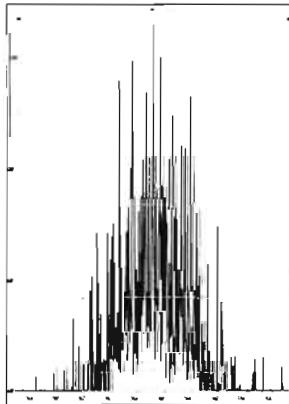
M 492.9696 R 13066



M 504.9696 R 15071



M 516.9697 R 20905



..... CALIBRATION STANDARDS REVIEW CHECKLIST

Begin Calibration ID: ST201218RI-1

Reviewed By: GRB 12/21/2020
Initials & Date

End Calibration ID: NA

	<u>Begin</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"/> 1
Correct ICAL referenced?	<u>HN</u>	<u>1</u>
Run Log:		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/> V
- Samples within 12 hour clock?	(Y)	N
- Bottle position verified?	<u>HN</u>	

	<u>Begin</u>	<u>End</u>
Mass resolution \geq	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K		
1614 1699 429 1613/1668/8280		
Integrated peaks display correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
GC Break <20%		<input type="checkbox"/> NA
<u>8280 CS1 End Standard:</u>		
- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		<input type="checkbox"/> NA

Comments:

Dataset: U:\VG12.PRO\Results\201218R1\201218R1_1.qld

Last Altered: Friday, December 18, 2020 10:15:02 AM Pacific Standard Time

Printed: Friday, December 18, 2020 10:38:24 AM Pacific Standard Time

HN 12/18/2020

GFB 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: 201218R1_1, Date: 18-Dec-2020, Time: 09:17:52, ID: ST201218R1_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	1.41e5	1.45e6	0.78	NO	0.980	26.37	26.35	NO	1.001	1.001	9.9241	99.2	NO
2	2 1,2,3,7,8-PeCDD	5.13e5	1.08e6	0.60	NO	0.932	31.05	31.03	NO	1.001	1.000	50.777	102	NO
3	3 1,2,3,4,7,8-HxCDD	4.40e5	8.32e5	1.23	NO	1.02	34.35	34.35	NO	1.001	1.001	51.803	104	NO
4	4 1,2,3,6,7,8-HxCDD	4.38e5	9.77e5	1.22	NO	0.902	34.47	34.46	NO	1.001	1.000	49.684	99.4	NO
5	5 1,2,3,7,8,9-HxCDD	4.34e5	9.42e5	1.21	NO	0.954	34.72	34.73	NO	1.000	1.001	48.326	96.7	NO
6	6 1,2,3,4,6,7,8-HpCDD	3.23e5	7.50e5	1.00	NO	0.918	38.20	38.20	NO	1.000	1.000	46.907	93.8	NO
7	7 OCDD	5.51e5	1.26e6	0.86	NO	0.866	41.10	41.12	NO	1.000	1.000	101.07	101	NO
8	8 2,3,7,8-TCDF	1.45e5	1.91e6	0.74	NO	0.848	25.64	25.67	NO	1.000	1.001	8.9668	89.7	NO
9	9 1,2,3,7,8-PeCDF	7.01e5	1.53e6	1.52	NO	0.960	29.77	29.78	NO	1.000	1.000	47.766	95.5	NO
10	10 2,3,4,7,8-PeCDF	7.50e5	1.44e6	1.52	NO	1.07	30.84	30.84	NO	1.001	1.000	48.858	97.7	NO
11	11 1,2,3,4,7,8-HxCDF	4.69e5	1.01e6	1.21	NO	0.986	33.42	33.44	NO	1.000	1.001	47.067	94.1	NO
12	12 1,2,3,6,7,8-HxCDF	4.94e5	1.01e6	1.20	NO	1.04	33.57	33.57	NO	1.001	1.001	46.888	93.8	NO
13	13 2,3,4,6,7,8-HxCDF	4.58e5	9.44e5	1.19	NO	1.02	34.24	34.23	NO	1.001	1.000	47.548	95.1	NO
14	14 1,2,3,7,8,9-HxCDF	4.13e5	8.78e5	1.22	NO	0.991	35.23	35.23	NO	1.000	1.000	47.511	95.0	NO
15	15 1,2,3,4,6,7,8-HpCDF	3.42e5	6.85e5	1.00	NO	1.05	36.80	36.80	NO	1.000	1.000	47.594	95.2	NO
16	16 1,2,3,4,7,8,9-HpCDF	3.24e5	5.71e5	1.01	NO	1.18	38.82	38.82	NO	1.000	1.000	48.287	96.6	NO
17	17 OCDF	5.32e5	1.25e6	0.85	NO	0.896	41.40	41.40	NO	1.000	1.000	94.726	94.7	NO
18	18 13C-2,3,7,8-TCDD	1.45e6	1.36e6	0.78	NO	1.06	26.34	26.33	NO	1.030	1.030	100.88	101	NO
19	19 13C-1,2,3,7,8-PeCDD	1.08e6	1.36e6	0.61	NO	0.785	31.17	31.02	NO	1.219	1.213	101.48	101	NO
20	20 13C-1,2,3,4,7,8-HxCDD	8.32e5	1.15e6	1.28	NO	0.621	34.33	34.33	NO	1.014	1.014	116.93	117	NO
21	21 13C-1,2,3,6,7,8-HxCDD	9.77e5	1.15e6	1.25	NO	0.734	34.45	34.45	NO	1.017	1.017	116.09	116	NO
22	22 13C-1,2,3,7,8,9-HxCDD	9.42e5	1.15e6	1.25	NO	0.723	34.73	34.71	NO	1.026	1.025	113.68	114	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	7.50e5	1.15e6	1.03	NO	0.568	38.23	38.19	NO	1.129	1.128	115.26	115	NO
24	24 13C-OCDD	1.26e6	1.15e6	0.89	NO	0.496	41.17	41.09	NO	1.216	1.214	221.60	111	NO
25	25 13C-2,3,7,8-TCDF	1.91e6	1.97e6	0.77	NO	0.919	25.64	25.64	NO	1.003	1.003	105.37	105	NO
26	26 13C-1,2,3,7,8-PeCDF	1.53e6	1.97e6	1.57	NO	0.715	29.89	29.77	NO	1.169	1.164	108.65	109	NO
27	27 13C-2,3,4,7,8-PeCDF	1.44e6	1.97e6	1.57	NO	0.689	30.97	30.82	NO	1.212	1.206	106.01	106	NO
28	28 13C-1,2,3,4,7,8-HxCDF	1.01e6	1.15e6	0.50	NO	0.873	33.43	33.42	NO	0.987	0.987	101.04	101	NO
29	29 13C-1,2,3,6,7,8-HxCDF	1.01e6	1.15e6	0.50	NO	0.933	33.56	33.55	NO	0.991	0.991	94.729	94.7	NO
30	30 13C-2,3,4,6,7,8-HxCDF	9.44e5	1.15e6	0.50	NO	0.843	34.23	34.22	NO	1.011	1.010	97.699	97.7	NO
31	31 13C-1,2,3,7,8,9-HxCDF	8.78e5	1.15e6	0.51	NO	0.780	35.23	35.22	NO	1.040	1.040	98.173	98.2	NO

Dataset: U:\VG12.PRO\Results\201218R1\201218R1_1.qld

Last Altered: Friday, December 18, 2020 10:15:02 AM Pacific Standard Time
Printed: Friday, December 18, 2020 10:38:24 AM Pacific Standard Time

Name: 201218R1_1, Date: 18-Dec-2020, Time: 09:17:52, ID: ST201218R1_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	6.85e5	1.15e6	0.43	NO	0.726	36.80	36.78	NO	1.087	1.086	82.216	82.2	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.71e5	1.15e6	0.42	NO	0.491	38.81	38.81	NO	1.146	1.146	101.48	101	NO
34	34 13C-OCDF	1.25e6	1.15e6	0.87	NO	0.565	41.38	41.39	NO	1.222	1.222	193.44	96.7	NO
35	35 37Cl-2,3,7,8-TCDD	1.82e5	1.36e6			1.22	26.33	26.35	NO	1.030	1.031	11.011	110	NO
36	36 13C-1,2,3,4-TCDD	1.36e6	1.36e6	0.78	NO	1.00	25.64	25.57	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.97e6	1.97e6	0.78	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	1.15e6	1.15e6	0.50	NO	1.00	33.92	33.87	NO	1.000	1.000	100.00	100	YES

f

Dataset: Untitled

Last Altered: Sunday, December 20, 2020 08:09:36 Pacific Standard Time
Printed: Sunday, December 20, 2020 08:10:11 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

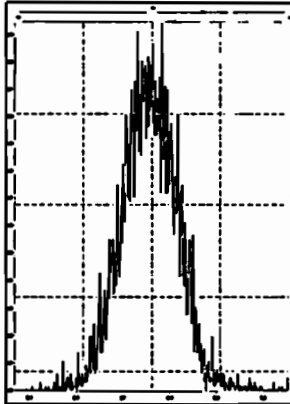
	Name	ID	Acq.Date	Acq.Time
1	201218R1_1	ST201218R1_1 1613 CS3 20L0301	18-Dec-20	09:17:52
2	(A) 201218R1_2			
3	201218R1_3	B0L0082-BLK1 Method Blank 10	18-Dec-20	10:57:18
4	201218R1_4	2002582-04 NCPDI-071SG-201118 9.4	18-Dec-20	12:28:49
5	201218R1_5	2002582-03 NCPDI-055SG-201119 12.2	18-Dec-20	13:14:30
6	201218R1_6	2002582-02 NCPDI-050SG-201118 7.06	18-Dec-20	14:00:42
7	201218R1_7	2002582-01 NCPDI-048SG-201118 7.06	18-Dec-20	14:46:07
8	201218R1_8	2002529-01 WIF LS Inlet Sump-20201112 1	18-Dec-20	15:32:17
9	201218R1_9	2002529-02 B 108-20201112 1	18-Dec-20	16:16:35
10	201218R1_10	2002529-03 B 108-20201112-FD 1	18-Dec-20	17:00:53
11	201218R1_11	2002529-04 WWTPInfluent 868 Bld 1	18-Dec-20	17:45:12
12	201218R1_12	2002492-09RE1 USMPDI-006SC-A-04-05-201...	18-Dec-20	18:29:30
13	201218R1_13	2002532-01 USMPDI-001SC-A-01-02-201111 ...	18-Dec-20	19:13:47

(A) GC solvent blank, instrument paused, allowed GC cycle to finish. HW 12/21/2020

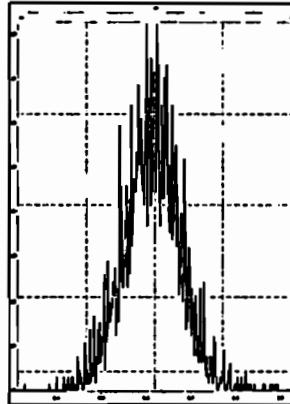
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Friday, December 18, 2020 09:12:25 Pacific Standard Time

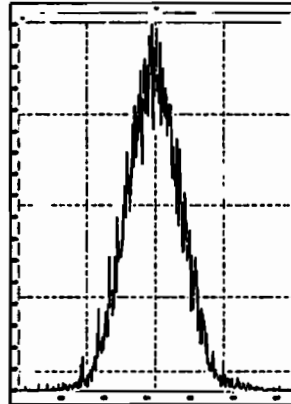
M 292.9824 R 11735



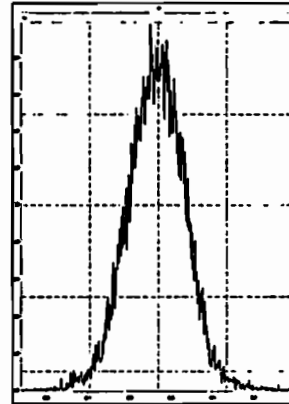
M 304.9824 R 11738



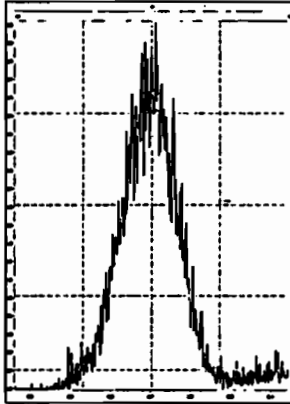
M 318.9792 R 10916



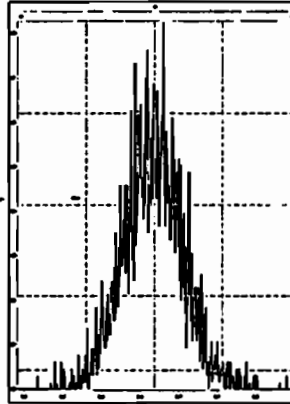
M 330.9792 R 10635



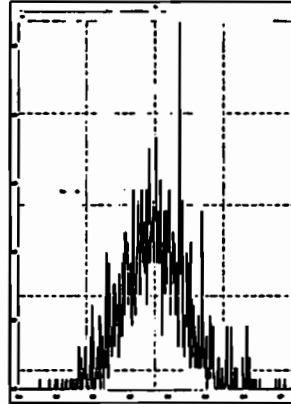
M 342.9792 R 10203



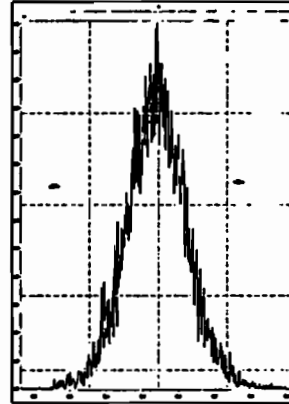
M 354.9792 R 11571



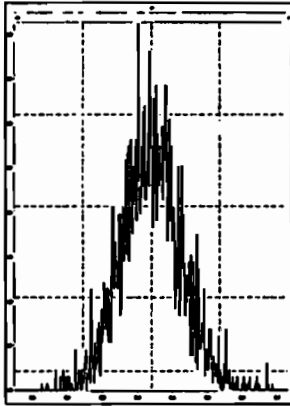
M 366.9792 R 12563



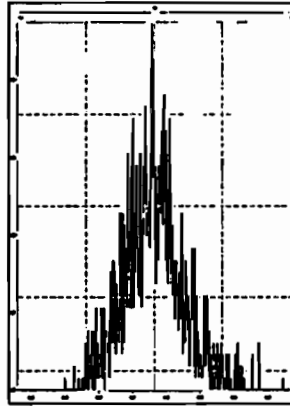
M 380.9760 R 10333



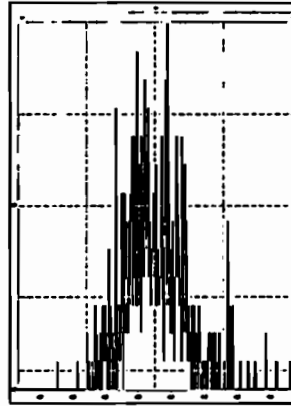
M 392.9760 R 11574



M 404.9760 R 13019



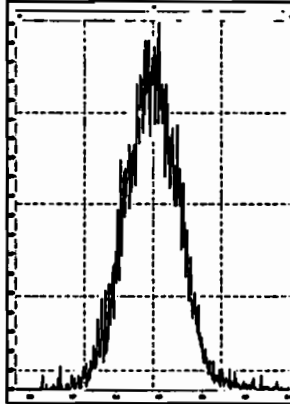
M 416.9760 R 16668



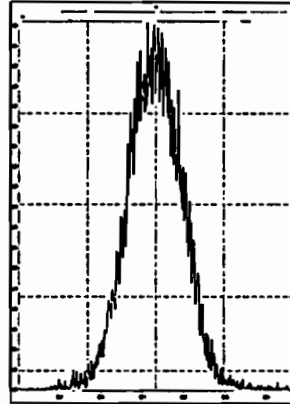
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Friday, December 18, 2020 09:13:39 Pacific Standard Time

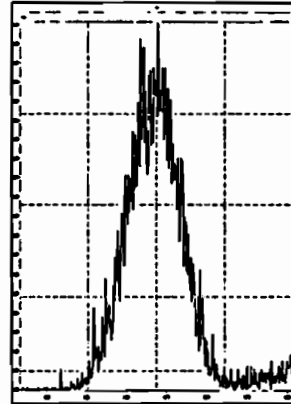
M 318.9792 R 11362



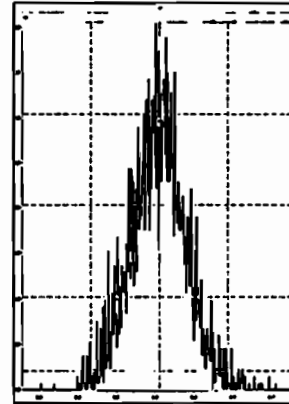
M 330.9792 R 11365



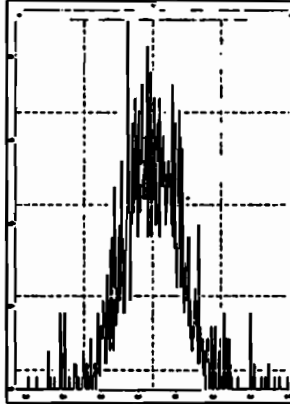
M 342.9792 R 11210



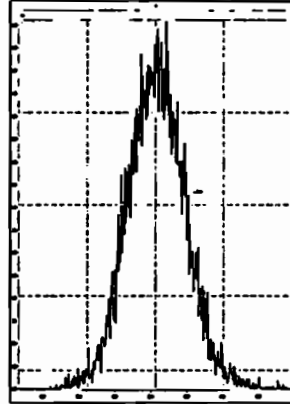
M 354.9792 R 12752



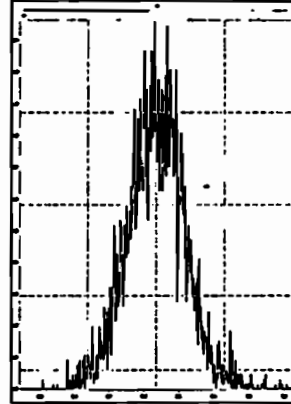
M 366.9792 R 12254



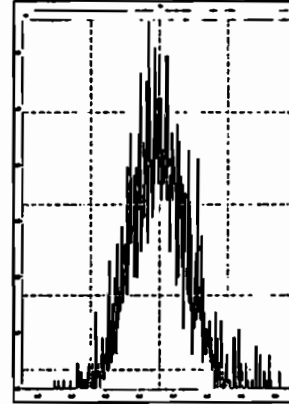
M 380.9760 R 11959



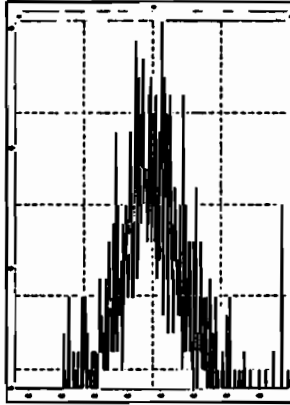
M 392.9760 R 11900



M 404.9760 R 12440



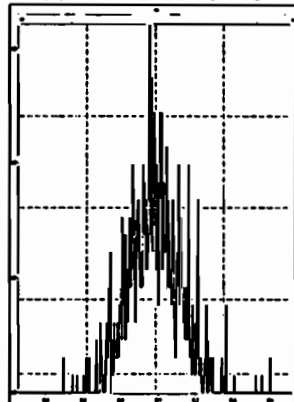
M 416.9760 R 12500



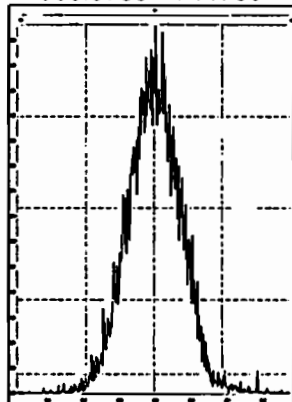
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Friday, December 18, 2020 09:15:16 Pacific Standard Time

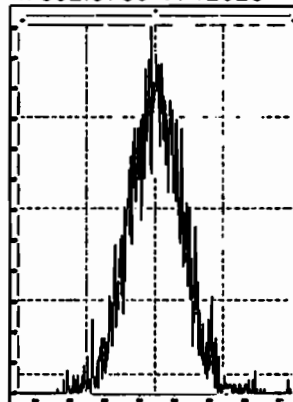
M 366.9792 R 15146



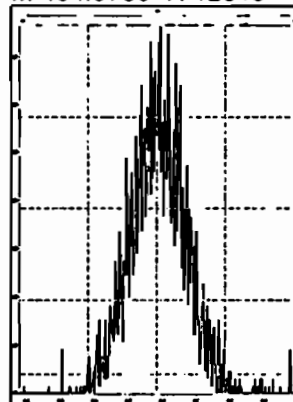
M 380.9760 R 11736



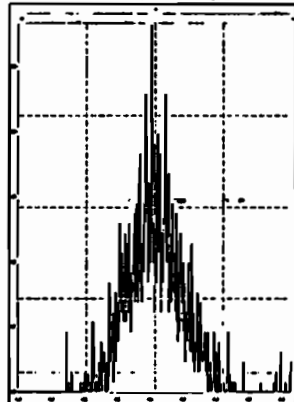
M 392.9760 R 12623



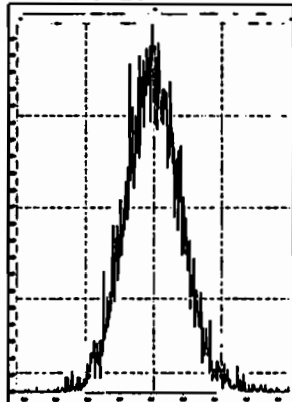
M 404.9760 R 12315



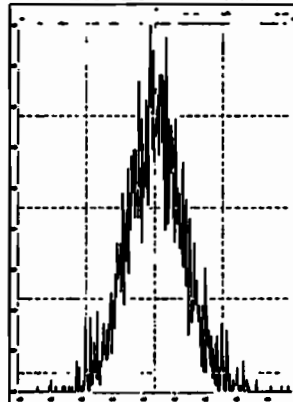
M 416.9760 R 13511



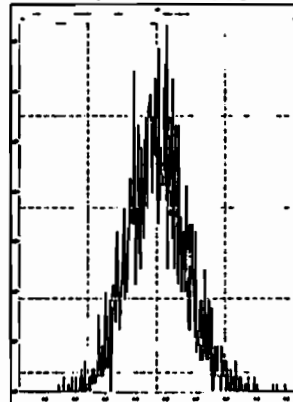
M 430.9728 R 12255



M 442.9728 R 11960



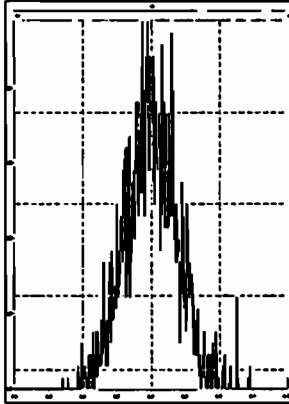
M 454.9728 R 13587



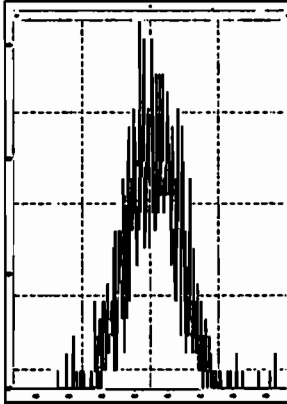
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Friday, December 18, 2020 09:15:59 Pacific Standard Time

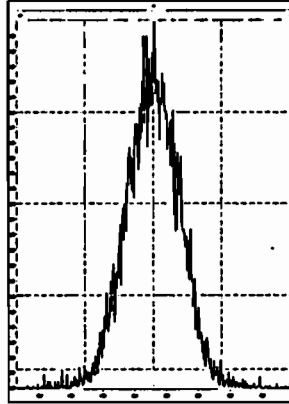
M 404.9760 R 13021



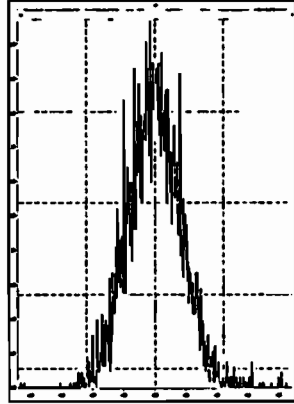
M 416.9760 R 13156



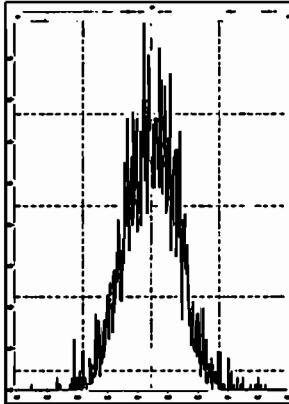
M 430.9728 R 11793



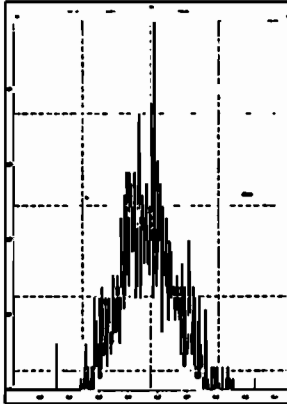
M 442.9728 R 12198



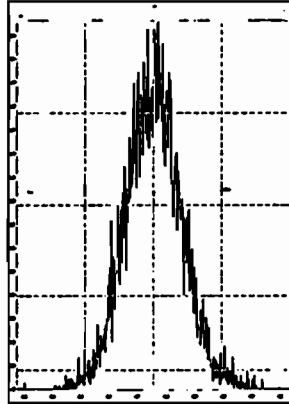
M 454.9728 R 12078



M 466.9728 R 12625



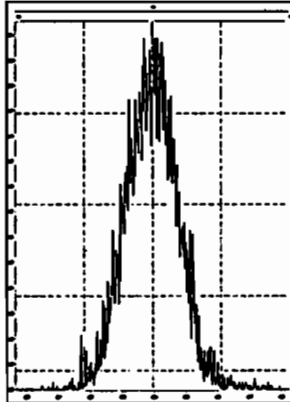
M 480.9696 R 11572



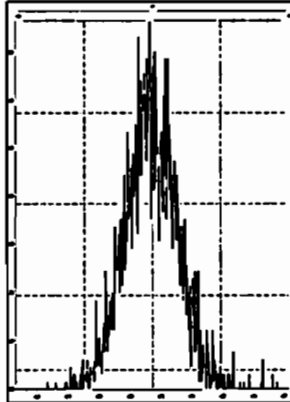
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Friday, December 18, 2020 09:16:28 Pacific Standard Time

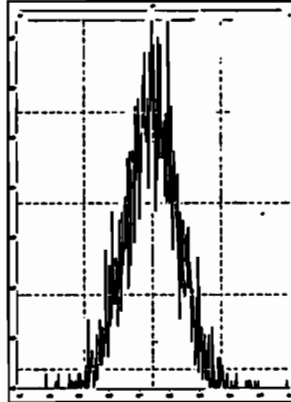
M 430.9728 R 12499



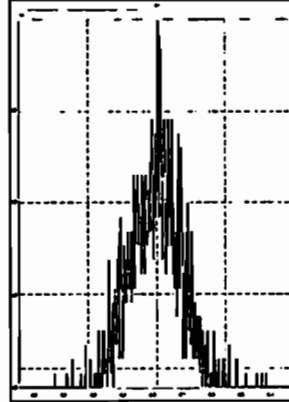
M 442.9728 R 13091



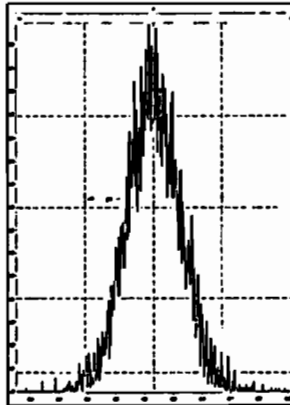
M 454.9728 R 13157



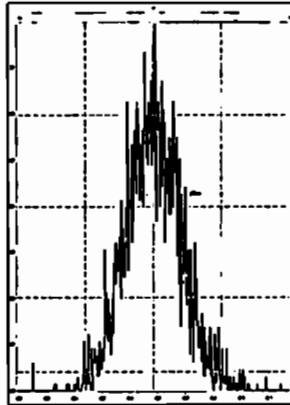
M 466.9728 R 15525



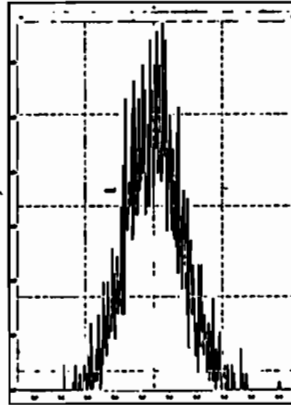
M 480.9696 R 12627



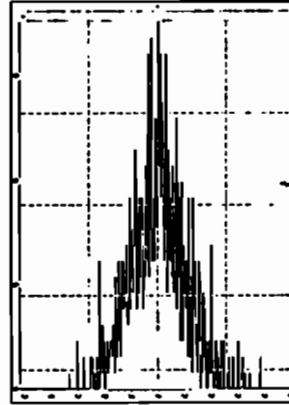
M 492.9696 R 11467



M 504.9696 R 12821



M 516.9697 R 12689



Dataset: U:\VG12.PRO\Results\201218R1\201218R1_CPSM.qld

Last Altered: Friday, December 18, 2020 10:40:43 AM Pacific Standard Time

Printed: Friday, December 18, 2020 10:41:32 AM 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: 201218R1_1, Date: 18-Dec-2020, Time: 09:17:52, ID: ST201218R1_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

#	Name	RT
1	1,3,6,8-TCDD (First)	22.53
2	1,2,8,9-TCDD (Last)	27.24
3	1,2,4,7,9-PeCDD (First)	28.79
4	1,2,3,8,9-PeCDD (Last)	31.39
5	1,2,4,6,7,9-HxCDD (First)	32.70
6	1,2,3,7,8,9-HxCDD (Last)	34.73
7	1,2,3,4,6,7,9-HpCDD (First)	37.18
8	1,2,3,4,6,7,8-HpCDD (Last)	38.20
9	1,3,6,8-TCDF (First)	20.29
10	1,2,8,9-TCDF (Last)	27.55
11	1,3,4,6,8-PeCDF (First)	27.12
12	1,2,3,8,9-PeCDF (Last)	31.74
13	1,2,3,4,6,8-HxCDF (First)	32.17
14	1,2,3,7,8,9-HxCDF (Last)	35.23
15	1,2,3,4,6,7,8-HpCDF (First)	36.80
16	1,2,3,4,7,8,9-HpCDF (Last)	38.82

Dataset: U:\VG12.PRO\Results\201218R1\201218R1_CPSM.qld

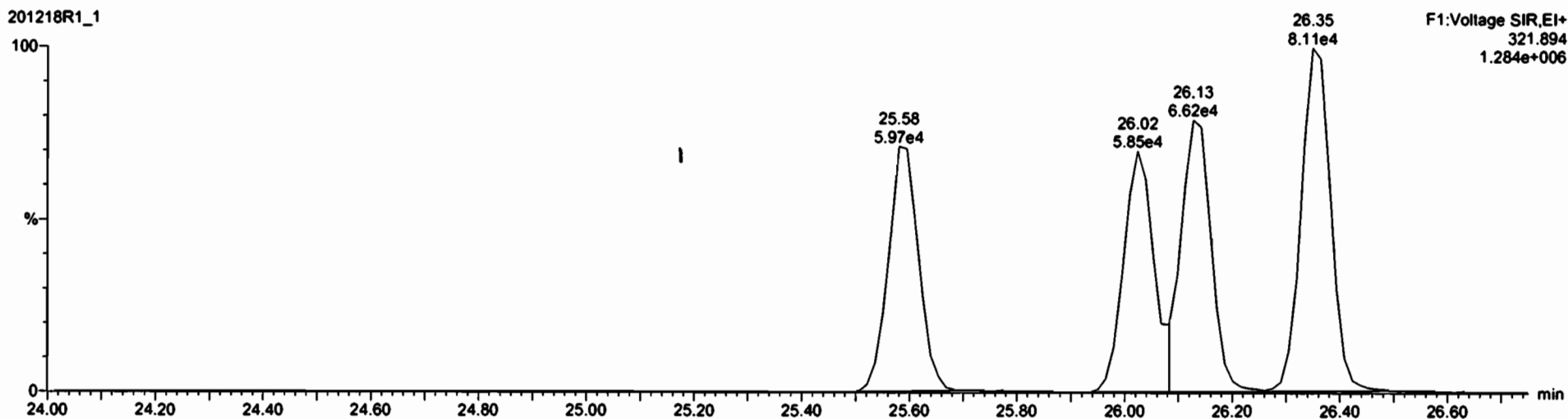
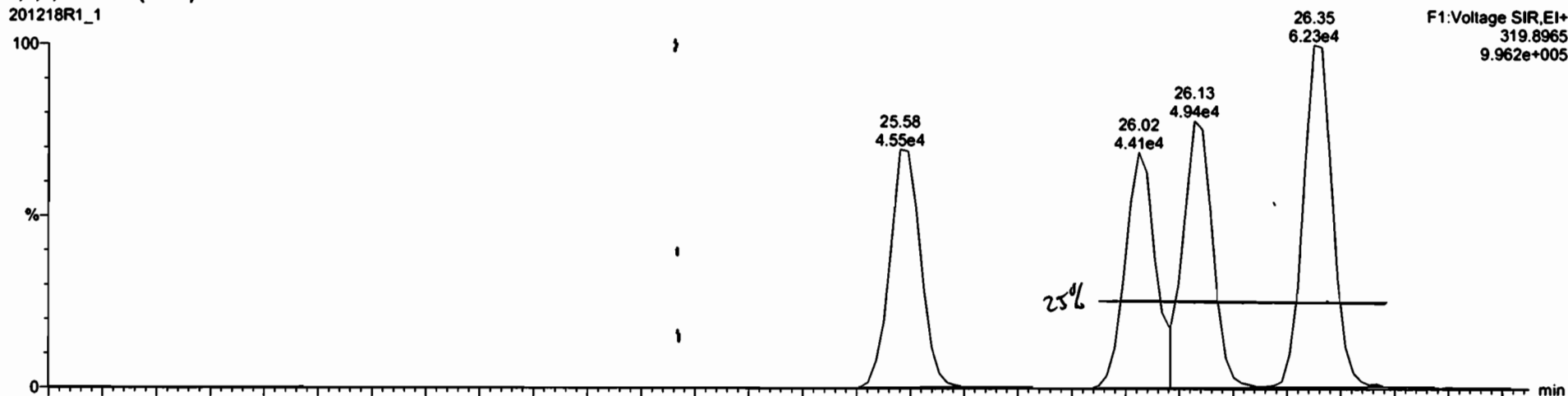
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Printed: Friday, December 18, 2020 10:41:32 AM Pacific Standard Time

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

HW 12/18/2020
GRB 12/21/2020

Name: 201218R1_1, Date: 18-Dec-2020, Time: 09:17:52, ID: ST201218R1_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

1,3,6,8-TCDD (First)
201218R1_1



Dataset: U:\VG12.PRO\Results\201218R1\201218R1_CPSM.qld

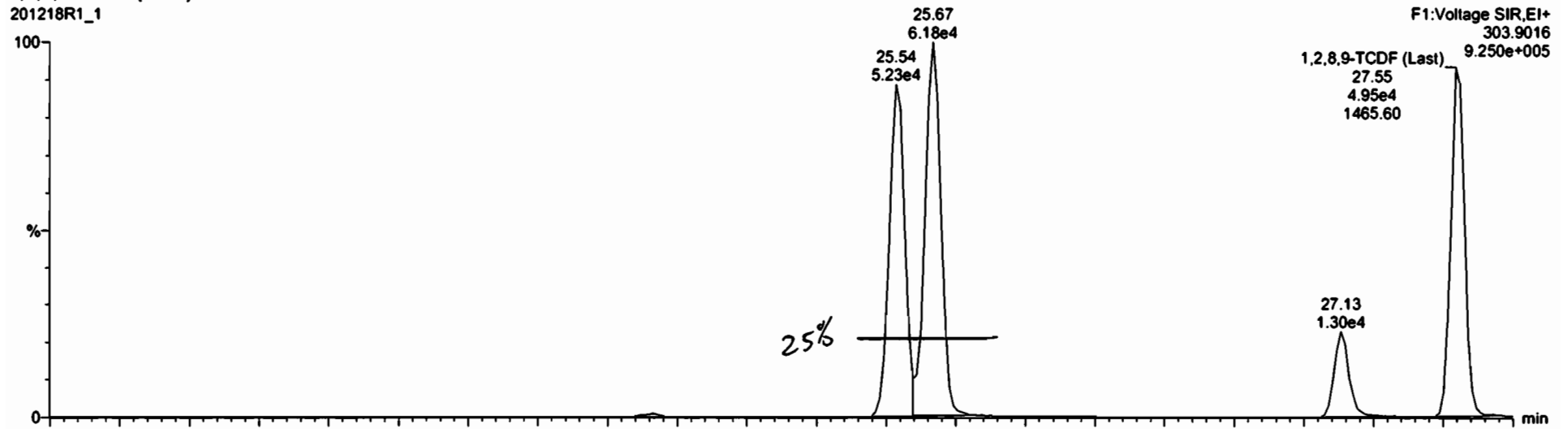
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Printed: Friday, December 18, 2020 10:41:32 AM Pacific Standard Time

HN 12/18/2020
GRB 12/21/2020

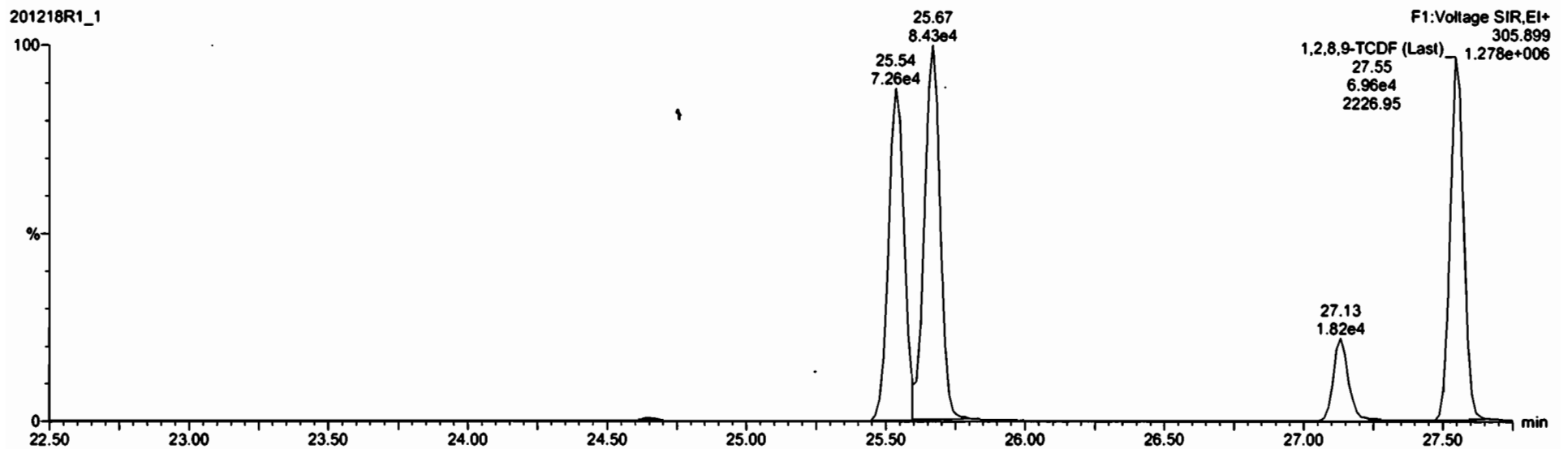
Name: 201218R1_1, Date: 18-Dec-2020, Time: 09:17:52, ID: ST201218R1_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

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

201218R1_1



201218R1_1



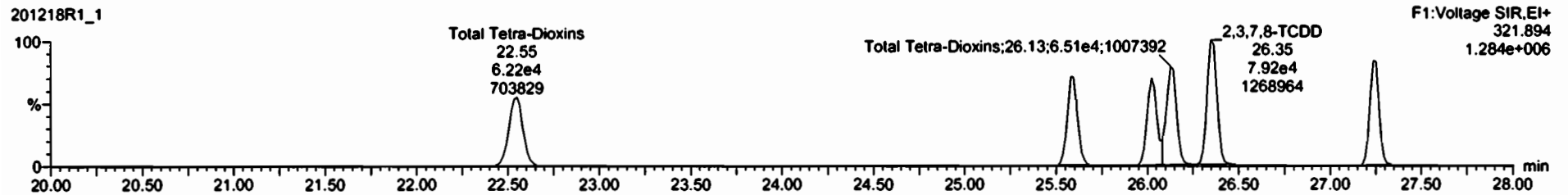
Dataset: Untitled

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Printed: Friday, December 18, 2020 10:21:42 AM Pacific Standard Time

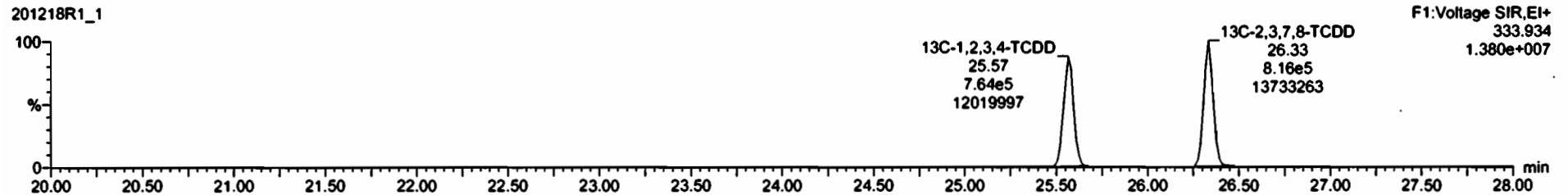
Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201218R1_1, Date: 18-Dec-2020, Time: 09:17:52, ID: ST201218R1_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

2,3,7,8-TCDD



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



Dataset: Untitled

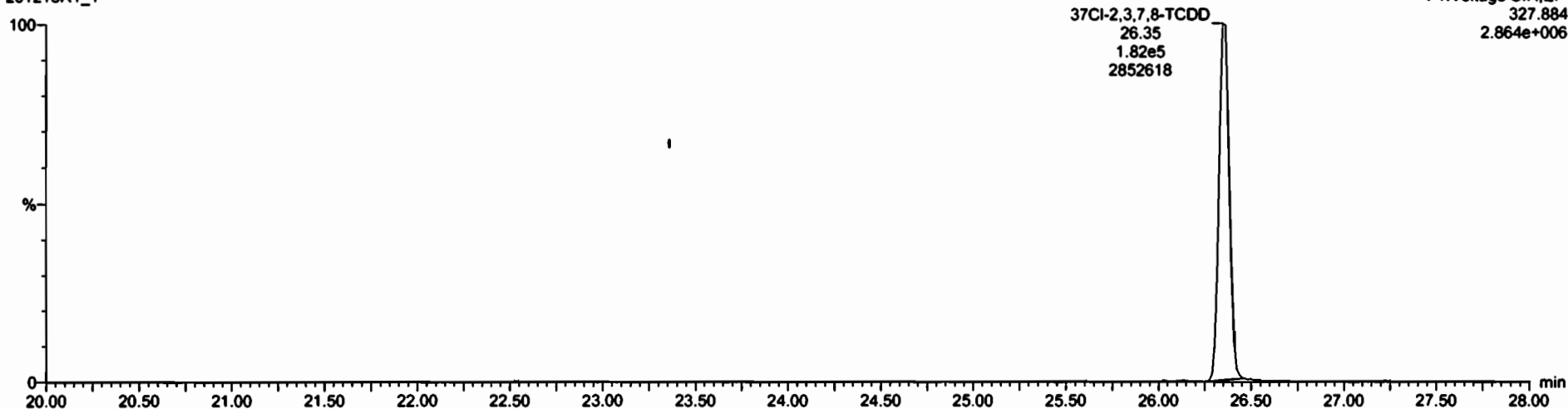
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Printed: Friday, December 18, 2020 10:21:42 AM Pacific Standard Time

Name: 201218R1_1, Date: 18-Dec-2020, Time: 09:17:52, ID: ST201218R1_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

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

201218R1_1

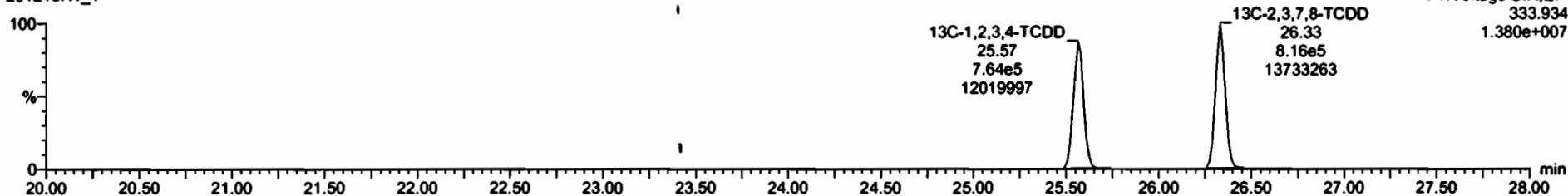


13C-1,2,3,4-TCDD

201218R1_1



201218R1_1



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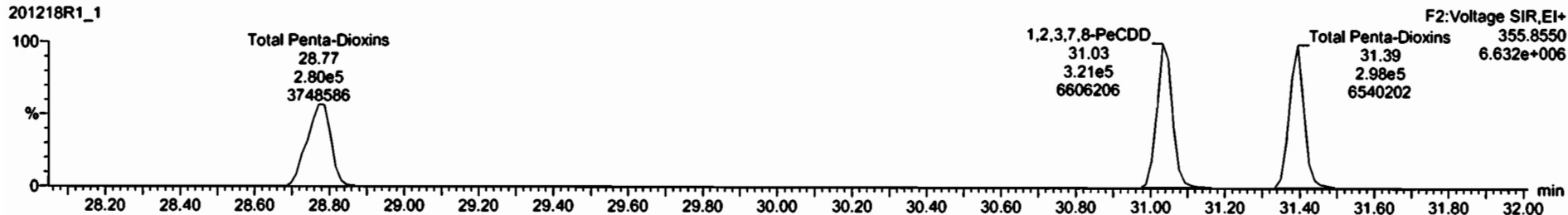
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1,2,3,7,8-PeCDD

201218R1_1



201218R1_1

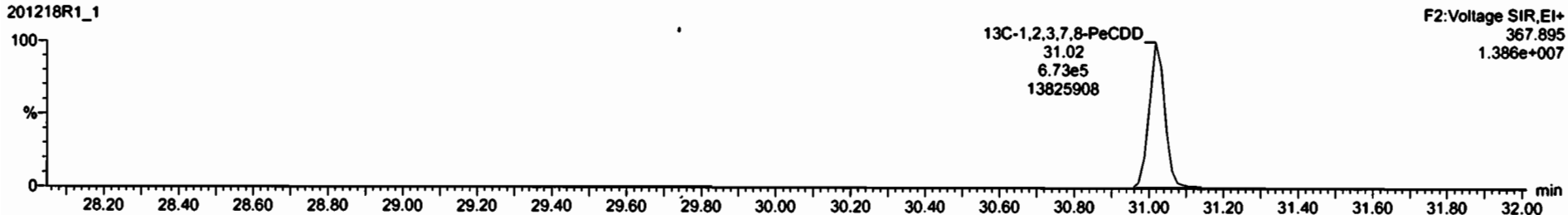


13C-1,2,3,7,8-PeCDD

201218R1_1



201218R1_1



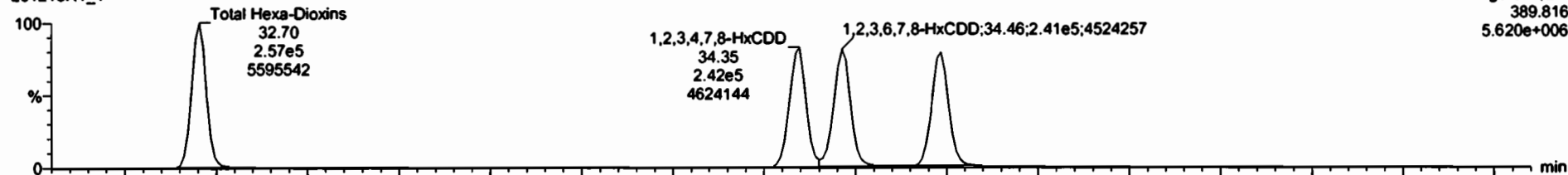
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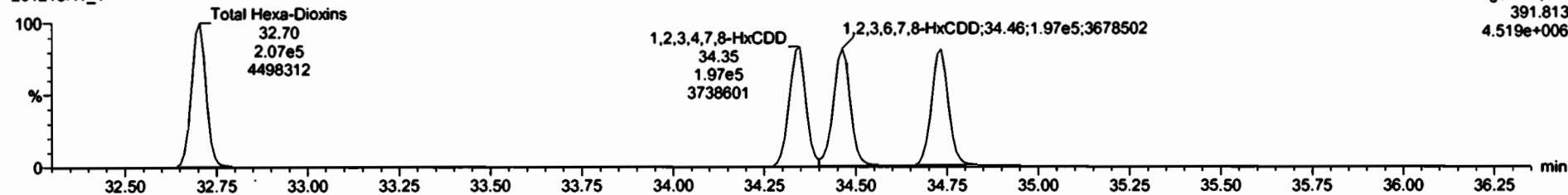
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1,2,3,4,7,8-HxCDD

201218R1_1

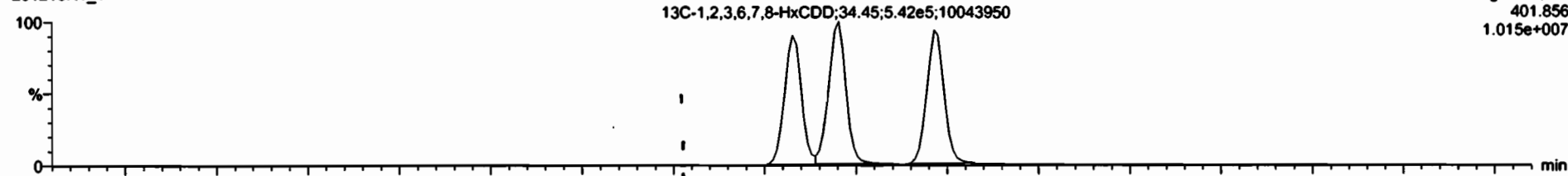


201218R1_1

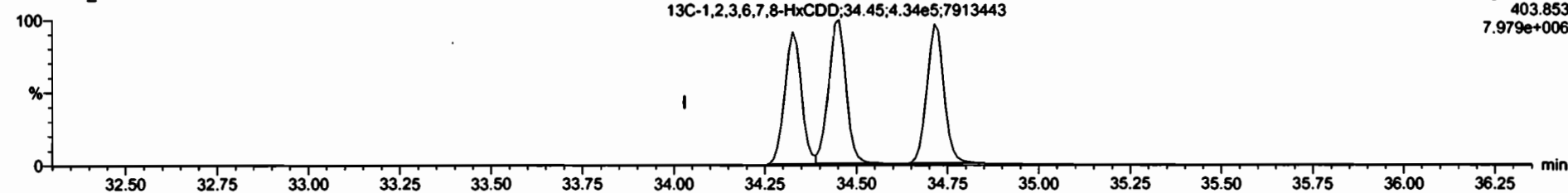


13C-1,2,3,4,7,8-HxCDD

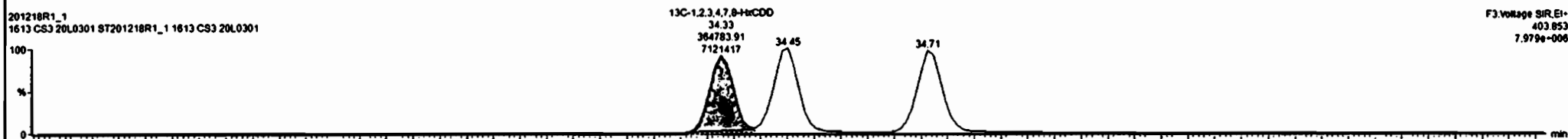
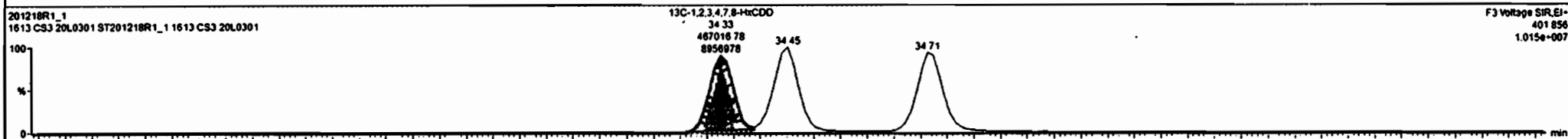
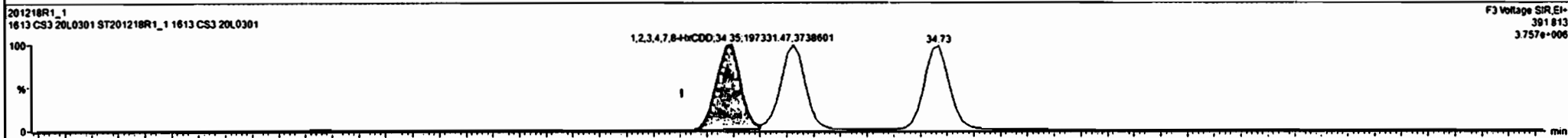
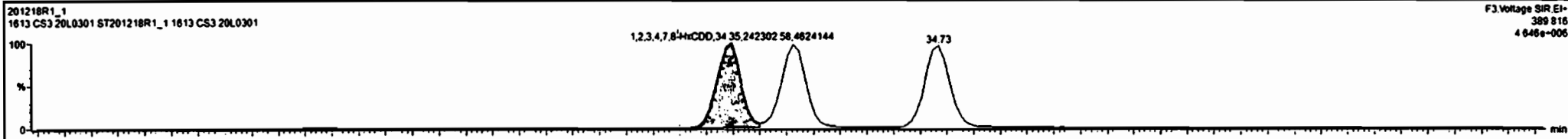
201218R1_1



201218R1_1



#	Name	Resp	S Resp	Pred RA	RA	n/y	RPF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc.	%Rec	STD out
3	1,2,3,4,7,8-HxCDD	4.40e5	8.32e5	1.24	1.23	NO	1.0203	34.35	34.35	NO	1.001	1.001	51.8	104	NO
4	1,2,3,6,7,8-HxCDD	4.30e5	9.77e5	1.24	1.22	NO	0.9025	34.47	34.46	NO	1.001	1.000	49.7	99.4	NO
5	1,2,3,7,8-HxCDD	4.34e5	9.42e5	1.24	1.21	NO	0.9542	34.72	34.73	NO	1.000	1.001	48.3	96.7	NO
6	1,2,3,4,6,7,8-HxCDD	3.23e5	7.50e5	1.04	1.00	NO	0.9180	38.20	38.20	NO	1.000	1.000	46.9	93.8	NO
7	OCDD	5.51e5	1.20e6	0.89	0.86	NO	0.8658	41.10	41.12	NO	1.000	1.001	101	101	NO
8	2,3,7,8-TCDF	1.45e5	1.91e6	0.77	0.74	NO	0.8480	25.04	25.07	NO	1.000	1.001	89.7	89.7	NO
9	1,2,3,7,8-PeCDF	7.91e5	1.53e6	1.55	1.52	NO	0.9597	29.77	29.78	NO	1.000	1.001	47.8	95.5	NO
10	2,3,4,7,8-PeCDF	7.50e5	1.44e6	1.55	1.52	NO	1.0071	30.84	30.84	NO	1.001	1.000	48.9	97.7	NO
11	1,2,3,4,7,8-HxCDF	4.69e5	1.01e6	1.24	1.21	NO	0.9859	33.43	33.44	NO	1.000	1.001	47.1	94.1	NO
12	1,2,3,6,7,8-HxCDF	4.94e5	1.01e6	1.24	1.20	NO	1.0368	33.57	33.57	NO	1.001	1.001	46.9	93.8	NO



Dataset: Untitled

Last Altered: Friday, December 18, 2020 10:21:10 AM Pacific Standard Time
Printed: Friday, December 18, 2020 10:21:42 AM Pacific Standard Time

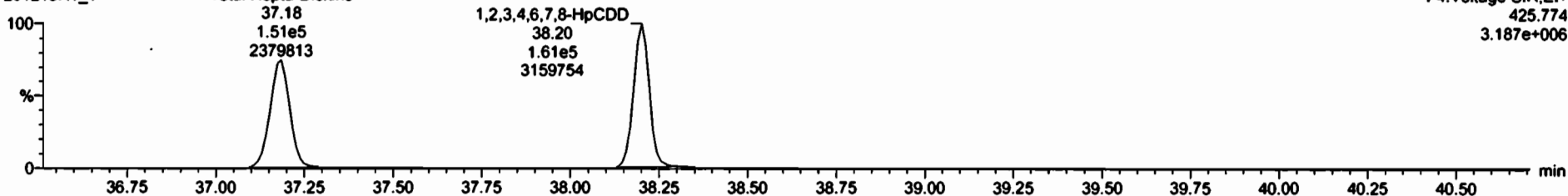
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1,2,3,4,6,7,8-HpCDD

201218R1_1



201218R1_1

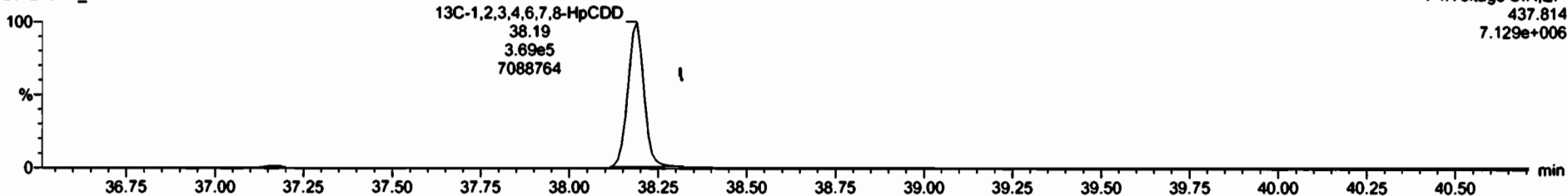


13C-1,2,3,4,6,7,8-HpCDD

201218R1_1



201218R1_1



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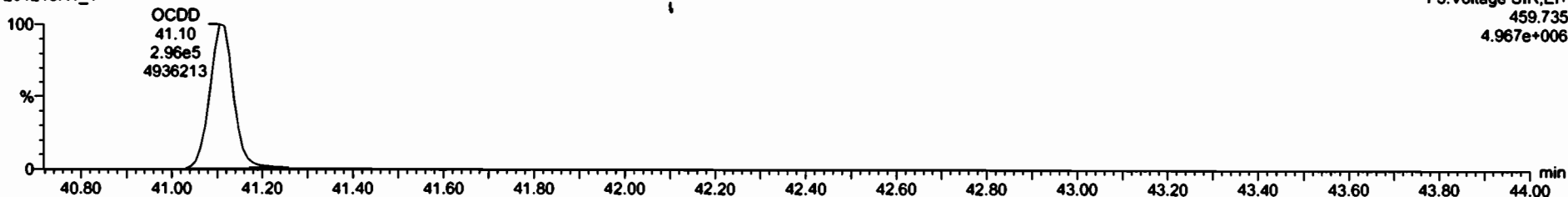
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OCDD

201218R1_1



201218R1_1

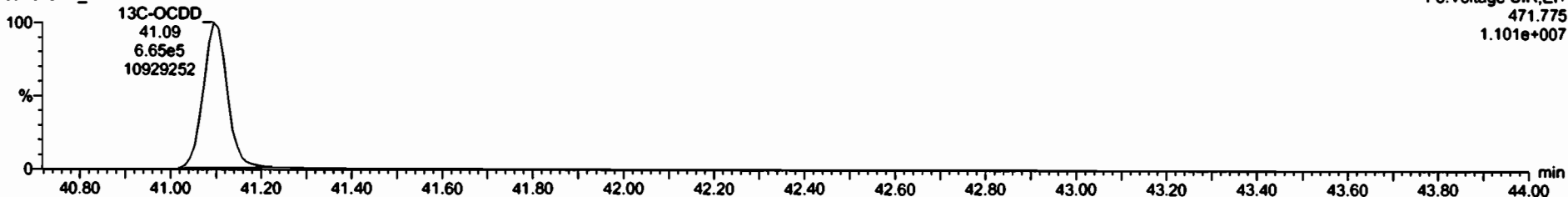


13C-OCDD

201218R1_1



201218R1_1



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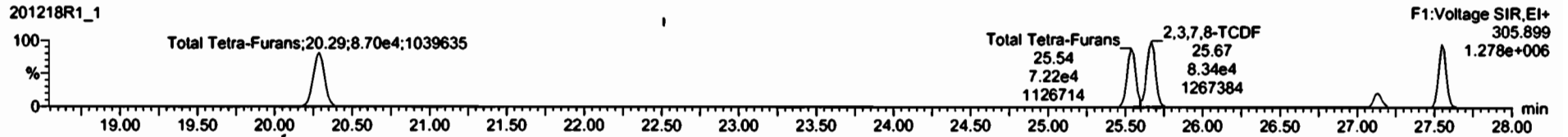
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2,3,7,8-TCDF

201218R1_1

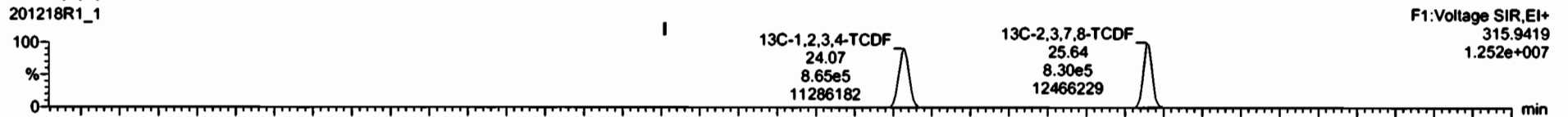


201218R1_1

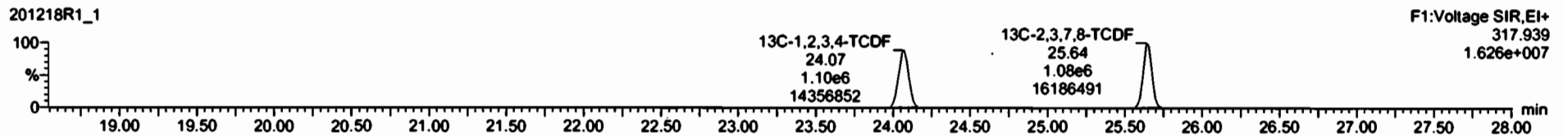


13C-2,3,7,8-TCDF

201218R1_1

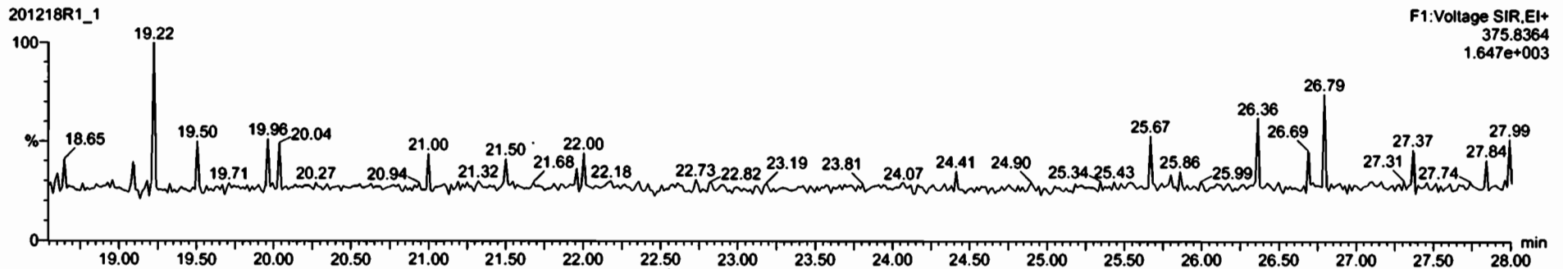


201218R1_1



DPE1

201218R1_1



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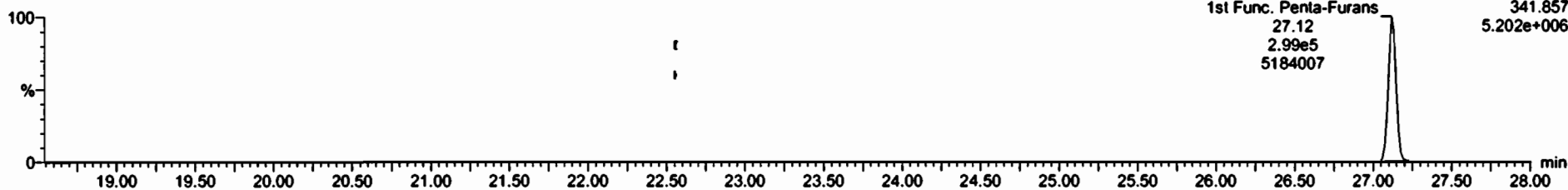
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1st Func. Penta-Furans

201218R1_1

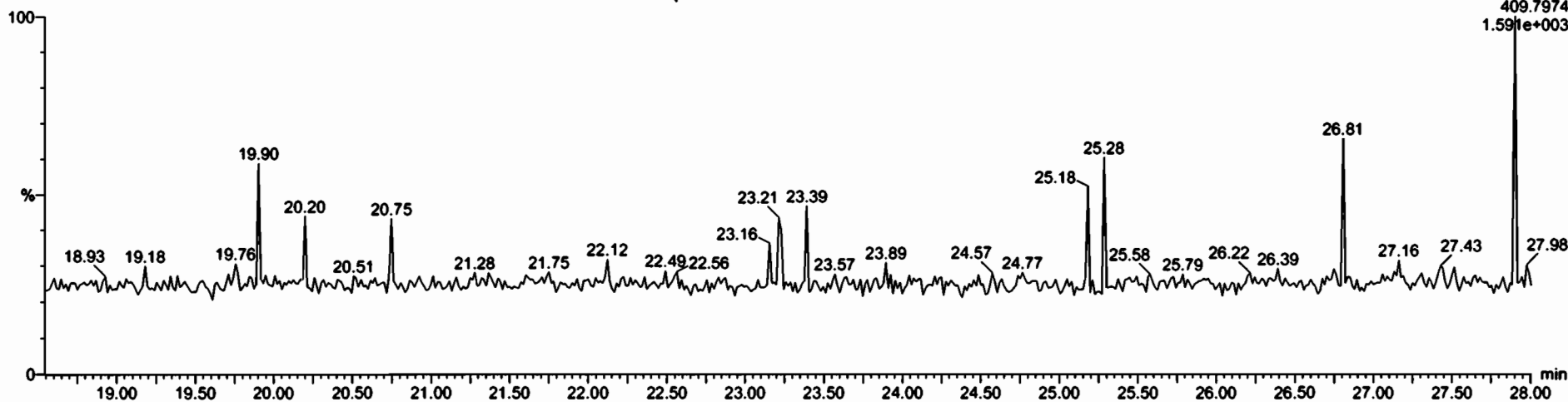


201218R1_1



DPE6

201218R1_1



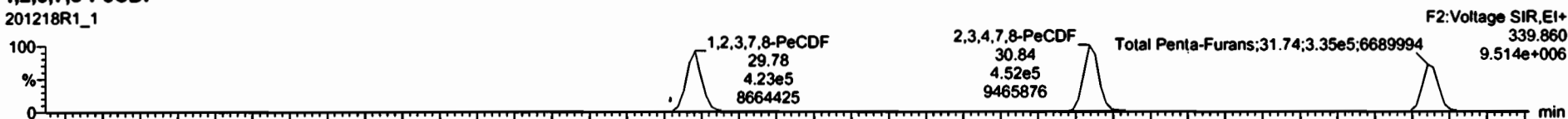
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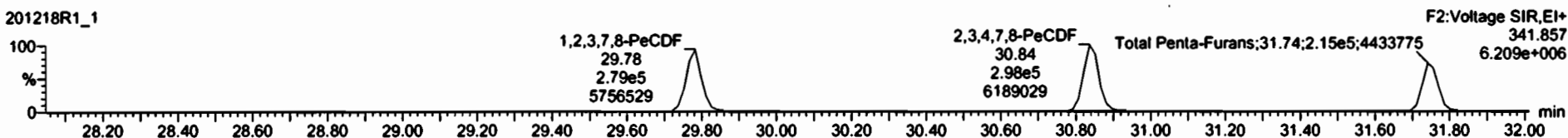
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1,2,3,7,8-PeCDF

201218R1_1



201218R1_1

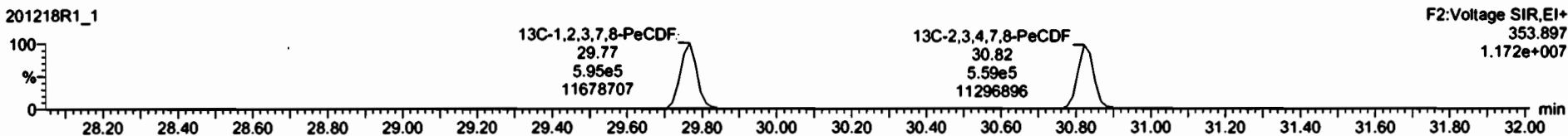


13C-1,2,3,7,8-PeCDF

201218R1_1

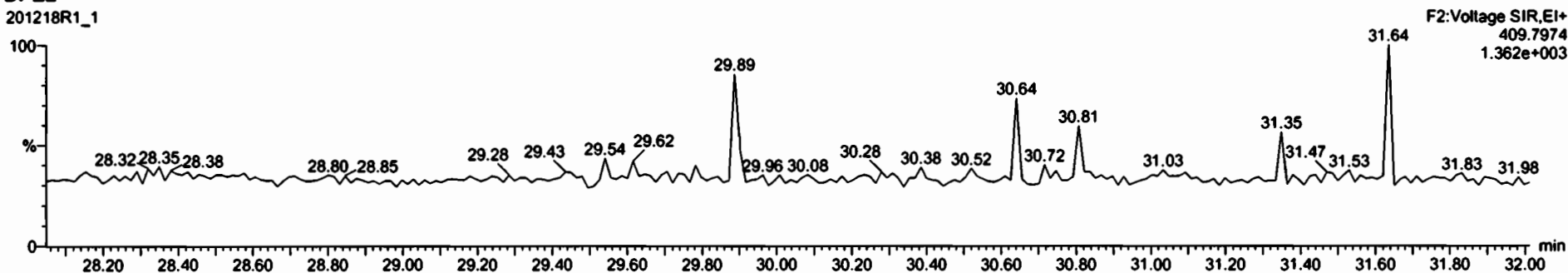


201218R1_1



DPE2

201218R1_1

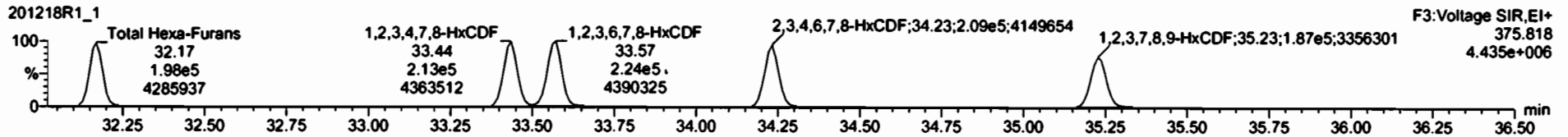
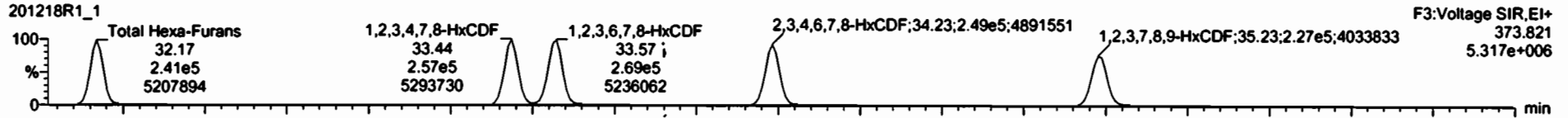


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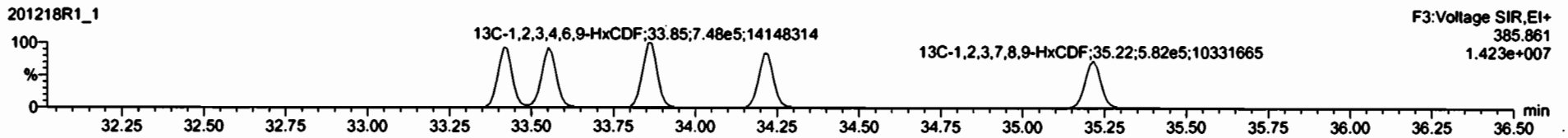
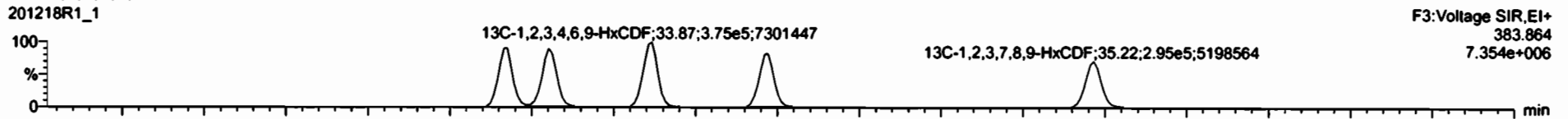
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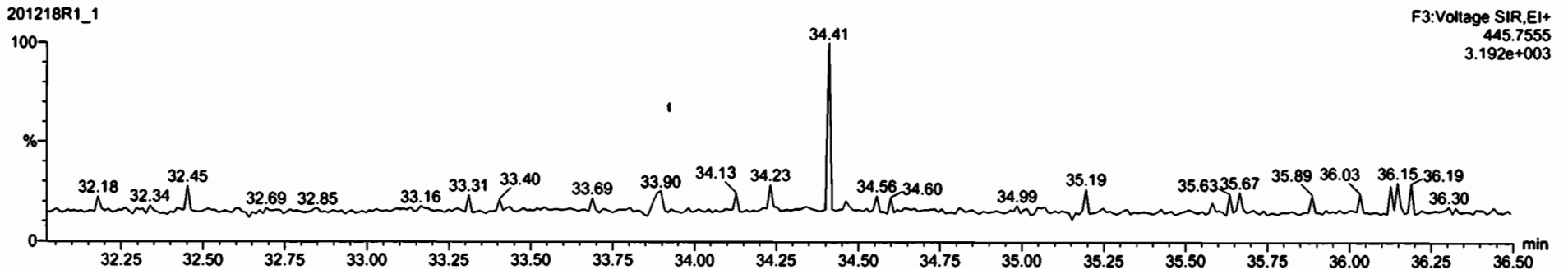
1,2,3,4,7,8-HxCDF



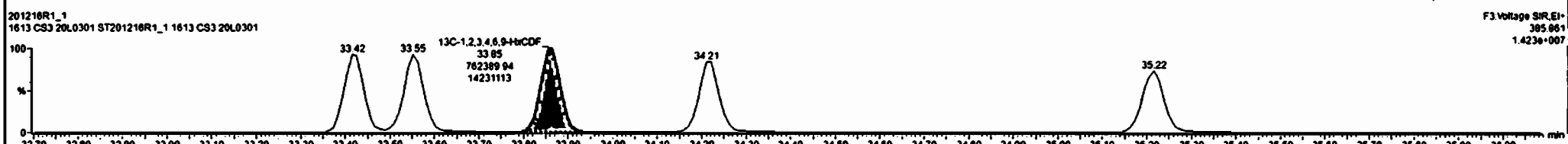
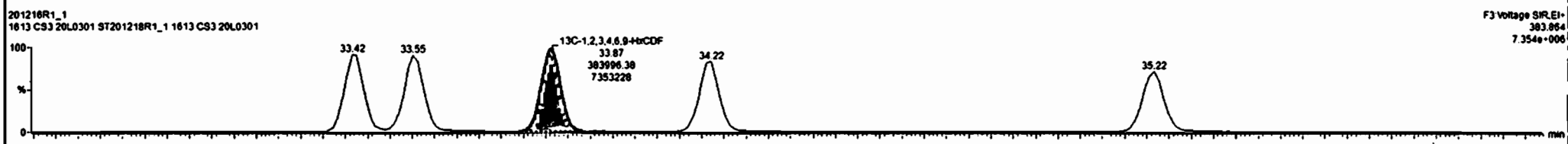
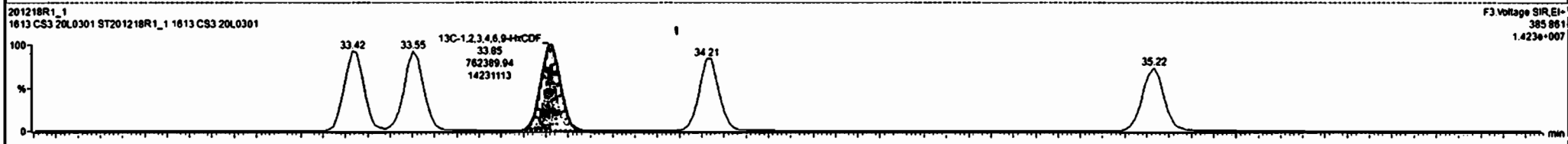
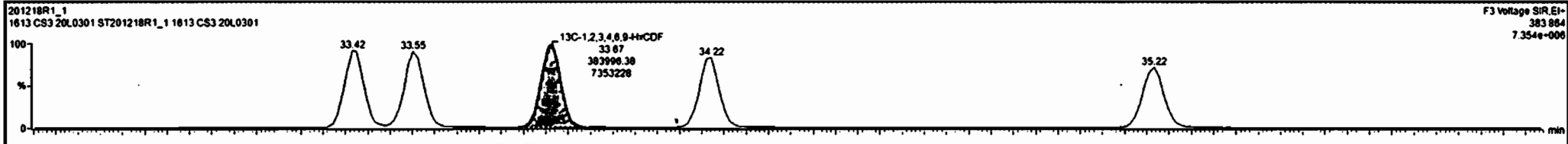
13C-1,2,3,4,7,8-HxCDF



DPE3



#	Name	Resp	RA	nly	RRF	wt/vol	RT	ORT	Conc	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	8.85e5	0.43	NO	0.73	1.000	36.78	1.000	62.2	62.2	0.195	
33	13C-1,2,3,4,7,8,9-HpCDF	5.71e5	0.42	NO	0.49	1.000	36.81	1.146	101	101	0.269	
34	13C-OCDF	1.25e6	0.87	NO	0.57	1.000	41.39	1.222	193	96.7	0.177	
35	37Cl-2,3,7,8-TCDD	1.62e5			1.22	1.000	26.35	1.031	11.0	11.0	0.0119	
36	13C-1,2,3,4-TCDD	1.36e6	0.78	NO	1.00	1.000	25.57	1.000	100	100	0.0541	
37	13C-1,2,3,4-TCDF	1.97e6	0.78	NO	1.00	1.000	24.07	1.000	160	100	0.0437	
38	13C-1,2,3,4,6,8,9-HxCDF	1.15e6	0.50	NO	1.00	1.000	33.67	1.000	100	100	0.147	
39	Total Tetra-Dioxins				0.90	1.000			48.1		0.0146	48.1
40	Total Penta-Dioxins				0.93	1.000			143		0.0624	143
41	Total Hexa-Dioxins				0.90	1.000			206		0.0768	206

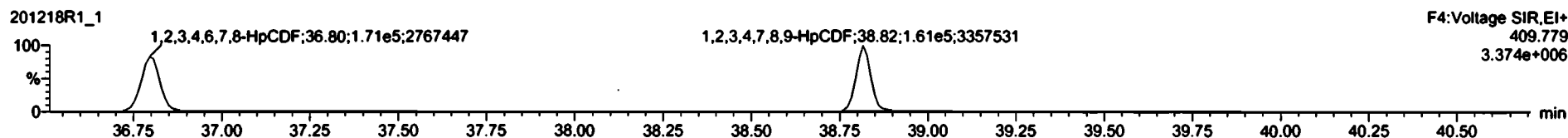
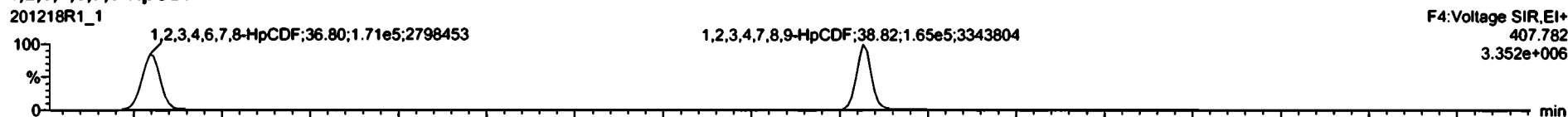


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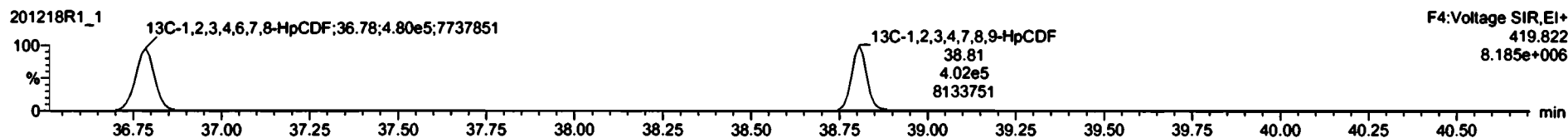
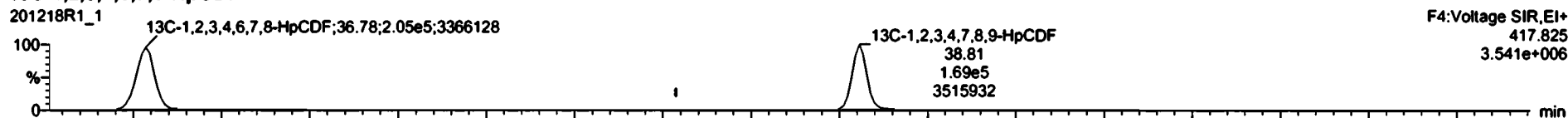
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Printed: Friday, December 18, 2020 10:21:42 AM Pacific Standard Time

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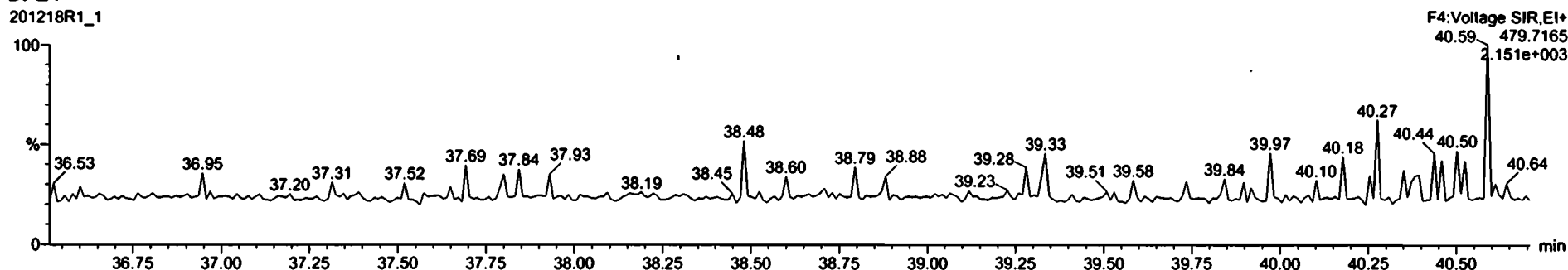
1,2,3,4,6,7,8-HpCDF



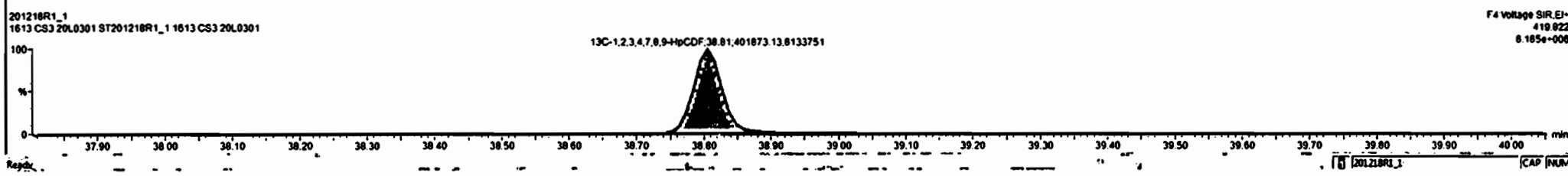
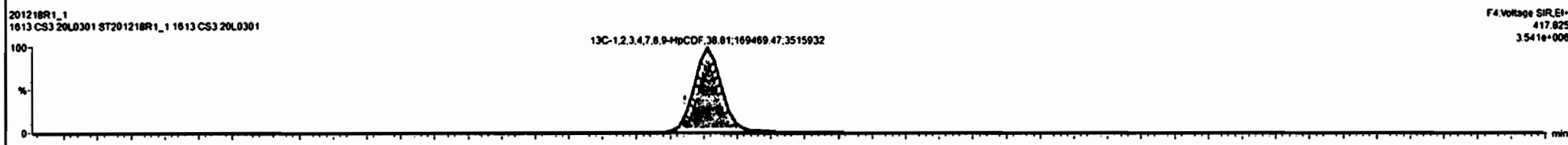
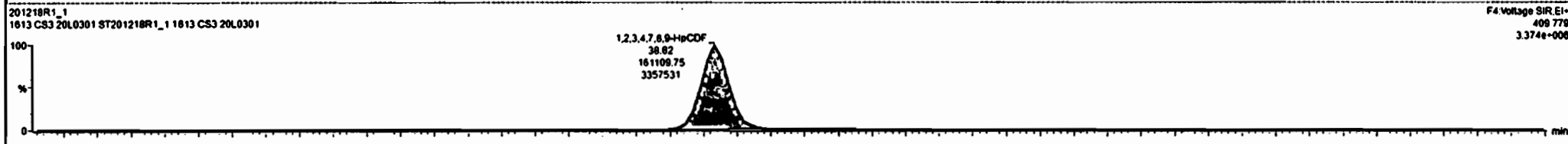
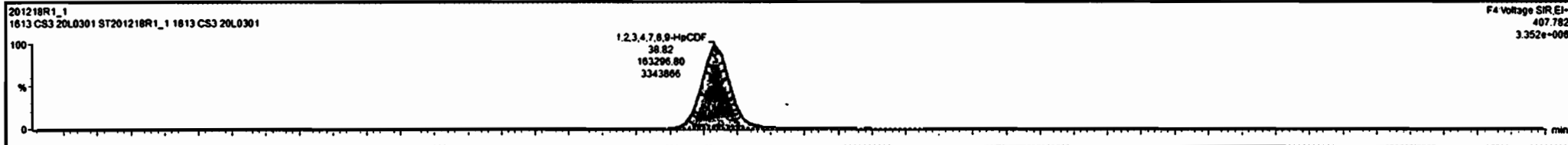
13C-1,2,3,4,6,7,8-HpCDF



DPE4



#	Name	Resp	IS Resp	Pred RA	RA	nly	RPF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
12	1,2,3,6,7,8-HxCDF	4.94e5	1.01e6	1.24	1.20	NO	1.0388	33.57	33.57	NO	1.001	1.001	48.9	93.8	NO
13	1,2,3,4,6,7,8-HxCDF	4.58e5	9.44e5	1.24	1.19	NO	1.0202	34.24	34.23	NO	1.001	1.000	47.5	95.1	NO
14	1,2,3,7,8,9-HxCDF	4.13e5	8.78e5	1.24	1.22	NO	0.9909	35.23	35.23	NO	1.000	1.000	47.5	95.0	NO
15	1,2,3,4,6,7,8-HpCDF	3.42e5	6.85e5	1.04	0.99	NO	1.0492	36.80	36.80	NO	1.000	1.000	47.6	95.2	NO
16	1,2,3,4,7,8,9-HpCDF	3.24e5	5.71e5	1.04	1.01	NO	1.1759	36.82	36.82	NO	1.000	1.000	48.3	98.8	NO
17	OCDF	5.32e5	1.25e6	0.89	0.85	NO	0.9890	41.40	41.40	NO	1.000	1.000	94.7	94.7	NO
18	13C-2,3,7,8-TCDD	1.45e6	1.36e6	0.77	0.78	NO	1.0555	26.34	26.33	NO	1.030	1.030	101	101	NO
19	13C-1,2,3,7,8-PeCDD	1.08e6	1.36e6	0.83	0.61	NO	0.7847	31.17	31.02	NO	1.219	1.213	101	101	NO
20	13C-1,2,3,4,7,8-HxCDD	8.32e5	1.15e6	1.24	1.28	NO	0.8205	34.33	34.33	NO	1.014	1.014	117	117	NO
21	13C-1,2,3,6,7,8-HxCDD	9.77e5	1.15e6	1.24	1.25	NO	0.7340	34.45	34.45	NO	1.017	1.017	118	118	NO

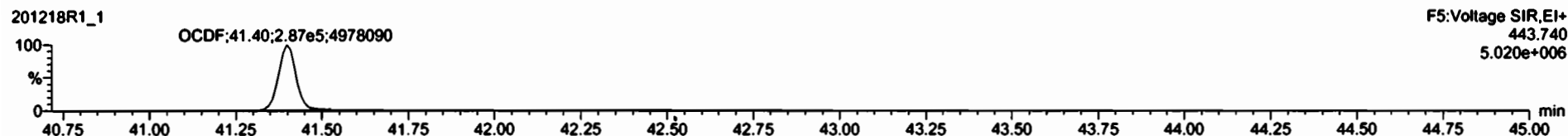
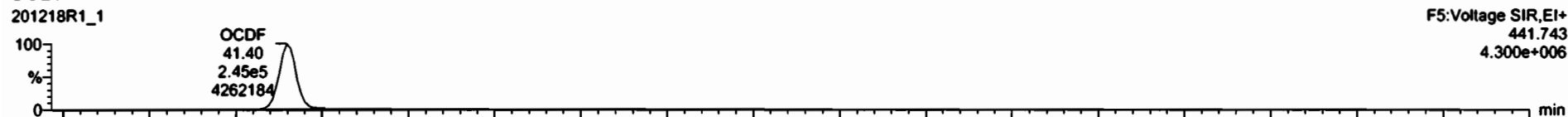


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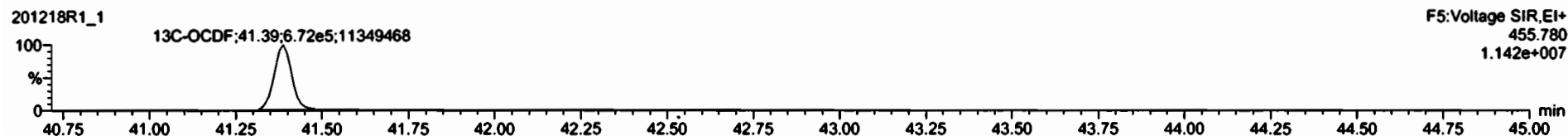
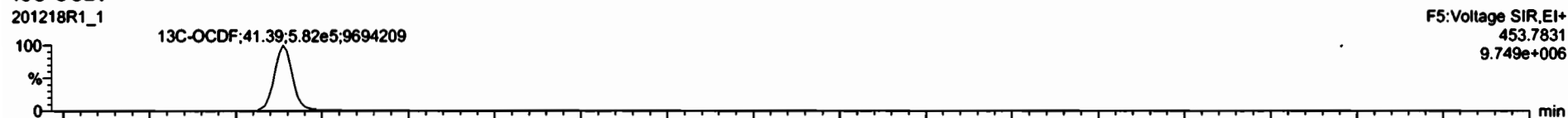
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Name: 201218R1_1, Date: 18-Dec-2020, Time: 09:17:52, ID: ST201218R1_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

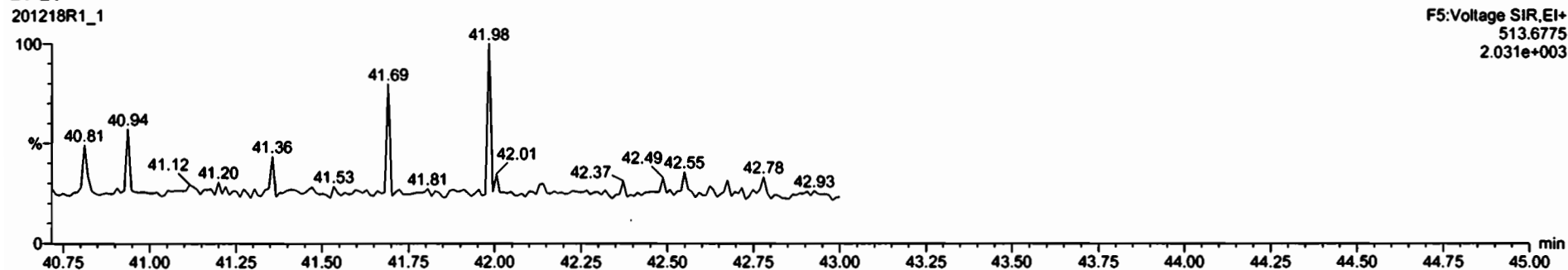
OCDF



13C-OCDF



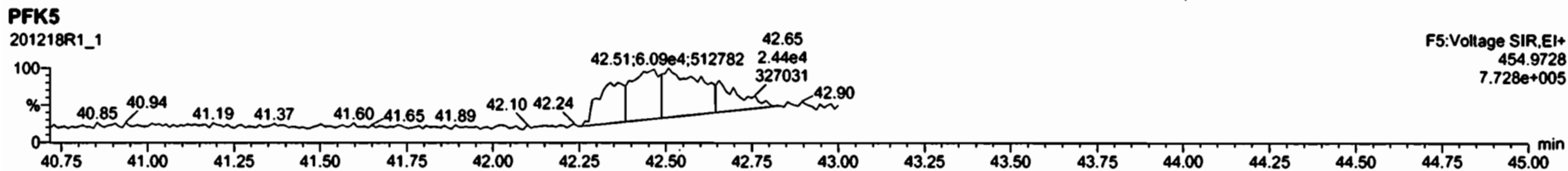
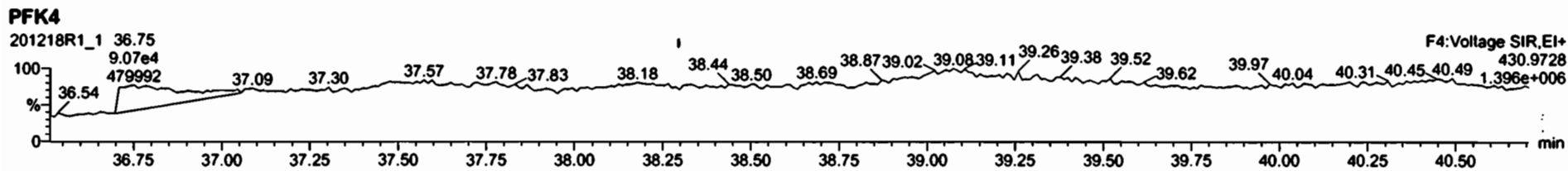
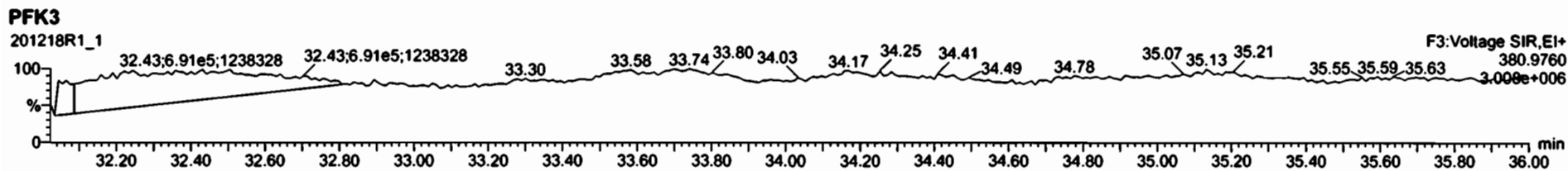
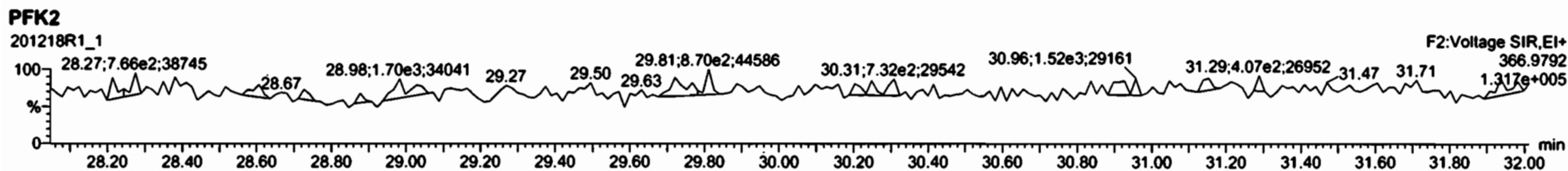
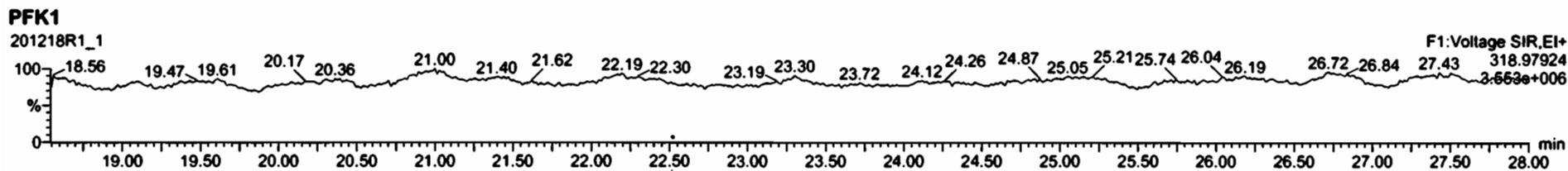
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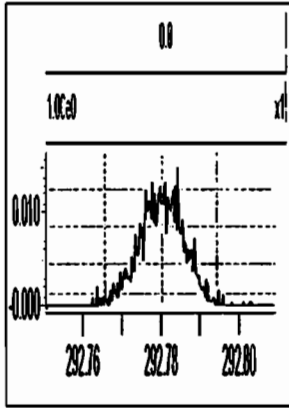
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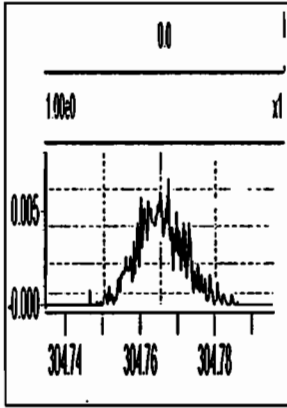
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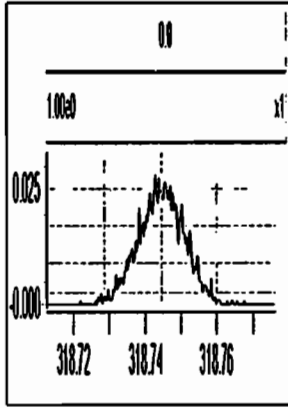
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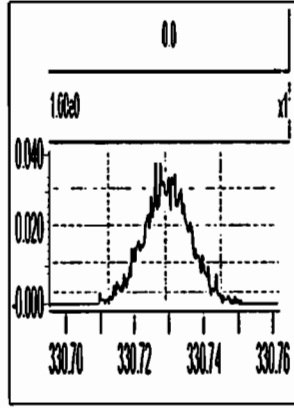
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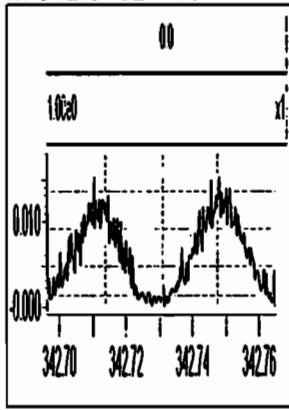
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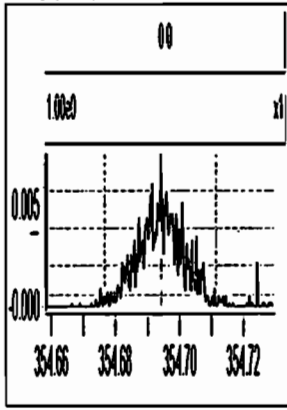
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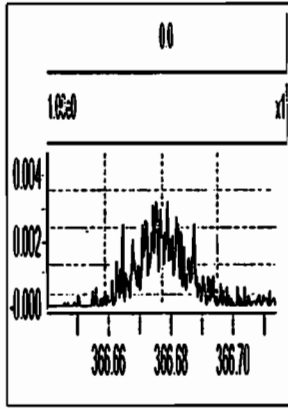
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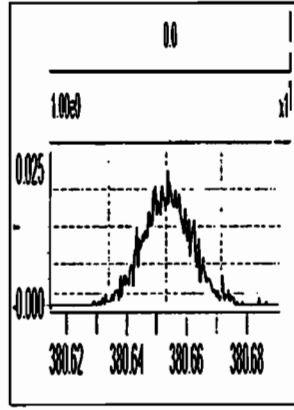
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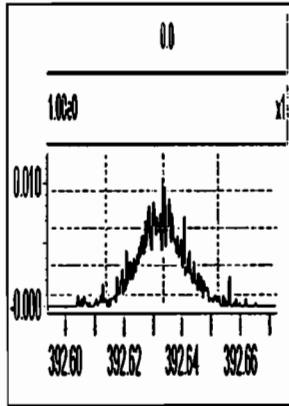
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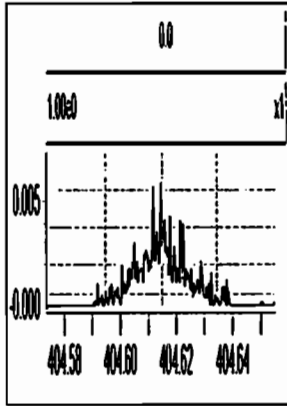
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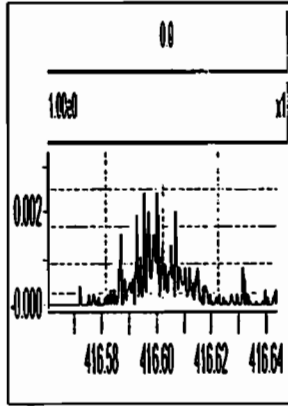
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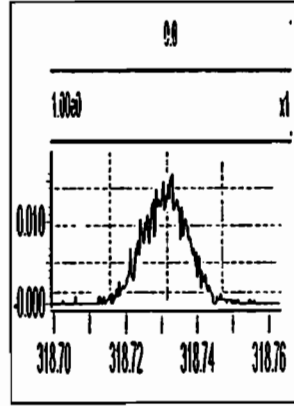
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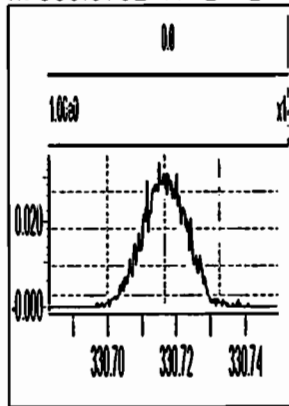
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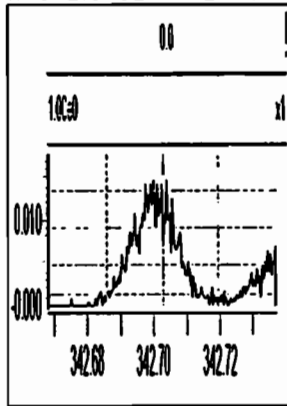
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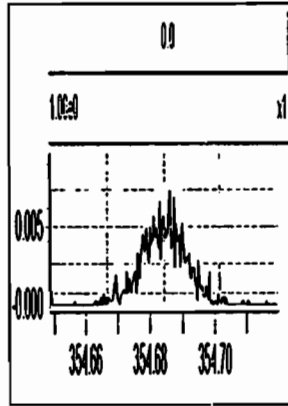
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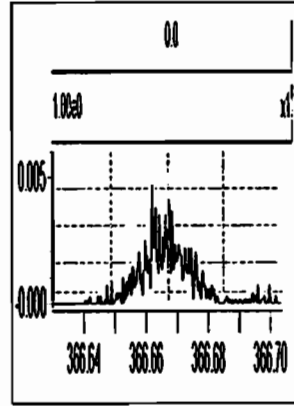
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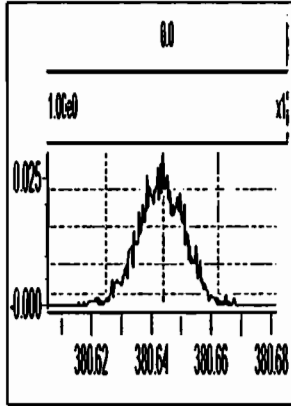
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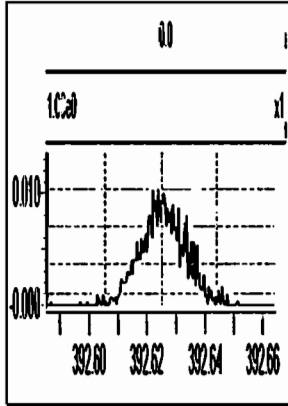
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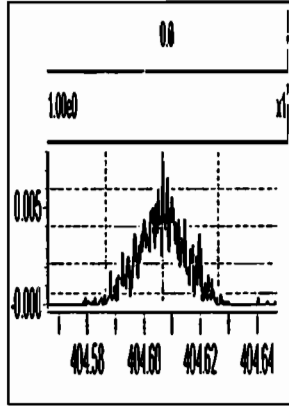
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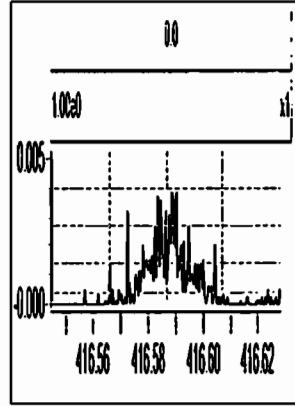
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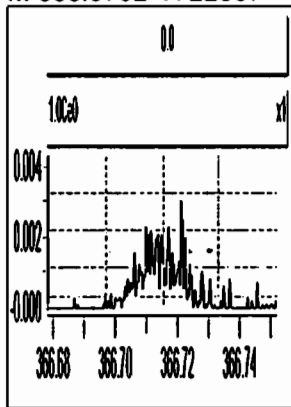
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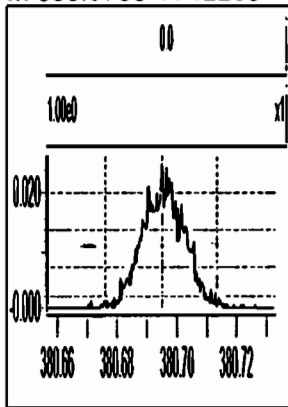
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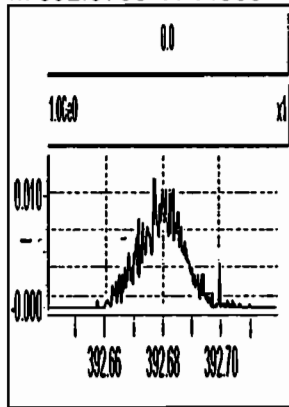
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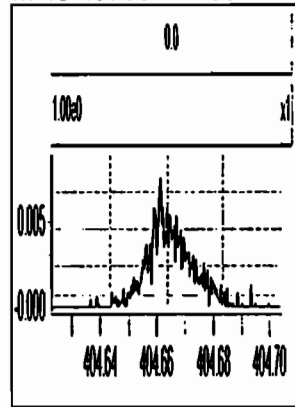
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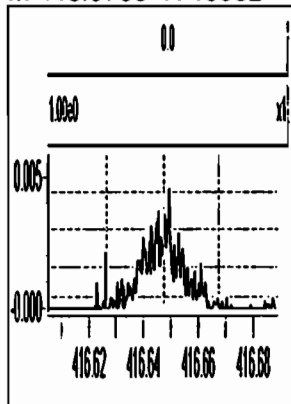
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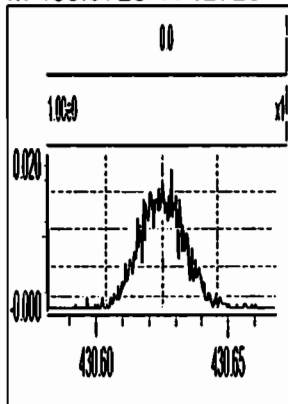
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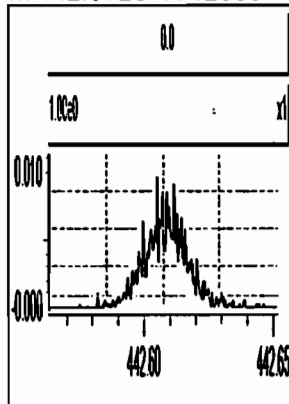
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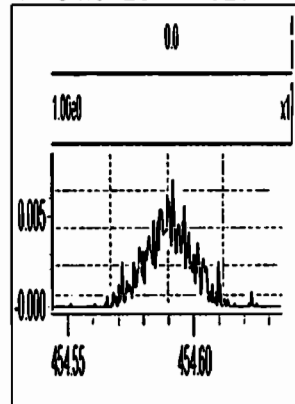
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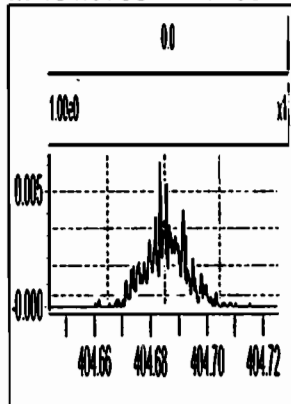
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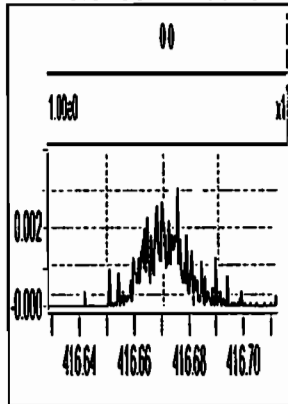
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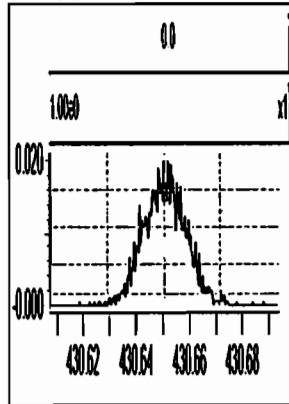
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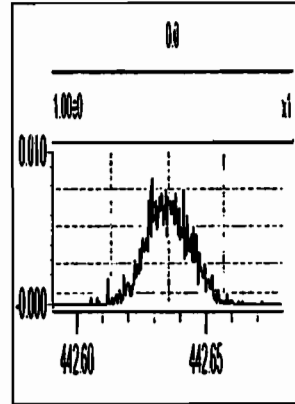
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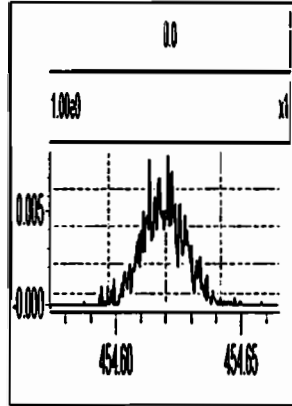
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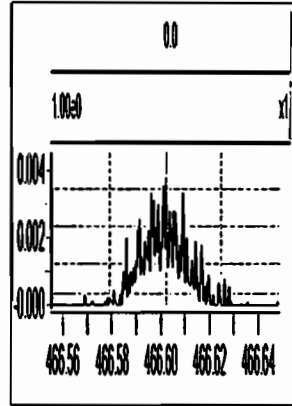
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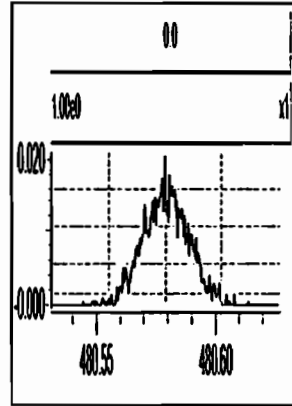
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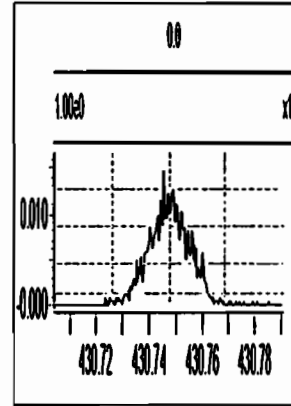
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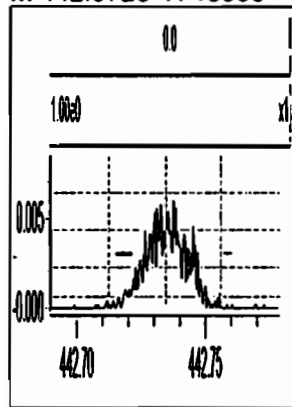
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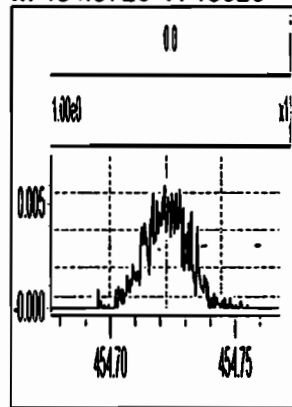
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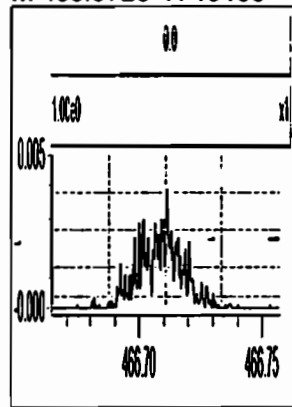
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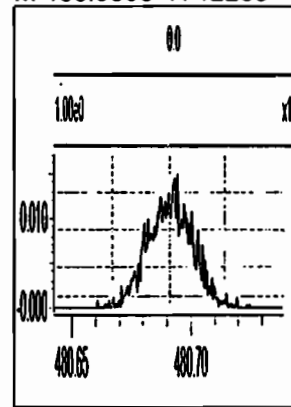
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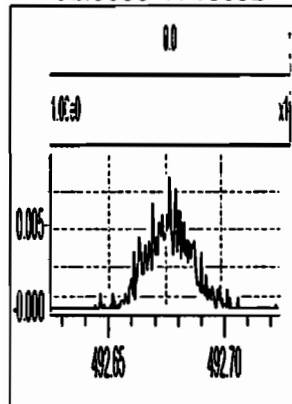
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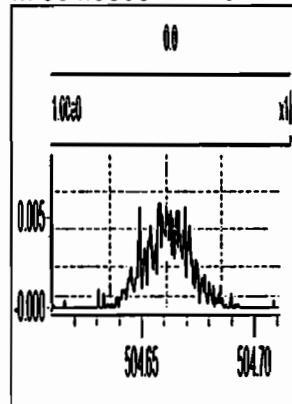
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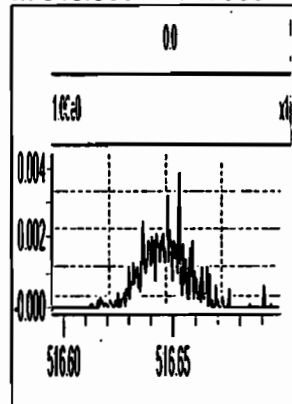
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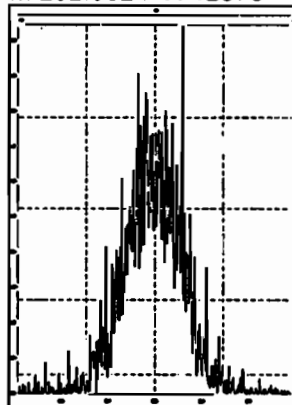


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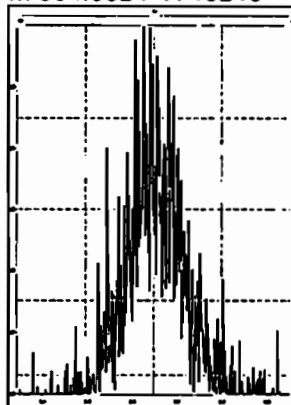


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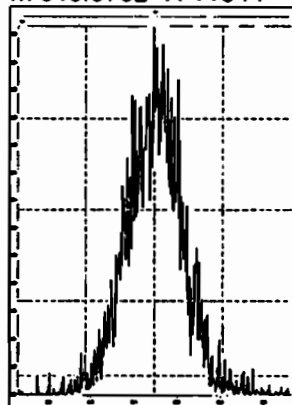
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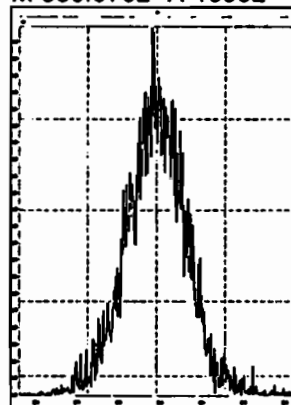
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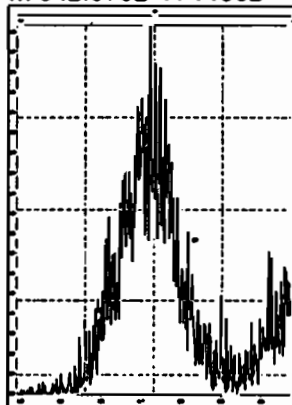
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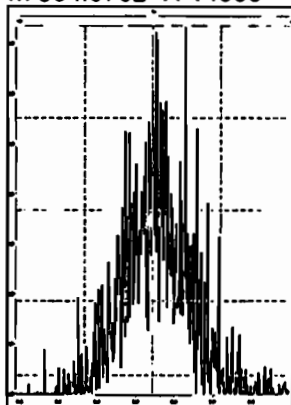
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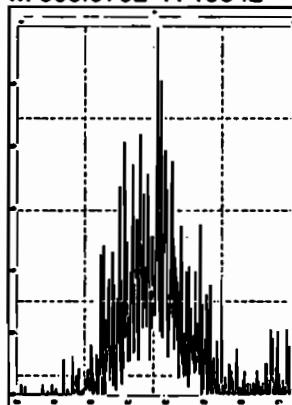
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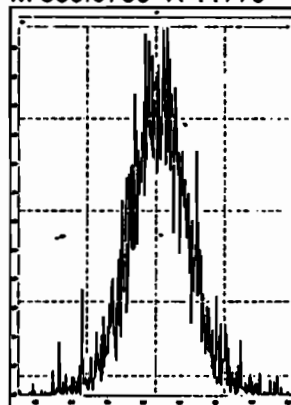
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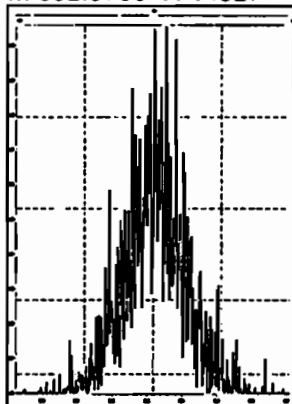
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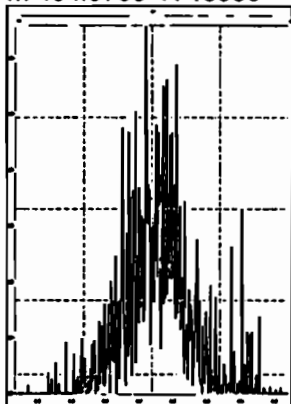
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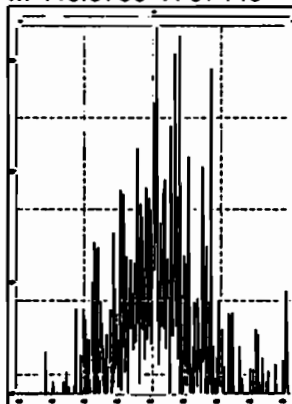
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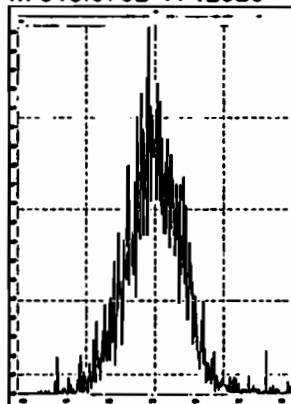
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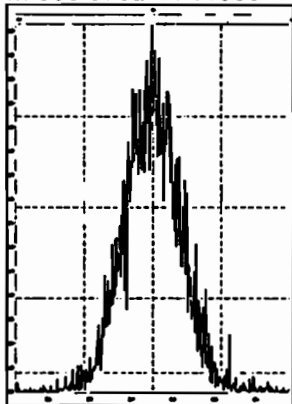
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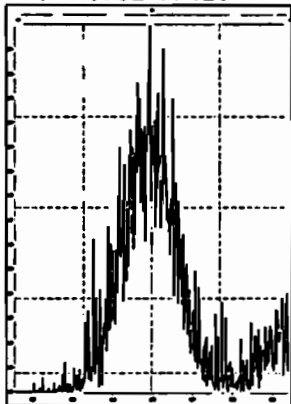
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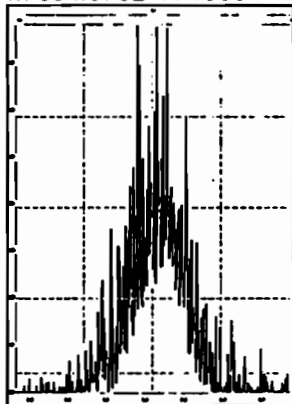
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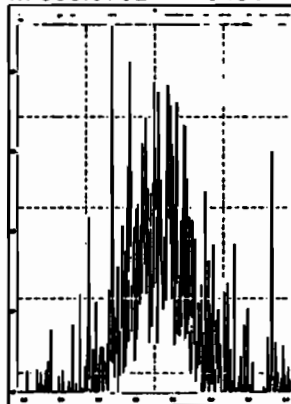
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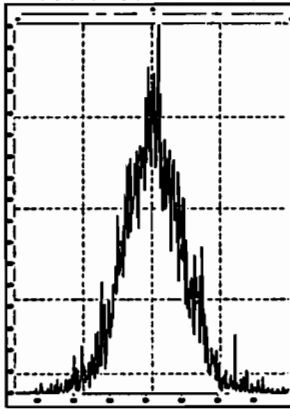


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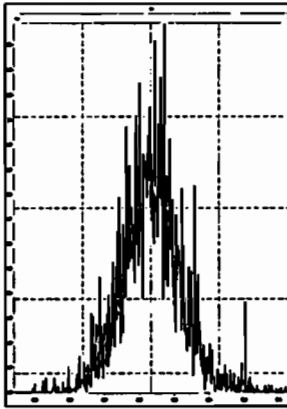


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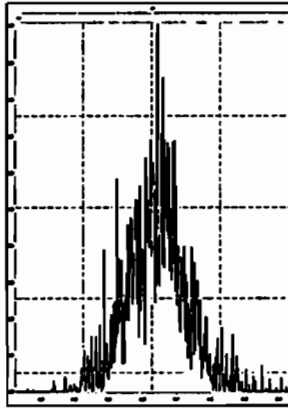
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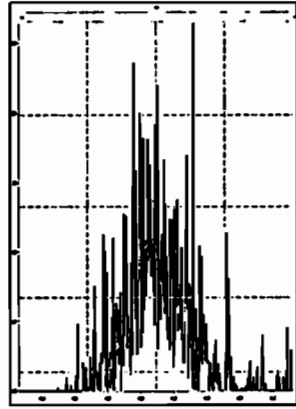
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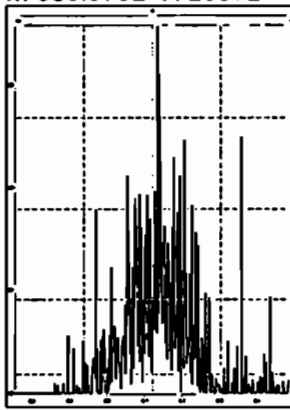
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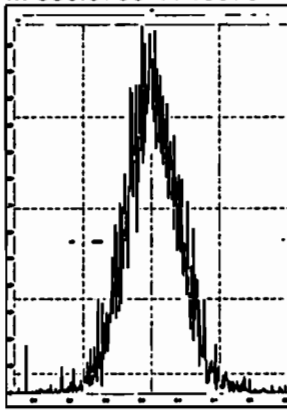
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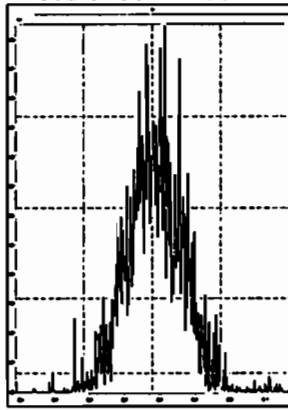
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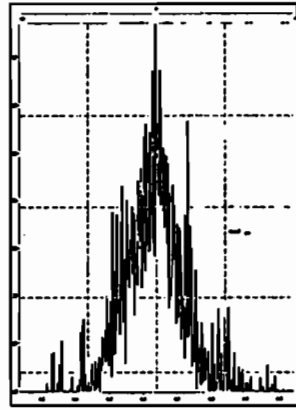
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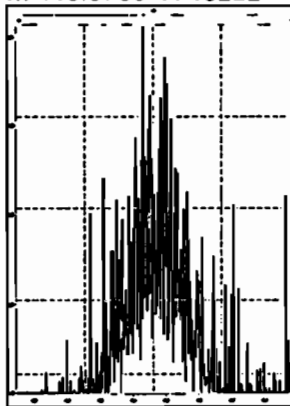
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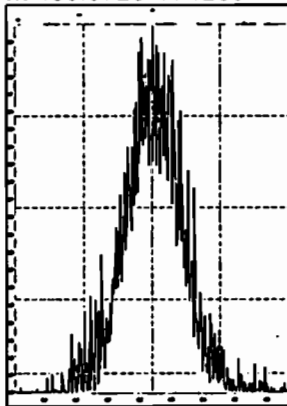
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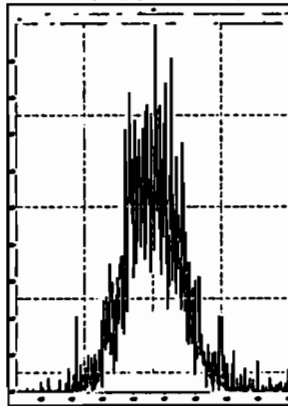
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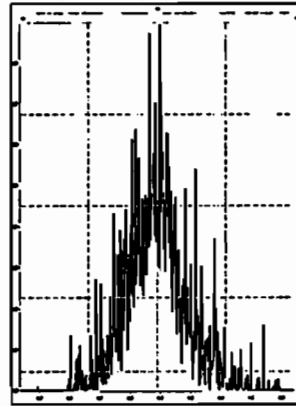
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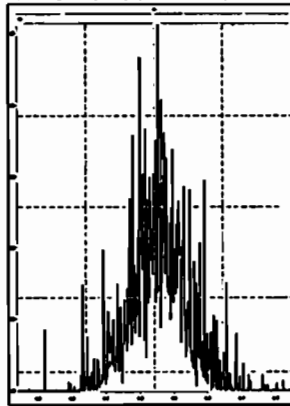
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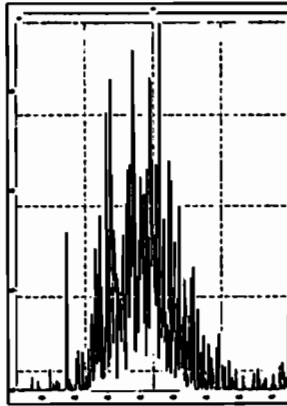
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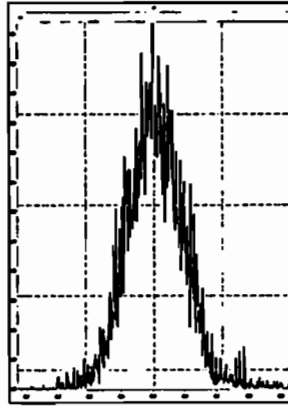
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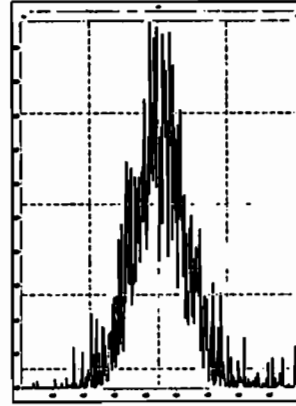
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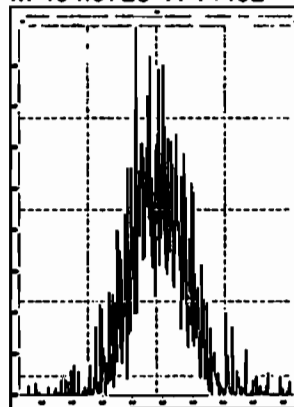


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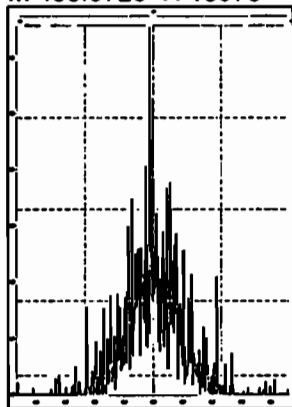


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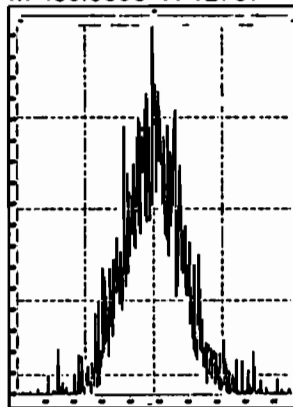
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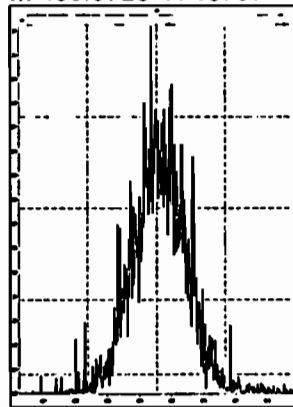
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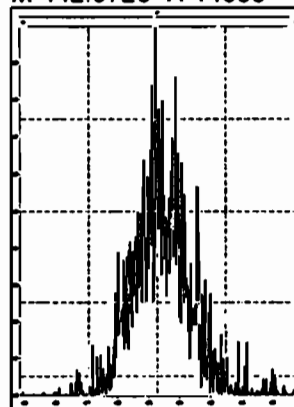
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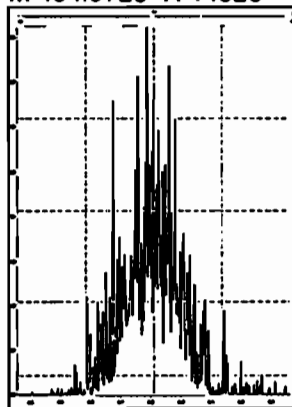
M 430.9728 R 13797



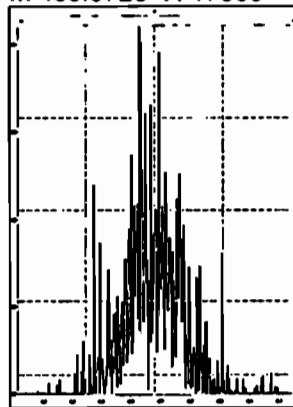
M 442.9728 R 14388



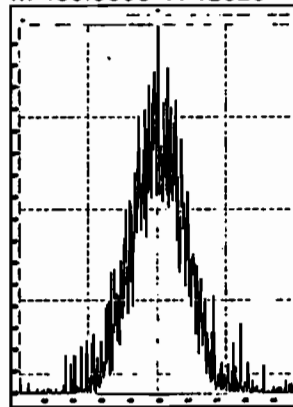
M 454.9728 R 14626



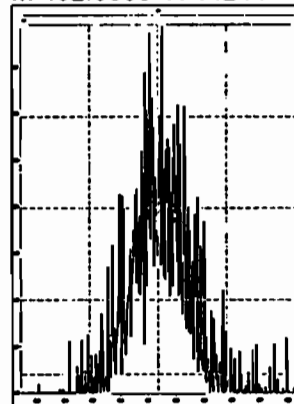
M 466.9728 R 17335



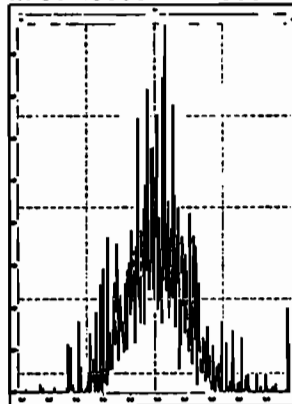
M 480.9696 R 12825



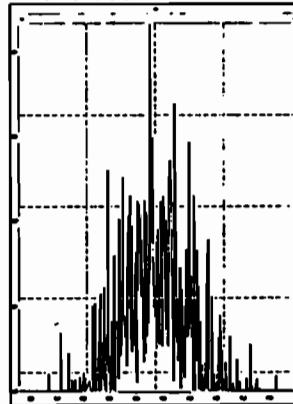
M 492.9696 R 14244



M 504.9696 R 14565



M 516.9697 R 21009



ANALYTICAL CALIBRATION STANDARDS REVIEW CHECKLIST

Begin Calibration ID: ST201220RI-1

Reviewed By: HN 12/21/2020

Initials & Date

End Calibration ID: NA

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

Mass resolution \geq

5k 6-8K 8K 10K

1614 1699 429 1613/1668/8280

	<u>Begin</u>	<u>End</u>
Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <u>NA</u>
GC Break <20%		<input checked="" type="checkbox"/> <u>NA</u>

8280 CS1 End Standard:

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

NA

Comments:

Dataset: U:\VG12.PRO\Results\201220R1\201220R1-2.qld

Last Altered: Monday, December 21, 2020 6:59:39 AM Pacific Standard Time

Printed: Monday, December 21, 2020 7:52:38 AM Pacific Standard Time

GRB 12/21/2020
HN 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: 201220R1_2, Date: 20-Dec-2020, Time: 09:15:58, ID: ST201220R1_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	5.90e4	6.11e5	0.74	NO	0.980	26.32	26.32	NO	1.001	1.001	9.8504	98.5	NO
2	2 1,2,3,7,8-PeCDD	2.29e5	4.73e5	0.60	NO	0.932	31.03	31.02	NO	1.001	1.000	51.944	104	NO
3	3 1,2,3,4,7,8-HxCDD	1.96e5	3.70e5	1.25	NO	1.02	34.31	34.32	NO	1.001	1.001	51.950	104	NO
4	4 1,2,3,6,7,8-HxCDD	2.01e5	4.37e5	1.22	NO	0.902	34.44	34.43	NO	1.001	1.000	51.018	102	NO
5	5 1,2,3,7,8,9-HxCDD	2.05e5	4.32e5	1.25	NO	0.954	34.69	34.70	NO	1.000	1.001	49.875	99.8	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.52e5	3.36e5	1.02	NO	0.918	38.17	38.17	NO	1.000	1.000	49.153	98.3	NO
7	7 OCDD	2.59e5	5.93e5	0.87	NO	0.866	41.08	41.08	NO	1.000	1.000	100.95	101	NO
8	8 2,3,7,8-TCDF	6.65e4	8.59e5	0.73	NO	0.848	25.61	25.63	NO	1.000	1.001	9.1301	91.3	NO
9	9 1,2,3,7,8-PeCDF	3.24e5	6.57e5	1.56	NO	0.960	29.74	29.75	NO	1.000	1.000	51.405	103	NO
10	10 2,3,4,7,8-PeCDF	3.59e5	6.51e5	1.57	NO	1.07	30.83	30.82	NO	1.001	1.000	51.727	103	NO
11	11 1,2,3,4,7,8-HxCDF	2.29e5	4.77e5	1.21	NO	0.986	33.40	33.40	NO	1.000	1.000	48.672	97.3	NO
12	12 1,2,3,6,7,8-HxCDF	2.34e5	4.61e5	1.20	NO	1.04	33.55	33.54	NO	1.001	1.000	48.877	97.8	NO
13	13 2,3,4,6,7,8-HxCDF	2.18e5	4.36e5	1.22	NO	1.02	34.21	34.20	NO	1.001	1.000	48.908	97.8	NO
14	14 1,2,3,7,8,9-HxCDF	1.99e5	4.04e5	1.22	NO	0.991	35.19	35.19	NO	1.000	1.001	49.608	99.2	NO
15	15 1,2,3,4,6,7,8-HpCDF	1.75e5	3.44e5	1.01	NO	1.05	36.76	36.75	NO	1.000	1.000	48.501	97.0	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.57e5	2.74e5	0.99	NO	1.18	38.78	38.78	NO	1.000	1.000	48.738	97.5	NO
17	17 OCDF	2.71e5	6.11e5	0.87	NO	0.896	41.36	41.38	NO	1.000	1.000	98.863	98.9	NO
18	18 13C-2,3,7,8-TCDD	6.11e5	5.79e5	0.78	NO	1.06	26.29	26.29	NO	1.030	1.030	99.896	99.9	NO
19	19 13C-1,2,3,7,8-PeCDD	4.73e5	5.79e5	0.63	NO	0.785	31.12	31.00	NO	1.219	1.215	104.02	104	NO
20	20 13C-1,2,3,4,7,8-HxCDD	3.70e5	5.11e5	1.30	NO	0.621	34.29	34.29	NO	1.014	1.014	116.62	117	NO
21	21 13C-1,2,3,6,7,8-HxCDD	4.37e5	5.11e5	1.28	NO	0.734	34.42	34.42	NO	1.017	1.017	116.44	116	NO
22	22 13C-1,2,3,7,8,9-HxCDD	4.32e5	5.11e5	1.28	NO	0.723	34.70	34.68	NO	1.026	1.025	116.78	117	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.36e5	5.11e5	1.07	NO	0.568	38.19	38.16	NO	1.129	1.128	115.86	116	NO
24	24 13C-OCDD	5.93e5	5.11e5	0.87	NO	0.496	41.13	41.07	NO	1.216	1.214	233.76	117	NO
25	25 13C-2,3,7,8-TCDF	8.59e5	8.98e5	0.76	NO	0.919	25.59	25.61	NO	1.003	1.003	104.10	104	NO
26	26 13C-1,2,3,7,8-PeCDF	6.57e5	8.98e5	1.59	NO	0.715	29.83	29.74	NO	1.169	1.165	102.24	102	NO
27	27 13C-2,3,4,7,8-PeCDF	6.51e5	8.98e5	1.60	NO	0.689	30.92	30.81	NO	1.212	1.207	105.24	105	NO
28	28 13C-1,2,3,4,7,8-HxCDF	4.77e5	5.11e5	0.50	NO	0.873	33.40	33.40	NO	0.987	0.987	106.75	107	NO
29	29 13C-1,2,3,6,7,8-HxCDF	4.61e5	5.11e5	0.50	NO	0.933	33.53	33.53	NO	0.991	0.991	96.507	96.5	NO
30	30 13C-2,3,4,6,7,8-HxCDF	4.36e5	5.11e5	0.50	NO	0.843	34.20	34.19	NO	1.011	1.010	101.15	101	NO
31	31 13C-1,2,3,7,8,9-HxCDF	4.04e5	5.11e5	0.50	NO	0.780	35.19	35.17	NO	1.040	1.040	101.27	101	NO

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201220R1\201220R1-2.qld

Last Altered: Monday, December 21, 2020 6:59:39 AM Pacific Standard Time

Printed: Monday, December 21, 2020 7:52:38 AM Pacific Standard Time

Name: 201220R1_2, Date: 20-Dec-2020, Time: 09:15:58, ID: ST201220R1_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	3.44e5	5.11e5	0.42	NO	0.726	36.77	36.74	NO	1.087	1.086	92.643	92.6	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.74e5	5.11e5	0.42	NO	0.491	38.77	38.77	NO	1.146	1.146	109.09	109	NO
34	34 13C-OCDF	6.11e5	5.11e5	0.87	NO	0.565	41.35	41.36	NO	1.222	1.222	211.46	106	NO
35	35 37Cl-2,3,7,8-TCDD	7.52e4	5.79e5			1.22	26.29	26.32	NO	1.030	1.031	10.663	107	NO
36	36 13C-1,2,3,4-TCDD	5.79e5	5.79e5	0.77	NO	1.00	25.64	25.52	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	8.98e5	8.98e5	0.79	NO	1.00	24.13	24.01	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	5.11e5	5.11e5	0.50	NO	1.00	33.92	33.83	NO	1.000	1.000	100.00	100	YES <i>ok</i>

Dataset: Untitled

Last Altered: Monday, December 21, 2020 06:50:00 Pacific Standard Time
Printed: Monday, December 21, 2020 06:50:15 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

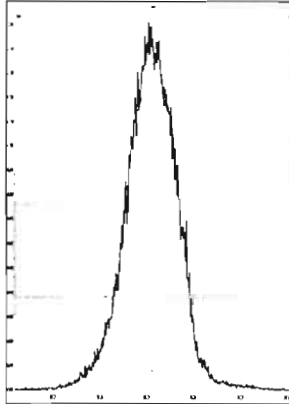
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	201220R1_1	SOLVENT BLANK	20-Dec-20	07:57:05
2	201220R1_2	ST201220R1_1 1613 CS3 20L0301	20-Dec-20	09:15:58
3	201220R1_3	SOLVENT BLANK	20-Dec-20	10:00:16
4	201220R1_4	2002532-02 USMPDI-001SC-A-02-03-201111 ...	20-Dec-20	10:44:30
5	201220R1_5	2002532-03 USMPDI-001SC-A-03-04-201111 ...	20-Dec-20	11:28:45
6	201220R1_6	2002532-04 USMPDI-001SC-A-04-05-201111 ...	20-Dec-20	12:13:01
7	201220R1_7	2002532-05 USMPDI-002SC-A-04-05-201111 ...	20-Dec-20	12:57:15
8	201220R1_8	2002532-06 USMPDI-002SC-A-05-06-201111 ...	20-Dec-20	13:41:32
9	201220R1_9	2002532-07 USMPDI-004SC-A-01-02-201111 ...	20-Dec-20	14:25:47
10	201220R1_10	2002532-08 USMPDI-004SC-A-02-03-201111 ...	20-Dec-20	15:10:02
11	201220R1_11	2002532-09 USMPDI-004SC-A-03-04-201111 ...	20-Dec-20	15:54:19
12	201220R1_12	2002532-10 USMPDI-004SC-A-04-05-201111 ...	20-Dec-20	16:38:35
13	201220R1_13	2002532-11 USMPDI-011SC-A-04-05-201111 ...	20-Dec-20	17:22:50
14	201220R1_14	2002532-12 USMPDI-011SC-A-05-06-201111 ...	20-Dec-20	18:07:05
15	201220R1_15	2002532-13 USMPDI-011SC-A-06-07-201111 ...	20-Dec-20	18:51:22
16	201220R1_16	2002532-14 USMPDI-011SC-A-07-08-201111 ...	20-Dec-20	19:35:36

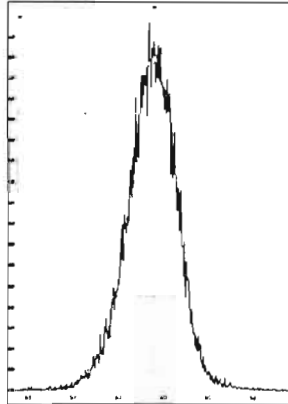
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Sunday, December 20, 2020 09:12:23 Pacific Standard Time

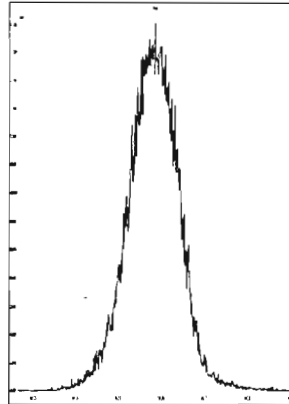
M 292.9824 R 11317



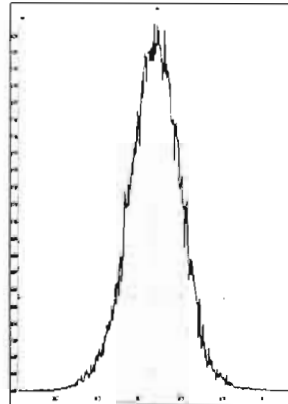
M 304.9824 R 11739



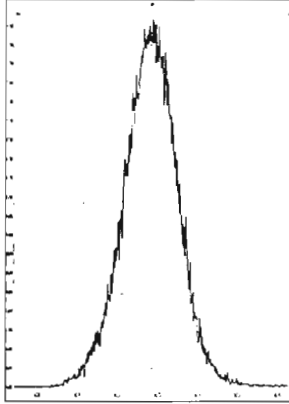
M 318.9792 R 11961



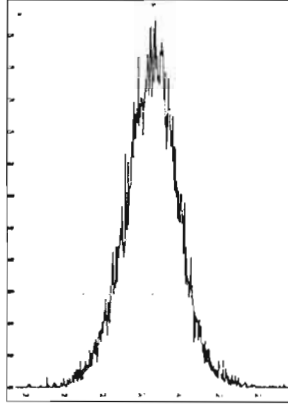
M 330.9792 R 10967



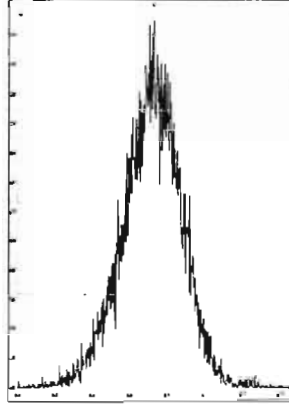
M 342.9792 R 10638



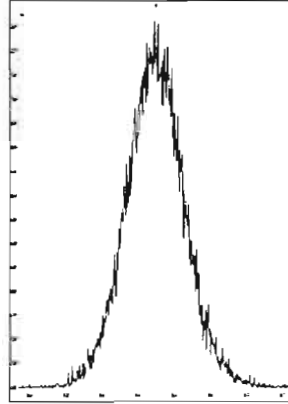
M 354.9792 R 10458



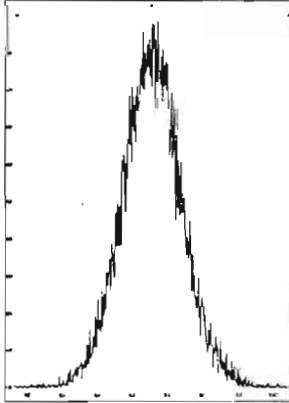
M 366.9792 R 10331



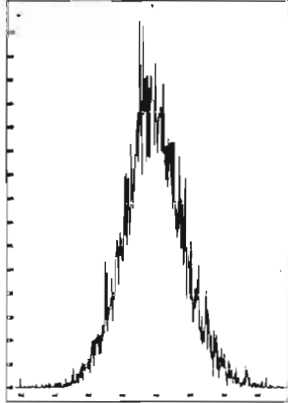
M 380.9760 R 10203



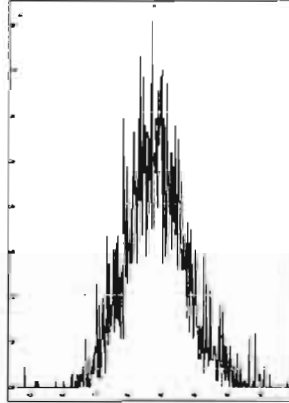
M 392.9760 R 10163



M 404.9760 R 10547



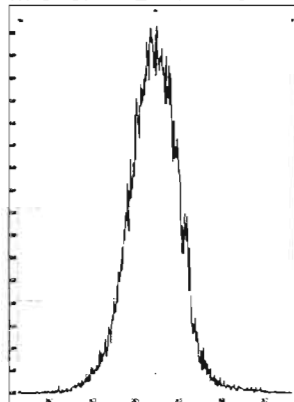
M 416.9760 R 11679



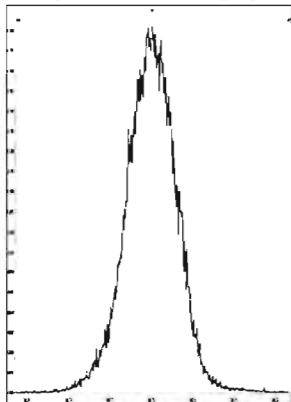
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Sunday, December 20, 2020 09:13:46 Pacific Standard Time

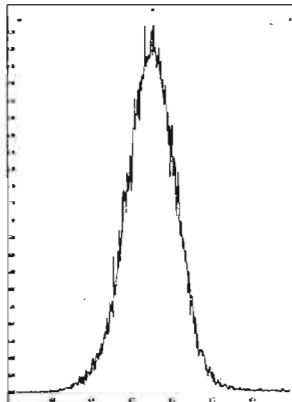
M 318.9792 R 11467



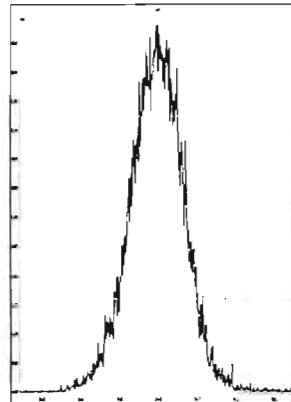
M 330.9792 R 11523



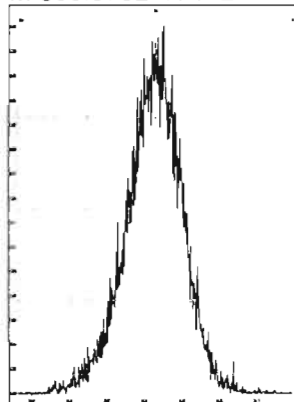
M 342.9792 R 11848



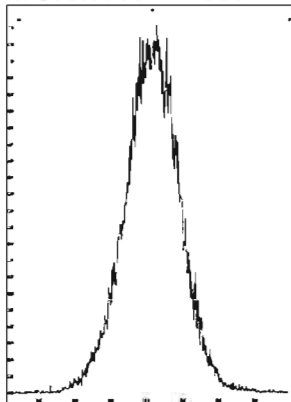
M 354.9792 R 11208



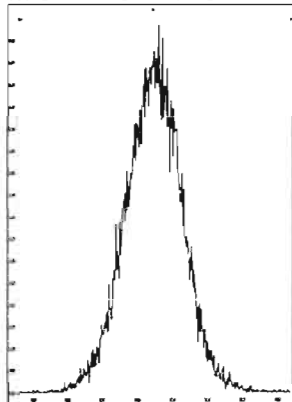
M 366.9792 R 11211



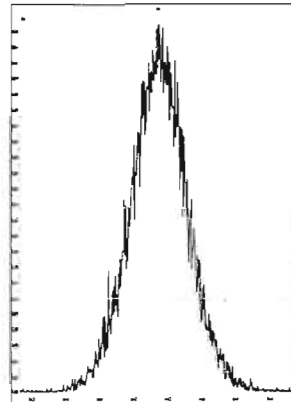
M 380.9760 R 10682



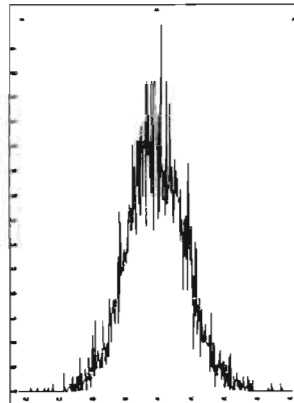
M 392.9760 R 10819



M 404.9760 R 10547



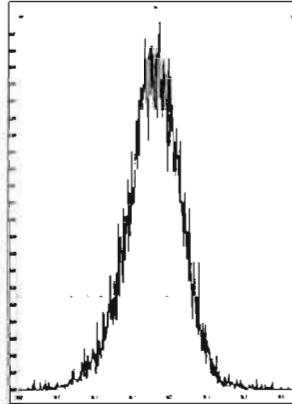
M 416.9760 R 11161



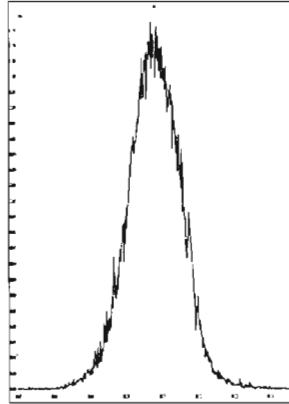
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Sunday, December 20, 2020 09:14:25 Pacific Standard Time

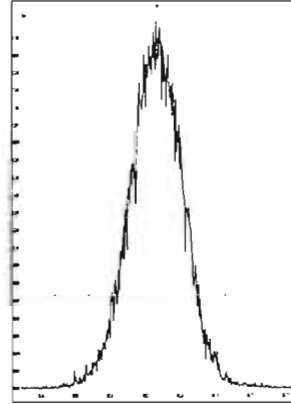
M 366.9792 R 11010



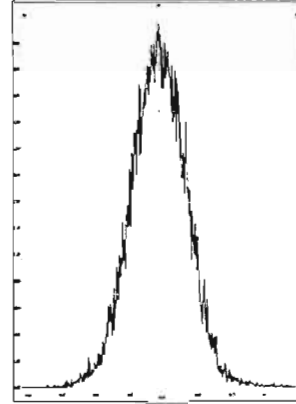
M 380.9760 R 11363



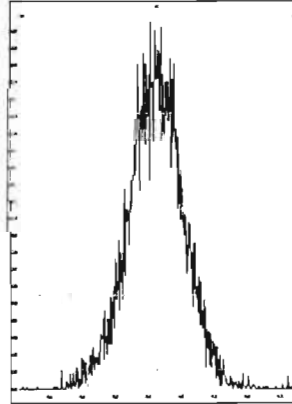
M 392.9760 R 11361



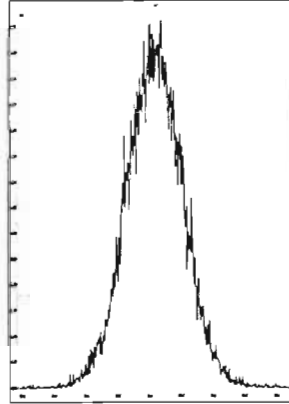
M 404.9760 R 11111



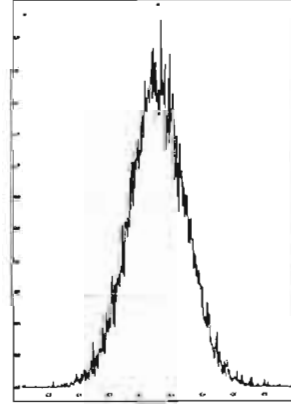
M 416.9760 R 11113



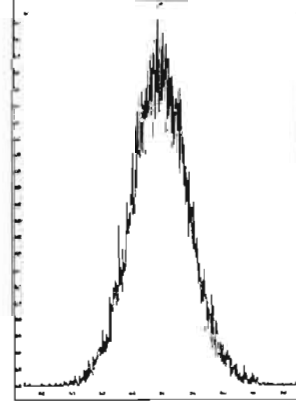
M 430.9728 R 10505



M 442.9728 R 10778



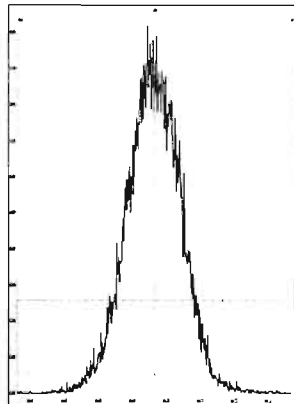
M 454.9728 R 10041



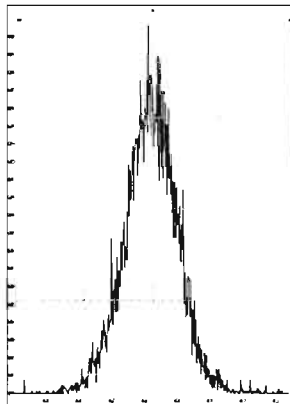
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Sunday, December 20, 2020 09:14:43 Pacific Standard Time

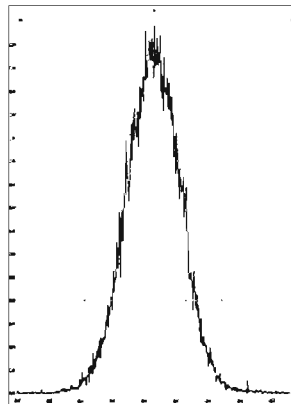
M 404.9760 R 11161



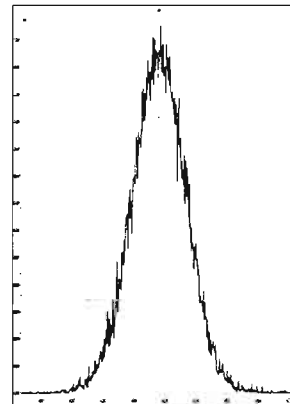
M 416.9760 R 12076



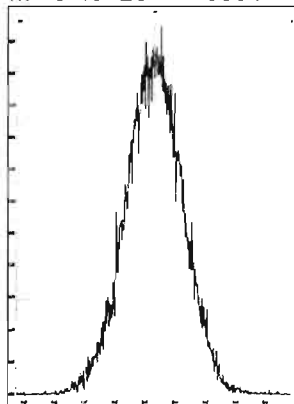
M 430.9728 R 10871



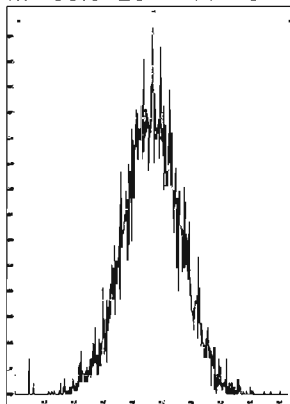
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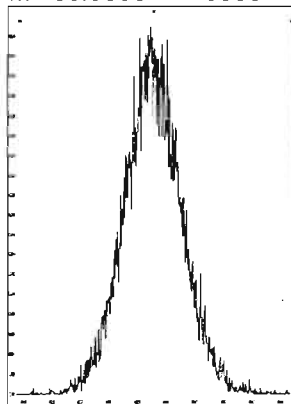
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M 466.9728 R 11415



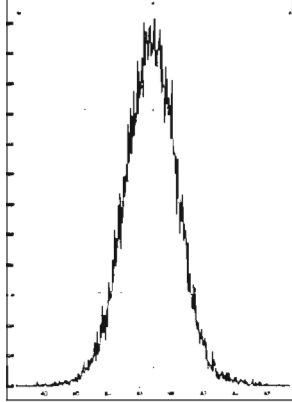
M 480.9696 R 10685



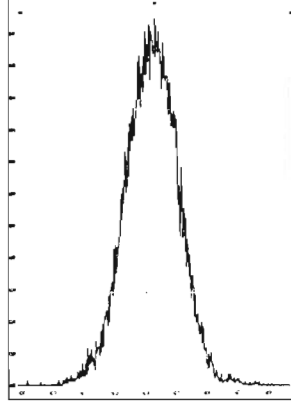
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Printed: Sunday, December 20, 2020 09:15:04 Pacific Standard Time

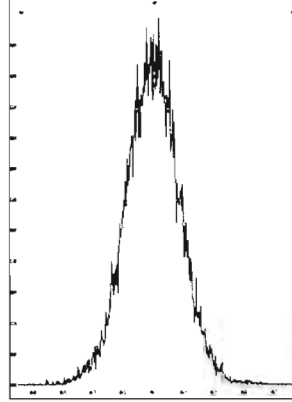
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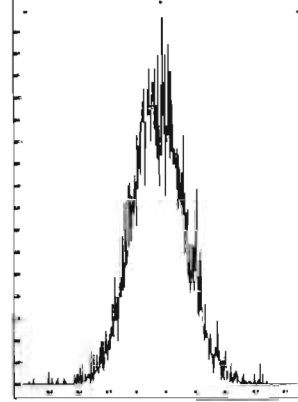
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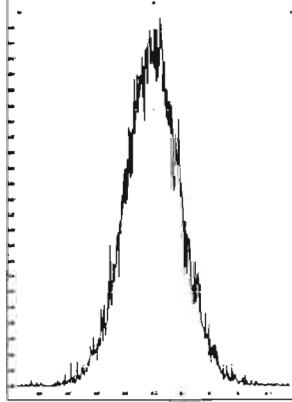
M 454.9728 R 10869



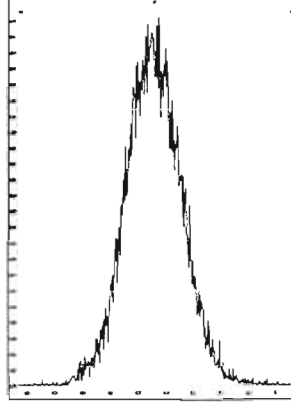
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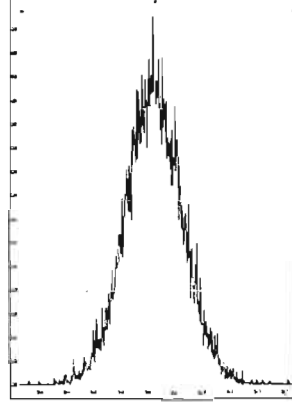
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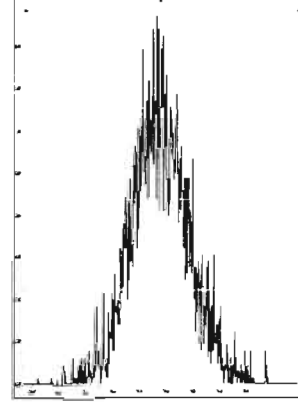
M 492.9696 R 10419



M 504.9696 R 10591



M 516.9697 R 11904



Dataset: Untitled

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Printed: Monday, December 21, 2020 07:00:35 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: 201220R1_2, Date: 20-Dec-2020, Time: 09:15:58, ID: ST201220R1_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

#	Name	RT
1	1,3,6,8-TCDD (First)	22.46
2	1,2,8,9-TCDD (Last)	27.21
3	1,2,4,7,9-PeCDD (First)	28.76
4	1,2,3,8,9-PeCDD (Last)	31.36
5	1,2,4,6,7,9-HxCDD (First)	32.67
6	1,2,3,7,8,9-HxCDD (Last)	34.70
7	1,2,3,4,6,7,9-HpCDD (First)	37.14
8	1,2,3,4,6,7,8-HpCDD (Last)	38.17
9	1,3,6,8-TCDF (First)	20.21
10	1,2,8,9-TCDF (Last)	27.52
11	1,3,4,6,8-PeCDF (First)	27.09
12	1,2,3,8,9-PeCDF (Last)	31.73
13	1,2,3,4,6,8-HxCDF (First)	32.15
14	1,2,3,7,8,9-HxCDF (Last)	35.20
15	1,2,3,4,6,7,8-HpCDF (First)	36.75
16	1,2,3,4,7,8,9-HpCDF (Last)	38.78

Dataset: Untitled

Last Altered: Monday, December 21, 2020 07:00:14 Pacific Standard Time
Printed: Monday, December 21, 2020 07:00:35 Pacific Standard Time

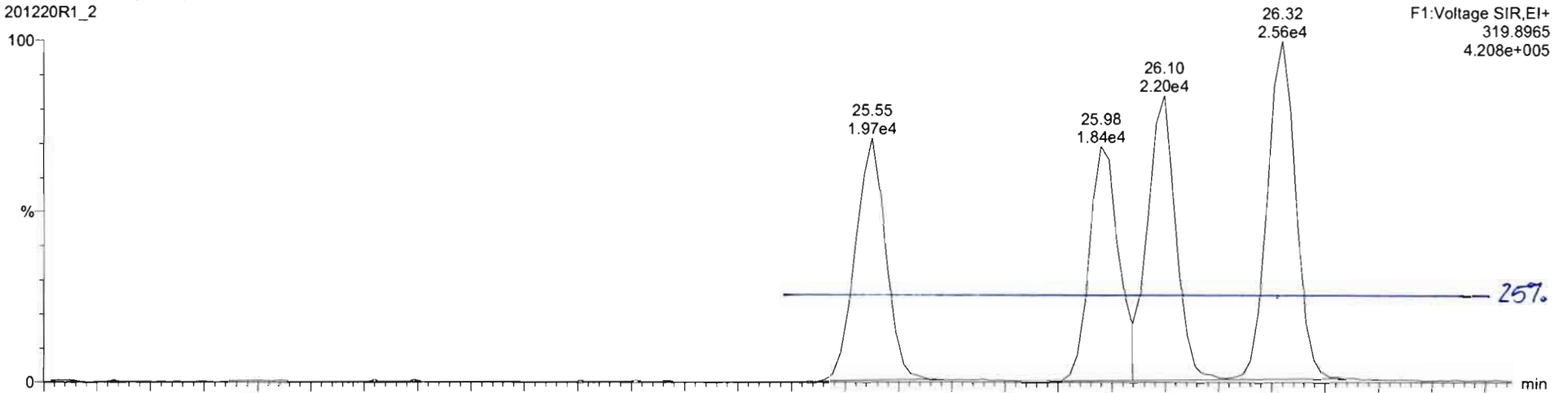
GRB 12/21/2020
HN 12/21/2020

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

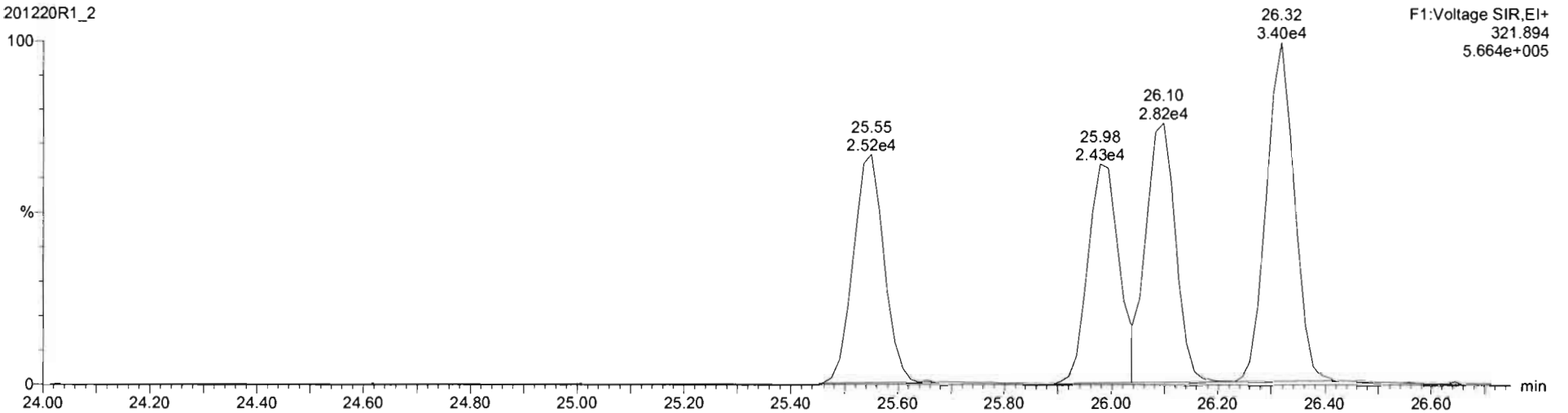
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1,3,6,8-TCDD (First)

201220R1_2



201220R1_2



Dataset: Untitled

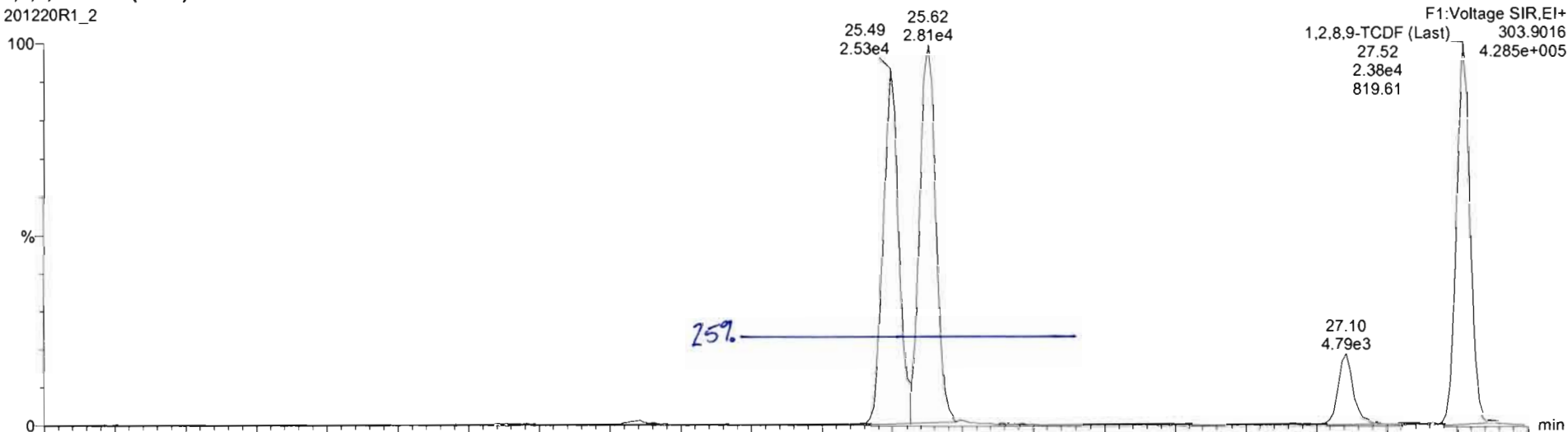
Last Altered: Monday, December 21, 2020 07:00:14 Pacific Standard Time
Printed: Monday, December 21, 2020 07:00:35 Pacific Standard Time

GRB 12/21/2020
HN 12/21/2020

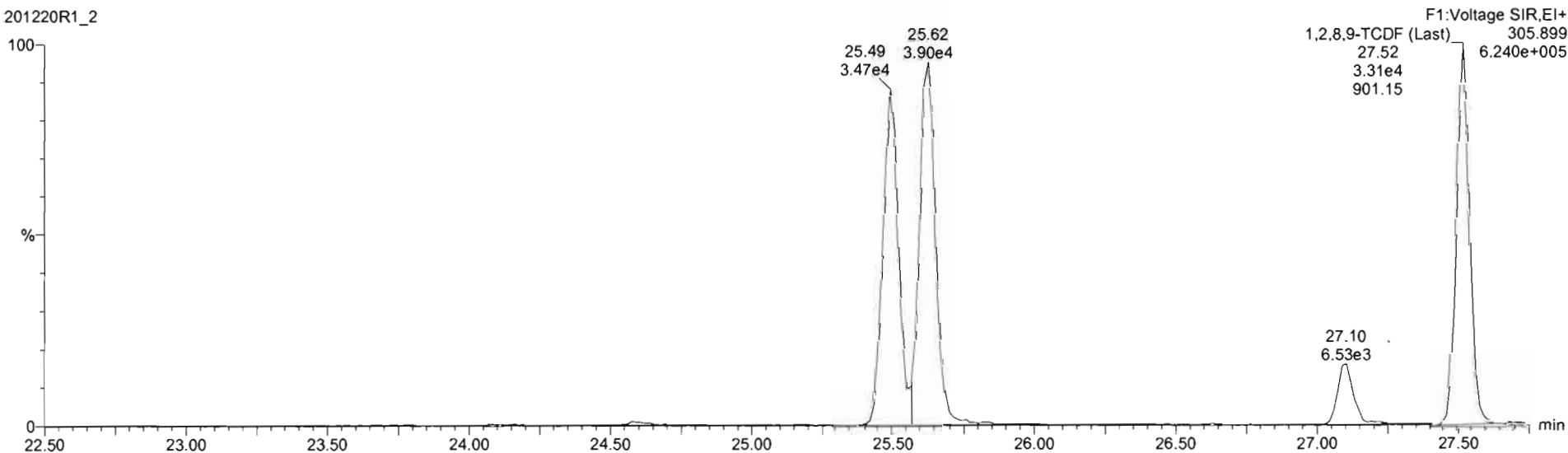
Name: 201220R1_2, Date: 20-Dec-2020, Time: 09:15:58, ID: ST201220R1_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

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

201220R1_2



201220R1_2



Dataset: Untitled

Last Altered: Monday, December 21, 2020 06:50:00 Pacific Standard Time

Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

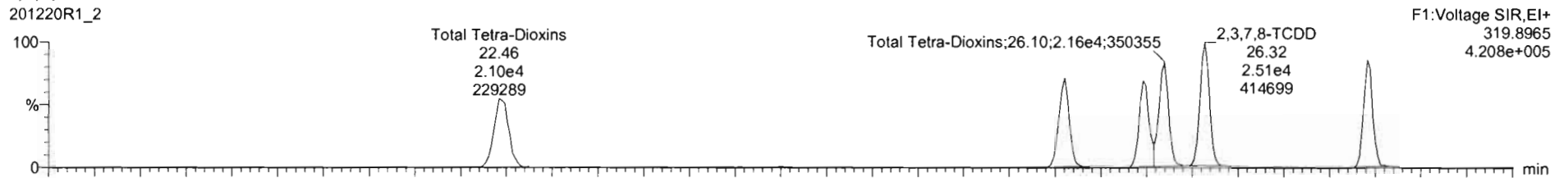
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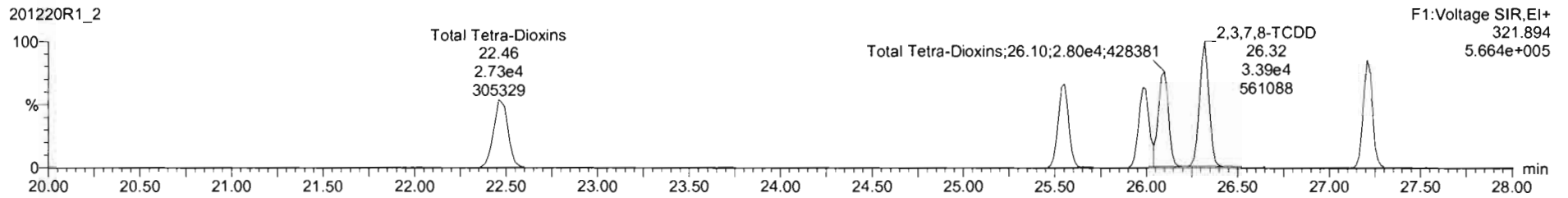
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2,3,7,8-TCDD

201220R1_2

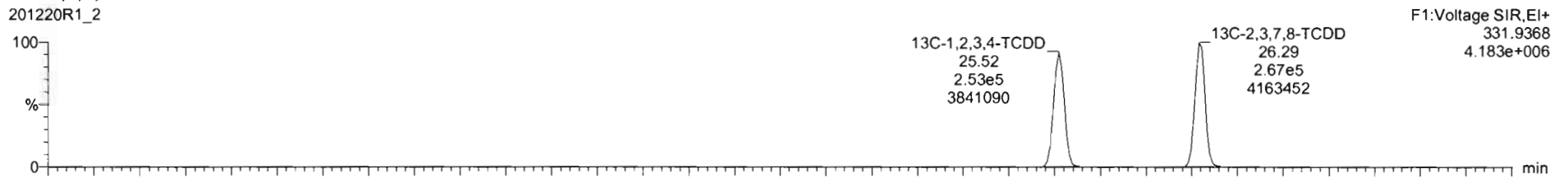


201220R1_2

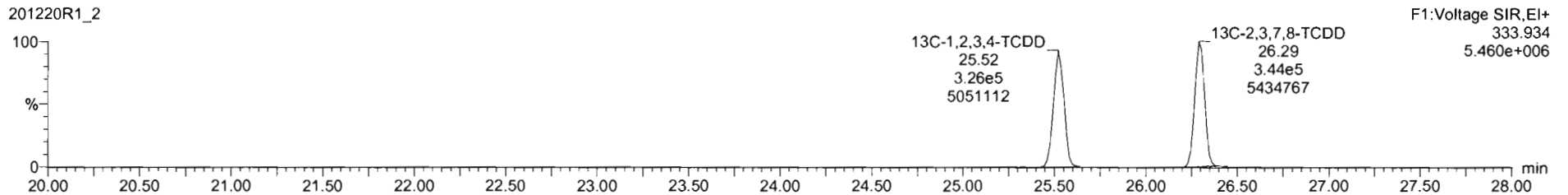


13C-2,3,7,8-TCDD

201220R1_2



201220R1_2



Dataset: Untitled

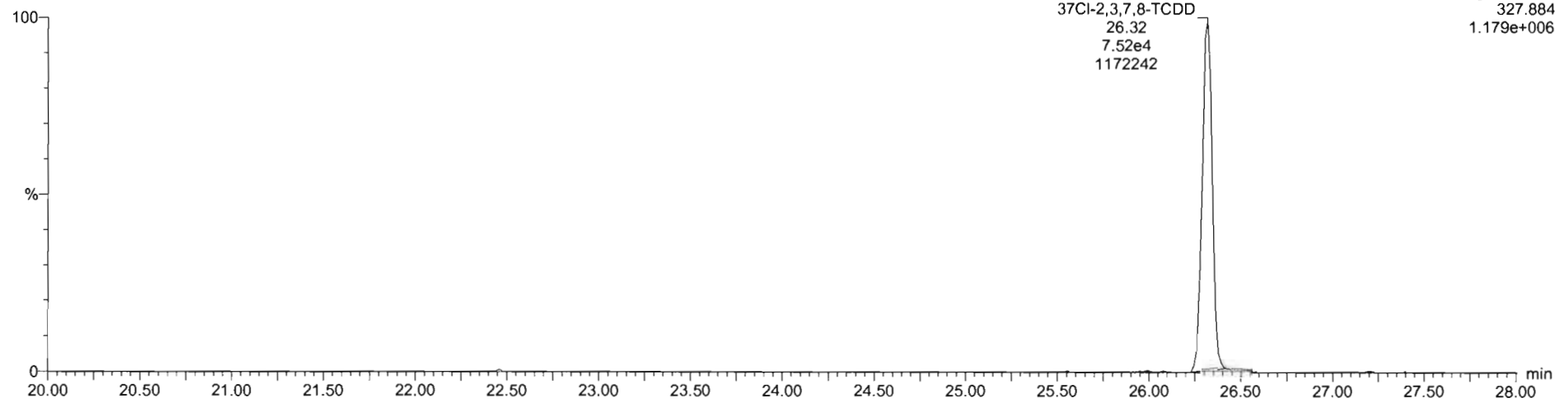
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Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

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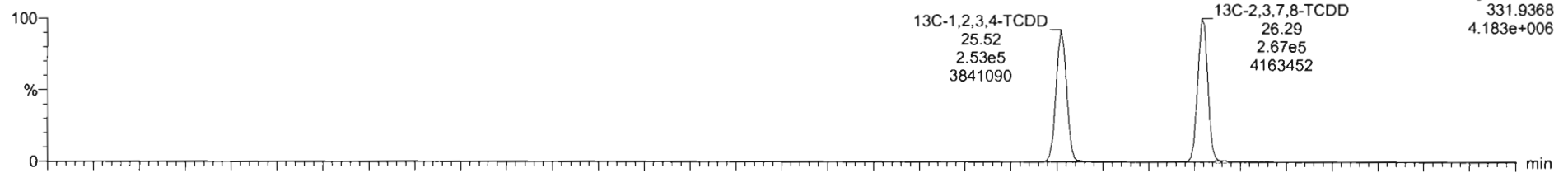
37Cl-2,3,7,8-TCDD

201220R1_2

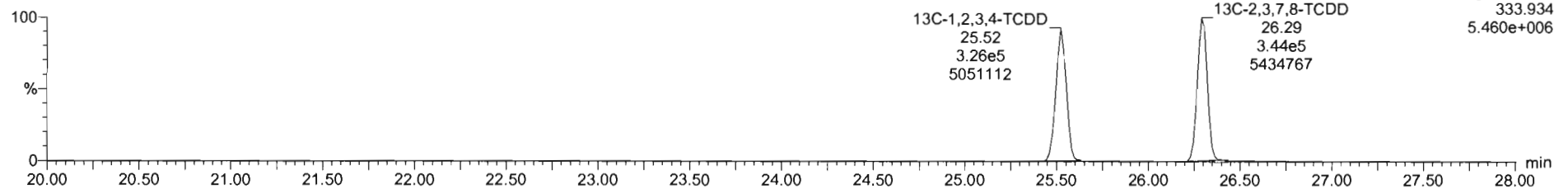


13C-1,2,3,4-TCDD

201220R1_2



201220R1_2



Dataset: Untitled

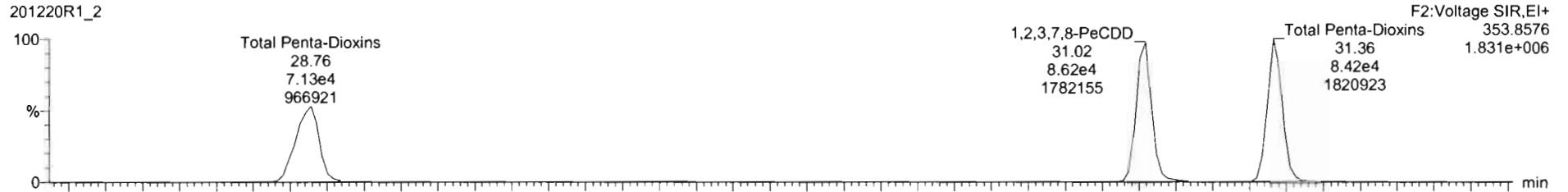
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Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

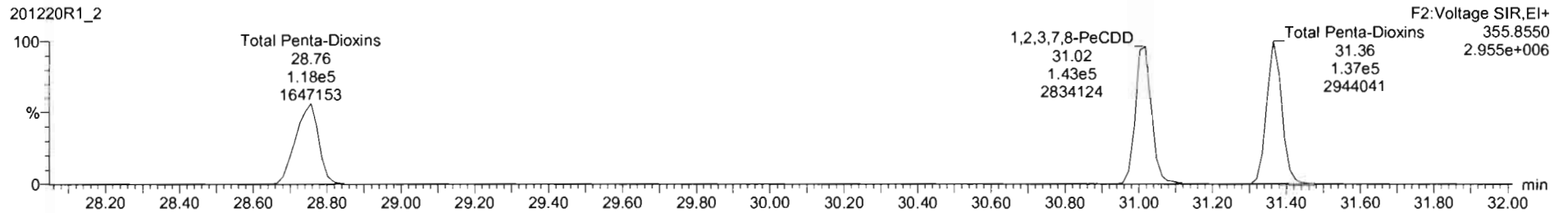
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1,2,3,7,8-PeCDD

201220R1_2

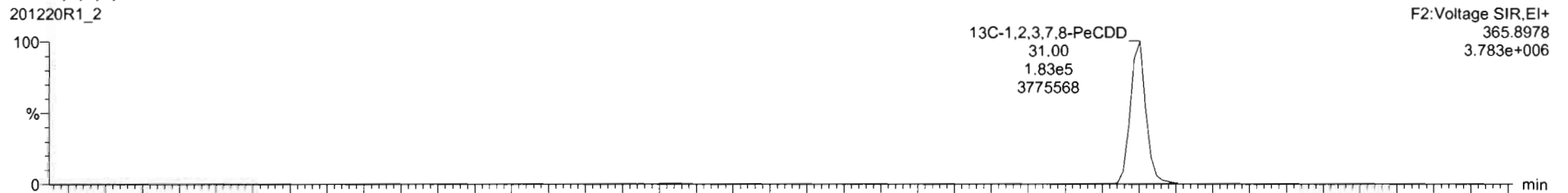


201220R1_2

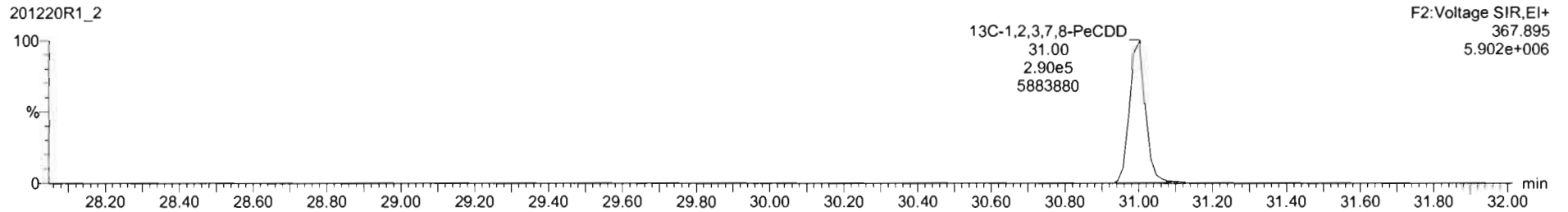


13C-1,2,3,7,8-PeCDD

201220R1_2



201220R1_2



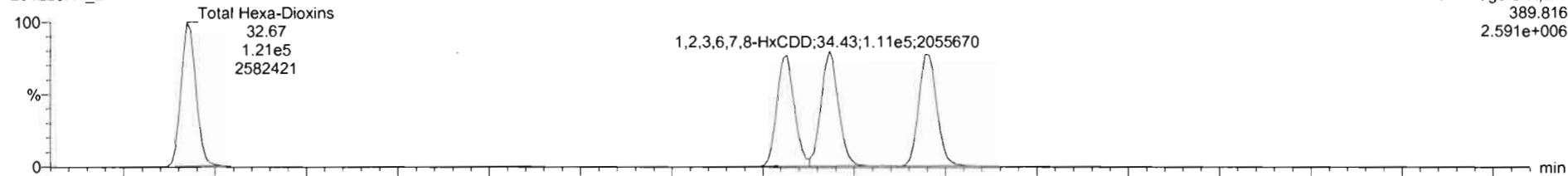
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Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

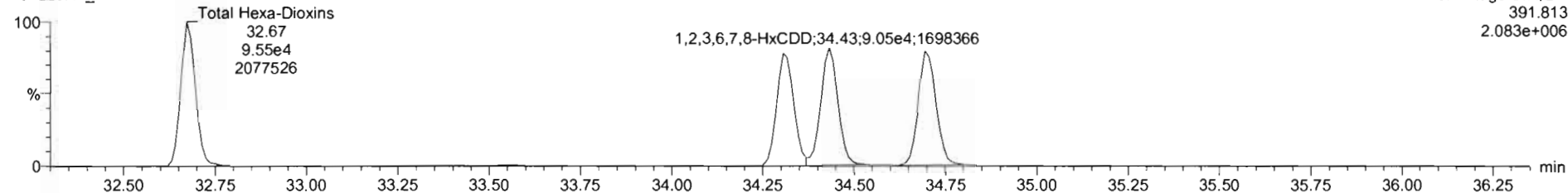
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1,2,3,4,7,8-HxCDD

201220R1_2

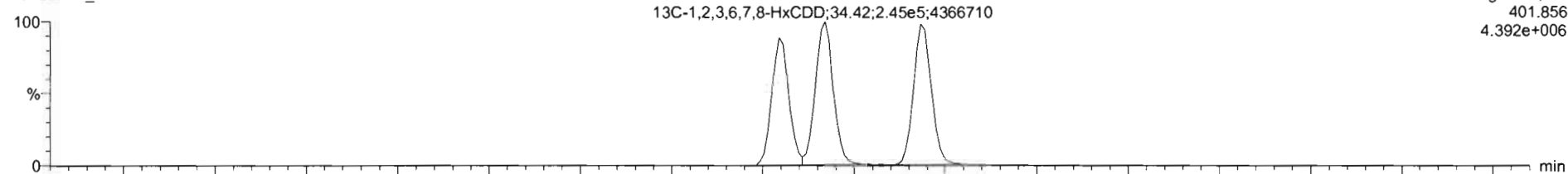


201220R1_2

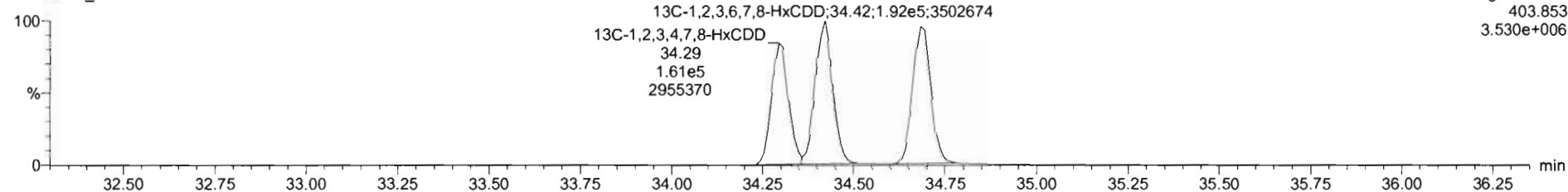


13C-1,2,3,4,7,8-HxCDD

201220R1_2



201220R1_2



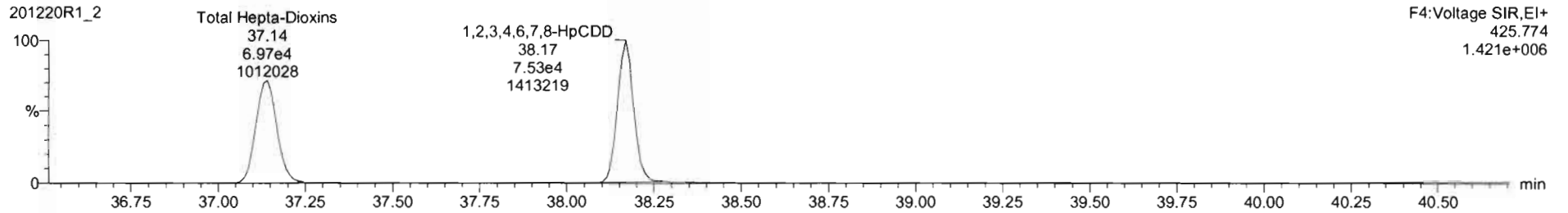
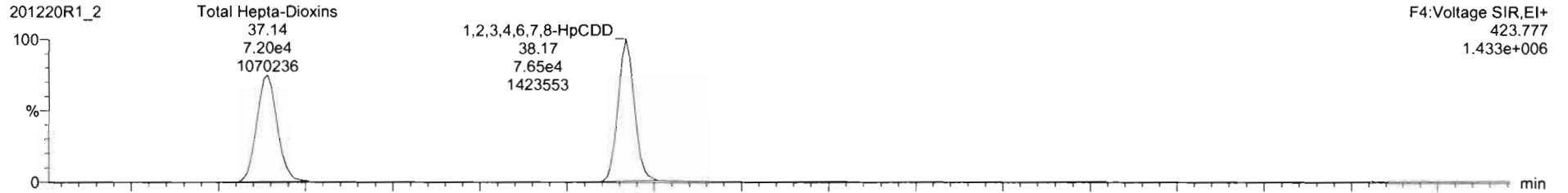
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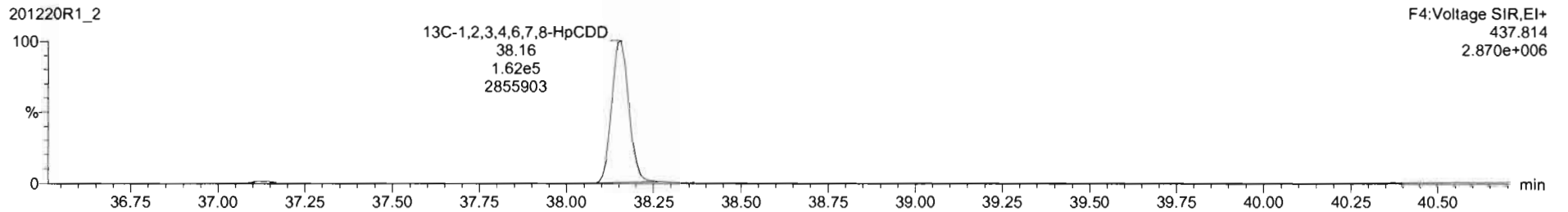
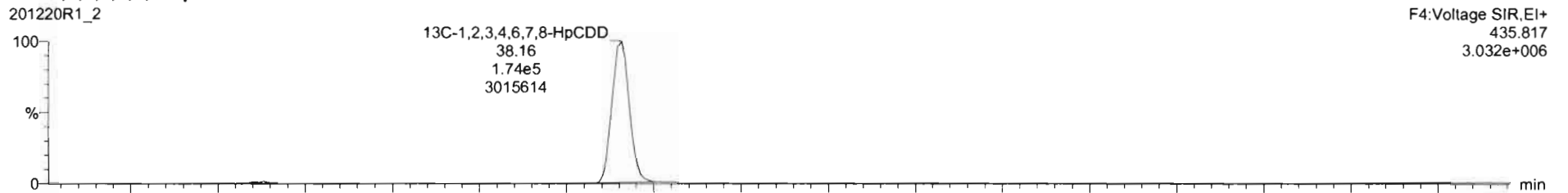
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1,2,3,4,6,7,8-HpCDD



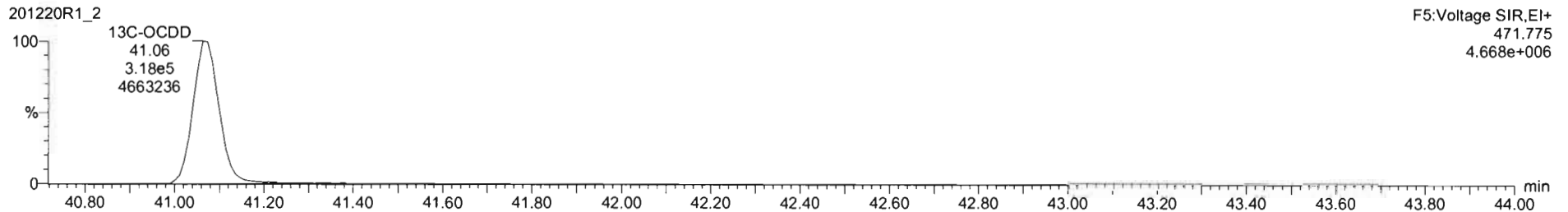
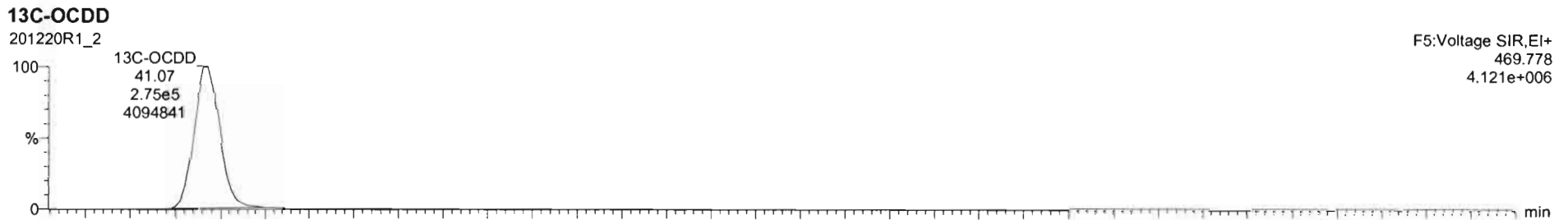
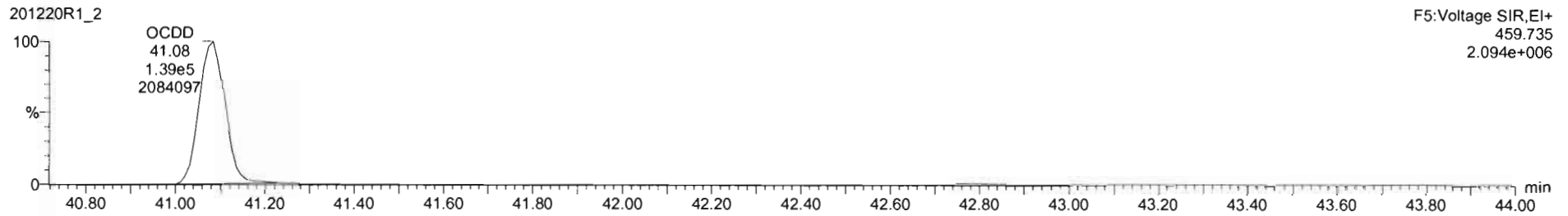
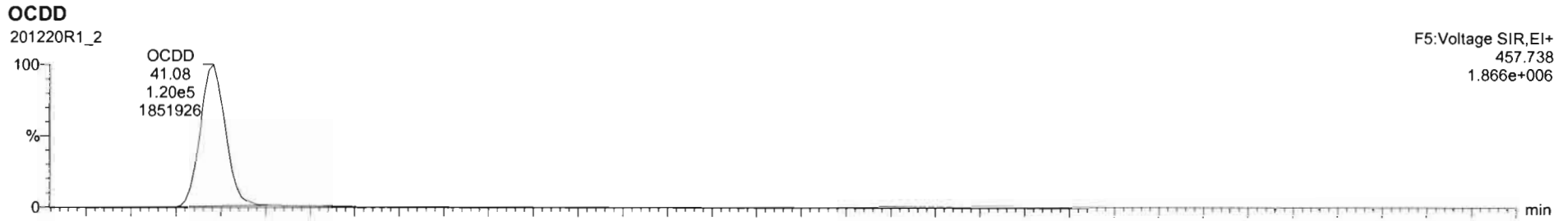
13C-1,2,3,4,6,7,8-HpCDD



Dataset: Untitled

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Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

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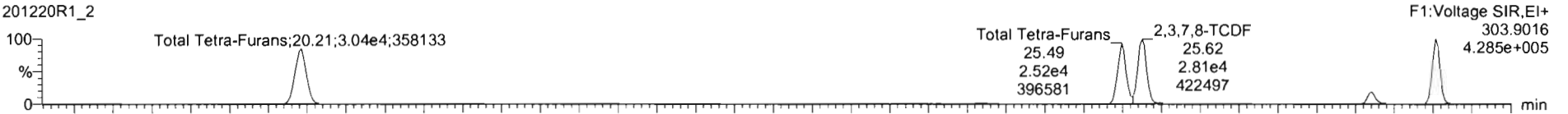
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Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

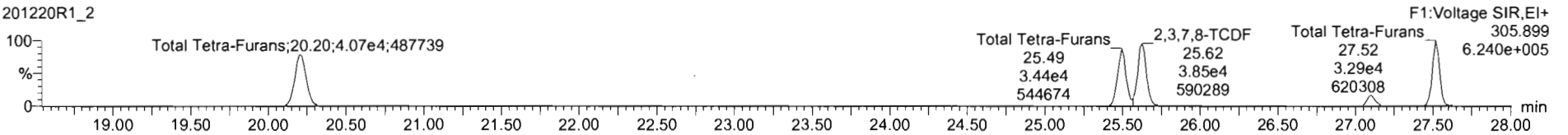
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2,3,7,8-TCDF

201220R1_2

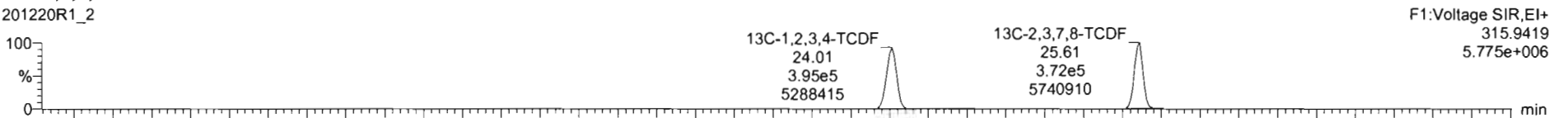


201220R1_2

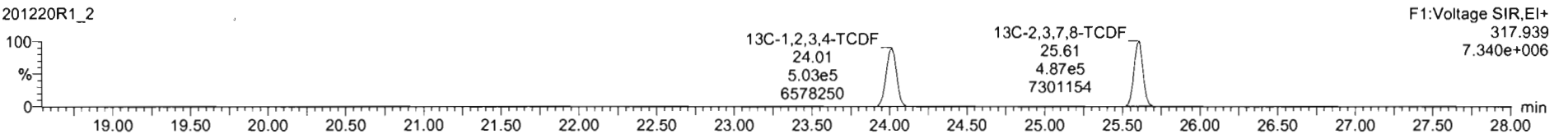


13C-2,3,7,8-TCDF

201220R1_2

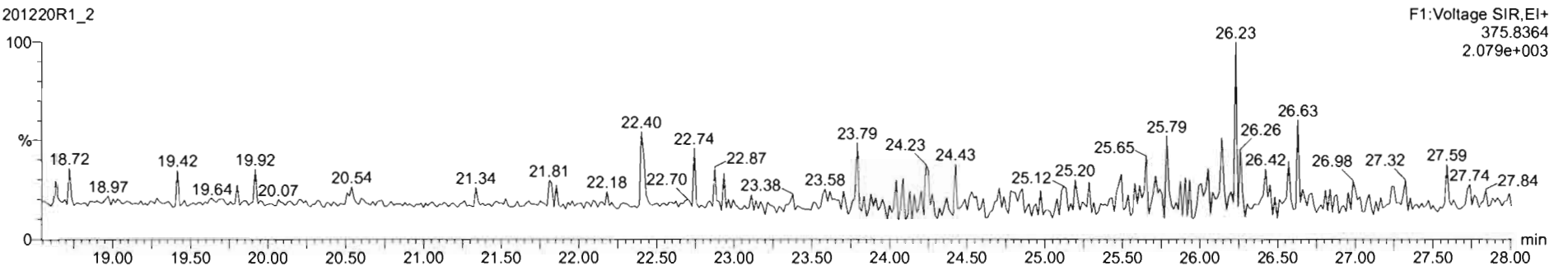


201220R1_2



DPE1

201220R1_2



Dataset: Untitled

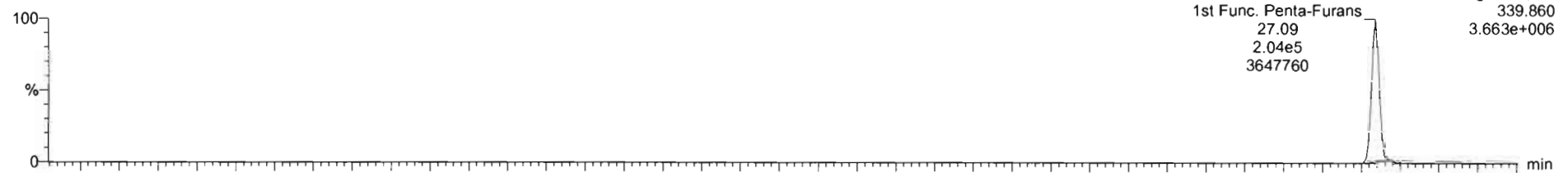
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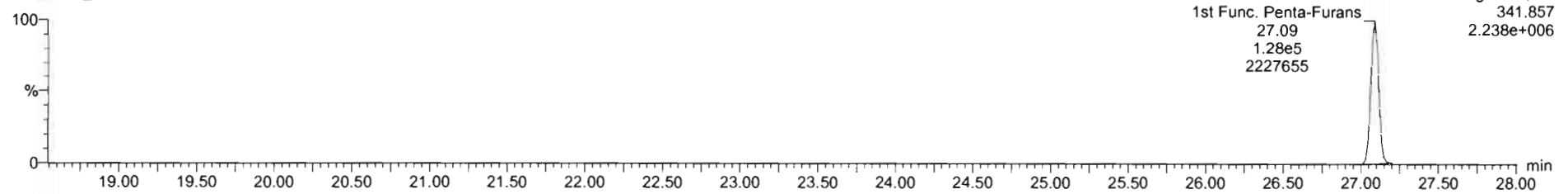
Name: 201220R1_2, Date: 20-Dec-2020, Time: 09:15:58, ID: ST201220R1_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

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201220R1_2

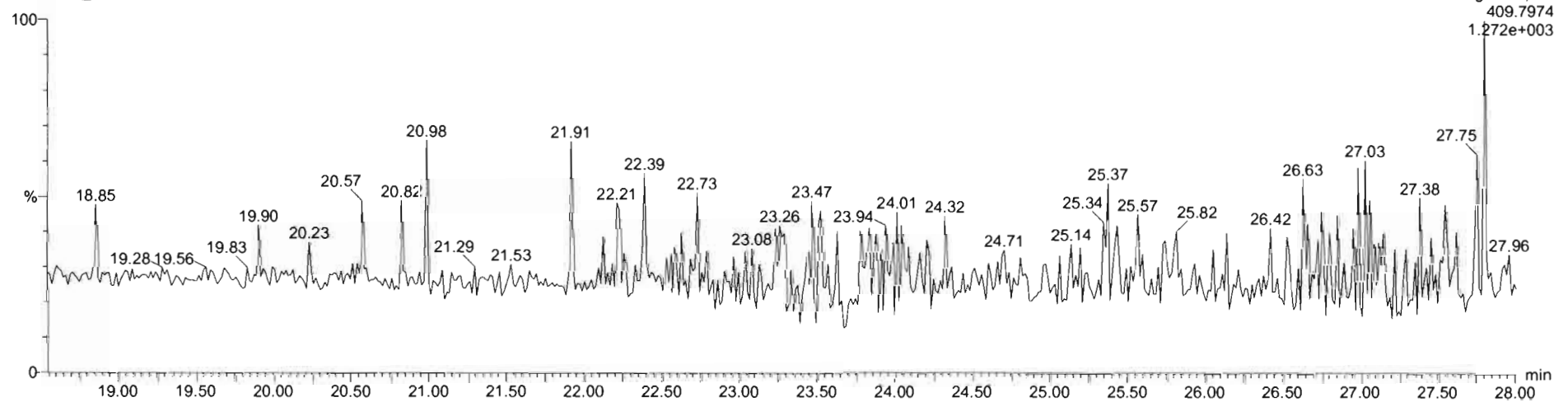


201220R1_2



DPE6

201220R1_2



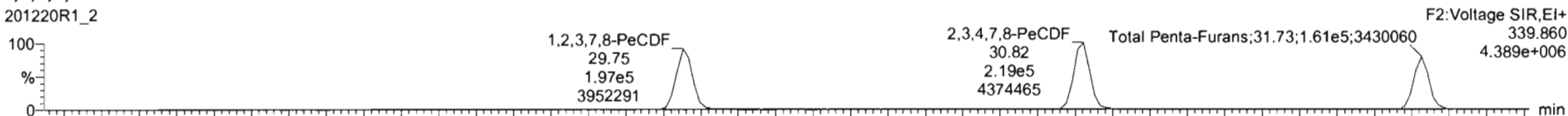
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Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

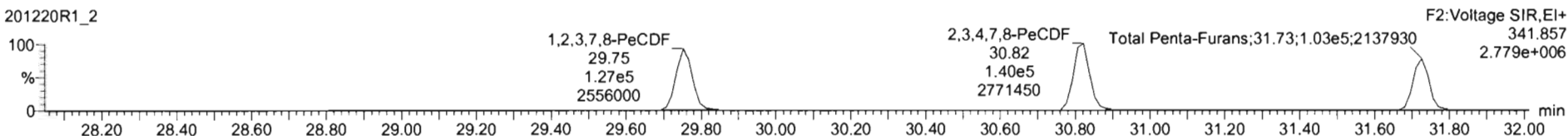
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1,2,3,7,8-PeCDF

201220R1_2



201220R1_2

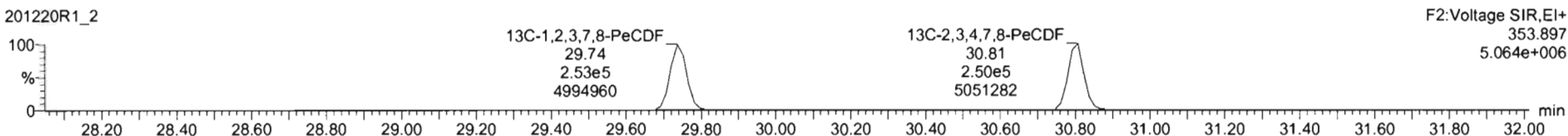


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201220R1_2

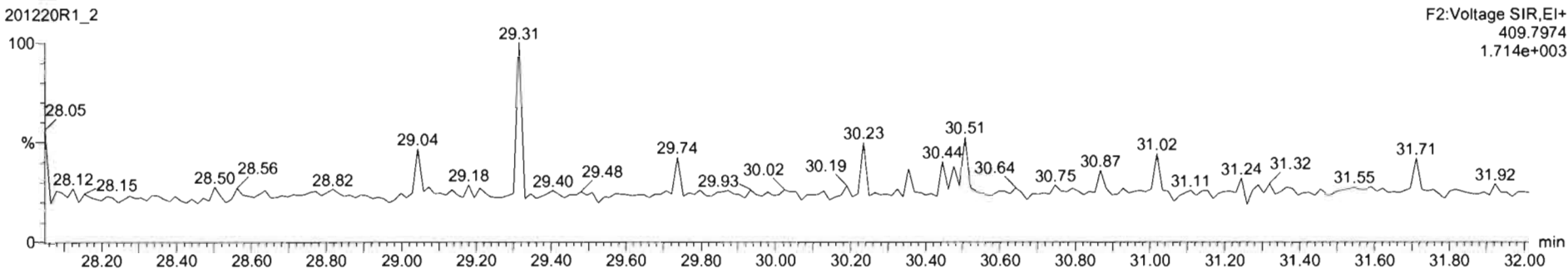


201220R1_2



DPE2

201220R1_2



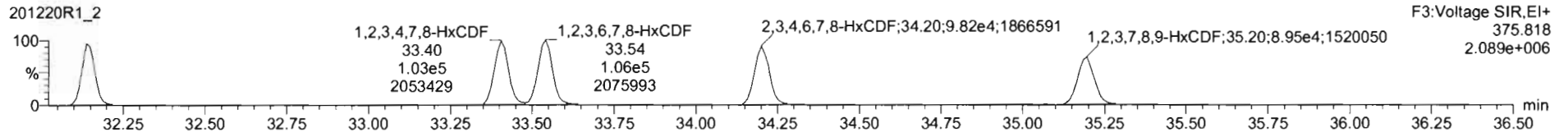
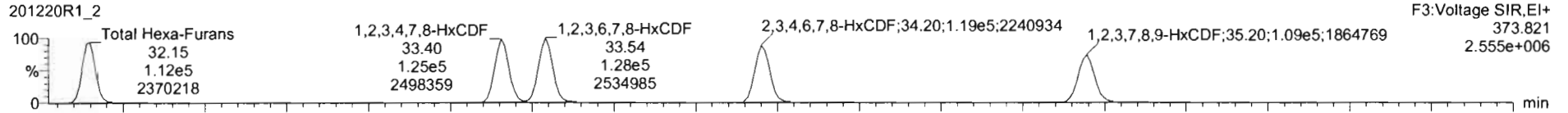
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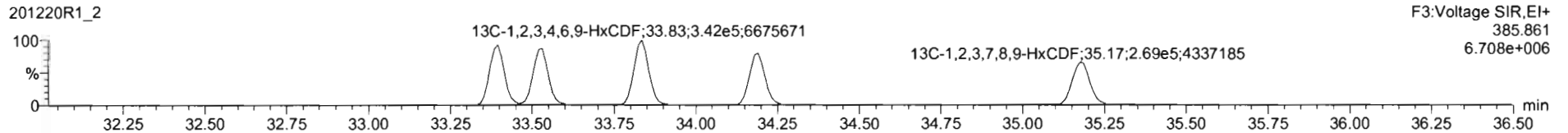
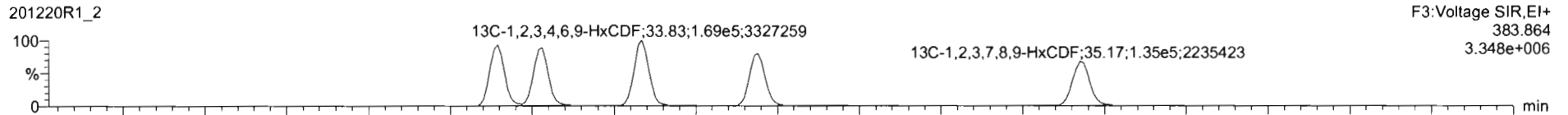
Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

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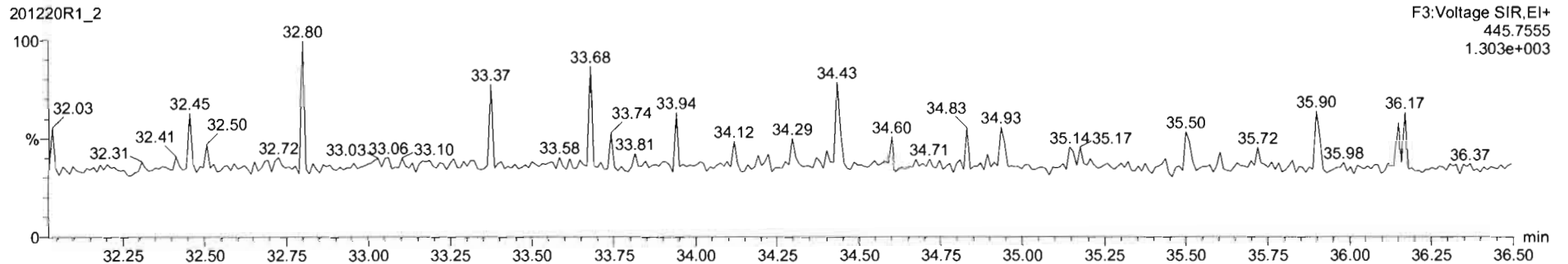
1,2,3,4,7,8-HxCDF



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



DPE3



Dataset: Untitled

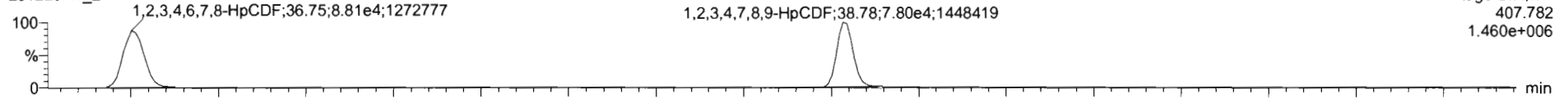
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Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

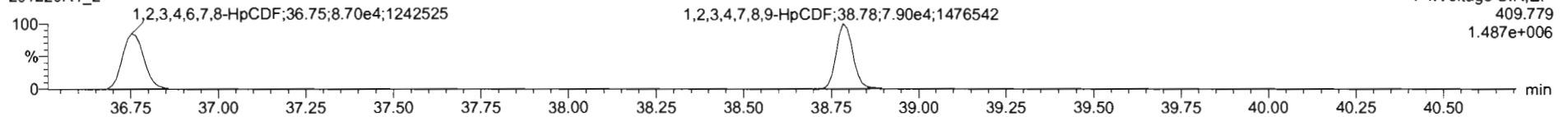
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1,2,3,4,6,7,8-HpCDF

201220R1_2

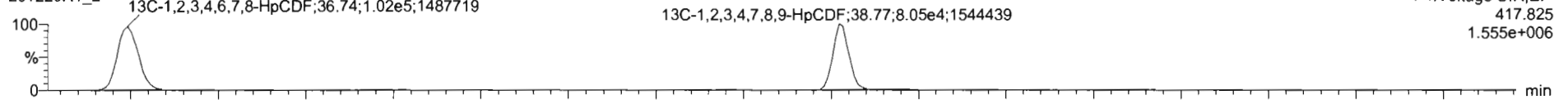


201220R1_2

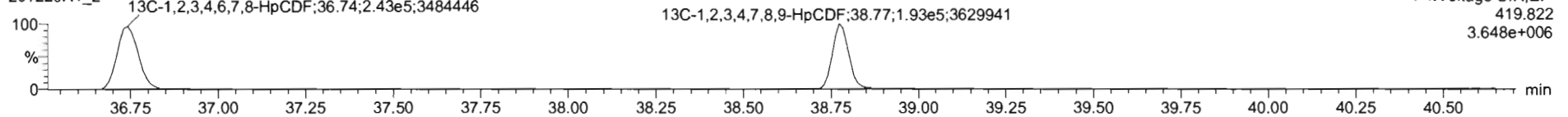


13C-1,2,3,4,6,7,8-HpCDF

201220R1_2

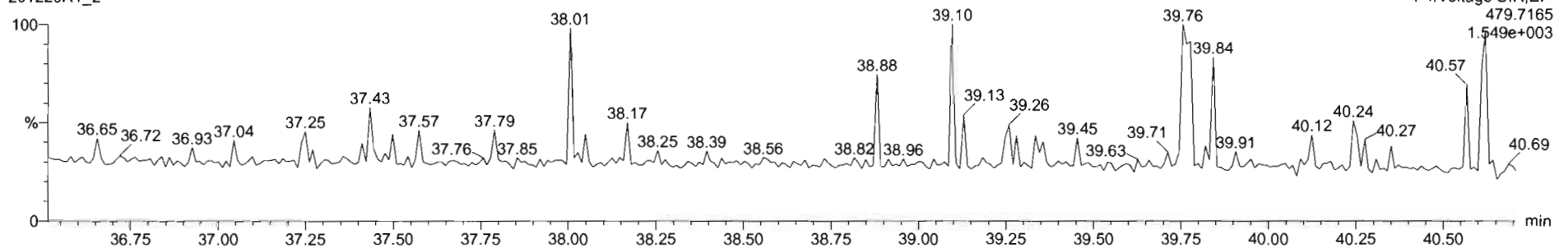


201220R1_2



DPE4

201220R1_2



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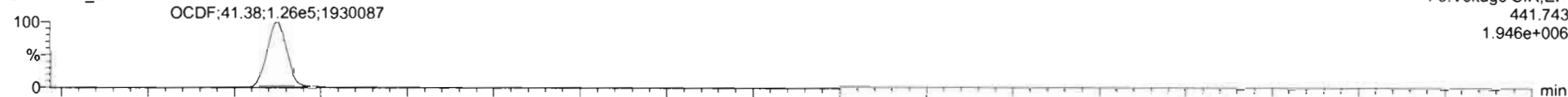
Last Altered: Monday, December 21, 2020 06:50:00 Pacific Standard Time

Printed: Monday, December 21, 2020 06:50:49 Pacific Standard Time

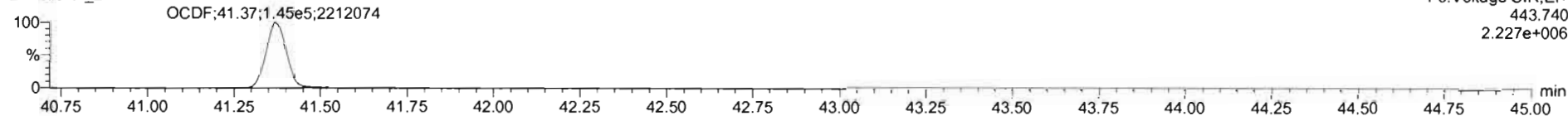
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OCDF

201220R1_2

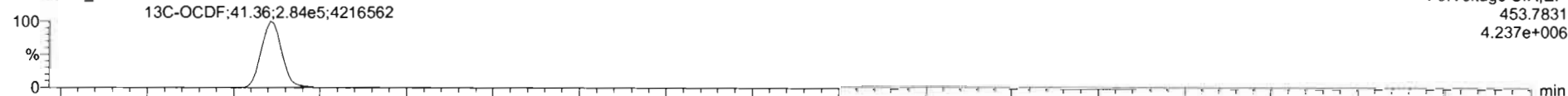


201220R1_2

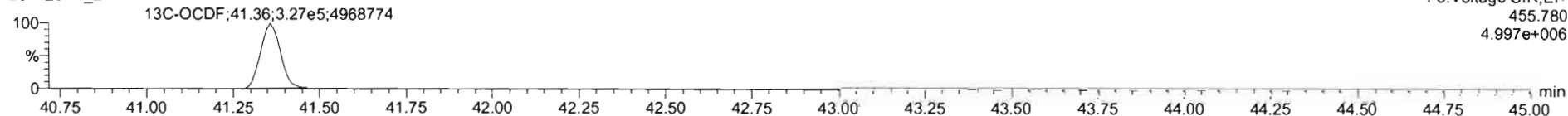


13C-OCDF

201220R1_2

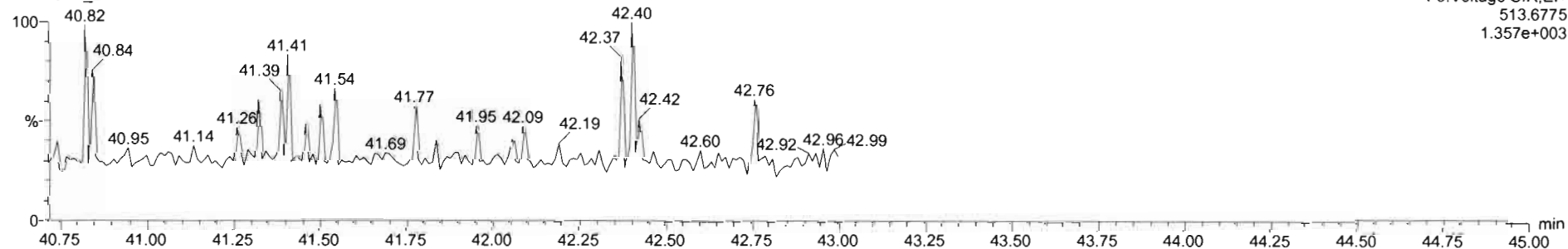


201220R1_2



DPE5

201220R1_2



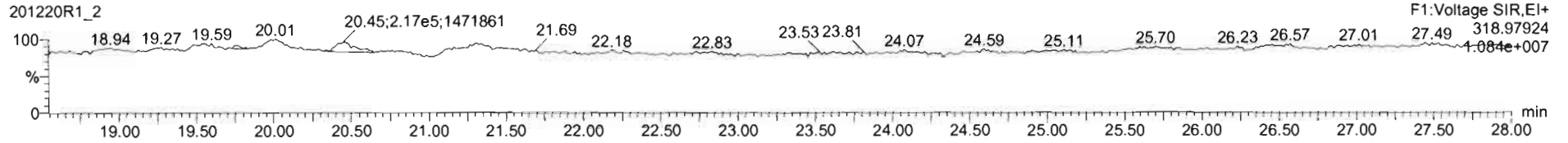
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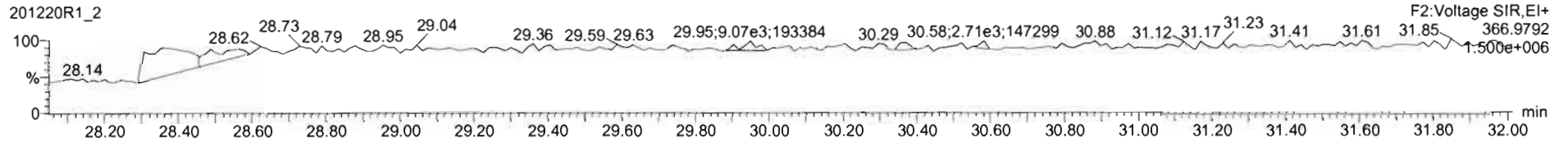
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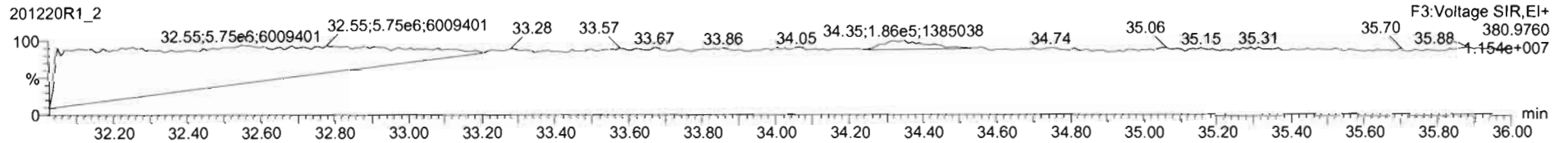
PFK1



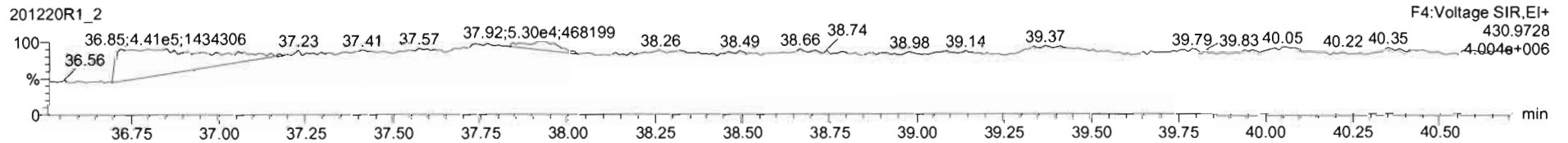
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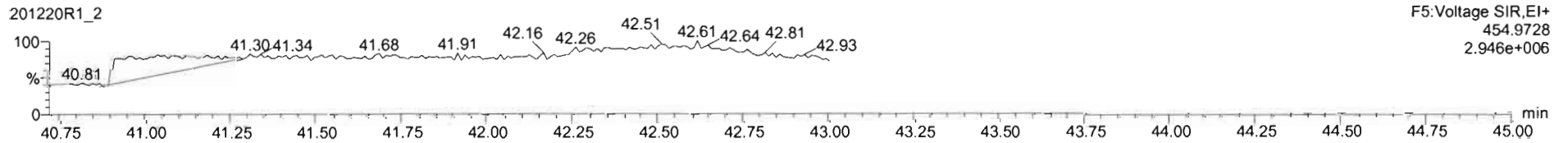
PFK3



PFK4

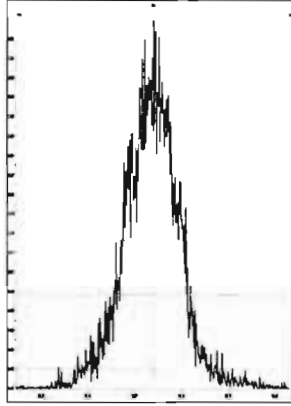


PFK5

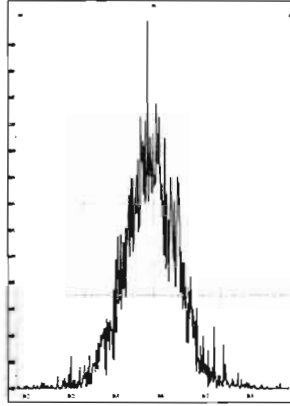


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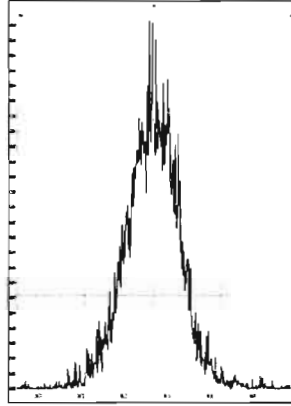
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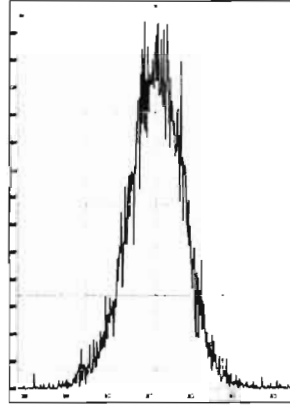
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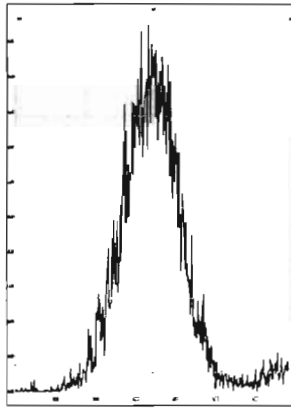
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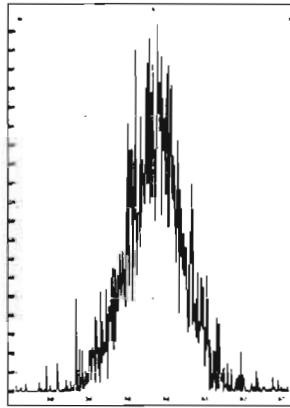
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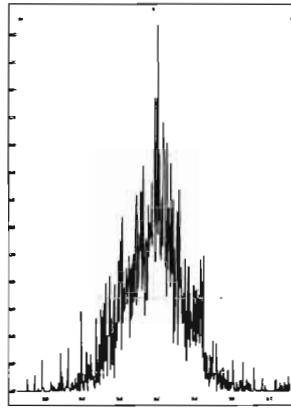
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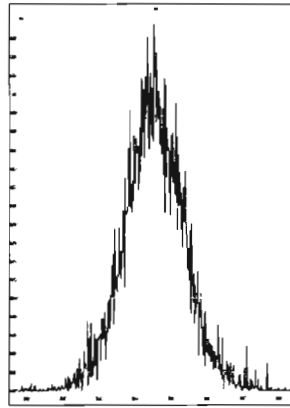
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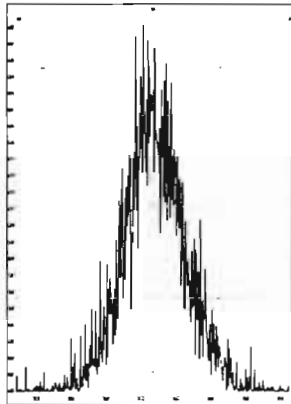
M 366.9792 R 12789



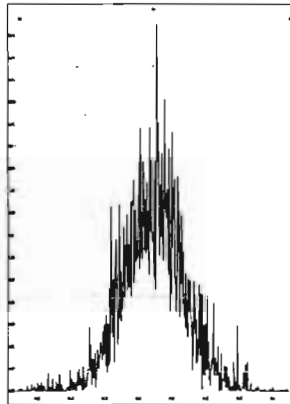
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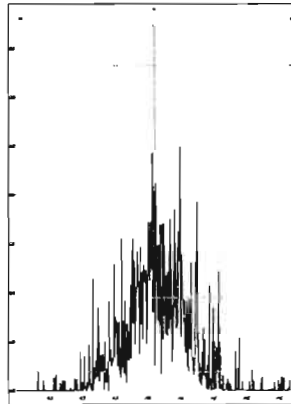
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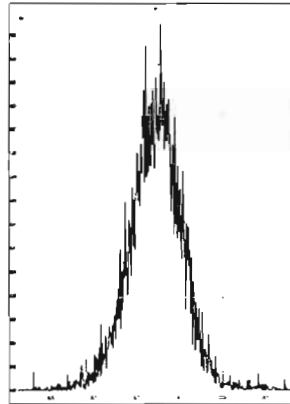
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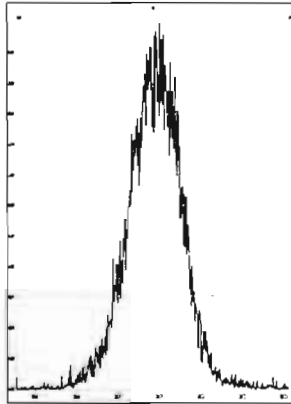
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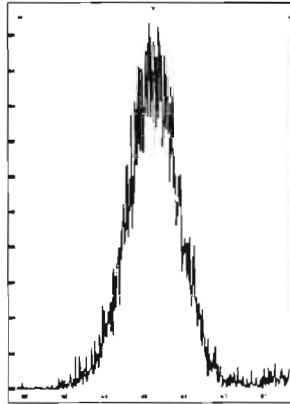
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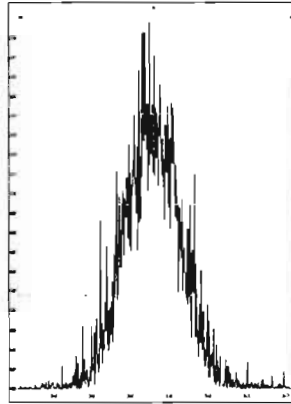
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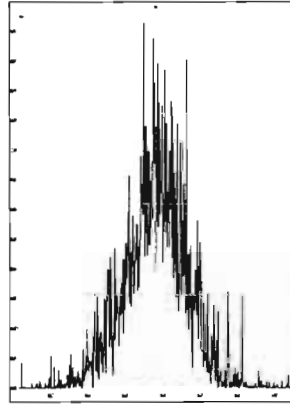
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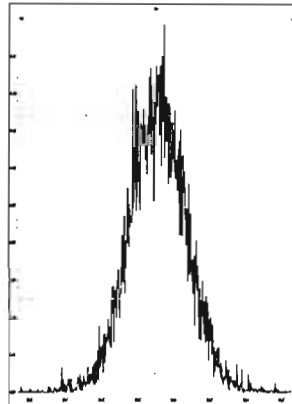
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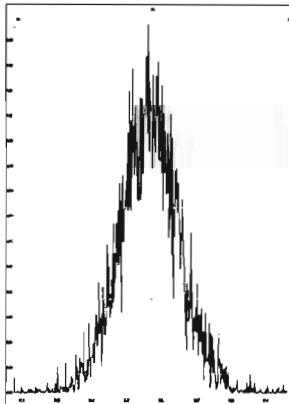
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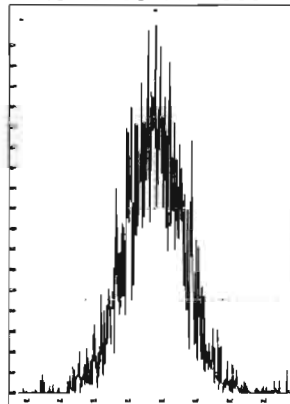
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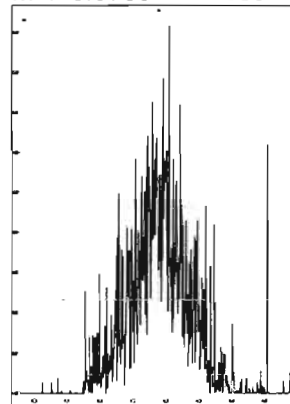
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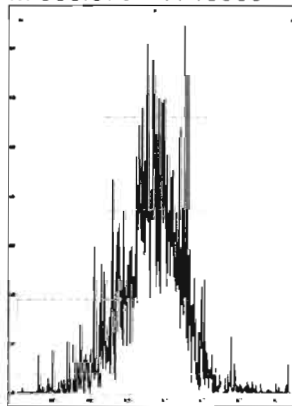
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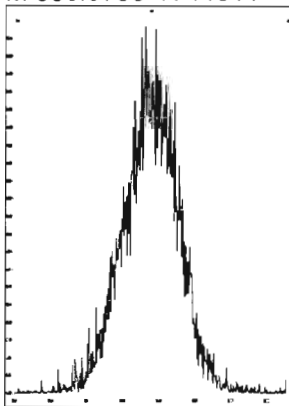
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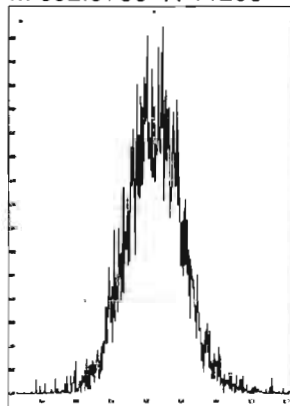
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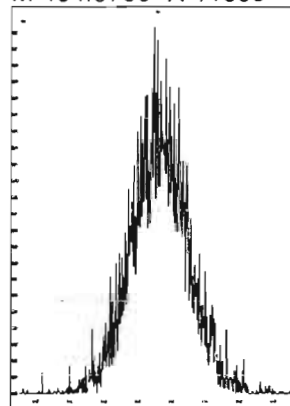
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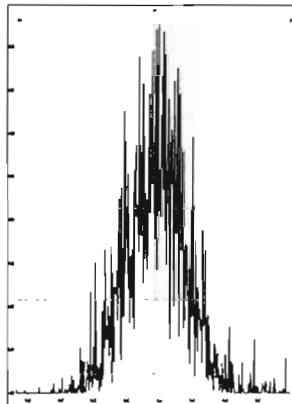
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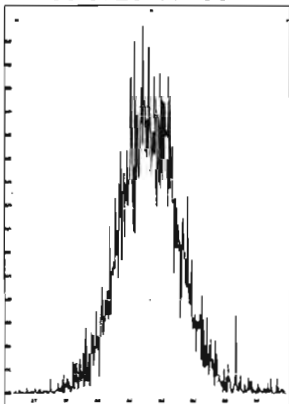
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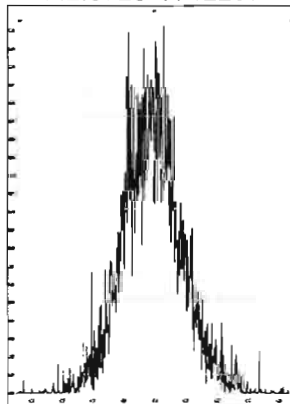
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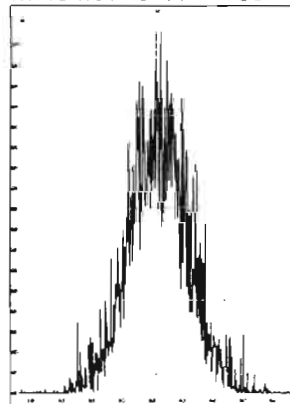
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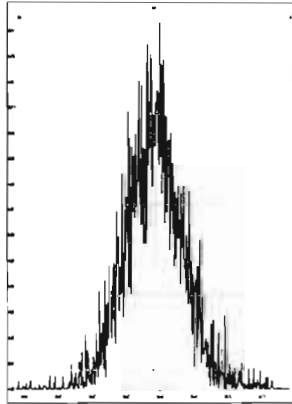
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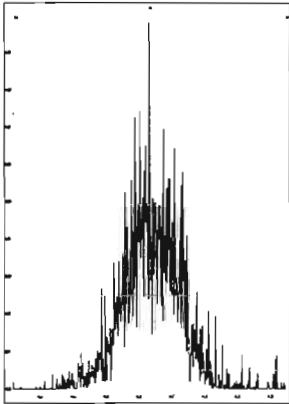
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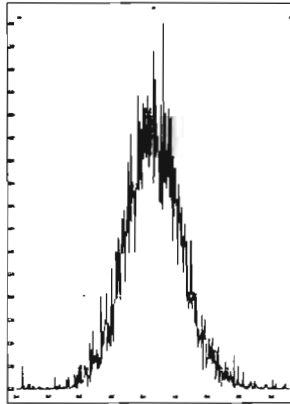
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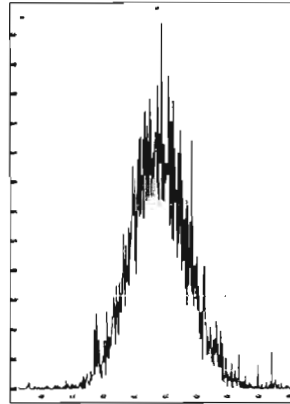
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M 430.9728 R 11135

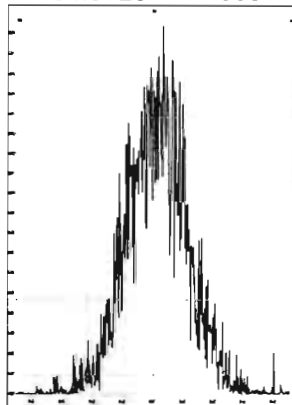


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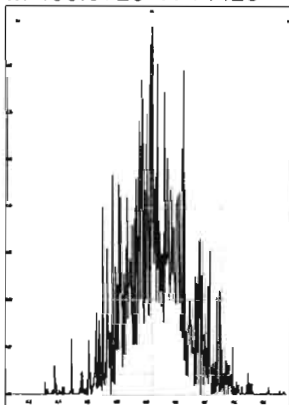


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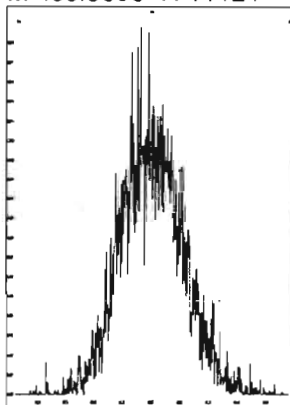
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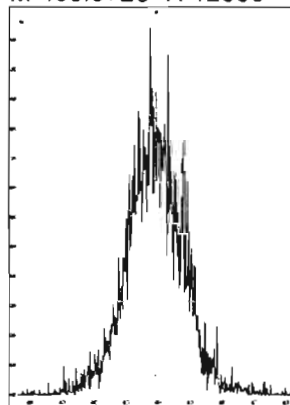
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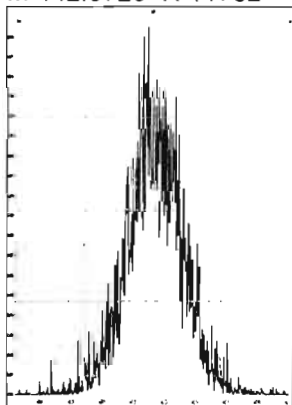
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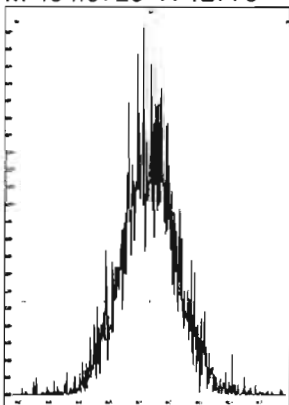
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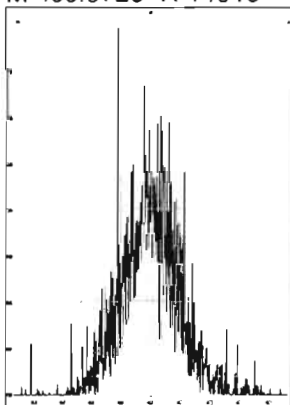
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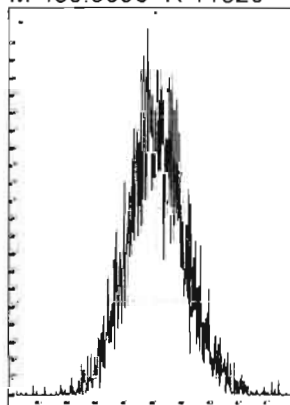
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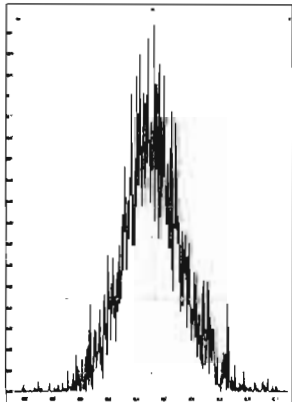
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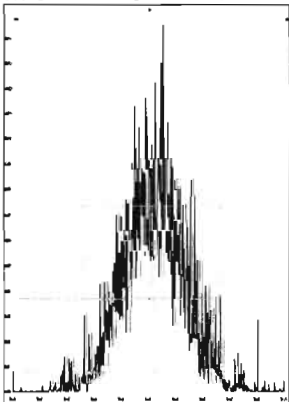
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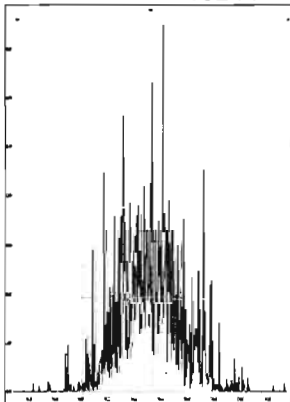
M 492.9696 R 12511



M 504.9696 R 10377



M 516.9697 R 16244



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST201221R1-1

Reviewed By: GRB 12/22/2020

Initials & Date

End Calibration ID: ST201221R-3

	<u>Beg.</u>	<u>End</u>		<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Mass resolution \geq	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K 1614 1699 429 1613/1668/8280		
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GC Break <20% NA		
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>8280 CS1 End Standard:</u>		
Verification Std. named correctly?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		NA
(ST-Year-Month-Day-VG ID)					
Forms signed and dated?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Comments:		
Correct ICAL referenced?	<u>FIN</u>	<u>FIN</u>			
<u>Run Log:</u>					
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
- Samples within 12 hour clock?	<input checked="" type="checkbox"/>	N			
- Bottle position verified?	<u>FIN</u>				

Dataset: U:\VG12.PRO\Results\201221R1\201221R1-1.qld

Last Altered: Monday, December 21, 2020 08:11:17 Pacific Standard Time

Printed: Monday, December 21, 2020 12:36:34 Pacific Standard Time

FIN 12/21/2020

GRB 12/22/2020

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: 201221R1_1, Date: 21-Dec-2020, Time: 07:25:05, ID: ST201221R1_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	7.62e4	7.94e5	0.76	NO	0.980	26.34	26.33	NO	1.001	1.001	9.7949	97.9	NO
2	2 1,2,3,7,8-PeCDD	2.81e5	5.86e5	0.60	NO	0.932	31.05	31.03	NO	1.001	1.000	51.438	103	NO
3	3 1,2,3,4,7,8-HxCDD	2.45e5	4.73e5	1.24	NO	1.02	34.34	34.34	NO	1.001	1.001	50.828	102	NO
4	4 1,2,3,6,7,8-HxCDD	2.48e5	5.44e5	1.25	NO	0.902	34.46	34.45	NO	1.001	1.000	50.617	101	NO
5	5 1,2,3,7,8,9-HxCDD	2.45e5	5.07e5	1.25	NO	0.954	34.72	34.72	NO	1.000	1.000	50.769	102	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.91e5	4.30e5	1.01	NO	0.918	38.20	38.20	NO	1.000	1.000	48.255	96.5	NO
7	7 OCDD	3.34e5	7.57e5	0.87	NO	0.866	41.11	41.12	NO	1.000	1.000	102.08	102	NO
8	8 2,3,7,8-TCDF	9.08e4	1.15e6	0.73	NO	0.848	25.63	25.64	NO	1.000	1.001	9.3191	93.2	NO
9	9 1,2,3,7,8-PeCDF	4.12e5	8.41e5	1.55	NO	0.960	29.75	29.77	NO	1.000	1.000	51.095	102	NO
10	10 2,3,4,7,8-PeCDF	4.32e5	7.94e5	1.55	NO	1.07	30.84	30.84	NO	1.001	1.000	50.993	102	NO
11	11 1,2,3,4,7,8-HxCDF	2.85e5	5.85e5	1.23	NO	0.986	33.42	33.43	NO	1.000	1.000	49.394	98.8	NO
12	12 1,2,3,6,7,8-HxCDF	3.03e5	5.97e5	1.22	NO	1.04	33.56	33.56	NO	1.001	1.001	48.829	97.7	NO
13	13 2,3,4,6,7,8-HxCDF	2.79e5	5.63e5	1.21	NO	1.02	34.23	34.22	NO	1.001	1.000	48.693	97.4	NO
14	14 1,2,3,7,8,9-HxCDF	2.46e5	5.19e5	1.23	NO	0.991	35.22	35.23	NO	1.000	1.001	47.830	95.7	NO
15	15 1,2,3,4,6,7,8-HpCDF	2.10e5	4.22e5	0.99	NO	1.05	36.79	36.78	NO	1.000	1.000	47.498	95.0	NO
16	16 1,2,3,4,7,8,9-HpCDF	2.02e5	3.51e5	1.00	NO	1.18	38.82	38.82	NO	1.000	1.000	48.815	97.6	NO
17	17 OCDF	3.81e5	8.57e5	0.87	NO	0.896	41.40	41.40	NO	1.000	1.000	99.110	99.1	NO
18	18 13C-2,3,7,8-TCDD	7.94e5	8.59e5	0.79	NO	1.06	26.31	26.31	NO	1.030	1.030	87.526	87.5	NO
19	19 13C-1,2,3,7,8-PeCDD	5.86e5	8.59e5	0.64	NO	0.785	31.14	31.02	NO	1.219	1.215	86.969	87.0	NO
20	20 13C-1,2,3,4,7,8-HxCDD	4.73e5	6.73e5	1.27	NO	0.621	34.31	34.32	NO	1.014	1.014	113.26	113	NO
21	21 13C-1,2,3,6,7,8-HxCDD	5.44e5	6.73e5	1.26	NO	0.734	34.44	34.44	NO	1.017	1.017	110.07	110	NO
22	22 13C-1,2,3,7,8,9-HxCDD	5.07e5	6.73e5	1.23	NO	0.723	34.72	34.71	NO	1.026	1.025	104.23	104	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.30e5	6.73e5	1.05	NO	0.568	38.22	38.19	NO	1.129	1.128	112.65	113	NO
24	24 13C-OCDD	7.57e5	6.73e5	0.89	NO	0.496	41.15	41.10	NO	1.216	1.214	226.81	113	NO
25	25 13C-2,3,7,8-TCDF	1.15e6	1.06e6	0.77	NO	0.919	25.61	25.62	NO	1.003	1.003	117.44	117	NO
26	26 13C-1,2,3,7,8-PeCDF	8.41e5	1.06e6	1.58	NO	0.715	29.85	29.75	NO	1.169	1.165	110.40	110	NO
27	27 13C-2,3,4,7,8-PeCDF	7.94e5	1.06e6	1.58	NO	0.689	30.94	30.82	NO	1.212	1.207	108.32	108	NO
28	28 13C-1,2,3,4,7,8-HxCDF	5.85e5	6.73e5	0.50	NO	0.873	33.42	33.42	NO	0.987	0.987	99.637	99.6	NO
29	29 13C-1,2,3,6,7,8-HxCDF	5.97e5	6.73e5	0.49	NO	0.933	33.55	33.54	NO	0.991	0.991	95.104	95.1	NO
30	30 13C-2,3,4,6,7,8-HxCDF	5.63e5	6.73e5	0.50	NO	0.843	34.22	34.21	NO	1.011	1.010	99.182	99.2	NO
31	31 13C-1,2,3,7,8,9-HxCDF	5.19e5	6.73e5	0.50	NO	0.780	35.22	35.21	NO	1.040	1.040	98.997	99.0	NO

Dataset: U:\VG12.PRO\Results\201221R1\201221R1-1.qld

Last Altered: Monday, December 21, 2020 08:11:17 Pacific Standard Time

Printed: Monday, December 21, 2020 12:36:34 Pacific Standard Time

Name: 201221R1_1, Date: 21-Dec-2020, Time: 07:25:05, ID: ST201221R1_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	4.22e5	6.73e5	0.42	NO	0.726	36.79	36.77	NO	1.087	1.086	86.294	86.3	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.51e5	6.73e5	0.43	NO	0.491	38.80	38.81	NO	1.146	1.146	106.30	106	NO
34	34 13C-OCDF	8.57e5	6.73e5	0.88	NO	0.565	41.37	41.39	NO	1.222	1.222	225.31	113	NO
35	35 37Cl-2,3,7,8-TCDD	9.59e4	8.59e5			1.22	26.30	26.33	NO	1.030	1.031	9.1696	91.7	NO
36	36 13C-1,2,3,4-TCDD	8.59e5	8.59e5	0.79	NO	1.00	25.64	25.54	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.06e6	1.06e6	0.79	NO	1.00	24.13	24.03	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	6.73e5	6.73e5	0.50	NO	1.00	33.92	33.85	NO	1.000	1.000	100.00	100	YES <input checked="" type="checkbox"/>

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Tuesday, December 22, 2020 09:29:14 Pacific Standard Time

Printed: Tuesday, December 22, 2020 09:30:34 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

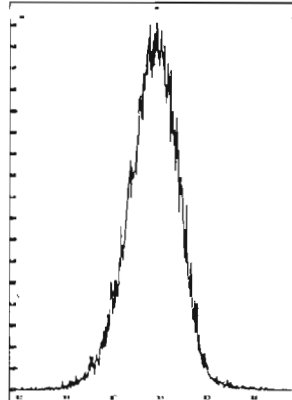
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	201221R1_1	ST201221R1_1 1613 CS3 20L0301	21-Dec-20	07:25:05
2	201221R1_2	B0L0115-BS1 OPR 1	21-Dec-20	08:10:17
3	201221R1_3	SOLVENT BLANK	21-Dec-20	08:57:03
4	201221R1_4	ST201221R1_2 428 CS3 20L0801	21-Dec-20	09:43:32
5	201221R1_5	B0L0111-BS2 OPR 1	21-Dec-20	10:34:16
6	201221R1_6	B0L0111-BS7 OPR 1	21-Dec-20	11:24:04
7	201221R1_7	B0L0115-BLK1 Method Blank 1	21-Dec-20	12:20:42
8	201221R1_8	2002611-01 20201130-08-POD-001 0.96676	21-Dec-20	13:08:26
9	201221R1_9	2002611-02 20201130-08-POD-002 0.9443	21-Dec-20	13:59:11
10	201221R1_10	2002691-01 Forebay Composite (24hr) 0.96966	21-Dec-20	14:45:00
11	201221R1_11	2002532-07@10X USMPDI-004SC-A-01-02-2...	21-Dec-20	15:32:22
12	201221R1_12	2002532-09@10X USMPDI-004SC-A-03-04-2...	21-Dec-20	16:16:42
13	201221R1_13	SOLVENT BLANK	21-Dec-20	17:09:54
14	201221R1_14	ST201221R1_3 1613 CS3 20L0301	21-Dec-20	17:54:10
15	201221R1_15	ST201221R1_4 428 CS3 20L0801	21-Dec-20	18:38:27

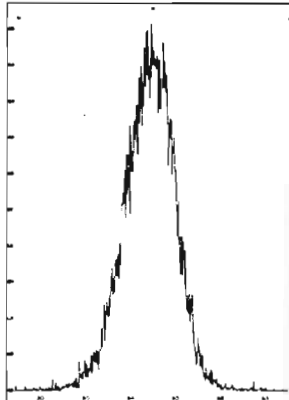
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Monday, December 21, 2020 07:20:36 Pacific Standard Time

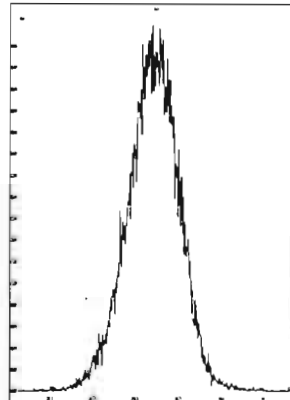
M 292.9824 R 12075



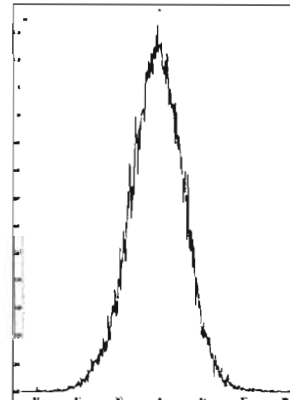
M 304.9824 R 11906



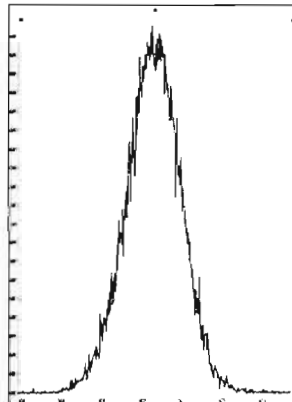
M 318.9792 R 11260



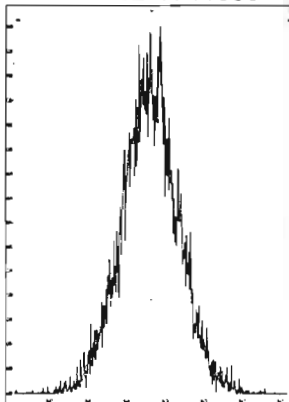
M 330.9792 R 10967



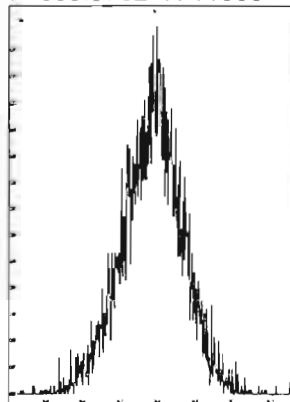
M 342.9792 R 10869



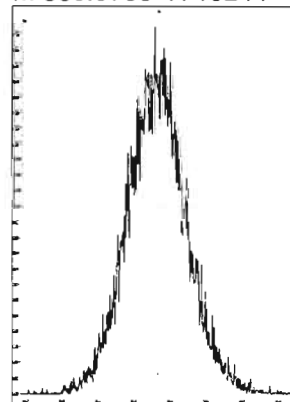
M 354.9792 R 11059



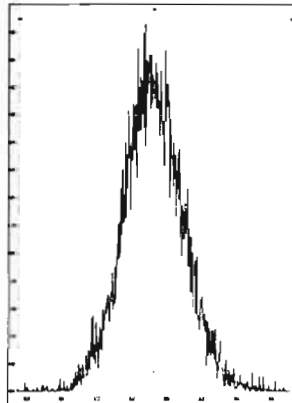
M 366.9792 R 11363



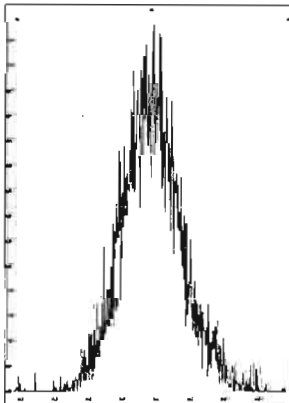
M 380.9760 R 10244



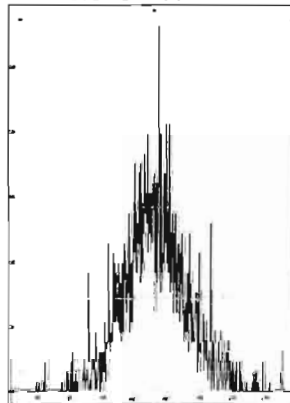
M 392.9760 R 10374



M 404.9760 R 10728



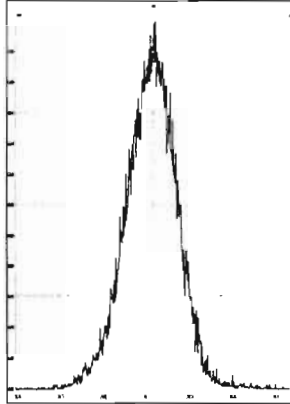
M 416.9760 R 12627



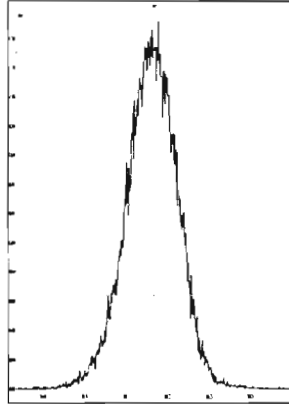
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Monday, December 21, 2020 07:21:21 Pacific Standard Time

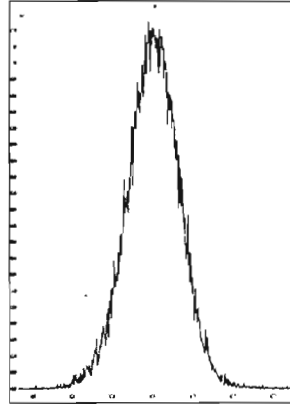
M 318.9792 R 11960



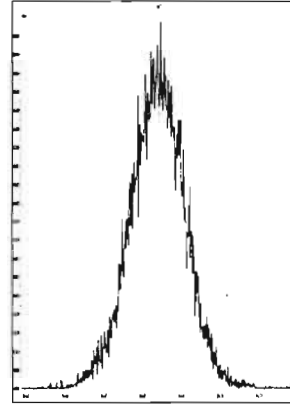
M 330.9792 R 11063



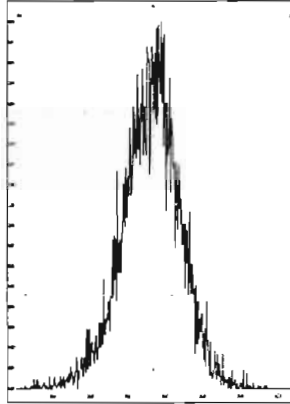
M 342.9792 R 11265



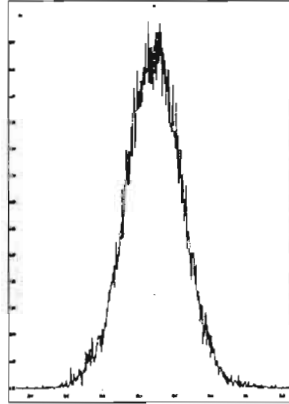
M 354.9792 R 11470



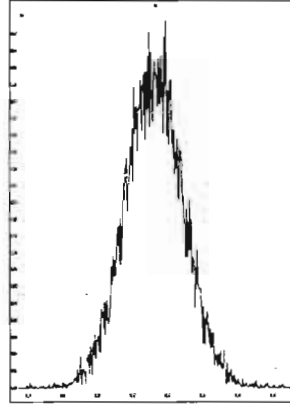
M 366.9792 R 10869



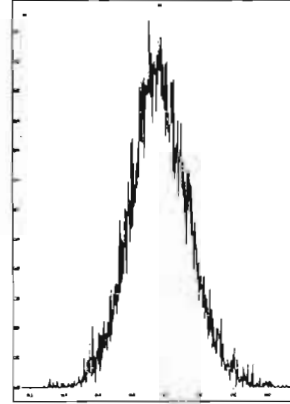
M 380.9760 R 10333



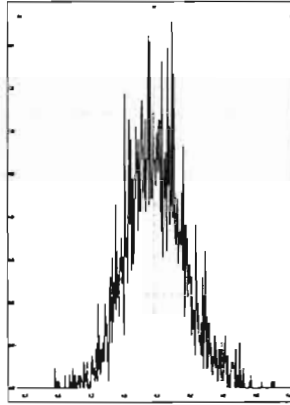
M 392.9760 R 10331



M 404.9760 R 10636



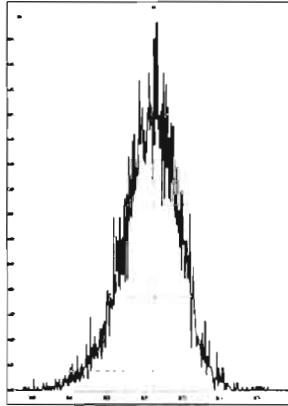
M 416.9760 R 12691



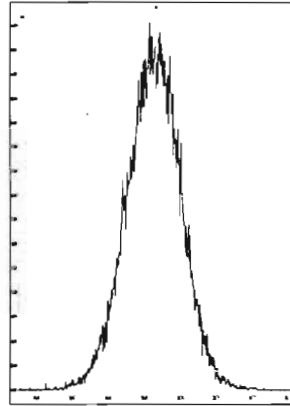
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Monday, December 21, 2020 07:22:16 Pacific Standard Time

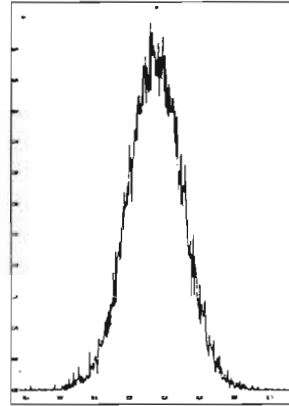
M 366.9792 R 10966



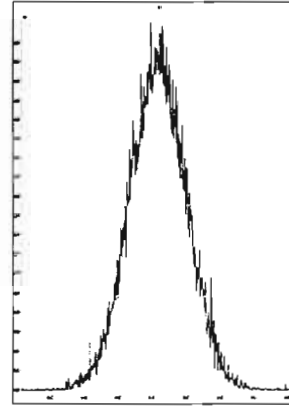
M 380.9760 R 10733



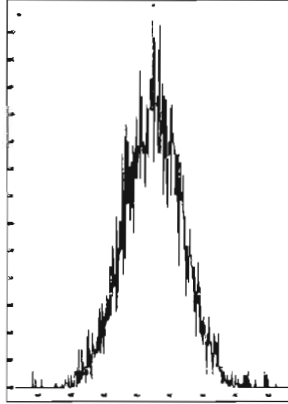
M 392.9760 R 10462



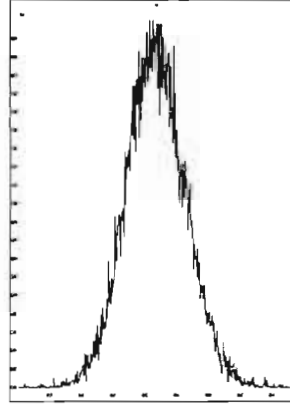
M 404.9760 R 10729



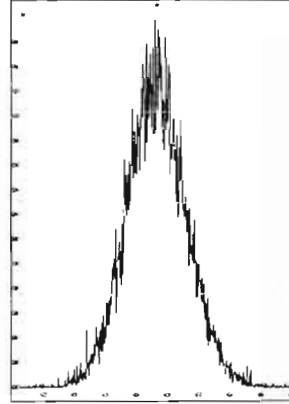
M 416.9760 R 10681



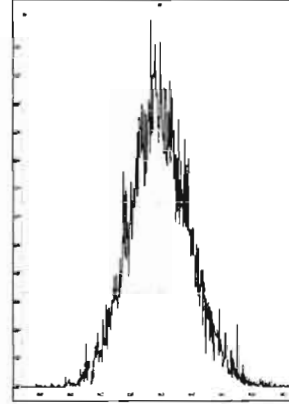
M 430.9728 R 10163



M 442.9728 R 10120



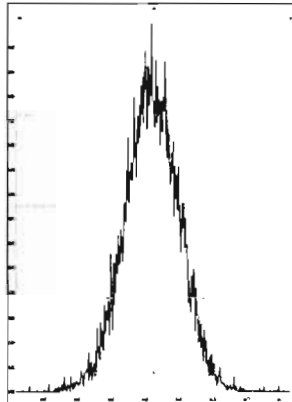
M 454.9728 R 10246



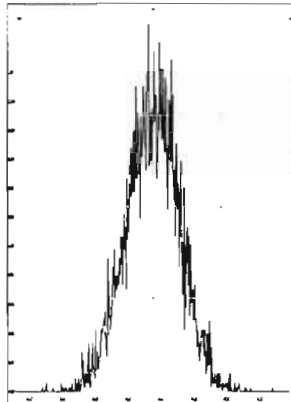
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Monday, December 21, 2020 07:22:42 Pacific Standard Time

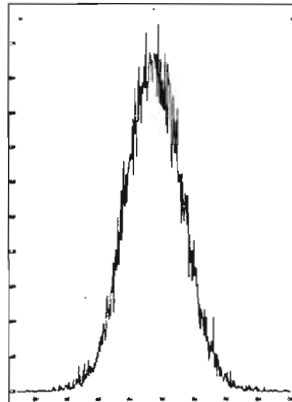
M 404.9760 R 11364



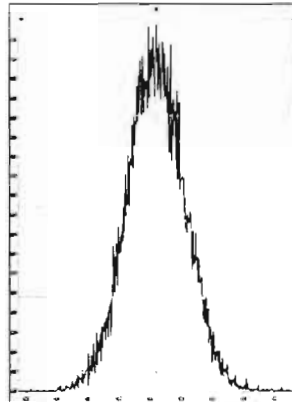
M 416.9760 R 11414



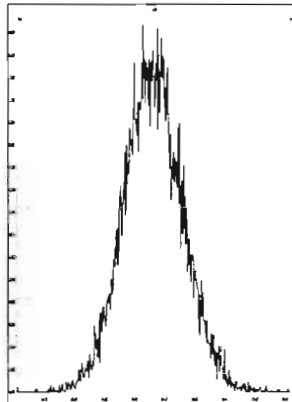
M 430.9728 R 10823



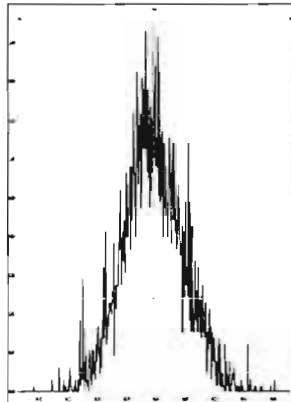
M 442.9728 R 10459



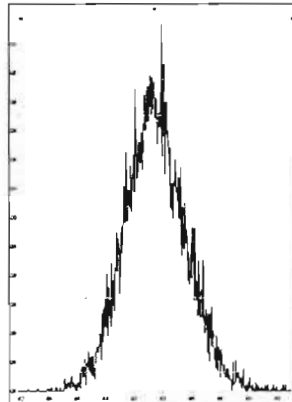
M 454.9728 R 10727



M 466.9728 R 11061



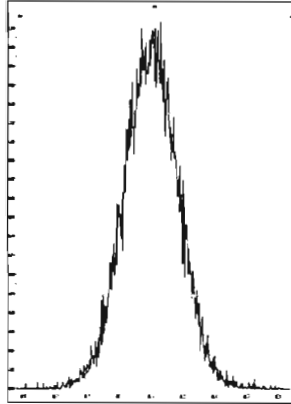
M 480.9696 R 11011



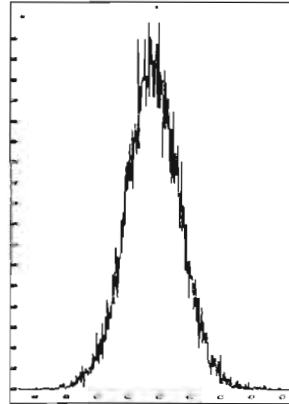
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Monday, December 21, 2020 07:23:03 Pacific Standard Time

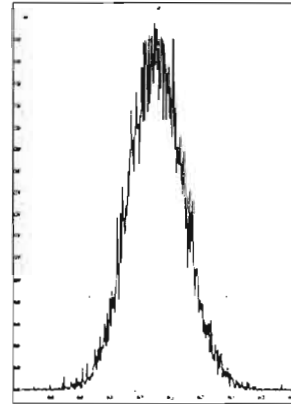
M 430.9728 R 11061



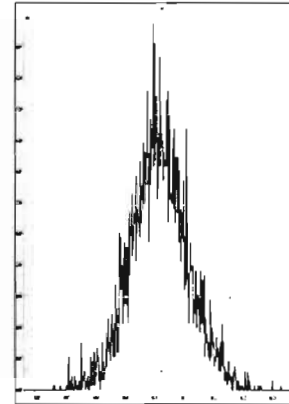
M 442.9728 R 10867



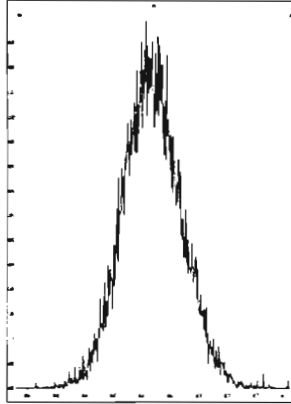
M 454.9728 R 11062



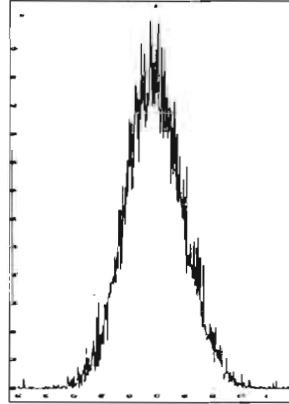
M 466.9728 R 11259



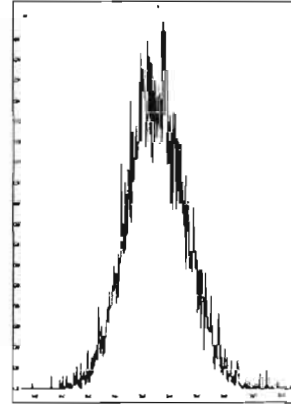
M 480.9696 R 10331



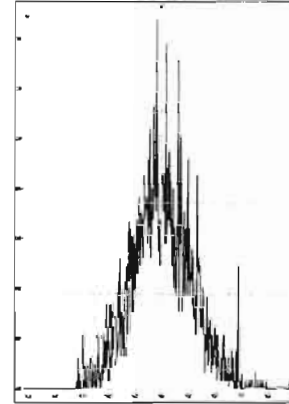
M 492.9696 R 10164



M 504.9696 R 10081



M 516.9697 R 10287



Vista Analytical Laboratory VG-11

Dataset: U:\VG12.PRO\Results\201221R1\201221R1-CPSM.qld

Last Altered: Monday, December 21, 2020 08:12:42 Pacific Standard Time

Printed: Tuesday, December 22, 2020 09:52:10 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: 201221R1_1, Date: 21-Dec-2020, Time: 07:25:05, ID: ST201221R1_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

#	Name	RT
1	1 1,3,6,8-TCDD (First)	22.49
2	2 1,2,8,9-TCDD (Last)	27.22
3	3 1,2,4,7,9-PeCDD (First)	28.77
4	4 1,2,3,8,9-PeCDD (Last)	31.38
5	5 1,2,4,6,7,9-HxCDD (First)	32.69
6	6 1,2,3,7,8,9-HxCDD (Last)	34.72
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.17
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.20
9	9 1,3,6,8-TCDF (First)	20.24
10	10 1,2,8,9-TCDF (Last)	27.53
11	11 1,3,4,6,8-PeCDF (First)	27.10
12	12 1,2,3,8,9-PeCDF (Last)	31.74
13	13 1,2,3,4,6,8-HxCDF (First)	32.16
14	14 1,2,3,7,8,9-HxCDF (Last)	35.23
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.78
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.82

Vista Analytical Laboratory VG-11

Dataset: U:\VG12.PRO\Results\201221R1\201221R1-CPSM.qld

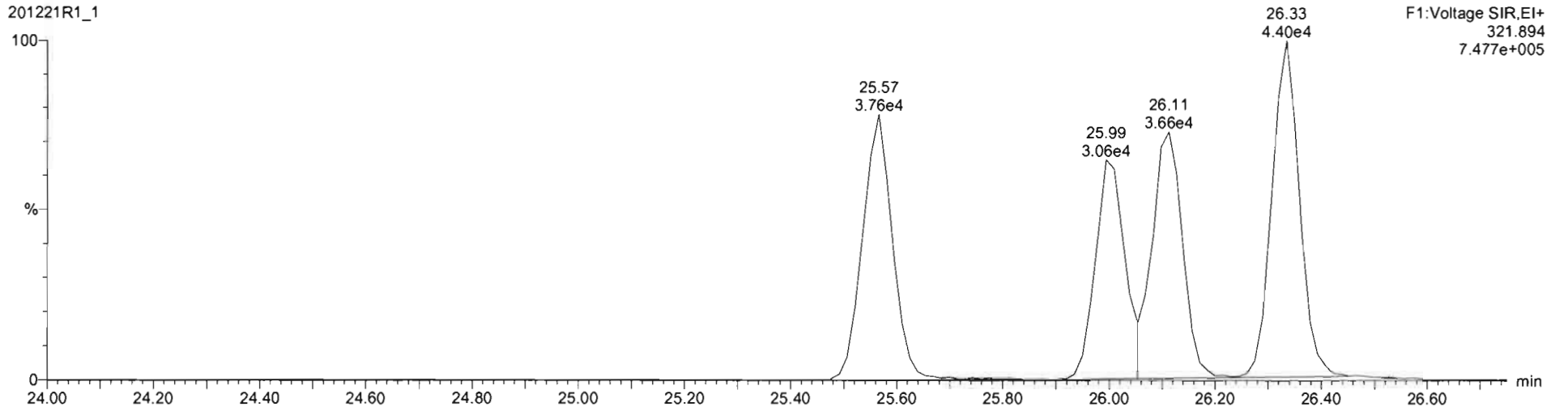
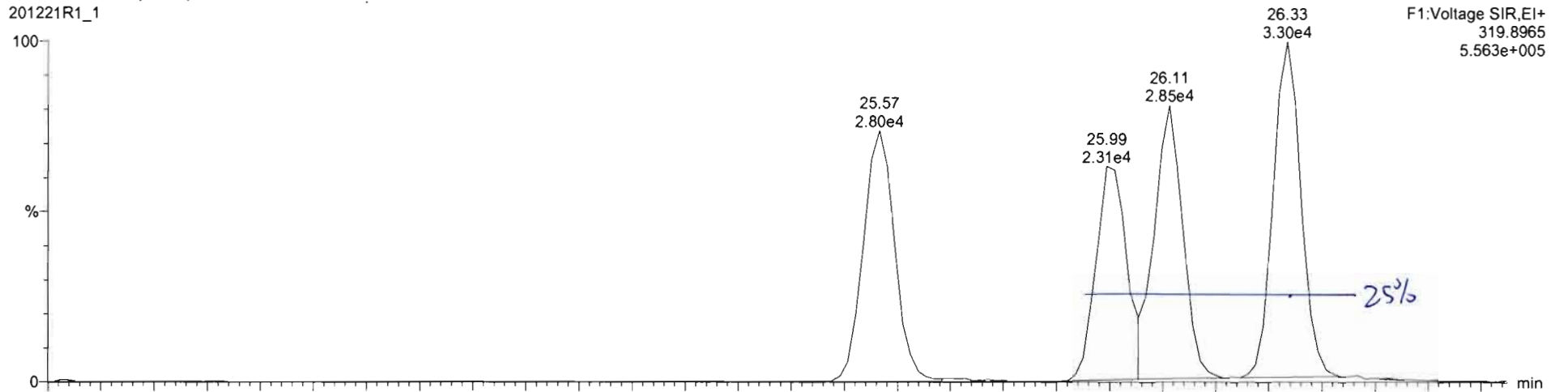
Last Altered: Monday, December 21, 2020 08:12:42 Pacific Standard Time
Printed: Tuesday, December 22, 2020 09:52:10 Pacific Standard Time

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

HN 12/22/2020
GRB 12/22/2020

Name: 201221R1_1, Date: 21-Dec-2020, Time: 07:25:05, ID: ST201221R1_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

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



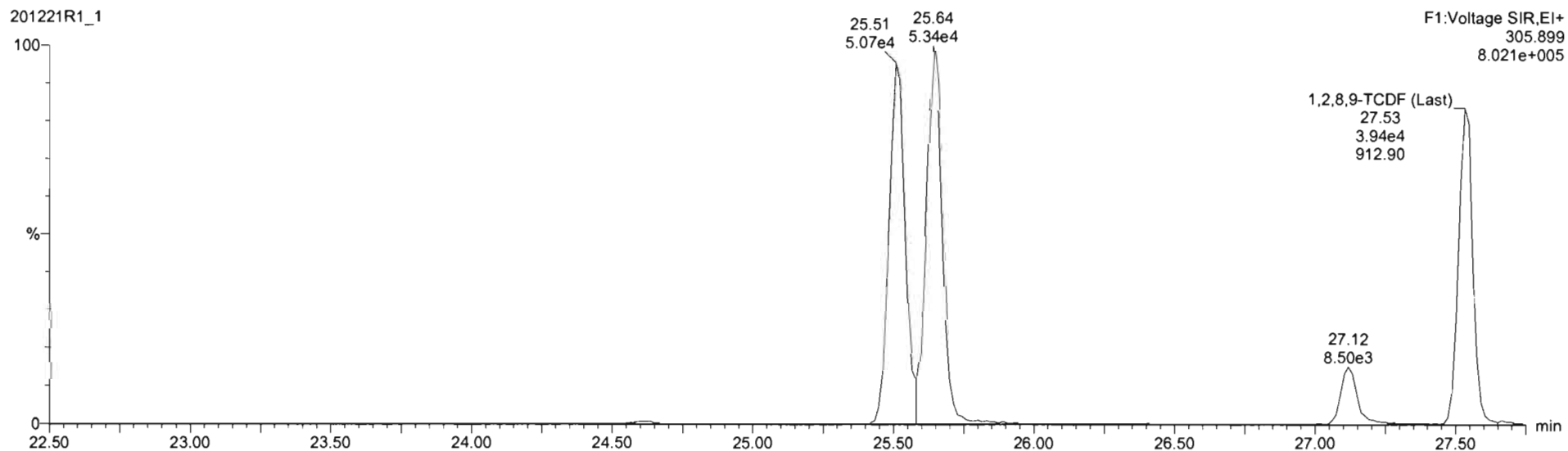
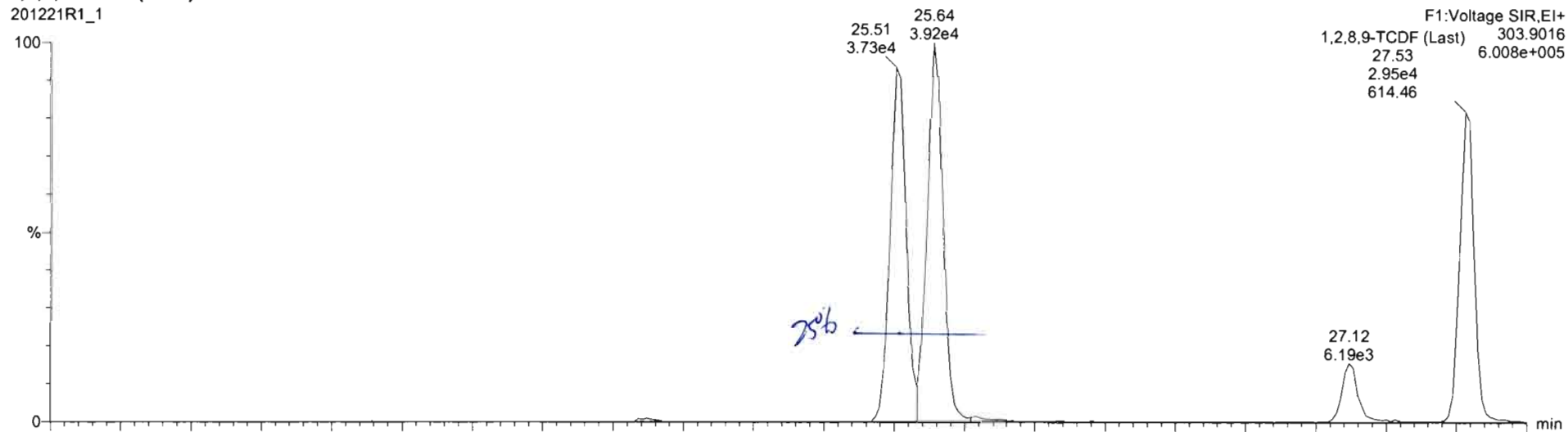
Dataset: U:\VG12.PRO\Results\201221R1\201221R1-CPSM.qld

Last Altered: Monday, December 21, 2020 08:12:42 Pacific Standard Time
Printed: Tuesday, December 22, 2020 09:52:10 Pacific Standard Time

HN 12/22/2020
GRB 12/22/2020

Name: 201221R1_1, Date: 21-Dec-2020, Time: 07:25:05, ID: ST201221R1_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

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



Dataset: U:\VG12.PRO\Results\201221R1\201221R1-1.qld

Last Altered: Monday, December 21, 2020 08:11:17 Pacific Standard Time

Printed: Monday, December 21, 2020 12:32:46 Pacific Standard Time

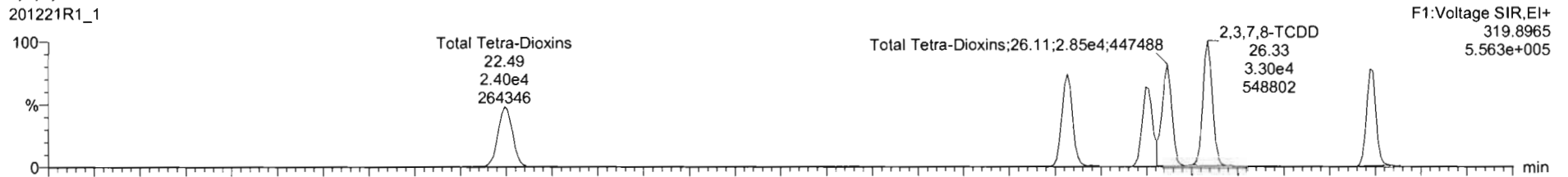
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Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

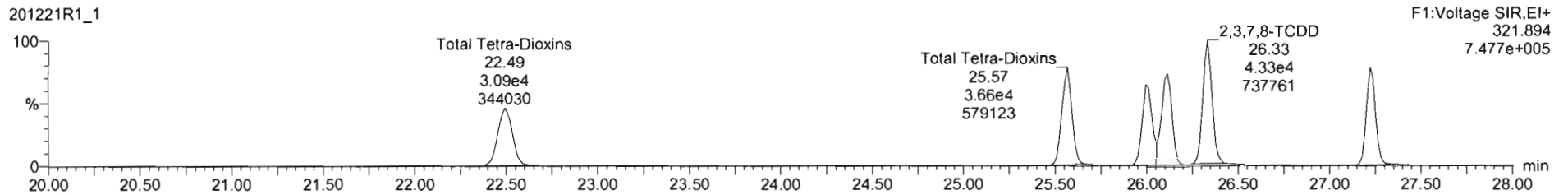
Name: 201221R1_1, Date: 21-Dec-2020, Time: 07:25:05, ID: ST201221R1_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

2,3,7,8-TCDD

201221R1_1

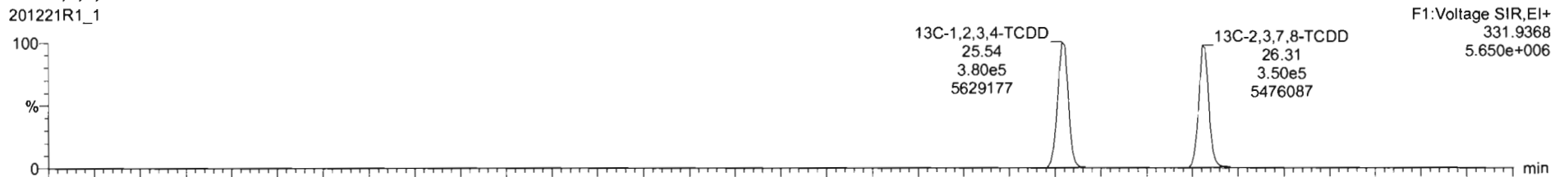


201221R1_1

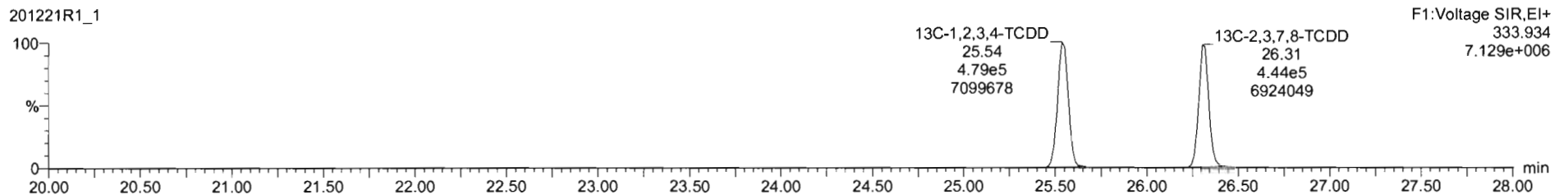


13C-2,3,7,8-TCDD

201221R1_1



201221R1_1



Dataset: U:\VG12.PRO\Results\201221R1\201221R1-1.qld

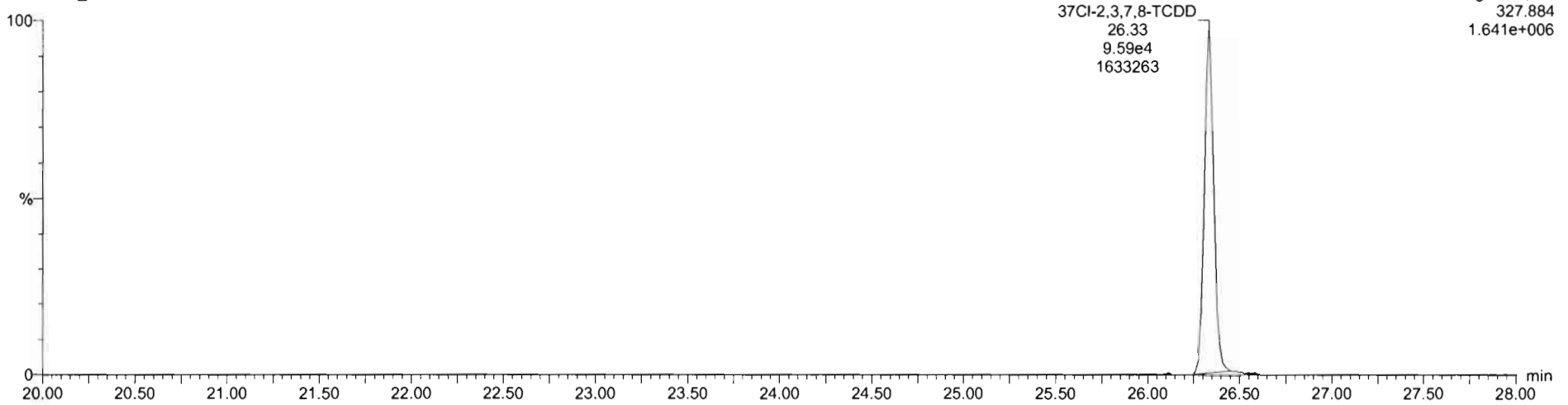
Last Altered: Monday, December 21, 2020 08:11:17 Pacific Standard Time

Printed: Monday, December 21, 2020 12:32:46 Pacific Standard Time

Name: 201221R1_1, Date: 21-Dec-2020, Time: 07:25:05, ID: ST201221R1_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

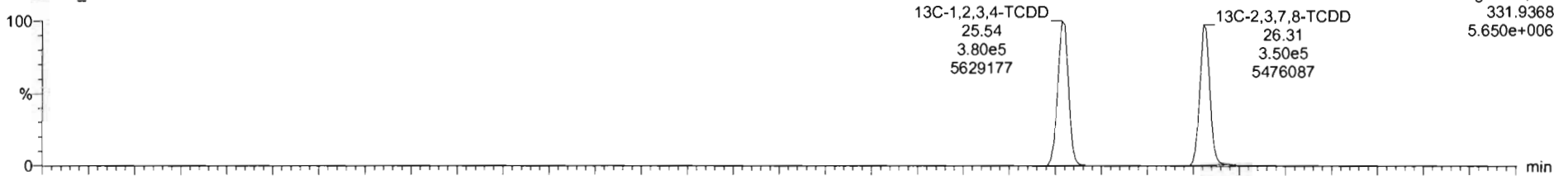
37Cl-2,3,7,8-TCDD

201221R1_1

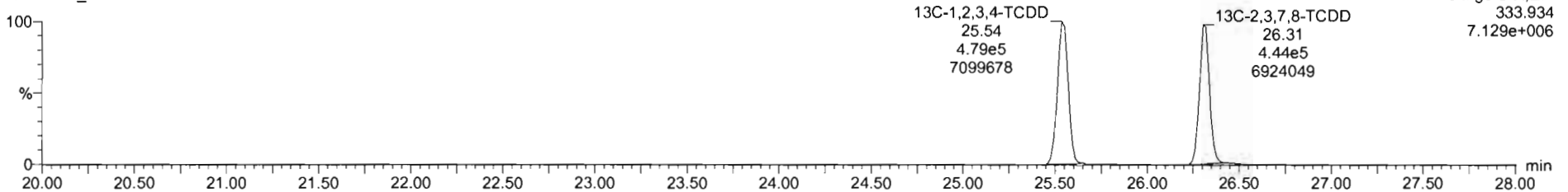


13C-1,2,3,4-TCDD

201221R1_1



201221R1_1



Dataset: U:\VG12.PRO\Results\201221R1\201221R1-1.qld

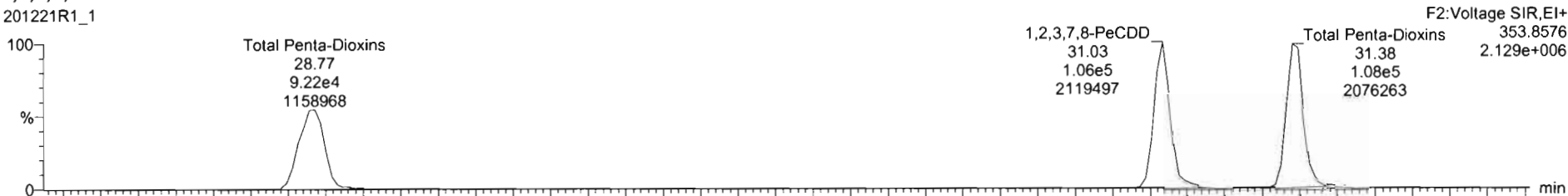
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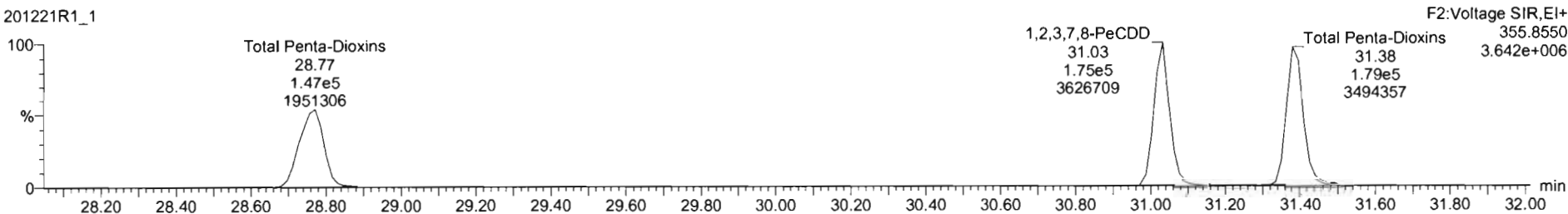
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1,2,3,7,8-PeCDD

201221R1_1

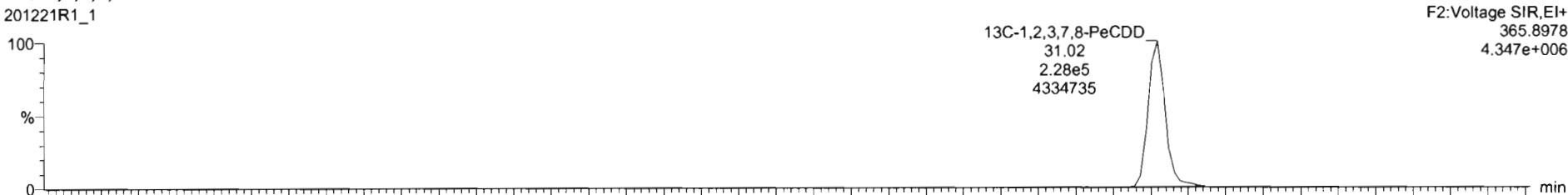


201221R1_1

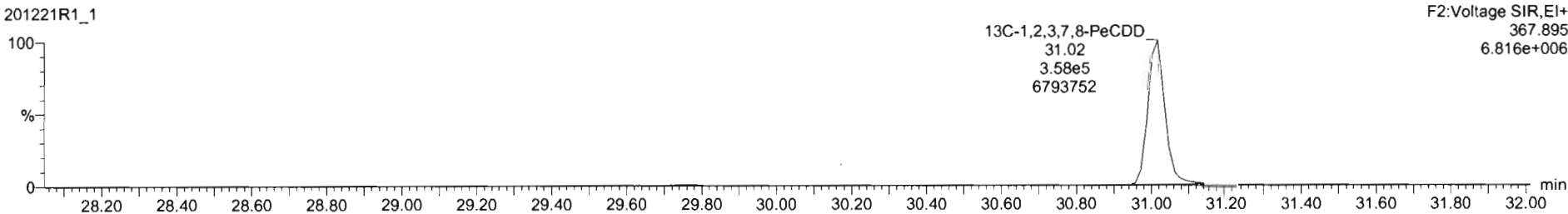


13C-1,2,3,7,8-PeCDD

201221R1_1



201221R1_1

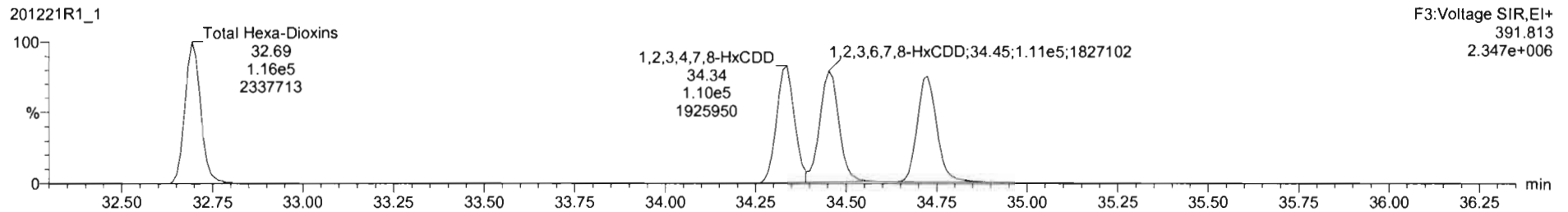
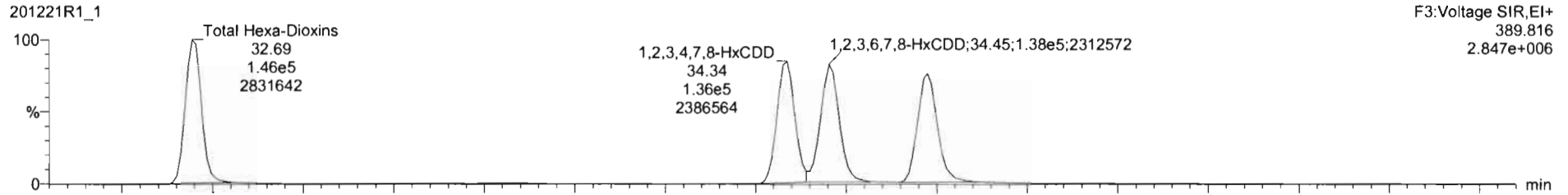


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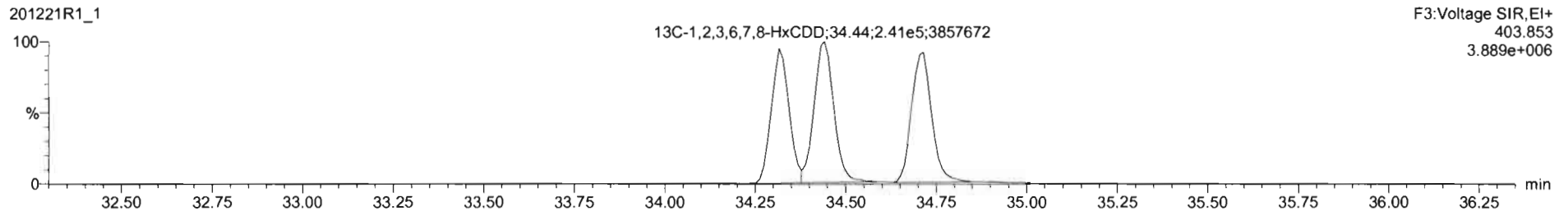
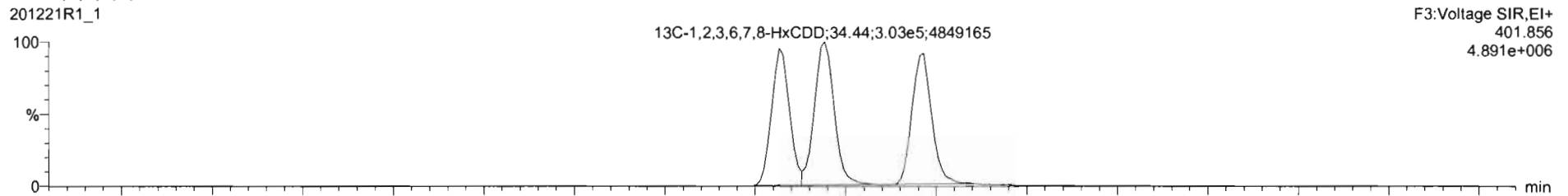
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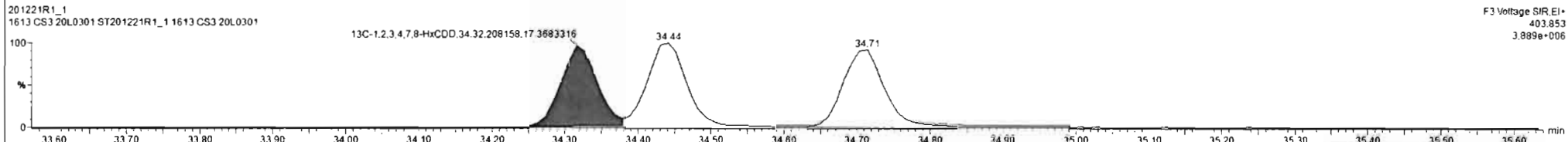
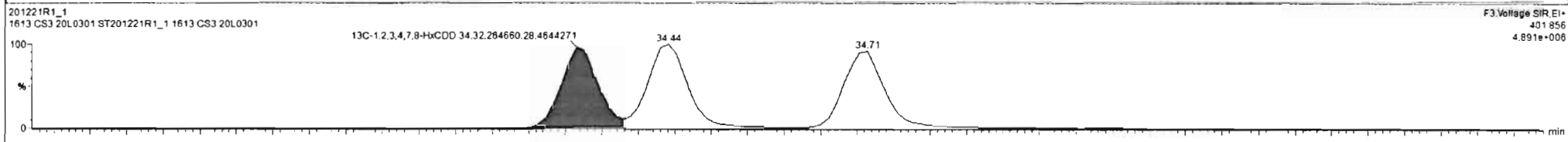
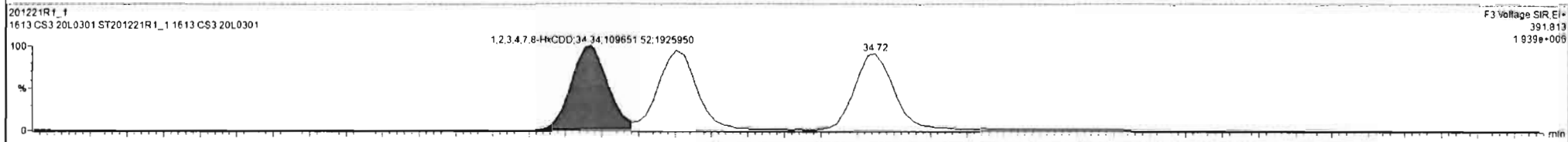
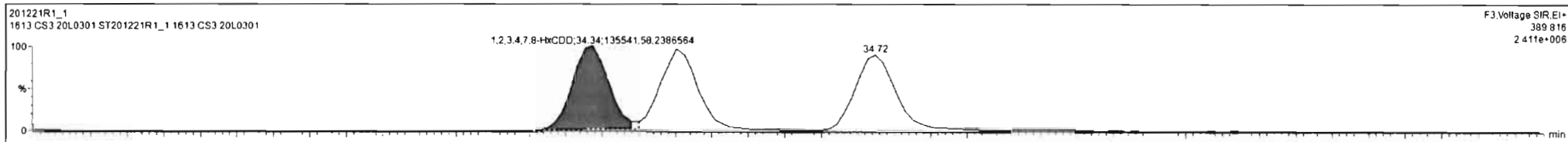
1,2,3,4,7,8-HxCDD



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



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	7.62e4	0.76	NO	0.9865	1.000	26.33	1.001	9.79	97.9	0.0367	9.79
2 1,2,3,7,8-PeCDD	2.81e5	0.60	NO	0.9320	1.000	31.03	1.000	51.4	103	0.0790	51.4
3 1,2,3,4,7,8-HxCDD	2.45e5	1.24	NO	1.0203	1.000	34.34	1.001	50.8	102	0.150	50.8
4 1,2,3,6,7,8-HxCDD	2.48e5	1.25	NO	0.9025	1.000	34.45	1.000	50.6	101	0.162	50.6
5 1,2,3,7,8,9-HxCDD	2.45e5	1.25	NO	0.9542	1.000	34.72	1.000	50.8	102	0.165	50.8
6 1,2,3,4,6,7,8-HpCDD	1.91e5	1.01	NO	0.9180	1.000	38.20	1.000	48.3	96.5	0.262	48.3
7 OCDD	3.34e5	0.87	NO	0.8658	1.000	41.12	1.000	102	102	0.362	102
8 2,3,7,8-TCDF	9.08e4	0.73	NO	0.8480	1.000	25.64	1.001	9.32	93.2	0.0321	9.32
9 1,2,3,7,8-PeCDF	4.12e5	1.55	NO	0.9597	1.000	29.77	1.000	51.1	102	0.0753	51.1
10 2,3,4,7,8-PeCDF	4.32e5	1.55	NO	1.0671	1.000	30.84	1.000	51.0	102	0.0672	51.0
11 1,2,3,4,7,8-HxCDF	2.85e5	1.23	NO	0.9859	1.000	33.43	1.000	48.4	98.8	0.136	49.4

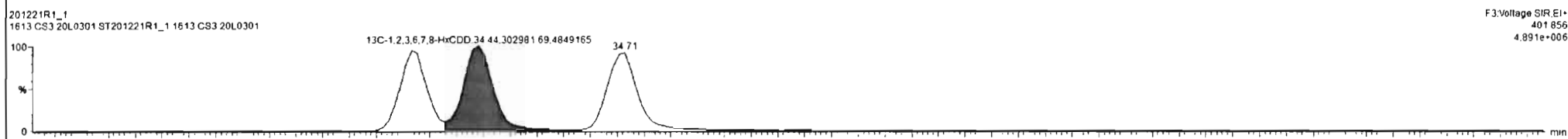
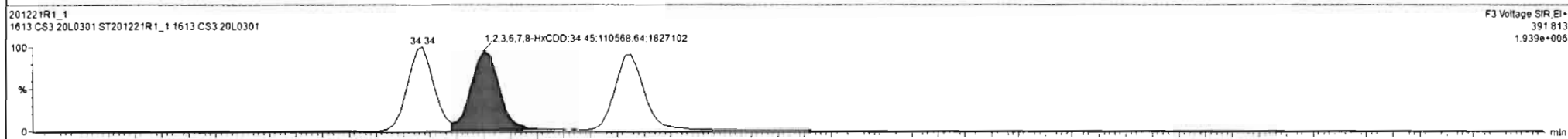
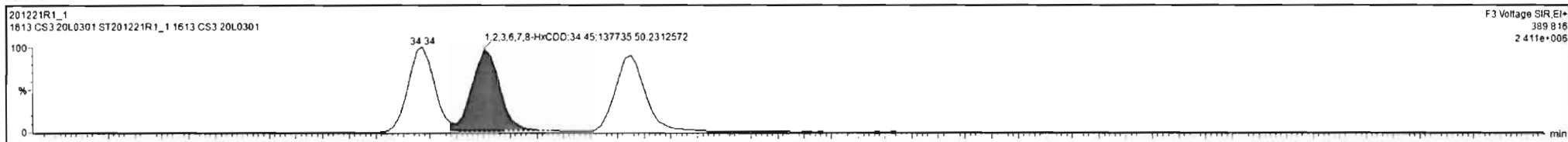


TargetLynx - 201221R1_1.Lqd - Chromatogram

File Edit View Display Processing Window Help

201221R1_1 - ST201221R1_1 1613 CS3 20L0301 - 1613 CS3 20L0301

#	Name	Resp	RA	ny	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	7.62e4	0.75	NO	0.9805	1.000	26.33	1.001	9.79	97.9	0.0367	9.79
2	1,2,3,7,8-PeCDD	2.81e5	0.60	NO	0.9320	1.000	31.03	1.000	51.4	103	0.0790	51.4
3	1,2,3,4,7,8-HxCDD	2.45e5	1.24	NO	1.0203	1.000	34.34	1.001	50.8	102	0.150	50.8
4	1,2,3,6,7,8-HxCDD	2.48e5	1.25	NO	0.9025	1.000	34.45	1.000	50.6	101	0.182	50.8
5	1,2,3,7,8,9-HxCDD	2.45e5	1.25	NO	0.9542	1.000	34.72	1.000	50.8	102	0.165	50.8
6	1,2,3,4,6,7,8-HxCDD	1.91e5	1.01	NO	0.9180	1.000	38.20	1.000	48.3	96.5	0.282	48.3
7	OCDD	3.34e5	0.87	NO	0.8658	1.000	41.12	1.000	102	102	0.362	102
8	2,3,7,8-TCDF	9.08e4	0.73	NO	0.8480	1.000	25.84	1.001	9.32	93.2	0.0321	9.32
9	1,2,3,7,8-PeCDF	4.12e5	1.55	NO	0.9597	1.000	29.77	1.000	51.1	102	0.0753	51.1
10	2,3,4,7,8-PeCDF	4.32e5	1.55	NO	1.0671	1.000	30.84	1.000	51.0	102	0.0672	51.0
11	1,2,3,4,7,8-HxCDF	2.85e5	1.23	NO	0.9859	1.000	33.43	1.000	49.4	98.8	0.136	49.4



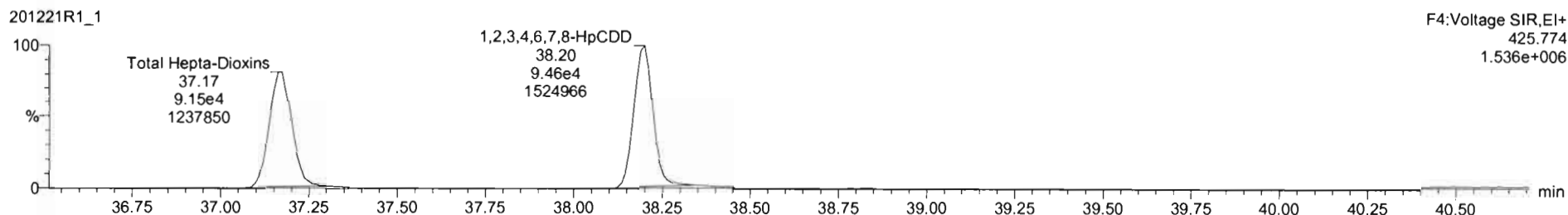
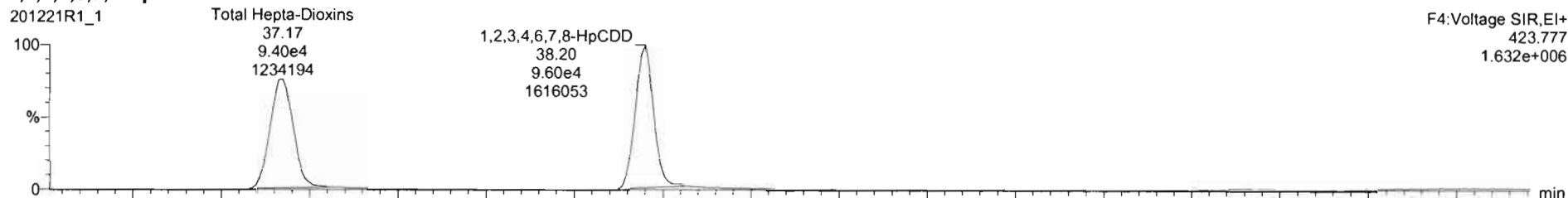
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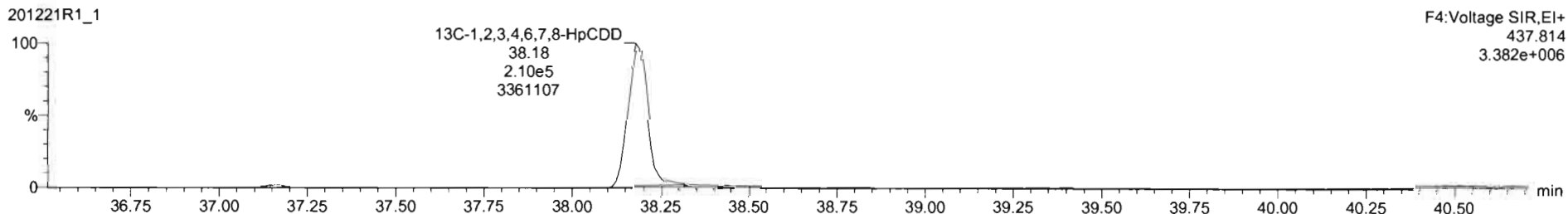
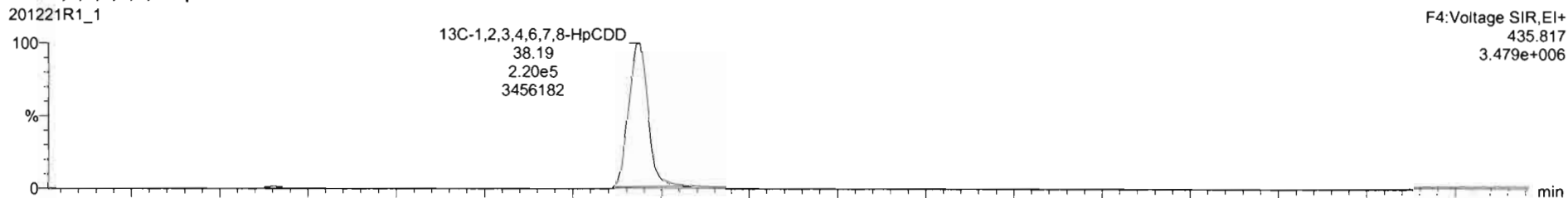
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1,2,3,4,6,7,8-HpCDD



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



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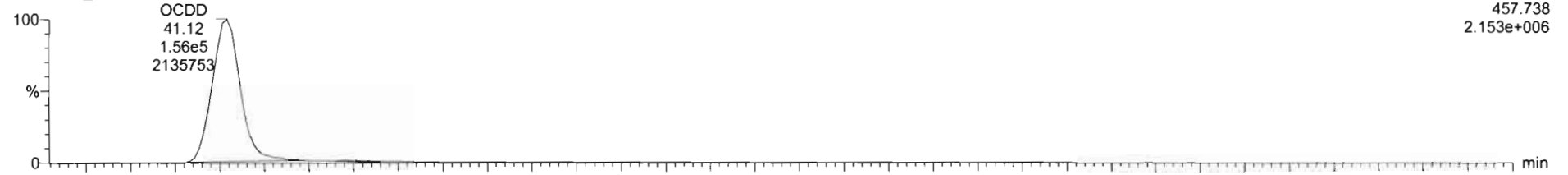
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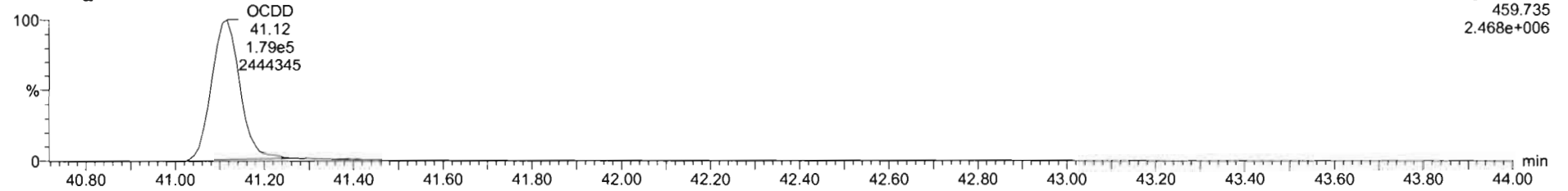
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OCDD

201221R1_1

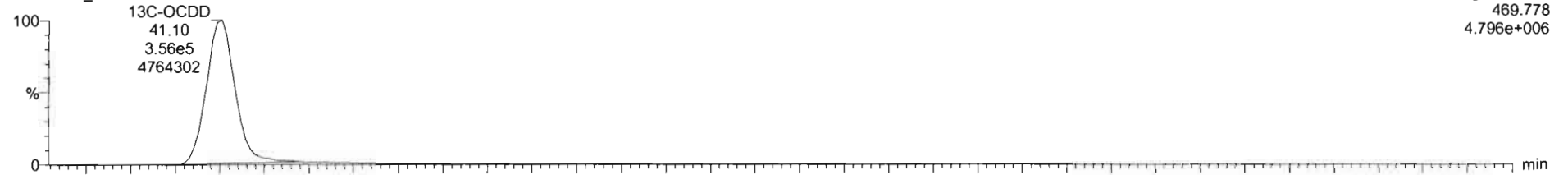


201221R1_1

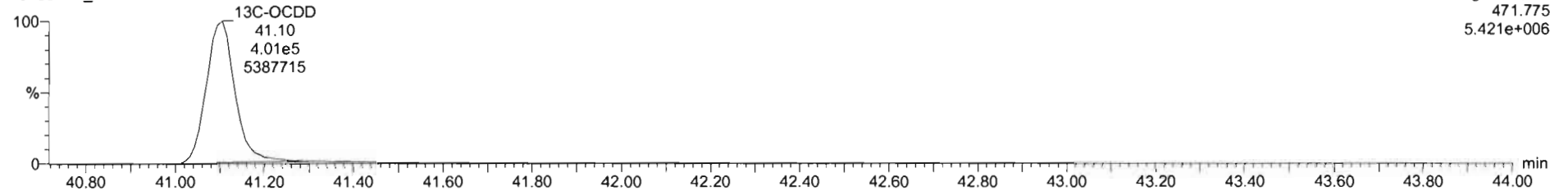


13C-OCDD

201221R1_1



201221R1_1

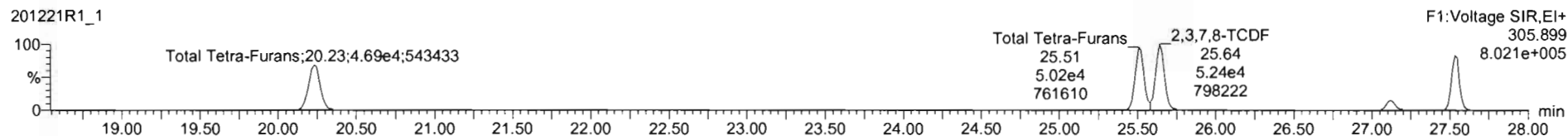
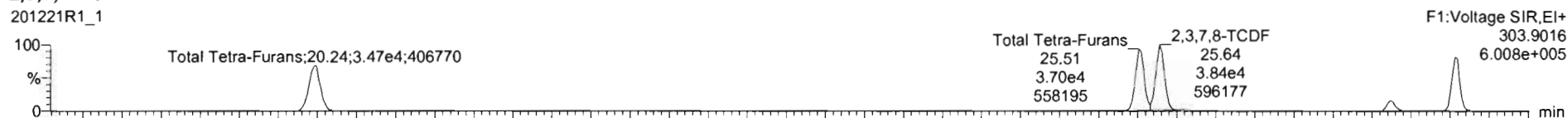


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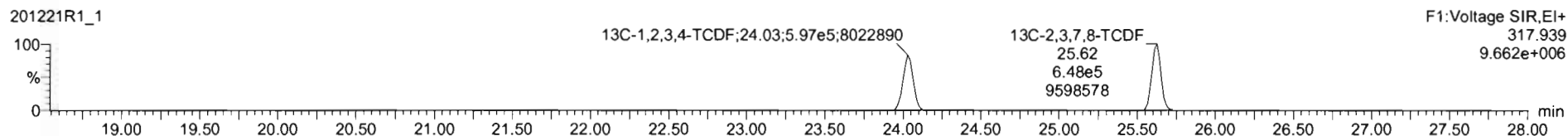
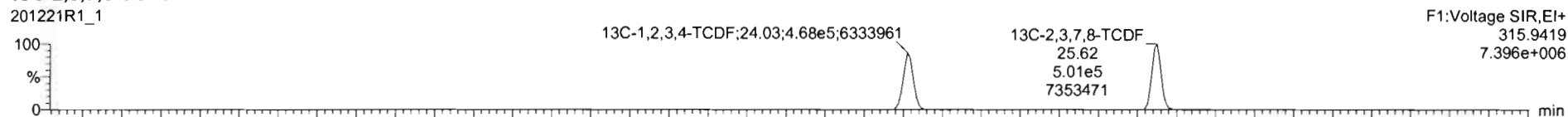
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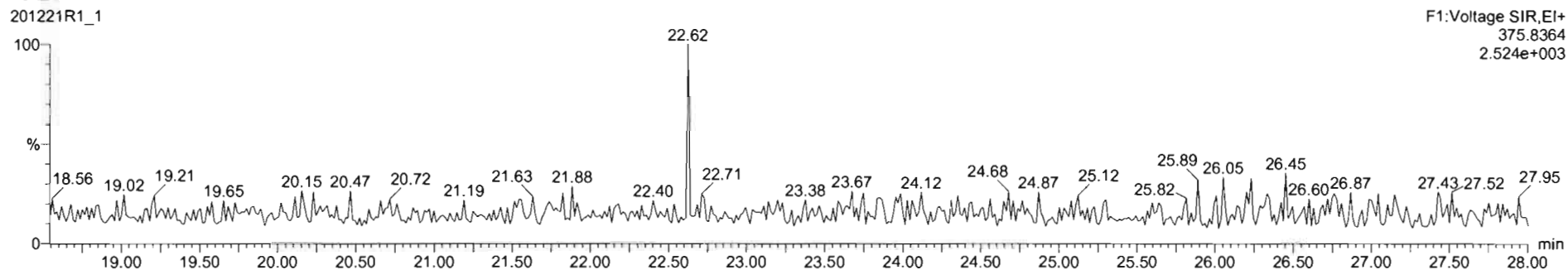
2,3,7,8-TCDF



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



DPE1



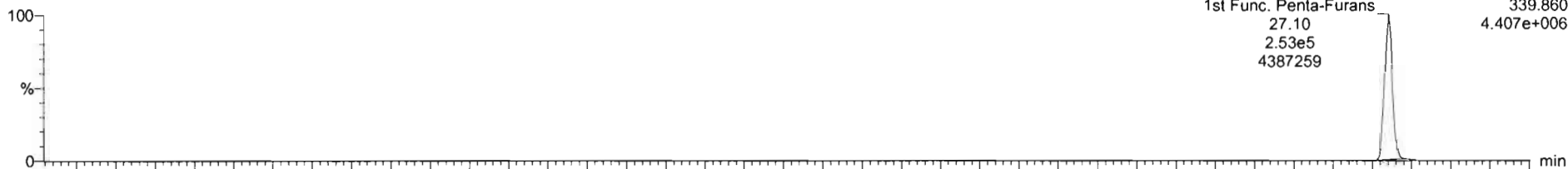
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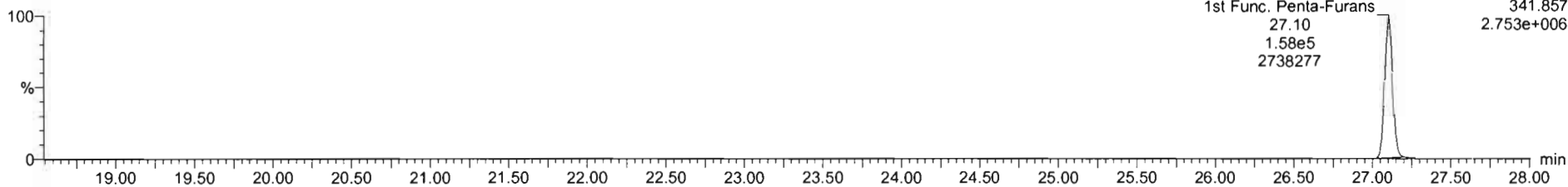
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201221R1_1

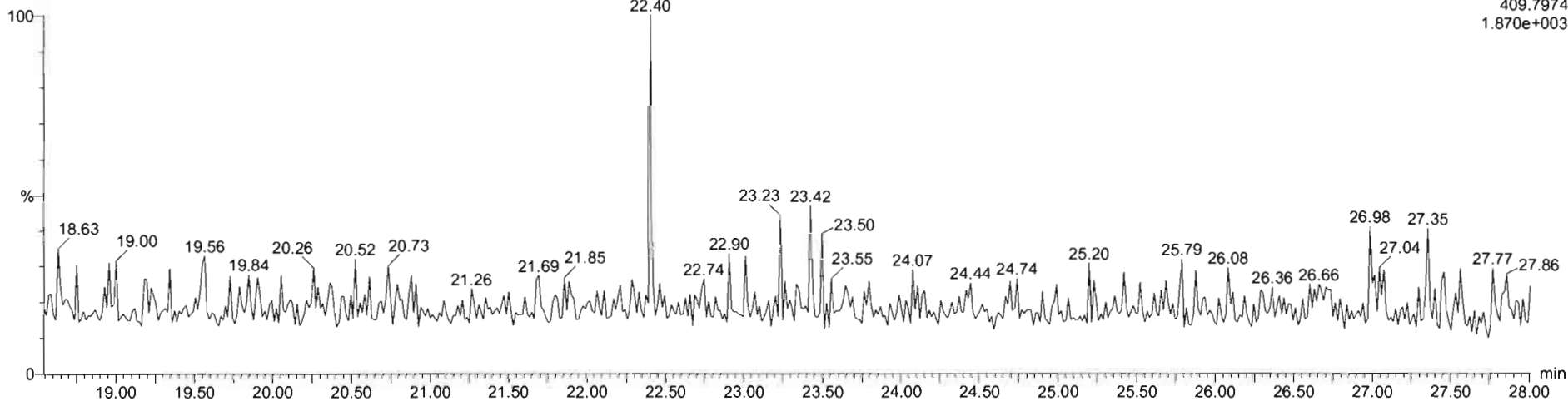


201221R1_1



DPE6

201221R1_1



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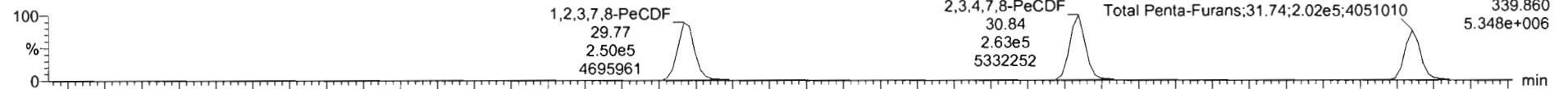
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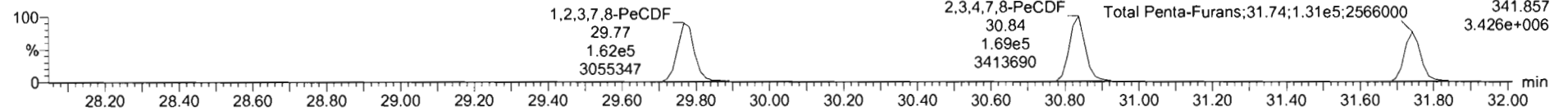
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1,2,3,7,8-PeCDF

201221R1_1

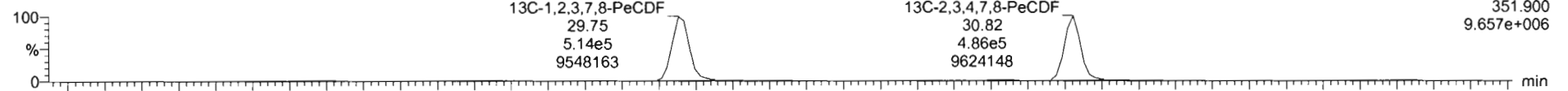


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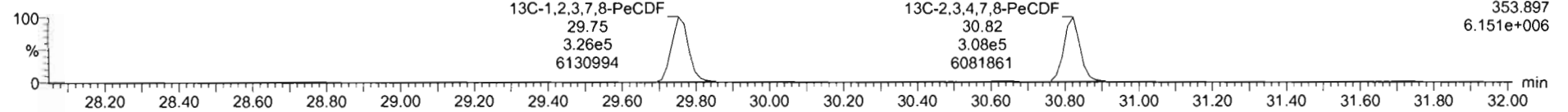


13C-1,2,3,7,8-PeCDF

201221R1_1

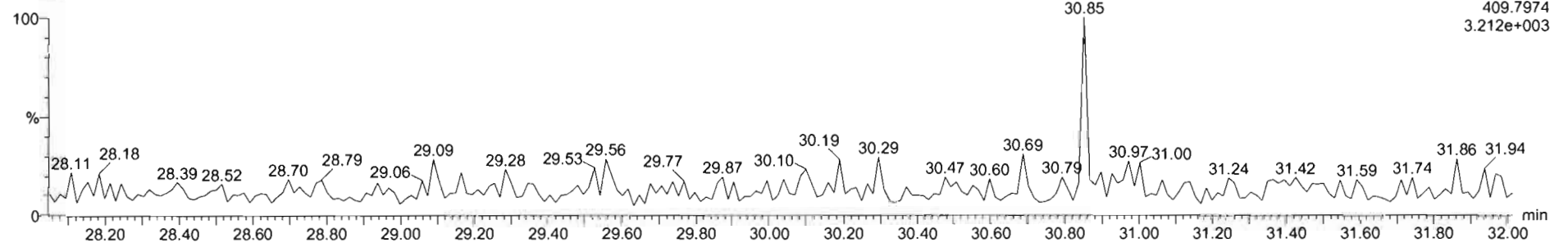


201221R1_1



DPE2

201221R1_1



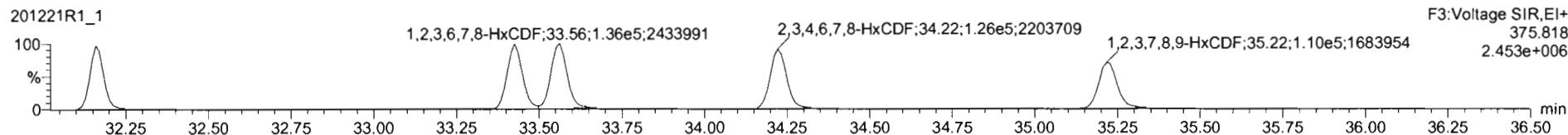
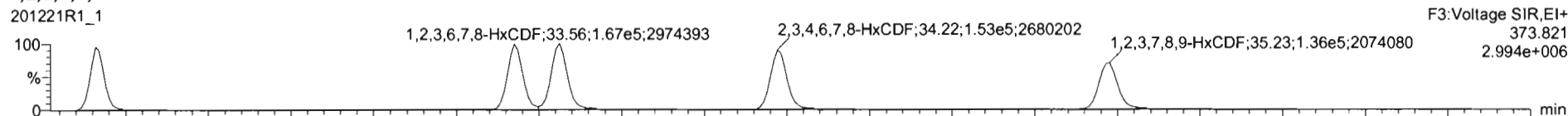
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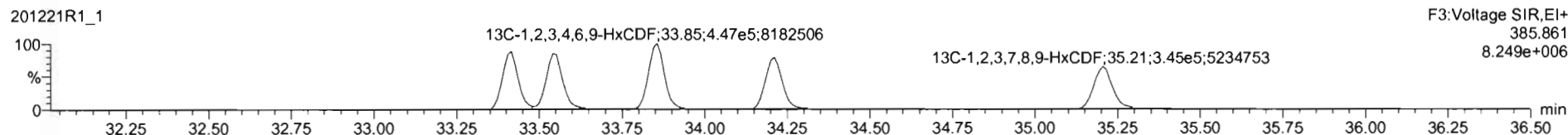
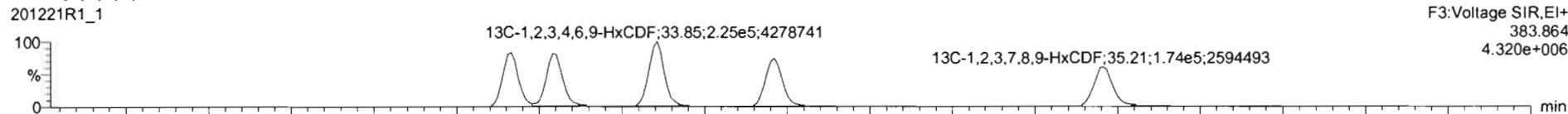
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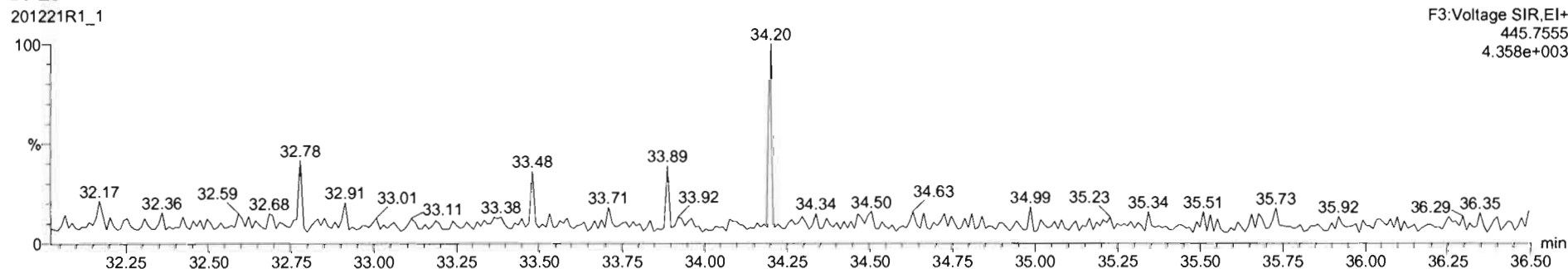
1,2,3,4,7,8-HxCDF



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



DPE3

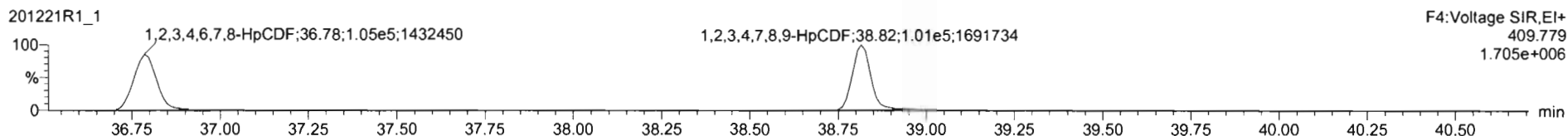
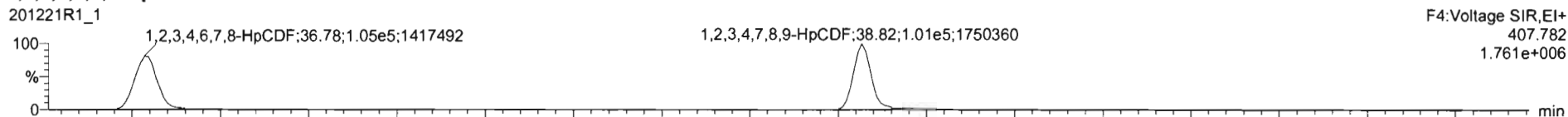


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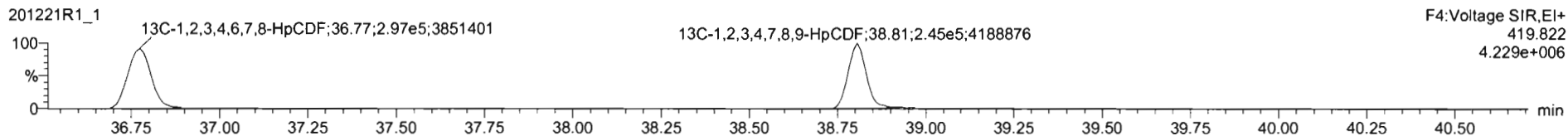
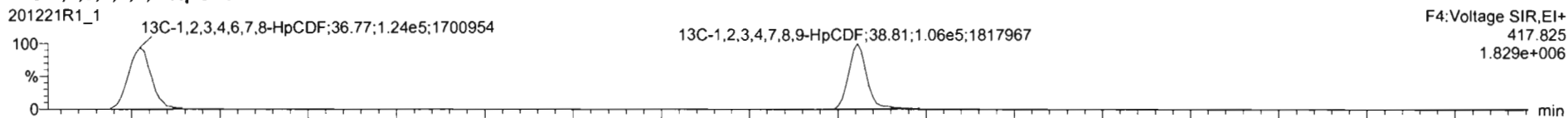
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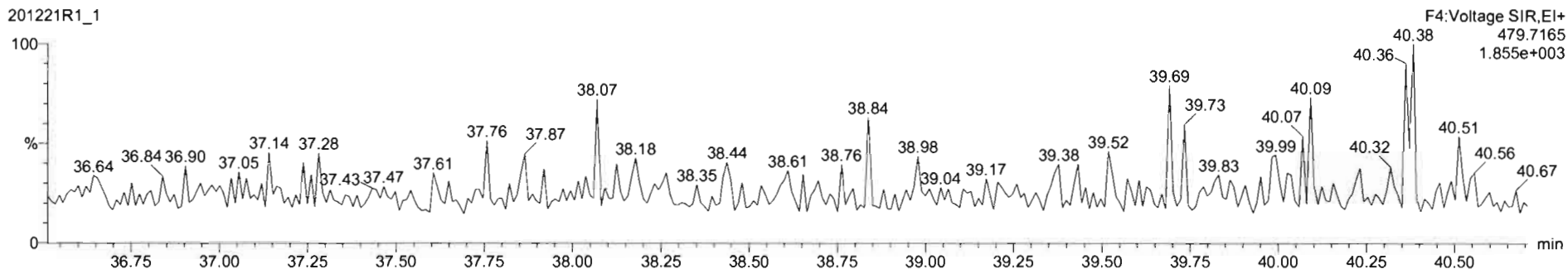
1,2,3,4,6,7,8-HpCDF



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



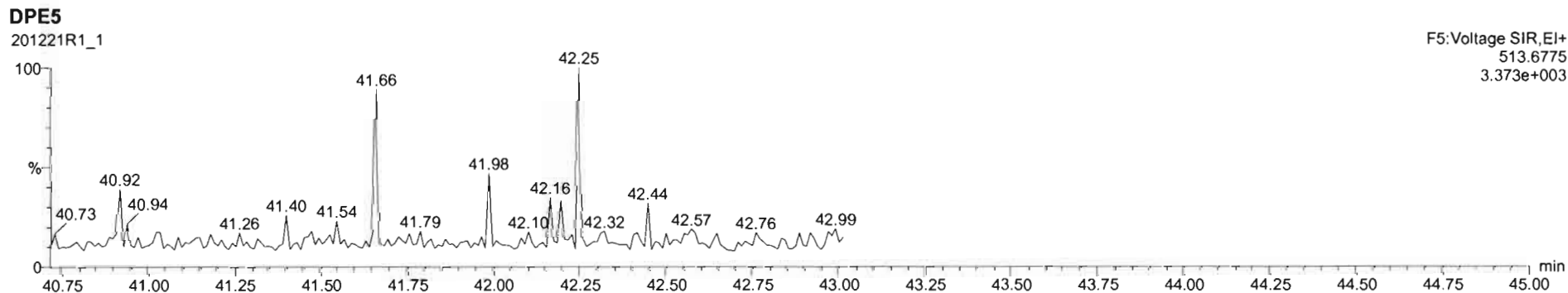
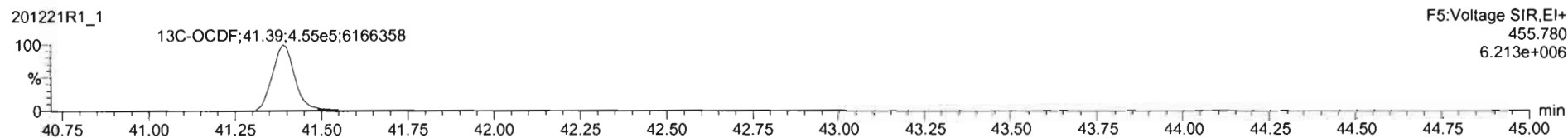
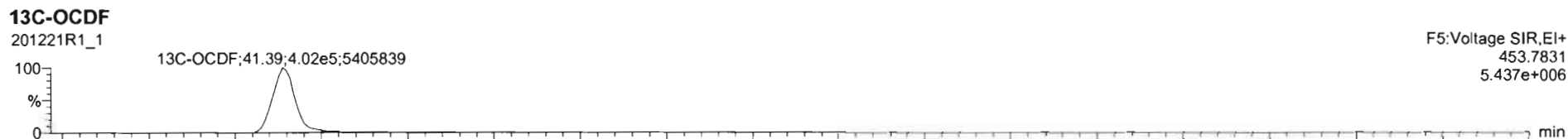
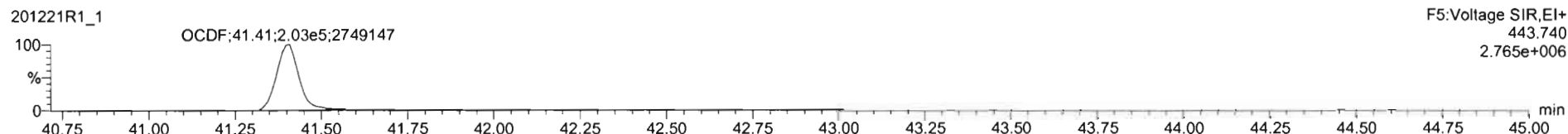
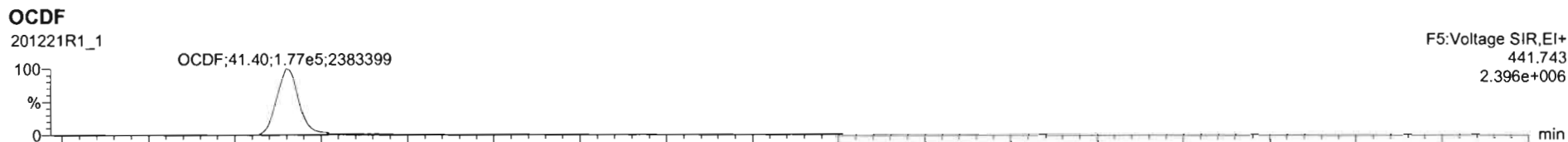
DPE4



Dataset: U:\VG12.PRO\Results\201221R1\201221R1-1.qld

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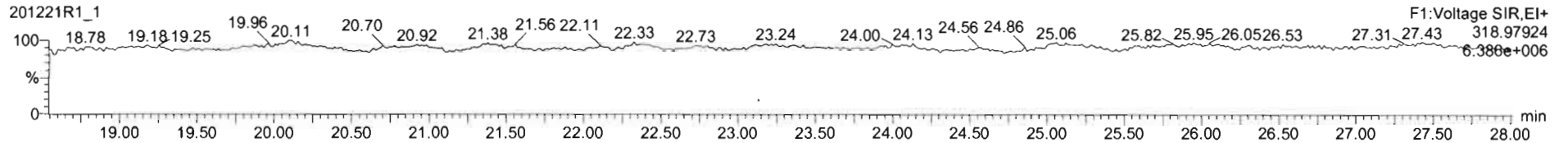


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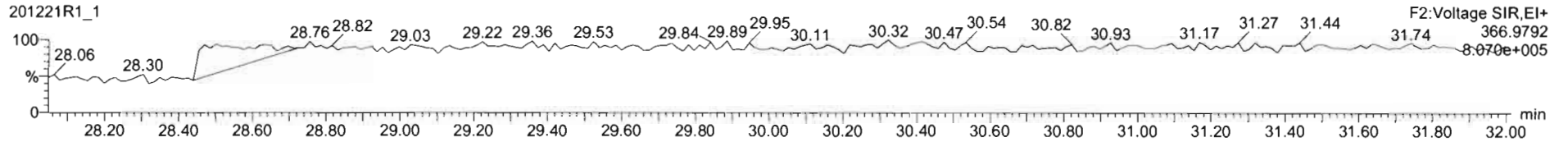
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Name: 201221R1_1, Date: 21-Dec-2020, Time: 07:25:05, ID: ST201221R1_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

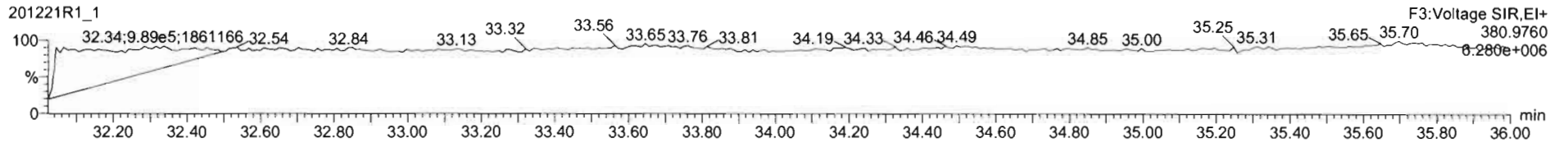
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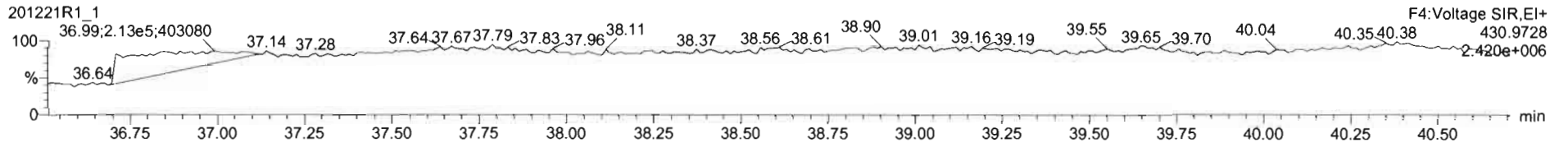
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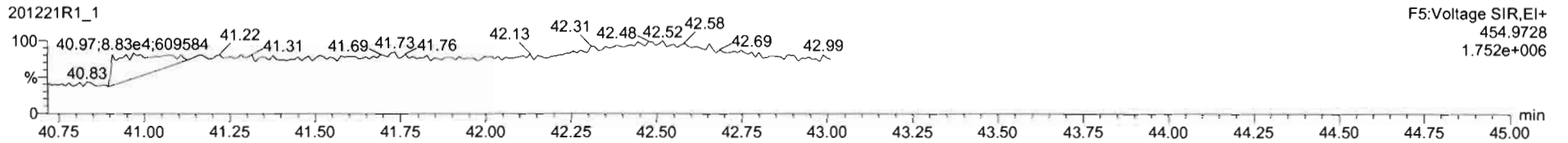
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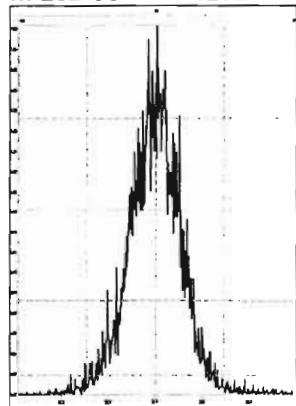


PFK5

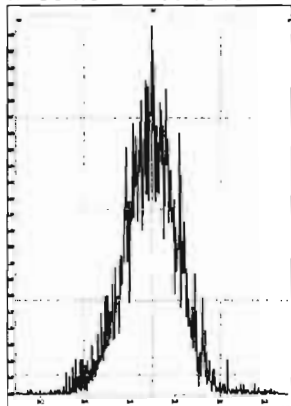


Printed: Monday, December 21, 2020 17:09:51 Pacific Standard Time

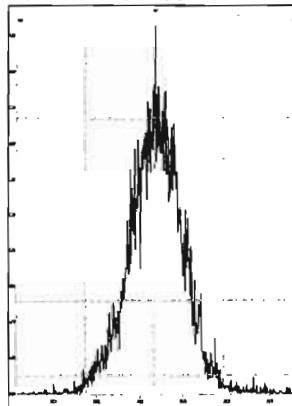
M 292.9824 R 12728



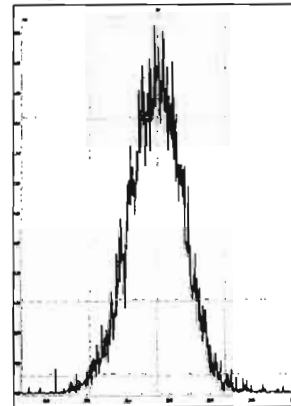
M 304.9824 R 13134



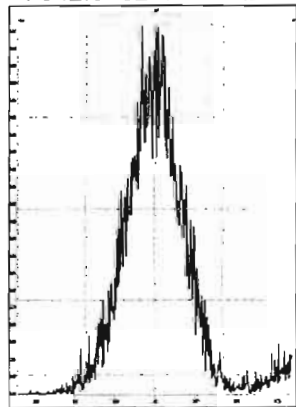
M 318.9792 R 11993



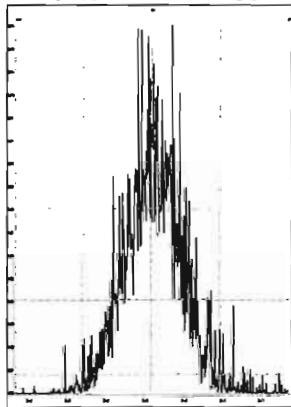
M 330.9792 R 11340



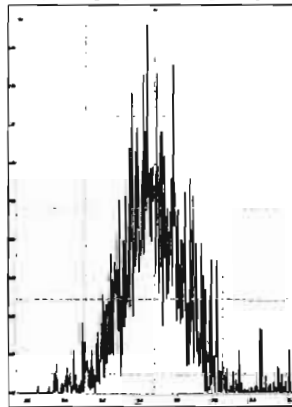
M 342.9792 R 12142



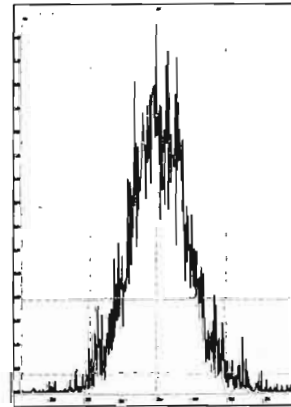
M 354.9792 R 12600



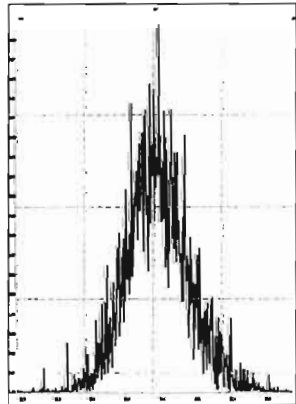
M 366.9792 R 13055



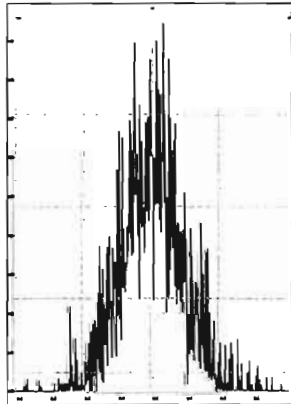
M 380.9760 R 10813



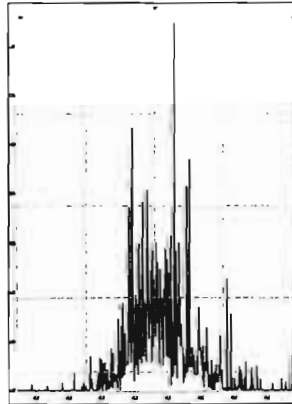
M 392.9760 R 11683



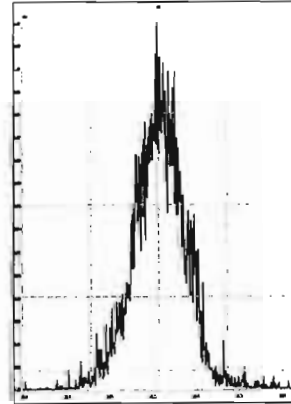
M 404.9760 R 15222



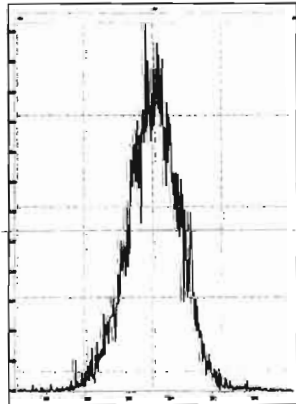
M 416.9760 R 28321



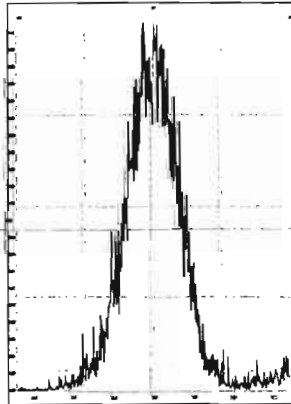
M 318.9792 R 12118



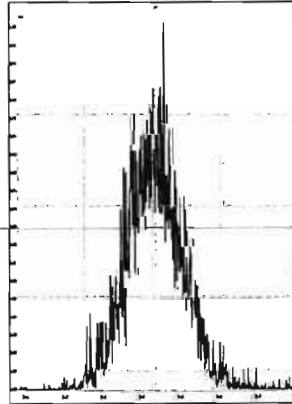
M 330.9792 R 11684



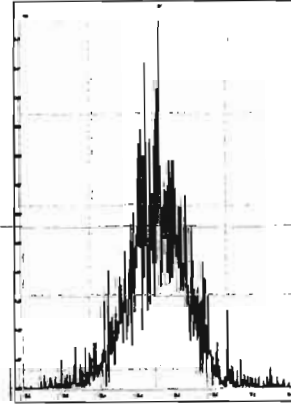
M 342.9792 R 11547



M 354.9792 R 12773

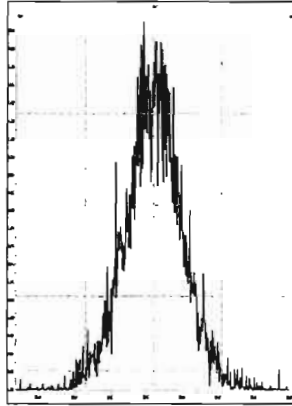


M 366.9792 R 14124

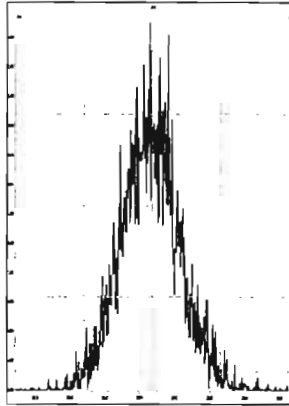


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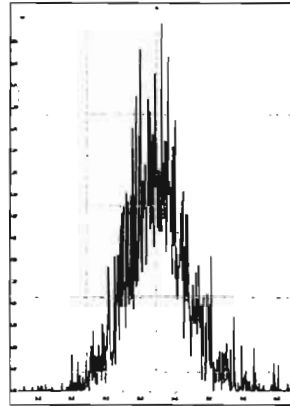
M 380.9760 R 12048



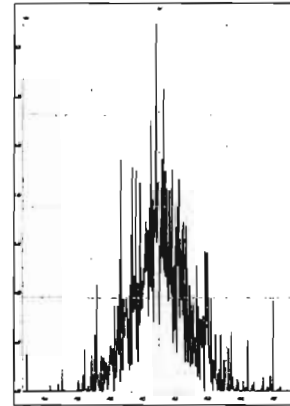
M 392.9760 R 11709



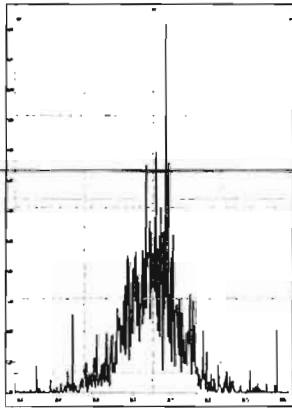
M 404.9760 R 13677



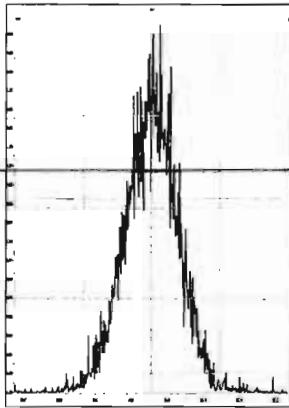
M 416.9760 R 16982



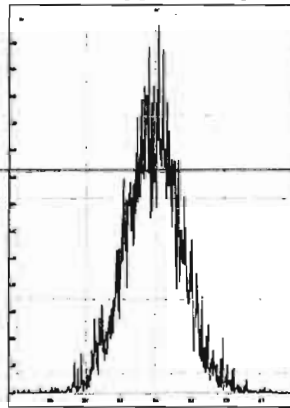
M 366.9792 R 14906



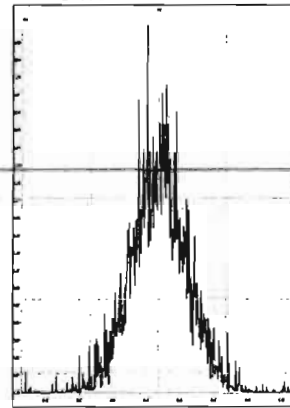
M 380.9760 R 11688



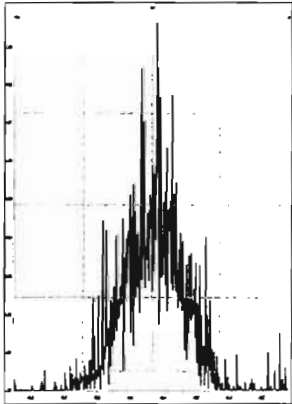
M 392.9760 R 11160



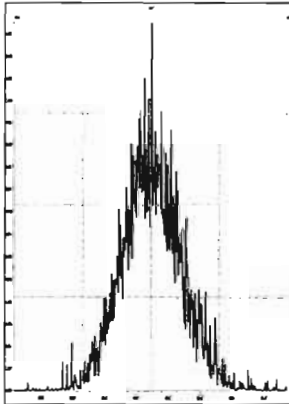
M 404.9760 R 13003



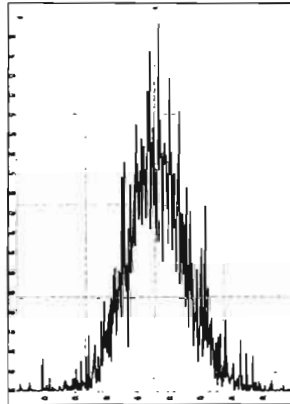
M 416.9760 R 13734



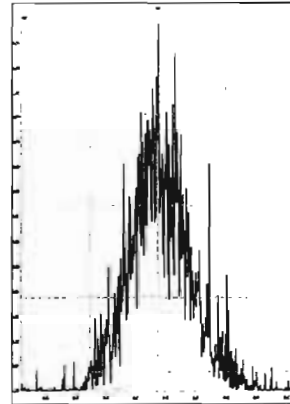
M 430.9728 R 10683



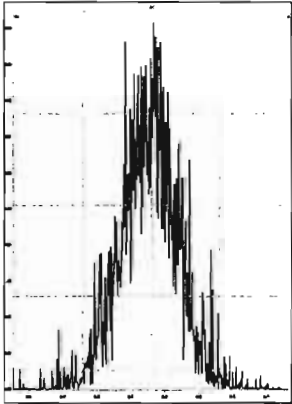
M 442.9728 R 11737



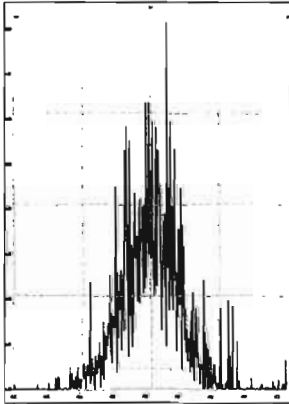
M 454.9728 R 12293



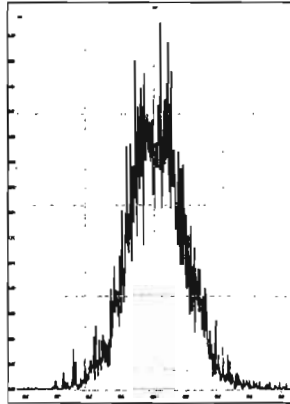
M 404.9760 R 12445



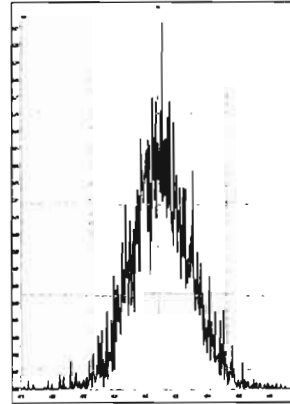
M 416.9760 R 14443



M 430.9728 R 11426

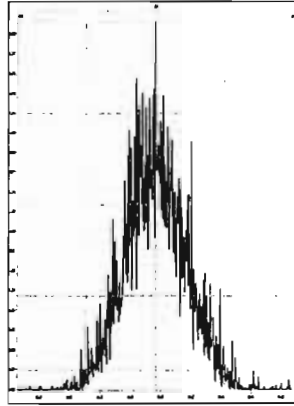


M 442.9728 R 12021

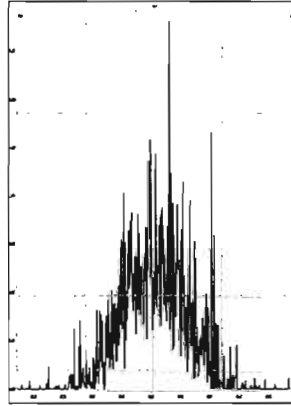


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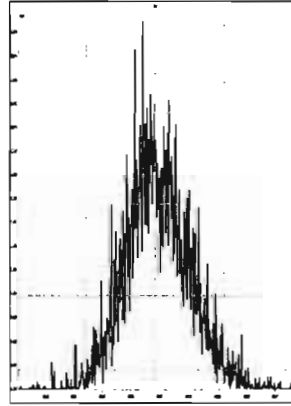
M 454.9728 R 11467



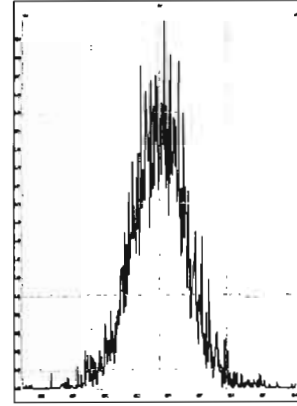
M 466.9728 R 13196



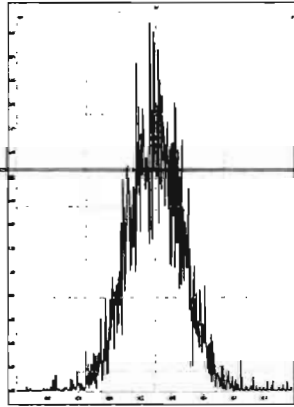
M 480.9696 R 12711



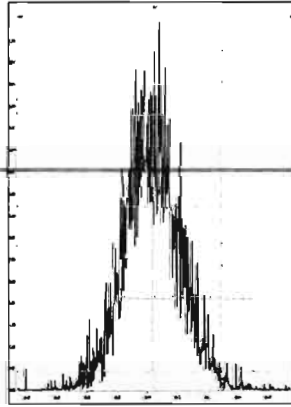
M 430.9728 R 12470



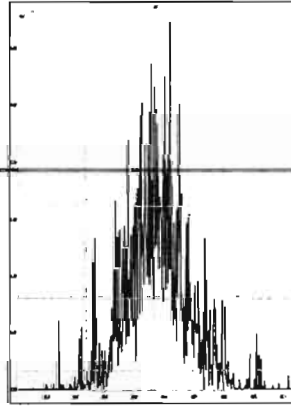
M 442.9728 R 12273



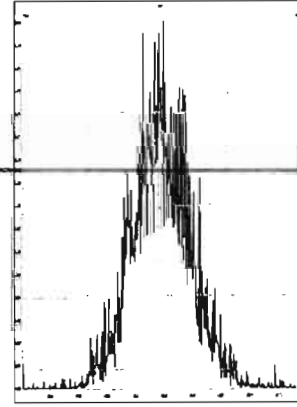
M 454.9728 R 13021



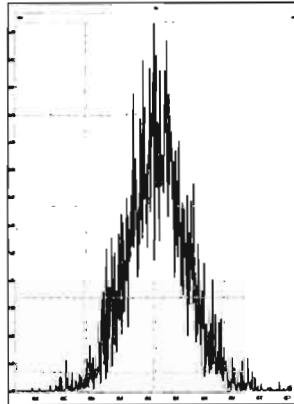
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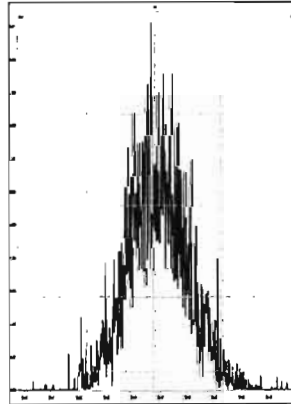
M 480.9696 R 11876



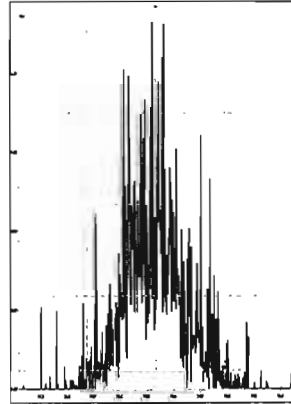
M 492.9696 R 12769



M 504.9696 R 12530



M 516.9697 R 18440



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

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: 1,2,3,7,8,9-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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Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

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

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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

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: 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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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: 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

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

Vista Analytical Laboratory

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

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Printed: Friday, December 04, 2020 11:37:44 Pacific Standard Time

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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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: 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

Vista Analytical Laboratory

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: 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

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: 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

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: 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

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

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

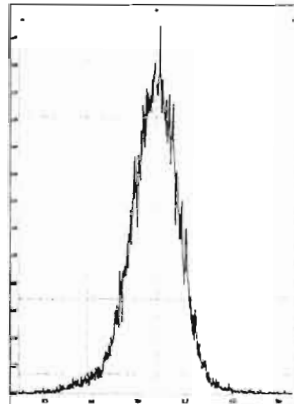
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14	201203R2_14	2002459-02 GW-1224 0.94848	03-Dec-20	20:47:27
15	201203R2_15	2002459-03 GW-1215 0.95546	03-Dec-20	21:32:21
16	201203R2_16	2002459-04 GW-1216 0.935	03-Dec-20	22:17:16
17	201203R2_17			
18	201203R2_18			
19	201203R2_19			
20	201203R2_20	SOLVENT BLANK	04-Dec-20	07:52:29
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(A) Oven door open, run paused LHM 12/04/2020

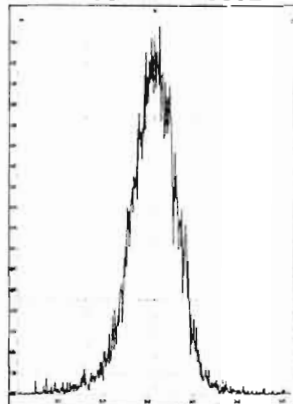
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Printed: Thursday, December 03, 2020 10:30:53 Pacific Standard Time

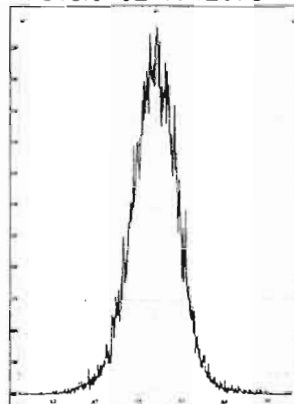
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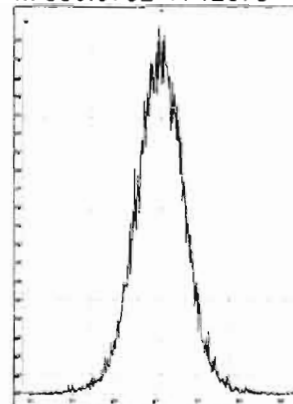
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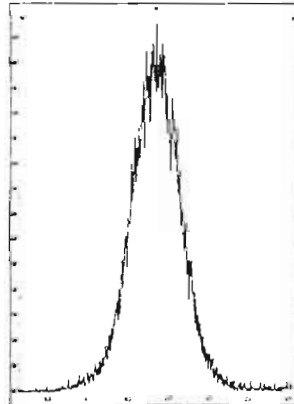
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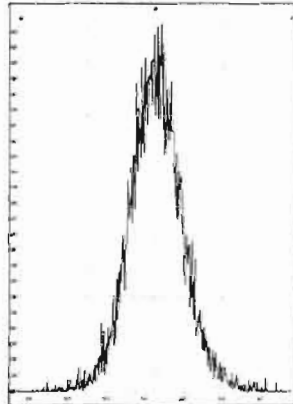
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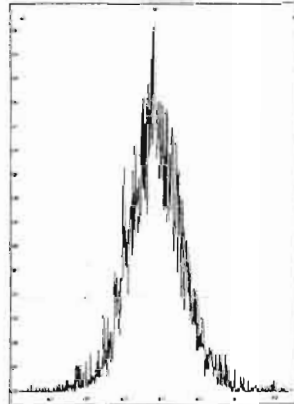
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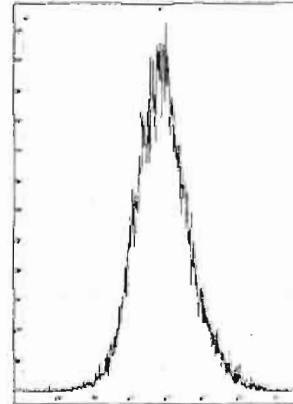
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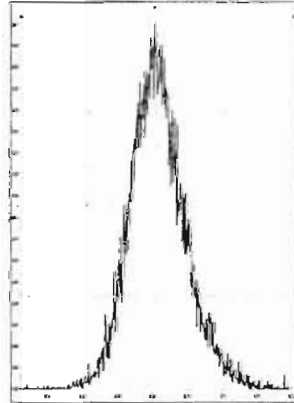
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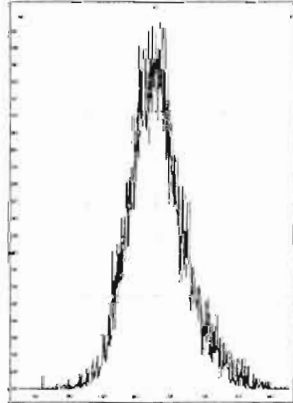
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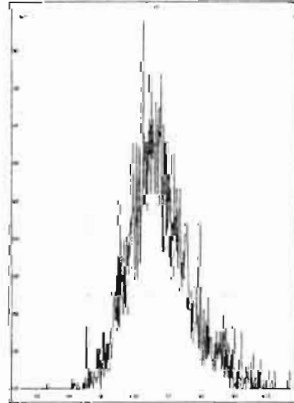
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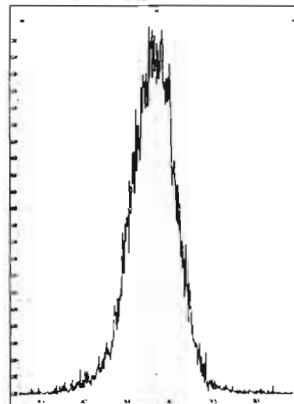
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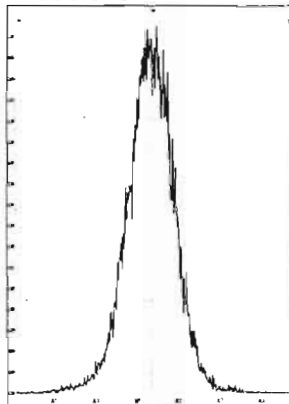
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Printed: Thursday, December 03, 2020 10:32:05 Pacific Standard Time

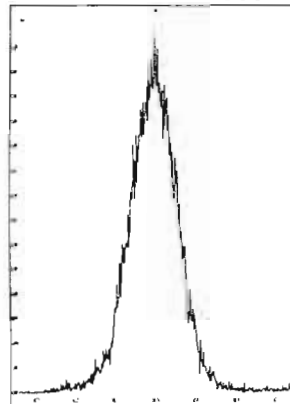
M 318.9792 R 12626



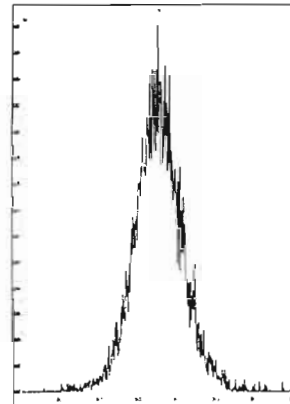
M 330.9792 R 12258



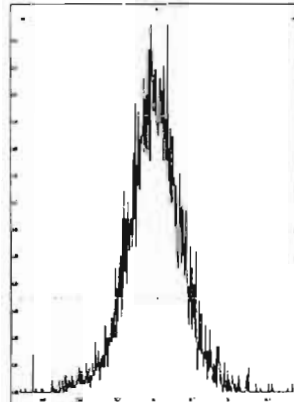
M 342.9792 R 11900



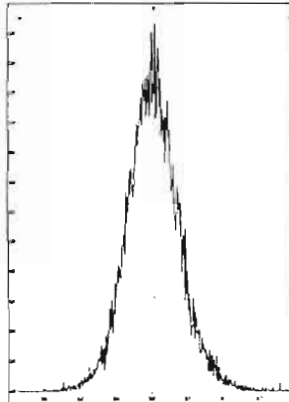
M 354.9792 R 12561



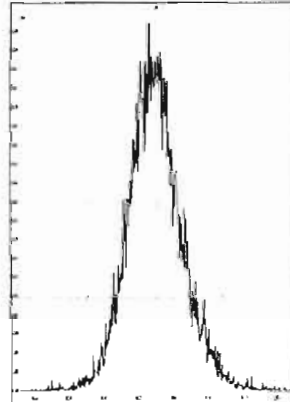
M 366.9792 R 12888



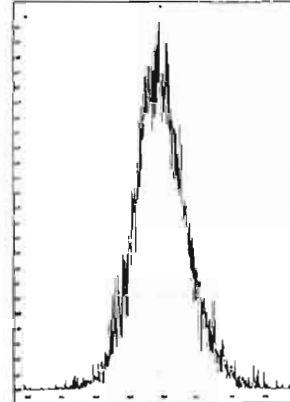
M 380.9760 R 11520



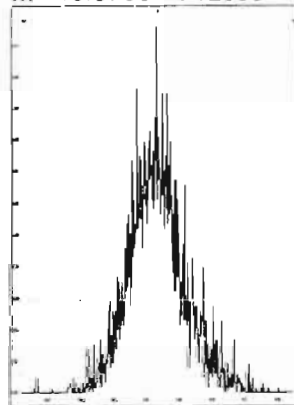
M 392.9760 R 11208



M 404.9760 R 11961



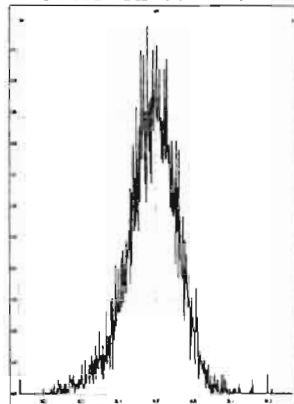
M 416.9760 R 12955



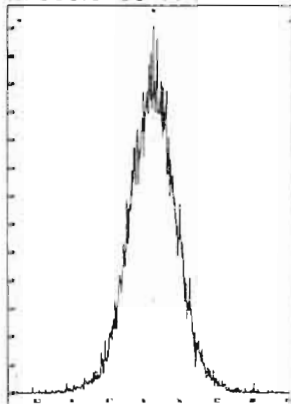
File: Experiment: OCDD_DIOXIN.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Thursday, December 03, 2020 10:33:04 Pacific Standard Time

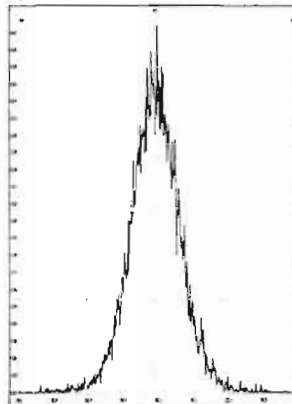
M 366.9792 R 11850



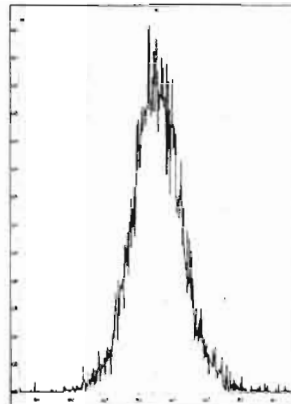
M 380.9760 R 11737



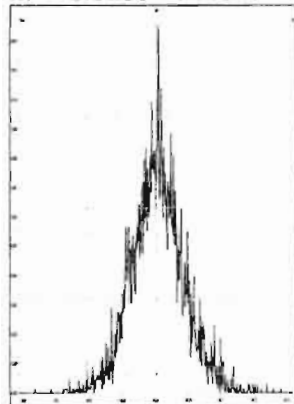
M 392.9760 R 12498



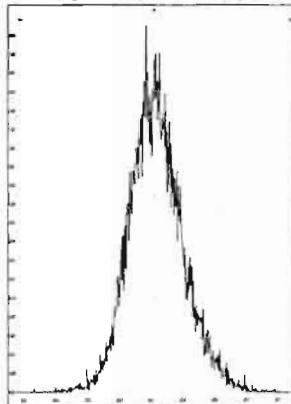
M 404.9760 R 11845



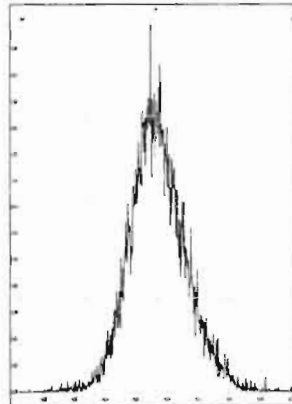
M 416.9760 R 11847



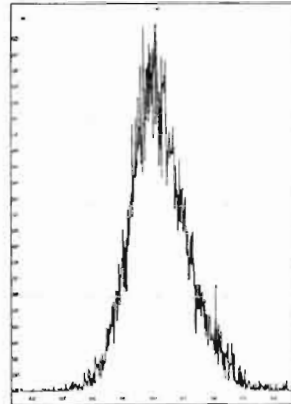
M 430.9728 R 11063



M 442.9728 R 10593



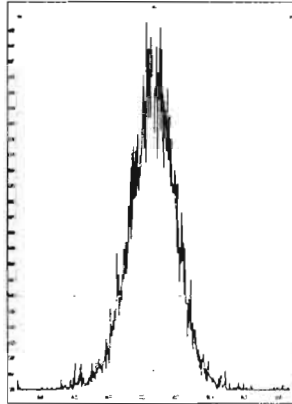
M 454.9728 R 10546



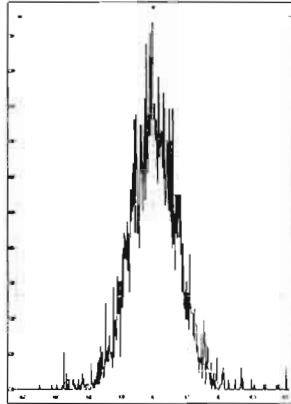
File: Experiment: OCDD_DIOXIN.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Thursday, December 03, 2020 10:33:57 Pacific Standard Time

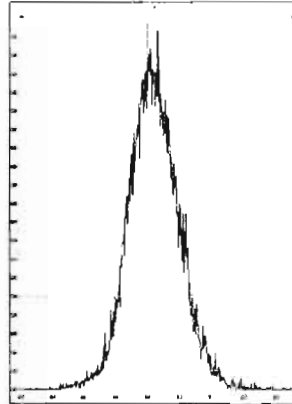
M 404.9760 R 13017



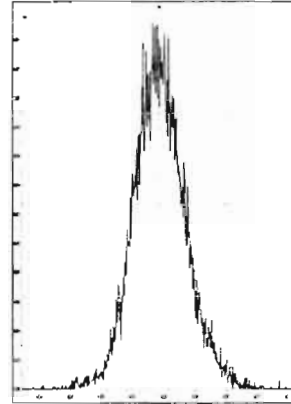
M 416.9760 R 13586



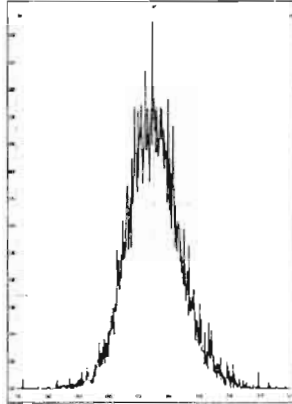
M 430.9728 R 12313



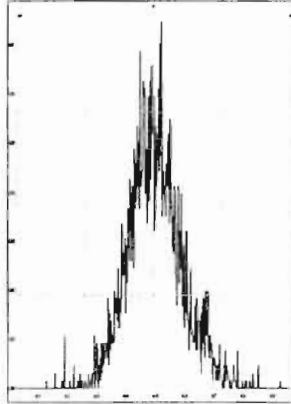
M 442.9728 R 11682



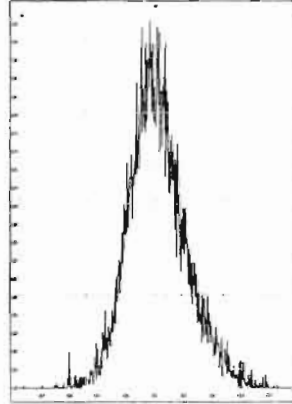
M 454.9728 R 11681



M 466.9728 R 11679



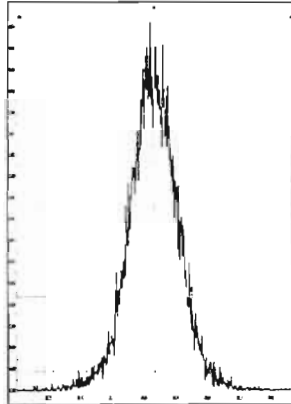
M 480.9696 R 11363



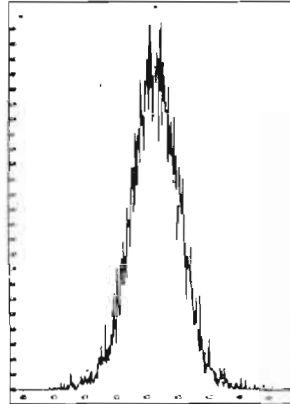
File: Experiment: OCDD_DIOXIN.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Thursday, December 03, 2020 10:34:39 Pacific Standard Time

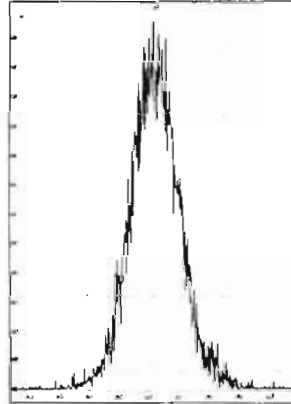
M 430.9728 R 13441



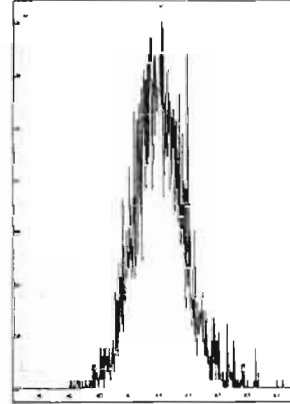
M 442.9728 R 12952



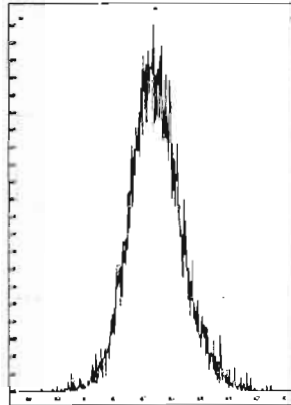
M 454.9728 R 12687



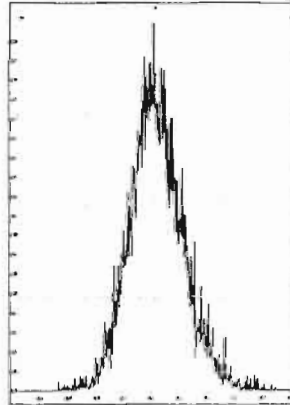
M 466.9728 R 13966



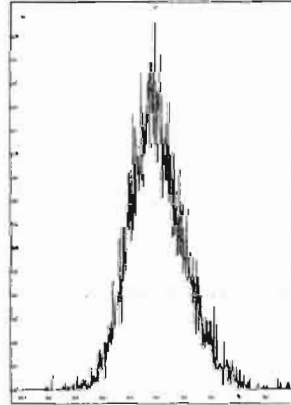
M 480.9696 R 12021



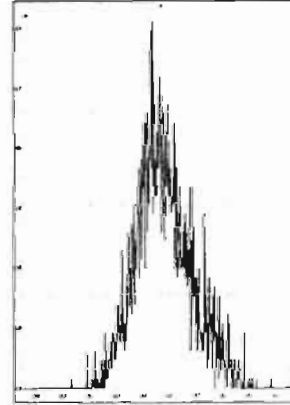
M 492.9696 R 11261



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

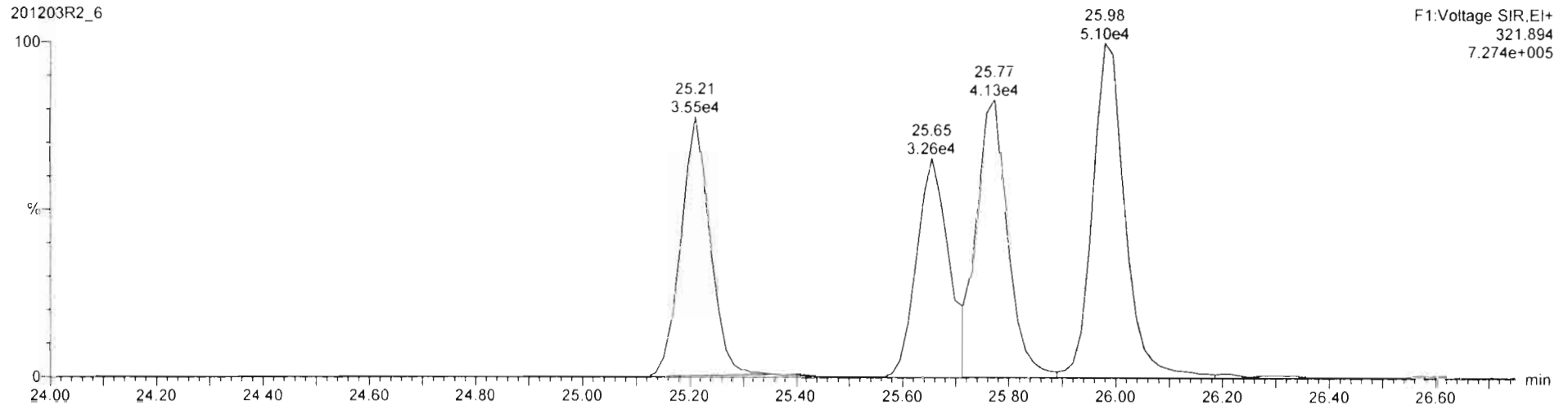
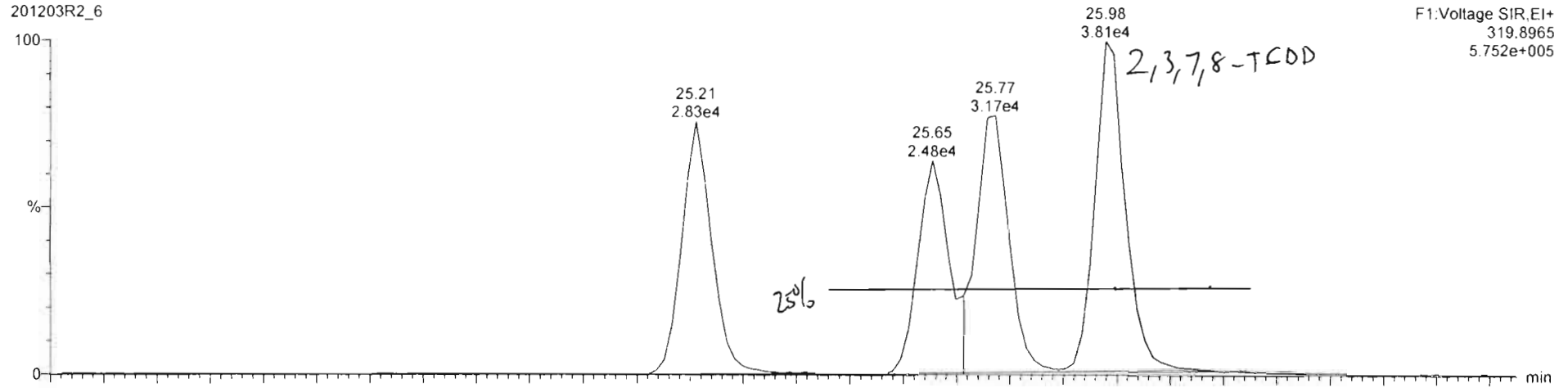
Last Altered: Friday, December 04, 2020 12:14:23 Pacific Standard Time
Printed: Friday, December 04, 2020 12:21:02 Pacific Standard Time

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

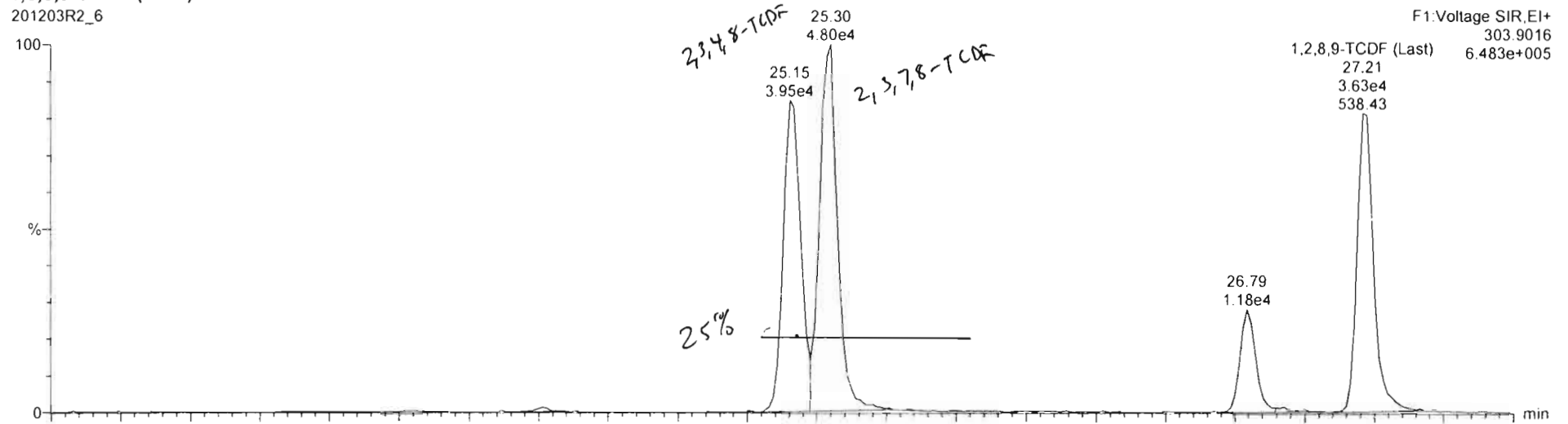
Last Altered: Friday, December 04, 2020 12:14:23 Pacific Standard Time
Printed: Friday, December 04, 2020 12:21:02 Pacific Standard Time

FIN 12/04/2020

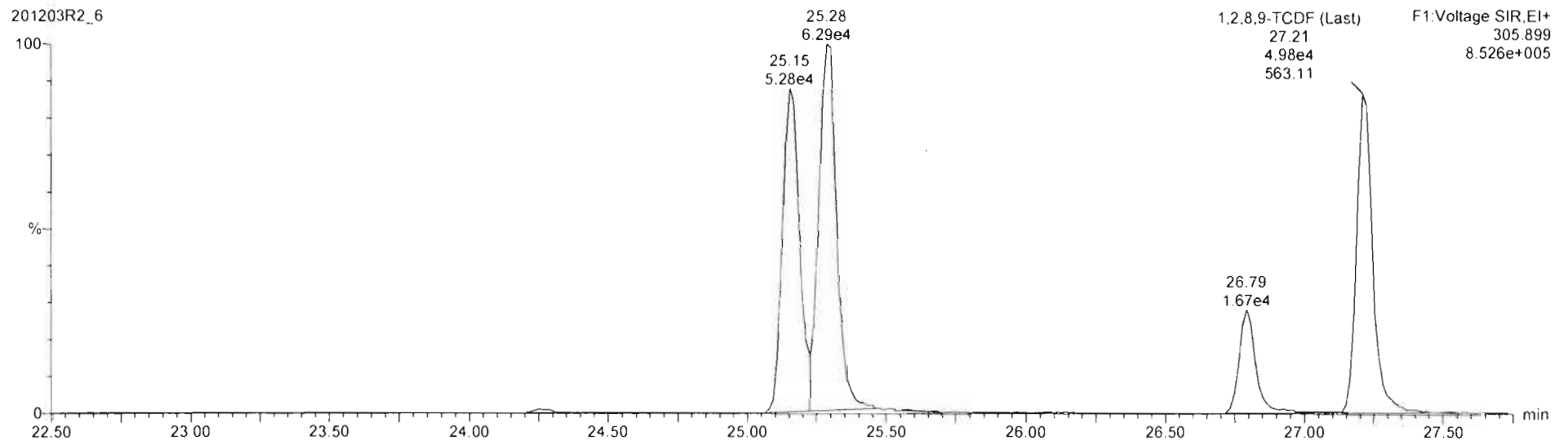
Name: 201203R2_6, Date: 03-Dec-2020, Time: 14:35:05, ID: ST201203R2_6 1613 CS3 20L0301, Description: 1613 CS3 20L0301

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

201203R2_6



201203R2_6



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

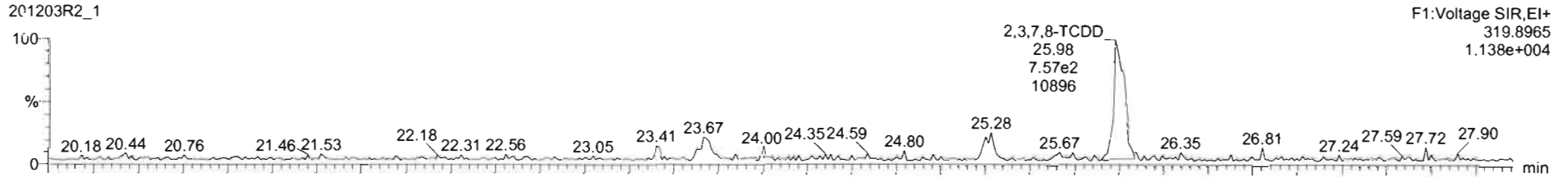
Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

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

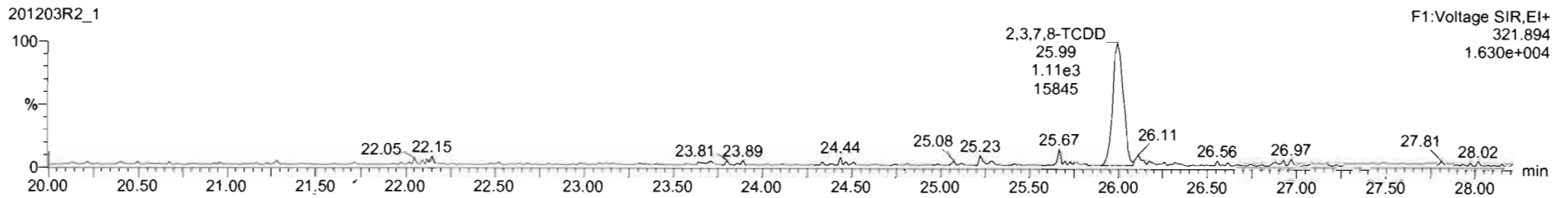
Name: 201203R2_1, Date: 03-Dec-2020, Time: 10:36:45, ID: ST201203R2_1 1613 CS0 20K1901, Description: 1613 CS0 20K1901

2,3,7,8-TCDD

201203R2_1

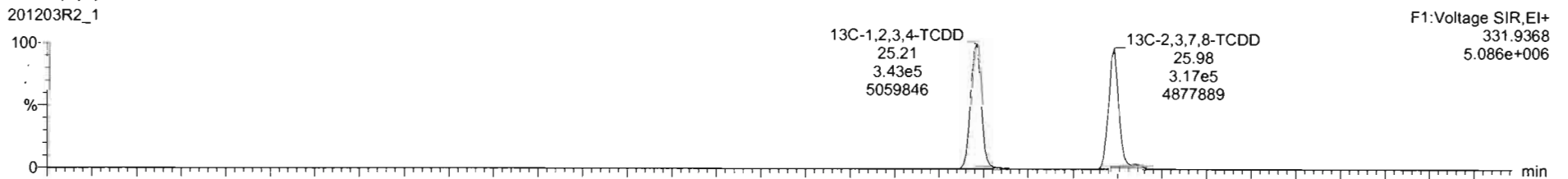


201203R2_1

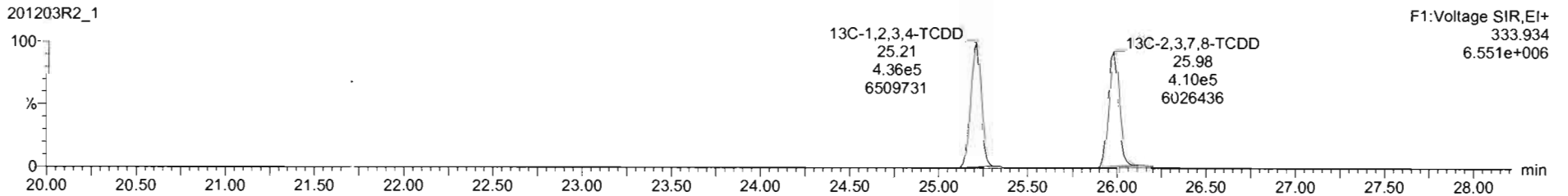


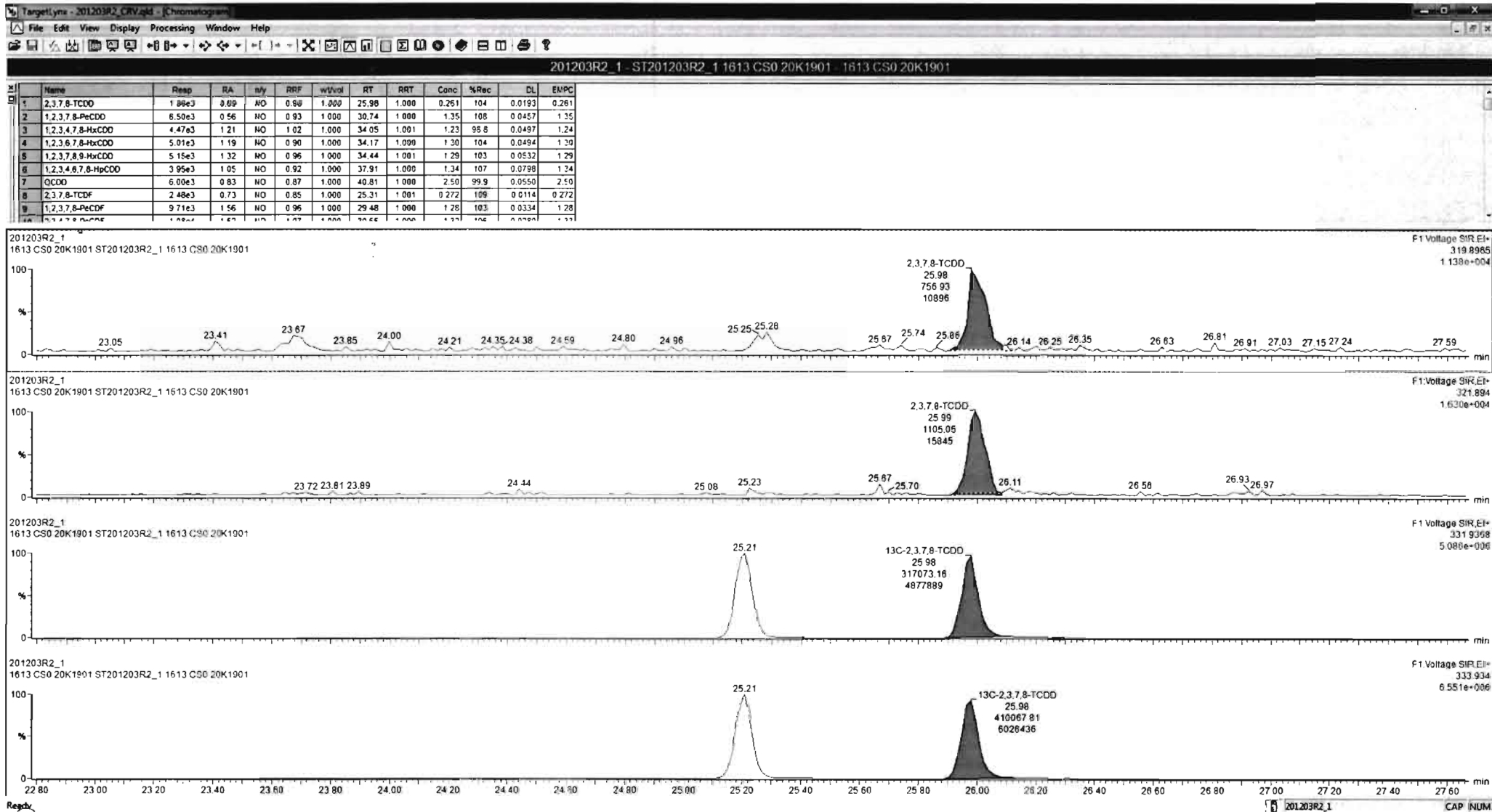
13C-2,3,7,8-TCDD

201203R2_1



201203R2_1





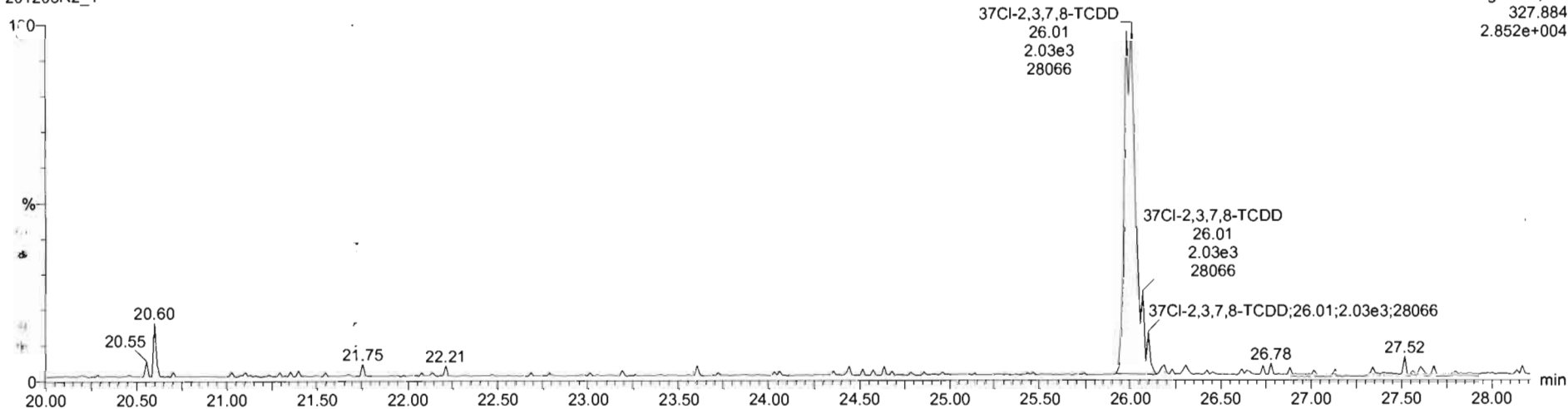
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Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_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

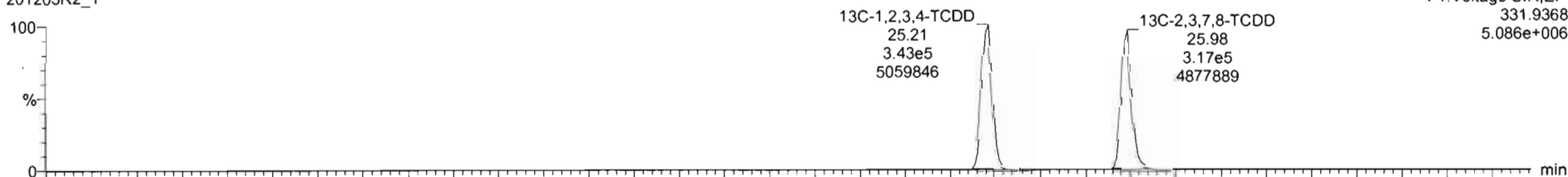
201203R2_1



F1: Voltage SIR, EI+
327.884
2.852e+004

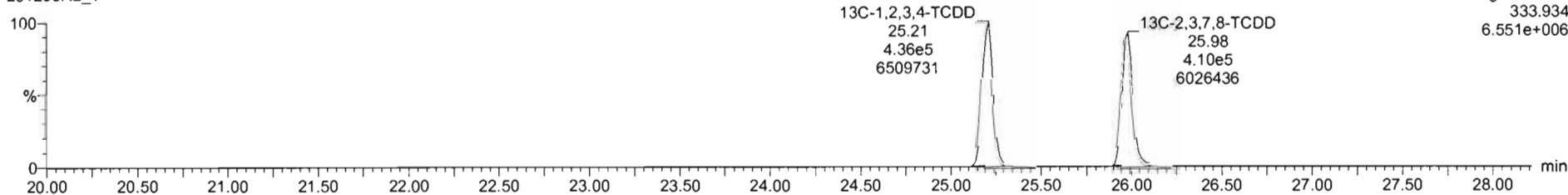
13C-1,2,3,4-TCDD

201203R2_1



F1: Voltage SIR, EI+
331.9368
5.086e+006

201203R2_1



F1: Voltage SIR, EI+
333.934
6.551e+006

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

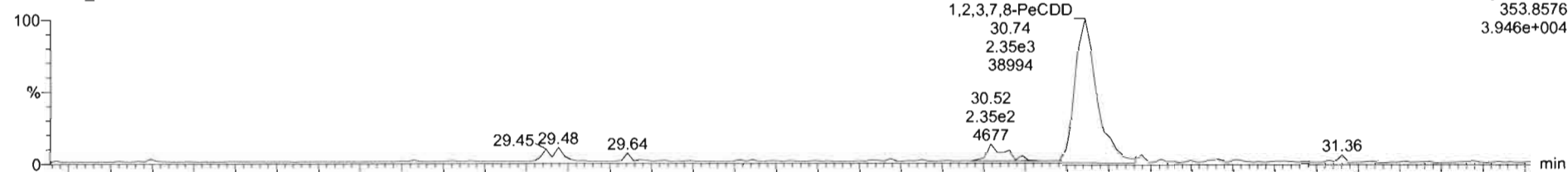
Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time

Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_1, Date: 03-Dec-2020, Time: 10:36:45, ID: ST201203R2_1 1613 CS0 20K1901, Description: 1613 CS0 20K1901

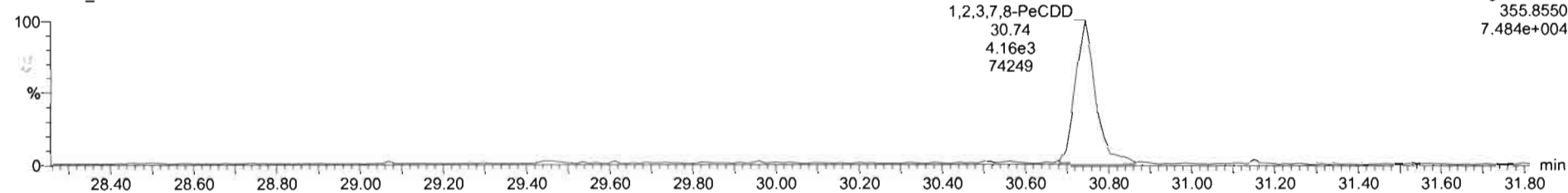
1,2,3,7,8-PeCDD

201203R2_1



F2: Voltage SIR, EI+
353.8576
3.946e+004

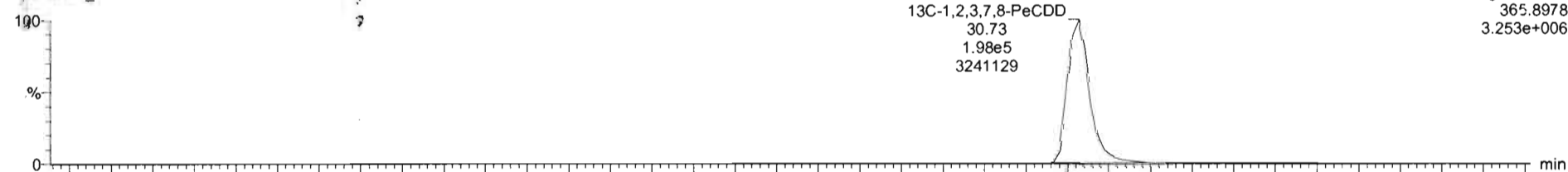
201203R2_1



F2: Voltage SIR, EI+
355.8550
7.484e+004

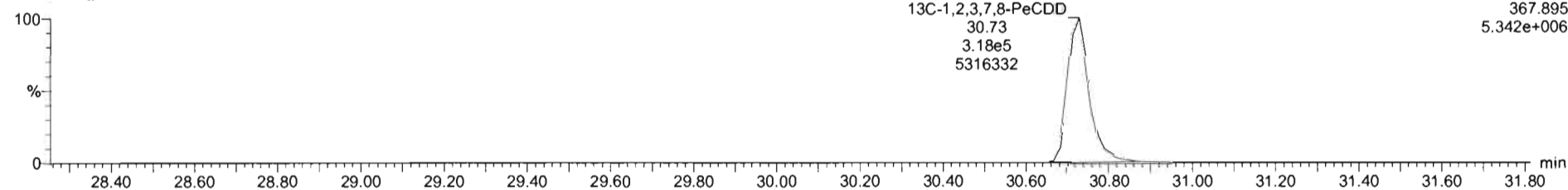
13C-1,2,3,7,8-PeCDD

201203R2_1



F2: Voltage SIR, EI+
365.8978
3.253e+006

201203R2_1



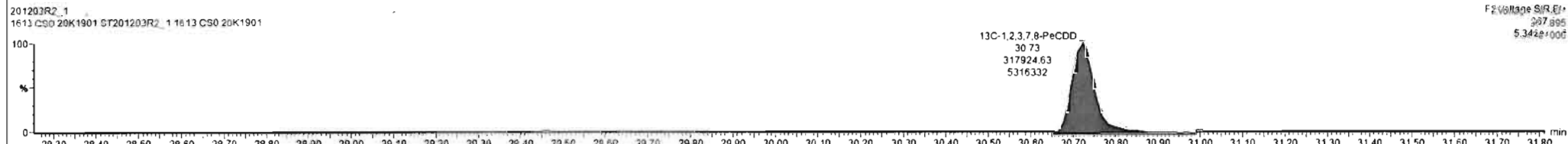
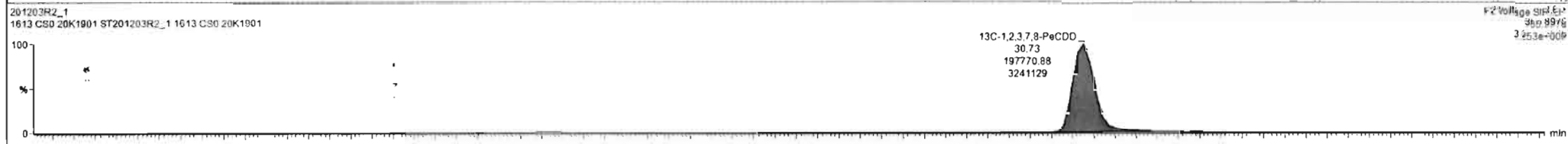
F2: Voltage SIR, EI+
367.895
5.342e+006

Target: yms - 201203R2_CIV.gd - Chromatogram

File Edit View Display Processing Window Help

201203R2_1 - ST201203R2_1 1613 CS0 20K1901 1613 CS0 20K1901

Name	Resp	RA	sy	RRF	wt/wt	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	1.22	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
10 1,2,3,7,8-PeCDF	1.00e3	1.67	NO	1.07	1.000	33.68	1.000	1.37	106	0.0384	1.37



Regch 201203R2_1 CAP NUM

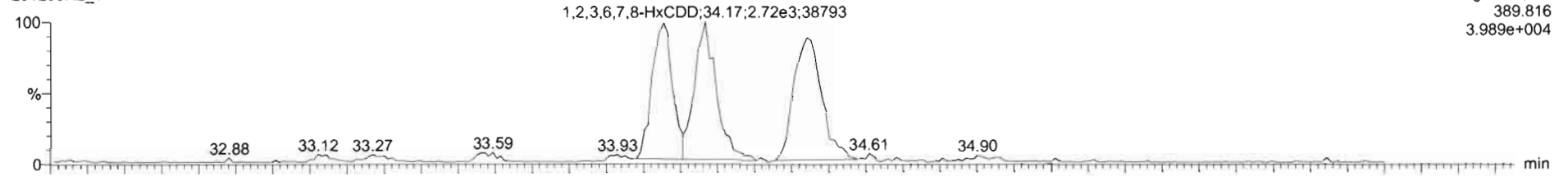
Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

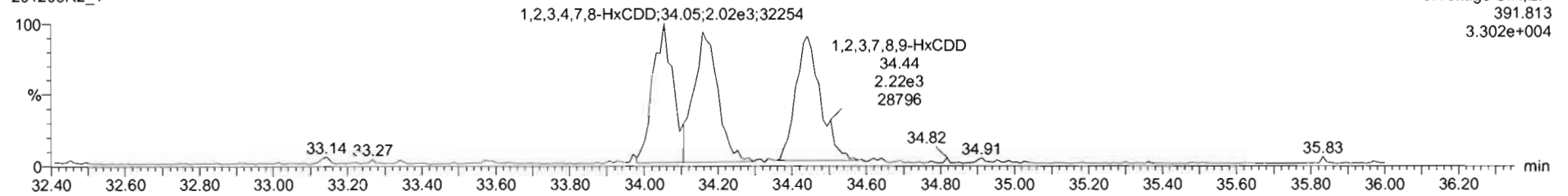
Name: 201203R2_1, Date: 03-Dec-2020, Time: 10:36:45, ID: ST201203R2_1 1613 CS0 20K1901, Description: 1613 CS0 20K1901

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

201203R2_1

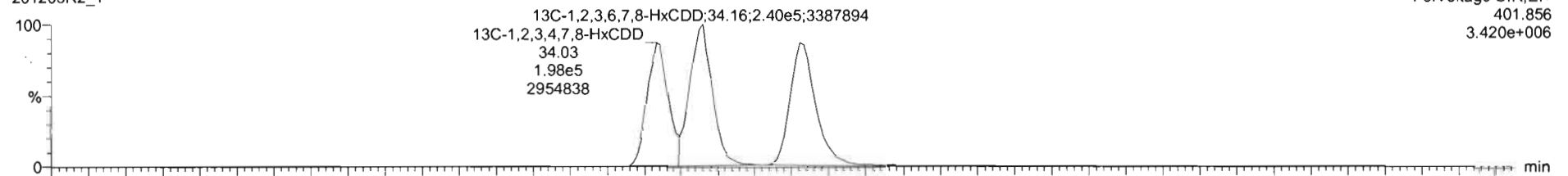


201203R2_1

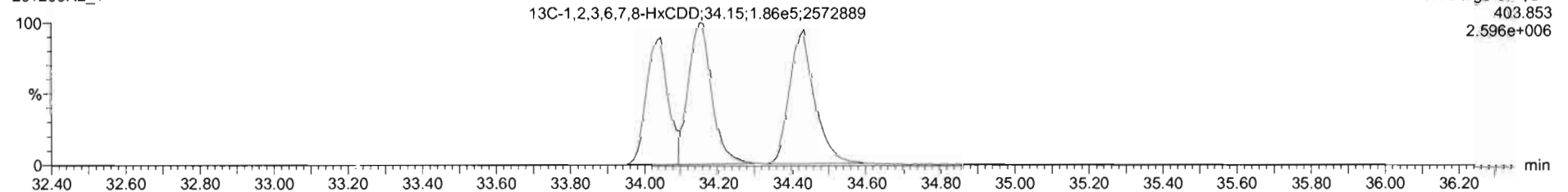


¹³C-1,2,3,4,7,8-HxCDD

201203R2_1



201203R2_1

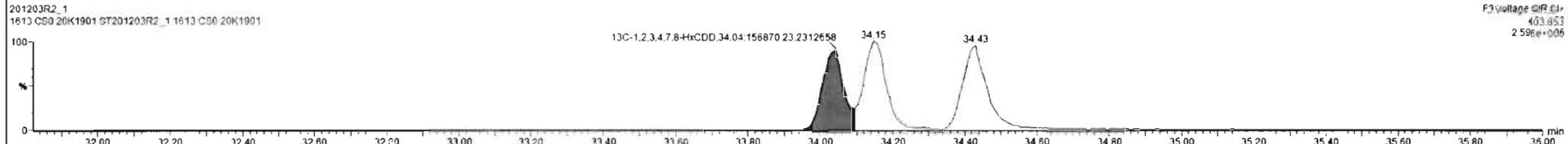
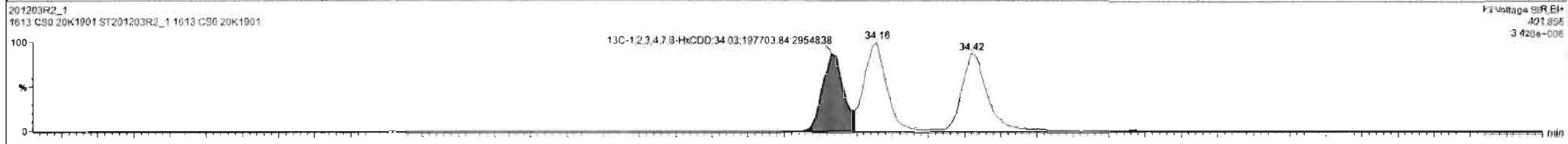
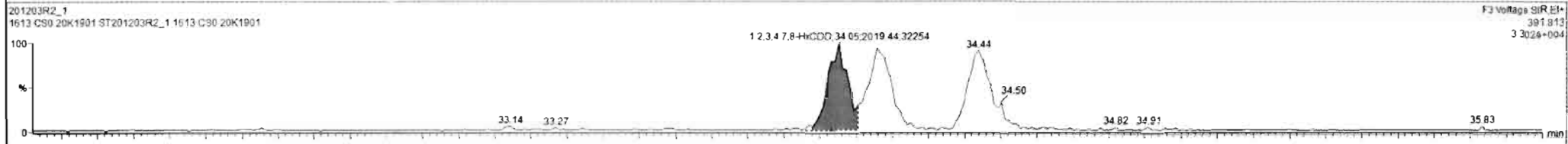
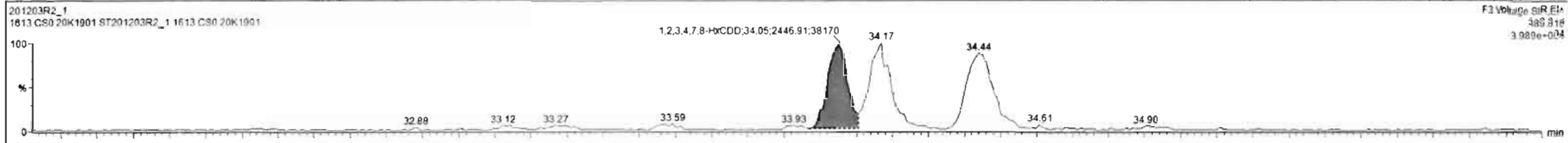


TargetLynx - 201203R2_CRV.qld - [Chromatogram]

File Edit View Display Processing Window Help

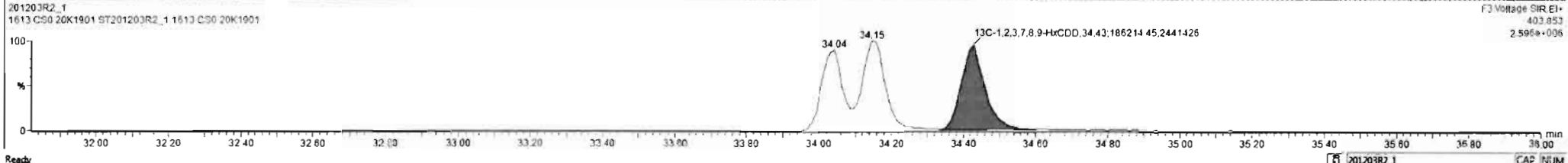
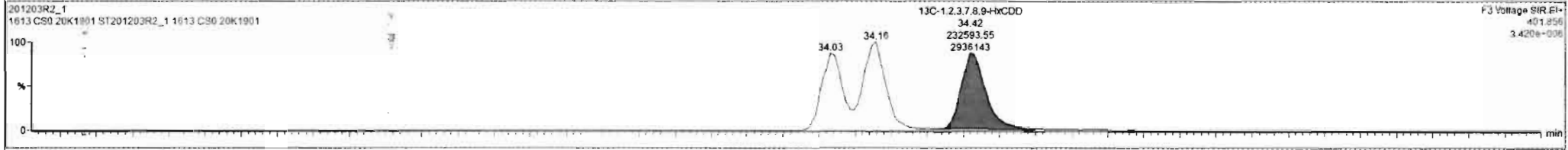
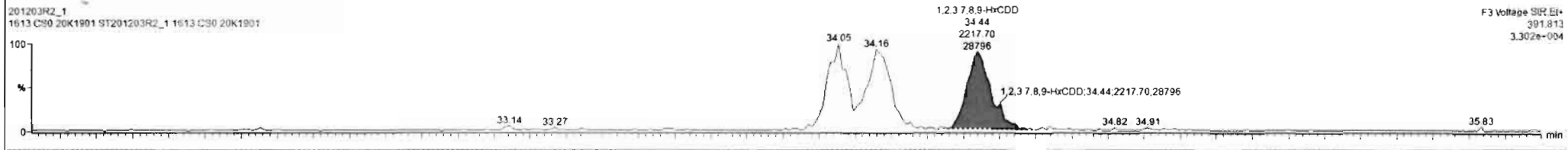
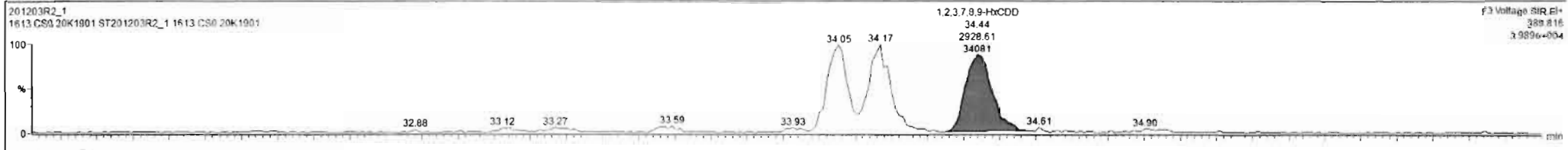
201203R2_1 - ST201203R2_1 1613 CS0 20K1901 - 1613 CS0 20K1901

Name	Resp	RA	My	RRF	wVvsl	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



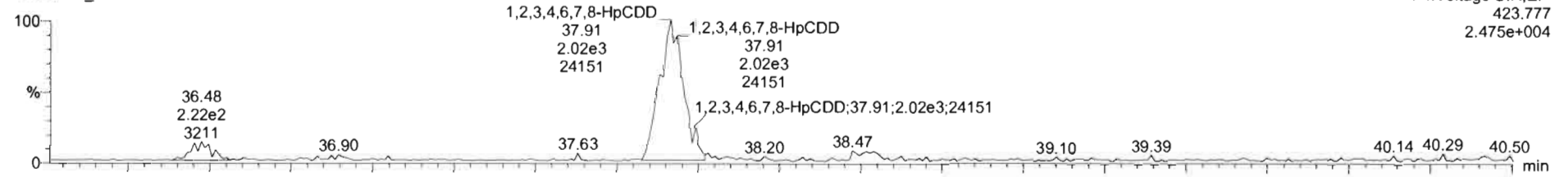
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

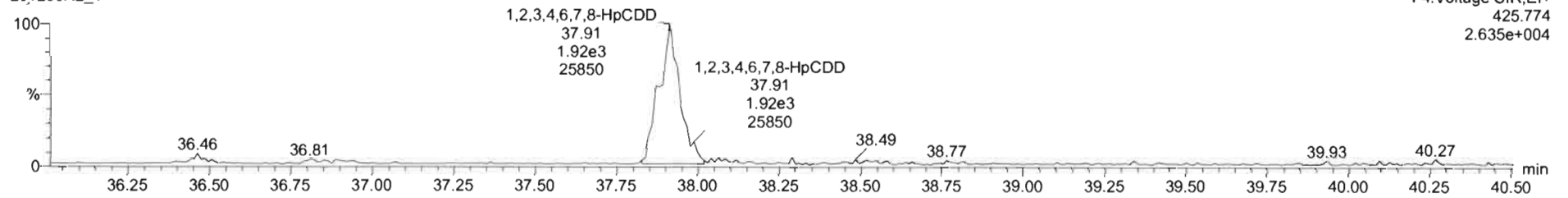
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1,2,3,4,6,7,8-HpCDD

201203R2_1

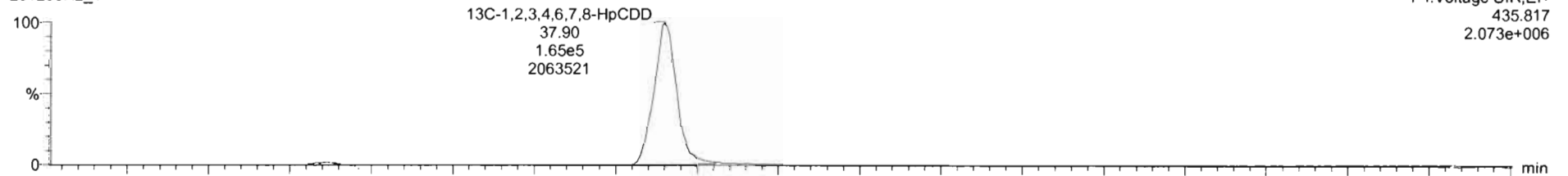


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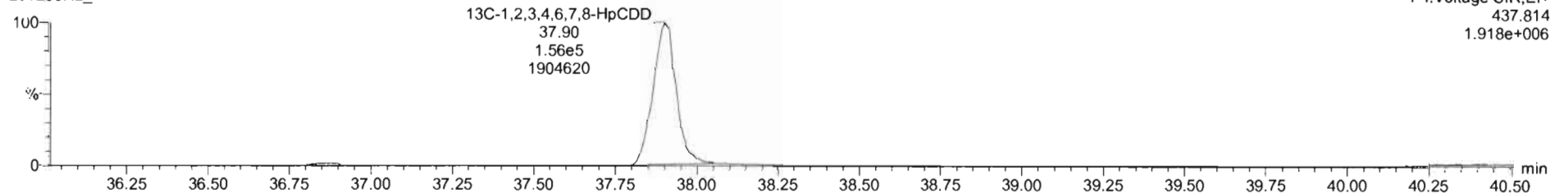


13C-1,2,3,4,6,7,8-HpCDD

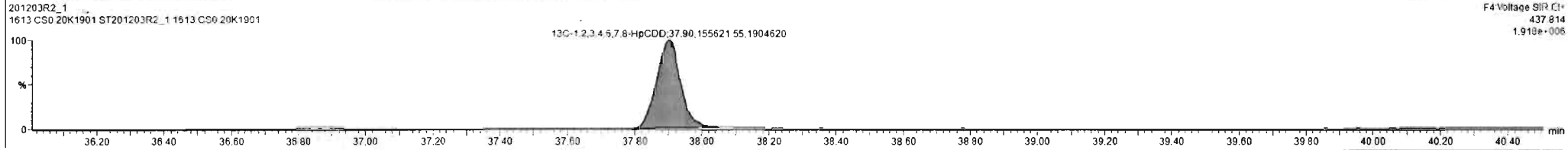
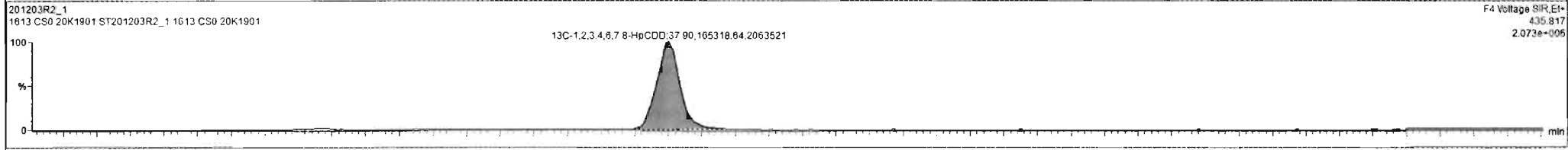
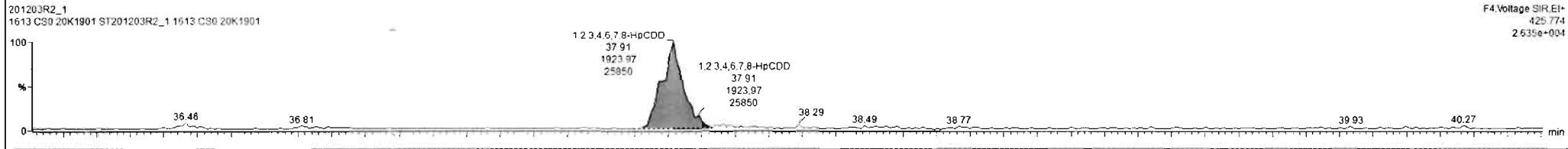
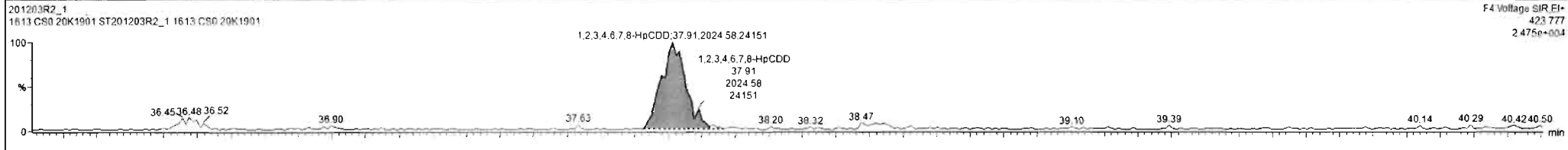
201203R2_1



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

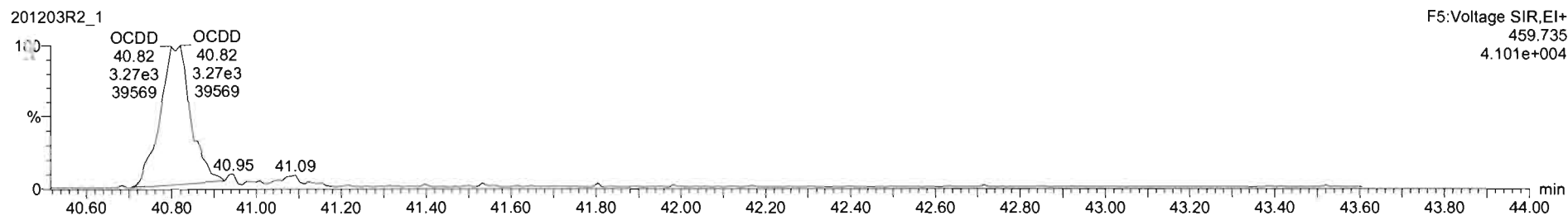
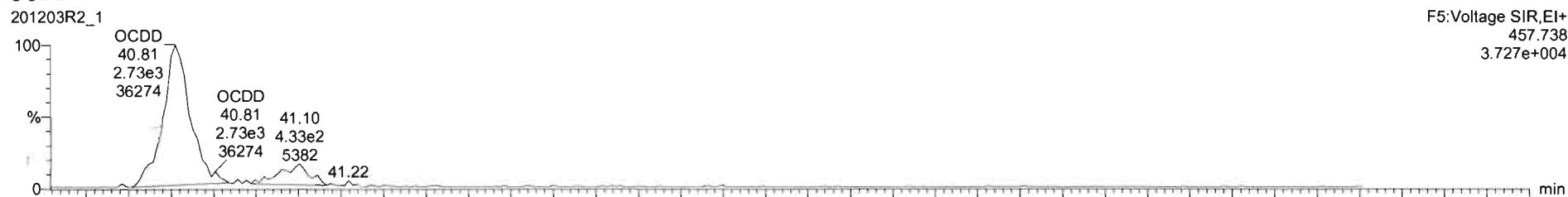


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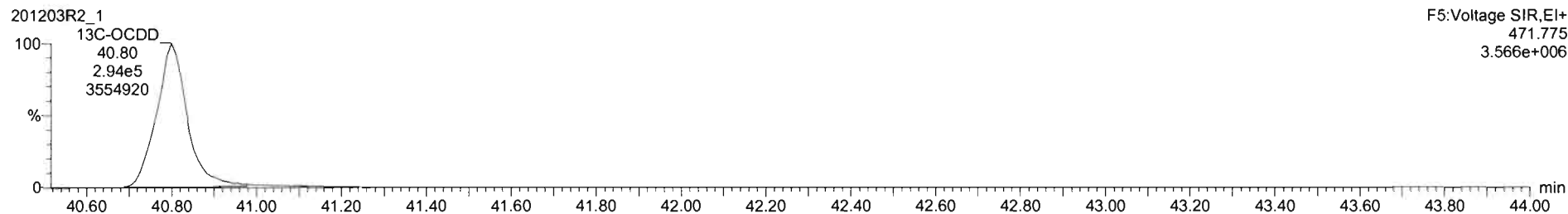
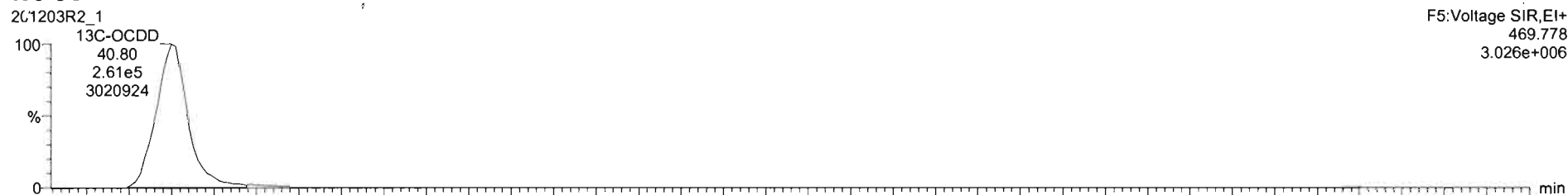
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OCDD

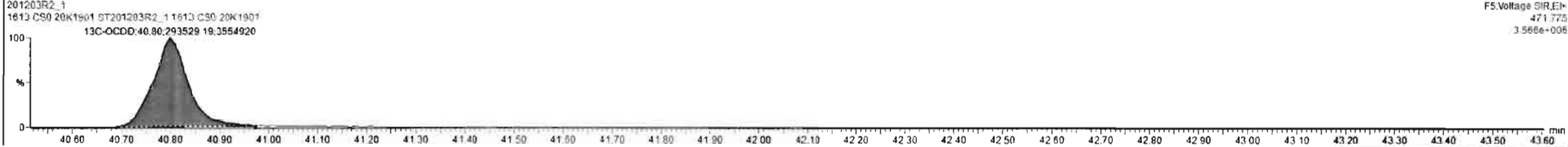


1. C-OCDD



201203R2_1 - ST201203R2_1 1613 CS0 20K1901 - 1613 CS0 20K1901

Name	Resp	RA	ivy	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	0.0532	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	1.24
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

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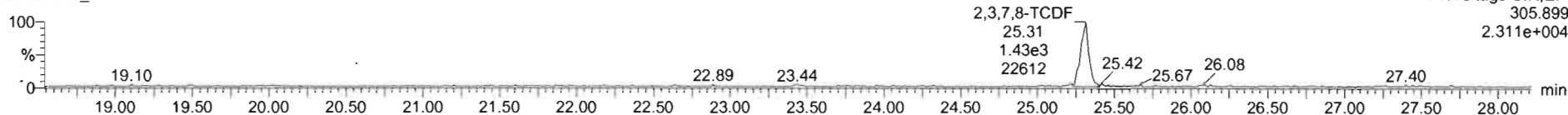
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2,3,7,8-TCDF

201203R2_1

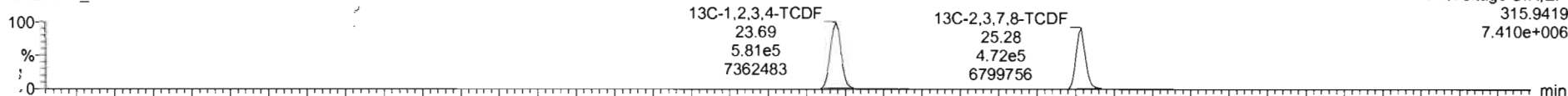


201203R2_1

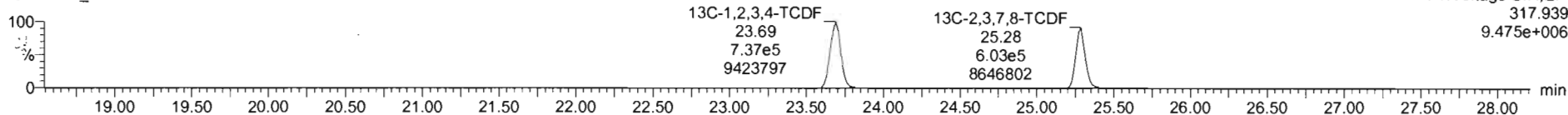


13C-2,3,7,8-TCDF

201203R2_1

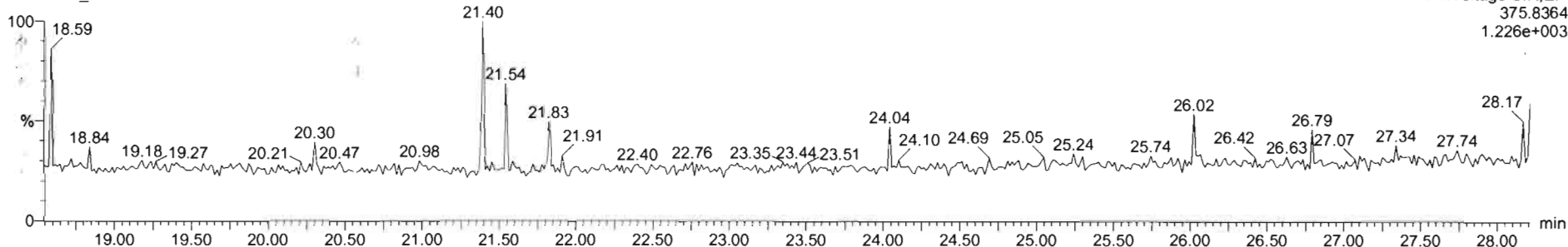


201203R2_1



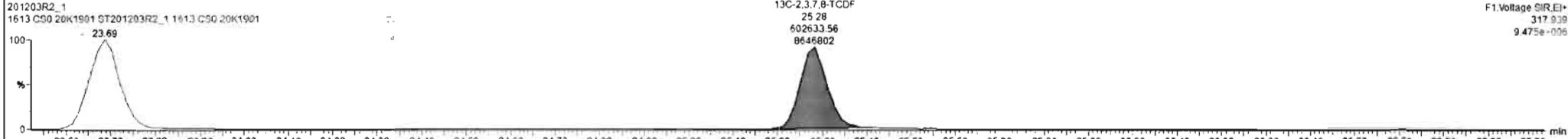
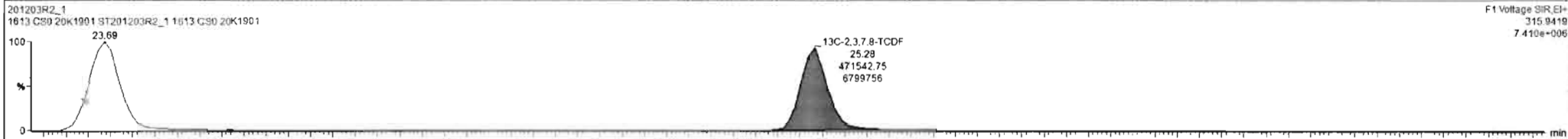
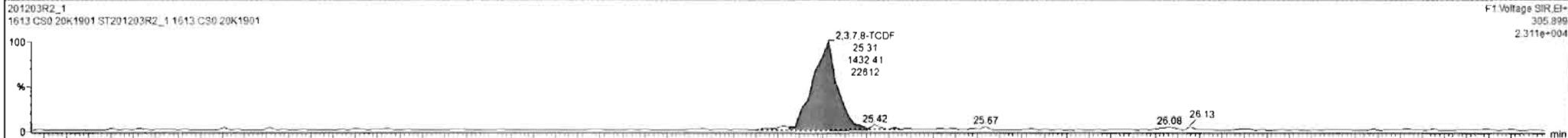
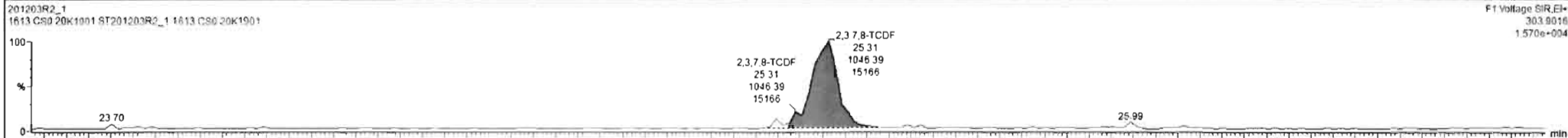
DPE1

201203R2_1



201203R2_1 - ST201203R2_1 1613 CS0 20K1901 - 1613 CS0 20K1901

#	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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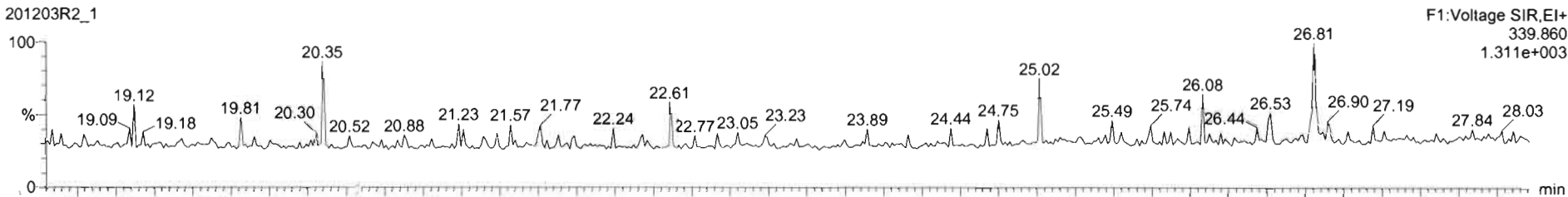
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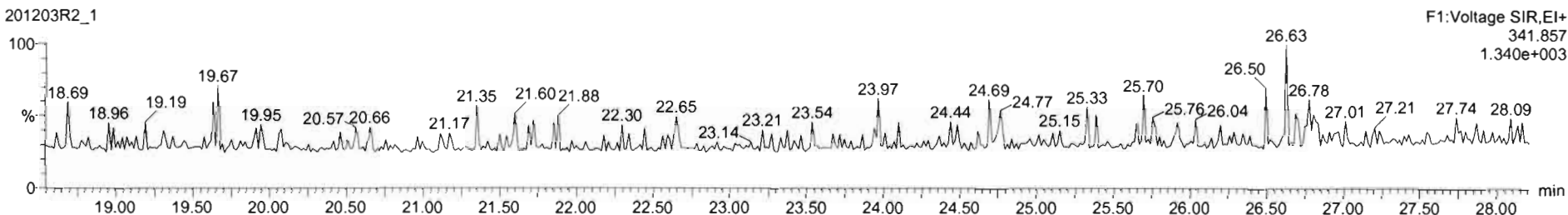
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1st Func. Penta-Furans

201203R2_1

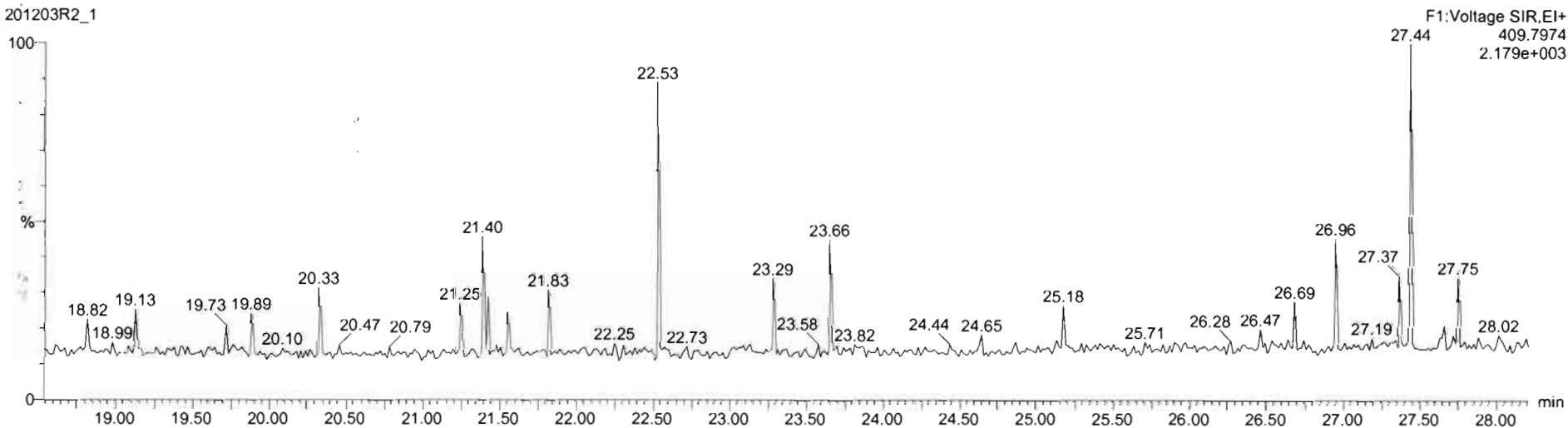


201203R2_1



DPE6

201203R2_1



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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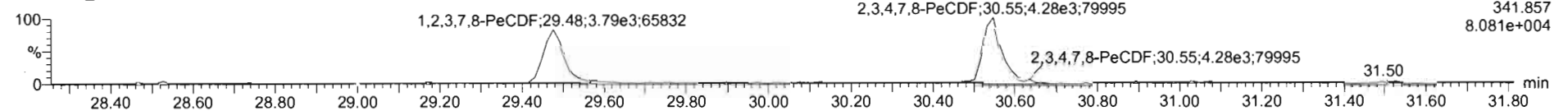
1,2,3,7,8-PeCDF

201203R2_1



F2:Voltage SIR,EI+
339.860
1.212e+005

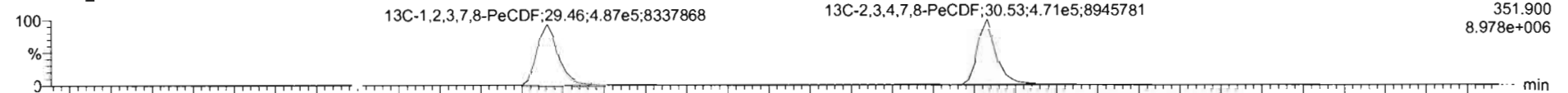
201203R2_1



F2:Voltage SIR,EI+
341.857
8.081e+004

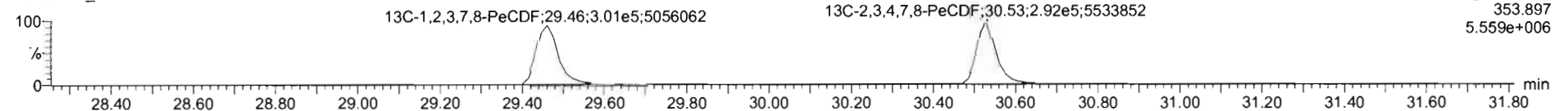
13C-1,2,3,7,8-PeCDF

201203R2_1



F2:Voltage SIR,EI+
351.900
8.978e+006

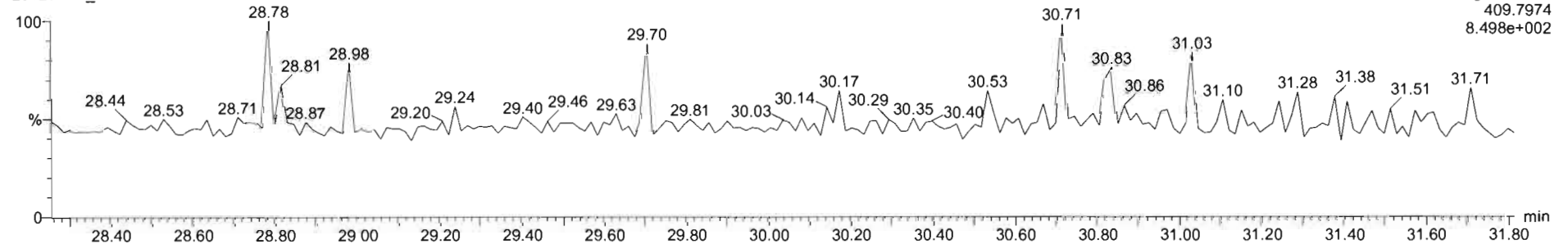
201203R2_1



F2:Voltage SIR,EI+
353.897
5.559e+006

DPE2

201203R2_1



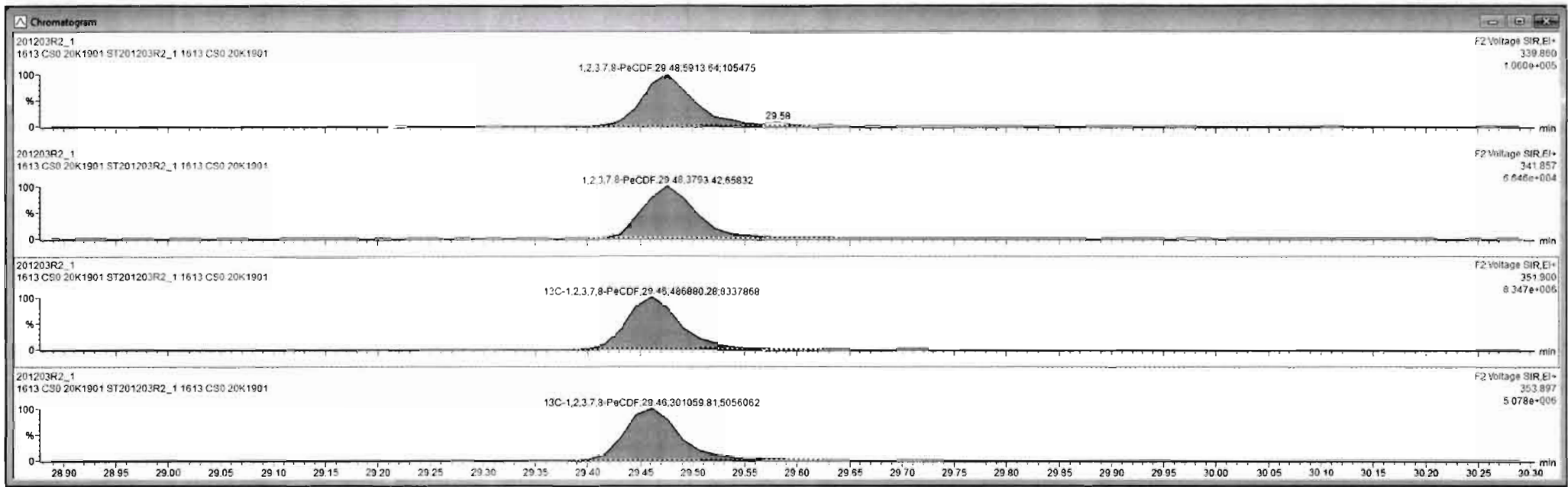
F2:Voltage SIR,EI+
409.7974
8.498e+002

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	0.0981	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	



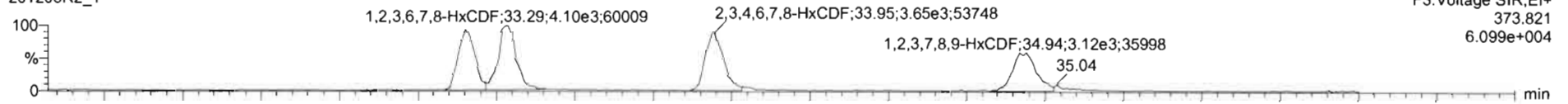
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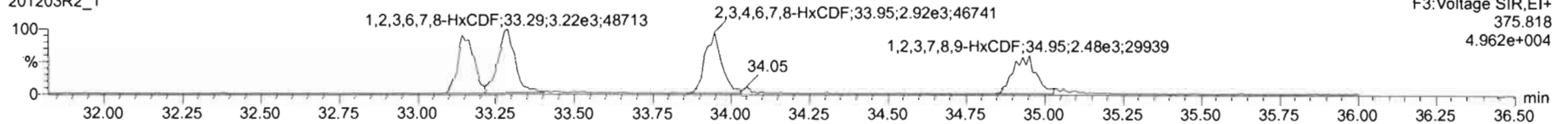
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1,2,3,4,7,8-HxCDF

201203R2_1

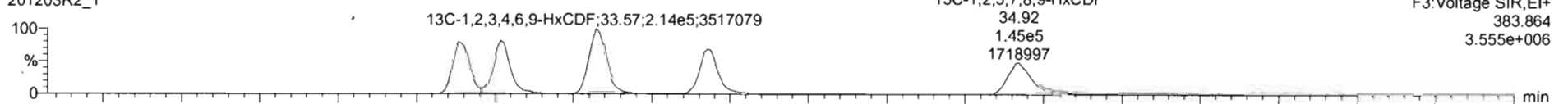


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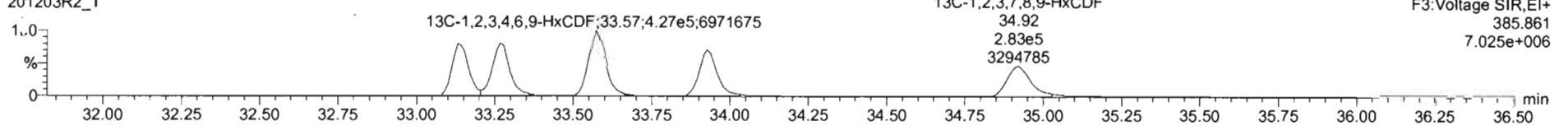


13C-1,2,3,4,7,8-HxCDF

201203R2_1

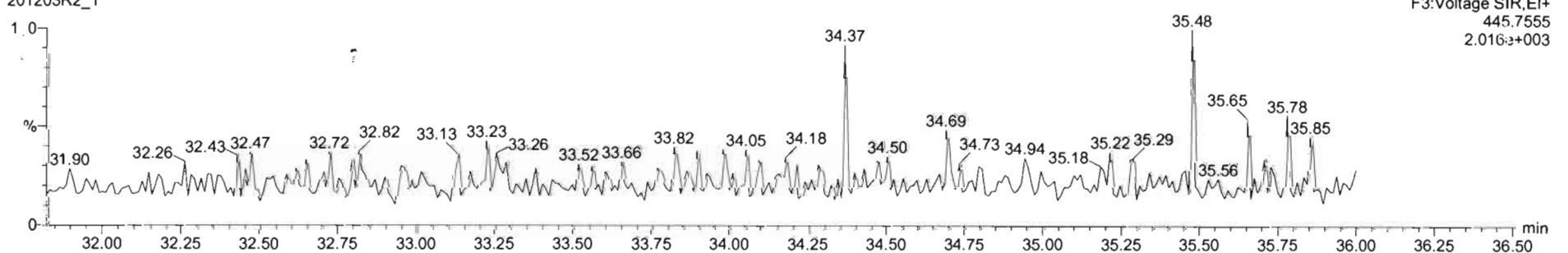


201203R2_1



DPE3

201203R2_1

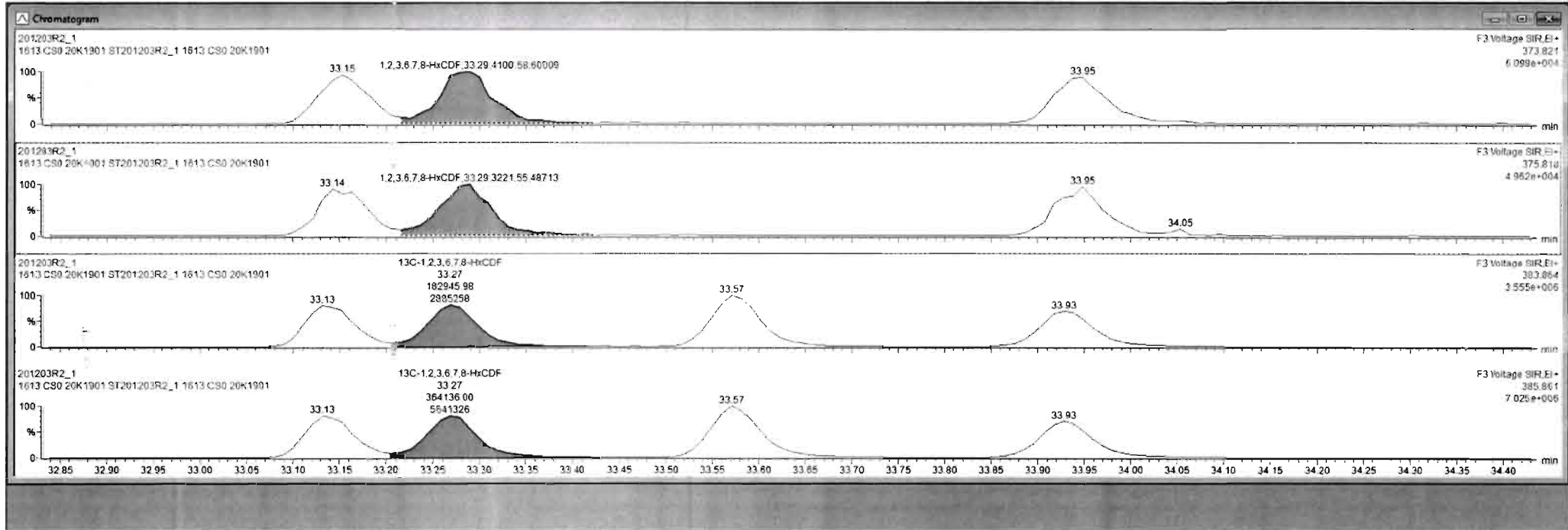


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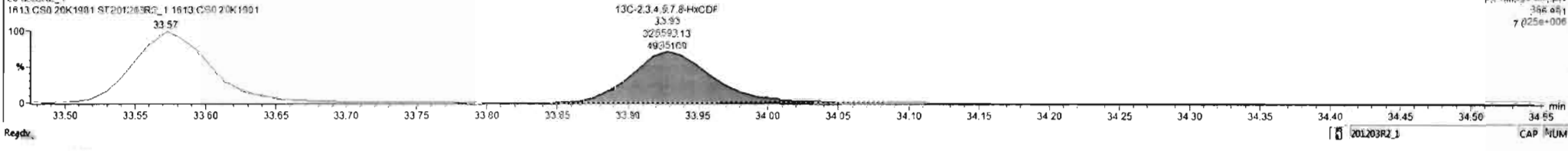
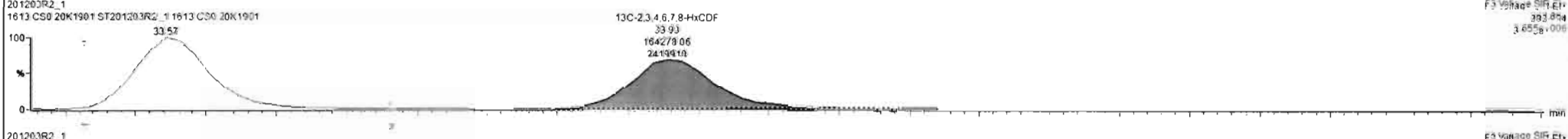
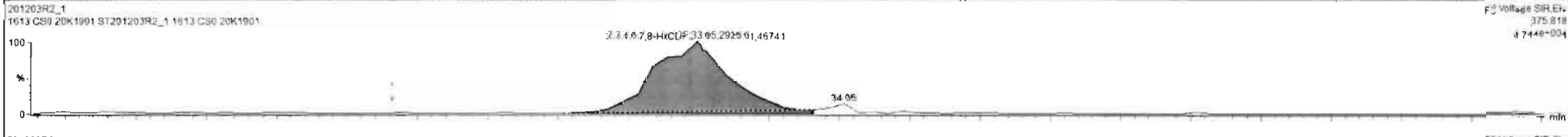
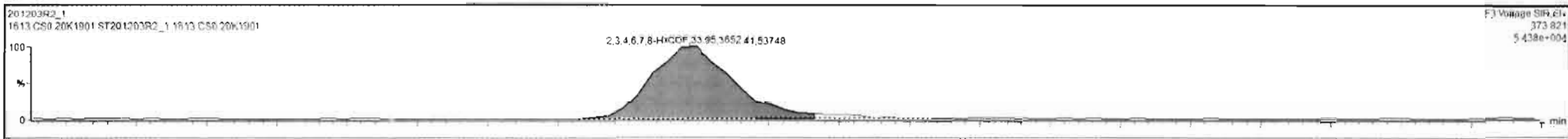
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201203R2_1 - ST201203R2_1 1613 CS0 20K1901 - 1613 CS0 20K1901

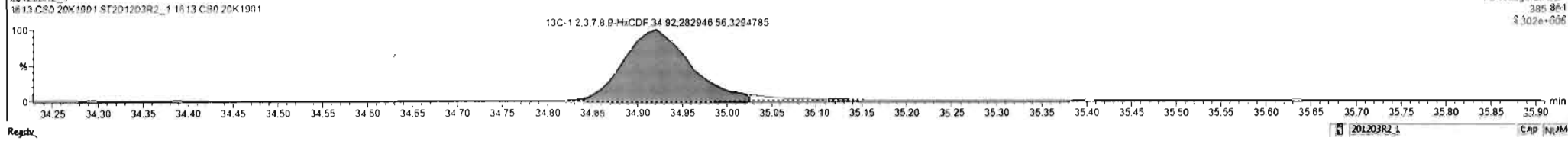
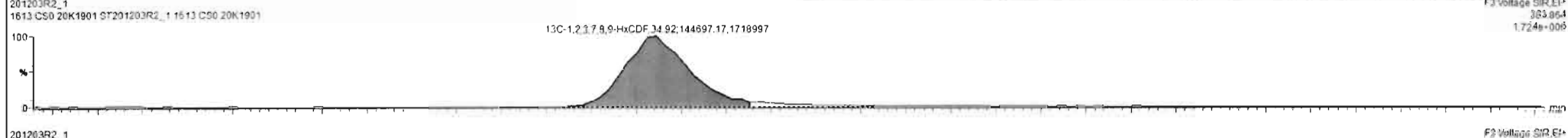
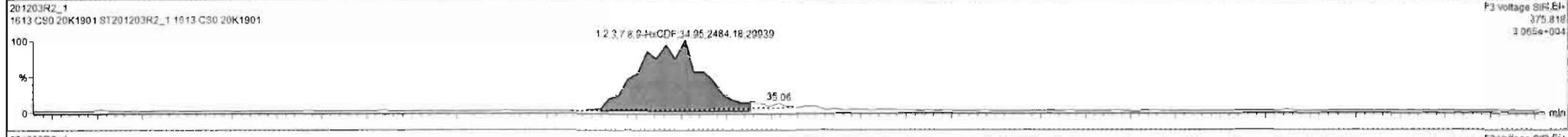
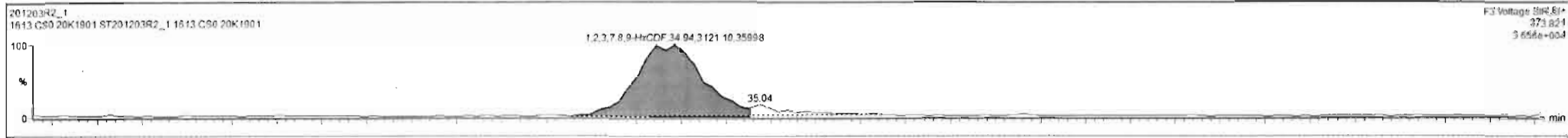
Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
9 1,2,3,7,8-PeCDF	9.71e3	1.56	NO	0.96	1.000	29.48	1.000	1.28	103	0.0234	1.28
10 2,3,4,7,8-PeCDF	1.08e4	1.52	NO	1.07	1.000	30.55	1.000	1.32	106	0.0280	1.33
11 1,2,3,4,7,8-HxCDF	6.18e3	1.29	NO	0.99	1.000	33.15	1.001	1.22	97.3	0.0845	1.22
12 1,2,3,6,7,8-HxCDF	7.32e3	1.27	NO	1.04	1.000	33.29	1.001	1.29	103	0.0558	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	NRec	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	84.4	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	n/y	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	

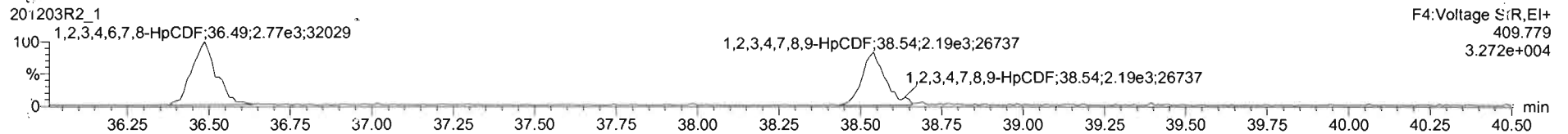
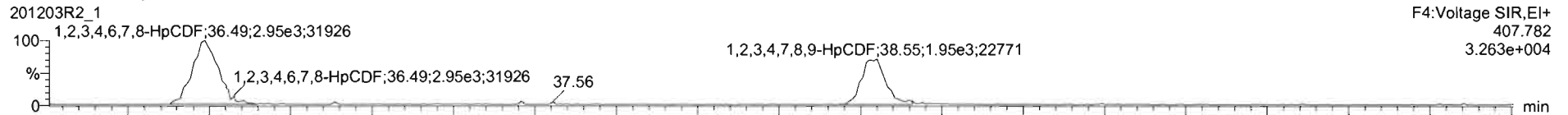


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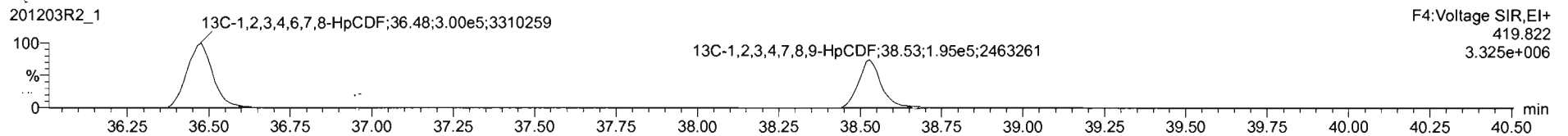
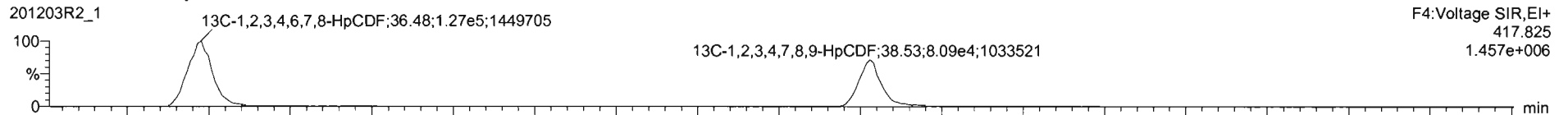
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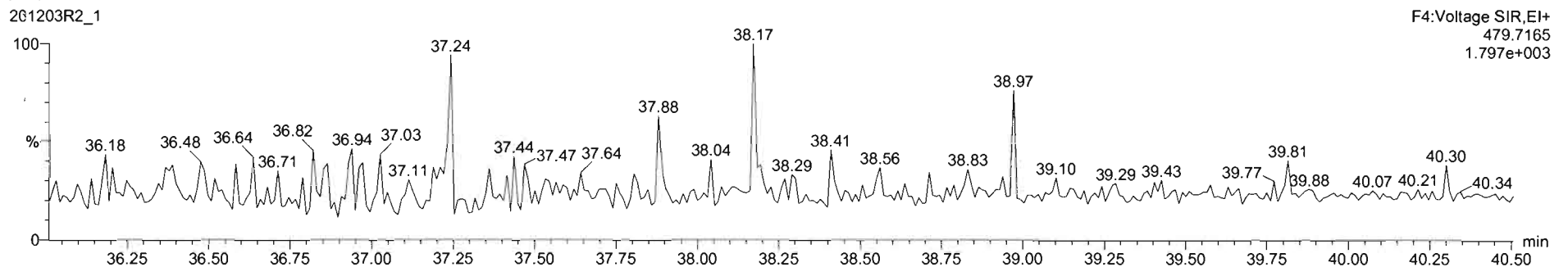
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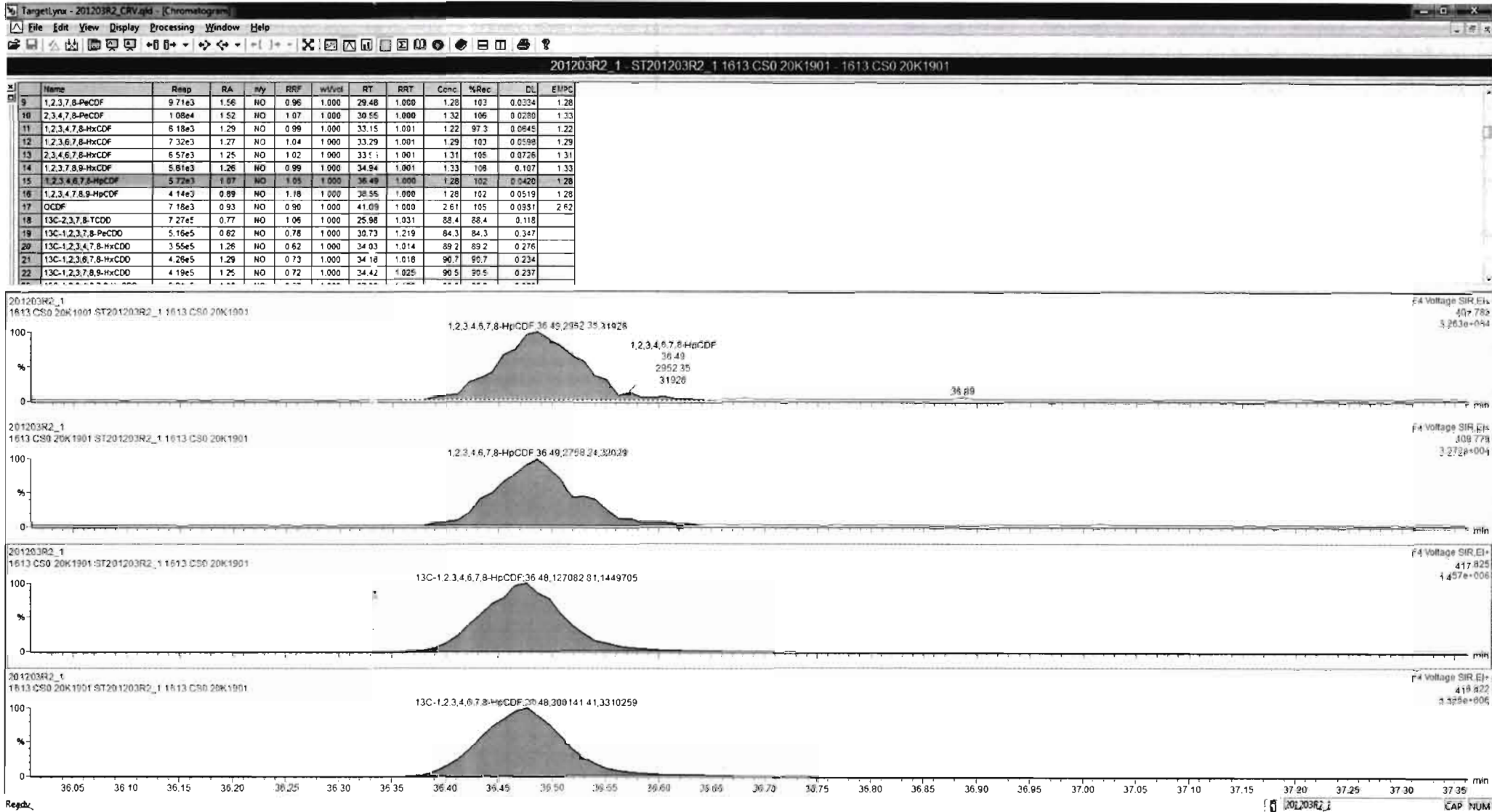


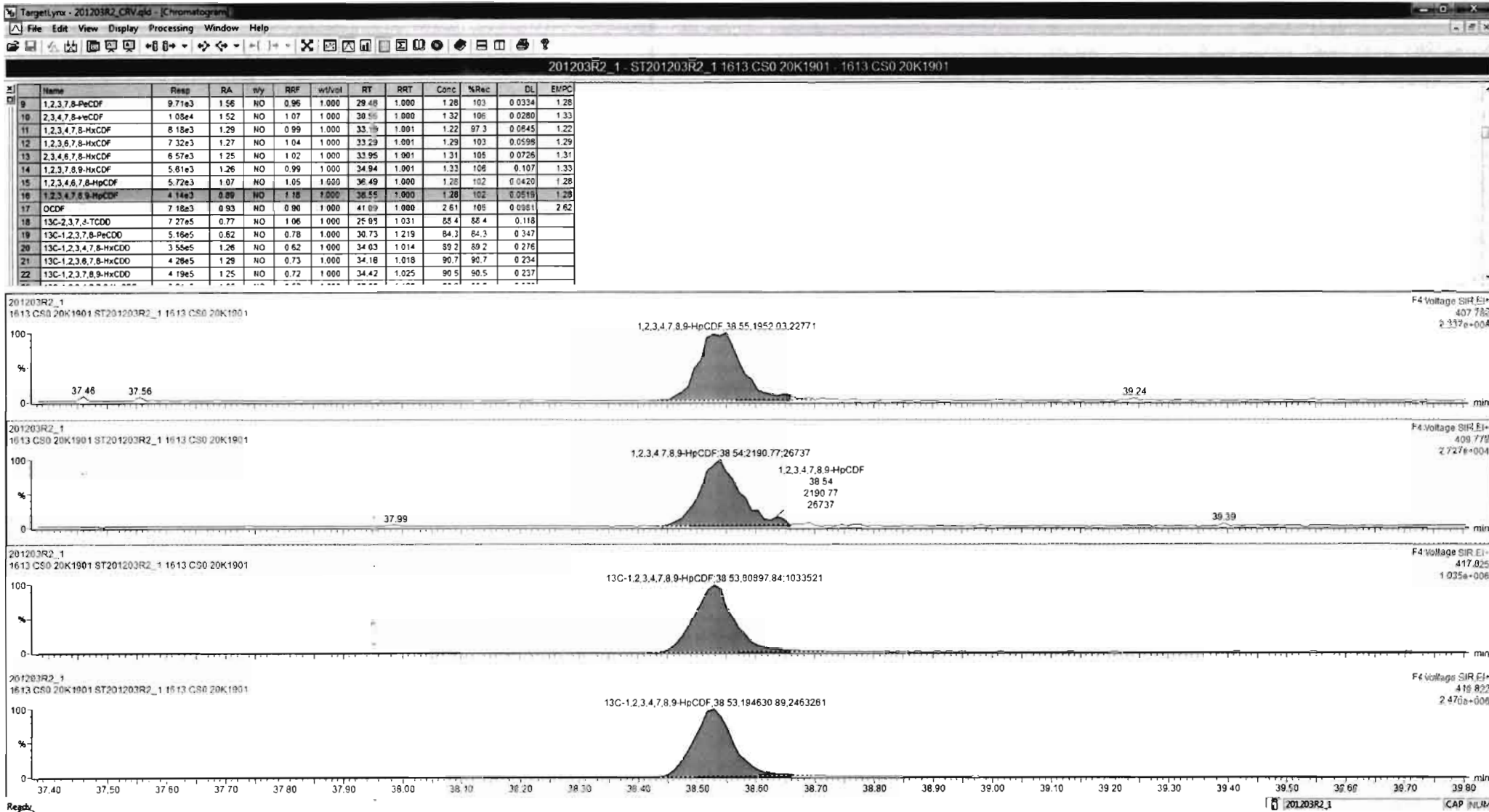
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DPE4



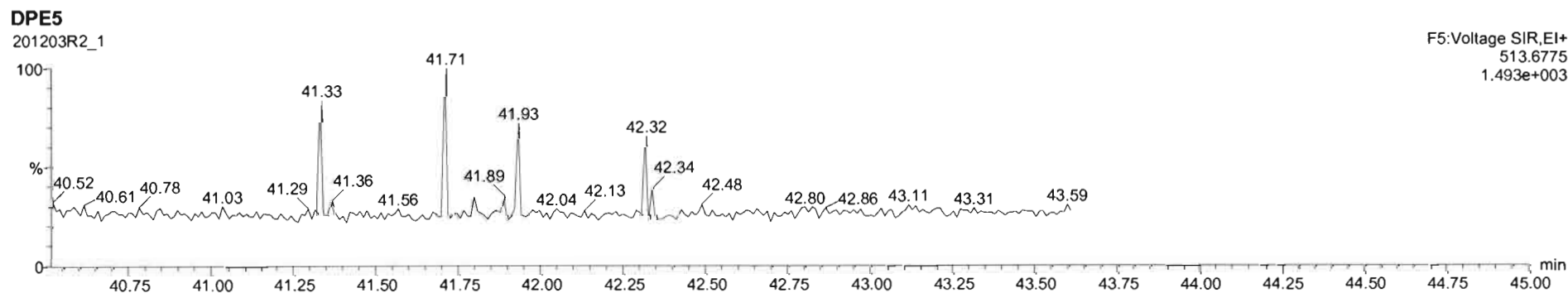
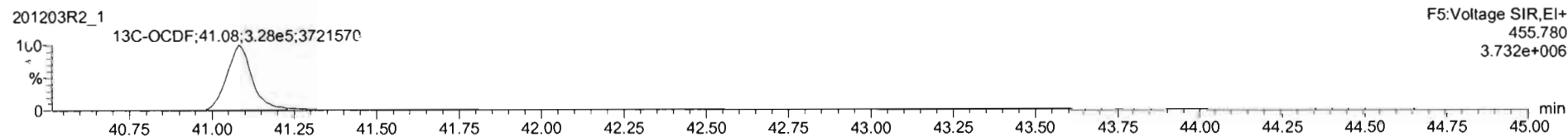
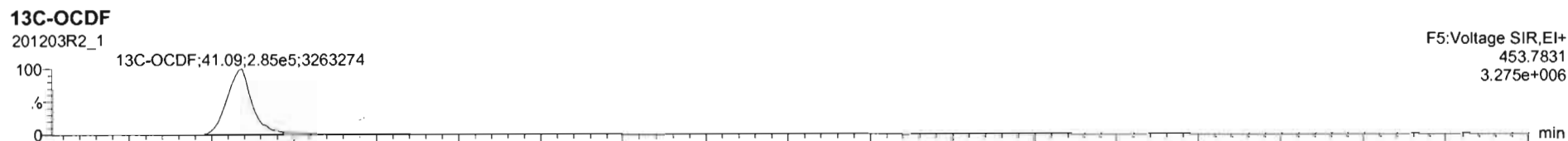
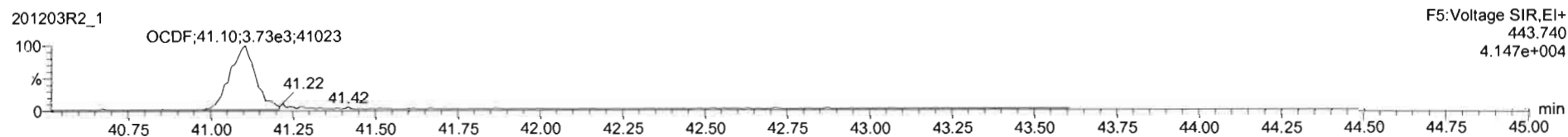
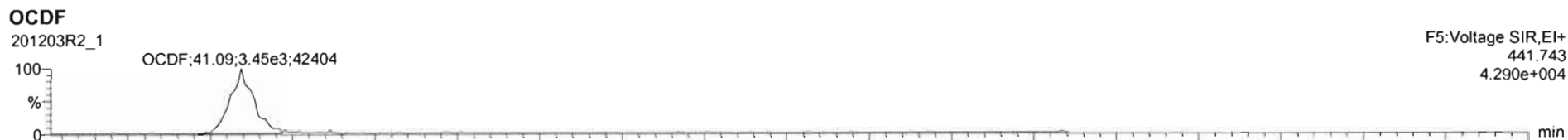




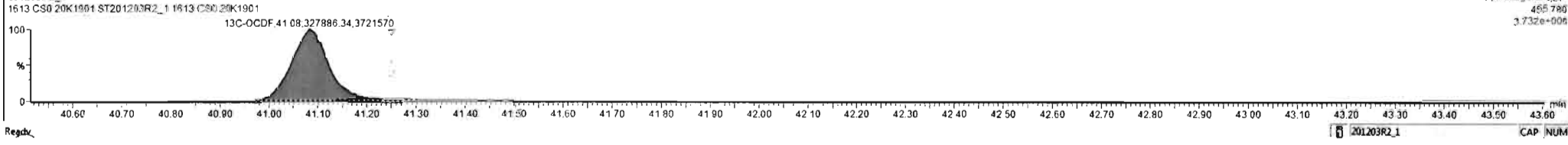
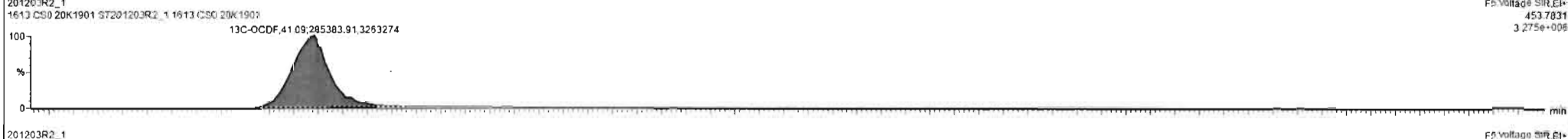
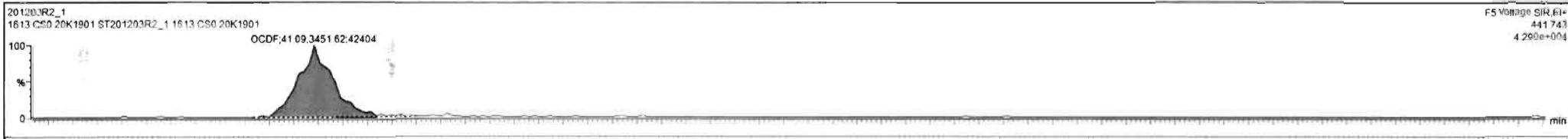
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#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
9	1,2,3,7,8-PeCDF	9.71e3	1.56	NO	0.96	1.000	29.48	1.000	1.28	103	0.0334	1.28
10	2,3,4,7,8-PeCDF	1.08e4	1.52	NO	1.07	1.000	30.55	1.001	1.32	106	0.0280	1.33
11	1,2,3,4,7,8-HxCDF	8.18e3	1.29	NO	0.99	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	



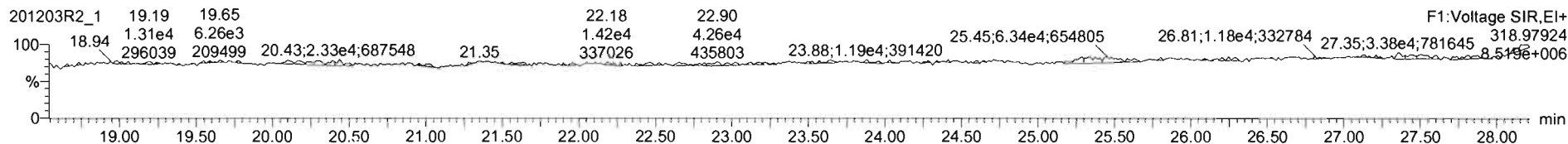
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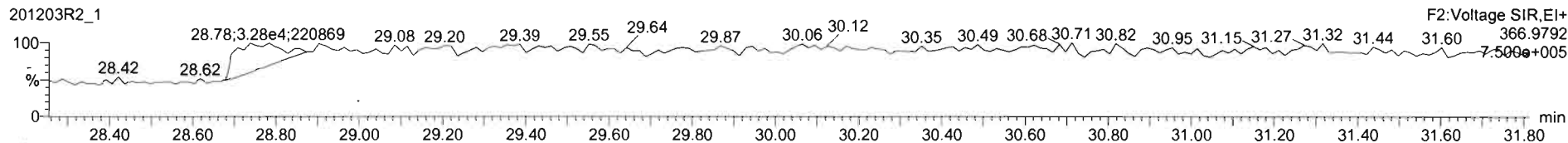
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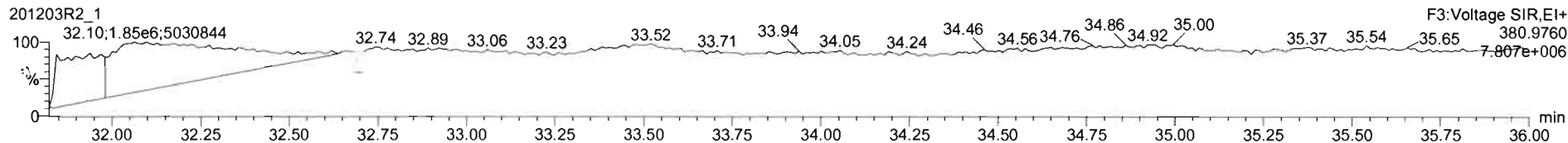
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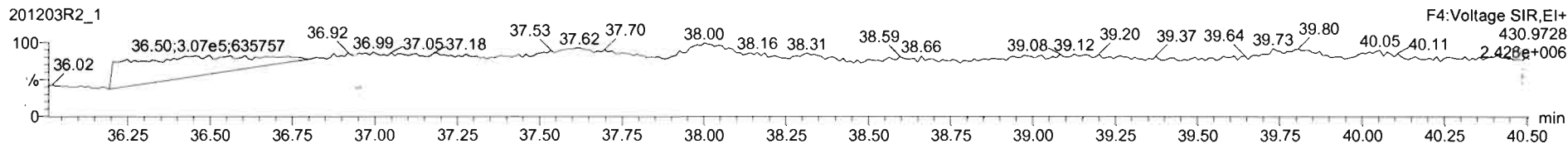
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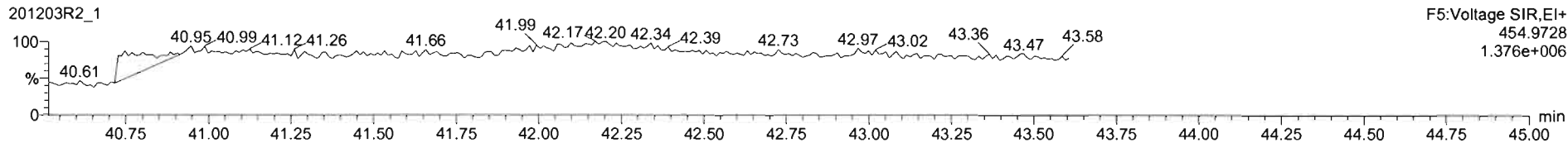
PFK3



PFK4



PFK5



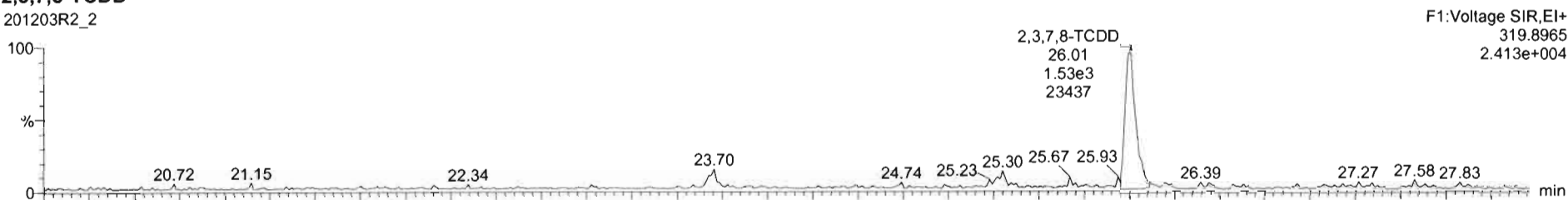
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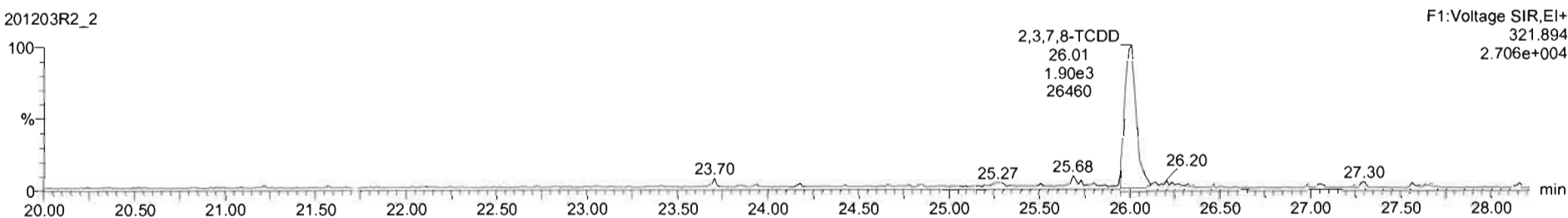
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2,3,7,8-TCDD

201203R2_2

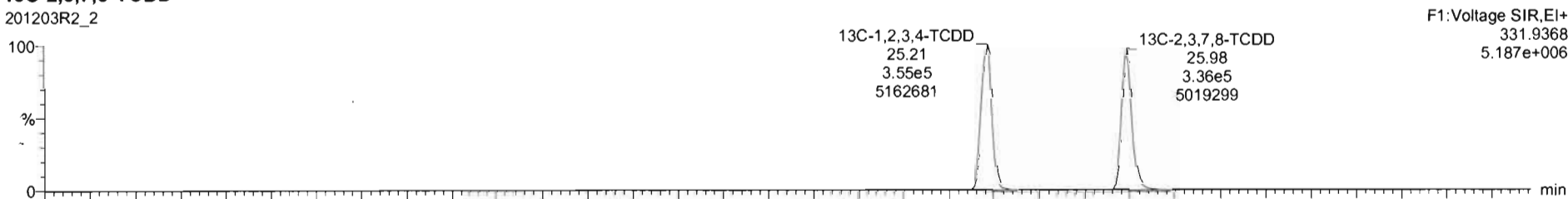


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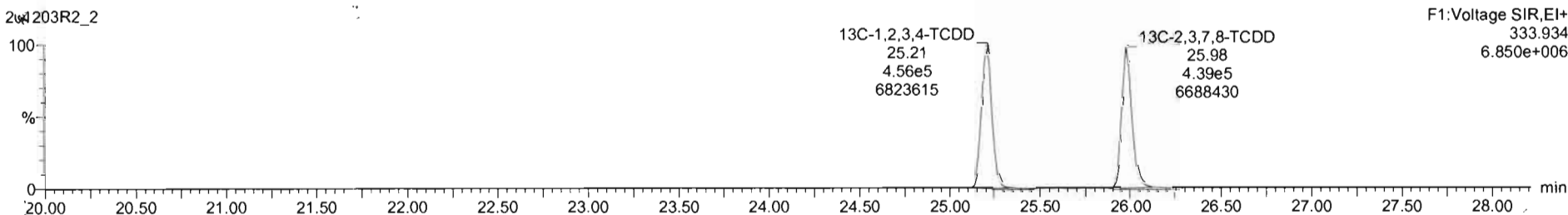


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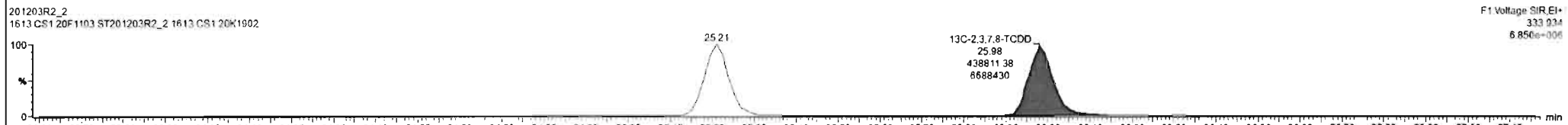
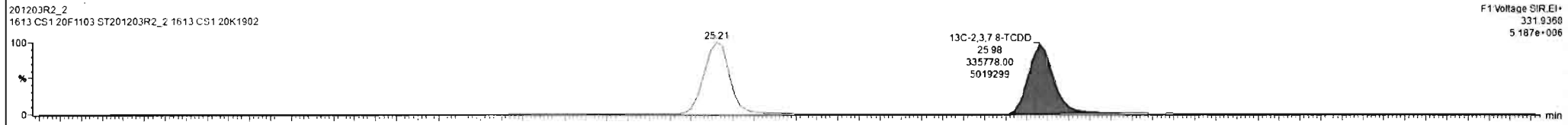
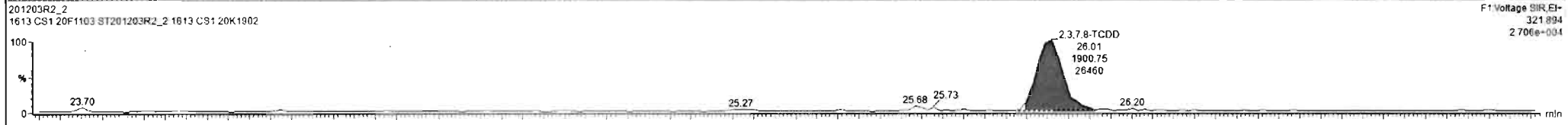
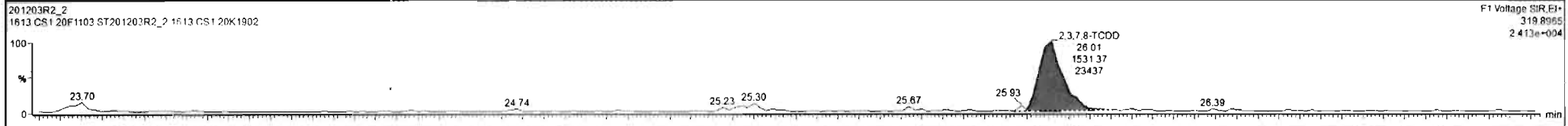


201203R2_2



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



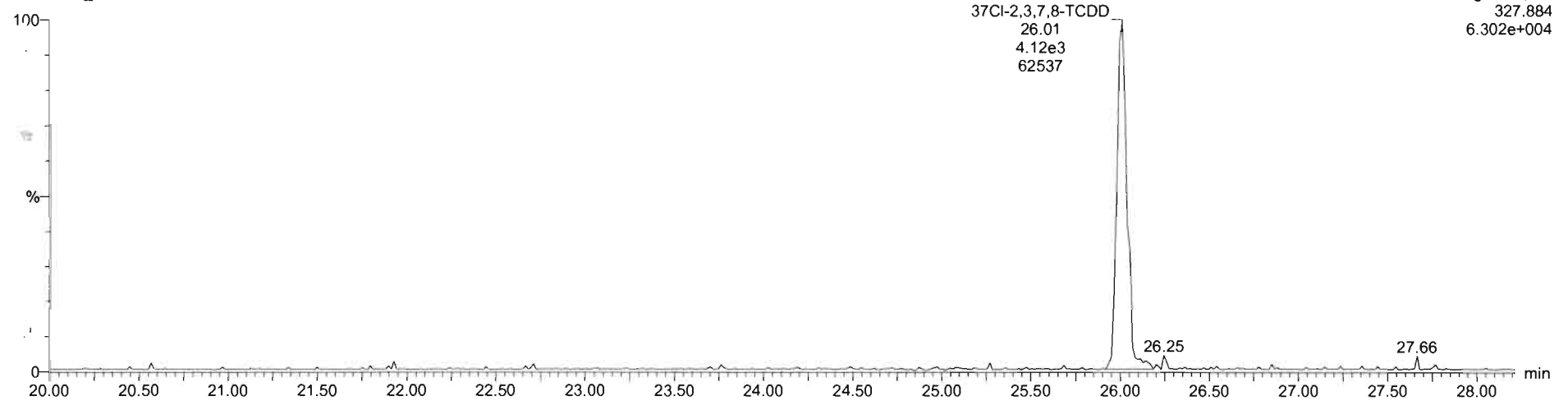
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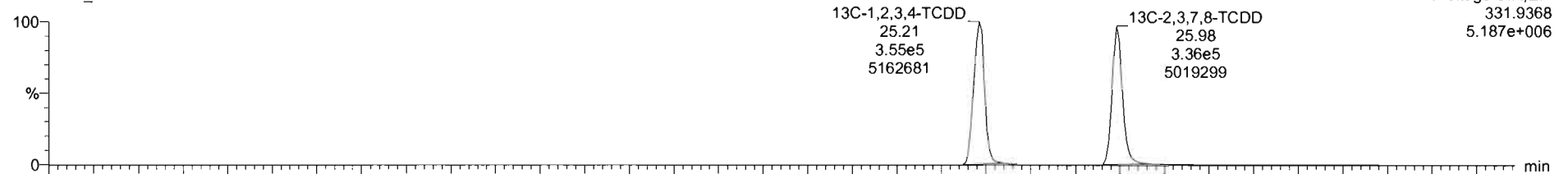
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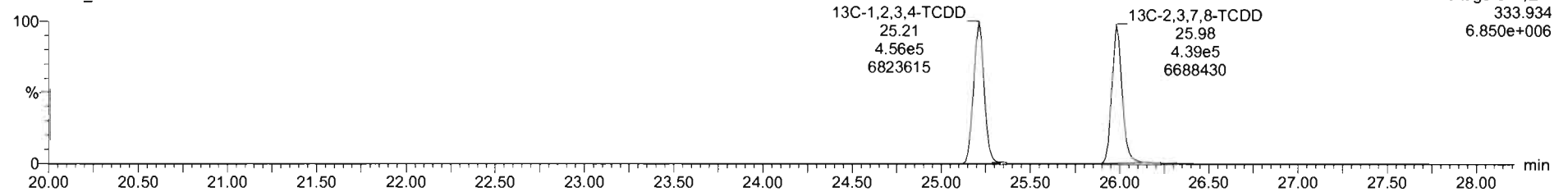


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201203R2_2



201203R2_2



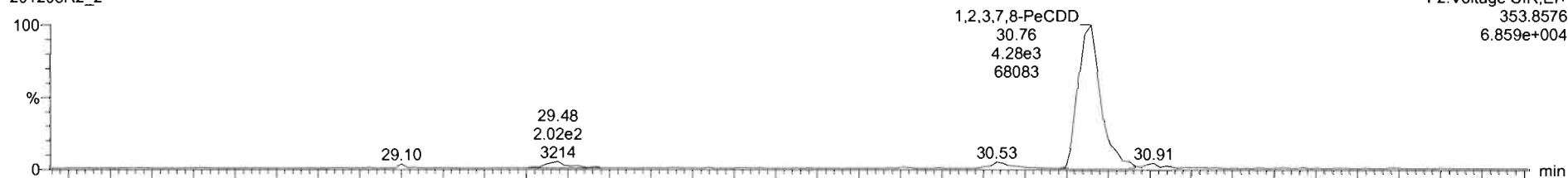
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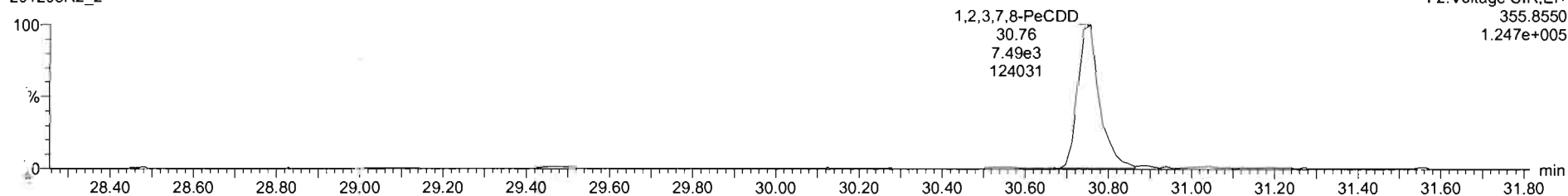
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1,2,3,7,8-PeCDD

201203R2_2

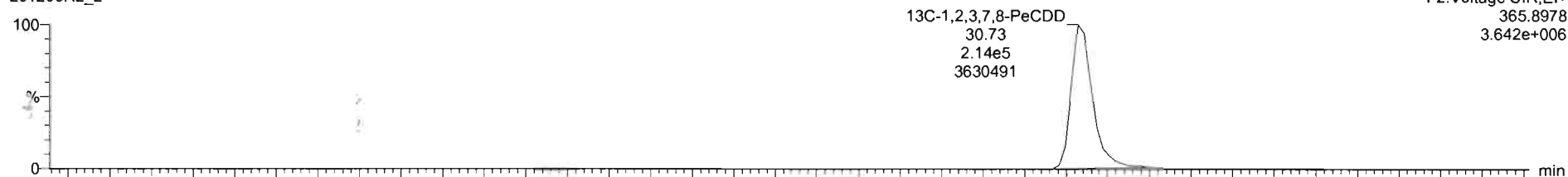


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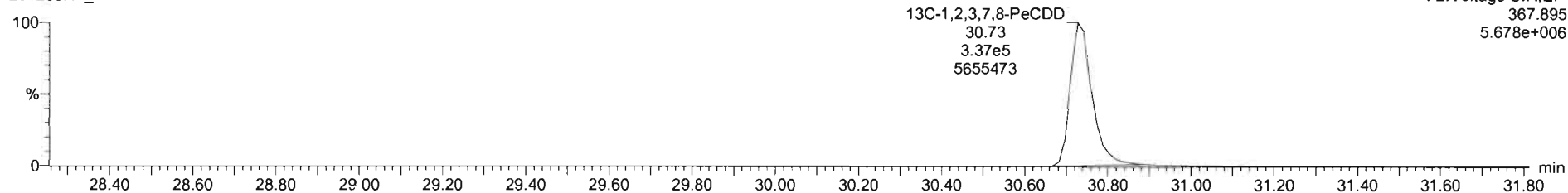


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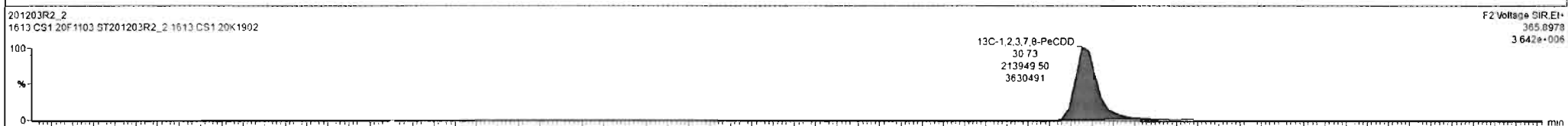
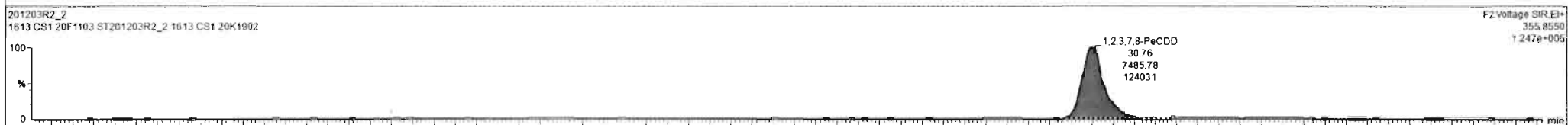
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201203R2_2 - ST201203R2_2 1613 CS1 20K1902 1613 CS1 20K1902

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	33.39	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



201203R2_2 CAP NUM

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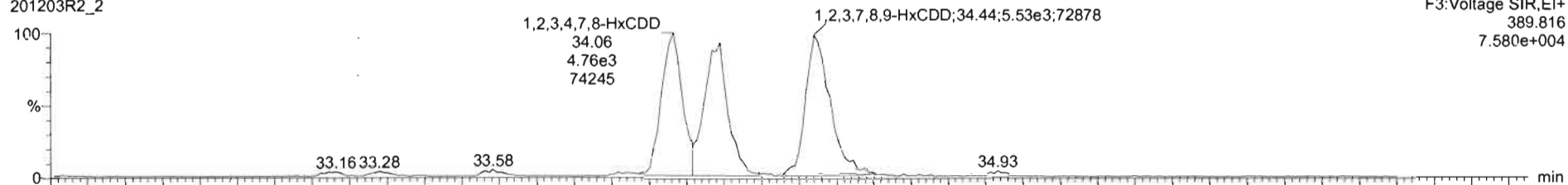
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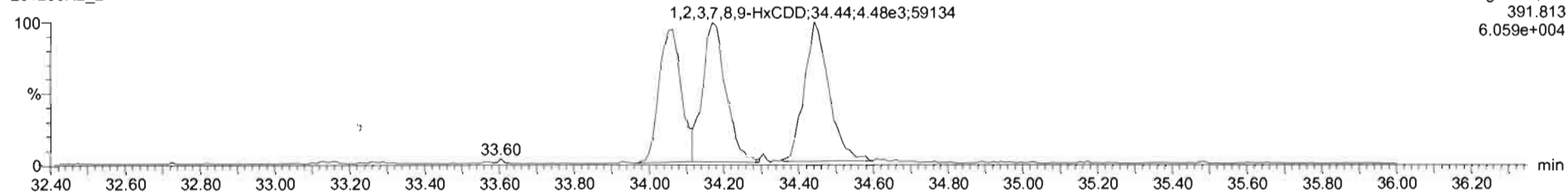
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1,2,3,4,7,8-HxCDD

201203R2_2

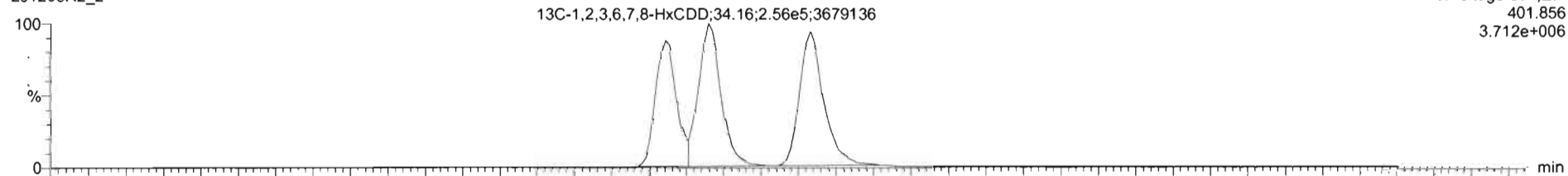


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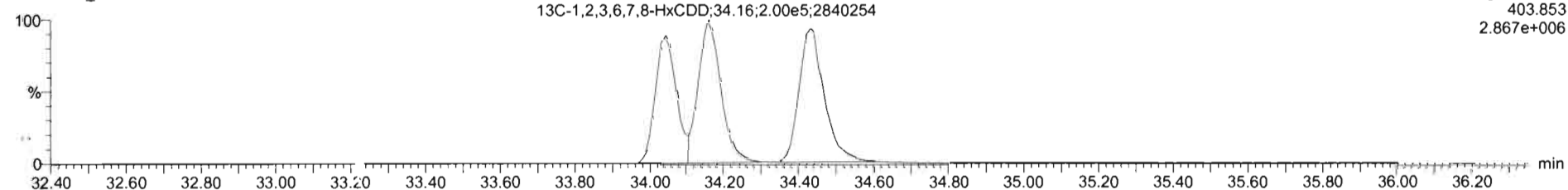


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201203R2_2

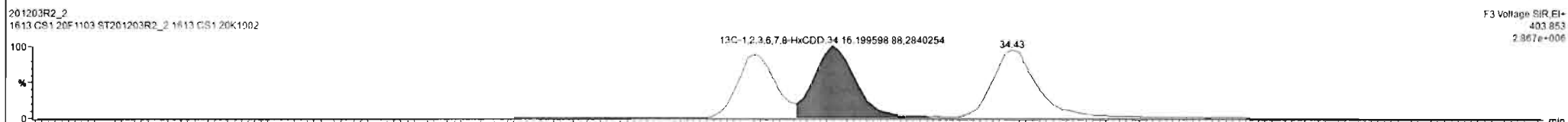
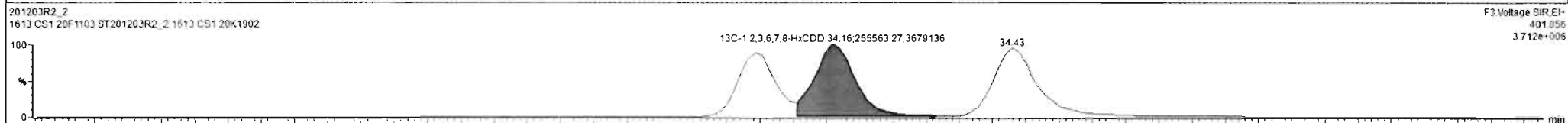
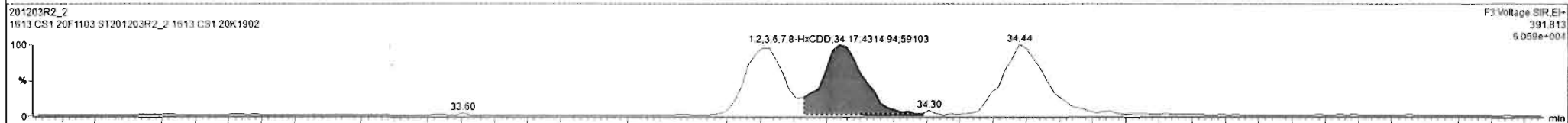
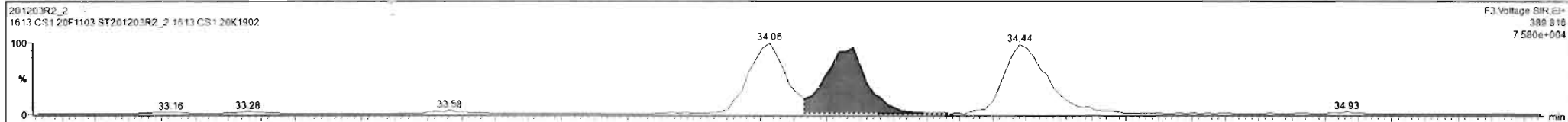


201203R2_2



201203R2_2 - ST201203R2_2 1613 CS1 20K1902 1613 CS1 20K1902

Name	Resp	RA	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	0.0298	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	0.0428	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	98.8	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	1.64e4	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

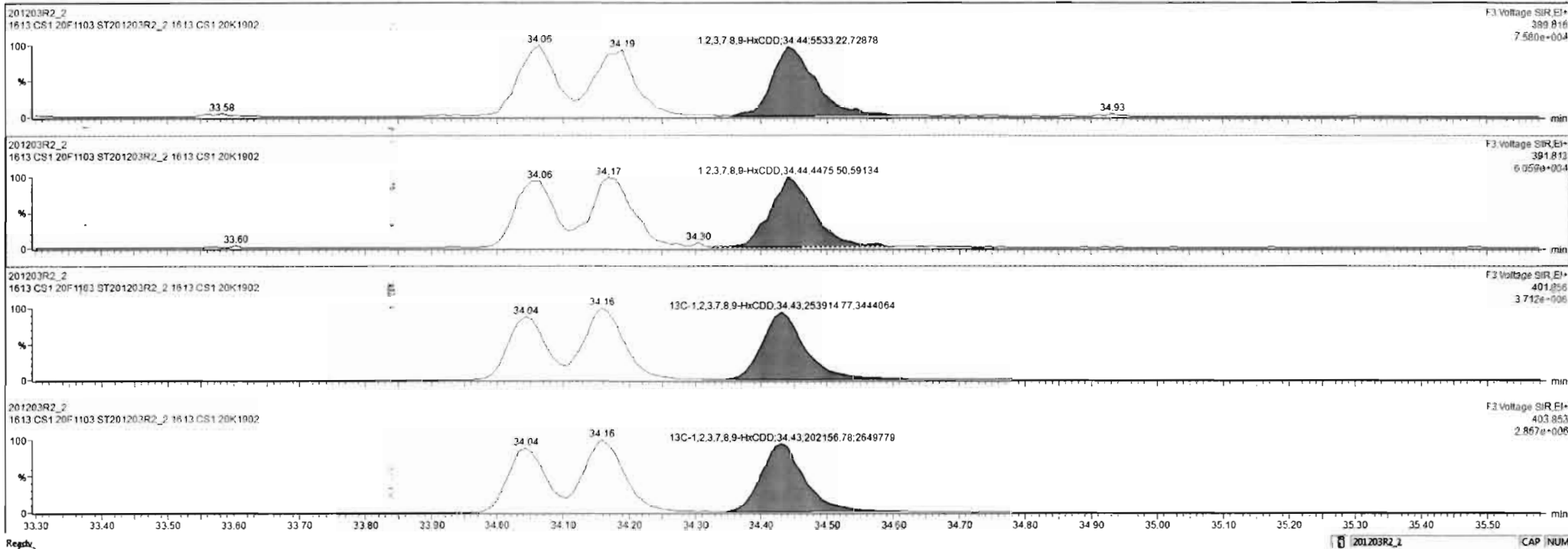


TargetLynx - 201203R2_CRV.qld - [Chromatogram]

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201203R2_2 - ST201203R2_2 1613 CS1 20K1902 - 1613 CS1 20K1902

#	Name	Resp	RA	rvy	RRF	wt/wtd	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



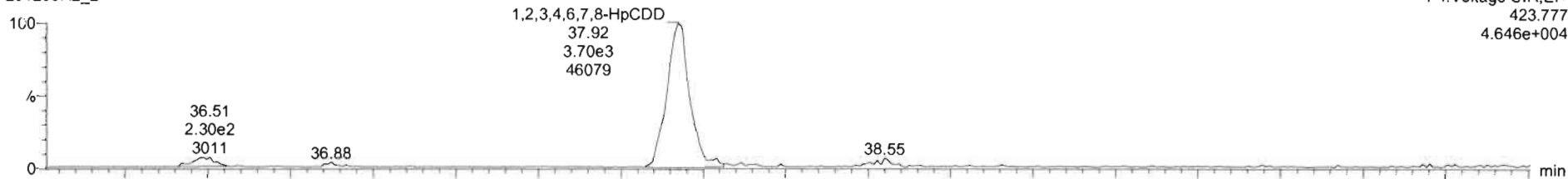
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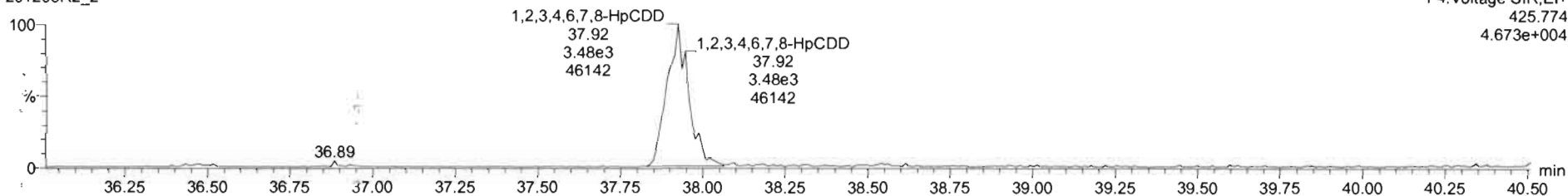
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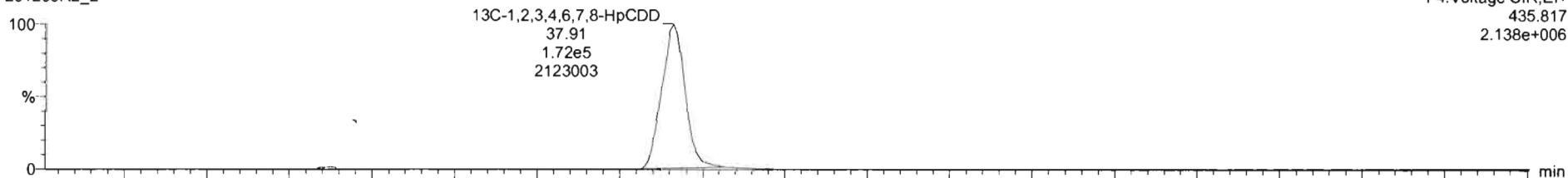


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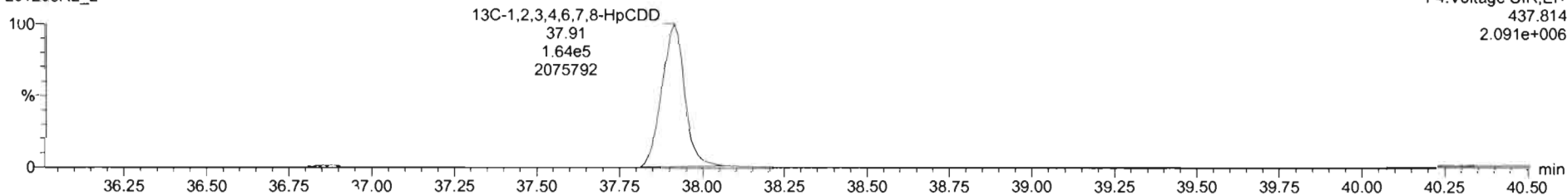


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201203R2_2

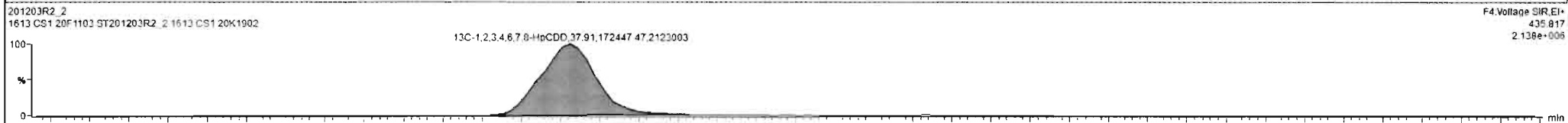
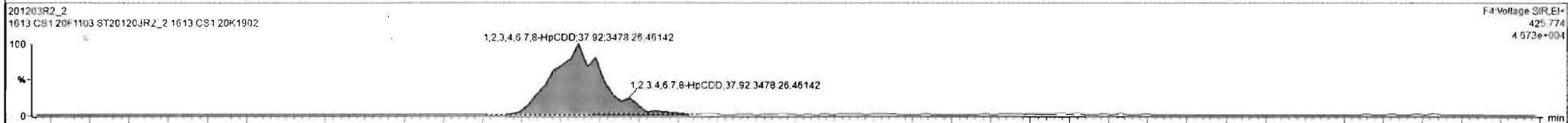


201203R2_2



201203R2_2 - ST201203R2_2 1613 CS1 20K1902 - 1613 CS1 20K1902

#	Name	Resp	RA	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	40.83	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



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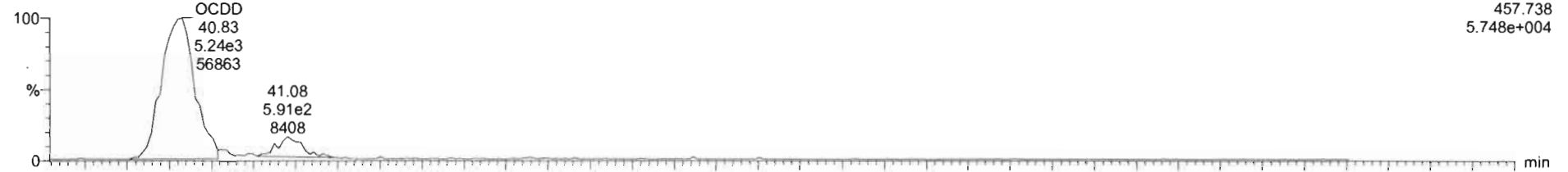
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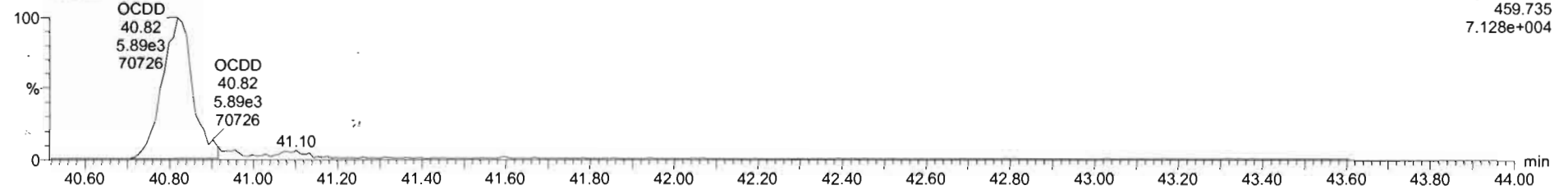
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OCDD

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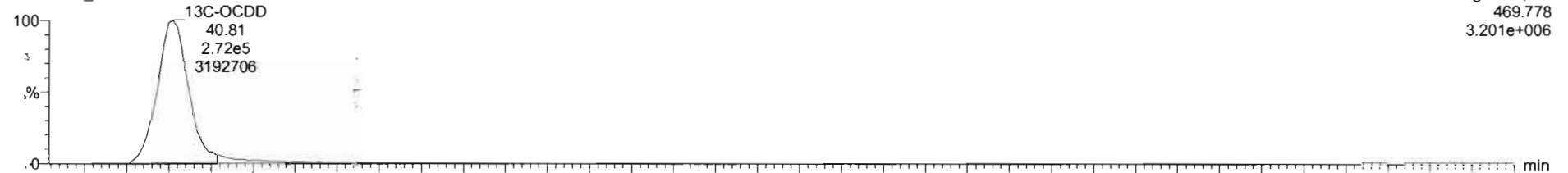


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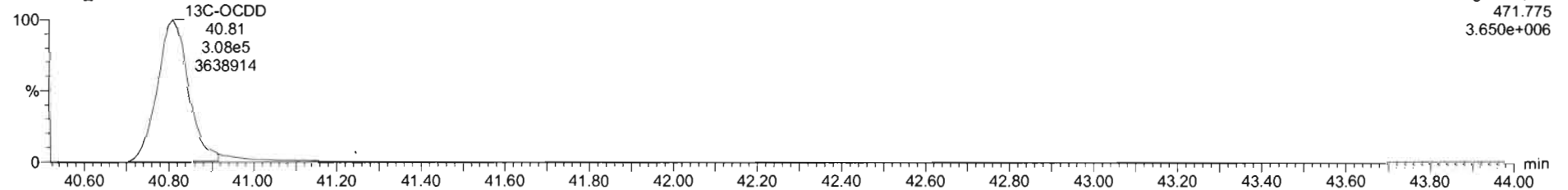


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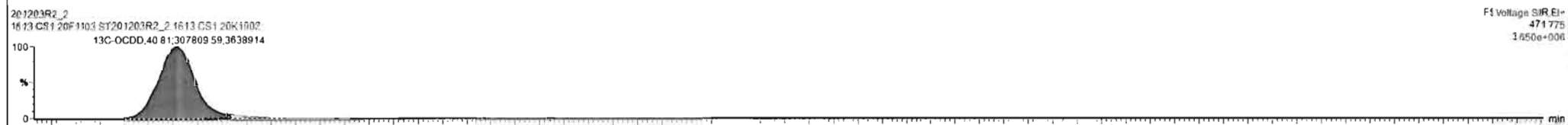
201203R2_2



201203R2_2



#	Name	Resp	RA	n/y	RRF	wtwei	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	34.06	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	0.0612	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



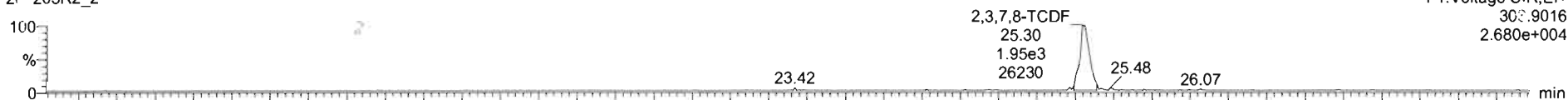
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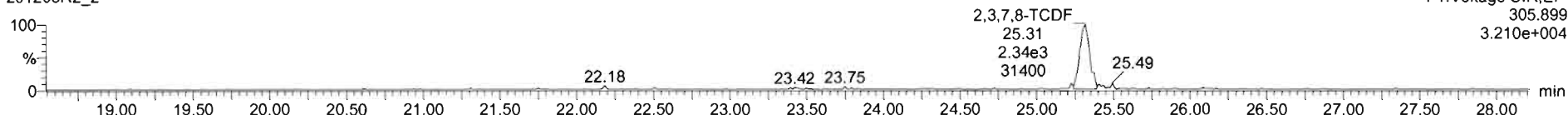
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2,3,7,8-TCDF

201203R2_2

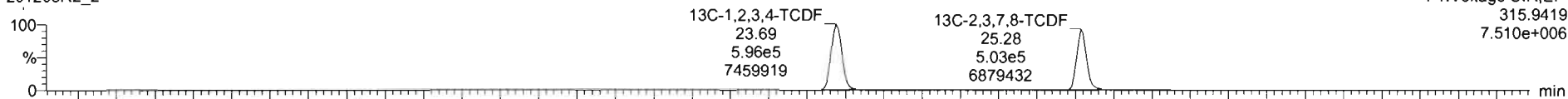


201203R2_2

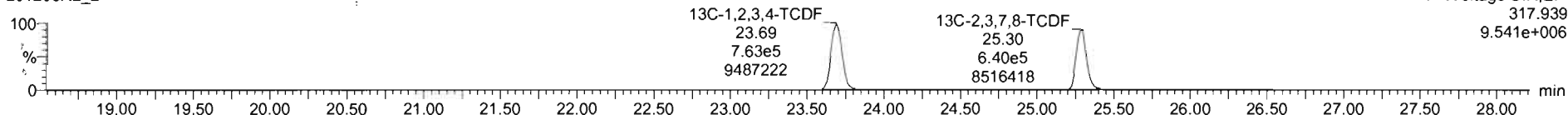


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201203R2_2

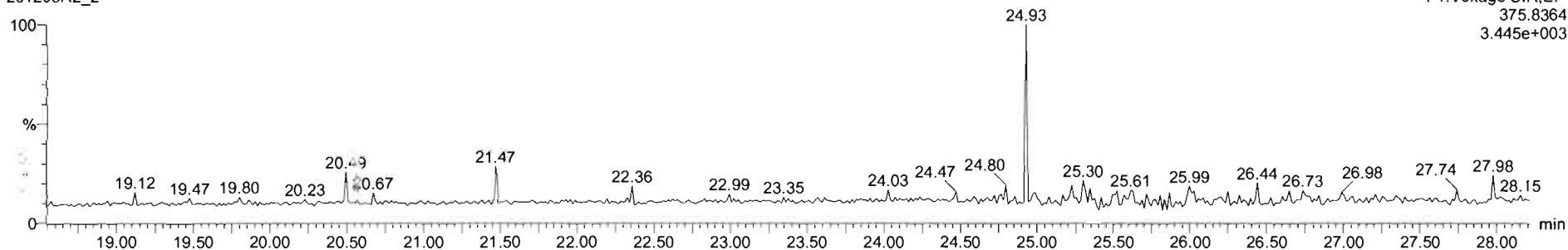


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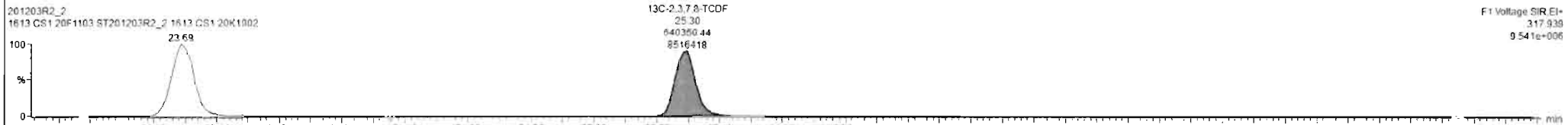
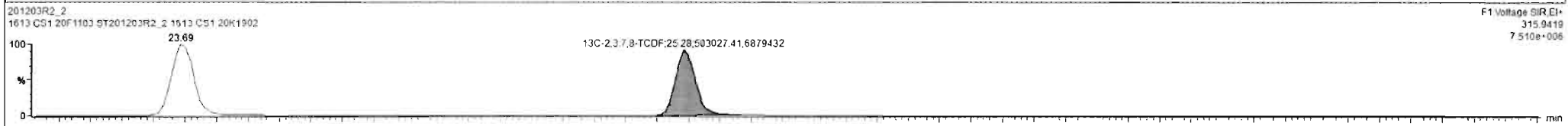
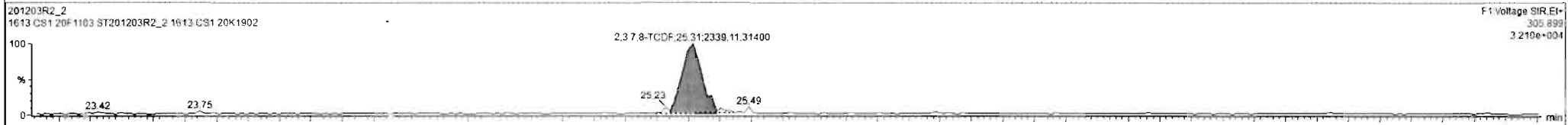
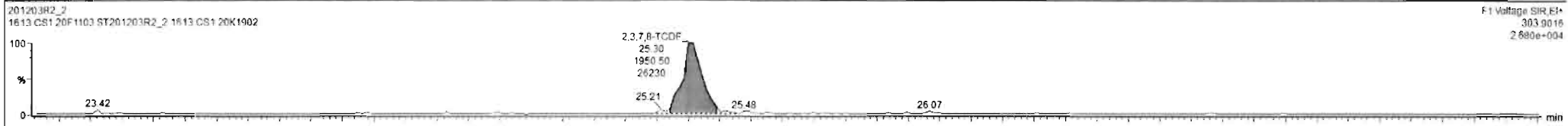


D1E1

201203R2_2



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

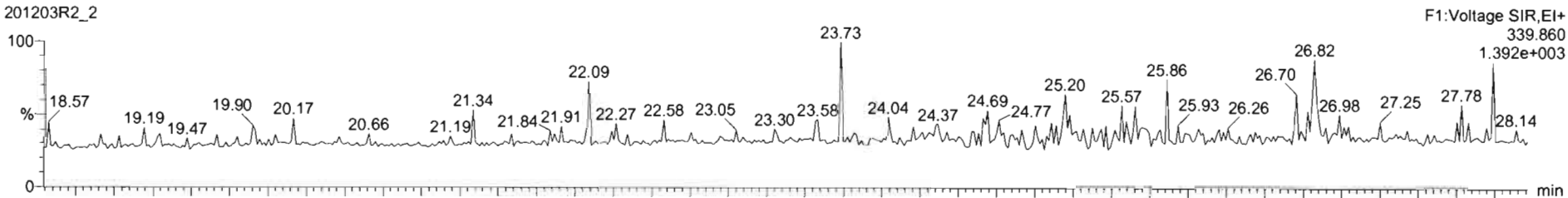
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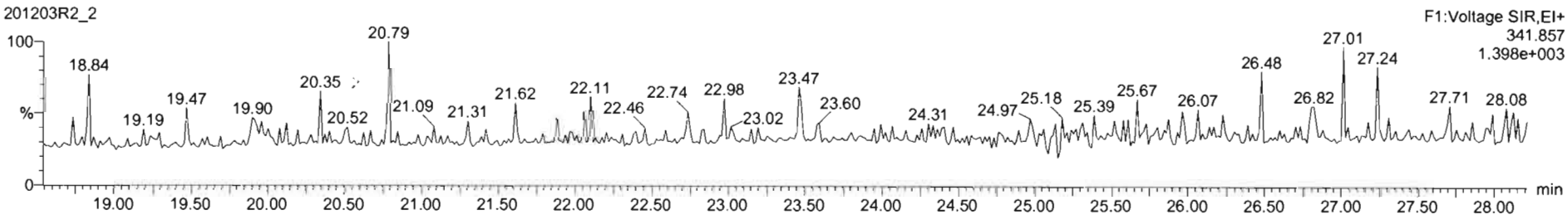
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1st Func. Penta-Furans

201203R2_2

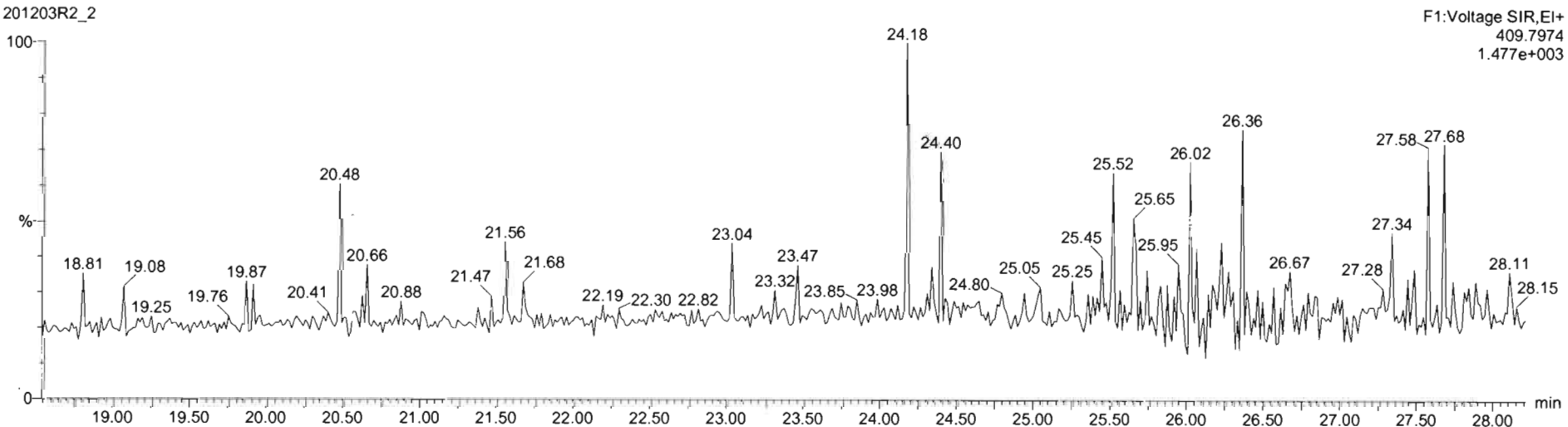


201203R2_2



DPE6

201203R2_2



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

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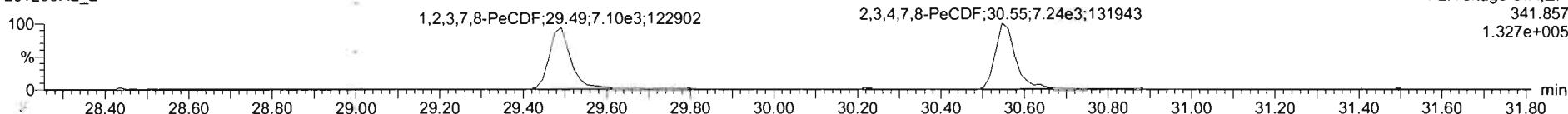
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1,2,3,7,8-PeCDF

201203R2_2

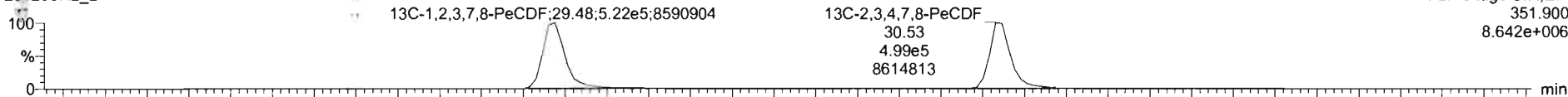


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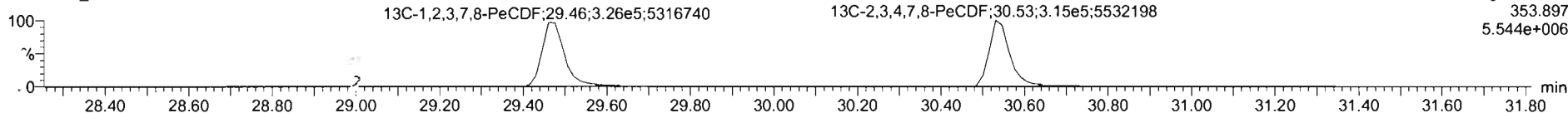


13C-1,2,3,7,8-PeCDF

201203R2_2

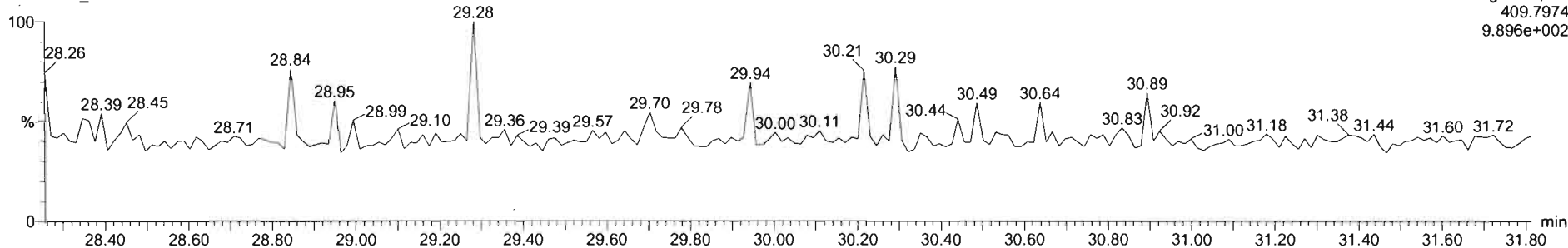


201203R2_2



DPE2

201203R2_2

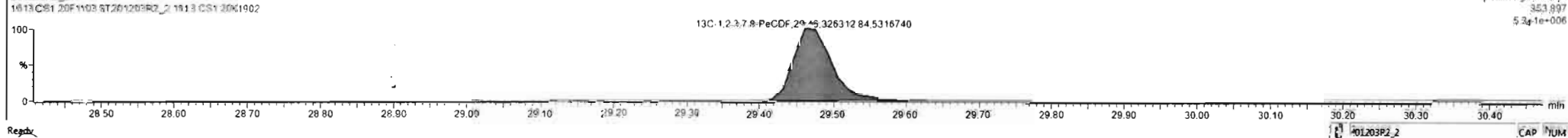
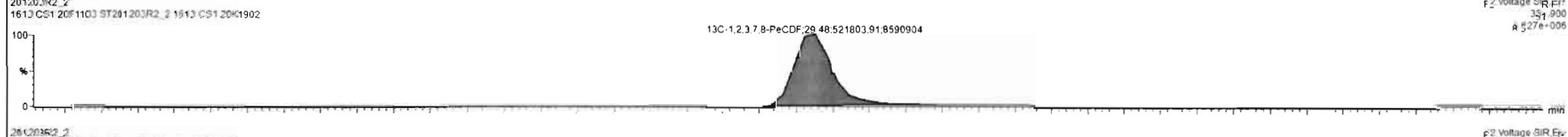
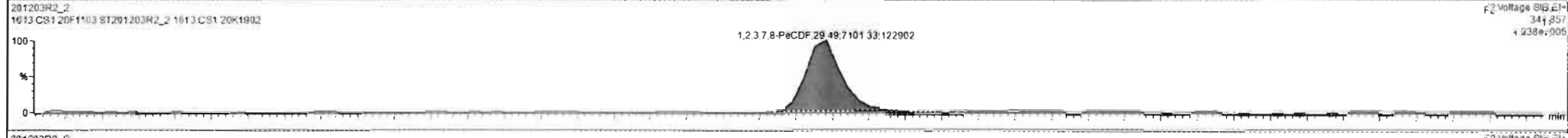
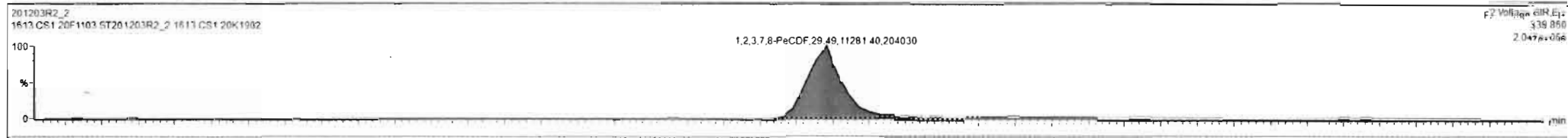


Targetlynx - 201203R2_CRV.gld - [Chromatogram]

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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-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	0.0565	2.19

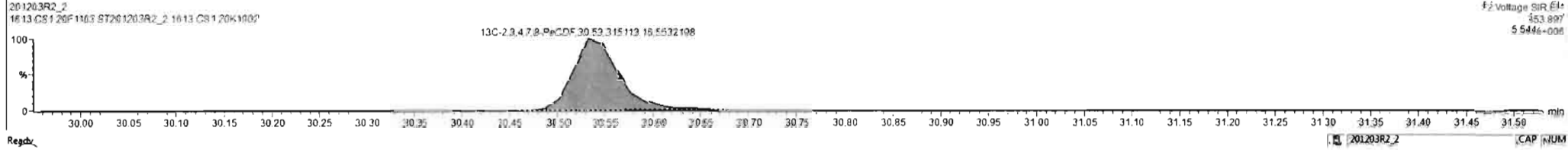
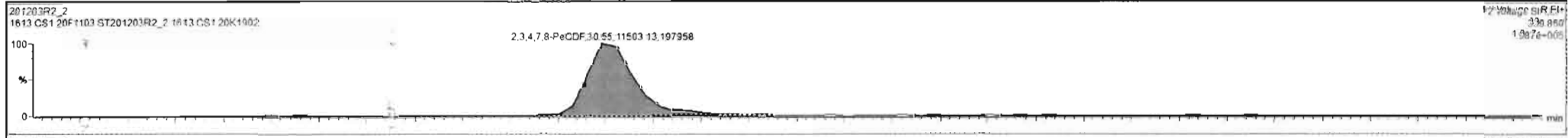


TargetLynx - 201203R2_CRV.qld - [Chromatogram]

File Edit View Display Processing Window Help

201203R2_2 - ST201203R2_2 1613 CS1 20K1902 - 1613 CS1 20K1902

Name	Resp	RA	nty	RRF	wt/wt	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	34.77	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

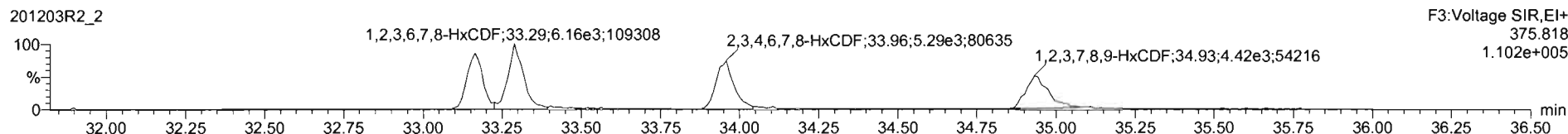
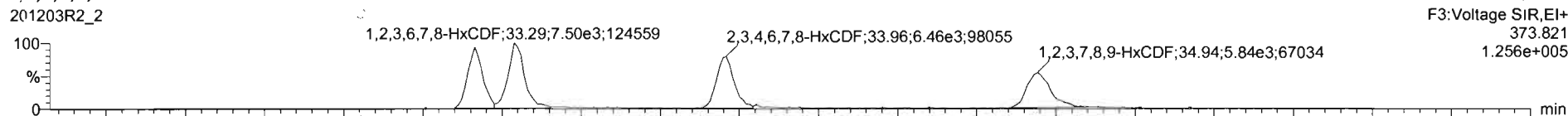


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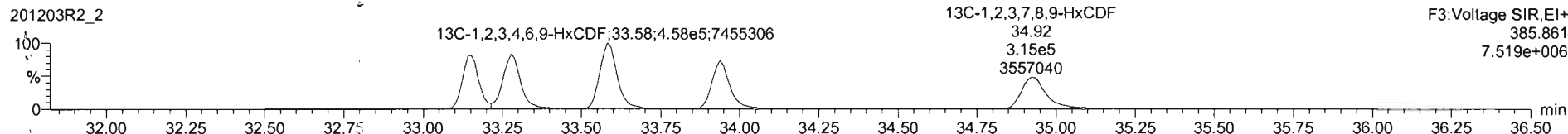
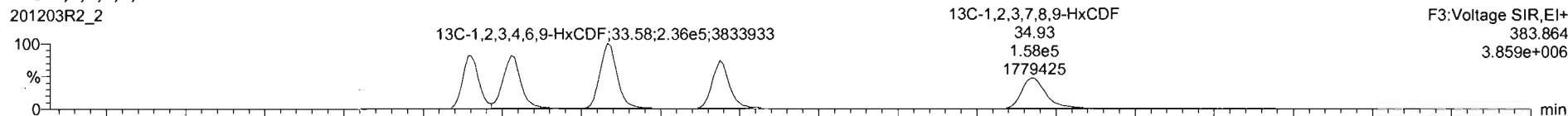
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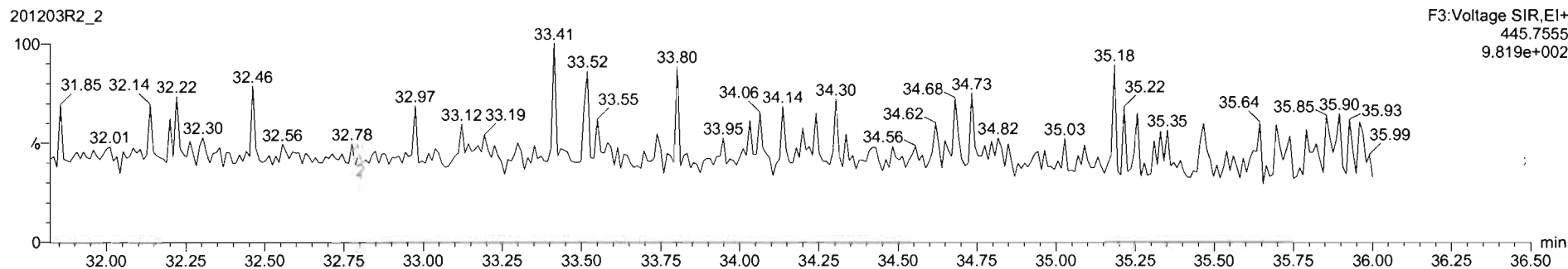
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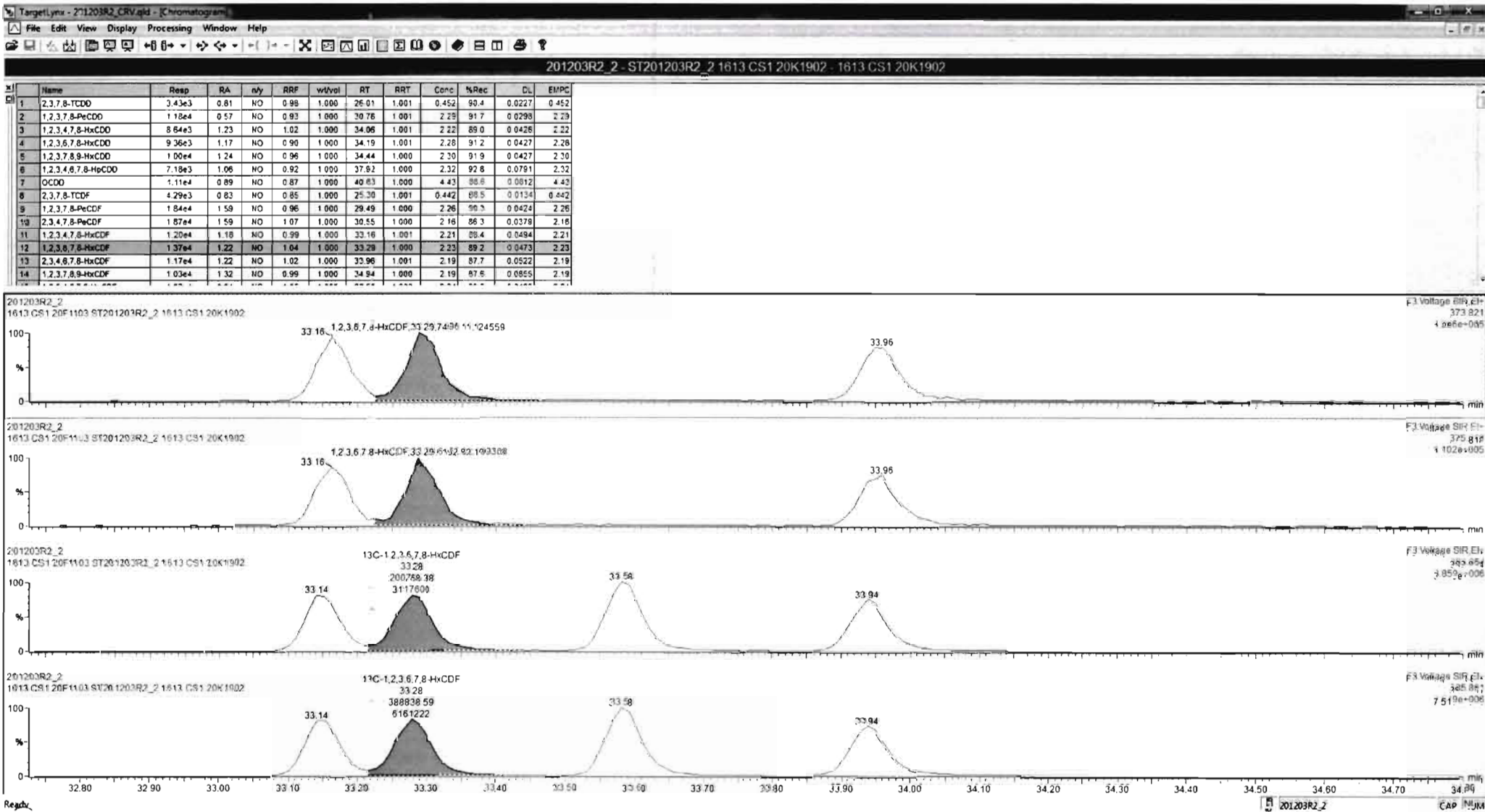


13C-1,2,3,4,7,8-HxCDF



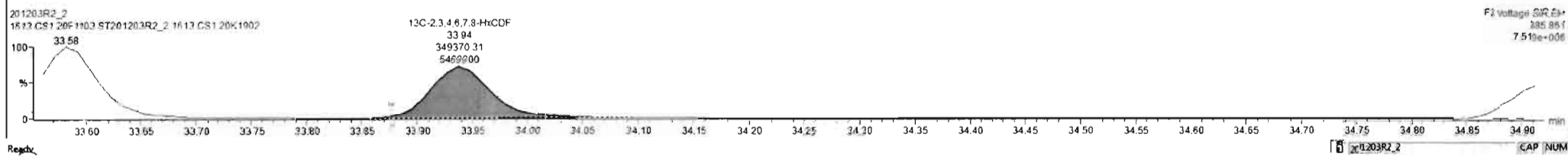
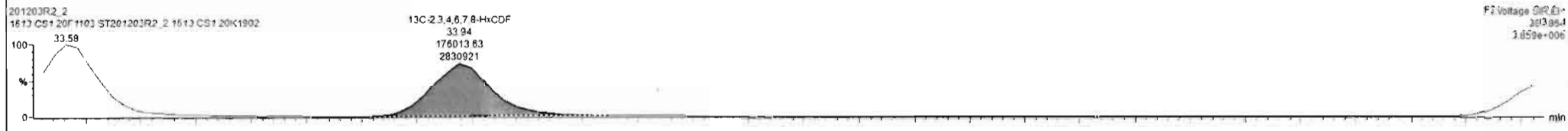
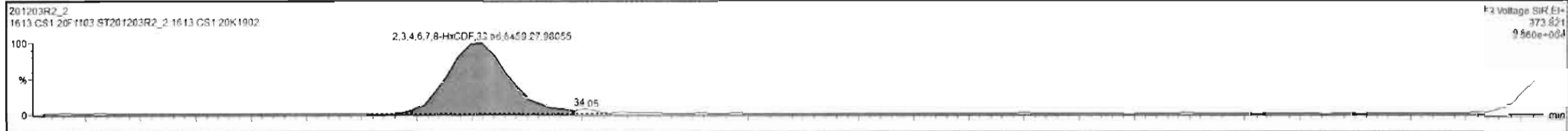
DPE3





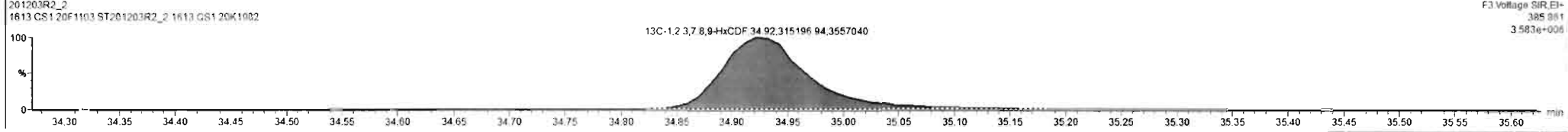
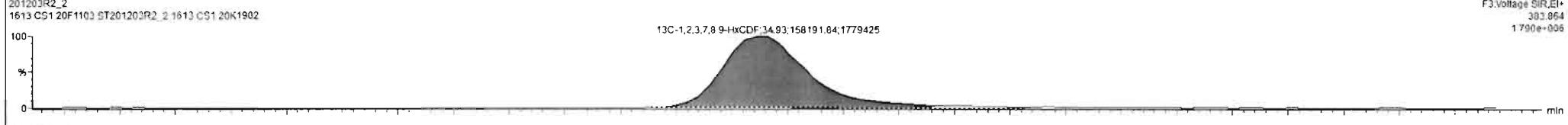
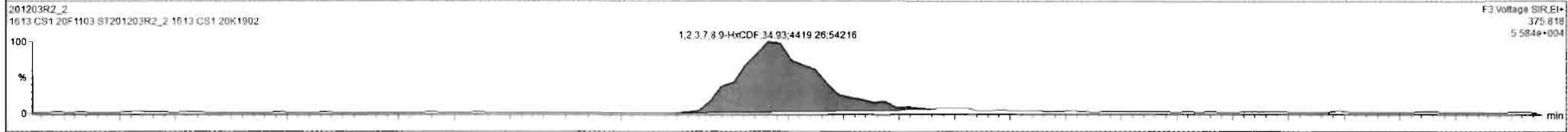
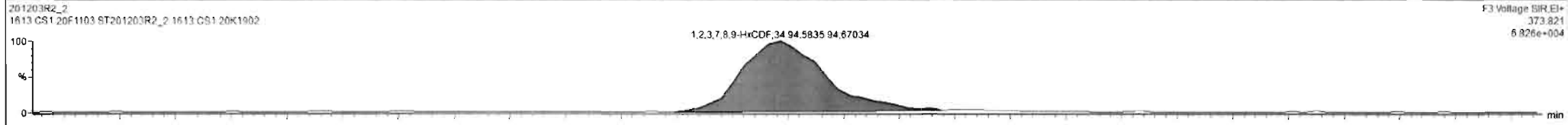
201203R2_2 - ST201203R2_2 1613 CS1 20K1902 - 1613 CS1 20K1902

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	0.0428	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-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	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	33.16	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

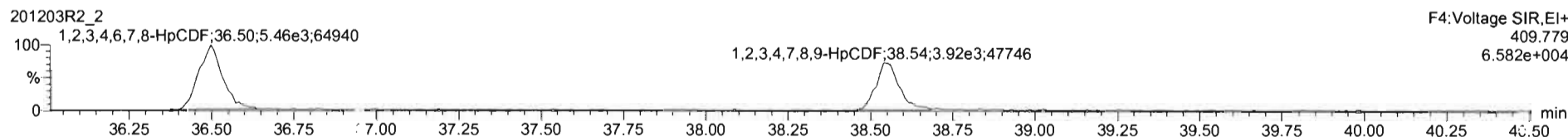
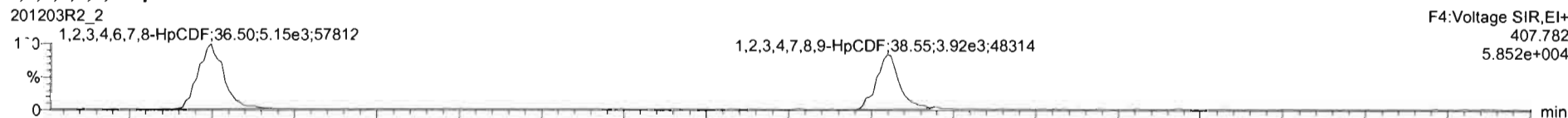


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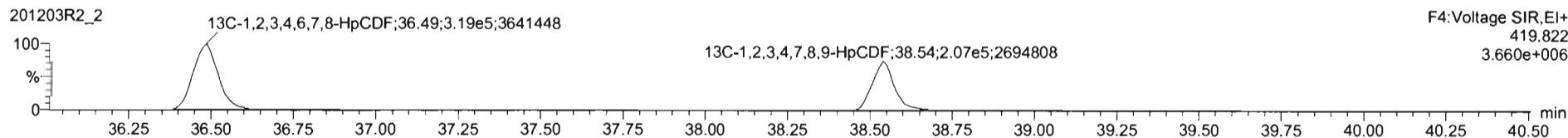
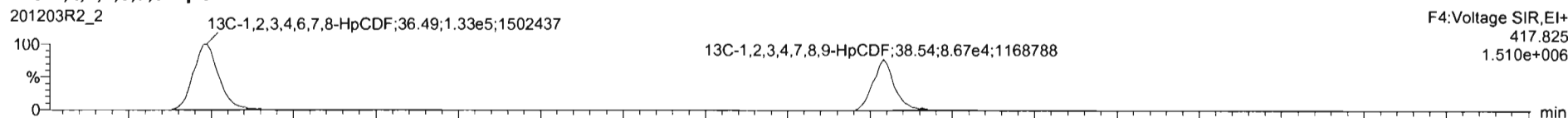
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_2, Date: 03-Dec-2020, Time: 11:28:04, ID: ST201203R2_2 1613 CS1 20K1902, Description: 1613 CS1 20F1103

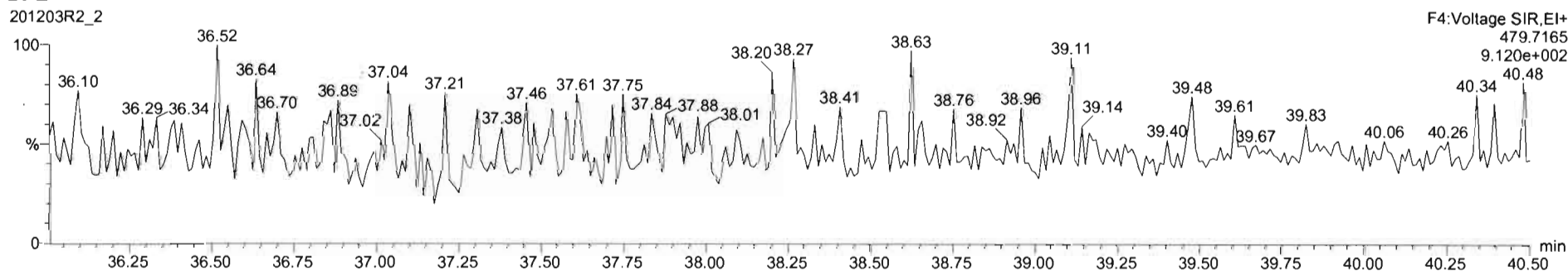
1,2,3,4,6,7,8-HpCDF



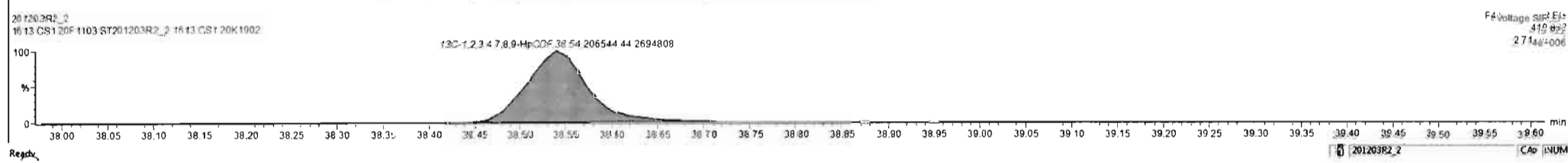
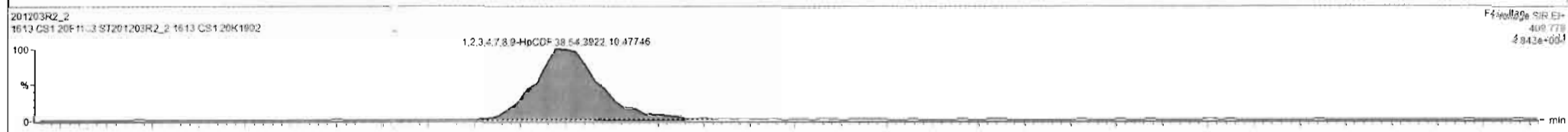
13C-1,2,3,4,6,7,8-HpCDF



DPE4



Name	Resp	RA	n/y	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	

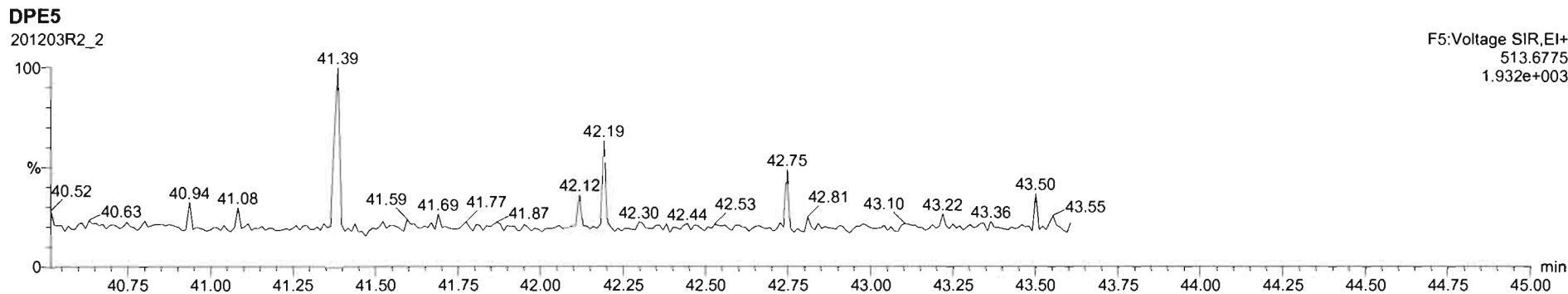
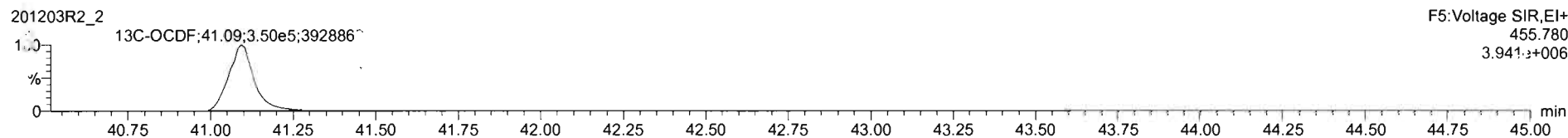
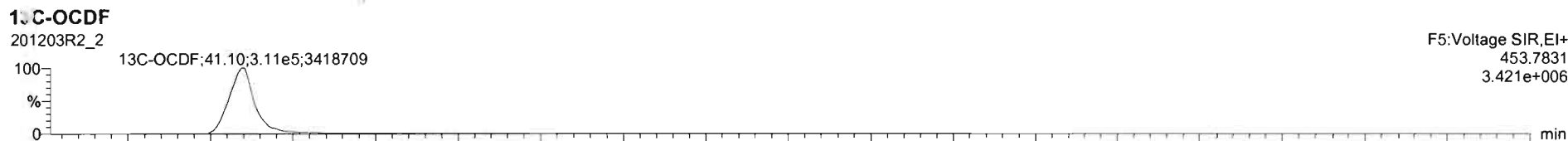
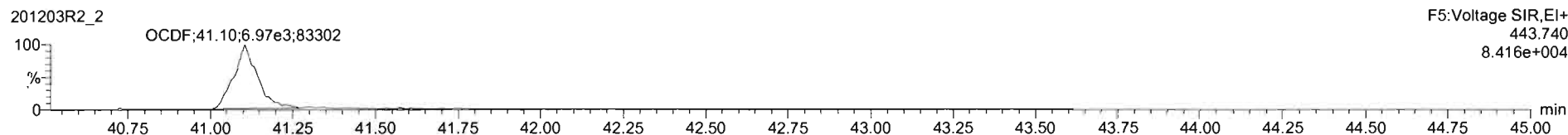
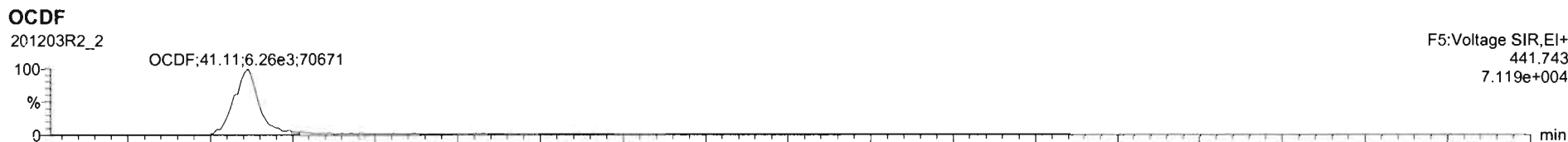


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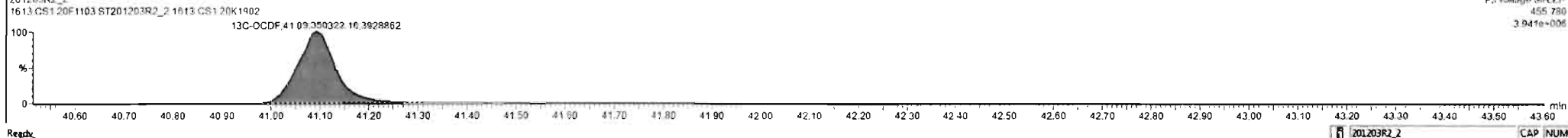
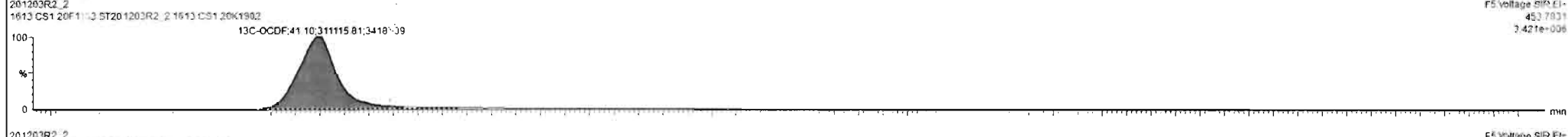
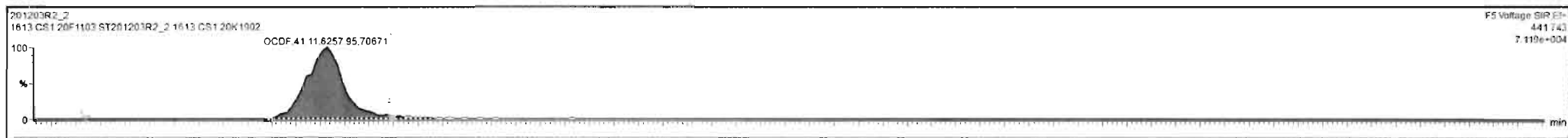
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Name: 201203R2_2, Date: 03-Dec-2020, Time: 11:28:04, ID: ST201203R2_2 1613 CS1 20K1902, Description: 1613 CS1 20F1103



201203R2_2 - ST201203R2_2 1613 CS1 20K1902 - 1613 CS1 20K1902

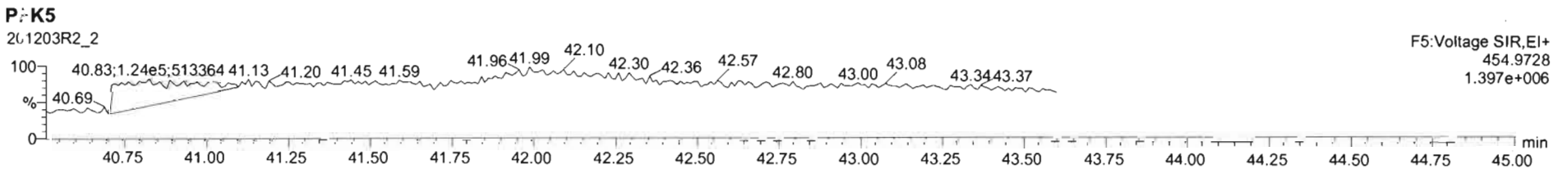
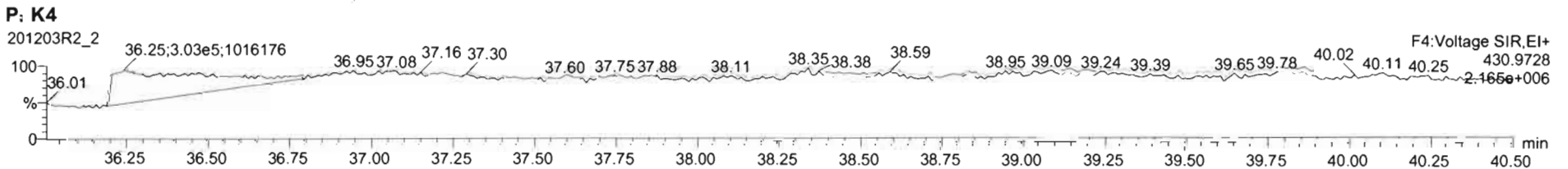
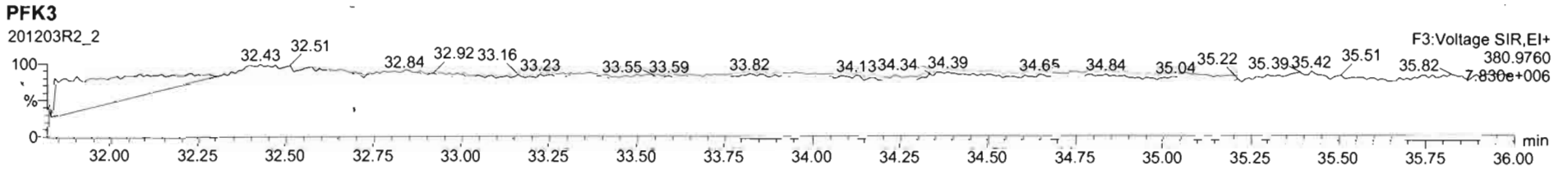
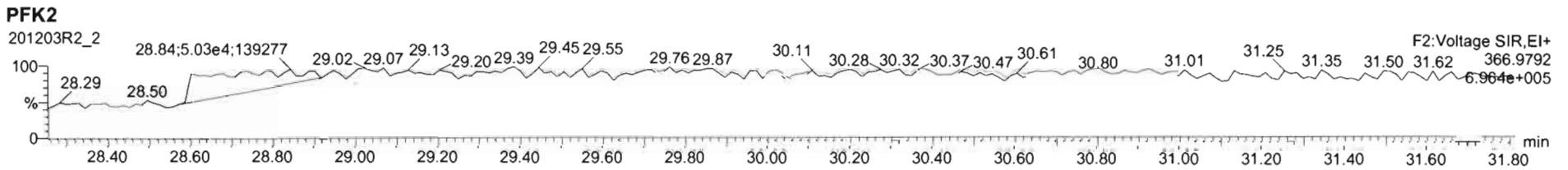
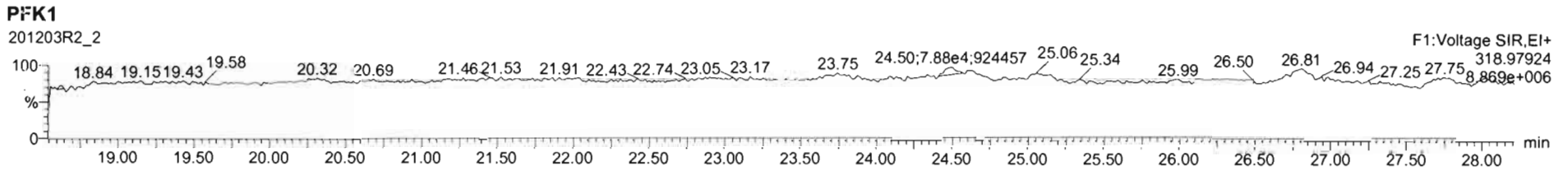
Name	Resp	RA	n/y	RRF	wf/wf	RT	RRT	Conc.	%Rec	DL	EMPC
16 1,2,3,4,7,8,9-HpCDF	7.84e3	1.00	NO	1.18	1.000	38.55	1.000	2.27	90.9	0.0487	2.27
17 OCDF	1.32e4	0.90	NO	0.90	1.000	41.11	1.000	4.46	89.3	0.0626	4.46
18 13C-2,3,7,8-TCDD	7.75e5	0.78	NO	1.06	1.000	25.18	1.021	90.5	90.5	0.123	
19 13C-1,2,3,7,8-PeCDD	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	82.5	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	



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_2, Date: 03-Dec-2020, Time: 11:28:04, ID: ST201203R2_2 1613 CS1 20K1902, Description: 1613 CS1 20F1103



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

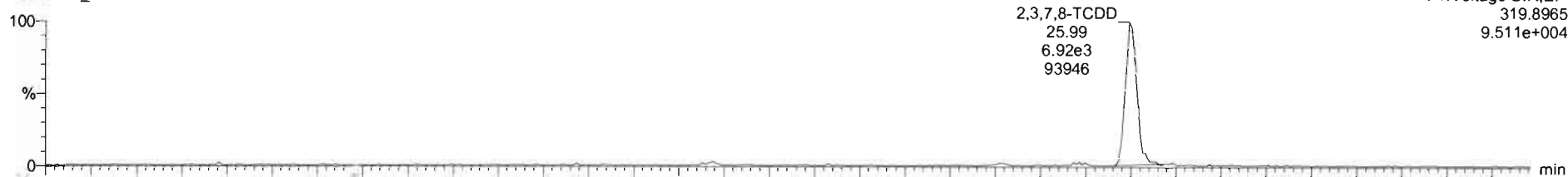
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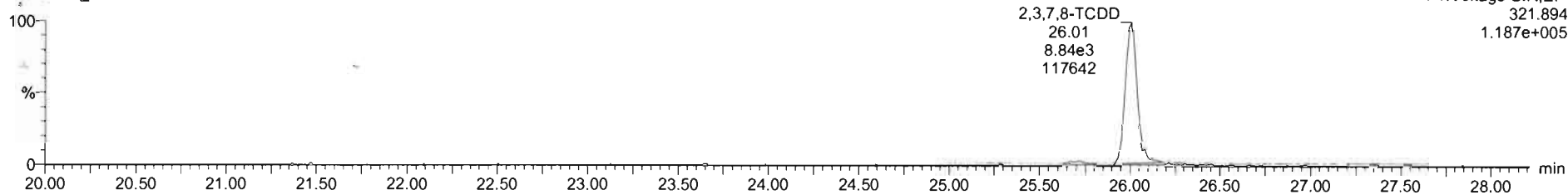
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2,3,7,8-TCDD

201203R2_3

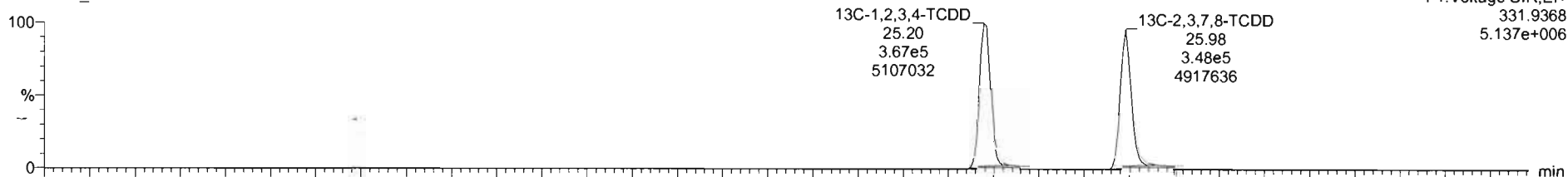


201203R2_3

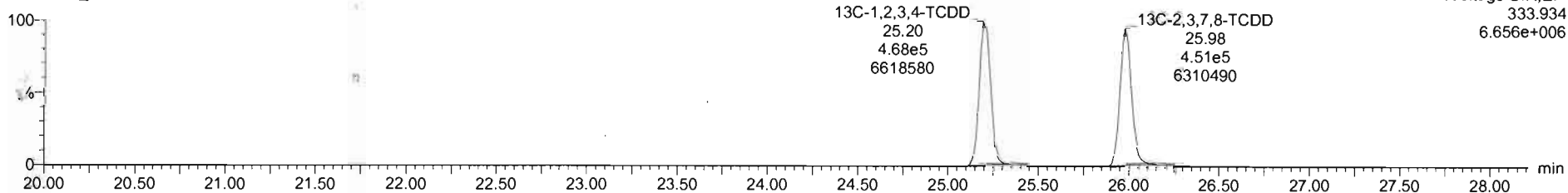


13C-2,3,7,8-TCDD

201203R2_3



201203R2_3



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

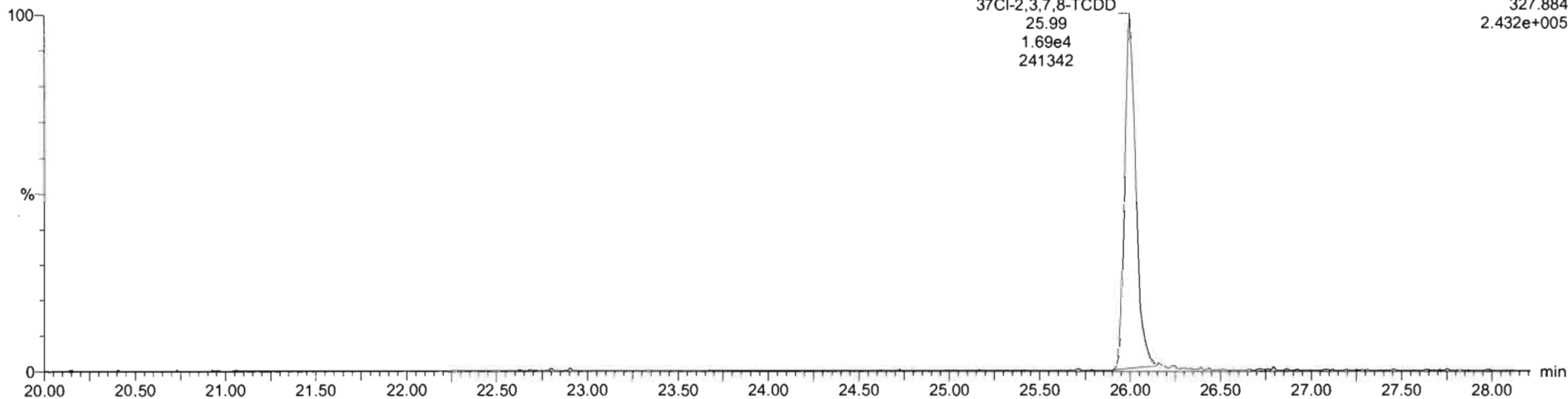
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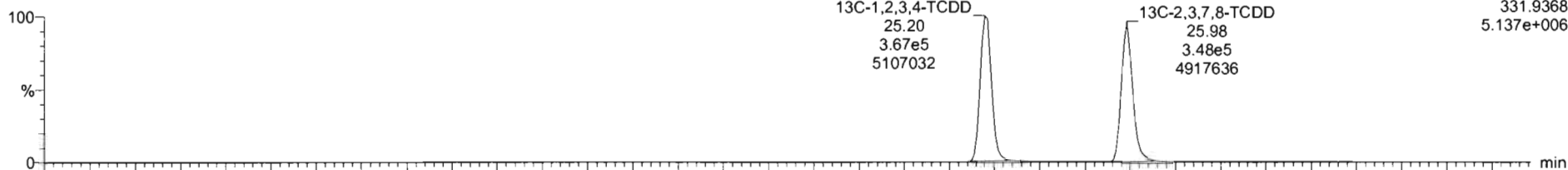
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201203R2_3

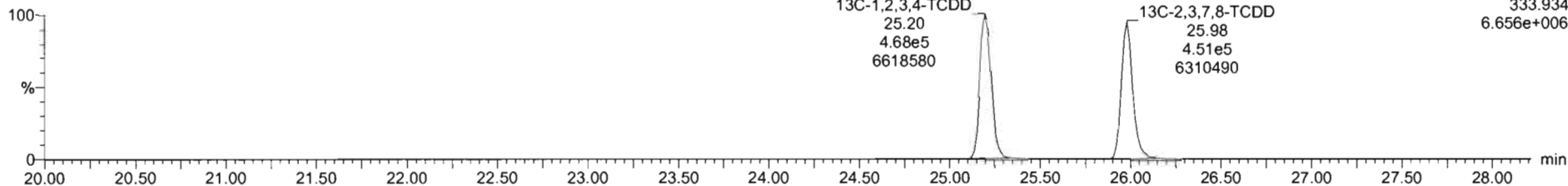


13C-1,2,3,4-TCDD

201203R2_3



201203R2_3



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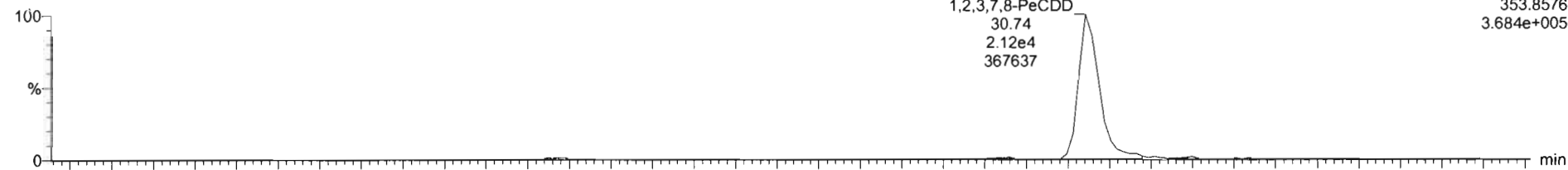
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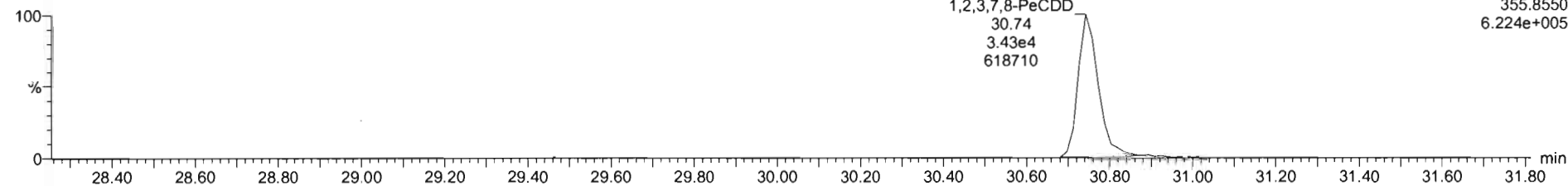
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1,2,3,7,8-PeCDD

201203R2_3

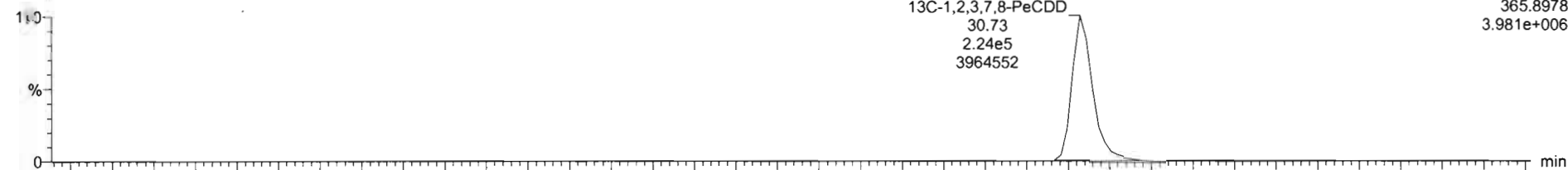


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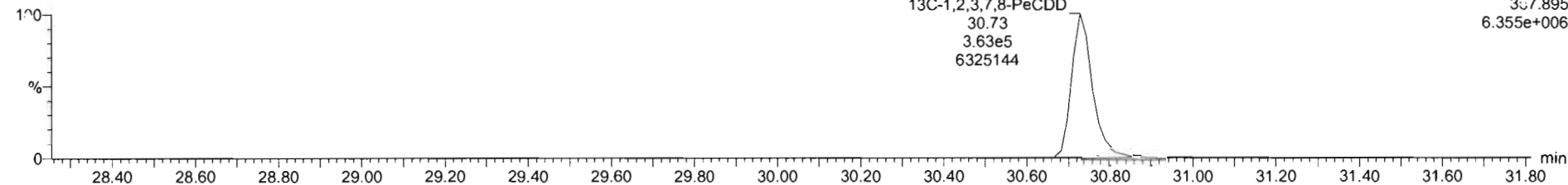


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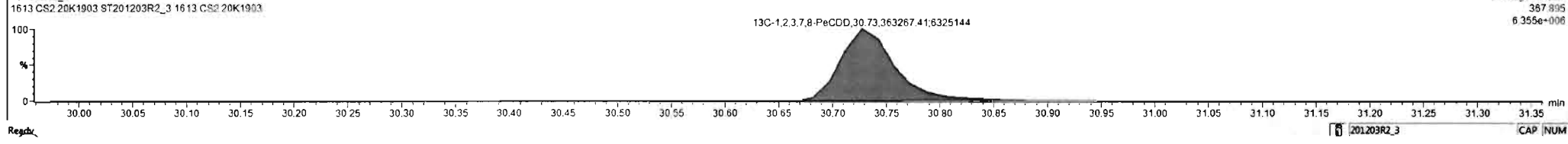
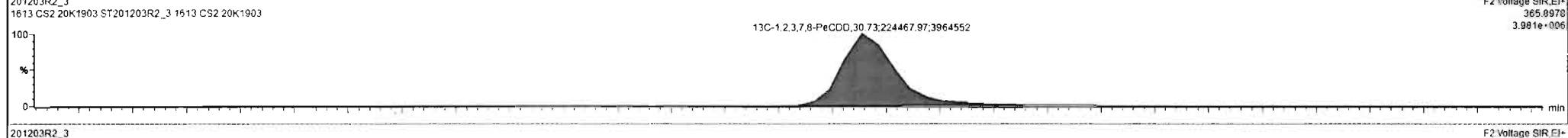
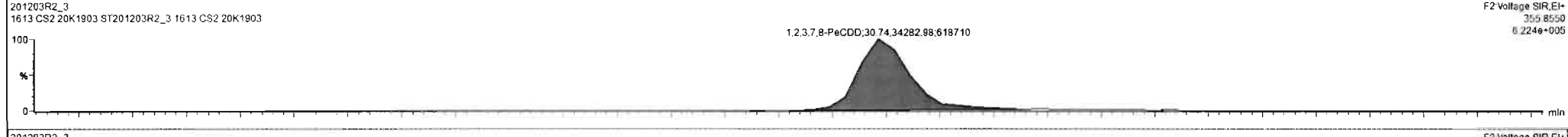
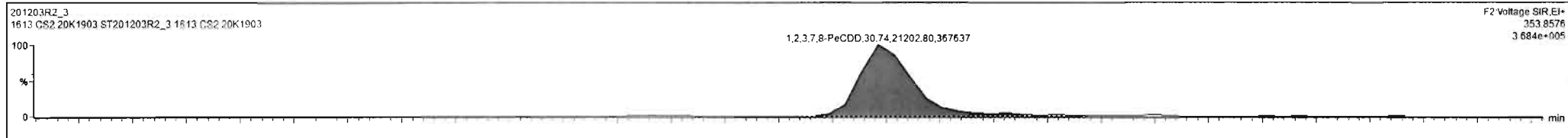
201203R2_3



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-HxCDF	9.54e4	8.55e5	1.55	1.83	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



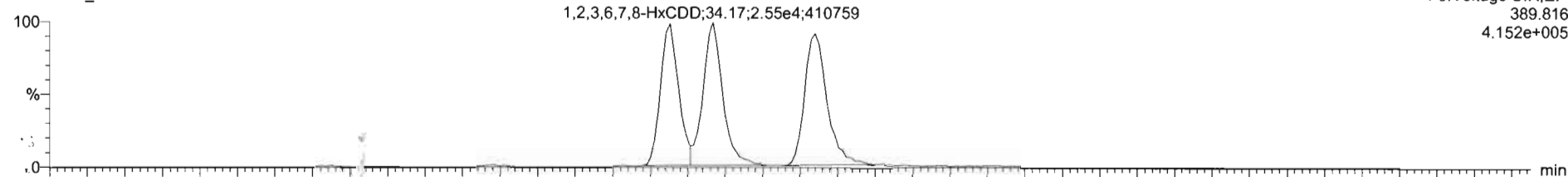
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

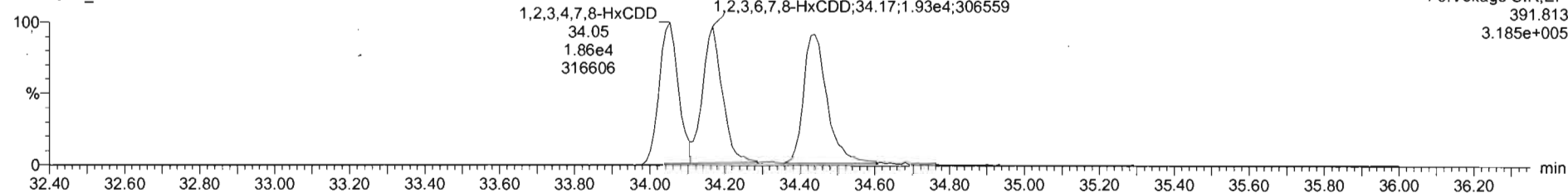
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1,2,3,4,7,8-HxCDD

201203R2_3

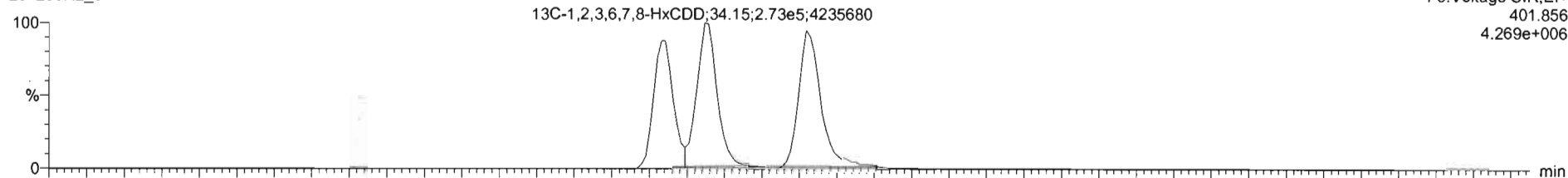


201203R2_3

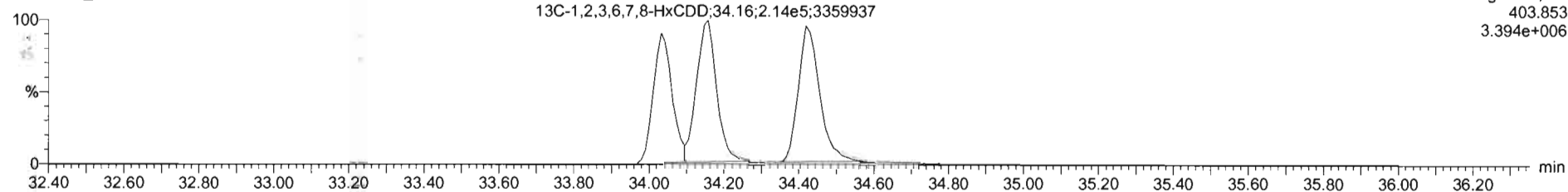


13C-1,2,3,4,7,8-HxCDD

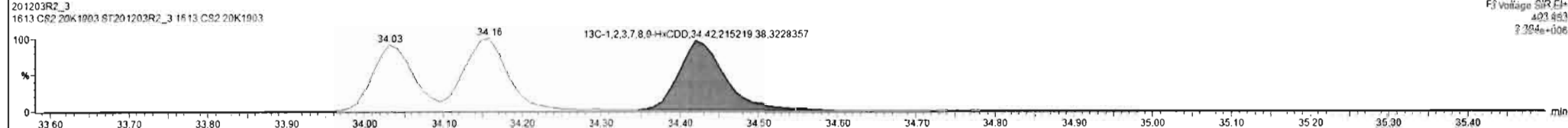
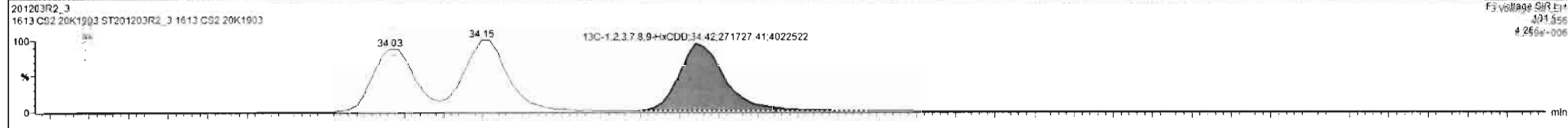
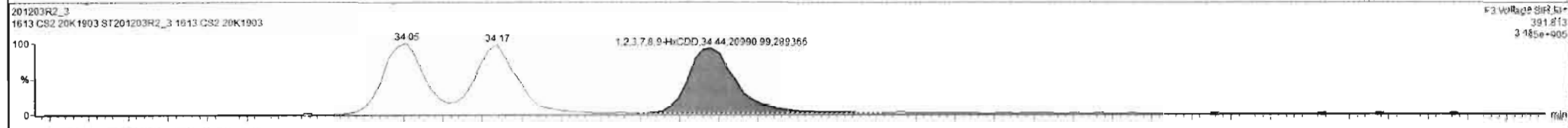
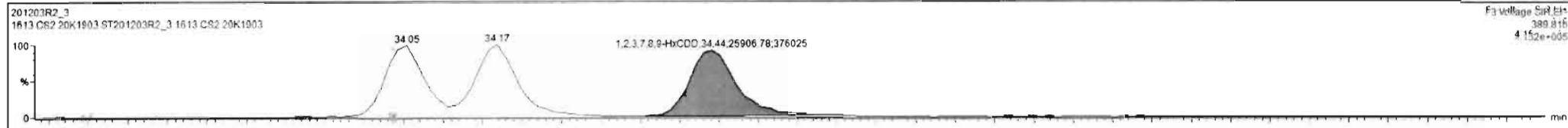
201203R2_3



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



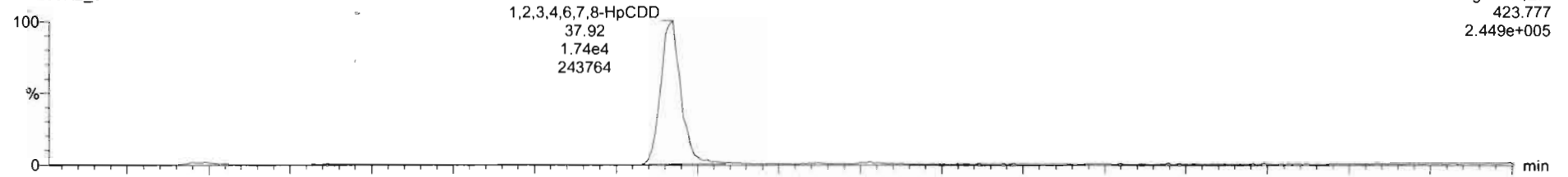
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_3, Date: 03-Dec-2020, Time: 12:14:40, ID: ST201203R2_3 1613 CS2 20K1903, Description: 1613 CS2 20K1903

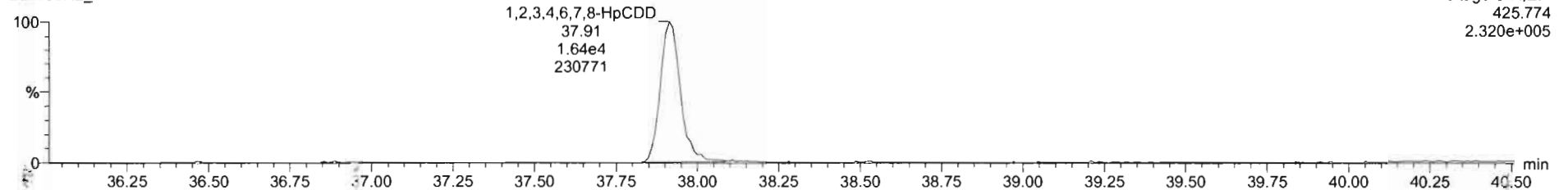
1,2,3,4,6,7,8-HpCDD

201203R2_3



F4:Voltage SIR, EI+
423.777
2.449e+005

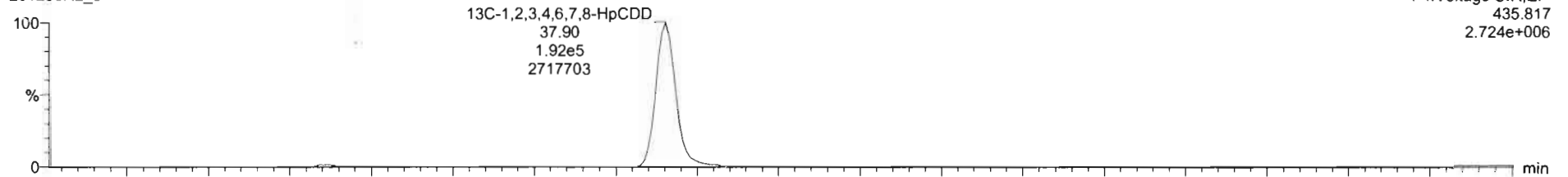
201203R2_3



F4:Voltage SIR, EI+
425.774
2.320e+005

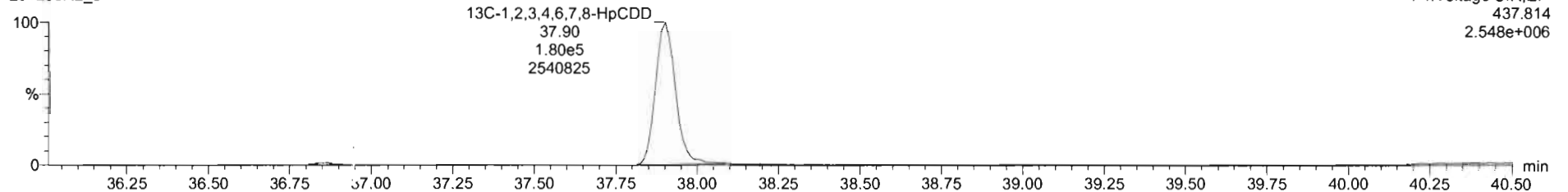
¹³C-1,2,3,4,6,7,8-HpCDD

201203R2_3



F4:Voltage SIR, EI+
435.817
2.724e+006

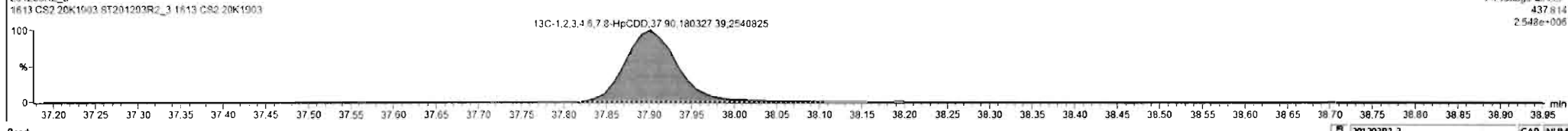
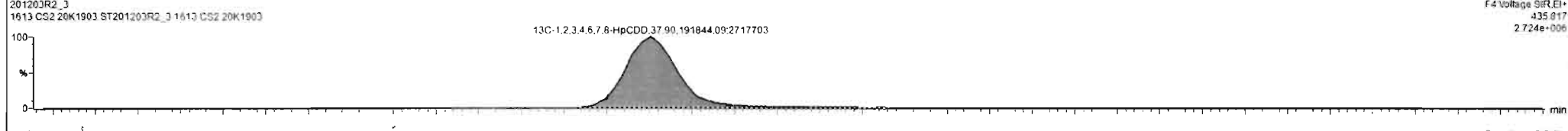
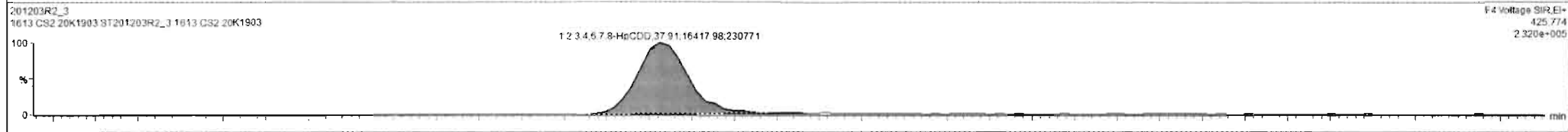
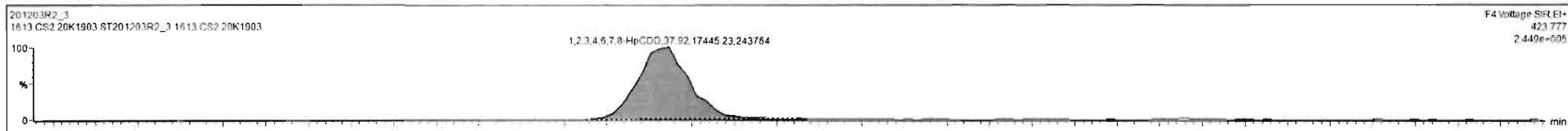
201203R2_3



F4:Voltage SIR, EI+
437.814
2.548e+006

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	1.83	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

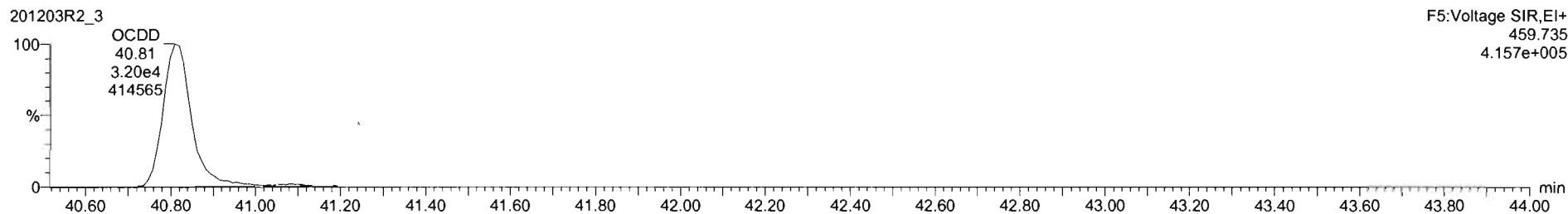
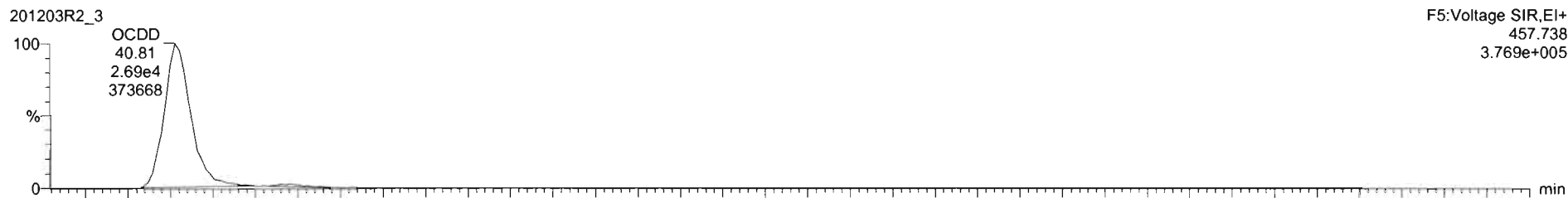


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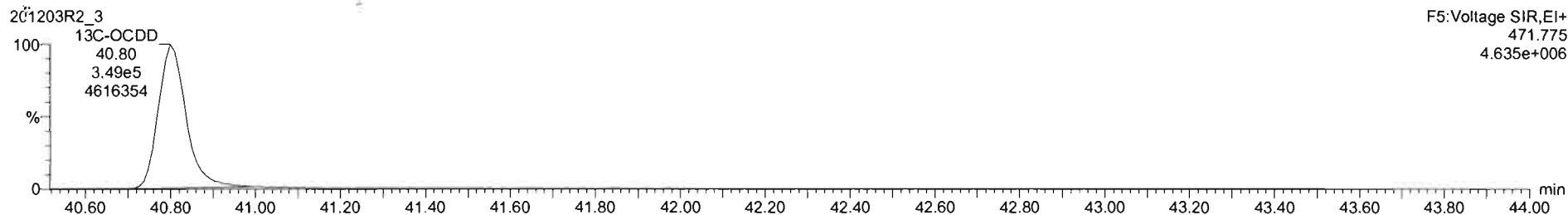
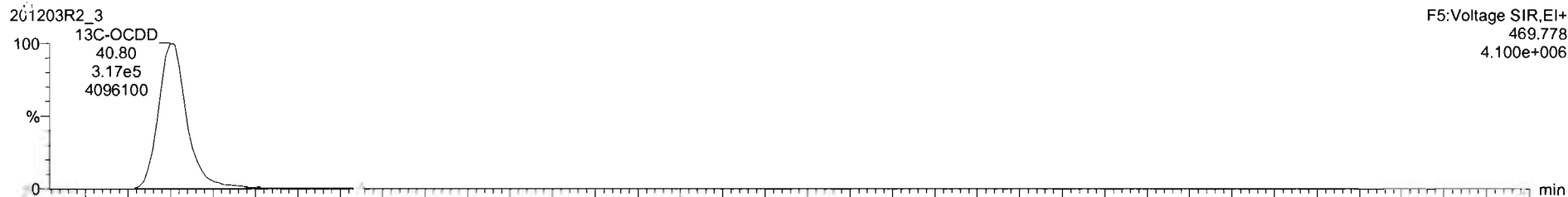
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Name: 201203R2_3, Date: 03-Dec-2020, Time: 12:14:40, ID: ST201203R2_3 1613 CS2 20K1903, Description: 1613 CS2 20K1903

OCDD

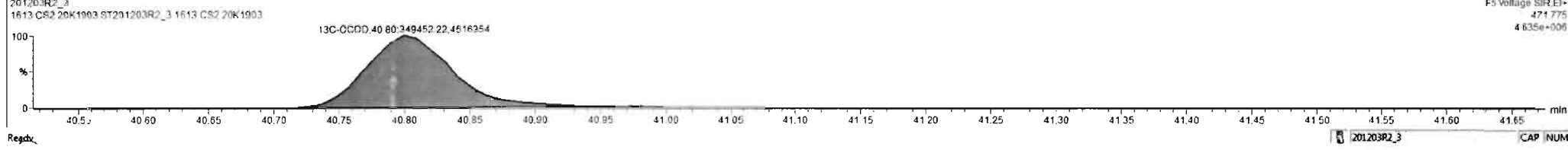
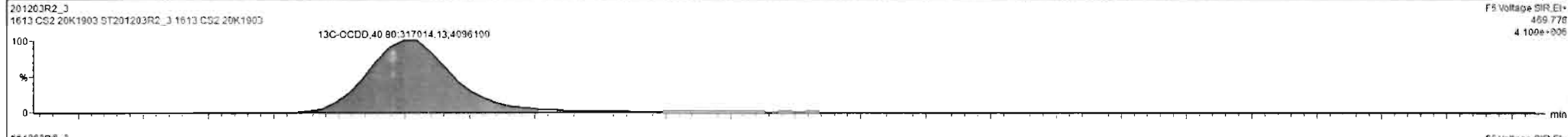
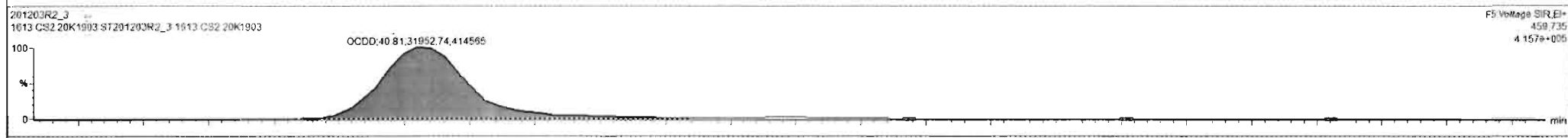


¹³C-OCDD



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	1,2,3,6,7,8,9-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	5.03e4	5.05e5	1.24	1.25	NO	0.9888	34.92	34.94	NO	1.000	1.001	10.1	101	NO



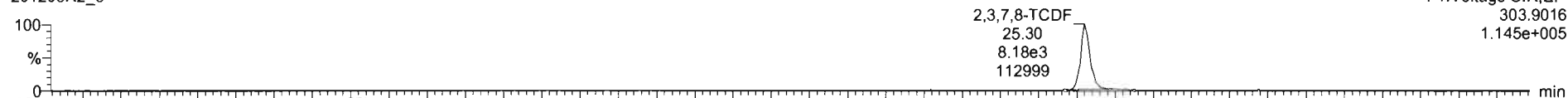
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

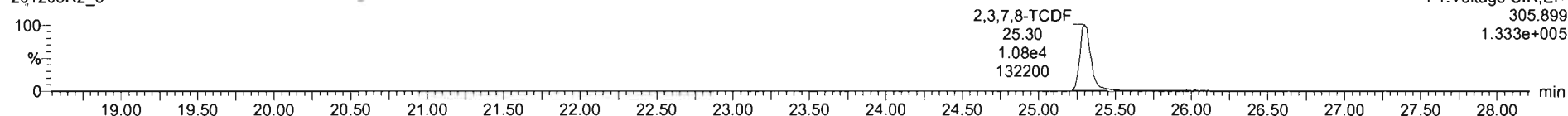
N..me: 201203R2_3, Date: 03-Dec-2020, Time: 12:14:40, ID: ST201203R2_3 1613 CS2 20K1903, Description: 1613 CS2 20K1903

2,3,7,8-TCDF

201203R2_3

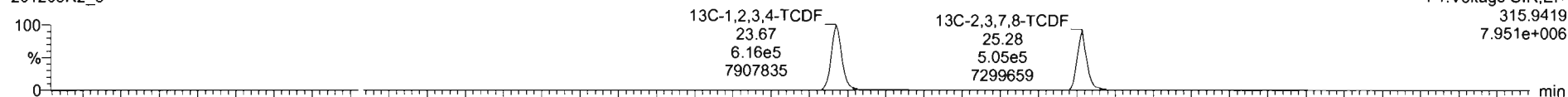


201203R2_3

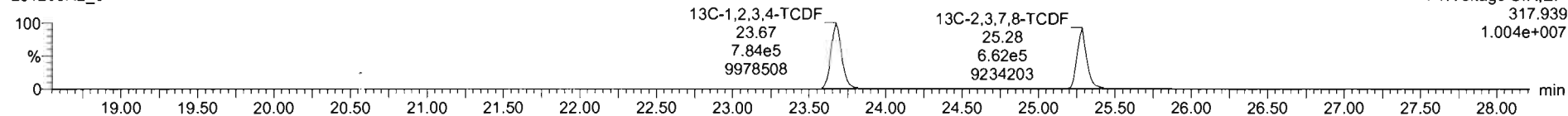


13C-2,3,7,8-TCDF

201203R2_3

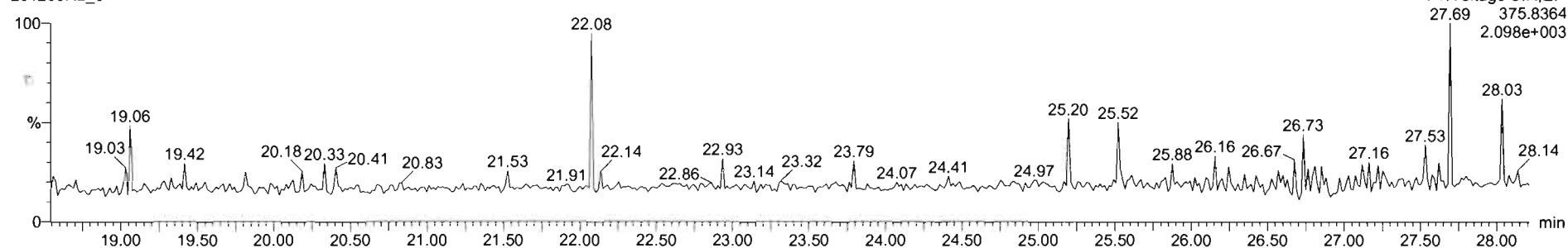


201203R2_3



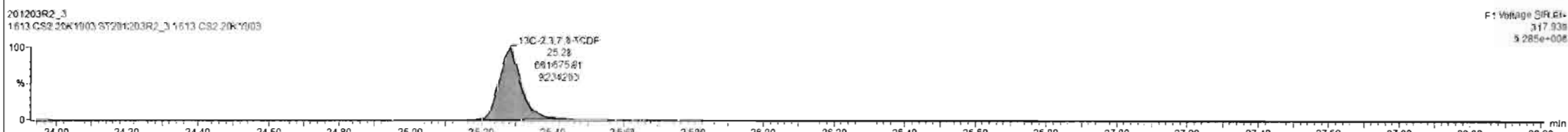
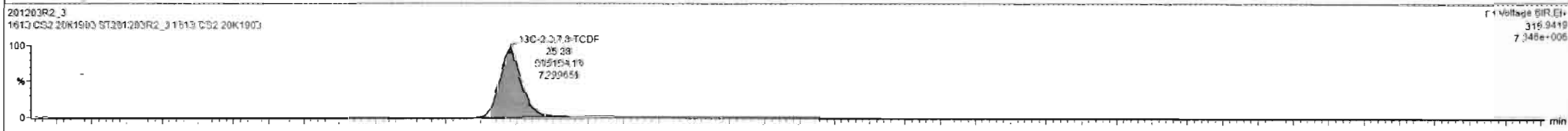
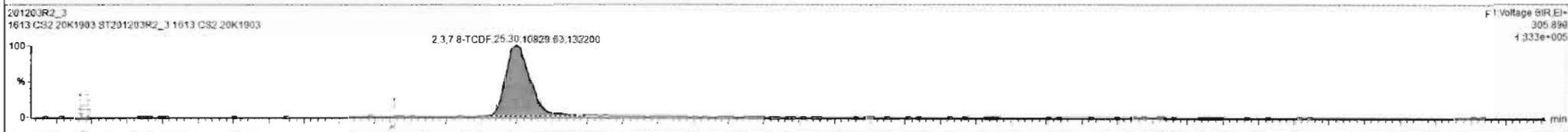
DPE1

201203R2_3



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	1.56e4	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	1.9597	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-HxCDF	5.03e4	5.05e5	1.24	1.25	NO	1.0888	34.92	34.94	NO	1.000	1.001	10.1	101	NO



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

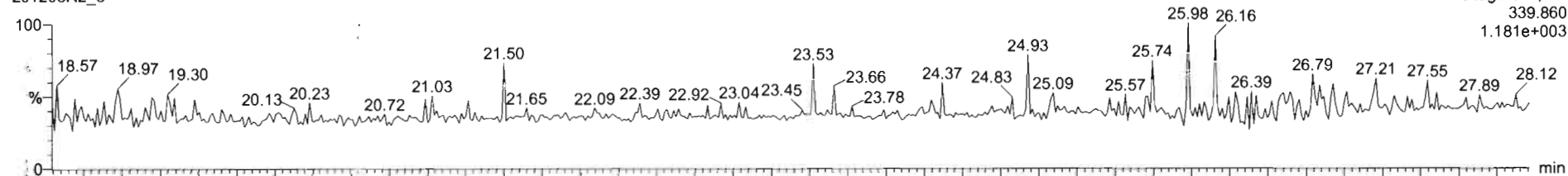
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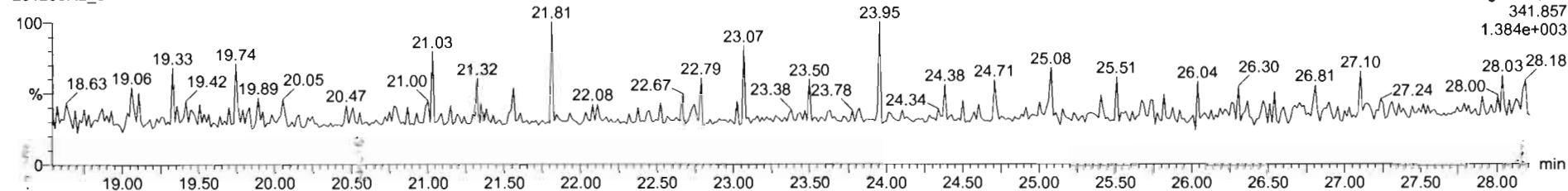
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1st Func. Penta-Furans

201203R2_3

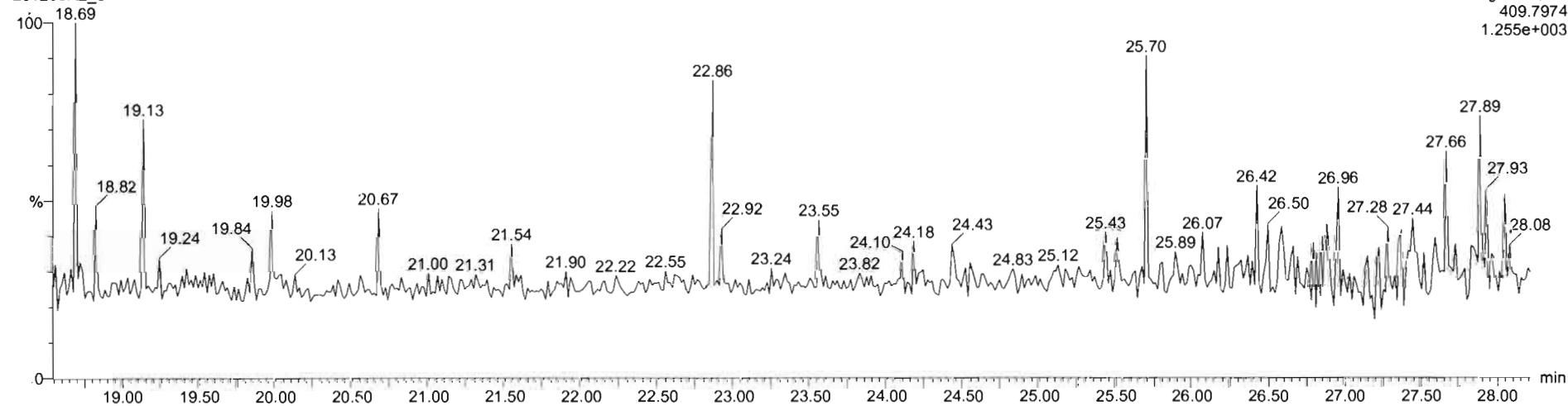


201203R2_3



DPE6

201203R2_3



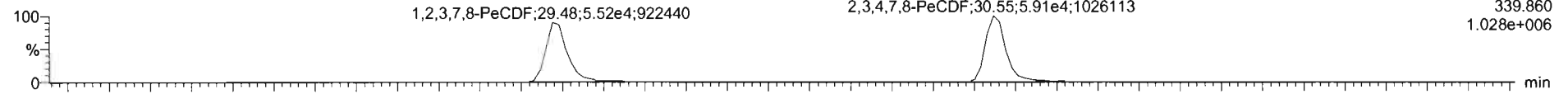
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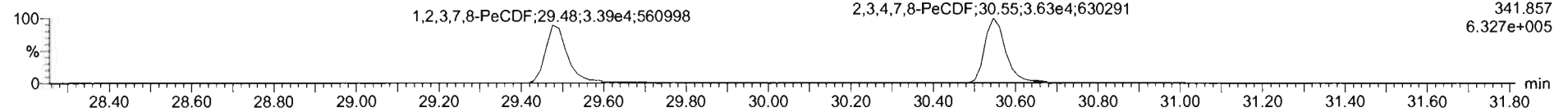
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1,2,3,7,8-PeCDF

201203R2_3

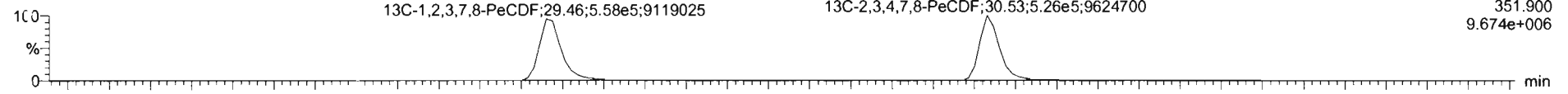


201203R2_3

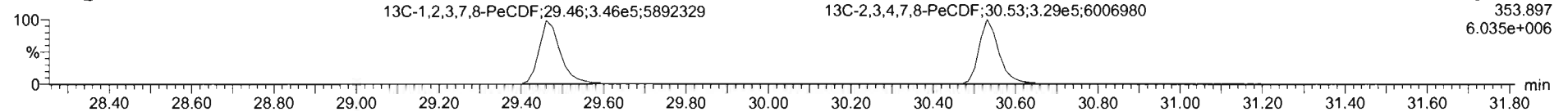


13C-1,2,3,7,8-PeCDF

201203R2_3

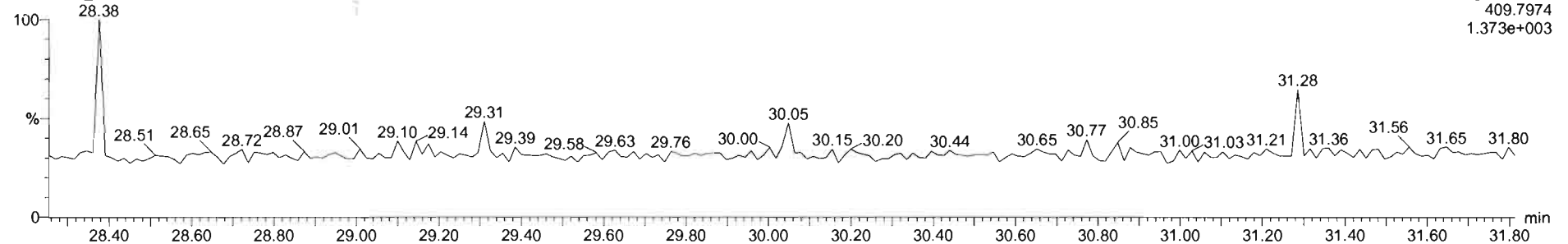


201203R2_3

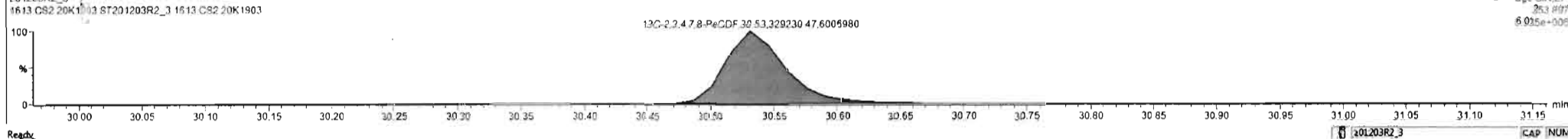
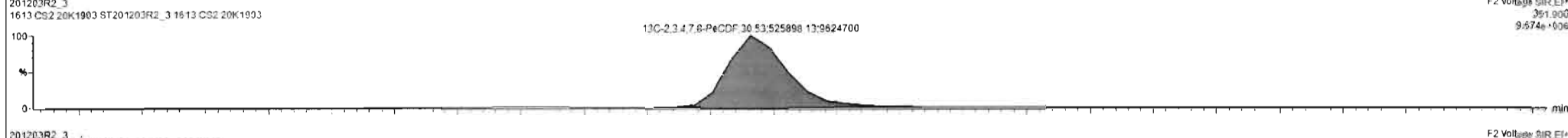
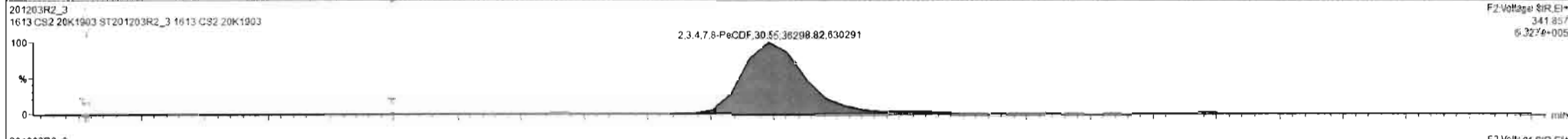
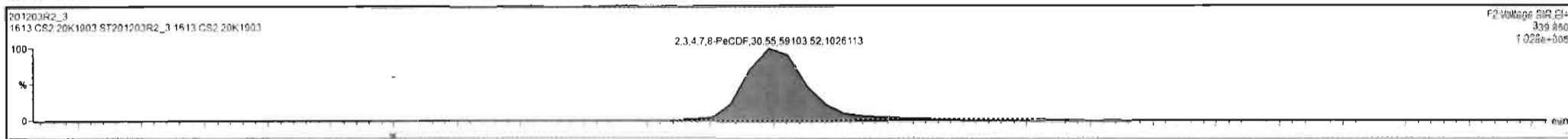


DPE2

201203R2_3



#	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	0.8460	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



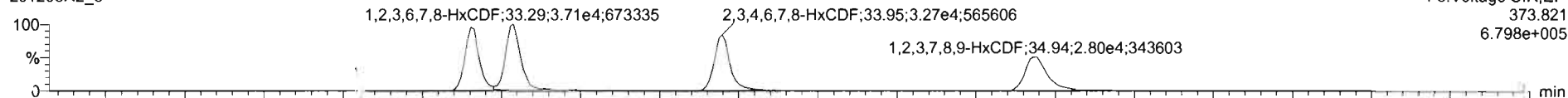
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

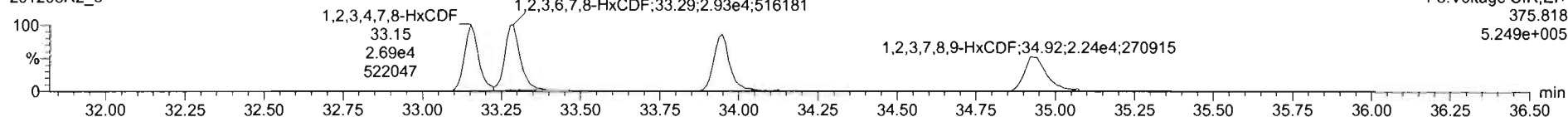
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1,2,3,4,7,8-HxCDF

201203R2_3

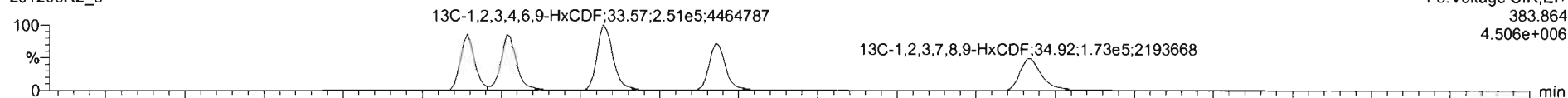


201203R2_3

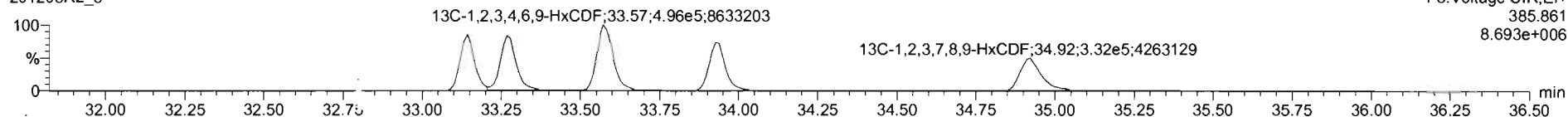


13C-1,2,3,4,7,8-HxCDF

201203R2_3

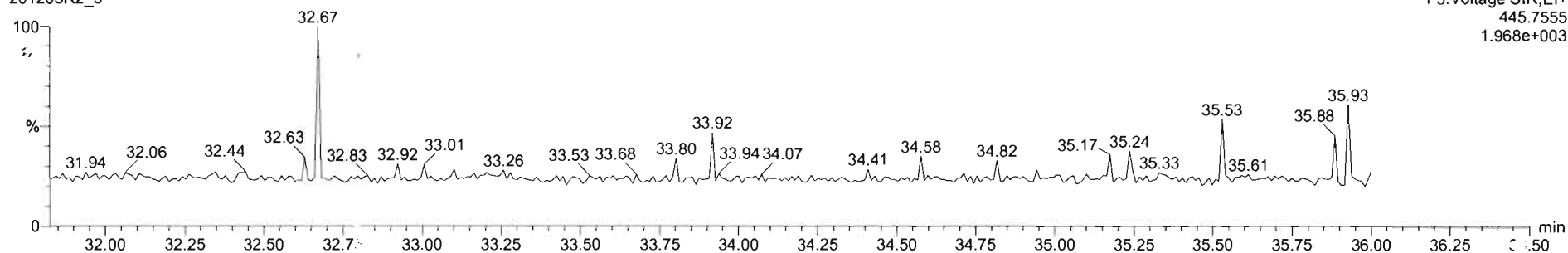


201203R2_3

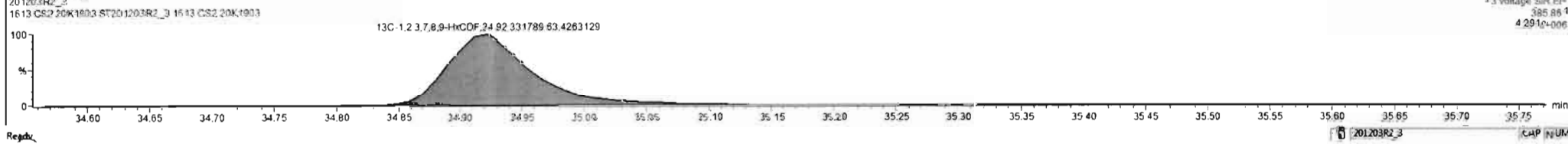


DPE3

201203R2_3



#	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

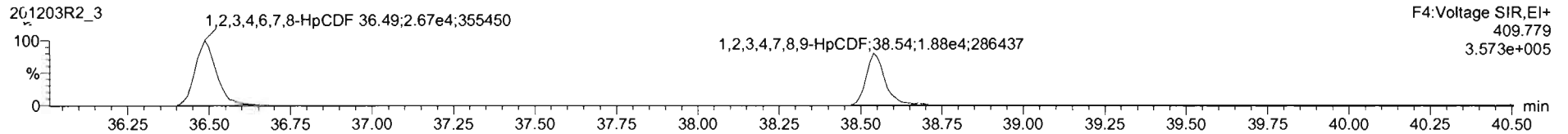
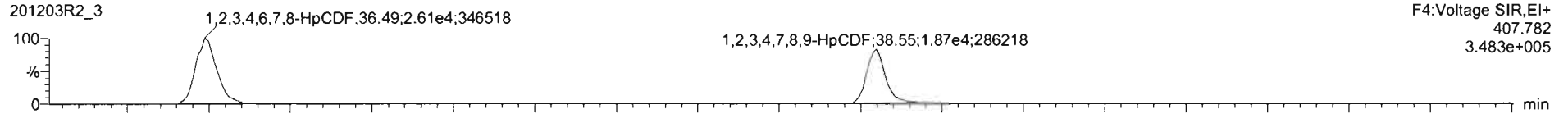


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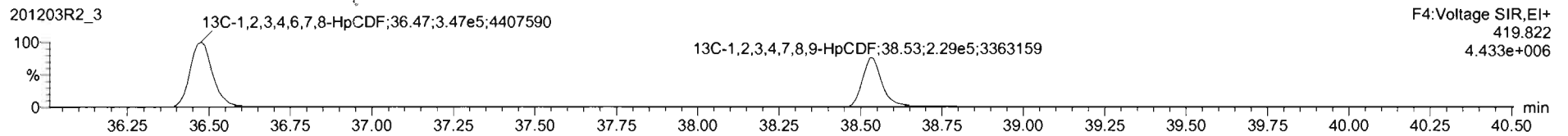
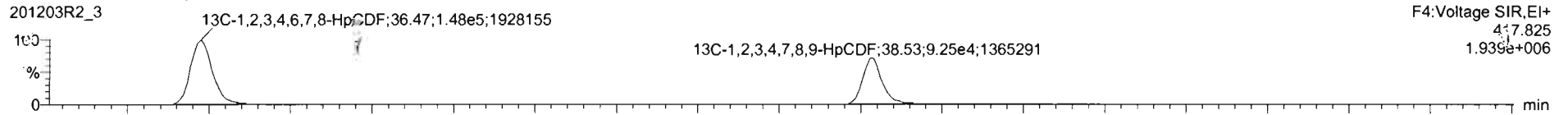
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

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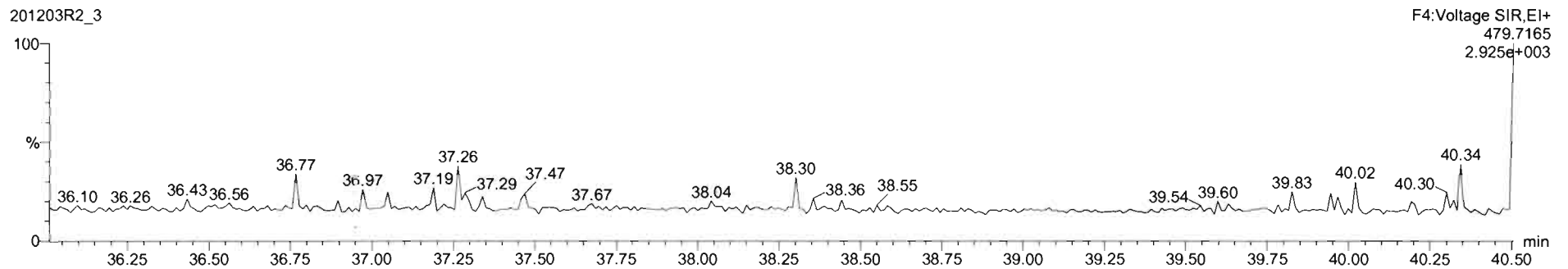
1,2,3,4,6,7,8-HpCDF



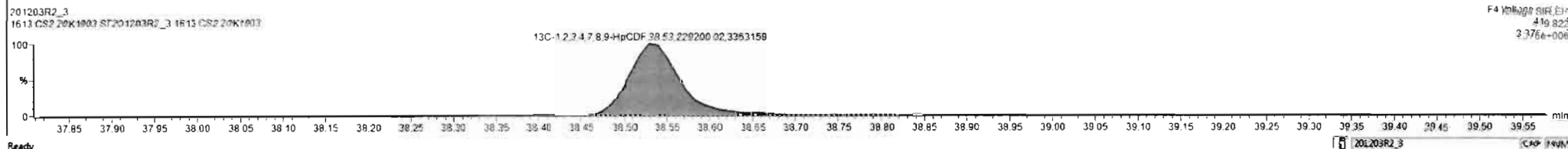
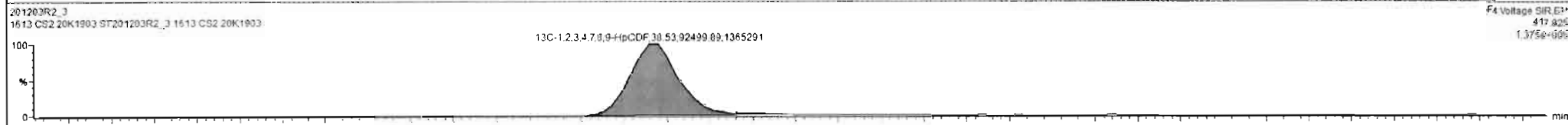
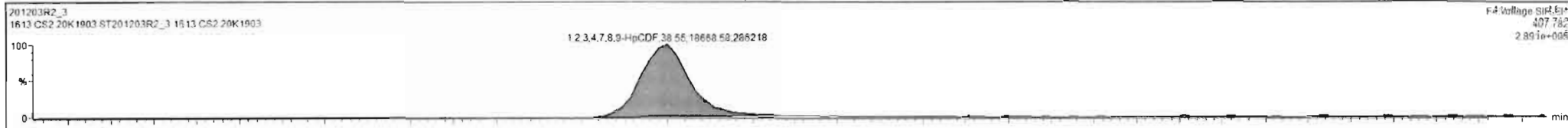
13C-1,2,3,4,6,7,8-HpCDF



DPE4



#	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



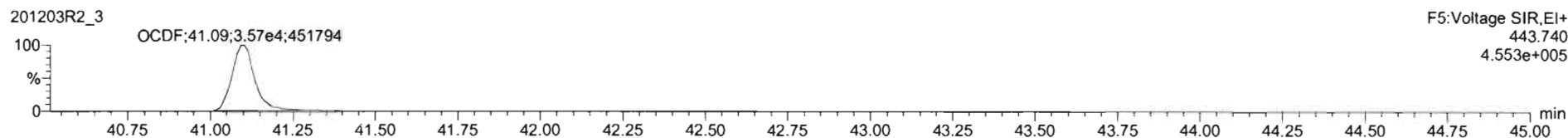
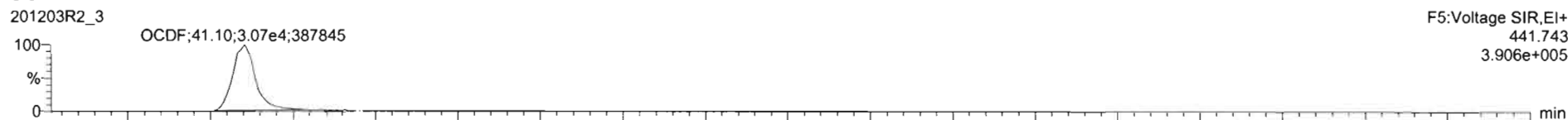
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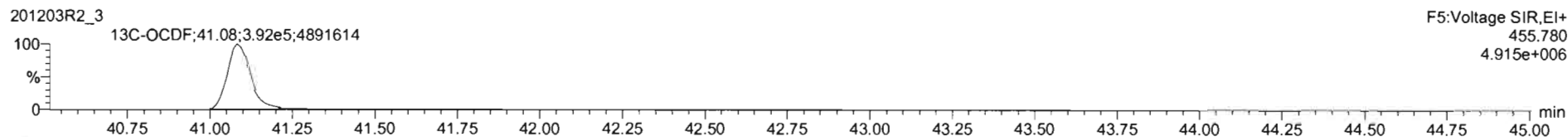
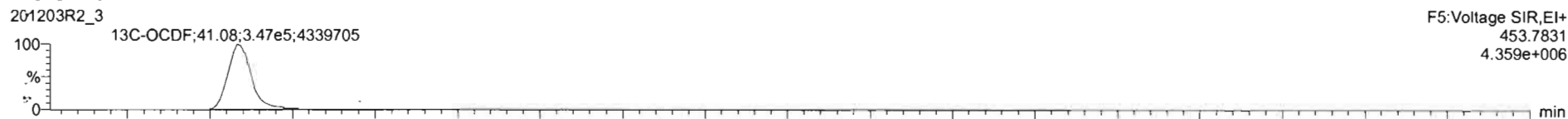
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Name: 201203R2_3, Date: 03-Dec-2020, Time: 12:14:40, ID: ST201203R2_3 1613 CS2 20K1903, Description: 1613 CS2 20K1903

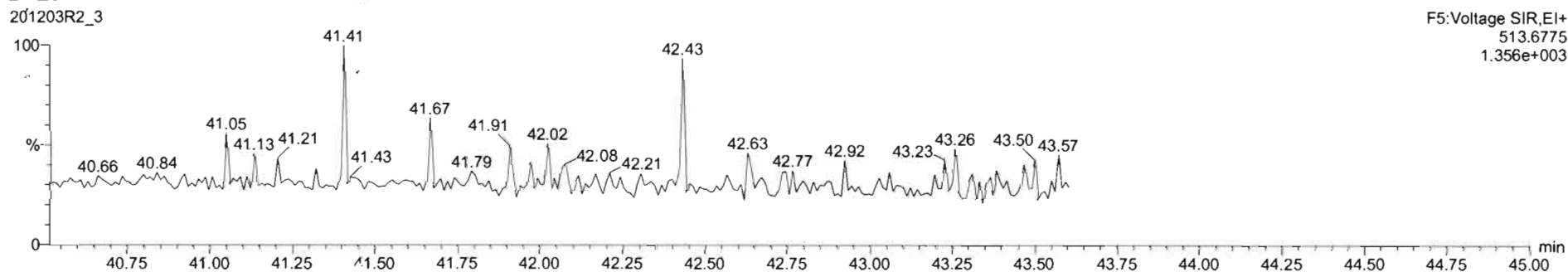
OCDF



¹³C-OCDF



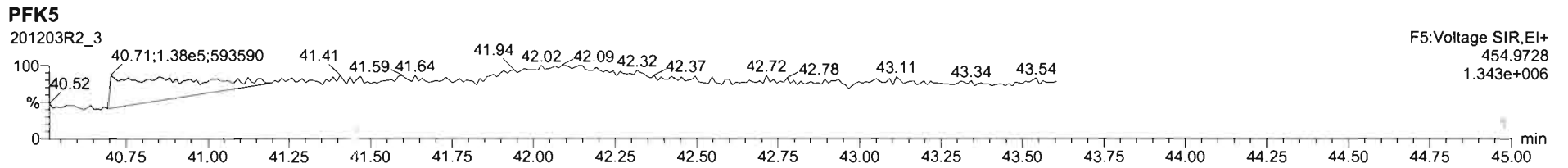
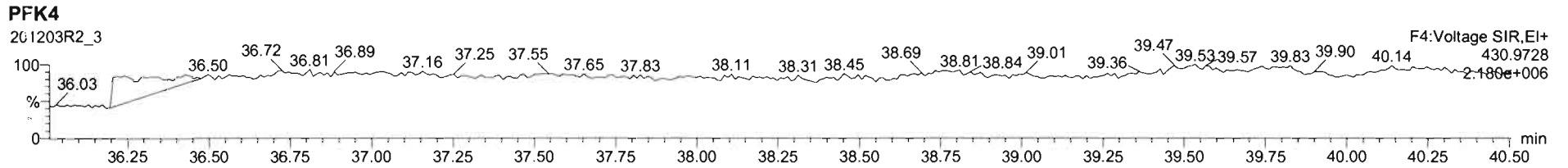
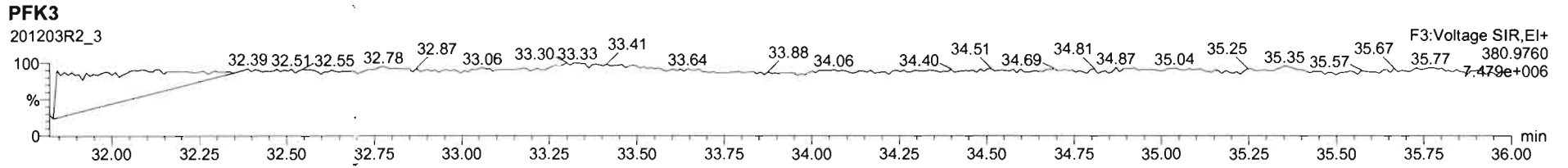
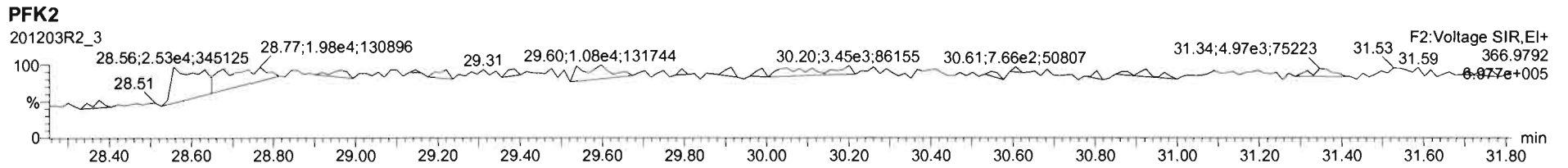
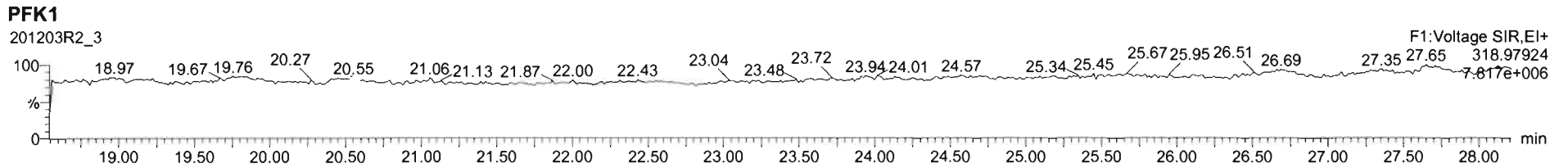
DPE5



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



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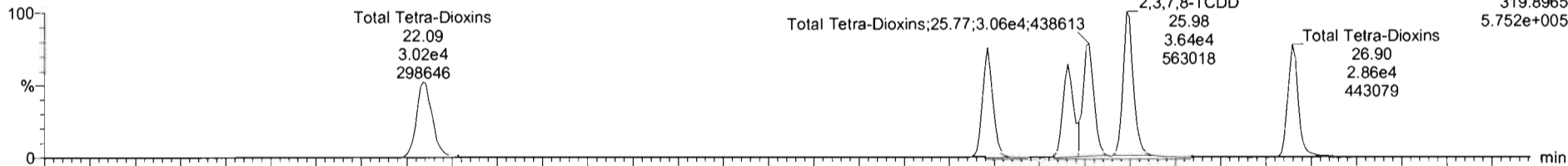
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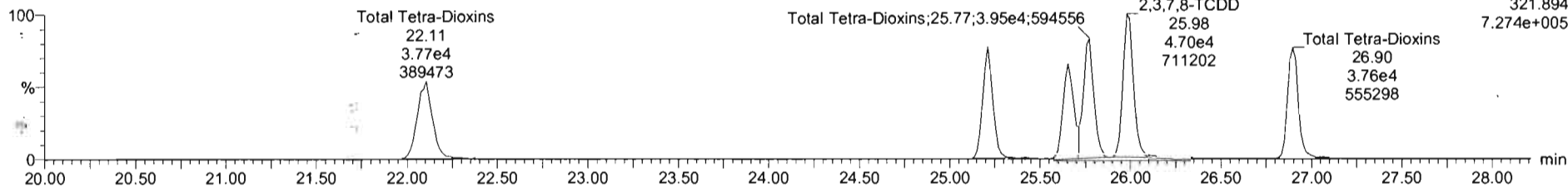
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2,3,7,8-TCDD

201203R2_6

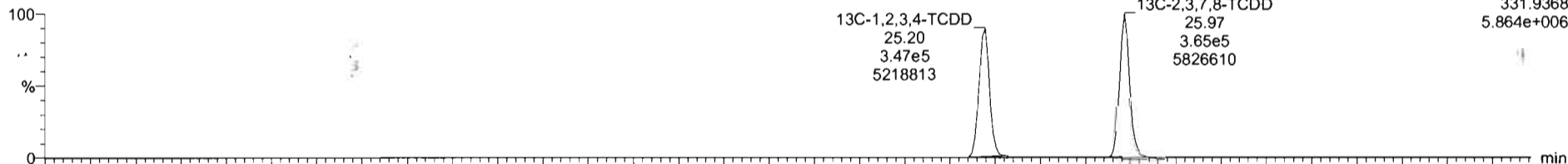


201203R2_6

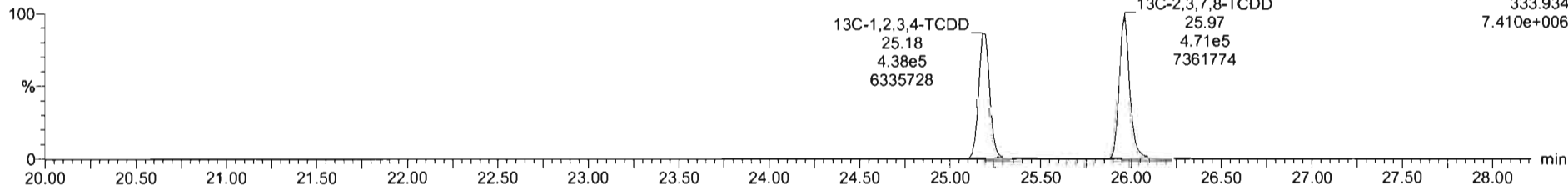


13C-2,3,7,8-TCDD

201203R2_6



201203R2_6



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

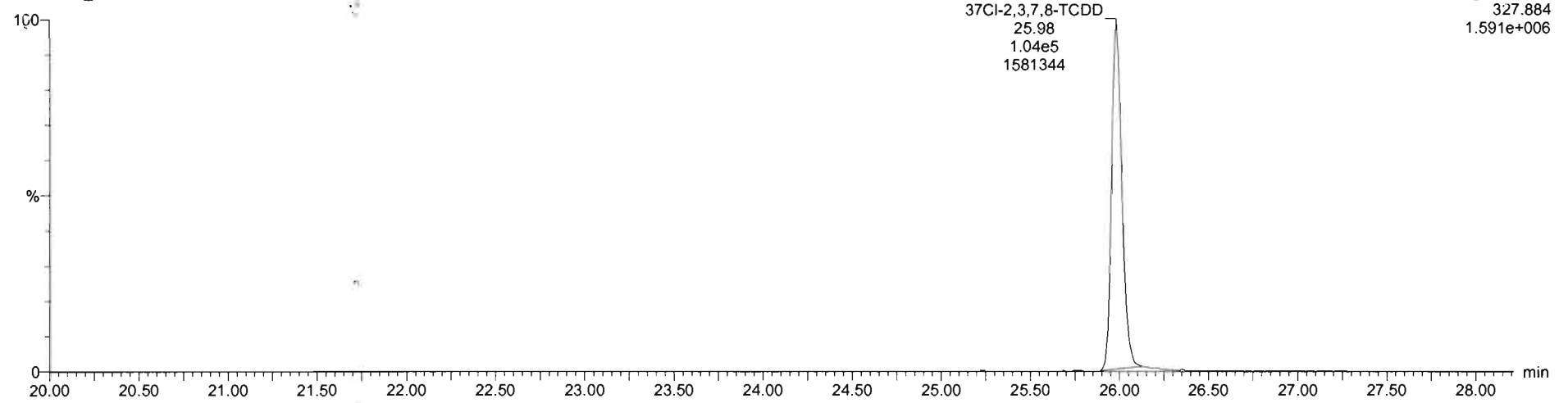
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

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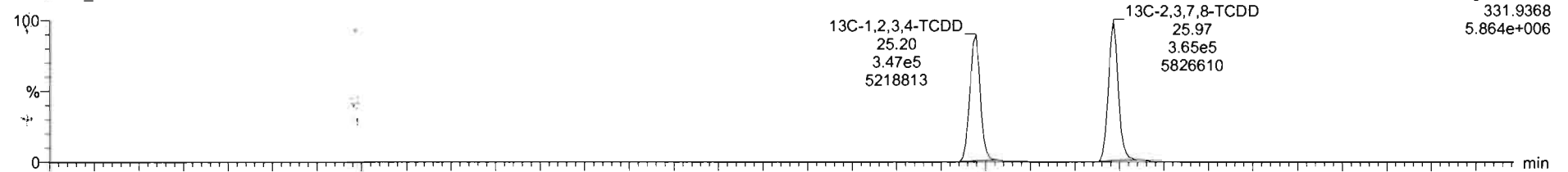
37Cl-2,3,7,8-TCDD

201203R2_6

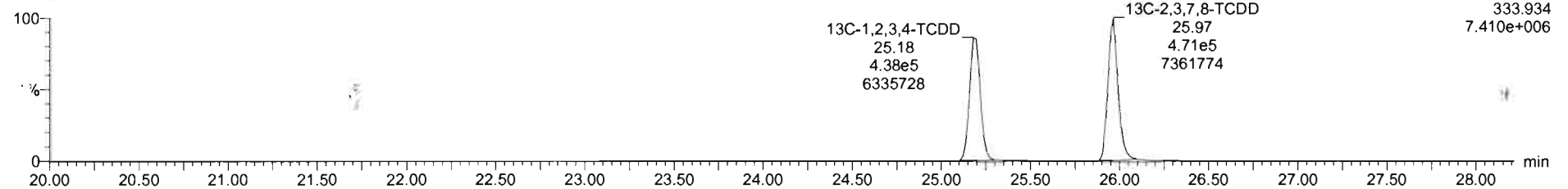


13C-1,2,3,4-TCDD

201203R2_6



201203R2_6



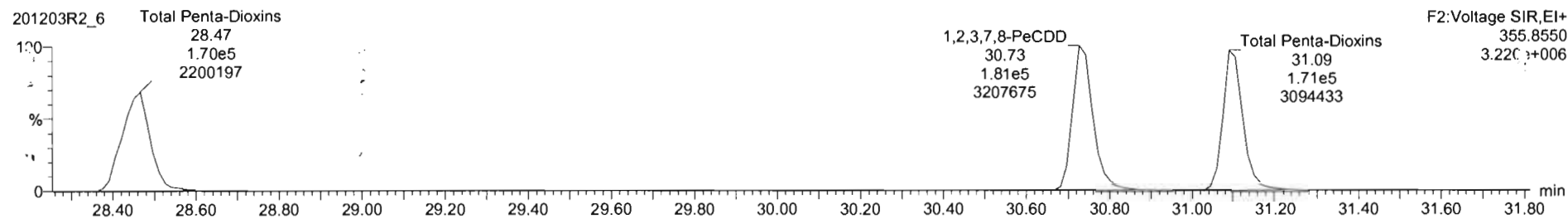
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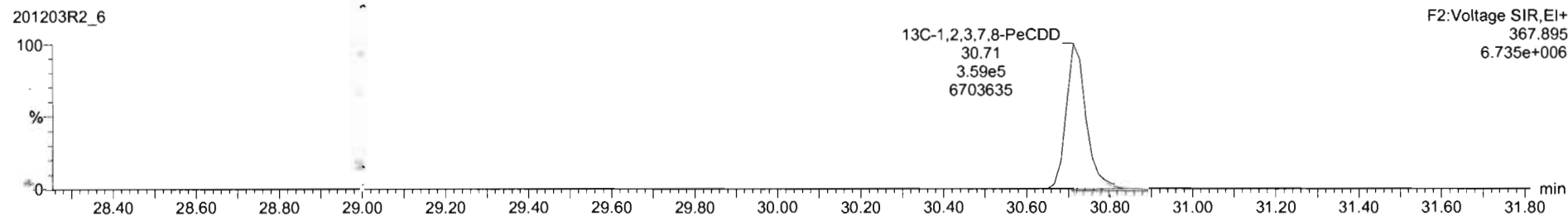
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1,2,3,7,8-PeCDD



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



Dataset: Untitled

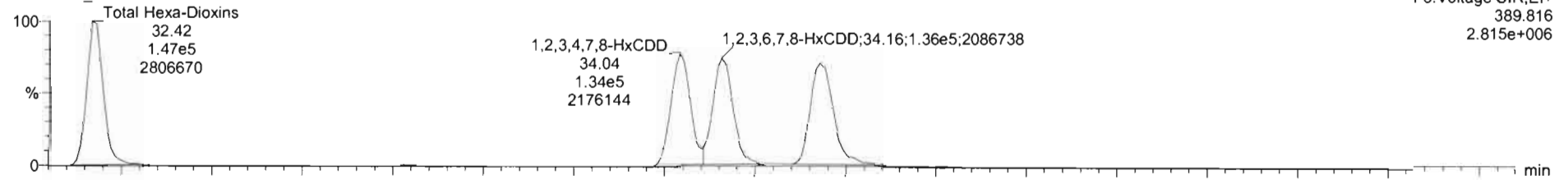
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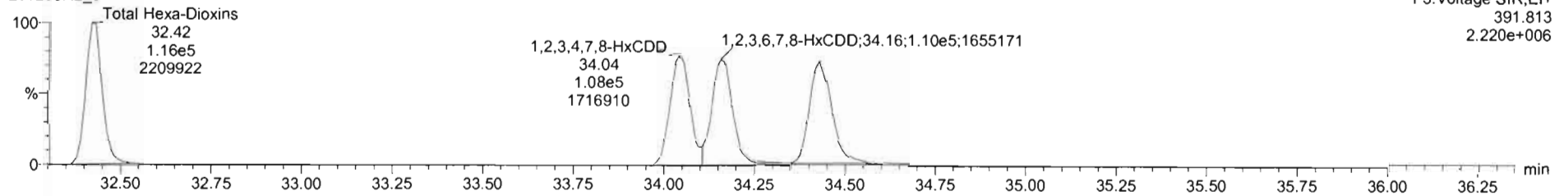
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1,2,3,4,7,8-HxCDD

201203R2_6

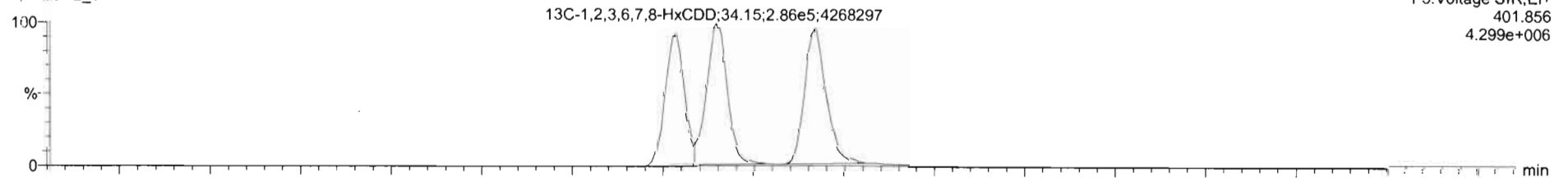


201203R2_6

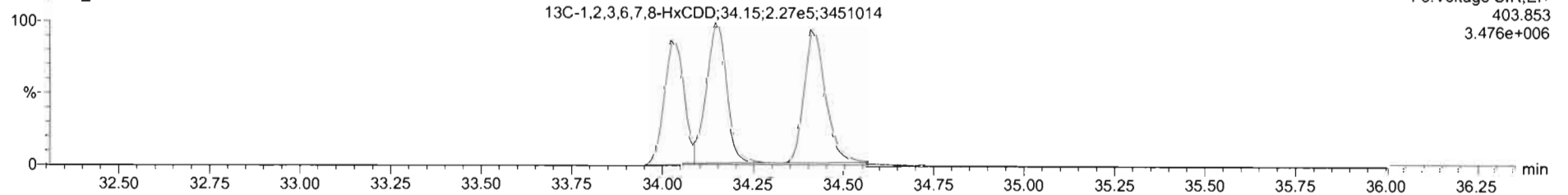


13C-1,2,3,4,7,8-HxCDD

201203R2_6

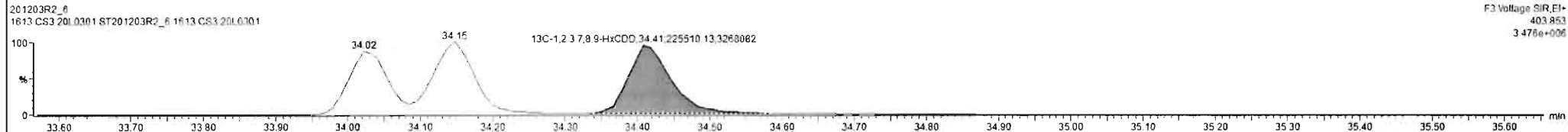
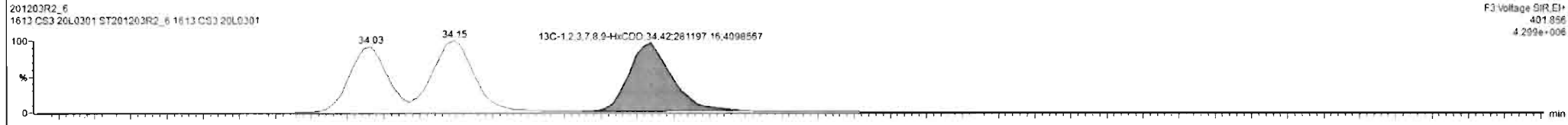


201203R2_6



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	1.0388	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



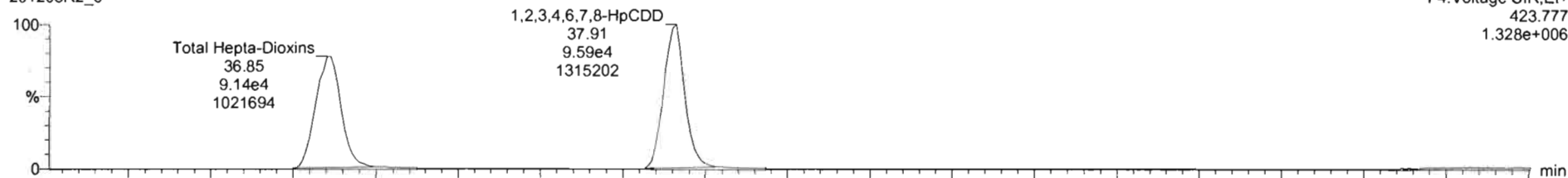
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Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

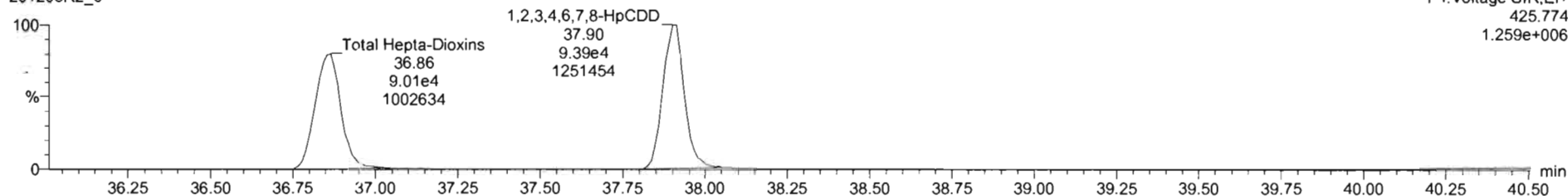
Name: 201203R2_6, Date: 03-Dec-2020, Time: 14:35:05, ID: ST201203R2_6 1613 CS3 20L0301, Description: 1613 CS3 20L0301

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

201203R2_6

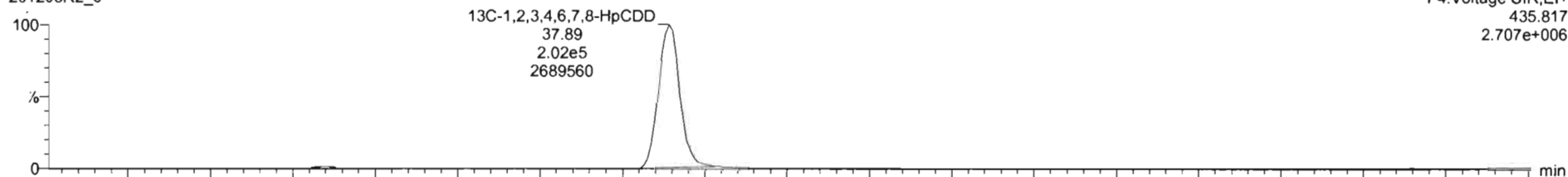


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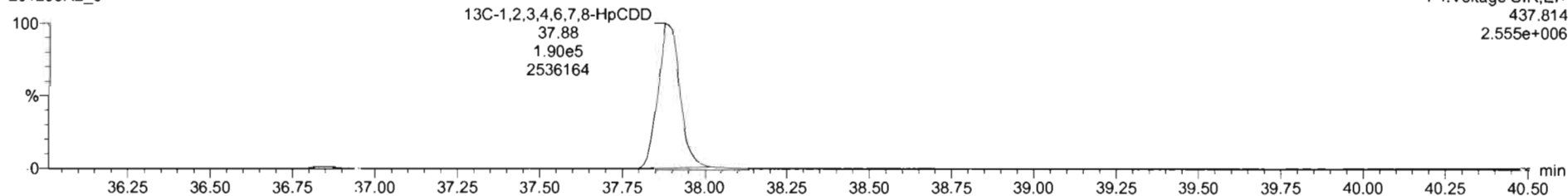


13C-1,2,3,4,6,7,8-HpCDD

201203R2_6



201203R2_6



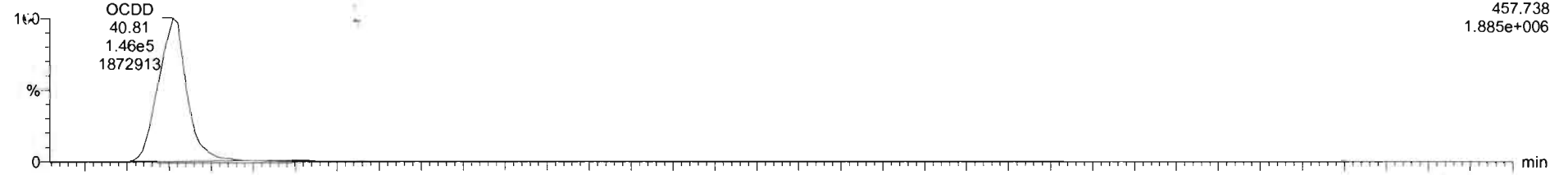
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Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

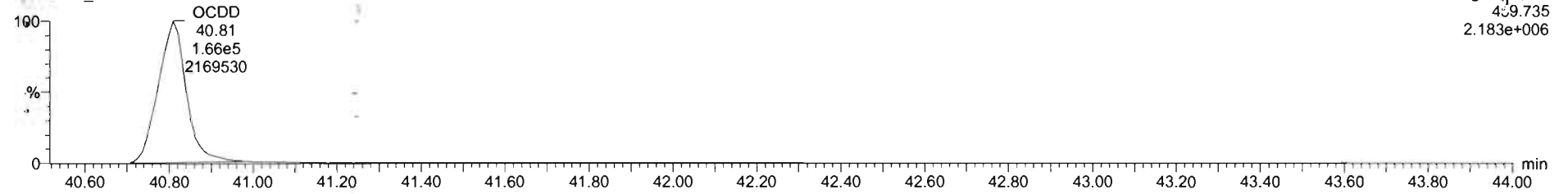
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OCDD

201203R2_6

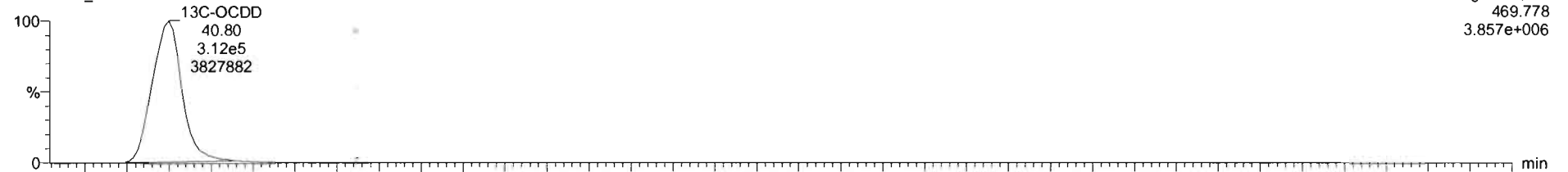


201203R2_6

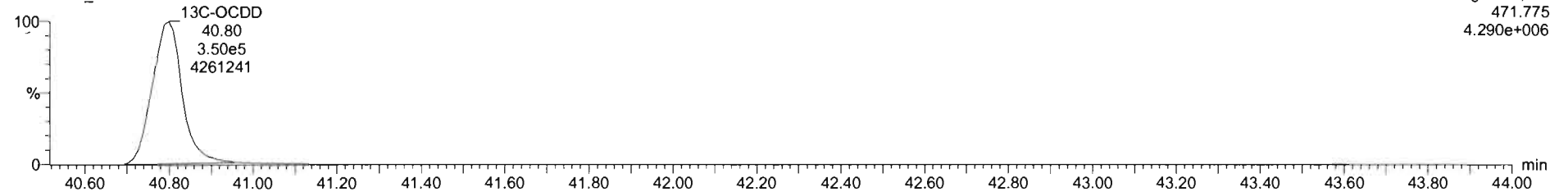


13C-OCDD

201203R2_6



201203R2_6



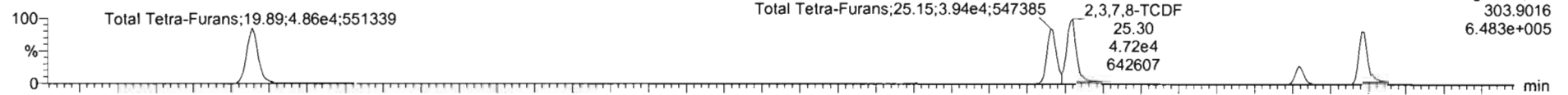
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Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

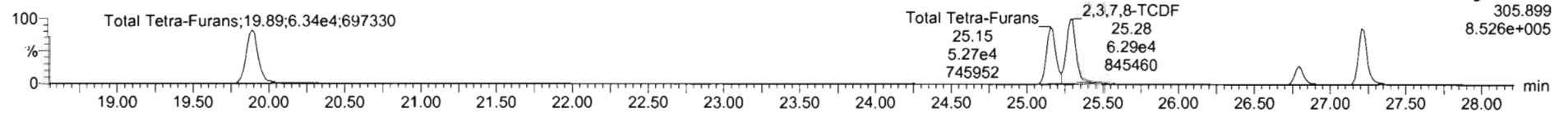
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2,3,7,8-TCDF

201203R2_6

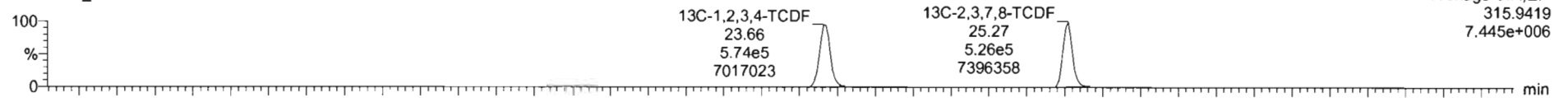


201203R2_6

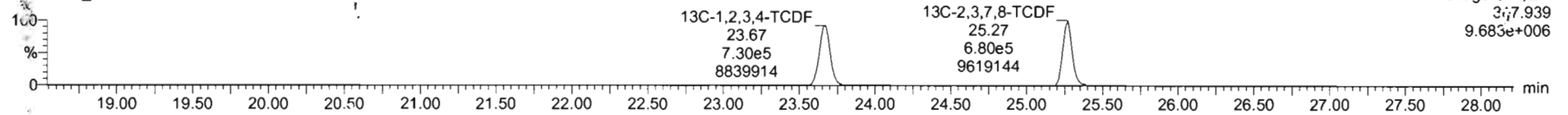


13C-2,3,7,8-TCDF

201203R2_6

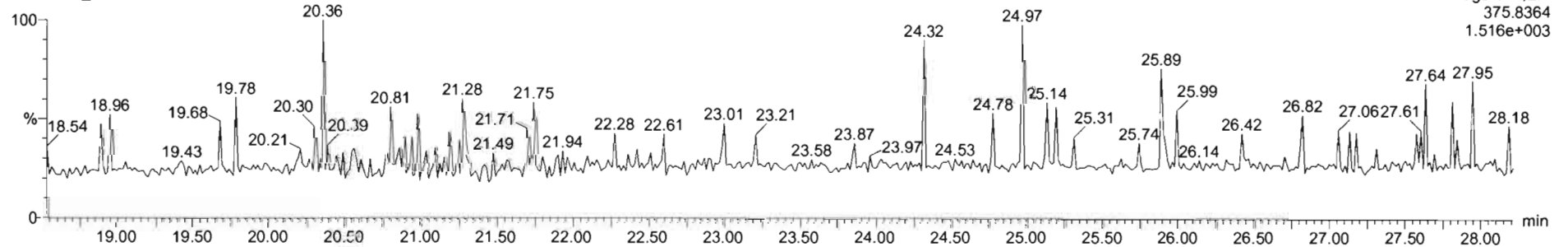


201203R2_6



DPE1

201203R2_6



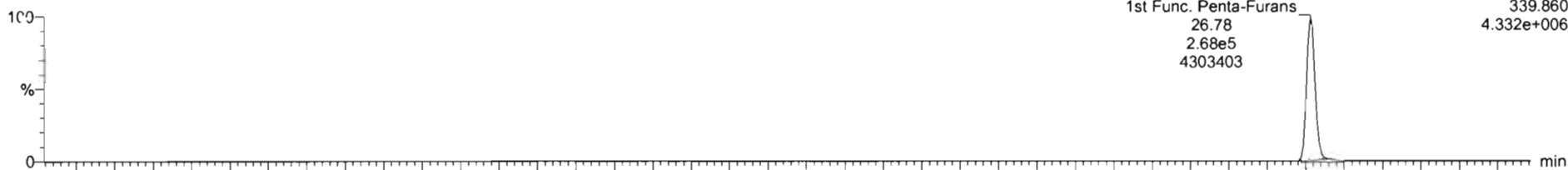
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Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

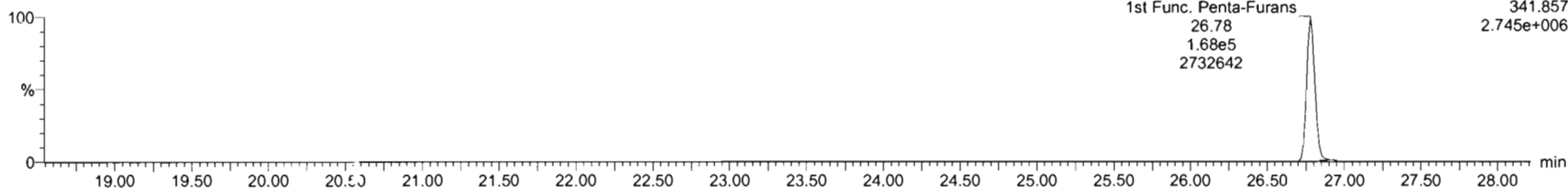
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1st Func. Penta-Furans

201203R2_6

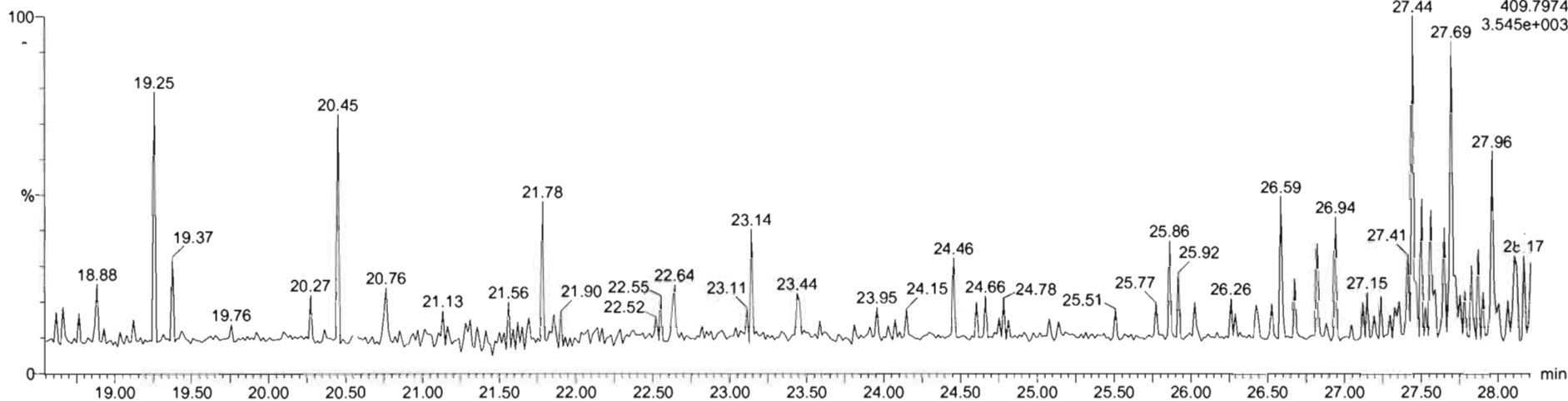


201203R2_6



DPE6

201203R2_6

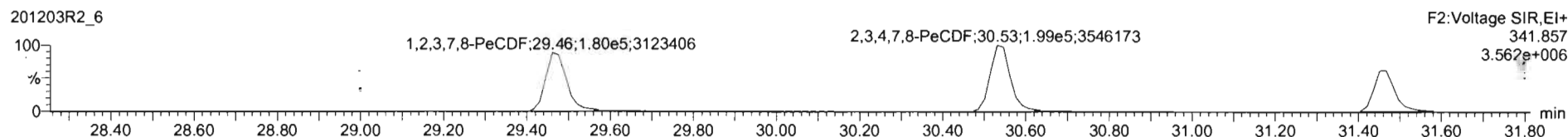


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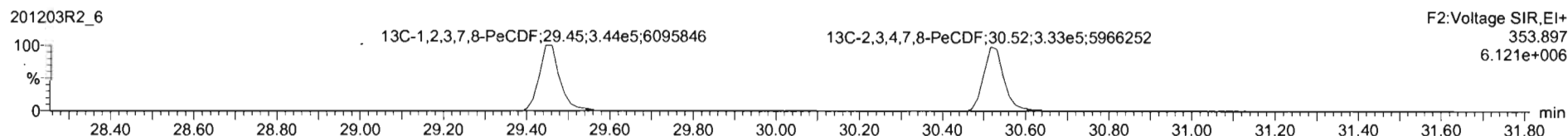
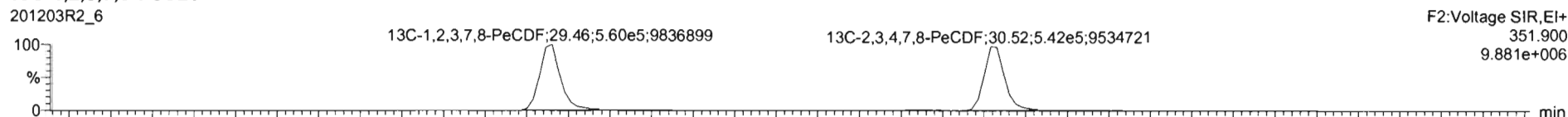
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_6, Date: 03-Dec-2020, Time: 14:35:05, ID: ST201203R2_6 1613 CS3 20L0301, Description: 1613 CS3 20L0301

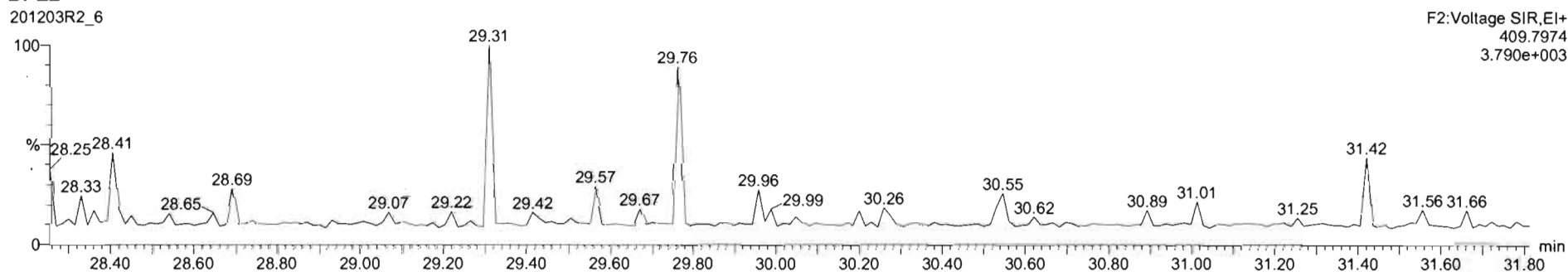
1,2,3,7,8-PeCDF



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



DPE2



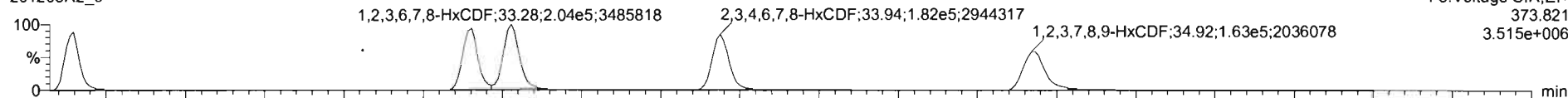
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Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

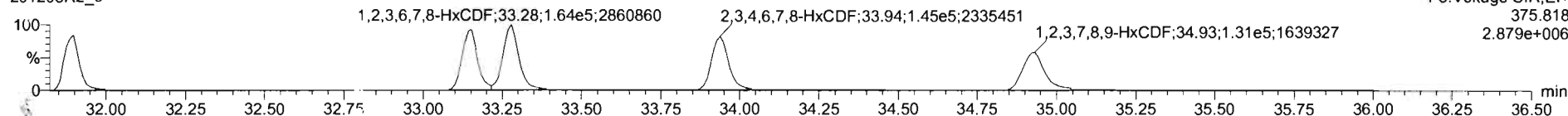
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1,2,3,4,7,8-HxCDF

201203R2_6

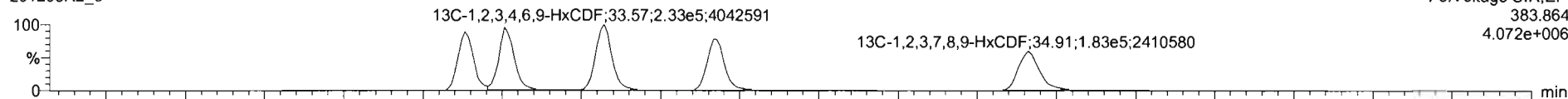


201203R2_6

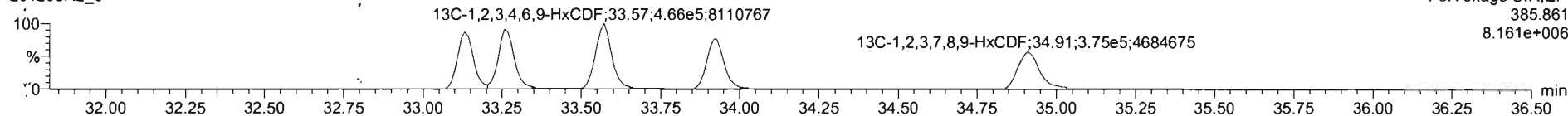


13C-1,2,3,4,7,8-HxCDF

201203R2_6

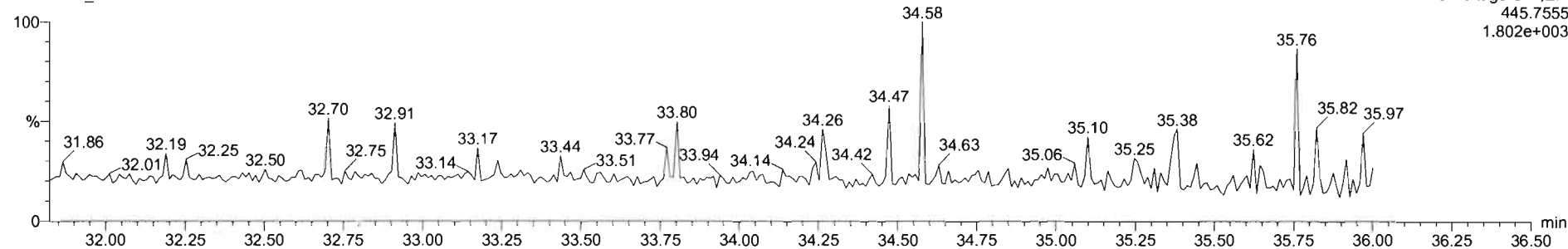


201203R2_6



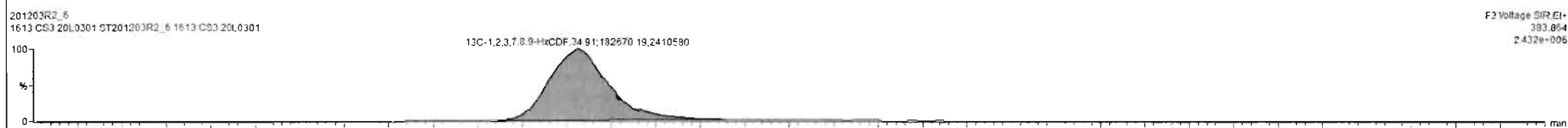
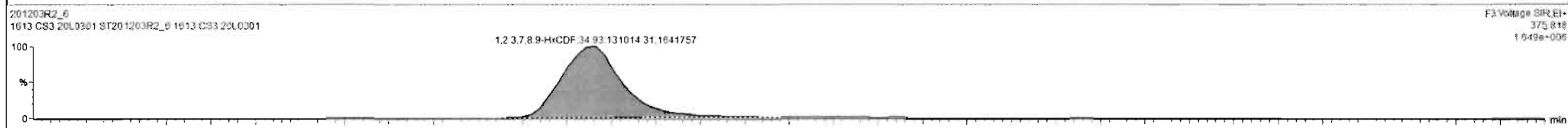
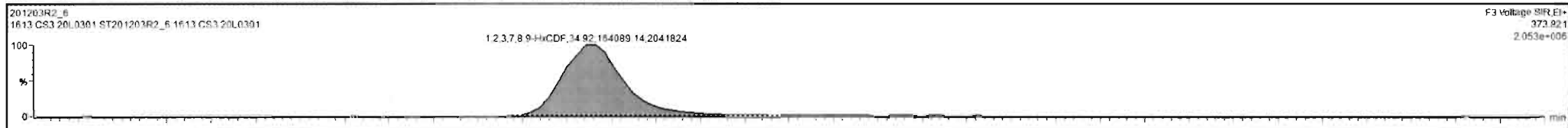
DPE3

201203R2_6



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	55.8	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	52.8	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	10.8	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

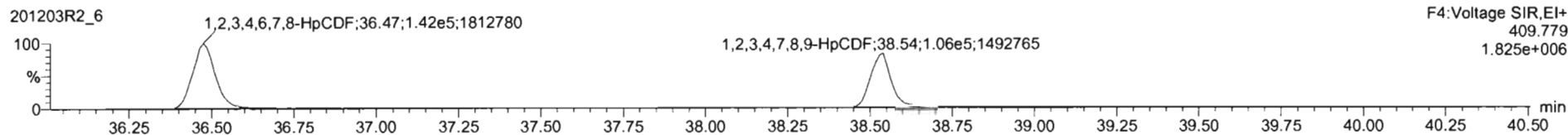
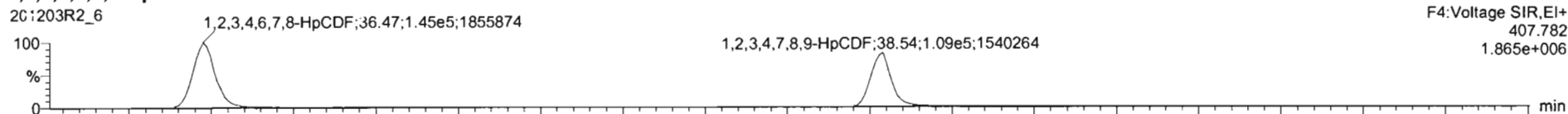


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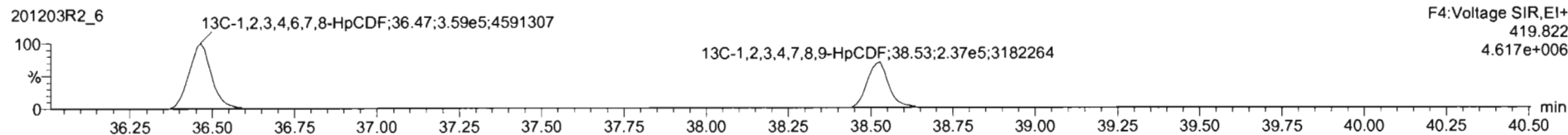
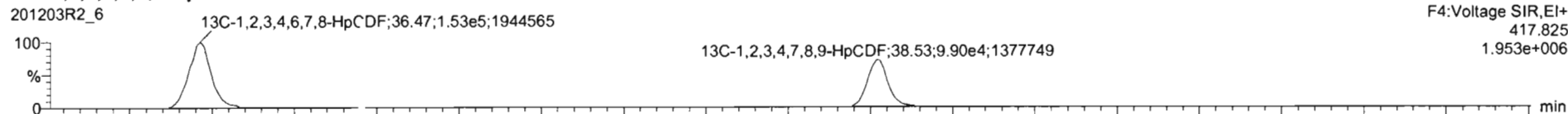
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_6, Date: 03-Dec-2020, Time: 14:35:05, ID: ST201203R2_6 1613 CS3 20L0301, Description: 1613 CS3 20L0301

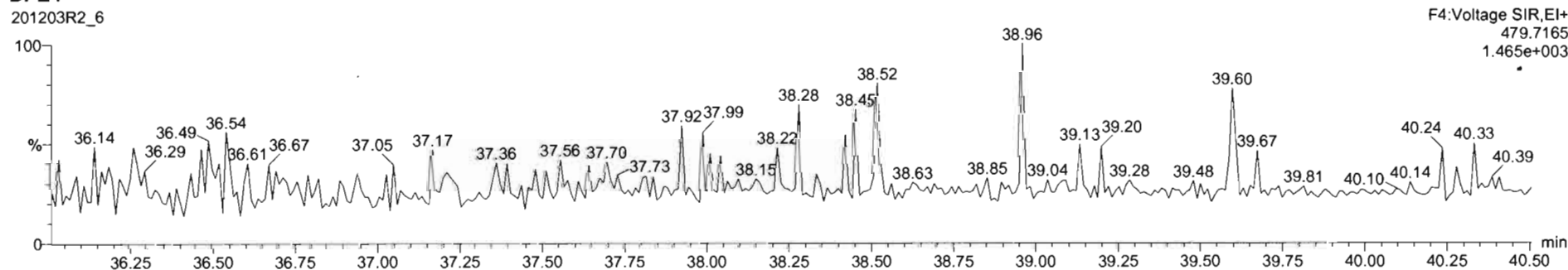
1,2,3,4,6,7,8-HpCDF



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



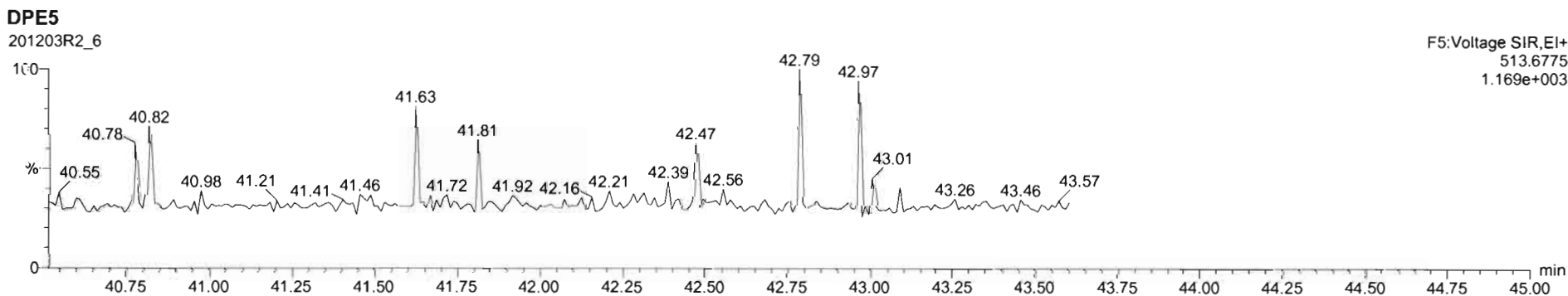
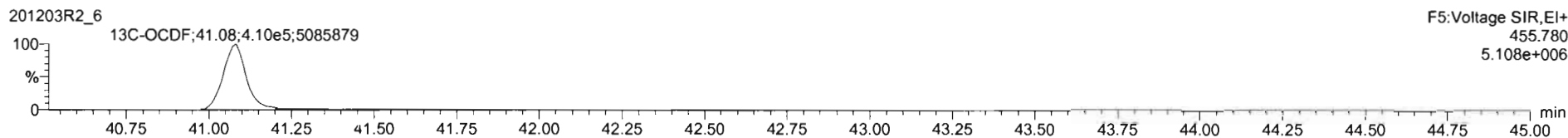
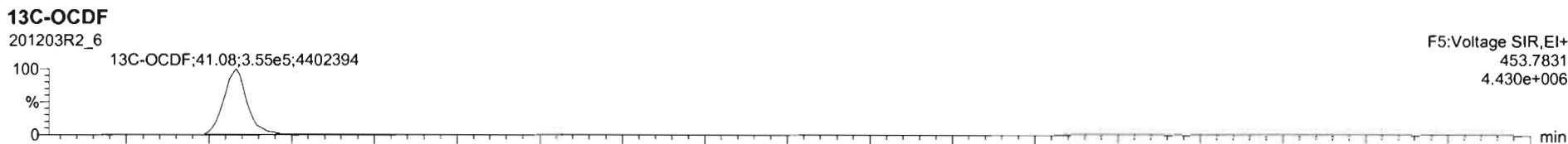
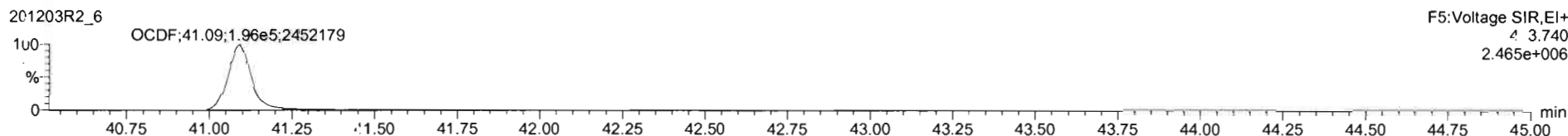
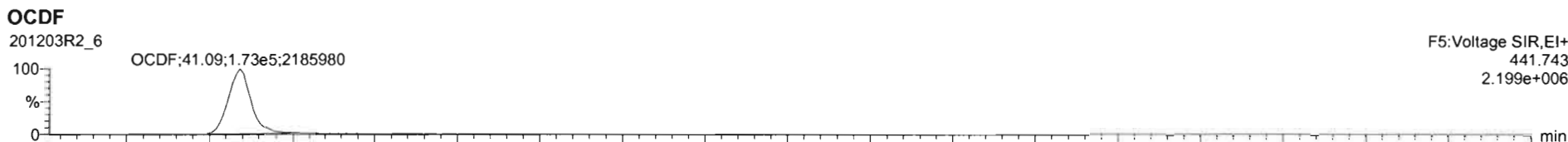
DPE4



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

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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

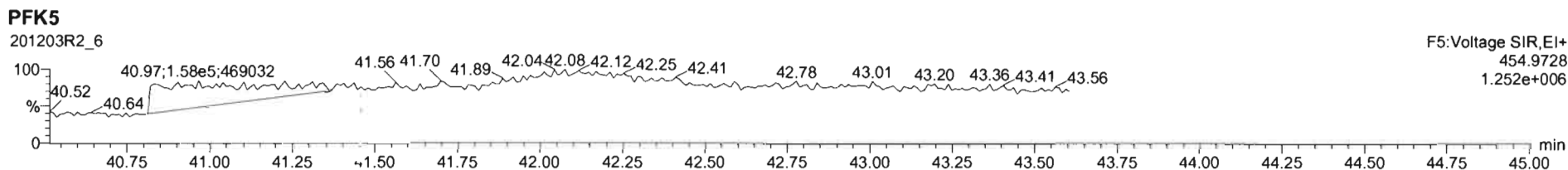
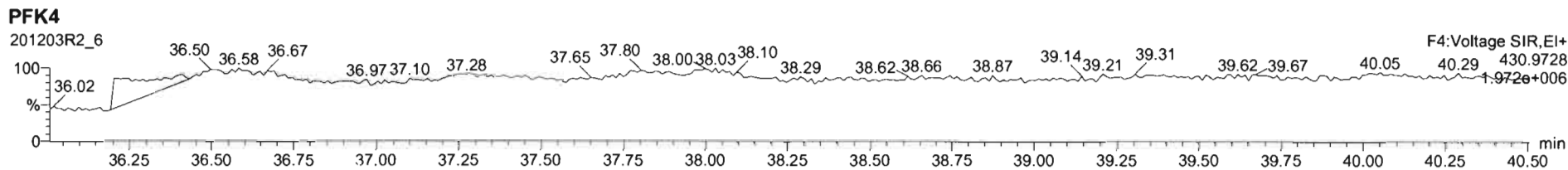
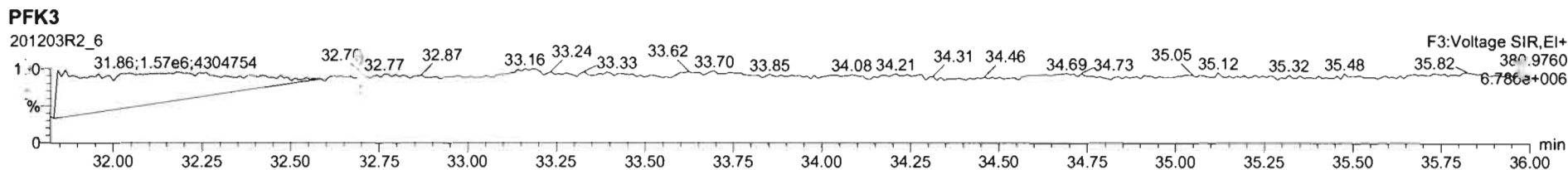
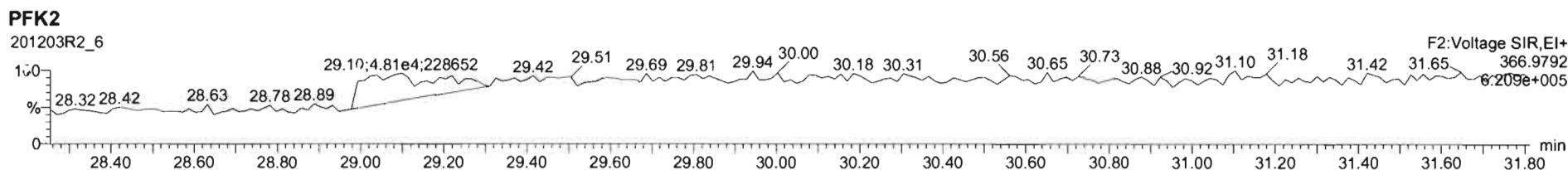
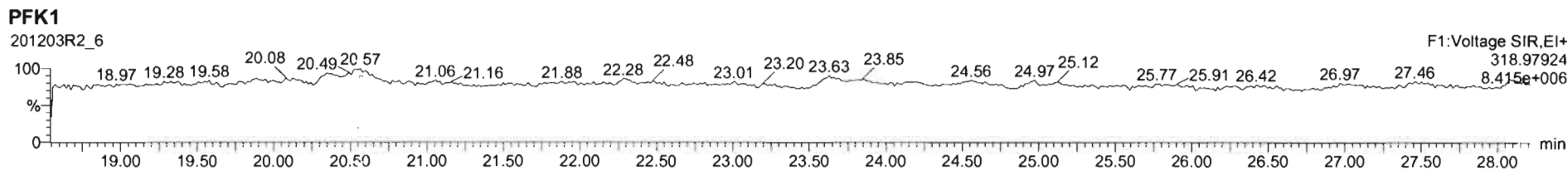
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Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

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

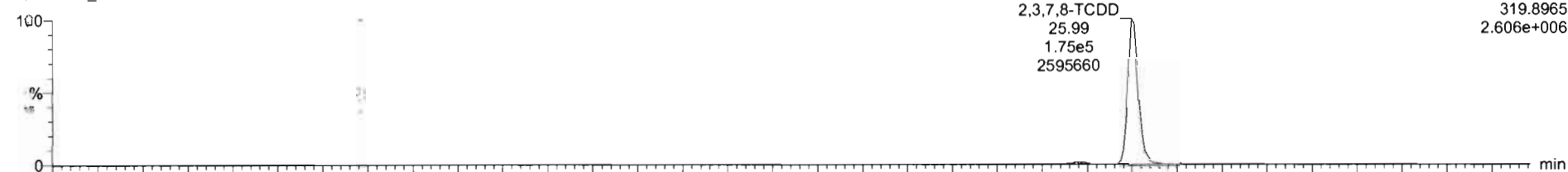
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

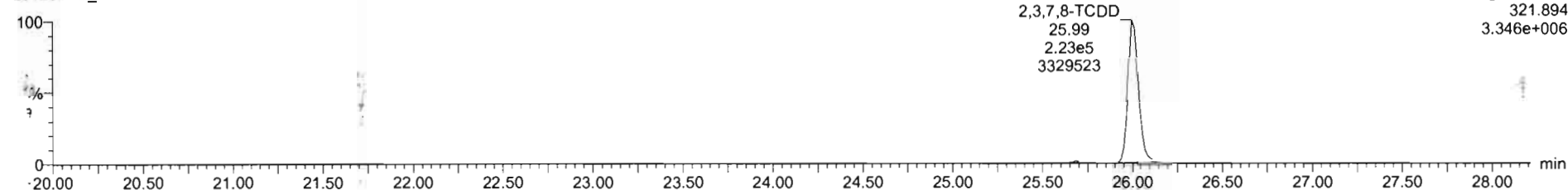
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2,3,7,8-TCDD

201203R2_4

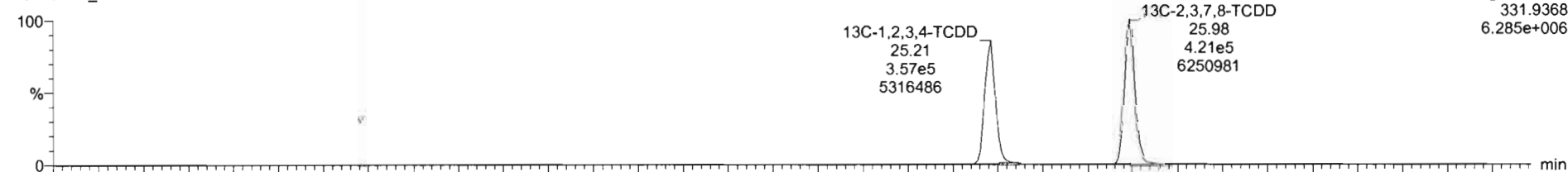


201203R2_4

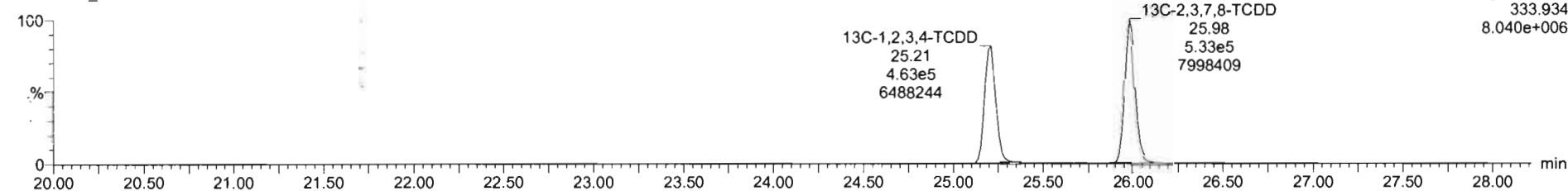


13C-2,3,7,8-TCDD

201203R2_4



201203R2_4



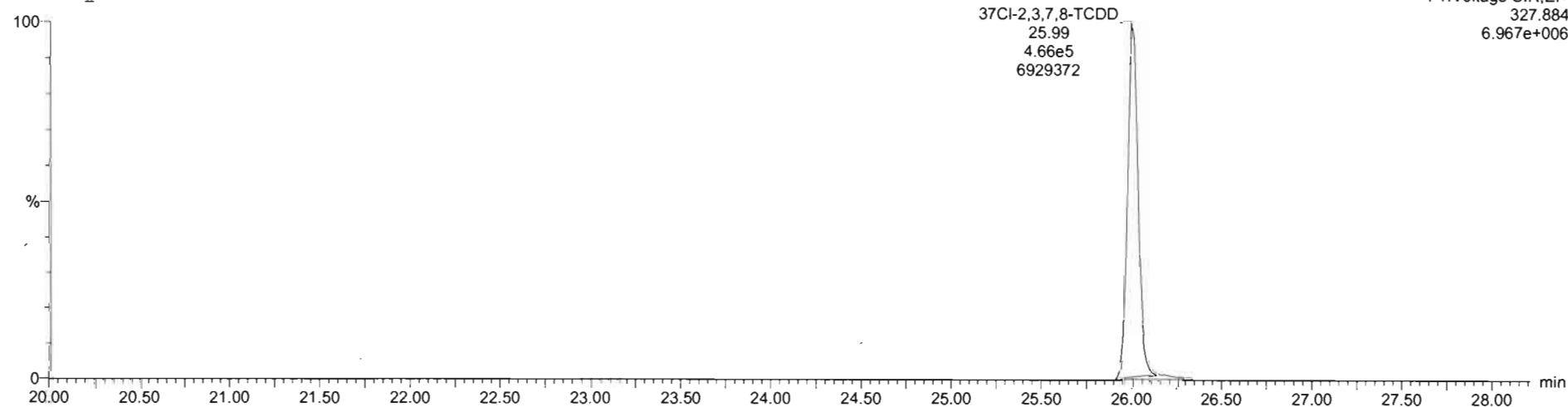
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_4, Date: 03-Dec-2020, Time: 13:00:37, ID: ST201203R2_4 1613 CS4 20L0302, Description: 1613 CS4 20L0302

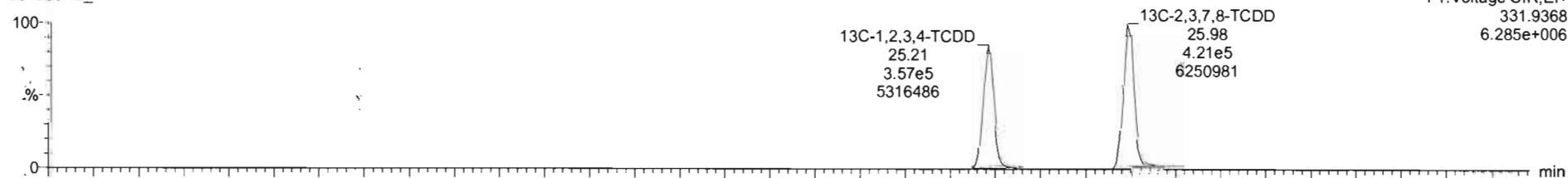
37Cl-2,3,7,8-TCDD

201203R2_4

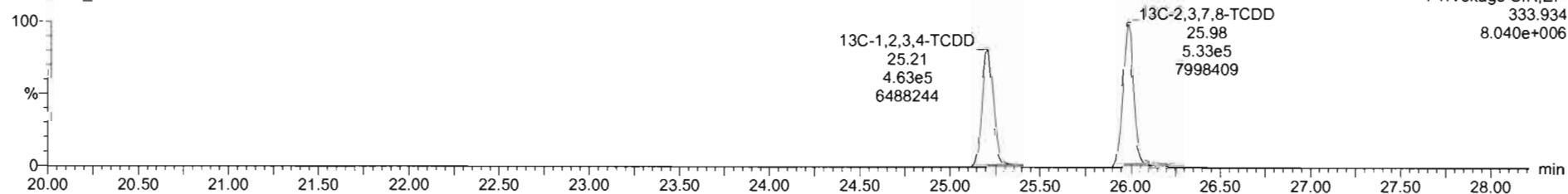


13C-1,2,3,4-TCDD

201203R2_4



201203R2_4



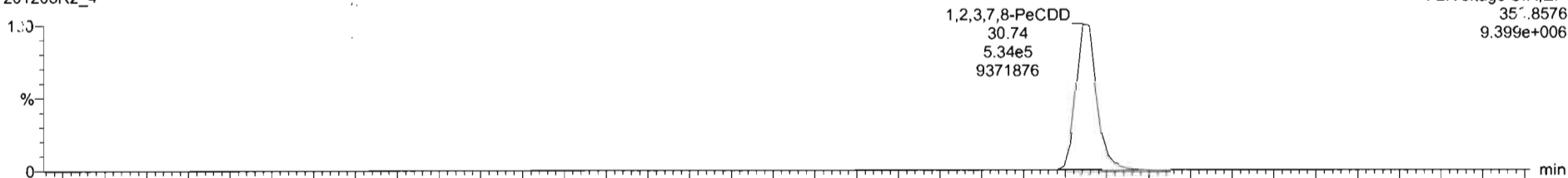
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

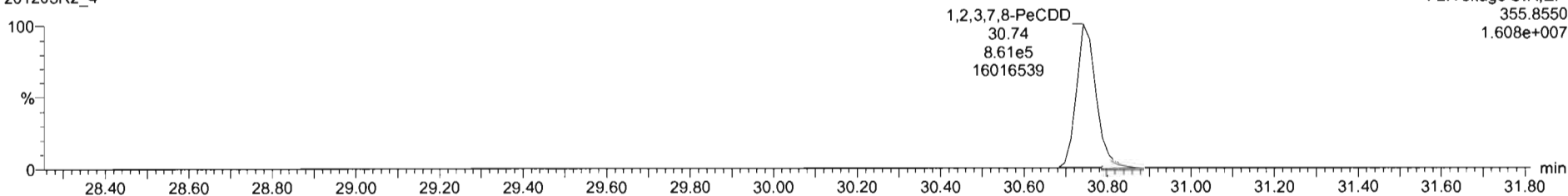
Name: 201203R2_4, Date: 03-Dec-2020, Time: 13:00:37, ID: ST201203R2_4 1613 CS4 20L0302, Description: 1613 CS4 20L0302

1,2,3,7,8-PeCDD

201203R2_4

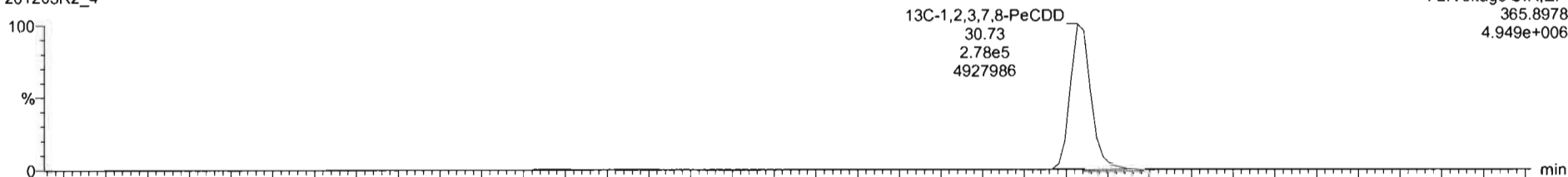


201203R2_4

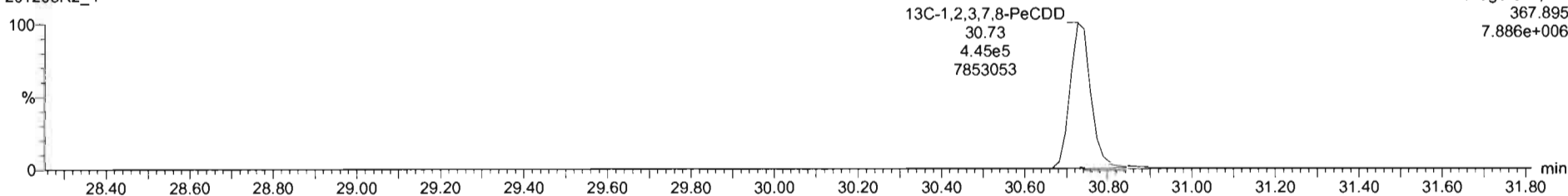


13C-1,2,3,7,8-PeCDD

201203R2_4



201203R2_4



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

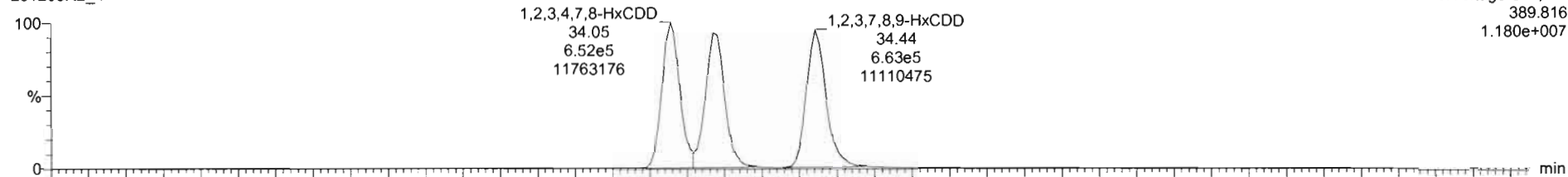
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_4, Date: 03-Dec-2020, Time: 13:00:37, ID: ST201203R2_4 1613 CS4 20L0302, Description: 1613 CS4 20L0302

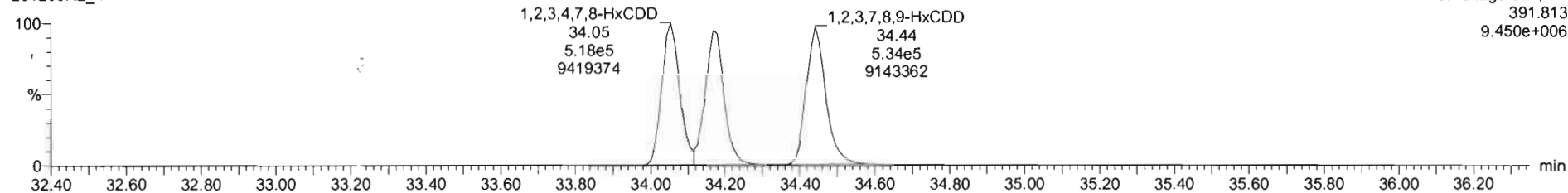
1,2,3,4,7,8-HxCDD

201203R2_4



F3:Voltage SIR,EI+
389.816
1.180e+007

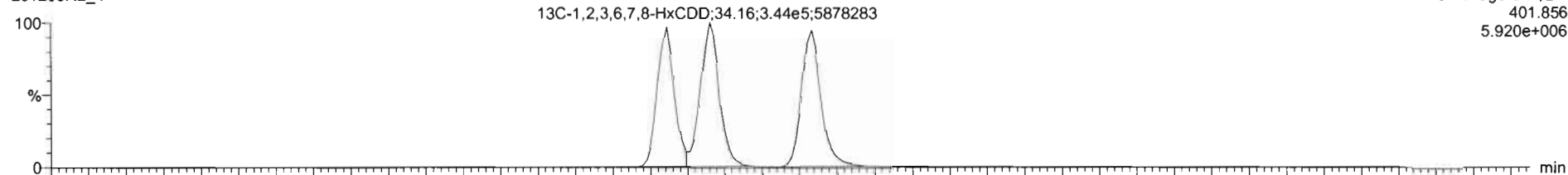
201203R2_4



F3:Voltage SIR,EI+
391.813
9.450e+006

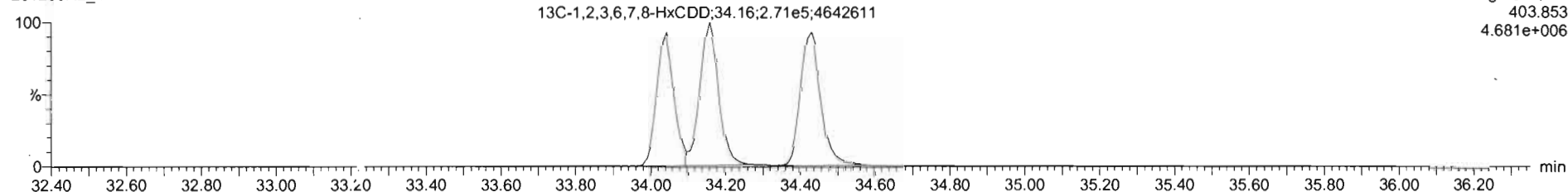
13C-1,2,3,4,7,8-HxCDD

201203R2_4



F3:Voltage SIR,EI+
401.856
5.920e+006

201203R2_4



F3:Voltage SIR,EI+
403.853
4.681e+006

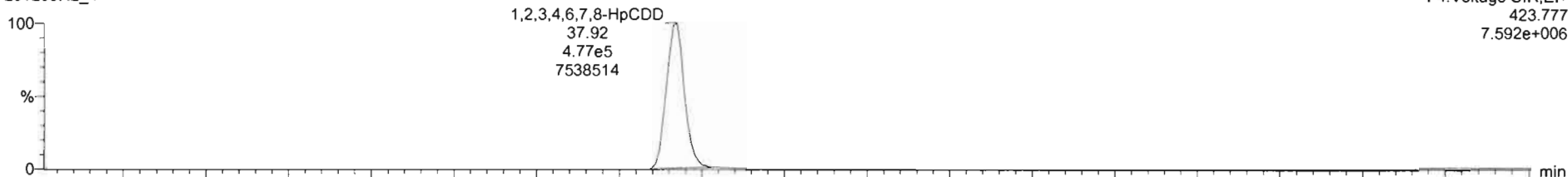
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

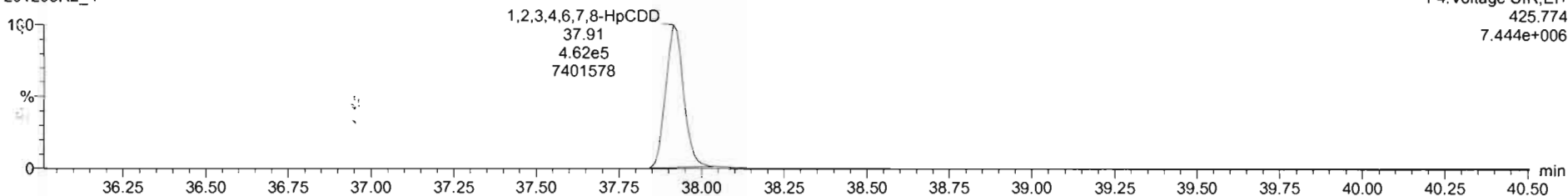
Name: 201203R2_4, Date: 03-Dec-2020, Time: 13:00:37, ID: ST201203R2_4 1613 CS4 20L0302, Description: 1613 CS4 20L0302

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

201203R2_4

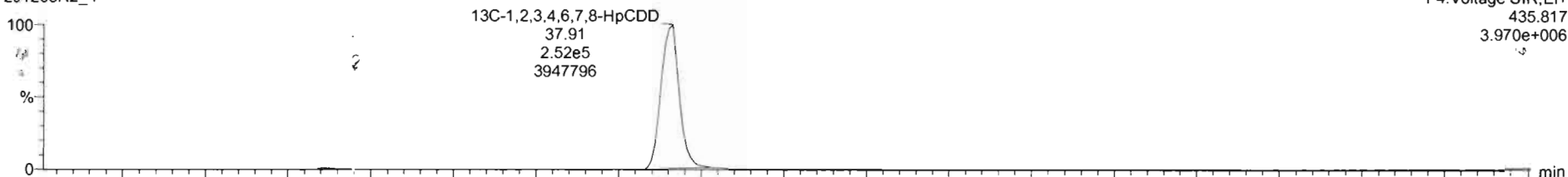


201203R2_4

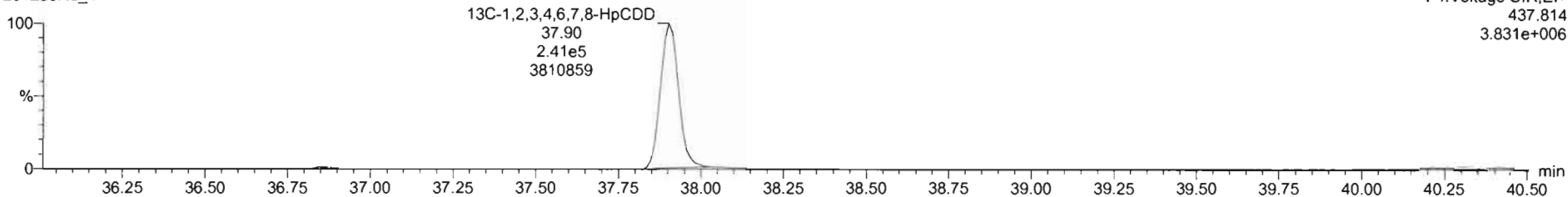


13C-1,2,3,4,6,7,8-HpCDD

201203R2_4



201203R2_4

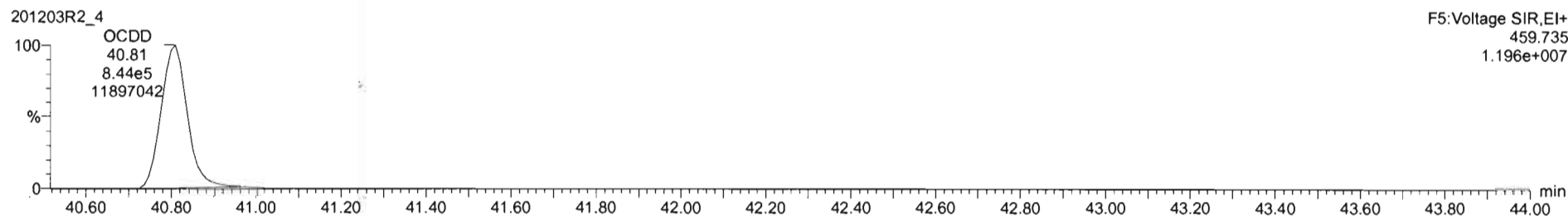
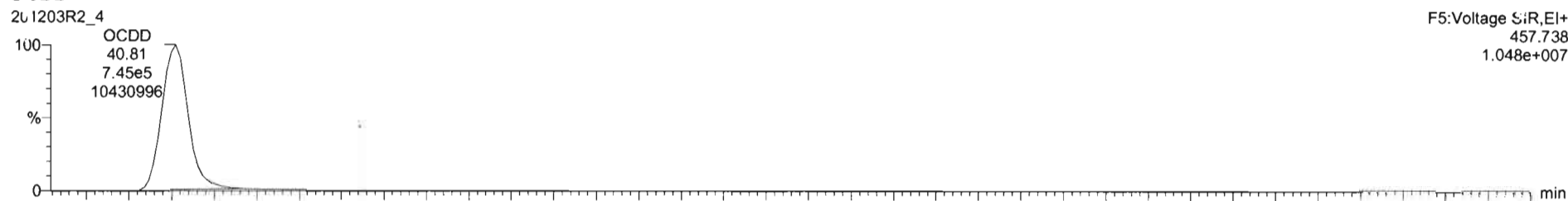


Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

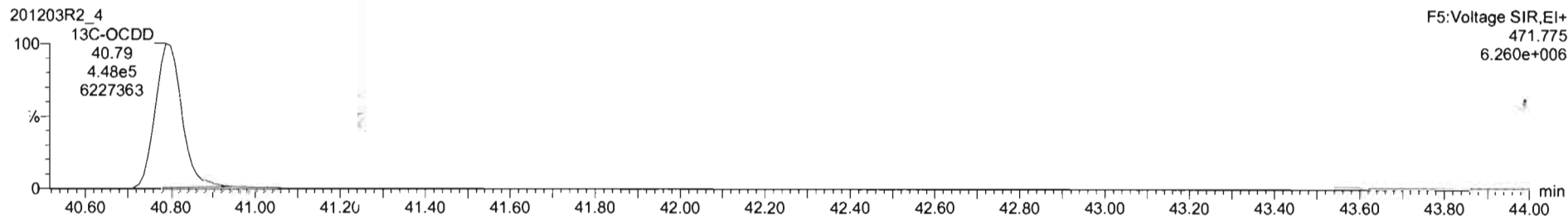
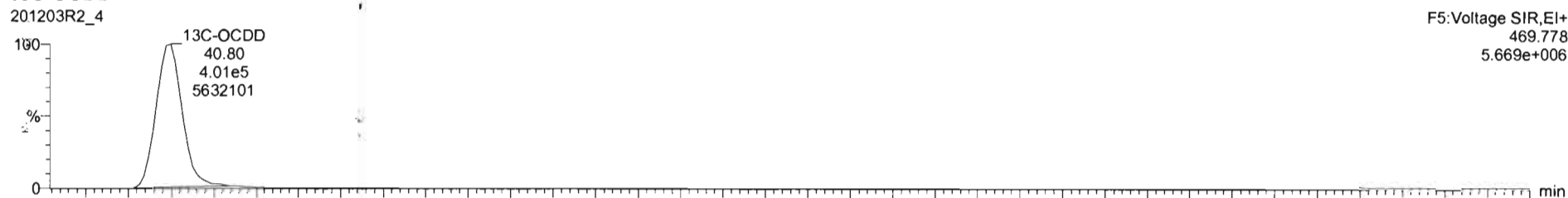
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_4, Date: 03-Dec-2020, Time: 13:00:37, ID: ST201203R2_4 1613 CS4 20L0302, Description: 1613 CS4 20L0302

OCDD



13C-OCDD



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

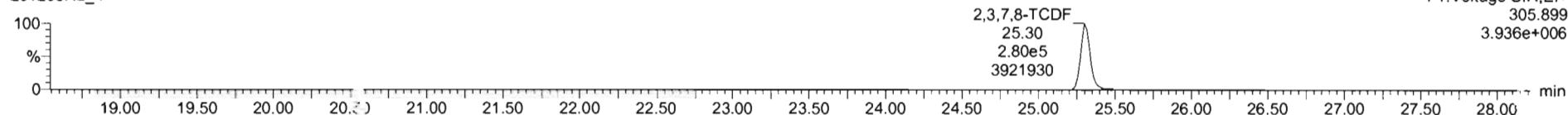
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2,3,7,8-TCDF

201203R2_4

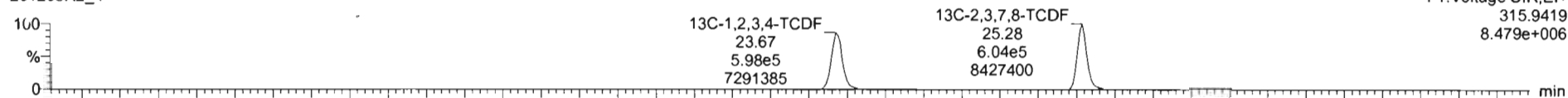


201203R2_4

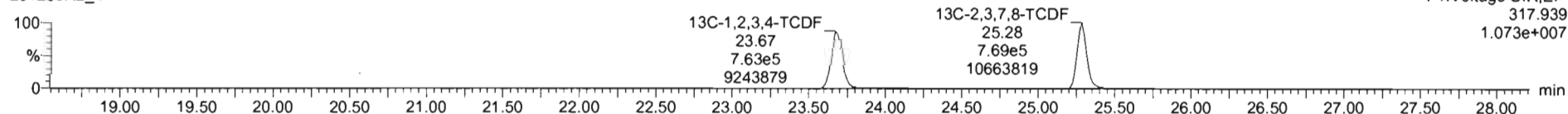


13C-2,3,7,8-TCDF

201203R2_4

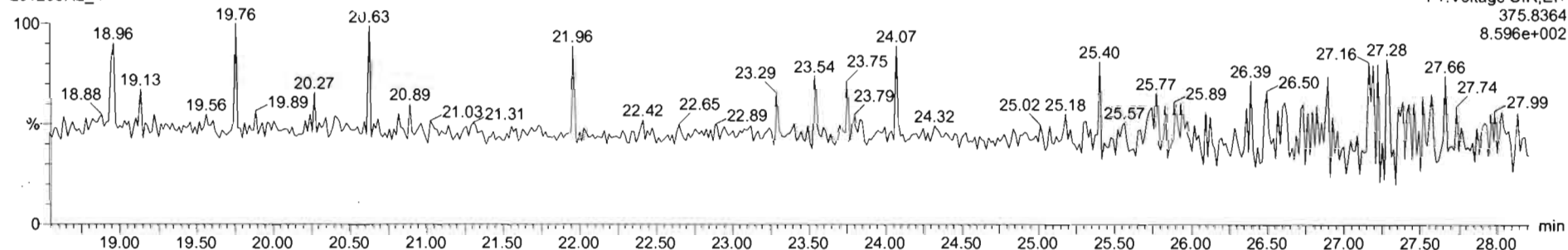


201203R2_4



DPE1

201203R2_4

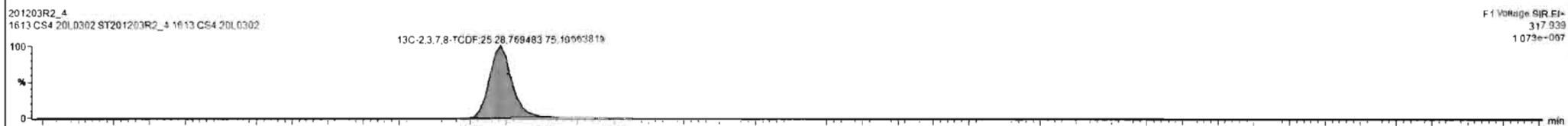
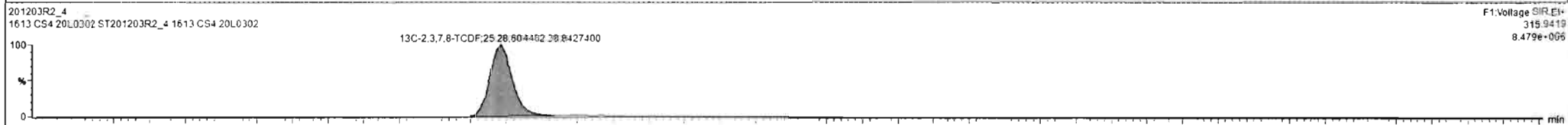
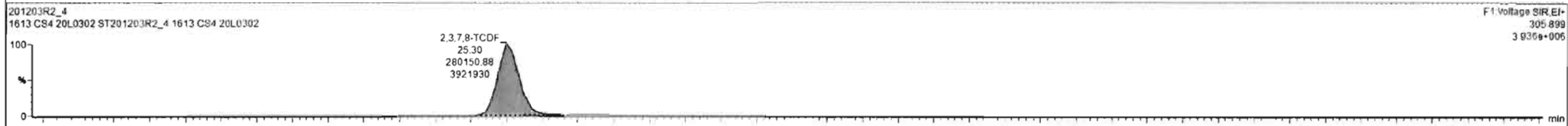
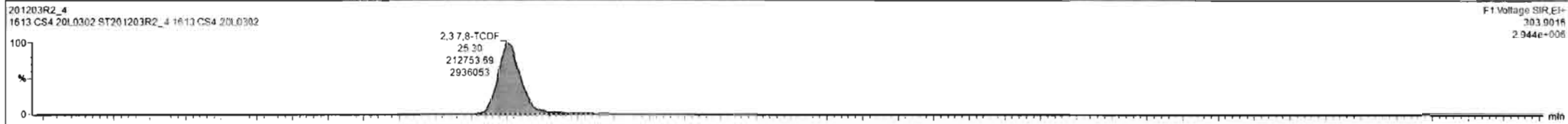


TargetLynx - 201203R2_CRV.qld - [Chromatogram]

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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	1.001	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

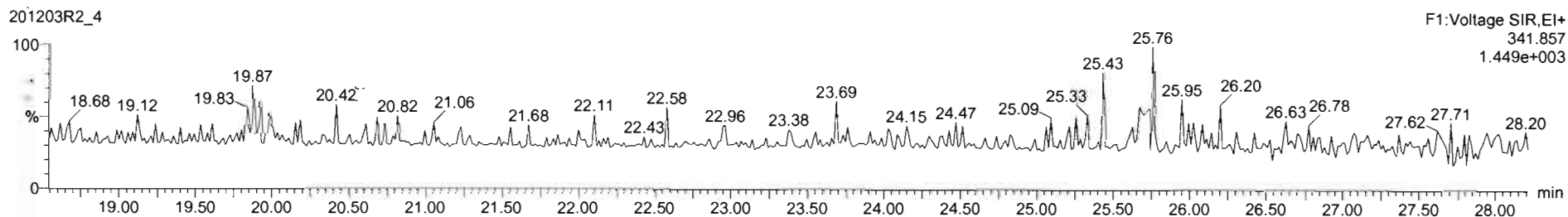
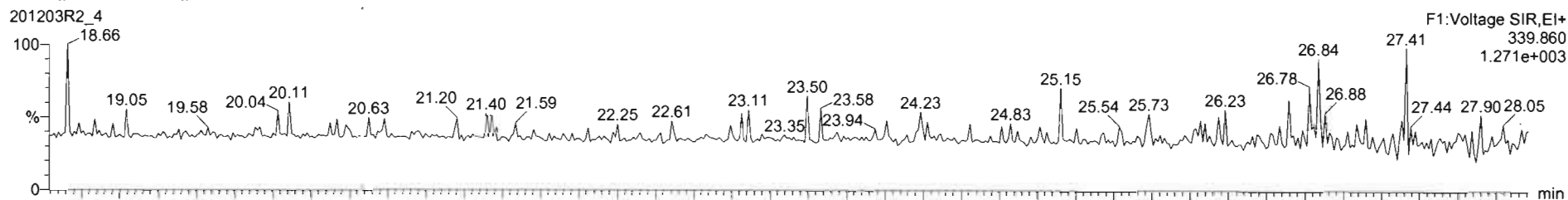
Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

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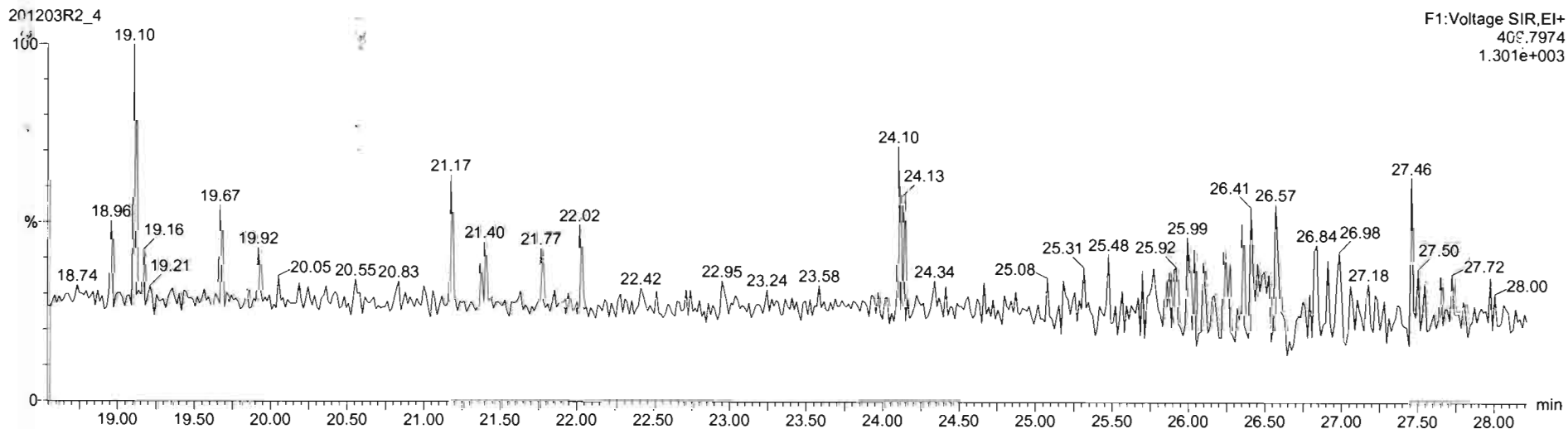
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_4, Date: 03-Dec-2020, Time: 13:00:37, ID: ST201203R2_4 1613 CS4 20L0302, Description: 1613 CS4 20L0302

1st Func. Penta-Furans



DPE6



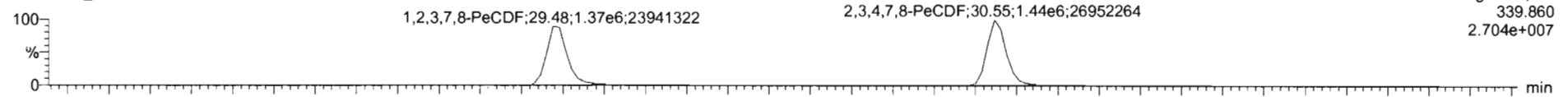
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Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_4, Date: 03-Dec-2020, Time: 13:00:37, ID: ST201203R2_4 1613 CS4 20L0302, Description: 1613 CS4 20L0302

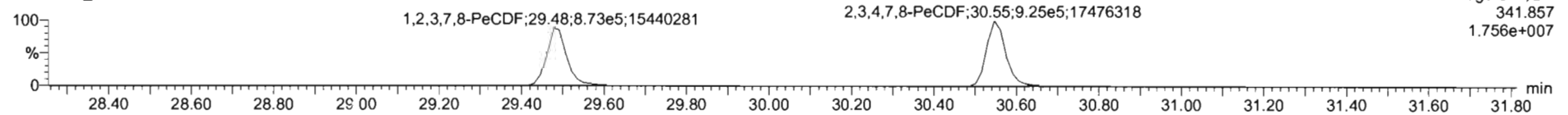
1,2,3,7,8-PeCDF

201203R2_4



F2:Voltage SIR,EI+
339.860
2.704e+007

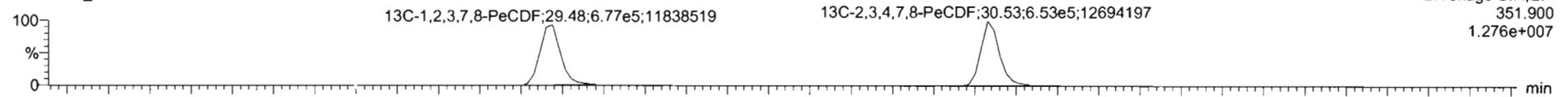
201203R2_4



F2:Voltage SIR,EI+
341.857
1.756e+007

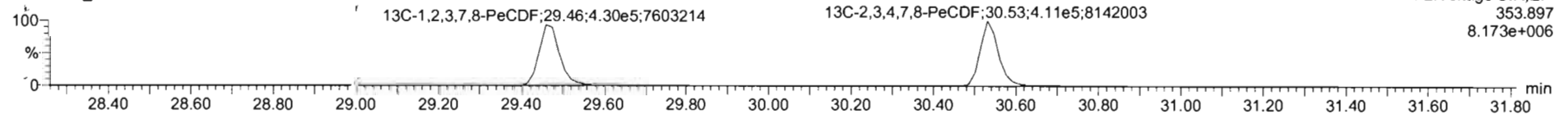
13C-1,2,3,7,8-PeCDF

201203R2_4



F2:Voltage SIR,EI+
351.900
1.276e+007

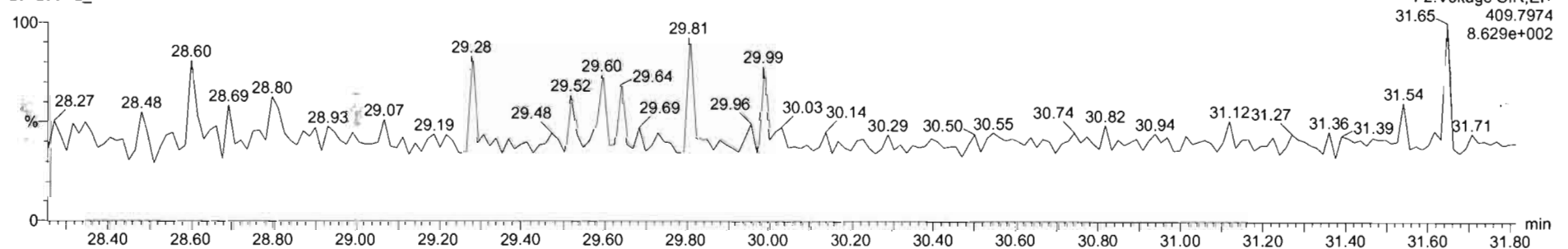
201203R2_4



F2:Voltage SIR,EI+
353.897
8.173e+006

DPE2

201203R2_4



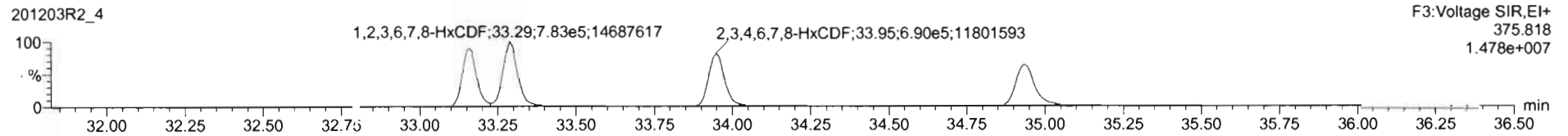
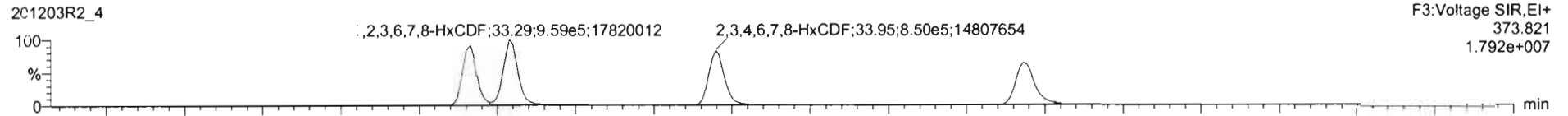
F2:Voltage SIR,EI+
409.7974
8.629e+002

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

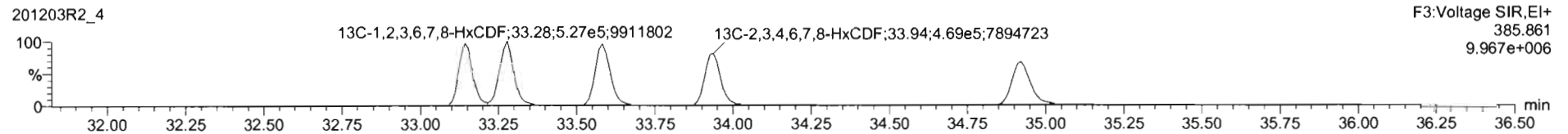
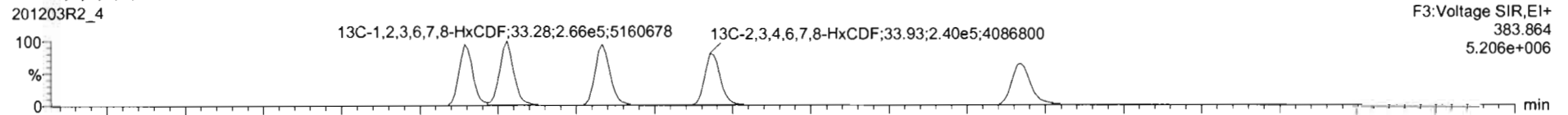
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_4, Date: 03-Dec-2020, Time: 13:00:37, ID: ST201203R2_4 1613 CS4 20L0302, Description: 1613 CS4 20L0302

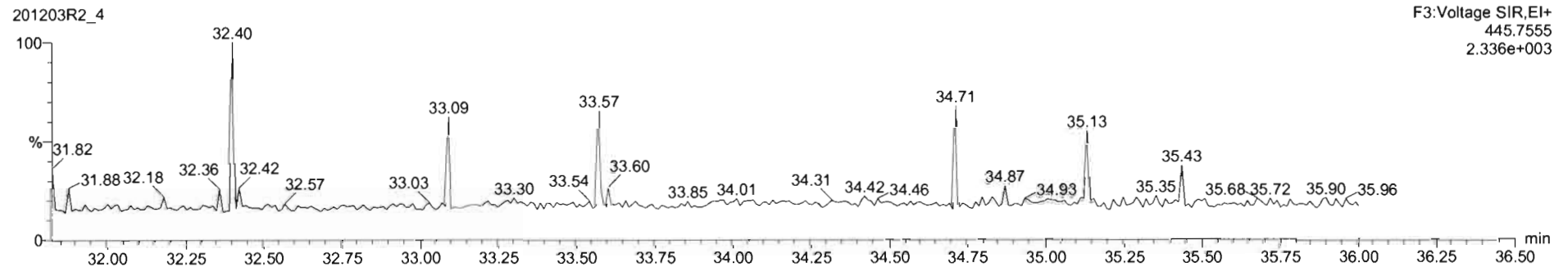
1,2,3,4,7,8-HxCDF



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

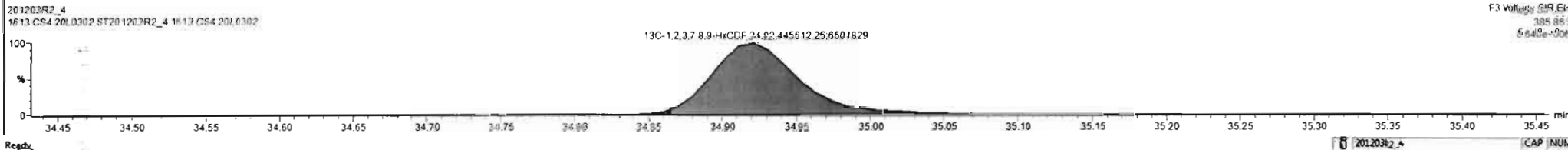
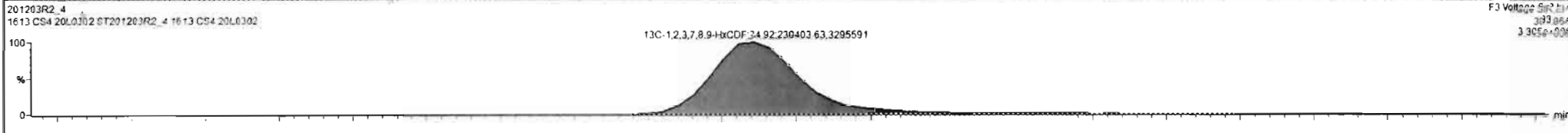
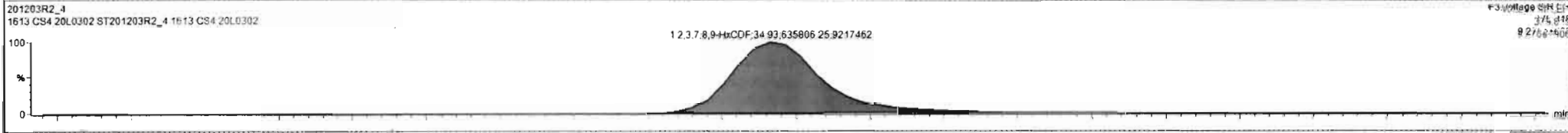
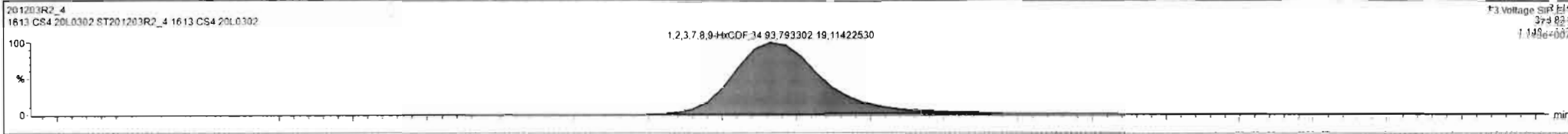


DPE3



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	1,2,3,7,8,9-HxCDF	1.43e6	6.78e5	1.24	1.25	NO	0.9888	34.92	34.93	NO	1.000	1.000	214	107	NO

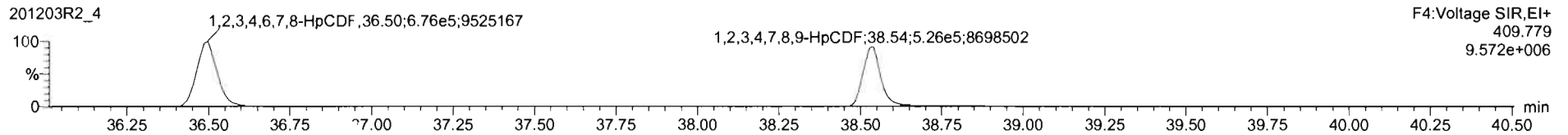
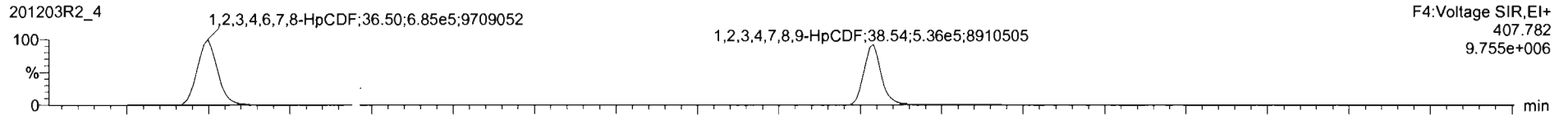


Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

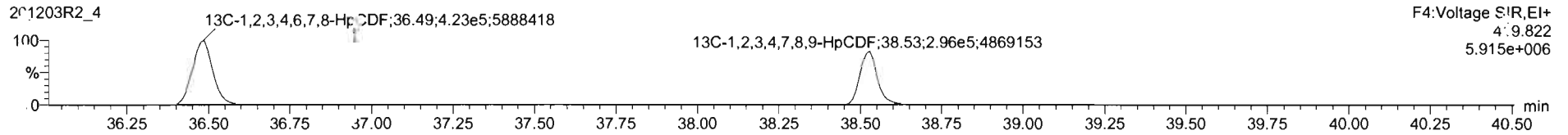
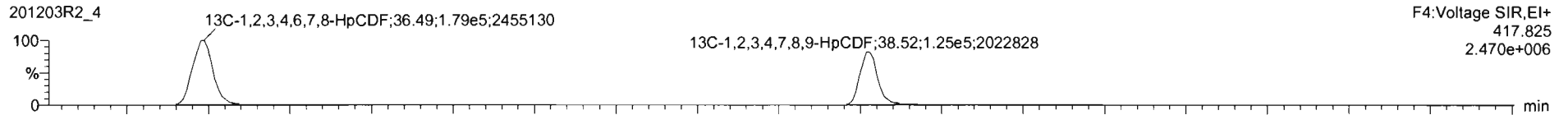
Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_4, Date: 03-Dec-2020, Time: 13:00:37, ID: ST201203R2_4 1613 CS4 20L0302, Description: 1613 CS4 20L0302

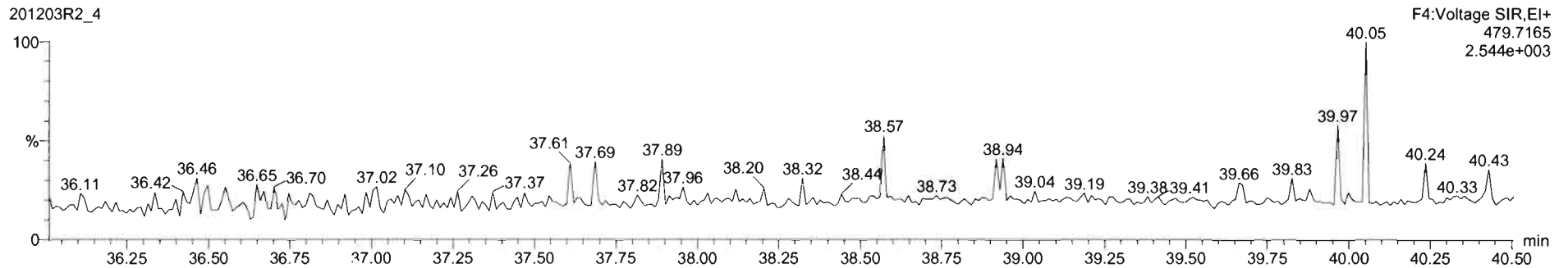
1,2,3,4,6,7,8-HpCDF



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



DPE4

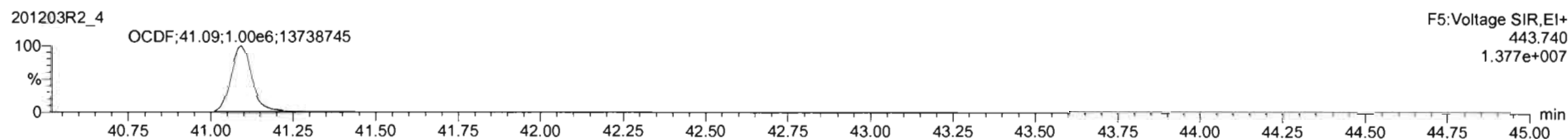
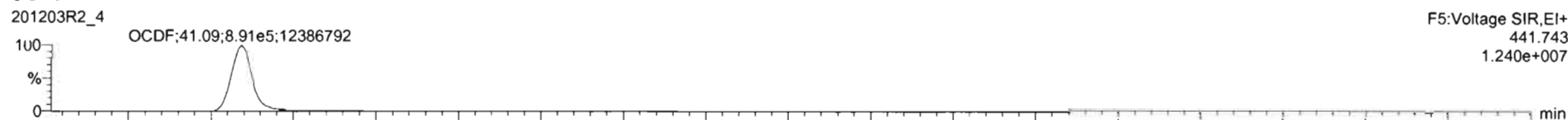


Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

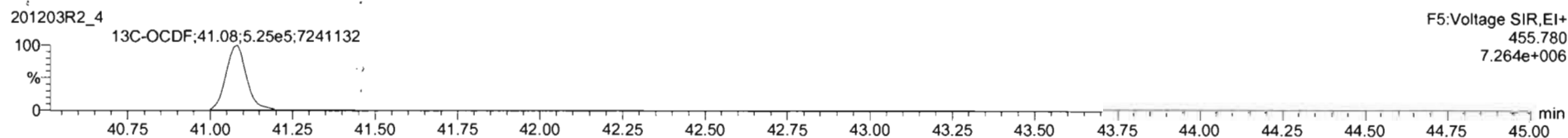
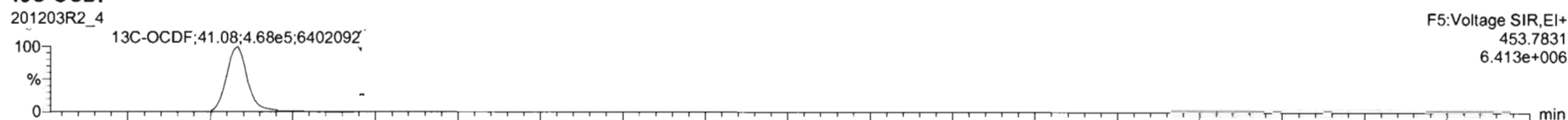
Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_4, Date: 03-Dec-2020, Time: 13:00:37, ID: ST201203R2_4 1613 CS4 20L0302, Description: 1613 CS4 20L0302

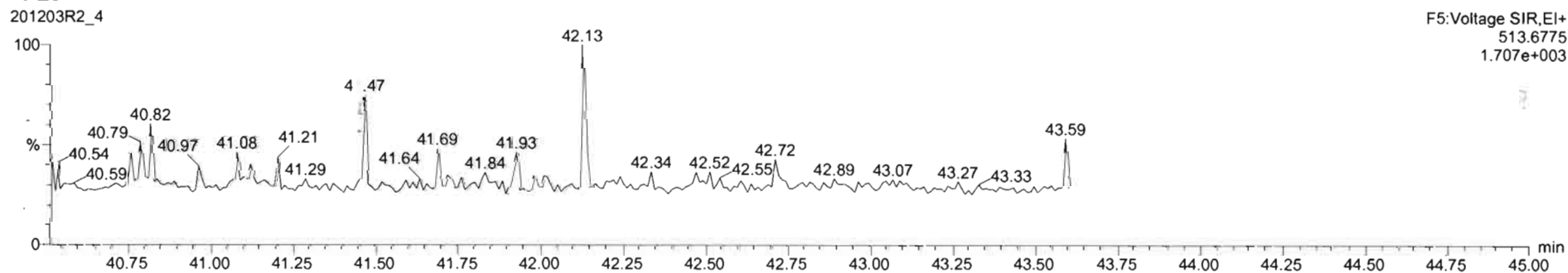
OCDF



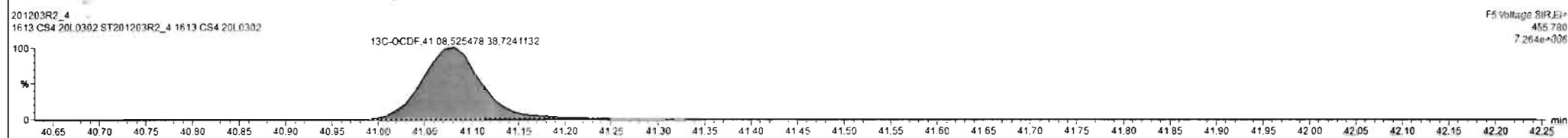
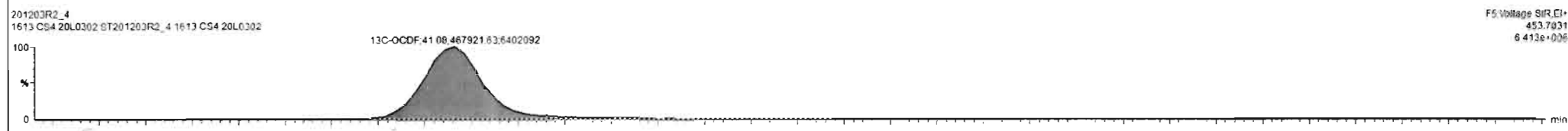
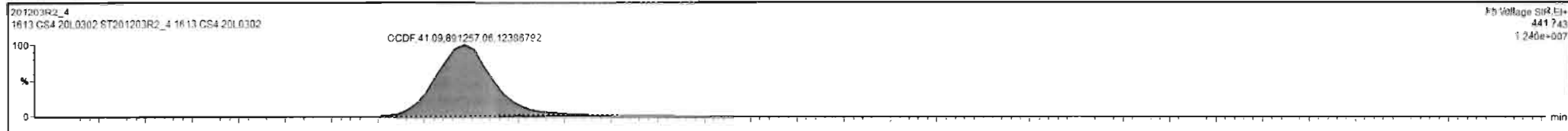
13C-OCDF



DPE5



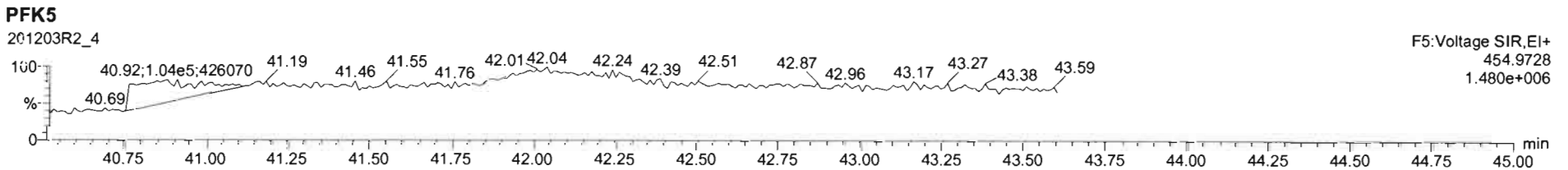
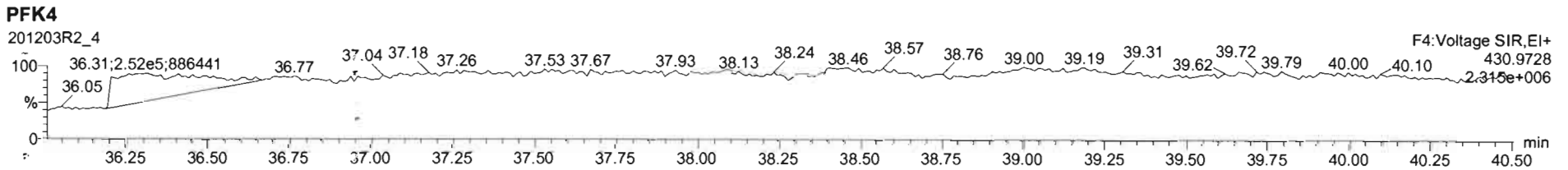
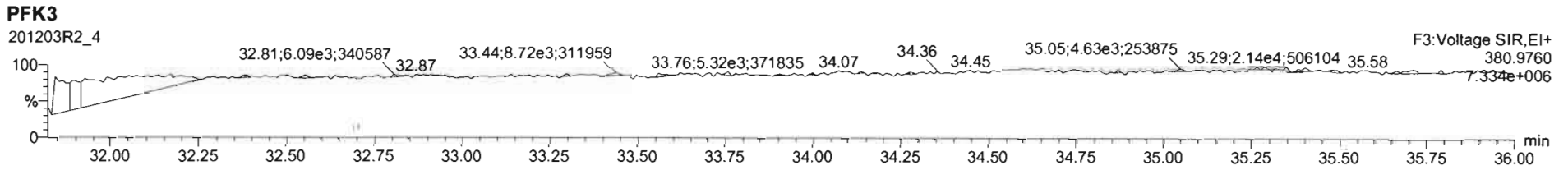
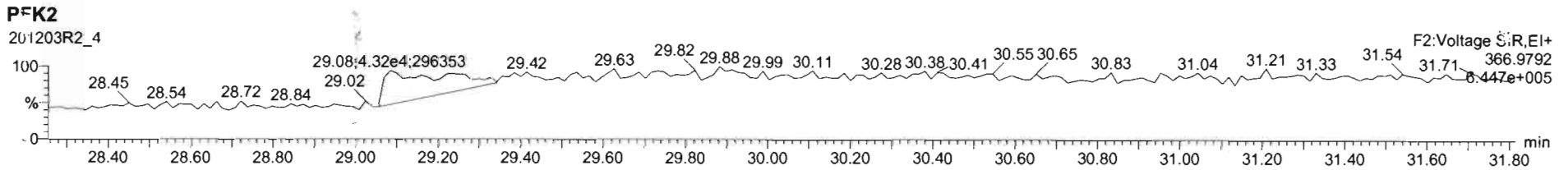
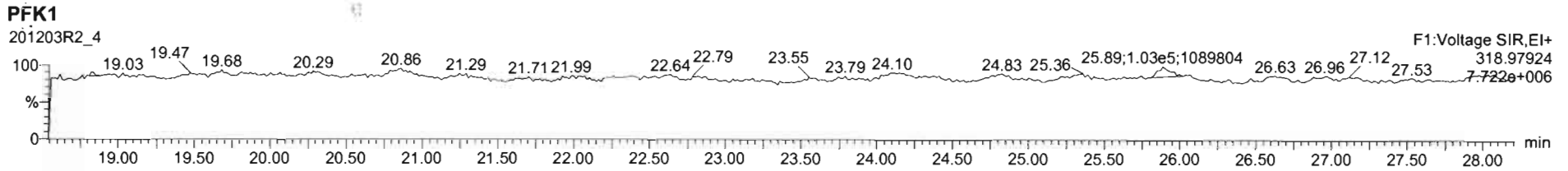
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16	1,2,3,4,7,8,9-HpCDF	1.06e6	4.21e5	1.04	1.02	NO	1.1759	38.52	38.54	NO	1.000	1.001	214	107	NO
17	OCDF	1.89e6	9.93e5	0.89	0.89	NO	0.9960	41.09	41.09	NO	1.000	1.000	435	106	NO
18	13C-2,3,7,8-TCDD	9.54e5	8.19e5	0.77	0.79	NO	1.0555	25.97	25.98	NO	1.030	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



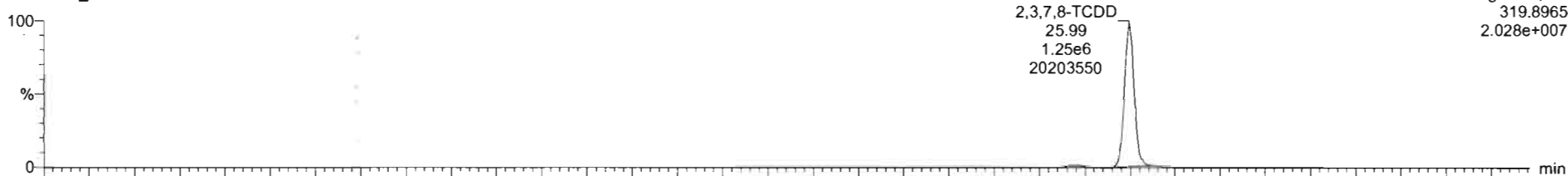
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Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

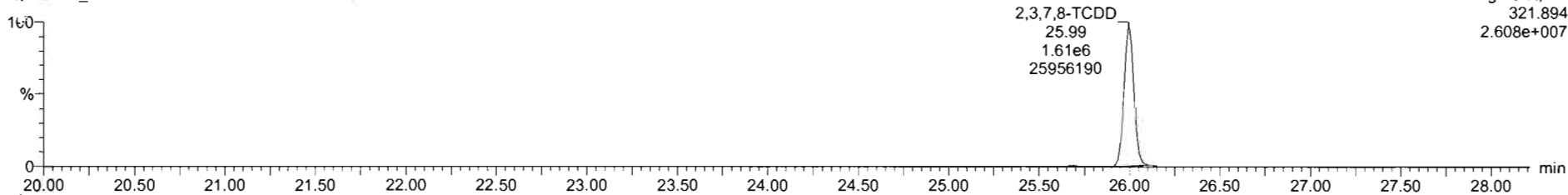
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2,3,7,8-TCDD

201203R2_5

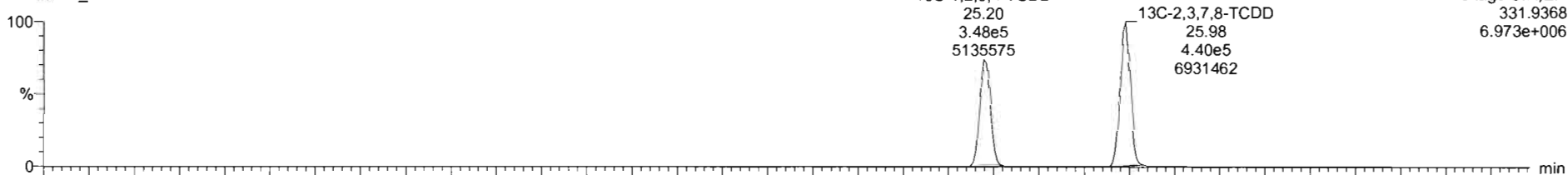


201203R2_5

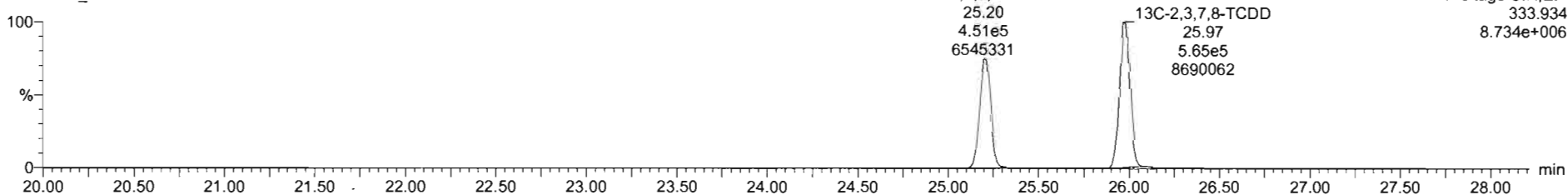


13C-2,3,7,8-TCDD

201203R2_5



201203R2_5



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

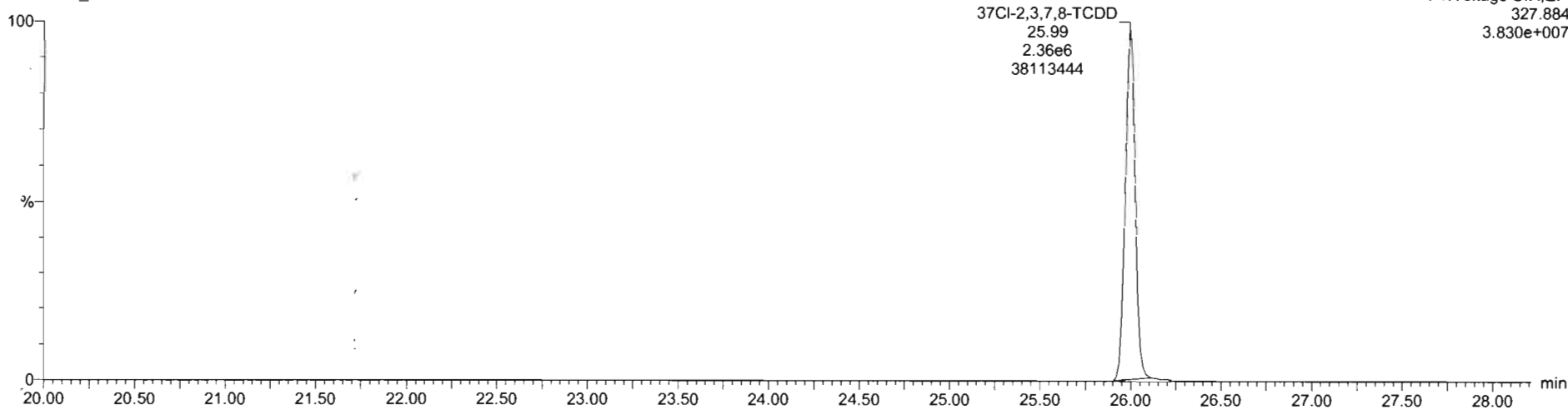
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

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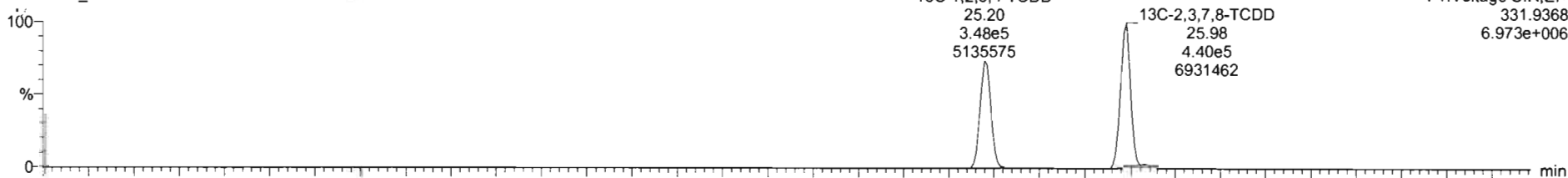
37Cl-2,3,7,8-TCDD

201203R2_5

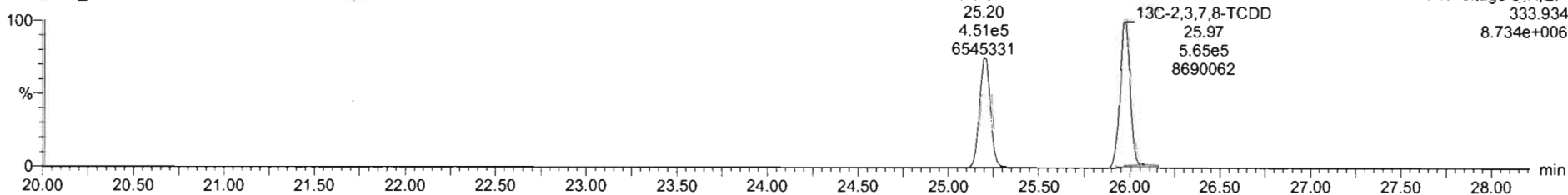


13C-1,2,3,4-TCDD

201203R2_5



201203R2_5



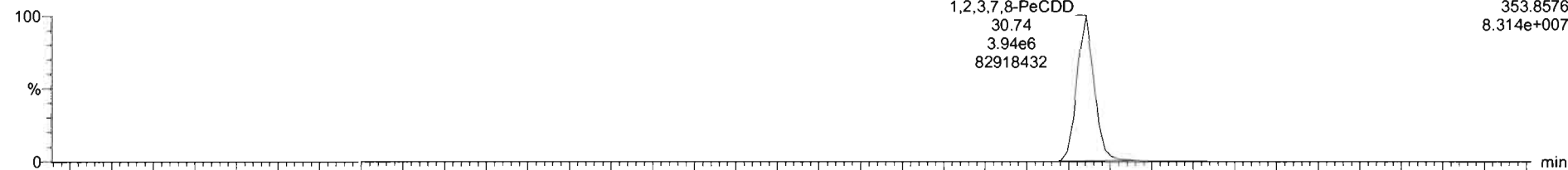
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

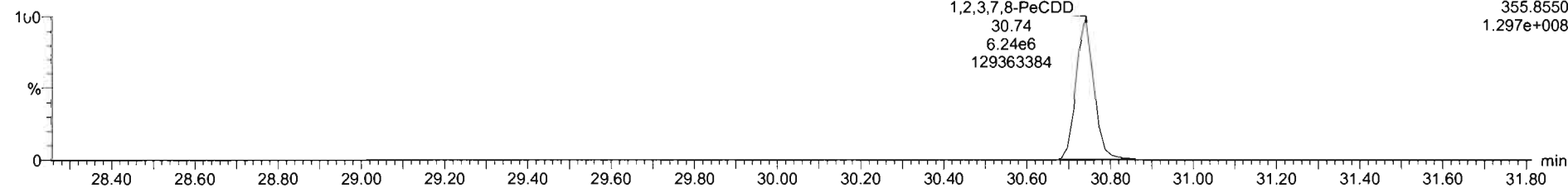
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1,2,3,7,8-PeCDD

201203R2_5

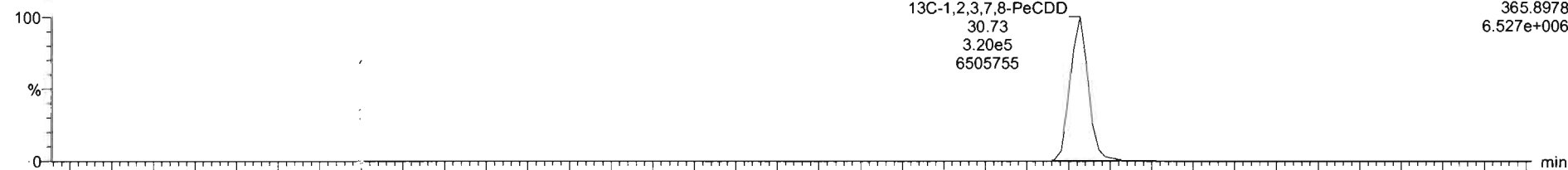


201203R2_5

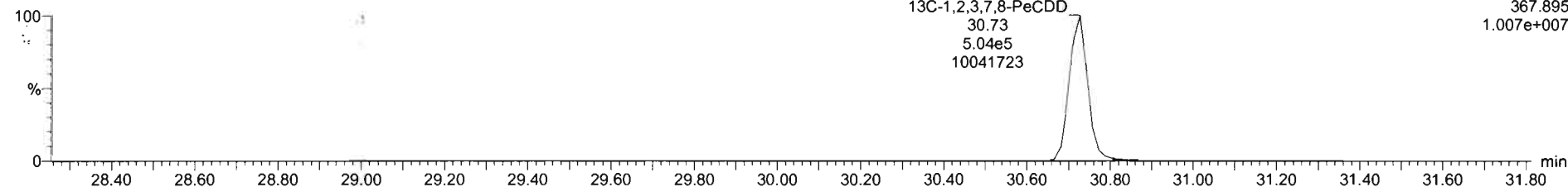


13C-1,2,3,7,8-PeCDD

201203R2_5



201203R2_5



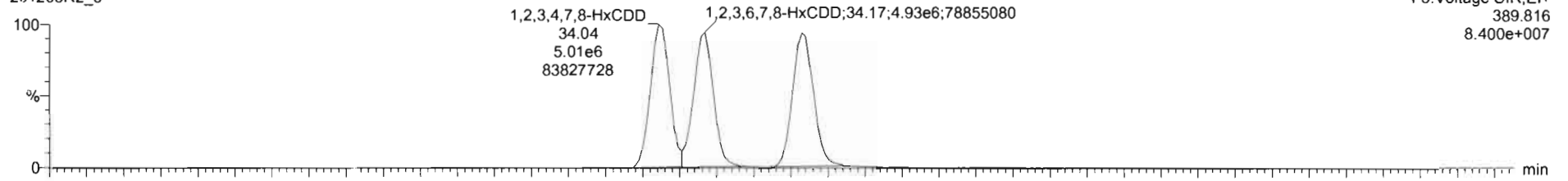
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Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

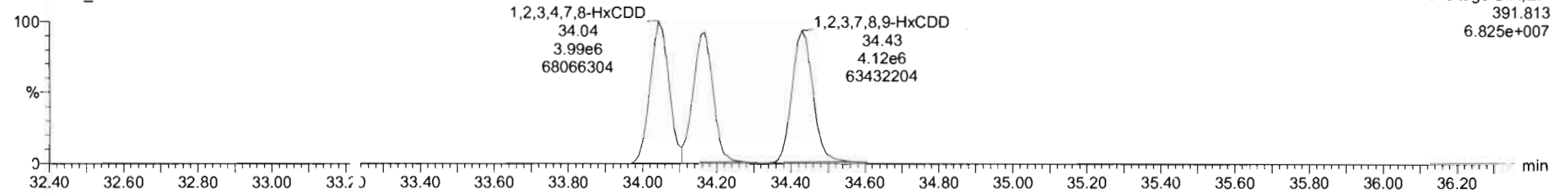
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1,2,3,4,7,8-HxCDD

201203R2_5

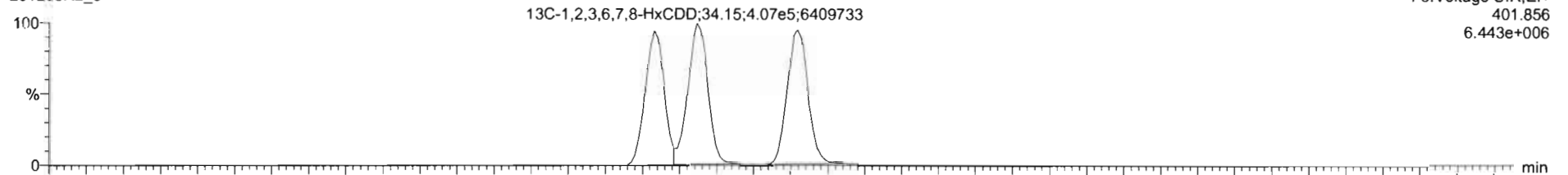


201203R2_5

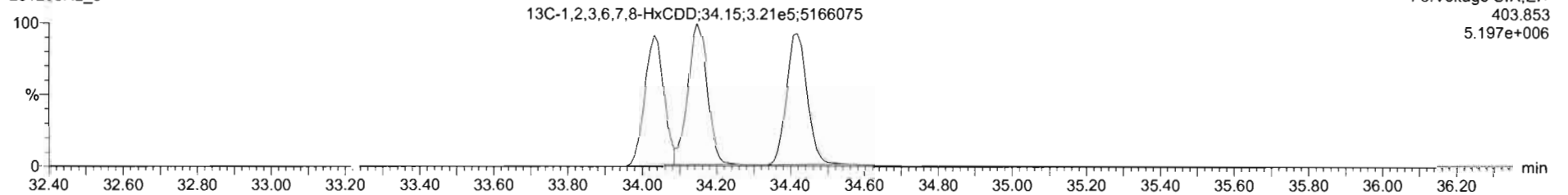


13C-1,2,3,4,7,8-HxCDD

201203R2_5



201203R2_5



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

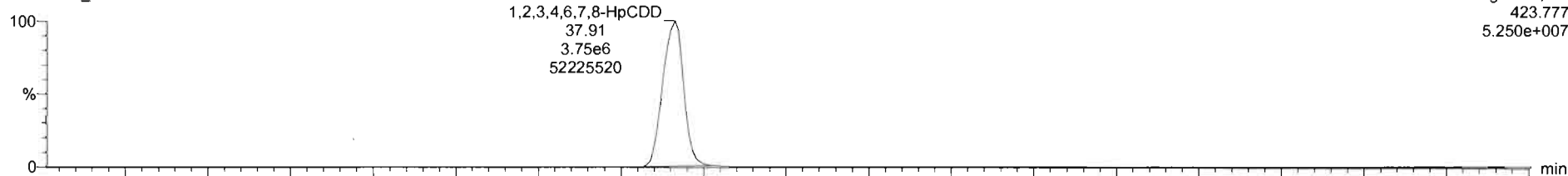
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_5, Date: 03-Dec-2020, Time: 13:47:04, ID: ST201203R2_5 1613 CS5 20L0303, Description: 1613 CS5 20L0303

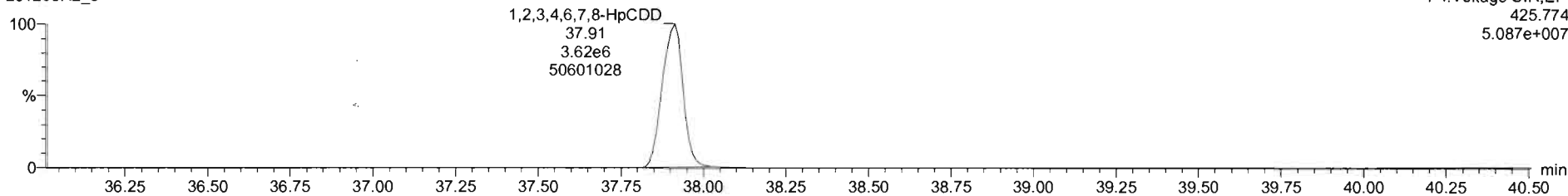
1,2,3,4,6,7,8-HpCDD

201203R2_5



F4: Voltage SIR, EI+
423.777
5.250e+007

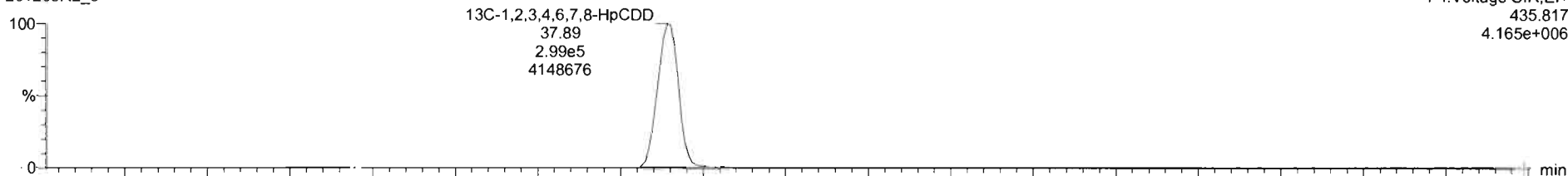
201203R2_5



F4: Voltage SIR, EI+
425.774
5.087e+007

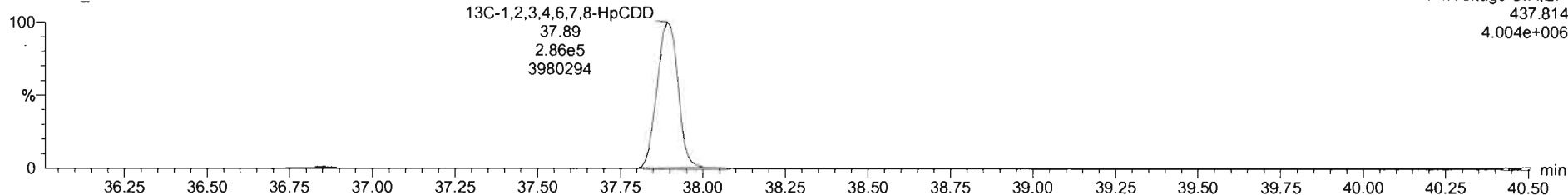
13C-1,2,3,4,6,7,8-HpCDD

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

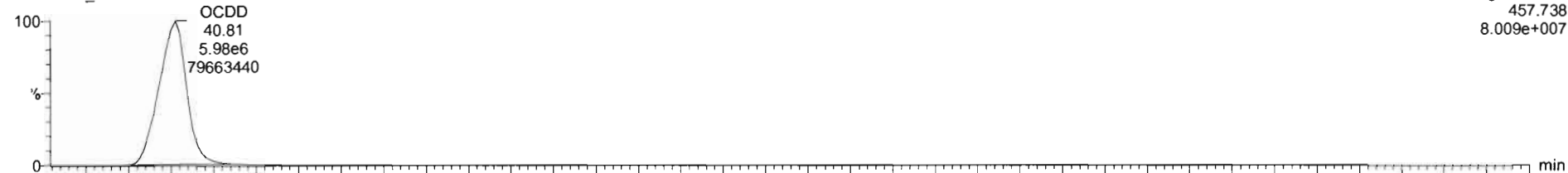
Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time

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

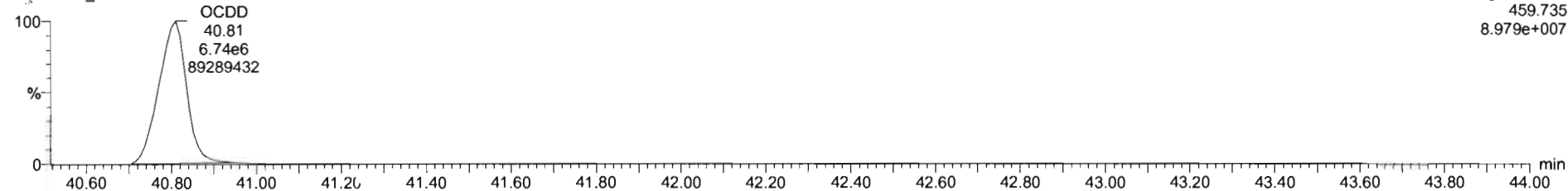
OCDD

201203R2_5



F5:Voltage SIR,EI+
457.738
8.009e+007

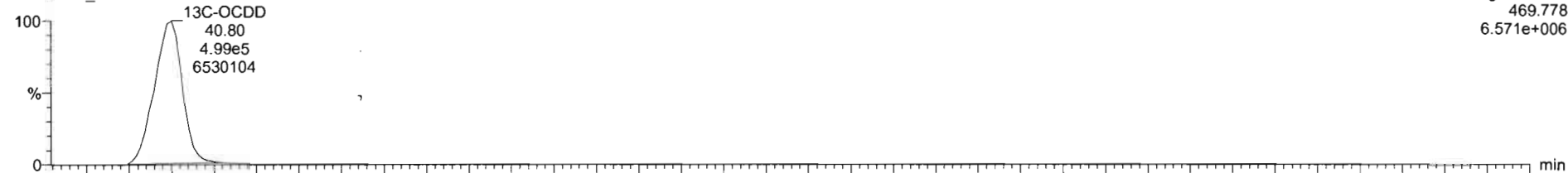
201203R2_5



F5:Voltage SIR,EI+
459.735
8.979e+007

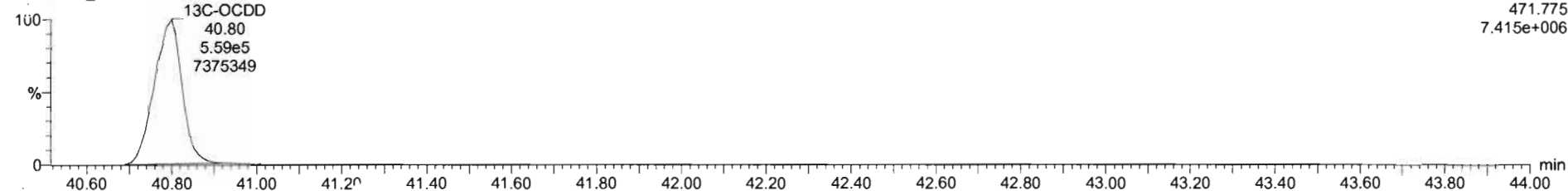
13C-OCDD

201203R2_5



F5:Voltage SIR,EI+
469.778
6.571e+006

201203R2_5



F5:Voltage SIR,EI+
471.775
7.415e+006

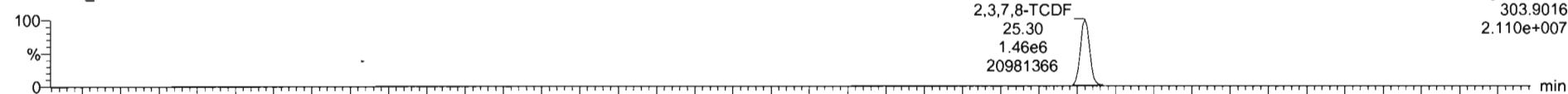
Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

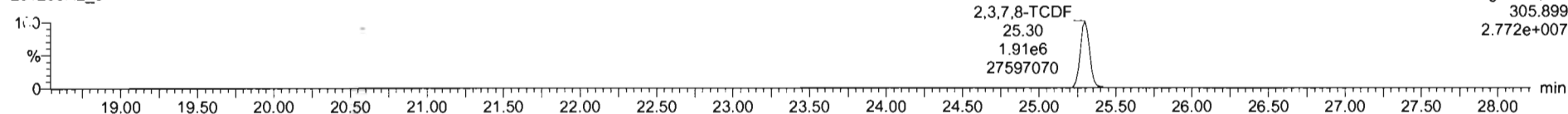
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2,3,7,8-TCDF

201203R2_5

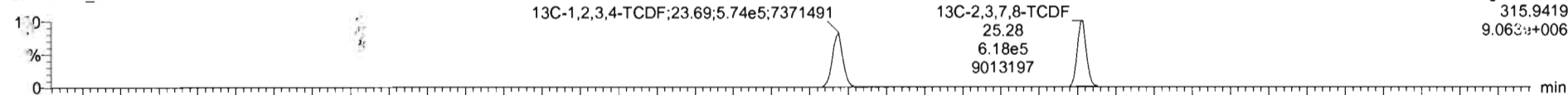


201203R2_5

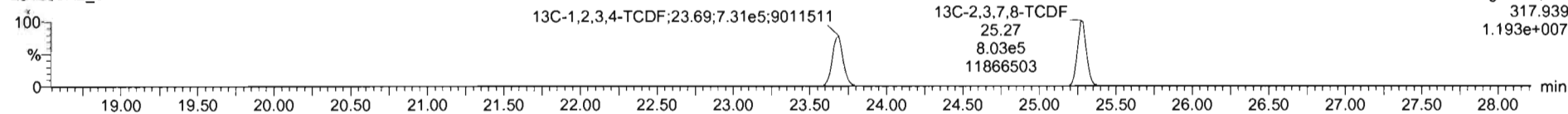


13C-2,3,7,8-TCDF

201203R2_5

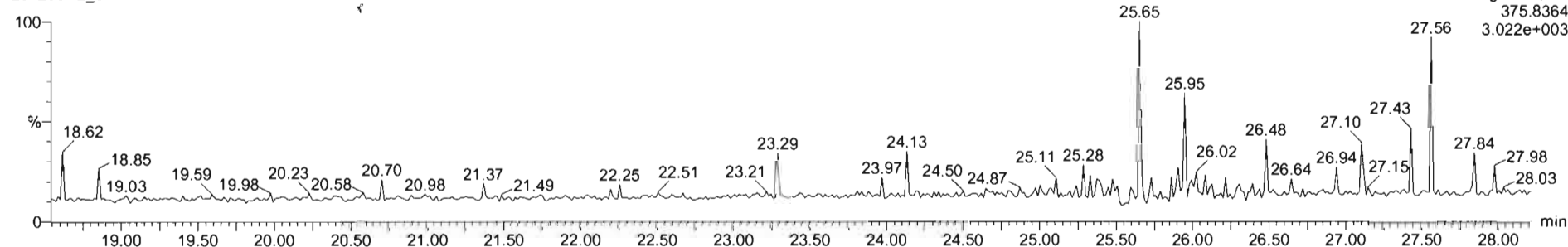


201203R2_5



DPE1

201203R2_5



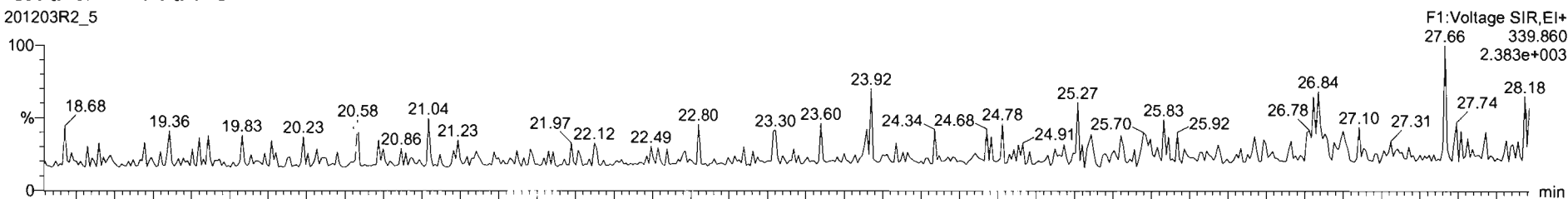
Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

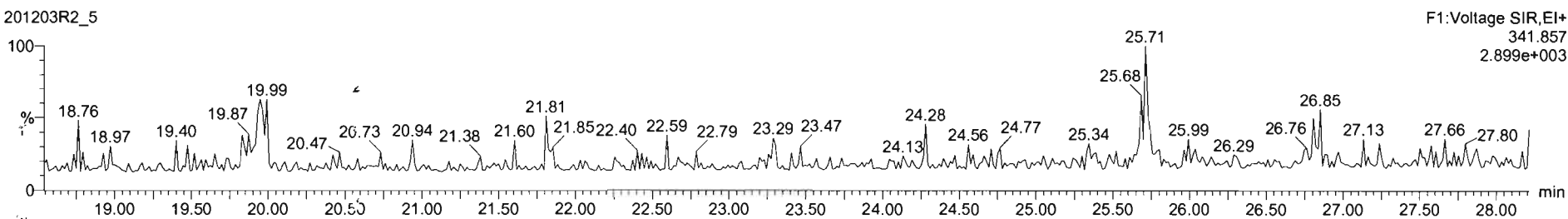
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1st Func. Penta-Furans

201203R2_5

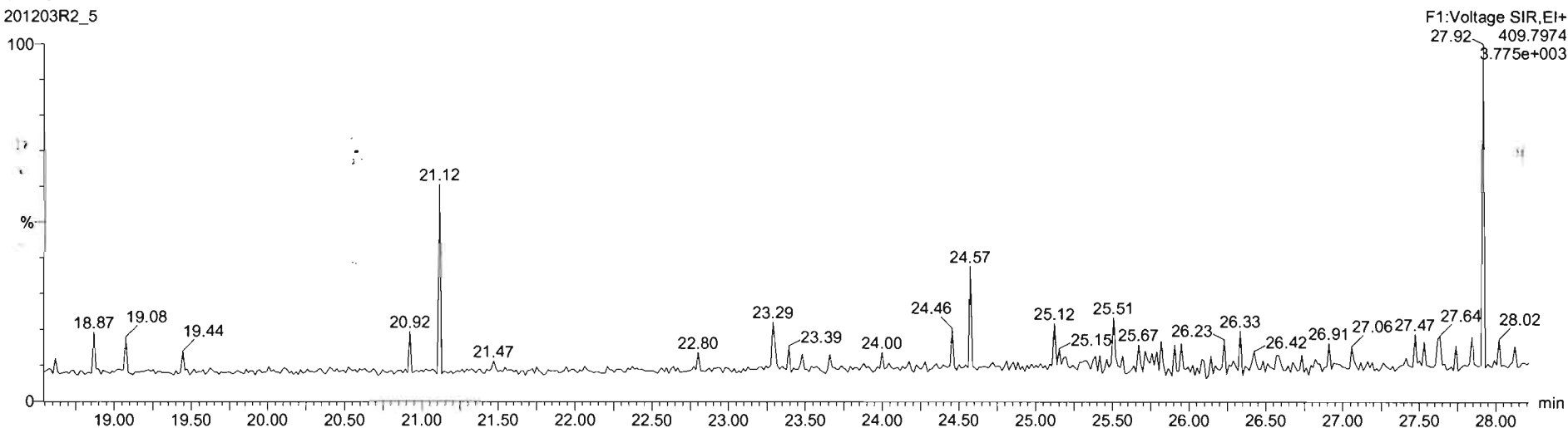


201203R2_5



DPE6

201203R2_5



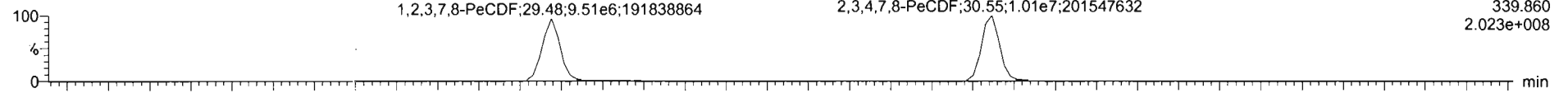
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Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

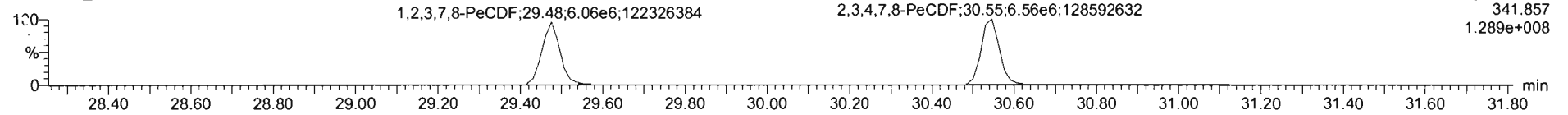
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1,2,3,7,8-PeCDF

201203R2_5

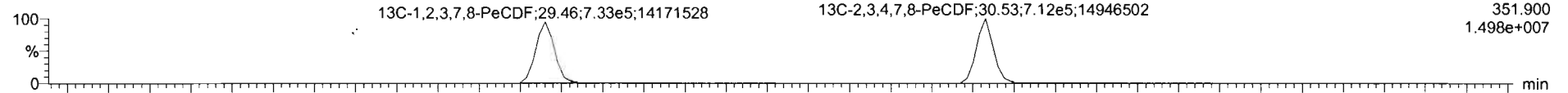


201203R2_5

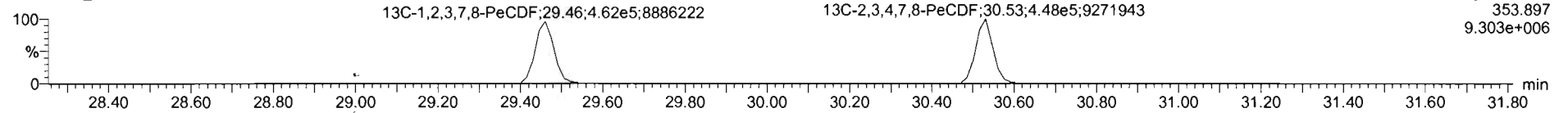


13C-1,2,3,7,8-PeCDF

201203R2_5

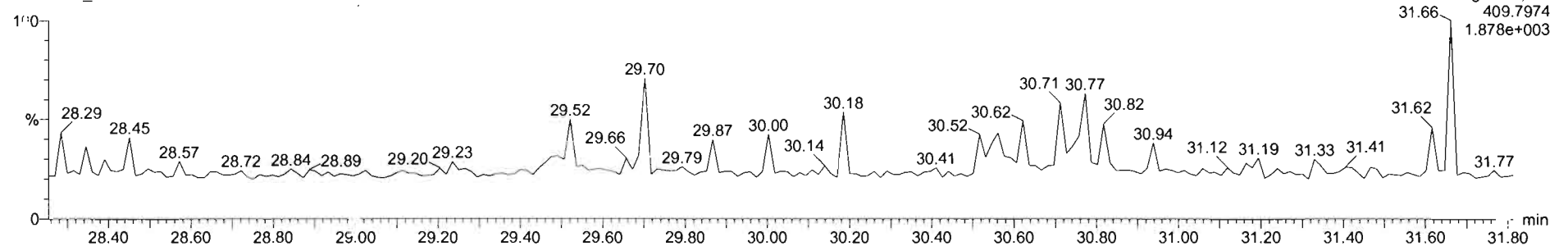


201203R2_5



DPE2

201203R2_5



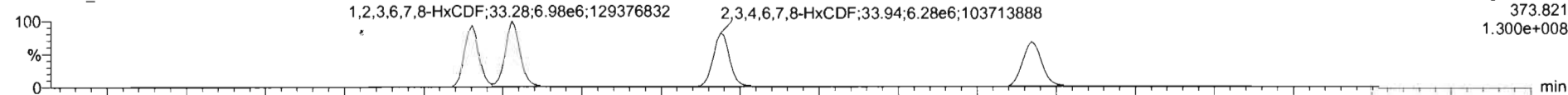
Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

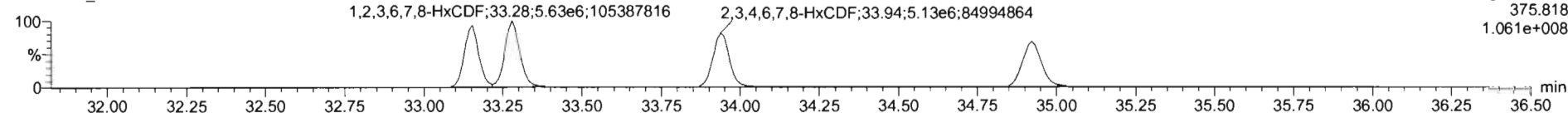
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1,2,3,4,7,8-HxCDF

201203R2_5

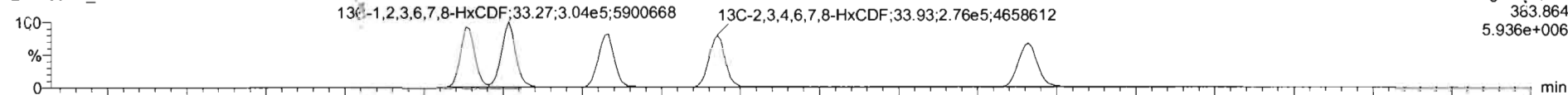


201203R2_5

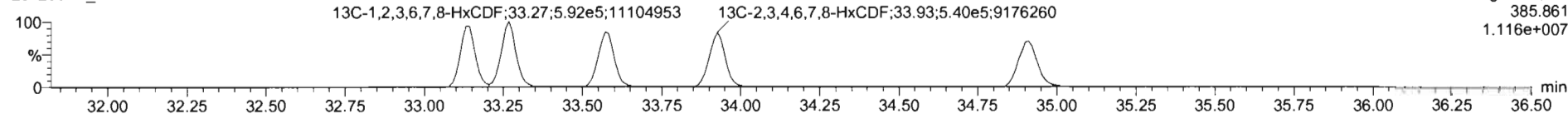


13C-1,2,3,4,7,8-HxCDF

201203R2_5

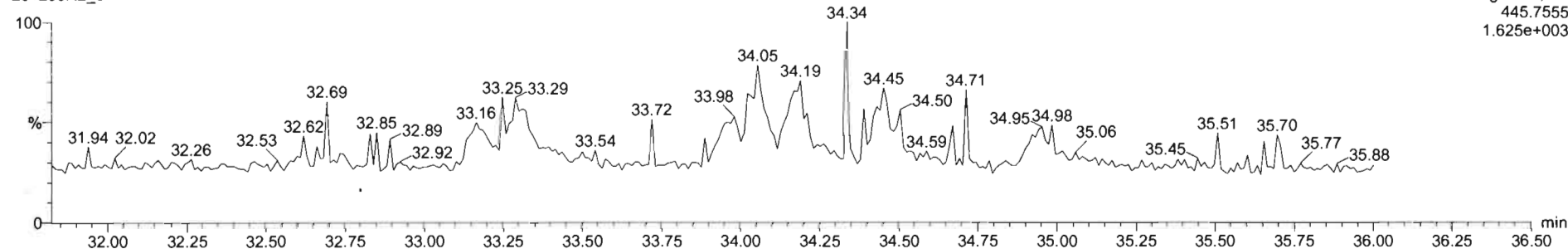


201203R2_5



DPE3

201203R2_5

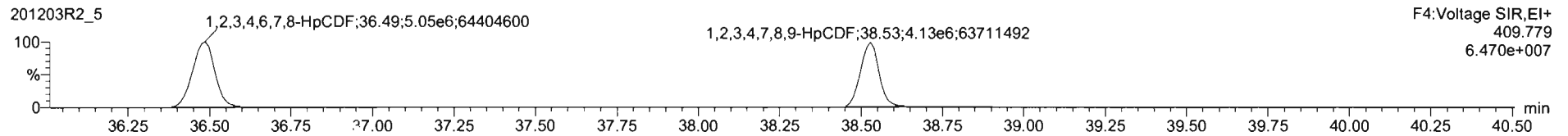
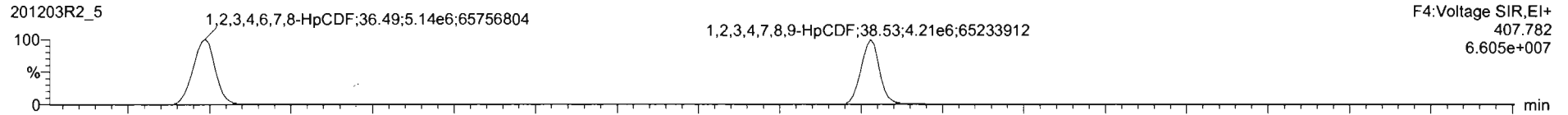


D .taset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

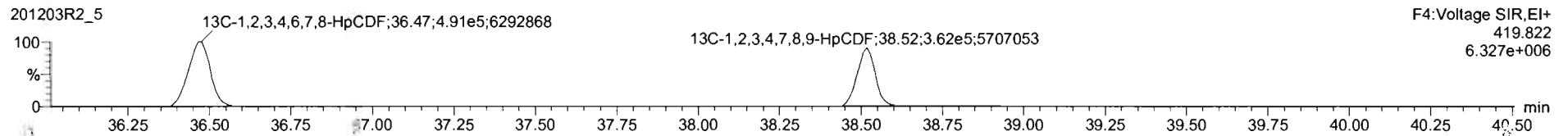
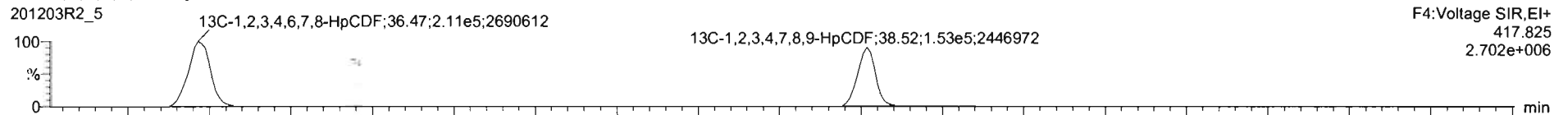
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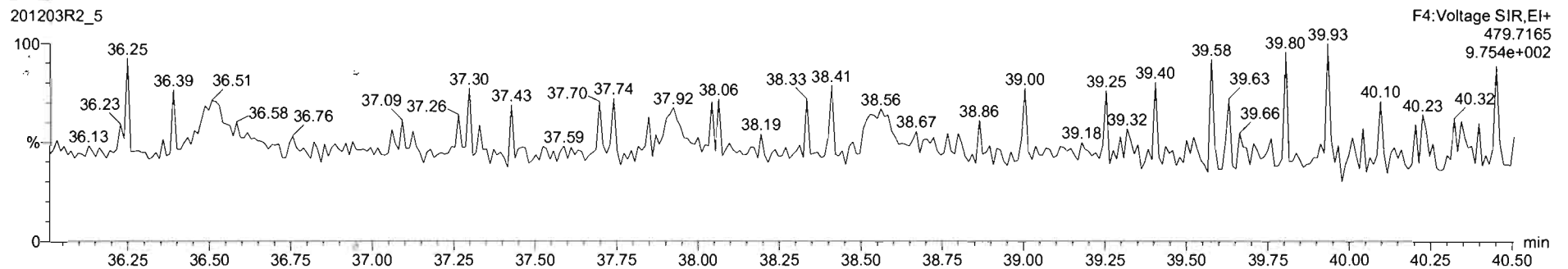
1,2,3,4,6,7,8-HpCDF



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



DPE4



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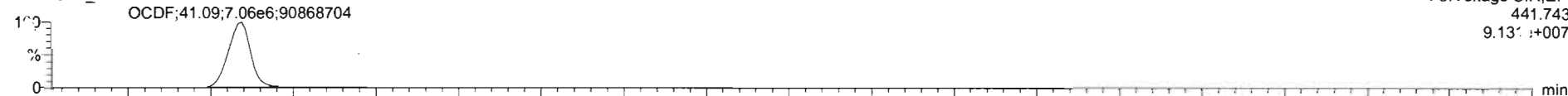
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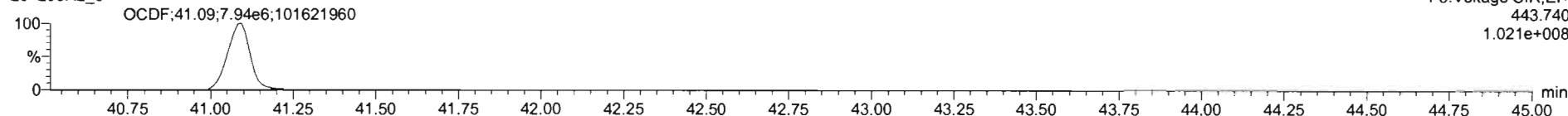
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OCDF

201203R2_5

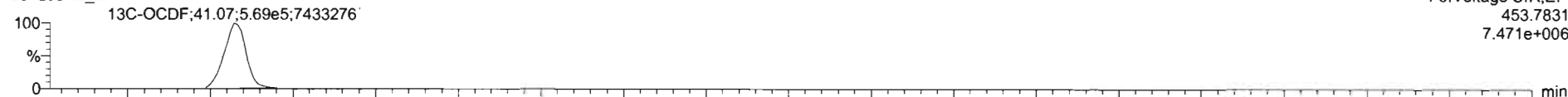


201203R2_5

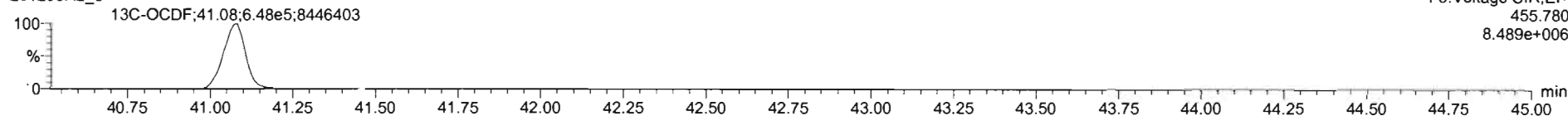


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201203R2_5

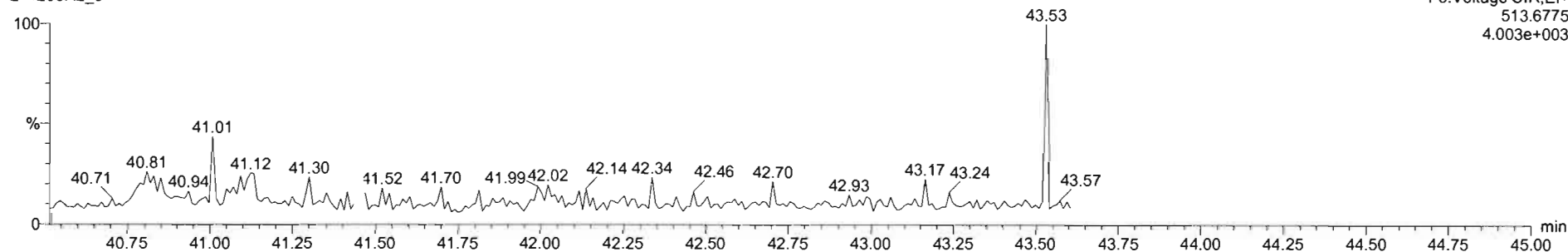


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DPE5

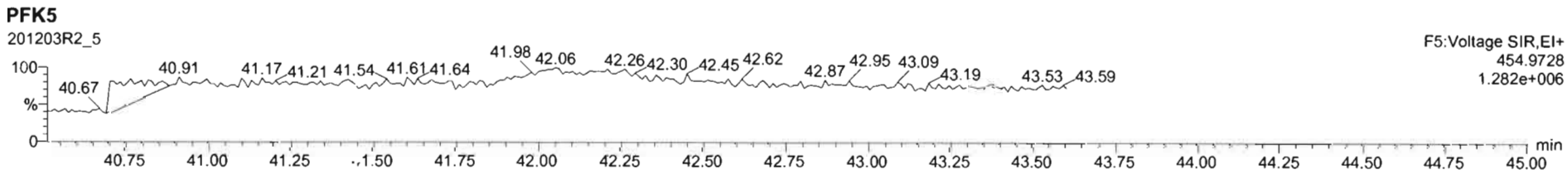
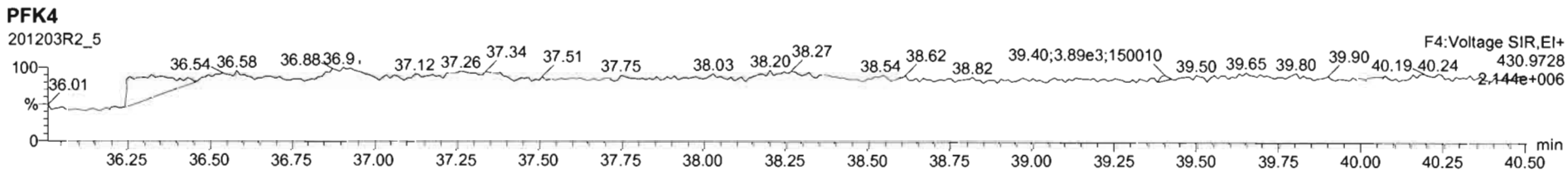
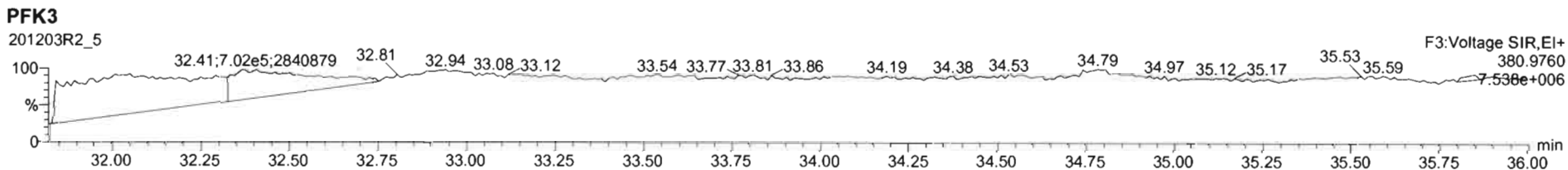
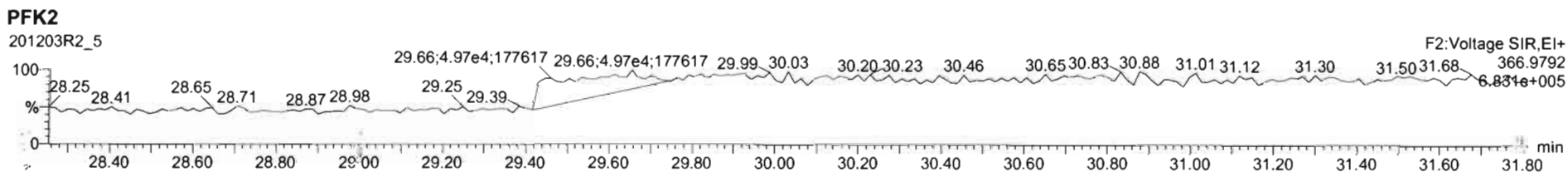
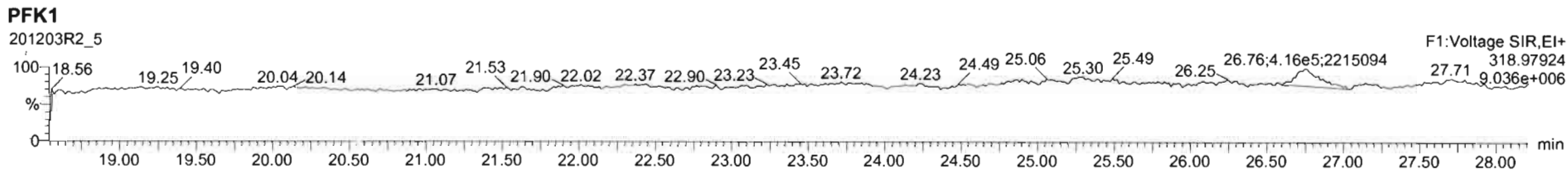
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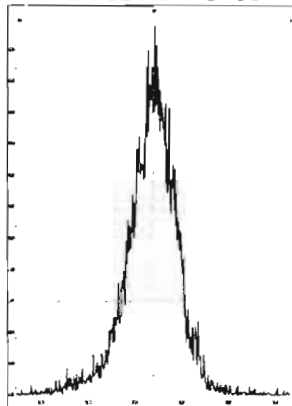
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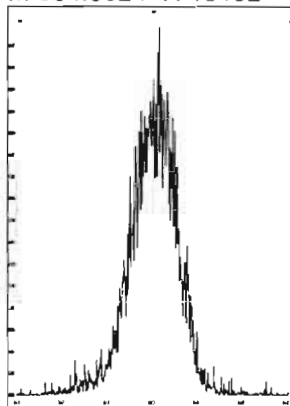
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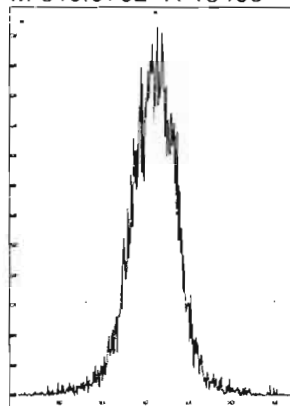
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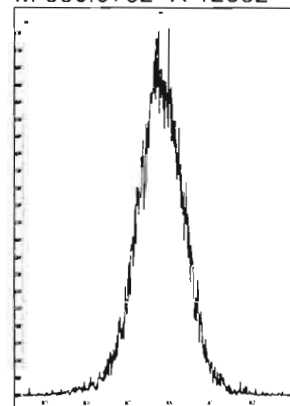
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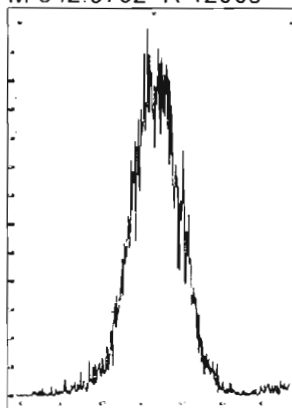
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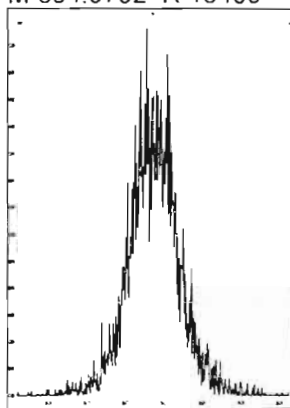
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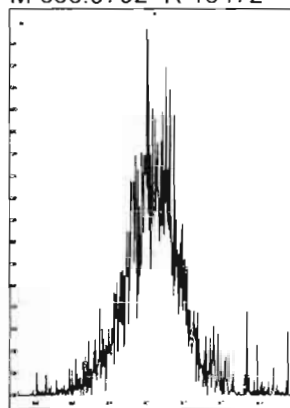
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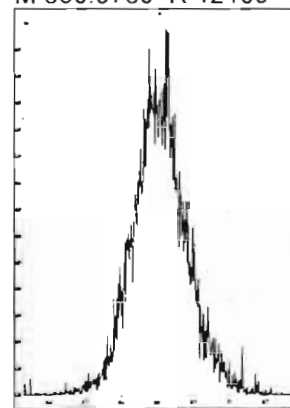
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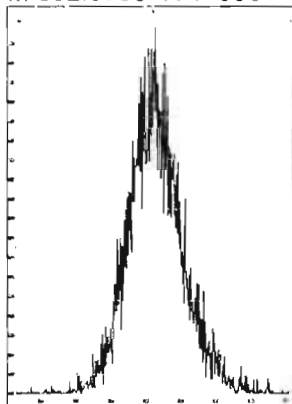
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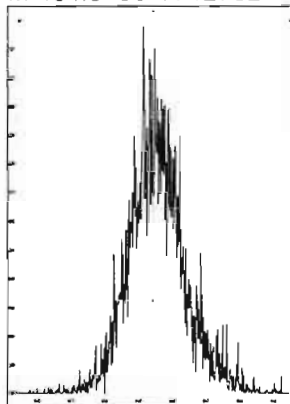
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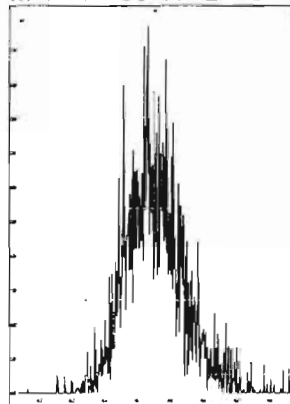
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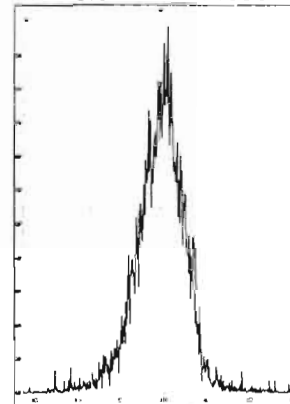
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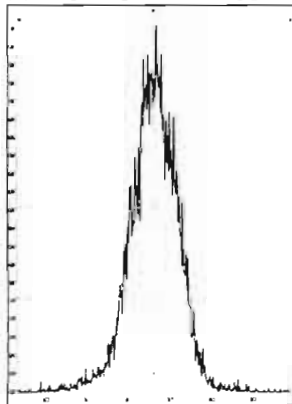
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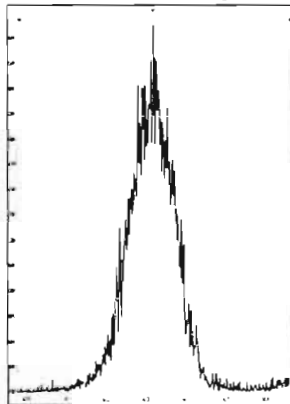
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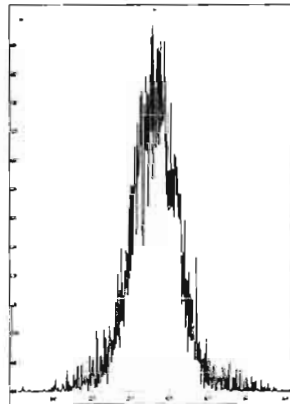
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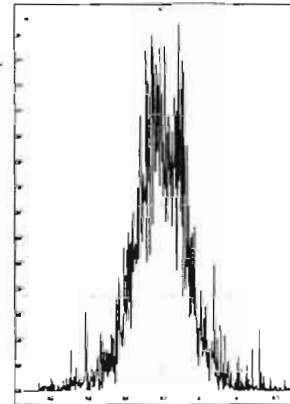
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M 354.9792 R 14296

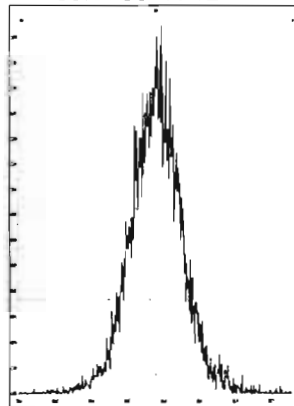


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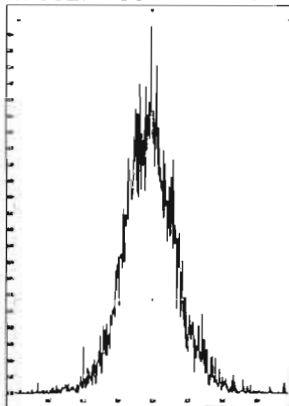


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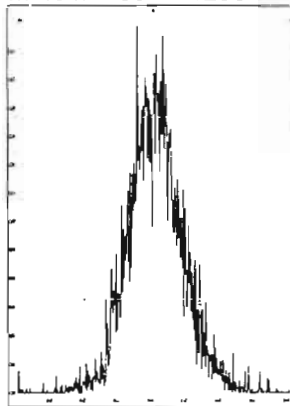
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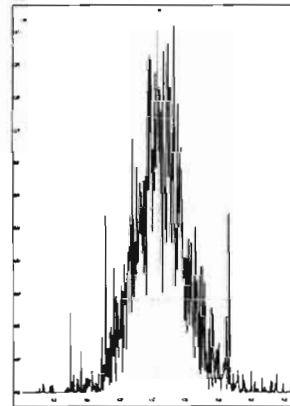
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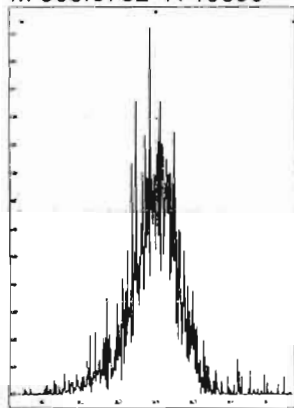
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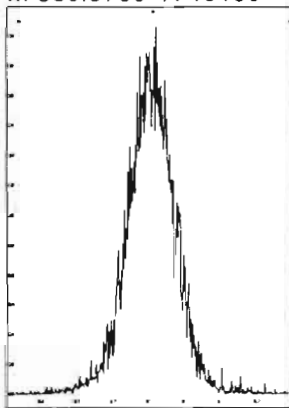
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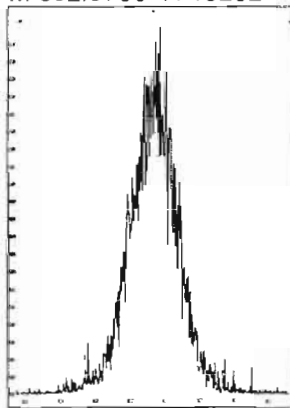
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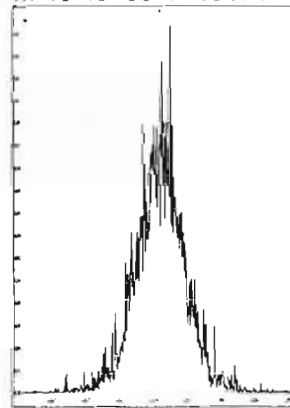
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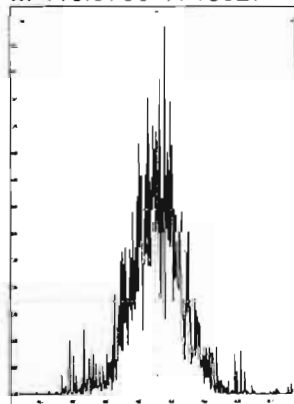
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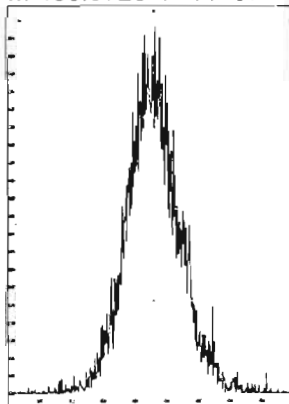
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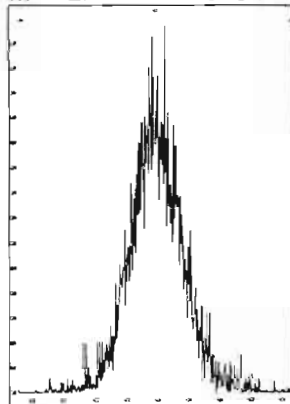
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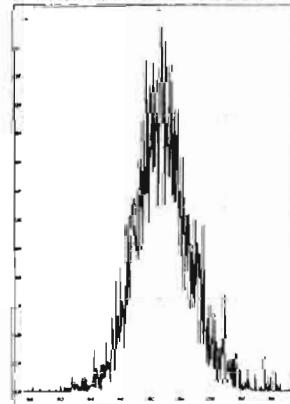
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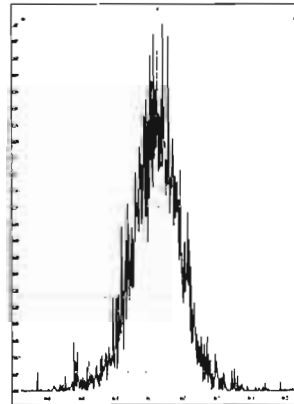
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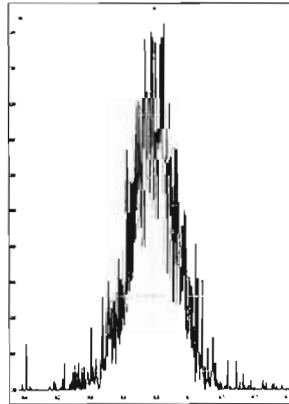
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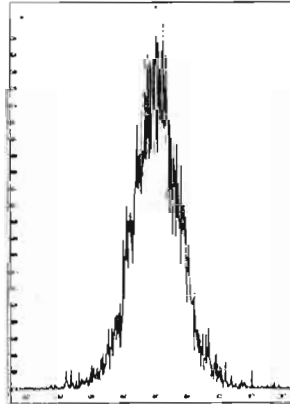
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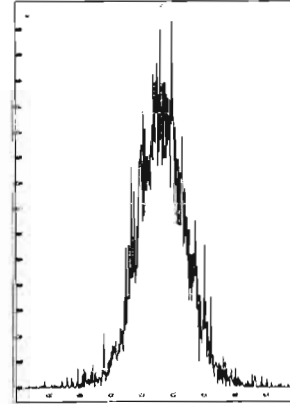
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M 430.9728 R 13311

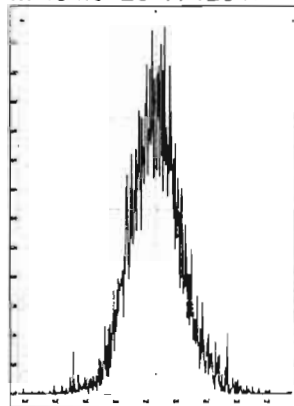


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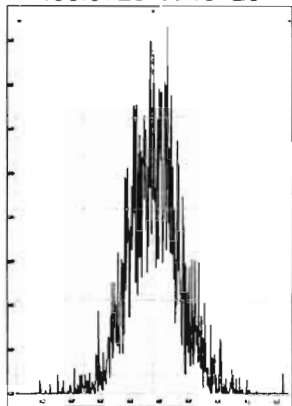


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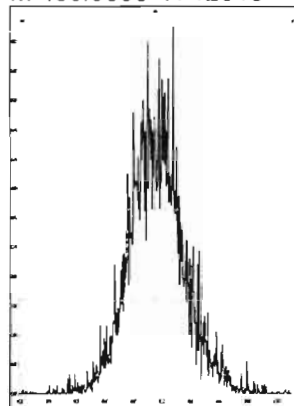
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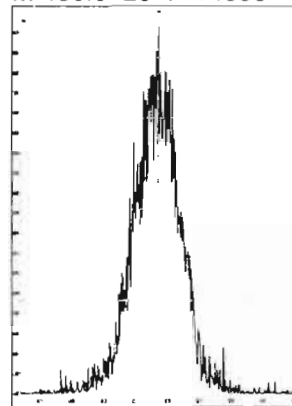
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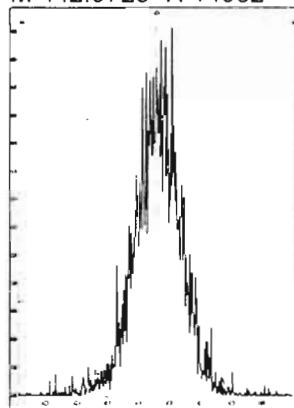
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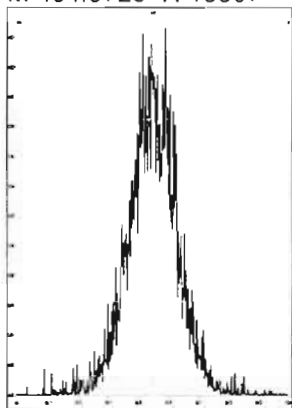
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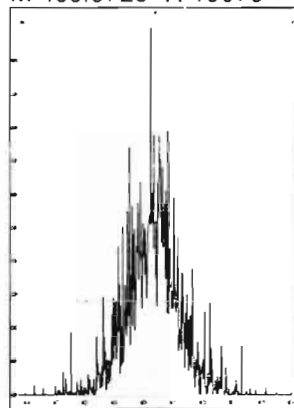
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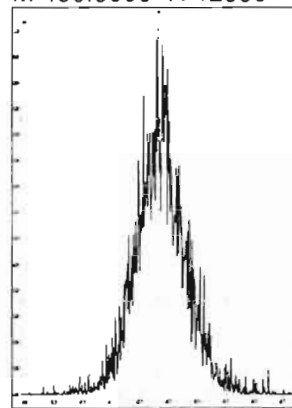
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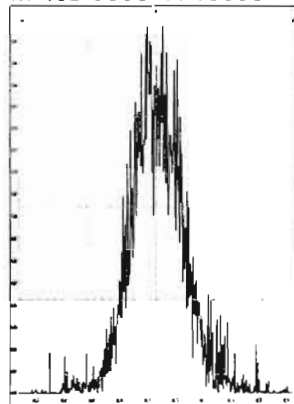
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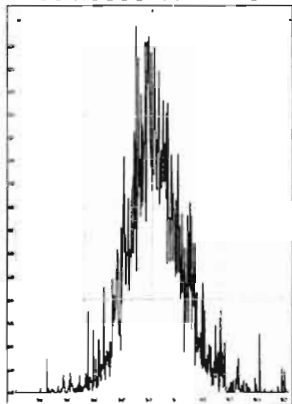
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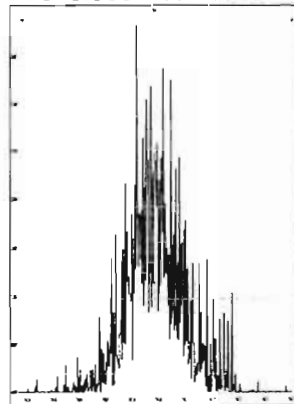
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M 504.9696 R 12886



M 516.9697 R 14159



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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

Last Altered: Friday, December 04, 2020 11:47:08 Pacific Standard Time

Printed: Friday, December 04, 2020 11:48:25 Pacific Standard Time

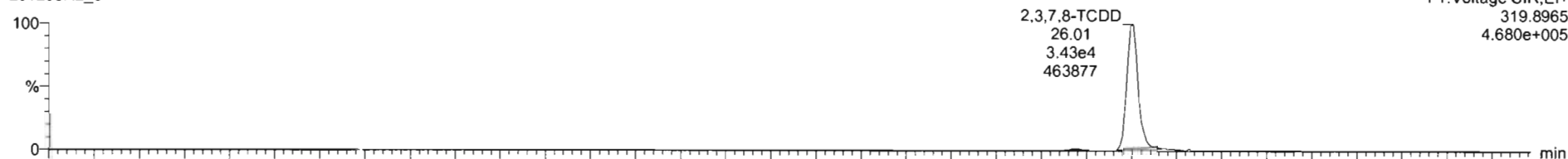
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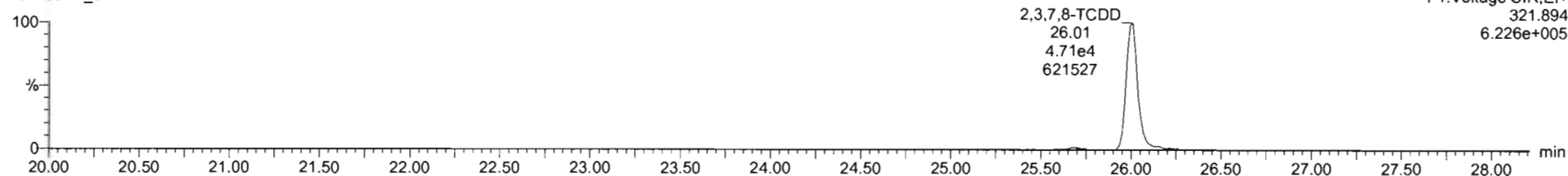
Name: 201203R2_8, Date: 03-Dec-2020, Time: 16:09:07, ID: SS201203R2_1 1613 SSS 20K1907, Description: 1613 SSS 20K1907

2,3,7,8-TCDD

201203R2_8

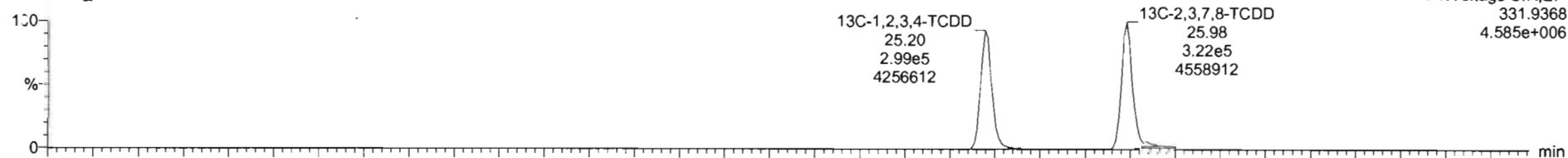


201203R2_8

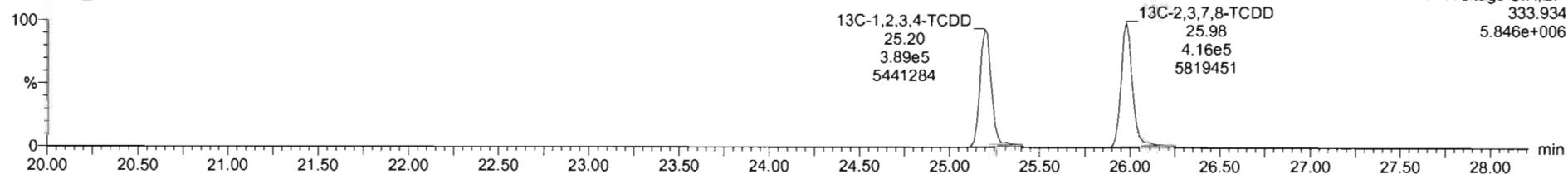


13C-2,3,7,8-TCDD

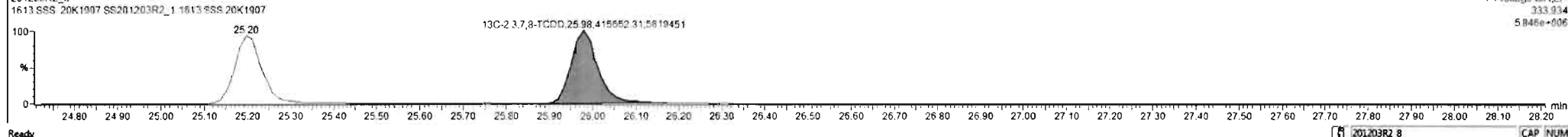
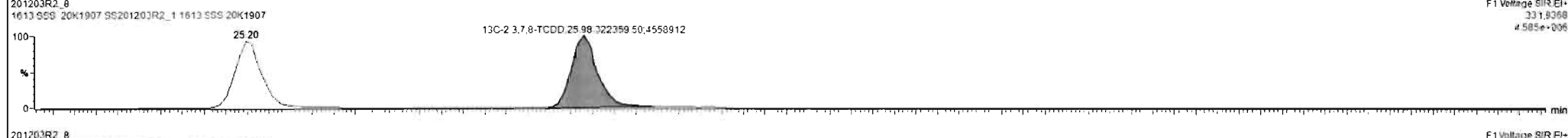
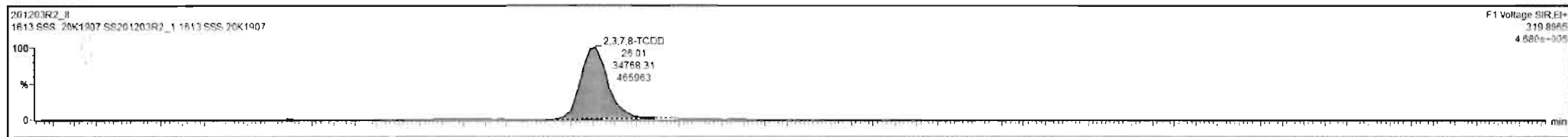
201203R2_8



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



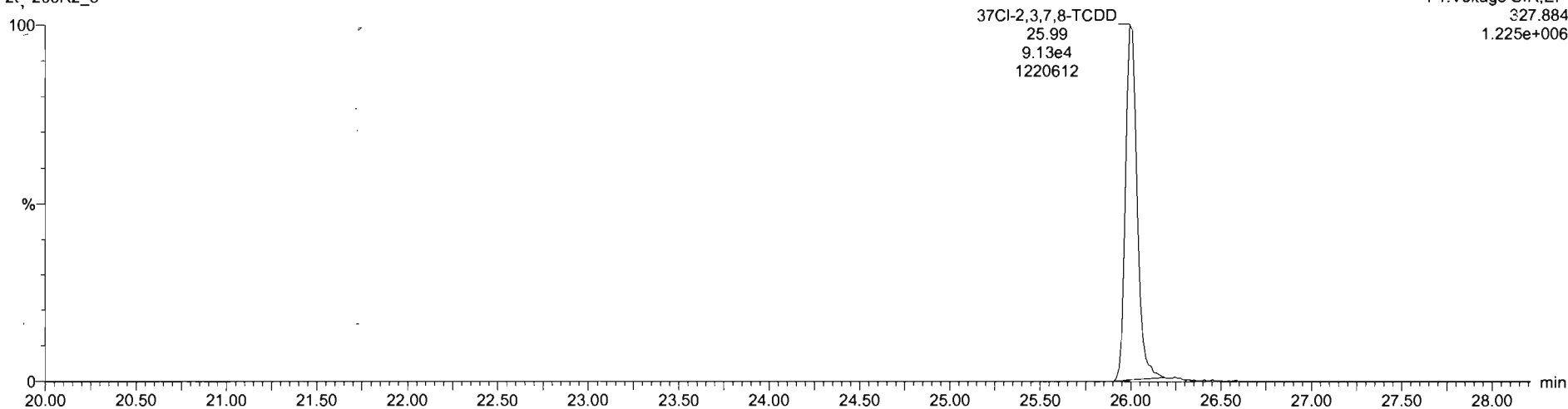
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Last Altered: Friday, December 04, 2020 11:47:08 Pacific Standard Time
Printed: Friday, December 04, 2020 11:48:25 Pacific Standard Time

Name: 201203R2_8, Date: 03-Dec-2020, Time: 16:09:07, ID: SS201203R2_1 1613 SSS 20K1907, Description: 1613 SSS 20K1907

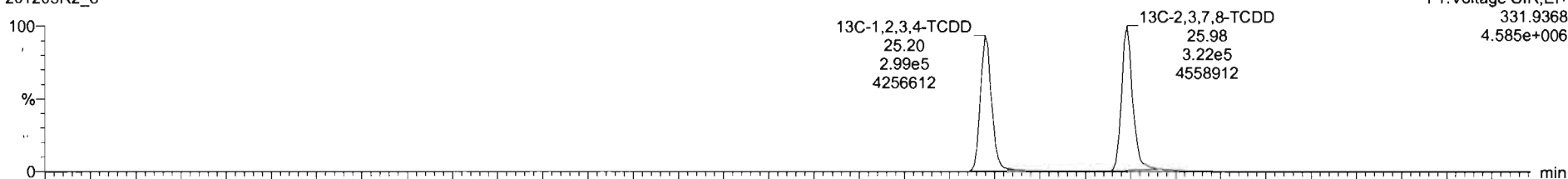
37Cl-2,3,7,8-TCDD

201203R2_8

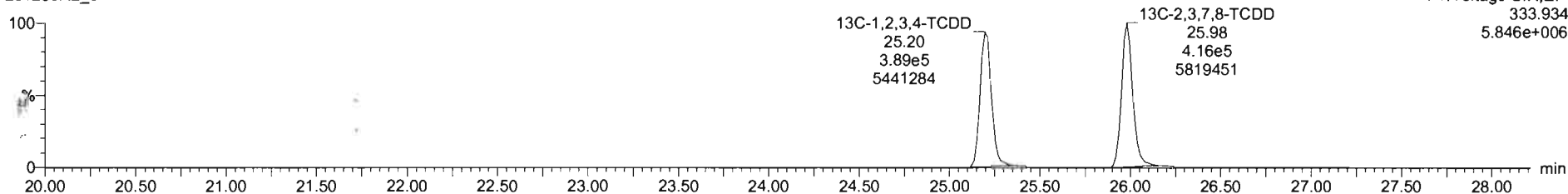


13C-1,2,3,4-TCDD

201203R2_8



201203R2_8



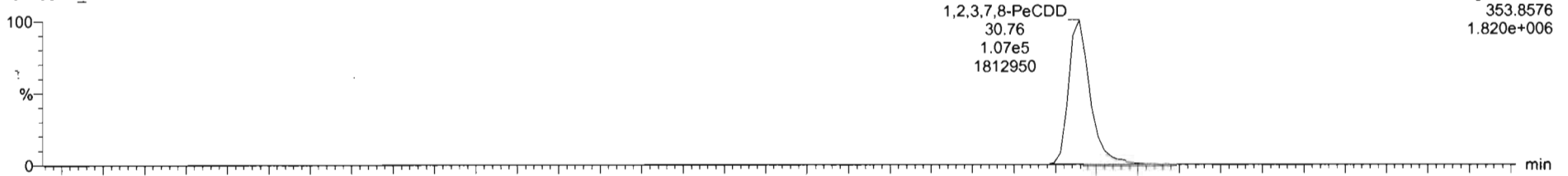
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Last Altered: Friday, December 04, 2020 11:47:08 Pacific Standard Time
Printed: Friday, December 04, 2020 11:48:25 Pacific Standard Time

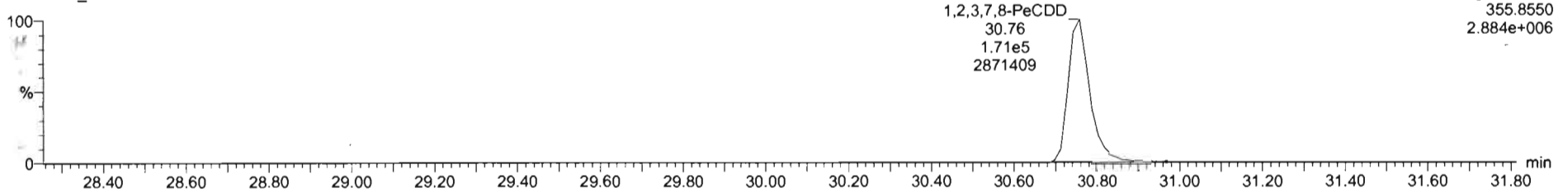
Name: 201203R2_8, Date: 03-Dec-2020, Time: 16:09:07, ID: SS201203R2_1 1613 SSS 20K1907, Description: 1613 SSS 20K1907

1,2,3,7,8-PeCDD

201203R2_8

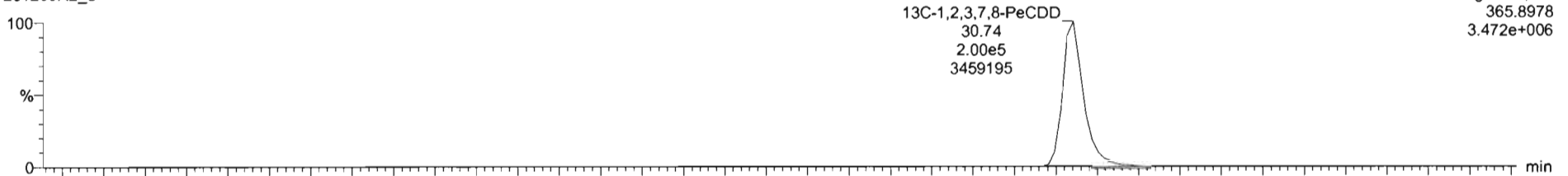


201203R2_8

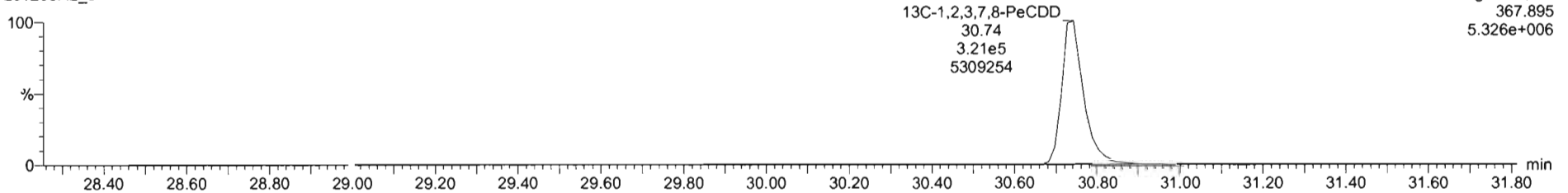


13C-1,2,3,7,8-PeCDD

201203R2_8



201203R2_8



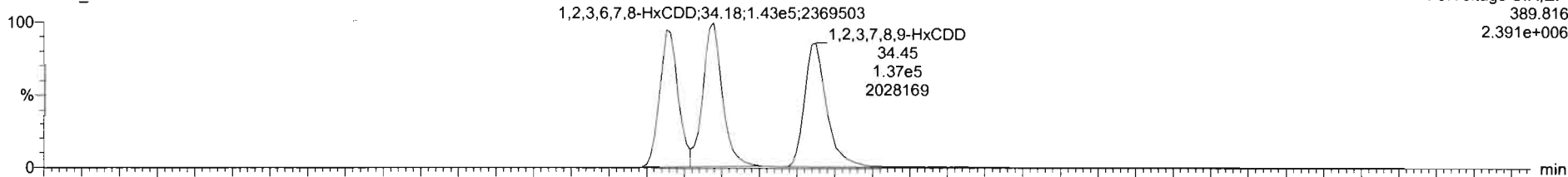
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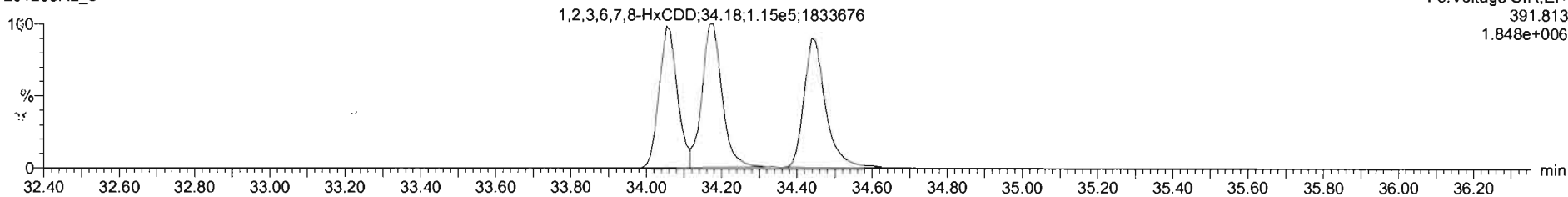
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1,2,3,4,7,8-HxCDD

201203R2_8

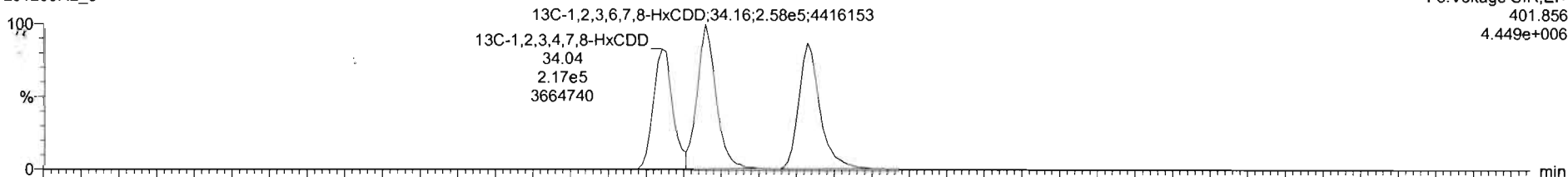


201203R2_8

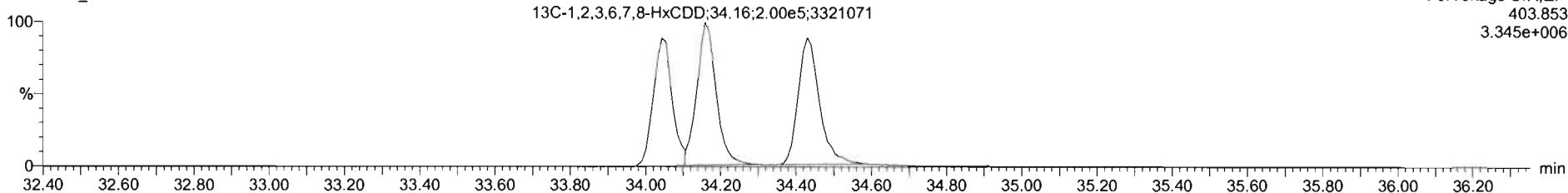


13C-1,2,3,4,7,8-HxCDD

201203R2_8

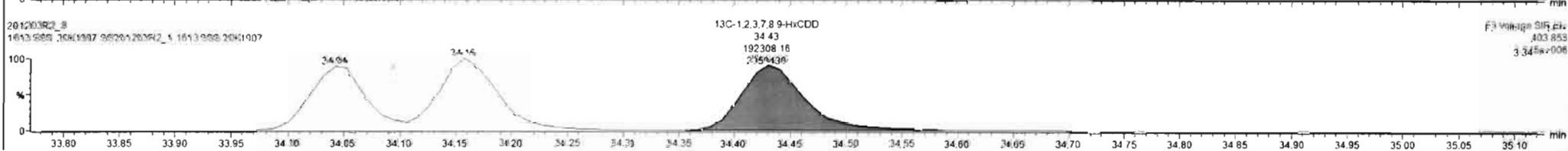
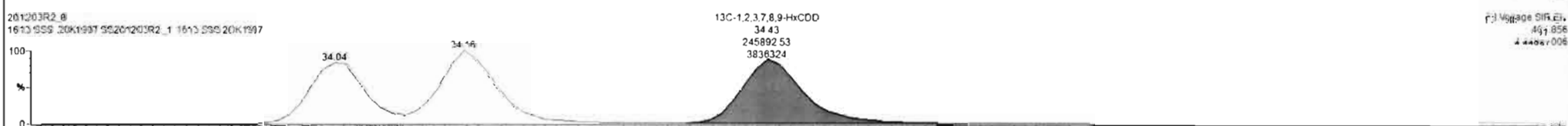
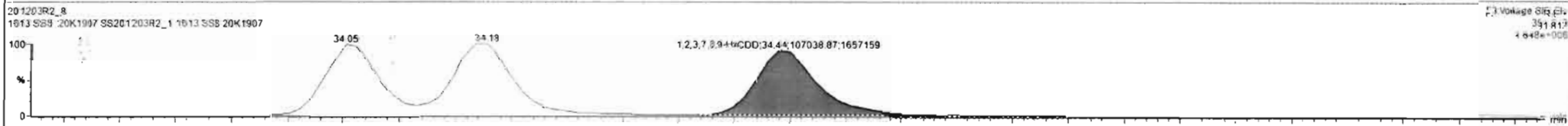
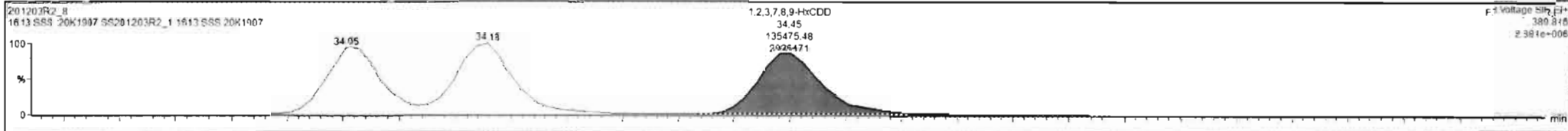


201203R2_8



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	0.208	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	30.56	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	1.0368	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



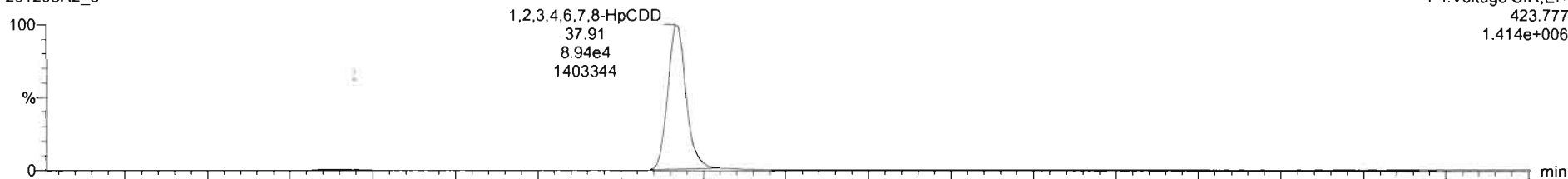
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Printed: Friday, December 04, 2020 11:48:25 Pacific Standard Time

Name: 201203R2_8, Date: 03-Dec-2020, Time: 16:09:07, ID: SS201203R2_1 1613 SSS 20K1907, Description: 1613 SSS 20K1907

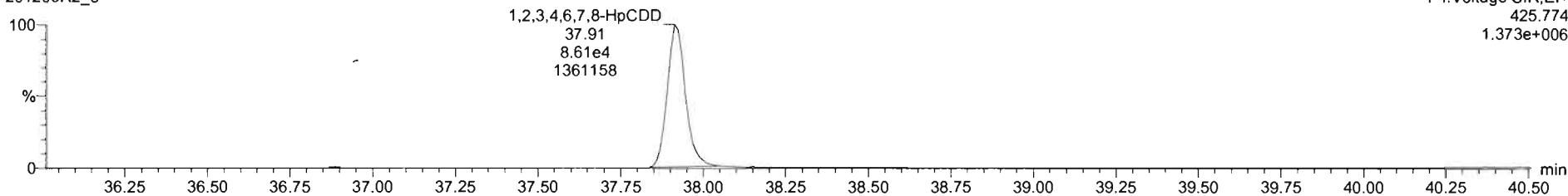
1,2,3,4,6,7,8-HpCDD

201203R2_8



F4: Voltage SIR, EI+
423.777
1.414e+006

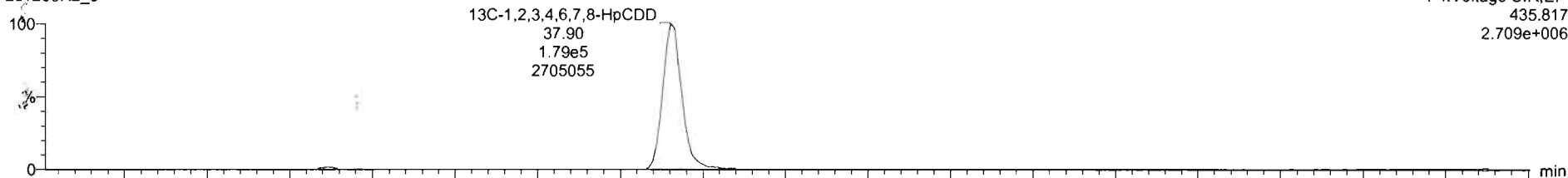
201203R2_8



F4: Voltage SIR, EI+
425.774
1.373e+006

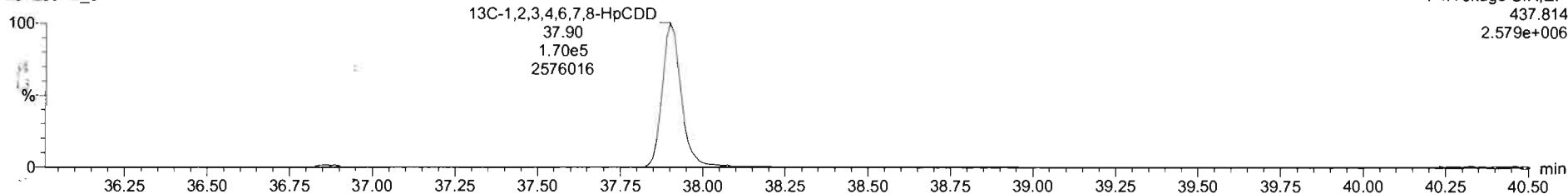
13C-1,2,3,4,6,7,8-HpCDD

201203R2_8



F4: Voltage SIR, EI+
435.817
2.709e+006

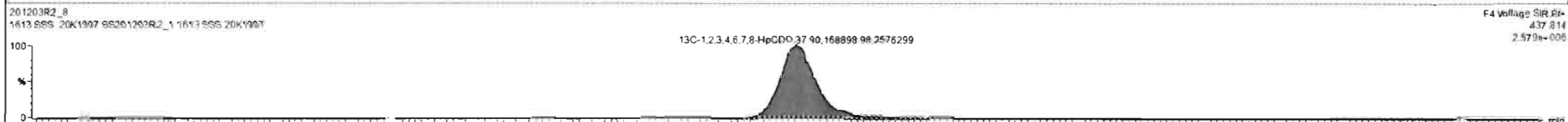
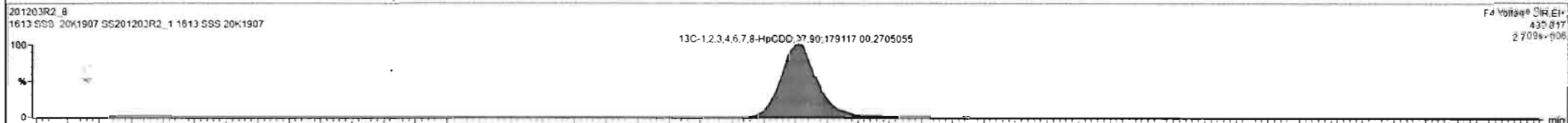
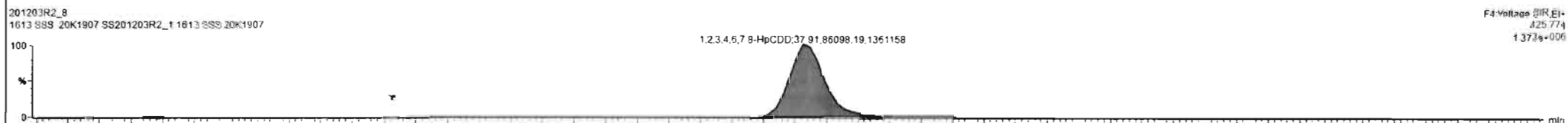
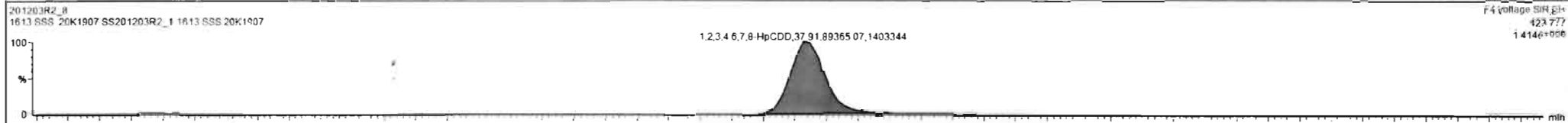
201203R2_8



F4: Voltage SIR, EI+
437.814
2.579e+006

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



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_8.qld

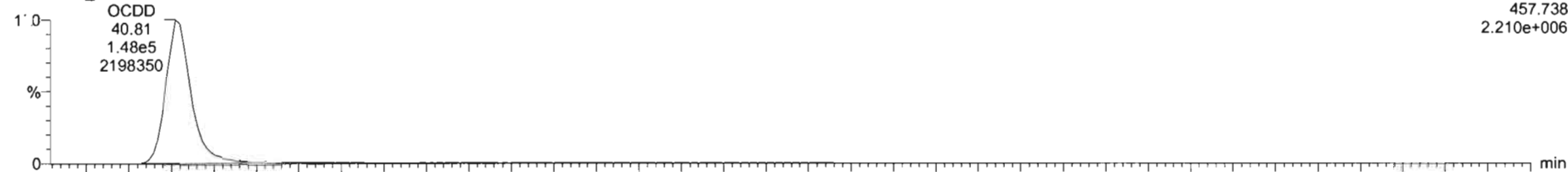
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Printed: Friday, December 04, 2020 11:48:25 Pacific Standard Time

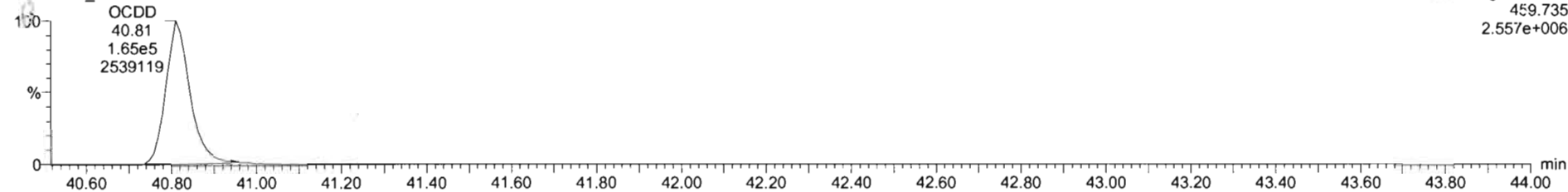
Name: 201203R2_8, Date: 03-Dec-2020, Time: 16:09:07, ID: SS201203R2_1 1613 SSS 20K1907, Description: 1613 SSS 20K1907

OCDD

201203R2_8

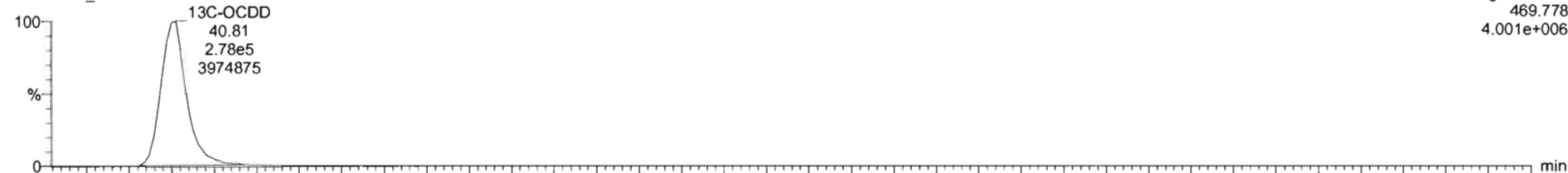


201203R2_8

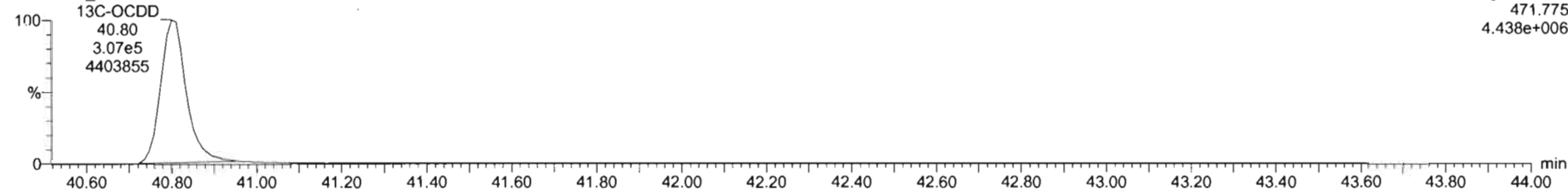


13C-OCDD

201203R2_8



201203R2_8



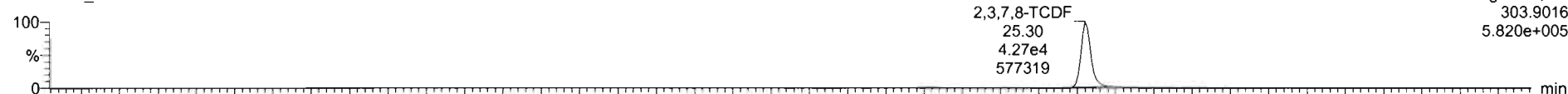
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Printed: Friday, December 04, 2020 11:48:25 Pacific Standard Time

Name: 201203R2_8, Date: 03-Dec-2020, Time: 16:09:07, ID: SS201203R2_1 1613 SSS 20K1907, Description: 1613 SSS 20K1907

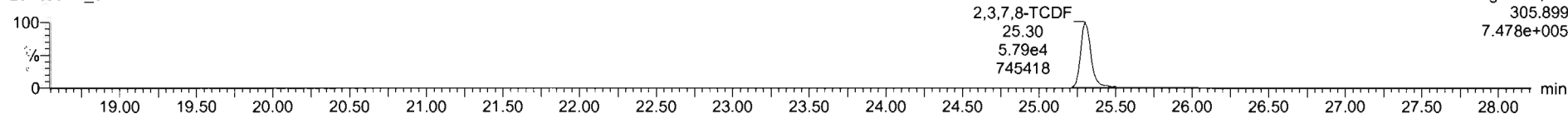
2,3,7,8-TCDF

201203R2_8



F1: Voltage SIR, EI+
303.9016
5.820e+005

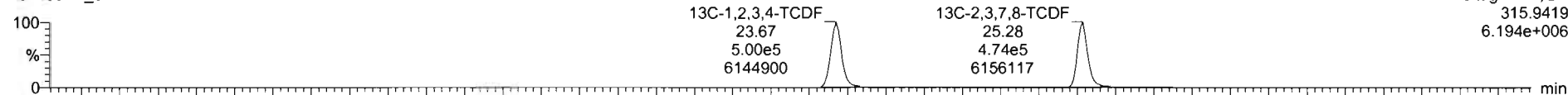
201203R2_8



F1: Voltage SIR, EI+
305.899
7.478e+005

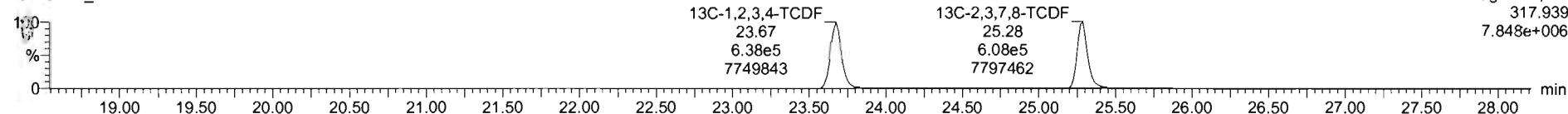
¹³C-2,3,7,8-TCDF

201203R2_8



F1: Voltage SIR, EI+
315.9419
6.194e+006

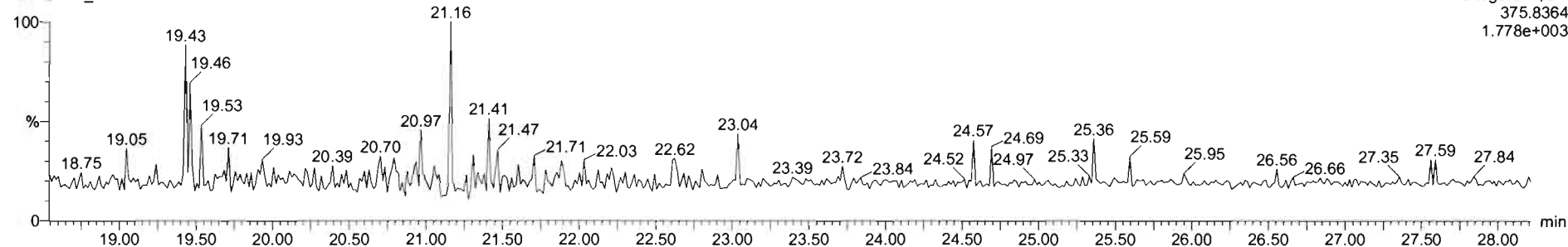
201203R2_8



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

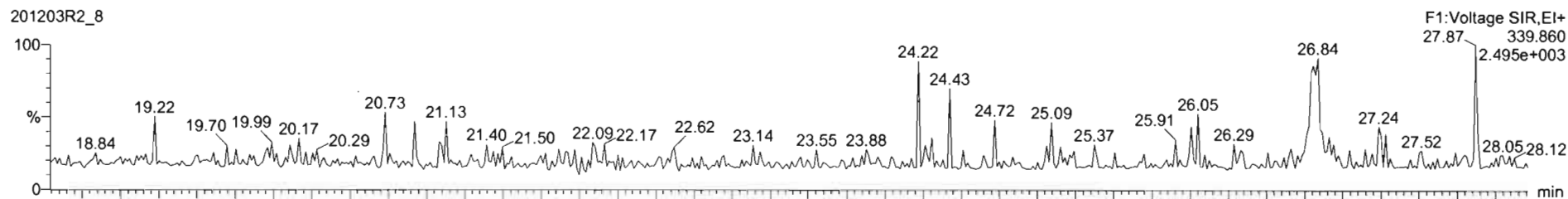
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Printed: Friday, December 04, 2020 11:48:25 Pacific Standard Time

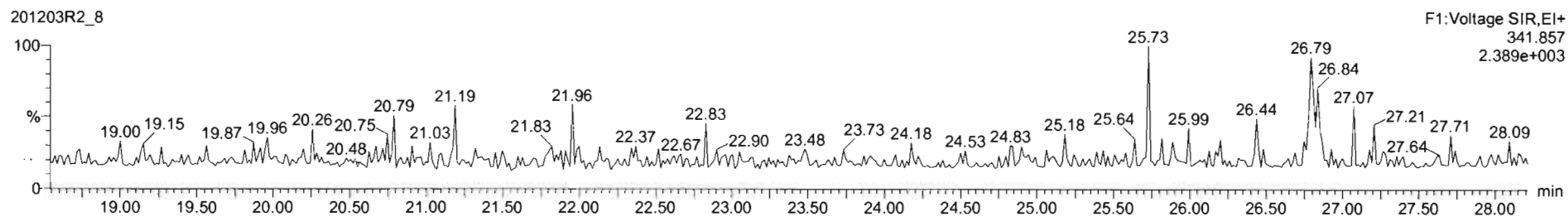
Name: 201203R2_8, Date: 03-Dec-2020, Time: 16:09:07, ID: SS201203R2_1 1613 SSS 20K1907, Description: 1613 SSS 20K1907

1st Func. Penta-Furans

201203R2_8

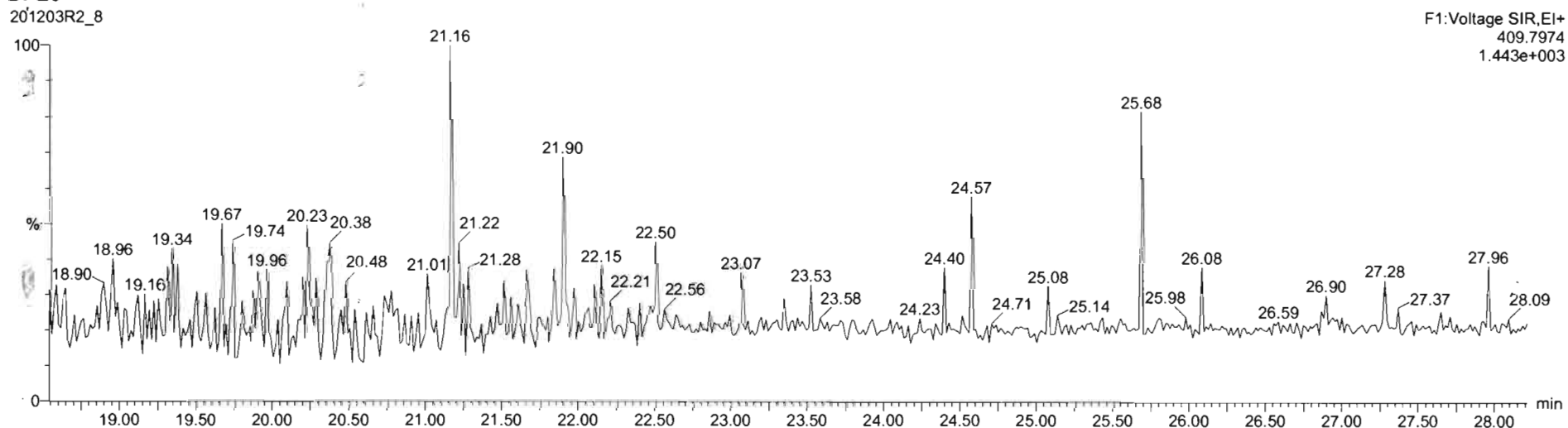


201203R2_8



DPE6

201203R2_8



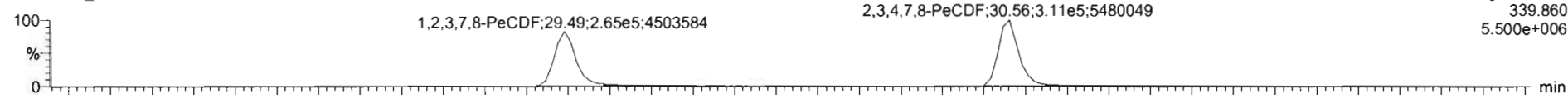
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Printed: Friday, December 04, 2020 11:48:25 Pacific Standard Time

Name: 201203R2_8, Date: 03-Dec-2020, Time: 16:09:07, ID: SS201203R2_1 1613 SSS 20K1907, Description: 1613 SSS 20K1907

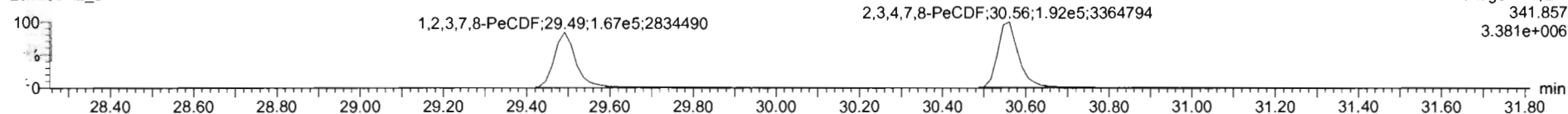
1,2,3,7,8-PeCDF

201203R2_8



F2: Voltage SIR, EI+
339.860
5.500e+006

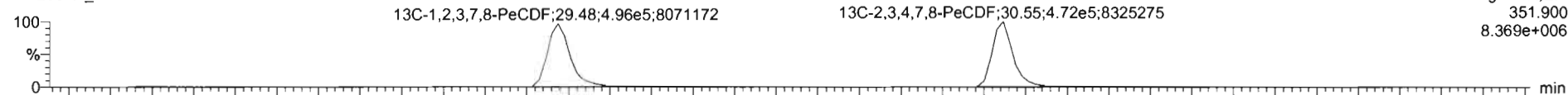
201203R2_8



F2: Voltage SIR, EI+
341.857
3.381e+006

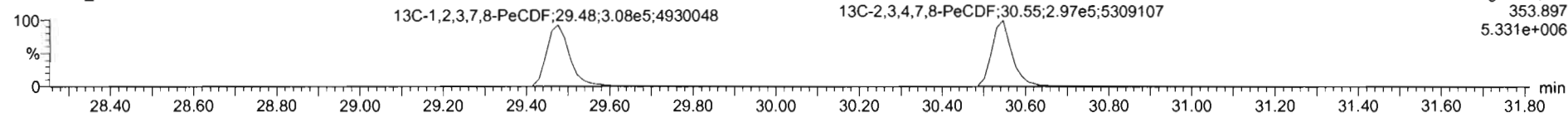
13C-1,2,3,7,8-PeCDF

201203R2_8



F2: Voltage SIR, EI+
351.900
8.369e+006

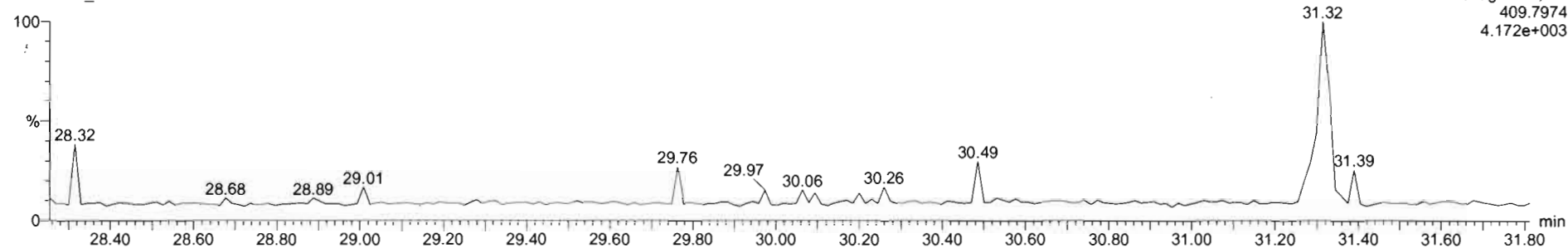
201203R2_8



F2: Voltage SIR, EI+
353.897
5.331e+006

DPE2

201203R2_8



F2: Voltage SIR, EI+
409.7974
4.172e+003

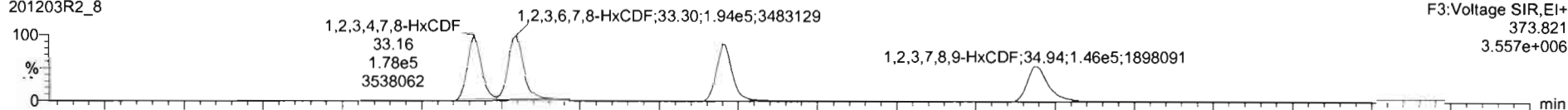
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Printed: Friday, December 04, 2020 11:48:25 Pacific Standard Time

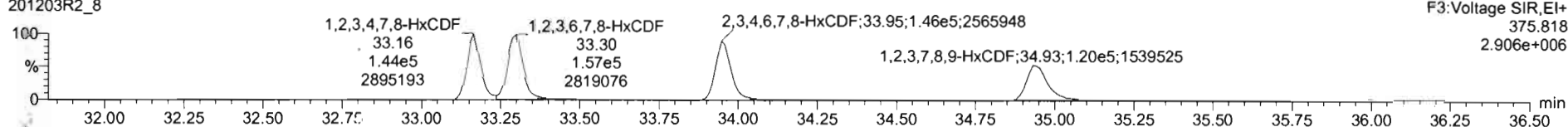
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1,2,3,4,7,8-HxCDF

201203R2_8

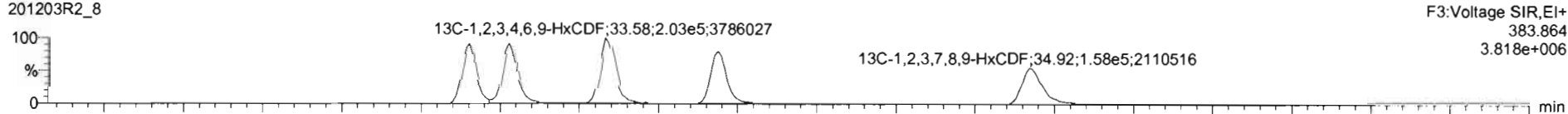


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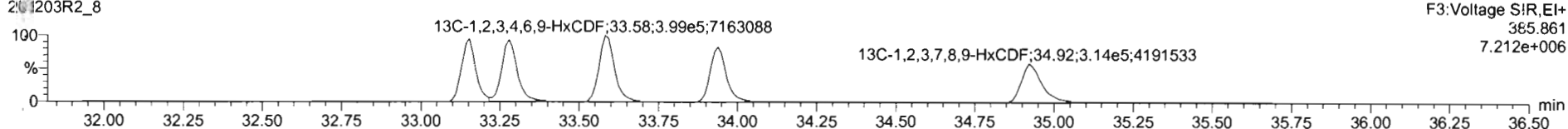


13C-1,2,3,4,7,8-HxCDF

201203R2_8

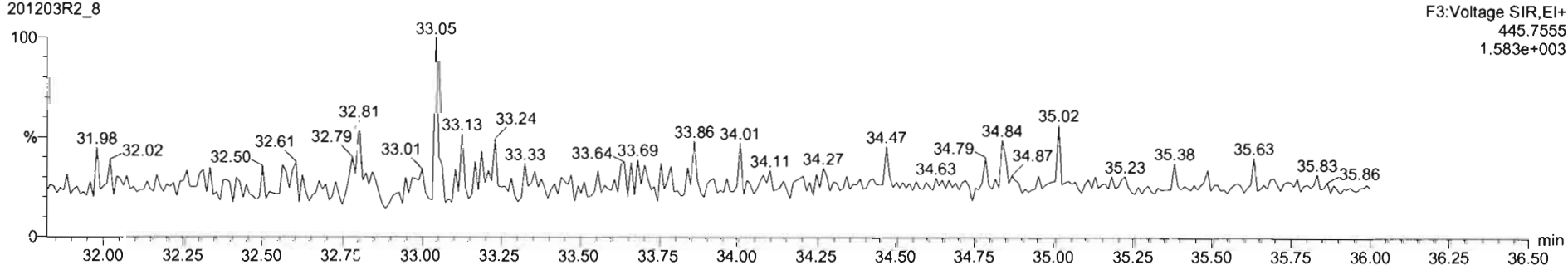


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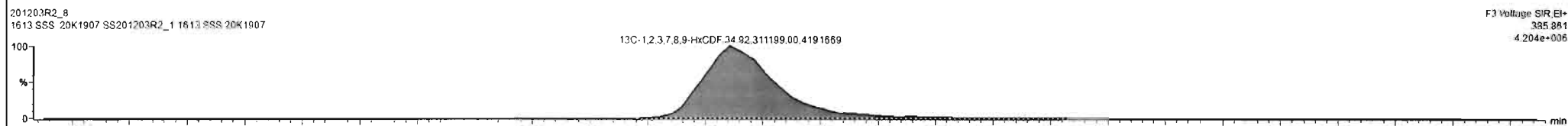
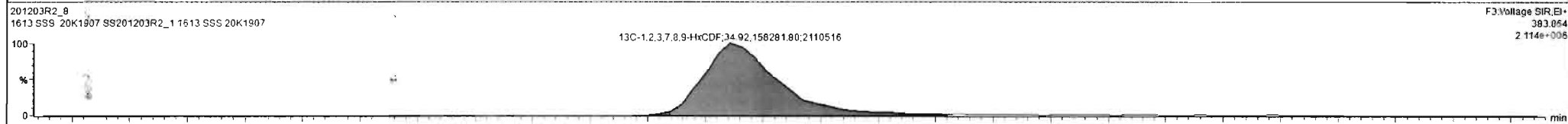
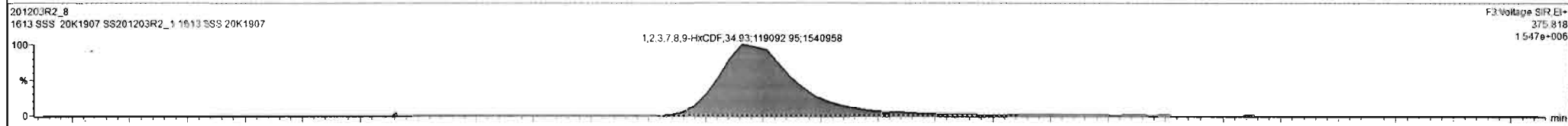
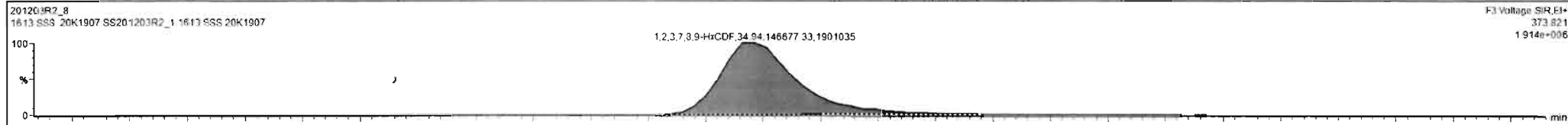
DPE3

201203R2_8



201203R2_8 - SS201203R2_1 1613 SSS 20K1907 - 1613 SSS 20K1907

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	0.126	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	40.81	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

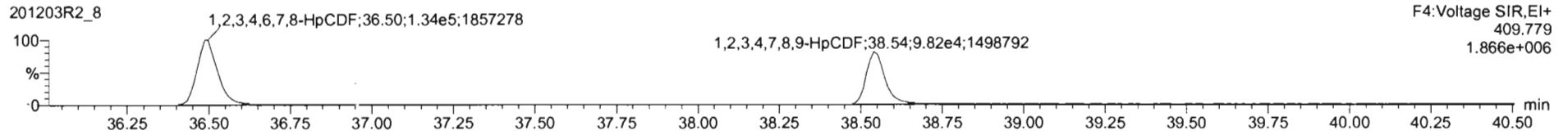
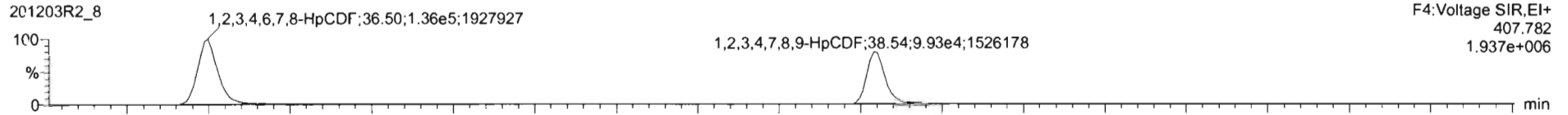


Dataset: U:\VG12.PRO\Results\201203R2\201203R2_8.qld

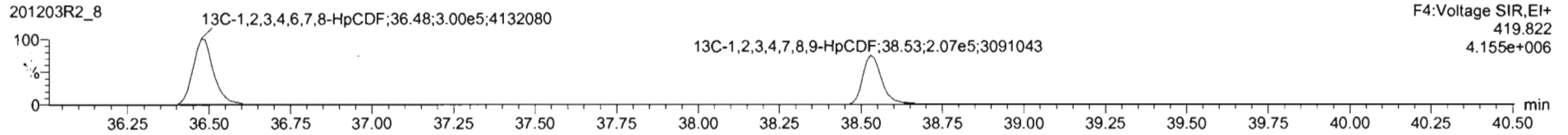
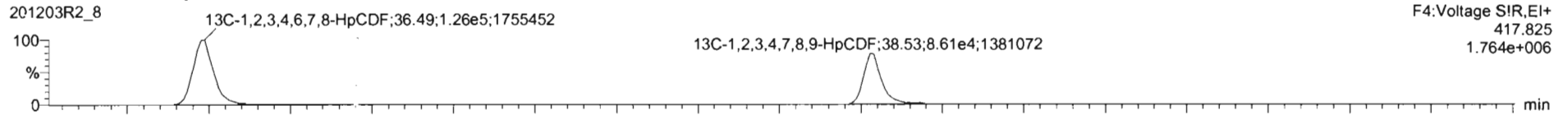
Last Altered: Friday, December 04, 2020 11:47:08 Pacific Standard Time
Printed: Friday, December 04, 2020 11:48:25 Pacific Standard Time

Name: 201203R2_8, Date: 03-Dec-2020, Time: 16:09:07, ID: SS201203R2_1 1613 SSS 20K1907, Description: 1613 SSS 20K1907

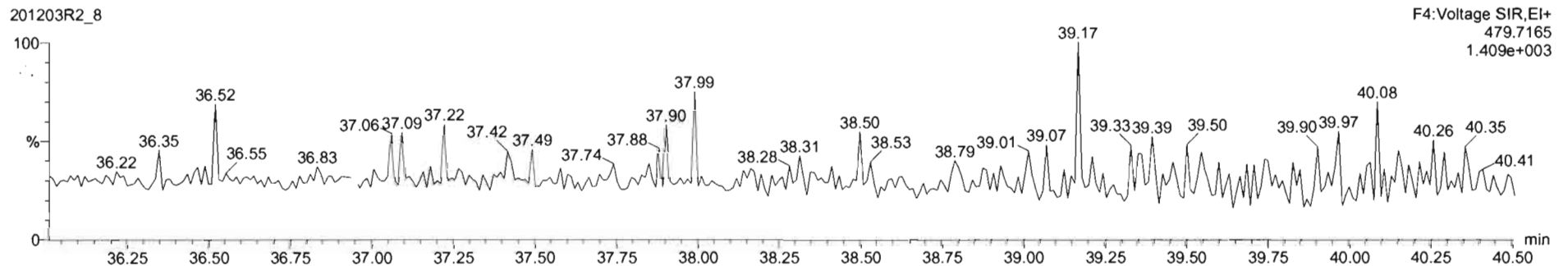
1,2,3,4,6,7,8-HpCDF



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



DPE4

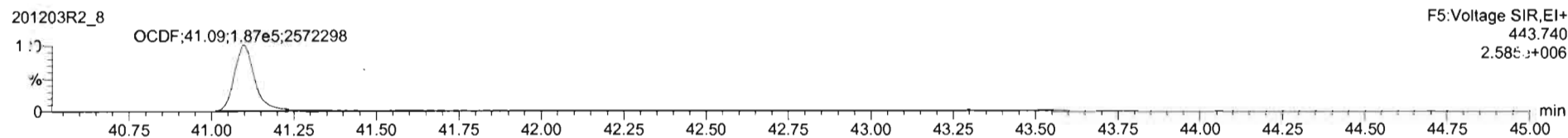
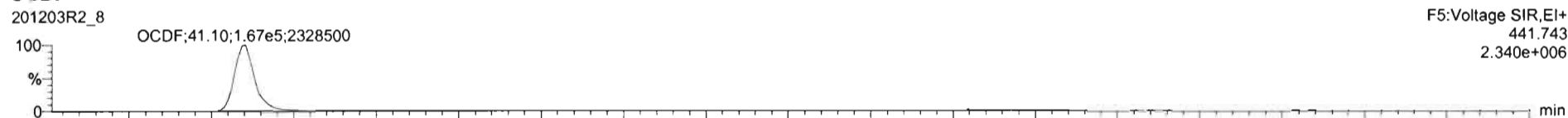


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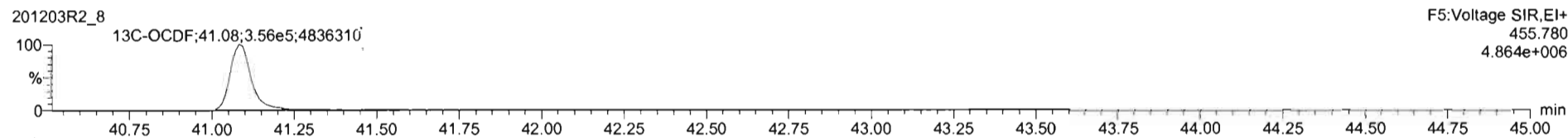
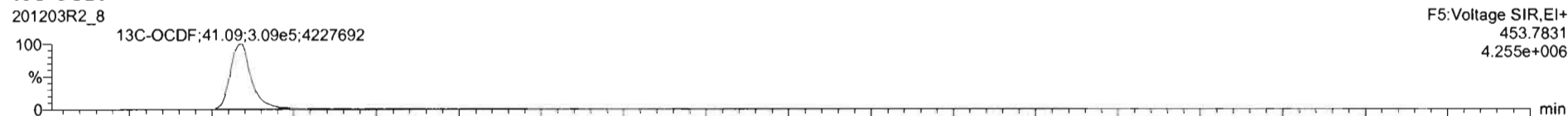
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Printed: Friday, December 04, 2020 11:48:25 Pacific Standard Time

Name: 201203R2_8, Date: 03-Dec-2020, Time: 16:09:07, ID: SS201203R2_1 1613 SSS 20K1907, Description: 1613 SSS 20K1907

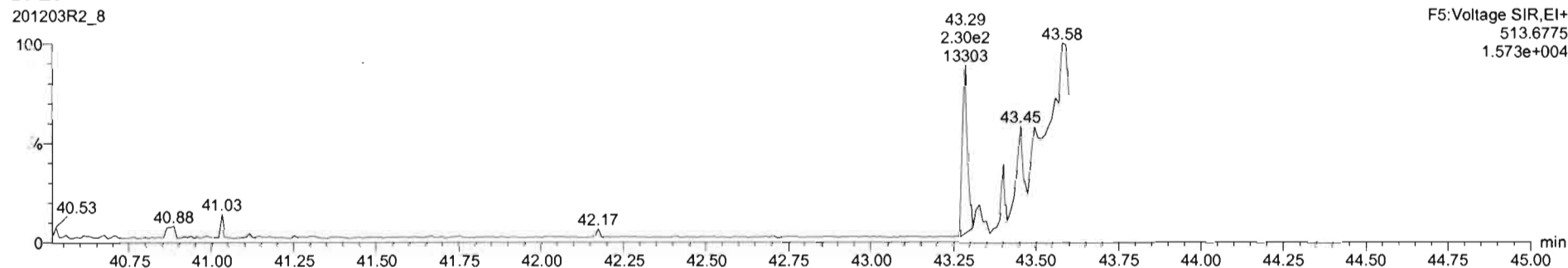
OCDF



13C-OCDF



DPE5



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

