June 09, 2021

Vista Work Order No. 2105037

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 May 05, 2021 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 Work Order No. 2105037
Case Narrative

Sample Condition on Receipt:

Two QC water 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:

<u>EPA Method 1613B</u>

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

<u>Holding Times</u>

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

<u>Quality Control</u>

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.

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2105037-01	SC-FB-2105030940	03-May-21 09:40	05-May-21 10:09	Amber Glass NM Bottle, 1L
				Amber Glass NM Bottle, 1L
2105037-02	SC-RB-2105030901	03-May-21 09:00	05-May-21 10:09	Amber Glass NM Bottle, 1L
				Amber Glass NM Bottle, 1L

ANALYTICAL RESULTS

| Matrix: | Aqueous | QC Batch: | B1E0193 | | Lab Sample: | B1E0193-BLK1 |
| Sample Size: | 1.00 L | Date Extracted: | 21-May-2021 13:59 | | Date Analyzed : | 07-Jun-21 19:58 Column: ZB-DIOXIN |

Analyte	Conc. (pg/L)	DL	EMPC	Qualifiers		Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.520			IS	13C-2,3,7,8-TCDD	72.9	25 - 164	
1,2,3,7,8-PeCDD	ND	1.01				13C-1,2,3,7,8-PeCDD	74.6	25 - 181	
1,2,3,4,7,8-HxCDD	ND	1.07				13C-1,2,3,4,7,8-HxCDD	66.6	32 - 141	
1,2,3,6,7,8-HxCDD	ND	1.11				13C-1,2,3,6,7,8-HxCDD	65.4	28 - 130	
1,2,3,7,8,9-HxCDD	ND	1.07				13C-1,2,3,7,8,9-HxCDD	64.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	1.01				13C-1,2,3,4,6,7,8-HpCDD	62.0	23 - 140	
OCDD	ND	2.28				13C-OCDD	36.9	17 - 157	
2,3,7,8-TCDF	ND	0.303				13C-2,3,7,8-TCDF	69.0	24 - 169	
1,2,3,7,8-PeCDF	ND	0.463				13C-1,2,3,7,8-PeCDF	64.3	24 - 185	
2,3,4,7,8-PeCDF	ND	0.438				13C-2,3,4,7,8-PeCDF	63.2	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.428				13C-1,2,3,4,7,8-HxCDF	67.1	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.392				13C-1,2,3,6,7,8-HxCDF	67.3	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.465				13C-2,3,4,6,7,8-HxCDF	72.8	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.631				13C-1,2,3,7,8,9-HxCDF	67.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.728				13C-1,2,3,4,6,7,8-HpCDF	66.9	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.756				13C-1,2,3,4,7,8,9-HpCDF	66.6	26 - 138	
OCDF	ND	0.702				13C-OCDF	57.7	17 - 157	
					CRS	37Cl-2,3,7,8-TCDD	99.1	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/L)

TEQMinWHO2005Dioxin	0.00

TOTALS

Total TCDD	ND	0.520
Total PeCDD	ND	1.01
Total HxCDD	ND	1.11
Total HpCDD	ND	1.01
Total TCDF	ND	0.303
Total PeCDF	ND	0.463
Total HxCDF	ND	0.631
Total HpCDF	ND	0.756

DL - Sample specifc estimated detection limit

EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit

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

Sample ID: **OPR**

Matrix: Aqueous	QC Batch: B1E0193	Lab Sample: B1E0193-BS1
Sample Size: 1.00 L	Date Extracted: 21-May-2021 13:59	Date Analyzed: 24-May-21 17:23 Column: ZB-DIOXIN

Analyte	Amt Found (pg/L)	Spike Amt	%R	Limits		Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	240	200	120	67 - 158	IS	13C-2,3,7,8-TCDD	91.0	20 - 175
1,2,3,7,8-PeCDD	1210	1000	121	70 - 142		13C-1,2,3,7,8-PeCDD	98.5	21 - 227
1,2,3,4,7,8-HxCDD	1240	1000	124	70 - 164		13C-1,2,3,4,7,8-HxCDD	81.7	21 - 193
1,2,3,6,7,8-HxCDD	1220	1000	122	76 - 134		13C-1,2,3,6,7,8-HxCDD	81.0	25 - 163
1,2,3,7,8,9-HxCDD	1240	1000	124	64 - 162		13C-1,2,3,7,8,9-HxCDD	80.4	21 - 193
1,2,3,4,6,7,8-HpCDD	1210	1000	121	70 - 140		13C-1,2,3,4,6,7,8-HpCDD	76.9	26 - 166
OCDD	2390	2000	119	78 - 144		13C-OCDD	62.6	13 - 199
2,3,7,8-TCDF	239	200	119	75 - 158		13C-2,3,7,8-TCDF	86.6	22 - 152
1,2,3,7,8-PeCDF	1200	1000	120	80 - 134		13C-1,2,3,7,8-PeCDF	70.8	21 - 192
2,3,4,7,8-PeCDF	1220	1000	122	68 - 160		13C-2,3,4,7,8-PeCDF	94.0	13 - 328
1,2,3,4,7,8-HxCDF	1200	1000	120	72 - 134		13C-1,2,3,4,7,8-HxCDF	85.8	19 - 202
1,2,3,6,7,8-HxCDF	1210	1000	121	84 - 130		13C-1,2,3,6,7,8-HxCDF	88.2	21 - 159
2,3,4,6,7,8-HxCDF	1220	1000	122	70 - 156		13C-2,3,4,6,7,8-HxCDF	87.5	22 - 176
1,2,3,7,8,9-HxCDF	1200	1000	120	78 - 130		13C-1,2,3,7,8,9-HxCDF	83.7	17 - 205
1,2,3,4,6,7,8-HpCDF	1190	1000	119	82 - 122		13C-1,2,3,4,6,7,8-HpCDF	84.2	21 - 158
1,2,3,4,7,8,9-HpCDF	1190	1000	119	78 - 138		13C-1,2,3,4,7,8,9-HpCDF	87.3	20 - 186
OCDF	2400	2000	120	63 - 170		13C-OCDF	72.2	13 - 199
					CRS	37Cl-2,3,7,8-TCDD	104	31 - 191

LCL-UCL - Lower control limit - upper control limit

Client Data

Name:	Anchor QEA, LLC
Project:	GascoSiltronic: US Moorings
Date Collected:	03-May-2021 9:40

Sample Data

Matrix:	QC Water
Sample Size:	1.00 L

Laboratory Data

Lab Sample:	2105037-01	Date Received:	05-May-2021 10:09
QC Batch:	B1E0193	Date Extracted:	21-May-2021 13:59
Date Analyzed :	07-Jun-21 20:43	Column: ZB-DIOXIN	

Analyte	Conc. (pg/L)	DL	EMPC	Qualifiers		Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.392			IS	13C-2,3,7,8-TCDD	87.7	25 - 164	
1,2,3,7,8-PeCDD	ND	0.692				13C-1,2,3,7,8-PeCDD	83.4	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.750				13C-1,2,3,4,7,8-HxCDD	75.9	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.846				13C-1,2,3,6,7,8-HxCDD	72.6	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.851				13C-1,2,3,7,8,9-HxCDD	73.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.771				13C-1,2,3,4,6,7,8-HpCDD	68.7	23 - 140	
OCDD	ND	2.89				13C-OCDD	55.5	17 - 157	
2,3,7,8-TCDF	ND	0.161				13C-2,3,7,8-TCDF	88.1	24 - 169	
1,2,3,7,8-PeCDF	ND	0.501				13C-1,2,3,7,8-PeCDF	82.0	24 - 185	
2,3,4,7,8-PeCDF	ND	0.436				13C-2,3,4,7,8-PeCDF	83.5	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.313				13C-1,2,3,4,7,8-HxCDF	79.0	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.276				13C-1,2,3,6,7,8-HxCDF	77.8	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.332				13C-2,3,4,6,7,8-HxCDF	81.2	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.442				13C-1,2,3,7,8,9-HxCDF	75.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.288				13C-1,2,3,4,6,7,8-HpCDF	71.5	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.320				13C-1,2,3,4,7,8,9-HpCDF	72.4	26 - 138	
OCDF	ND	0.639				13C-OCDF	59.9	17 - 157	
					CRS	37Cl-2,3,7,8-TCDD	103	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/L)

TEQMinWHO2005Dioxin	0.00

TOTALS

Analyte	Conc. (pg/L)	DL	EMPC
Total TCDD	ND	0.392	
Total PeCDD	ND		0.779
Total HxCDD	ND	0.851	
Total HpCDD	ND	0.771	
Total TCDF	ND	0.161	
Total PeCDF	ND	0.501	
Total HxCDF	ND	0.442	
Total HpCDF	ND	0.320	

DL - Sample specifc estimated detection limit

EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit

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

Client Data
Name:	Anchor QEA, LLC
Project:	GascoSiltronic: US Moorings
Date Collected:	03-May-2021 9:00

Sample Data
Matrix:	QC Water
Sample Size:	1.02 L

Laboratory Data
Lab Sample:	2105037-02	Date Received:	05-May-2021 10:09
QC Batch:	B1E0193	Date Extracted:	21-May-2021 13:59
Date Analyzed :	07-Jun-21 21:27	Column: ZB-DIOXIN	

Analyte	Conc. (pg/L)	DL	EMPC	Qualifiers		Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.370			IS	13C-2,3,7,8-TCDD	94.8	25 - 164	
1,2,3,7,8-PeCDD	ND	0.547				13C-1,2,3,7,8-PeCDD	86.1	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.633				13C-1,2,3,4,7,8-HxCDD	81.5	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.670				13C-1,2,3,6,7,8-HxCDD	78.3	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.645				13C-1,2,3,7,8,9-HxCDD	78.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.681				13C-1,2,3,4,6,7,8-HpCDD	73.1	23 - 140	
OCDD	ND	1.25				13C-OCDD	62.3	17 - 157	
2,3,7,8-TCDF	ND	0.297				13C-2,3,7,8-TCDF	95.8	24 - 169	
1,2,3,7,8-PeCDF	ND	0.496				13C-1,2,3,7,8-PeCDF	87.2	24 - 185	
2,3,4,7,8-PeCDF	ND	0.426				13C-2,3,4,7,8-PeCDF	82.5	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.169				13C-1,2,3,4,7,8-HxCDF	84.2	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.150				13C-1,2,3,6,7,8-HxCDF	86.6	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.175				13C-2,3,4,6,7,8-HxCDF	87.2	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.515			13C-1,2,3,7,8,9-HxCDF	81.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.351				13C-1,2,3,4,6,7,8-HpCDF	77.8	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.361				13C-1,2,3,4,7,8,9-HpCDF	80.2	26 - 138	
OCDF	ND	0.873				13C-OCDF	69.1	17 - 157	
					CRS	37Cl-2,3,7,8-TCDD	109	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/L)

TEQMinWHO2005Dioxin	0.00

TOTALS

Analyte	Conc. (pg/L)	DL	EMPC
Total TCDD	ND	0.370	
Total PeCDD	ND		0.495
Total HxCDD	ND	0.670	
Total HpCDD	ND	0.681	
Total TCDF	ND	0.297	
Total PeCDF	ND	0.496	
Total HxCDF	ND		0.515
Total HpCDF	ND	0.361	

DL - Sample specifc estimated detection limit

EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit

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

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank
Conc.	Concentration
CRS	Cleanup Recovery Standard
D	Dilution
DL	Detection Limit
E	The associated compound concentration exceeded the calibration range of the instrument
H	Recovery and/or RPD was outside laboratory acceptance limits
I	Chemical Interference
IS	Internal Standard
J	The amount detected is below the Reporting Limit/LOQ
LOD	Limit of Detection
LOQ	Limit of Quantitation
M	Estimated Maximum Possible Concentration (CA Region 2 projects only)
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
RL	For 537.1, the reported RLs are the MRLs.
TEQ	Toxic Equivalency, sum of the toxic equivalency factors (TEF) multiplied by the sample concentrations.
TEQMax	TEQ calculation that uses the detection limit as the concentration for non-detects
TEQMin	TEQ calculation that uses zero as the concentration for non-detects
TEQRisk	TEQ calculation that uses ½ the detection limit as the concentration for non-detects
U	Not Detected (specific projects only)
*	See Cover Letter

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

Vista Analytical Laboratory Certifications

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	21-023-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777-26
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2020018
Massachusetts Department of Environmental Protection	M-CA413
Michigan Department of Environmental Quality	9932
Minnesota Department of Health	1980678
New Hampshire Environmental Accreditation Program	207720
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Ohio Environmental Protection Agency	87778
Oregon Laboratory Accreditation Program	4042-016
Pennsylvania Department of Environmental Protection	017
Texas Commission on Environmental Quality	T104704189-21-12
Vermont Department of Health	VT-4042
Virginia Department of General Services	10769
Washington Department of Ecology	C584
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
Polychlorinated Dibenzodioxins in Ambient Air by GC/HRMS	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**
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613/1613B
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	EPA 537.1
Determination of Per- and Polyfluoroalkyl Substances in Drinking Water by Isotope Dilution Anion Exchange Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry	EPA 533
Perfluorooctanesulonate (PFOS) and Perfluorooctanoate (PFOA) - Method for Unfiltered Samples Using Solid Phase Extraction and Liquid Chromatography/Mass Spectrometry	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
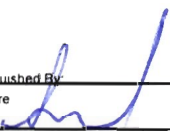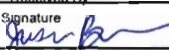
COC ID:	VISTA-20210503-151734

POC: # Delaney Peterson (360-715-2707)

1605 Cornwall Avenue, Bellingham, WA 98225

Project: GascoSiltronic: US Moorings

Client: NW Natural

Sample Custodian: CO

Lab: VISTA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
001	SC-FB-2105030940	FB	WQ	05/03/2021	9:40	2	☐				
								Dioxin/Furans	E1613B	30	4°C
002	SC-RB-2105030901	RB	WQ	05/03/2021	9:00	2	☐				
								Dioxin/Furans	E1613B	30	4°C

Comment:

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature	Signature	Signature	Signature	Signature	Signature
Print Name Sasha Norwood	Print Name Justin Bosero	Print Name	Print Name	Print Name	Print Name
Company Anchor QEA	Company VAL	Company	Company	Company	Company
Date/Time 5/4/21 0051c	Date/Time 05/05/21 1009	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

Date Printed: 5/3/2021

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Sample Log-In Checklist

Vista Analytical Laboratory

Vista Work Order #: _2105037_ **TAT** _Std_

Samples Arrival:	Date/Time 05/05/21 1009	Initials: B	Location: WR-2 Shelf/Rack: N/A

Delivered By:	FedEx (circled)	UPS	On Trac	GLS	DHL	Hand Delivered	Other

Preservation:	Ice (circled)		Blue Ice	Techni Ice	Dry Ice	None

Temp °C: 3.2 (uncorrected)	Probe used: Y / **N** (circled)	Thermometer ID: IR-3
Temp °C: 3.1 (corrected)		

	YES	NO	NA
Shipping Container(s) Intact?	✓		
Shipping Custody Seals Intact?	✓		
Airbill — Trk # 7736 2954 8579	✓		
Shipping Documentation Present?	✓		
Shipping Container — Vista — Client (circled) — Retain — Return (circled) — Dispose			
Chain of Custody / Sample Documentation Present?	✓		
Chain of Custody / Sample Documentation Complete?	✓		
Holding Time Acceptable?	✓		

Logged In:	Date/Time 05/05/21 14:06	Initials: JA	Location: WR-2 Shelf/Rack: B-1 , C-5

	YES	NO	NA
COC Anomaly/Sample Acceptance Form completed?		✓	✓

Comments:

CoC/Label Reconciliation Report WO# 2105037

LabNumber	CoC Sample ID		SampleAlias	Sample Date/Time		Container	BaseMatrix	Sample Comments
2105037-01	A SC-FB-2105030940	☑		03-May-21 09:40	☑	Amber Glass NM Bottle, 1L	Aqueous	
2105037-01	B SC-FB-2105030940	☑		03-May-21 09:40	☑	Amber Glass NM Bottle, 1L	Aqueous	
2105037-02	A SC-RB-2105030901	☑		03-May-21 09:00	☑	Amber Glass NM Bottle, 1L	Aqueous	
2105037-02	B SC-RB-2105030901	☑		03-May-21 09:00	☑	Amber Glass NM Bottle, 1L	Aqueous	

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

	Yes	No	NA	Comments:
Sample Container Intact?	✓			
Sample Custody Seals Intact?			✓	
Adequate Sample Volume?	✓			
Container Type Appropriate for Analysis(es)	✓			

Preservation Documented: Na2S2O3   Trizma   NH4CH3CO2   (None ALL)   Other

Verifed by/Date: ＿＿KA 05/05/2＿＿

EXTRACTION INFORMATION

<div align="center">

Process Sheet

Workorder: 2105037

</div>

Prep Expiration: 2022-05-03

Client: Anchor QEA, LLC

Workorder Due: 02-Jun-21 00:00

TAT: 28

Method: **1613 Full List**

Matrix: **Aqueous**

Client Matrix: QC Water

Also run: **Percent Solids**

Prep Batch: _B/E0193_

Prep Data Entered: _TC 05/24/21_
Date and Initials

Initial Sequence: _S/E0056_

LabSampleID	A/B	Prep Rec	Spike Rec	ClientSampleID	Date Received	Location	Comments
2105037-01	A ↕	☑	☑	SC-FB-2105030940	05-May-21 10:09	WR-2 B-1	
2105037-02		☑	☑	SC-RB-2105030901	05-May-21 10:09	WR-2 B-1	

Pre-Prep Check Out: _OF 05/17/21_

Pre-Prep Check In: _OF 05/17/21_

Prep Check Out: _05/22/21_

Prep Check In: _05/22/21 Emphy_

Prep Reconciled Initals/Date: _05/22/21_

Spike Reconciled Initals/Date: _AM 05/22/21_

VialBoxID: _Sour_

<div align="center">

Page 1 of 1

</div>

PREPARATION BENCH SHEET

Matrix: Aqueous

Method: 1613 Full List

Method: 1613 2.3.7.8-TCDD Only

B1E0193

Chemist: _____

Prep Date/Time: 21-May-21

Prepared using: HRMS - Separatory Funnel

VISTA Sample ID	Bottle + Sample (g)	Bottle Only (g)	Sample Amt. (L)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
B1E0193-BLK1	NA	NA	(1.00)	AX NM 05/22/21	AX HS 05/22/21	N/A	AX 05/22/21	AX 05/22/21	TC 05/24/21	TC HS 05/24/21
B1E0193-BS1	↓	↓	(1.00)							
2105037-01	1514.52	512.84	1001.68							
2105037-02	1539.70	514.38	1024.32						↓	
2105101-01	1515.58	518.76	0.996.82						N/A	
2105101-02	1544.46	518.58	1025.88						↓	
2105108-01 (7)	1576.02	518.34	1057.68							
2105109-01 (A)	1564.44	518.22	1046.22						TC 05/24/21	
2105110-01	1541.94	515.92	1026.02							
2105133-01 (7)	1492.74	521.04	0.7170	↓	↓	↓	↓	↓	↓	↓

(7) Sample emulsed AX 05/22/21

(A) Yellow band on column AX 05/22/21

IS Name	10ML NS Name (4)	CRS Name (1)	RS Name (3)	Cycle Time	APP: (SEFUND) SOX SDS	Check Out: Chemist/Date: AX 05/22/21
PCDD/F 21C0101 (9)	PCDD/F 20F0107, 10ML	PCDD/F 20H2501, 10ML	PCDD/F 20H2502, 10μl	Start Date/Time: NA	SOLV: DCM	Check In: Chemist/Date: Empty
PCB	PCB	PCB	PCB	Stop Date/Time: NA	Other NA	
PAH	PAH	PAH	PAH		Final Volume(s) C14 20ML	Balance ID: HRMS-10

Comments: Assume 1 g = 1 mL

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 Centrifuged to remove particulate

6 = Added boiling chips to seperatory funnel

7 = Sample emulsed during shakeout

Page 1 of 1

Batch: B1E0193

Matrix: Aqueous

LabNumber	WetWeight Initial (L)	% Solids (Extraction Solids)	DryWeight Initial (L)	Final (uL)	Extracted	Ext By	Spike	SpikeAmount (uL)	ClientMatrix	Analysis
2105037-01	1.00168	NA	NA	20	21-May-21 13:59	JG			QC Water	1613 Full List
2105037-02	1.02432			20	21-May-21 13:59	JG			QC Water	1613 Full List
2105101-01	0.99682			20	21-May-21 13:59	JG			Drinking Water	1613 2,3,7,8-TCDD Only
2105101-02	1.02588			20	21-May-21 13:59	JG			Drinking Water	1613 2,3,7,8-TCDD Only
2105108-01	1.05768			20	21-May-21 13:59	JG			Ocean Water	1613 Full List
2105109-01	1.04622			20	21-May-21 13:59	JG			Wastewater	1613 Full List
2105110-01	1.02602			20	21-May-21 13:59	JG			Wastewater	1613 Full List
2105133-01	0.9717			20	21-May-21 13:59	JG			Wastewater	1613 2,3,7,8-TCDD Only
B1E0193-BLK1	1			20	21-May-21 13:59	JG				QC
B1E0193-BS1	1			20	21-May-21 13:59	JG	20F0107	10		QC

All bolded data on report verified against written benchsheet by (initial/date)____TC 05/24/21____

Moisture/ Percent Solids

D2216-90   BATCH ID B1E0155

Analyst: OF	Test Code: %Moist/%Solids	Data Entry Verified by:
Analyte:	Units: %	(Initial and Date) _TC 05/24/21_
Dried at 110°C+/-5°C		
Oven ID: 01 02		

Inst **HRMS-10**

Date/Time IN: Date/Time OUT
05/17/21 1614   05/20/21 1519

	B	C	D	E	F	G	H	I	K	L	M	N	O	P
				Intial and Date:	OF 05/17/21	OF 05/20/21			OF 05/17/21		N/A	N/A	OF 05/17/21
Particle Size	SampID		SampType	Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	Visual Inspection	Cl-	pH Before	pH After	Acid Added	Sample Homogenized*
	2105037-01		Sample	1.2800	14.7400	1.2800	0.0000	0.00	CLEAR	0	4	N/A	N/A	X
	2105037-02		Sample	1.2800	11.6200	1.2800	0.0000	0.00	CLEAR	0	4	N/A	N/A	X

*Sample homogenized in sample container unless otherwise noted.

Moisture/ Percent Solids

D2216-90   BATCH ID   B1E0155

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

Inst HRMS-10

Date/Time IN: 05/17/21 1614
Date/Time OUT: 05/20/21 1519

	B	C	D	E	F	G	H	I	K	L	M	N	O	P
				Intial and Date:	OF 05/17/21	OF 05/20/21			OF 05/17/21		NA		OF 05/17/21
Particle Size	SampID		SampType	Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	Visual Inspection	Cl-	pH Before	pH After	Acid Added	Sample Homogenized*
	2105037-01	A	Sample	1.28	14.74	1.28			clear	0	4		NA	X
	2105037-02	↓	Sample	1.28	11.62	*1.28 1.28			↓	0	4		NA	x

*Sample homogenized in sample container unless otherwise noted.

* OF 05/20/21

SAMPLE DATA – EPA METHOD 1613

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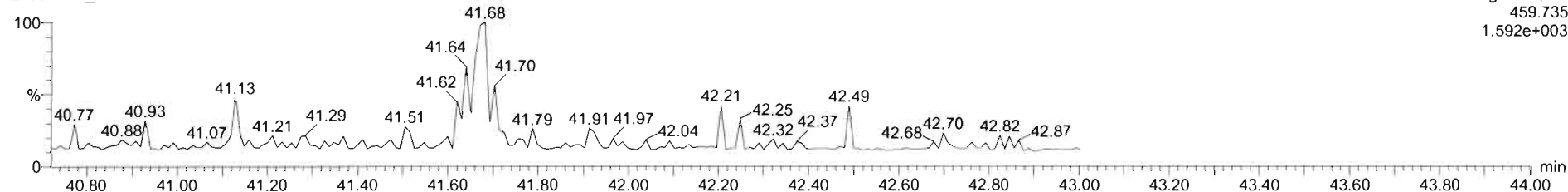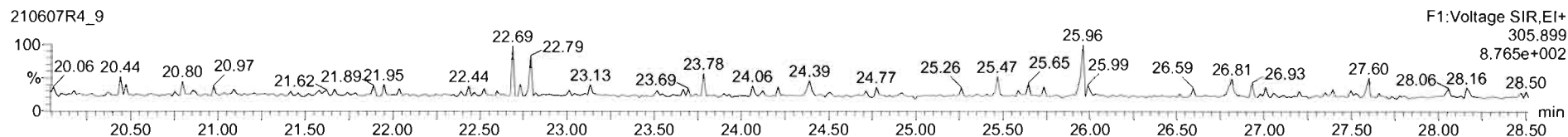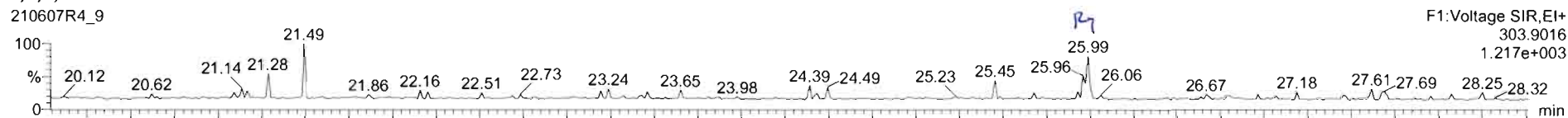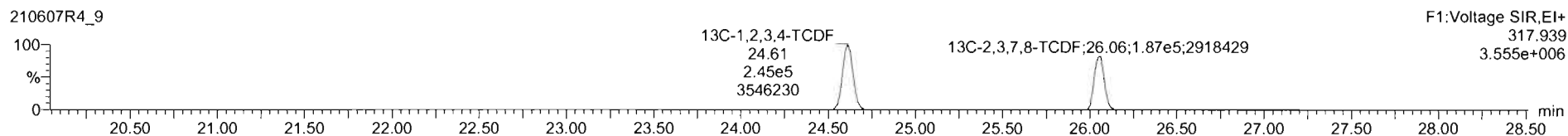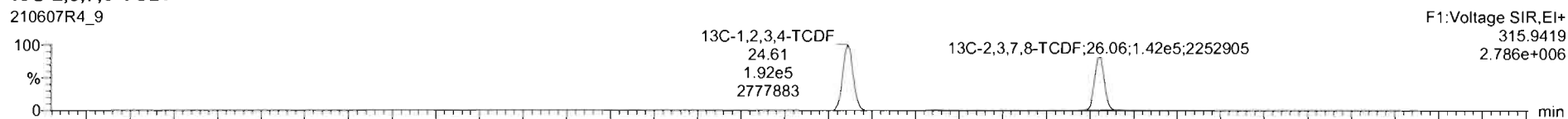Printed: Tuesday, June 08, 2021 13:44:32 Pacific Daylight Time

HN 06/08/21

CT 06/09/2021

Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210607R4_9, Date: 07-Jun-2021, Time: 19:58:57, ID: B1E0193-BLK1 Method Blank 1, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.929	1.000	26.713		1.001				0.520	
2	2 1,2,3,7,8-PeCDD			NO	0.826	1.000	31.151		1.001				1.01	
3	3 1,2,3,4,7,8-HxCDD			NO	0.972	1.000	34.508		1.001				1.07	
4	4 1,2,3,6,7,8-HxCDD			NO	0.877	1.000	34.644		1.001				1.11	
5	5 1,2,3,7,8,9-HxCDD			NO	0.874	1.000	34.927		1.000				1.07	
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.899	1.000	38.290		1.000				1.01	
7	7 OCDD			NO	0.852	1.000	41.357		1.000				2.28	
8	8 2,3,7,8-TCDF			NO	0.747	1.000	26.063		1.000				0.303	
9	9 1,2,3,7,8-PeCDF			NO	0.877	1.000	29.932		1.000				0.463	
10	10 2,3,4,7,8-PeCDF			NO	0.962	1.000	30.961		1.001				0.438	
11	11 1,2,3,4,7,8-HxCDF			NO	0.920	1.000	33.555		1.000				0.428	
12	12 1,2,3,6,7,8-HxCDF			NO	0.936	1.000	33.712		1.001				0.392	
13	13 2,3,4,6,7,8-HxCDF			NO	0.973	1.000	34.403		1.001				0.465	
14	14 1,2,3,7,8,9-HxCDF			NO	0.940	1.000	35.482		1.000				0.631	
15	15 1,2,3,4,6,7,8-HpCDF			NO	1.05	1.000	37.098		1.000				0.728	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.05	1.000	38.949		1.000				0.756	
17	17 OCDF			NO	0.771	1.000	41.681		1.000				0.702	
18	18 13C-2,3,7,8-TCDD	2.20e5	0.78	NO	1.10	1.000	26.655	26.68	1.027	1.028	1457.4	72.9	2.36	
19	19 13C-1,2,3,7,8-PeCDD	1.76e5	0.63	NO	0.864	1.000	31.034	31.12	1.196	1.199	1492.3	74.6	3.17	
20	20 13C-1,2,3,4,7,8-HxCDD	1.17e5	1.29	NO	0.746	1.000	34.475	34.49	1.014	1.014	1332.2	66.6	5.36	
21	21 13C-1,2,3,6,7,8-HxCDD	1.30e5	1.27	NO	0.847	1.000	34.594	34.62	1.017	1.018	1308.9	65.4	4.72	
22	22 13C-1,2,3,7,8,9-HxCDD	1.31e5	1.29	NO	0.868	1.000	34.893	34.92	1.026	1.027	1282.6	64.1	4.60	
23	23 13C-1,2,3,4,6,7,8-HpCDD	9.69e4	1.05	NO	0.664	1.000	38.242	38.28	1.125	1.126	1239.5	62.0	6.37	
24	24 13C-OCDD	9.73e4	0.87	NO	0.561	1.000	41.191	41.35	1.211	1.216	1474.6	36.9	6.78	
25	25 13C-2,3,7,8-TCDF	3.29e5	0.76	NO	1.09	1.000	26.045	26.06	1.003	1.004	1379.6	69.0	2.36	
26	26 13C-1,2,3,7,8-PeCDF	2.27e5	1.64	NO	0.809	1.000	29.764	29.93	1.147	1.153	1286.8	64.3	3.89	
27	27 13C-2,3,4,7,8-PeCDF	2.22e5	1.65	NO	0.803	1.000	30.725	30.94	1.184	1.192	1263.9	63.2	3.93	
28	28 13C-1,2,3,4,7,8-HxCDF	1.60e5	0.48	NO	1.01	1.000	33.546	33.54	0.987	0.987	1342.7	67.1	6.72	
29	29 13C-1,2,3,6,7,8-HxCDF	1.70e5	0.50	NO	1.07	1.000	33.675	33.69	0.990	0.991	1345.2	67.3	6.33	
30	30 13C-2,3,4,6,7,8-HxCDF	1.56e5	0.49	NO	0.910	1.000	34.366	34.38	1.011	1.011	1455.5	72.8	7.47	
31	31 13C-1,2,3,7,8,9-HxCDF	1.31e5	0.48	NO	0.828	1.000	35.444	35.47	1.042	1.043	1343.4	67.2	8.20	

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Printed: Tuesday, June 08, 2021 13:44:32 Pacific Daylight Time

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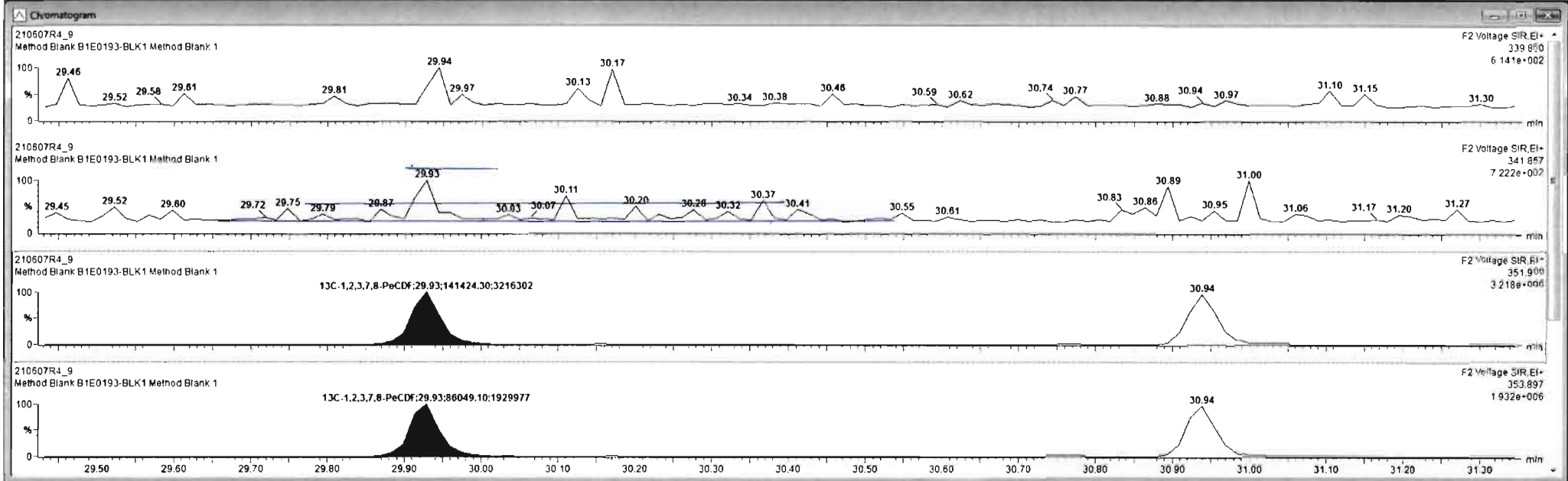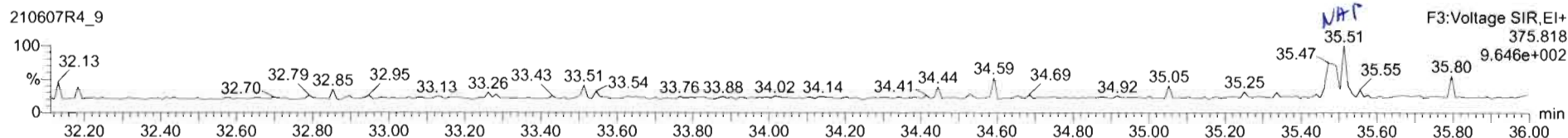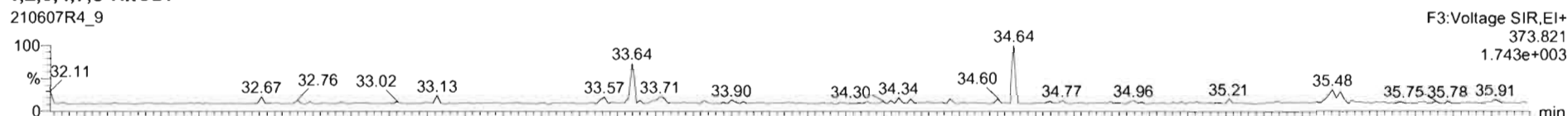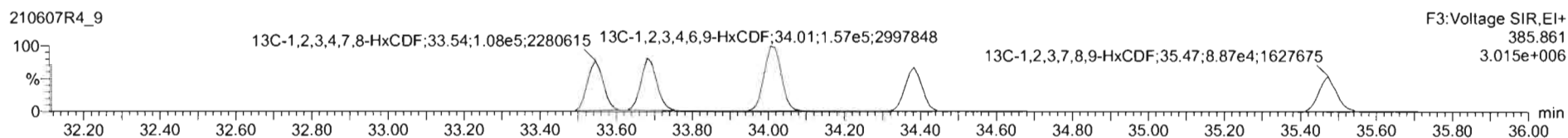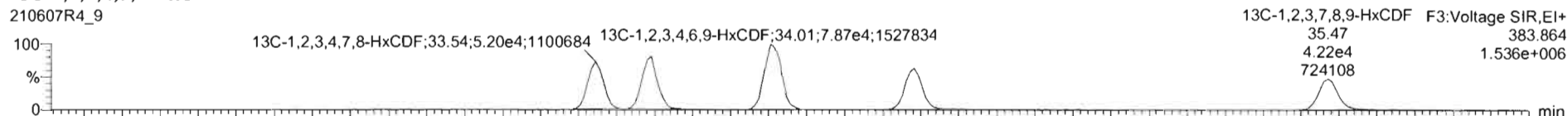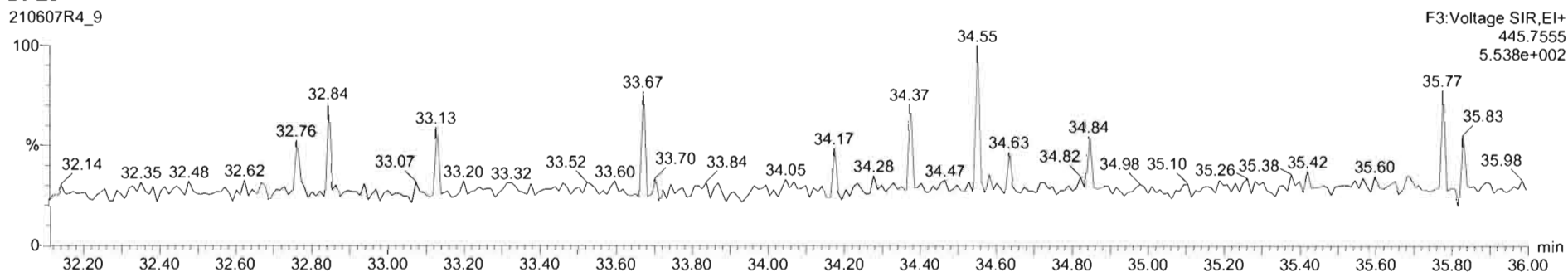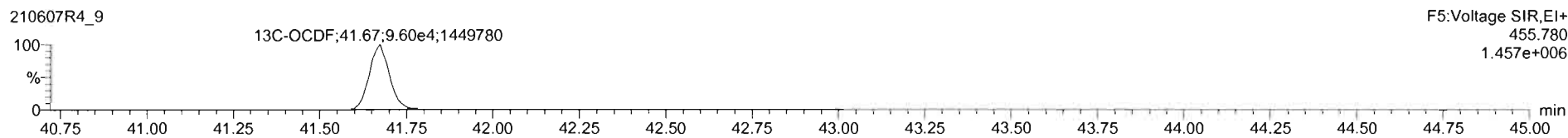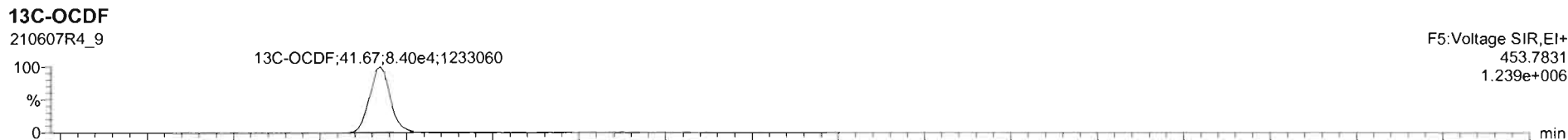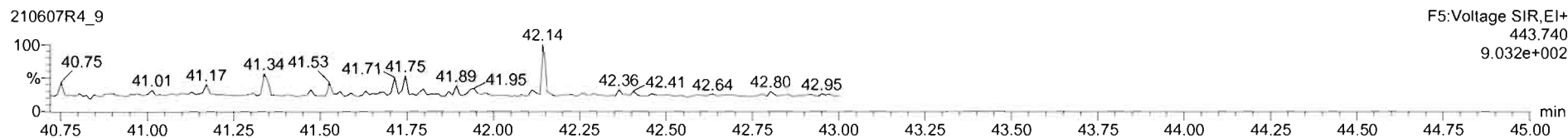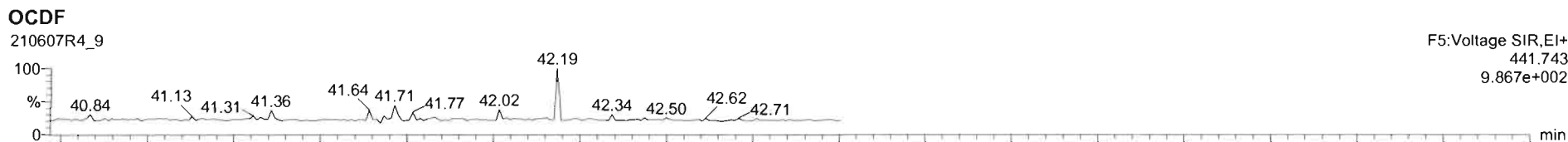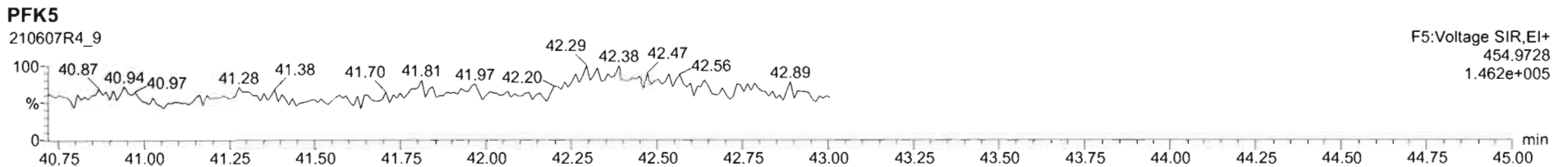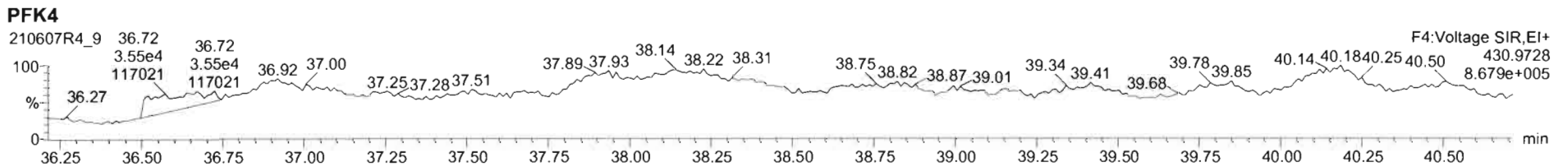
	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.04e5	0.42	NO	0.661	1.000	37.052	37.08	1.090	1.090	1337.1	66.9	7.63	
33	33 13C-1,2,3,4,7,8,9-HpCDF	8.87e4	0.40	NO	0.566	1.000	38.814	38.94	1.141	1.145	1332.3	66.6	8.91	
34	34 13C-OCDF	1.80e5	0.88	NO	0.663	1.000	41.578	41.67	1.223	1.225	2309.7	57.7	6.15	
35	35 37Cl-2,3,7,8-TCDD	2.24e5			2.07	1.000	26.855	26.70	1.035	1.028	792.57	99.1	0.376	
36	36 13C-1,2,3,4-TCDD	2.74e5	0.77	NO	1.00	1.000	26.070	25.96	1.000	1.000	2000.0	100	2.61	
37	37 13C-1,2,3,4-TCDF	4.37e5	0.78	NO	1.00	1.000	24.760	24.61	1.000	1.000	2000.0	100	2.58	
38	38 13C-1,2,3,4,6,9-HxCDF	2.35e5	0.50	NO	1.00	1.000	34.040	34.01	1.000	1.000	2000.0	100	6.79	
39	39 Total Tetra-Dioxins				0.929	1.000	24.620		0.000				0.285	
40	40 Total Penta-Dioxins				0.826	1.000	29.960		0.000				0.458	
41	41 Total Hexa-Dioxins				0.877	1.000	33.635		0.000				0.782	
42	42 Total Hepta-Dioxins				0.899	1.000	37.640		0.000				0.650	
43	43 Total Tetra-Furans				0.747	1.000	23.610		0.000				0.136	
44	44 1st Func. Penta-Furans				0.877	1.000	27.620		0.000				0.0708	
45	45 Total Penta-Furans				0.877	1.000	29.275		0.000				0.137	
46	46 Total Hexa-Furans				0.973	1.000	33.555		0.000				0.331	
47	47 Total Hepta-Furans				1.05	1.000	37.835		0.000				0.470	

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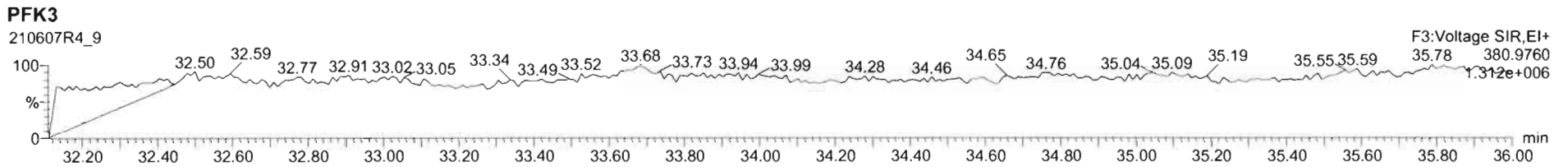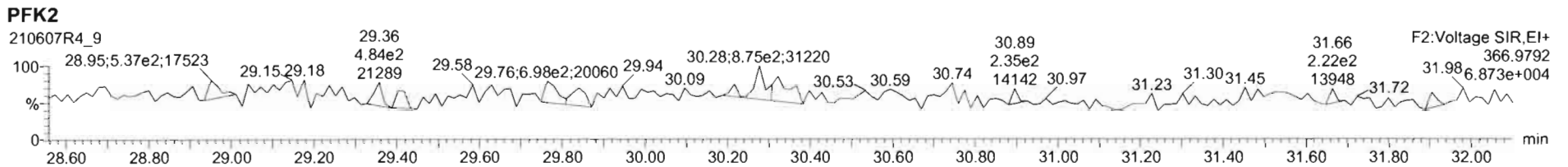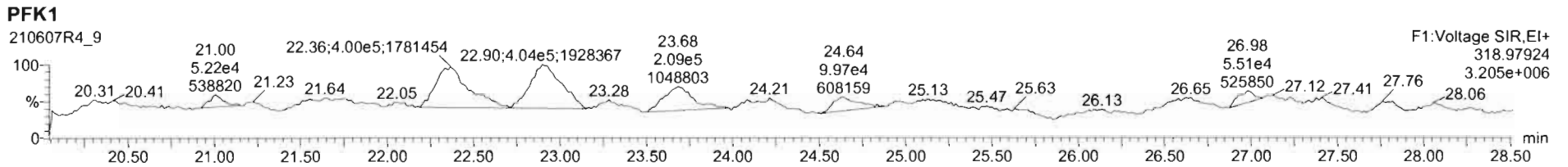Printed: Tuesday, June 08, 2021 13:44:32 Pacific Daylight Time

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Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210607R4_9, Date: 07-Jun-2021, Time: 19:58:57, ID: B1E0193-BLK1 Method Blank 1, Description: Method Blank

Tetra-Dioxins

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

Penta-Dioxins

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

Hexa-Dioxins

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

Hepta-Dioxins

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

Tetra-Furans

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

Penta-Furans function 1

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

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Name: 210607R4_9, Date: 07-Jun-2021, Time: 19:58:57, ID: B1E0193-BLK1 Method Blank 1, Description: Method Blank

Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

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

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_9.qld

Last Altered: Tuesday, June 08, 2021 11:36:14 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:36:26 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26
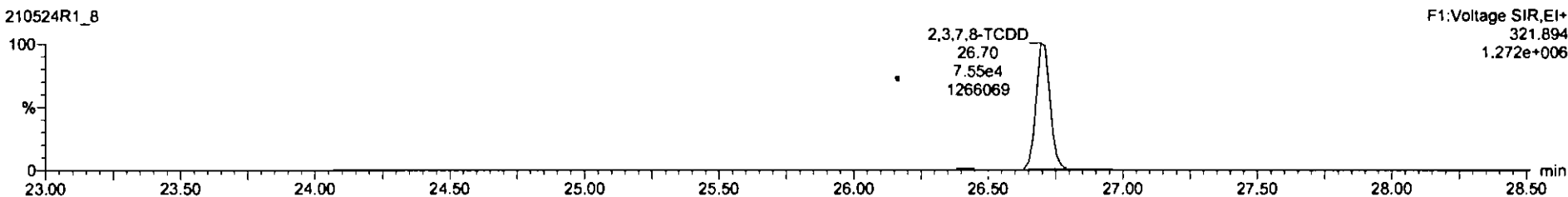
Name: 210607R4_9, Date: 07-Jun-2021, Time: 19:58:57, ID: B1E0193-BLK1 Method Blank 1, Description: Method Blank

2,3,7,8-TCDD

13C-2,3,7,8-TCDD
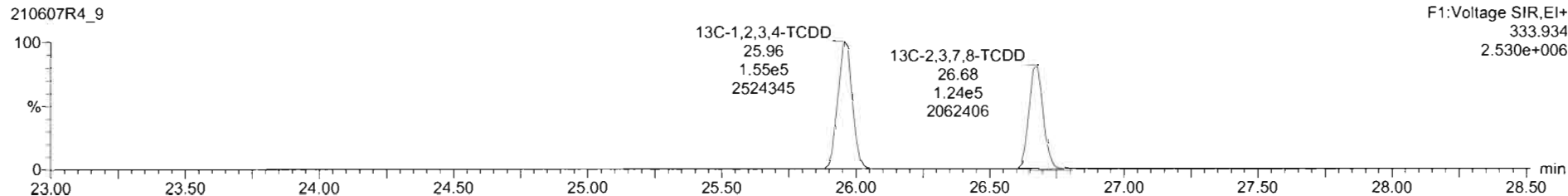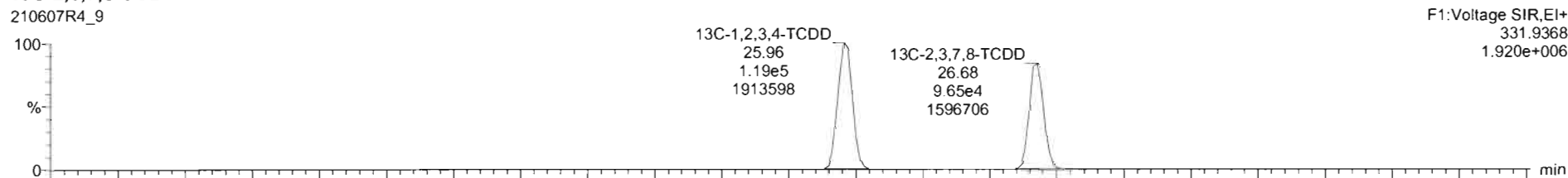
Dataset: U:\VG12.PRO\Results\210607R4\210607R4_9.qld

Last Altered: Tuesday, June 08, 2021 11:36:14 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:36:26 Pacific Daylight Time

Name: 210607R4_9, Date: 07-Jun-2021, Time: 19:58:57, ID: B1E0193-BLK1 Method Blank 1, Description: Method Blank

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

210607R4_9

F1:Voltage SIR,EI+
327.884
3.731e+006

37Cl-2,3,7,8-TCDD
26.70
2.24e5
3719509

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

210607R4_9

F1:Voltage SIR,EI+
331.9368
1.920e+006

13C-1,2,3,4-TCDD
25.96
1.19e5
1913598

13C-2,3,7,8-TCDD
26.68
9.65e4
1596706

210607R4_9

F1:Voltage SIR,EI+
333.934
2.530e+006

13C-1,2,3,4-TCDD
25.96
1.55e5
2524345

13C-2,3,7,8-TCDD
26.68
1.24e5
2062406

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_9.qld

Last Altered: Tuesday, June 08, 2021 11:36:14 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:36:26 Pacific Daylight Time

Name: 210607R4_9, Date: 07-Jun-2021, Time: 19:58:57, ID: B1E0193-BLK1 Method Blank 1, Description: Method Blank

1,2,3,7,8-PeCDD

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

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_9.qld

Last Altered: Tuesday, June 08, 2021 11:36:14 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:36:26 Pacific Daylight Time

HN06/08/21

Name: 210607R4_9, Date: 07-Jun-2021, Time: 19:58:57, ID: B1E0193-BLK1 Method Blank 1, Description: Method Blank

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

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

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_9.qld

Last Altered: Tuesday, June 08, 2021 11:36:14 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:36:26 Pacific Daylight Time

Name: 210607R4_9, Date: 07-Jun-2021, Time: 19:58:57, ID: B1E0193-BLK1 Method Blank 1, Description: Method Blank

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

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

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_9.qld

Last Altered: Tuesday, June 08, 2021 11:36:14 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:36:26 Pacific Daylight Time

Name: 210607R4_9, Date: 07-Jun-2021, Time: 19:58:57, ID: B1E0193-BLK1 Method Blank 1, Description: Method Blank

OCDD

13C-OCDD

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_9.qld

Last Altered: Tuesday, June 08, 2021 11:36:14 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:36:26 Pacific Daylight Time

Name: 210607R4_9, Date: 07-Jun-2021, Time: 19:58:57, ID: B1E0193-BLK1 Method Blank 1, Description: Method Blank

2,3,7,8-TCDF

13C-2,3,7,8-TCDF
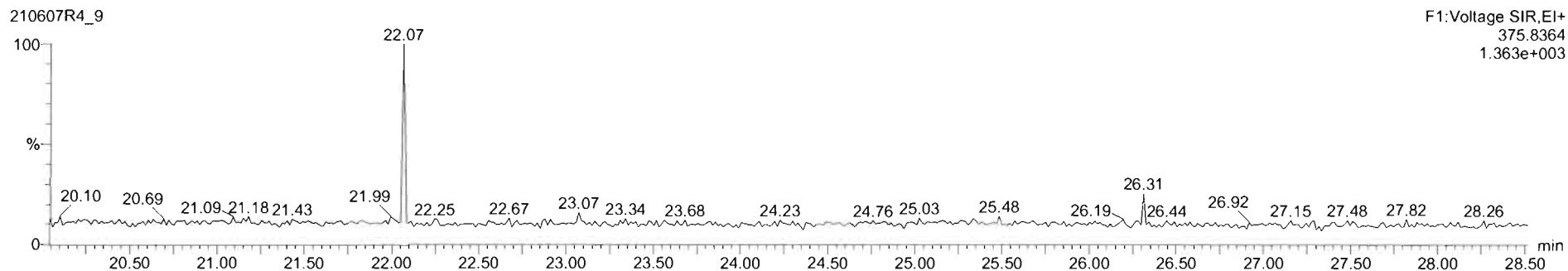
DPE1

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_9.qld

Last Altered: Tuesday, June 08, 2021 11:36:14 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:36:26 Pacific Daylight Time

Name: 210607R4_9, Date: 07-Jun-2021, Time: 19:58:57, ID: B1E0193-BLK1 Method Blank 1, Description: Method Blank

1st Func. Penta-Furans
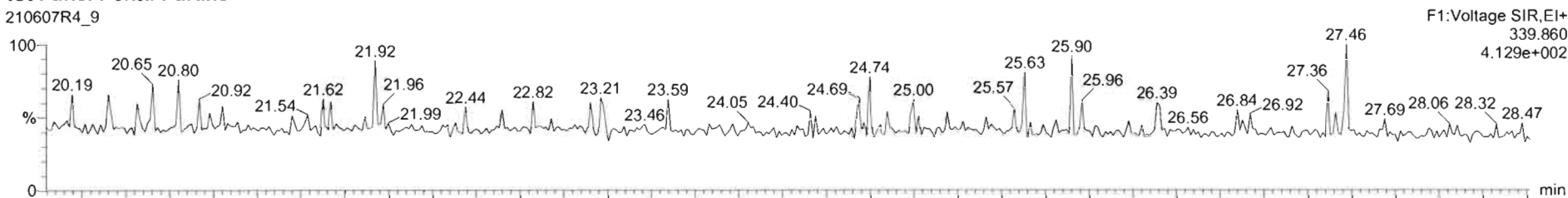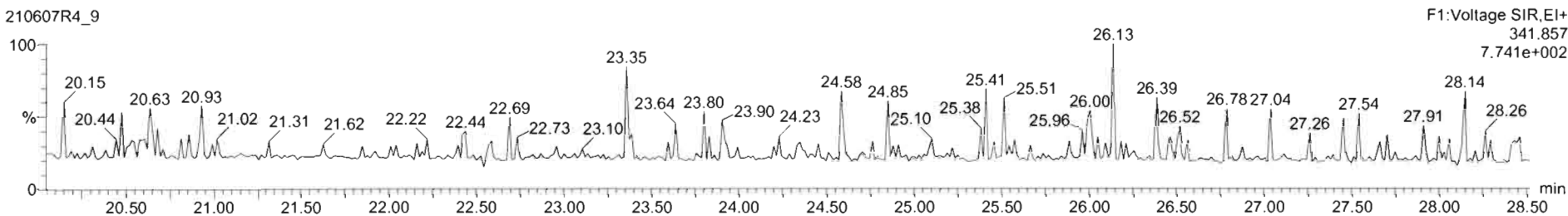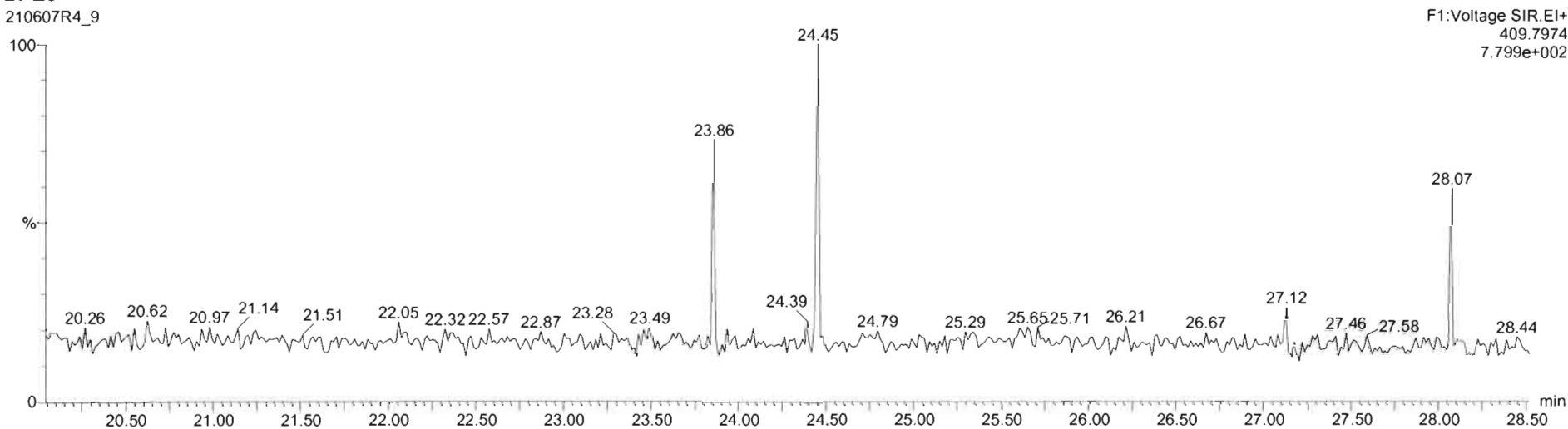
DPE6

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_9.qld

Last Altered: Tuesday, June 08, 2021 11:36:14 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:36:26 Pacific Daylight Time

Name: 210607R4_9, Date: 07-Jun-2021, Time: 19:58:57, ID: B1E0193-BLK1 Method Blank 1, Description: Method Blank

1,2,3,7,8-PeCDF

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

DPE2

File Edit View Display Processing Window Help
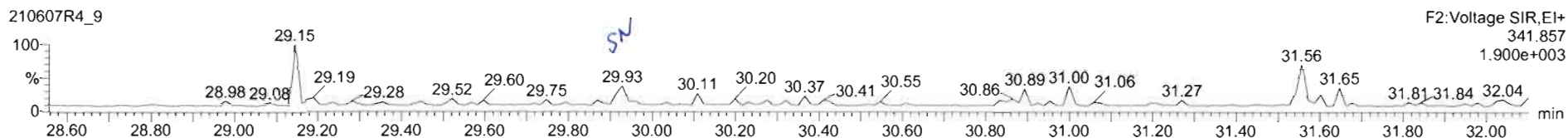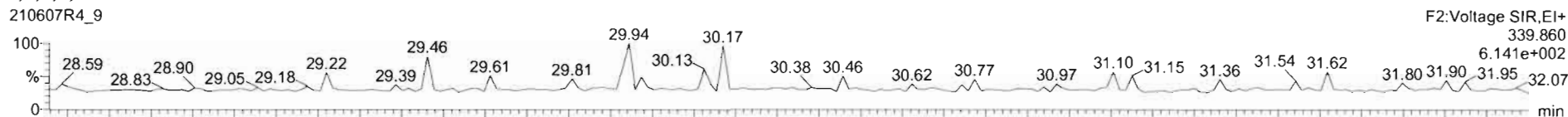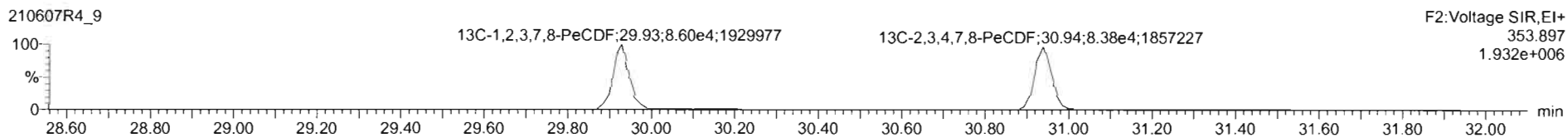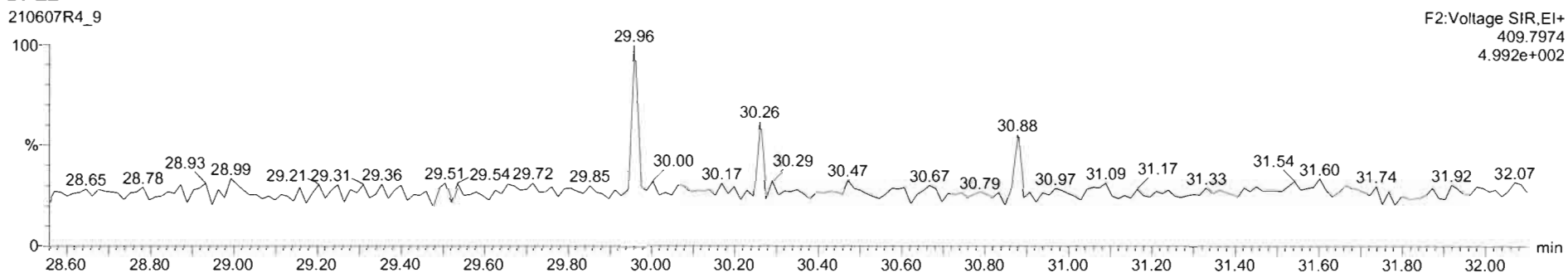
210607R4_9 - B1E0193-BLK1 Method Blank 1 - Method Blank

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
45	Total Penta-Furans				0.8771	1.000					0.137	
46	Total Hexa-Furans				0.9725	1.000					0.331	
47	Total Hepta-Furans				1.0481	1.000					0.470	
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											
52	PFK5											
53	DPE1											
54	DPE2											
55	DPE3											
56	DPE4											
57	DPE5											

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_9.qld

Last Altered: Tuesday, June 08, 2021 11:36:14 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:36:26 Pacific Daylight Time

Name: 210607R4_9, Date: 07-Jun-2021, Time: 19:58:57, ID: B1E0193-BLK1 Method Blank 1, Description: Method Blank

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

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

DPE3

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_9.qld

Last Altered: Tuesday, June 08, 2021 11:36:14 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:36:26 Pacific Daylight Time

Name: 210607R4_9, Date: 07-Jun-2021, Time: 19:58:57, ID: B1E0193-BLK1 Method Blank 1, Description: Method Blank

1,2,3,4,6,7,8-HpCDF
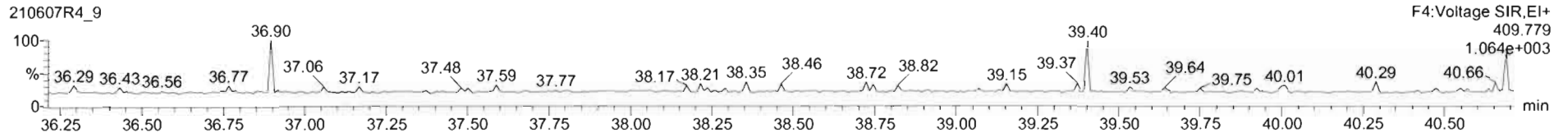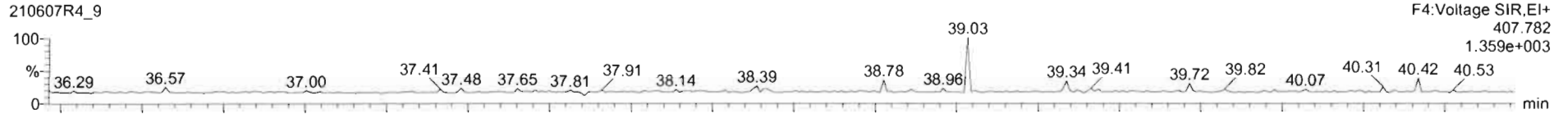
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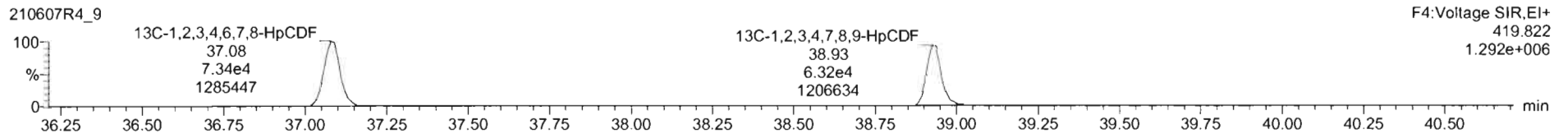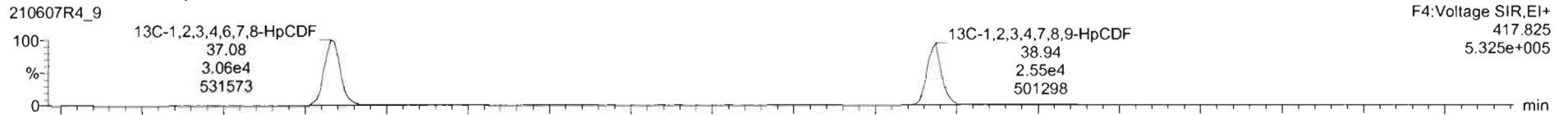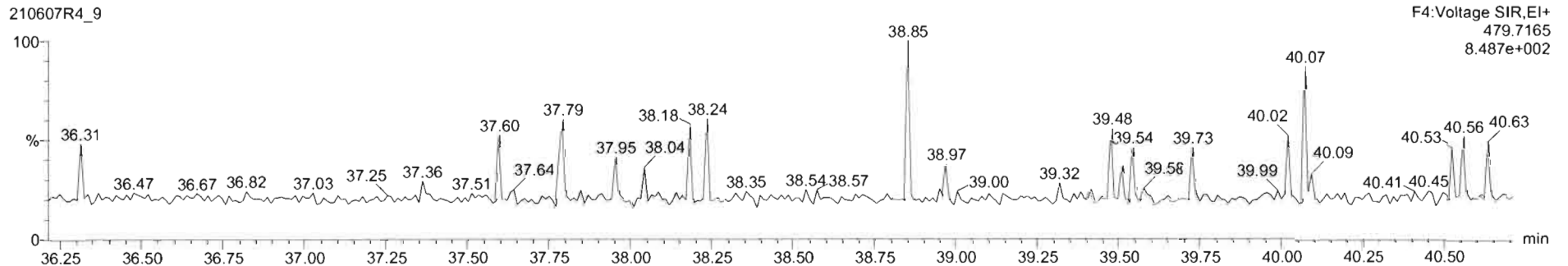
DPE4

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_9.qld

Last Altered: Tuesday, June 08, 2021 11:36:14 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:36:26 Pacific Daylight Time

Name: 210607R4_9, Date: 07-Jun-2021, Time: 19:58:57, ID: B1E0193-BLK1 Method Blank 1, Description: Method Blank

OCDF

13C-OCDF

DPE5

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_9.qld

Last Altered: Tuesday, June 08, 2021 11:36:14 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:36:26 Pacific Daylight Time

Name: 210607R4_9, Date: 07-Jun-2021, Time: 19:58:57, ID: B1E0193-BLK1 Method Blank 1, Description: Method Blank

Dataset: U:\VG12.PRO\Results\210524R1\210524R1_8.qld

Last Altered: Tuesday, May 25, 2021 11:16:25 Pacific Daylight Time
Printed: Tuesday, May 25, 2021 11:17:23 Pacific Daylight Time

HN 05/25/21

Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

MM 5/31/21

Name: 210524R1_8, Date: 24-May-2021, Time: 17:23:08, ID: B1E0193-BS1 OPR 1, Description: OPR

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	1.33e5	0.76	NO	0.929	1.000	26.713	26.70	1.001	1.001	240.33		0.250	240
2	2 1,2,3,7,8-PeCDD	5.02e5	0.62	NO	0.826	1.000	31.151	31.12	1.001	1.000	1205.1		1.23	1210
3	3 1,2,3,4,7,8-HxCDD	4.16e5	1.27	NO	0.972	1.000	34.477	34.48	1.001	1.001	1235.8		1.67	1240
4	4 1,2,3,6,7,8-HxCDD	4.17e5	1.24	NO	0.877	1.000	34.613	34.60	1.001	1.000	1221.5		1.75	1220
5	5 1,2,3,7,8,9-HxCDD	4.30e5	1.25	NO	0.874	1.000	34.884	34.88	1.000	1.000	1242.5		1.73	1240
6	6 1,2,3,4,6,7,8-HpCDD	3.16e5	1.05	NO	0.899	1.000	38.300	38.30	1.000	1.000	1211.5		3.48	1210
7	7 OCDD	4.06e5	0.90	NO	0.852	1.000	41.356	41.37	1.000	1.001	2387.1		7.08	2390
8	8 2,3,7,8-TCDF	1.59e5	0.74	NO	0.747	1.000	26.063	26.09	1.000	1.001	238.64		0.292	239
9	9 1,2,3,7,8-PeCDF	5.67e5	1.57	NO	0.877	1.000	29.917	29.94	1.000	1.001	1196.0		4.66	1200
10	10 2,3,4,7,8-PeCDF	8.32e5	1.57	NO	0.962	1.000	30.961	30.95	1.001	1.000	1215.5		3.58	1220
11	11 1,2,3,4,7,8-HxCDF	5.46e5	1.23	NO	0.920	1.000	33.534	33.53	1.000	1.000	1204.2		1.92	1200
12	12 1,2,3,6,7,8-HxCDF	6.07e5	1.23	NO	0.936	1.000	33.680	33.68	1.001	1.001	1206.5		1.81	1210
13	13 2,3,4,6,7,8-HxCDF	5.35e5	1.22	NO	0.973	1.000	34.372	34.37	1.001	1.001	1217.8		2.21	1220
14	14 1,2,3,7,8,9-HxCDF	4.43e5	1.24	NO	0.940	1.000	35.440	35.45	1.000	1.001	1197.9		2.98	1200
15	15 1,2,3,4,8,7,8-HpCDF	3.96e5	1.02	NO	1.05	1.000	37.087	37.08	1.000	1.000	1193.8		3.14	1190
18	16 1,2,3,4,7,8,9-HpCDF	3.49e5	1.02	NO	1.05	1.000	38.971	38.97	1.000	1.000	1191.8		3.16	1190
17	17 OCDF	5.03e5	0.89	NO	0.771	1.000	41.681	41.68	1.000	1.000	2402.6		4.04	2400
18	18 13C-2,3,7,8-TCDD	1.19e6	0.78	NO	1.10	1.000	26.670	26.68	1.027	1.027	1820.9	91.0	0.897	
19	19 13C-1,2,3,7,8-PeCDD	1.01e6	0.83	NO	0.864	1.000	31.051	31.12	1.196	1.198	1970.1	98.5	1.56	
20	20 13C-1,2,3,4,7,8-HxCDD	6.92e5	1.29	NO	0.746	1.000	34.454	34.46	1.014	1.014	1634.0	81.7	2.42	
21	21 13C-1,2,3,6,7,8-HxCDD	7.79e5	1.29	NO	0.847	1.000	34.573	34.59	1.017	1.018	1620.4	81.0	2.13	
22	22 13C-1,2,3,7,8,9-HxCDD	7.93e5	1.25	NO	0.868	1.000	34.872	34.87	1.026	1.026	1807.1	80.4	2.08	
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.80e5	1.04	NO	0.664	1.000	38.220	38.29	1.125	1.127	1537.6	76.9	4.55	
24	24 13C-OCDD	7.97e5	0.89	NO	0.561	1.000	41.166	41.35	1.211	1.217	2503.4	62.6	5.03	
25	25 13C-2,3,7,8-TCDF	1.79e6	0.79	NO	1.09	1.000	26.059	26.06	1.003	1.003	1732.8	86.6	1.03	
26	26 13C-1,2,3,7,8-PeCDF	1.08e6	1.57	NO	0.809	1.000	29.781	29.91	1.147	1.152	1415.8	70.8	7.51	
27	27 13C-2,3,4,7,8-PeCDF	1.42e6	1.61	NO	0.803	1.000	30.742	30.94	1.184	1.191	1879.4	94.0	7.57	
28	28 13C-1,2,3,4,7,8-HxCDF	9.86e5	0.51	NO	1.01	1.000	33.526	33.52	0.987	0.986	1716.4	85.8	4.08	
29	29 13C-1,2,3,6,7,8-HxCDF	1.08e6	0.52	NO	1.07	1.000	33.655	33.66	0.990	0.990	1763.7	86.2	3.84	
30	30 13C-2,3,4,6,7,8-HxCDF	9.04e5	0.52	NO	0.910	1.000	34.345	34.35	1.011	1.011	1750.4	87.5	4.53	
31	31 13C-1,2,3,7,8,9-HxCDF	7.87e5	0.51	NO	0.828	1.000	35.423	35.43	1.042	1.042	1673.3	83.7	4.98	

Dataset: U:\VG12.PRO\Results\210524R1\210524R1_8.qld
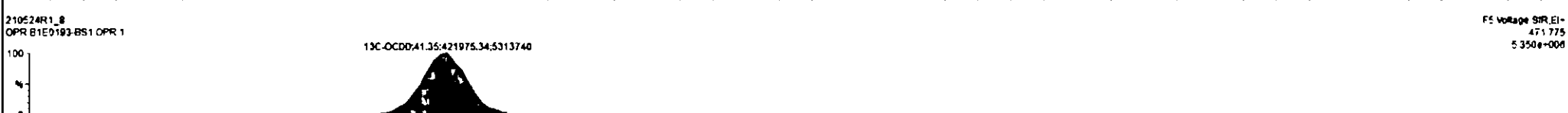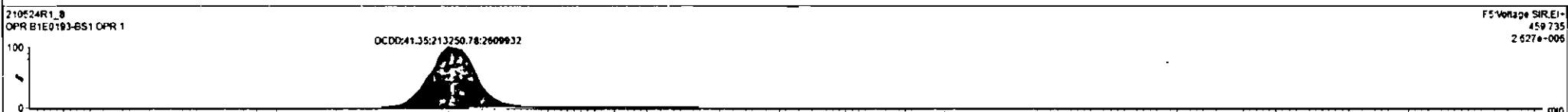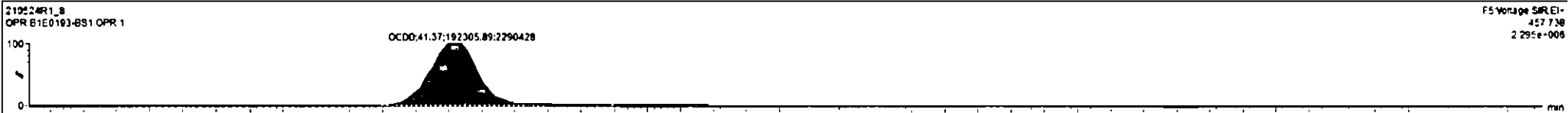
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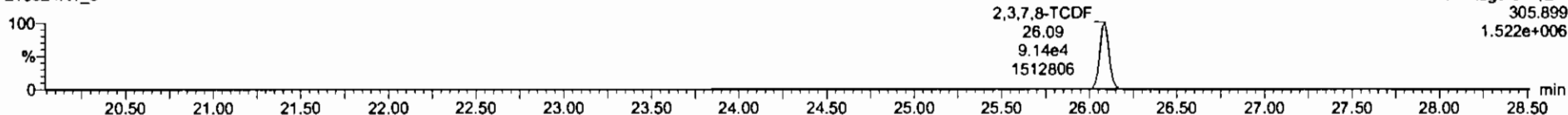Printed: Tuesday, May 25, 2021 11:17:23 Pacific Daylight Time

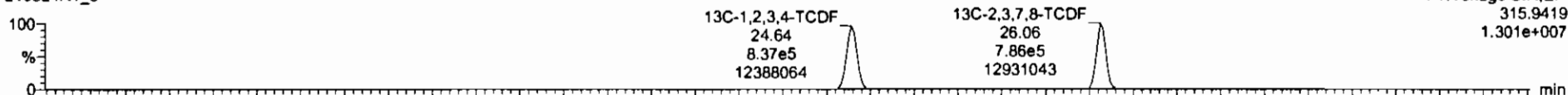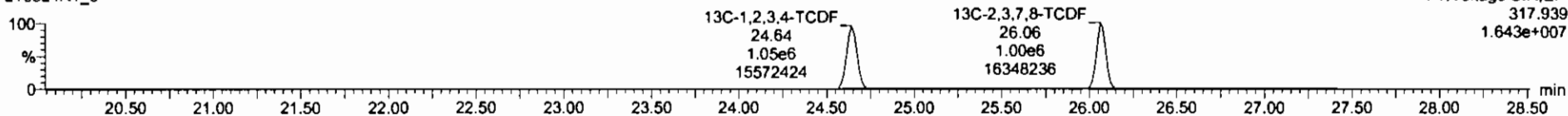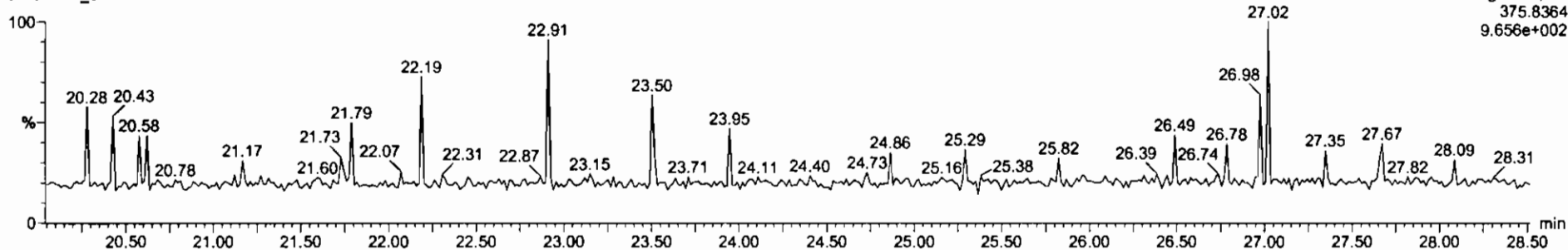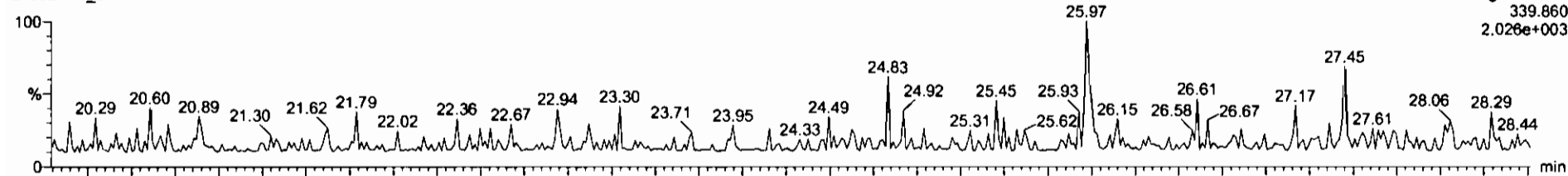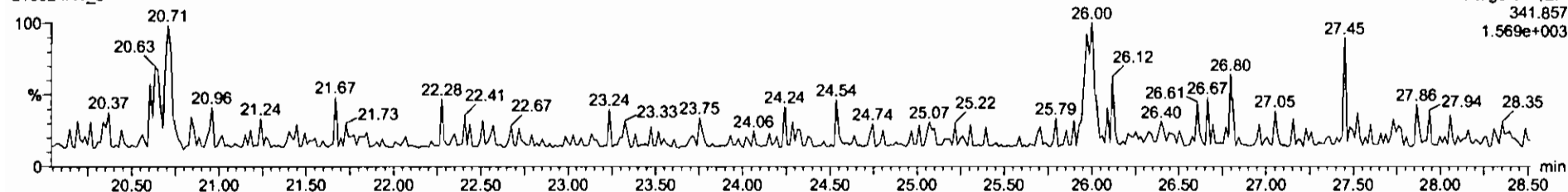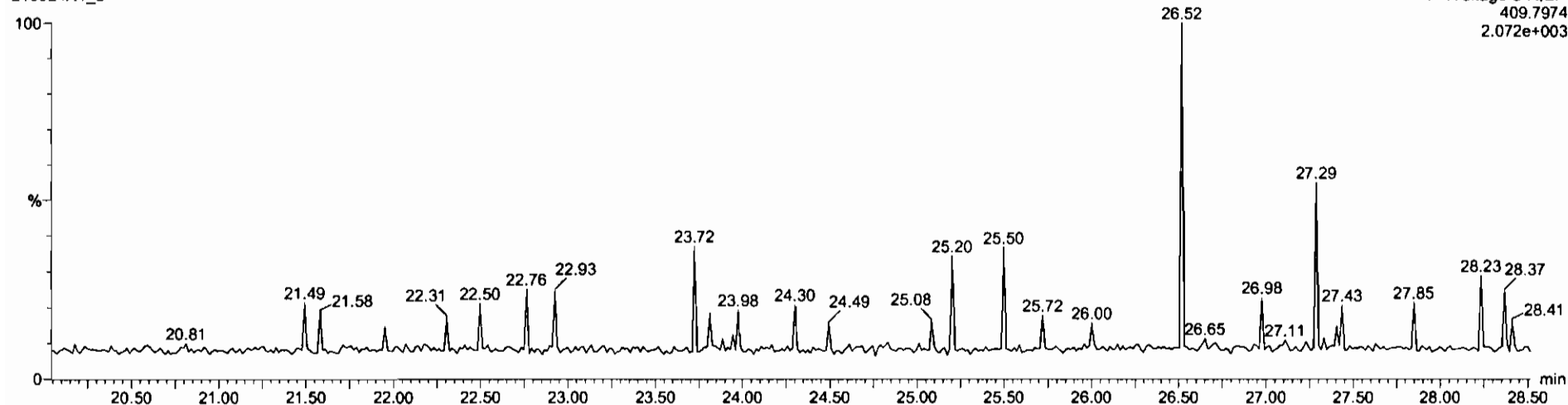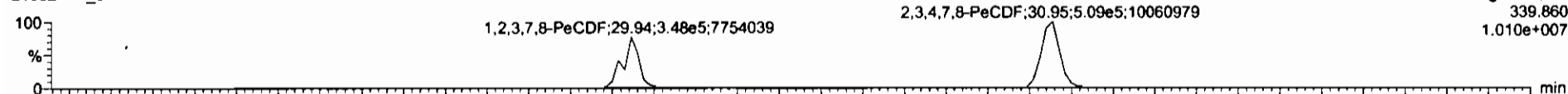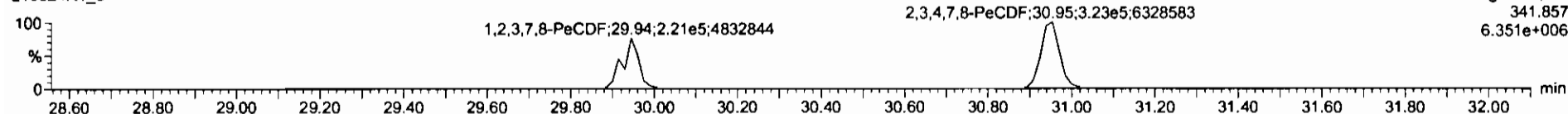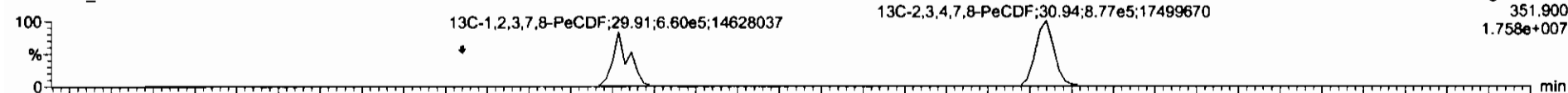**Name: 210524R1_8, Date: 24-May-2021, Time: 17:23:08, ID: B1E0193-BS1 OPR 1, Description: OPR**

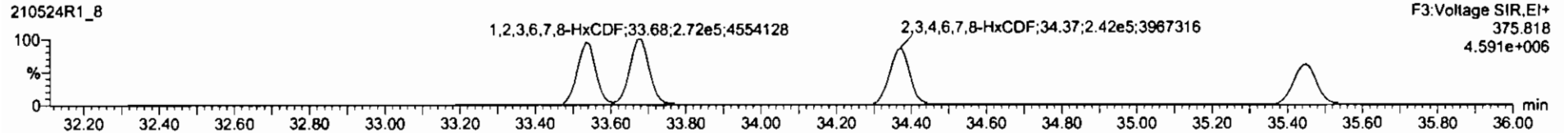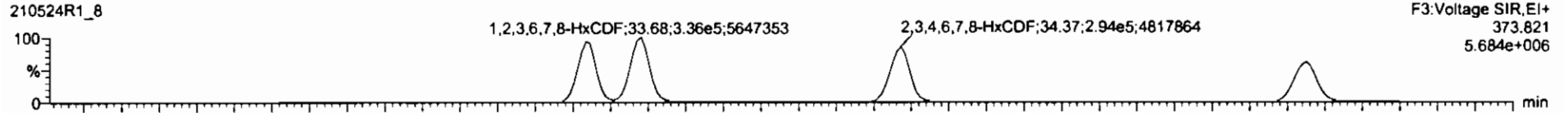|	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	6.32e5	0.44	NO	0.661	1.000	37.030	37.07	1.090	1.091	1684.6	84.2	4.20	
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.61e5	0.44	NO	0.566	1.000	38.790	38.96	1.141	1.146	1745.4	87.3	4.91	
34	34 13C-OCDF	1.09e6	0.89	NO	0.663	1.000	41.553	41.67	1.223	1.226	2887.6	72.2	3.69	
35	35 37Cl-2,3,7,8-TCDD	1.02e6			2.07	1.000	26.870	26.70	1.035	1.028	834.45	104	0.246	
36	36 13C-1,2,3,4-TCDD	1.19e6	0.79	NO	1.00	1.000	26.070	25.97	1.000	1.000	2000.0	100	0.990	
37	37 13C-1,2,3,4-TCDF	1.89e6	0.80	NO	1.00	1.000	24.760	24.64	1.000	1.000	2000.0	100	1.13	
38	38 13C-1,2,3,4,6,9-HxCDF	1.14e6	0.52	NO	1.00	1.000	34.040	33.99	1.000	1.000	2000.0	100	4.12	

Dataset: U:\VG12.PRO\Results\210524R1\210524R1_8.qld

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Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210524R1_8, Date: 24-May-2021, Time: 17:23:08, ID: B1E0193-BS1 OPR 1, Description: OPR

2,3,7,8-TCDD

210524R1_8   F1:Voltage SIR,EI+
                                                           2,3,7,8-TCDD   319.8965
100   26.70   9.682e+005
                                                           5.76e4
%   963975

0   min

210524R1_8   F1:Voltage SIR,EI+
                                                           2,3,7,8-TCDD   321.894
100   26.70   1.272e+006
                                                           7.55e4
%   1266069

0   min
23.00   23.50   24.00   24.50   25.00   25.50   26.00   26.50   27.00   27.50   28.00   28.50

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

210524R1_8   F1:Voltage SIR,EI+
                                           13C-1,2,3,4-TCDD   13C-2,3,7,8-TCDD   331.9368
100   25.97   26.68   8.961e+006
                                           5.22e5   5.24e5
%   8281366   8909193

0   min

210524R1_8   F1:Voltage SIR,EI+
                                           13C-1,2,3,4-TCDD   13C-2,3,7,8-TCDD   333.934
100   25.97   26.68   1.155e+007
                                           6.64e5   6.68e5
%   10550229   11490652

0   min
23.00   23.50   24.00   24.50   25.00   25.50   26.00   26.50   27.00   27.50   28.00   28.50

Dataset: U:\VG12.PRO\Results\210524R1\210524R1_8.qld

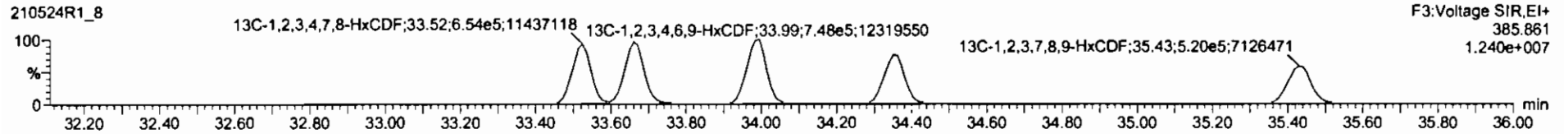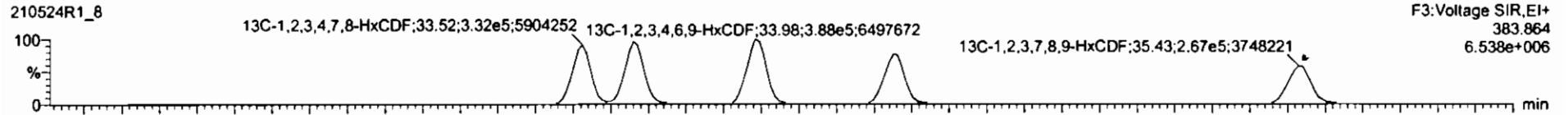Last Altered: Tuesday, May 25, 2021 09:17:11 Pacific Daylight Time
Printed: Tuesday, May 25, 2021 09:17:23 Pacific Daylight Time

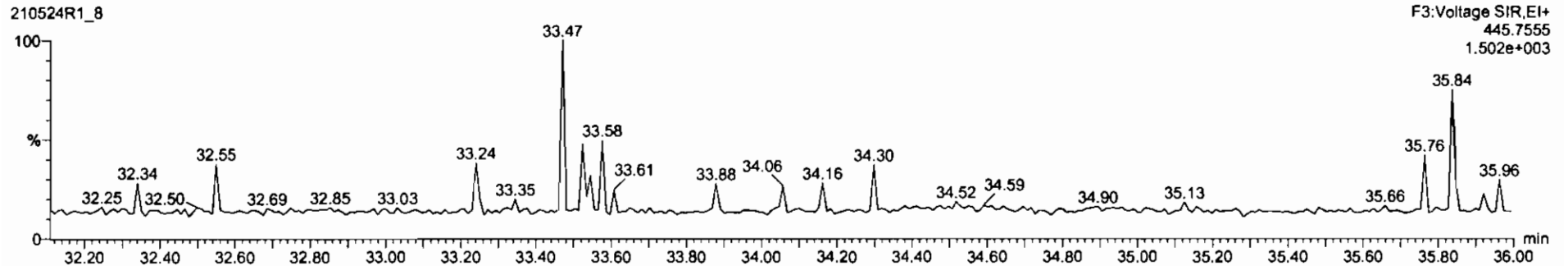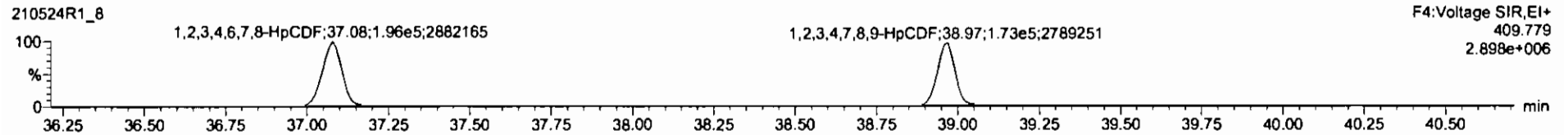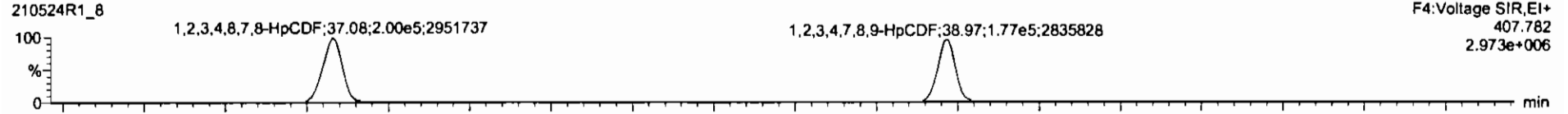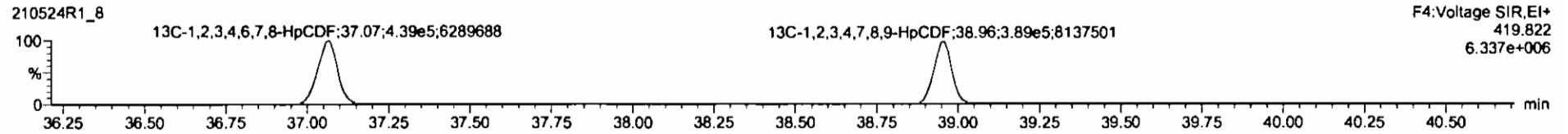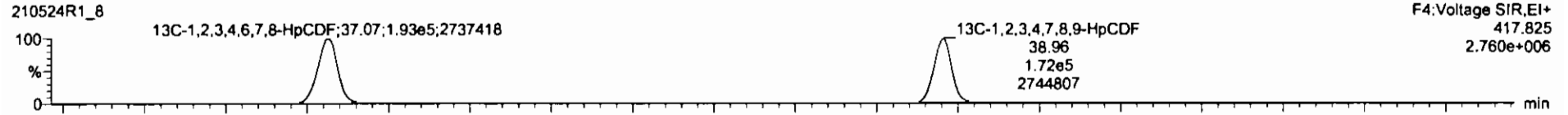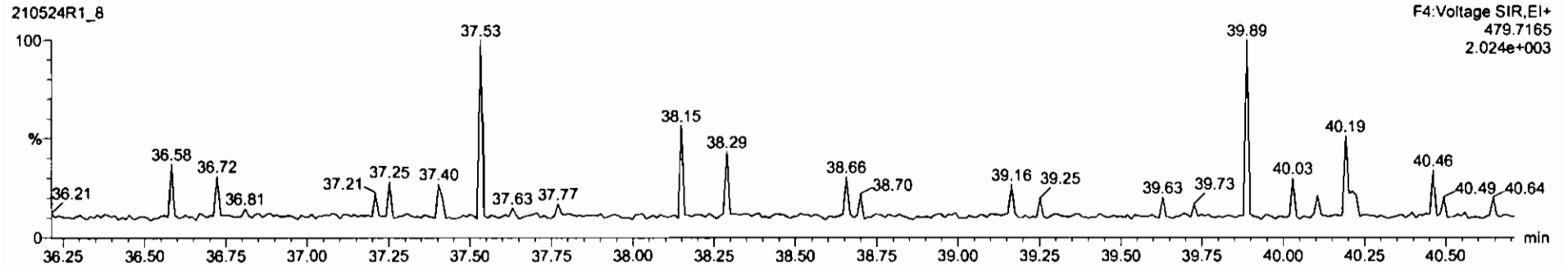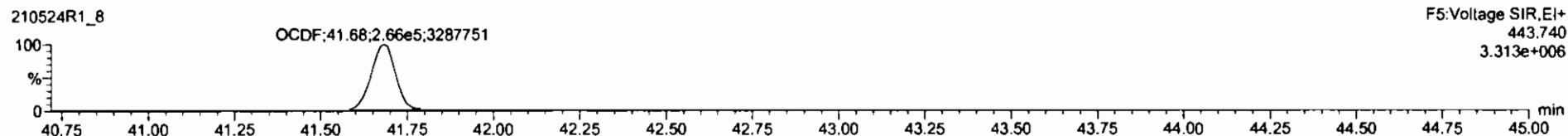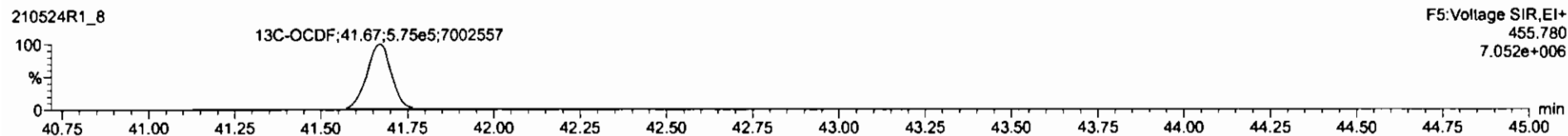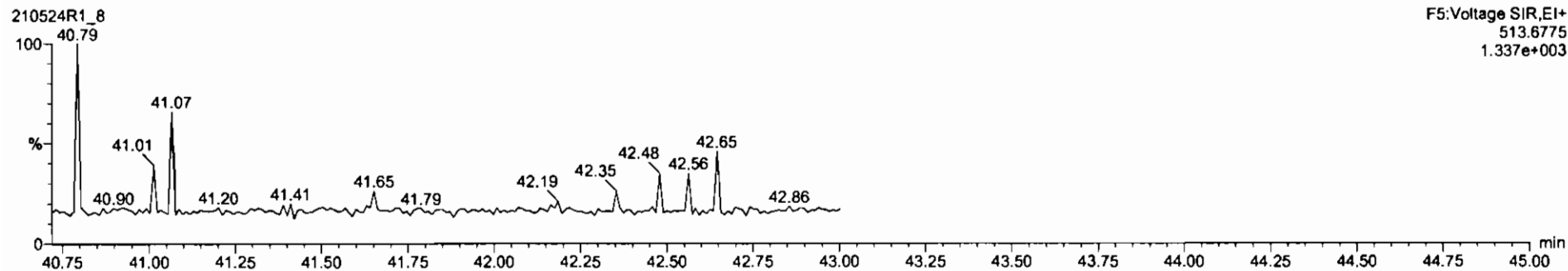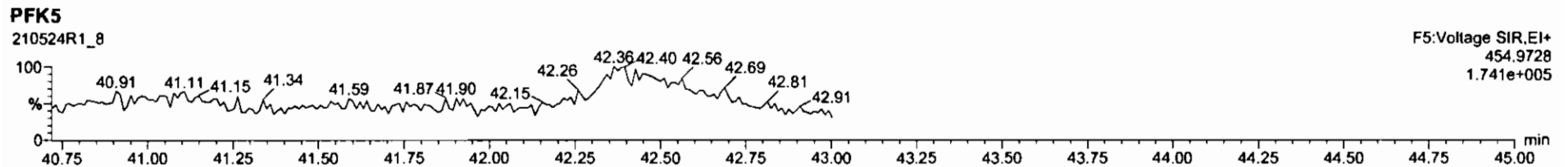Name: 210524R1_8, Date: 24-May-2021, Time: 17:23:08, ID: B1E0193-BS1 OPR 1, Description: OPR

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

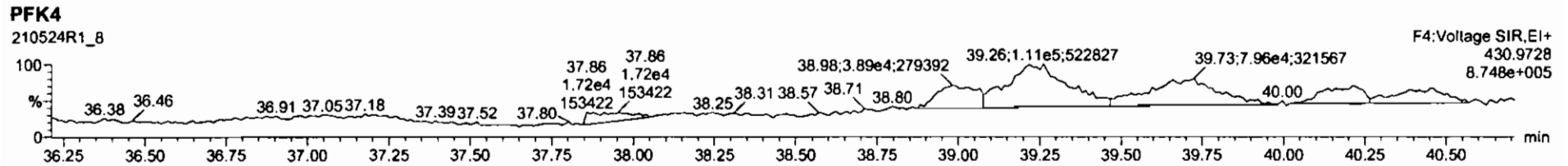210524R1_8
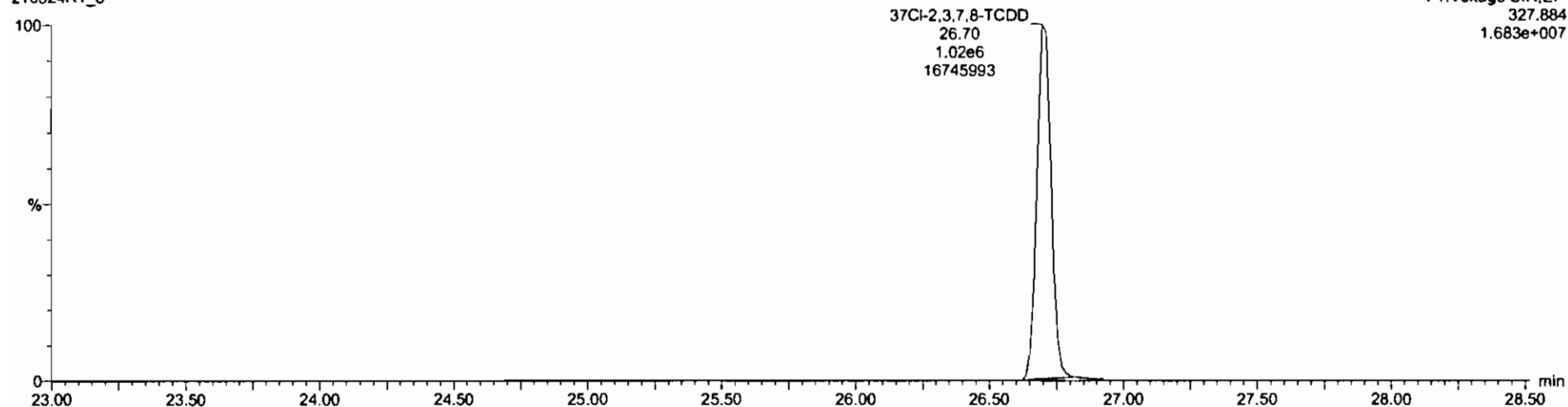
13C-1,2,3,4-TCDD
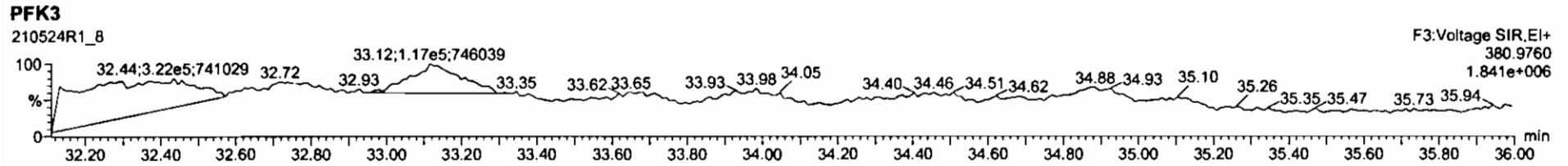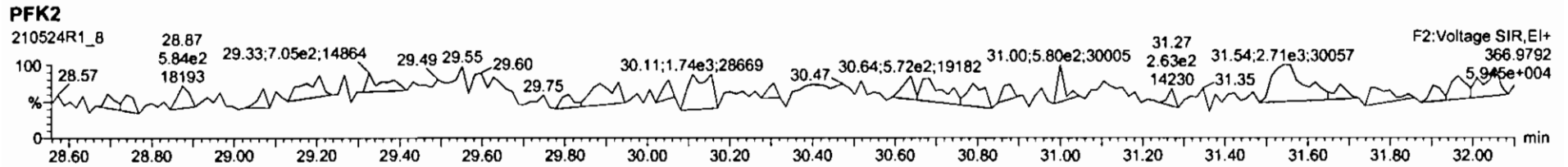
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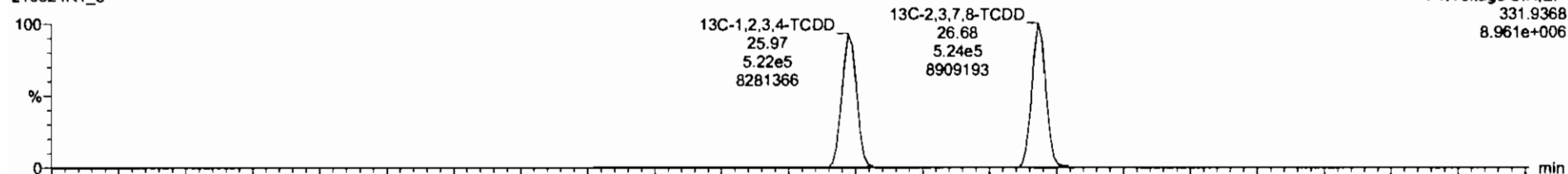
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Dataset: U:\VG12.PRO\Results\210524R1\210524R1_8.qld

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Name: 210524R1_8, Date: 24-May-2021, Time: 17:23:08, ID: B1E0193-BS1 OPR 1, Description: OPR

1,2,3,7,8-PeCDD

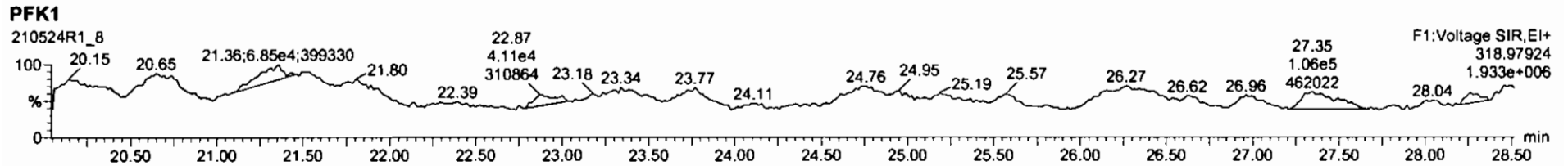

13C-1,2,3,7,8-PeCDD

Dataset: U:\VG12.PRO\Results\210524R1\210524R1_8.qld

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Name: 210524R1_8, Date: 24-May-2021, Time: 17:23:08, ID: B1E0193-BS1 OPR 1, Description: OPR

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

210524R1_8

1,2,3,4,7,8-HxCDD
34.48
2.36e5
3768765

1,2,3,6,7,8-HxCDD;34.60;2.30e5;3700075

F3:Voltage SIR,EI+
389.816
3.785e+006

210524R1_8

1,2,3,4,7,8-HxCDD
34.48
1.84e5
2933458

1,2,3,7,8,9-HxCDD
34.88
1.91e5
2870064

F3:Voltage SIR,EI+
391.813
2.944e+006

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

210524R1_8

13C-1,2,3,6,7,8-HxCDD;34.59;4.39e5;6622584

13C-1,2,3,7,8,9-HxCDD
34.87
4.40e5
6645827

F3:Voltage SIR,EI+
401.856
6.724e+006

210524R1_8

13C-1,2,3,6,7,8-HxCDD;34.59;3.41e5;5246419

13C-1,2,3,7,8,9-HxCDD
34.87
3.52e5
5265979

F3:Voltage SIR,EI+
403.853
5.315e+006

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
41	Total Hexa-Dioxins	✓			0 6771	1 000			3700		1 77	3700
42	Total Hepta-Dioxins				0 8947	1 000			12		3 49	12
43	Total Tetra-Furans				0 7466	1 000			240		0 292	240
44	Tot Func Penta-Furans				0 6771	1 000				0 5689		
45	Total Penta-Furans				0 6771	1 000			2440		4 24	2450
46	Total Hexa-Furans				0 9725	1 000			4830		2 11	4830
47	Total Hepta-Furans				1 0481	1 000			2390		3 15	2390
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											
52	PFK5											
53	DPE1											
54	DPE2											
55	DPE3											
56	DPE4											
57	DPE5											

Dataset: U:\VG12.PRO\Results\210524R1\210524R1_8.qld

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Name: 210524R1_8, Date: 24-May-2021, Time: 17:23:08, ID: B1E0193-BS1 OPR 1, Description: OPR

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

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

Name	Resp	RA	m/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1,2,3,4,6,7,8-HpCDD	3.1Pe5	1.05	NO	0.2987	1.000	38.30	1.006	1210		3.48	1210
OCDD	4.17e5	0.91	NO	0.8524	1.000	41.37	1.001	2400		7.08	2400
2,3,7,8-TCDF	1.59e5	0.74	NO	0.7468	1.000	26.09	1.001	239		0.292	239
1,2,3,7,8-PeCDF	5.69e5	1.57	NO	0.8771	1.000	29.94	1.001	1200		4.65	1200
2,3,4,7,8-PeCDF	5.32e5	1.57	NO	0.9621	1.000	30.95	1.000	1220		3.58	1220
1,2,3,4,7,8-HxCDF	5.48e5	1.23	NO	0.9212	1.000	33.53	1.000	1200		1.92	1200
1,2,3,6,7,8-HxCDF	6.07e5	1.23	NO	0.9363	1.000	33.68	1.001	1210		1.61	1210
2,3,4,6,7,8-HxCDF	5.35e5	1.22	NO	0.9725	1.000	34.37	1.001	1220		2.21	1220
1,2,3,7,8,9-HxCDF	4.43e5	1.24	NO	0.9296	1.000	35.45	1.001	1200		2.96	1200
1,2,3,4,6,7,8-HpCDF	3.96e5	1.02	NO	1.0481	1.000	37.08	1.000	1190		3.14	1190
1,2,3,4,7,8,9-HpCDF	3.49e5	1.02	NO	1.0453	1.000	38.97	1.000	1190		3.16	1190
OCDF	5.02e5	0.89	NO	0.7712	1.000	41.68	1.000	2400		4.04	2400
13C-2,3,7,8-TCDD	1.19e6	0.76	NO	1.1042	1.000	26.68	1.027	1820	91.0	0.097	
13C-1,2,3,7,8-PeCDD	1.01e6	0.63	NO	0.8635	1.000	31.12	1.198	1970	98.5	1.58	
13C-1,2,3,4,7,8-HxCDD	6.92e5	1.29	NO	0.7461	1.000	34.46	1.014	1630	81.7	2.42	
13C-1,2,3,6,7,8-HxCDD	7.79e5	1.29	NO	0.8468	1.000	34.59	1.018	1620	81.0	2.13	
13C-1,2,3,7,8,9-HxCDD	7.93e5	1.25	NO	0.8843	1.000	34.87	1.026	1610	80.4	2.08	
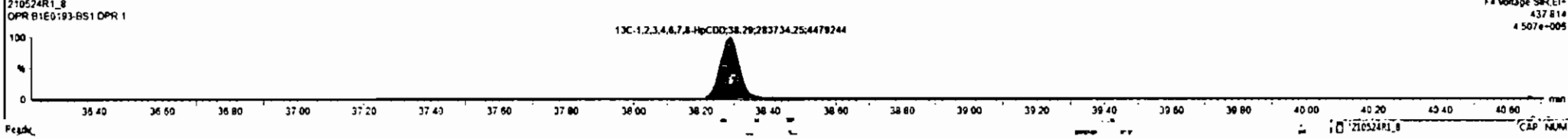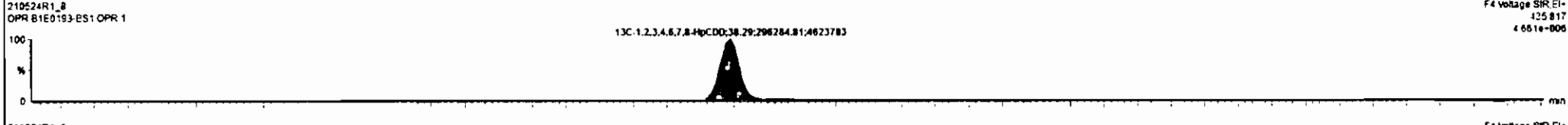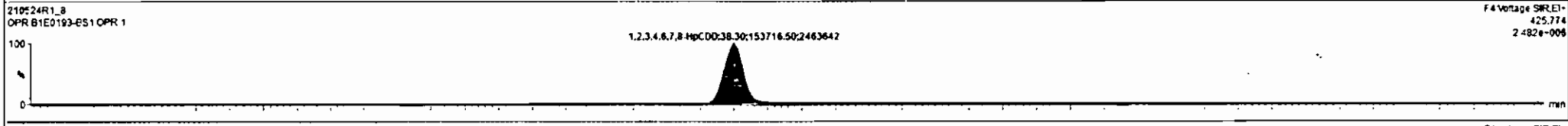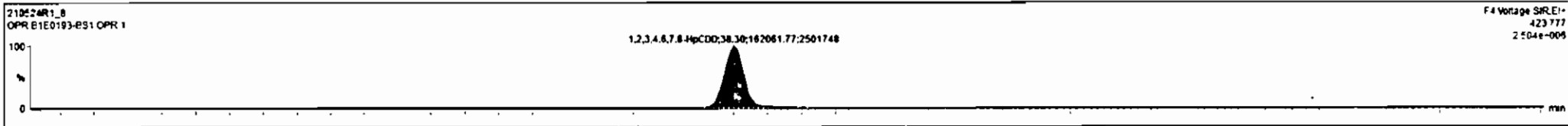
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Name: 210524R1_8, Date: 24-May-2021, Time: 17:23:08, ID: B1E0193-BS1 OPR 1, Description: OPR

OCDD

13C-OCDD
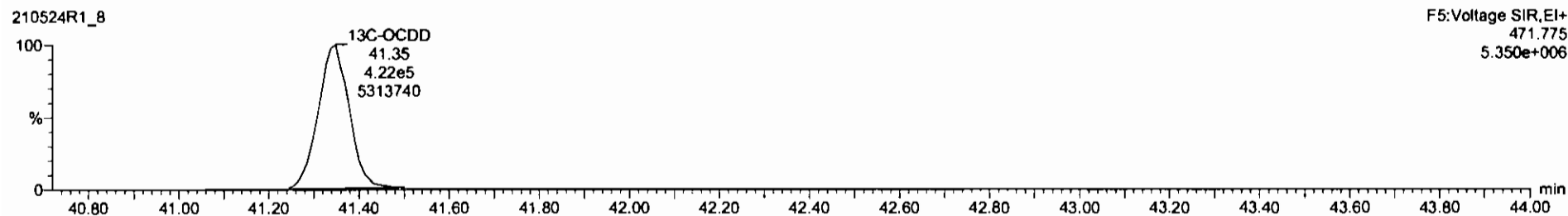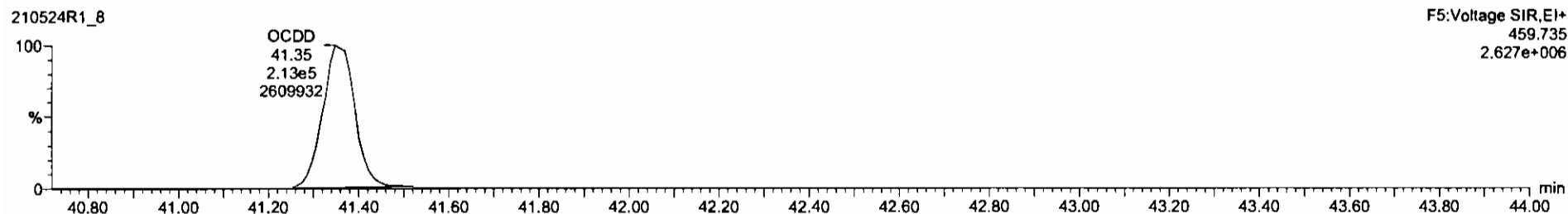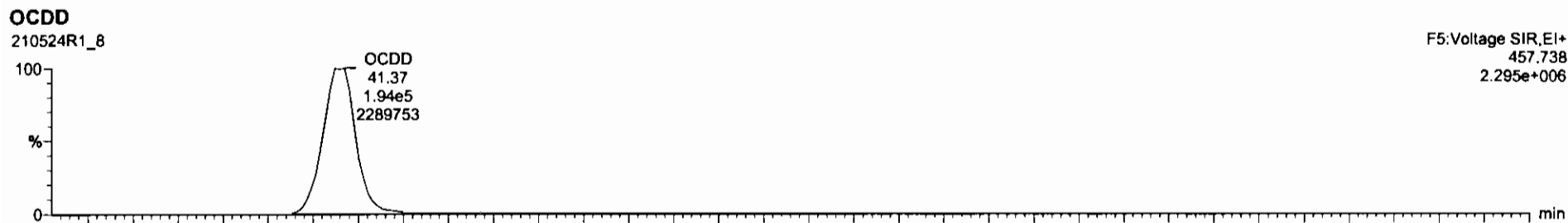
	Name	Resp	RA	n/V	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
6	1,2,3,4,6,7,8-HpCDD	3.16e5	1.05	NO	0.8987	1.000	38.30	1.000	1210		3.43	1210
7	OCDD	4.08e5	0.90	NO	0.8524	1.000	41.37	1.001	2390		7.08	2390
8	2,3,7,8-TCDF	1.59e5	0.74	NO	0.7466	1.000	26.89	1.001	239		0.292	239
9	1,2,3,7,8-PeCDF	5.69e5	1.57	NO	0.8771	1.000	29.94	1.001	1200		4.65	1200
10	2,3,4,7,8-PeCDF	8.32e5	1.57	NO	0.9621	1.000	30.95	1.000	1220		3.58	1220
11	1,2,3,4,7,8-HxCDF	5.46e5	1.23	NO	0.9202	1.000	33.53	1.000	1200		1.92	1200
12	1,2,3,6,7,8-HxCDF	6.07e5	1.23	NO	0.9303	1.000	33.68	1.001	1210		1.81	1210
13	2,3,4,6,7,8-HxCDF	5.35e5	1.22	NO	0.9725	1.000	34.37	1.001	1220		2.21	1220
14	1,2,3,7,8,9-HxCDF	4.43e5	1.24	NO	0.9396	1.000	35.45	1.001	1200		2.99	1200
15	1,2,3,4,6,7,8-HpCDF	3.96e5	1.02	NO	1.0481	1.000	37.88	1.000	1190		3.14	1190
16	1,2,3,4,7,8,9-HpCDF	3.49e5	1.02	NO	1.0453	1.000	38.97	1.000	1190		3.16	1190
17	OCDF	5.03e5	0.89	NO	0.7712	1.000	41.68	1.000	2430		4.04	2400
18	13C-2,3,7,8-TCDD	1.19e6	0.78	NO	1.1043	1.000	26.68	1.027	1820	91.0	0.897	
19	13C-1,2,3,7,8-PeCDD	1.01e6	0.63	NO	0.8635	1.000	31.12	1.196	1970	98.5	1.56	
20	13C-1,2,3,4,7,8-HxCDD	6.82e5	1.29	NO	0.7461	1.000	34.46	1.314	1630	81.7	2.42	
21	13C-1,2,3,6,7,8-HxCDD	7.76e5	1.29	NO	0.8468	1.000	34.59	1.018	1620	81.0	2.13	
22	13C-1,2,3,7,8,9-HxCDO	7.93e5	1.25	NO	0.8683	1.000	34.87	1.026	1610	80.4	2.08	

210524R1_8
OPR B1E0193-BS1 OPR 1
F5 Voltage SIR,EI+
457 738
2.295e+006
OCDD;41.37;192305.89;2290428

210524R1_8
OPR B1E0193-BS1 OPR 1
F5 Voltage SIR,EI+
459 735
2.627e+006
OCDD;41.35;213250.78;2609932

210524R1_8
OPR B1E0193-BS1 OPR 1
F5 Voltage SIR,EI+
459 778
4.840e+006
13C-OCDD;41.35;375285.38;4803093

210524R1_8
OPR B1E0193-BS1 OPR 1
F5 Voltage SIR,EI+
471 775
5.350e+006
13C-OCDD;41.35;421975.34;5313740

Dataset: U:\VG12.PRO\Results\210524R1\210524R1_8.qld

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Name: 210524R1_8, Date: 24-May-2021, Time: 17:23:08, ID: B1E0193-BS1 OPR 1, Description: OPR

2,3,7,8-TCDF

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

DPE1

Dataset: U:\VG12.PRO\Results\210524R1\210524R1_8.qld

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Name: 210524R1_8, Date: 24-May-2021, Time: 17:23:08, ID: B1E0193-BS1 OPR 1, Description: OPR

1st Func. Penta-Furans

DPE6

Dataset: U:\VG12.PRO\Results\210524R1\210524R1_8.qld

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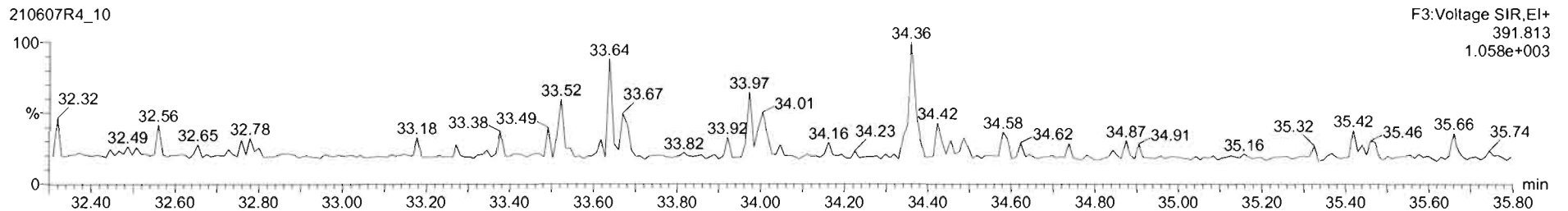**Name: 210524R1_8, Date: 24-May-2021, Time: 17:23:08, ID: B1E0193-BS1 OPR 1, Description: OPR**
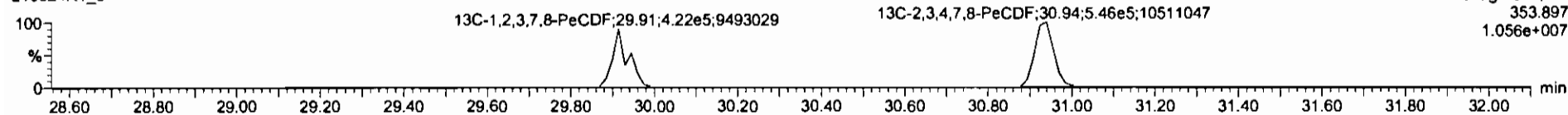
1,2,3,7,8-PeCDF

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

DPE2
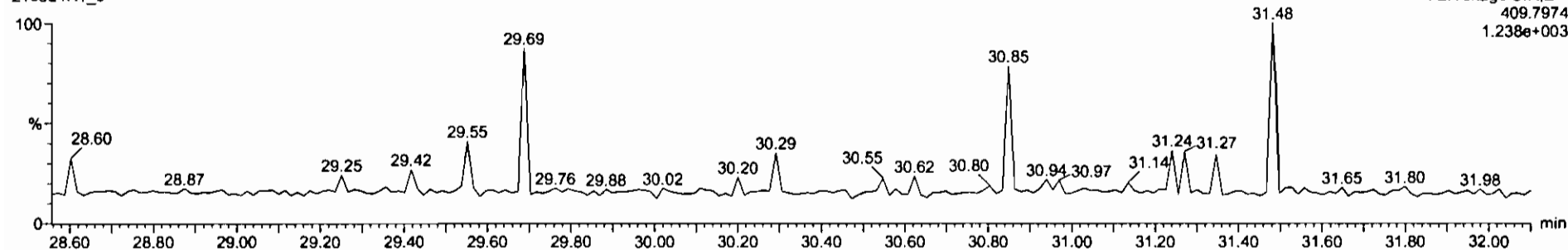
R	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
17	OCDF	5.03e5	0.89	NO	0.7712	1.000	41.68	1.000	2400		4.04	2430
18	13C-2,3,7,8-TCDD	1.19e6	0.78	NO	1.1048	1.000	26.66	1.027	1820	91.0	0.897	
19	13C-1,2,3,7,8-PeCDD	1.01e6	0.63	NO	0.8635	1.000	31.12	1.196	1970	98.5	1.56	
20	13C-1,2,3,4,7,8-HxCDD	6.92e5	1.29	NO	0.7461	1.000	34.46	1.014	1630	81.7	2.42	
21	13C-1,2,3,6,7,8-HxCDD	7.79e5	1.29	NO	0.6468	1.000	34.59	1.018	1620	81.0	2.13	
22	13C-1,2,3,7,8,9-HxCDD	7.93e5	1.29	NO	0.5683	1.000	34.87	1.026	1610	80.4	2.08	
23	13C-1,2,3,4,6,7,8-HpCDD	5.80e5	1.04	NO	0.6641	1.000	38.29	1.127	1540	76.9	4.55	
24	13C-OCDD	7.97e5	0.89	NO	0.5607	1.000	41.35	1.217	2560	80.8	5.03	
25	13C-2,3,7,8-TCDF	1.79e6	0.79	NO	1.0931	1.000	26.08	1.003	1730	86.6	1.03	
26	13C-1,2,3,7,8-PeCDF	1.08e6	1.57	NO	0.8095	1.000	29.91	1.152	1420	70.8	7.51	
27	13C-2,3,4,7,8-PeCDF	1.42e6	1.61	NO	0.8021	1.000	30.94	1.191	1580	94.0	7.57	
28	13C-1,2,3,4,7,8-HxCDF	9.86e5	0.51	NO	1.0111	1.000	33.52	0.986	1720	86.8	4.08	
29	13C-1,2,3,6,7,8-HxCDF	1.08e6	0.52	NO	1.0734	1.000	33.66	0.990	1760	88.2	3.64	
30	13C-2,3,4,6,7,8-HxCDF	9.04e5	0.52	NO	0.9095	1.000	34.35	1.011	1750	87.5	4.53	
31	13C-1,2,3,7,8,9-HxCDF	7.87e5	0.51	NO	0.8285	1.000	35.43	1.042	1670	83.7	4.98	
32	13C-1,2,3,4,6,7,8-HpCDF	6.32e5	0.44	NO	0.6609	1.000	37.07	1.091	1680	84.2	4.20	
33	13C-1,2,3,4,7,8,9-HpCDF	5.61e5	0.44	NO	0.5658	1.000	38.96	1.146	1750	87.3	4.91	
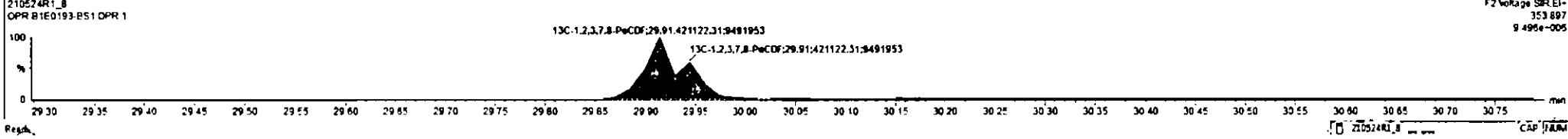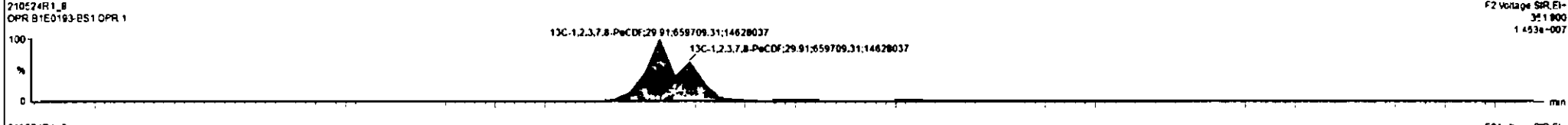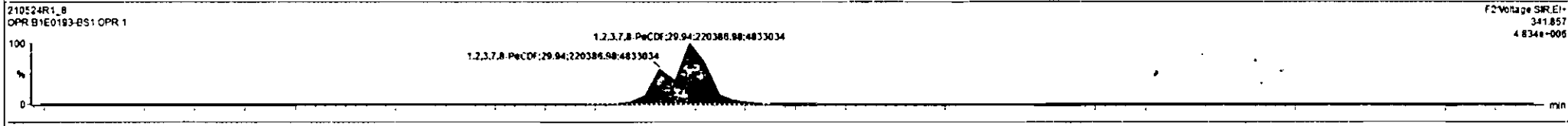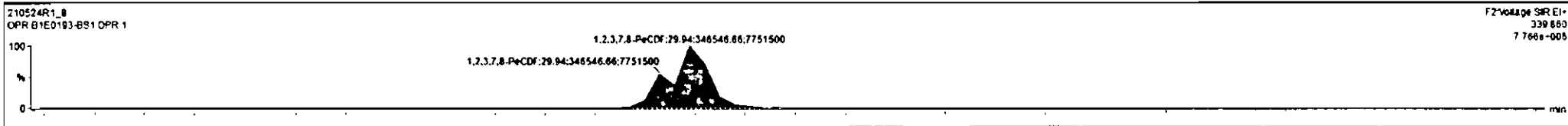
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OPR B1E0193-BS1 OPR 1 — F2 Voltage SIR EI+ 339.860 7.766e-006
1,2,3,7,8-PeCDF;29.94;346546.66;7751500

210524R1_8
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1,2,3,7,8-PeCDF;29.94;220386.98;4833034

210524R1_8
OPR B1E0193-BS1 OPR 1 — F2 Voltage SIR EI+ 351.900 1.453e-007
13C-1,2,3,7,8-PeCDF;29.91;659709.31;14628037

210524R1_8
OPR B1E0193-BS1 OPR 1 — F2 Voltage SIR EI+ 353.897 9.496e-006
13C-1,2,3,7,8-PeCDF;29.91;421122.31;9491953

Dataset: U:\VG12.PRO\Results\210524R1\210524R1_8.qld

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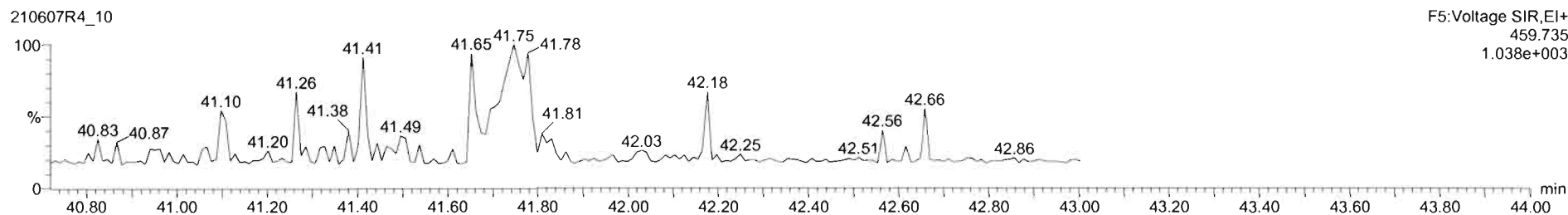
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1,2,3,4,7,8-HxCDF

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

DPE3

Dataset: U:\VG12.PRO\Results\210524R1\210524R1_8.qld

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Printed: Tuesday, May 25, 2021 09:17:23 Pacific Daylight Time

Name: 210524R1_8, Date: 24-May-2021, Time: 17:23:08, ID: B1E0193-BS1 OPR 1, Description: OPR

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

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

DPE4

Dataset: U:\VG12.PRO\Results\210524R1\210524R1_8.qld

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Printed: Tuesday, May 25, 2021 09:17:23 Pacific Daylight Time

Name: 210524R1_8, Date: 24-May-2021, Time: 17:23:08, ID: B1E0193-BS1 OPR 1, Description: OPR

OCDF

210524R1_8   F5:Voltage SIR,EI+
                        OCDF;41.68;2.37e5;2978914   441.743
100   3.000e+006
%
0   min

210524R1_8   F5:Voltage SIR,EI+
                        OCDF;41.68;2.66e5;3287751   443.740
100   3.313e+006
%
0   min
40.75 41.00 41.25 41.50 41.75 42.00 42.25 42.50 42.75 43.00 43.25 43.50 43.75 44.00 44.25 44.50 44.75 45.00

13C-OCDF

210524R1_8   F5:Voltage SIR,EI+
                        13C-OCDF;41.67;5.12e5;6392476   453.7831
100   6.435e+006
%
0   min

210524R1_8   F5:Voltage SIR,EI+
                        13C-OCDF;41.67;5.75e5;7002557   455.780
100   7.052e+006
%
0   min
40.75 41.00 41.25 41.50 41.75 42.00 42.25 42.50 42.75 43.00 43.25 43.50 43.75 44.00 44.25 44.50 44.75 45.00

DPE5

210524R1_8   F5:Voltage SIR,EI+
100   40.79   513.6775
                                                                             1.337e+003
         41.07
%
   41.01   42.48 42.65
      40.90   41.65   42.19 42.35 42.56
         41.20 41.41   41.79   42.86
0   min
40.75 41.00 41.25 41.50 41.75 42.00 42.25 42.50 42.75 43.00 43.25 43.50 43.75 44.00 44.25 44.50 44.75 45.00

Dataset: U:\VG12.PRO\Results\210524R1\210524R1_8.qld

Last Altered: Tuesday, May 25, 2021 09:17:11 Pacific Daylight Time
Printed: Tuesday, May 25, 2021 09:17:23 Pacific Daylight Time

Name: 210524R1_8, Date: 24-May-2021, Time: 17:23:08, ID: B1E0193-BS1 OPR 1, Description: OPR

PFK1
210524R1_8 — F1:Voltage SIR,EI+ 318.97924 1.933e+006

Peaks: 20.15, 20.65, 21.36;6.85e4;399330, 21.80, 22.39, 22.87 4.11e4 310864, 23.18, 23.34, 23.77, 24.11, 24.76, 24.95, 25.19, 25.57, 26.27, 26.62, 26.96, 27.35 1.06e5 462022, 28.04

PFK2
210524R1_8 — F2:Voltage SIR,EI+ 366.9792 5.945e+004

Peaks: 28.57, 28.87 5.84e2 18193, 29.33;7.05e2;14864, 29.49, 29.55, 29.60, 29.75, 30.11;1.74e3;28669, 30.47, 30.64;5.72e2;19182, 31.00;5.80e2;30005, 31.27 2.63e2 14230, 31.35, 31.54;2.71e3;30057

PFK3
210524R1_8 — F3:Voltage SIR,EI+ 380.9760 1.841e+006

Peaks: 32.44;3.22e5;741029, 32.72, 32.93, 33.12;1.17e5;746039, 33.35, 33.62, 33.65, 33.93, 33.98, 34.05, 34.40, 34.46, 34.51, 34.62, 34.88, 34.93, 35.10, 35.26, 35.35, 35.47, 35.73, 35.94

PFK4
210524R1_8 — F4:Voltage SIR,EI+ 430.9728 8.748e+005

Peaks: 36.38, 36.46, 36.91, 37.05, 37.18, 37.39, 37.52, 37.80, 37.86 1.72e4 153422, 37.86 1.72e4 153422, 37.86 1.72e4, 38.25, 38.31, 38.57, 38.71, 38.80, 38.98;3.89e4;279392, 39.26;1.11e5;522827, 39.73;7.96e4;321567, 40.00

PFK5
210524R1_8 — F5:Voltage SIR,EI+ 454.9728 1.741e+005

Peaks: 40.91, 41.11, 41.15, 41.34, 41.59, 41.87, 41.90, 42.15, 42.26, 42.36, 42.40, 42.56, 42.69, 42.81, 42.91
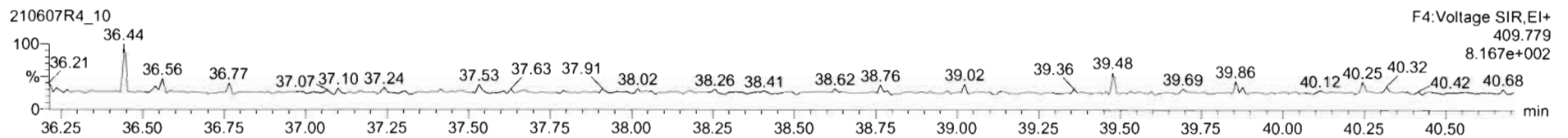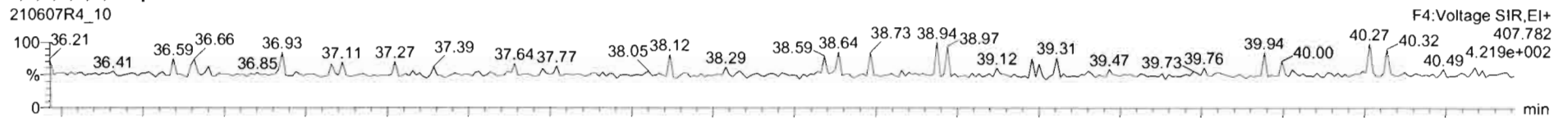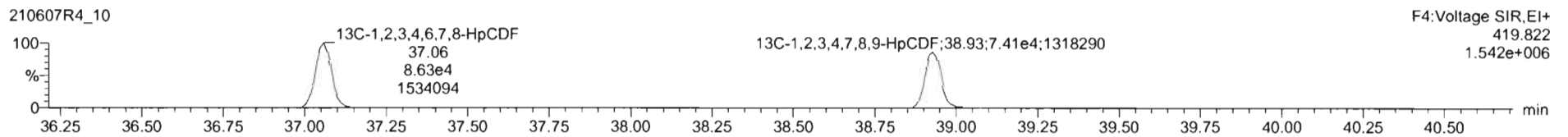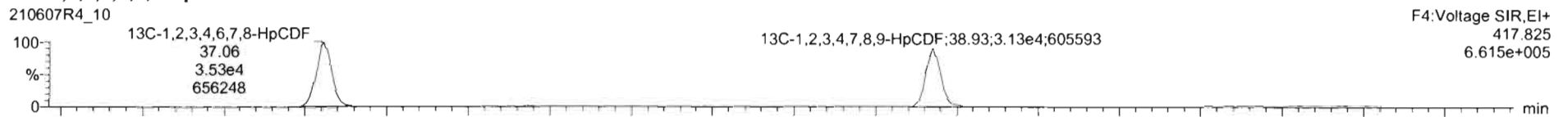
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Printed: Tuesday, June 08, 2021 13:53:45 Pacific Daylight Time

HN 06/08/21

Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38
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C7 06/09/2021

Name: 210607R4_10, Date: 07-Jun-2021, Time: 20:43:11, ID: 2105037-01 SC-FB-2105030940 1.00168, Description: SC-FB-2105030940
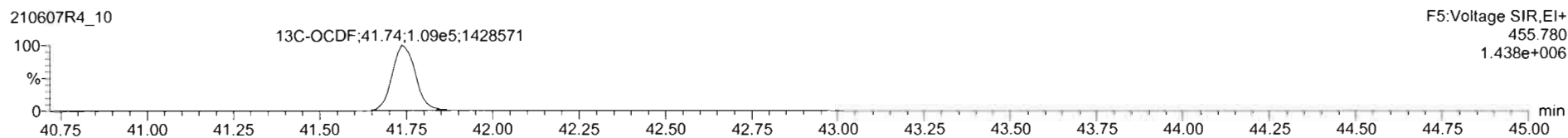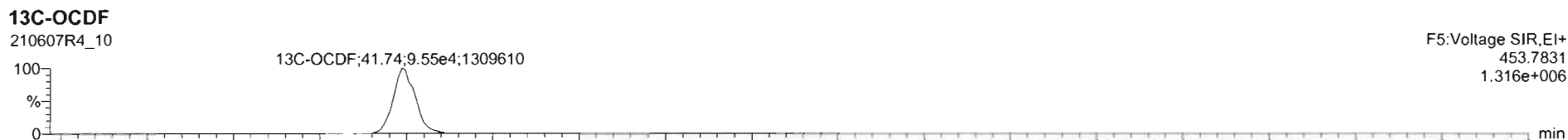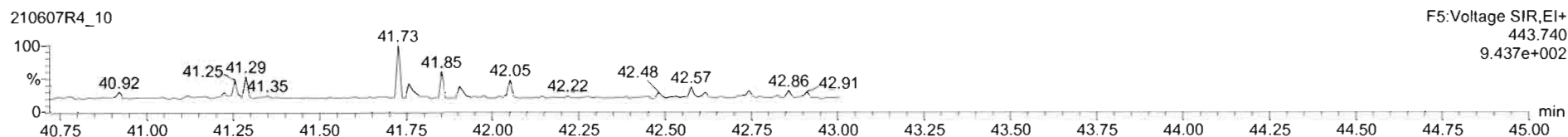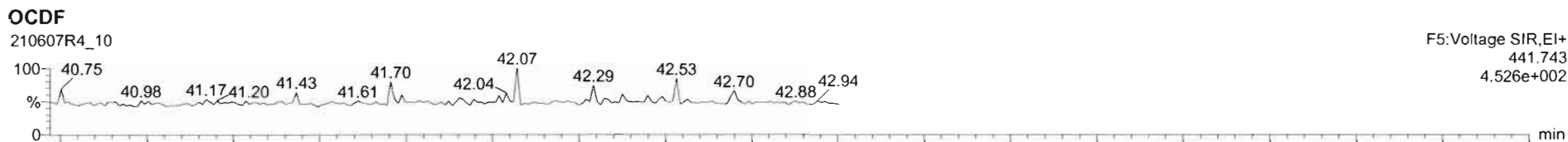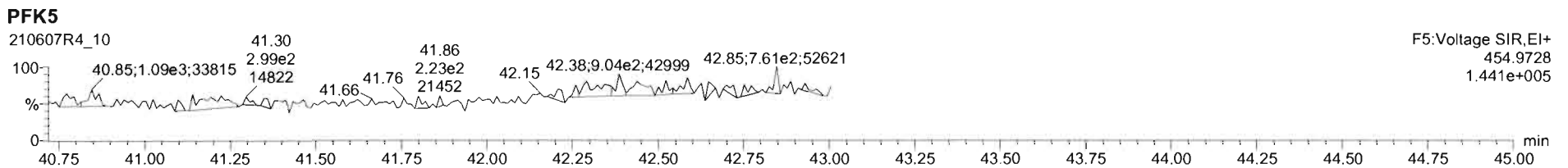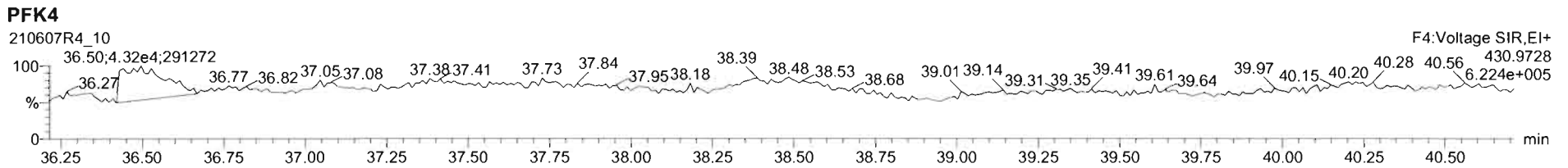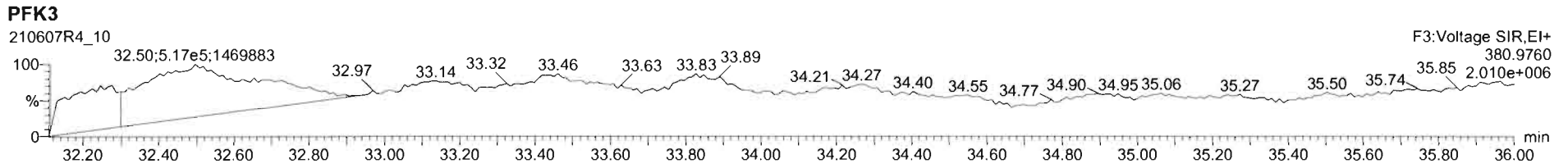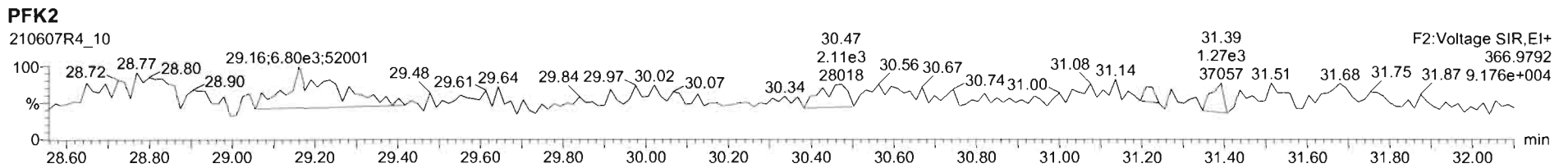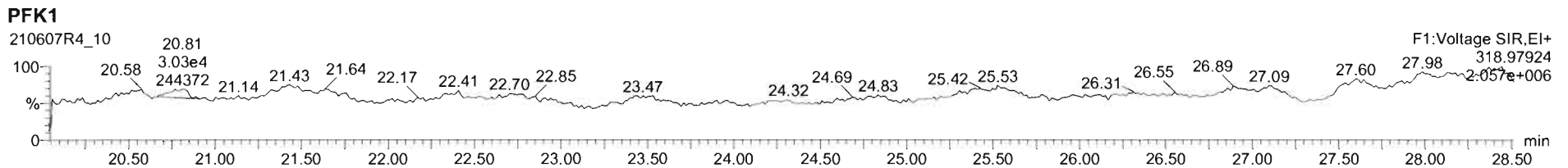
	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.929	1.002	26.698		1.001				0.392	
2	2 1,2,3,7,8-PeCDD			NO	0.826	1.002	31.136		1.001				0.692	
3	3 1,2,3,4,7,8-HxCDD			NO	0.972	1.002	34.477		1.001				0.750	
4	4 1,2,3,6,7,8-HxCDD			NO	0.877	1.002	34.602		1.001				0.846	
5	5 1,2,3,7,8,9-HxCDD			NO	0.874	1.002	34.884		1.000				0.851	
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.899	1.002	38.268		1.000				0.771	
7	7 OCDD			NO	0.852	1.002	41.419		1.000				2.89	
8	8 2,3,7,8-TCDF			NO	0.747	1.002	26.048		1.000				0.161	
9	9 1,2,3,7,8-PeCDF			NO	0.877	1.002	29.917		1.000				0.501	
10	10 2,3,4,7,8-PeCDF			NO	0.962	1.002	30.946		1.001				0.436	
11	11 1,2,3,4,7,8-HxCDF			NO	0.920	1.002	33.523		1.000				0.313	
12	12 1,2,3,6,7,8-HxCDF			NO	0.936	1.002	33.680		1.001				0.276	
13	13 2,3,4,6,7,8-HxCDF			NO	0.973	1.002	34.372		1.001				0.332	
14	14 1,2,3,7,8,9-HxCDF			NO	0.940	1.002	35.440		1.000				0.442	
15	15 1,2,3,4,6,7,8-HpCDF			NO	1.05	1.002	37.077		1.000				0.288	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.05	1.002	38.939		1.000				0.320	
17	17 OCDF			NO	0.771	1.002	41.744		1.000				0.639	
18	18 13C-2,3,7,8-TCDD	2.98e5	0.79	NO	1.10	1.002	26.640	26.67	1.027	1.028	1752.0	87.7	1.83	
19	19 13C-1,2,3,7,8-PeCDD	2.21e5	0.62	NO	0.864	1.002	31.016	31.10	1.196	1.199	1664.4	83.4	3.42	
20	20 13C-1,2,3,4,7,8-HxCDD	1.46e5	1.30	NO	0.746	1.002	34.454	34.46	1.014	1.014	1514.7	75.9	4.67	
21	21 13C-1,2,3,6,7,8-HxCDD	1.58e5	1.27	NO	0.847	1.002	34.573	34.58	1.017	1.018	1449.3	72.6	4.11	
22	22 13C-1,2,3,7,8,9-HxCDD	1.63e5	1.29	NO	0.868	1.002	34.872	34.87	1.026	1.026	1458.8	73.1	4.01	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.17e5	1.07	NO	0.664	1.002	38.220	38.26	1.125	1.126	1371.9	68.7	5.40	
24	24 13C-OCDD	1.60e5	0.87	NO	0.561	1.002	41.166	41.41	1.211	1.219	2214.5	55.5	6.00	
25	25 13C-2,3,7,8-TCDF	4.56e5	0.78	NO	1.09	1.002	26.030	26.05	1.003	1.004	1758.6	88.1	2.25	
26	26 13C-1,2,3,7,8-PeCDF	3.14e5	1.61	NO	0.809	1.002	29.748	29.91	1.147	1.153	1636.7	82.0	4.74	
27	27 13C-2,3,4,7,8-PeCDF	3.17e5	1.61	NO	0.803	1.002	30.708	30.92	1.184	1.192	1666.4	83.5	4.77	
28	28 13C-1,2,3,4,7,8-HxCDF	2.05e5	0.50	NO	1.01	1.002	33.526	33.51	0.987	0.986	1576.7	79.0	5.72	
29	29 13C-1,2,3,6,7,8-HxCDF	2.15e5	0.49	NO	1.07	1.002	33.655	33.66	0.990	0.990	1553.6	77.8	5.39	
30	30 13C-2,3,4,6,7,8-HxCDF	1.90e5	0.50	NO	0.910	1.002	34.345	34.35	1.011	1.011	1621.2	81.2	6.36	
31	31 13C-1,2,3,7,8,9-HxCDF	1.62e5	0.49	NO	0.828	1.002	35.423	35.43	1.042	1.042	1513.0	75.8	6.99	

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_10.qld

Last Altered: Tuesday, June 08, 2021 13:52:14 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 13:53:45 Pacific Daylight Time

Name: 210607R4_10, Date: 07-Jun-2021, Time: 20:43:11, ID: 2105037-01 SC-FB-2105030940 1.00168, Description: SC-FB-2105030940

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.22e5	0.41	NO	0.661	1.002	37.030	37.06	1.090	1.090	1427.8	71.5	5.25	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.05e5	0.42	NO	0.566	1.002	38.790	38.93	1.141	1.145	1446.1	72.4	6.14	
34	34 13C-OCDF	2.04e5	0.88	NO	0.663	1.002	41.553	41.74	1.223	1.228	2391.9	59.9	4.84	
35	35 37Cl-2,3,7,8-TCDD	2.60e5			2.07	1.002	26.840	26.68	1.035	1.028	818.77	103	0.432	
36	36 13C-1,2,3,4-TCDD	3.07e5	0.77	NO	1.00	1.002	26.070	25.94	1.000	1.000	1996.6	100	2.02	
37	37 13C-1,2,3,4-TCDF	4.73e5	0.79	NO	1.00	1.002	24.760	24.60	1.000	1.000	1996.6	100	2.46	
38	38 13C-1,2,3,4,6,9-HxCDF	2.57e5	0.51	NO	1.00	1.002	34.040	33.99	1.000	1.000	1996.6	100	5.79	
39	39 Total Tetra-Dioxins				0.929	1.002	24.620		0.000				0.209	
40	40 Total Penta-Dioxins				0.826	1.002	29.960		0.000		0.00000		0.213	0.779
41	41 Total Hexa-Dioxins				0.877	1.002	33.635		0.000				0.491	
42	42 Total Hepta-Dioxins				0.899	1.002	37.640		0.000				0.543	
43	43 Total Tetra-Furans				0.747	1.002	23.610		0.000				0.0835	
44	44 1st Func. Penta-Furans				0.877	1.002	27.620		0.000				0.0576	
45	45 Total Penta-Furans				0.877	1.002	29.275		0.000				0.160	
46	46 Total Hexa-Furans				0.973	1.002	33.555		0.000				0.165	
47	47 Total Hepta-Furans				1.05	1.002	37.835		0.000				0.137	

Quantify Totals Report MassLynx 4.1 SCN815
Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_10.qld
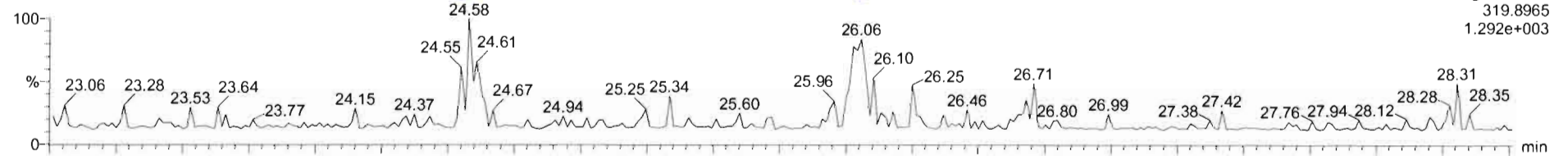
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Printed: Tuesday, June 08, 2021 13:53:45 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38
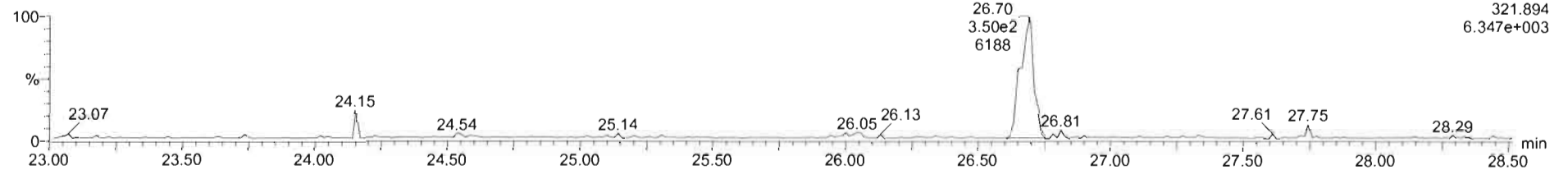**Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26**

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Tetra-Dioxins

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

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.18	8.310e2	3.553e3	2.754e1	1.339e2	0.21	YES	0.000e0	0.00000	0.77930	0.213

Hexa-Dioxins

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

Hepta-Dioxins

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

Tetra-Furans

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

Penta-Furans function 1

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

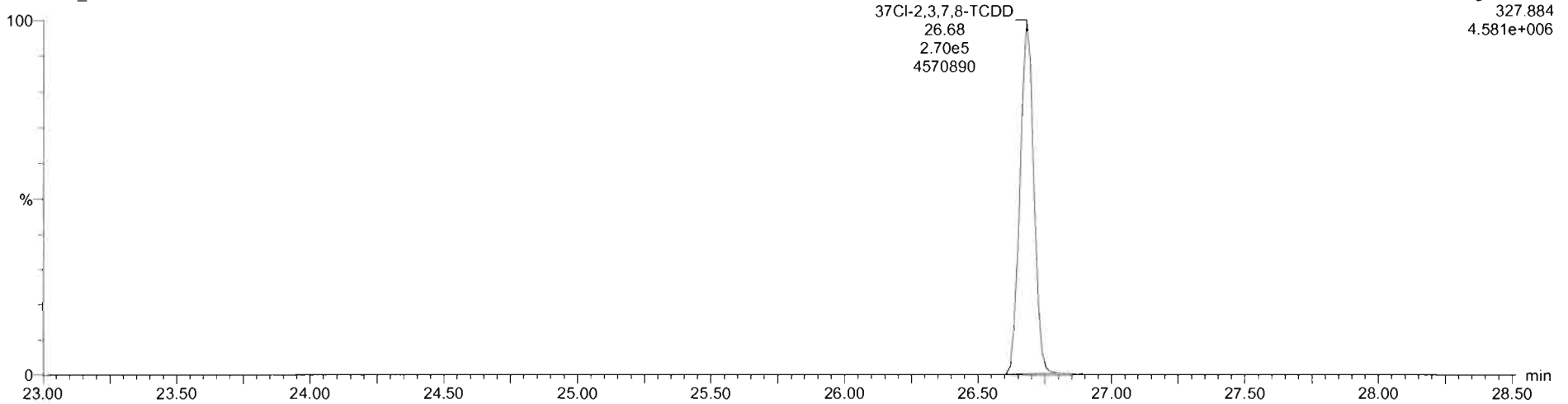Dataset: U:\VG12.PRO\Results\210607R4\210607R4_10.qld

Last Altered: Tuesday, June 08, 2021 13:52:14 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 13:53:45 Pacific Daylight Time

Name: 210607R4_10, Date: 07-Jun-2021, Time: 20:43:11, ID: 2105037-01 SC-FB-2105030940 1.00168, Description: SC-FB-2105030940
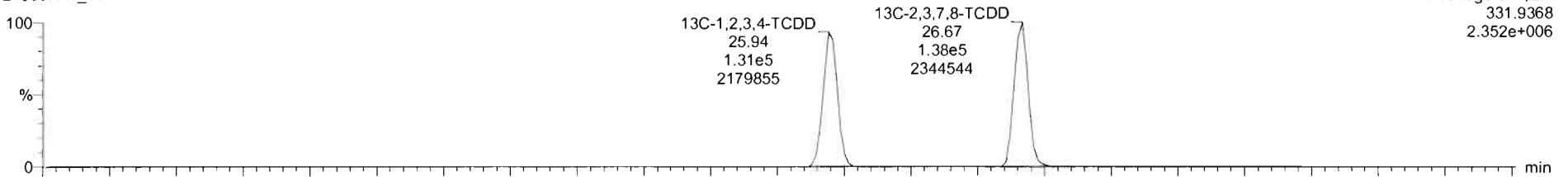
Penta-Furans

	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: U:\VG12.PRO\Results\210607R4\210607R4_10.qld

Last Altered: Tuesday, June 08, 2021 11:36:32 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:36:46 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210607R4_10, Date: 07-Jun-2021, Time: 20:43:11, ID: 2105037-01 SC-FB-2105030940 1.00168, Description: SC-FB-2105030940

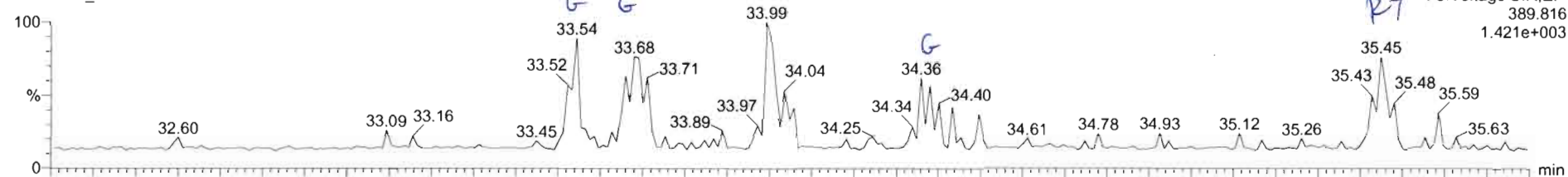**2,3,7,8-TCDD**

13C-2,3,7,8-TCDD
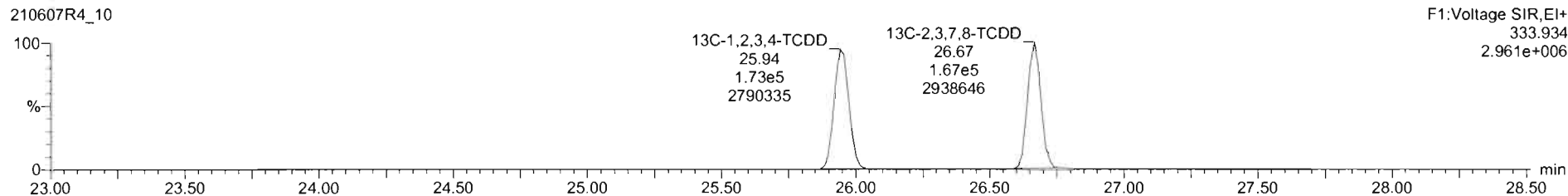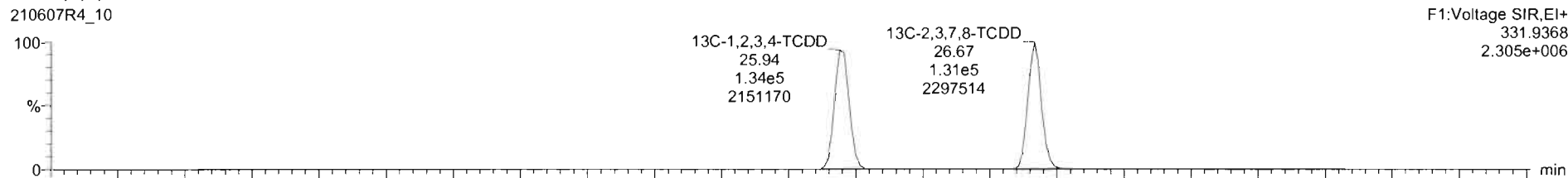
Dataset: U:\VG12.PRO\Results\210607R4\210607R4_10.qld

Last Altered: Tuesday, June 08, 2021 11:36:32 Pacific Daylight Time
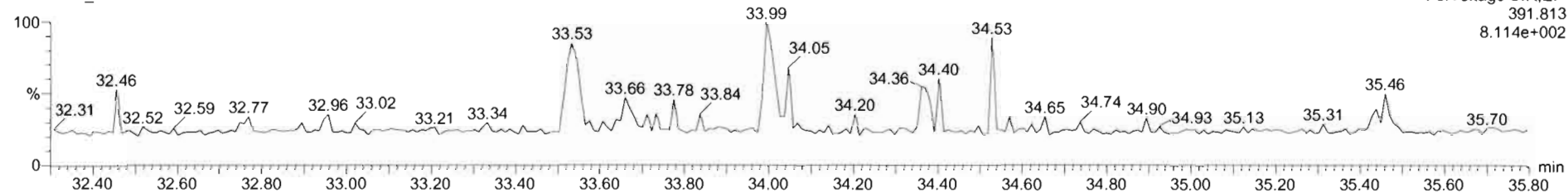Printed: Tuesday, June 08, 2021 11:36:46 Pacific Daylight Time

Name: 210607R4_10, Date: 07-Jun-2021, Time: 20:43:11, ID: 2105037-01 SC-FB-2105030940 1.00168, Description: SC-FB-2105030940

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

210607R4_10

F1:Voltage SIR,EI+
327.884
4.343e+006

37Cl-2,3,7,8-TCDD
26.68
2.60e5
4326183

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

210607R4_10

F1:Voltage SIR,EI+
331.9368
2.305e+006

13C-1,2,3,4-TCDD
25.94
1.34e5
2151170

13C-2,3,7,8-TCDD
26.67
1.31e5
2297514

210607R4_10

F1:Voltage SIR,EI+
333.934
2.961e+006

13C-1,2,3,4-TCDD
25.94
1.73e5
2790335
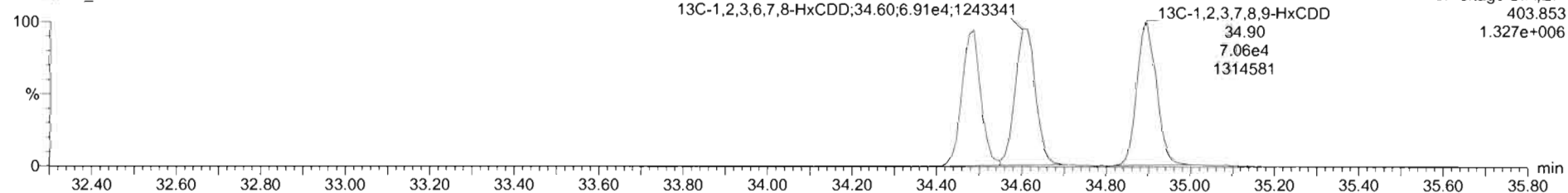
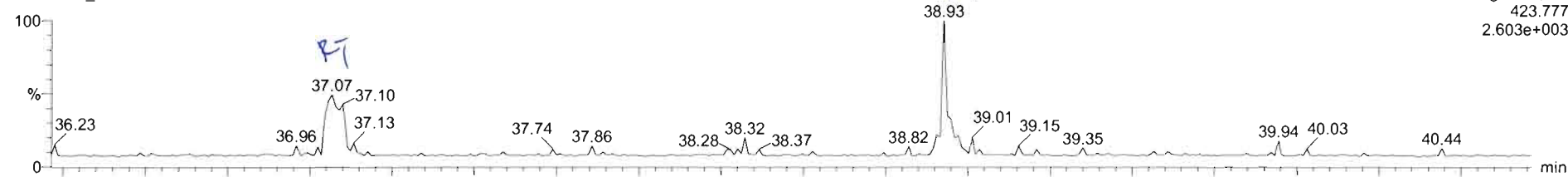13C-2,3,7,8-TCDD
26.67
1.67e5
2938646

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_10.qld

Last Altered: Tuesday, June 08, 2021 11:36:32 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:36:46 Pacific Daylight Time
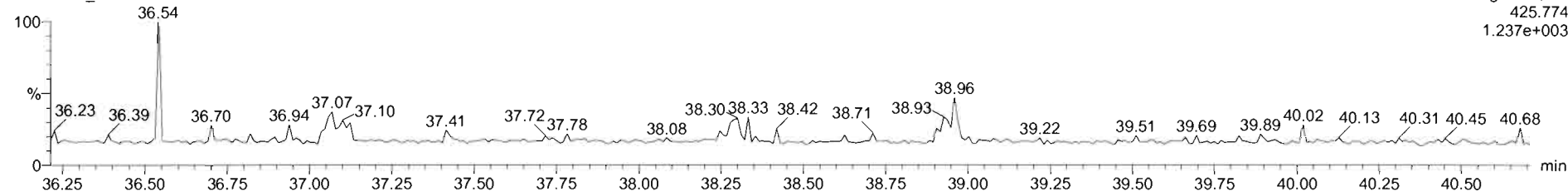
Name: 210607R4_10, Date: 07-Jun-2021, Time: 20:43:11, ID: 2105037-01 SC-FB-2105030940 1.00168, Description: SC-FB-2105030940

1,2,3,7,8-PeCDD

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

File Edit View Display Processing Window Help

210607R4_10 - 2105037-01 SC-FB-2105030940 1.00168 - SC-FB-2105030940
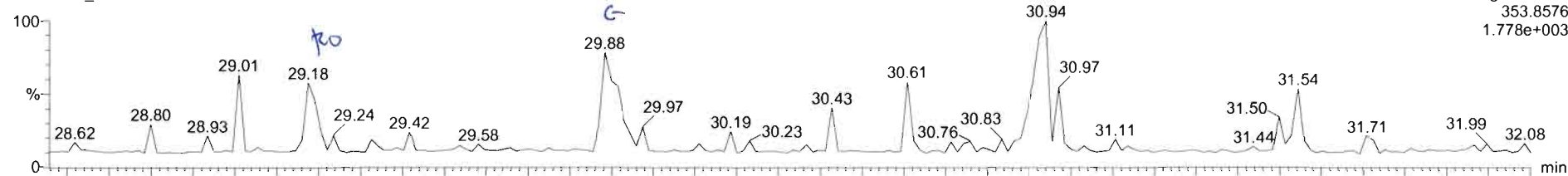
	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
40	Total Penta-Dioxins				0.8257	1.002			0.000		0.213	0.779
41	Total Hexa-Dioxins				0.8771	1.002					0.491	
42	Total Hepta-Dioxins				0.8987	1.002					0.543	
43	Total Tetra-Furans				0.7465	1.002					0.0835	
44	1st Func Penta-Furans				0.8771	1.002					0.0576	
45	Total Penta-Furans				0.8771	1.002					0.160	

	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	Total Penta-Dioxins	29.18	2.754e1	1.339e2	0.21	YES	0.77930	0.00000

Chromatogram

Work Order 2105037

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_10.qld

Last Altered: Tuesday, June 08, 2021 11:36:32 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:36:46 Pacific Daylight Time

Name: 210607R4_10, Date: 07-Jun-2021, Time: 20:43:11, ID: 2105037-01 SC-FB-2105030940 1.00168, Description: SC-FB-2105030940
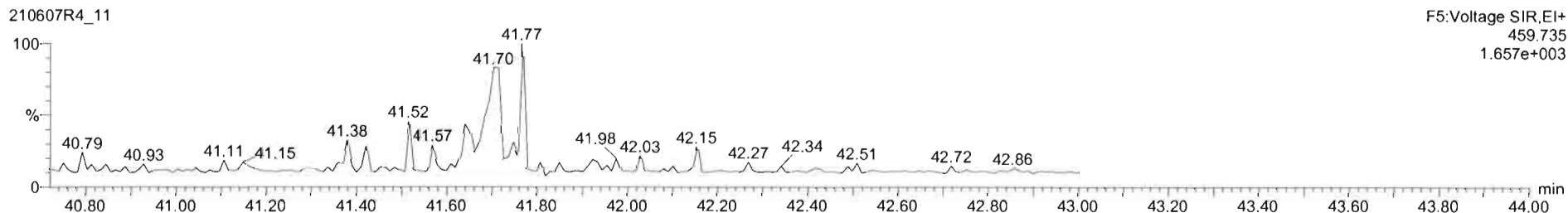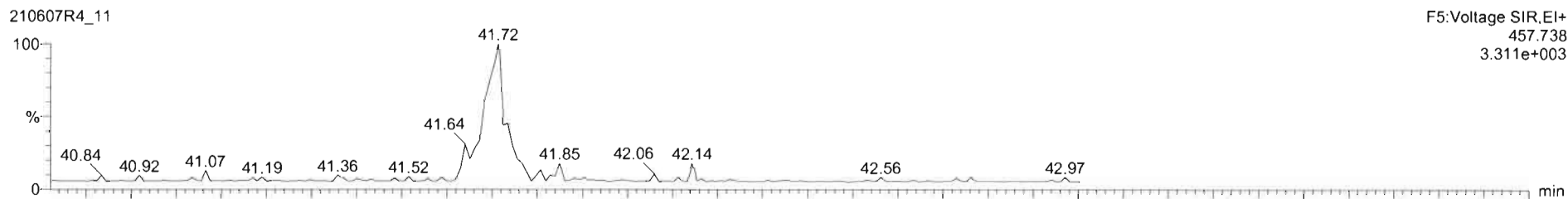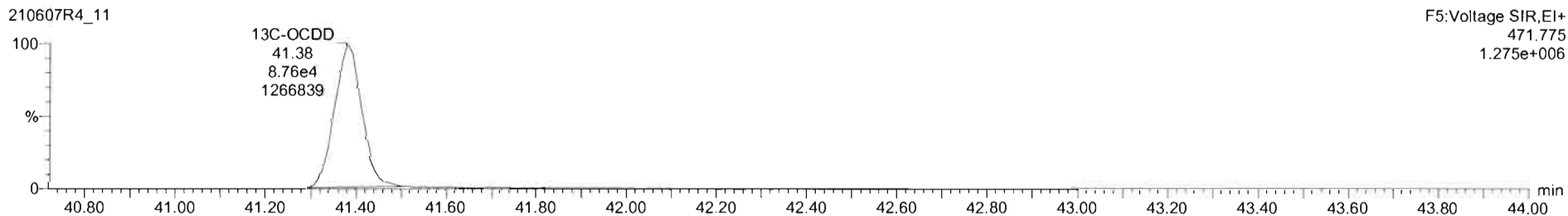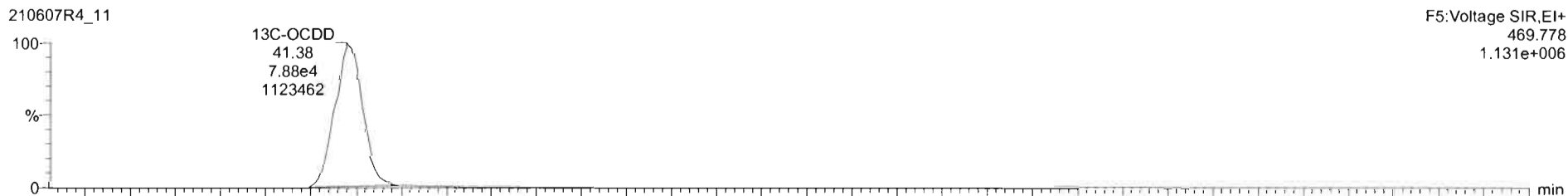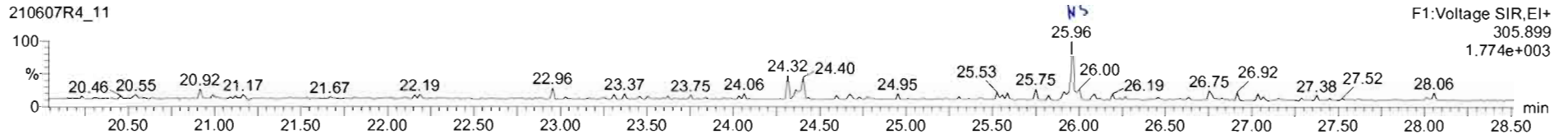
1,2,3,4,7,8-HxCDD
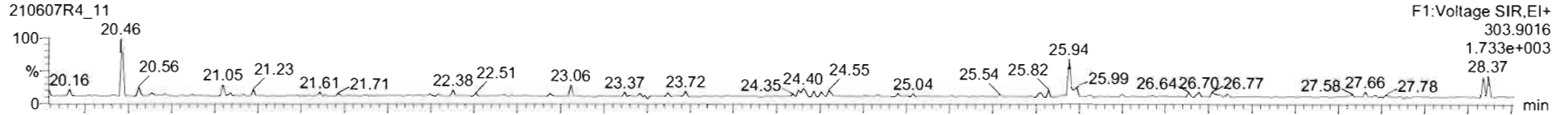

13C-1,2,3,4,7,8-HxCDD

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_10.qld

Last Altered: Tuesday, June 08, 2021 11:36:32 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:36:46 Pacific Daylight Time

Name: 210607R4_10, Date: 07-Jun-2021, Time: 20:43:11, ID: 2105037-01 SC-FB-2105030940 1.00168, Description: SC-FB-2105030940

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

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

Quantify Sample Report   **MassLynx 4.1 SCN815**

Vista Analytical Laboratory

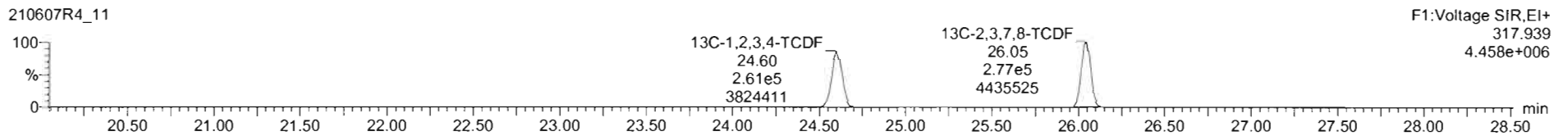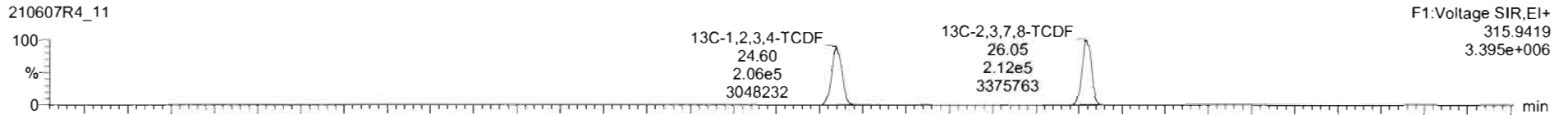Dataset: U:\VG12.PRO\Results\210607R4\210607R4_10.qld

Last Altered: Tuesday, June 08, 2021 11:36:32 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:36:46 Pacific Daylight Time

Name: 210607R4_10, Date: 07-Jun-2021, Time: 20:43:11, ID: 2105037-01 SC-FB-2105030940 1.00168, Description: SC-FB-2105030940
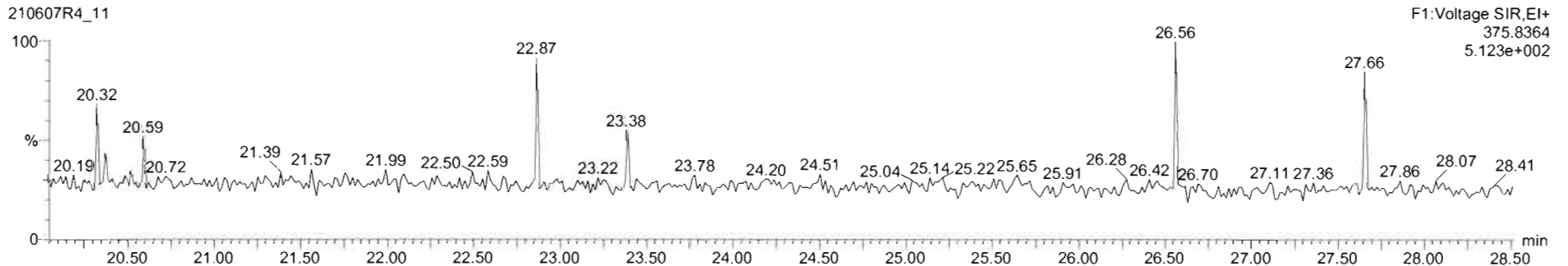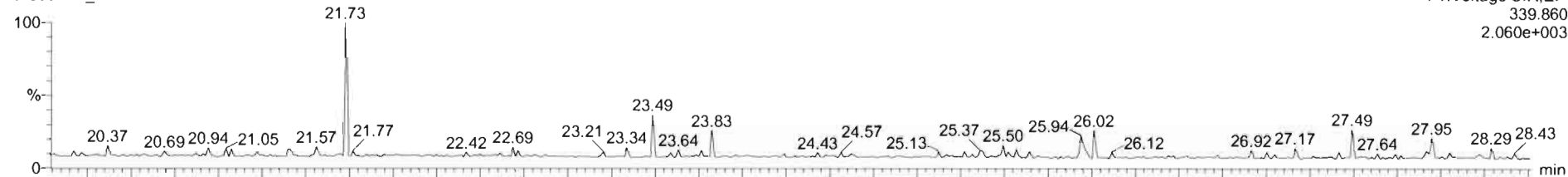
Dataset: U:\VG12.PRO\Results\210607R4\210607R4_10.qld

Last Altered: Tuesday, June 08, 2021 11:36:32 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:36:46 Pacific Daylight Time

Name: 210607R4_10, Date: 07-Jun-2021, Time: 20:43:11, ID: 2105037-01 SC-FB-2105030940 1.00168, Description: SC-FB-2105030940

2,3,7,8-TCDF

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

DPE1

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_10.qld

Last Altered: Tuesday, June 08, 2021 11:36:32 Pacific Daylight Time
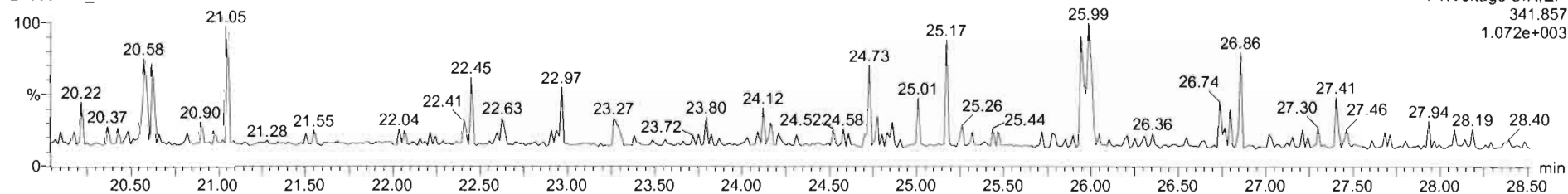Printed: Tuesday, June 08, 2021 11:36:46 Pacific Daylight Time

Name: 210607R4_10, Date: 07-Jun-2021, Time: 20:43:11, ID: 2105037-01 SC-FB-2105030940 1.00168, Description: SC-FB-2105030940

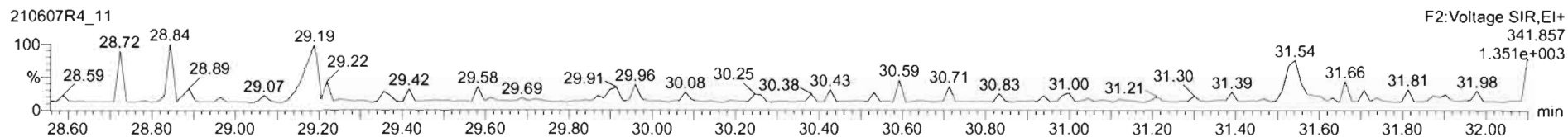**1st Func. Penta-Furans**

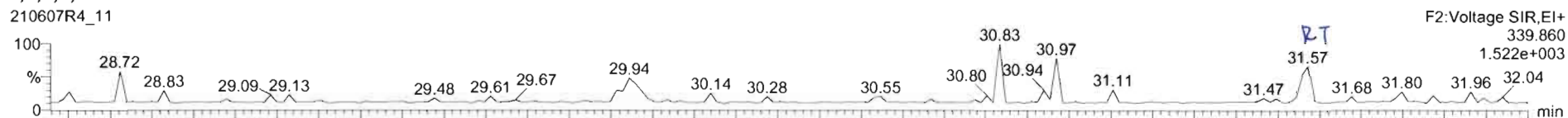**DPE6**

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_10.qld

Last Altered: Tuesday, June 08, 2021 11:36:32 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:36:46 Pacific Daylight Time

Name: 210607R4_10, Date: 07-Jun-2021, Time: 20:43:11, ID: 2105037-01 SC-FB-2105030940 1.00168, Description: SC-FB-2105030940

1,2,3,7,8-PeCDF

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

DPE2

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_10.qld
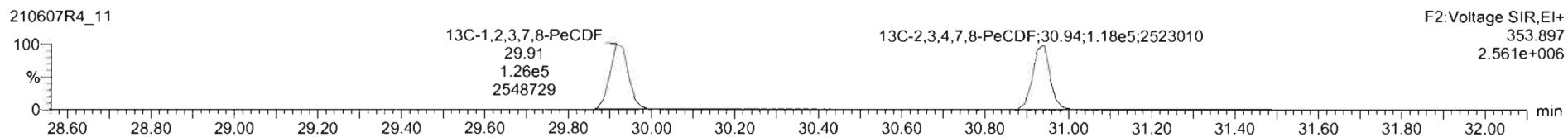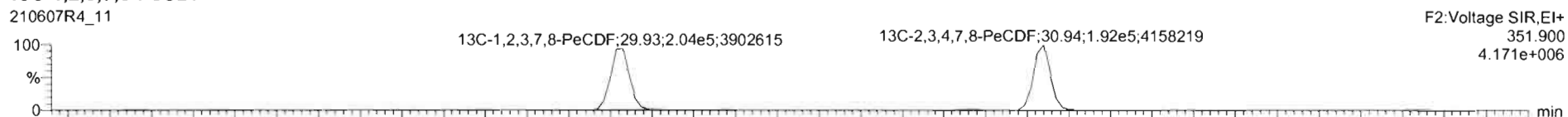
Last Altered: Tuesday, June 08, 2021 11:36:32 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:36:46 Pacific Daylight Time

Name: 210607R4_10, Date: 07-Jun-2021, Time: 20:43:11, ID: 2105037-01 SC-FB-2105030940 1.00168, Description: SC-FB-2105030940
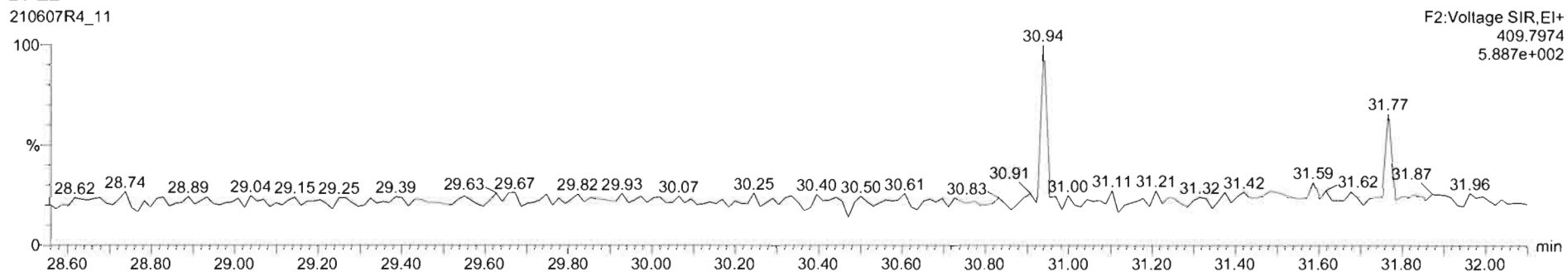
1,2,3,4,7,8-HxCDF

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

DPE3

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_10.qld

Last Altered: Tuesday, June 08, 2021 11:36:32 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:36:46 Pacific Daylight Time

Name: 210607R4_10, Date: 07-Jun-2021, Time: 20:43:11, ID: 2105037-01 SC-FB-2105030940 1.00168, Description: SC-FB-2105030940

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

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


DPE4

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_10.qld

Last Altered: Tuesday, June 08, 2021 11:36:32 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:36:46 Pacific Daylight Time

Name: 210607R4_10, Date: 07-Jun-2021, Time: 20:43:11, ID: 2105037-01 SC-FB-2105030940 1.00168, Description: SC-FB-2105030940

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_10.qld

Last Altered: Tuesday, June 08, 2021 11:36:32 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:36:46 Pacific Daylight Time

Name: 210607R4_10, Date: 07-Jun-2021, Time: 20:43:11, ID: 2105037-01 SC-FB-2105030940 1.00168, Description: SC-FB-2105030940

PFK1

PFK2

PFK3

PFK4

PFK5

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_11.qld
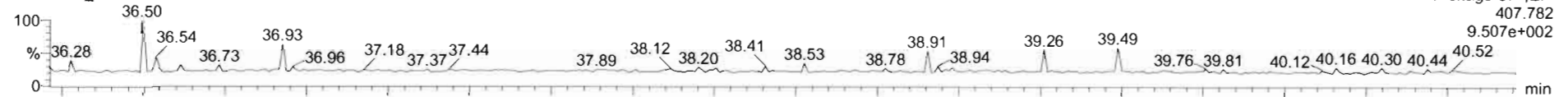
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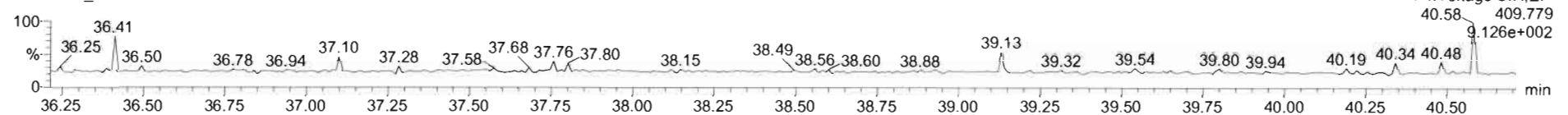Printed: Tuesday, June 08, 2021 14:26:23 Pacific Daylight Time

HN 06/08/21

GT 06/09/2021

Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210607R4_11, Date: 07-Jun-2021, Time: 21:27:26, ID: 2105037-02 SC-RB-2105030901 1.02432, Description: SC-RB-2105030901

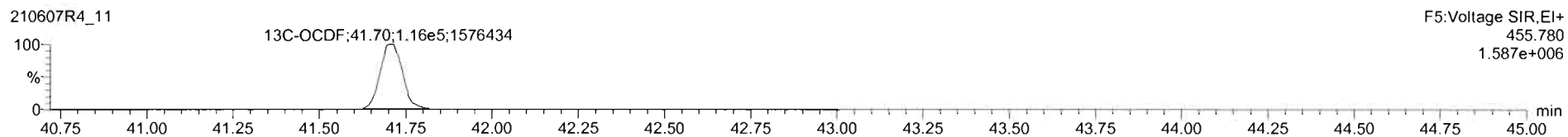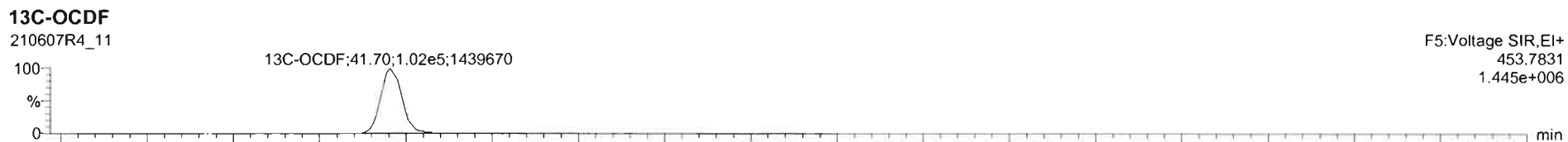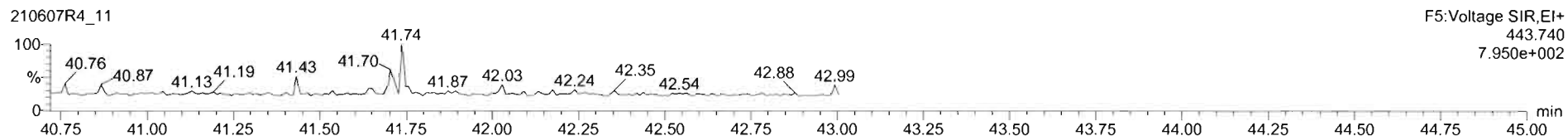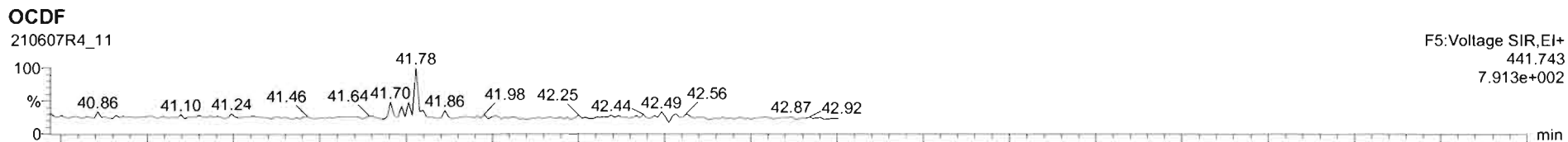|	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.929	1.024	26.698		1.001				0.370	
2	2 1,2,3,7,8-PeCDD			NO	0.826	1.024	31.136		1.001				0.547	
3	3 1,2,3,4,7,8-HxCDD			NO	0.972	1.024	34.508		1.001				0.633	
4	4 1,2,3,6,7,8-HxCDD			NO	0.877	1.024	34.634		1.001				0.670	
5	5 1,2,3,7,8,9-HxCDD			NO	0.874	1.024	34.905		1.000				0.645	
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.899	1.024	38.290		1.000				0.681	
7	7 OCDD			NO	0.852	1.024	41.388		1.000				1.25	
8	8 2,3,7,8-TCDF			NO	0.747	1.024	26.048		1.000				0.297	
9	9 1,2,3,7,8-PeCDF			NO	0.877	1.024	29.932		1.000				0.496	
10	10 2,3,4,7,8-PeCDF			NO	0.962	1.024	30.961		1.001				0.426	
11	11 1,2,3,4,7,8-HxCDF			NO	0.920	1.024	33.555		1.000				0.169	
12	12 1,2,3,6,7,8-HxCDF			NO	0.936	1.024	33.701		1.001				0.150	
13	13 2,3,4,6,7,8-HxCDF			NO	0.973	1.024	34.403		1.001				0.175	
14	14 1,2,3,7,8,9-HxCDF	4.42e1	1.47	YES	0.940	1.024	35.461	35.47	1.000	1.001	0.56842		0.145	0.515
15	15 1,2,3,4,6,7,8-HpCDF			NO	1.05	1.024	37.098		1.000				0.351	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.05	1.024	38.950		1.000				0.361	
17	17 OCDF			NO	0.771	1.024	41.712		1.000				0.873	
18	18 13C-2,3,7,8-TCDD	3.15e5	0.78	NO	1.10	1.024	26.640	26.67	1.027	1.028	1850.9	94.8	1.89	
19	19 13C-1,2,3,7,8-PeCDD	2.23e5	0.62	NO	0.864	1.024	31.016	31.10	1.196	1.199	1681.0	86.1	4.12	
20	20 13C-1,2,3,4,7,8-HxCDD	1.45e5	1.30	NO	0.746	1.024	34.475	34.49	1.014	1.014	1590.6	81.5	5.80	
21	21 13C-1,2,3,6,7,8-HxCDD	1.58e5	1.29	NO	0.847	1.024	34.594	34.61	1.017	1.018	1529.0	78.3	5.11	
22	22 13C-1,2,3,7,8,9-HxCDD	1.62e5	1.29	NO	0.868	1.024	34.894	34.90	1.026	1.026	1525.6	78.1	4.98	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.16e5	1.05	NO	0.664	1.024	38.243	38.28	1.125	1.126	1428.0	73.1	6.15	
24	24 13C-OCDD	1.66e5	0.90	NO	0.561	1.024	41.191	41.38	1.211	1.217	2431.9	62.3	6.64	
25	25 13C-2,3,7,8-TCDF	4.90e5	0.77	NO	1.09	1.024	26.030	26.05	1.003	1.004	1871.1	95.8	1.98	
26	26 13C-1,2,3,7,8-PeCDF	3.30e5	1.61	NO	0.809	1.024	29.748	29.93	1.147	1.154	1703.0	87.2	7.44	
27	27 13C-2,3,4,7,8-PeCDF	3.10e5	1.63	NO	0.803	1.024	30.708	30.94	1.184	1.193	1610.9	82.5	7.50	
28	28 13C-1,2,3,4,7,8-HxCDF	2.03e5	0.49	NO	1.01	1.024	33.547	33.54	0.987	0.986	1643.3	84.2	7.38	
29	29 13C-1,2,3,6,7,8-HxCDF	2.21e5	0.51	NO	1.07	1.024	33.676	33.68	0.990	0.990	1690.3	86.6	6.96	
30	30 13C-2,3,4,6,7,8-HxCDF	1.89e5	0.49	NO	0.910	1.024	34.366	34.38	1.011	1.011	1701.8	87.2	8.21	
31	31 13C-1,2,3,7,8,9-HxCDF	1.62e5	0.50	NO	0.828	1.024	35.444	35.45	1.042	1.042	1599.5	81.9	9.01	

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_11.qld

Last Altered: Tuesday, June 08, 2021 14:12:27 Pacific Daylight Time
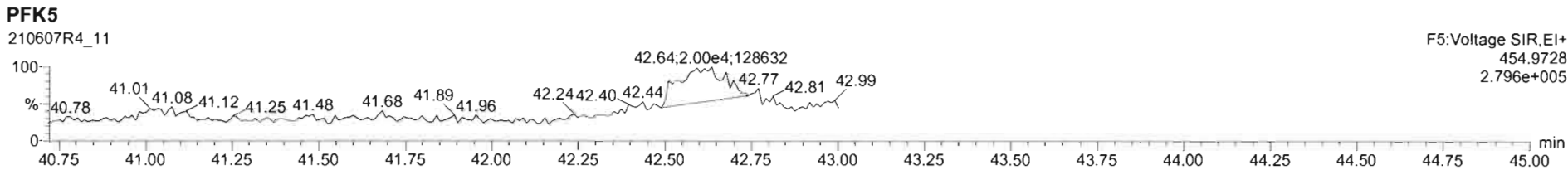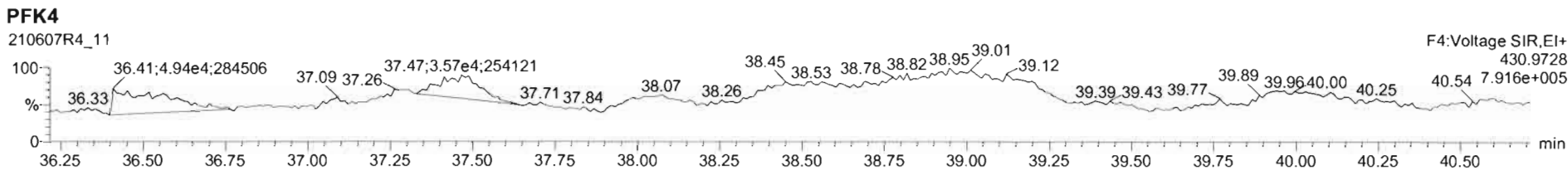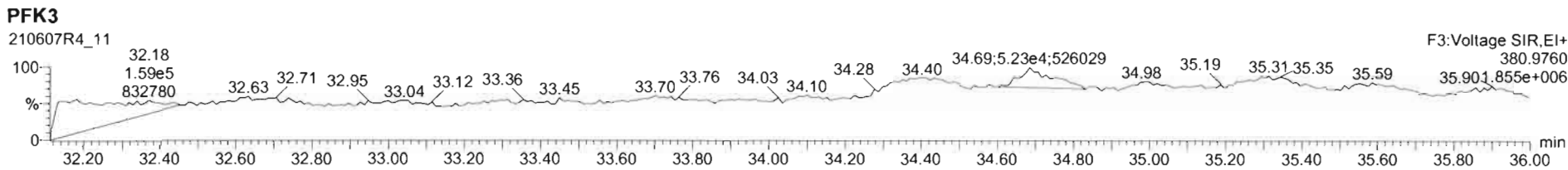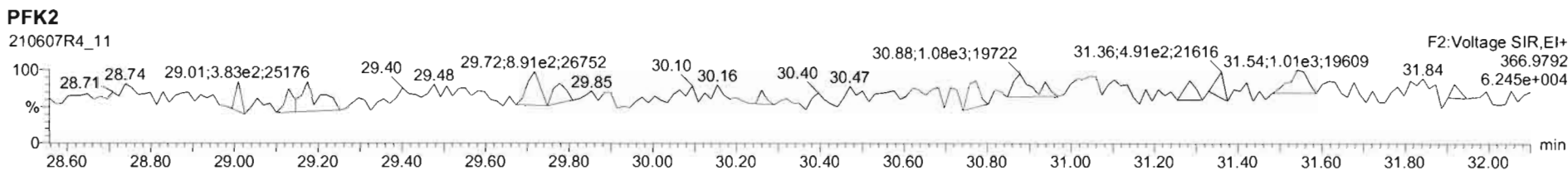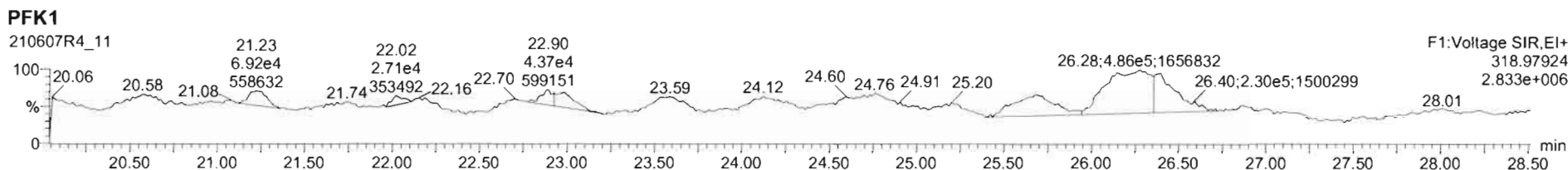Printed: Tuesday, June 08, 2021 14:26:23 Pacific Daylight Time

Name: 210607R4_11, Date: 07-Jun-2021, Time: 21:27:26, ID: 2105037-02 SC-RB-2105030901 1.02432, Description: SC-RB-2105030901

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.22e5	0.41	NO	0.661	1.024	37.053	37.08	1.090	1.090	1518.1	77.8	5.99	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.08e5	0.42	NO	0.566	1.024	38.814	38.94	1.141	1.145	1565.1	80.2	7.00	
34	34 13C-OCDF	2.18e5	0.88	NO	0.663	1.024	41.579	41.70	1.223	1.226	2697.3	69.1	5.94	
35	35 37Cl-2,3,7,8-TCDD	2.70e5			2.07	1.024	26.840	26.68	1.035	1.028	849.39	109	0.325	
36	36 13C-1,2,3,4-TCDD	3.01e5	0.77	NO	1.00	1.024	26.070	25.94	1.000	1.000	1952.5	100	2.09	
37	37 13C-1,2,3,4-TCDF	4.68e5	0.79	NO	1.00	1.024	24.760	24.60	1.000	1.000	1952.5	100	2.16	
38	38 13C-1,2,3,4,6,9-HxCDF	2.38e5	0.48	NO	1.00	1.024	34.040	34.01	1.000	1.000	1952.5	100	7.47	
39	39 Total Tetra-Dioxins				0.929	1.024	24.620		0.000				0.190	
40	40 Total Penta-Dioxins				0.826	1.024	29.960		0.000		0.00000		0.181	0.495
41	41 Total Hexa-Dioxins				0.877	1.024	33.635		0.000				0.514	
42	42 Total Hepta-Dioxins				0.899	1.024	37.640		0.000				0.408	
43	43 Total Tetra-Furans				0.747	1.024	23.610		0.000				0.193	
44	44 1st Func. Penta-Furans				0.877	1.024	27.620		0.000				0.118	
45	45 Total Penta-Furans				0.877	1.024	29.275		0.000				0.201	
46	46 Total Hexa-Furans				0.973	1.024	33.555		0.000		0.00000		0.108	0.515
47	47 Total Hepta-Furans				1.05	1.024	37.835		0.000				0.172	

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_11.qld

Last Altered: Tuesday, June 08, 2021 14:12:27 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 14:26:23 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210607R4_11, Date: 07-Jun-2021, Time: 21:27:26, ID: 2105037-02 SC-RB-2105030901 1.02432, Description: SC-RB-2105030901

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	31.54	4.520e2	2.445e3	1.809e1	1.236e2	0.15	YES	0.000e0	0.00000	0.49513	0.181

Hexa-Dioxins

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

Hepta-Dioxins

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

Tetra-Furans

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

Penta-Furans function 1

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

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_11.qld

Last Altered: Tuesday, June 08, 2021 14:12:27 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 14:26:23 Pacific Daylight Time

Name: 210607R4_11, Date: 07-Jun-2021, Time: 21:27:26, ID: 2105037-02 SC-RB-2105030901 1.02432, Description: SC-RB-2105030901

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	35.47	6.590e2	3.980e2	2.636e1	1.788e1	1.47	YES	4.423e1	0.00000	0.51457	0.145

Hepta-Furans

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

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_11.qld

Last Altered: Tuesday, June 08, 2021 11:36:53 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:37:15 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38
**Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26**

Name: 210607R4_11, Date: 07-Jun-2021, Time: 21:27:26, ID: 2105037-02 SC-RB-2105030901 1.02432, Description: SC-RB-2105030901

2,3,7,8-TCDD

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

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_11.qld

Last Altered: Tuesday, June 08, 2021 11:36:53 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:37:15 Pacific Daylight Time

Name: 210607R4_11, Date: 07-Jun-2021, Time: 21:27:26, ID: 2105037-02 SC-RB-2105030901 1.02432, Description: SC-RB-2105030901

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

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

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_11.qld

Last Altered: Tuesday, June 08, 2021 11:36:53 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:37:15 Pacific Daylight Time

Name: 210607R4_11, Date: 07-Jun-2021, Time: 21:27:26, ID: 2105037-02 SC-RB-2105030901 1.02432, Description: SC-RB-2105030901
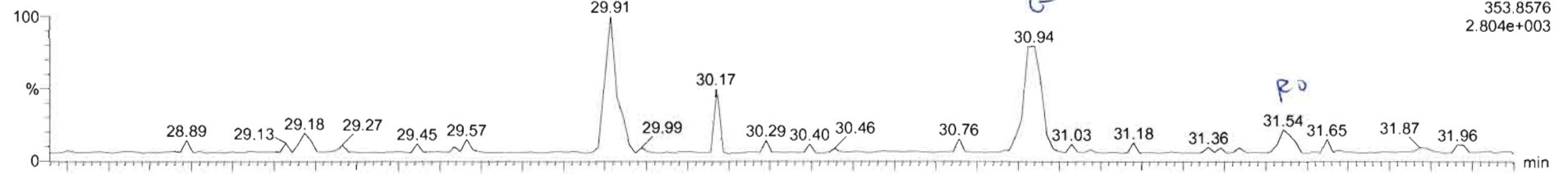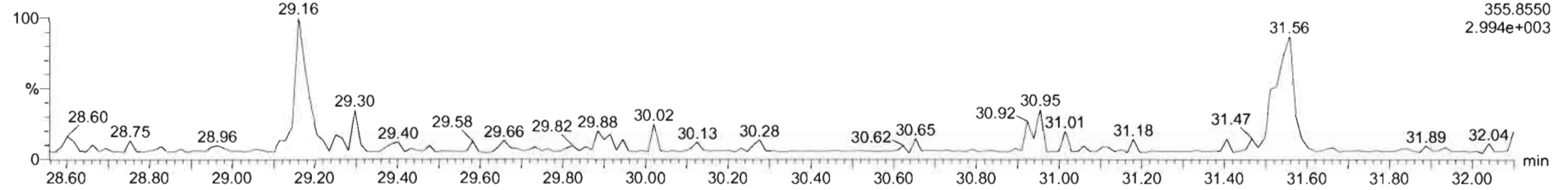
1,2,3,7,8-PeCDD

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

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9291	1.024					0.190	
40	Total Penta-Dioxins				0.8257	1.024			0.000		0.181	0.495
41	Total Hexa-Dioxins				0.8771	1.024					0.514	
42	Total Hepta-Dioxins				0.8967	1.024					0.408	
43	Total Tetra-Furans				0.7466	1.024					0.193	
44	1st Func Penta-Furans				0.8771	1.024					0.118	

	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Penta-Dioxins	31.54	1.809e1	1.236e2	0.15	YES	0.49513	0.00000

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_11.qld

Last Altered: Tuesday, June 08, 2021 11:36:53 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:37:15 Pacific Daylight Time

Name: 210607R4_11, Date: 07-Jun-2021, Time: 21:27:26, ID: 2105037-02 SC-RB-2105030901 1.02432, Description: SC-RB-2105030901

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_11.qld

Last Altered: Tuesday, June 08, 2021 11:36:53 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:37:15 Pacific Daylight Time

Name: 210607R4_11, Date: 07-Jun-2021, Time: 21:27:26, ID: 2105037-02 SC-RB-2105030901 1.02432, Description: SC-RB-2105030901

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

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

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_11.qld

Last Altered: Tuesday, June 08, 2021 11:36:53 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:37:15 Pacific Daylight Time

Name: 210607R4_11, Date: 07-Jun-2021, Time: 21:27:26, ID: 2105037-02 SC-RB-2105030901 1.02432, Description: SC-RB-2105030901

OCDD

13C-OCDD

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_11.qld

Last Altered: Tuesday, June 08, 2021 11:36:53 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:37:15 Pacific Daylight Time

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Name: 210607R4_11, Date: 07-Jun-2021, Time: 21:27:26, ID: 2105037-02 SC-RB-2105030901 1.02432, Description: SC-RB-2105030901

2,3,7,8-TCDF

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

DPE1

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_11.qld

Last Altered: Tuesday, June 08, 2021 11:36:53 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:37:15 Pacific Daylight Time

Name: 210607R4_11, Date: 07-Jun-2021, Time: 21:27:26, ID: 2105037-02 SC-RB-2105030901 1.02432, Description: SC-RB-2105030901

1st Func. Penta-Furans
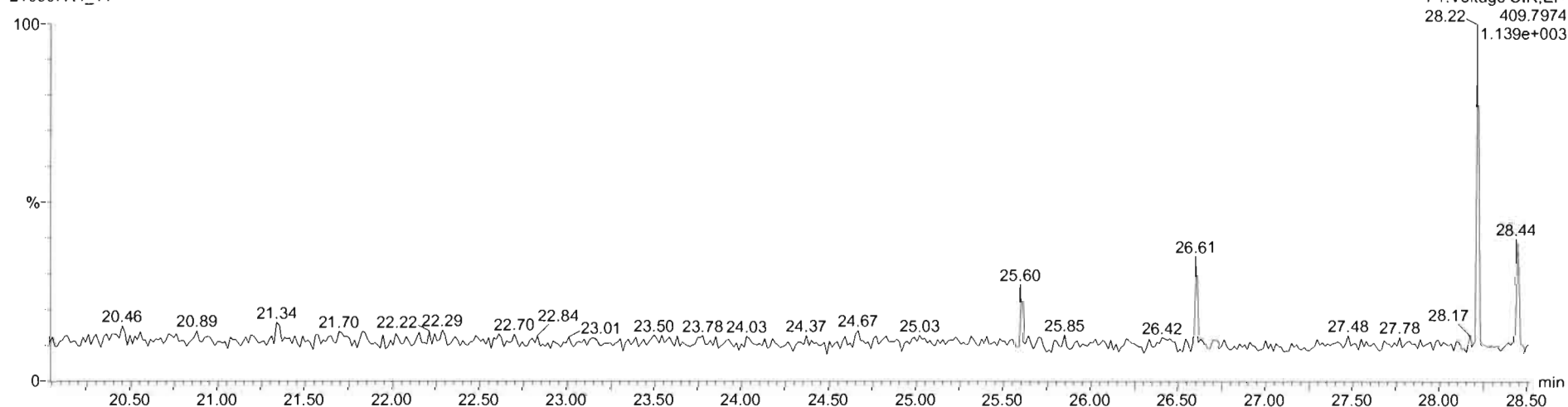
DPE6

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_11.qld

Last Altered: Tuesday, June 08, 2021 11:36:53 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:37:15 Pacific Daylight Time

Name: 210607R4_11, Date: 07-Jun-2021, Time: 21:27:26, ID: 2105037-02 SC-RB-2105030901 1.02432, Description: SC-RB-2105030901

1,2,3,7,8-PeCDF

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

DPE2

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_11.qld

Last Altered: Tuesday, June 08, 2021 11:36:53 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:37:15 Pacific Daylight Time

Name: 210607R4_11, Date: 07-Jun-2021, Time: 21:27:26, ID: 2105037-02 SC-RB-2105030901 1.02432, Description: SC-RB-2105030901

1,2,3,4,7,8-HxCDF
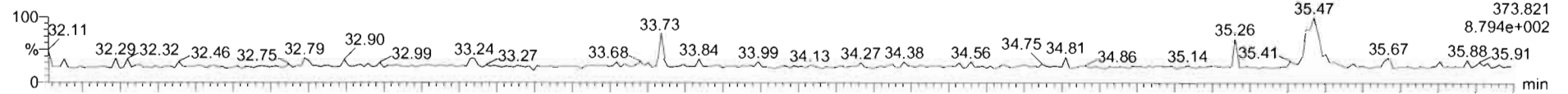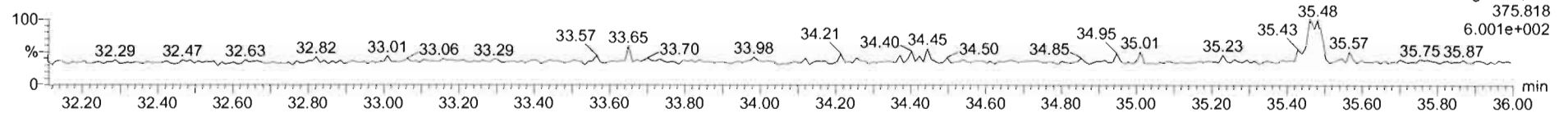
13C-1,2,3,4,7,8-HxCDF
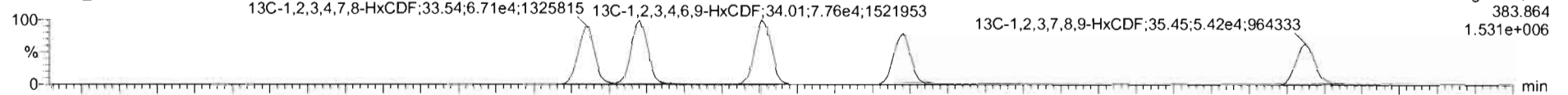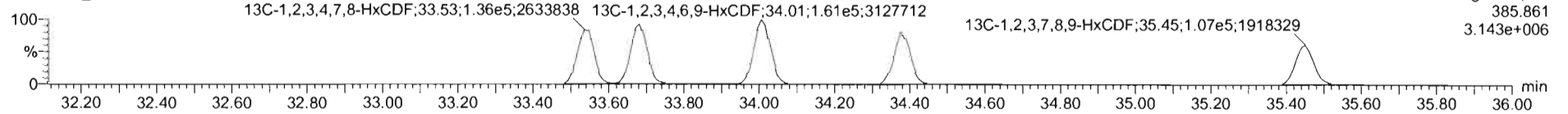
DPE3
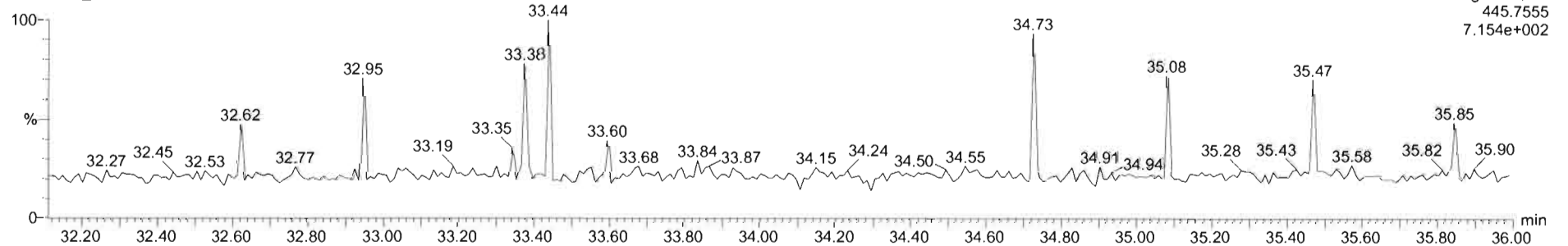
210607R4_11 - 2105037-02 SC-RB-2105030901 1.02432 - SC-RB-2105030901

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
46	Total Hexa-Furans				0.9725	1.024			0.000		0.108	0.515
47	Total Hepta-Furans				1.0481	1.024					0.172	
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											

	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	1,2,3,7,8,9-HxCDF	35.47	2.636e1	1.788e1	1.47	YES	0.51457	0.00000

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_11.qld

Last Altered: Tuesday, June 08, 2021 11:36:53 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:37:15 Pacific Daylight Time

Name: 210607R4_11, Date: 07-Jun-2021, Time: 21:27:26, ID: 2105037-02 SC-RB-2105030901 1.02432, Description: SC-RB-2105030901

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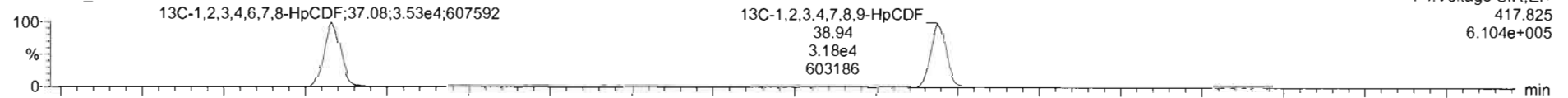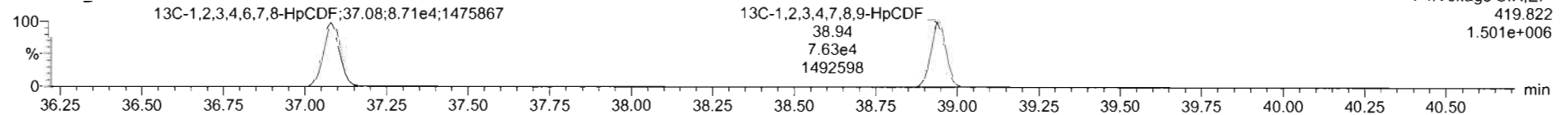
13C-1,2,3,4,6,7,8-HpCDF

DPE4

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_11.qld

Last Altered: Tuesday, June 08, 2021 11:36:53 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:37:15 Pacific Daylight Time

Name: 210607R4_11, Date: 07-Jun-2021, Time: 21:27:26, ID: 2105037-02 SC-RB-2105030901 1.02432, Description: SC-RB-2105030901

OCDF

13C-OCDF

DPE5

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_11.qld

Last Altered: Tuesday, June 08, 2021 11:36:53 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:37:15 Pacific Daylight Time

Name: 210607R4_11, Date: 07-Jun-2021, Time: 21:27:26, ID: 2105037-02 SC-RB-2105030901 1.02432, Description: SC-RB-2105030901

CONTINUING CALIBRATION

HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calbration ID: _ST210524R1-1_

End Calibration ID: _ST210524R2-1_
_ST210524R2-2_ ✓

Reviewed By: _____ Hz 5·26·2021
Initials & Date

	Beg.	End
Ion abundance within QC limits?	✓	✓
Concentrations within criteria?	✓	✓
TCDD/TCDF Valleys <25%	✓	✓
First and last eluters present?	✓	✓
Retention Times within criteria?	✓	✓
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	✓	✓
Forms signed and dated?	✓	✓
Correct ICAL referenced?	HN	HN

Run Log:

	Beg.	End
- Correct instrument listed?	✓	✓
- Samples within 12 hour clock?	Y	N
- Bottle position verfied?	HN	

	Beg.	End
Mass resolution >	✓	✓

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

	Beg.	End
Intergrated peaks display correctly?	✓	✓

GC Break <20%   NA

8280 CS1 End Standard:

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

Comments:

Dataset: U:\VG12.PRO\Results\210524R1\210524R1_1.qld

Last Altered: Tuesday, May 25, 2021 09:04:00 Pacific Daylight Time
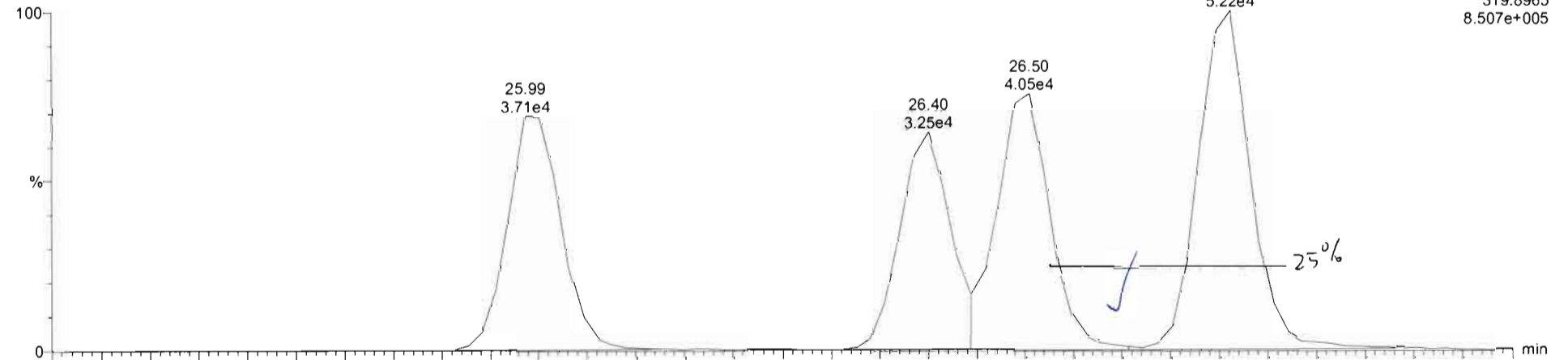Printed: Tuesday, May 25, 2021 09:04:27 Pacific Daylight Time

HN 05/25/21

HZ 5-26-2021

Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26
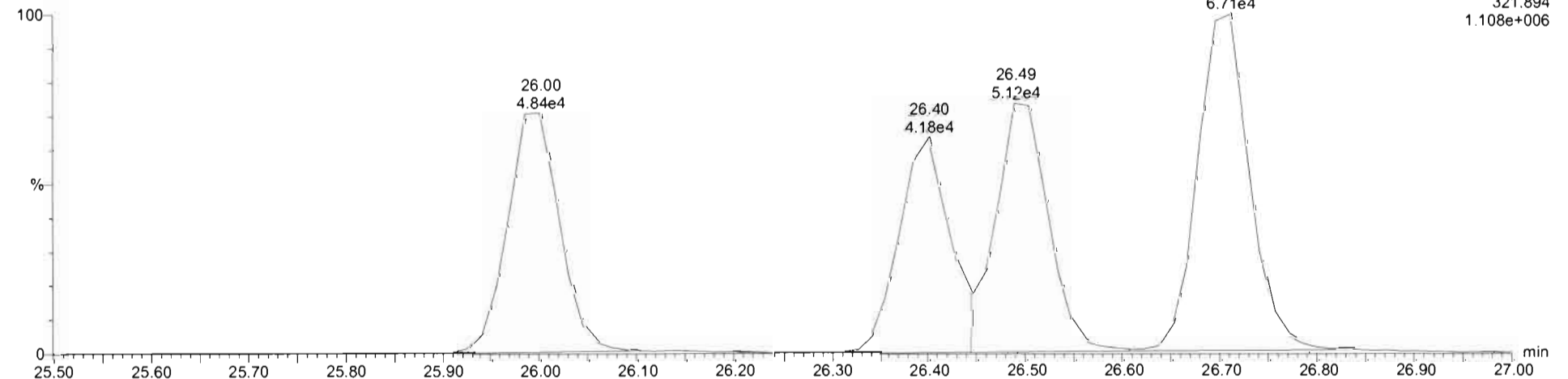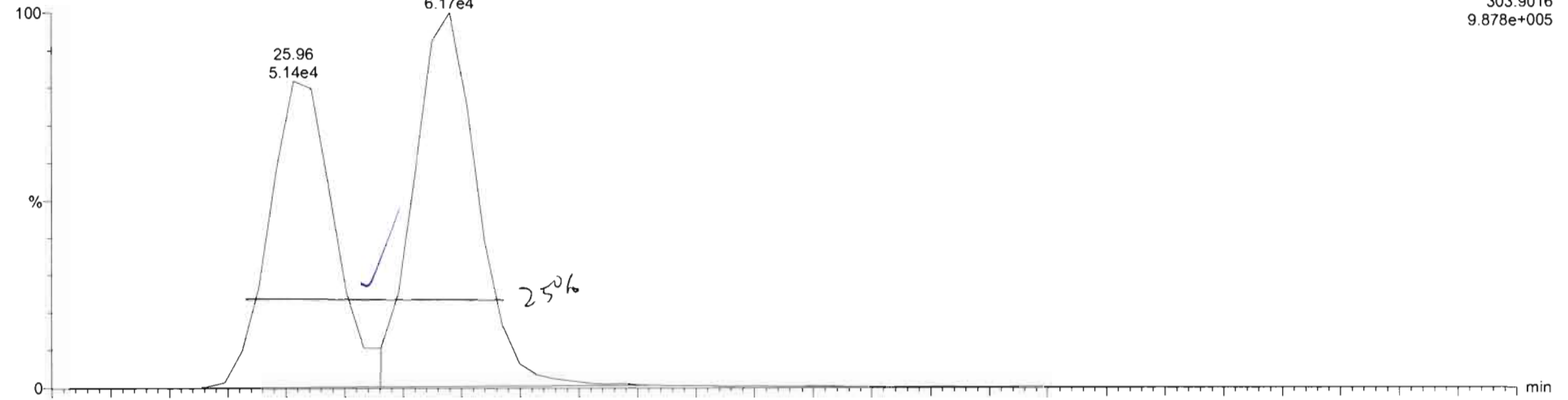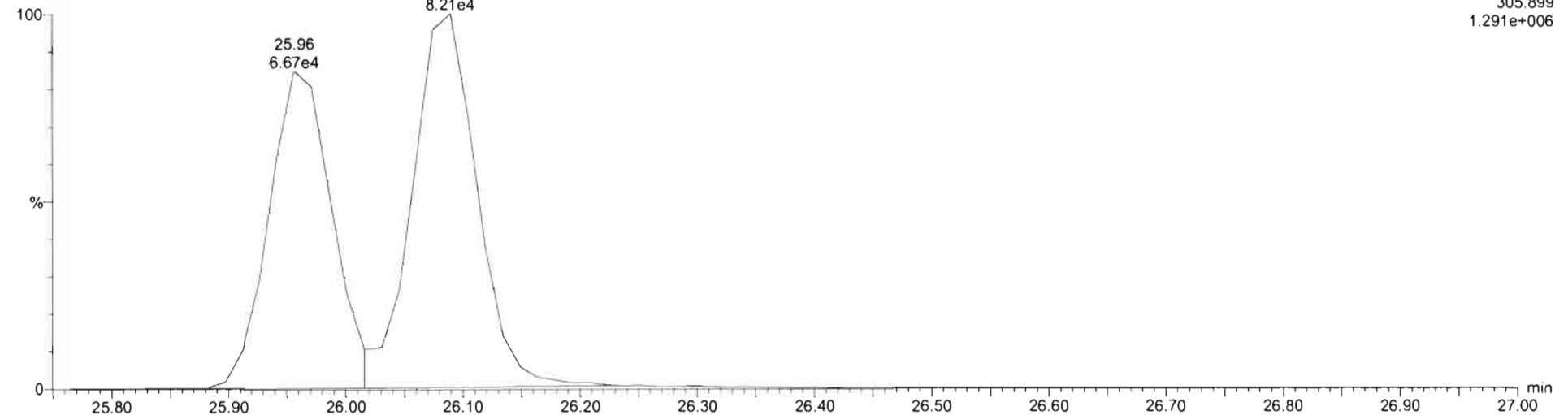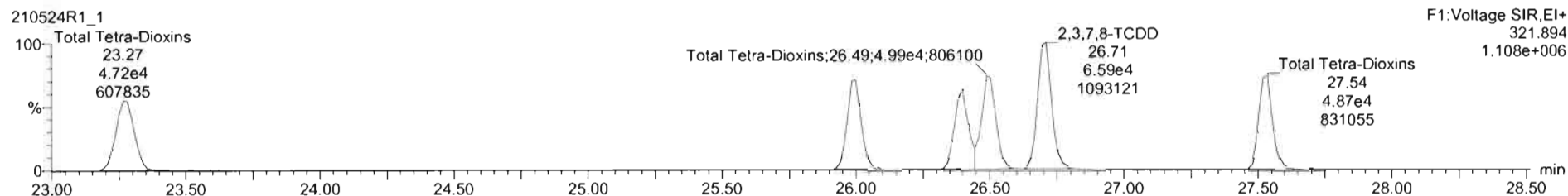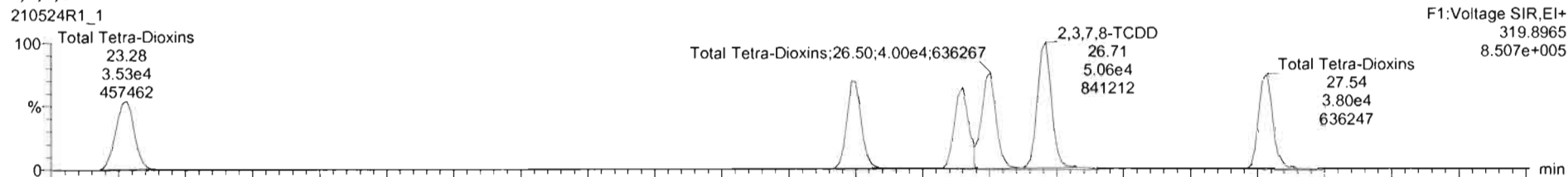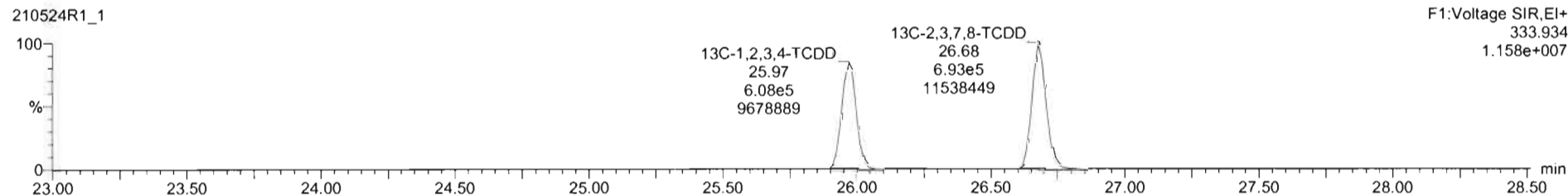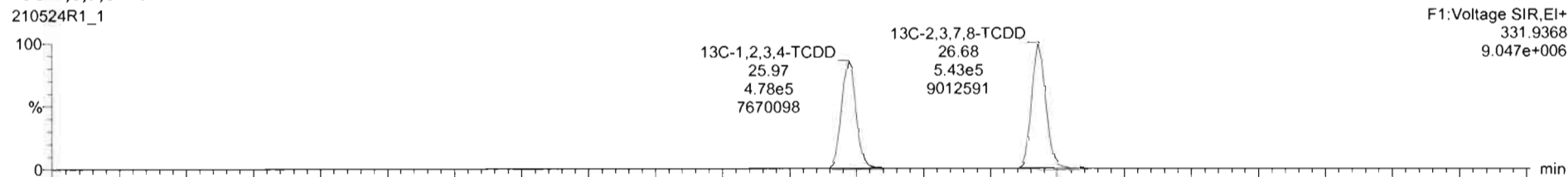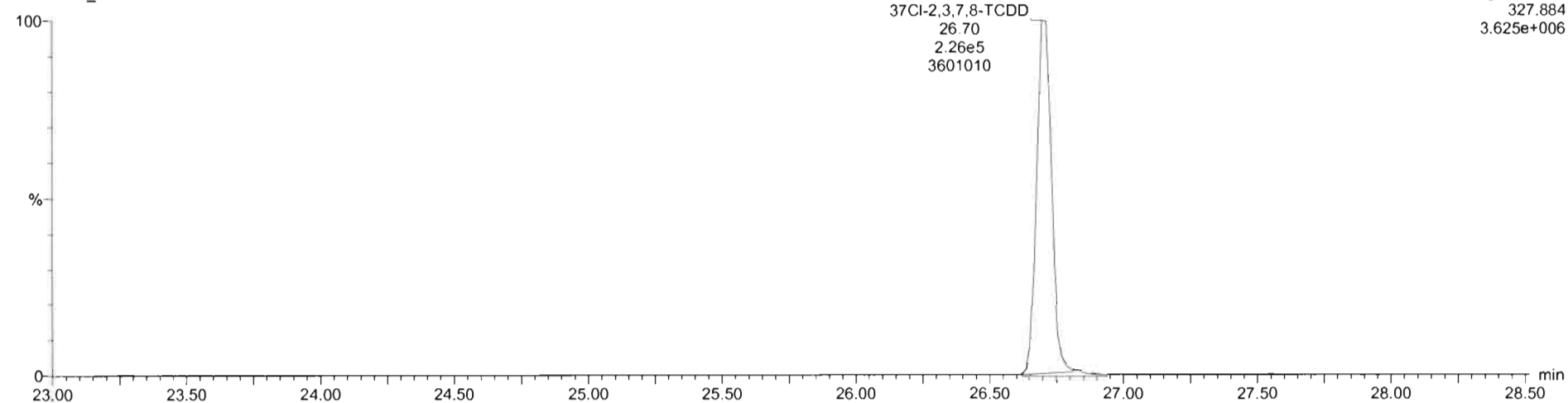
Name: 210524R1_1, Date: 24-May-2021, Time: 11:58:43, ID: ST210524R1_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

#	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	1.16e5	1.24e6	0.77	NO	0.929	26.71	26.71	NO	1.001	1.001	10.151	102	NO
2	2 1,2,3,7,8-PeCDD	4.00e5	9.26e5	0.60	NO	0.826	31.14	31.12	NO	1.001	1.000	52.334	105	NO
3	3 1,2,3,4,7,8-HxCDD	3.55e5	6.63e5	1.27	NO	0.972	34.47	34.47	NO	1.001	1.001	54.968	110	NO
4	4 1,2,3,6,7,8-HxCDD	3.71e5	7.88e5	1.29	NO	0.877	34.60	34.59	NO	1.001	1.000	53.610	107	NO
5	5 1,2,3,7,8,9-HxCDD	3.67e5	7.65e5	1.30	NO	0.874	34.87	34.87	NO	1.000	1.000	54.919	110	NO
6	6 1,2,3,4,6,7,8-HpCDD	2.75e5	5.76e5	1.04	NO	0.899	38.25	38.26	NO	1.000	1.001	53.217	106	NO
7	7 OCDD	4.34e5	9.54e5	0.88	NO	0.852	41.31	41.32	NO	1.000	1.000	106.76	107	NO
8	8 2,3,7,8-TCDF	1.44e5	1.77e6	0.76	NO	0.747	26.06	26.09	NO	1.000	1.001	10.869	109	NO
9	9 1,2,3,7,8-PeCDF	6.07e5	1.25e6	1.57	NO	0.877	29.93	29.93	NO	1.000	1.000	55.451	111	NO
10	10 2,3,4,7,8-PeCDF	6.83e5	1.32e6	1.57	NO	0.962	30.95	30.94	NO	1.001	1.000	53.954	108	NO
11	11 1,2,3,4,7,8-HxCDF	4.61e5	9.40e5	1.22	NO	0.920	33.52	33.52	NO	1.000	1.000	53.276	107	NO
12	12 1,2,3,6,7,8-HxCDF	5.22e5	1.05e6	1.22	NO	0.936	33.67	33.67	NO	1.001	1.001	52.867	106	NO
13	13 2,3,4,6,7,8-HxCDF	4.58e5	8.79e5	1.25	NO	0.973	34.36	34.36	NO	1.001	1.001	53.596	107	NO
14	14 1,2,3,7,8,9-HxCDF	3.80e5	7.57e5	1.25	NO	0.940	35.43	35.44	NO	1.000	1.001	53.397	107	NO
15	15 1,2,3,4,6,7,8-HpCDF	3.61e5	6.59e5	1.03	NO	1.05	37.05	37.05	NO	1.000	1.000	52.298	105	NO
16	16 1,2,3,4,7,8,9-HpCDF	3.02e5	5.50e5	1.01	NO	1.05	38.91	38.90	NO	1.000	1.000	52.496	105	NO
17	17 OCDF	5.09e5	1.24e6	0.88	NO	0.771	41.65	41.65	NO	1.000	1.000	106.36	106	NO
18	18 13C-2,3,7,8-TCDD	1.24e6	1.09e6	0.78	NO	1.10	26.67	26.68	NO	1.027	1.027	103.02	103	NO
19	19 13C-1,2,3,7,8-PeCDD	9.26e5	1.09e6	0.63	NO	0.864	31.05	31.10	NO	1.196	1.198	98.745	98.7	NO
20	20 13C-1,2,3,4,7,8-HxCDD	6.63e5	1.01e6	1.29	NO	0.746	34.44	34.44	NO	1.014	1.014	87.873	87.9	NO
21	21 13C-1,2,3,6,7,8-HxCDD	7.88e5	1.01e6	1.29	NO	0.847	34.56	34.58	NO	1.017	1.018	91.990	92.0	NO
22	22 13C-1,2,3,7,8,9-HxCDD	7.65e5	1.01e6	1.26	NO	0.868	34.86	34.86	NO	1.026	1.026	87.116	87.1	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.76e5	1.01e6	1.06	NO	0.664	38.21	38.24	NO	1.125	1.125	85.700	85.7	NO
24	24 13C-OCDD	9.54e5	1.01e6	0.90	NO	0.561	41.15	41.31	NO	1.211	1.216	168.24	84.1	NO
25	25 13C-2,3,7,8-TCDF	1.77e6	1.66e6	0.79	NO	1.09	26.06	26.06	NO	1.003	1.003	97.696	97.7	NO
26	26 13C-1,2,3,7,8-PeCDF	1.25e6	1.66e6	1.59	NO	0.809	29.78	29.93	NO	1.147	1.152	93.055	93.1	NO
27	27 13C-2,3,4,7,8-PeCDF	1.32e6	1.66e6	1.60	NO	0.803	30.74	30.92	NO	1.184	1.191	98.874	98.9	NO
28	28 13C-1,2,3,4,7,8-HxCDF	9.40e5	1.01e6	0.51	NO	1.01	33.52	33.51	NO	0.987	0.986	91.894	91.9	NO
29	29 13C-1,2,3,6,7,8-HxCDF	1.05e6	1.01e6	0.51	NO	1.07	33.64	33.65	NO	0.990	0.990	97.088	97.1	NO
30	30 13C-2,3,4,6,7,8-HxCDF	8.79e5	1.01e6	0.52	NO	0.910	34.33	34.34	NO	1.011	1.011	95.488	95.5	NO
31	31 13C-1,2,3,7,8,9-HxCDF	7.57e5	1.01e6	0.50	NO	0.828	35.41	35.42	NO	1.042	1.043	90.260	90.3	NO

Dataset: U:\VG12.PRO\Results\210524R1\210524R1_1.qld

Last Altered: Tuesday, May 25, 2021 09:04:00 Pacific Daylight Time
Printed: Tuesday, May 25, 2021 09:04:27 Pacific Daylight Time

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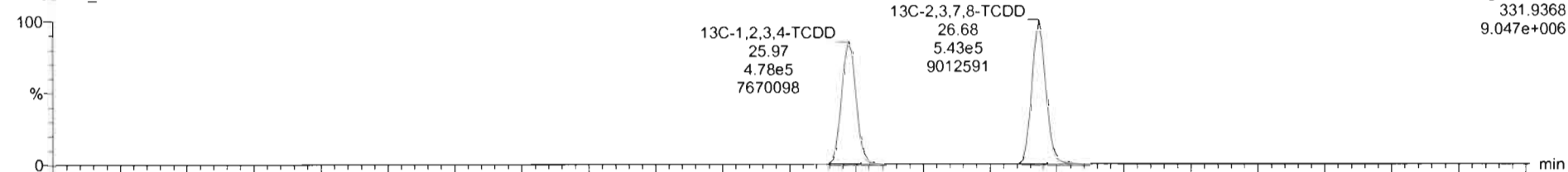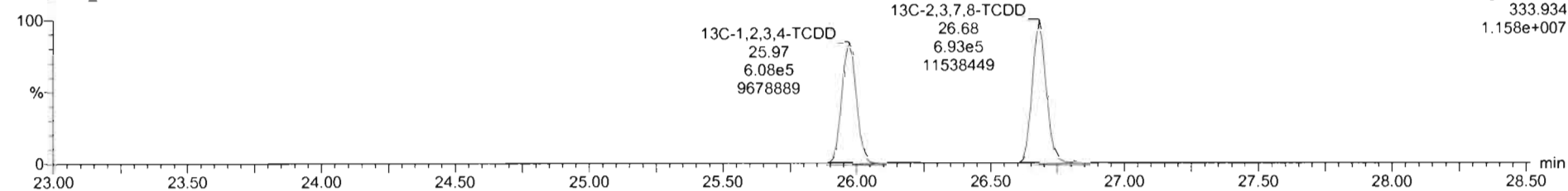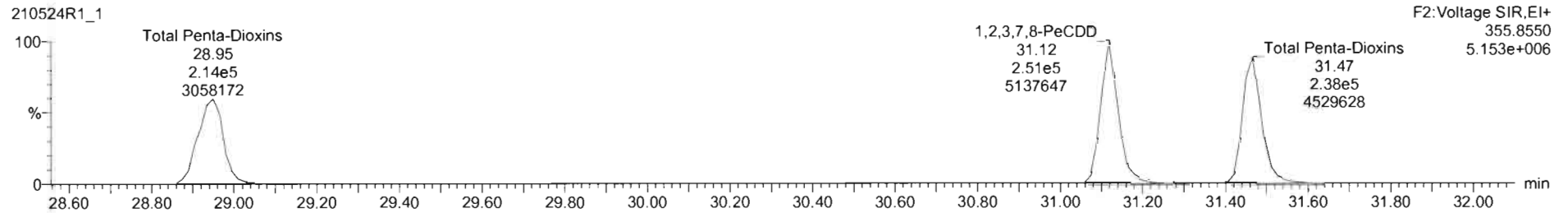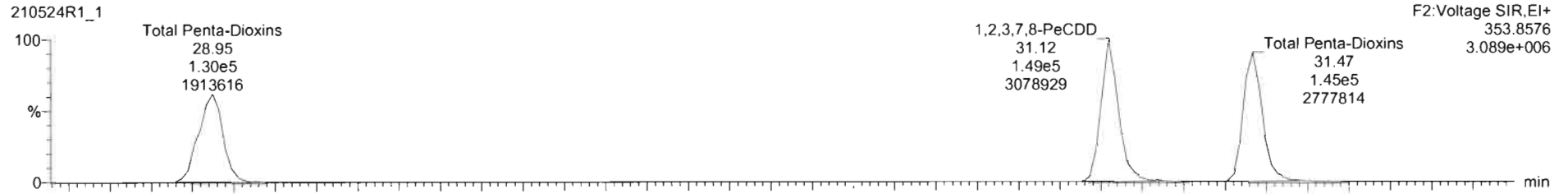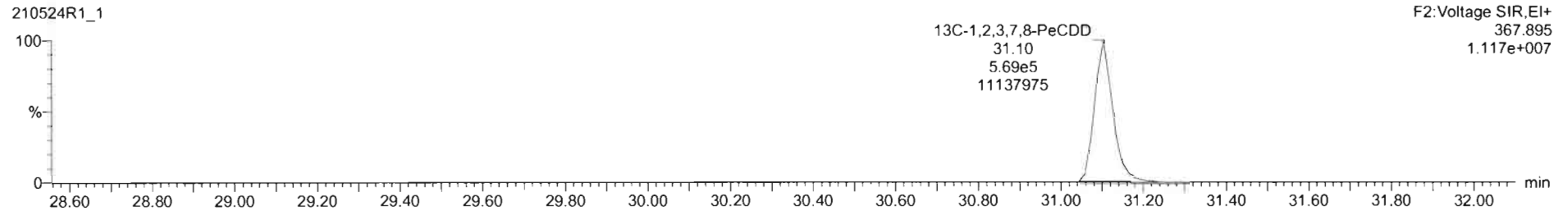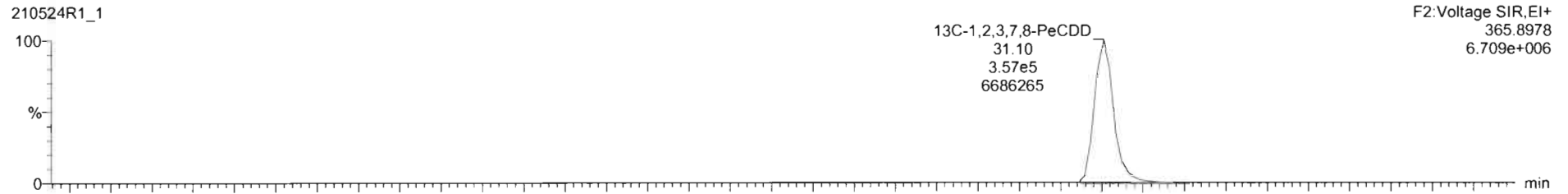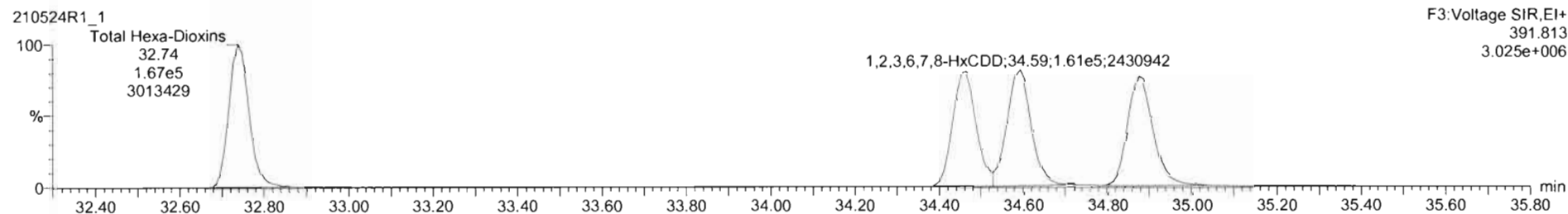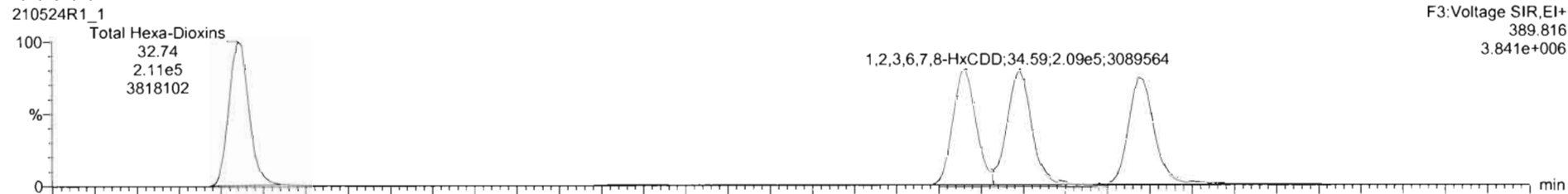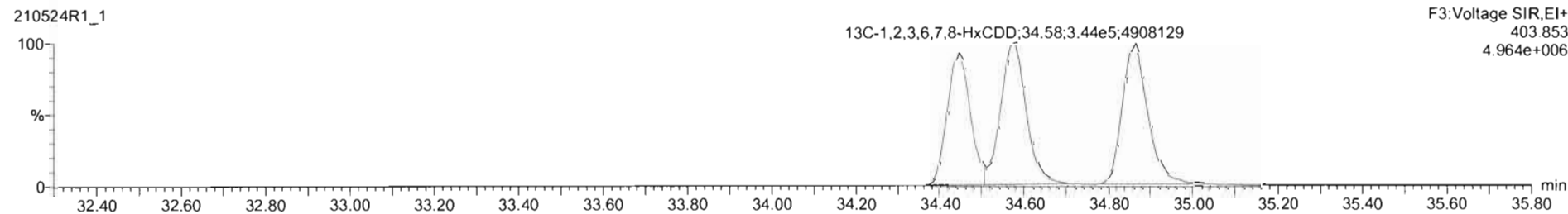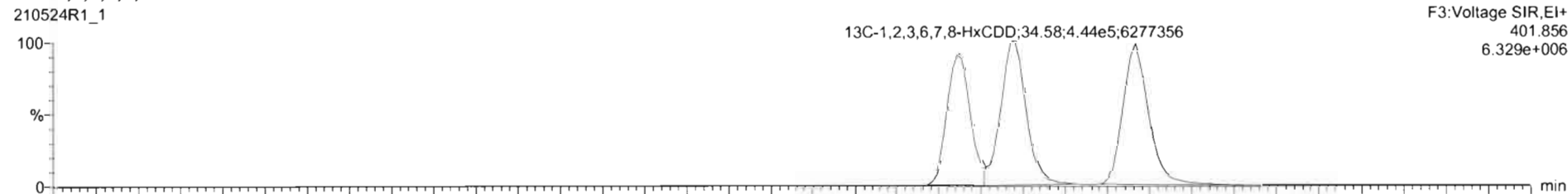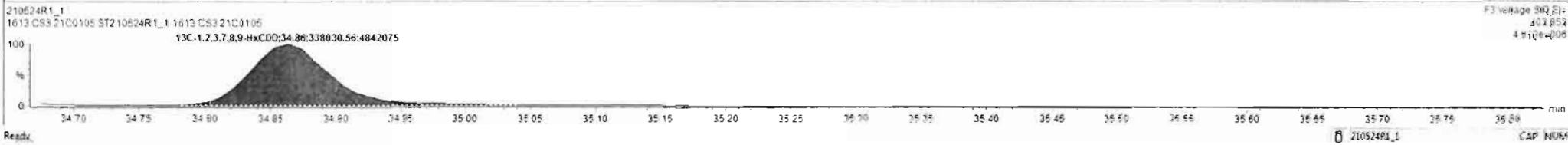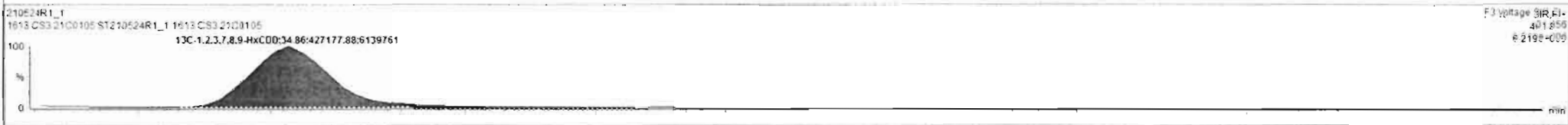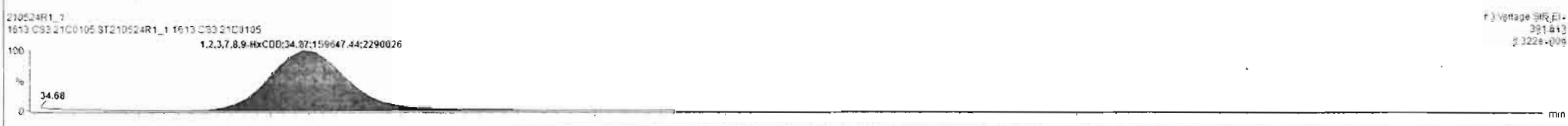
	# Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	32 13C-1,2,3,4,6,7,8-HpCDF	6.59e5	1.01e6	0.45	NO	0.661	37.02	37.04	NO	1.090	1.090	98.569	98.6	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.50e5	1.01e6	0.43	NO	0.566	38.78	38.89	NO	1.141	1.145	96.150	96.1	NO
34	34 13C-OCDF	1.24e6	1.01e6	0.90	NO	0.663	41.54	41.64	NO	1.223	1.226	184.99	92.5	NO
35	35 37Cl-2,3,7,8-TCDD	2.26e5	1.09e6			2.07	26.87	26.70	NO	1.035	1.028	10.084	101	NO
36	36 13C-1,2,3,4-TCDD	1.09e6	1.09e6	0.79	NO	1.00	26.07	25.97	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.66e6	1.66e6	0.79	NO	1.00	24.76	24.64	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	1.01e6	1.01e6	0.51	NO	1.00	34.04	33.97	NO	1.000	1.000	100.00	100	YES ok

Dataset: Untitled

Last Altered: Tuesday, May 25, 2021 09:07:20 Pacific Daylight Time
Printed: Tuesday, May 25, 2021 09:07:33 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

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

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1	210524R1_1	ST210524R1_1 1613 CS3 21C0105	24-May-21	11:58:43
2	210524R1_2	SOLVENT BLANK	24-May-21	12:47:32
3	210524R1_3	B1E0143-BLK1 Method Blank 1	24-May-21	13:33:13
4	210524R1_4	B1E0184-BLK1 Method Blank 1	24-May-21	14:19:27
5	210524R1_5	B1E0183-BLK1 Method Blank 1	24-May-21	15:05:02
6	210524R1_6	B1E0193-BLK1 Method Blank 1	24-May-21	15:52:08
7	210524R1_7	B1E0184-BS1 OPR 1	24-May-21	16:38:54
8	210524R1_8	B1E0193-BS1 OPR 1	24-May-21	17:23:08
9	210524R1_9	B1E0183-BS1 OPR 1	24-May-21	18:07:22
10	210524R1_10	B1E0183-MS1 Matrix Spike 1002.19	24-May-21	18:51:38
11	210524R1_11	B1E0183-MSD1 Matrix Spike Dup 1018.06	24-May-21	19:35:53
12	210524R1_12	SOLVENT BLANK	24-May-21	20:20:07
13	210524R1_13	2105037-01 SC-FB-2105030940 1.00168	24-May-21	21:04:21
14	210524R1_14	2105037-02 SC-RB-2105030901 1.02432	24-May-21	21:48:35
15	210524R1_15	2105101-01 Well 01 0.99682	24-May-21	22:32:49
16	210524R1_16	2105101-02 Well 02 1.02588	24-May-21	23:17:05
17	210524R2_1	SOLVENT BLANK	25-May-21	00:10:18
18	210524R2_2	ST210524R2_1 1613 CS3 21C0105	25-May-21	00:54:36

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

Printed: Monday, May 24, 2021 11:53:43 Pacific Daylight Time
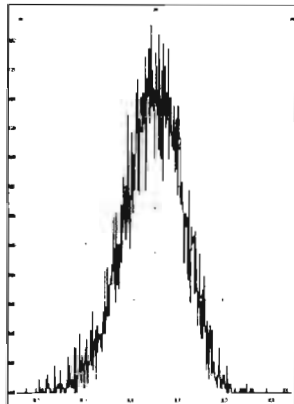
M 292.9824 R 10463   M 304.9824 R 11312   M 318.9792 R 10038   M 330.9792 R 10374
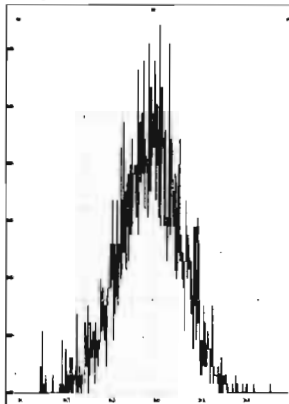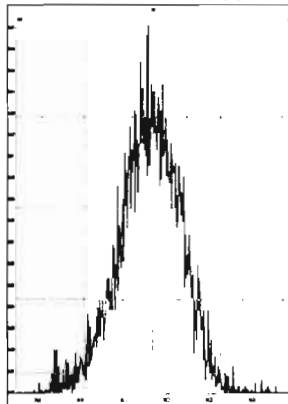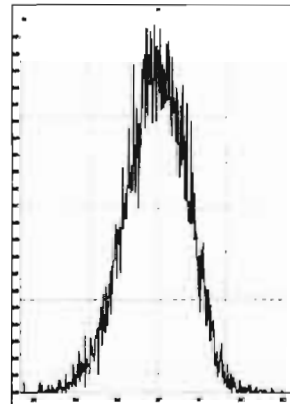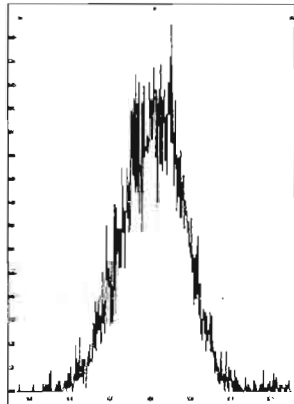
M 342.9792 R 10503   M 354.9792 R 11313   M 366.9792 R 14049   M 380.9760 R 10550
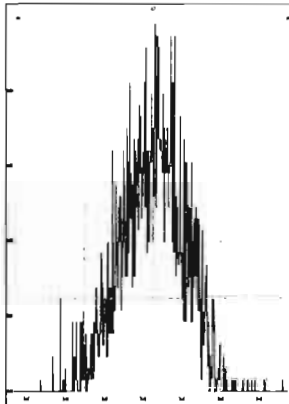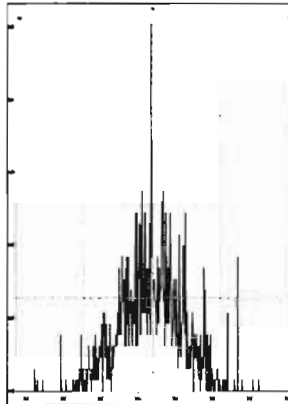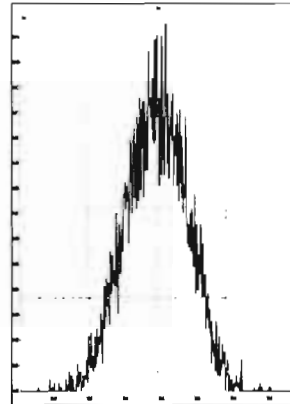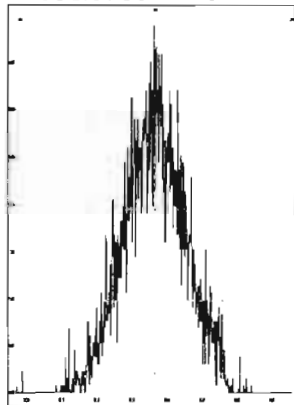
M 392.9760 R 10166   M 404.9760 R 10966   M 416.9760 R 19379
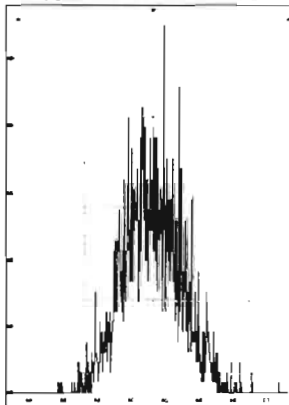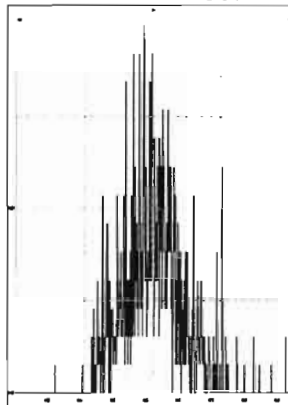
File: Experiment: OCDD_DIOXIN.exp   Reference: Pfk.ref   Function: 2 @ 200 (ppm)

Printed: Monday, May 24, 2021 11:54:53 Pacific Daylight Time
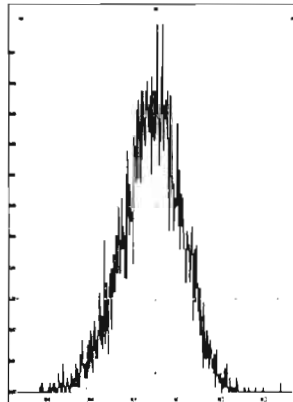
M 318.9792 R 10202   M 330.9792 R 10417   M 342.9792 R 10687   M 354.9792 R 12078
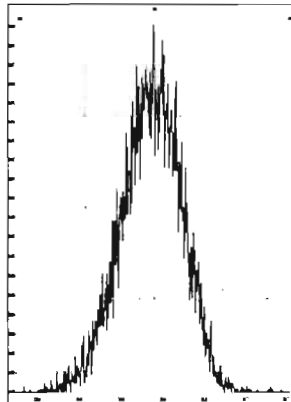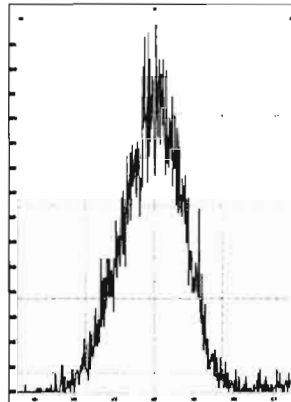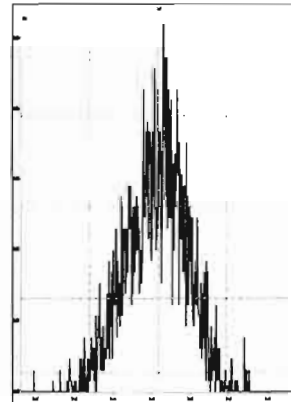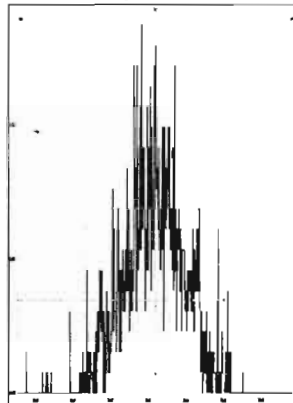
M 366.9792 R 14209   M 380.9760 R 10685   M 392.9760 R 11311   M 404.9760 R 12078
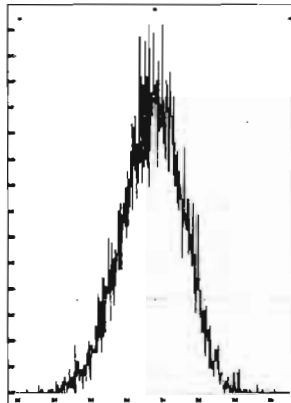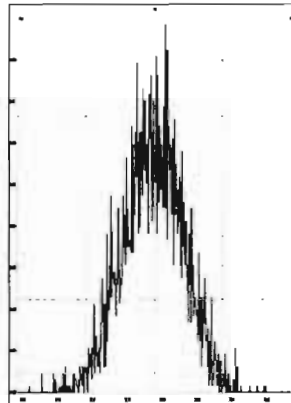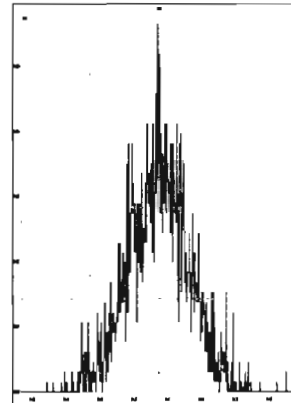
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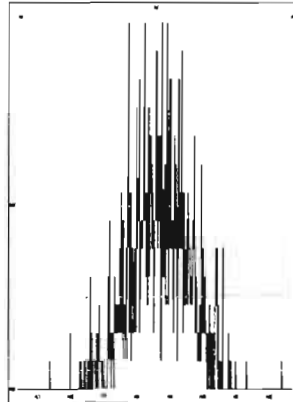
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Printed: Monday, May 24, 2021 11:55:51 Pacific Daylight Time
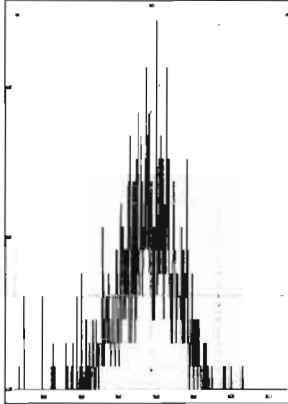
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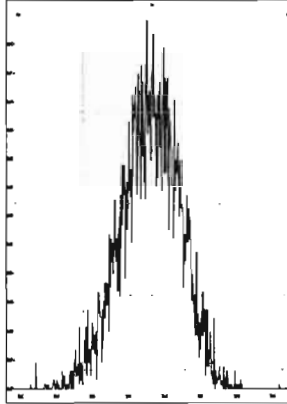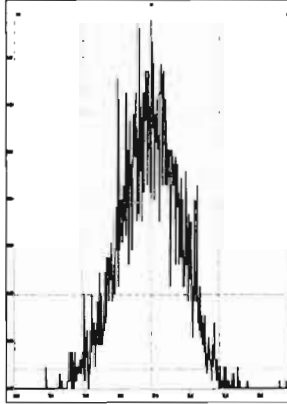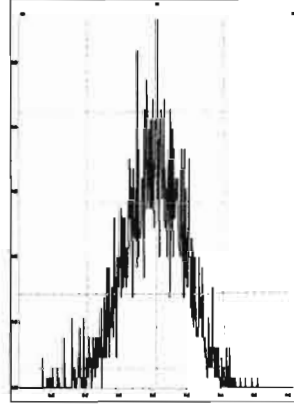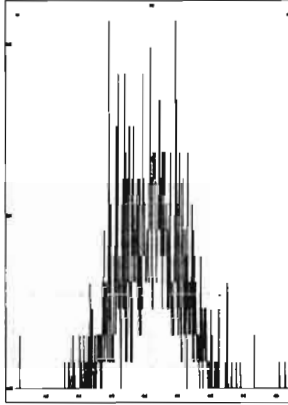
M 416.9760 R 14125   M 430.9728 R 10459   M 442.9728 R 12074   M 454.9728 R 13157
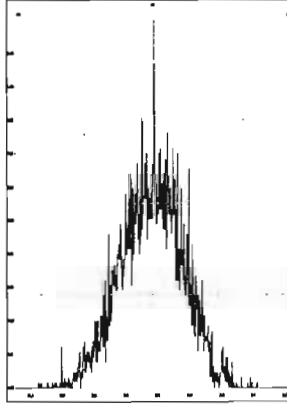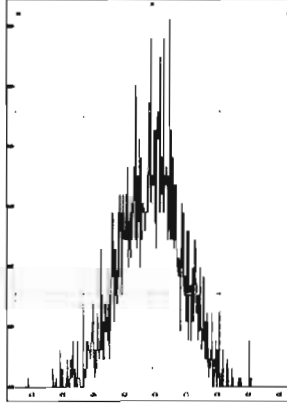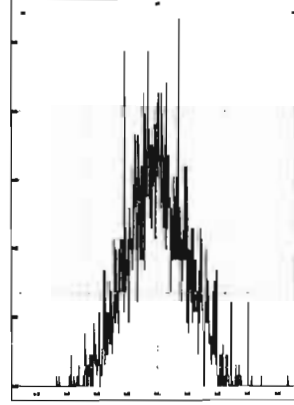
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Printed: Monday, May 24, 2021 11:56:39 Pacific Daylight Time
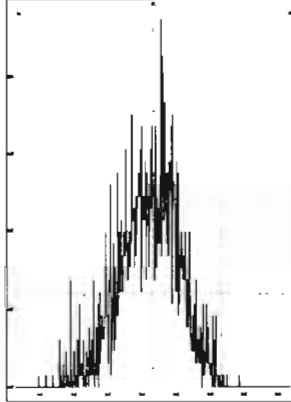
M 404.9760 R 12194   M 416.9760 R 13437   M 430.9728 R 10964   M 442.9728 R 10919
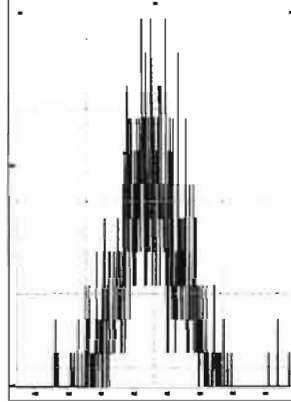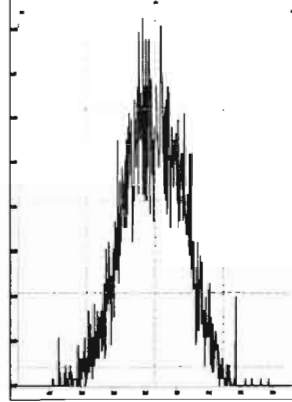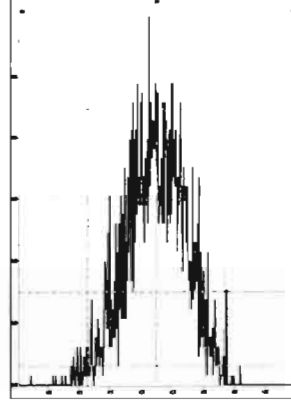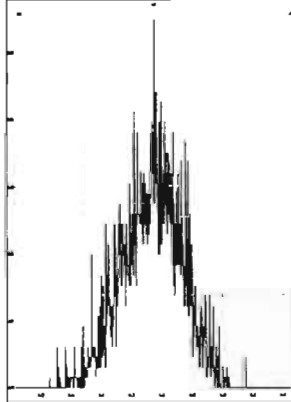
M 454.9728 R 10638   M 466.9728 R 14795   M 480.9696 R 11111
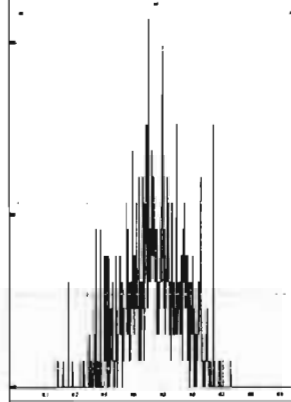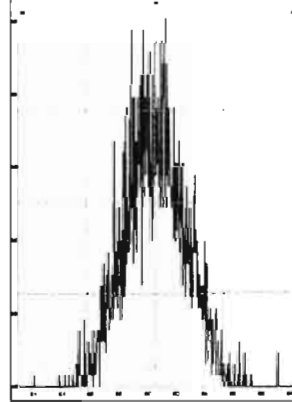
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Printed: Monday, May 24, 2021 11:57:26 Pacific Daylight Time
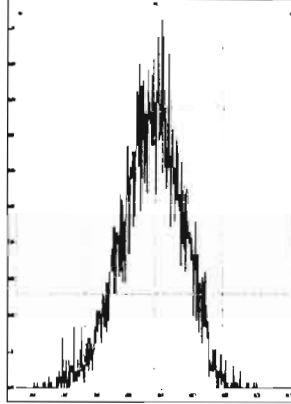
M 430.9728 R 11163   M 442.9728 R 11261   M 454.9728 R 10682   M 466.9728 R 13085
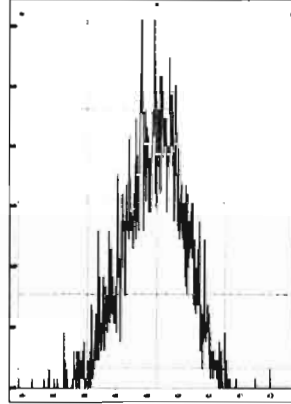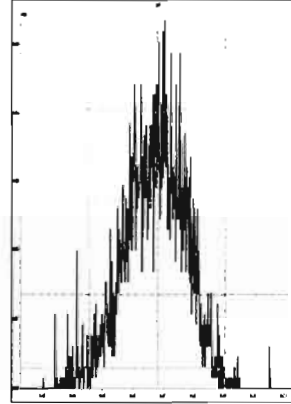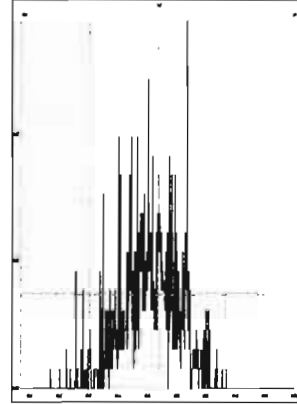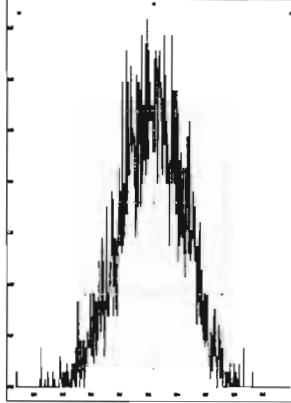
M 480.9696 R 10372   M 492.9696 R 12133   M 504.9696 R 11961   M 516.9697 R 18113
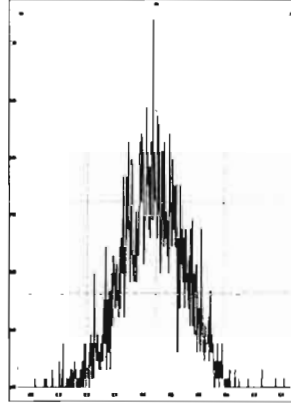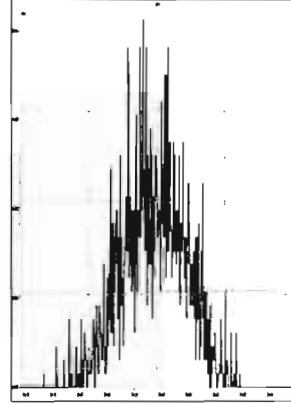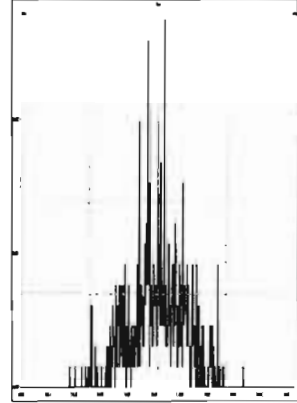
Dataset: U:\VG12.PRO\Results\210524R1\210524R1_CPSM.qld

Last Altered: Tuesday, May 25, 2021 09:00:18 Pacific Daylight Time
Printed: Tuesday, May 25, 2021 09:00:56 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 18 May 2021 09:49:43
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210524R1_1, Date: 24-May-2021, Time: 11:58:43, ID: ST210524R1_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

	# Name	RT
1	1 1,3,6,8-TCDD (First)	23.28
2	2 1,2,8,9-TCDD (Last)	27.54
3	3 1,2,4,7,9-PeCDD (First)	28.95
4	4 1,2,3,8,9-PeCDD (Last)	31.47
5	5 1,2,4,6,7,9-HxCDD (First)	32.74
6	6 1,2,3,7,8,9-HxCDD (Last)	34.87
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.37
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.26
9	9 1,3,6,8-TCDF (First)	21.15
10	10 1,2,8,9-TCDF (Last)	27.85
11	11 1,3,4,6,8-PeCDF (First)	27.39
12	12 1,2,3,8,9-PeCDF (Last)	31.83
13	13 1,2,3,4,6,8-HxCDF (First)	32.20
14	14 1,2,3,7,8,9-HxCDF (Last)	35.44
15	15 1,2,3,4,6,7,8-HpCDF (First)	37.05
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.91

Quantify Sample Report   **MassLynx 4.1 SCN815**

Vista Analytical Laboratory VG-11
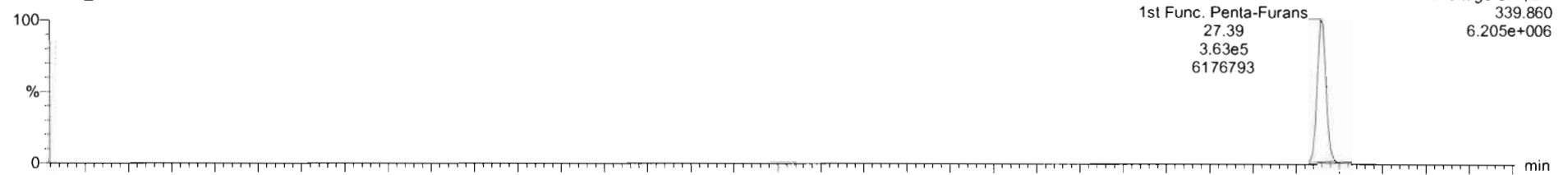
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Last Altered: Tuesday, May 25, 2021 09:00:18 Pacific Daylight Time
Printed: Tuesday, May 25, 2021 09:00:56 Pacific Daylight Time

HN 05/25/21

Method: U:\VG12.PRO\MethDB\CPSM.mdb 18 May 2021 09:49:43
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210524R1_1, Date: 24-May-2021, Time: 11:58:43, ID: ST210524R1_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

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

Dataset: U:\VG12.PRO\Results\210524R1\210524R1_CPSM.qld

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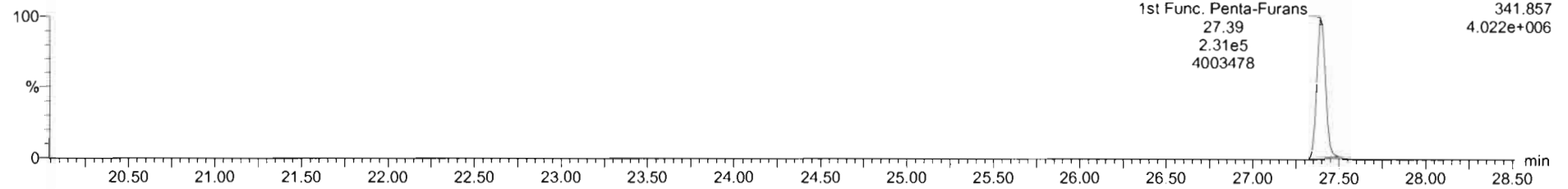Printed: Tuesday, May 25, 2021 09:00:56 Pacific Daylight Time   HN 05/25/21

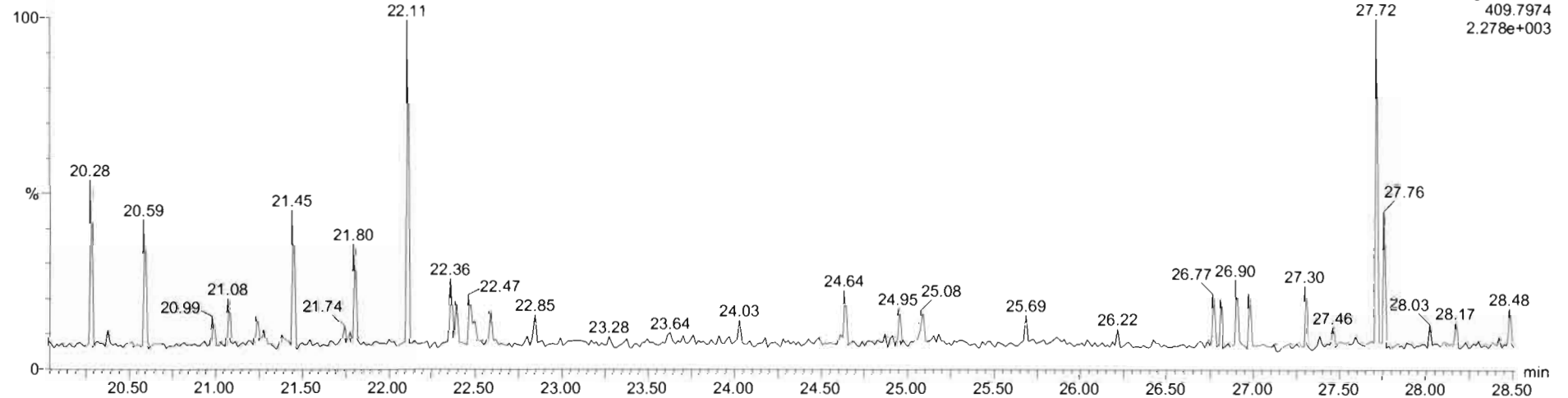**Name: 210524R1_1, Date: 24-May-2021, Time: 11:58:43, ID: ST210524R1_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105**
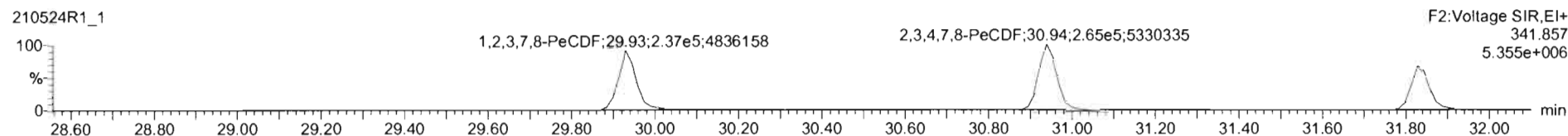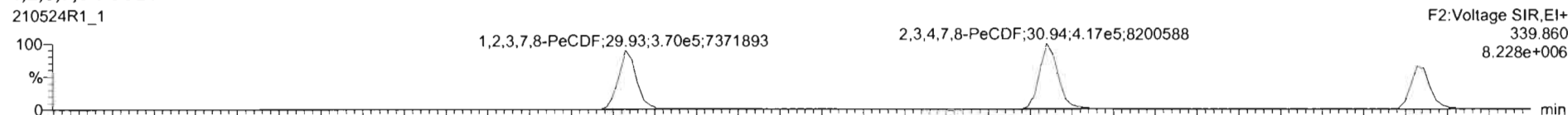
1,3,6,8-TCDF (First)

Dataset: U:\VG12.PRO\Results\210524R1\210524R1_1.qld

Last Altered: Monday, May 24, 2021 12:43:32 Pacific Daylight Time
Printed: Tuesday, May 25, 2021 09:01:14 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210524R1_1, Date: 24-May-2021, Time: 11:58:43, ID: ST210524R1_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

2,3,7,8-TCDD

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

Dataset: U:\VG12.PRO\Results\210524R1\210524R1_1.qld
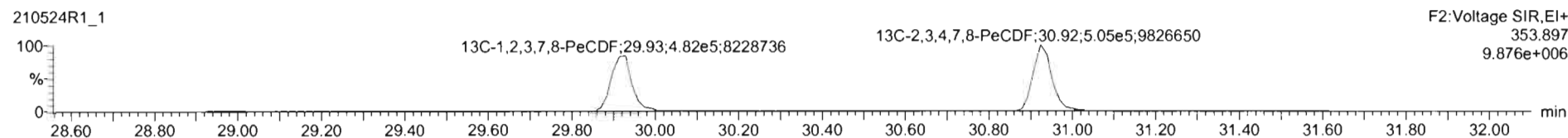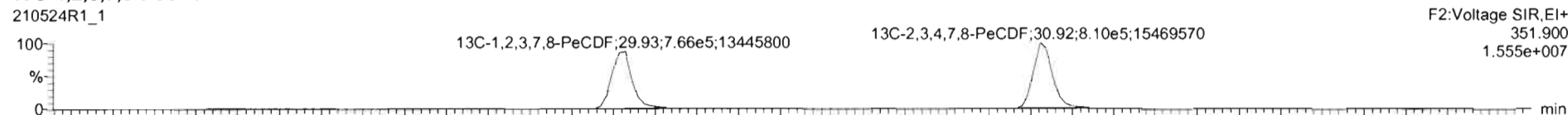
Last Altered: Monday, May 24, 2021 12:43:32 Pacific Daylight Time
Printed: Tuesday, May 25, 2021 09:01:14 Pacific Daylight Time

Name: 210524R1_1, Date: 24-May-2021, Time: 11:58:43, ID: ST210524R1_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105
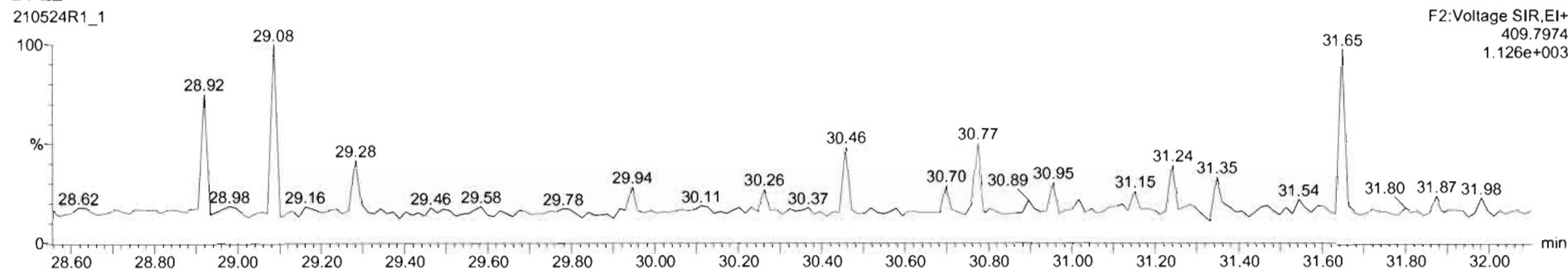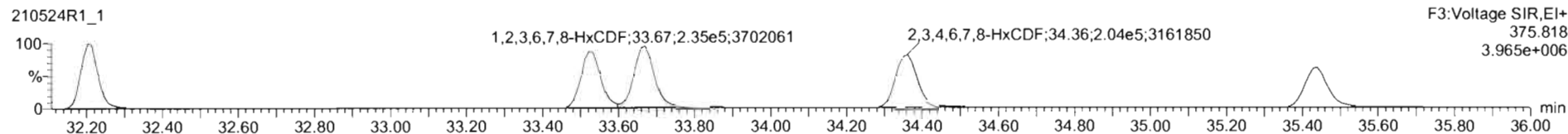
37Cl-2,3,7,8-TCDD

210524R1_1

F1:Voltage SIR,EI+
327.884
3.625e+006

37Cl-2,3,7,8-TCDD
26.70
2.26e5
3601010

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

210524R1_1

F1:Voltage SIR,EI+
331.9368
9.047e+006

13C-1,2,3,4-TCDD
25.97
4.78e5
7670098

13C-2,3,7,8-TCDD
26.68
5.43e5
9012591

210524R1_1

F1:Voltage SIR,EI+
333.934
1.158e+007

13C-1,2,3,4-TCDD
25.97
6.08e5
9678889

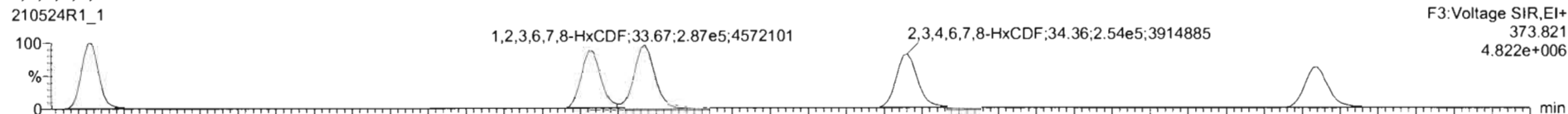13C-2,3,7,8-TCDD
26.68
6.93e5
11538449

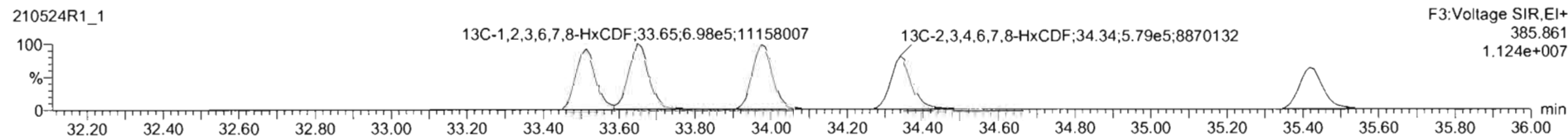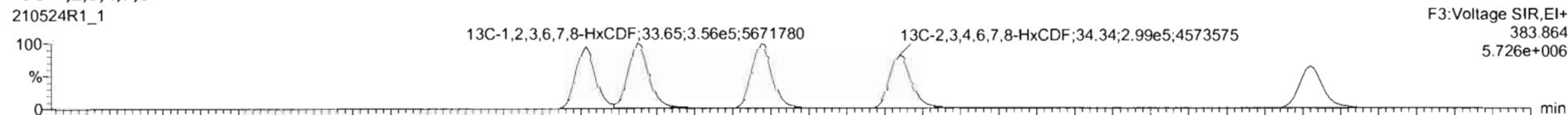Dataset: U:\VG12.PRO\Results\210524R1\210524R1_1.qld

Last Altered: Monday, May 24, 2021 12:43:32 Pacific Daylight Time
Printed: Tuesday, May 25, 2021 09:01:14 Pacific Daylight Time

Name: 210524R1_1, Date: 24-May-2021, Time: 11:58:43, ID: ST210524R1_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

1,2,3,7,8-PeCDD

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

Dataset: U:\VG12.PRO\Results\210524R1\210524R1_1.qld

Last Altered: Monday, May 24, 2021 12:43:32 Pacific Daylight Time
Printed: Tuesday, May 25, 2021 09:01:14 Pacific Daylight Time

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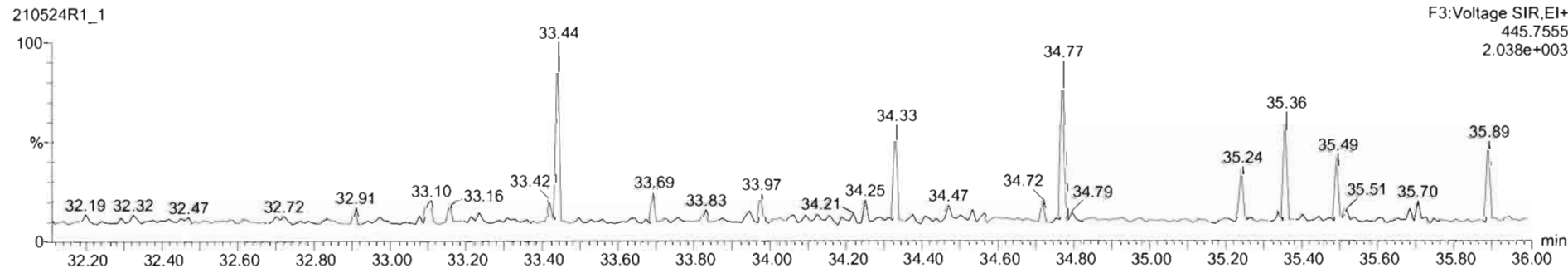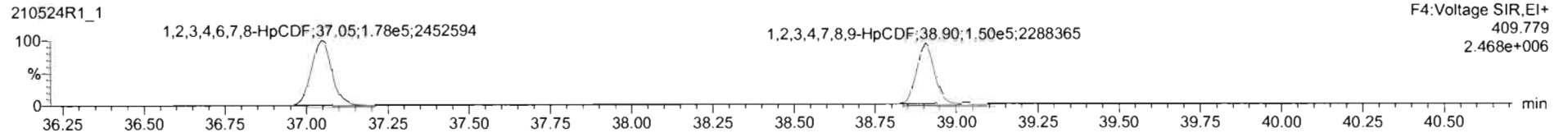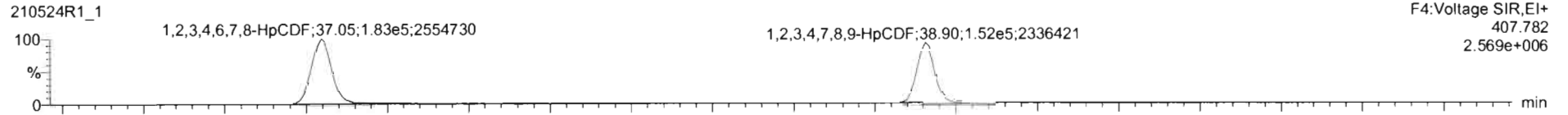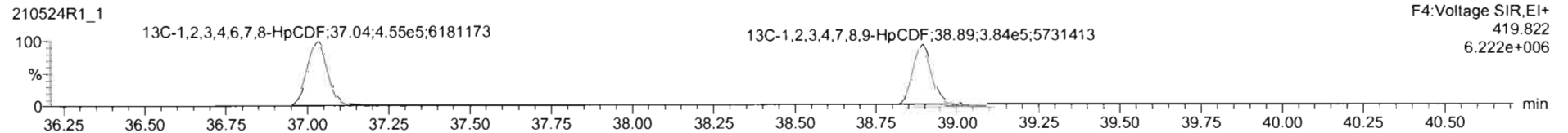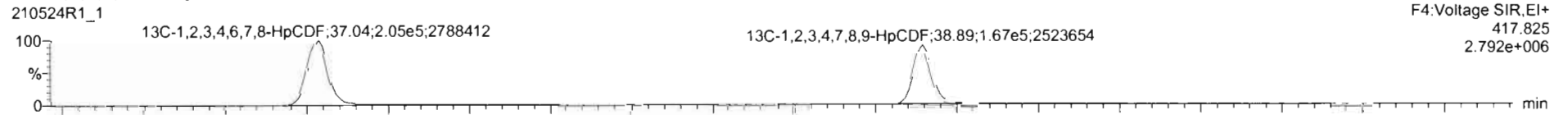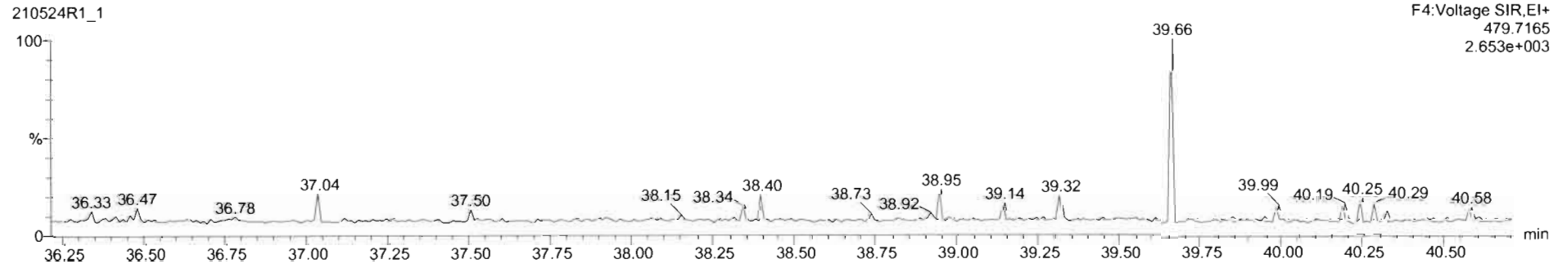
1,2,3,4,7,8-HxCDD

File Edit View Display Processing Window Help

210524R1_1 - ST210524R1_1 1613 CS3 21C0105 - 1613 CS3 21C0105

#	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	1.16e5	1.24e6	0.77	0.77	NO	0.9291	26.71	26.71	NO	1.001	1.001	10.2	102	NO
2	2	1,2,3,7,8-PeCDD	4.00e5	9.26e5	0.63	0.60	NO	0.8257	31.14	31.12	NO	1.001	1.000	52.3	105	NO
3	3	1,2,3,4,7,8-HxCDD	3.55e5	6.63e5	1.24	1.27	NO	0.9725	34.47	34.47	NO	1.001	1.001	55.0	110	NO
4	4	1,2,3,6,7,8-HxCDD	3.71e5	7.88e5	1.24	1.29	NO	0.8771	34.60	34.59	NO	1.001	1.000	53.6	107	NO
5	5	1,2,3,7,8,9-HxCDD	3.67e5	7.65e5	1.24	1.30	NO	0.8739	34.87	34.87	NO	1.000	1.000	54.9	110	NO
6	6	1,2,3,4,6,7,8-HpCDD	2.75e5	5.76e5	1.04	1.04	NO	0.8597	38.28	38.26	NO	1.000	1.001	53.2	106	NO
7	7	OCDD	4.34e5	9.54e5	0.89	0.88	NO	0.8524	41.21	41.32	NO	1.000	1.000	107	107	NO
8	8	2,3,7,8-TCDF	1.42e5	1.77e6	0.77	0.74	NO	0.7466	26.06	26.09	NO	1.000	1.001	10.6	106	NO
9	9	1,2,3,7,8-PeCDF	6.07e5	1.25e6	1.55	1.57	NO	0.8771	29.93	29.93	NO	1.000	1.000	55.5	111	NO
10	10	2,3,4,7,8-PeCDF	6.83e5	1.32e6	1.55	1.57	NO	0.9521	30.95	30.94	NO	1.001	1.000	54.0	108	NO
11	11	1,2,3,4,7,8-HxCDF	4.61e5	9.40e5	1.24	1.22	NO	0.9202	33.52	33.52	NO	1.000	1.000	53.3	107	NO
12	12	1,2,3,6,7,8-HxCDF	5.22e5	1.05e6	1.24	1.22	NO	0.9363	33.67	33.67	NO	1.001	1.001	52.9	106	NO
13	13	2,3,4,6,7,8-HxCDF	4.58e5	8.79e5	1.24	1.25	NO	0.9725	34.36	34.36	NO	1.001	1.001	53.6	107	NO
14	14	1,2,3,7,8,9-HxCDF	3.60e5	7.57e5	1.24	1.25	NO	0.9396	35.43	35.44	NO	1.000	1.001	53.4	107	NO
15	15	1,2,3,4,6,7,8-HpCDF	3.61e5	6.60e5	1.04	1.03	NO	1.0461	37.05	37.05	NO	1.000	1.000	52.2	104	NO
16	16	1,2,3,4,7,8,9-HpCDF	3.02e5	5.59e5	1.04	1.01	NO	1.0453	38.91	38.90	NO	1.000	1.000	52.5	105	NO
17	17	OCDF	5.09e5	1.24e6	0.89	0.88	NO	0.7712	41.65	41.65	NO	1.000	1.006	106	106	NO

210524R1_1
1613 CS3 21C0105 ST210524R1_1 1613 CS3 21C0105
1,2,3,7,8,9-HxCDD;34.87;207612.14;2878778

34.68

210524R1_1
1613 CS3 21C0105 ST210524R1_1 1613 CS3 21C0105
1,2,3,7,8,9-HxCDD;34.87;159647.44;2290026

34.68

210524R1_1
1613 CS3 21C0105 ST210524R1_1 1613 CS3 21C0105
13C-1,2,3,7,8,9-HxCDD;34.86;427177.88;6139761

210524R1_1
1613 CS3 21C0105 ST210524R1_1 1613 CS3 21C0105
13C-1,2,3,7,8,9-HxCDD;34.86;338030.56;4842075

Ready

Dataset: U:\VG12.PRO\Results\210524R1\210524R1_1.qld

Last Altered: Monday, May 24, 2021 12:43:32 Pacific Daylight Time
Printed: Tuesday, May 25, 2021 09:01:14 Pacific Daylight Time

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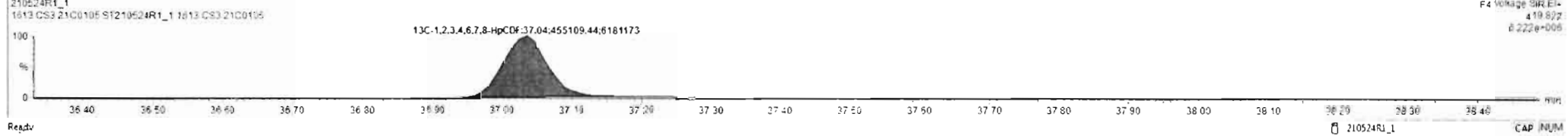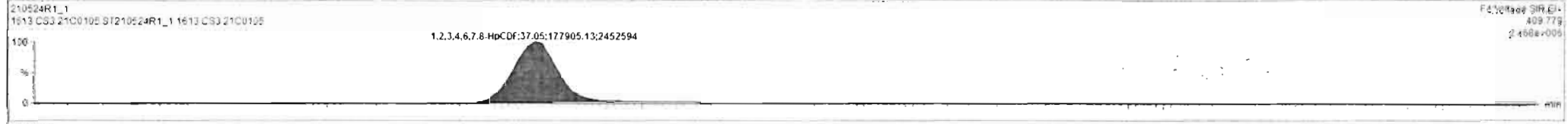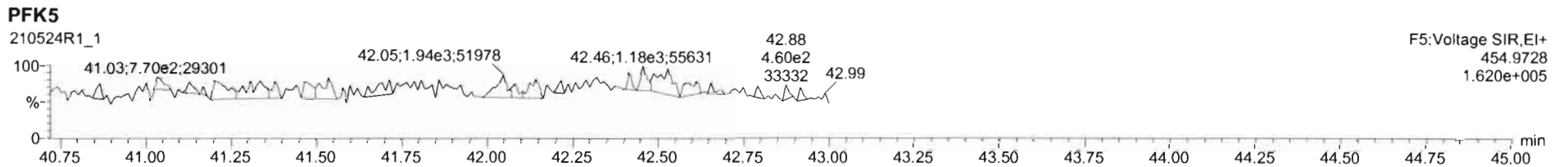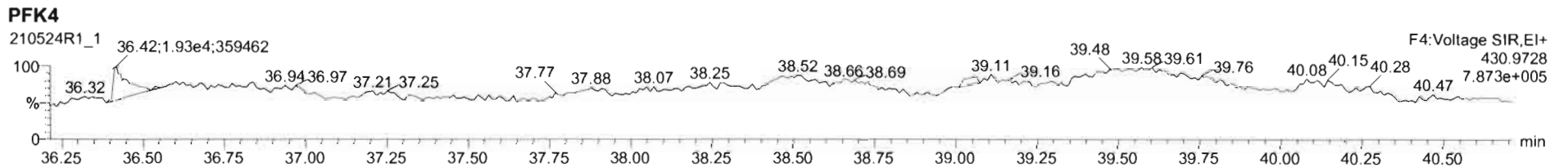
1,2,3,4,6,7,8-HpCDD

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

Quantify Sample Report   MassLynx 4.1 SCN815
Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\210524R1\210524R1_1.qld

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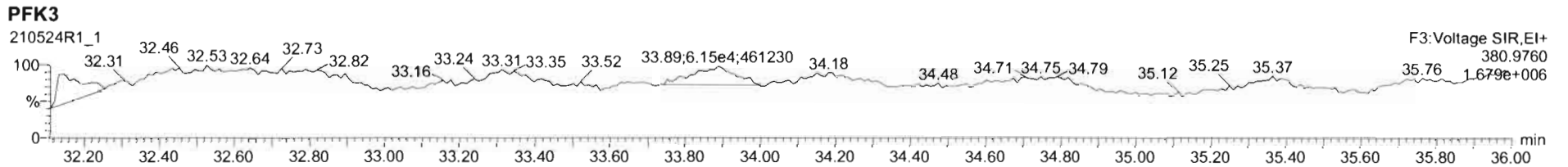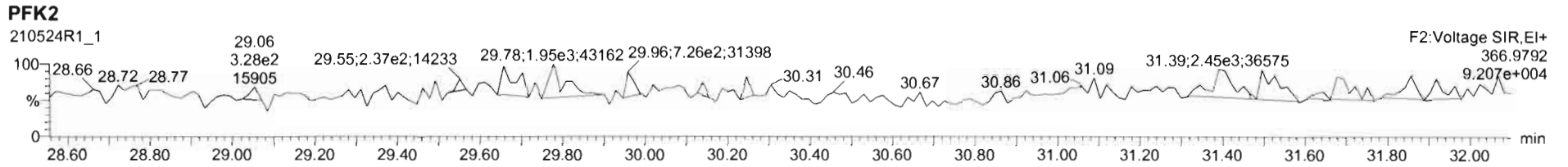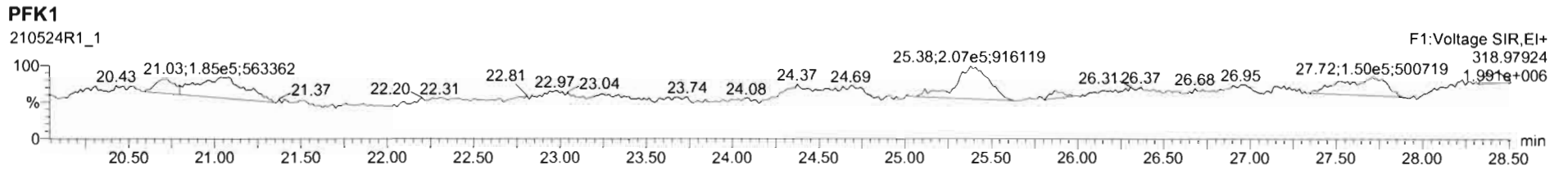Printed: Tuesday, May 25, 2021 09:01:14 Pacific Daylight Time

Name: 210524R1_1, Date: 24-May-2021, Time: 11:58:43, ID: ST210524R1_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

OCDD

13C-OCDD

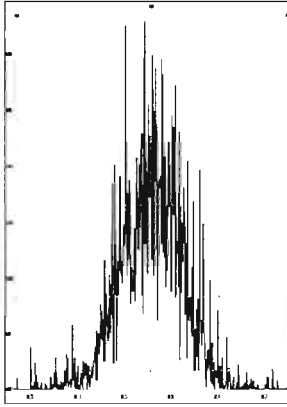Dataset: U:\VG12.PRO\Results\210524R1\210524R1_1.qld

Last Altered: Monday, May 24, 2021 12:43:32 Pacific Daylight Time
Printed: Tuesday, May 25, 2021 09:01:14 Pacific Daylight Time

Name: 210524R1_1, Date: 24-May-2021, Time: 11:58:43, ID: ST210524R1_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105
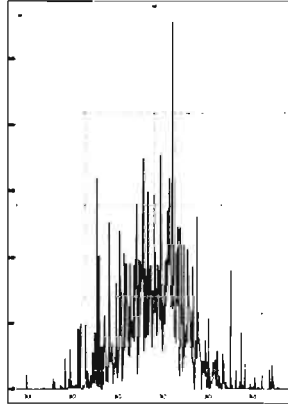
2,3,7,8-TCDF

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

DPE1

File   Edit   View   Display   Processing   Window   Help

210524R1_1 - ST210524R1_1 1613 CS3 21C0105 - 1613 CS3 21C0105

#	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	1.18e5	1.24e6	0.77	0.77	NO	0.9261	26.71	26.71	NO	1.001	1.001	10.2	102	NO
2	2	1,2,3,7,8-PeCDD	4.00e5	9.26e5	0.83	0.60	NO	0.6257	31.14	31.12	NO	1.001	1.001	52.3	105	NO
3	3	1,2,3,4,7,8-HxCDD	3.55e5	6.63e5	1.24	1.27	NO	0.9725	34.47	34.47	NO	1.001	1.001	55.0	110	NO
4	4	1,2,3,6,7,8-HxCDD	2.71e5	7.88e5	1.24	1.29	NO	0.8771	34.60	34.59	NO	1.001	1.000	53.6	107	NO
5	5	1,2,3,7,8,9-HxCDD	3.67e5	7.85e5	1.24	1.30	NO	0.8739	34.87	34.87	NO	1.000	1.000	54.9	110	NO
6	6	1,2,3,4,6,7,8-HpCDD	2.75e5	5.76e5	1.04	1.04	NO	0.8987	38.25	38.26	NO	1.000	1.001	53.2	106	NO
7	7	OCDD	4.34e5	9.54e5	0.89	0.88	NO	0.6524	41.31	41.32	NO	1.000	1.000	107	107	NO
8	8	2,3,7,8-TCDF	1.44e5	1.77e6	0.77	0.78	NO	0.7466	26.08	26.09	NO	1.000	1.001	10.9	109	NO
9	9	1,2,3,7,8-PeCDF	6.07e5	1.25e6	1.55	1.57	NO	0.8771	29.93	29.93	NO	1.000	1.000	55.5	111	NO
10	10	2,3,4,7,8-PeCDF	6.83e5	1.32e6	1.55	1.57	NO	0.9621	30.95	30.94	NO	1.001	1.000	54.0	108	NO
11	11	1,2,3,4,7,8-HxCDF	4.61e5	9.40e5	1.24	1.22	NO	0.9202	33.52	33.52	NO	1.000	1.000	53.3	107	NO
12	12	1,2,3,6,7,8-HxCDF	5.22e5	1.05e6	1.24	1.22	NO	0.9363	33.67	33.67	NO	1.001	1.001	52.9	106	NO
13	13	2,3,4,6,7,8-HxCDF	4.58e5	8.79e5	1.24	1.25	NO	0.9725	34.36	34.36	NO	1.001	1.001	53.6	107	NO
14	14	1,2,3,7,8,9-HxCDF	3.60e5	7.57e5	1.24	1.25	NO	0.9396	35.43	35.44	NO	1.000	1.001	53.4	107	NO
15	15	1,2,3,4,6,7,8-HpCDF	3.61e5	6.60e5	1.04	1.03	NO	1.0481	37.05	37.05	NO	1.000	1.000	52.2	104	NO
16	16	1,2,3,4,7,8,9-HpCDF	3.02e5	5.50e5	1.04	1.01	NO	1.0452	38.91	38.90	NO	1.000	1.000	52.5	105	NO
17	17	OCDF	6.09e5	1.24e6	0.89	0.88	NO	0.7712	41.65	41.65	NO	1.000	1.000	106	106	NO

210524R1_1
1613 CS3 21C0105 ST210524R1_1 1613 CS3 21C0105
F1 voltage SIR,EI+
303.9016
9.878e+005

100
%
0

25.96

2,3,7,8-TCDF
26.09
62006.33
978580

210524R1_1
1613 CS3 21C0105 ST210524R1_1 1613 CS3 21C0105
F1 voltage SIR,EI+
305.899
1.291e+005

100
%
0

25.96

2,3,7,8-TCDF
26.09
81540.26
1281338

210524R1_1
1613 CS3 21C0105 ST210524R1_1 1613 CS3 21C0105
F1 voltage SIR,EI+
315.9419
1.203e+007

100
%
0

24.64

13C-2,3,7,8-TCDF
26.06
779664.50
11986619

210524R1_1
1613 CS3 21C0105 ST210524R1_1 1613 CS3 21C0105
F1 voltage SIR,EI+
317.939
1.562e+007

100
%
0

24.64

13C-2,3,7,8-TCDF
26.06
989267.94
15546108

24.10 24.20 24.30 24.40 24.50 24.60 24.70 24.80 24.90 25.00 25.10 25.20 25.30 25.40 25.50 25.60 25.70 25.80 25.90 26.00 26.10 26.20 26.30 26.40 26.50 26.60 26.70 26.80 26.90 27.00 27.10 27.20   min

Ready   CAP NUM   210524R1_1   CAP NUM

210524R1_1 - ST210524R1_1 1613 CS3 21C0105 - 1613 CS3 21C0105

	#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
37	37	13C-1,2,3,4-TCDF	1.66e6	1.66e6	0.77	0.79	NO	1.0000	24.76	24.64	NO	1.000	1.000	100	100	NO
38	38	13C-1,2,3,4,6,9-HxCDF	1.01e6	1.01e6	0.51	0.51	NO	1.0000	34.04	33.97	NO	1.000	1.000	100	100	YES
39	39	Total Tetra-Dioxins		1.24e6				0.9291	24.62		NO	0.000		46.6		NO
40	40	Total Penta-Dioxins		9.26e5				0.8257	29.96		NO	0.000		147		NO
41	41	Total Hexa-Dioxins		0.00e0				0.8771	33.63		NO	0.000		222		NO
42	42	Total Hepta-Dioxins		5.76e5				0.8967	37.64		NO	0.000		103		NO
43	43	Total Tetra-Furans		1.77e6				0.7466	23.61		NO	0.000		41.5		NO
44	44	1st Func Penta-Furans		0.00e0				0.8771	27.62		NO	0.000		52.9		NO
45	45	Total Penta-Furans		0.00e0				0.8771	28.27		NO	0.000		152		NO
46	46	Total Hexa-Furans		0.00e0				0.9729	33.56		NO	0.000		265		NO
47	47	Total Hepta-Furans		0.00e0				1.0481	37.83		NO	0.000		105		NO
48	48	PFK1														
49	49	PFK2														
50	50	PFK3														
51	51	PFK4														
52	52	PFK5														
53	53	DPE1														

Dataset: U:\VG12.PRO\Results\210524R1\210524R1_1.qld

Last Altered: Monday, May 24, 2021 12:43:32 Pacific Daylight Time
Printed: Tuesday, May 25, 2021 09:01:14 Pacific Daylight Time

Name: 210524R1_1, Date: 24-May-2021, Time: 11:58:43, ID: ST210524R1_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

1st Func. Penta-Furans

DPE6

Dataset: U:\VG12.PRO\Results\210524R1\210524R1_1.qld

Last Altered: Monday, May 24, 2021 12:43:32 Pacific Daylight Time
Printed: Tuesday, May 25, 2021 09:01:14 Pacific Daylight Time

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Name: 210524R1_1, Date: 24-May-2021, Time: 11:58:43, ID: ST210524R1_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

1,2,3,7,8-PeCDF

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

DPE2

Dataset: U:\VG12.PRO\Results\210524R1\210524R1_1.qld

Last Altered: Monday, May 24, 2021 12:43:32 Pacific Daylight Time
Printed: Tuesday, May 25, 2021 09:01:14 Pacific Daylight Time

Name: 210524R1_1, Date: 24-May-2021, Time: 11:58:43, ID: ST210524R1_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

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

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

DPE3

Dataset: U:\VG12.PRO\Results\210524R1\210524R1_1.qld

Last Altered: Monday, May 24, 2021 12:43:32 Pacific Daylight Time
Printed: Tuesday, May 25, 2021 09:01:14 Pacific Daylight Time

Name: 210524R1_1, Date: 24-May-2021, Time: 11:58:43, ID: ST210524R1_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

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

210524R1_1 — F4:Voltage SIR,EI+ 407.782 2.569e+006
1,2,3,4,6,7,8-HpCDF;37.05;1.83e5;2554730
1,2,3,4,7,8,9-HpCDF;38.90;1.52e5;2336421

210524R1_1 — F4:Voltage SIR,EI+ 409.779 2.468e+006
1,2,3,4,6,7,8-HpCDF;37.05;1.78e5;2452594
1,2,3,4,7,8,9-HpCDF;38.90;1.50e5;2288365

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

210524R1_1 — F4:Voltage SIR,EI+ 417.825 2.792e+006
13C-1,2,3,4,6,7,8-HpCDF;37.04;2.05e5;2788412
13C-1,2,3,4,7,8,9-HpCDF;38.89;1.67e5;2523654

210524R1_1 — F4:Voltage SIR,EI+ 419.822 6.222e+006
13C-1,2,3,4,6,7,8-HpCDF;37.04;4.55e5;6181173
13C-1,2,3,4,7,8,9-HpCDF;38.89;3.84e5;5731413

DPE4

210524R1_1 — F4:Voltage SIR,EI+ 479.7165 2.653e+003

File Edit View Display Processing Window Help

210524R1_1 - ST210524R1_1 1613 CS3 21C0105 - 1613 CS3 21C0105

#	Name	Resp	IS Resp	Pred RA	RA	m/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1	2,3,7,8-TCDD	1.16e5	1.24e6	0.71	0.77	NO	0.3291	28.71	28.71	NO	1.001	1.001	10.2	102	NO
2	2	1,2,3,7,8-PeCDD	4.00e5	9.26e5	0.63	0.60	NO	0.8257	31.14	31.12	NO	1.001	1.000	52.3	105	NO
3	3	1,2,3,4,7,8-HxCDD	3.55e5	6.63e5	1.24	1.27	NO	0.9725	34.47	34.47	NO	1.001	1.000	55.0	110	NO
4	4	1,2,3,6,7,8-HxCDD	3.71e5	7.84e5	1.24	1.29	NO	0.8771	34.60	34.59	NO	1.001	1.000	53.6	107	NO
5	5	1,2,3,7,8,9-HxCDD	3.67e5	7.66e5	1.24	1.30	NO	0.8739	34.87	34.87	NO	1.000	1.000	54.9	110	NO
6	6	1,2,3,4,6,7,8-HpCDD	2.75e5	5.74e5	1.04	1.04	NO	0.8967	38.25	38.26	NO	1.020	1.051	53.2	106	NO
7	7	OCDD	4.34e5	9.54e5	5.89	5.56	NO	0.6524	41.31	41.32	NO	1.000	1.000	107	107	NO
8	8	2,3,7,8-TCDF	1.44e5	1.77e5	0.77	0.76	NO	0.7468	28.06	28.09	NO	1.000	1.001	10.9	109	NO
9	9	1,2,3,7,8-PeCDF	6.07e5	1.25e6	1.55	1.57	NO	0.8771	29.93	29.93	NO	1.000	1.000	55.6	111	NO
10	10	2,3,4,7,8-PeCDF	6.83e5	1.32e6	1.55	1.57	NO	0.9621	30.95	30.94	NO	1.001	1.000	54.0	108	NO
11	11	1,2,3,4,7,8-HxCDF	4.61e5	9.40e5	1.24	1.22	NO	0.9282	33.52	33.52	NO	1.000	1.000	63.3	107	NO
12	12	1,2,3,6,7,8-HxCDF	5.22e5	1.05e6	1.24	1.22	NO	0.9363	33.67	33.67	NO	1.001	1.001	62.9	106	NO
13	13	2,3,4,6,7,8-HxCDF	4.58e5	8.79e5	1.24	1.25	NO	0.9725	34.36	34.36	NO	1.001	1.001	53.6	107	NO
14	14	1,2,3,7,8,9-HxCDF	3.80e5	7.57e5	1.24	1.25	NO	0.9396	35.43	35.44	NO	1.000	1.001	53.4	107	NO
15	15	1,2,3,4,6,7,8-HpCDF	3.61e5	6.59e5	1.04	1.03	NO	1.0481	37.05	37.05	NO	1.000	1.000	52.3	105	NO
16	16	1,2,3,4,7,8,9-HpCDF	3.02e5	5.50e5	1.04	1.01	NO	1.0453	38.91	38.90	NO	1.000	1.000	52.5	105	NO
17	17	OCDF	5.09e5	1.24e6	0.69	0.68	NO	0.7712	41.65	41.65	NO	1.000	1.000	106	106	NO

210524R1_1
1613 CS3 21C0105 ST210524R1_1 1613 CS3 21C0105
F4:Voltage SIR,EI+
407.782
2.569e+006
1,2,3,4,6,7,8-HpCDF;37.05;183334.55;2554730

210524R1_1
1613 CS3 21C0105 ST210524R1_1 1613 CS3 21C0105
F4:Voltage SIR,EI+
409.779
2.468e+006
1,2,3,4,6,7,8-HpCDF;37.05;177905.13;2452594

210524R1_1
1613 CS3 21C0105 ST210524R1_1 1613 CS3 21C0105
F4:Voltage SIR,EI+
417.825
2.792e+006
13C-1,2,3,4,6,7,8-HpCDF;37.04;203941.69;2788768

210524R1_1
1613 CS3 21C0105 ST210524R1_1 1613 CS3 21C0105
F4:Voltage SIR,EI+
419.822
6.222e+006
13C-1,2,3,4,6,7,8-HpCDF;37.04;455109.44;6181173

Ready

Dataset: U:\VG12.PRO\Results\210524R1\210524R1_1.qld

Last Altered: Monday, May 24, 2021 12:43:32 Pacific Daylight Time
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Name: 210524R1_1, Date: 24-May-2021, Time: 11:58:43, ID: ST210524R1_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

OCDF

13C-OCDF

DPE5
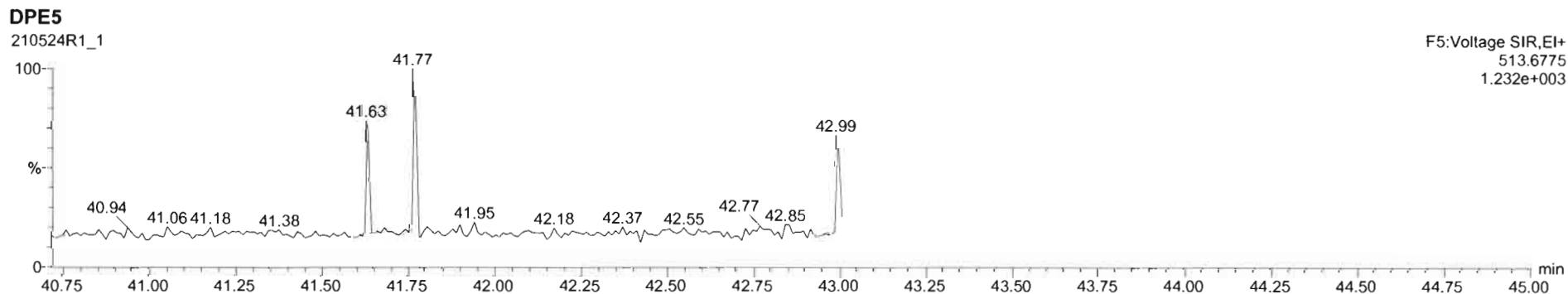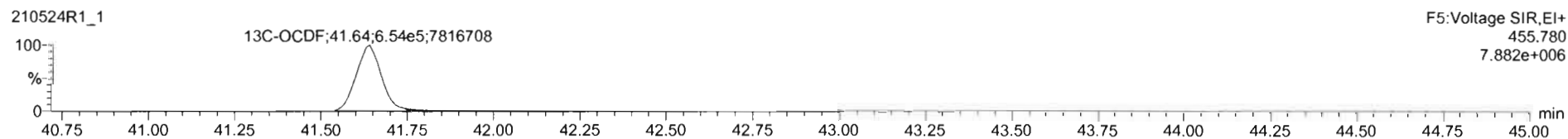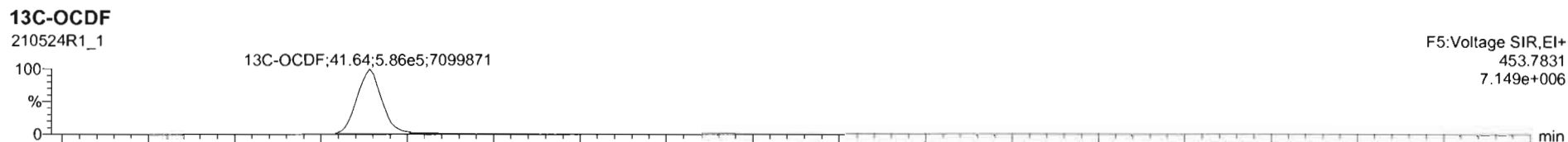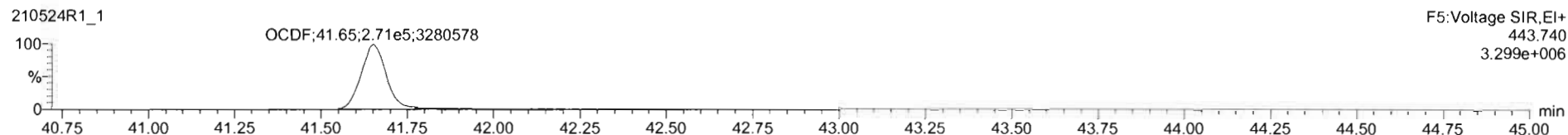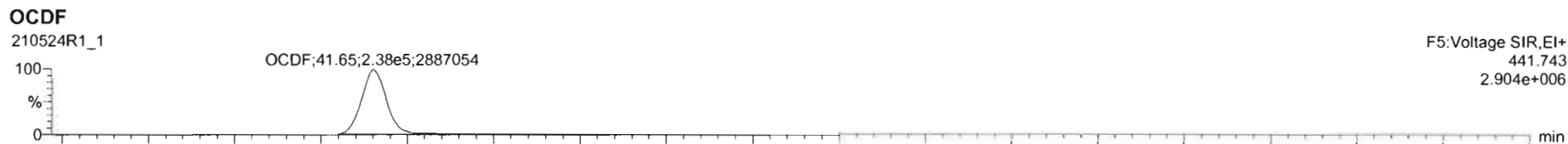
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Last Altered: Monday, May 24, 2021 12:43:32 Pacific Daylight Time
Printed: Tuesday, May 25, 2021 09:01:14 Pacific Daylight Time

Name: 210524R1_1, Date: 24-May-2021, Time: 11:58:43, ID: ST210524R1_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

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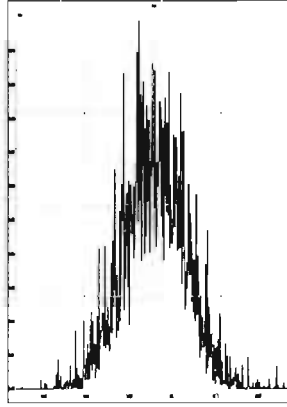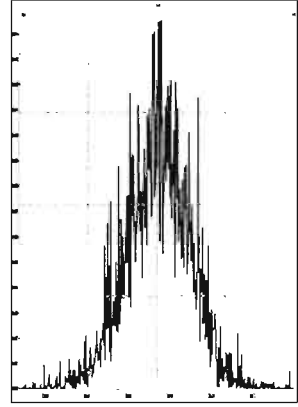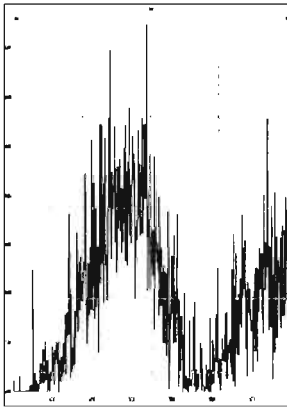
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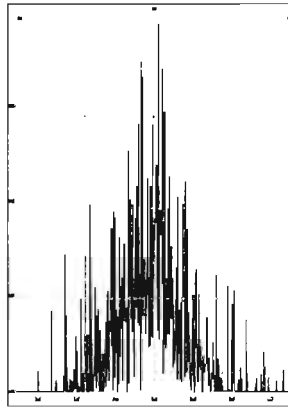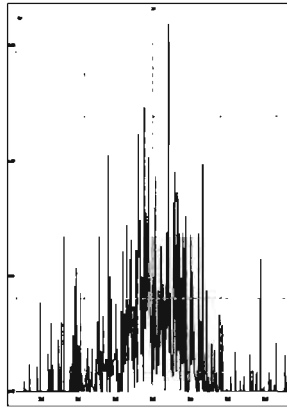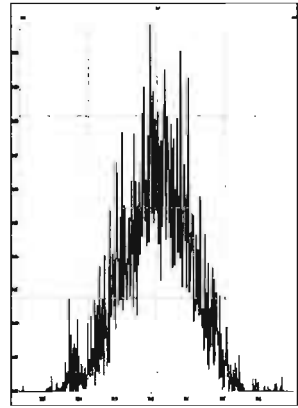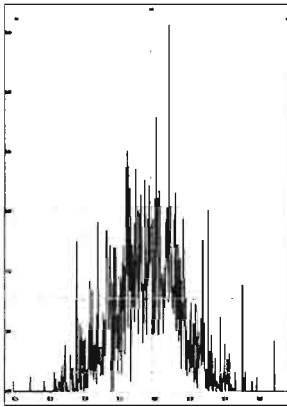
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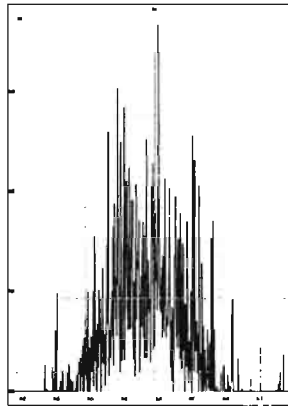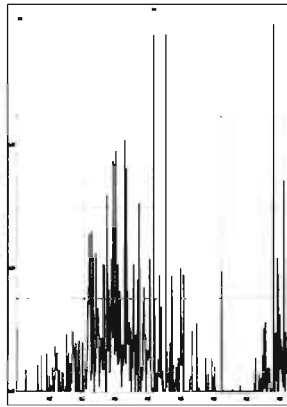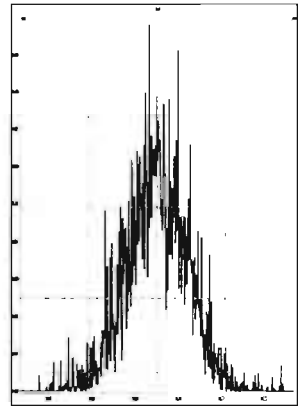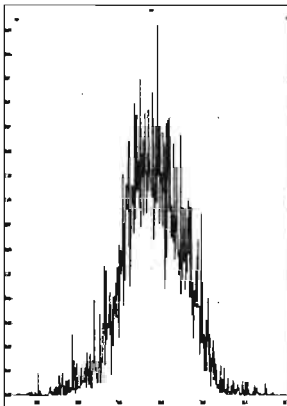
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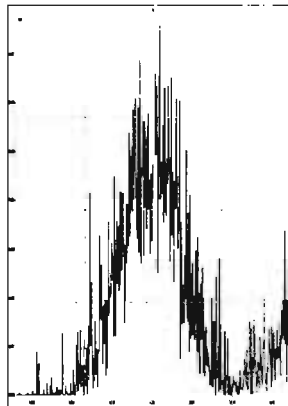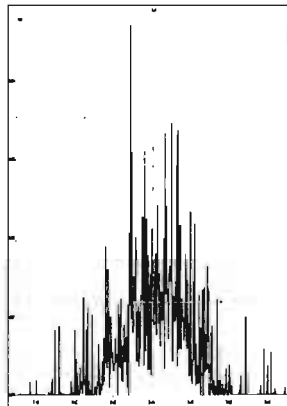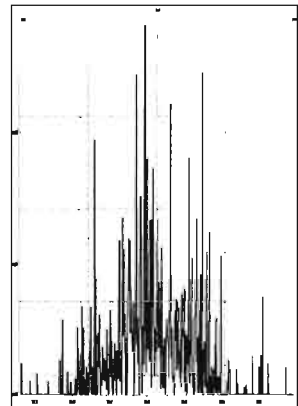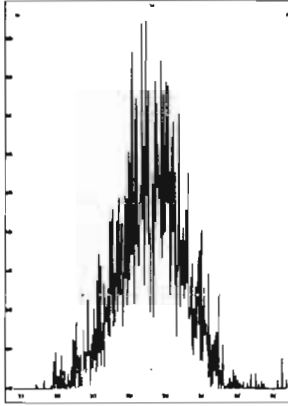
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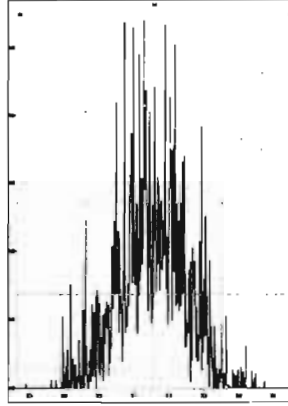
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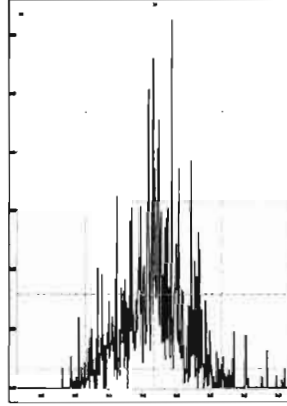
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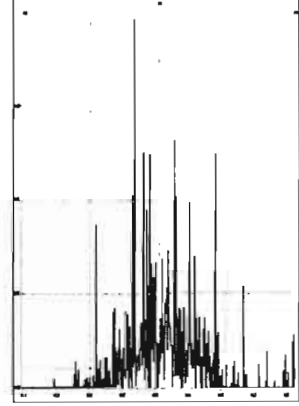
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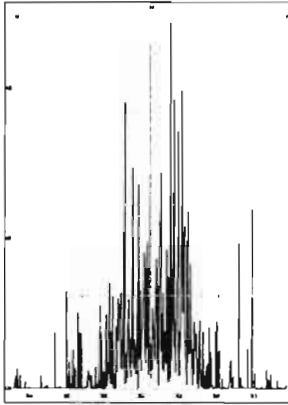
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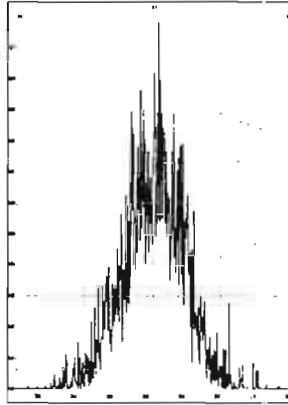
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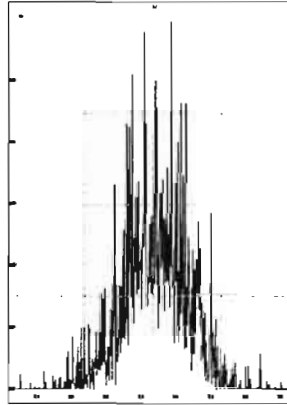
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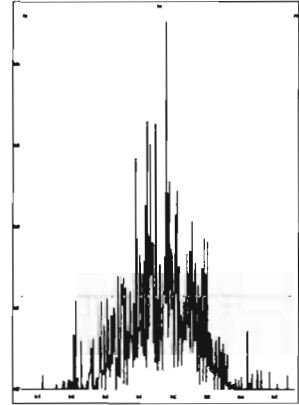
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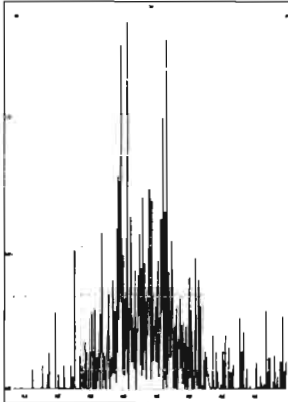
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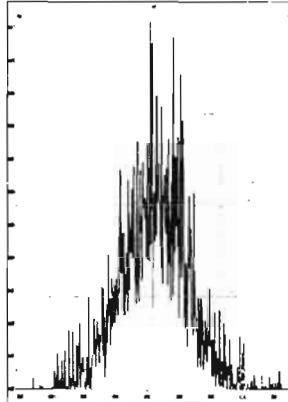
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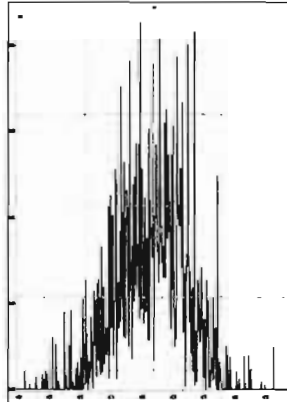
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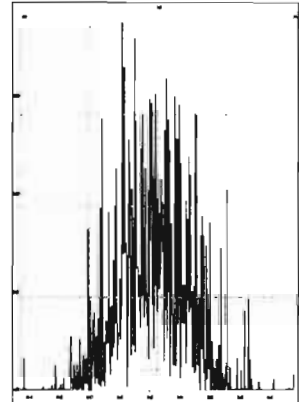
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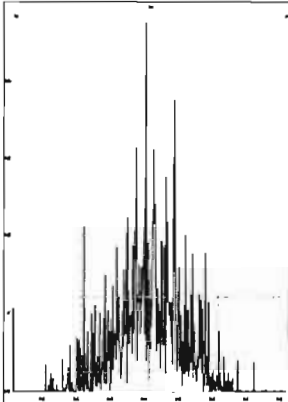
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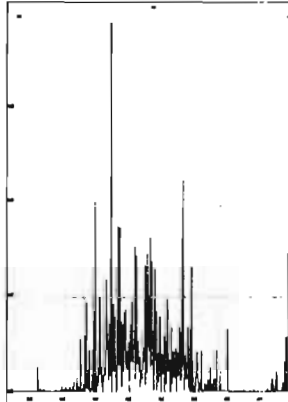
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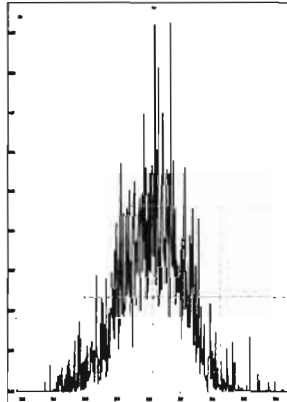
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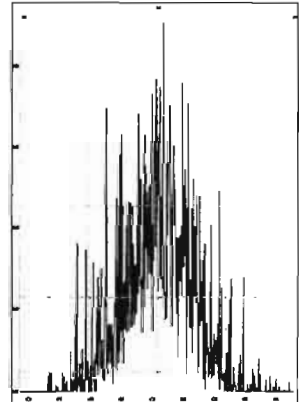
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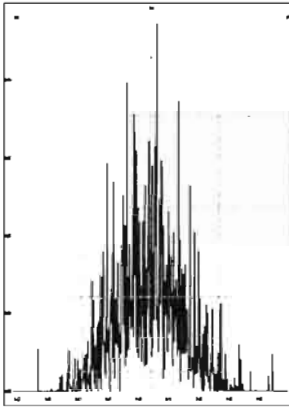
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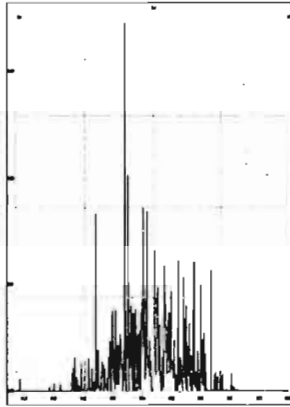
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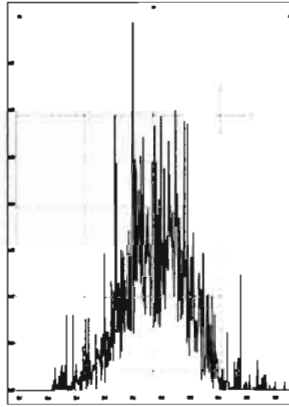
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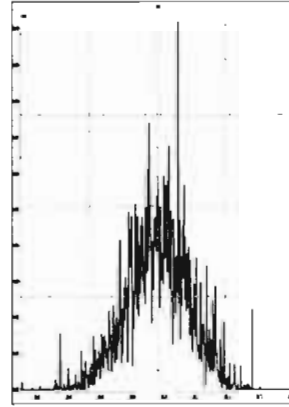
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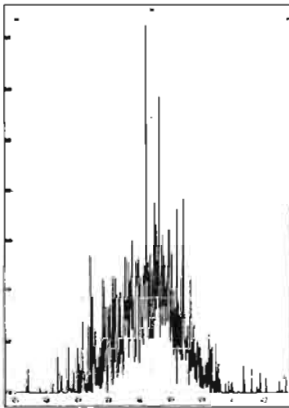
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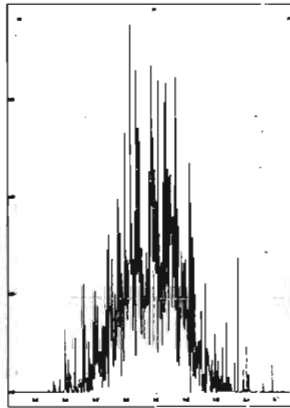
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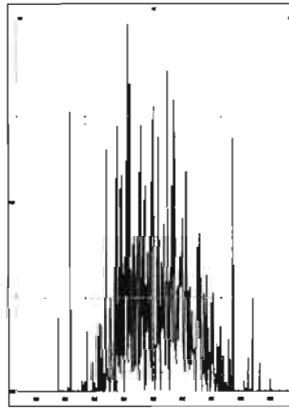
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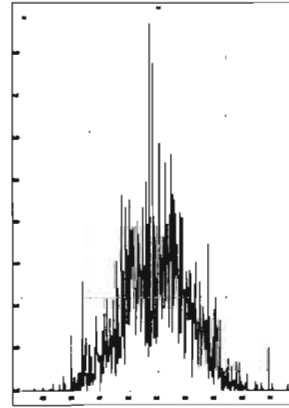
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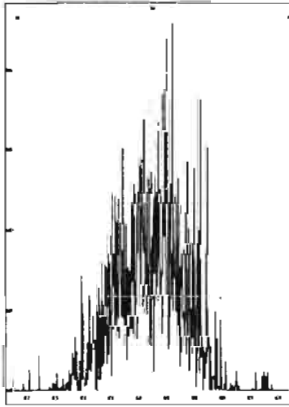
M 504.9696 R 22216
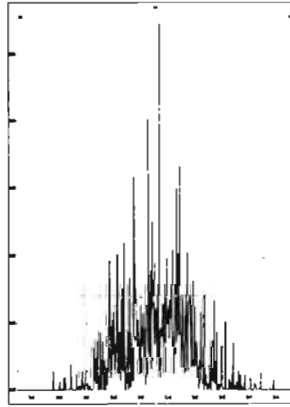
M 516.9697 R 94642

HRMS CALIBRATION STANDARDS REVIEW CHECKLIST
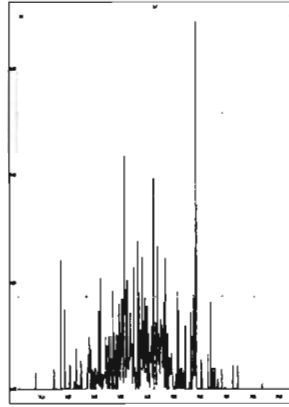
Beg. Calbration ID: _ST210607R4-1_

End Calibration ID: _ST210607R5-1_

Reviewed By: _DF66/08/21_

Initials & Date

	Beg.	End
Ion abundance within QC limits?	☑	☑
Concentrations within criteria?	☑	☑
TCDD/TCDF Valleys <25%	☑	☑
First and last eluters present?	☑	☑
Retention Times within criteria?	☑	☑
Verification Std. named correctly?	☑	☑
(ST-Year-Month-Day-VG ID)		
Forms signed and dated?	☑	☑
Correct ICAL referenced?	HN	HN

Run Log:

	Beg.	End
- Correct instrument listed?	☑	☐
- Samples within 12 hour clock?	Ⓨ	N
- Bottle position verfied?	HN	

	Beg.	End
Mass resolution ≥	☑	☑

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

	Beg.	End
Intergrated peaks display correctly?	☑	☑

GC Break <20%   [NA]

8280 CS1 End Standard:

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

Comments:

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_1.qld

Last Altered: Tuesday, June 08, 2021 10:47:15 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 10:48:37 Pacific Daylight Time

HN 06/08/21

DF 06/08/21

Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210607R4_1, Date: 07-Jun-2021, Time: 13:47:05, ID: ST210607R4_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

#	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	2.49e4	2.83e5	0.72	NO	0.929	26.70	26.70	NO	1.001	1.001	9.4797	94.8	NO
2	2 1,2,3,7,8-PeCDD	8.13e4	1.99e5	0.59	NO	0.826	31.15	31.14	NO	1.001	1.000	49.590	99.2	NO
3	3 1,2,3,4,7,8-HxCDD	6.59e4	1.35e5	1.27	NO	0.972	34.49	34.48	NO	1.001	1.000	50.316	101	NO
4	4 1,2,3,6,7,8-HxCDD	6.69e4	1.55e5	1.23	NO	0.877	34.61	34.61	NO	1.001	1.001	49.293	98.6	NO
5	5 1,2,3,7,8,9-HxCDD	6.61e4	1.52e5	1.29	NO	0.874	34.90	34.90	NO	1.000	1.000	49.863	99.7	NO
6	6 1,2,3,4,6,7,8-HpCDD	4.74e4	1.06e5	1.08	NO	0.899	38.30	38.30	NO	1.000	1.000	49.670	99.3	NO
7	7 OCDD	7.22e4	1.71e5	0.88	NO	0.852	41.36	41.37	NO	1.000	1.001	98.977	99.0	NO
8	8 2,3,7,8-TCDF	3.01e4	4.35e5	0.73	NO	0.747	26.05	26.06	NO	1.000	1.001	9.2602	92.6	NO
9	9 1,2,3,7,8-PeCDF	1.33e5	2.79e5	1.61	NO	0.877	29.93	29.94	NO	1.000	1.001	54.194	108	NO
10	10 2,3,4,7,8-PeCDF	1.34e5	2.65e5	1.59	NO	0.962	30.96	30.95	NO	1.001	1.000	52.700	105	NO
11	11 1,2,3,4,7,8-HxCDF	8.64e4	1.89e5	1.23	NO	0.920	33.53	33.54	NO	1.000	1.001	49.793	99.6	NO
12	12 1,2,3,6,7,8-HxCDF	9.27e4	2.00e5	1.26	NO	0.936	33.69	33.68	NO	1.001	1.000	49.498	99.0	NO
13	13 2,3,4,6,7,8-HxCDF	8.56e4	1.76e5	1.22	NO	0.973	34.38	34.37	NO	1.001	1.000	49.893	99.8	NO
14	14 1,2,3,7,8,9-HxCDF	6.84e4	1.50e5	1.26	NO	0.940	35.45	35.45	NO	1.000	1.000	48.522	97.0	NO
15	15 1,2,3,4,6,7,8-HpCDF	6.31e4	1.23e5	0.99	NO	1.05	37.08	37.08	NO	1.000	1.001	49.135	98.3	NO
16	16 1,2,3,4,7,8,9-HpCDF	5.25e4	9.91e4	1.03	NO	1.05	38.95	38.95	NO	1.000	1.000	50.695	101	NO
17	17 OCDF	8.70e4	2.32e5	0.86	NO	0.771	41.69	41.70	NO	1.000	1.001	97.181	97.2	NO
18	18 13C-2,3,7,8-TCDD	2.83e5	2.59e5	0.77	NO	1.10	26.66	26.67	NO	1.027	1.027	99.021	99.0	NO
19	19 13C-1,2,3,7,8-PeCDD	1.99e5	2.59e5	0.61	NO	0.864	31.03	31.12	NO	1.196	1.199	88.922	88.9	NO
20	20 13C-1,2,3,4,7,8-HxCDD	1.35e5	2.04e5	1.27	NO	0.746	34.46	34.47	NO	1.014	1.014	88.481	88.5	NO
21	21 13C-1,2,3,6,7,8-HxCDD	1.55e5	2.04e5	1.30	NO	0.847	34.58	34.59	NO	1.017	1.018	89.622	89.6	NO
22	22 13C-1,2,3,7,8,9-HxCDD	1.52e5	2.04e5	1.24	NO	0.868	34.88	34.88	NO	1.026	1.026	85.582	85.6	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.06e5	2.04e5	1.05	NO	0.664	38.23	38.29	NO	1.125	1.126	78.373	78.4	NO
24	24 13C-OCDD	1.71e5	2.04e5	0.88	NO	0.561	41.18	41.35	NO	1.211	1.216	149.65	74.8	NO
25	25 13C-2,3,7,8-TCDF	4.35e5	4.12e5	0.78	NO	1.09	26.05	26.05	NO	1.003	1.003	96.625	96.6	NO
26	26 13C-1,2,3,7,8-PeCDF	2.79e5	4.12e5	1.62	NO	0.809	29.76	29.93	NO	1.147	1.153	83.733	83.7	NO
27	27 13C-2,3,4,7,8-PeCDF	2.65e5	4.12e5	1.61	NO	0.803	30.73	30.94	NO	1.184	1.192	80.181	80.2	NO
28	28 13C-1,2,3,4,7,8-HxCDF	1.89e5	2.04e5	0.49	NO	1.01	33.54	33.52	NO	0.987	0.986	91.403	91.4	NO
29	29 13C-1,2,3,6,7,8-HxCDF	2.00e5	2.04e5	0.49	NO	1.07	33.67	33.67	NO	0.990	0.990	91.305	91.3	NO
30	30 13C-2,3,4,6,7,8-HxCDF	1.76e5	2.04e5	0.50	NO	0.910	34.36	34.36	NO	1.011	1.011	95.032	95.0	NO
31	31 13C-1,2,3,7,8,9-HxCDF	1.50e5	2.04e5	0.51	NO	0.828	35.43	35.44	NO	1.042	1.042	88.801	88.8	NO

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_1.qld

Last Altered: Tuesday, June 08, 2021 10:47:15 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 10:48:37 Pacific Daylight Time

Name: 210607R4_1, Date: 07-Jun-2021, Time: 13:47:05, ID: ST210607R4_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

	# 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	1.23e5	2.04e5	0.42	NO	0.661	37.04	37.06	NO	1.090	1.090	90.936	90.9	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	9.91e4	2.04e5	0.40	NO	0.566	38.80	38.94	NO	1.141	1.145	85.852	85.9	NO
34	34 13C-OCDF	2.32e5	2.04e5	0.87	NO	0.663	41.57	41.68	NO	1.223	1.226	171.78	85.9	NO
35	35 37Cl-2,3,7,8-TCDD	4.89e4	2.59e5			2.07	26.86	26.70	NO	1.035	1.028	9.1478	91.5	NO
36	36 13C-1,2,3,4-TCDD	2.59e5	2.59e5	0.78	NO	1.00	26.07	25.96	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	4.12e5	4.12e5	0.77	NO	1.00	24.76	24.61	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	2.04e5	2.04e5	0.49	NO	1.00	34.04	33.99	NO	1.000	1.000	100.00	100	YES

Dataset: Untitled

Last Altered: Tuesday, June 08, 2021 10:48:52 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 10:49:08 Pacific Daylight Time

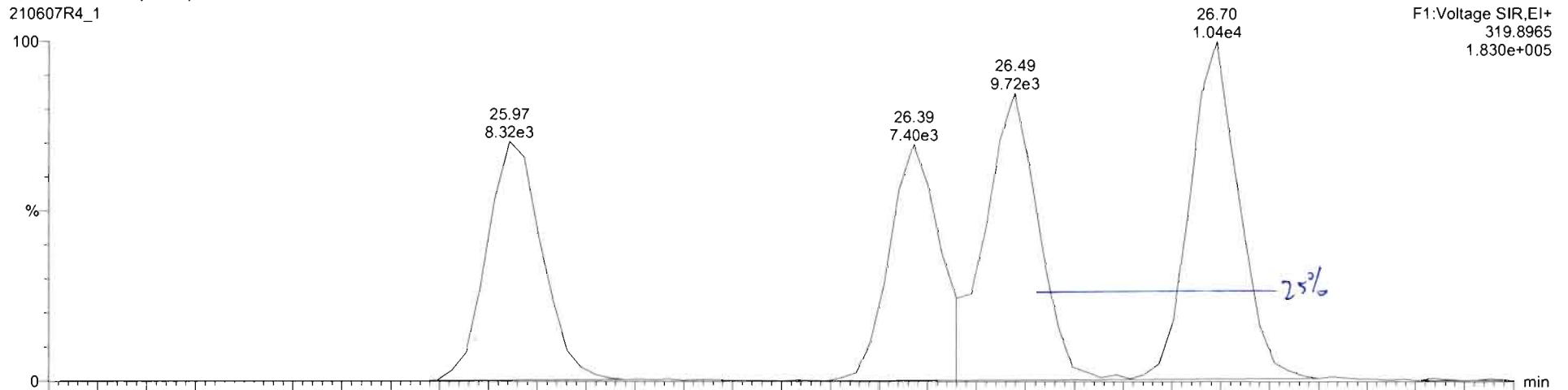**Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38**
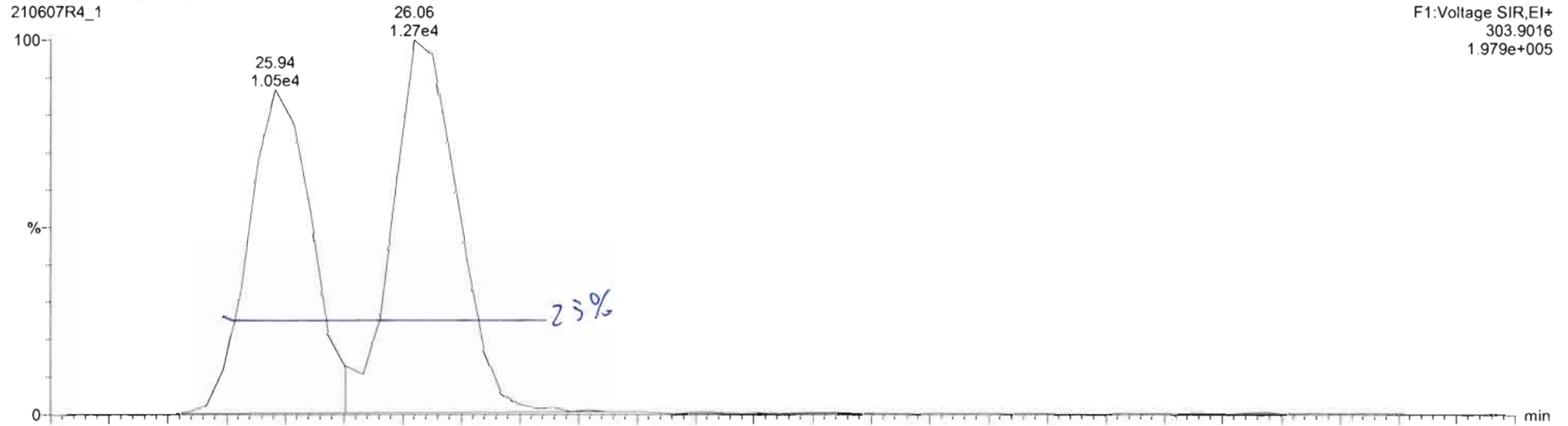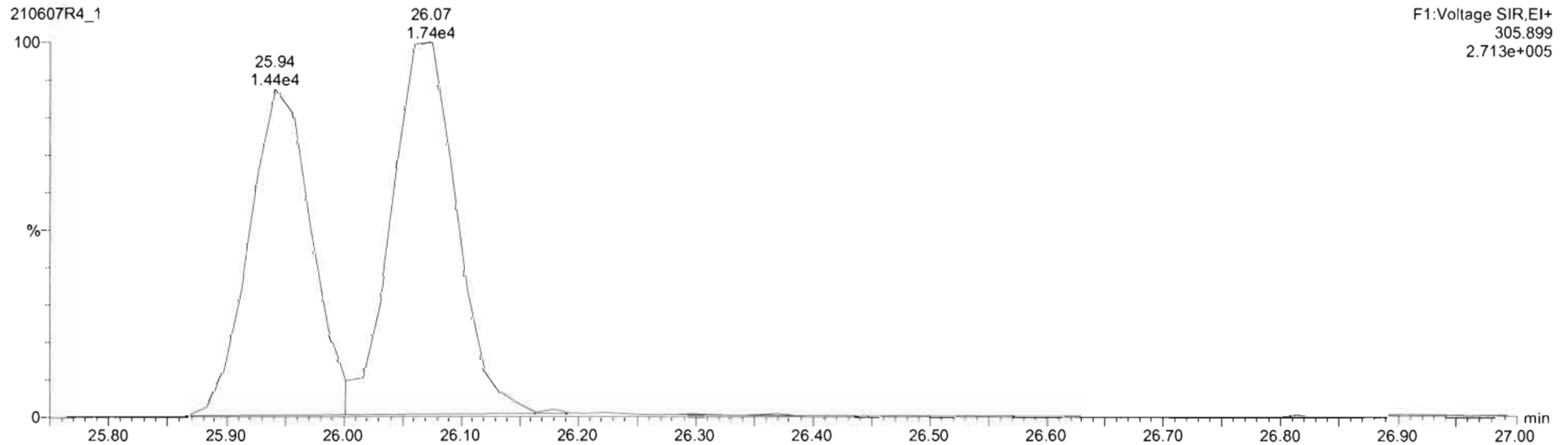**Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26**

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

	Name	ID	Acq.Date	Acq.Time
1	210607R4_1	ST210607R4_1 1613 CS3 21C0105	07-Jun-21	13:47:05
2	210607R4_2	B1F0027-BS1 OPR 1	07-Jun-21	14:35:10
3	210607R4_3	SOLVENT BLANK	07-Jun-21	15:24:39
4	210607R4_4	B1F0027-BLK1 Method Blank 1	07-Jun-21	16:09:54
5	210607R4_5	2105037-01RE1 SC-FB-2105030940 1.0001	07-Jun-21	17:00:14
6	210607R4_6	2105037-02RE1 SC-RB-2105030901 1.03522	07-Jun-21	17:46:08
7	210607R4_7	HRMS-210603-05	07-Jun-21	18:30:27
8	210607R4_8	SOLVENT BLANK	07-Jun-21	19:14:42
9	210607R4_9	B1E0193-BLK1 Method Blank 1	07-Jun-21	19:58:57
10	210607R4_10	2105037-01 SC-FB-2105030940 1.00168	07-Jun-21	20:43:11
11	210607R4_11	2105037-02 SC-RB-2105030901 1.02432	07-Jun-21	21:27:26
12	210607R4_12	2105089-01RE1 Ads A 1.03068	07-Jun-21	22:11:40
13	210607R4_13	Ⓐ		
14	210607R4_14			
15	210607R4_15			
16	210607R5_1			
17	210607R5_2	ST210607R5_1 1613 CS3 21C0105	08-Jun-21	08:55:38

Ⓐ Instrument paused, end CCal injected & end resolution check printed HN 06/08/21

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

Printed: Monday, June 07, 2021 13:41:54 Pacific Daylight Time
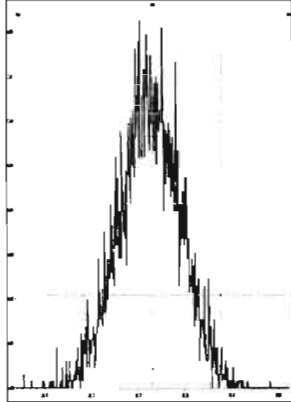
M 292.9824 R 10459	M 304.9824 R 10913	M 318.9792 R 10245	M 330.9792 R 10414
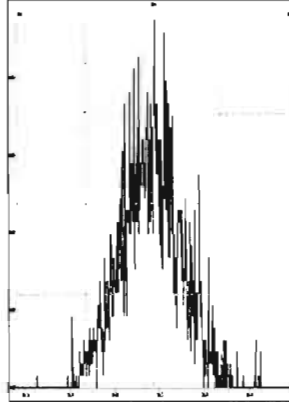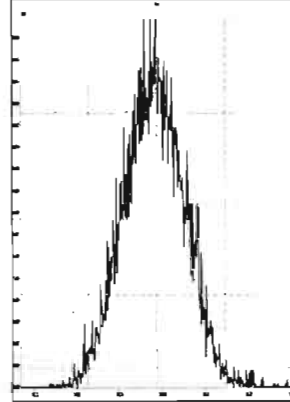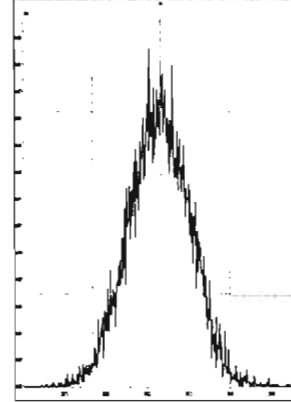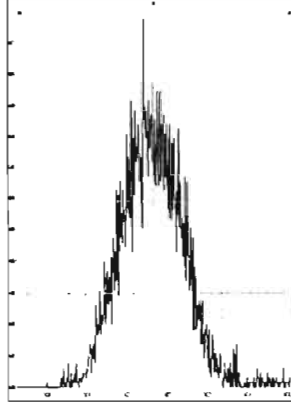
M 342.9792 R 11013	M 354.9792 R 11259	M 366.9792 R 12255	M 380.9760 R 10507
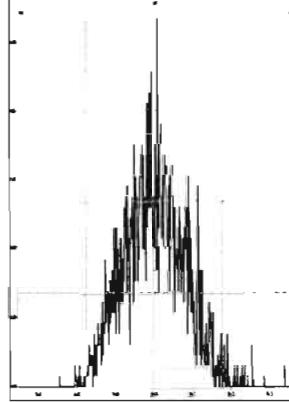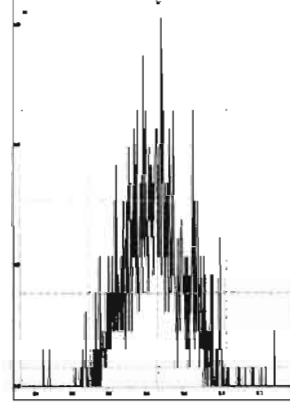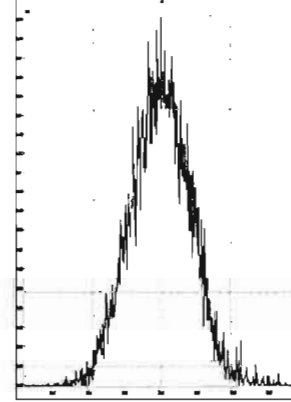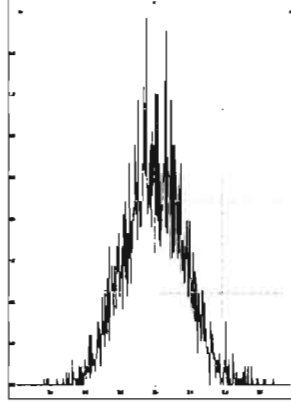
M 392.9760 R 11521	M 404.9760 R 12498	M 416.9760 R 12137
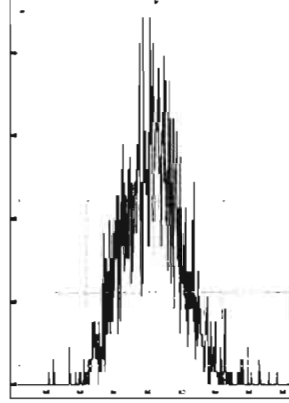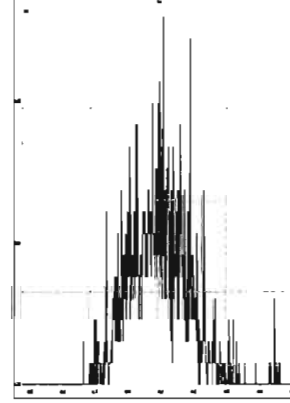
File: Experiment: OCDD_DIOXIN.exp   Reference: Pfk.ref   Function: 2 @ 200 (ppm)

Printed: Monday, June 07, 2021 13:42:49 Pacific Daylight Time
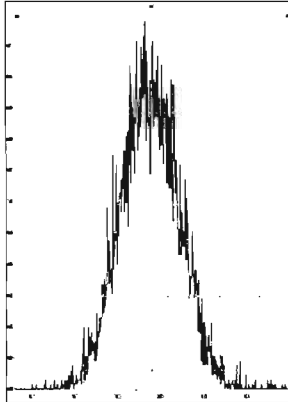
M 318.9792 R 10372   M 330.9792 R 10123   M 342.9792 R 11066   M 354.9792 R 11263
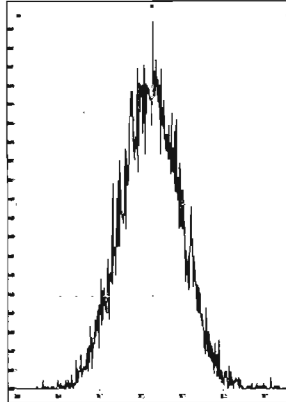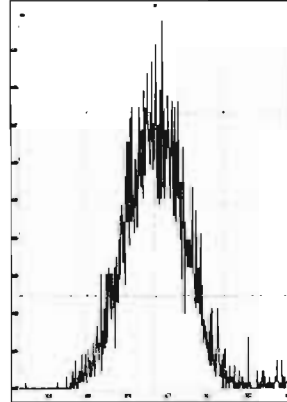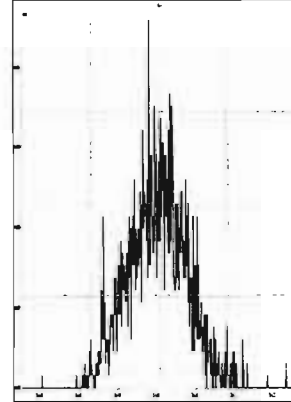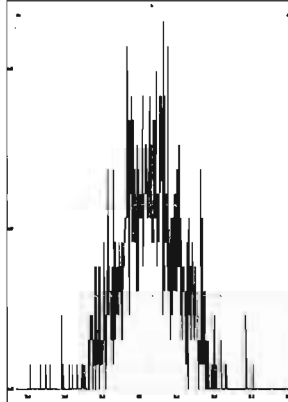
M 366.9792 R 12562   M 380.9760 R 10502   M 392.9760 R 11111   M 404.9760 R 11109
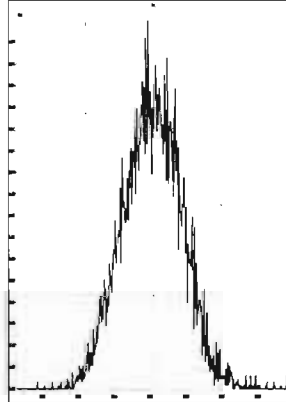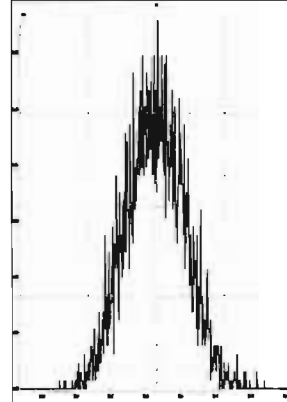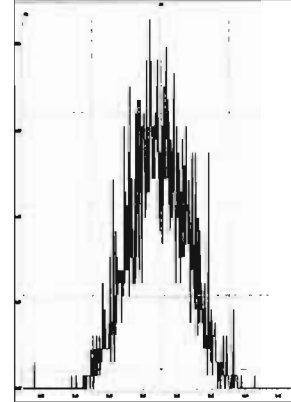
M 416.9760 R 11905
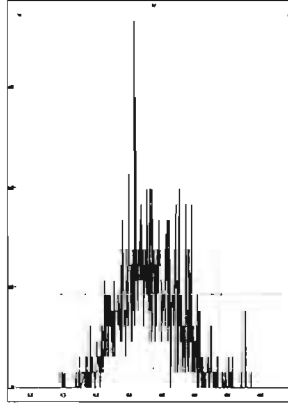
File: Experiment: OCDD_DIOXIN.exp   Reference: Pfk.ref   Function: 3 @ 200 (ppm)

Printed: Monday, June 07, 2021 13:43:25 Pacific Daylight Time
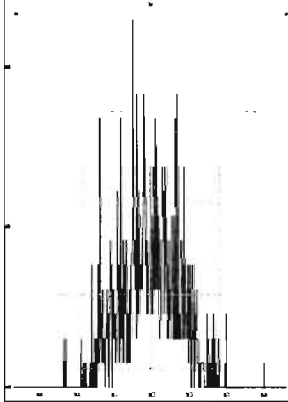
M 366.9792 R 11845	M 380.9760 R 10822	M 392.9760 R 10871	M 404.9760 R 11160
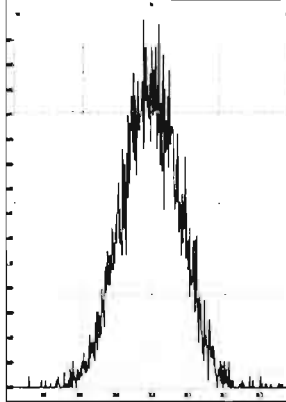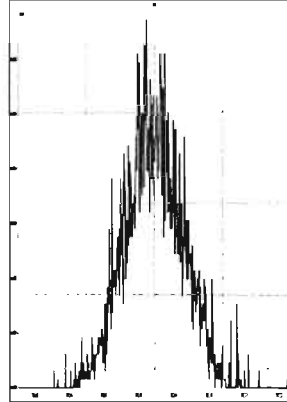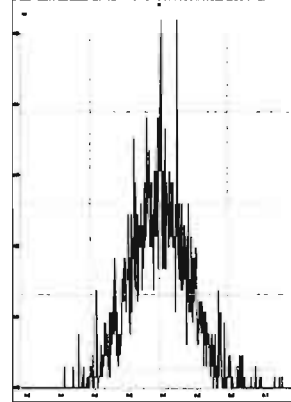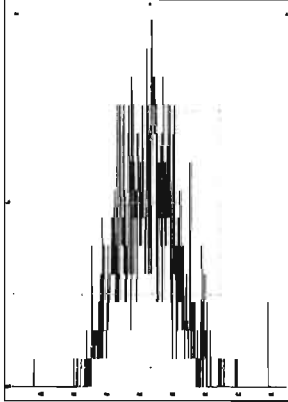
M 416.9760 R 12252	M 430.9728 R 10684	M 442.9728 R 11735	M 454.9728 R 11574
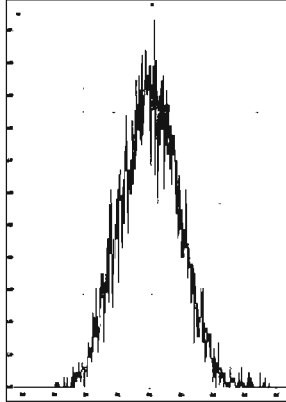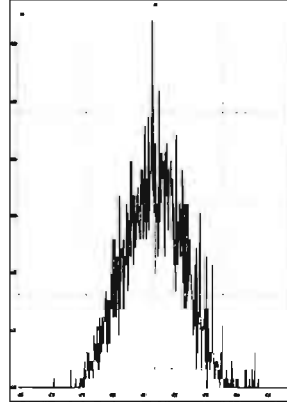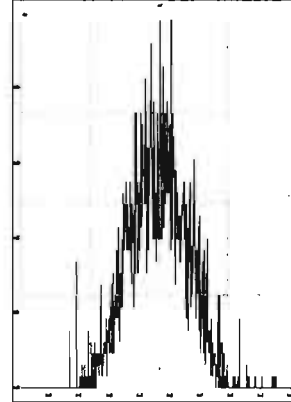
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Printed: Monday, June 07, 2021 13:45:18 Pacific Daylight Time
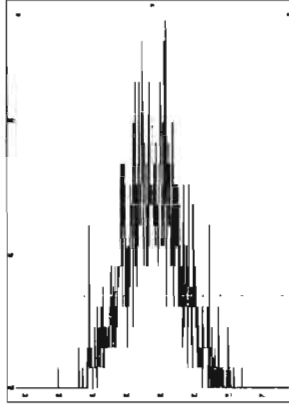
M 404.9760 R 13084 M 416.9760 R 15149 M 430.9728 R 11208 M 442.9728 R 11961
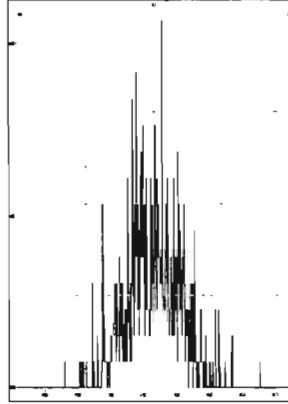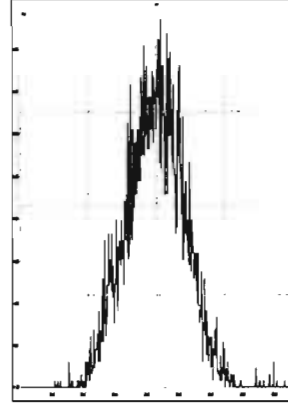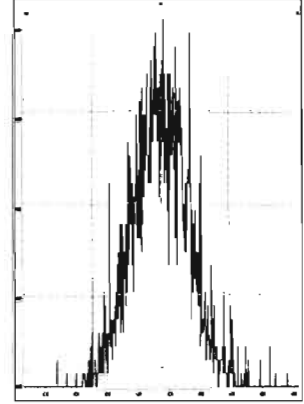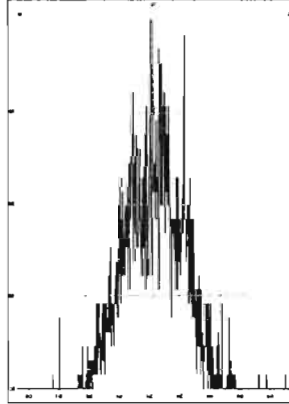
M 454.9728 R 11683 M 466.9728 R 14044 M 480.9696 R 11629
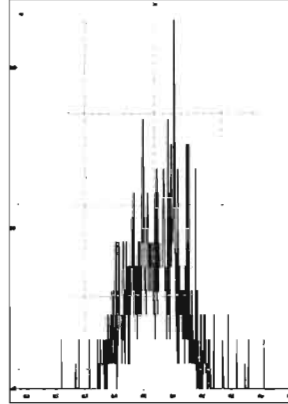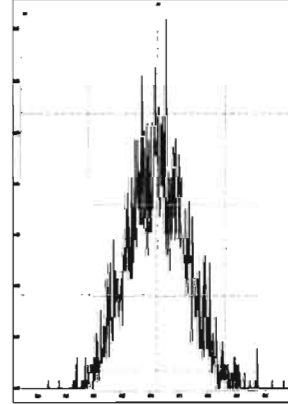
File: Experiment: OCDD_DIOXIN.exp   Reference: Pfk.ref   Function: 5 @ 200 (ppm)

Printed: Monday, June 07, 2021 13:45:57 Pacific Daylight Time
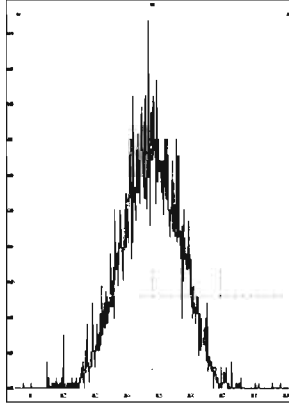
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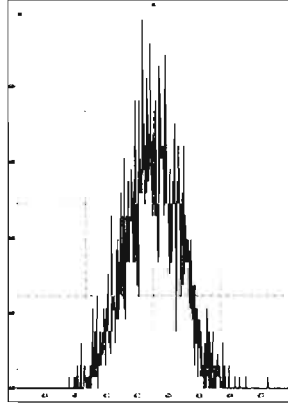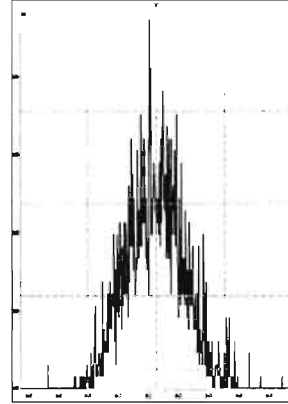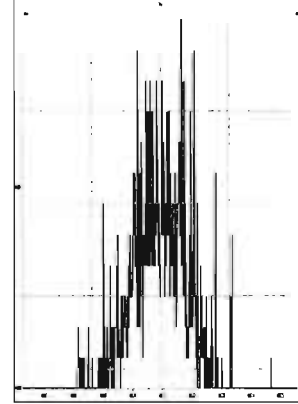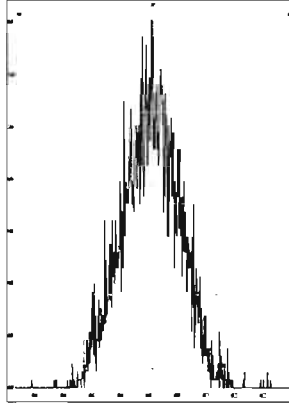
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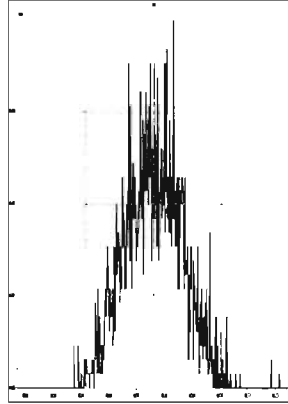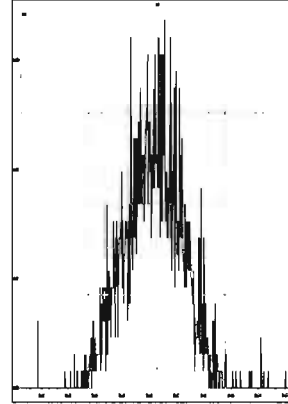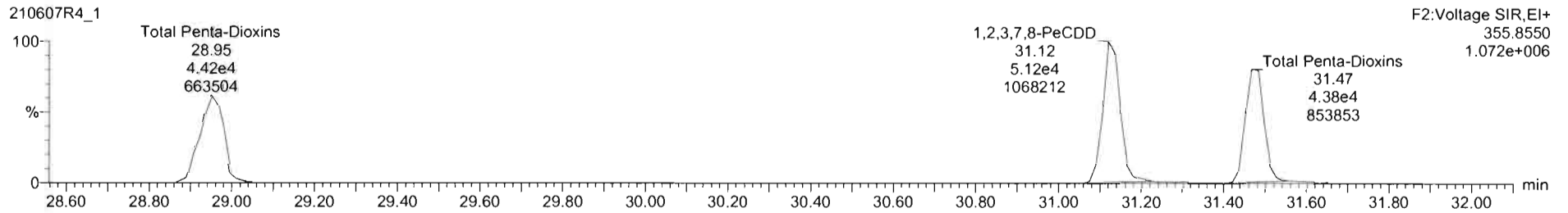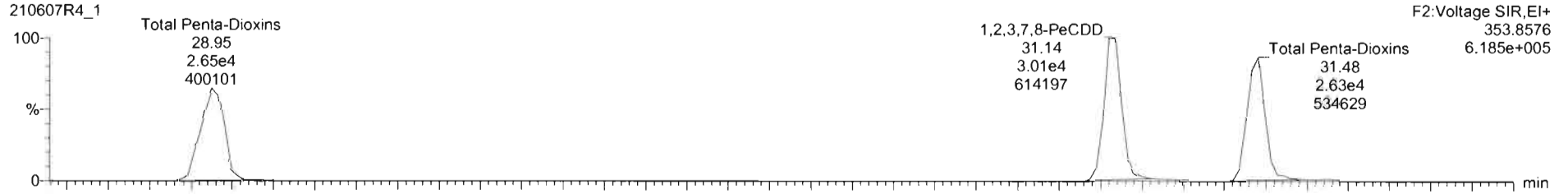
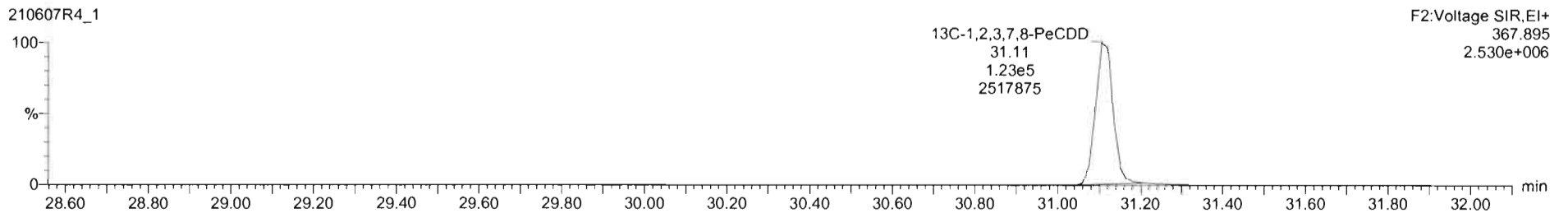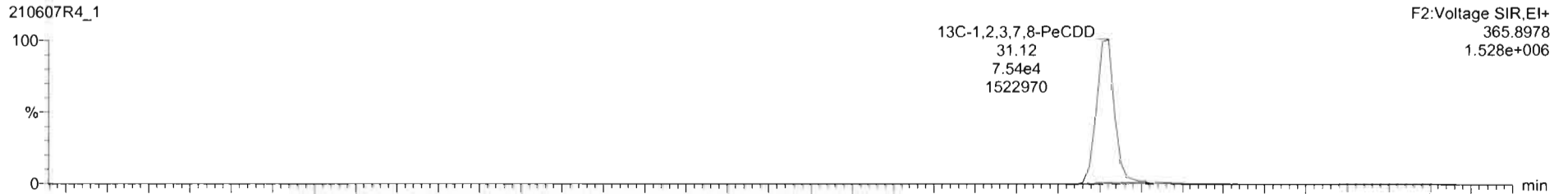Dataset: U:\VG12.PRO\Results\210607R4\210607R4_CPSM.qld

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Printed: Tuesday, June 08, 2021 10:31:36 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 18 May 2021 09:49:43
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210607R4_1, Date: 07-Jun-2021, Time: 13:47:05, ID: ST210607R4_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

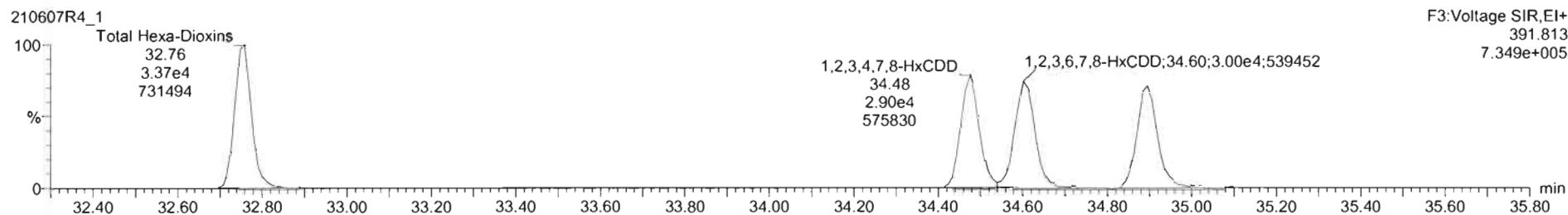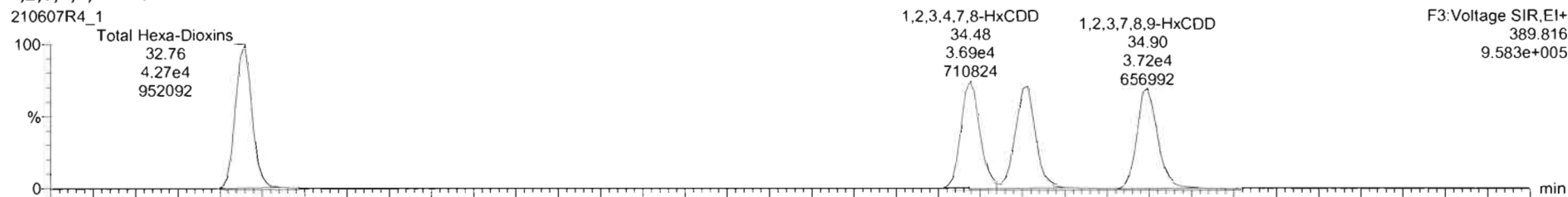| #	Name	RT
1	1 1,3,6,8-TCDD (First)	23.24
2	2 1,2,8,9-TCDD (Last)	27.54
3	3 1,2,4,7,9-PeCDD (First)	28.95
4	4 1,2,3,8,9-PeCDD (Last)	31.48
5	5 1,2,4,6,7,9-HxCDD (First)	32.76
6	6 1,2,3,7,8,9-HxCDD (Last)	34.90
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.41
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.30
9	9 1,3,6,8-TCDF (First)	21.08
10	10 1,2,8,9-TCDF (Last)	27.85
11	11 1,3,4,6,8-PeCDF (First)	27.39
12	12 1,2,3,8,9-PeCDF (Last)	31.84
13	13 1,2,3,4,6,8-HxCDF (First)	32.23
14	14 1,2,3,7,8,9-HxCDF (Last)	35.45
15	15 1,2,3,4,6,7,8-HpCDF (First)	37.08
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.95

Quantify Sample Report   **MassLynx 4.1 SCN815**

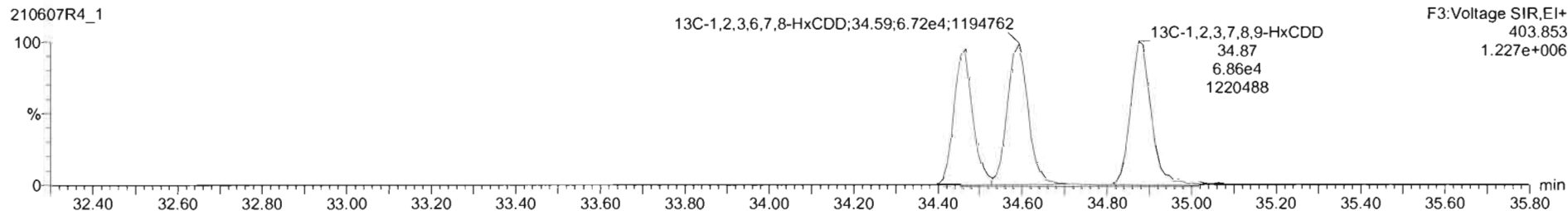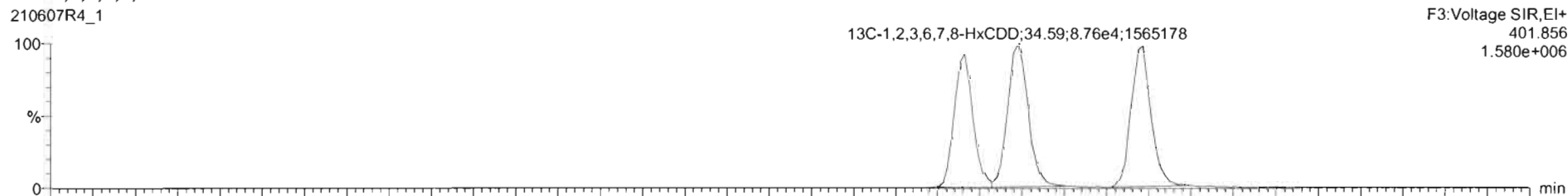Vista Analytical Laboratory VG-11

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_CPSM.qld

Last Altered: Tuesday, June 08, 2021 10:31:12 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 10:31:36 Pacific Daylight Time

HN 06/08/21

Method: U:\VG12.PRO\MethDB\CPSM.mdb 18 May 2021 09:49:43
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210607R4_1, Date: 07-Jun-2021, Time: 13:47:05, ID: ST210607R4_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105
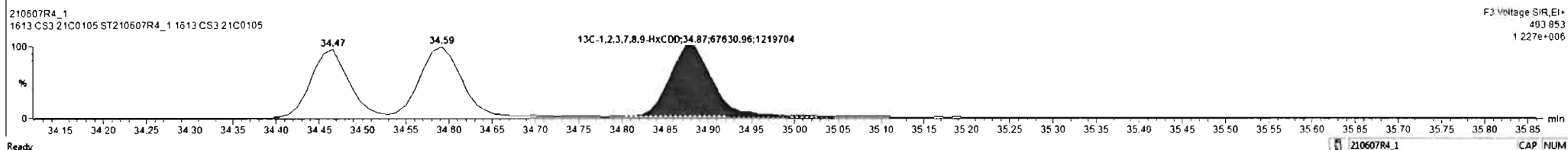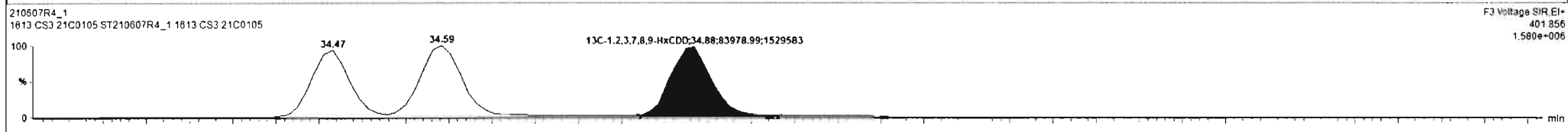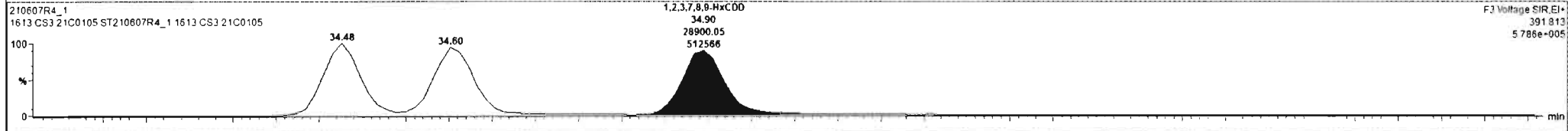
1,3,6,8-TCDD (First)

Vista Analytical Laboratory VG-11

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_CPSM.qld

Last Altered: Tuesday, June 08, 2021 10:31:12 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 10:31:36 Pacific Daylight Time

FIN 06/08/21

Name: 210607R4_1, Date: 07-Jun-2021, Time: 13:47:05, ID: ST210607R4_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

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

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_1.qld

Last Altered: Tuesday, June 08, 2021 10:27:41 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 10:30:33 Pacific Daylight Time

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Name: 210607R4_1, Date: 07-Jun-2021, Time: 13:47:05, ID: ST210607R4_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

2,3,7,8-TCDD

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

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_1.qld

Last Altered: Tuesday, June 08, 2021 10:27:41 Pacific Daylight Time
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Name: 210607R4_1, Date: 07-Jun-2021, Time: 13:47:05, ID: ST210607R4_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

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

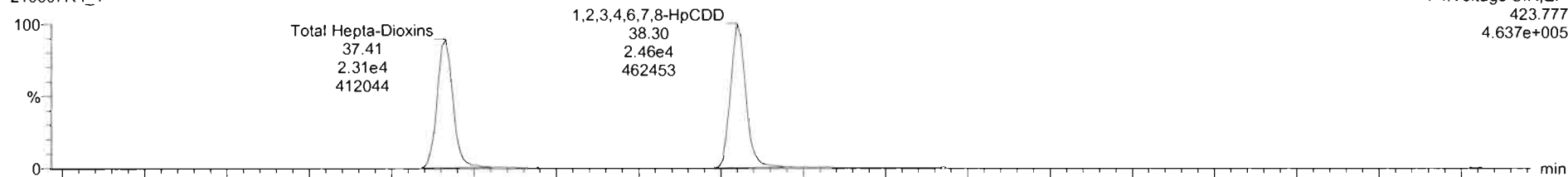**13C-1,2,3,4-TCDD**

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_1.qld

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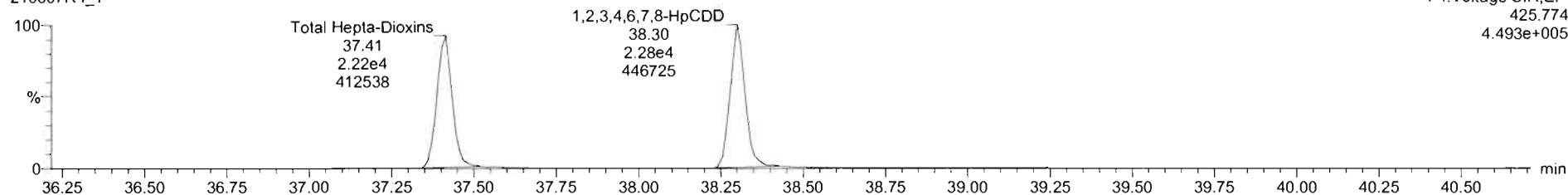
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1,2,3,7,8-PeCDD

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

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Last Altered: Tuesday, June 08, 2021 10:27:41 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 10:30:33 Pacific Daylight Time

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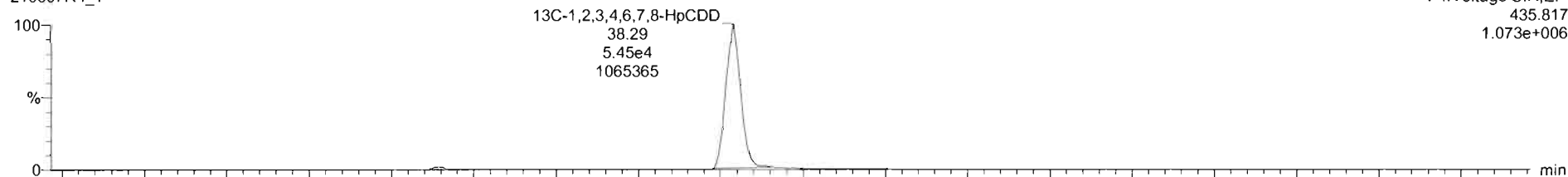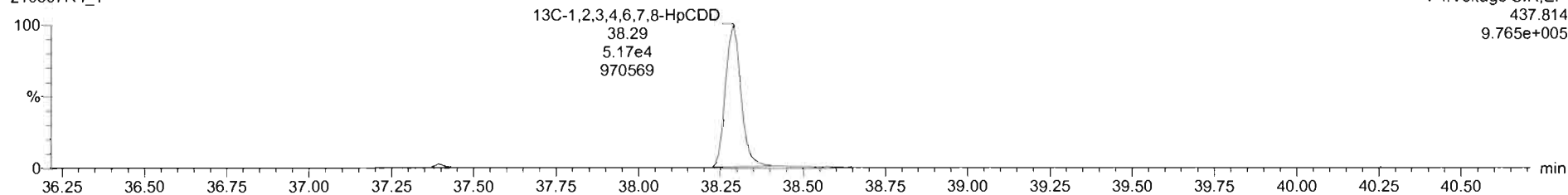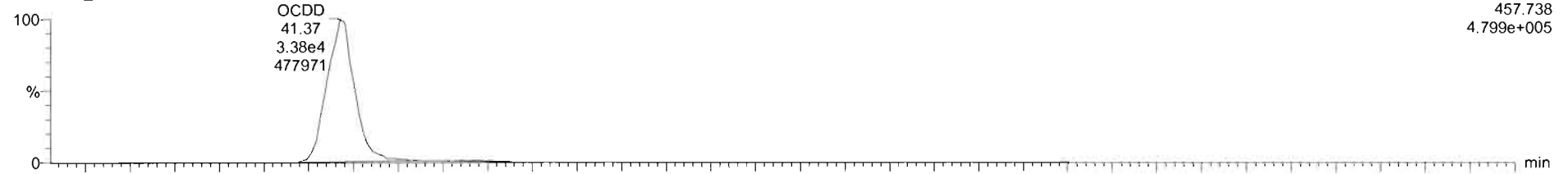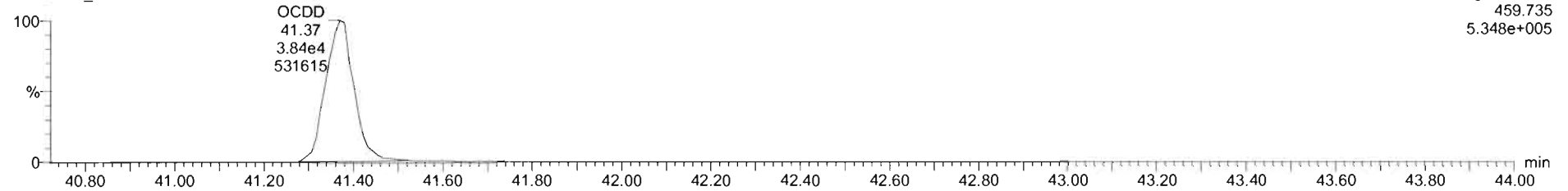
1,2,3,4,7,8-HxCDD
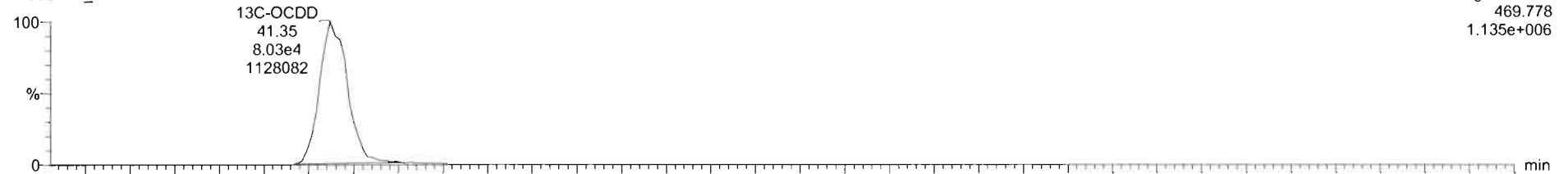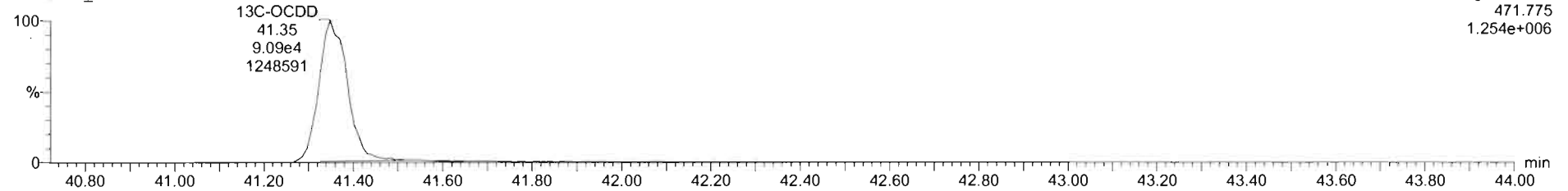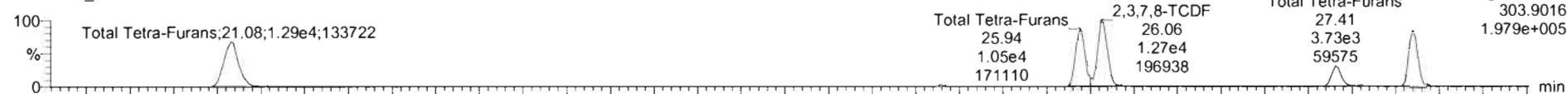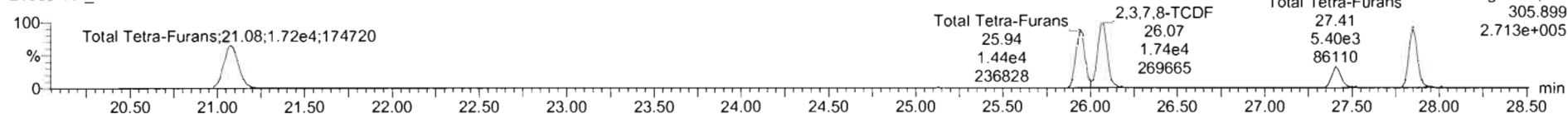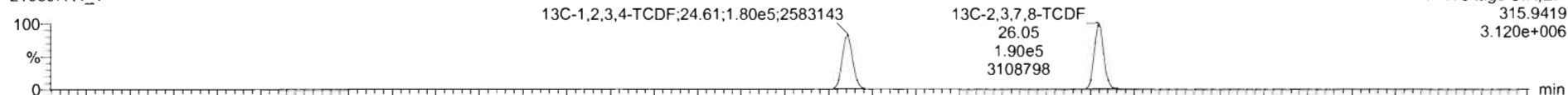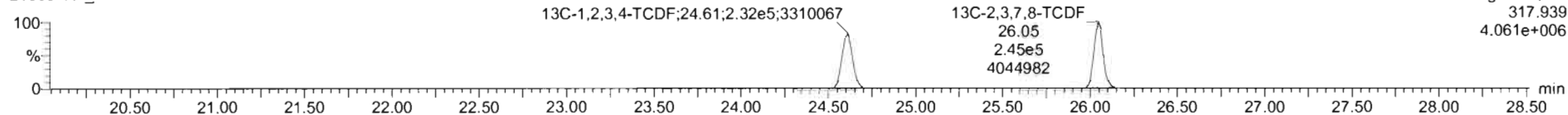

13C-1,2,3,4,7,8-HxCDD

210607R4_1 - ST210607R4_1 1613 CS3 21C0105 - 1613 CS3 21C0105

#	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	2.49e4	2.83e5	0.77	0.72	NO	0.9291	26.70	26.70	NO	1.001	1.001	9.48	94.8	NO
2	2	1,2,3,7,8-PeCDD	8.13e4	1.99e5	0.63	0.59	NO	0.8257	31.15	31.14	NO	1.001	1.000	49.6	99.2	NO
3	3	1,2,3,4,7,8-HxCDD	8.59e4	1.35e5	1.24	1.27	NO	0.9725	34.49	34.48	NO	1.001	1.000	50.3	101	NO
4	4	1,2,3,6,7,8-HxCDD	6.69e4	1.55e5	1.24	1.23	NO	0.8771	34.61	34.61	NO	1.001	1.001	49.3	98.6	NO
5	5	1,2,3,7,8,9-HxCDD	8.61e4	1.52e5	1.24	1.29	NO	0.8739	34.90	34.90	NO	1.000	1.000	49.9	99.7	NO
6	6	1,2,3,4,6,7,8-HpCDD	4.74e4	1.06e5	1.04	1.08	NO	0.8987	38.30	38.30	NO	1.000	1.000	49.7	99.3	NO
7	7	OCDD	7.22e4	1.71e5	0.89	0.88	NO	0.8524	41.36	41.37	NO	1.000	1.001	99.0	99.0	NO
8	8	2,3,7,8-TCDF	3.01e4	4.35e5	0.77	0.73	NO	0.7466	26.05	26.06	NO	1.000	1.001	9.26	92.6	NO
9	9	1,2,3,7,8-PeCDF	1.33e5	2.79e5	1.55	1.61	NO	0.8771	29.93	29.94	NO	1.000	1.001	54.2	108	NO
10	10	2,3,4,7,8-PeCDF	1.34e5	2.65e5	1.55	1.59	NO	0.9821	30.96	30.95	NO	1.001	1.000	52.7	105	NO
11	11	1,2,3,4,7,8-HxCDF	8.64e4	1.89e5	1.24	1.23	NO	0.9202	33.53	33.54	NO	1.000	1.001	49.8	99.6	NO
12	12	1,2,3,6,7,8-HxCDF	9.27e4	2.00e5	1.24	1.26	NO	0.9363	33.69	33.68	NO	1.001	1.000	49.5	99.0	NO
13	13	2,3,4,6,7,8-HxCDF	8.56e4	1.76e5	1.24	1.22	NO	0.9725	34.38	34.37	NO	1.001	1.000	49.9	99.8	NO
14	14	1,2,3,7,8,9-HxCDF	6.84e4	1.50e5	1.24	1.26	NO	0.9396	35.45	35.45	NO	1.000	1.000	48.5	97.0	NO

210607R4_1
1613 CS3 21C0105 ST210607R4_1 1613 CS3 21C0105
F3 Voltage SIR,EI+
389.816
7.145e+005

34.48   34.61   1,2,3,7,8,9-HxCDD;34.90;37166.48;656992

210607R4_1
1613 CS3 21C0105 ST210607R4_1 1613 CS3 21C0105
F3 Voltage SIR,EI+
391.813
5.786e+005

1,2,3,7,8,9-HxCDD
34.48   34.60   34.90
28900.05
512566

210607R4_1
1613 CS3 21C0105 ST210607R4_1 1613 CS3 21C0105
F3 Voltage SIR,EI+
401.856
1.580e+006

34.47   34.59   13C-1,2,3,7,8,9-HxCDD;34.88;83978.99;1529583

210607R4_1
1613 CS3 21C0105 ST210607R4_1 1613 CS3 21C0105
F3 Voltage SIR,EI+
403.853
1.227e+006

34.47   34.59   13C-1,2,3,7,8,9-HxCDD;34.87;67630.96;1219704

34.15 34.20 34.25 34.30 34.35 34.40 34.45 34.50 34.55 34.60 34.65 34.70 34.75 34.80 34.85 34.90 34.95 35.00 35.05 35.10 35.15 35.20 35.25 35.30 35.35 35.40 35.45 35.50 35.55 35.60 35.65 35.70 35.75 35.80 35.85

Ready
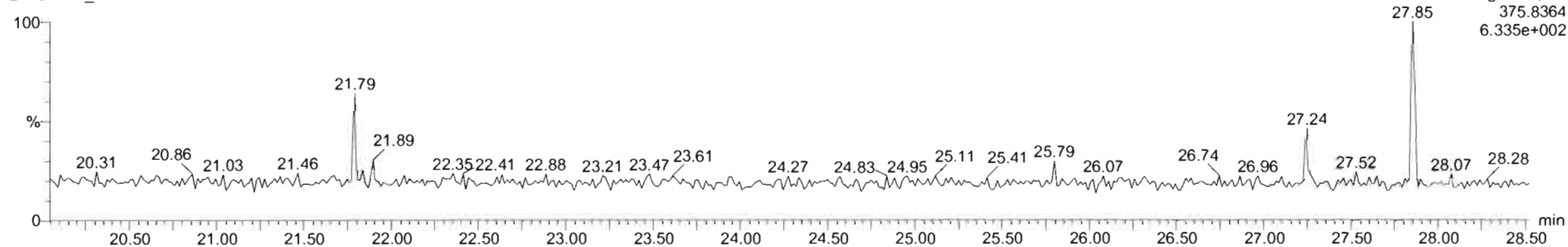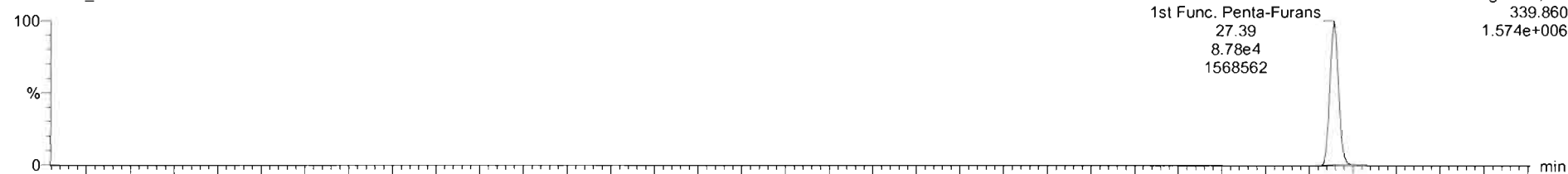
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Printed: Tuesday, June 08, 2021 10:30:33 Pacific Daylight Time
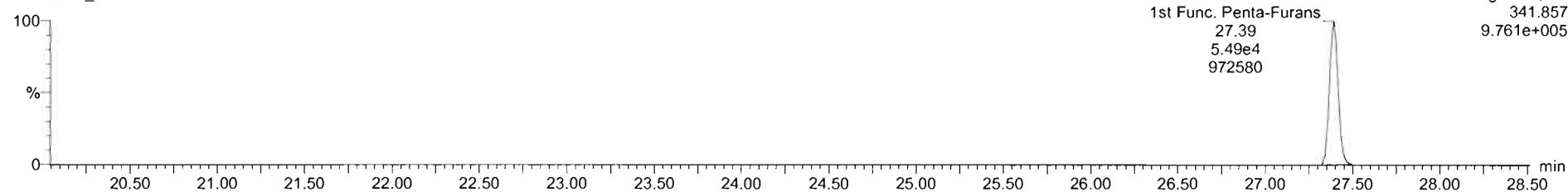
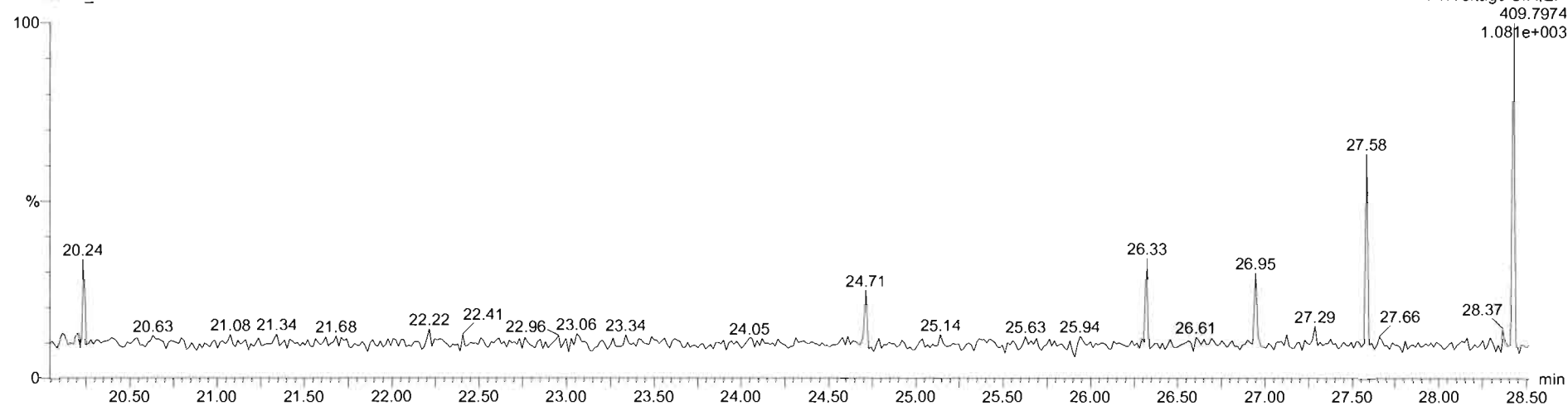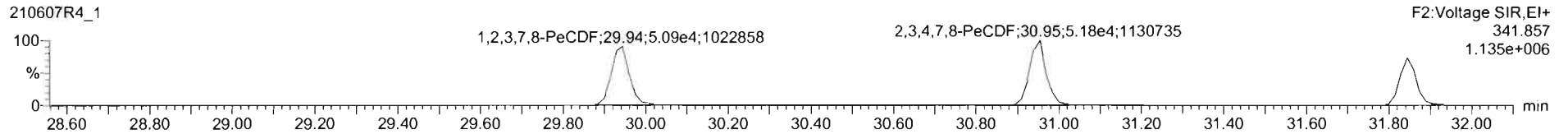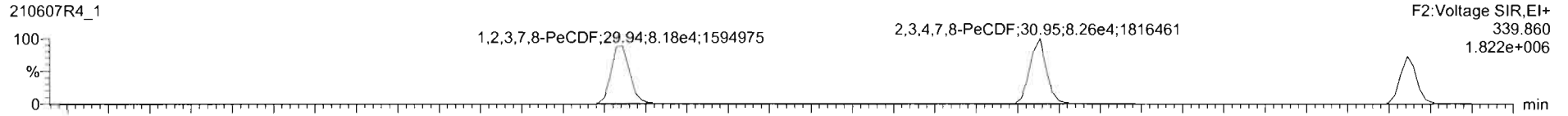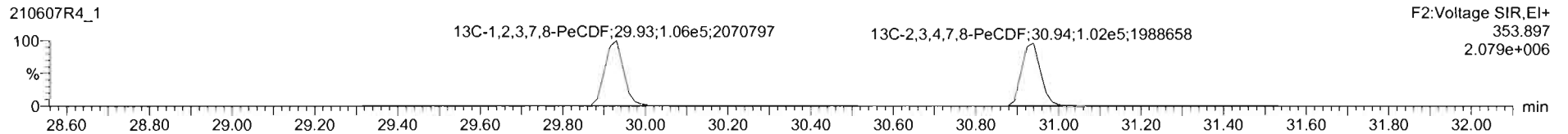**Name: 210607R4_1, Date: 07-Jun-2021, Time: 13:47:05, ID: ST210607R4_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105**
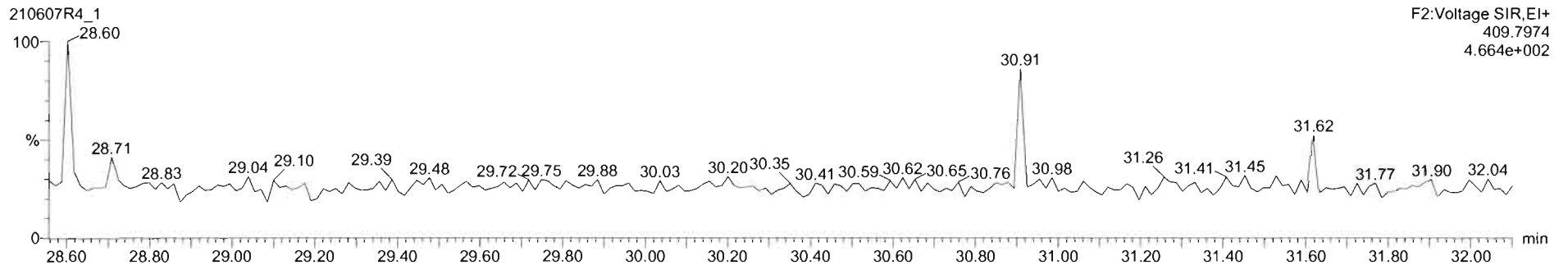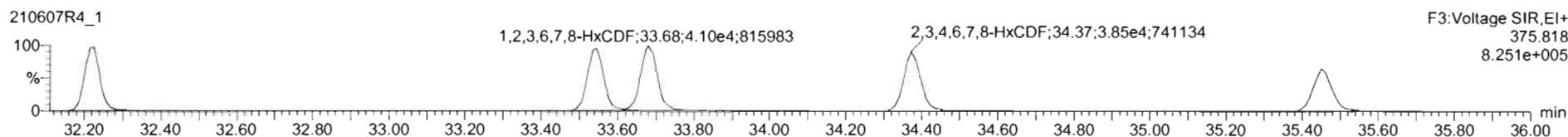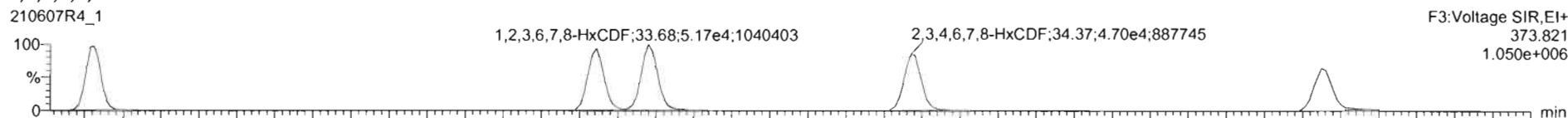
1,2,3,4,6,7,8-HpCDD

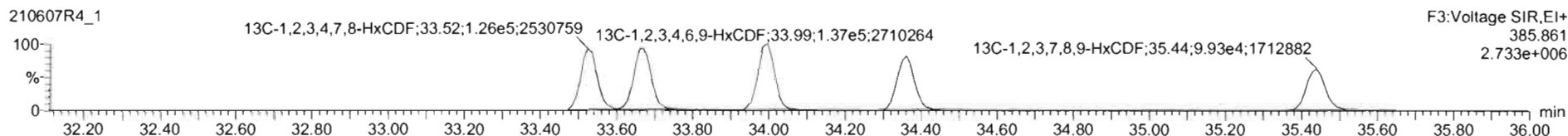Dataset: U:\VG12.PRO\Results\210607R4\210607R4_1.qld

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Printed: Tuesday, June 08, 2021 10:30:33 Pacific Daylight Time

Name: 210607R4_1, Date: 07-Jun-2021, Time: 13:47:05, ID: ST210607R4_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

OCDD

13C-OCDD

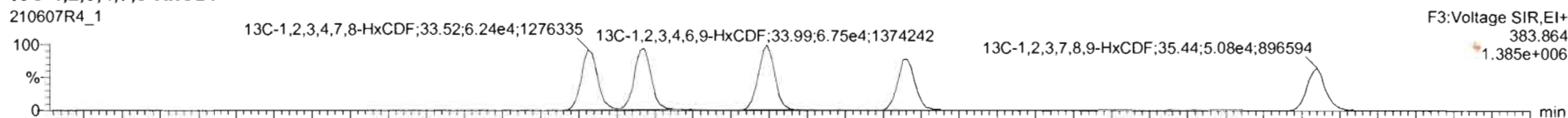Dataset: U:\VG12.PRO\Results\210607R4\210607R4_1.qld

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Printed: Tuesday, June 08, 2021 10:30:33 Pacific Daylight Time

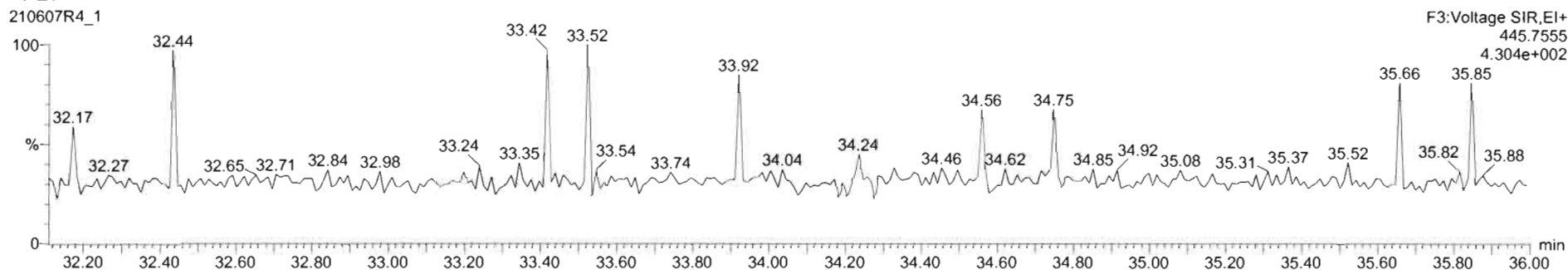**Name: 210607R4_1, Date: 07-Jun-2021, Time: 13:47:05, ID: ST210607R4_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105**

2,3,7,8-TCDF
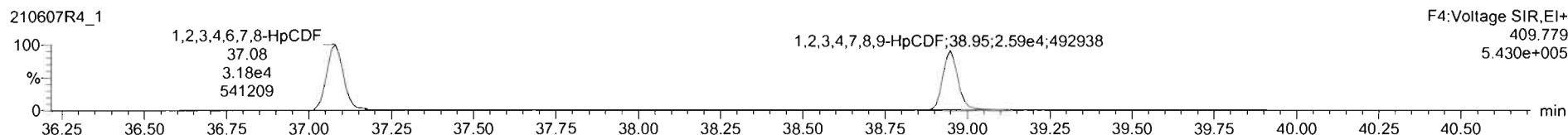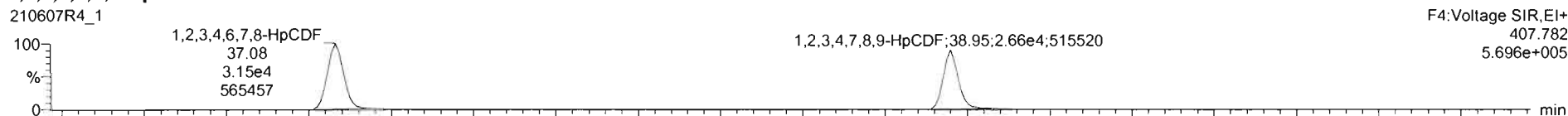

13C-2,3,7,8-TCDF

DPE1

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_1.qld

Last Altered: Tuesday, June 08, 2021 10:27:41 Pacific Daylight Time
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Name: 210607R4_1, Date: 07-Jun-2021, Time: 13:47:05, ID: ST210607R4_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

1st Func. Penta-Furans

DPE6

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_1.qld
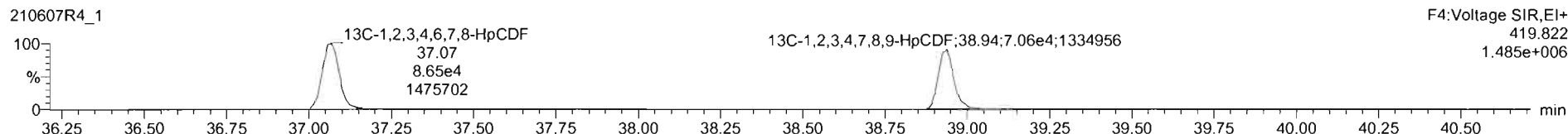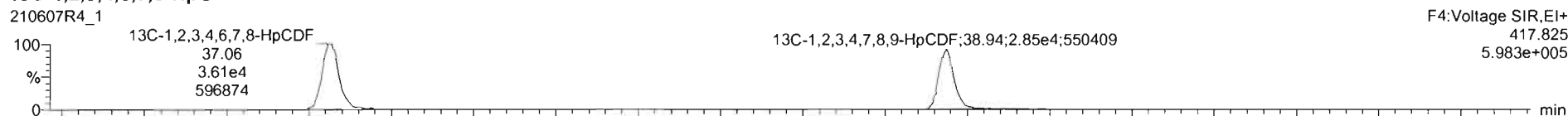
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Name: 210607R4_1, Date: 07-Jun-2021, Time: 13:47:05, ID: ST210607R4_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

1,2,3,7,8-PeCDF

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

DPE2

Dataset: U:\VG12.PRO\Results\210607R4\210607R4_1.qld

Last Altered: Tuesday, June 08, 2021 10:27:41 Pacific Daylight Time
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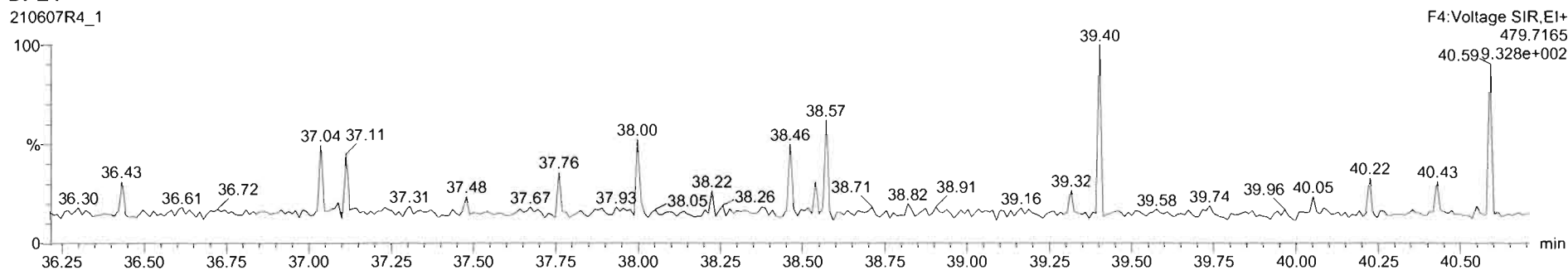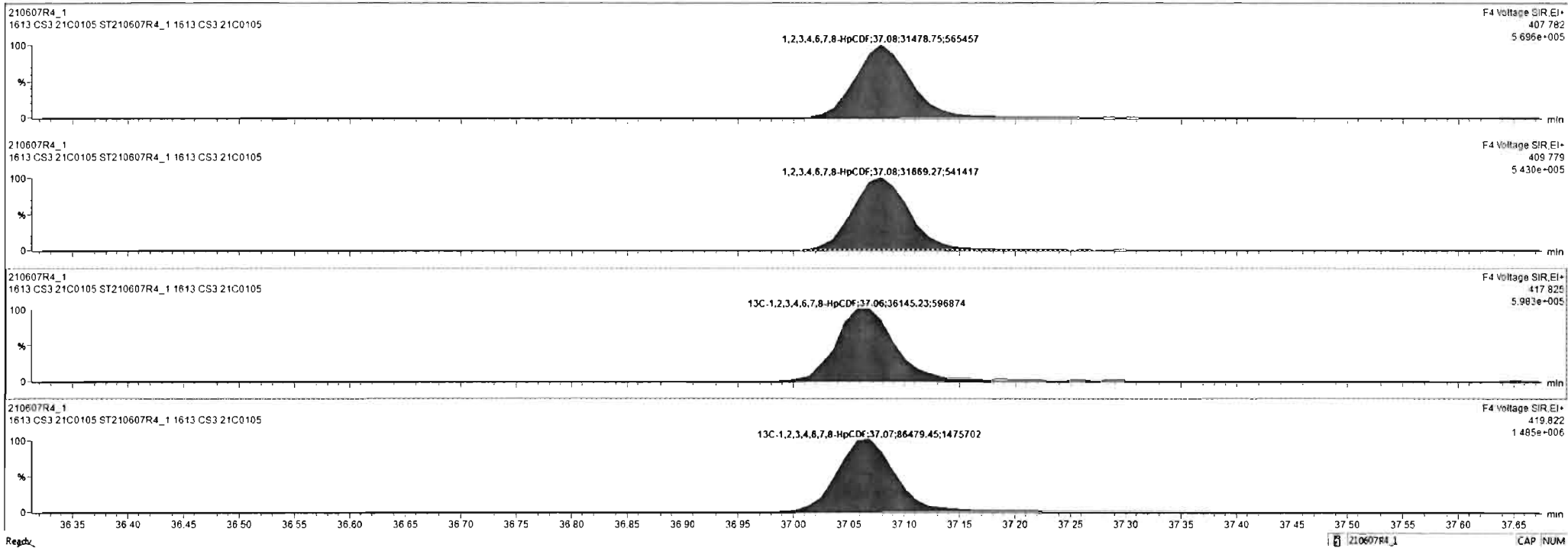
1,2,3,4,7,8-HxCDF

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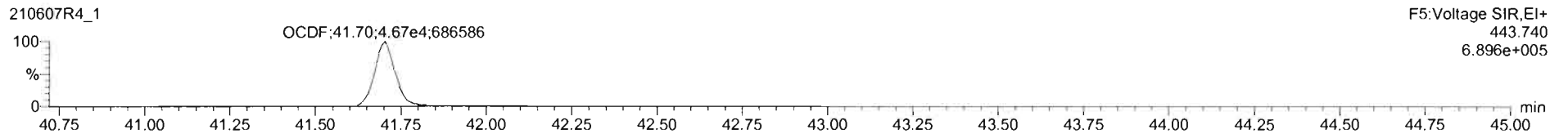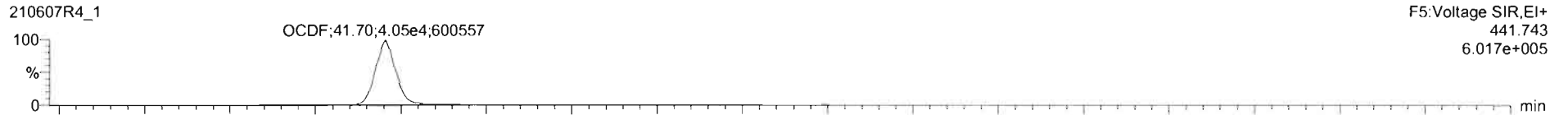

DPE3

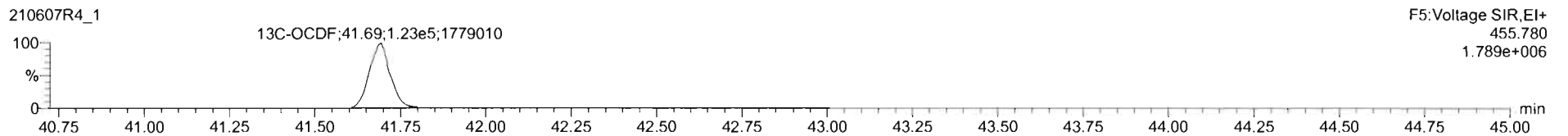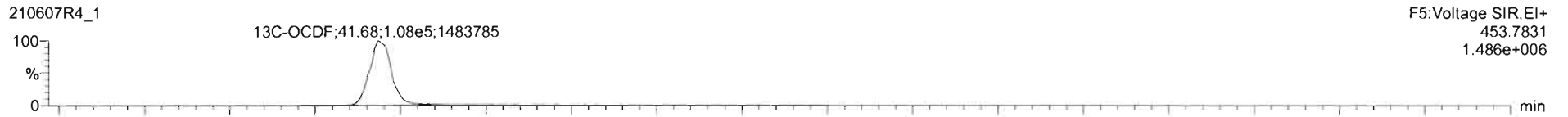Dataset: U:\VG12.PRO\Results\210607R4\210607R4_1.qld

Last Altered: Tuesday, June 08, 2021 10:27:41 Pacific Daylight Time
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Name: 210607R4_1, Date: 07-Jun-2021, Time: 13:47:05, ID: ST210607R4_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

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

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

DPE4

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210607R4_1 - ST210607R4_1 1613 CS3 21C0105 - 1613 CS3 21C0105

#	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	2.49e4	2.83e5	0.77	0.72	NO	0.9291	26.70	26.70	NO	1.001	1.001	9.48	94.8	NO
2	2	1,2,3,7,8-PeCDD	8.13e4	1.99e5	0.63	0.59	NO	0.8257	31.15	31.14	NO	1.001	1.000	49.6	99.2	NO
3	3	1,2,3,4,7,8-HxCDD	6.59e4	1.35e5	1.24	1.27	NO	0.9725	34.49	34.48	NO	1.001	1.001	50.3	101	NO
4	4	1,2,3,6,7,8-HxCDD	6.69e4	1.55e5	1.24	1.23	NO	0.8771	34.61	34.61	NO	1.001	1.001	49.3	98.6	NO
5	5	1,2,3,7,8,9-HxCDD	6.61e4	1.52e5	1.24	1.29	NO	0.8739	34.90	34.90	NO	1.000	1.000	49.9	99.7	NO
6	6	1,2,3,4,6,7,8-HpCDD	4.74e4	1.06e5	1.04	1.08	NO	0.8987	38.30	38.30	NO	1.000	1.001	49.7	99.3	NO
7	7	OCDD	7.22e4	1.71e5	0.89	0.68	NO	0.8524	41.36	41.37	NO	1.000	1.001	99.0	99.0	NO
8	8	2,3,7,8-TCDF	3.01e4	4.35e5	0.77	0.73	NO	0.7466	26.05	26.06	NO	1.000	1.001	9.26	92.6	NO
9	9	1,2,3,7,8-PeCDF	1.33e5	2.79e5	1.55	1.61	NO	0.8771	29.93	29.94	NO	1.000	1.000	54.2	108	NO
10	10	2,3,4,7,8-PeCDF	1.34e5	2.65e5	1.55	1.59	NO	0.9621	30.96	30.95	NO	1.001	1.000	52.7	105	NO
11	11	1,2,3,4,7,8-HxCDF	8.64e4	1.89e5	1.24	1.23	NO	0.9202	33.53	33.54	NO	1.000	1.001	49.8	99.6	NO
12	12	1,2,3,6,7,8-HxCDF	9.27e4	2.00e5	1.24	1.26	NO	0.9363	33.69	33.68	NO	1.001	1.000	49.5	99.0	NO
13	13	2,3,4,6,7,8-HxCDF	8.56e4	1.76e5	1.24	1.22	NO	0.9725	34.38	34.37	NO	1.001	1.000	49.9	99.8	NO
14	14	1,2,3,7,8,9-HxCDF	6.84e4	1.50e5	1.24	1.26	NO	0.9396	35.45	35.45	NO	1.000	1.000	48.5	97.0	NO

210607R4_1
1613 CS3 21C0105 ST210607R4_1 1613 CS3 21C0105
F4 Voltage SIR,EI+
407.782
5.696e+005
1,2,3,4,6,7,8-HpCDF;37.08;31478.75;565457

210607R4_1
1613 CS3 21C0105 ST210607R4_1 1613 CS3 21C0105
F4 Voltage SIR,EI+
409.779
5.430e+005
1,2,3,4,6,7,8-HpCDF;37.08;31869.27;541417

210607R4_1
1613 CS3 21C0105 ST210607R4_1 1613 CS3 21C0105
F4 Voltage SIR,EI+
417.825
5.983e+005
13C-1,2,3,4,6,7,8-HpCDF;37.06;36145.23;596874

210607R4_1
1613 CS3 21C0105 ST210607R4_1 1613 CS3 21C0105
F4 Voltage SIR,EI+
419.822
1.485e+006
13C-1,2,3,4,6,7,8-HpCDF;37.07;86479.45;1475702

Ready   210607R4_1   CAP NUM

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Name: 210607R4_1, Date: 07-Jun-2021, Time: 13:47:05, ID: ST210607R4_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105
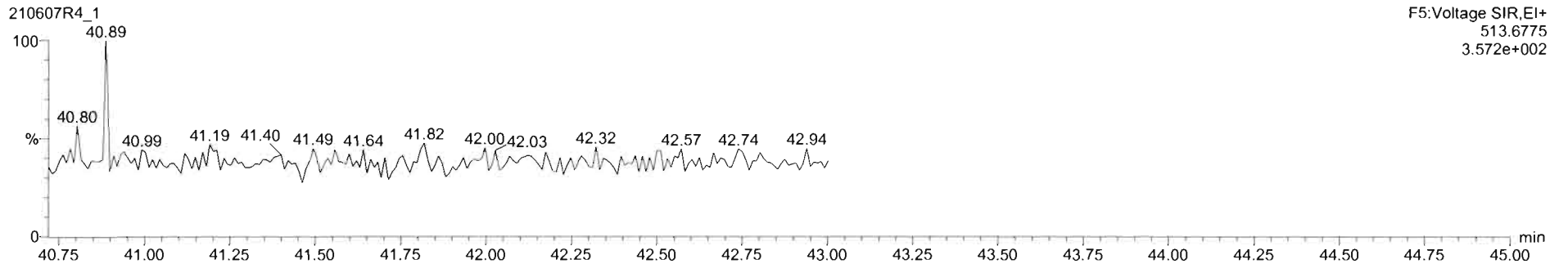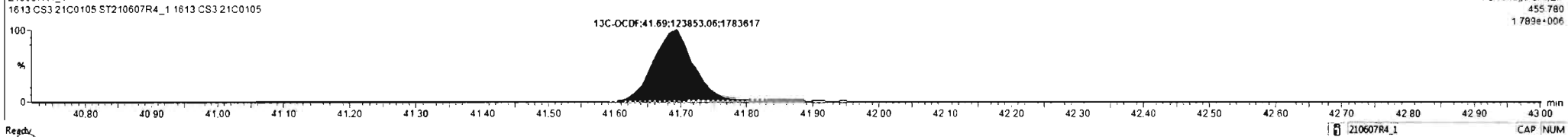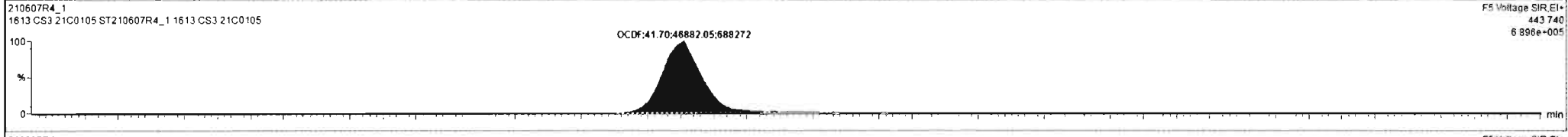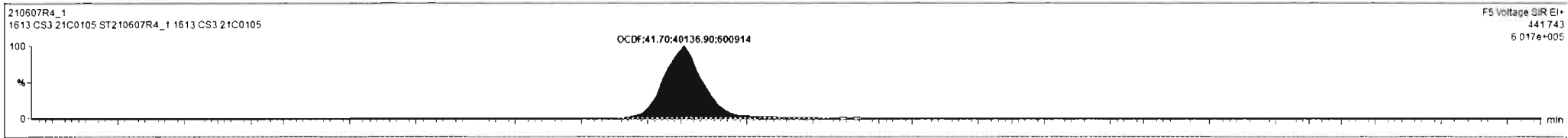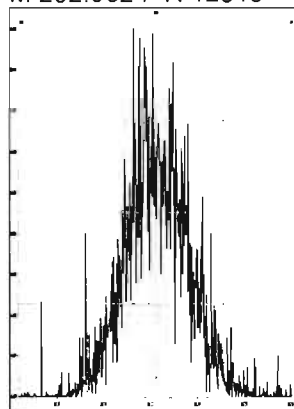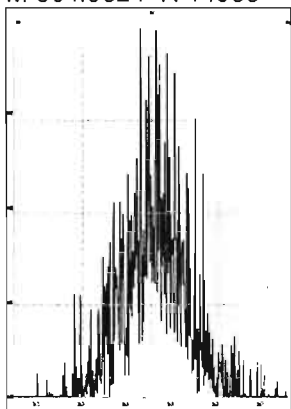
OCDF

13C-OCDF

DPE5

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210607R4_1 - ST210607R4_1 1613 CS3 21C0105 - 1613 CS3 21C0105

#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
16	16 1,2,3,4,7,8,9-HpCDF	5.25e4	9.91e4	1.04	1.03	NO	1.0453	38.95	38.95	NO	1.000	1.000	50.7	101	NO
17	17 OCDF	8.79e4	2.32e5	0.89	0.86	NO	0.7712	41.69	41.70	NO	1.000	1.001	97.2	97.2	NO
18	18 13C-2,3,7,8-TCDD	2.83e5	2.59e5	0.77	0.77	NO	1.1040	26.66	26.67	NO	1.027	1.027	99.0	99.0	NO
19	19 13C-1,2,3,7,8-PeCDD	1.99e5	2.59e5	0.63	0.61	NO	0.8635	31.03	31.12	NO	1.196	1.199	88.9	88.9	NO
20	20 13C-1,2,3,4,7,8-HxCDD	1.35e5	2.04e5	1.24	1.27	NO	0.7461	34.46	34.47	NO	1.014	1.014	88.5	88.5	NO
21	21 13C-1,2,3,6,7,8-HxCDD	1.55e5	2.04e5	1.24	1.30	NO	0.8468	34.58	34.59	NO	1.017	1.018	89.6	89.6	NO
22	22 13C-1,2,3,7,8,9-HxCDD	1.52e5	2.04e5	1.24	1.24	NO	0.8683	34.88	34.88	NO	1.026	1.026	85.6	85.6	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.06e5	2.04e5	1.04	1.05	NO	0.6641	38.23	38.29	NO	1.125	1.126	78.4	78.4	NO
24	24 13C-OCDD	1.71e5	2.04e5	0.89	0.88	NO	0.5607	41.18	41.35	NO	1.211	1.216	150	74.8	NO
25	25 13C-2,3,7,8-TCDF	4.35e5	4.12e5	0.77	0.78	NO	1.0931	26.05	26.05	NO	1.003	1.003	96.6	96.6	NO
26	26 13C-1,2,3,7,8-PeCDF	2.79e5	4.12e5	1.55	1.62	NO	0.8095	29.76	29.93	NO	1.147	1.153	83.7	83.7	NO
27	27 13C-2,3,4,7,8-PeCDF	2.65e5	4.12e5	1.55	1.61	NO	0.8031	30.73	30.94	NO	1.184	1.192	80.2	80.2	NO
28	28 13C-1,2,3,4,7,8-HxCDF	1.89e5	2.04e5	0.51	0.49	NO	1.0111	33.54	33.52	NO	0.987	0.986	91.4	91.4	NO
29	29 13C-1,2,3,6,7,8-HxCDF	2.03e5	2.04e5	0.51	0.49	NO	1.0734	33.67	33.67	NO	0.990	0.990	91.3	91.3	NO

210607R4_1
1613 CS3 21C0105 ST210607R4_1 1613 CS3 21C0105
F5 Voltage SIR,EI+
441.743
6.017e+005
OCDF;41.70;40136.90;600914

210607R4_1
1613 CS3 21C0105 ST210607R4_1 1613 CS3 21C0105
F5 Voltage SIR,EI+
443.740
6.896e+005
OCDF;41.70;46882.05;688272

210607R4_1
1613 CS3 21C0105 ST210607R4_1 1613 CS3 21C0105
F5 Voltage SIR,EI+
453.7831
1.486e+006
13C-OCDF;41.68;108353.89;1483785

210607R4_1
1613 CS3 21C0105 ST210607R4_1 1613 CS3 21C0105
F5 Voltage SIR,EI+
455.780
1.789e+006
13C-OCDF;41.69;123853.06;1783617

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PFK1 — 210607R4_1 — F1:Voltage SIR,EI+ 318.97924 — 2.079e+006

PFK2 — 210607R4_1 — F2:Voltage SIR,EI+ 366.9792 — 7.528e+004

PFK3 — 210607R4_1 — F3:Voltage SIR,EI+ 380.9760 — 1.864e+006

PFK4 — 210607R4_1 — F4:Voltage SIR,EI+ 430.9728 — 7.917e+005

PFK5 — 210607R4_1 — F5:Voltage SIR,EI+ 454.9728 — 1.545e+005
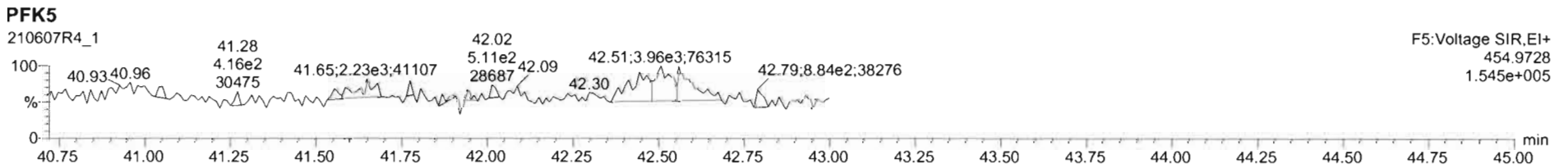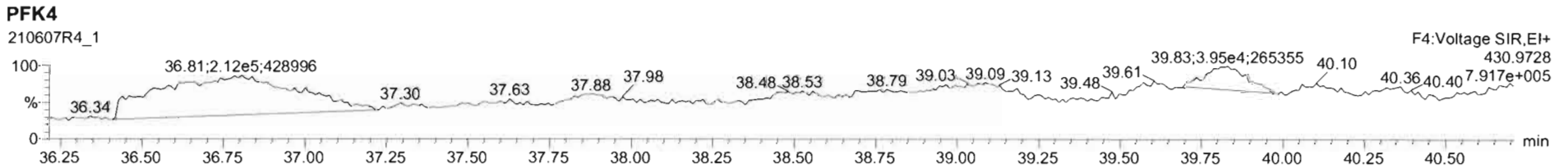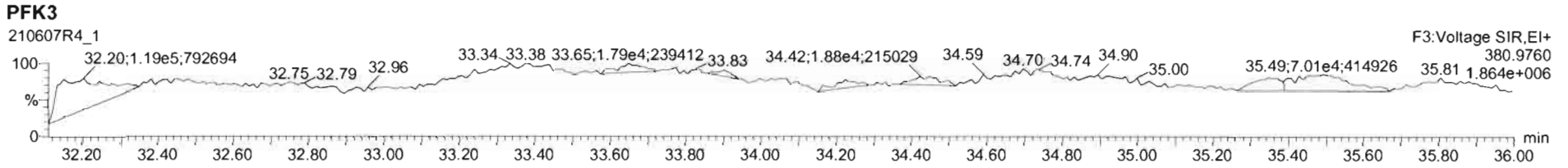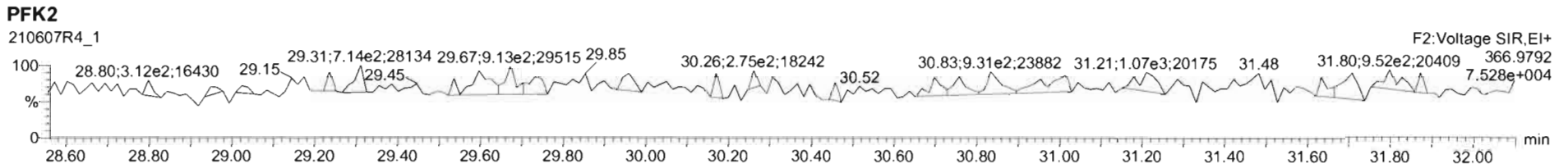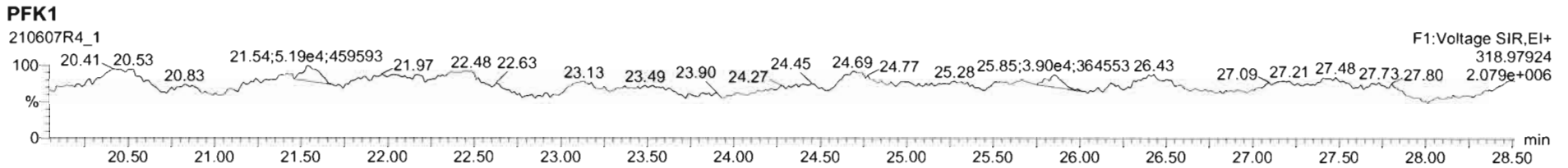
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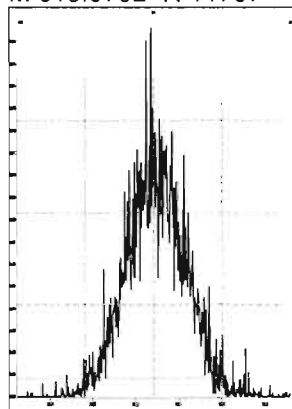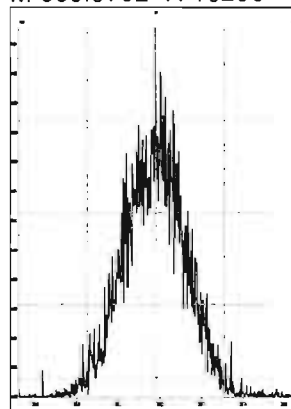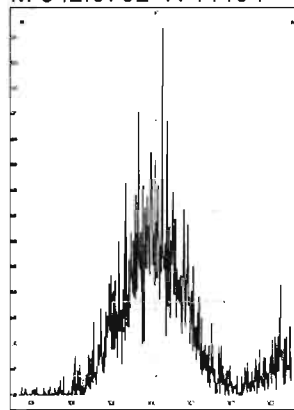
M 342.9792 R 11194   M 354.9792 R 14006   M 366.9792 R 20661   M 380.9760 R 11185
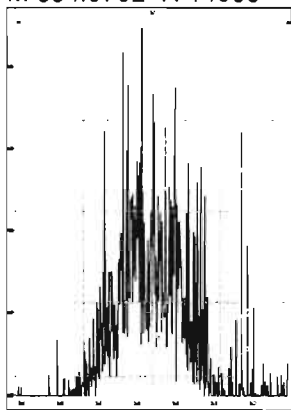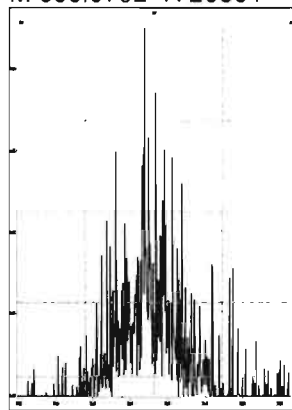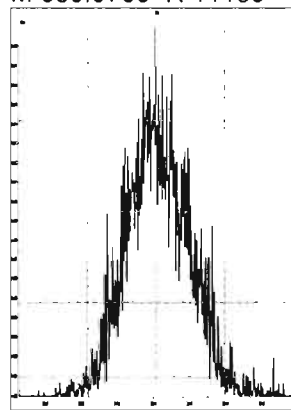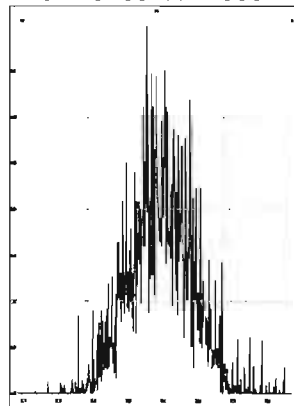
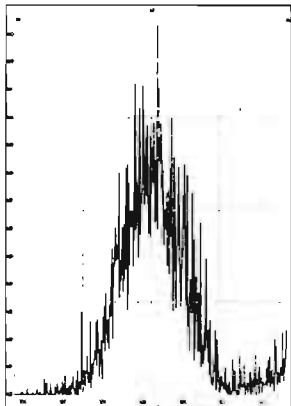M 392.9760 R 11990   M 404.9760 R 21254   M 416.9760 R 32986   M 318.9792 R 10504
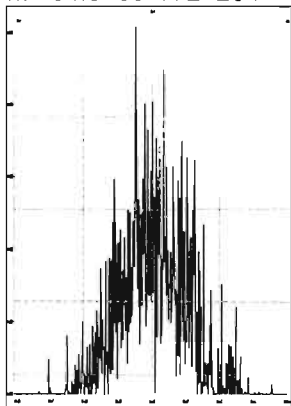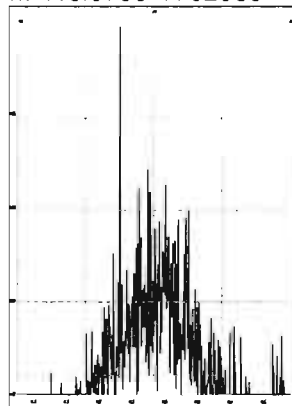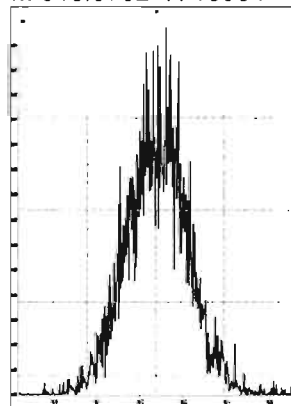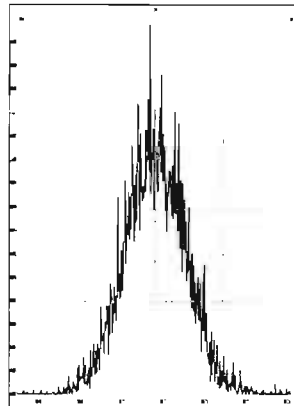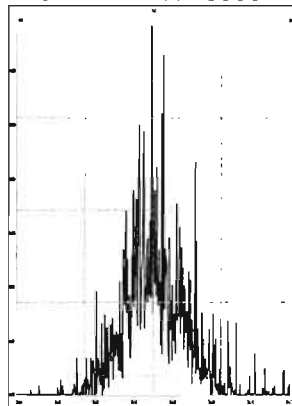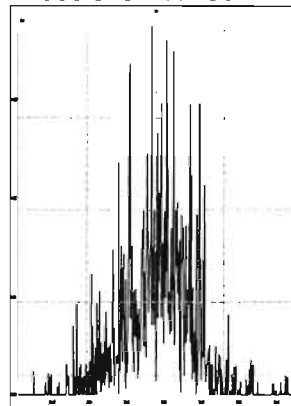
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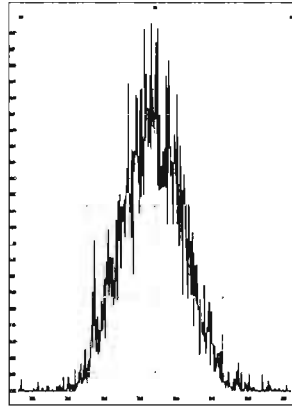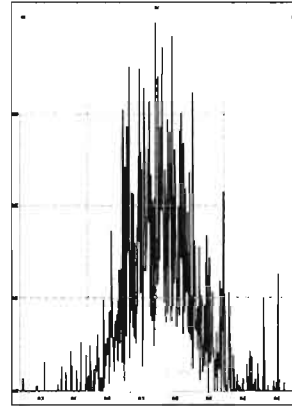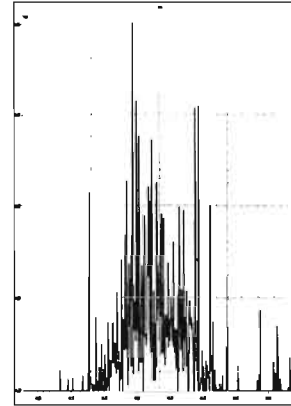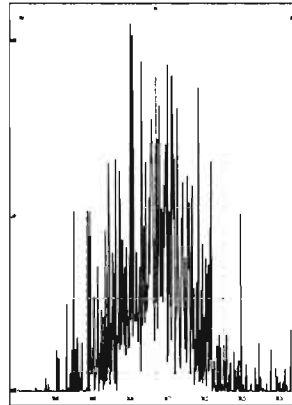
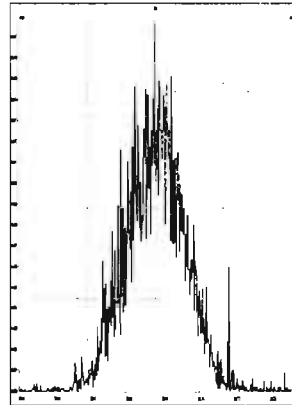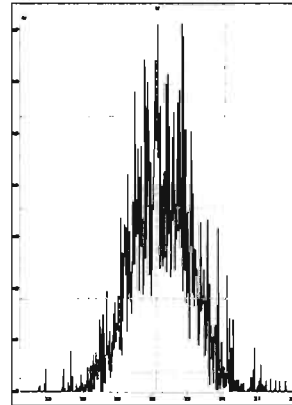M 380.9760 R 10438   M 392.9760 R 16361   M 404.9760 R 15745   M 416.9760 R 74188
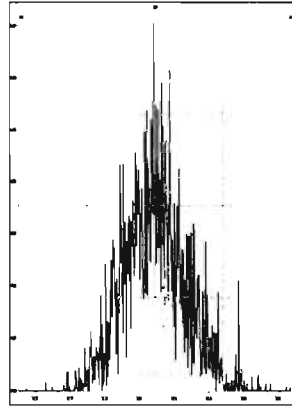
M 366.9792 R 15745   M 380.9760 R 11769   M 392.9760 R 12600   M 404.9760 R 17374
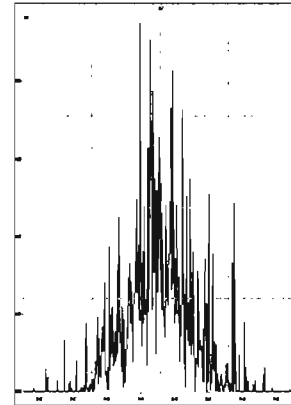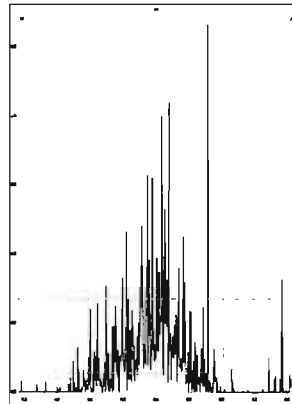
M 416.9760 R 28052   M 430.9728 R 11694   M 442.9728 R 15979   M 454.9728 R 14442
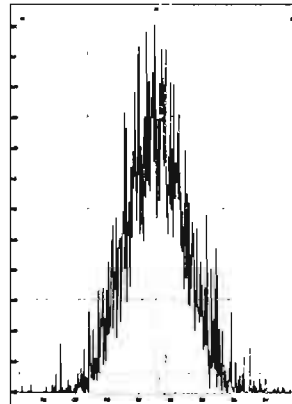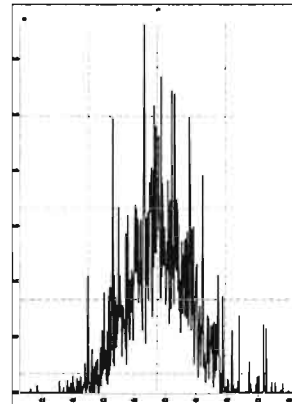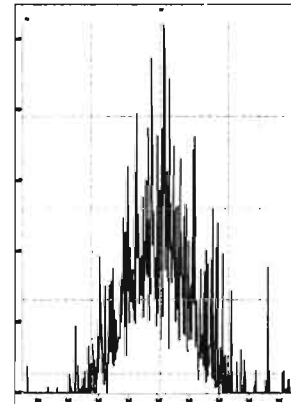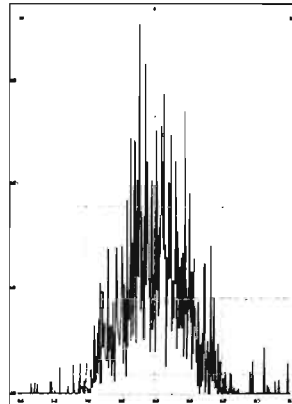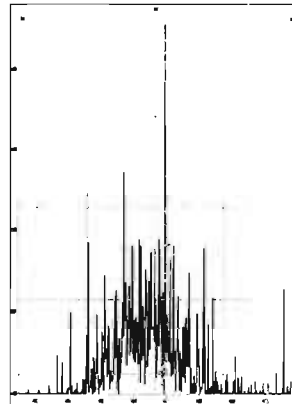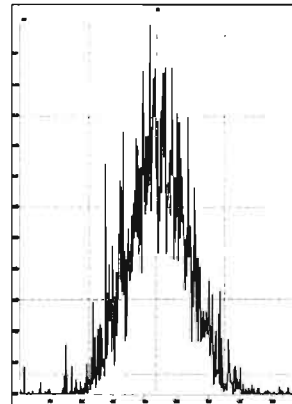
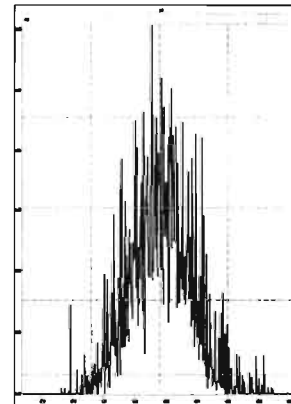M 404.9760 R 15803   M 416.9760 R 22776   M 430.9728 R 11252   M 442.9728 R 13635
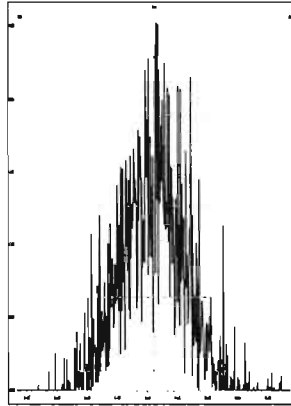
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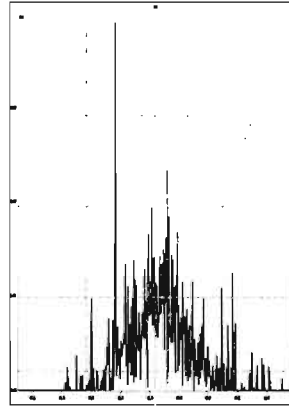
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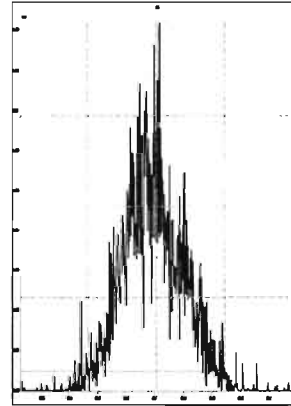
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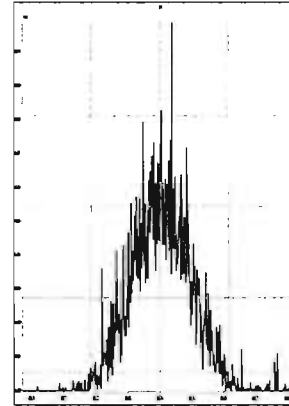
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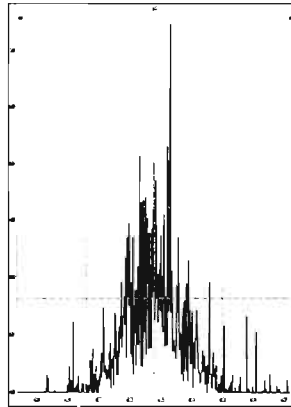
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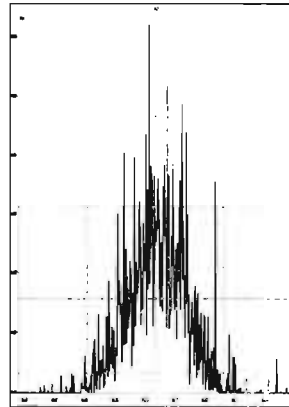
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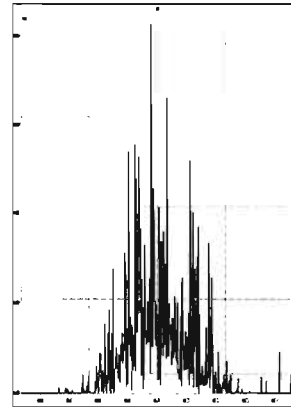
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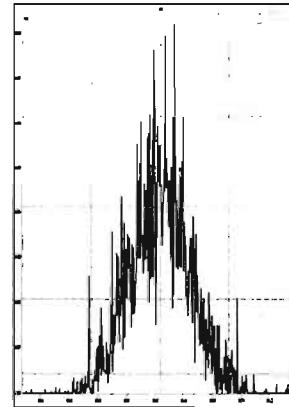
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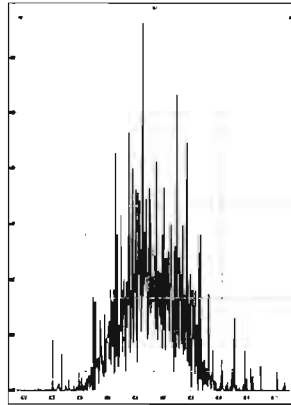
M 504.9696 R 13626
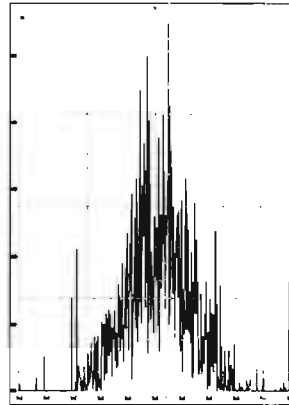
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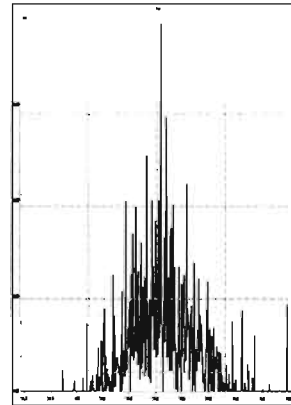
INITIAL CALIBRATION

Quantify Compound Summary Report   MassLynx 4.1 SCN815
Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\210414R1\210414R1_CRV.qld

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HN 04/15/21
DF 04/15/21

Method: U:\VG12.PRO\MethDB\1613rrt-04-06-21.mdb 06 Apr 2021 08:35:23
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Compound name: 2,3,7,8-TCDD
Response Factor: 0.92906
RRF SD: 0.0829232, Relative SD: 8.9255
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	210414R1_1	0.250	0.69	NO	26.94	1.001	2.81e3	1.31e6	0.231	-7.8	0.857	MM
2	210414R1_2	0.500	0.82	NO	26.96	1.001	6.87e3	1.46e6	0.507	1.4	0.942	MM
3	210414R1_3	2.00	0.76	NO	26.94	1.001	2.40e4	1.48e6	1.75	-12.6	0.812	bb
4	210414R1_4	40.0	0.77	NO	26.93	1.001	6.51e5	1.59e6	43.9	9.8	1.02	bb
5	210414R1_5	300	0.77	NO	26.94	1.001	4.47e6	1.47e6	327	8.9	1.01	bb
6	210414R1_6	10.0	0.78	NO	26.94	1.000	1.54e5	1.66e6	10.0	0.2	0.931	bb

Compound name: 1,2,3,7,8-PeCDD
Response Factor: 0.825708
RRF SD: 0.0482142, Relative SD: 5.83913
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	210414R1_1	1.25	0.68	NO	31.27	1.001	1.03e4	1.03e6	1.22	-2.7	0.804	bb
2	210414R1_2	2.50	0.60	NO	31.27	1.000	2.37e4	1.16e6	2.48	-0.9	0.818	bb
3	210414R1_3	10.0	0.63	NO	31.27	1.000	8.36e4	1.11e6	9.09	-9.1	0.750	bb
4	210414R1_4	200	0.62	NO	31.26	1.000	2.19e6	1.24e6	215	7.4	0.887	bb
5	210414R1_5	1500	0.62	NO	31.27	1.000	1.58e7	1.22e6	1570	5.0	0.867	bb
6	210414R1_6	50.0	0.61	NO	31.27	1.000	5.16e5	1.25e6	50.1	0.3	0.828	bb

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Dataset: U:\VG12.PRO\Results\210414R1\210414R1_CRV.qld

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Compound name: 1,2,3,4,7,8-HxCDD
Response Factor: 0.972464
RRF SD: 0.0862714, Relative SD: 8.87143
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	210414R1_1	1.25	1.23	NO	34.61	1.001	7.39e3	6.55e5	1.16	-7.2	0.903	bd
2	210414R1_2	2.50	1.23	NO	34.62	1.000	1.65e4	7.11e5	2.38	-4.7	0.927	bd
3	210414R1_3	10.0	1.24	NO	34.62	1.001	6.42e4	7.40e5	8.92	-10.8	0.867	bd
4	210414R1_4	200	1.23	NO	34.61	1.001	1.78e6	8.23e5	223	11.4	1.08	bd
5	210414R1_5	1500	1.23	NO	34.62	1.001	1.34e7	8.49e5	1620	7.9	1.05	bd
6	210414R1_6	50.0	1.24	NO	34.62	1.000	4.13e5	8.23e5	51.7	3.3	1.00	bd

Compound name: 1,2,3,6,7,8-HxCDD
Response Factor: 0.877085
RRF SD: 0.0559574, Relative SD: 6.37993
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	210414R1_1	1.25	1.13	NO	34.73	1.000	8.05e3	7.49e5	1.23	-2.0	0.860	MM
2	210414R1_2	2.50	1.24	NO	34.76	1.001	1.71e4	8.03e5	2.42	-3.0	0.850	db
3	210414R1_3	10.0	1.23	NO	34.74	1.000	6.53e4	8.25e5	9.02	-9.8	0.791	db
4	210414R1_4	200	1.23	NO	34.73	1.000	1.79e6	9.47e5	216	8.0	0.947	db
5	210414R1_5	1500	1.23	NO	34.74	1.000	1.34e7	9.70e5	1580	5.2	0.923	db
6	210414R1_6	50.0	1.24	NO	34.76	1.001	4.13e5	9.27e5	50.8	1.7	0.892	db

Compound name: 1,2,3,7,8,9-HxCDD
Response Factor: 0.873924
RRF SD: 0.0774391, Relative SD: 8.86108
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	210414R1_1	1.25	1.22	NO	35.03	1.000	7.66e3	7.49e5	1.17	-6.5	0.818	MM
2	210414R1_2	2.50	1.29	NO	35.04	1.000	1.84e4	8.90e5	2.37	-5.3	0.828	bb

Dataset: U:\VG12.PRO\Results\210414R1\210414R1_CRV.qld

Last Altered: Thursday, April 15, 2021 09:26:26 Pacific Daylight Time
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Compound name: 1,2,3,7,8,9-HxCDD

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	210414R1_3	10.0	1.28	NO	35.04	1.000	6.56e4	8.45e5	8.89	-11.1	0.777	bb
4	210414R1_4	200	1.23	NO	35.03	1.001	1.84e6	9.50e5	222	11.1	0.971	bb
5	210414R1_5	1500	1.21	NO	35.04	1.001	1.39e7	9.79e5	1620	8.0	0.943	bb
6	210414R1_6	50.0	1.24	NO	35.05	1.001	4.26e5	9.39e5	51.9	3.8	0.907	bb

Compound name: 1,2,3,4,6,7,8-HpCDD
Response Factor: 0.898742
RRF SD: 0.0677039, Relative SD: 7.53319
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	210414R1_1	1.25	1.02	NO	38.31	1.001	6.55e3	6.08e5	1.20	-4.2	0.861	MM
2	210414R1_2	2.50	1.02	NO	38.32	1.001	1.72e4	7.70e5	2.48	-0.8	0.891	bb
3	210414R1_3	10.0	1.00	NO	38.31	1.000	4.86e4	6.13e5	8.82	-11.8	0.793	bb
4	210414R1_4	200	1.02	NO	38.29	1.000	1.34e6	6.81e5	218	9.2	0.981	bb
5	210414R1_5	1500	1.02	NO	38.31	1.000	1.03e7	7.20e5	1600	6.5	0.957	bb
6	210414R1_6	50.0	1.02	NO	38.31	1.000	3.16e5	6.96e5	50.6	1.1	0.909	bb

Compound name: OCDD
Response Factor: 0.852404
RRF SD: 0.0637924, Relative SD: 7.48382
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	210414R1_1	2.50	0.86	NO	41.31	1.000	1.11e4	1.09e6	2.38	-4.9	0.811	bb
2	210414R1_2	5.00	0.88	NO	41.33	1.000	2.60e4	1.27e6	4.79	-4.2	0.816	bb
3	210414R1_3	20.0	0.88	NO	41.33	1.000	7.75e4	1.01e6	18.0	-10.0	0.767	MM
4	210414R1_4	400	0.88	NO	41.31	1.000	2.13e6	1.15e6	436	9.1	0.930	bb
5	210414R1_5	3000	0.88	NO	41.32	1.000	1.66e7	1.21e6	3200	6.7	0.909	bb
6	210414R1_6	100	0.88	NO	41.33	1.000	5.13e5	1.16e6	103	3.4	0.881	bb

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Compound name: 2,3,7,8-TCDF
Response Factor: 0.746581
RRF SD: 0.0693432, Relative SD: 9.2881
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	210414R1_1	0.250	0.79	NO	26.35	1.001	3.87e3	2.17e6	0.239	-4.3	0.715	MM
2	210414R1_2	0.500	0.71	NO	26.35	1.001	7.34e3	2.13e6	0.461	-7.9	0.688	MM
3	210414R1_3	2.00	0.79	NO	26.35	1.001	2.64e4	2.00e6	1.77	-11.5	0.661	bb
4	210414R1_4	40.0	0.75	NO	26.34	1.001	7.03e5	2.14e6	44.0	10.0	0.821	bb
5	210414R1_5	300	0.76	NO	26.34	1.001	4.78e6	1.93e6	331	10.4	0.824	bb
6	210414R1_6	10.0	0.74	NO	26.34	1.001	1.75e5	2.27e6	10.3	3.2	0.771	db

Compound name: 1,2,3,7,8-PeCDF
Response Factor: 0.877118
RRF SD: 0.0717768, Relative SD: 8.18326
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	210414R1_1	1.25	1.52	NO	30.10	1.000	1.34e4	1.36e6	1.13	-9.9	0.790	bb
2	210414R1_2	2.50	1.55	NO	30.11	1.000	3.37e4	1.58e6	2.44	-2.6	0.855	MM
3	210414R1_3	10.0	1.62	NO	30.11	1.000	1.20e5	1.49e6	9.20	-8.0	0.807	bb
4	210414R1_4	200	1.54	NO	30.10	1.000	3.16e6	1.64e6	220	10.2	0.967	bb
5	210414R1_5	1500	1.56	NO	30.10	1.000	2.26e7	1.60e6	1610	7.2	0.940	bb
6	210414R1_6	50.0	1.56	NO	30.11	1.000	7.73e5	1.71e6	51.5	3.0	0.904	bb

Compound name: 2,3,4,7,8-PeCDF
Response Factor: 0.962056
RRF SD: 0.0674767, Relative SD: 7.0138
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	210414R1_1	1.25	1.48	NO	31.09	1.000	1.69e4	1.46e6	1.20	-3.8	0.926	MM
2	210414R1_2	2.50	1.58	NO	31.11	1.000	3.69e4	1.61e6	2.38	-4.7	0.917	bd

Quantify Compound Summary Report   MassLynx 4.1 SCN815
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Dataset: U:\VG12.PRO\Results\210414R1\210414R1_CRV.qld

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

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	210414R1_3	10.0	1.52	NO	31.11	1.000	1.29e5	1.48e6	9.10	-9.0	0.876	bb
4	210414R1_4	200	1.55	NO	31.09	1.000	3.30e6	1.58e6	218	8.8	1.05	bb
5	210414R1_5	1500	1.54	NO	31.09	1.000	2.35e7	1.52e6	1600	6.9	1.03	bb
6	210414R1_6	50.0	1.54	NO	31.11	1.000	8.04e5	1.64e6	50.8	1.7	0.978	bb

Compound name: 1,2,3,4,7,8-HxCDF
Response Factor: 0.92023
RRF SD: 0.0757729, Relative SD: 8.23412
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	210414R1_1	1.25	1.17	NO	33.67	1.000	1.13e4	1.06e6	1.16	-7.6	0.850	bd
2	210414R1_2	2.50	1.18	NO	33.69	1.001	2.33e4	1.06e6	2.38	-4.7	0.877	bd
3	210414R1_3	10.0	1.23	NO	33.69	1.001	7.99e4	9.58e5	9.06	-9.4	0.834	bd
4	210414R1_4	200	1.22	NO	33.67	1.000	2.12e6	1.05e6	219	9.6	1.01	bd
5	210414R1_5	1500	1.22	NO	33.68	1.000	1.52e7	1.02e6	1620	7.8	0.992	bd
6	210414R1_6	50.0	1.22	NO	33.69	1.000	5.12e5	1.07e6	52.2	4.3	0.960	bd

Compound name: 1,2,3,6,7,8-HxCDF
Response Factor: 0.936295
RRF SD: 0.0726577, Relative SD: 7.76013
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	210414R1_1	1.25	1.25	NO	33.81	1.001	1.19e4	1.11e6	1.15	-8.2	0.859	db
2	210414R1_2	2.50	1.21	NO	33.82	1.000	2.49e4	1.10e6	2.41	-3.5	0.904	db
3	210414R1_3	10.0	1.22	NO	33.82	1.000	8.72e4	1.01e6	9.21	-7.9	0.862	db
4	210414R1_4	200	1.22	NO	33.81	1.000	2.31e6	1.12e6	220	10.2	1.03	db
5	210414R1_5	1500	1.21	NO	33.82	1.000	1.70e7	1.13e6	1610	7.1	1.00	db
6	210414R1_6	50.0	1.21	NO	33.83	1.001	5.45e5	1.14e6	51.2	2.3	0.958	db

Quantify Compound Summary Report   **MassLynx 4.1 SCN815**
Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\210414R1\210414R1_CRV.qld

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Compound name: 2,3,4,6,7,8-HxCDF
Response Factor: 0.972549
RRF SD: 0.0818215, Relative SD: 8.4131
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	210414R1_1	1.25	1.22	NO	34.50	1.001	9.59e3	8.62e5	1.14	-8.5	0.890	MM
2	210414R1_2	2.50	1.25	NO	34.52	1.001	2.14e4	9.20e5	2.39	-4.5	0.928	bb
3	210414R1_3	10.0	1.23	NO	34.51	1.000	7.85e4	8.85e5	9.11	-8.9	0.886	bb
4	210414R1_4	200	1.21	NO	34.50	1.000	2.09e6	9.78e5	219	9.7	1.07	bb
5	210414R1_5	1500	1.21	NO	34.51	1.000	1.54e7	9.70e5	1630	8.6	1.06	bb
6	210414R1_6	50.0	1.22	NO	34.52	1.001	4.98e5	9.88e5	51.8	3.7	1.01	bb

Compound name: 1,2,3,7,8,9-HxCDF
Response Factor: 0.939556
RRF SD: 0.0783771, Relative SD: 8.34193
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	210414R1_1	1.25	1.15	NO	35.59	1.000	9.36e3	8.35e5	1.19	-4.6	0.896	MM
2	210414R1_2	2.50	1.16	NO	35.61	1.001	1.85e4	8.23e5	2.39	-4.3	0.899	bb
3	210414R1_3	10.0	1.23	NO	35.60	1.000	6.47e4	7.82e5	8.81	-11.9	0.828	bb
4	210414R1_4	200	1.22	NO	35.59	1.000	1.79e6	8.67e5	220	9.9	1.03	bb
5	210414R1_5	1500	1.23	NO	35.60	1.000	1.35e7	8.86e5	1620	7.7	1.01	bb
6	210414R1_6	50.0	1.24	NO	35.61	1.001	4.40e5	9.08e5	51.6	3.2	0.969	bb

Compound name: 1,2,3,4,6,7,8-HpCDF
Response Factor: 1.04807
RRF SD: 0.0873368, Relative SD: 8.33314
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	210414R1_1	1.25	1.02	NO	37.17	1.000	7.31e3	6.01e5	1.16	-7.1	0.973	MM
2	210414R1_2	2.50	1.03	NO	37.18	1.000	1.79e4	7.19e5	2.37	-5.1	0.995	MM

Quantify Compound Summary Report   **MassLynx 4.1 SCN815**

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

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	210414R1_3	10.0	1.04	NO	37.18	1.001	6.00e4	6.30e5	9.09	-9.1	0.953	bb
4	210414R1_4	200	1.01	NO	37.17	1.001	1.61e6	6.93e5	222	10.9	1.16	bb
5	210414R1_5	1500	1.02	NO	37.18	1.001	1.21e7	7.15e5	1620	8.0	1.13	bb
6	210414R1_6	50.0	1.01	NO	37.18	1.000	3.83e5	7.13e5	51.2	2.4	1.07	bb

Compound name: 1,2,3,4,7,8,9-HpCDF
Response Factor: 1.04534
RRF SD: 0.0878605, Relative SD: 8.40498
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	210414R1_1	1.25	0.92	NO	38.95	1.000	6.49e3	5.32e5	1.17	-6.6	0.976	bb
2	210414R1_2	2.50	1.01	NO	38.98	1.000	1.62e4	6.67e5	2.32	-7.0	0.972	bb
3	210414R1_3	10.0	0.98	NO	38.98	1.001	4.93e4	5.16e5	9.15	-8.5	0.956	bb
4	210414R1_4	200	1.01	NO	38.97	1.000	1.34e6	5.80e5	222	10.8	1.16	bb
5	210414R1_5	1500	1.01	NO	38.98	1.001	1.01e7	6.02e5	1610	7.4	1.12	bb
6	210414R1_6	50.0	1.01	NO	38.98	1.000	3.18e5	5.85e5	52.0	3.9	1.09	bb

Compound name: OCDF
Response Factor: 0.771237
RRF SD: 0.061207, Relative SD: 7.93621
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	210414R1_1	2.50	0.89	NO	41.65	1.000	1.23e4	1.36e6	2.34	-6.2	0.723	MM
2	210414R1_2	5.00	0.88	NO	41.67	1.000	2.75e4	1.47e6	4.85	-3.0	0.748	bb
3	210414R1_3	20.0	0.88	NO	41.67	1.000	8.08e4	1.17e6	17.9	-10.7	0.689	bb
4	210414R1_4	400	0.89	NO	41.65	1.000	2.29e6	1.36e6	438	9.6	0.845	bb
5	210414R1_5	3000	0.89	NO	41.66	1.000	1.76e7	1.42e6	3210	7.0	0.826	bb
6	210414R1_6	100	0.89	NO	41.67	1.000	5.44e5	1.37e6	103	3.3	0.796	bb

Quantify Compound Summary Report   MassLynx 4.1 SCN815
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Compound name: 13C-2,3,7,8-TCDD
Response Factor: 1.10397
RRF SD: 0.0930337, Relative SD: 8.42721
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	210414R1_1	100	0.78	NO	26.91	1.026	1.31e6	1.37e6	86.6	-13.4	0.956	bb
2	210414R1_2	100	0.77	NO	26.93	1.026	1.46e6	1.38e6	95.7	-4.3	1.06	bb
3	210414R1_3	100	0.78	NO	26.93	1.026	1.48e6	1.33e6	101	1.1	1.12	bb
4	210414R1_4	100	0.77	NO	26.91	1.026	1.59e6	1.40e6	103	3.2	1.14	bb
5	210414R1_5	100	0.77	NO	26.91	1.026	1.47e6	1.19e6	112	12.0	1.24	bb
6	210414R1_6	100	0.77	NO	26.93	1.026	1.66e6	1.48e6	101	1.4	1.12	bb

Compound name: 13C-1,2,3,7,8-PeCDD
Response Factor: 0.863511
RRF SD: 0.0902578, Relative SD: 10.4524
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	210414R1_1	100	0.64	NO	31.24	1.191	1.03e6	1.37e6	86.8	-13.2	0.749	bb
2	210414R1_2	100	0.63	NO	31.26	1.191	1.16e6	1.38e6	97.3	-2.7	0.840	bb
3	210414R1_3	100	0.62	NO	31.26	1.191	1.11e6	1.33e6	97.3	-2.7	0.840	bb
4	210414R1_4	100	0.63	NO	31.24	1.192	1.24e6	1.40e6	102	2.4	0.884	bb
5	210414R1_5	100	0.63	NO	31.26	1.192	1.22e6	1.19e6	119	18.6	1.02	bb
6	210414R1_6	100	0.62	NO	31.26	1.191	1.25e6	1.48e6	97.6	-2.4	0.843	bb

Compound name: 13C-1,2,3,4,7,8-HxCDD
Response Factor: 0.746138
RRF SD: 0.0651061, Relative SD: 8.72575
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	210414R1_1	100	1.28	NO	34.59	1.013	6.55e5	9.77e5	89.8	-10.2	0.670	bd
2	210414R1_2	100	1.28	NO	34.61	1.014	7.11e5	1.01e6	94.8	-5.2	0.707	bd

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Compound name: 13C-1,2,3,4,7,8-HxCDD

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	210414R1_3	100	1.27	NO	34.60	1.013	7.40e5	1.01e6	98.4	-1.6	0.734	bd
4	210414R1_4	100	1.27	NO	34.59	1.013	8.23e5	1.08e6	102	1.7	0.759	bd
5	210414R1_5	100	1.27	NO	34.60	1.013	8.49e5	9.84e5	116	15.6	0.863	bd
6	210414R1_6	100	1.27	NO	34.61	1.014	8.23e5	1.11e6	99.7	-0.3	0.744	bd

Compound name: 13C-1,2,3,6,7,8-HxCDD
Response Factor: 0.846795
RRF SD: 0.0772663, Relative SD: 9.12455
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	210414R1_1	100	1.29	NO	34.72	1.018	7.49e5	9.77e5	90.5	-9.5	0.766	db
2	210414R1_2	100	1.26	NO	34.73	1.018	8.03e5	1.01e6	94.3	-5.7	0.799	db
3	210414R1_3	100	1.26	NO	34.73	1.018	8.25e5	1.01e6	96.6	-3.4	0.818	db
4	210414R1_4	100	1.25	NO	34.72	1.018	9.47e5	1.08e6	103	3.1	0.873	db
5	210414R1_5	100	1.26	NO	34.73	1.018	9.70e5	9.84e5	116	16.5	0.986	db
6	210414R1_6	100	1.25	NO	34.73	1.018	9.27e5	1.11e6	99.0	-1.0	0.839	db

Compound name: 13C-1,2,3,7,8,9-HxCDD
Response Factor: 0.868278
RRF SD: 0.0751126, Relative SD: 8.65075
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	210414R1_1	100	1.26	NO	35.02	1.026	7.49e5	9.77e5	88.3	-11.7	0.767	MM
2	210414R1_2	100	1.26	NO	35.03	1.026	8.90e5	1.01e6	102	2.0	0.886	bb
3	210414R1_3	100	1.27	NO	35.03	1.026	8.45e5	1.01e6	96.4	-3.6	0.837	bb
4	210414R1_4	100	1.25	NO	35.01	1.026	9.50e5	1.08e6	101	0.8	0.876	bb
5	210414R1_5	100	1.24	NO	35.02	1.026	9.79e5	9.84e5	115	14.6	0.995	bb
6	210414R1_6	100	1.25	NO	35.03	1.026	9.39e5	1.11e6	97.8	-2.2	0.849	bb

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Compound name: 13C-1,2,3,4,6,7,8-HpCDD
Response Factor: 0.664147
RRF SD: 0.0670773, Relative SD: 10.0998
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	210414R1_1	100	1.04	NO	38.28	1.122	6.08e5	9.77e5	93.7	-6.3	0.622	MM
2	210414R1_2	100	1.05	NO	38.29	1.122	7.70e5	1.01e6	115	15.4	0.766	bb
3	210414R1_3	100	1.06	NO	38.29	1.122	6.13e5	1.01e6	91.5	-8.5	0.608	bb
4	210414R1_4	100	1.05	NO	38.28	1.122	6.81e5	1.08e6	94.5	-5.5	0.628	bb
5	210414R1_5	100	1.04	NO	38.29	1.122	7.20e5	9.84e5	110	10.2	0.732	bb
6	210414R1_6	100	1.04	NO	38.29	1.122	6.96e5	1.11e6	94.7	-5.3	0.629	bb

Compound name: 13C-OCDD
Response Factor: 0.560713
RRF SD: 0.0533804, Relative SD: 9.52008
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	210414R1_1	200	0.92	NO	41.30	1.210	1.09e6	9.77e5	199	-0.5	0.558	MM
2	210414R1_2	200	0.89	NO	41.32	1.211	1.27e6	1.01e6	226	12.9	0.633	bb
3	210414R1_3	200	0.89	NO	41.31	1.210	1.01e6	1.01e6	179	-10.7	0.501	bb
4	210414R1_4	200	0.88	NO	41.30	1.210	1.15e6	1.08e6	189	-5.7	0.529	bb
5	210414R1_5	200	0.88	NO	41.31	1.210	1.21e6	9.84e5	220	10.1	0.617	bb
6	210414R1_6	200	0.89	NO	41.31	1.210	1.16e6	1.11e6	188	-6.1	0.527	bb

Compound name: 13C-2,3,7,8-TCDF
Response Factor: 1.09311
RRF SD: 0.0632342, Relative SD: 5.78481
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	210414R1_1	100	0.77	NO	26.32	1.003	2.17e6	1.78e6	111	11.3	1.22	bb
2	210414R1_2	100	0.77	NO	26.34	1.004	2.13e6	2.00e6	97.6	-2.4	1.07	bb

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Compound name: 13C-2,3,7,8-TCDF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	210414R1_3	100	0.77	NO	26.32	1.003	2.00e6	1.90e6	96.1	-3.9	1.05	bb
4	210414R1_4	100	0.76	NO	26.31	1.003	2.14e6	2.03e6	96.5	-3.5	1.06	bb
5	210414R1_5	100	0.78	NO	26.32	1.004	1.93e6	1.76e6	101	0.7	1.10	bb
6	210414R1_6	100	0.77	NO	26.32	1.003	2.27e6	2.12e6	97.8	-2.2	1.07	bb

Compound name: 13C-1,2,3,7,8-PeCDF
Response Factor: 0.809493
RRF SD: 0.0523734, Relative SD: 6.4699
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	210414R1_1	100	1.57	NO	30.08	1.147	1.36e6	1.78e6	94.2	-5.8	0.763	bb
2	210414R1_2	100	1.59	NO	30.10	1.147	1.58e6	2.00e6	97.4	-2.6	0.788	bb
3	210414R1_3	100	1.55	NO	30.10	1.147	1.49e6	1.90e6	96.6	-3.4	0.782	bb
4	210414R1_4	100	1.55	NO	30.08	1.147	1.64e6	2.03e6	99.7	-0.3	0.807	bb
5	210414R1_5	100	1.58	NO	30.10	1.148	1.60e6	1.76e6	113	12.5	0.911	bb
6	210414R1_6	100	1.56	NO	30.10	1.147	1.71e6	2.12e6	99.6	-0.4	0.806	bb

Compound name: 13C-2,3,4,7,8-PeCDF
Response Factor: 0.803072
RRF SD: 0.0359789, Relative SD: 4.48016
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	210414R1_1	100	1.59	NO	31.08	1.185	1.46e6	1.78e6	102	2.0	0.819	bb
2	210414R1_2	100	1.59	NO	31.09	1.185	1.61e6	2.00e6	100	0.2	0.804	bb
3	210414R1_3	100	1.55	NO	31.09	1.185	1.48e6	1.90e6	96.6	-3.4	0.776	bb
4	210414R1_4	100	1.58	NO	31.08	1.185	1.58e6	2.03e6	96.9	-3.1	0.778	bb
5	210414R1_5	100	1.57	NO	31.08	1.185	1.52e6	1.76e6	108	7.9	0.867	bb
6	210414R1_6	100	1.55	NO	31.09	1.185	1.64e6	2.12e6	96.5	-3.5	0.775	bb

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Compound name: 13C-1,2,3,4,7,8-HxCDF
Response Factor: 1.01114
RRF SD: 0.0571822, Relative SD: 5.65524
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	210414R1_1	100	0.51	NO	33.65	0.986	1.06e6	9.77e5	108	7.5	1.09	bd
2	210414R1_2	100	0.52	NO	33.67	0.986	1.06e6	1.01e6	105	4.7	1.06	bd
3	210414R1_3	100	0.51	NO	33.67	0.986	9.58e5	1.01e6	93.9	-6.1	0.950	bd
4	210414R1_4	100	0.51	NO	33.65	0.986	1.05e6	1.08e6	95.9	-4.1	0.970	bd
5	210414R1_5	100	0.51	NO	33.67	0.986	1.02e6	9.84e5	103	2.6	1.04	bd
6	210414R1_6	100	0.51	NO	33.68	0.987	1.07e6	1.11e6	95.4	-4.6	0.964	bd

Compound name: 13C-1,2,3,6,7,8-HxCDF
Response Factor: 1.07338
RRF SD: 0.0605245, Relative SD: 5.63869
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	210414R1_1	100	0.52	NO	33.79	0.990	1.11e6	9.77e5	106	5.8	1.14	db
2	210414R1_2	100	0.52	NO	33.81	0.990	1.10e6	1.01e6	102	2.1	1.10	dd
3	210414R1_3	100	0.51	NO	33.81	0.990	1.01e6	1.01e6	93.4	-6.6	1.00	db
4	210414R1_4	100	0.51	NO	33.80	0.990	1.12e6	1.08e6	96.1	-3.9	1.03	db
5	210414R1_5	100	0.51	NO	33.81	0.990	1.13e6	9.84e5	107	6.8	1.15	db
6	210414R1_6	100	0.52	NO	33.81	0.990	1.14e6	1.11e6	95.8	-4.2	1.03	db

Compound name: 13C-2,3,4,6,7,8-HxCDF
Response Factor: 0.909508
RRF SD: 0.0399449, Relative SD: 4.39192
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	210414R1_1	100	0.51	NO	34.48	1.010	8.62e5	9.77e5	97.0	-3.0	0.882	bb
2	210414R1_2	100	0.51	NO	34.50	1.011	9.20e5	1.01e6	101	0.6	0.915	bb

Dataset: U:\VG12.PRO\Results\210414R1\210414R1_CRV.qld

Last Altered: Thursday, April 15, 2021 09:26:26 Pacific Daylight Time
Printed: Thursday, April 15, 2021 10:31:17 Pacific Daylight 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	210414R1_3	100	0.51	NO	34.50	1.011	8.85e5	1.01e6	96.5	-3.5	0.878	bb
4	210414R1_4	100	0.51	NO	34.49	1.011	9.78e5	1.08e6	99.2	-0.8	0.902	bb
5	210414R1_5	100	0.51	NO	34.50	1.011	9.70e5	9.84e5	108	8.4	0.986	bb
6	210414R1_6	100	0.51	NO	34.50	1.011	9.88e5	1.11e6	98.2	-1.8	0.894	bb

Compound name: 13C-1,2,3,7,8,9-HxCDF
Response Factor: 0.828495
RRF SD: 0.0441817, Relative SD: 5.33276
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	210414R1_1	100	0.51	NO	35.58	1.043	8.35e5	9.77e5	103	3.1	0.855	bd
2	210414R1_2	100	0.50	NO	35.59	1.043	8.23e5	1.01e6	98.8	-1.2	0.819	bb
3	210414R1_3	100	0.50	NO	35.59	1.043	7.82e5	1.01e6	93.6	-6.4	0.775	bb
4	210414R1_4	100	0.51	NO	35.58	1.043	8.67e5	1.08e6	96.5	-3.5	0.800	bb
5	210414R1_5	100	0.51	NO	35.59	1.043	8.86e5	9.84e5	109	8.8	0.901	bb
6	210414R1_6	100	0.50	NO	35.59	1.043	9.08e5	1.11e6	99.1	-0.9	0.821	bb

Compound name: 13C-1,2,3,4,6,7,8-HpCDF
Response Factor: 0.660927
RRF SD: 0.0478014, Relative SD: 7.23248
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	210414R1_1	100	0.43	NO	37.16	1.089	6.01e5	9.77e5	93.0	-7.0	0.615	bb
2	210414R1_2	100	0.43	NO	37.17	1.089	7.19e5	1.01e6	108	8.2	0.715	bb
3	210414R1_3	100	0.44	NO	37.16	1.089	6.30e5	1.01e6	94.5	-5.5	0.624	bb
4	210414R1_4	100	0.44	NO	37.15	1.089	6.93e5	1.08e6	96.8	-3.2	0.639	bb
5	210414R1_5	100	0.44	NO	37.16	1.089	7.15e5	9.84e5	110	10.0	0.727	bb
6	210414R1_6	100	0.43	NO	37.17	1.089	7.13e5	1.11e6	97.6	-2.4	0.645	bb

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Dataset: U:\VG12.PRO\Results\210414R1\210414R1_CRV.qld

Last Altered: Thursday, April 15, 2021 09:26:26 Pacific Daylight Time
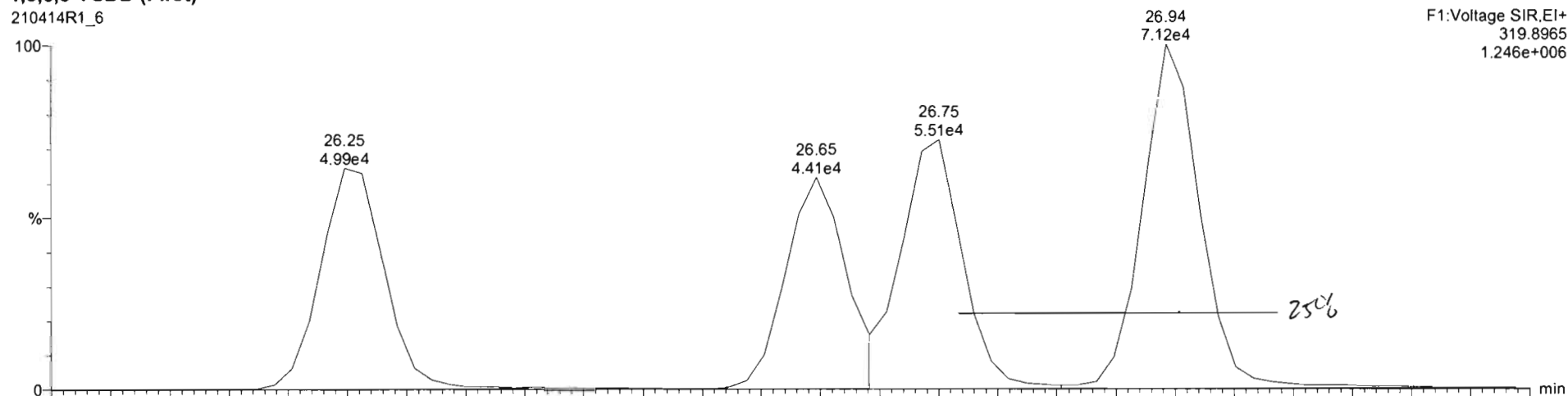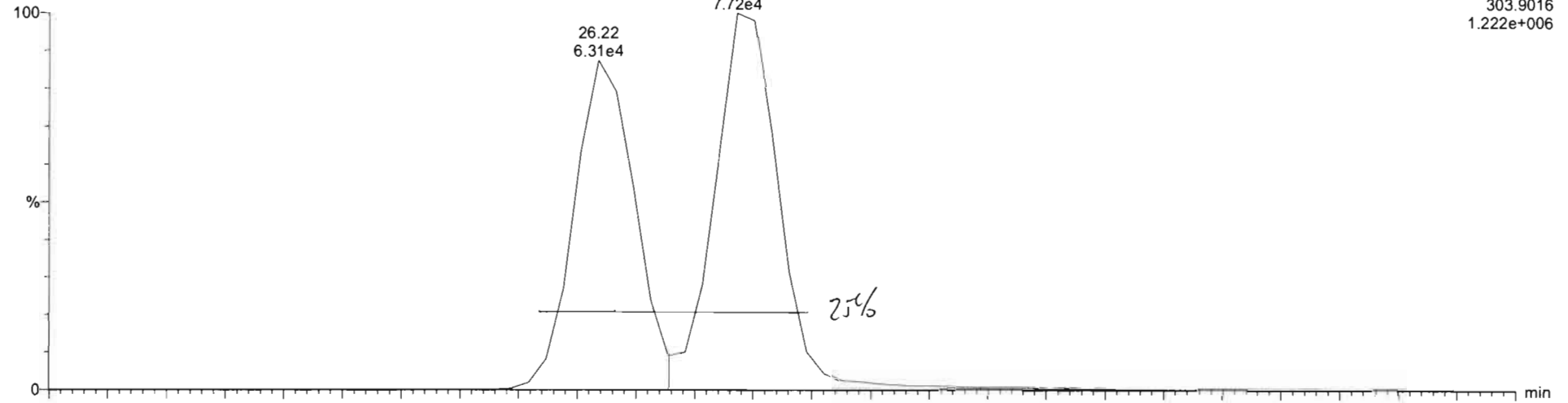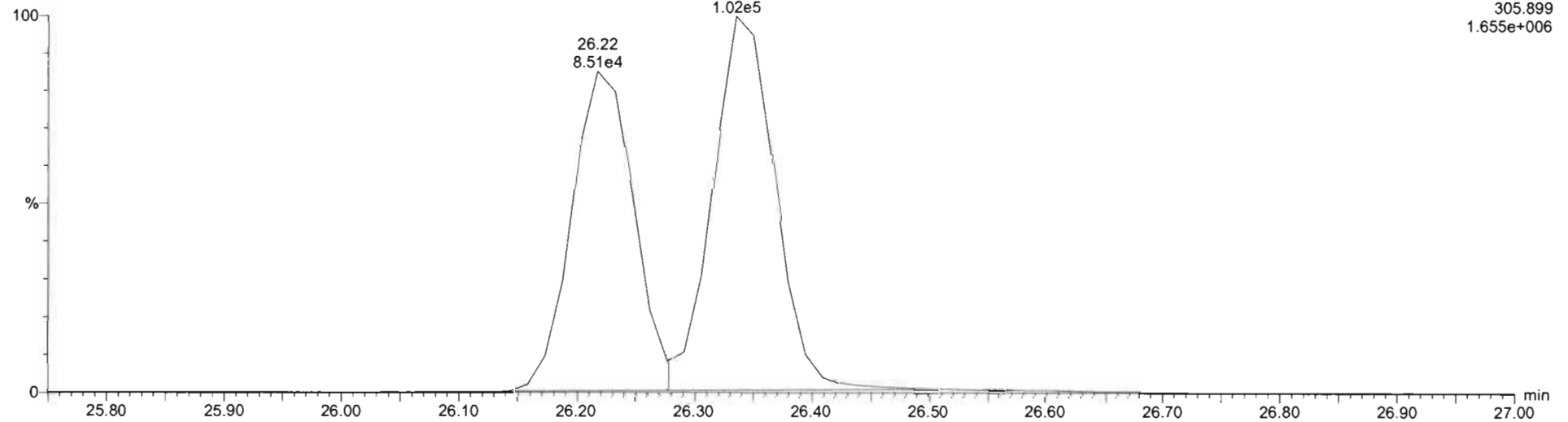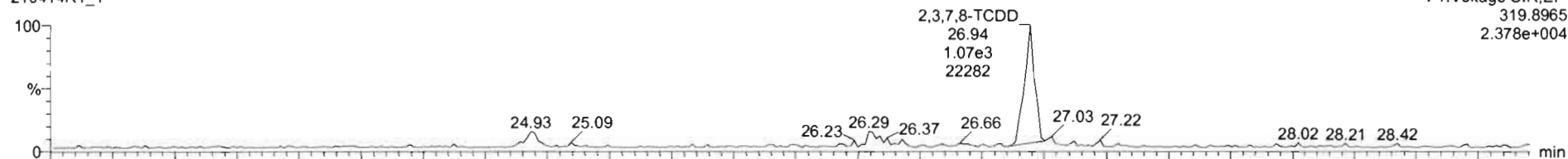Printed: Thursday, April 15, 2021 10:31:17 Pacific Daylight Time

Compound name: 13C-1,2,3,4,7,8,9-HpCDF
Response Factor: 0.565796
RRF SD: 0.0589126, Relative SD: 10.4123
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	210414R1_1	100	0.44	NO	38.95	1.141	5.32e5	9.77e5	96.2	-3.8	0.544	bb
2	210414R1_2	100	0.44	NO	38.97	1.141	6.67e5	1.01e6	117	17.2	0.663	bb
3	210414R1_3	100	0.43	NO	38.95	1.141	5.16e5	1.01e6	90.4	-9.6	0.511	bb
4	210414R1_4	100	0.43	NO	38.95	1.141	5.80e5	1.08e6	94.5	-5.5	0.535	bb
5	210414R1_5	100	0.44	NO	38.95	1.141	6.02e5	9.84e5	108	8.2	0.612	bd
6	210414R1_6	100	0.43	NO	38.97	1.141	5.85e5	1.11e6	93.5	-6.5	0.529	bb

Compound name: 13C-OCDF
Response Factor: 0.662528
RRF SD: 0.0621617, Relative SD: 9.3825
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	210414R1_1	200	0.90	NO	41.64	1.220	1.36e6	9.77e5	210	5.2	0.697	bb
2	210414R1_2	200	0.88	NO	41.66	1.220	1.47e6	1.01e6	221	10.5	0.732	bb
3	210414R1_3	200	0.89	NO	41.66	1.220	1.17e6	1.01e6	176	-12.2	0.582	bb
4	210414R1_4	200	0.88	NO	41.64	1.220	1.36e6	1.08e6	189	-5.6	0.625	bb
5	210414R1_5	200	0.88	NO	41.65	1.220	1.42e6	9.84e5	218	8.8	0.721	bb
6	210414R1_6	200	0.89	NO	41.65	1.220	1.37e6	1.11e6	187	-6.7	0.618	bb

Compound name: 37Cl-2,3,7,8-TCDD
Response Factor: 2.06778
RRF SD: 0.220438, Relative SD: 10.6606
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	210414R1_1	0.250			26.93	1.026	6.11e3	1.37e6	0.215	-13.8	1.78	bb
2	210414R1_2	0.500			26.96	1.028	1.53e4	1.38e6	0.535	6.9	2.21	bb

Quantify Compound Summary Report   MassLynx 4.1 SCN815
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Dataset: U:\VG12.PRO\Results\210414R1\210414R1_CRV.qld
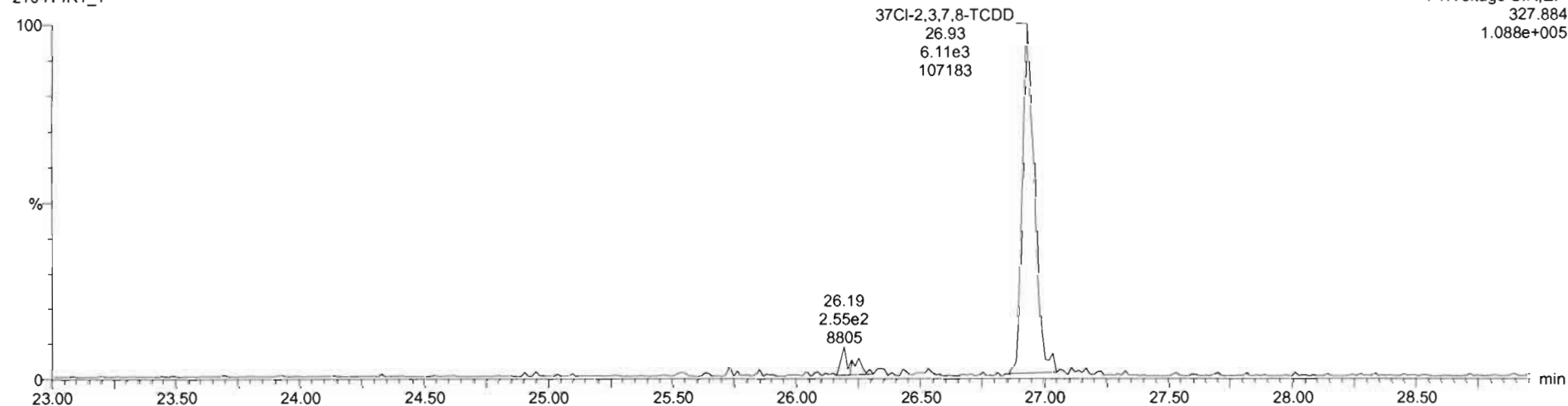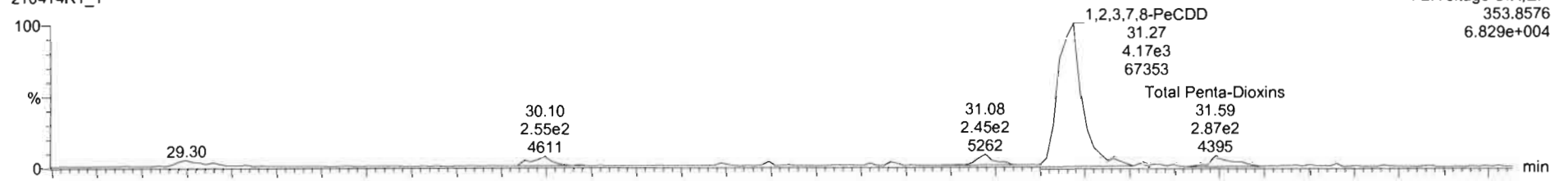
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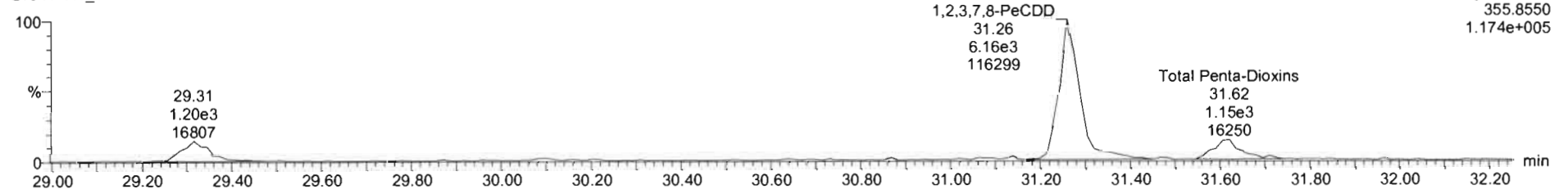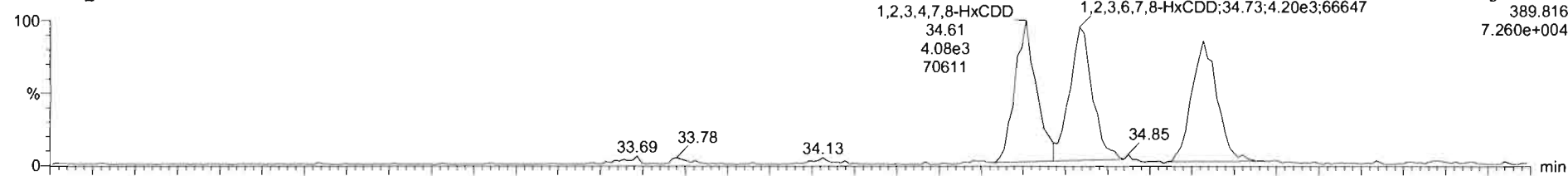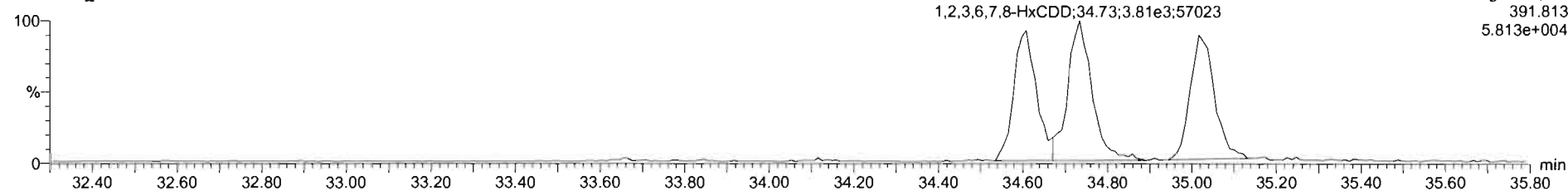Printed: Thursday, April 15, 2021 10:31:17 Pacific Daylight Time

Compound name: 37Cl-2,3,7,8-TCDD

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	210414R1_3	2.00			26.94	1.027	4.90e4	1.33e6	1.79	-10.6	1.85	bb
4	210414R1_4	40.0			26.93	1.027	1.19e6	1.40e6	41.2	2.9	2.13	bb
5	210414R1_5	200			26.94	1.028	5.63e6	1.19e6	229	14.4	2.37	bb
6	210414R1_6	10.0			26.94	1.027	3.06e5	1.48e6	10.0	0.1	2.07	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	210414R1_1	100	0.78	NO	26.23	1.000	1.37e6	1.37e6	100	0.0	1.00	bb
2	210414R1_2	100	0.78	NO	26.23	1.000	1.38e6	1.38e6	100	0.0	1.00	bb
3	210414R1_3	100	0.78	NO	26.23	1.000	1.33e6	1.33e6	100	0.0	1.00	bb
4	210414R1_4	100	0.78	NO	26.22	1.000	1.40e6	1.40e6	100	0.0	1.00	bb
5	210414R1_5	100	0.77	NO	26.22	1.000	1.19e6	1.19e6	100	0.0	1.00	bb
6	210414R1_6	100	0.78	NO	26.23	1.000	1.48e6	1.48e6	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	210414R1_1	100	0.79	NO	24.93	1.000	1.78e6	1.78e6	100	0.0	1.00	bb
2	210414R1_2	100	0.79	NO	24.95	1.000	2.00e6	2.00e6	100	0.0	1.00	bb
3	210414R1_3	100	0.78	NO	24.95	1.000	1.90e6	1.90e6	100	0.0	1.00	bb
4	210414R1_4	100	0.78	NO	24.93	1.000	2.03e6	2.03e6	100	0.0	1.00	bb
5	210414R1_5	100	0.78	NO	24.93	1.000	1.76e6	1.76e6	100	0.0	1.00	bb
6	210414R1_6	100	0.78	NO	24.95	1.000	2.12e6	2.12e6	100	0.0	1.00	bb

Dataset: U:\VG12.PRO\Results\210414R1\210414R1_CRV.qld

Last Altered: Thursday, April 15, 2021 09:26:26 Pacific Daylight Time
Printed: Thursday, April 15, 2021 10:31:17 Pacific Daylight Time

Compound name: 13C-1,2,3,4,6,9-HxCDF
Response Factor: 1
RRF SD: 0, Relative SD: 0
Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	210414R1_1	100	0.51	NO	34.13	1.000	9.77e5	9.77e5	100	0.0	1.00	bb
2	210414R1_2	100	0.51	NO	34.14	1.000	1.01e6	1.01e6	100	0.0	1.00	bb
3	210414R1_3	100	0.51	NO	34.14	1.000	1.01e6	1.01e6	100	0.0	1.00	bb
4	210414R1_4	100	0.51	NO	34.13	1.000	1.08e6	1.08e6	100	0.0	1.00	bb
5	210414R1_5	100	0.51	NO	34.14	1.000	9.84e5	9.84e5	100	0.0	1.00	bb
6	210414R1_6	100	0.51	NO	34.14	1.000	1.11e6	1.11e6	100	0.0	1.00	bb

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 10:22:19 Pacific Daylight Time
Printed: Thursday, April 15, 2021 10:22:49 Pacific Daylight Time

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Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

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

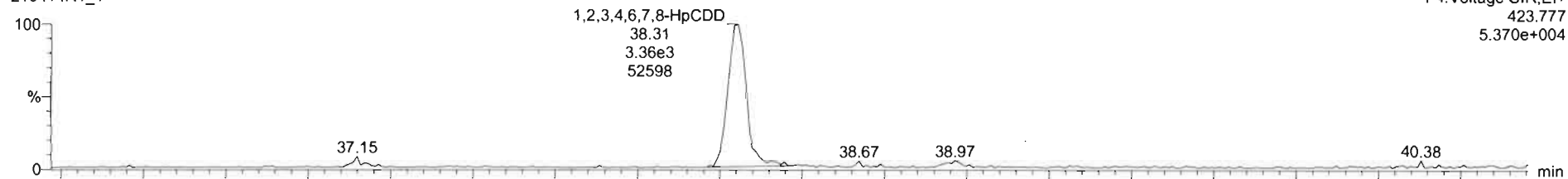|	Name	ID	Acq.Date	Acq.Time
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3	210414R1_3	ST210414R1-3 1613 CS2 21C0104	14-Apr-21	11:26:41
4	210414R1_4	ST210414R1-4 1613 CS4 21C0106	14-Apr-21	12:13:44
5	210414R1_5	ST210414R1-5 1613 CS5 21C0107	14-Apr-21	12:59:55
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Printed: Wednesday, April 14, 2021 09:36:46 Pacific Daylight Time
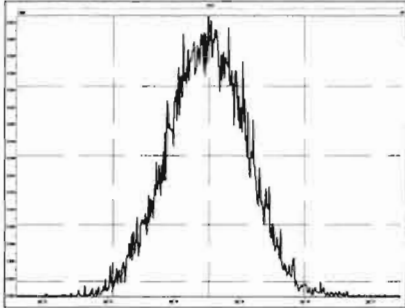
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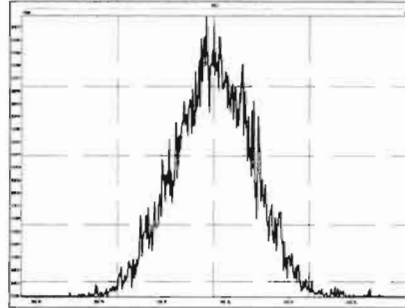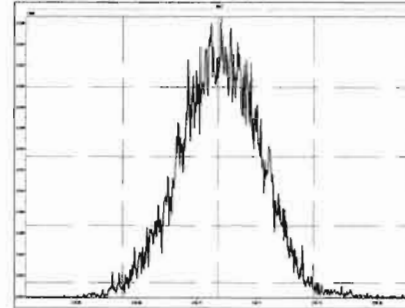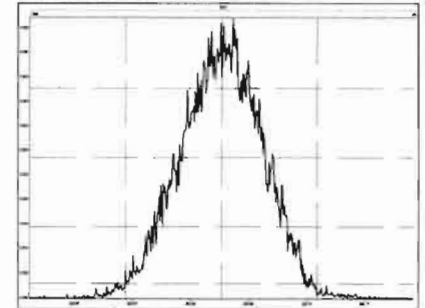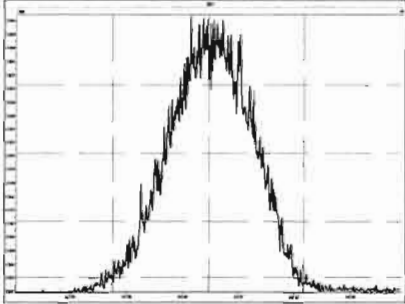
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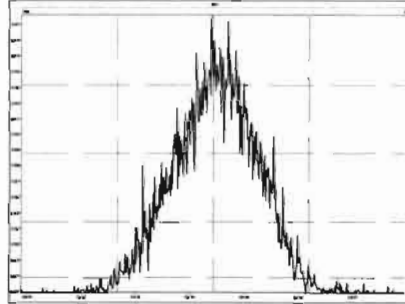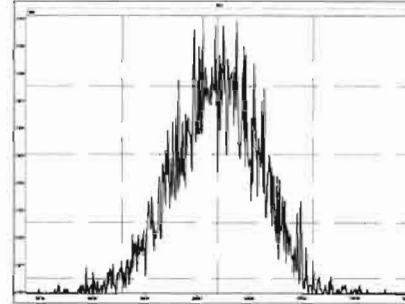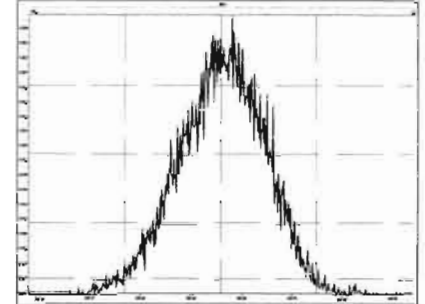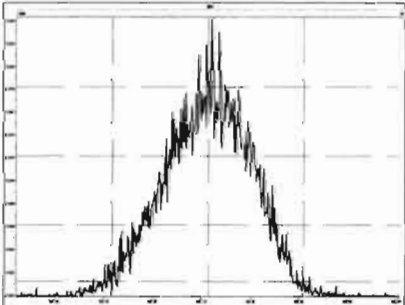
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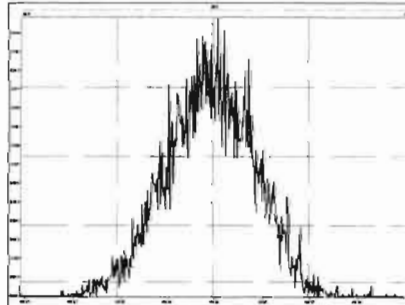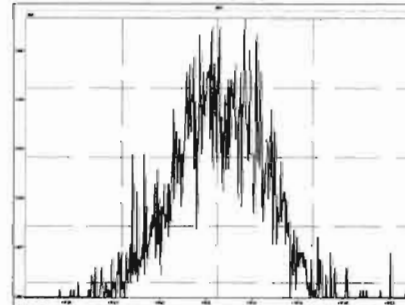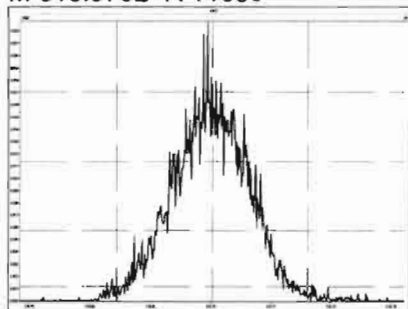
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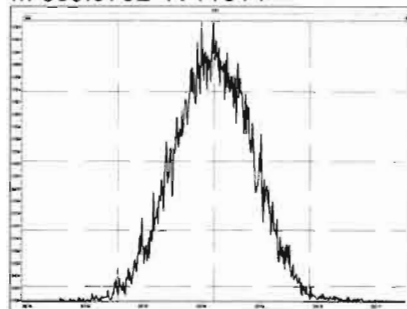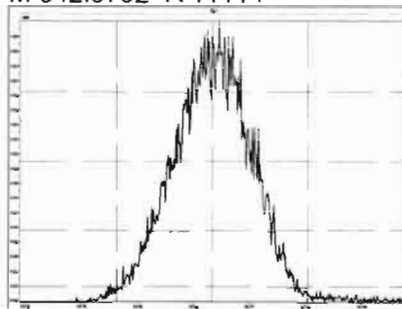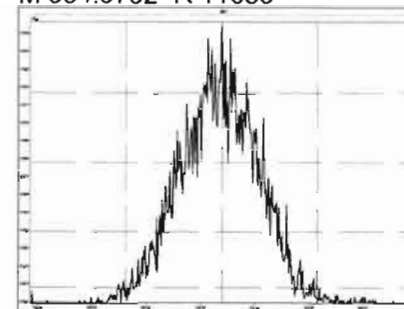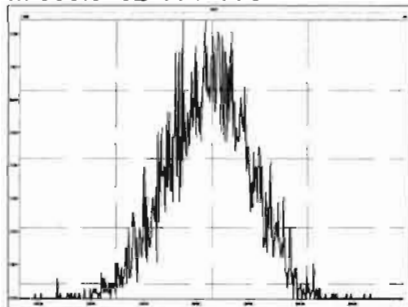
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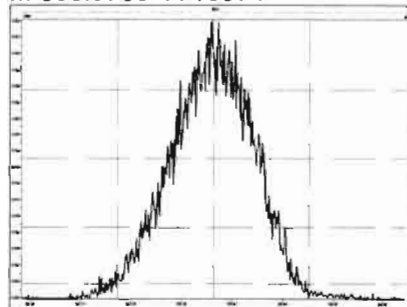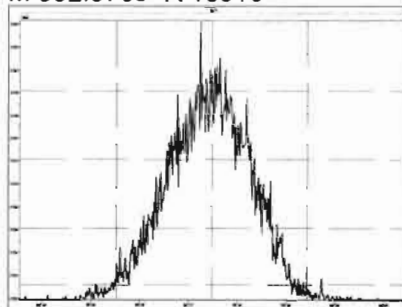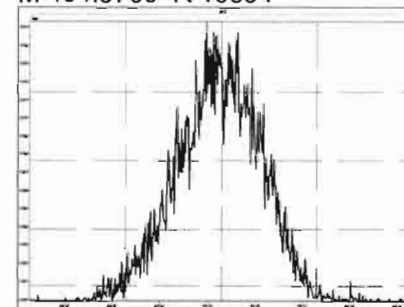
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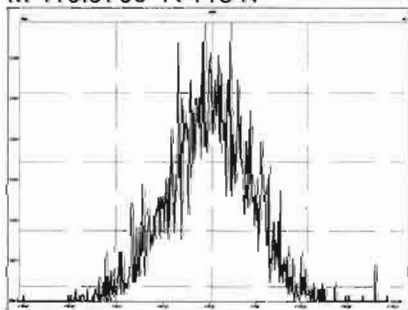
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Printed:　　　　Wednesday, April 14, 2021 09:39:36 Pacific Daylight Time
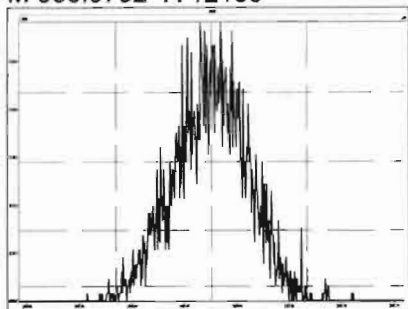
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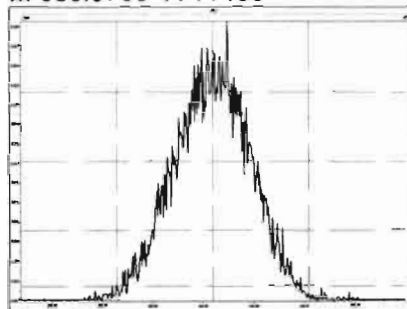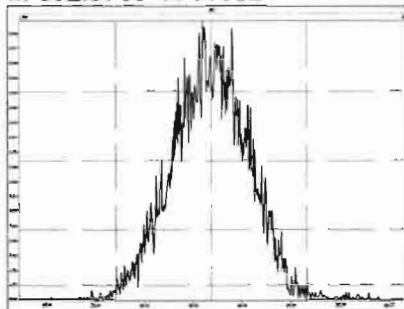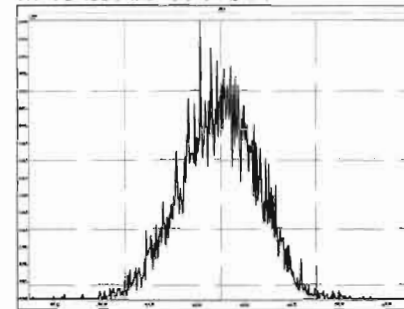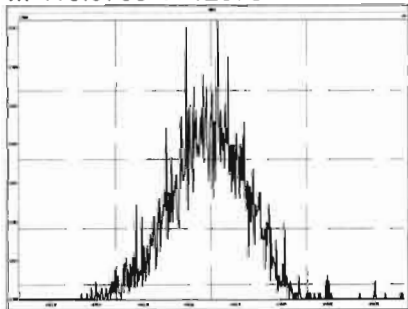
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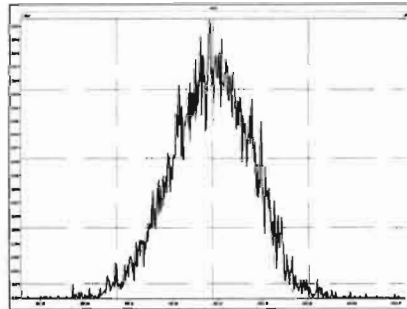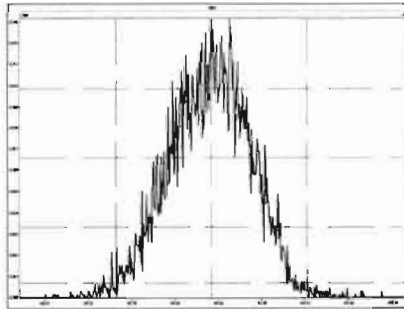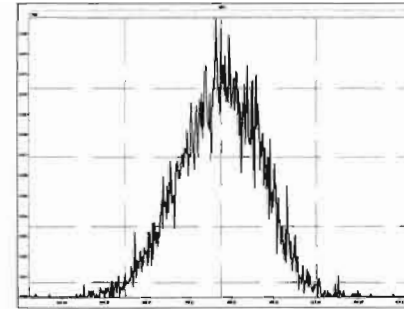
File: Experiment: OCDD_DIOXIN.exp   Reference: Pfk.ref   Function: 4 @ 200 (ppm)

Printed: Wednesday, April 14, 2021 09:40:37 Pacific Daylight Time
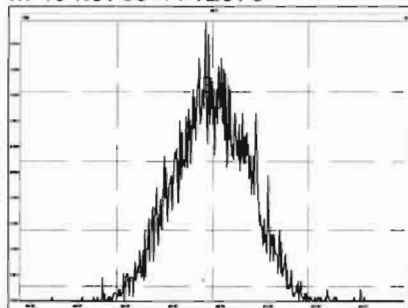
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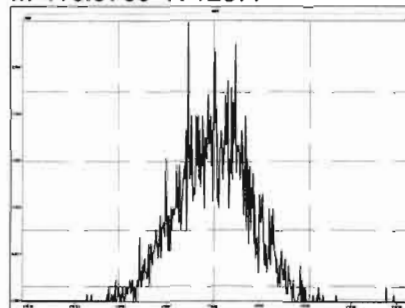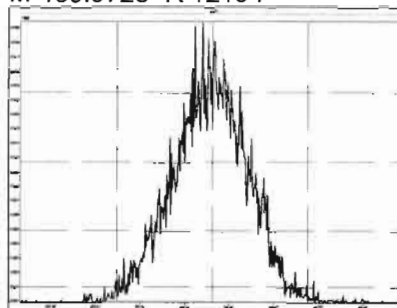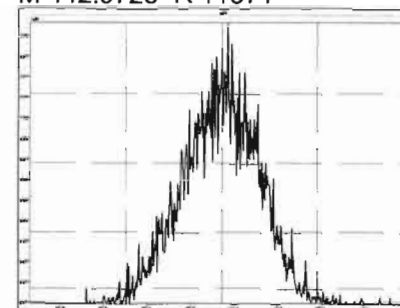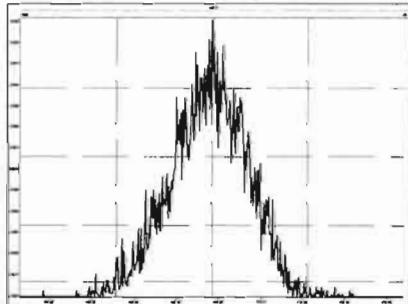
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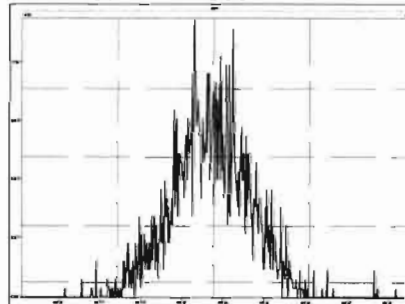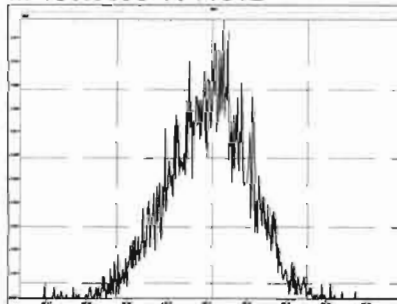
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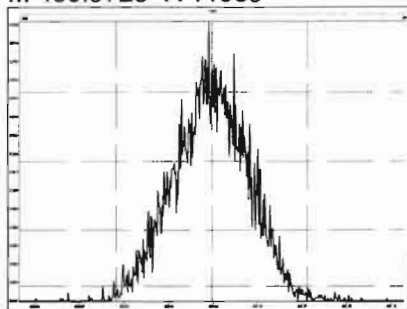
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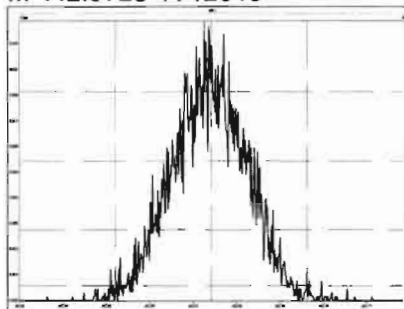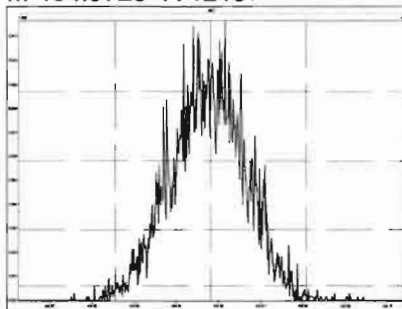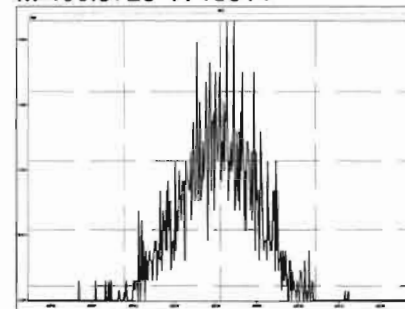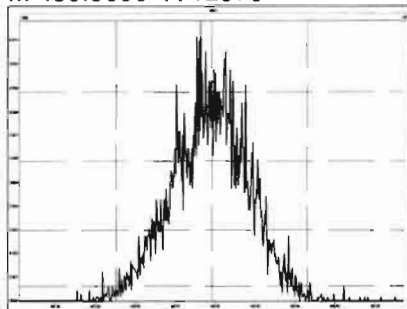
M 480.9696 R 12076   M 492.9696 R 11518   M 504.9696 R 13157   M 516.9697 R 14798
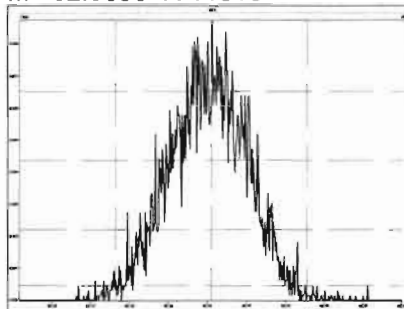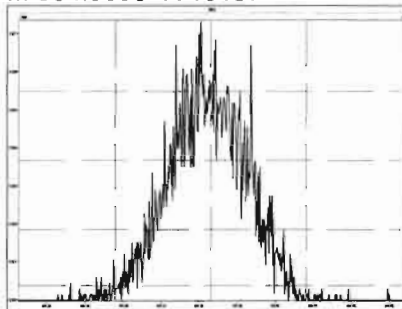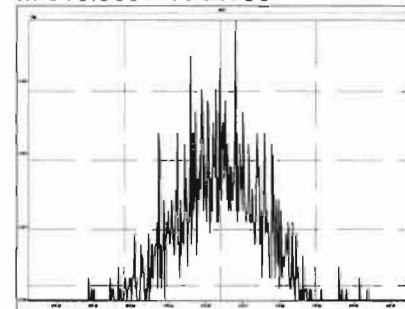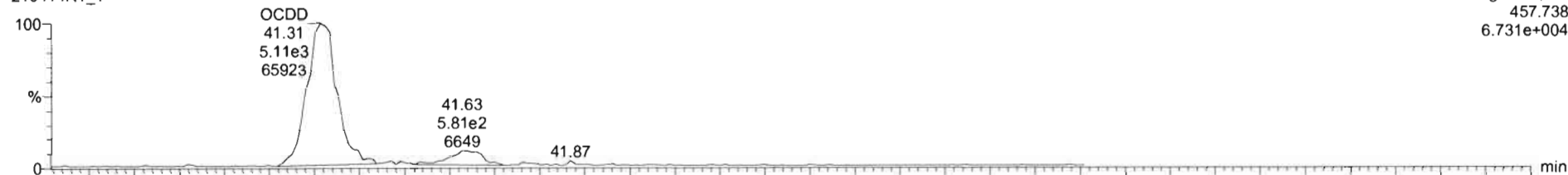
Dataset: U:\VG12.PRO\Results\210414R1\210414R1_CPSM.qld

Last Altered: Thursday, April 15, 2021 09:55:18 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:55:55 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 06 Apr 2021 16:19:34
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210414R1_6, Date: 14-Apr-2021, Time: 13:46:07, ID: ST210414R1-6 1613 CS3 21C0105, Description: 1613 CS3 21C0105

#	Name	RT
1	1 1,3,6,8-TCDD (First)	23.62
2	2 1,2,8,9-TCDD (Last)	27.76
3	3 1,2,4,7,9-PeCDD (First)	29.13
4	4 1,2,3,8,9-PeCDD (Last)	31.62
5	5 1,2,4,6,7,9-HxCDD (First)	32.89
6	6 1,2,3,7,8,9-HxCDD (Last)	35.05
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.47
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.31
9	9 1,3,6,8-TCDF (First)	21.61
10	10 1,2,8,9-TCDF (Last)	28.07
11	11 1,3,4,6,8-PeCDF (First)	27.62
12	12 1,2,3,8,9-PeCDF (Last)	31.98
13	13 1,2,3,4,6,8-HxCDF (First)	32.36
14	14 1,2,3,7,8,9-HxCDF (Last)	35.61
15	15 1,2,3,4,6,7,8-HpCDF (First)	37.18
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.98

Quantify Sample Report   **MassLynx 4.1 SCN815**
Vista Analytical Laboratory VG-11

Dataset: U:\VG12.PRO\Results\210414R1\210414R1_CPSM.qld

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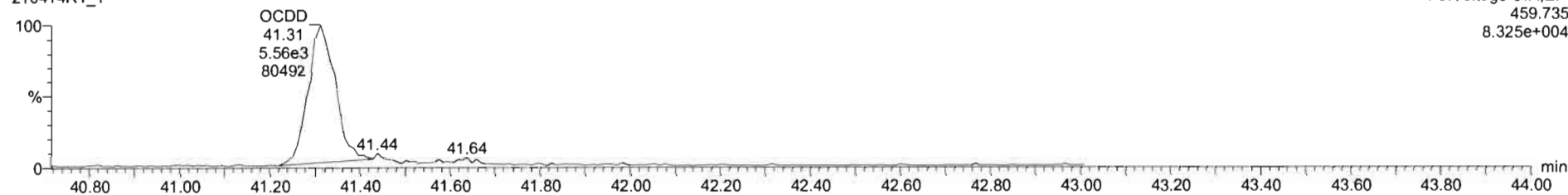Printed: Thursday, April 15, 2021 09:55:55 Pacific Daylight Time

HN 04/15/21

Method: U:\VG12.PRO\MethDB\CPSM.mdb 06 Apr 2021 16:19:34
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210414R1_6, Date: 14-Apr-2021, Time: 13:46:07, ID: ST210414R1-6 1613 CS3 21C0105, Description: 1613 CS3 21C0105

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

Dataset: U:\VG12.PRO\Results\210414R1\210414R1_CPSM.qld

Last Altered: Thursday, April 15, 2021 09:55:18 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:55:55 Pacific Daylight Time

HN 04/15/21

Name: 210414R1_6, Date: 14-Apr-2021, Time: 13:46:07, ID: ST210414R1-6 1613 CS3 21C0105, Description: 1613 CS3 21C0105
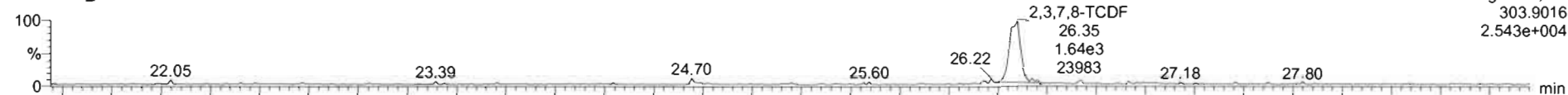
1,3,6,8-TCDF (First)

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

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Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 14 Apr 2021 14:49:28

Name: 210414R1_1, Date: 14-Apr-2021, Time: 09:44:53, ID: ST210414R1-1 1613 CS0 21D0706, Description: 1613 CS0 21D0706

2,3,7,8-TCDD

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

File Edit View Display Processing Window Help

210414R1_1 - ST210414R1-1 1613 CS0 21D0706 - 1613 CS0 21D0706

#	Name	RT	RA	y/n	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M	RRF SD
1	2,3,7,8-TCDD	26.94	0.693	NO	2.8075e3	1.3106e6	0.250	-7.8	8.93	0.929	0.0829
2	1,2,3,7,8-PeCDD	31.27	0.677	NO	1.0318e4	1.0270e6	1.250	-2.7	5.84	0.826	0.0482
3	1,2,3,4,7,8-HxCDD	34.61	1.233	NO	7.3941e3	6.5523e5	1.250	-7.2	8.87	0.972	0.0863
4	1,2,3,6,7,8-HxCDD	34.73	1.134	NO	8.0483e3	7.4877e5	1.250	-2.0	6.38	0.877	0.0560
5	1,2,3,7,8,9-HxCDD	35.03	1.217	NO	7.6564e3	7.4924e5	1.250	-6.5	8.86	0.874	0.0774
6	1,2,3,4,6,7,8-HpCDD	38.31	1.021	NO	6.5478e3	8.0817e5	1.250	-4.2	7.53	0.899	0.0677
7	OCDD	41.31	0.858	NO	1.1058e4	1.0908e6	2.500	-4.9	7.48	0.852	0.0638
8	2,3,7,8-TCDF	26.35	0.790	NO	3.8680e3	2.1654e6	0.250	-4.3	9.29	0.747	0.0693
9	1,2,3,7,8-PeCDF	30.10	1.521	NO	1.3395e4	1.3567e6	1.250	-9.9	8.18	0.877	0.0718
10	2,3,4,7,8-PeCDF	31.09	1.483	NO	1.6862e4	1.4573e6	1.250	-3.8	7.01	0.962	0.0675
11	1,2,3,4,7,8-HxCDF	33.67	1.172	NO	1.1296e4	1.0627e6	1.250	-7.5	8.29	0.920	0.0762
12	1,2,3,6,7,8-HxCDF	33.81	1.248	NO	1.1920e4	1.1097e6	1.250	-8.3	7.74	0.937	0.0725
13	2,3,4,6,7,8-HxCDF	34.50	1.224	NO	9.5902e3	8.6242e5	1.250	-8.5	8.41	0.973	0.0818
14	1,2,3,7,8,9-HxCDF	35.59	1.155	NO	9.3601e3	8.3529e5	1.250	-4.6	8.34	0.940	0.0784
15	1,2,3,4,6,7,8-HpCDF	37.17	1.018	NO	7.3127e3	6.0094e5	1.250	-7.1	8.33	1.05	0.0873
16	1,2,3,4,7,8,9-HpCDF	38.95	0.919	NO	6.4893e3	5.3180e5	1.250	-6.6	8.40	1.05	0.0879
17	OCDF	41.65	0.893	NO	1.2322e4	1.3632e6	2.500	-6.2	7.94	0.771	0.0612

210414R1_1
1613 CS0 21D0706 ST210414R1-1 1613 CS0 21D0706
F1 Voltage SIR,EI+
319.8965
2.378e+004
2,3,7,8-TCDD;26.94;1149.14;22908
26.23 26.29 26.37 26.42 26.66 27.03 27.12 27.22

210414R1_1
1613 CS0 21D0706 ST210414R1-1 1613 CS0 21D0706
F1:Voltage SIR,EI+
321.894
3.148e+004
2,3,7,8-TCDD;26.93;1658.39;30605
26.07 26.32 26.68 27.13

210414R1_1
1613 CS0 21D0706 ST210414R1-1 1613 CS0 21D0706
F1 Voltage SIR,EI+
331.9368
9.664e+006
13C-2,3,7,8-TCDD;26.91;574879.88;9238792
26.23

210414R1_1
1613 CS0 21D0706 ST210414R1-1 1613 CS0 21D0706
F1 Voltage SIR,EI+
333.934
1.209e+007
13C-2,3,7,8-TCDD;26.91;735735.56;11862456
26.23

25.30 25.40 25.50 25.60 25.70 25.80 25.90 26.00 26.10 26.20 26.30 26.40 26.50 26.60 26.70 26.80 26.90 27.00 27.10 27.20 27.30 27.40 27.50 27.60 27.70 27.80 27.90 28.00 min

Ready 210414R1_1 CAP NUM

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
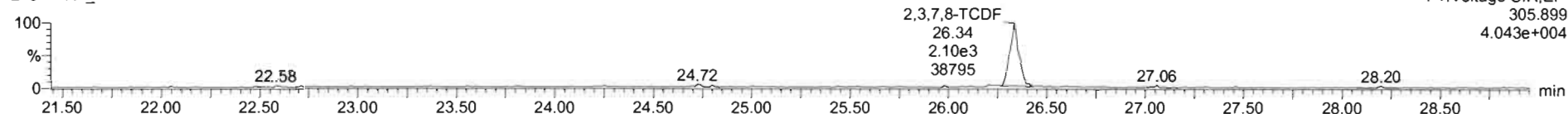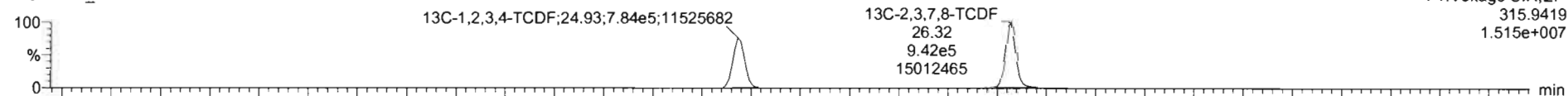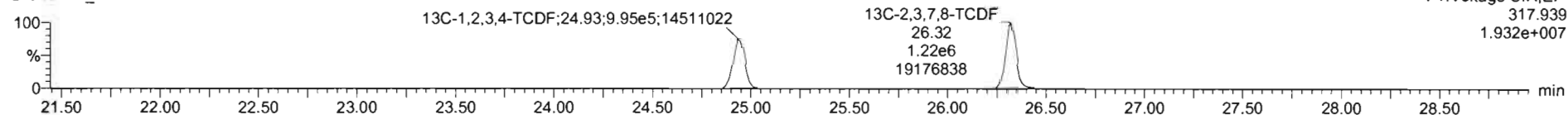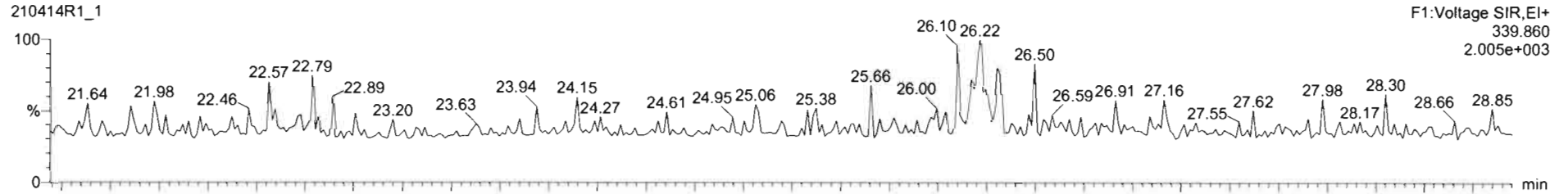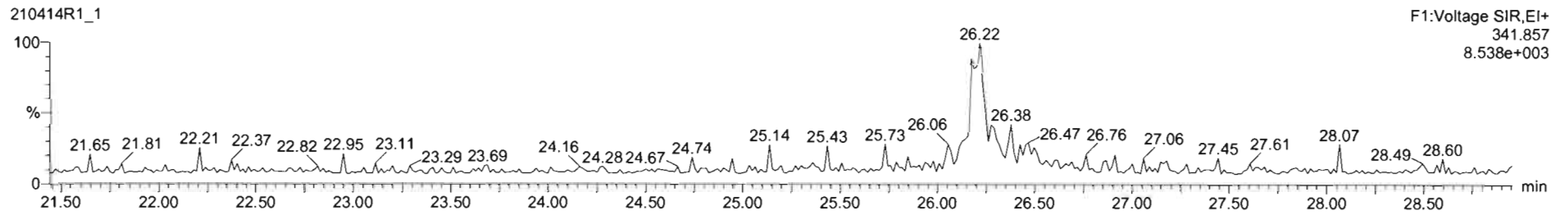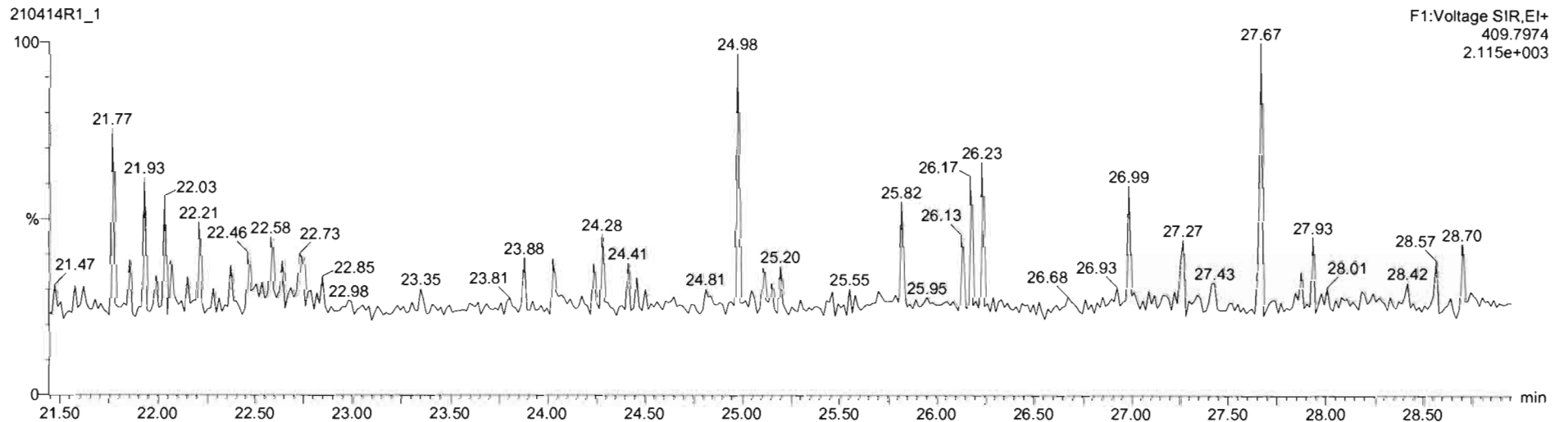Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

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Name: 210414R1_1, Date: 14-Apr-2021, Time: 09:44:53, ID: ST210414R1-1 1613 CS0 21D0706, Description: 1613 CS0 21D0706

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

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

Quantify Sample Report   MassLynx 4.1 SCN815

Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

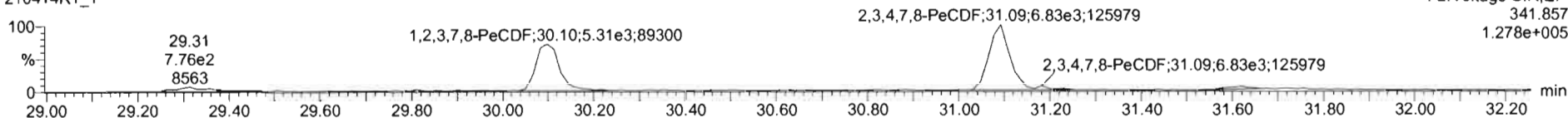**Name: 210414R1_1, Date: 14-Apr-2021, Time: 09:44:53, ID: ST210414R1-1 1613 CS0 21D0706, Description: 1613 CS0 21D0706**

1,2,3,7,8-PeCDD

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

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_1, Date: 14-Apr-2021, Time: 09:44:53, ID: ST210414R1-1 1613 CS0 21D0706, Description: 1613 CS0 21D0706

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

File Edit View Display Processing Window Help

210414R1_1   ST210414R1-1 1613 CS0 21D0706 - 1613 CS0 21D0706

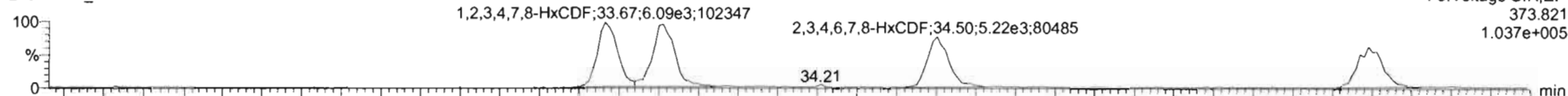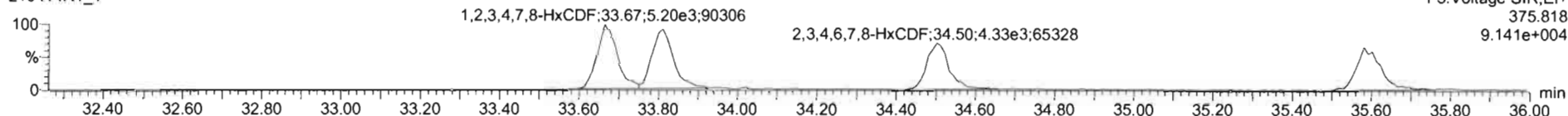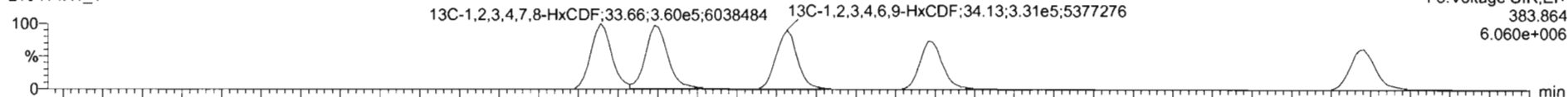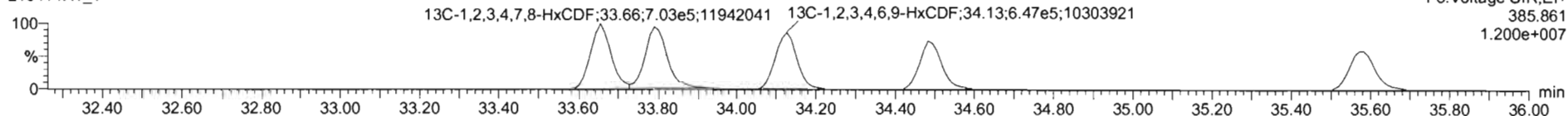| #	Name	RT	RA	y/n	Area	IS Area	Std Conc	%Dev	%RSD	RRF M	RRF SD
1	1 2,3,7,8-TCDD	26.94	0.693	NO	2.8075e3	1.3106e6	0.250	-7.8	8.93	0.929	0.0829
2	2 1,2,3,7,8-PeCDD	31.27	0.677	NO	1.0318e4	1.0270e6	1.250	-2.7	5.84	0.826	0.0482
3	3 1,2,3,4,7,8-HxCDD	34.61	1.233	NO	7.3941e3	6.5523e5	1.250	-7.2	8.87	0.972	0.0863
4	4 1,2,3,6,7,8-HxCDD	34.73	1.134	NO	8.0483e3	7.4877e5	1.250	-2.0	6.38	0.877	0.0560
5	5 1,2,3,7,8,9-HxCDD	35.03	1.217	NO	7.6564e3	7.4924e5	1.250	-6.5	8.88	0.874	0.0774
6	6 1,2,3,4,6,7,8-HpCDD	38.31	1.021	NO	6.5478e3	6.0817e5	1.250	-4.2	7.53	0.899	0.0677
7	7 OCDD	41.31	0.858	NO	1.1058e4	1.0908e6	2.500	-4.9	7.48	0.852	0.0638
8	8 2,3,7,8-TCDF	26.35	0.790	NO	3.8680e3	2.1654e6	0.250	-4.3	9.29	0.747	0.0693
9	9 1,2,3,7,8-PeCDF	30.10	1.521	NO	1.3395e4	1.3567e6	1.250	-9.9	8.18	0.877	0.0718
10	10 2,3,4,7,8-PeCDF	31.09	1.483	NO	1.6862e4	1.4573e6	1.250	-3.8	7.01	0.962	0.0675
11	11 1,2,3,4,7,8-HxCDF	33.67	1.172	NO	1.1296e4	1.0627e6	1.250	-7.6	8.23	0.920	0.0758
12	12 1,2,3,6,7,8-HxCDF	33.81	1.248	NO	1.1920e4	1.1097e6	1.250	-8.2	7.76	0.936	0.0727
13	13 2,3,4,6,7,8-HxCDF	34.50	1.224	NO	9.5902e3	8.6242e5	1.250	-8.5	8.41	0.973	0.0818

210414R1_1
1613 CS0 21D0706 ST210414R1-1 1613 CS0 21D0706

F3 Voltage SIR,EI+
389.816
6.930e+004

1,2,3,6,7,8-HxCDD;34.73;4276.12;66977

34.64   34.85   35.03

210414R1_1
1613 CS0 21D0706 ST210414R1-1 1613 CS0 21D0706

F3 Voltage SIR,EI+
391.813
5.813e+004

1,2,3,6,7,8-HxCDD;34.73;3772.15;57055

34.64   35.02

210414R1_1
1613 CS0 21D0706 ST210414R1-1 1613 CS0 21D0706

F3 Voltage SIR,EI+
401.856
6.180e+006

13C-1,2,3,6,7,8-HxCDD;34.72;422307.44;5102836

34.64   35.02

210414R1_1
1613 CS0 21D0706 ST210414R1-1 1613 CS0 21D0706

F3 Voltage SIR,EI+
403.853
4.823e+006

13C-1,2,3,6,7,8-HxCDD;34.72;326460.28;4770573

34.64   35.02

34.650 34.700 34.750 34.800 34.850 34.900 34.950 35.000 35.050 35.100 35.150 35.200 35.250 35.300 35.350 35.400   min

Ready   210414R1_1   CAP NUM

#	Name	RT	RA	y/n	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M	RRF SD
1	2,3,7,8-TCDD	26.94	0.693	NO	2.8075e3	1.3106e6	0.250	-7.8	8.93	0.929	0.0829
2	1,2,3,7,8-PeCDD	31.27	0.677	NO	1.0318e4	1.0270e6	1.250	-2.7	5.84	0.826	0.0482
3	1,2,3,4,7,8-HxCDD	34.61	1.233	NO	7.3941e3	6.5523e5	1.250	-7.2	8.87	0.972	0.0863
4	1,2,3,6,7,8-HxCDD	34.73	1.134	NO	8.0483e3	7.4877e5	1.250	-2.0	6.38	0.877	0.0560
5	1,2,3,7,8,9-HxCDD	35.03	1.217	NO	7.6564e3	7.4924e5	1.250	-6.5	8.86	0.874	0.0774
6	1,2,3,4,6,7,8-HpCDD	38.31	1.021	NO	6.5478e3	6.0817e5	1.250	-4.2	7.53	0.899	0.0677
7	OCDD	41.31	0.858	NO	1.1058e4	1.0908e6	2.500	-4.9	7.48	0.852	0.0638
8	2,3,7,8-TCDF	26.35	0.790	NO	3.8680e3	2.1654e6	0.250	-4.3	9.29	0.747	0.0693
9	1,2,3,7,8-PeCDF	30.10	1.521	NO	1.3395e4	1.3567e6	1.250	-9.9	8.18	0.877	0.0718
10	2,3,4,7,8-PeCDF	31.09	1.483	NO	1.6862e4	1.4573e6	1.250	-3.8	7.01	0.962	0.0675
11	1,2,3,4,7,8-HxCDF	33.67	1.172	NO	1.1296e4	1.0627e6	1.250	-7.6	6.23	0.920	0.0758
12	1,2,3,6,7,8-HxCDF	33.81	1.248	NO	1.1920e4	1.1097e6	1.250	-8.2	7.76	0.936	0.0727
13	2,3,4,6,7,8-HxCDF	34.50	1.224	NO	9.5902e3	8.6242e5	1.250	-8.5	8.41	0.973	0.0818

210414R1_1
1613 CS0 21D0706 ST210414R1-1 1613 CS0 21D0706
F3 Voltage SIR,EI+
389.816
6.257e+004
1,2,3,7,8,9-HxCDD;35.03;4203.56;60480
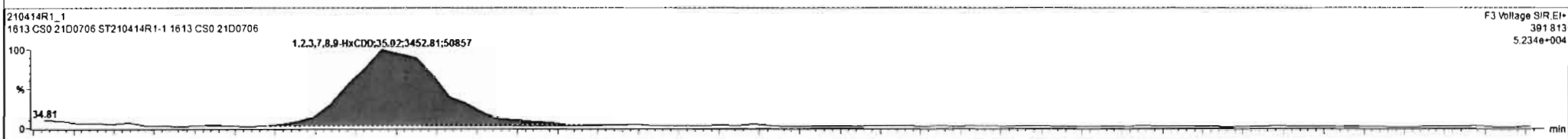
210414R1_1
1613 CS0 21D0706 ST210414R1-1 1613 CS0 21D0706
F3 Voltage SIR,EI+
391.813
5.234e+004
1,2,3,7,8,9-HxCDD;35.02;3452.81;50857
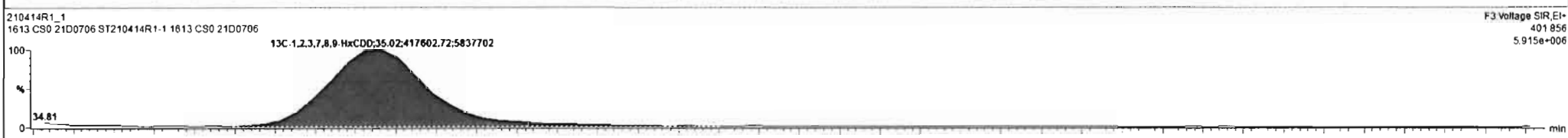
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401.856
5.915e+006
13C-1,2,3,7,8,9-HxCDD;35.02;417602.72;5837702
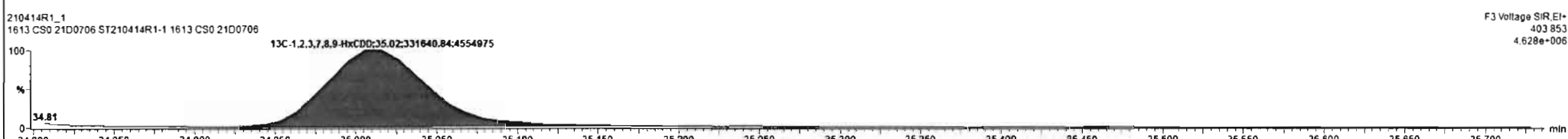
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F3 Voltage SIR,EI+
403.853
4.628e+006
13C-1,2,3,7,8,9-HxCDD;35.02;331640.84;4554975

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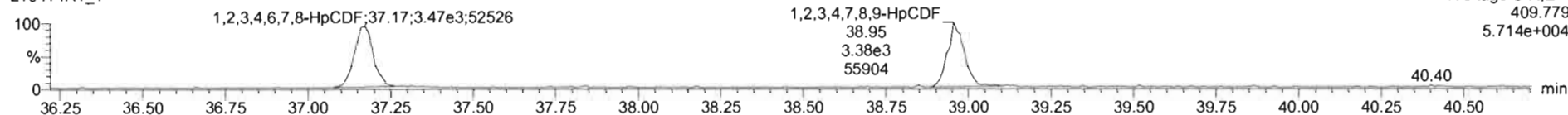Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

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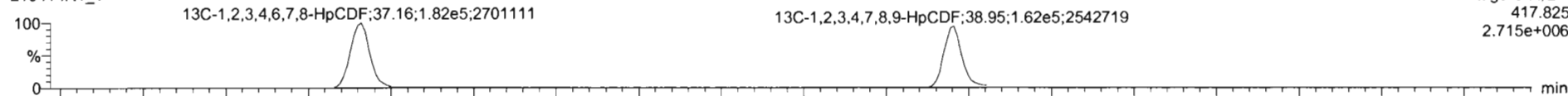
1,2,3,4,6,7,8-HpCDD

210414R1_1

F4:Voltage SIR,EI+
423.777
5.370e+004

1,2,3,4,6,7,8-HpCDD
38.31
3.36e3
52598

37.15   38.67   38.97   40.38

210414R1_1

F4:Voltage SIR,EI+
425.774
5.585e+004

1,2,3,4,6,7,8-HpCDD
38.30
3.15e3
54391

39.03   39.72   40.38

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

210414R1_1

F4:Voltage SIR,EI+
435.817
4.852e+006

13C-1,2,3,4,6,7,8-HpCDD
38.28
3.05e5
4815823

210414R1_1

F4:Voltage SIR,EI+
437.814
4.706e+006

13C-1,2,3,4,6,7,8-HpCDD
38.28
3.04e5
4694662

		Name	RT	RA	y/n	Area	IS Area	Std Conc	%Dev	%RSD	RRF M	RRF SD
1	1	2,3,7,8-TCDD	26.94	0.693	NO	2.8075e3	1.3108e6	0.250	-7.8	8.93	0.929	0.0829
2	2	1,2,3,7,8-PeCDD	31.27	0.677	NO	1.0318e4	1.0270e6	1.250	-2.7	5.84	0.826	0.0482
3	3	1,2,3,4,7,8-HxCDD	34.61	1.233	NO	7.3941e3	6.5523e5	1.250	-7.2	8.87	0.972	0.0863
4	4	1,2,3,6,7,8-HxCDD	34.73	1.134	NO	8.0483e3	7.4877e5	1.250	-2.0	6.38	0.877	0.0560
5	5	1,2,3,7,8,9-HxCDD	35.03	1.217	NO	7.6564e3	7.4924e5	1.250	-6.5	8.86	0.874	0.0774
6	6	1,2,3,4,6,7,8-HpCDD	38.31	1.021	NO	6.5476e3	6.0817e5	1.250	-4.2	7.53	0.899	0.0677
7	7	OCDD	41.31	0.858	NO	1.1058e4	1.0908e6	2.500	-4.9	7.48	0.852	0.0638
8	8	2,3,7,8-TCDF	26.35	0.790	NO	3.8680e3	2.1654e6	0.250	-4.3	9.29	0.747	0.0693
9	9	1,2,3,7,8-PeCDF	30.10	1.521	NO	1.3395e4	1.3567e6	1.250	-9.9	8.18	0.877	0.0718
10	10	2,3,4,7,8-PeCDF	31.09	1.483	NO	1.6862e4	1.4573e6	1.250	-3.8	7.01	0.962	0.0675
11	11	1,2,3,4,7,8-HxCDF	33.67	1.172	NO	1.1296e4	1.0627e6	1.250	-7.6	8.23	0.920	0.0758
12	12	1,2,3,6,7,8-HxCDF	33.81	1.248	NO	1.1920e4	1.1097e6	1.250	-8.2	7.76	0.936	0.0727
13	13	2,3,4,6,7,8-HxCDF	34.50	1.224	NO	9.5902e3	8.6242e5	1.250	-8.5	8.41	0.973	0.0818

210414R1_1
1613 CS0 21D0706 ST210414R1-1 1613 CS0 21D0706 — F4:Voltage SIR,EI+ 423.777 — 5.370e+004

1,2,3,4,6,7,8-HpCDD;38.31;3307.75;52783

210414R1_1
1613 CS0 21D0706 ST210414R1-1 1613 CS0 21D0706 — F4:Voltage SIR,EI+ 425.774 — 5.585e+004

1,2,3,4,6,7,8-HpCDD;38.29;3240.06;54870

210414R1_1
1613 CS0 21D0706 ST210414R1-1 1613 CS0 21D0706 — F4:Voltage SIR,EI+ 435.817 — 4.852e+006

13C-1,2,3,4,6,7,8-HpCDD;38.28;309431.53;4828896

210414R1_1
1613 CS0 21D0706 ST210414R1-1 1613 CS0 21D0706 — F4:Voltage SIR,EI+ 437.814 — 4.706e+006

13C-1,2,3,4,6,7,8-HpCDD;38.28;298741.56;4693765

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

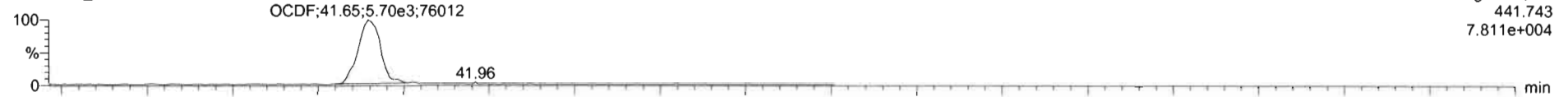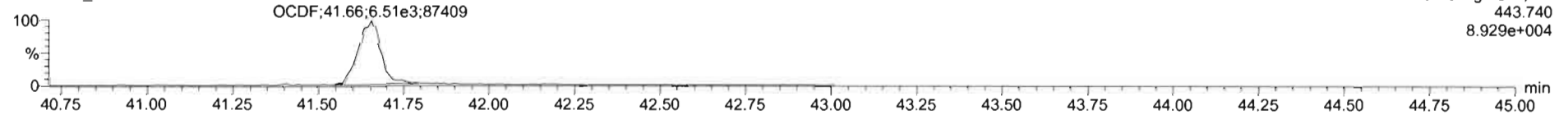**Name: 210414R1_1, Date: 14-Apr-2021, Time: 09:44:53, ID: ST210414R1-1 1613 CS0 21D0706, Description: 1613 CS0 21D0706**
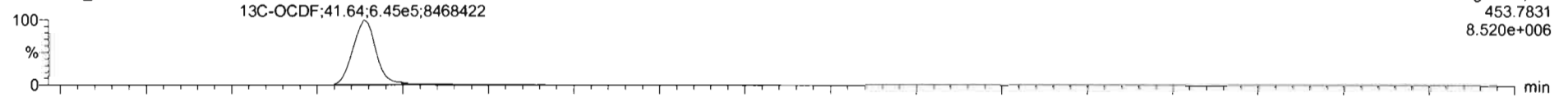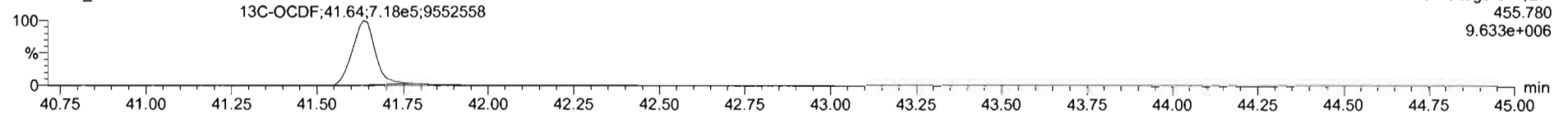
OCDD

13C-OCDD

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210414R1_1   ST210414R1-1 1613 CS0 21D0706   1613 CS0 21D0706

		Name	RT	RA	y/n	Area	IS Area	Std Conc	%Dev	%RSD	RRF M	RRF SD
1	1	2,3,7,8-TCDD	26.94	0.693	NO	2.8075e3	1.3106e6	0.250	-7.8	8.93	0.929	0.0829
2	2	1,2,3,7,8-PeCDD	31.27	0.677	NO	1.0318e4	1.0270e6	1.250	-2.7	5.84	0.826	0.0482
3	3	1,2,3,4,7,8-HxCDD	34.61	1.233	NO	7.3941e3	6.5523e5	1.250	-7.2	8.87	0.972	0.0863
4	4	1,2,3,6,7,8-HxCDD	34.73	1.134	NO	8.0483e3	7.4877e5	1.250	-2.0	6.38	0.877	0.0560
5	5	1,2,3,7,8,9-HxCDD	35.03	1.217	NO	7.6564e3	7.4924e5	1.250	-6.5	8.86	0.874	0.0774
6	6	1,2,3,4,6,7,8-HpCDD	38.31	1.021	NO	6.5478e3	6.0817e5	1.250	-4.2	7.53	0.899	0.0677
7	7	OCDD	41.31	0.858	NO	1.1058e4	1.0905e6	2.500	-4.9	7.48	0.852	0.0638
8	8	2,3,7,8-TCDF	26.35	0.790	NO	3.8680e3	2.1654e6	0.250	-4.3	9.29	0.747	0.0693
9	9	1,2,3,7,8-PeCDF	30.10	1.521	NO	1.3395e4	1.3567e6	1.250	-9.9	8.18	0.877	0.0718
10	10	2,3,4,7,8-PeCDF	31.09	1.483	NO	1.6862e4	1.4573e6	1.250	-3.8	7.01	0.962	0.0675
11	11	1,2,3,4,7,8-HxCDF	33.67	1.172	NO	1.1296e4	1.0627e6	1.250	-7.6	8.23	0.920	0.0758
12	12	1,2,3,6,7,8-HxCDF	33.81	1.248	NO	1.1920e4	1.1097e6	1.250	-8.2	7.76	0.936	0.0727
13	13	2,3,4,6,7,8-HxCDF	34.50	1.224	NO	9.5902e3	8.6242e5	1.250	-8.5	8.41	0.973	0.0818

210414R1_1
1613 CS0 21D0706 ST210414R1-1 1613 CS0 21D0706
F5:Voltage SIR,EI+
457.738
6.731e+004
OCDD;41.31;5107.95;65923

210414R1_1
1613 CS0 21D0706 ST210414R1-1 1613 CS0 21D0706
F5:Voltage SIR,EI+
459.735
8.325e+004
OCDD;41.31;5950.35;82171

210414R1_1
1613 CS0 21D0706 ST210414R1-1 1613 CS0 21D0706
F5:Voltage SIR,EI+
469.778
7.221e+006
13C-OCDD;41.30;522176.59;7213417

210414R1_1
1613 CS0 21D0706 ST210414R1-1 1613 CS0 21D0706
F5:Voltage SIR,EI+
471.775
7.809e+006
13C-OCDD;41.30;568645.19;7718352
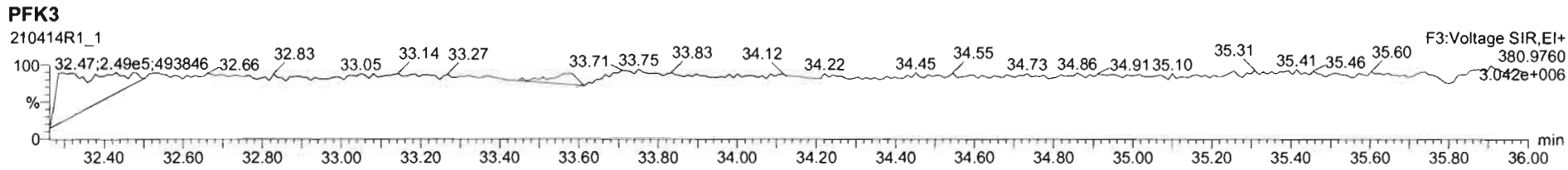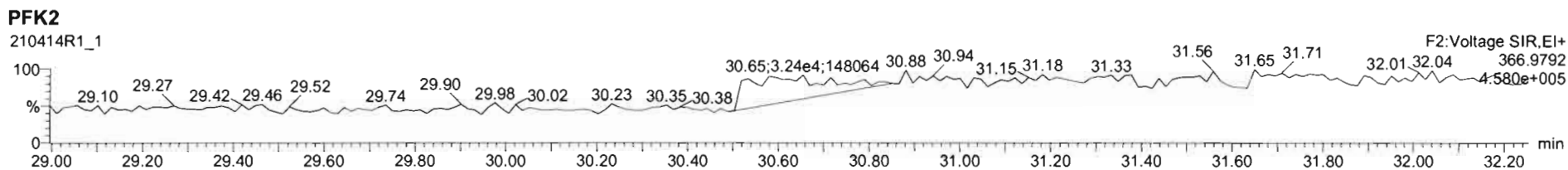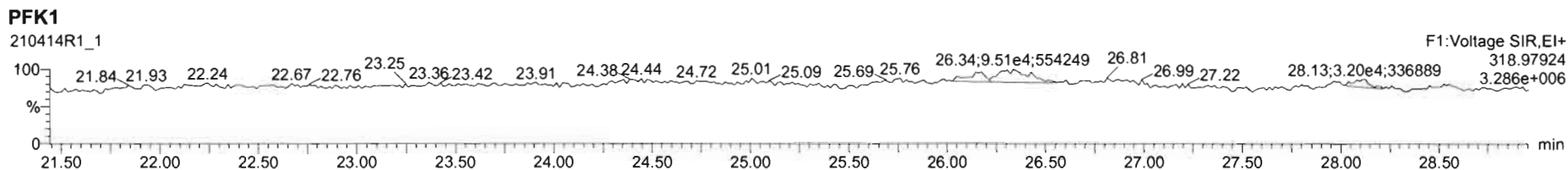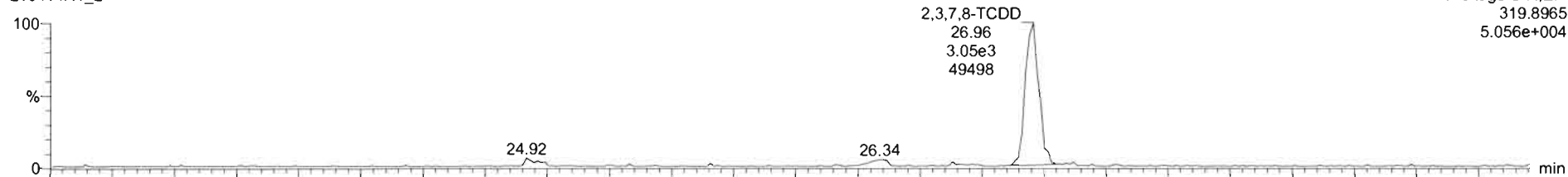
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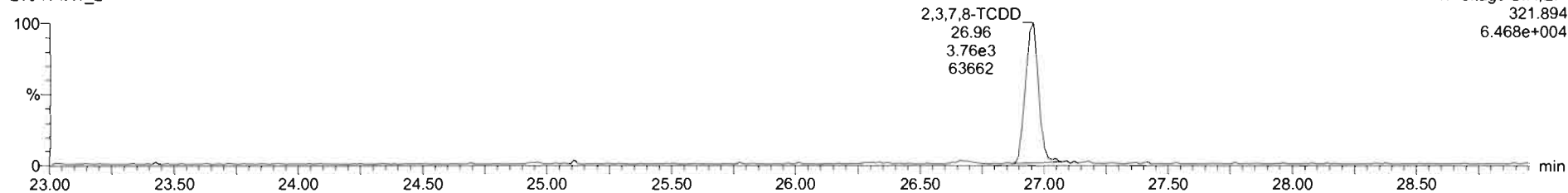Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

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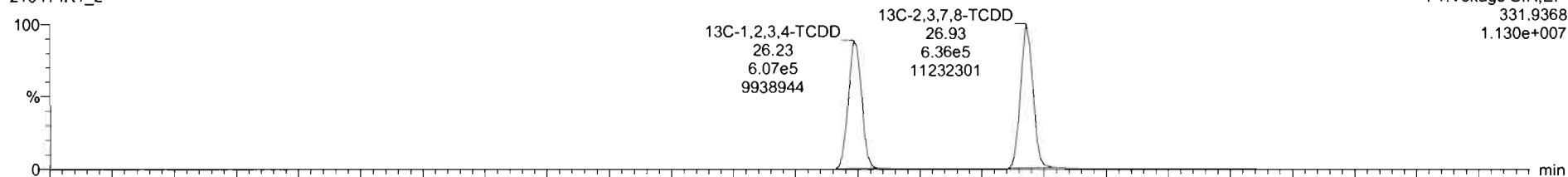
2,3,7,8-TCDF

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

DPE1

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210414R1_1 - ST210414R1-1 1613 CS0 21D0706 - 1613 CS0 21D0706

#	Name	RT	RA	y/n	Area	IS Area	Std Conc	%Dev	%RSD	RRF M	RRF SD
1	2,3,7,8-TCDD	26.94	0.693	NO	2.8075e3	1.3106e6	0.250	-7.8	8.93	0.929	0.0829
2	1,2,3,7,8-PeCDD	31.27	0.677	NO	1.0318e4	1.0270e6	1.250	-2.7	5.84	0.826	0.0482
3	1,2,3,4,7,8-HxCDD	34.61	1.233	NO	7.3941e3	6.5523e5	1.250	-7.2	8.87	0.972	0.0863
4	1,2,3,6,7,8-HxCDD	34.73	1.134	NO	8.0483e3	7.4877e5	1.250	-2.0	6.38	0.877	0.0560
5	1,2,3,7,8,9-HxCDD	35.03	1.217	NO	7.6564e3	7.4924e5	1.250	-6.5	8.86	0.874	0.0774
6	1,2,3,4,6,7,8-HpCDD	38.31	1.021	NO	6.5478e3	6.0817e5	1.250	-4.2	7.53	0.899	0.0677
7	OCDD	41.31	0.858	NO	1.1058e4	1.0908e6	2.500	-4.9	7.48	0.852	0.0638
8	2,3,7,8-TCDF	26.35	0.790	NO	3.8680e3	2.1654e6	0.250	-4.3	9.29	0.747	0.0693
9	1,2,3,7,8-PeCDF	30.10	1.521	NO	1.3395e4	1.3567e6	1.250	-9.9	8.18	0.877	0.0718
10	2,3,4,7,8-PeCDF	31.09	1.483	NO	1.6862e4	1.4573e6	1.250	-3.8	7.01	0.962	0.0675
11	1,2,3,4,7,8-HxCDF	33.67	1.172	NO	1.1296e4	1.0627e6	1.250	-7.6	8.23	0.920	0.0758
12	1,2,3,6,7,8-HxCDF	33.81	1.248	NO	1.1920e4	1.1097e6	1.250	-8.2	7.76	0.936	0.0727
13	2,3,4,6,7,8-HxCDF	34.50	1.224	NO	9.5902e3	8.6242e5	1.250	-8.5	8.41	0.973	0.0818

210414R1_1
1613 CS0 21D0706 ST210414R1-1 1613 CS0 21D0706
F1 Voltage SIR,EI+
303.9016
2.543e+004

2,3,7,8-TCDF
26.35
1707.13
24405

24.70   25.60   26.17 26.22   2,3,7,8-TCDF;26.35;1707.13;24405   26.91   27.18

210414R1_1
1613 CS0 21D0706 ST210414R1-1 1613 CS0 21D0706
F1 Voltage SIR,EI+
305.899
4.043e+004

2,3,7,8-TCDF
26.34
2160.89
39163

24.72   25.98   27.06

210414R1_1
1613 CS0 21D0706 ST210414R1-1 1613 CS0 21D0706
F1 Voltage SIR,EI+
315.9419
1.515e+007

24.93   13C-2,3,7,8-TCDF;26.32;941510.19;15012465

210414R1_1
1613 CS0 21D0706 ST210414R1-1 1613 CS0 21D0706
F1 Voltage SIR,EI+
317.939
1.932e+007

24.93   13C-2,3,7,8-TCDF;26.32;1223850.50;19176838
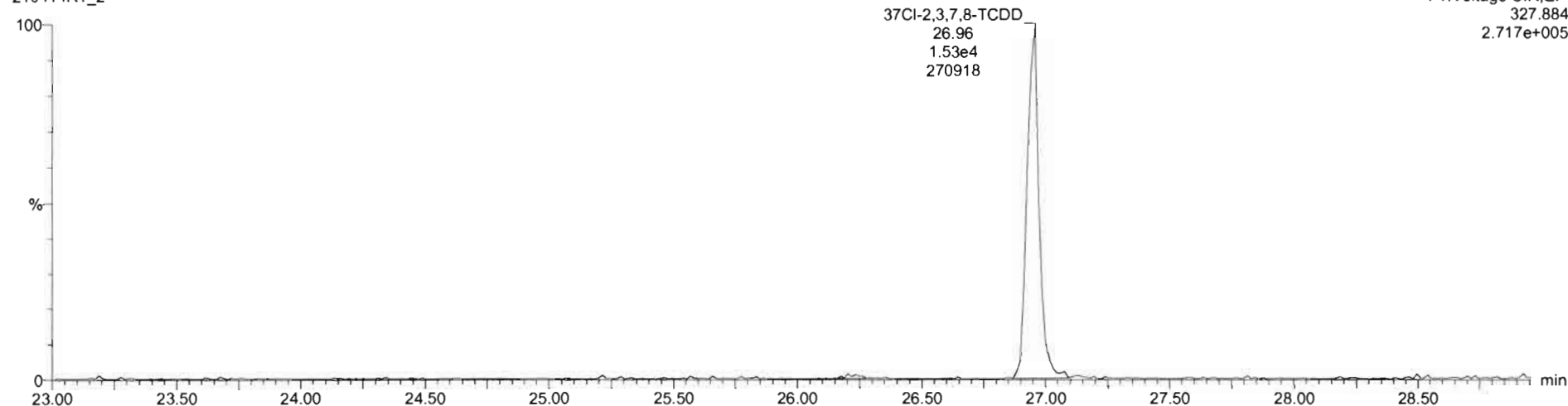
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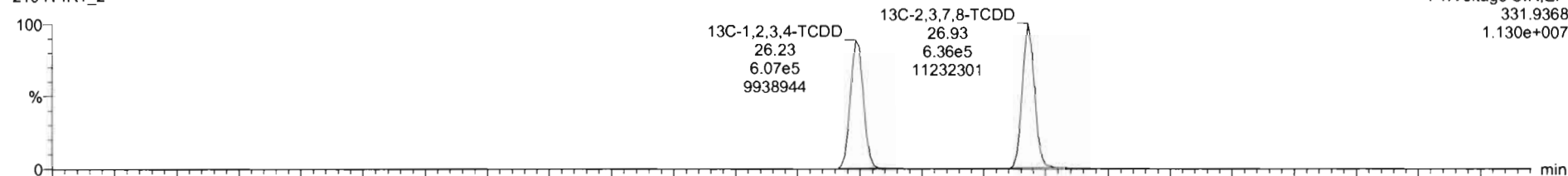
1st Func. Penta-Furans

DPE6
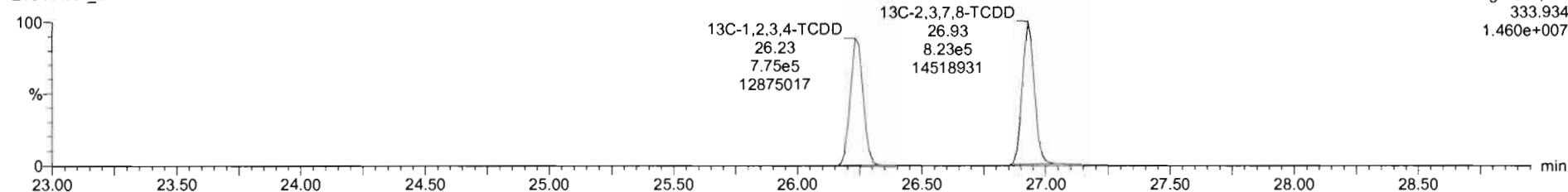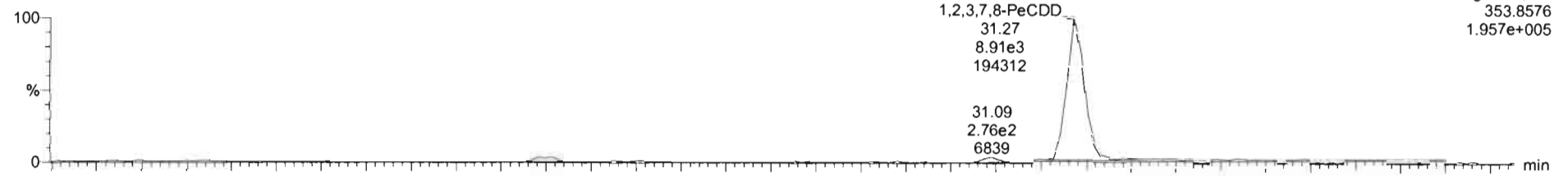
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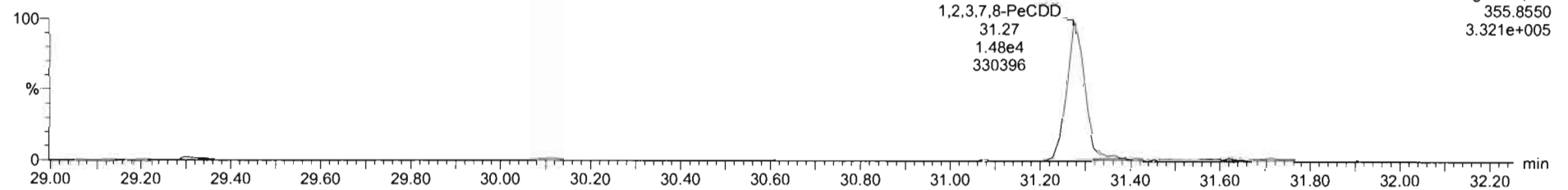Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_1, Date: 14-Apr-2021, Time: 09:44:53, ID: ST210414R1-1 1613 CS0 21D0706, Description: 1613 CS0 21D0706

1,2,3,7,8-PeCDF

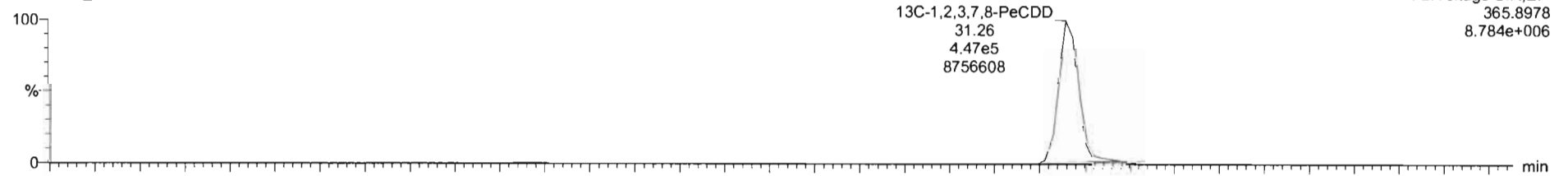

13C-1,2,3,7,8-PeCDF

DPE2

File   Edit   View   Display   Processing   Window   Help

210414R1_1 - ST210414R1-1 1613 CS0 21D0706 - 1613 CS0 21D0706

#	Name	RT	RA	y/n	Area	IS Area	Std Conc	%Dev	%RSD	RRF M.	RRF SD
1	2,3,7,8-TCDD	26.94	0.693	NO	2.8075e3	1.3106e6	0.250	-7.8	8.93	0.929	0.0829
2	1,2,3,7,8-PeCDD	31.27	0.677	NO	1.0318e4	1.0270e6	1.250	-2.7	5.84	0.826	0.0482
3	1,2,3,4,7,8-HxCDD	34.61	1.233	NO	7.3941e3	6.5523e5	1.250	-7.2	8.87	0.972	0.0863
4	1,2,3,6,7,8-HxCDD	34.73	1.134	NO	8.0483e3	7.4877e5	1.250	-2.0	6.38	0.877	0.0560
5	1,2,3,7,8,9-HxCDD	35.03	1.217	NO	7.6564e3	7.4924e5	1.250	-6.5	8.86	0.874	0.0774
6	1,2,3,4,6,7,8-HpCDD	38.31	1.021	NO	6.5478e3	6.0817e5	1.250	-4.2	7.53	0.899	0.0677
7	OCDD	41.31	0.858	NO	1.1058e4	1.0908e6	2.500	-4.9	7.48	0.852	0.0638
8	2,3,7,8-TCDF	26.35	0.790	NO	3.8680e3	2.1654e6	0.250	-4.3	9.29	0.747	0.0693
9	1,2,3,7,8-PeCDF	30.10	1.521	NO	1.3395e4	1.3567e6	1.250	-9.9	8.18	0.877	0.0718
10	2,3,4,7,8-PeCDF	31.09	1.483	NO	1.6882e4	1.4573e6	1.250	-3.8	7.01	0.962	0.0675
11	1,2,3,4,7,8-HxCDF	33.67	1.172	NO	1.1296e4	1.0627e6	1.250	-7.6	8.23	0.920	0.0758
12	1,2,3,6,7,8-HxCDF	33.81	1.248	NO	1.1920e4	1.1097e6	1.250	-8.2	7.76	0.936	0.0727
13	2,3,4,6,7,8-HxCDF	34.50	1.224	NO	9.5902e3	8.6242e5	1.250	-8.5	8.41	0.973	0.0818

210414R1_1
1613 CS0 21D0706 ST210414R1-1 1613 CS0 21D0706

F2 Voltage SIR EI+
339.860
1.867e+005

2,3,4,7,8-PeCDF;31.09;10070.61;185605

210414R1_1
1613 CS0 21D0706 ST210414R1-1 1613 CS0 21D0706

F2 Voltage SIR EI+
341.857
1.278e+005

2,3,4,7,8-PeCDF;31.09;8791.10;125974

2,3,4,7,8-PeCDF
31.09
8791.10
125974

31.62

210414R1_1
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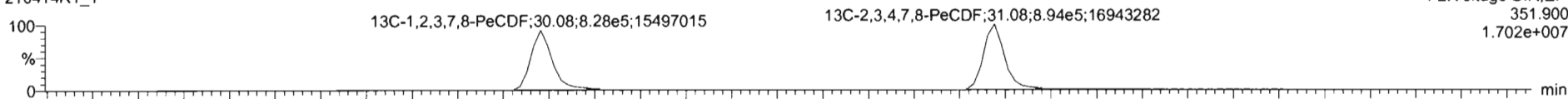
F2 Voltage SIR EI+
351.900
1.702e+007

13C-2,3,4,7,8-PeCDF;31.08;894008.69;16943282

210414R1_1
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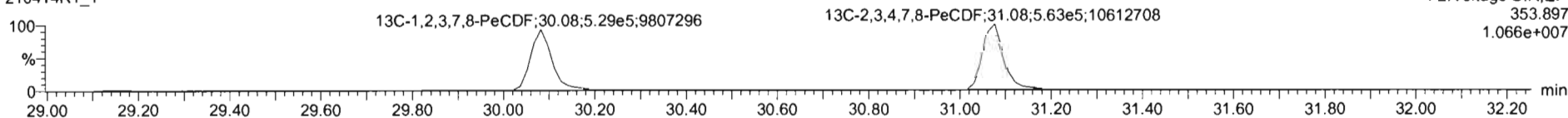
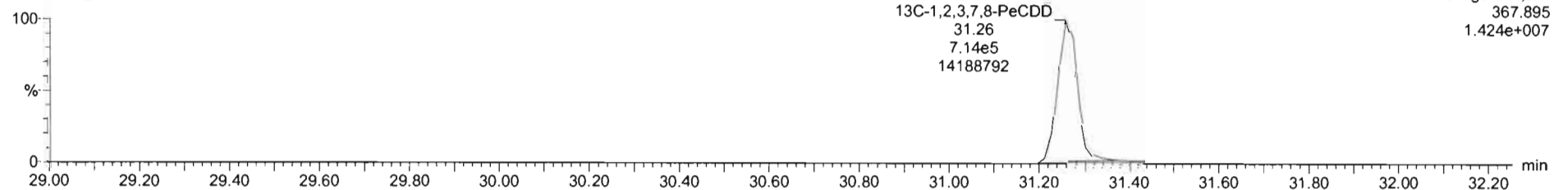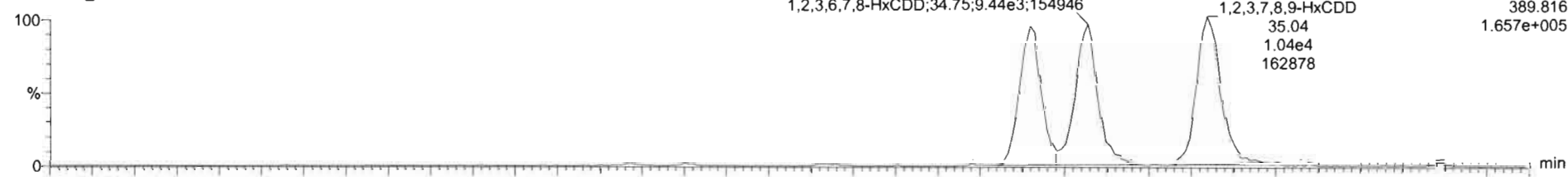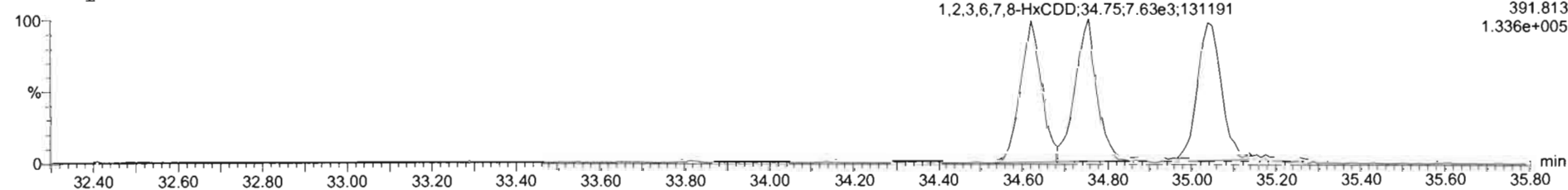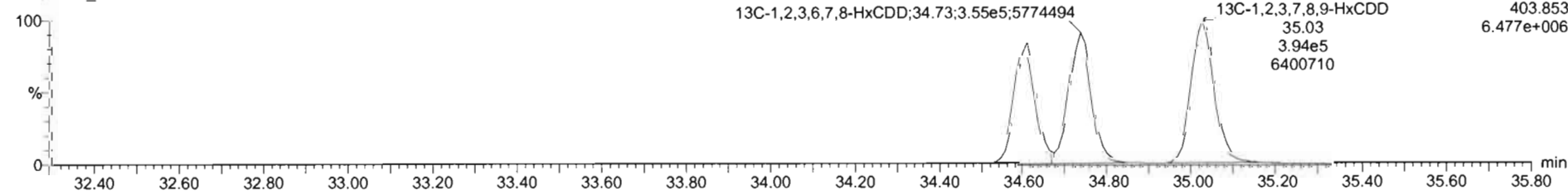F2 Voltage SIR EI+
353.897
1.066e+007

13C-2,3,4,7,8-PeCDF;31.08;563248.81;10612708
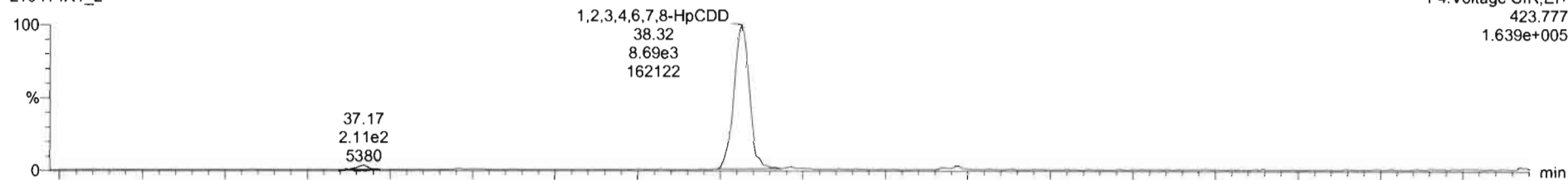
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Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time
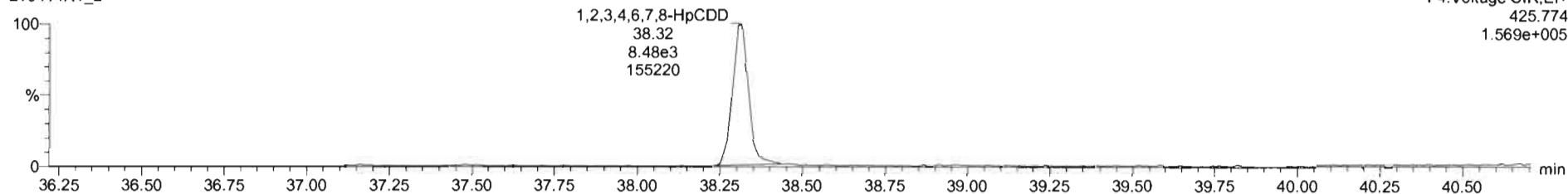
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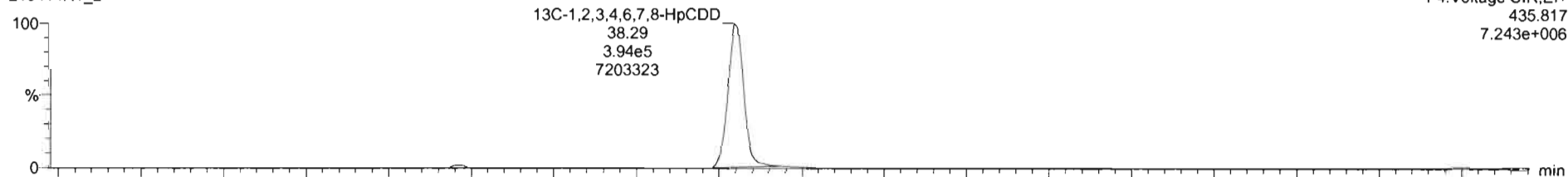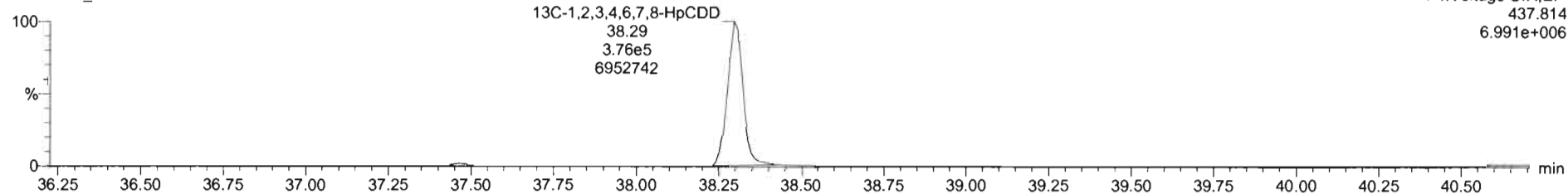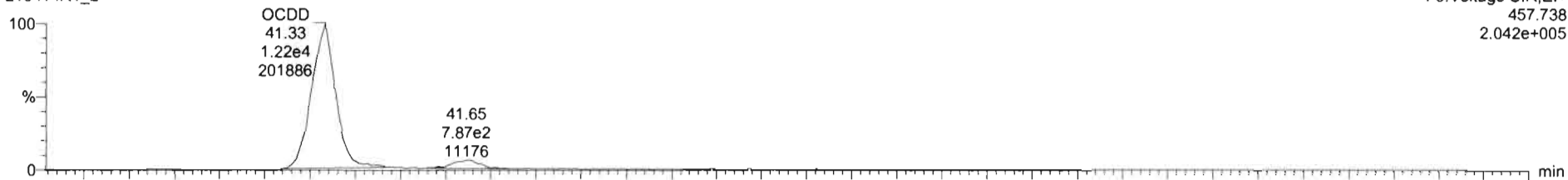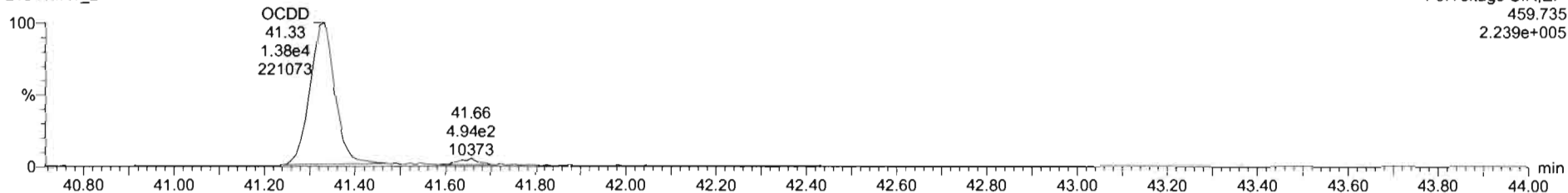
1,2,3,4,7,8-HxCDF

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

DPE3

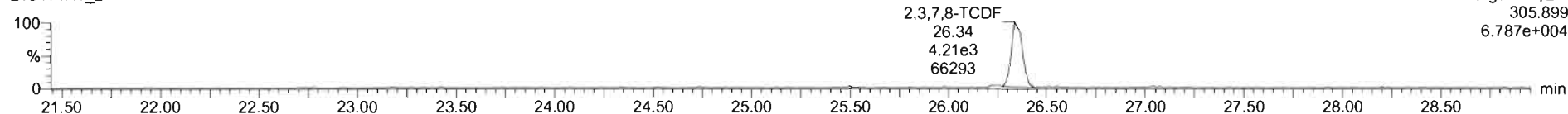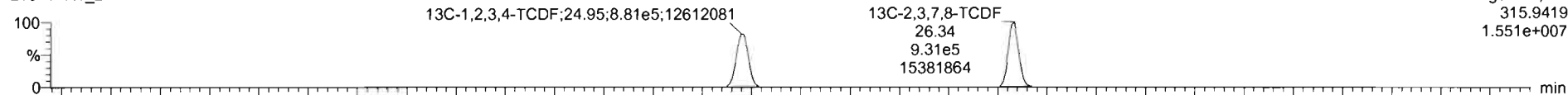| #	Name	RT	RA	y/n	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	2,3,7,8-TCDD	26.94	0.693	NO	2.8075e3	1.3106e6	0.250	-7.8	8.93	0.929	0.0829
2	1,2,3,7,8-PeCDD	31.27	0.677	NO	1.0318e4	1.0270e6	1.250	-2.7	5.84	0.826	0.0482
3	1,2,3,4,7,8-HxCDD	34.61	1.233	NO	7.3941e3	6.5523e5	1.250	-7.2	8.87	0.972	0.0863
4	1,2,3,6,7,8-HxCDD	34.73	1.134	NO	8.0483e3	7.4877e5	1.250	-2.0	6.38	0.877	0.0560
5	1,2,3,7,8,9-HxCDD	35.03	1.217	NO	7.6564e3	7.4924e5	1.250	-6.5	8.86	0.874	0.0774
6	1,2,3,4,6,7,8-HpCDD	38.31	1.021	NO	6.5478e3	6.0817e5	1.250	-4.2	7.53	0.899	0.0677
7	OCDD	41.31	0.858	NO	1.1058e4	1.0908e6	2.500	-4.9	7.48	0.852	0.0638
8	2,3,7,8-TCDF	26.35	0.790	NO	3.8680e3	2.1654e6	0.250	-4.3	9.29	0.747	0.0693
9	1,2,3,7,8-PeCDF	30.10	1.521	NO	1.3395e4	1.3567e6	1.250	-9.9	8.18	0.877	0.0718
10	2,3,4,7,8-PeCDF	31.09	1.483	NO	1.6862e4	1.4573e6	1.250	-3.8	7.01	0.962	0.0675
11	1,2,3,4,7,8-HxCDF	33.67	1.172	NO	1.1296e4	1.0627e6	1.250	-7.6	8.23	0.920	0.0758
12	1,2,3,6,7,8-HxCDF	33.81	1.248	NO	1.1920e4	1.1097e6	1.250	-8.2	7.76	0.936	0.0727
13	2,3,4,6,7,8-HxCDF	34.50	1.224	NO	9.5902e3	8.6242e5	1.250	-6.5	8.41	0.973	0.0818

210414R1_1
1613 CS0 21D0706 ST210414R1-1 1613 CS0 21D0706
F3:Voltage SIR,EI+
373.821
8.166e+004
2,3,4,6,7,8-HxCDF;34.50;5278.84;80745

210414R1_1
1613 CS0 21D0706 ST210414R1-1 1613 CS0 21D0706
F3:Voltage SIR,EI+
375.818
6.622e+004
2,3,4,6,7,8-HxCDF;34.50;4311.39;65435

210414R1_1
1613 CS0 21D0706 ST210414R1-1 1613 CS0 21D0706
F3:Voltage SIR,EI+
383.864
4.501e+006
13C-2,3,4,6,7,8-HxCDF;34.48;290665.00;4457524

210414R1_1
1613 CS0 21D0706 ST210414R1-1 1613 CS0 21D0706
F3:Voltage SIR,EI+
385.861
8.839e+006
13C-2,3,4,6,7,8-HxCDF;34.48;571757.81;8763019

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210414R1_1   ST210414R1-1 1613 CS0 21D0706   1613 CS0 21D0706

#	Name	RT	RA	y/n	Area	IS Area	Std Conc	%Dev	%RSD	RRF M	RRF SD
14	1,2,3,7,8,9-HxCDF	35.59	1.155	NO	9.3601e3	8.3529e5	1.250	-4.6	8.34	0.940	0.0784
15	1,2,3,4,6,7,8-HpCDF	37.17	1.018	NO	7.3127e3	6.0094e5	1.250	-7.1	8.33	1.05	0.0873
16	1,2,3,4,7,8,9-HpCDF	38.95	0.919	NO	6.4893e3	5.3180e5	1.250	-6.6	8.40	1.05	0.0879
17	OCDF	41.65	0.893	NO	1.2322e4	1.3632e6	2.500	-6.2	7.94	0.771	0.0612
18	13C-2,3,7,8-TCDD	26.91	0.781	NO	1.3106e6	1.3704e6	100.000	-13.4	8.43	1.10	0.0930
19	13C-1,2,3,7,8-PeCDD	31.24	0.636	NO	1.0270e6	1.3704e6	100.000	-13.2	10.5	0.864	0.0903
20	13C-1,2,3,4,7,8-HxCDD	34.59	1.283	NO	6.5523e5	9.7746e5	100.000	-10.2	8.73	0.746	0.0651
21	13C-1,2,3,6,7,8-HxCDD	34.72	1.294	NO	7.4877e5	9.7746e5	100.000	-9.5	9.12	0.847	0.0773
22	13C-1,2,3,7,8,9-HxCDD	35.02	1.259	NO	7.4924e5	9.7746e5	100.000	-11.7	8.65	0.868	0.0751
23	13C-1,2,3,4,6,7,8-HpCDD	38.28	1.036	NO	6.0817e6	9.7746e5	100.000	-6.3	10.1	0.664	0.0671
24	13C-OCDD	41.30	0.918	NO	1.0908e6	9.7746e5	200.000	-0.5	9.52	0.561	0.0534
25	13C-2,3,7,8-TCDF	26.32	0.769	NO	2.1654e6	1.7790e6	100.000	11.3	5.78	1.09	0.0632
26	13C-1,2,3,7,8-PeCDF	30.08	1.565	NO	1.3567e6	1.7790e6	100.000	-5.8	6.47	0.809	0.0524

210414R1_1
1613 CS0 21D0706 ST210414R1-1 1613 CS0 21D0706
F3:Voltage SIR,EI+
373.821
6.703e+004
1,2,3,7,8,9-HxCDF;35.59;5015.99;65927

210414R1_1
1613 CS0 21D0706 ST210414R1-1 1613 CS0 21D0706
F3:Voltage SIR,EI+
375.818
6.096e+004
1,2,3,7,8,9-HxCDF;35.58;4344.13;60205

210414R1_1
1613 CS0 21D0706 ST210414R1-1 1613 CS0 21D0706
F3:Voltage SIR,EI+
383.864
3.757e+006
13C-1,2,3,7,8,9-HxCDF;35.58;281769.84;3747944

210414R1_1
1613 CS0 21D0706 ST210414R1-1 1613 CS0 21D0706
F3:Voltage SIR,EI+
385.861
7.112e+006
13C-1,2,3,7,8,9-HxCDF;35.58;553524.19;7096885
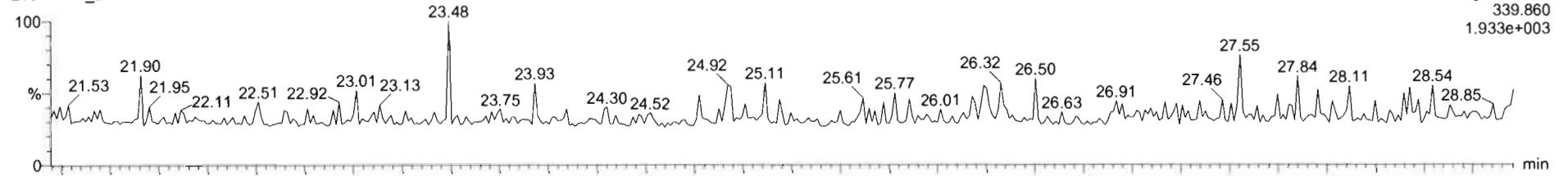
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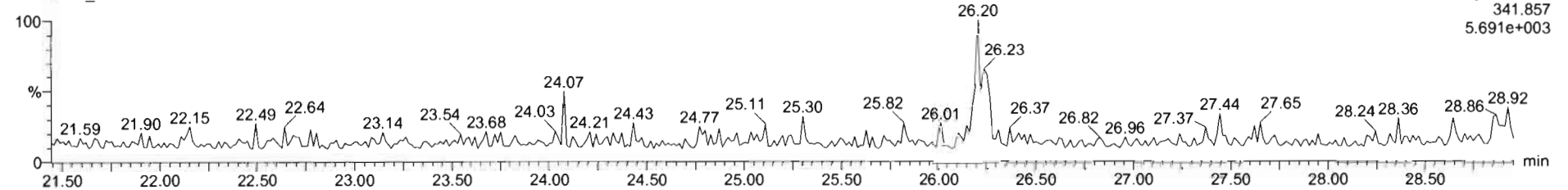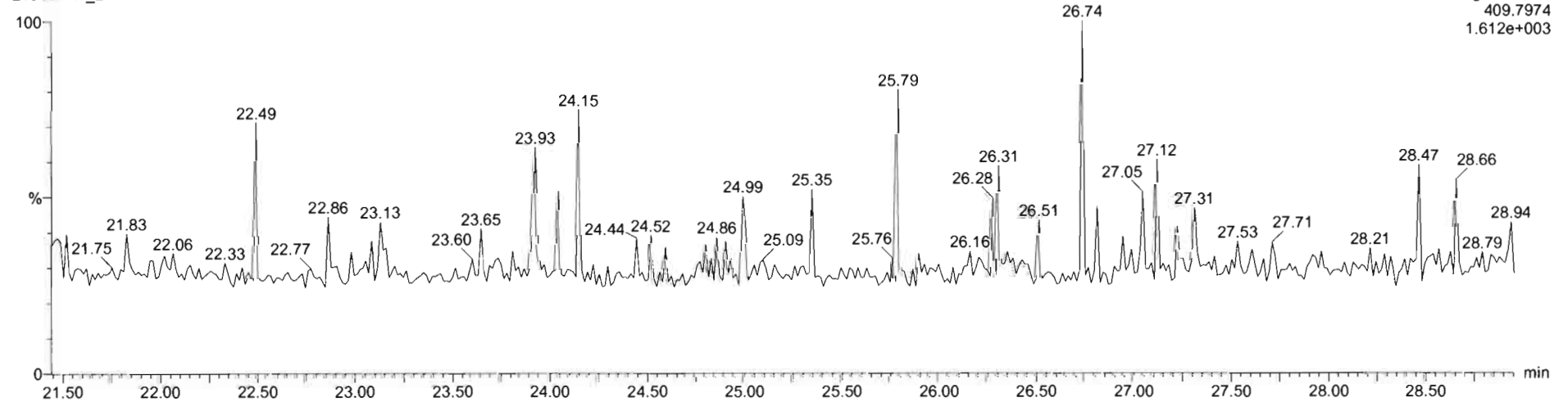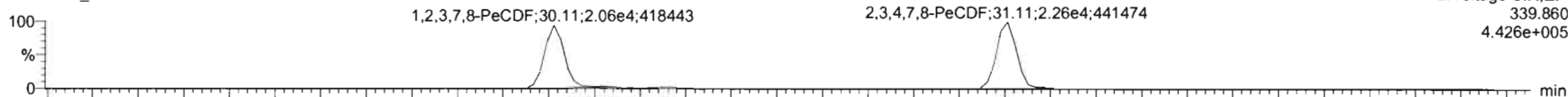Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

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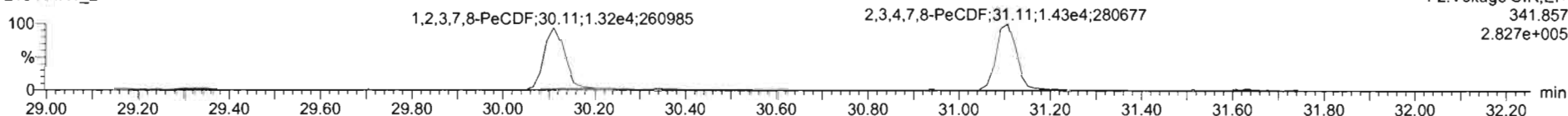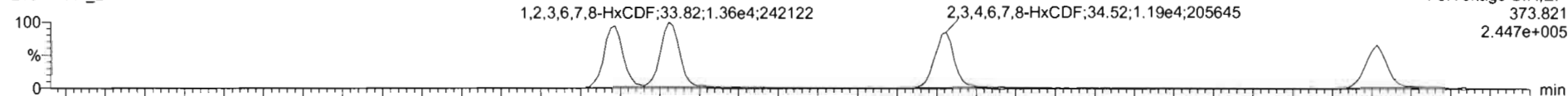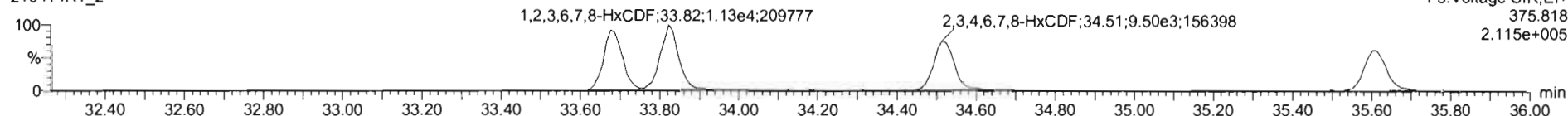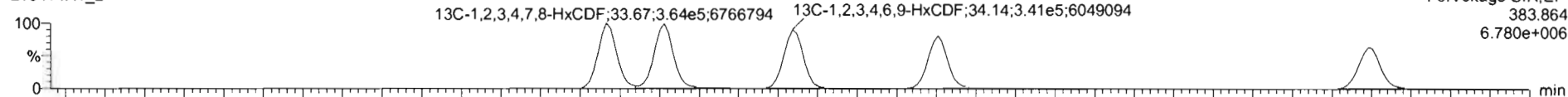
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13C-1,2,3,4,6,7,8-HpCDF

DPE4

#	Name	RT	RA	y/n	Area	IS Area	Std Conc	%Dev	%RSD	RRF M	RRF SD
14	1,2,3,7,8,9-HxCDF	35.59	1.155	NO	9.3601e3	8.3529e5	1.250	-4.6	8.34	0.940	0.0784
15	1,2,3,4,6,7,8-HpCDF	37.17	1.018	NO	7.3127e3	6.0094e5	1.250	-7.1	8.33	1.05	0.0873
16	1,2,3,4,7,8,9-HpCDF	38.95	0.919	NO	6.4893e3	5.3180e5	1.250	-6.6	8.40	1.05	0.0879
17	OCDF	41.65	0.893	NO	1.2322e4	1.3632e6	2.500	-6.2	7.94	0.771	0.0612
18	13C-2,3,7,8-TCDD	26.91	0.781	NO	1.3106e6	1.3704e6	100.000	-13.4	8.43	1.10	0.0930
19	13C-1,2,3,7,8-PeCDD	31.24	0.636	NO	1.0270e6	1.3704e6	100.000	-13.2	10.5	0.864	0.0903
20	13C-1,2,3,4,7,8-HxCDD	34.59	1.283	NO	6.5523e5	9.7746e5	100.000	-10.2	8.73	0.746	0.0651
21	13C-1,2,3,6,7,8-HxCDD	34.72	1.294	NO	7.4877e5	9.7746e5	100.000	-9.5	9.12	0.847	0.0773
22	13C-1,2,3,7,8,9-HxCDD	35.02	1.259	NO	7.4924e5	9.7746e5	100.000	-11.7	8.65	0.868	0.0751
23	13C-1,2,3,4,6,7,8-HpCDD	38.28	1.036	NO	6.0817e5	9.7746e5	100.000	-6.3	10.1	0.664	0.0671
24	13C-OCDD	41.30	0.918	NO	1.0908e6	9.7746e5	200.000	-0.5	9.52	0.561	0.0534
25	13C-2,3,7,8-TCDF	26.32	0.769	NO	2.1654e6	1.7790e6	100.000	11.3	5.78	1.09	0.0632
26	13C-1,2,3,7,8-PeCDF	30.08	1.565	NO	1.3567e6	1.7790e6	100.000	-5.8	6.47	0.809	0.0524

210414R1_1
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F4:Voltage SIR,EI+
407.782
5.665e+004
1,2,3,4,6,7,8-HpCDF;37.17;3889.83;55648

210414R1_1
1613 CS0 21D0706 ST210414R1-1 1613 CS0 21D0706
F4:Voltage SIR,EI+
409.779
5.410e+004
1,2,3,4,6,7,8-HpCDF;37.17;3622.83;53100
37.84

210414R1_1
1613 CS0 21D0706 ST210414R1-1 1613 CS0 21D0706
F4:Voltage SIR,EI+
417.825
2.715e+006
13C-1,2,3,4,6,7,8-HpCDF;37.16;181617.89;2701111

210414R1_1
1613 CS0 21D0706 ST210414R1-1 1613 CS0 21D0706
F4:Voltage SIR,EI+
419.822
6.142e+006
13C-1,2,3,4,6,7,8-HpCDF;37.16;419320.25;6107630

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Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_1, Date: 14-Apr-2021, Time: 09:44:53, ID: ST210414R1-1 1613 CS0 21D0706, Description: 1613 CS0 21D0706

OCDF

13C-OCDF

DPE5

File Edit View Display Processing Window Help

210414R1_1 - ST210414R1-1 1613 CS0 21D0706 - 1613 CS0 21D0706

#	Name	RT	RA	y/n	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M.	RRF SD
14	14	1,2,3,7,8,9-HxCDF	35.59	1.155	NO	8.3601e3	8.3529e5	1.250	-4.6	8.34	0.940	0.0784
15	15	1,2,3,4,6,7,8-HpCDF	37.17	1.018	NO	7.3127e3	6.0094e5	1.250	-7.1	8.33	1.05	0.0873
16	16	1,2,3,4,7,8,9-HpCDF	38.95	0.919	NO	6.4893e3	5.3180e5	1.250	-6.6	8.40	1.05	0.0879
17	17	OCDF	41.65	0.893	NO	1.2322e4	1.3632e6	2.500	-6.2	7.94	0.771	0.0612
18	18	13C-2,3,7,8-TCDD	26.91	0.781	NO	1.3106e6	1.3704e6	100.000	-13.4	8.43	1.10	0.0930
19	19	13C-1,2,3,7,8-PeCDD	31.24	0.636	NO	1.0270e6	1.3704e6	100.000	-13.2	10.5	0.864	0.0903
20	20	13C-1,2,3,4,7,8-HxCDD	34.59	1.283	NO	6.5523e5	9.7746e5	100.000	-10.2	8.73	0.746	0.0651
21	21	13C-1,2,3,6,7,8-HxCDD	34.72	1.294	NO	7.4877e5	9.7746e5	100.000	-9.5	9.12	0.847	0.0773
22	22	13C-1,2,3,7,8,9-HxCDD	35.02	1.259	NO	7.4924e5	9.7746e5	100.000	-11.7	8.65	0.868	0.0751
23	23	13C-1,2,3,4,6,7,8-HpCDD	38.28	1.036	NO	6.0817e5	9.7746e5	100.000	-8.3	10.1	0.664	0.0671
24	24	13C-OCDD	41.30	0.918	NO	1.0908e6	9.7746e5	200.000	-0.5	9.52	0.561	0.0534
25	25	13C-2,3,7,8-TCDF	26.32	0.769	NO	2.1654e6	1.7790e6	100.000	11.3	5.78	1.09	0.0632
26	26	13C-1,2,3,7,8-PeCDF	30.08	1.585	NO	1.3567e6	1.7790e6	100.000	-5.8	6.47	0.809	0.0524

210414R1_1
1613 CS0 21D0706 ST210414R1-1 1613 CS0 21D0706

F5:Voltage SIR,EI+
441.743
7.811e+004

OCDF;41.65;5812.19;76344

41.96

210414R1_1
1613 CS0 21D0706 ST210414R1-1 1613 CS0 21D0706

F5:Voltage SIR,EI+
443.740
8.929e+004

OCDF;41.66;8510.01;87409

210414R1_1
1613 CS0 21D0706 ST210414R1-1 1613 CS0 21D0706

F5:Voltage SIR,EI+
453.7831
8.520e+006

13C-OCDF;41.64;644798.31;8468422

210414R1_1
1613 CS0 21D0706 ST210414R1-1 1613 CS0 21D0706

F5:Voltage SIR,EI+
455.780
9.633e+006

13C-OCDF;41.64;758393.94;9552558

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_1, Date: 14-Apr-2021, Time: 09:44:53, ID: ST210414R1-1 1613 CS0 21D0706, Description: 1613 CS0 21D0706

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_2, Date: 14-Apr-2021, Time: 10:37:34, ID: ST210414R1-2 1613 CS1 21D0707, Description: 1613 CS1 21D0707

2,3,7,8-TCDD

210414R1_2   F1:Voltage SIR,EI+
                                                          2,3,7,8-TCDD   319.8965
100   26.96   5.056e+004
                                                          3.05e3
%   49498

                                 24.92   26.34
0
                                                                                           min
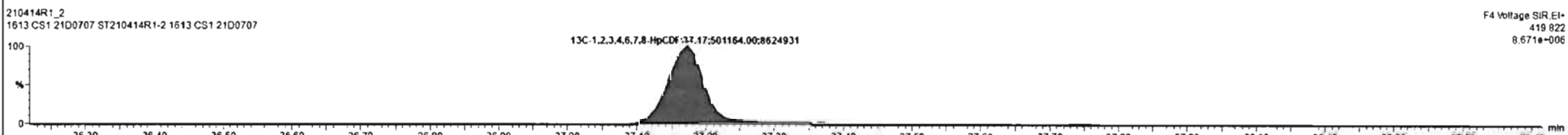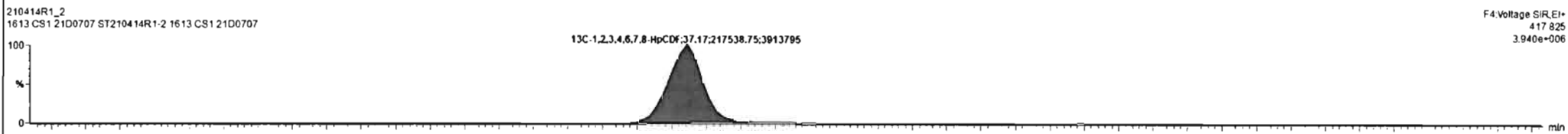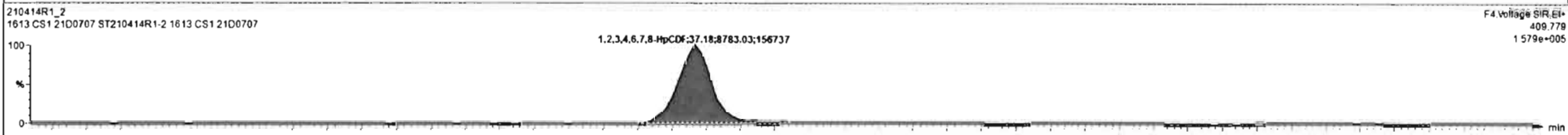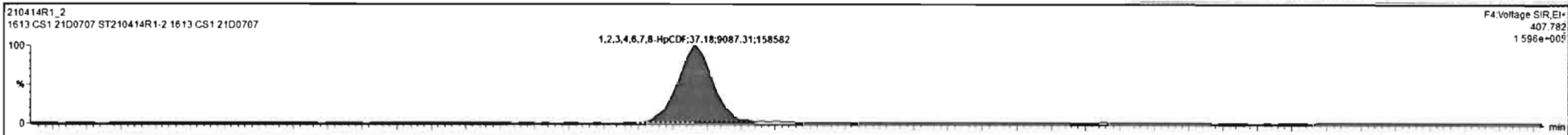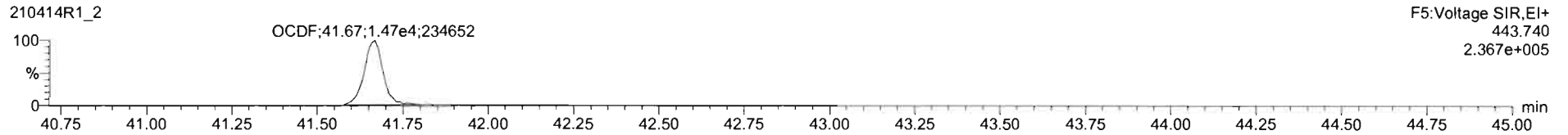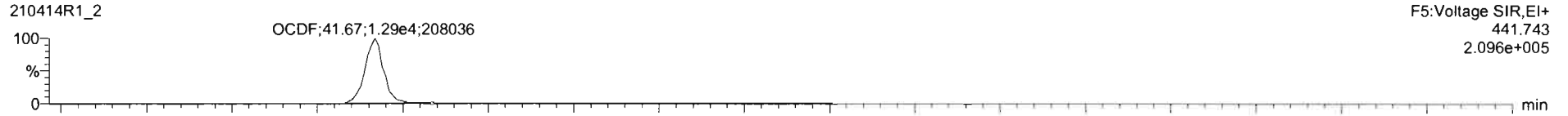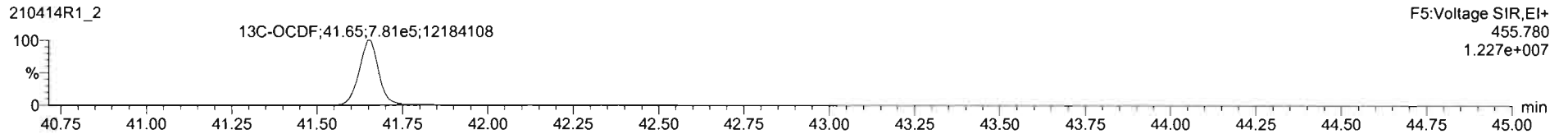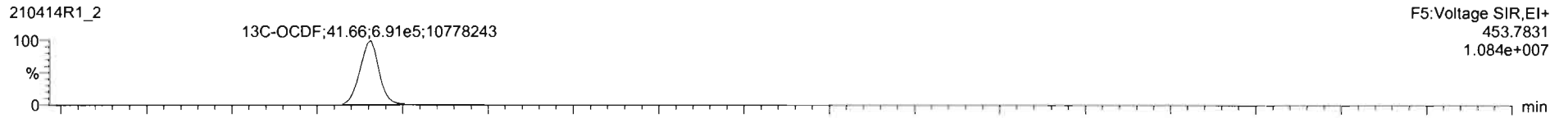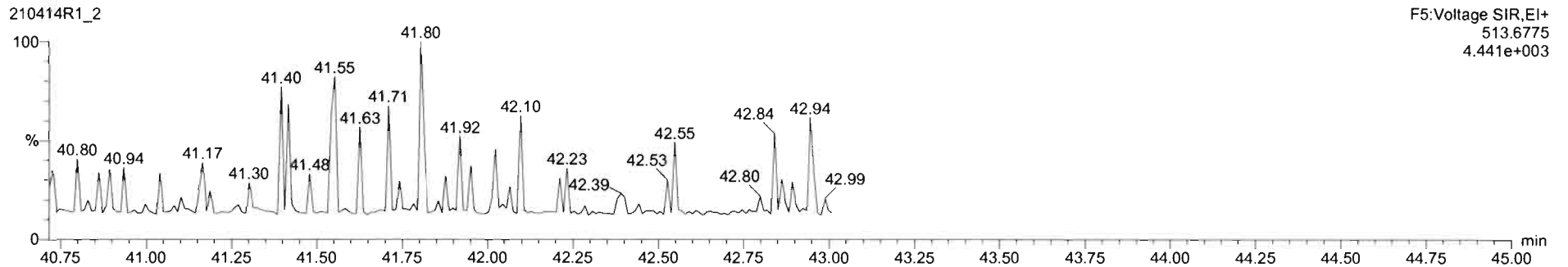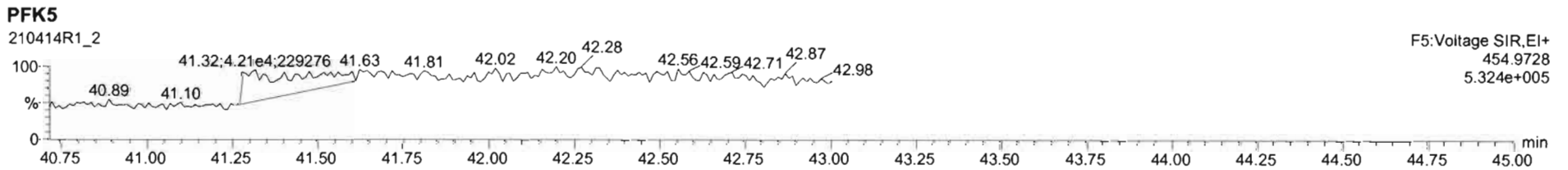
210414R1_2   F1:Voltage SIR,EI+
                                                          2,3,7,8-TCDD   321.894
100   26.96   6.468e+004
                                                          3.76e3
%   63662

0
    23.00   23.50   24.00   24.50   25.00   25.50   26.00   26.50   27.00   27.50   28.00   28.50   min

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

210414R1_2   F1:Voltage SIR,EI+
                                                                                           331.9368
100   13C-1,2,3,4-TCDD   13C-2,3,7,8-TCDD   1.130e+007
                                     26.23   26.93
                                     6.07e5   6.36e5
%   9938944   11232301

0
                                                                                           min

210414R1_2   F1:Voltage SIR,EI+
                                                                                           333.934
100   13C-1,2,3,4-TCDD   13C-2,3,7,8-TCDD   1.460e+007
                                     26.23   26.93
                                     7.75e5   8.23e5
%   12875017   14518931

0
    23.00   23.50   24.00   24.50   25.00   25.50   26.00   26.50   27.00   27.50   28.00   28.50   min

#	Name	RT	RA	y/n	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M.	RRF SD
1	2,3,7,8-TCDD	26.96	0.821	NO	6.8703e3	1.4587e6	0.500	1.4	8.93	0.929	0.0829
2	1,2,3,7,8-PeCDD	31.27	0.601	NO	2.3749e4	1.1607e6	2.500	-0.9	5.84	0.826	0.0482
3	1,2,3,4,7,8-HxCDD	34.82	1.227	NO	1.6474e4	7.1077e5	2.500	-4.7	8.87	0.972	0.0863
4	1,2,3,6,7,8-HxCDD	34.76	1.238	NO	1.7068e4	8.0285e5	2.500	-3.0	6.38	0.877	0.0560
5	1,2,3,7,8,9-HxCDD	35.04	1.292	NO	1.8427e4	8.9031e5	2.500	-5.3	8.86	0.874	0.0774
6	1,2,3,4,6,7,8-HpCDD	38.32	1.024	NO	1.7166e4	7.7045e5	2.500	-0.8	7.53	0.899	0.0677
7	OCDD	41.33	0.885	NO	2.5970e4	1.2727e6	5.000	-4.2	7.48	0.852	0.0638
8	2,3,7,8-TCDF	26.35	0.713	NO	7.3380e3	2.1336e6	0.500	-7.9	9.29	0.747	0.0693
9	1,2,3,7,8-PeCDF	30.11	1.549	NO	3.3701e4	1.5774e6	2.500	-2.6	8.18	0.877	0.0718
10	2,3,4,7,8-PeCDF	31.11	1.579	NO	3.6894e4	1.6094e6	2.500	-4.7	7.01	0.962	0.0675
11	1,2,3,4,7,8-HxCDF	33.69	1.183	NO	2.3321e4	1.0641e6	2.500	-4.7	8.23	0.920	0.0758
12	1,2,3,6,7,8-HxCDF	33.82	1.211	NO	2.4894e4	1.1017e6	2.500	-3.5	7.76	0.936	0.0727
13	2,3,4,6,7,8-HxCDF	34.52	1.248	NO	2.1357e4	9.2017e5	2.500	-4.5	6.41	0.973	0.0818

210414R1_2
1613 CS1 21D0707 ST210414R1-2 1613 CS1 21D0707
F1 Voltage SIR,EI+
319.8965
5.056e+004
2,3,7,8-TCDD;26.96;3096.99;49754

210414R1_2
1613 CS1 21D0707 ST210414R1-2 1613 CS1 21D0707
F1 Voltage SIR,EI+
321.894
6.468e+004
2,3,7,8-TCDD;26.96;3773.31;63987

210414R1_2
1613 CS1 21D0707 ST210414R1-2 1613 CS1 21D0707
F1 Voltage SIR,EI+
331.9368
1.130e+007
13C-2,3,7,8-TCDD
26.93
635617.25
11232301
26.23

210414R1_2
1613 CS1 21D0707 ST210414R1-2 1613 CS1 21D0707
F1 Voltage SIR,EI+
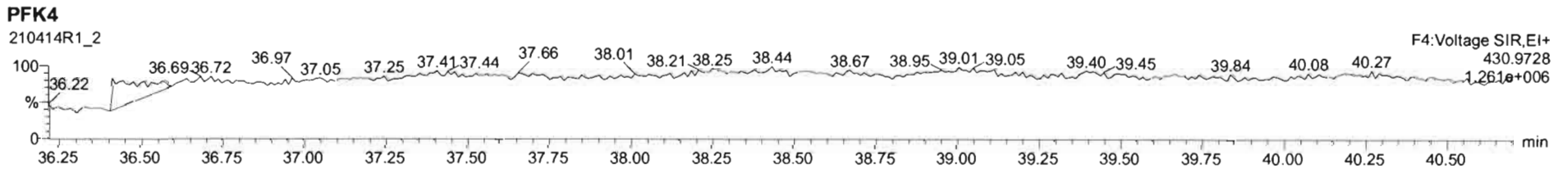333.934
1.460e+007
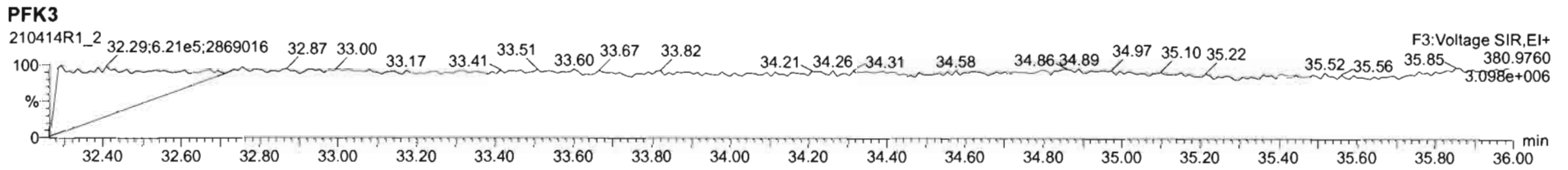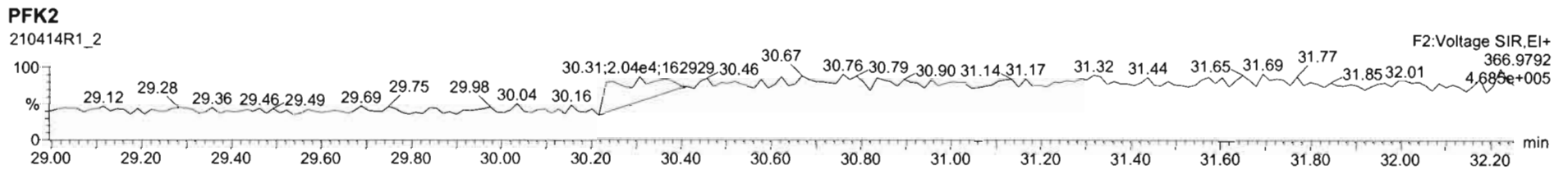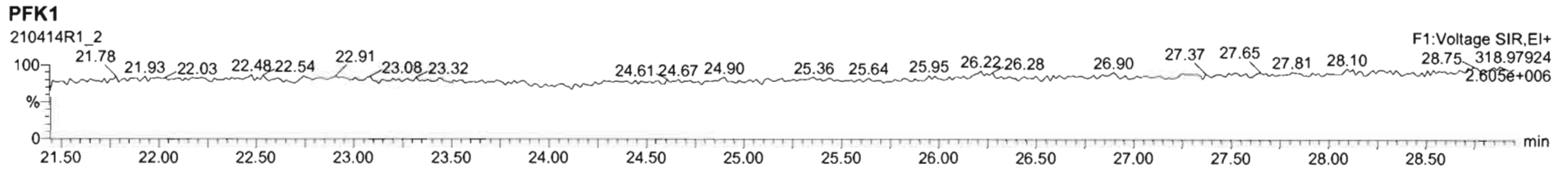13C-2,3,7,8-TCDD
26.93
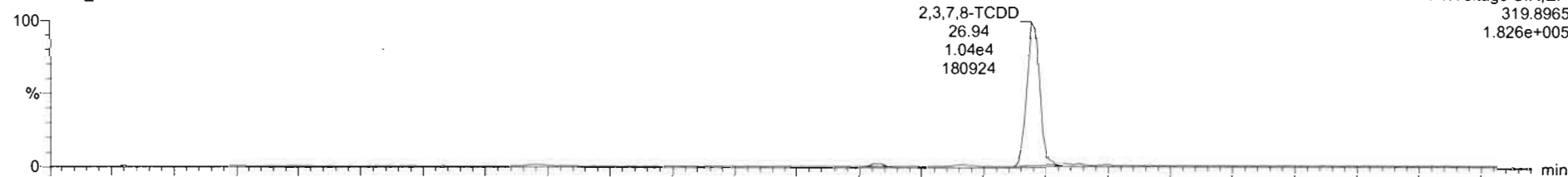823085.88
14518931
26.23

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
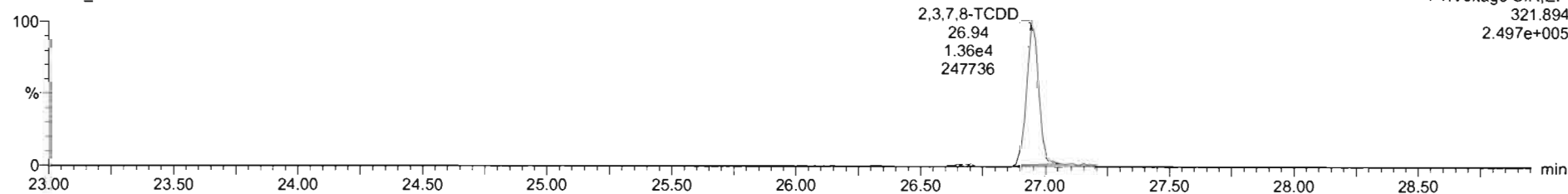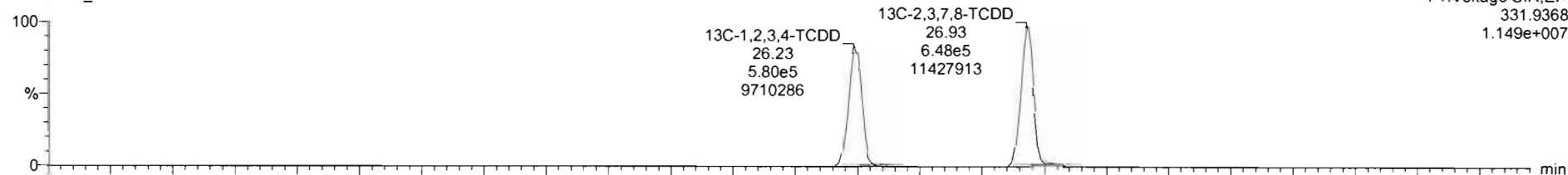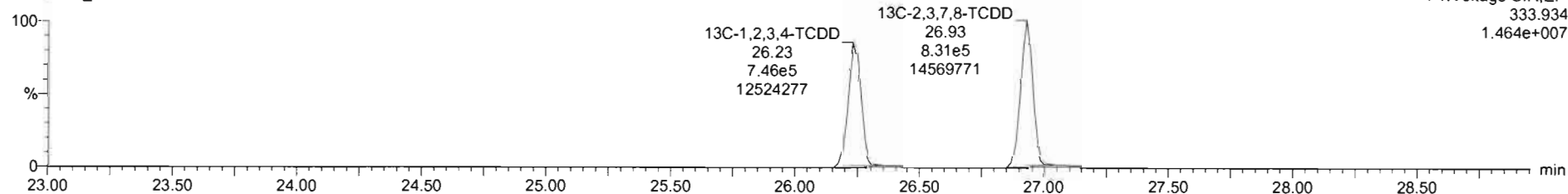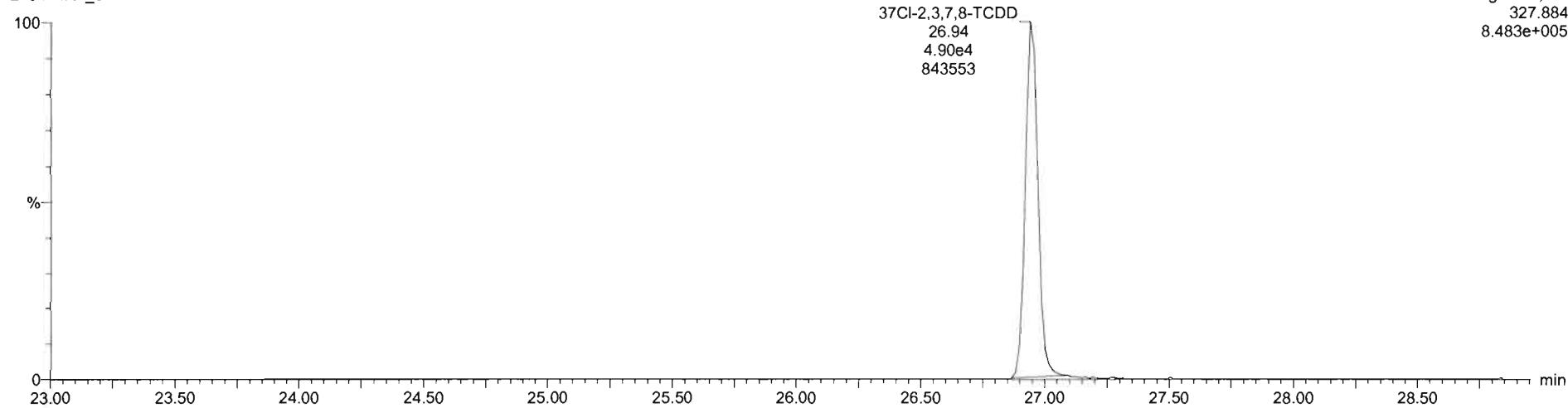Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

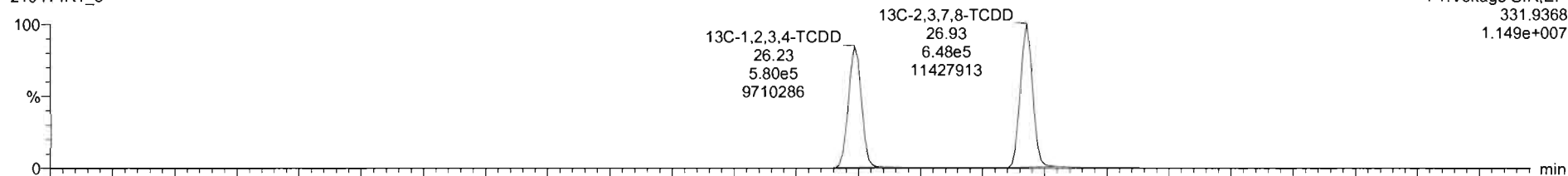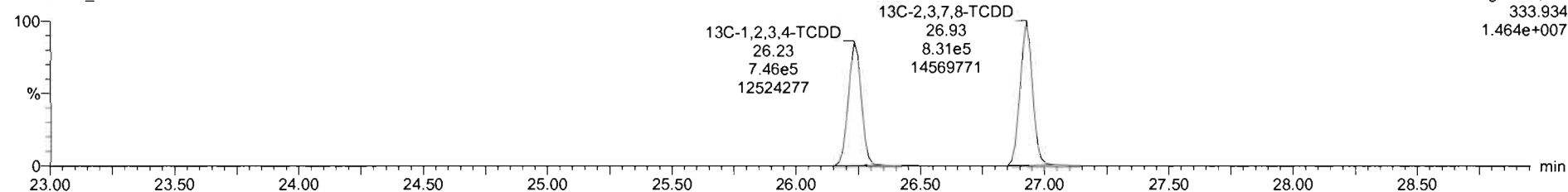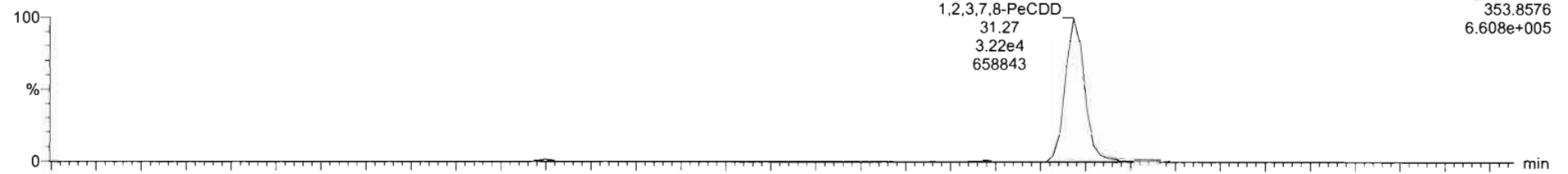**Name: 210414R1_2, Date: 14-Apr-2021, Time: 10:37:34, ID: ST210414R1-2 1613 CS1 21D0707, Description: 1613 CS1 21D0707**

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

210414R1_2

F1:Voltage SIR,EI+
327.884
2.717e+005

37Cl-2,3,7,8-TCDD
26.96
1.53e4
270918

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

210414R1_2

F1:Voltage SIR,EI+
331.9368
1.130e+007

13C-1,2,3,4-TCDD
26.23
6.07e5
9938944

13C-2,3,7,8-TCDD
26.93
6.36e5
11232301

210414R1_2

F1:Voltage SIR,EI+
333.934
1.460e+007

13C-1,2,3,4-TCDD
26.23
7.75e5
12875017

13C-2,3,7,8-TCDD
26.93
8.23e5
14518931

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
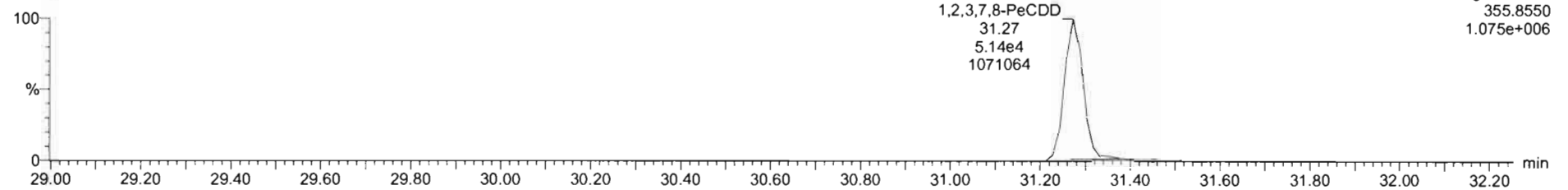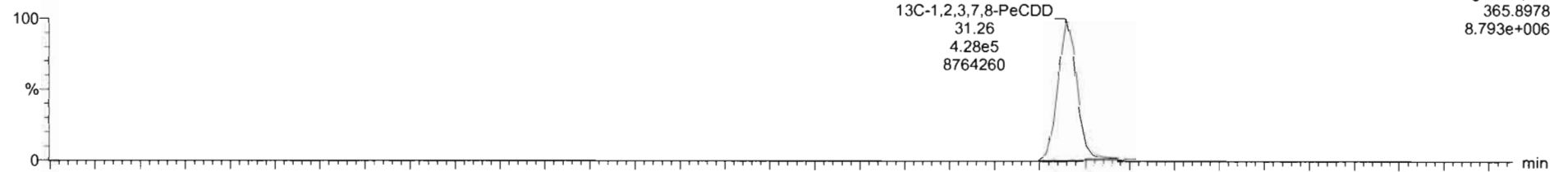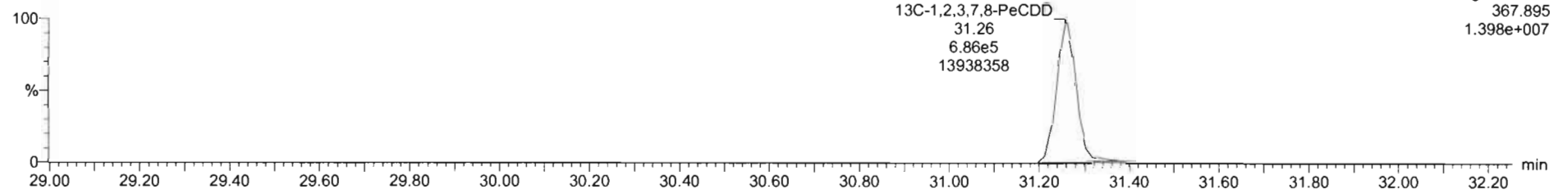Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_2, Date: 14-Apr-2021, Time: 10:37:34, ID: ST210414R1-2 1613 CS1 21D0707, Description: 1613 CS1 21D0707

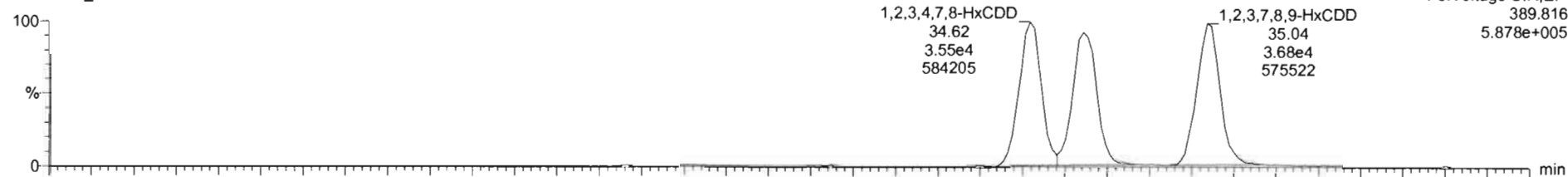**1,2,3,7,8-PeCDD**

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_2, Date: 14-Apr-2021, Time: 10:37:34, ID: ST210414R1-2 1613 CS1 21D0707, Description: 1613 CS1 21D0707

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

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

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
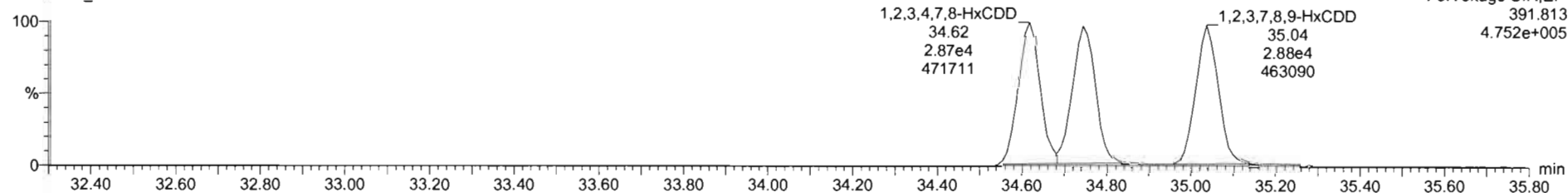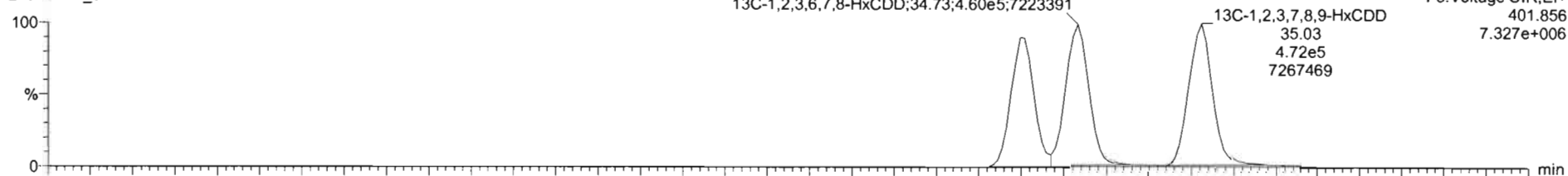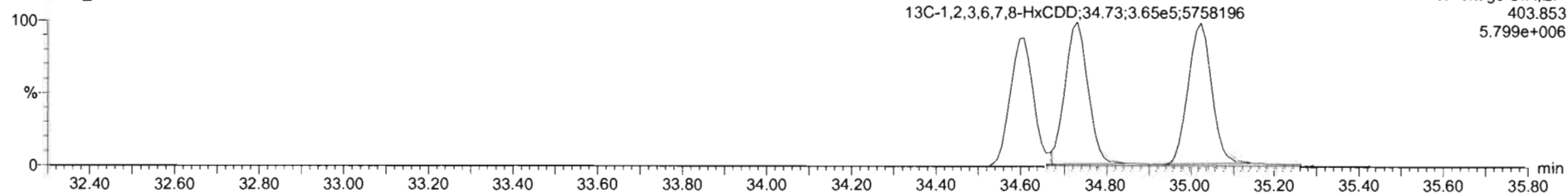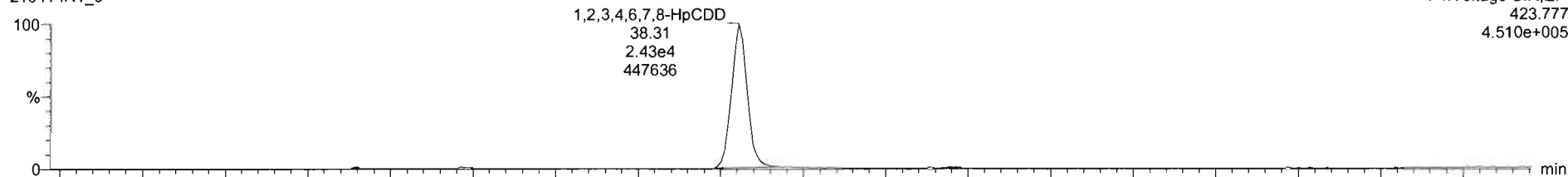Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_2, Date: 14-Apr-2021, Time: 10:37:34, ID: ST210414R1-2 1613 CS1 21D0707, Description: 1613 CS1 21D0707

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

210414R1_2   F4:Voltage SIR,EI+
                                                                                                                    423.777
100   1,2,3,4,6,7,8-HpCDD   1.639e+005
                                               38.32
                                               8.69e3
%   162122
            37.17
            2.11e2
            5380
0   min

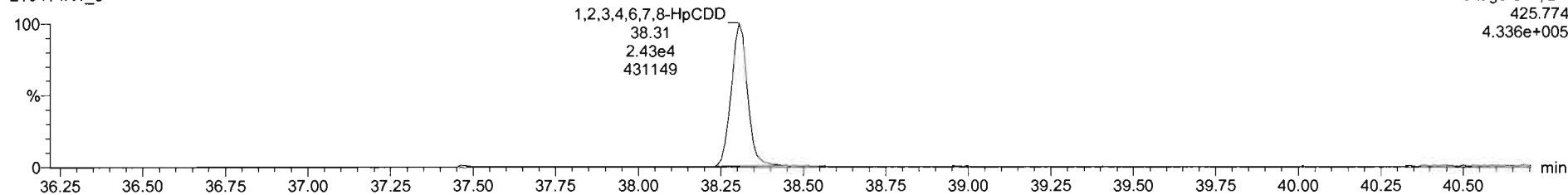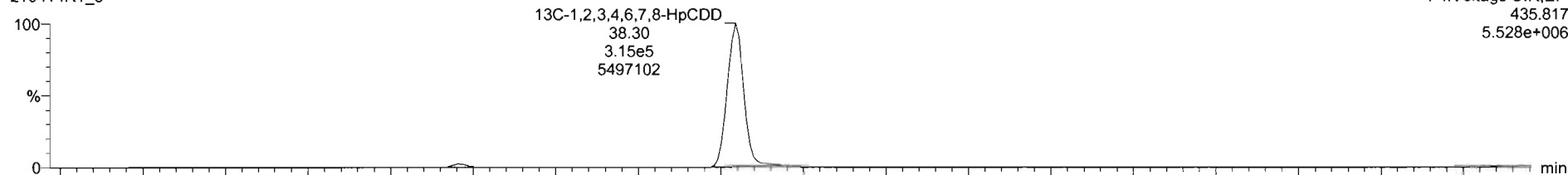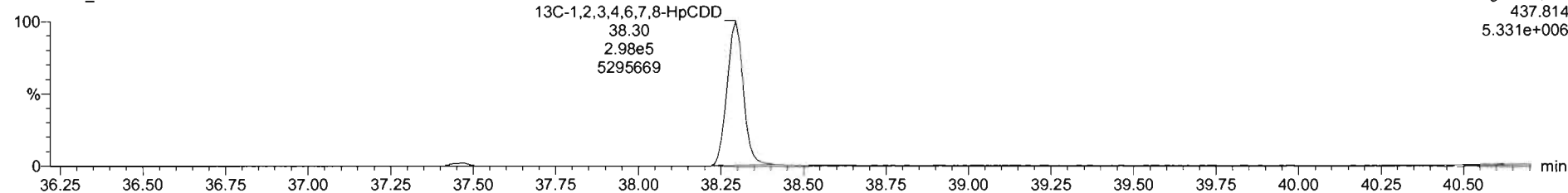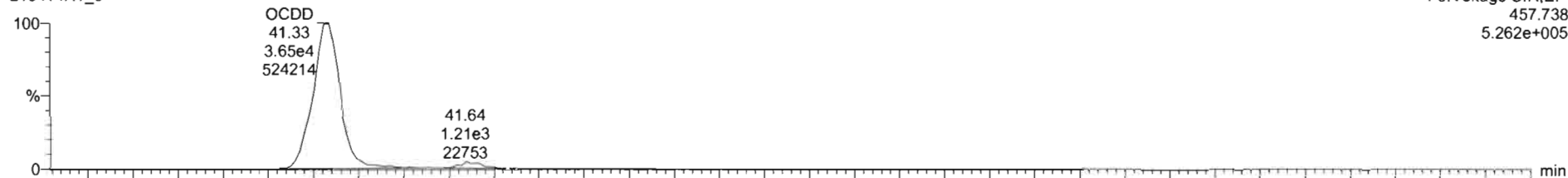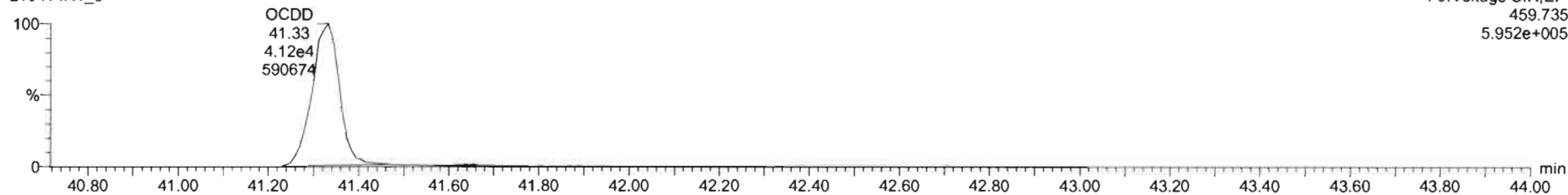210414R1_2   F4:Voltage SIR,EI+
                                                                                                                    425.774
100   1,2,3,4,6,7,8-HpCDD   1.569e+005
                                               38.32
                                               8.48e3
%   155220

0   min
  36.25 36.50 36.75 37.00 37.25 37.50 37.75 38.00 38.25 38.50 38.75 39.00 39.25 39.50 39.75 40.00 40.25 40.50

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

210414R1_2   F4:Voltage SIR,EI+
                                                                                                                    435.817
100   13C-1,2,3,4,6,7,8-HpCDD   7.243e+006
                                               38.29
                                               3.94e5
%   7203323

0   min

210414R1_2   F4:Voltage SIR,EI+
                                                                                                                    437.814
100   13C-1,2,3,4,6,7,8-HpCDD   6.991e+006
                                               38.29
                                               3.76e5
%   6952742

0   min
  36.25 36.50 36.75 37.00 37.25 37.50 37.75 38.00 38.25 38.50 38.75 39.00 39.25 39.50 39.75 40.00 40.25 40.50

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_2, Date: 14-Apr-2021, Time: 10:37:34, ID: ST210414R1-2 1613 CS1 21D0707, Description: 1613 CS1 21D0707

OCDD

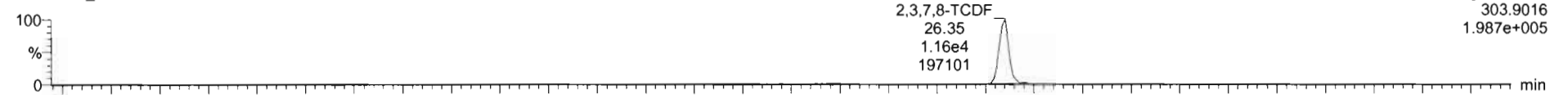**13C-OCDD**

Dataset: Untitled

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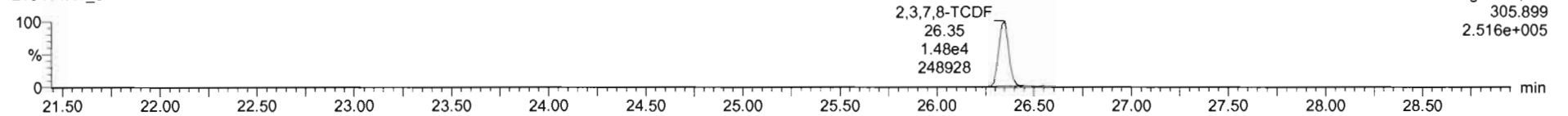**Name: 210414R1_2, Date: 14-Apr-2021, Time: 10:37:34, ID: ST210414R1-2 1613 CS1 21D0707, Description: 1613 CS1 21D0707**

2,3,7,8-TCDF

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

DPE1

Targetl.yrox - 210414R1_CRV.qld - [Chromatogram]

File   Edit   View   Display   Processing   Window   Help

| #	Name	RT	RA	y/n	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M	RRF SD
1	2,3,7,8-TCDD	26.96	0.821	NO	6.8703e3	1.4587e6	0.500	1.4	8.93	0.929	0.0829
2	1,2,3,7,8-PeCDD	31.27	0.601	NO	2.3749e4	1.1607e6	2.500	-0.9	5.84	0.826	0.0482
3	1,2,3,4,7,8-HxCDD	34.62	1.227	NO	1.6474e4	7.1077e5	2.500	-4.7	8.87	0.972	0.0863
4	1,2,3,6,7,8-HxCDD	34.76	1.238	NO	1.7068e4	8.0285e5	2.500	-3.0	6.38	0.877	0.0560
5	1,2,3,7,8,9-HxCDD	35.04	1.292	NO	1.8427e4	8.9031e5	2.500	-5.3	8.86	0.874	0.0774
6	1,2,3,4,6,7,8-HpCDD	38.32	1.024	NO	1.7166e4	7.7045e5	2.500	-0.8	7.53	0.899	0.0677
7	OCDD	41.33	0.885	NO	2.5970e4	1.2727e6	5.000	-4.2	7.48	0.852	0.0638
8	2,3,7,8-TCDF	26.35	0.713	NO	7.3380e3	2.1336e6	0.500	-7.9	9.29	0.747	0.0693
9	1,2,3,7,8-PeCDF	30.11	1.549	NO	3.3701e4	1.5774e6	2.500	-2.6	8.18	0.877	0.0718
10	2,3,4,7,8-PeCDF	31.11	1.579	NO	3.6894e4	1.6094e6	2.500	-4.7	7.01	0.962	0.0675
11	1,2,3,4,7,8-HxCDF	33.69	1.183	NO	2.3321e4	1.0641e6	2.500	-4.7	8.23	0.920	0.0758
12	1,2,3,6,7,8-HxCDF	33.82	1.211	NO	2.4894e4	1.1017e6	2.500	-3.5	7.76	0.936	0.0727
13	2,3,4,6,7,8-HxCDF	34.52	1.248	NO	2.1357e4	9.2017e5	2.500	-4.5	8.41	0.973	0.0818

210414R1_2
1613 CS1 21D0707 ST210414R1-2 1613 CS1 21D0707
F1:Voltage SIR,EI+
303.9016
4.816e+004
2,3,7,8-TCDF;26.35;3053.99;47046

210414R1_2
1613 CS1 21D0707 ST210414R1-2 1613 CS1 21D0707
F1:Voltage SIR,EI+
305.899
8.787e+004
2,3,7,8-TCDF
26.34
4284.03
66856

210414R1_2
1613 CS1 21D0707 ST210414R1-2 1613 CS1 21D0707
F1:Voltage SIR,EI+
315.9419
1.551e+007
13C-2,3,7,8-TCDF;26.34;931277.94;15381864
24.95

210414R1_2
1613 CS1 21D0707 ST210414R1-2 1613 CS1 21D0707
F1 Voltage SIR,EI+
317.939
1.958e+007
13C-2,3,7,8-TCDF;26.34;1202303.88;19448304
24.95

Dataset: Untitled

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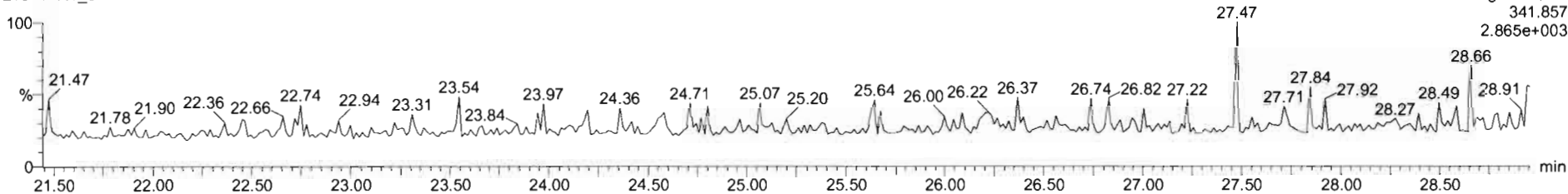Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

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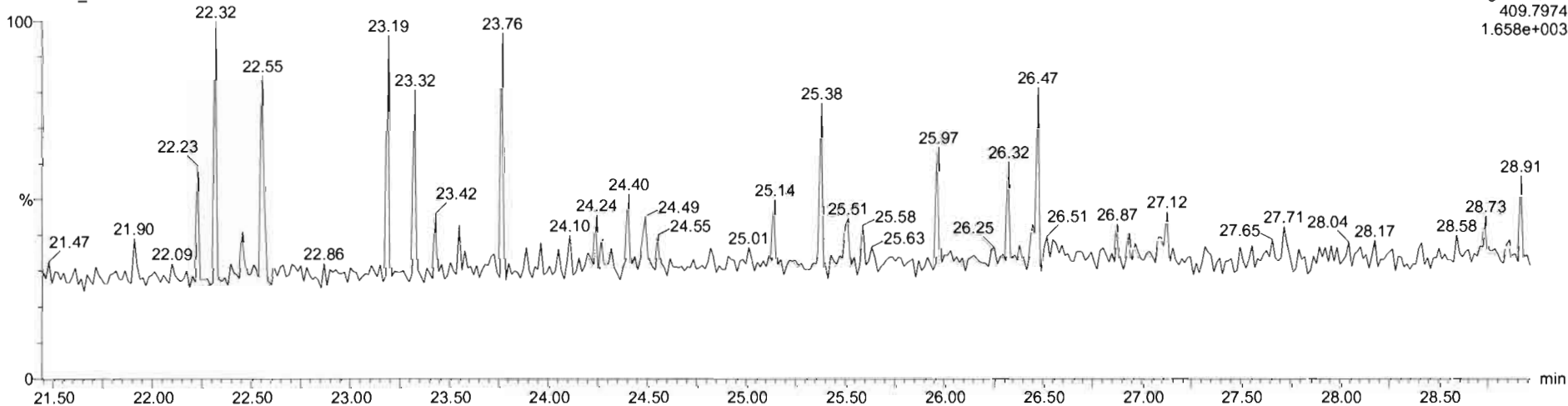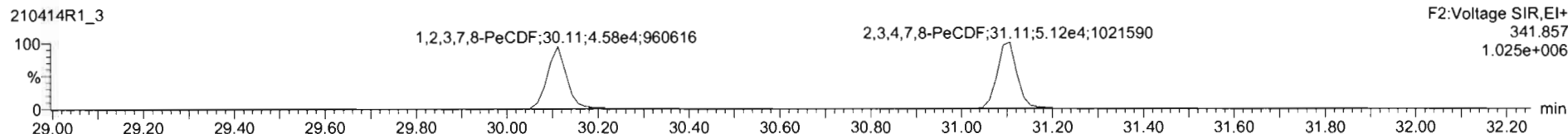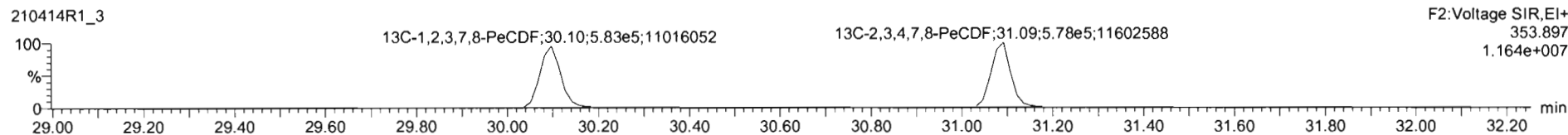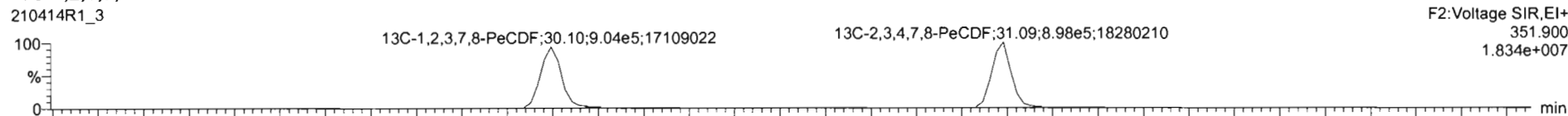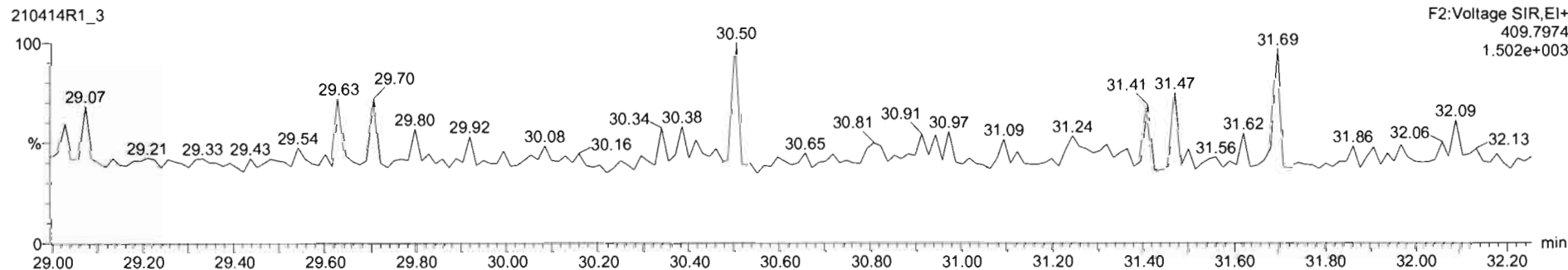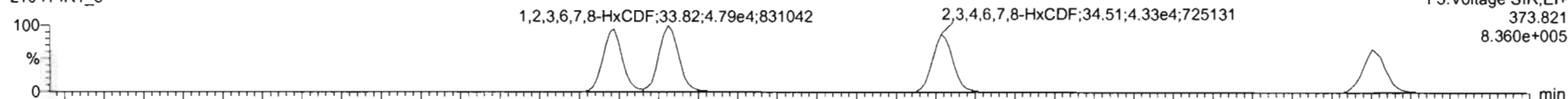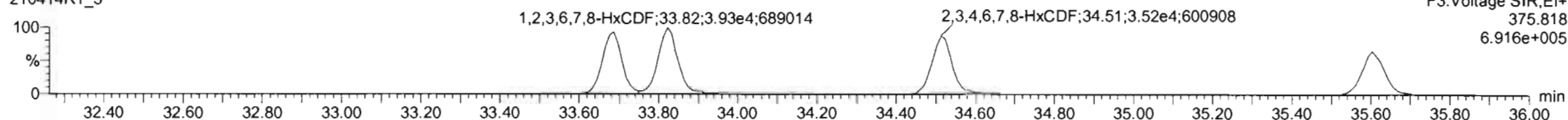
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DPE6

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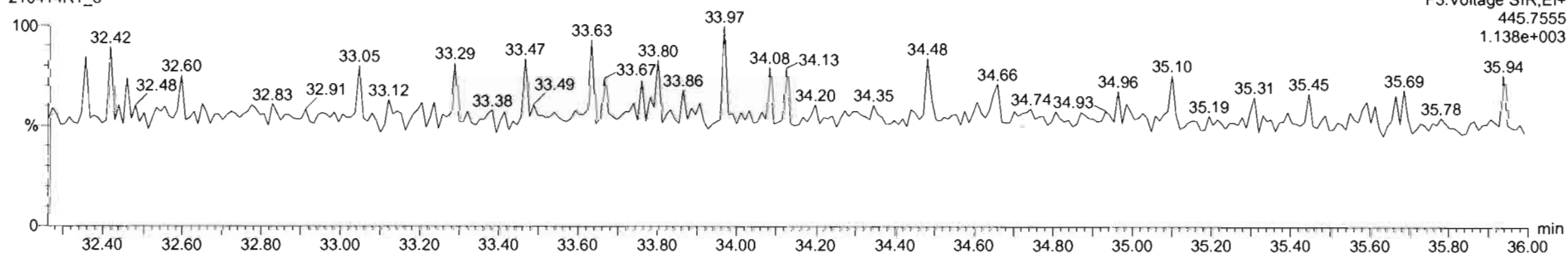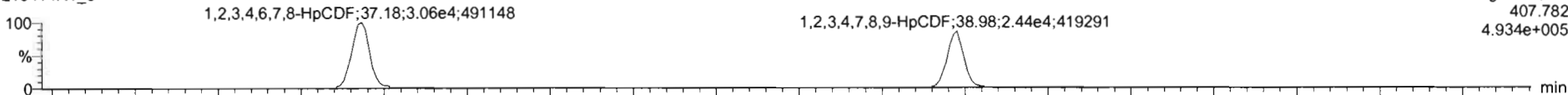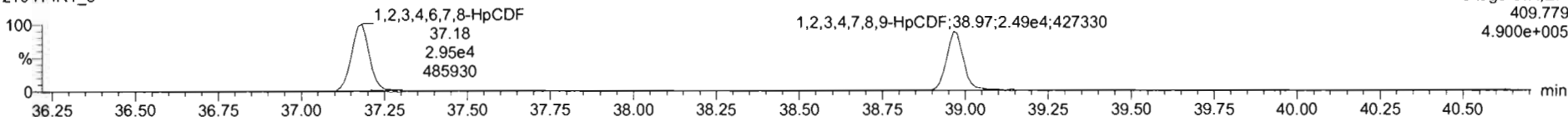
1,2,3,7,8-PeCDF

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

DPE2

210414R1_2   ST210414R1-2 1613 CS1 21D0707 - 1613 CS1 21D0707

#	#	Name	RT	RA	y/n	Area	IS Area	Std Conc	%Dev	%RSD	RRF M	RRF SD
1	1	2,3,7,8-TCDD	26.96	0.821	NO	6.8703e3	1.4587e6	0.500	1.4	8.93	0.929	0.0829
2	2	1,2,3,7,8-PeCDD	31.27	0.601	NO	2.3749e4	1.1607e6	2.500	-0.9	5.84	0.826	0.0482
3	3	1,2,3,4,7,8-HxCDD	34.62	1.227	NO	1.6474e4	7.1077e5	2.500	-4.7	8.87	0.972	0.0863
4	4	1,2,3,6,7,8-HxCDD	34.76	1.238	NO	1.7068e4	8.0285e5	2.500	-3.0	6.38	0.877	0.0560
5	5	1,2,3,7,8,9-HxCDD	35.04	1.292	NO	1.8427e4	8.9031e5	2.500	-5.3	8.86	0.874	0.0774
6	6	1,2,3,4,6,7,8-HpCDD	38.32	1.024	NO	1.7166e4	7.7045e5	2.500	-0.8	7.53	0.899	0.0677
7	7	OCDD	41.33	0.885	NO	2.5970e4	1.2727e6	5.000	-4.2	7.48	0.852	0.0638
8	8	2,3,7,8-TCDF	26.35	0.713	NO	7.3380e3	2.1330e6	0.500	-7.9	9.29	0.747	0.0693
9	9	1,2,3,7,8-PeCDF	30.11	1.549	NO	3.3701e4	1.5774e6	2.500	-2.6	8.18	0.877	0.0711
10	10	2,3,4,7,8-PeCDF	31.11	1.579	NO	3.6894e4	1.6094e6	2.500	-4.7	7.01	0.962	0.0675
11	11	1,2,3,4,7,8-HxCDF	33.69	1.183	NO	2.3321e4	1.0641e6	2.500	-4.7	8.23	0.920	0.0758
12	12	1,2,3,6,7,8-HxCDF	33.82	1.211	NO	2.4894e4	1.1017e6	2.500	-3.5	7.76	0.936	0.0727
13	13	2,3,4,6,7,8-HxCDF	34.52	1.248	NO	2.1357e4	9.2017e5	2.500	-4.5	8.41	0.973	0.0818

210414R1_2
1613 CS1 21D0707 ST210414R1-2 1613 CS1 21D0707

F2:Voltage SIR,EI+
339.860
4.205e+005
1,2,3,7,8-PeCDF;30.11;20480.29;418777

210414R1_2
1613 CS1 21D0707 ST210414R1-2 1613 CS1 21D0707

F2:Voltage SIR,EI+
341.857
2.635e+005
1,2,3,7,8-PeCDF;30.11;13220.32;260985

210414R1_2
1613 CS1 21D0707 ST210414R1-2 1613 CS1 21D0707

F2:Voltage SIR,EI+
351.900
2.013e+007
13C-1,2,3,7,8-PeCDF;30.10;968121.25;20051726

210414R1_2
1613 CS1 21D0707 ST210414R1-2 1613 CS1 21D0707

F2:Voltage SIR,EI+
353.897
1.271e+007
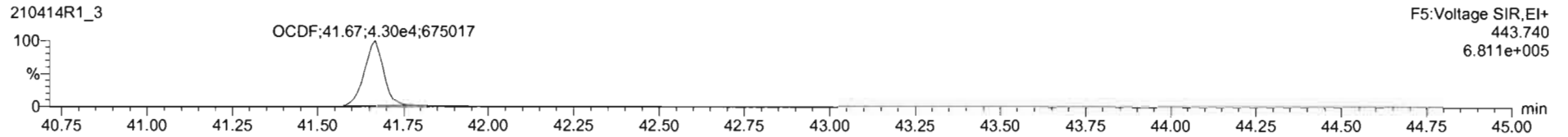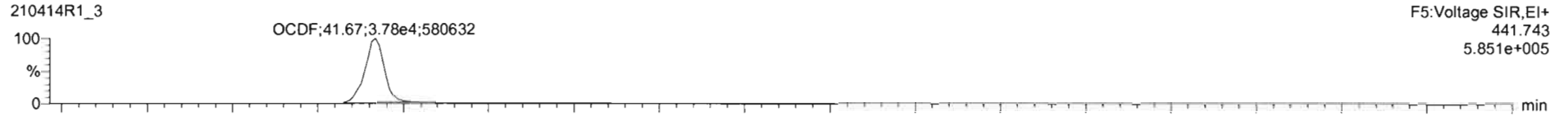13C-1,2,3,7,8-PeCDF;30.10;609232.13;12646302
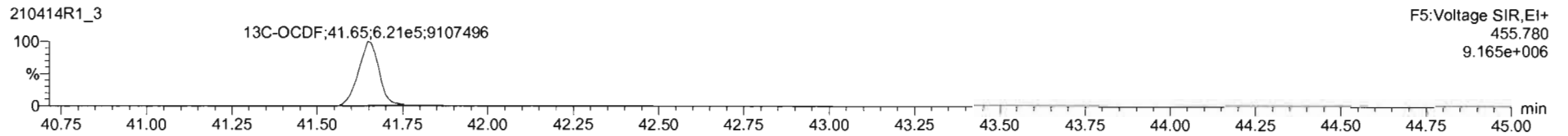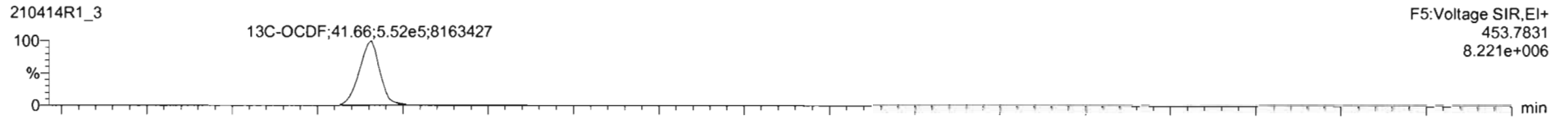
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Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

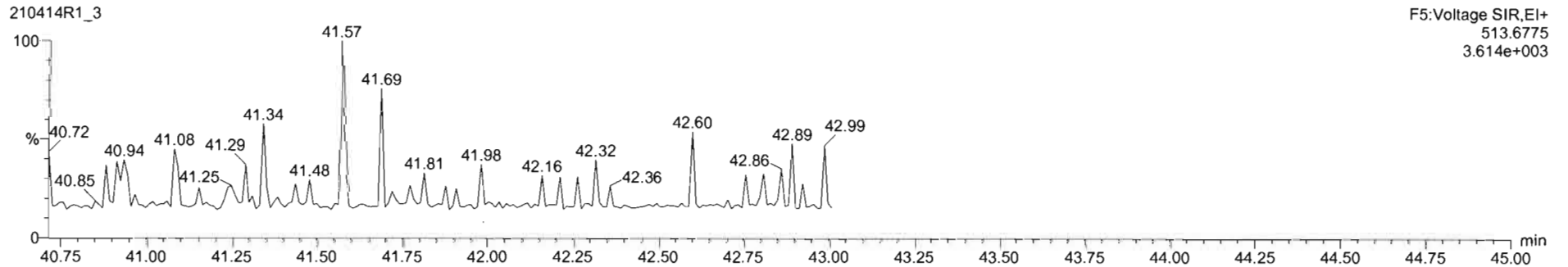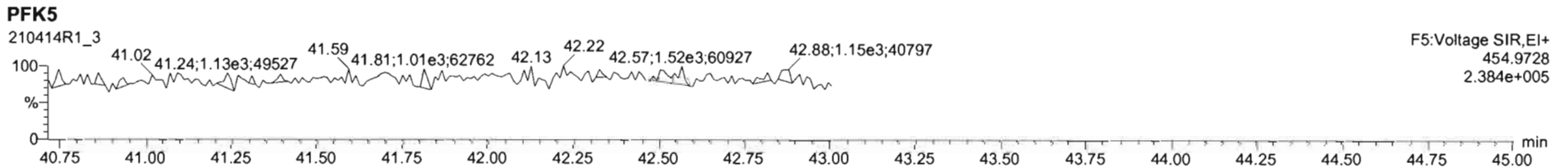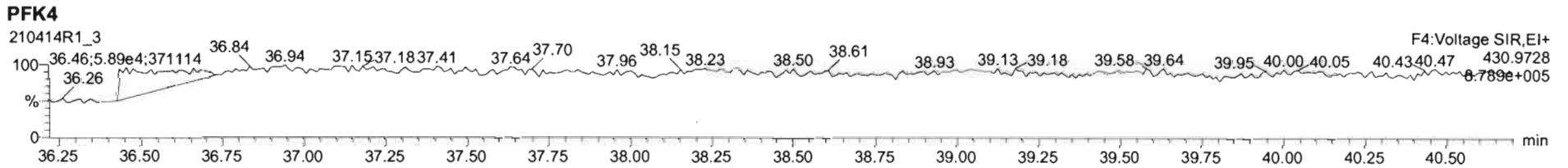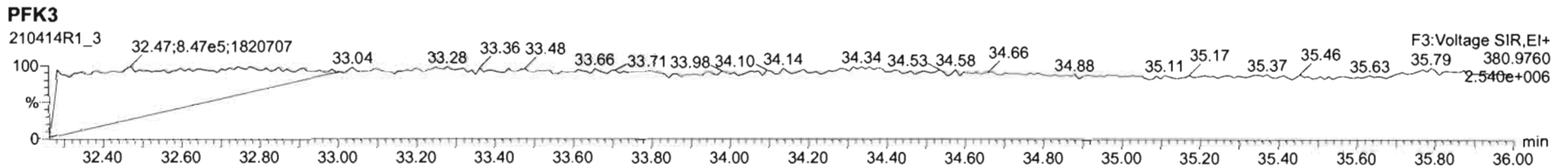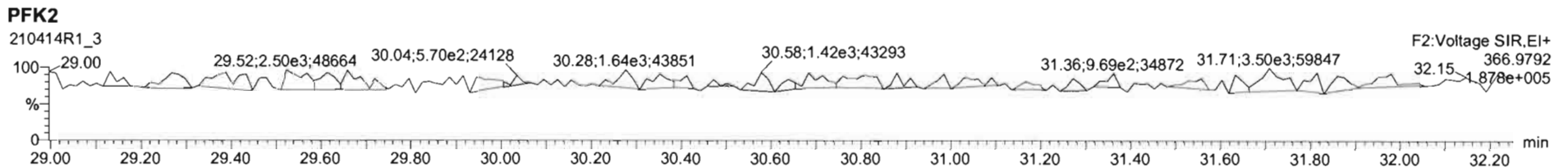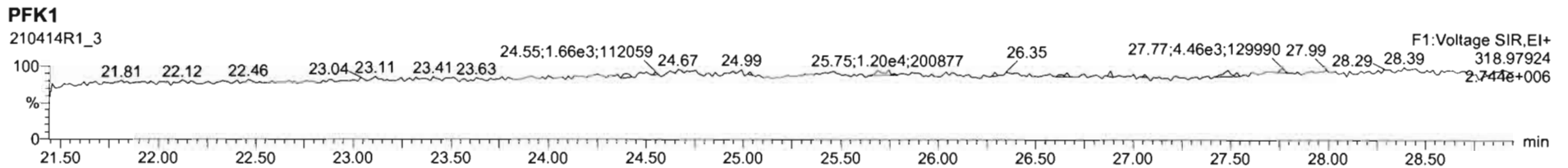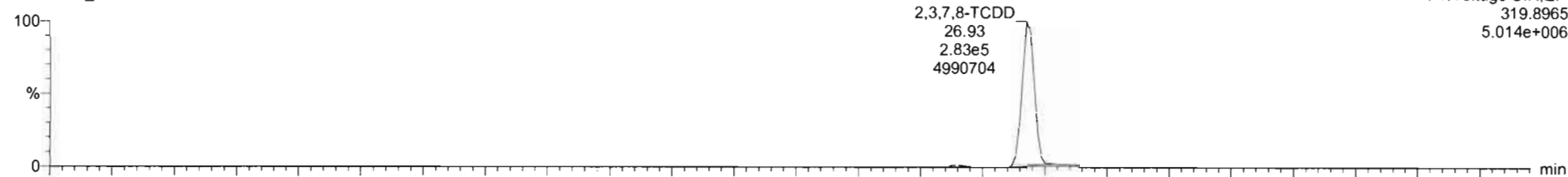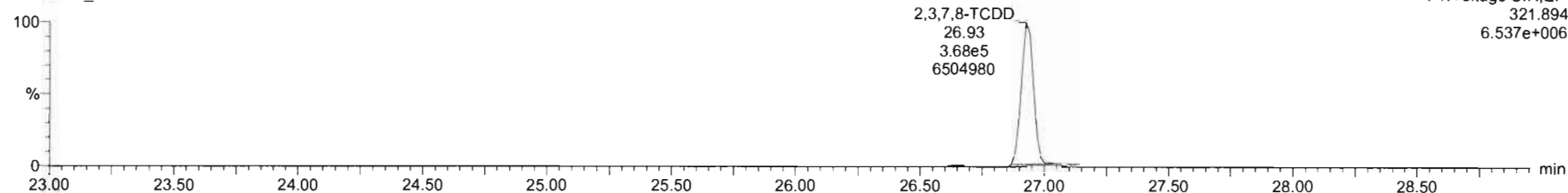**Name: 210414R1_2, Date: 14-Apr-2021, Time: 10:37:34, ID: ST210414R1-2 1613 CS1 21D0707, Description: 1613 CS1 21D0707**
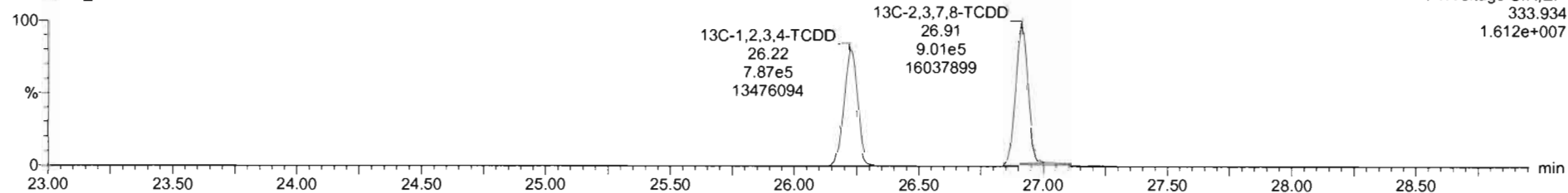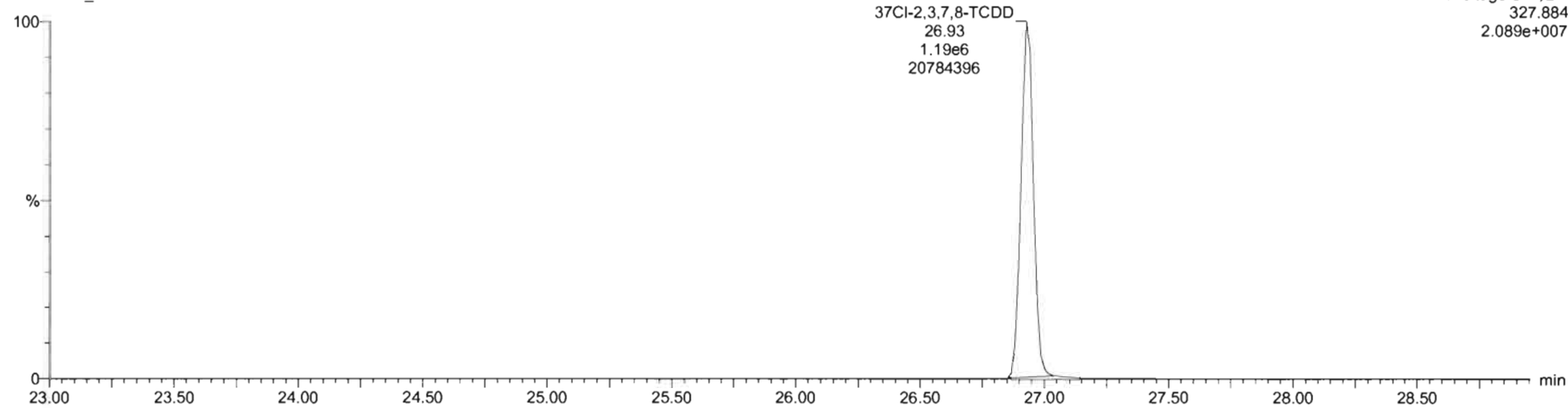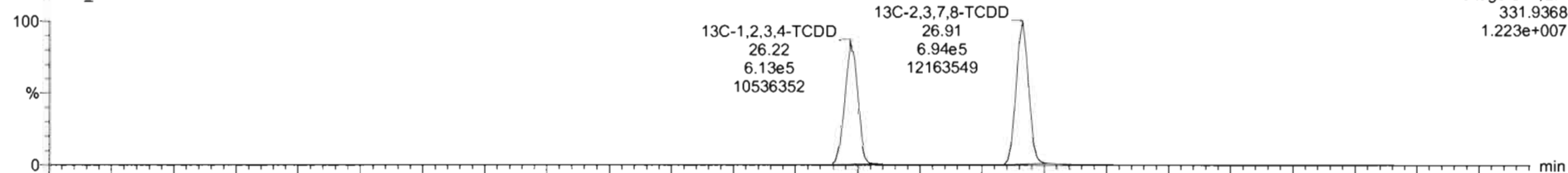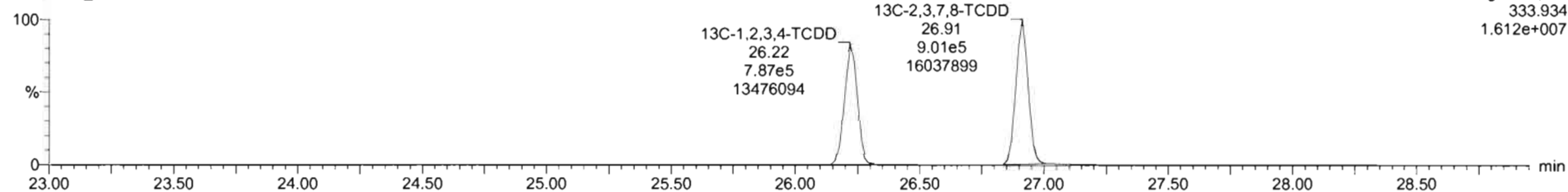
1,2,3,4,7,8-HxCDF

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

DPE3

#	Name	RT	RA	y/n	Area	IS Area	Std Conc	%Dev	%RSD	RRF M	RRF SD
1	2,3,7,8-TCDD	26.96	0.821	NO	6.8703e3	1.4587e6	0.500	1.4	8.93	0.929	0.0829
2	1,2,3,7,8-PeCDD	31.27	0.601	NO	2.3749e4	1.1607e6	2.500	-0.9	5.84	0.826	0.0482
3	1,2,3,4,7,8-HxCDD	34.62	1.227	NO	1.6474e4	7.1077e5	2.500	-4.7	8.87	0.972	0.0363
4	1,2,3,6,7,8-HxCDD	34.76	1.238	NO	1.7068e4	8.0285e5	2.500	-3.0	6.38	0.877	0.0560
5	1,2,3,7,8,9-HxCDD	35.04	1.292	NO	1.8427e4	8.9031e5	2.500	-5.3	8.86	0.874	0.0774
6	1,2,3,4,6,7,8-HpCDD	36.32	1.024	NO	1.7166e5	7.7045e5	2.500	-0.8	7.53	0.899	0.0677
7	OCDD	41.33	0.885	NO	2.5970e4	1.2727e6	5.000	-4.2	7.48	0.852	0.0638
8	2,3,7,8-TCDF	26.35	0.713	NO	7.3380e3	2.1336e6	0.500	-7.9	9.29	0.747	0.0693
9	1,2,3,7,8-PeCDF	30.11	1.549	NO	3.3701e4	1.5774e6	2.500	-2.6	8.18	0.877	0.0718
10	2,3,4,7,8-PeCDF	31.11	1.579	NO	3.6894e4	1.6094e6	2.500	-4.7	7.01	0.962	0.0675
11	1,2,3,4,7,8-HxCDF	33.69	1.183	NO	2.3321e4	1.0641e6	2.500	-4.7	8.23	0.920	0.0758
12	1,2,3,6,7,8-HxCDF	33.82	1.211	NO	2.4894e4	1.1017e6	2.500	-3.5	7.76	0.936	0.0727
13	2,3,4,6,7,8-HxCDF	34.52	1.248	NO	2.1357e4	9.2017e5	2.500	-4.5	8.41	0.973	0.0818

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210414R1_2 - ST210414R1-2 1613 CS1 21D0707 - 1613 CS1 21D0707

	#	Name	RT	RA	y/n	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M	RRF SD
1	1	2,3,7,8-TCDD	26.96	0.821	NO	6.8703e3	1.4587e6	0.500	1.4	8.93	0.929	0.0829
2	2	1,2,3,7,8-PeCDD	31.27	0.601	NO	2.3749e4	1.1607e6	2.500	-0.9	5.84	0.826	0.0482
3	3	1,2,3,4,7,8-HxCDD	34.62	1.227	NO	1.6474e4	7.1077e5	2.500	-4.7	8.87	0.972	0.0863
4	4	1,2,3,6,7,8-HxCDD	34.76	1.238	NO	1.7068e4	8.0285e5	2.500	-3.0	6.38	0.877	0.0560
5	5	1,2,3,7,8,9-HxCDD	35.04	1.292	NO	1.8427e4	8.9031e5	2.500	-5.3	8.86	0.874	0.0774
6	6	1,2,3,4,6,7,8-HpCDD	38.32	1.024	NO	1.7166e4	7.7045e5	2.500	-0.8	7.53	0.899	0.0677
7	7	OCDD	41.33	0.885	NO	2.5970e4	1.2727e6	5.000	-4.2	7.48	0.852	0.0638
8	8	2,3,7,8-TCDF	26.35	0.713	NO	7.3380e3	2.1336e6	0.500	-7.9	9.29	0.747	0.0693
9	9	1,2,3,7,8-PeCDF	30.11	1.549	NO	3.3701e4	1.5774e6	2.500	-2.6	8.18	0.877	0.0718
10	10	2,3,4,7,8-PeCDF	31.11	1.579	NO	3.6894e4	1.6094e6	2.500	-4.7	7.01	0.962	0.0675
11	11	1,2,3,4,7,8-HxCDF	33.69	1.183	NO	2.3321e4	1.0641e6	2.500	-4.7	8.23	0.920	0.0758
12	12	1,2,3,6,7,8-HxCDF	33.82	1.211	NO	2.4594e4	1.1017e6	2.500	-3.5	7.76	0.936	0.0727
13	13	2,3,4,6,7,8-HxCDF	34.52	1.248	NO	2.1357e4	9.2017e5	2.500	-4.5	6.41	0.973	0.0818

210414R1_2
1613 CS1 21D0707 ST210414R1-2 1613 CS1 21D0707
F3:Voltage SIR,EI+
373.821
2.447e+005
100% % 0 min
33.69   1,2,3,6,7,8-HxCDF;33.82;13632.62;242122

210414R1_2
1613 CS1 21D0707 ST210414R1-2 1613 CS1 21D0707
F3:Voltage SIR,EI+
375.818
2.115e+005
100% % 0 min
33.68   1,2,3,6,7,8-HxCDF;33.82;11261.56;209814

210414R1_2
1613 CS1 21D0707 ST210414R1-2 1613 CS1 21D0707
F3:Voltage SIR,EI+
383.864
6.780e+006
100% % 0 min
33.67   13C-1,2,3,6,7,8-HxCDF;33.81;379404.06;6707854   34.14

210414R1_2
1613 CS1 21D0707 ST210414R1-2 1613 CS1 21D0707
F3:Voltage SIR,EI+
385.861
1.295e+007
100% % 0 min
33.67   13C-1,2,3,6,7,8-HxCDF;33.81;722251.88;12700290   34.14
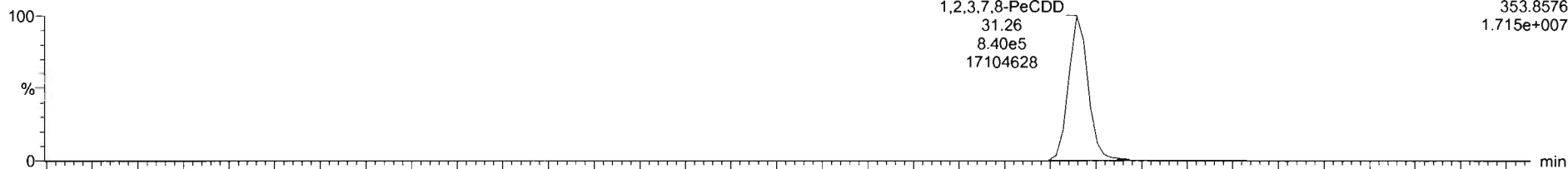
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Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

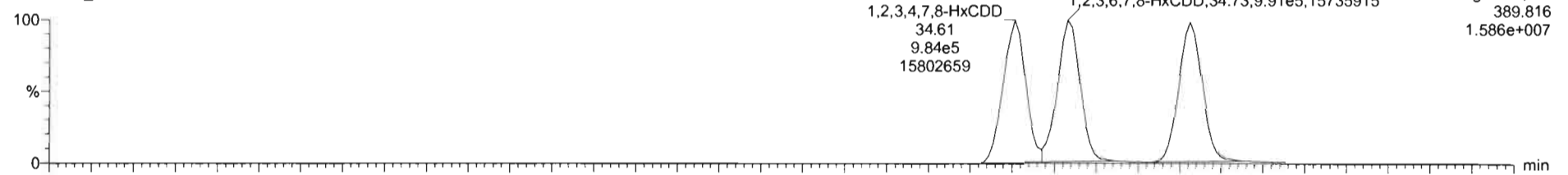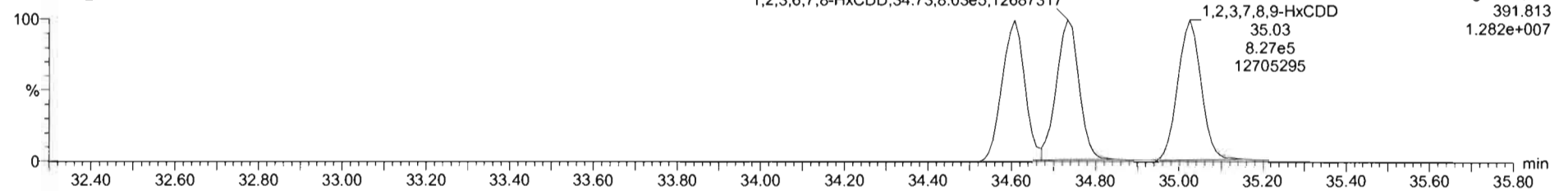**Name: 210414R1_2, Date: 14-Apr-2021, Time: 10:37:34, ID: ST210414R1-2 1613 CS1 21D0707, Description: 1613 CS1 21D0707**

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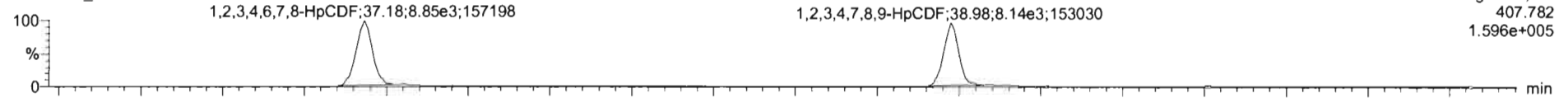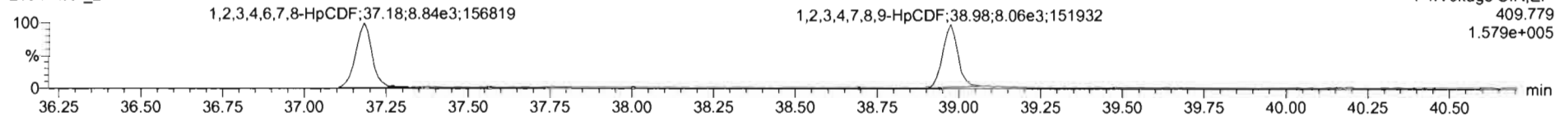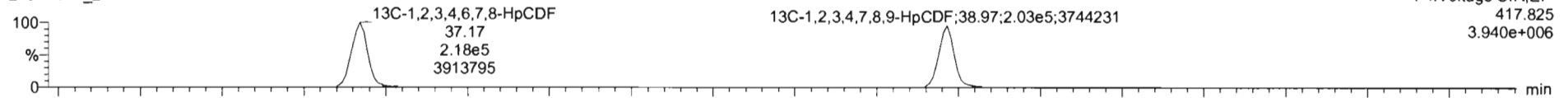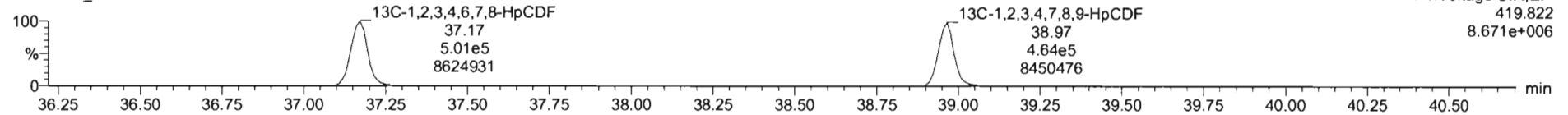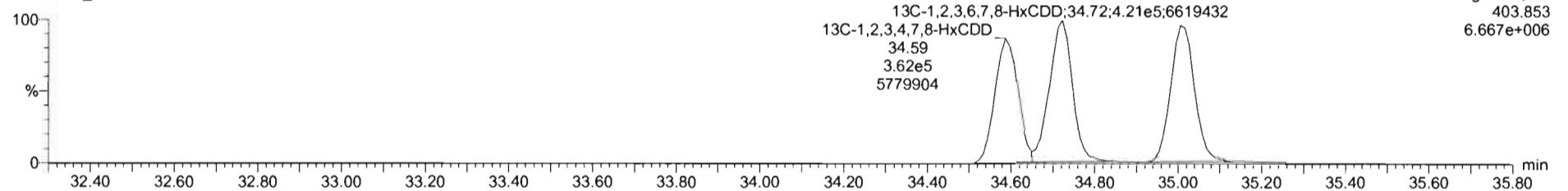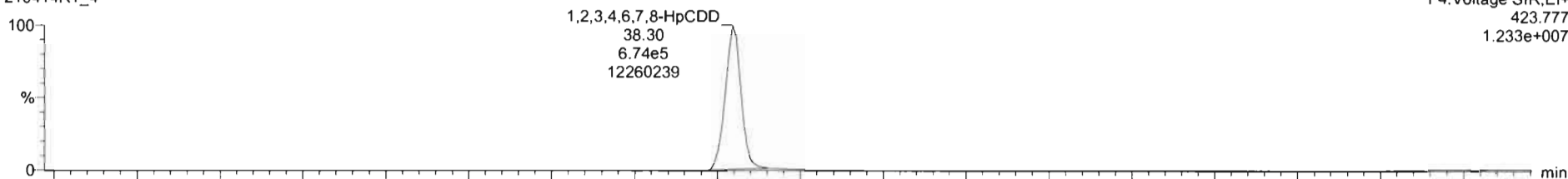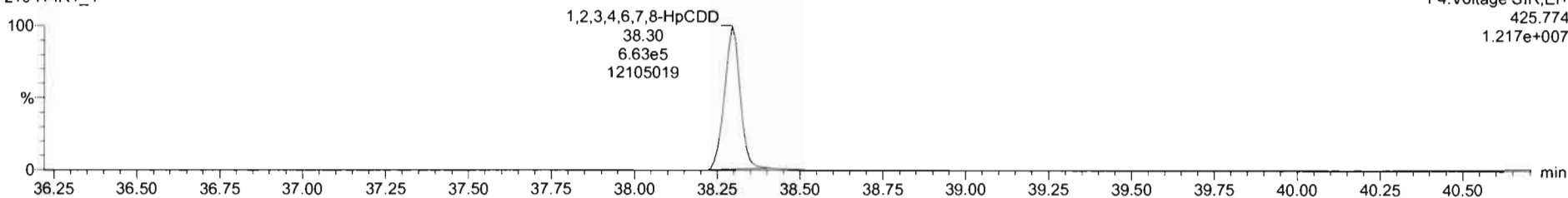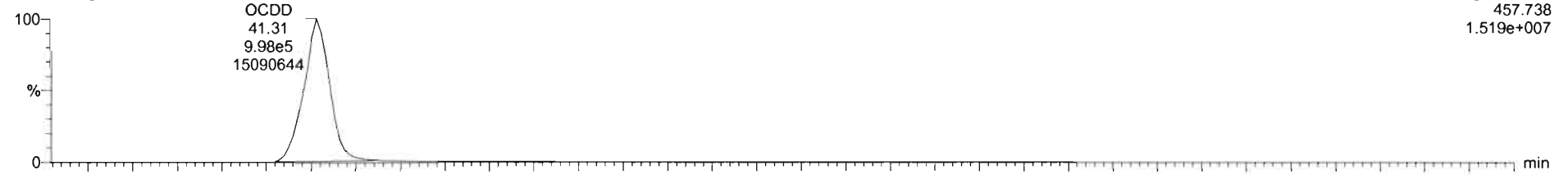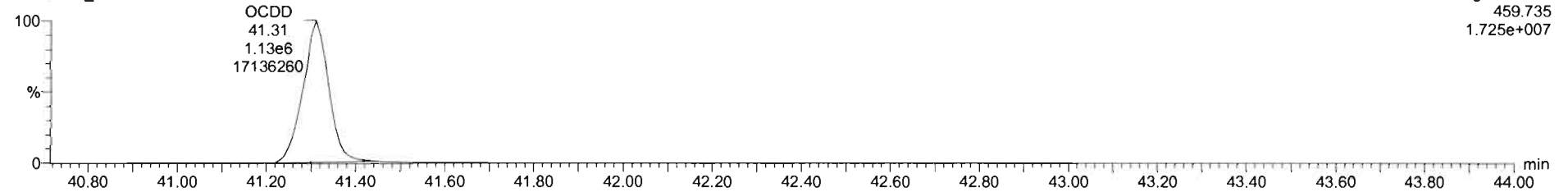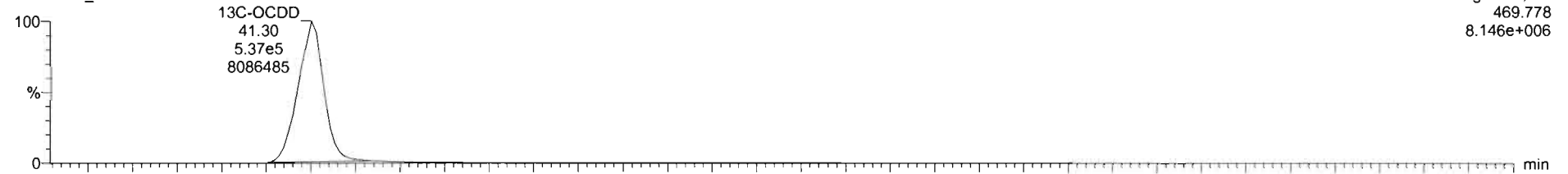

13C-1,2,3,4,6,7,8-HpCDF

DPE4
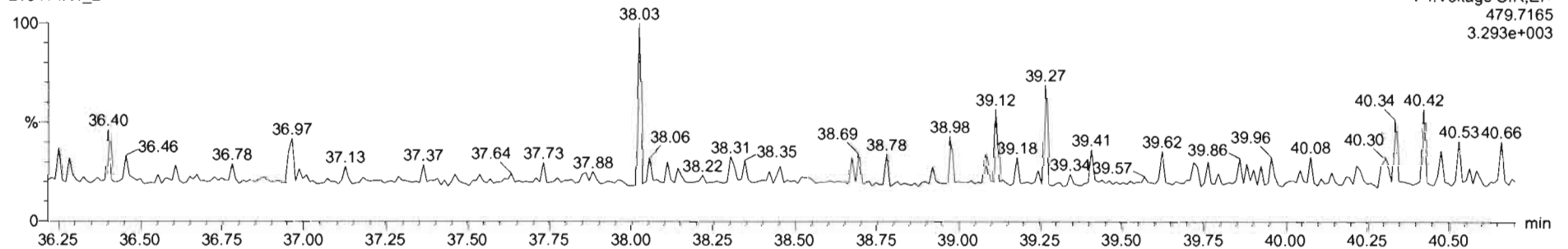
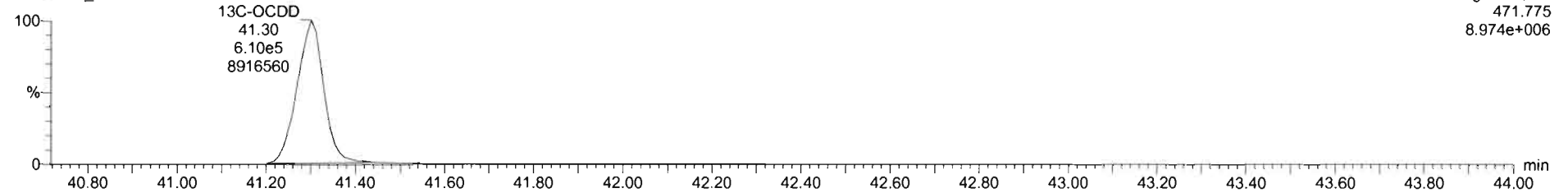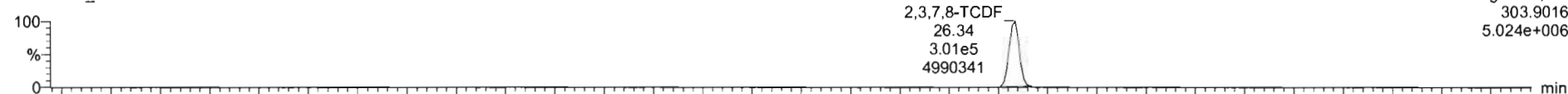| #	Name	RT	RA	y/n	Area	IS Area	Std Conc	%Dev	%RSD	RRF M	RRF SD
11	1,2,3,4,7,8-HxCDF	33.69	1.183	NO	2.3321e4	1.0641e6	2.500	-4.7	8.23	0.920	0.0758
12	1,2,3,6,7,8-HxCDF	33.82	1.211	NO	2.4894e4	1.1017e6	2.500	-3.5	7.76	0.936	0.0727
13	2,3,4,6,7,8-HxCDF	34.52	1.248	NO	2.1357e4	9.2017e5	2.500	-4.5	8.41	0.973	0.0818
14	1,2,3,7,8,9-HxCDF	35.61	1.159	NO	1.8506e4	8.2325e5	2.500	-4.3	8.34	0.940	0.0784
15	1,2,3,4,6,7,8-HpCDF	37.18	1.035	NO	1.7870e4	7.1870e5	2.500	-5.1	8.33	1.05	0.0873
16	1,2,3,4,7,8,9-HpCDF	38.98	1.010	NO	1.6198e4	6.6655e5	2.500	-7.0	8.40	1.05	0.0879
17	OCDF	41.67	0.878	NO	2.7542e4	1.4722e6	5.000	-3.0	7.94	0.771	0.0612
18	13C-2,3,7,8-TCDD	26.93	0.772	NO	1.4587e6	1.3814e6	100.000	-4.3	8.43	1.10	0.0930
19	13C-1,2,3,7,8-PeCDD	31.26	0.625	NO	1.1607e6	1.3814e6	100.000	-2.7	10.5	0.864	0.0903
20	13C-1,2,3,4,7,8-HxCDD	34.61	1.282	NO	7.1077e5	1.0053e6	100.000	-5.2	8.73	0.746	0.0651
21	13C-1,2,3,6,7,8-HxCDD	34.73	1.263	NO	8.0285e5	1.0053e6	100.000	-5.7	9.12	0.847	0.0773
22	13C-1,2,3,7,8,9-HxCDD	35.03	1.257	NO	8.9031e5	1.0053e6	100.000	2.0	8.65	0.868	0.0751
23	13C-1,2,3,4,6,7,8-HpCDD	38.29	1.047	NO	7.7045e5	1.0053e6	100.000	15.4	10.1	0.864	0.0671

Dataset: Untitled

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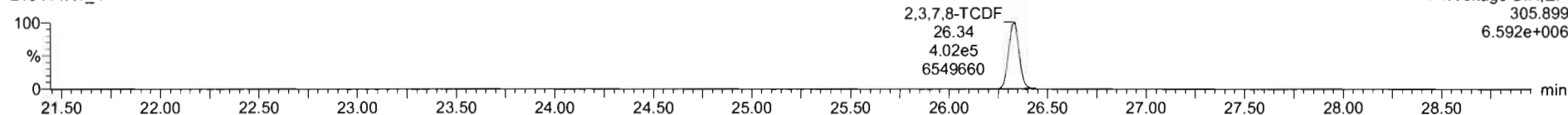
OCDF

210414R1_2   F5:Voltage SIR,EI+
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100   2.096e+005
%
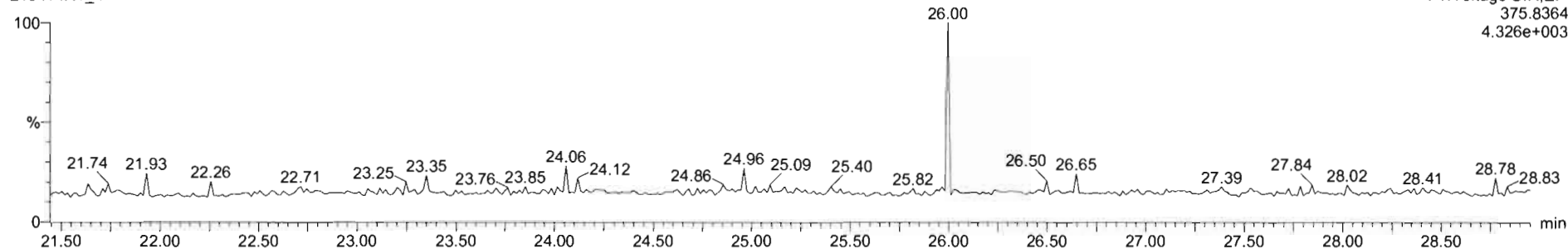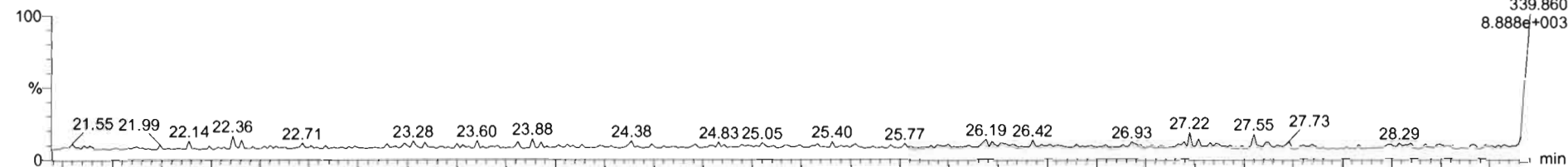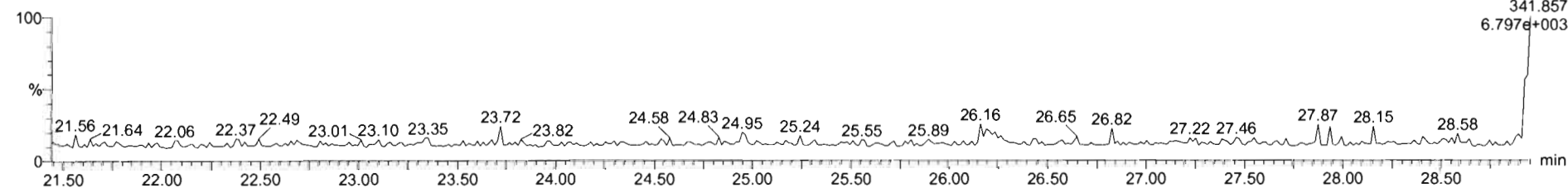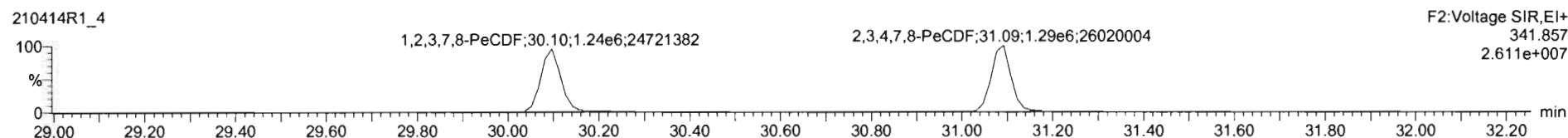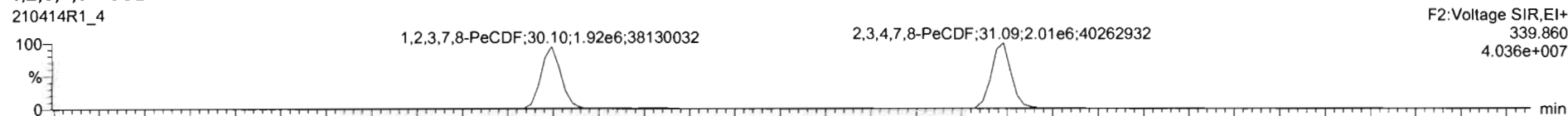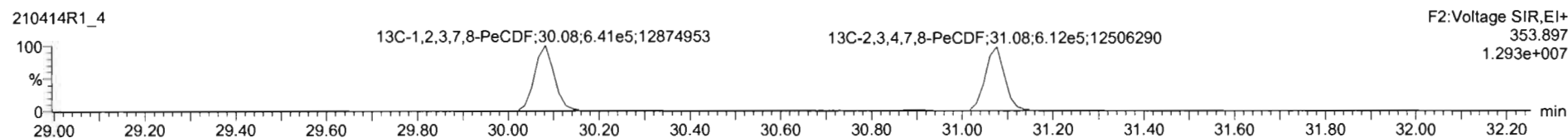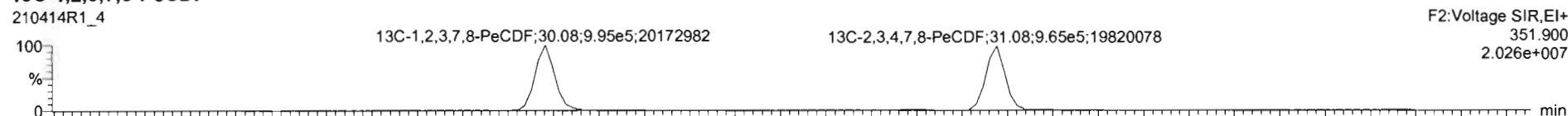0   min

210414R1_2   F5:Voltage SIR,EI+
                                    OCDF;41.67;1.47e4;234652   443.740
100   2.367e+005
%
0   min
  40.75 41.00 41.25 41.50 41.75 42.00 42.25 42.50 42.75 43.00 43.25 43.50 43.75 44.00 44.25 44.50 44.75 45.00

13C-OCDF

210414R1_2   F5:Voltage SIR,EI+
                            13C-OCDF;41.66;6.91e5;10778243   453.7831
100   1.084e+007
%
0   min

210414R1_2   F5:Voltage SIR,EI+
                            13C-OCDF;41.65;7.81e5;12184108   455.780
100   1.227e+007
%
0   min
  40.75 41.00 41.25 41.50 41.75 42.00 42.25 42.50 42.75 43.00 43.25 43.50 43.75 44.00 44.25 44.50 44.75 45.00

DPE5

210414R1_2   F5:Voltage SIR,EI+
                                              41.80   513.6775
100   4.441e+003
              41.40 41.55
                            41.71
        41.63
%   40.80 40.94 41.17   41.92 42.10   42.84 42.94
              41.30 41.48   42.23 42.53 42.55 42.80   42.99
                                         42.39
0   min
  40.75 41.00 41.25 41.50 41.75 42.00 42.25 42.50 42.75 43.00 43.25 43.50 43.75 44.00 44.25 44.50 44.75 45.00

Dataset: Untitled

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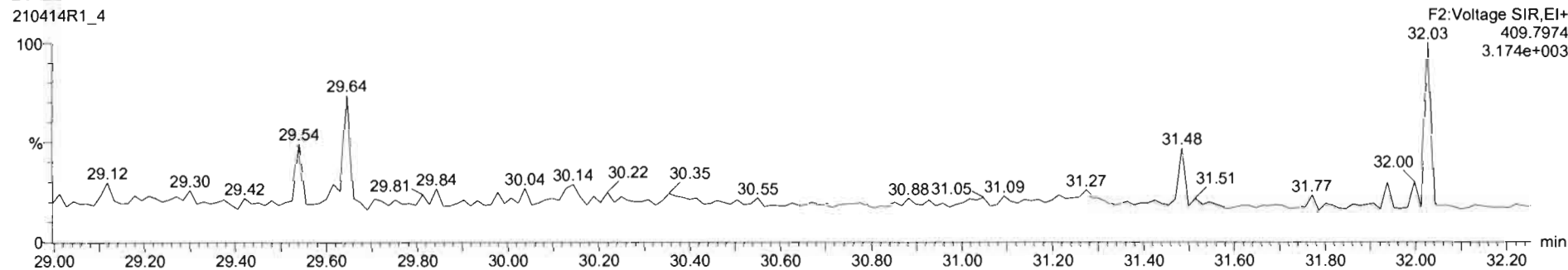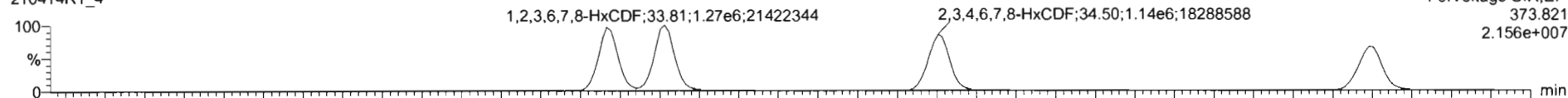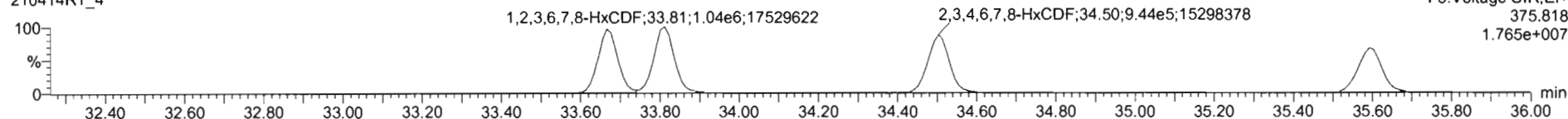**Name: 210414R1_2, Date: 14-Apr-2021, Time: 10:37:34, ID: ST210414R1-2 1613 CS1 21D0707, Description: 1613 CS1 21D0707**

PFK1
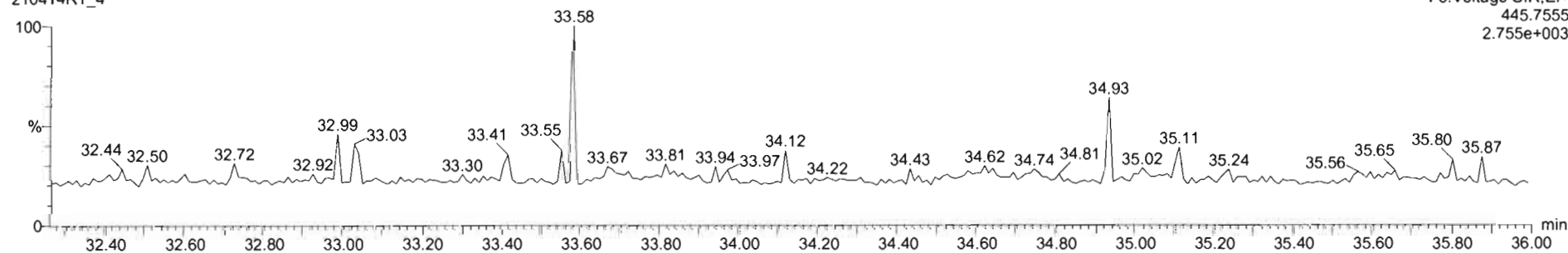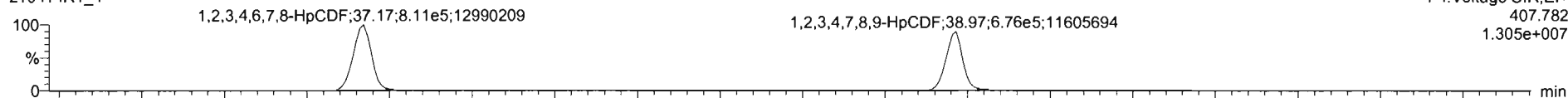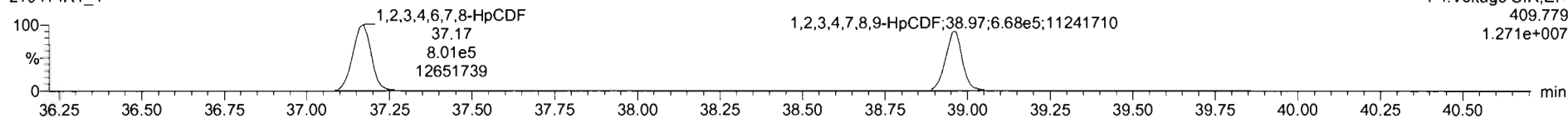210414R1_2 — F1:Voltage SIR,EI+ 318.97924 2.605e+006

PFK2
210414R1_2 — F2:Voltage SIR,EI+ 366.9792 4.685e+005

PFK3
210414R1_2 — F3:Voltage SIR,EI+ 380.9760 3.098e+006

PFK4
210414R1_2 — F4:Voltage SIR,EI+ 430.9728 1.261e+006

PFK5
210414R1_2 — F5:Voltage SIR,EI+ 454.9728 5.324e+005

Dataset: Untitled

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Name: 210414R1_3, Date: 14-Apr-2021, Time: 11:26:41, ID: ST210414R1-3 1613 CS2 21C0104, Description: 1613 CS2 21C0104
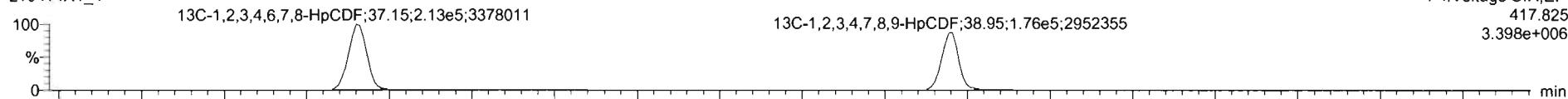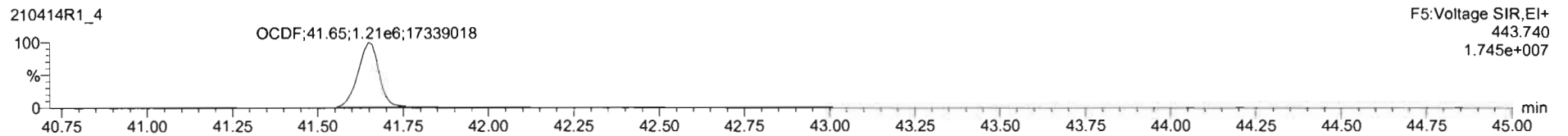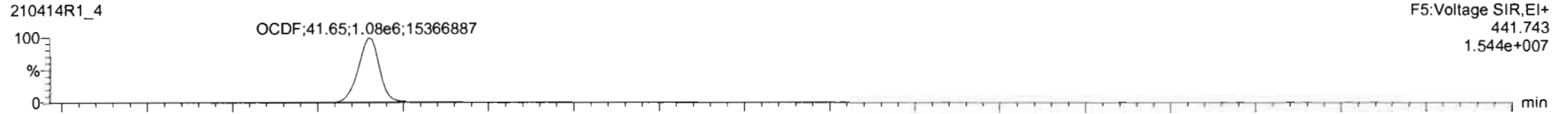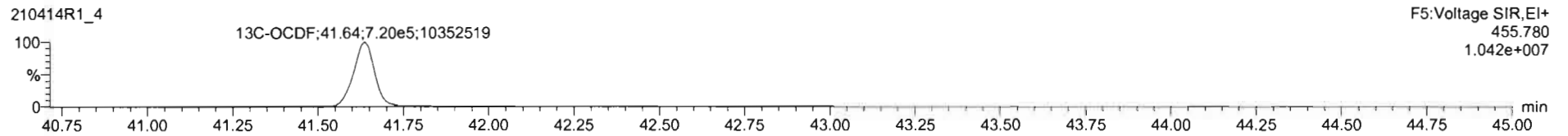
2,3,7,8-TCDD

210414R1_3

F1:Voltage SIR,EI+
319.8965
1.826e+005

2,3,7,8-TCDD
26.94
1.04e4
180924

210414R1_3

F1:Voltage SIR,EI+
321.894
2.497e+005

2,3,7,8-TCDD
26.94
1.36e4
247736

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

210414R1_3

F1:Voltage SIR,EI+
331.9368
1.149e+007

13C-1,2,3,4-TCDD
26.23
5.80e5
9710286

13C-2,3,7,8-TCDD
26.93
6.48e5
11427913

210414R1_3

F1:Voltage SIR,EI+
333.934
1.464e+007

13C-1,2,3,4-TCDD
26.23
7.46e5
12524277

13C-2,3,7,8-TCDD
26.93
8.31e5
14569771

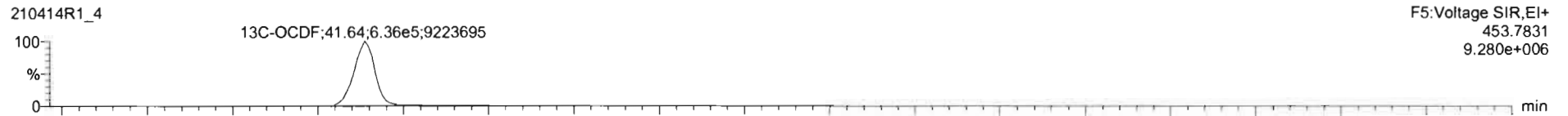Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
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Name: 210414R1_3, Date: 14-Apr-2021, Time: 11:26:41, ID: ST210414R1-3 1613 CS2 21C0104, Description: 1613 CS2 21C0104
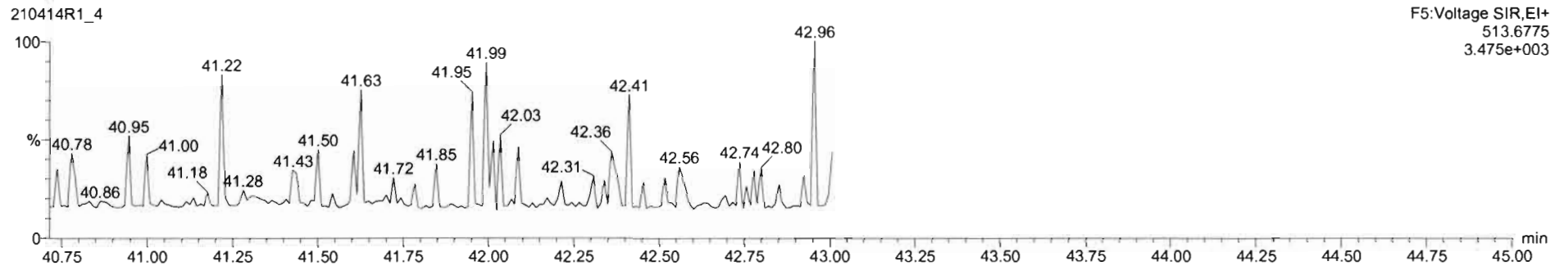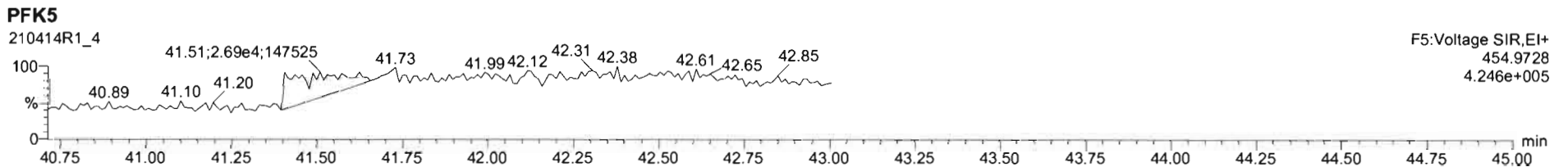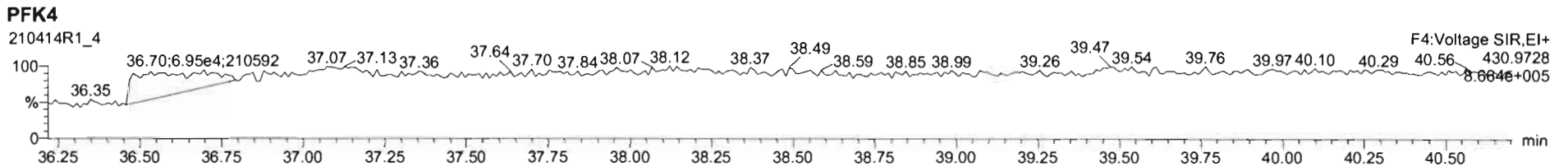
37Cl-2,3,7,8-TCDD

210414R1_3

37Cl-2,3,7,8-TCDD
26.94
4.90e4
843553

F1:Voltage SIR,EI+
327.884
8.483e+005

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

210414R1_3

13C-1,2,3,4-TCDD
26.23
5.80e5
9710286

13C-2,3,7,8-TCDD
26.93
6.48e5
11427913

F1:Voltage SIR,EI+
331.9368
1.149e+007

210414R1_3

13C-1,2,3,4-TCDD
26.23
7.46e5
12524277

13C-2,3,7,8-TCDD
26.93
8.31e5
14569771
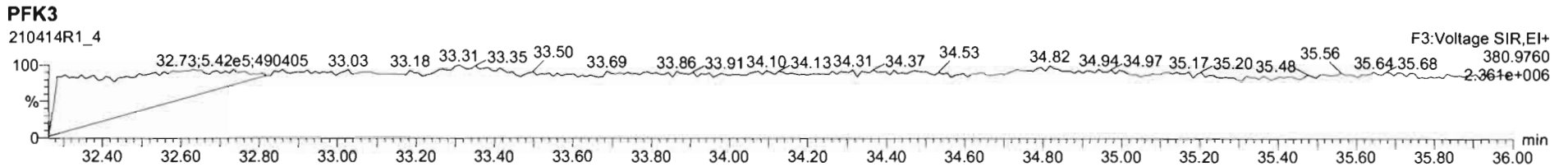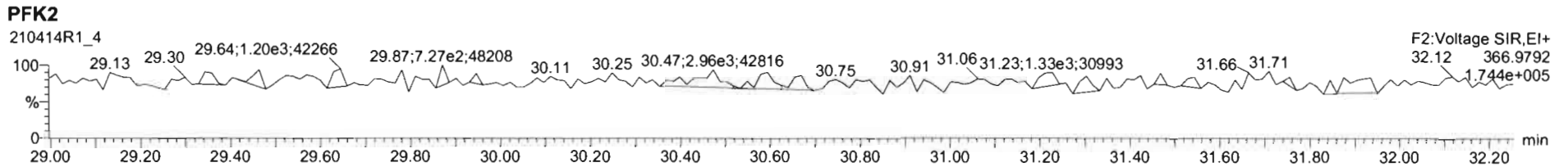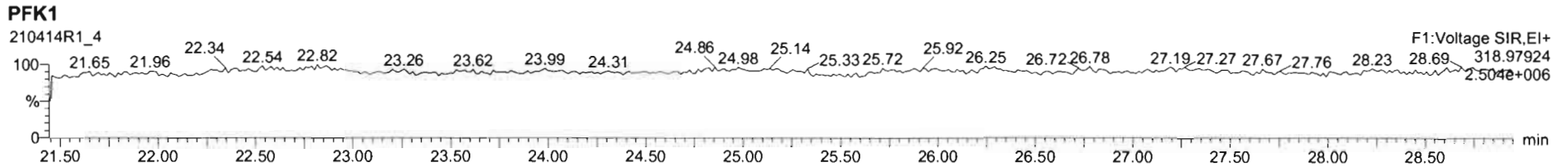
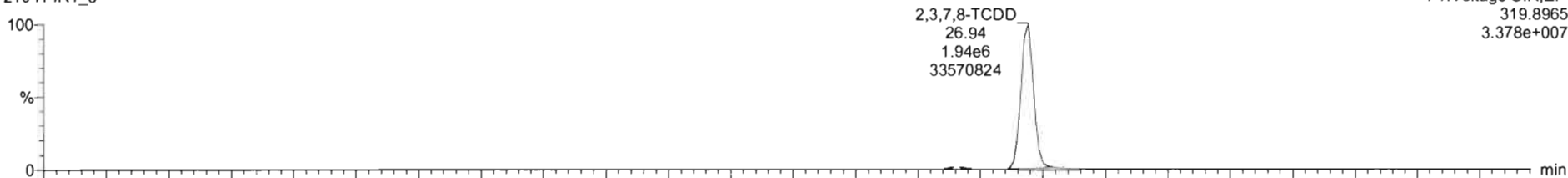F1:Voltage SIR,EI+
333.934
1.464e+007

Dataset: Untitled

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Name: 210414R1_3, Date: 14-Apr-2021, Time: 11:26:41, ID: ST210414R1-3 1613 CS2 21C0104, Description: 1613 CS2 21C0104

1,2,3,7,8-PeCDD

210414R1_3

1,2,3,7,8-PeCDD
31.27
3.22e4
658843

F2:Voltage SIR,EI+
353.8576
6.608e+005

210414R1_3

1,2,3,7,8-PeCDD
31.27
5.14e4
1071064

F2:Voltage SIR,EI+
355.8550
1.075e+006

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

210414R1_3

13C-1,2,3,7,8-PeCDD
31.26
4.28e5
8764260

F2:Voltage SIR,EI+
365.8978
8.793e+006

210414R1_3

13C-1,2,3,7,8-PeCDD
31.26
6.86e5
13938358

F2:Voltage SIR,EI+
367.895
1.398e+007

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
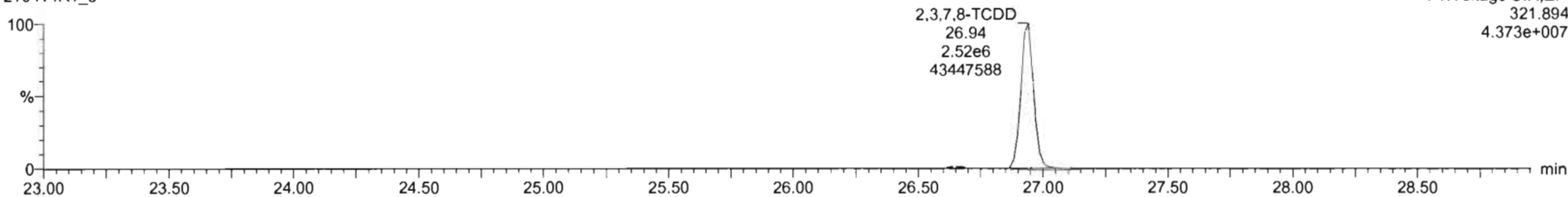Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_3, Date: 14-Apr-2021, Time: 11:26:41, ID: ST210414R1-3 1613 CS2 21C0104, Description: 1613 CS2 21C0104

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

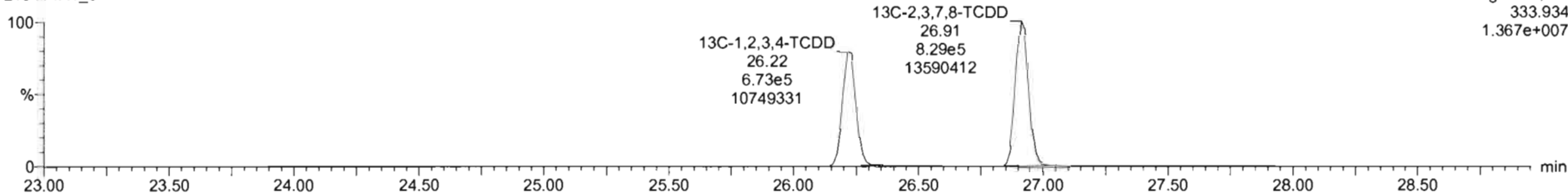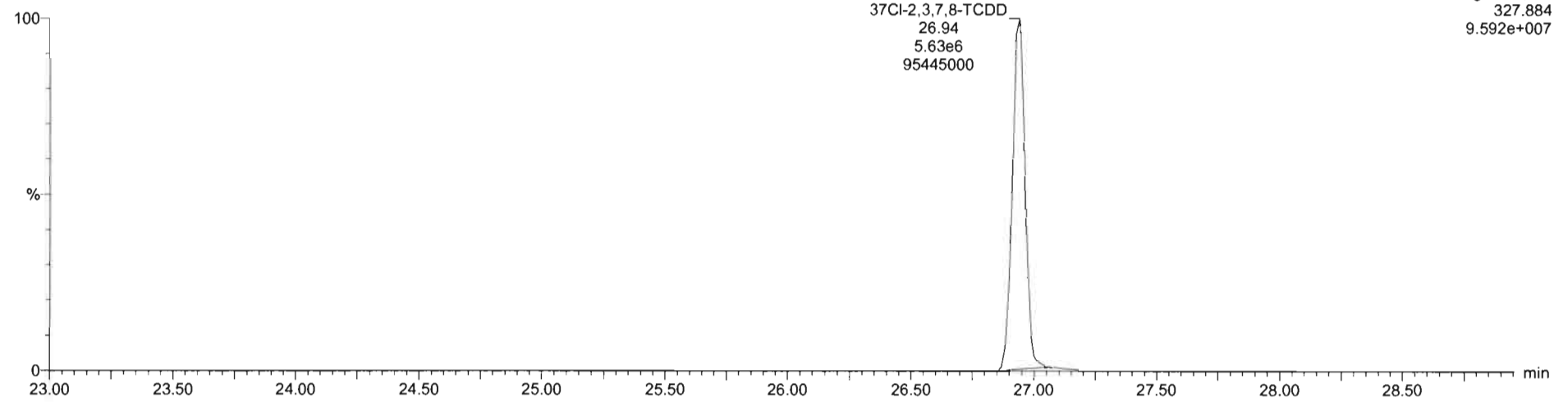**13C-1,2,3,4,7,8-HxCDD**

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Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_3, Date: 14-Apr-2021, Time: 11:26:41, ID: ST210414R1-3 1613 CS2 21C0104, Description: 1613 CS2 21C0104

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

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

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
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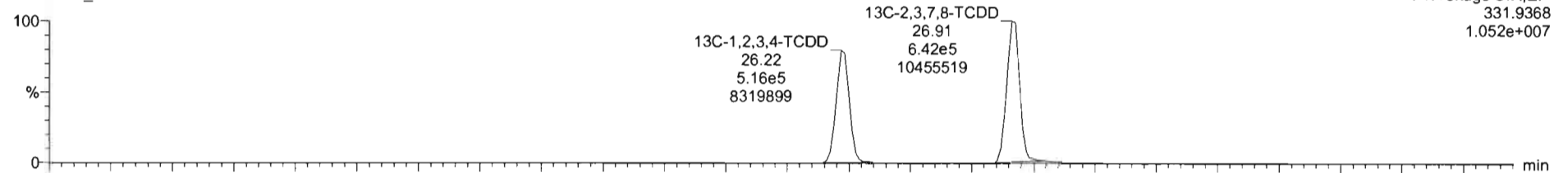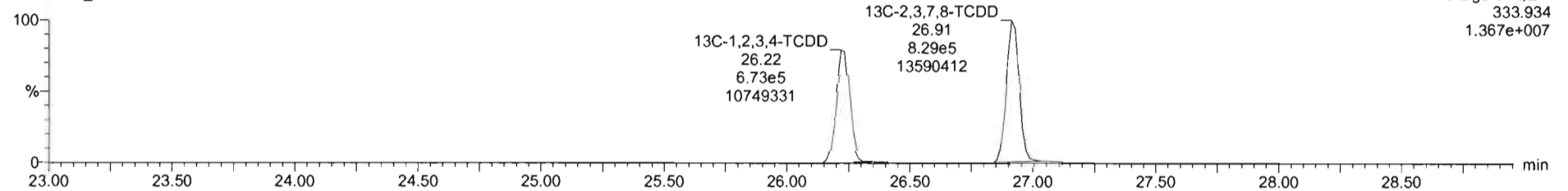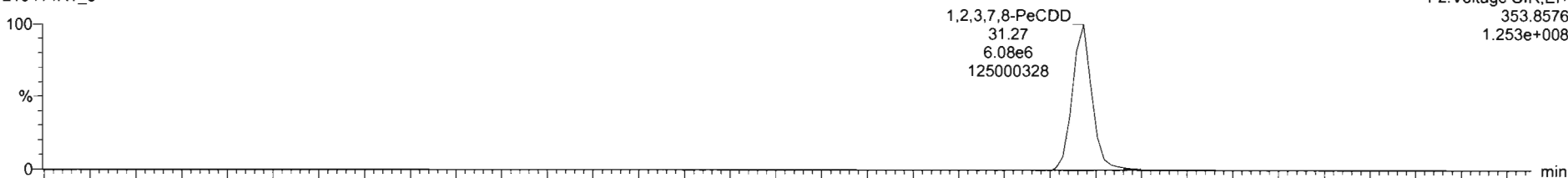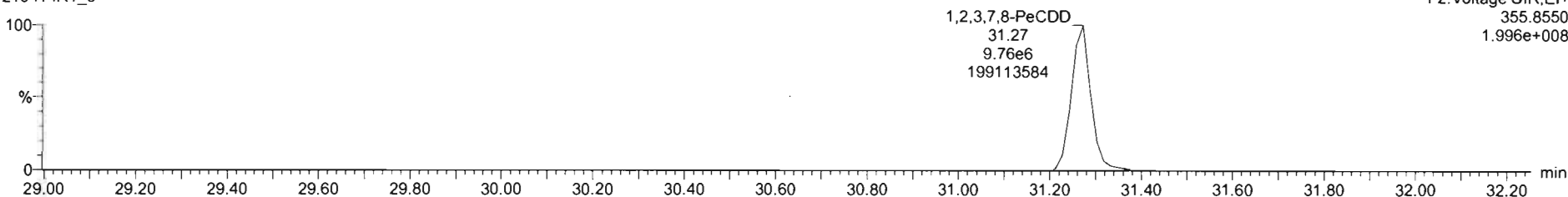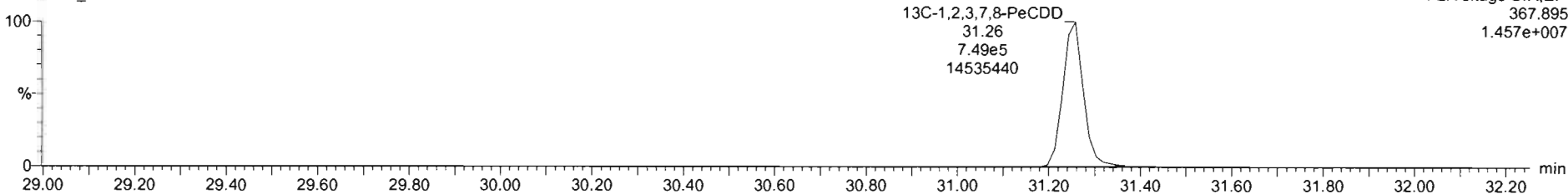
OCDD

13C-OCDD

File   Edit   View   Display   Processing   Window   Help

210414R1_3 - ST210414R1-3 1613 CS2 21C0104 - 1613 CS2 21C0104

#	Name	RT	RA	y/n	Area	IS Area	Std Conc	%Dev	%RSD	RRF M	RRF SD
1	2,3,7,8-TCDD	26.94	0.762	NO	2.4014e4	1.4792e6	2.000	-12.6	8.93	0.929	0.0829
2	1,2,3,7,8-PeCDD	31.27	0.628	NO	8.3608e4	1.1141e6	10.000	-9.1	5.84	0.826	0.0482
3	1,2,3,4,7,8-HxCDD	34.62	1.239	NO	6.4208e4	7.4024e5	10.000	-10.8	8.87	0.972	0.0863
4	1,2,3,6,7,8-HxCDD	34.74	1.229	NO	6.5250e4	8.2514e5	10.000	-9.8	6.38	0.877	0.0560
5	1,2,3,7,8,9-HxCDD	35.04	1.280	NO	6.5625e4	8.4455e5	10.000	-11.1	8.86	0.874	0.0774
6	1,2,3,4,6,7,8-HpCDD	38.31	1.003	NO	4.8610e4	6.1293e5	10.000	-11.8	7.53	0.899	0.0677
7	OCDD	41.33	0.882	NO	7.7481e4	1.0101e6	20.000	-10.0	7.48	0.852	0.0638
8	2,3,7,8-TCDF	26.35	0.785	NO	2.6406e4	1.9981e6	2.000	-11.5	9.29	0.747	0.0693
9	1,2,3,7,8-PeCDF	30.11	1.623	NO	1.2008e5	1.4874e6	10.000	-8.0	8.18	0.877	0.0718
10	2,3,4,7,8-PeCDF	31.11	1.523	NO	1.2921e5	1.4756e6	10.000	-9.0	7.01	0.962	0.0675
11	1,2,3,4,7,8-HxCDF	33.69	1.227	NO	7.9886e4	9.5787e5	10.000	-9.4	8.23	0.920	0.0758
12	1,2,3,6,7,8-HxCDF	33.82	1.216	NO	8.7203e4	1.0114e6	10.000	-7.9	7.76	0.936	0.0727
13	2,3,4,6,7,8-HxCDF	34.51	1.231	NO	7.8454e4	8.8543e5	10.000	-8.9	8.41	0.973	0.0818

210414R1_3
1613 CS2 21C0104 ST210414R1-3 1613 CS2 21C0104
F5:Voltage SIR,EI+
457.738
5.262e+005
OCDD;41.33;36320.37;524611

210414R1_3
1613 CS2 21C0104 ST210414R1-3 1613 CS2 21C0104
F5 Voltage SIR,EI+
459.735
5.952e+005
OCDD;41.33;41160.32;590674

210414R1_3
1613 CS2 21C0104 ST210414R1-3 1613 CS2 21C0104
F5 Voltage SIR,EI+
469.778
6.712e+006
13C-OCDD;41.31;475660.44;6687746

210414R1_3
1613 CS2 21C0104 ST210414R1-3 1613 CS2 21C0104
F5 Voltage SIR,EI+
471.775
7.670e+006
13C-OCDD;41.31;534411.50;7624754

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
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Name: 210414R1_3, Date: 14-Apr-2021, Time: 11:26:41, ID: ST210414R1-3 1613 CS2 21C0104, Description: 1613 CS2 21C0104
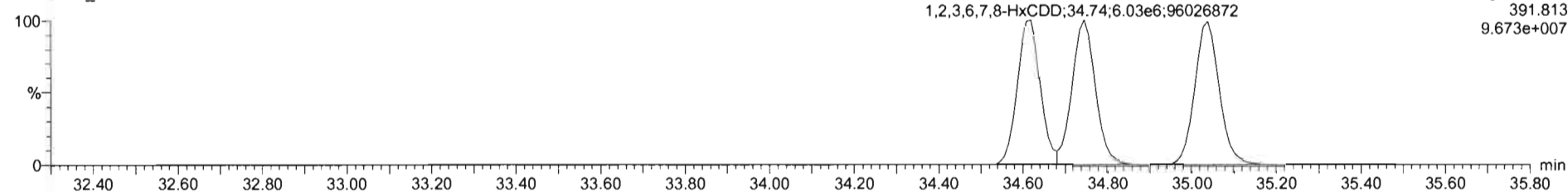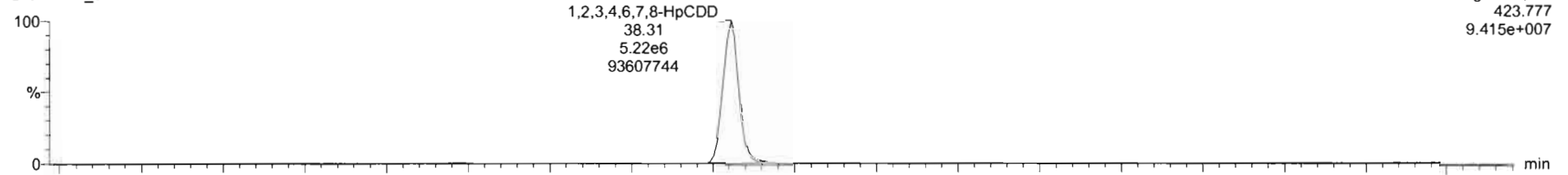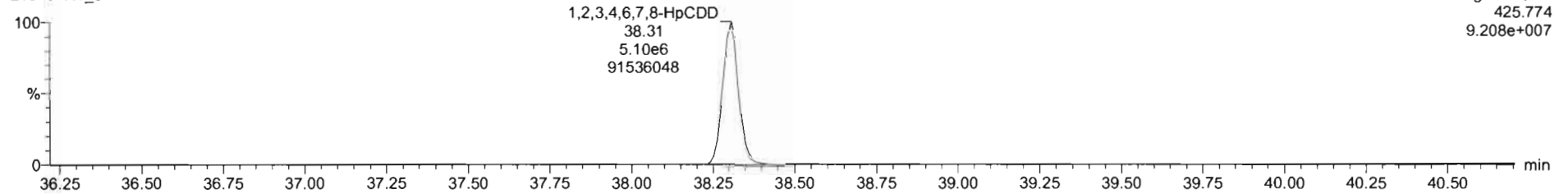
2,3,7,8-TCDF

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

DPE1

Dataset: Untitled

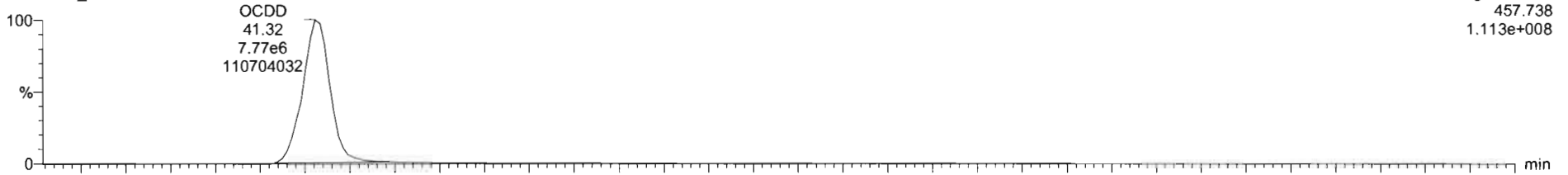Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_3, Date: 14-Apr-2021, Time: 11:26:41, ID: ST210414R1-3 1613 CS2 21C0104, Description: 1613 CS2 21C0104

1st Func. Penta-Furans
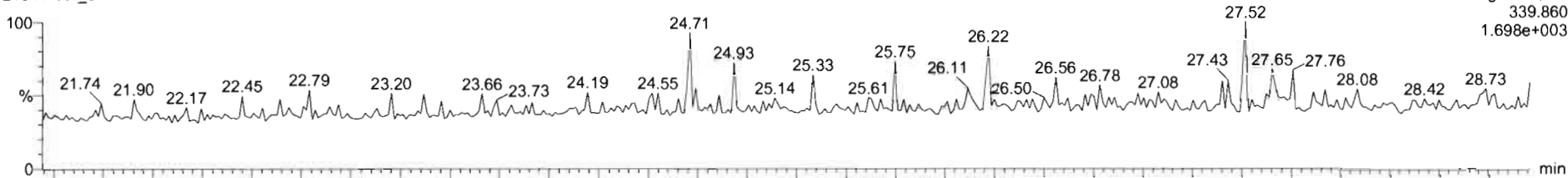
DPE6

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_3, Date: 14-Apr-2021, Time: 11:26:41, ID: ST210414R1-3 1613 CS2 21C0104, Description: 1613 CS2 21C0104
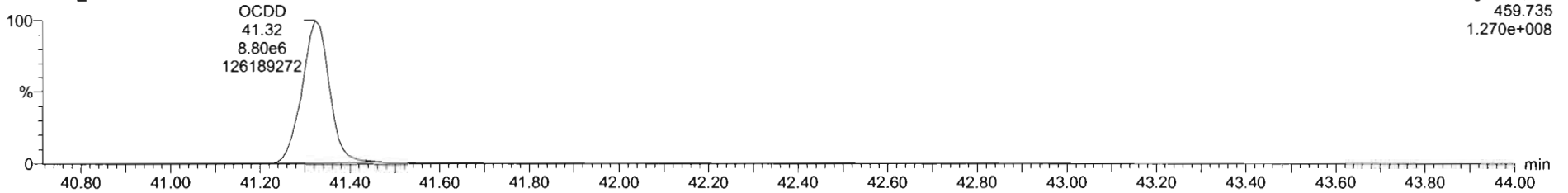
1,2,3,7,8-PeCDF

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

DPE2

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_3, Date: 14-Apr-2021, Time: 11:26:41, ID: ST210414R1-3 1613 CS2 21C0104, Description: 1613 CS2 21C0104

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

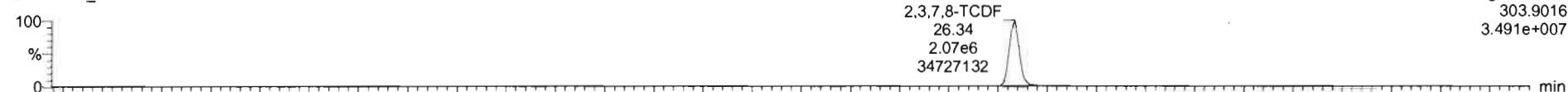**13C-1,2,3,4,7,8-HxCDF**

DPE3

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
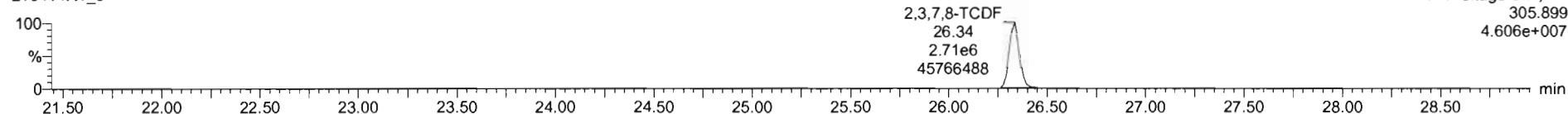Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_3, Date: 14-Apr-2021, Time: 11:26:41, ID: ST210414R1-3 1613 CS2 21C0104, Description: 1613 CS2 21C0104

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

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

DPE4

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_3, Date: 14-Apr-2021, Time: 11:26:41, ID: ST210414R1-3 1613 CS2 21C0104, Description: 1613 CS2 21C0104
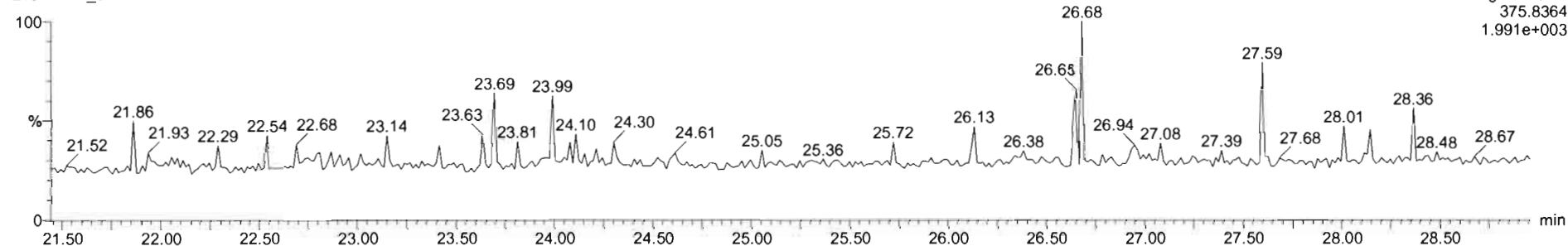
OCDF

13C-OCDF

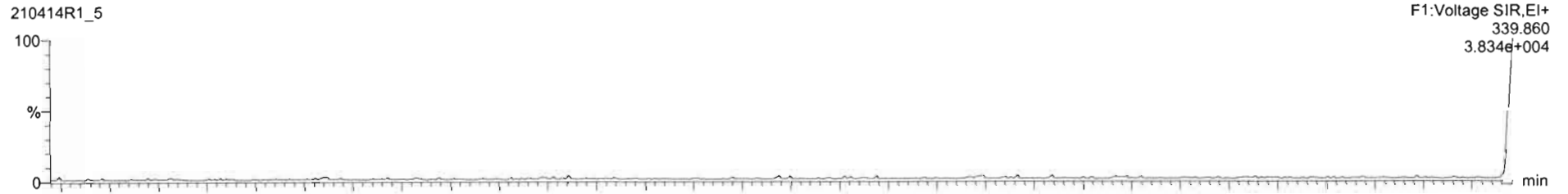### DPE5

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_3, Date: 14-Apr-2021, Time: 11:26:41, ID: ST210414R1-3 1613 CS2 21C0104, Description: 1613 CS2 21C0104

PFK1

PFK2

PFK3

PFK4

PFK5

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time
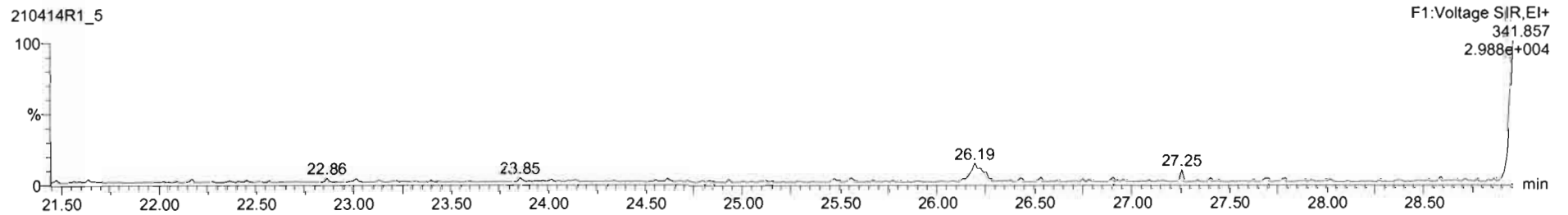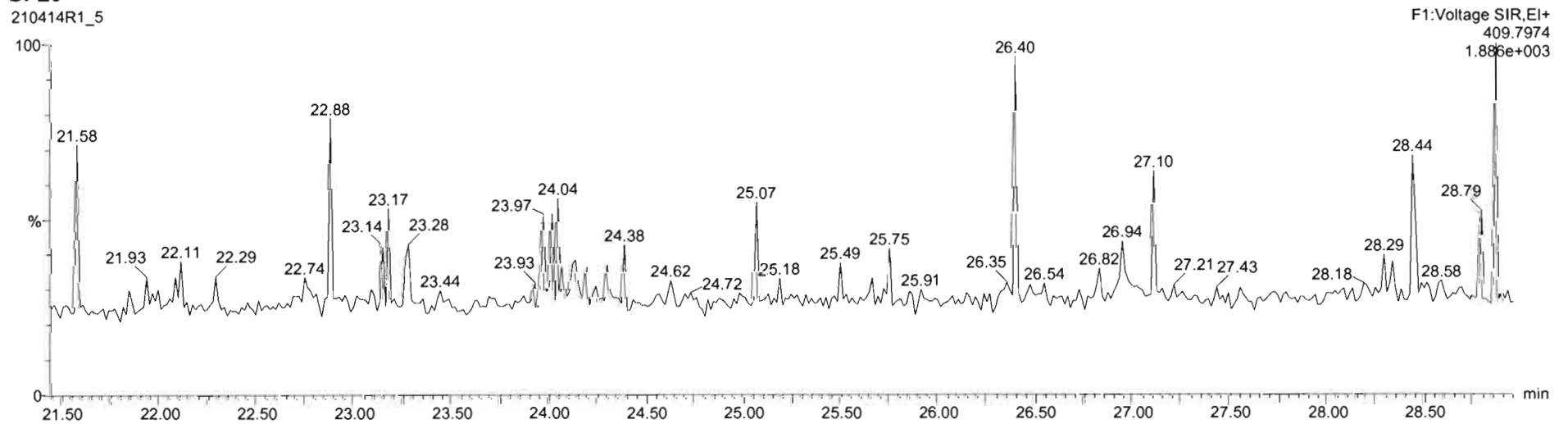
Name: 210414R1_4, Date: 14-Apr-2021, Time: 12:13:44, ID: ST210414R1-4 1613 CS4 21C0106, Description: 1613 CS4 21C0106

2,3,7,8-TCDD

210414R1_4 — F1:Voltage SIR,EI+ 319.8965 5.014e+006
2,3,7,8-TCDD 26.93 2.83e5 4990704
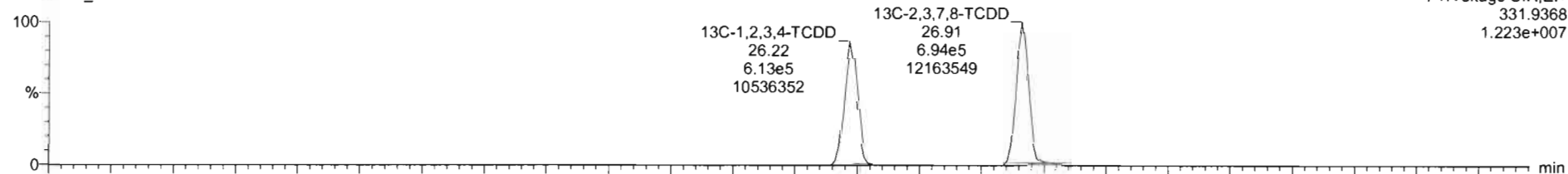
210414R1_4 — F1:Voltage SIR,EI+ 321.894 6.537e+006
2,3,7,8-TCDD 26.93 3.68e5 6504980

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

210414R1_4 — F1:Voltage SIR,EI+ 331.9368 1.223e+007
13C-1,2,3,4-TCDD 26.22 6.13e5 10536352
13C-2,3,7,8-TCDD 26.91 6.94e5 12163549

210414R1_4 — F1:Voltage SIR,EI+ 333.934 1.612e+007
13C-1,2,3,4-TCDD 26.22 7.87e5 13476094
13C-2,3,7,8-TCDD 26.91 9.01e5 16037899

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_4, Date: 14-Apr-2021, Time: 12:13:44, ID: ST210414R1-4 1613 CS4 21C0106, Description: 1613 CS4 21C0106
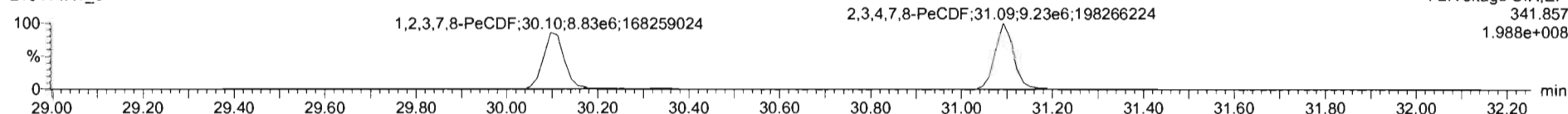
37Cl-2,3,7,8-TCDD

210414R1_4

F1:Voltage SIR,EI+
327.884
2.089e+007

37Cl-2,3,7,8-TCDD
26.93
1.19e6
20784396

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

210414R1_4

F1:Voltage SIR,EI+
331.9368
1.223e+007

13C-1,2,3,4-TCDD
26.22
6.13e5
10536352

13C-2,3,7,8-TCDD
26.91
6.94e5
12163549

210414R1_4

F1:Voltage SIR,EI+
333.934
1.612e+007

13C-1,2,3,4-TCDD
26.22
7.87e5
13476094

13C-2,3,7,8-TCDD
26.91
9.01e5
16037899

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

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Name: 210414R1_4, Date: 14-Apr-2021, Time: 12:13:44, ID: ST210414R1-4 1613 CS4 21C0106, Description: 1613 CS4 21C0106

1,2,3,7,8-PeCDD

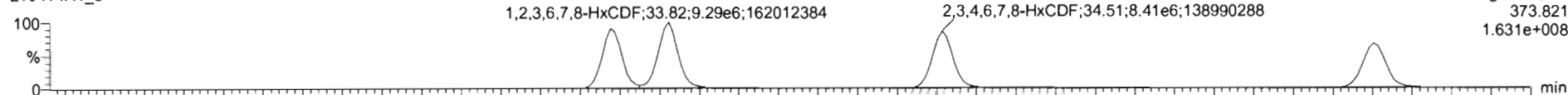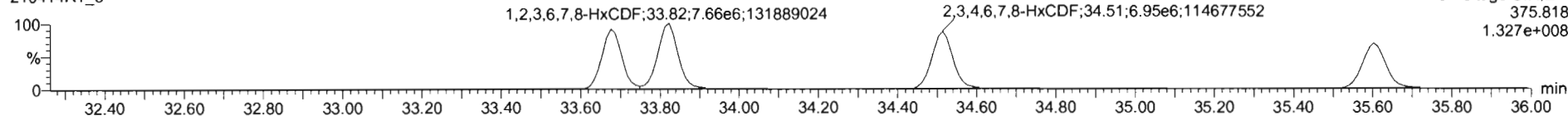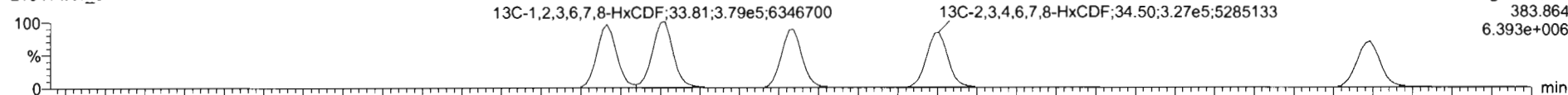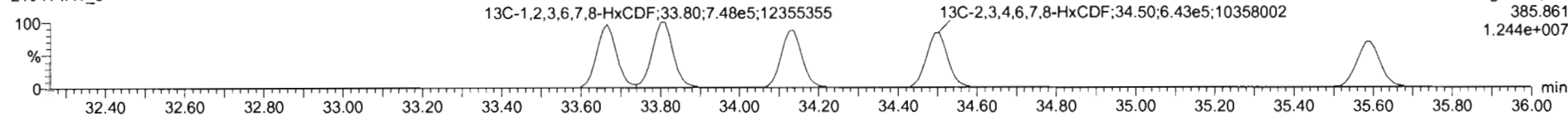210414R1_4

F2:Voltage SIR,EI+
353.8576
1.715e+007

1,2,3,7,8-PeCDD
31.26
8.40e5
17104628
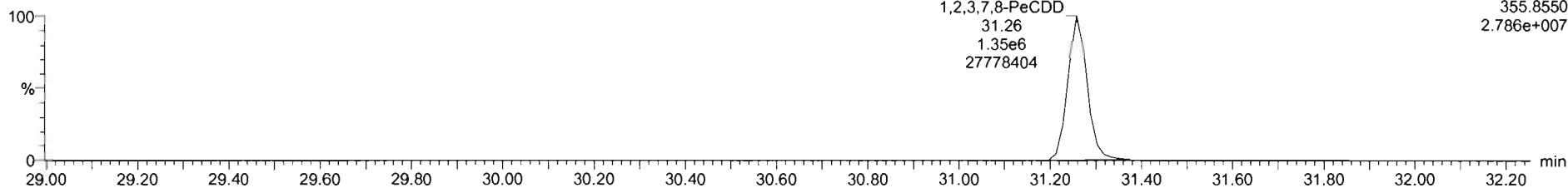
210414R1_4

F2:Voltage SIR,EI+
355.8550
2.786e+007

1,2,3,7,8-PeCDD
31.26
1.35e6
27778404

13C-1,2,3,7,8-PeCDD
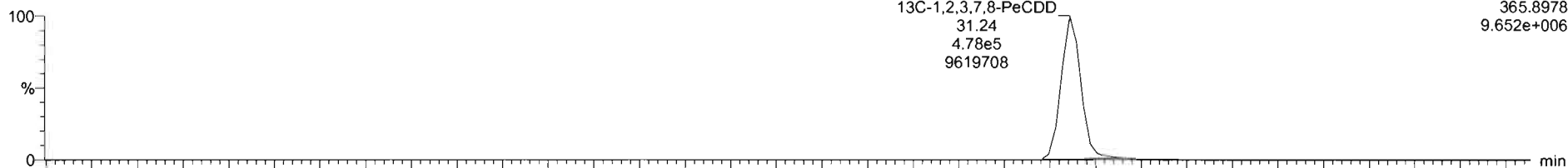
210414R1_4

F2:Voltage SIR,EI+
365.8978
9.652e+006

13C-1,2,3,7,8-PeCDD
31.24
4.78e5
9619708
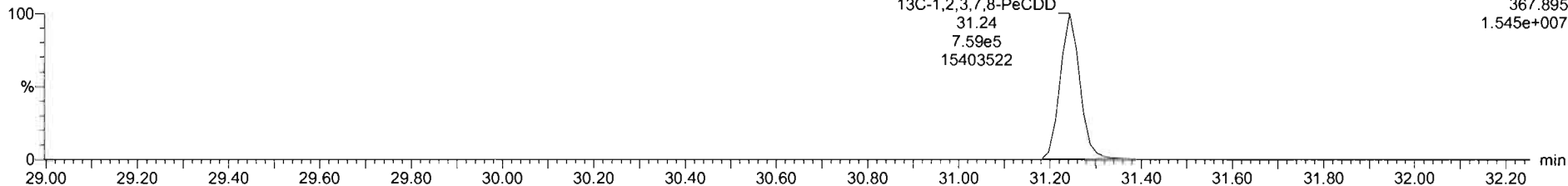
210414R1_4

F2:Voltage SIR,EI+
367.895
1.545e+007

13C-1,2,3,7,8-PeCDD
31.24
7.59e5
15403522
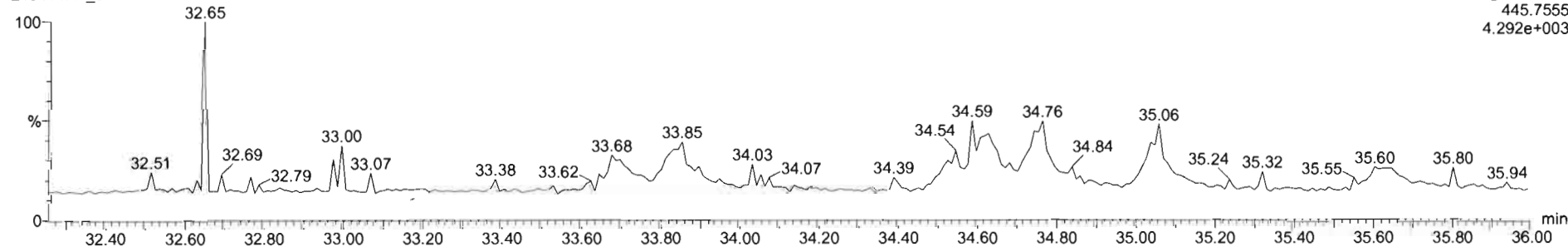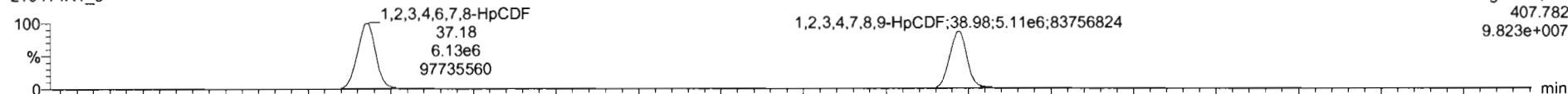
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Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_4, Date: 14-Apr-2021, Time: 12:13:44, ID: ST210414R1-4 1613 CS4 21C0106, Description: 1613 CS4 21C0106
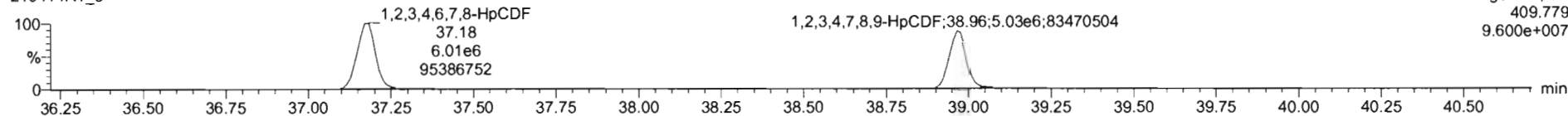
1,2,3,4,7,8-HxCDD

210414R1_4

1,2,3,4,7,8-HxCDD
34.61
9.84e5
15802659

1,2,3,6,7,8-HxCDD;34.73;9.91e5;15735915

F3:Voltage SIR,EI+
389.816
1.586e+007

210414R1_4

1,2,3,6,7,8-HxCDD;34.73;8.03e5;12687317

1,2,3,7,8,9-HxCDD
35.03
8.27e5
12705295

F3:Voltage SIR,EI+
391.813
1.282e+007

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

210414R1_4

13C-1,2,3,6,7,8-HxCDD;34.72;5.26e5;8205292

F3:Voltage SIR,EI+
401.856
8.269e+006

210414R1_4

13C-1,2,3,6,7,8-HxCDD;34.72;4.21e5;6619432

13C-1,2,3,4,7,8-HxCDD
34.59
3.62e5
5779904

F3:Voltage SIR,EI+
403.853
6.667e+006

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_4, Date: 14-Apr-2021, Time: 12:13:44, ID: ST210414R1-4 1613 CS4 21C0106, Description: 1613 CS4 21C0106

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

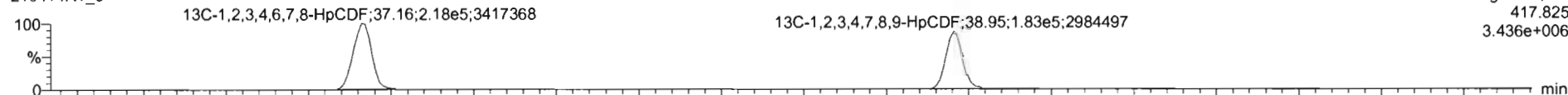210414R1_4   F4:Voltage SIR,EI+
                                 1,2,3,4,6,7,8-HpCDD   423.777
                                       38.30   1.233e+007
                                      6.74e5
                                     12260239

210414R1_4   F4:Voltage SIR,EI+
                                 1,2,3,4,6,7,8-HpCDD   425.774
                                       38.30   1.217e+007
                                      6.63e5
                                     12105019

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

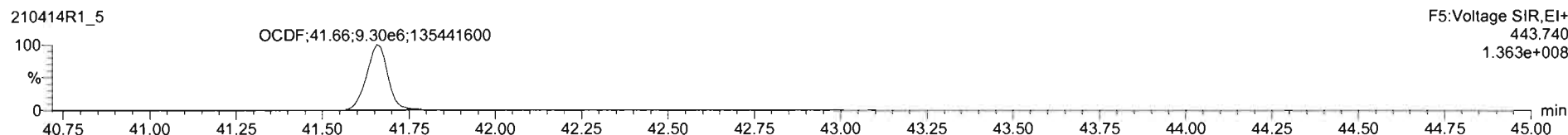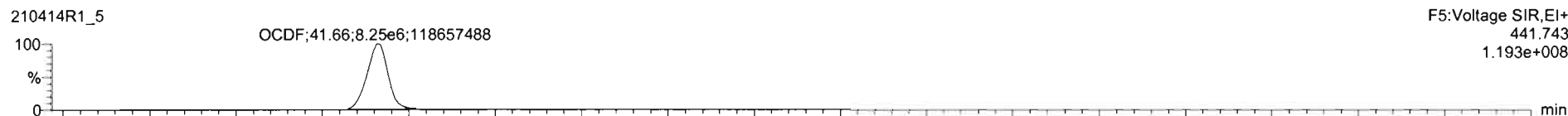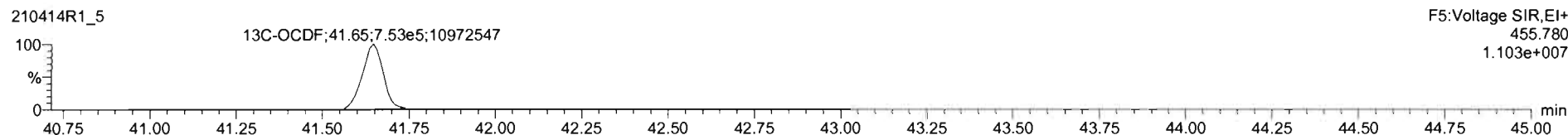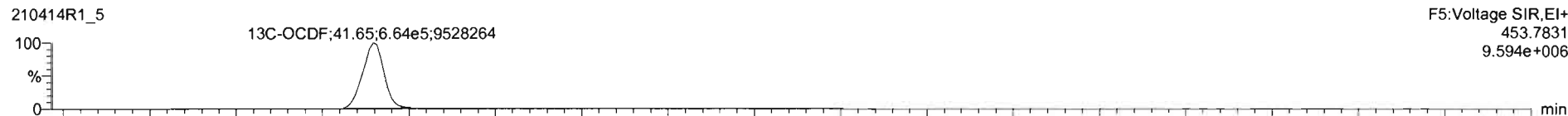210414R1_4   F4:Voltage SIR,EI+
                               13C-1,2,3,4,6,7,8-HpCDD   435.817
                                       38.28   6.431e+006
                                      3.49e5
                                     6405617

210414R1_4   F4:Voltage SIR,EI+
                               13C-1,2,3,4,6,7,8-HpCDD   437.814
                                       38.28   6.076e+006
                                      3.31e5
                                     6046078

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_4, Date: 14-Apr-2021, Time: 12:13:44, ID: ST210414R1-4 1613 CS4 21C0106, Description: 1613 CS4 21C0106
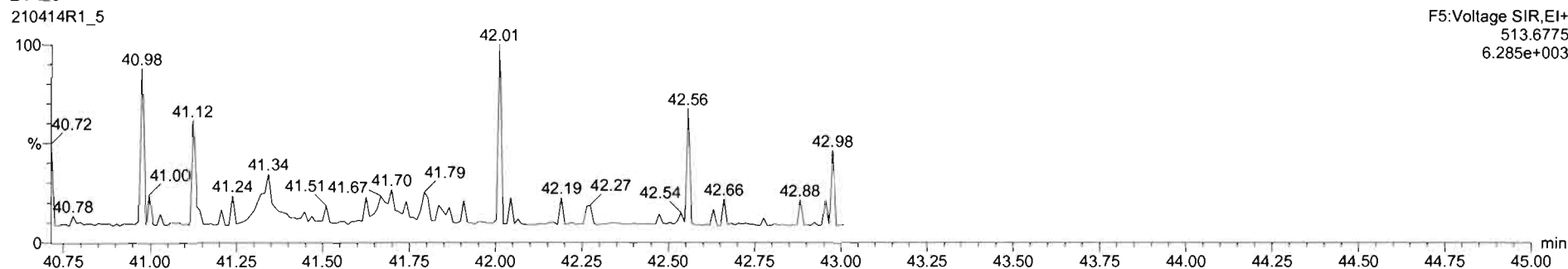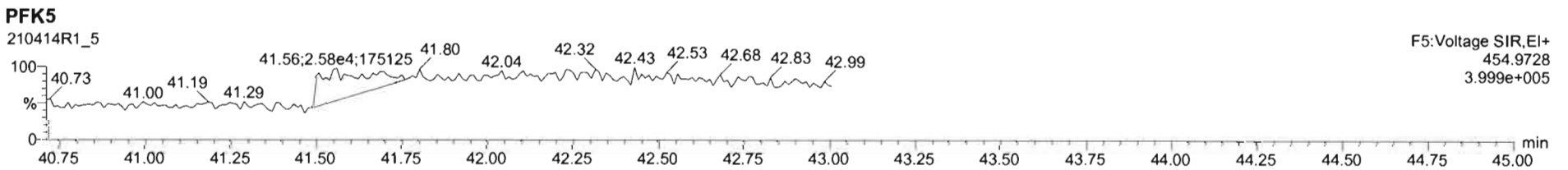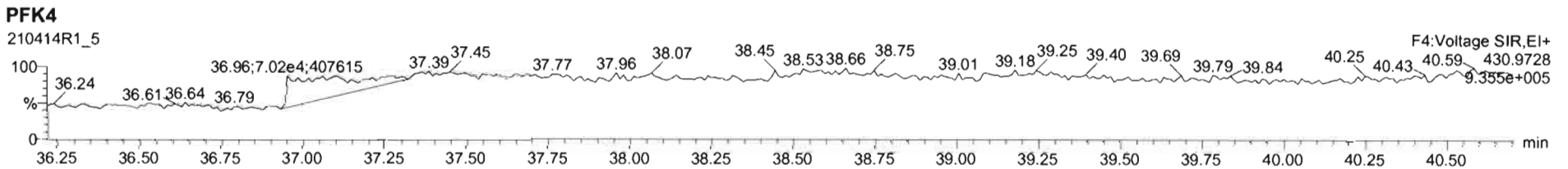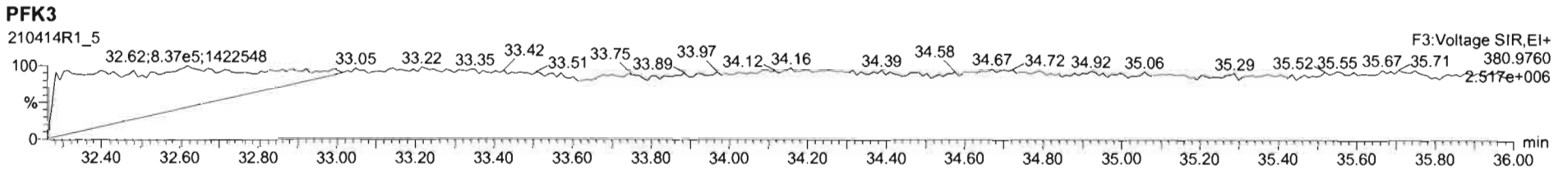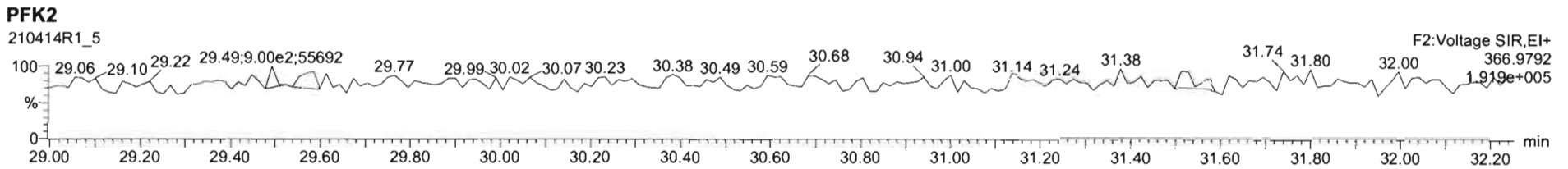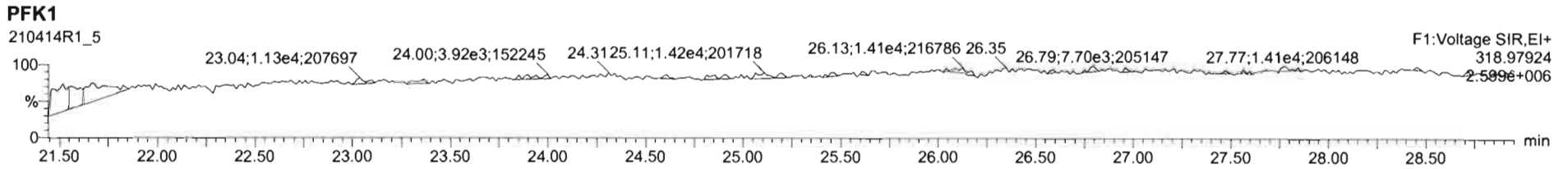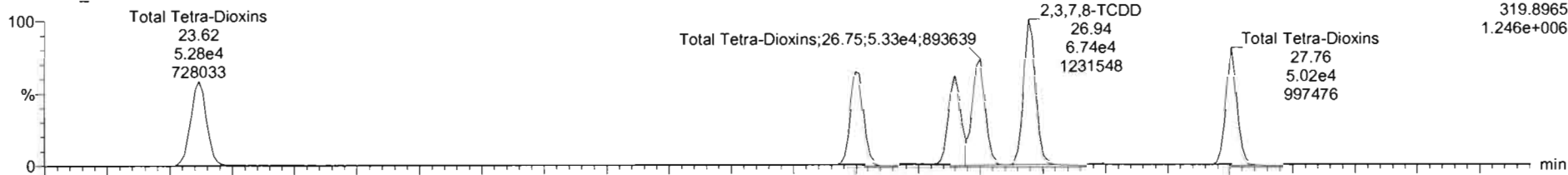
OCDD

13C-OCDD

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_4, Date: 14-Apr-2021, Time: 12:13:44, ID: ST210414R1-4 1613 CS4 21C0106, Description: 1613 CS4 21C0106

2,3,7,8-TCDF

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

DPE1

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
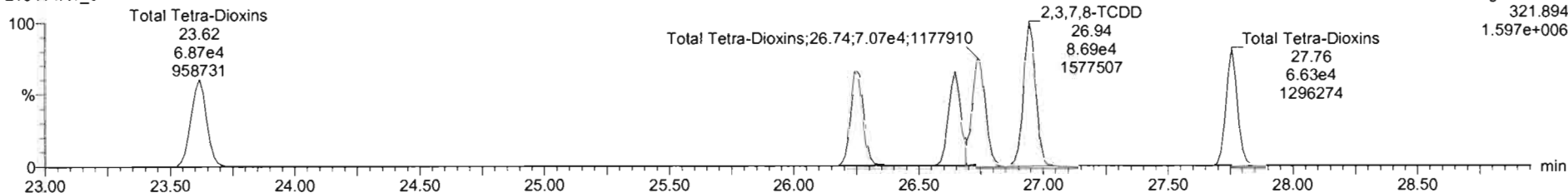Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_4, Date: 14-Apr-2021, Time: 12:13:44, ID: ST210414R1-4 1613 CS4 21C0106, Description: 1613 CS4 21C0106

1st Func. Penta-Furans

DPE6
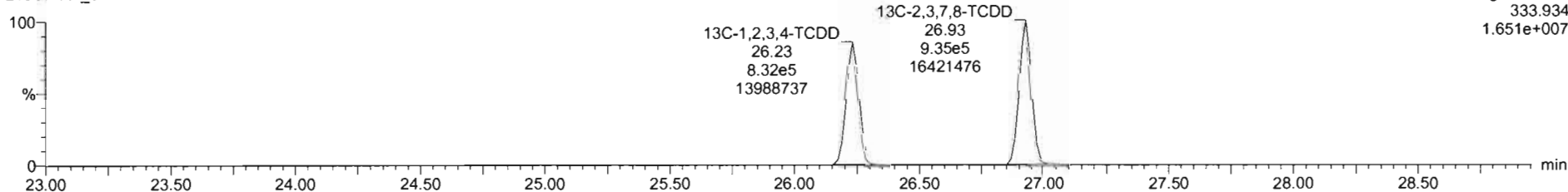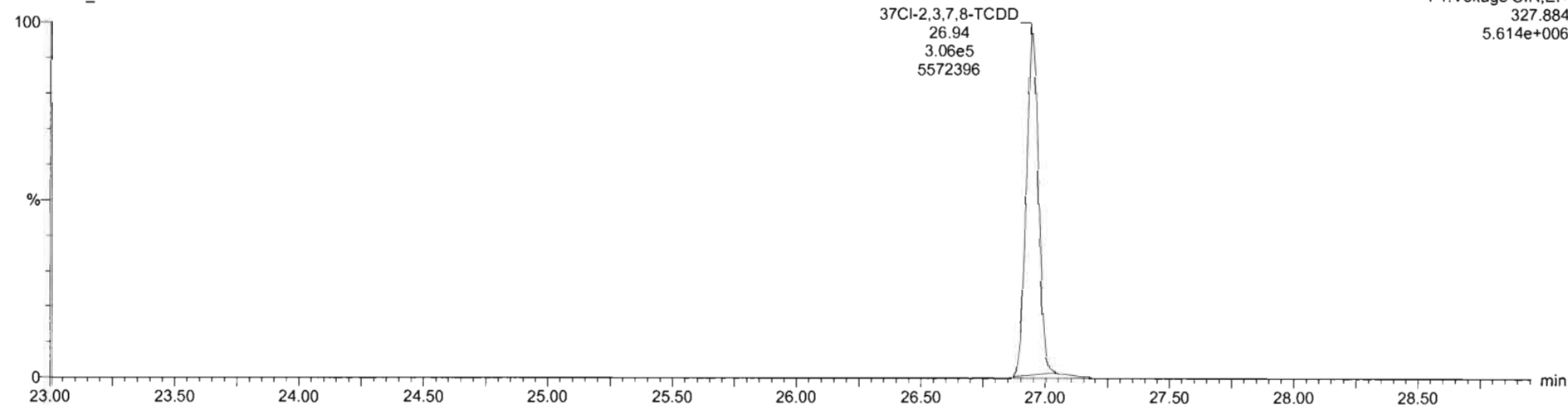
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Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_4, Date: 14-Apr-2021, Time: 12:13:44, ID: ST210414R1-4 1613 CS4 21C0106, Description: 1613 CS4 21C0106

1,2,3,7,8-PeCDF

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

DPE2

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_4, Date: 14-Apr-2021, Time: 12:13:44, ID: ST210414R1-4 1613 CS4 21C0106, Description: 1613 CS4 21C0106
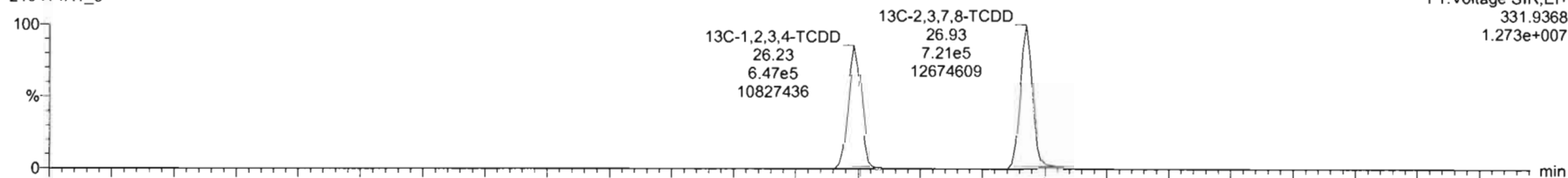
1,2,3,4,7,8-HxCDF

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

DPE3
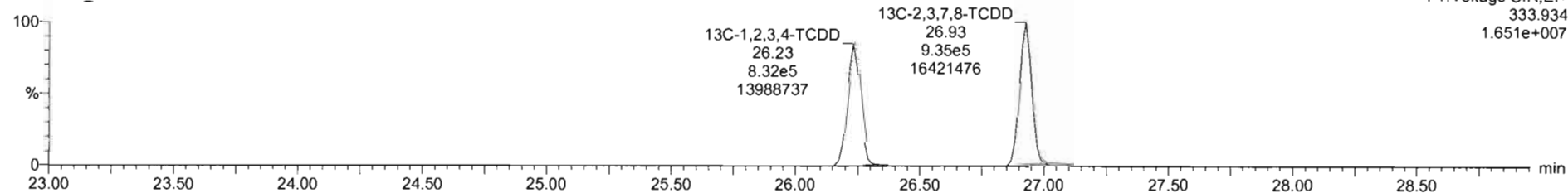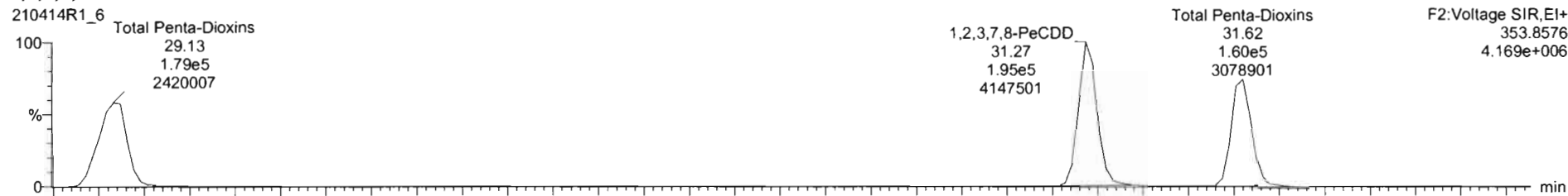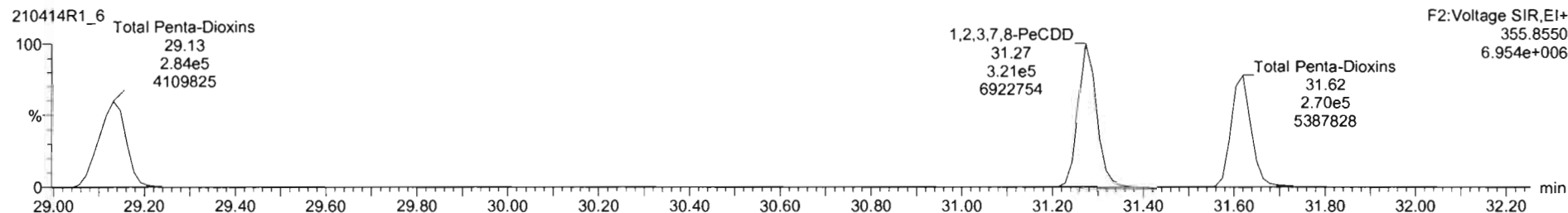
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Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_4, Date: 14-Apr-2021, Time: 12:13:44, ID: ST210414R1-4 1613 CS4 21C0106, Description: 1613 CS4 21C0106

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

210414R1_4   F4:Voltage SIR,EI+
1,2,3,4,6,7,8-HpCDF;37.17;8.11e5;12990209   1,2,3,4,7,8,9-HpCDF;38.97;6.76e5;11605694   407.782
                                                                                                         1.305e+007

210414R1_4   F4:Voltage SIR,EI+
1,2,3,4,6,7,8-HpCDF   1,2,3,4,7,8,9-HpCDF;38.97;6.68e5;11241710   409.779
37.17   1.271e+007
8.01e5
12651739

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

210414R1_4   F4:Voltage SIR,EI+
13C-1,2,3,4,6,7,8-HpCDF;37.15;2.13e5;3378011   13C-1,2,3,4,7,8,9-HpCDF;38.95;1.76e5;2952355   417.825
                                                                                                         3.398e+006

210414R1_4   F4:Voltage SIR,EI+
13C-1,2,3,4,6,7,8-HpCDF   13C-1,2,3,4,7,8,9-HpCDF;38.95;4.04e5;6769748   419.822
37.16   7.587e+006
4.81e5
7532129

DPE4

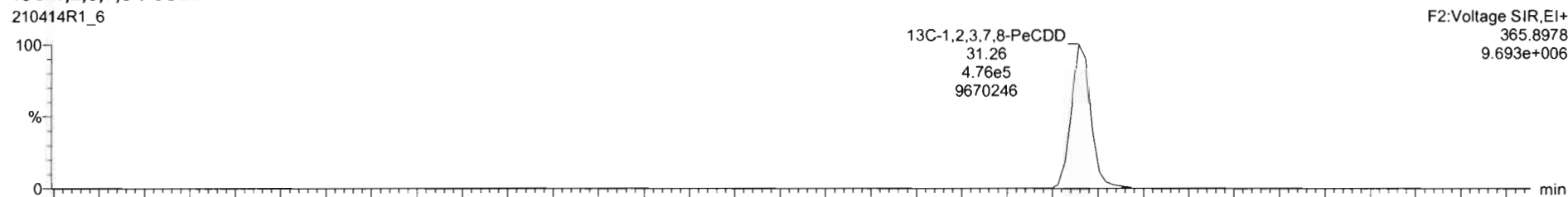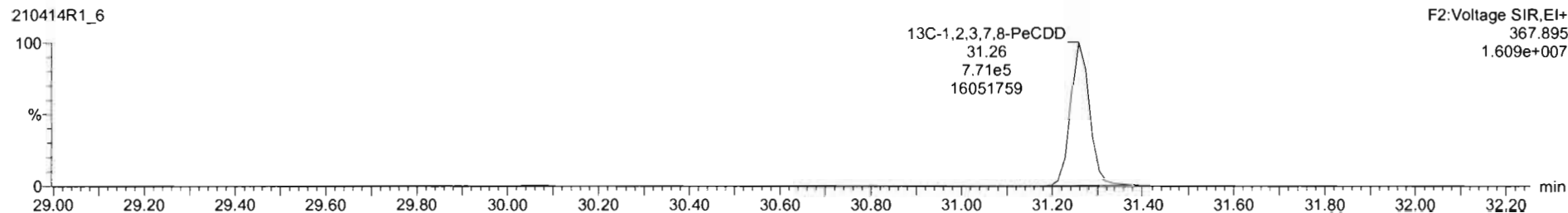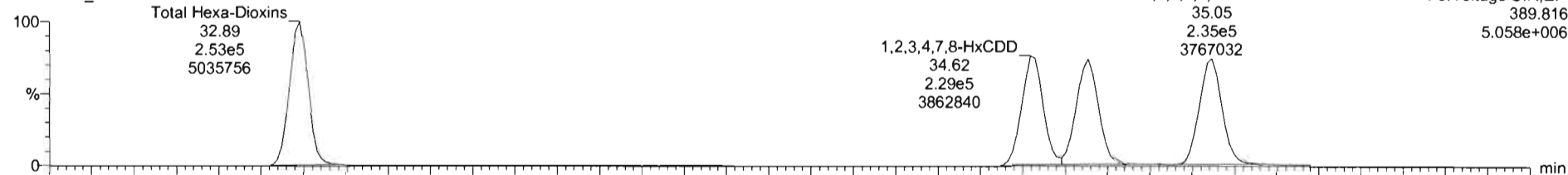210414R1_4   F4:Voltage SIR,EI+
                                                                                                         479.7165
                                                                                                         2.065e+003

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
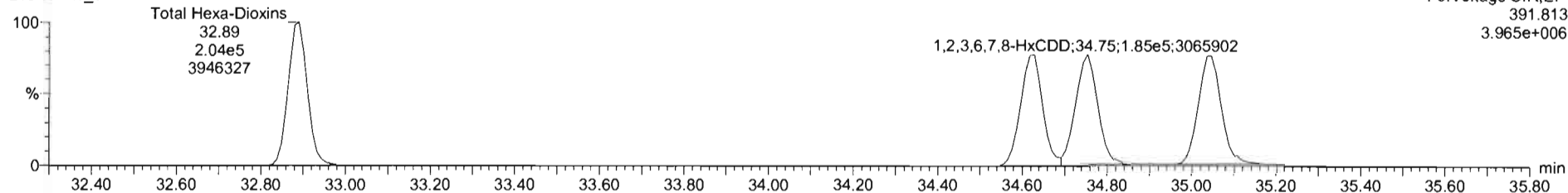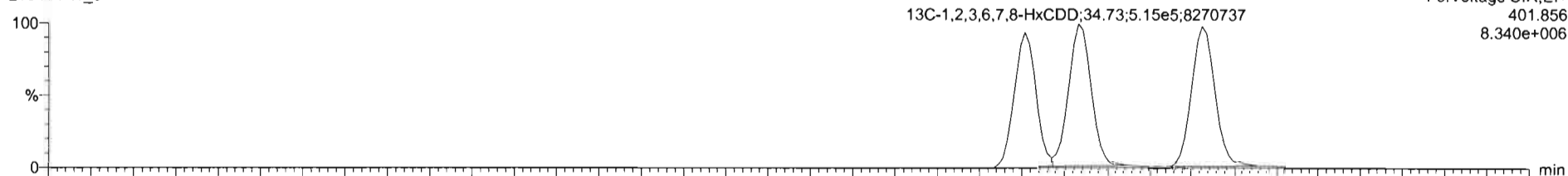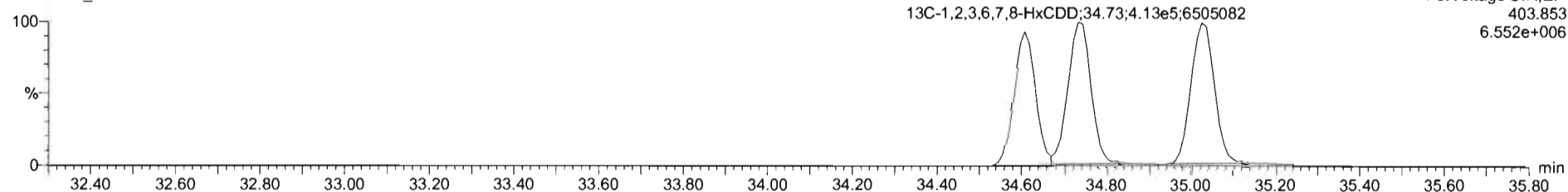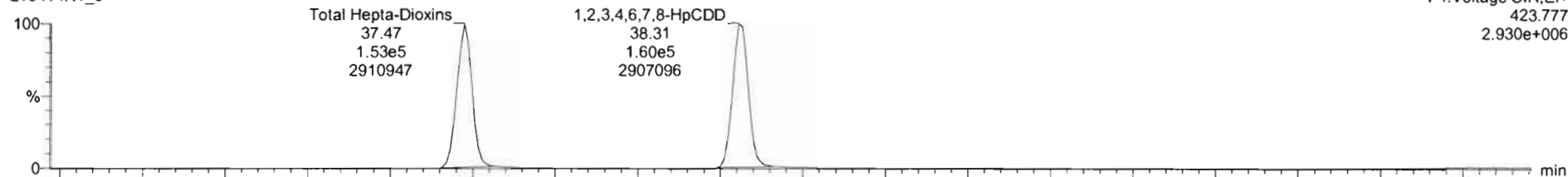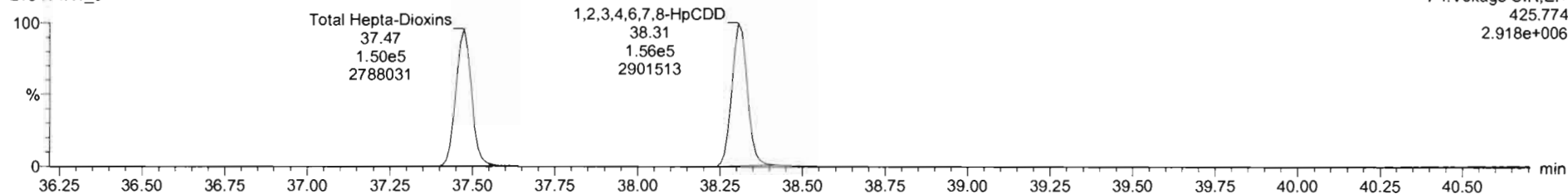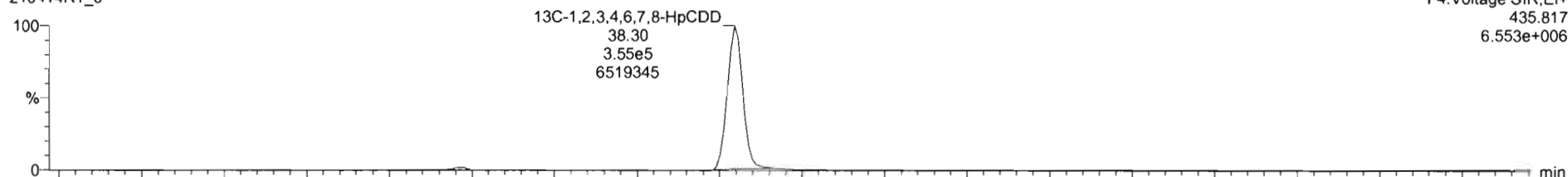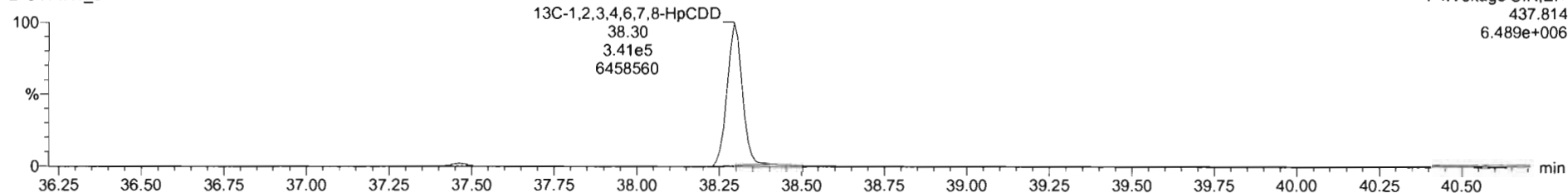Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_4, Date: 14-Apr-2021, Time: 12:13:44, ID: ST210414R1-4 1613 CS4 21C0106, Description: 1613 CS4 21C0106
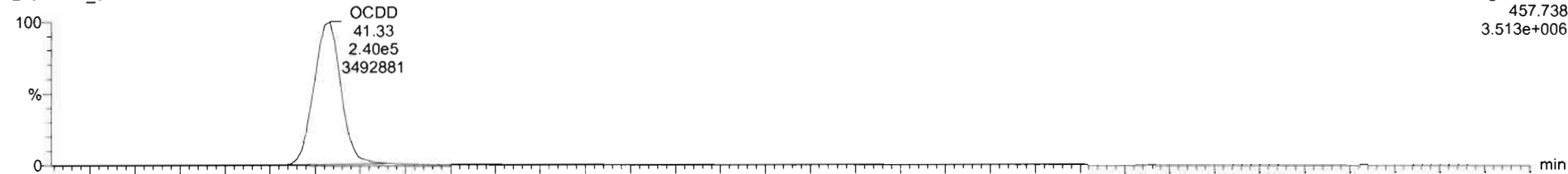
OCDF

13C-OCDF

DPE5

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
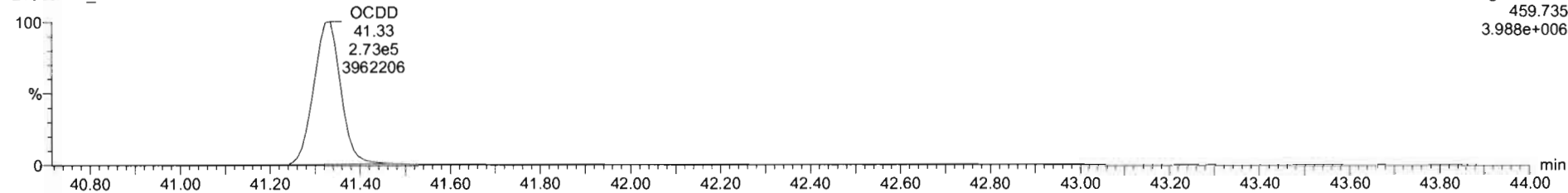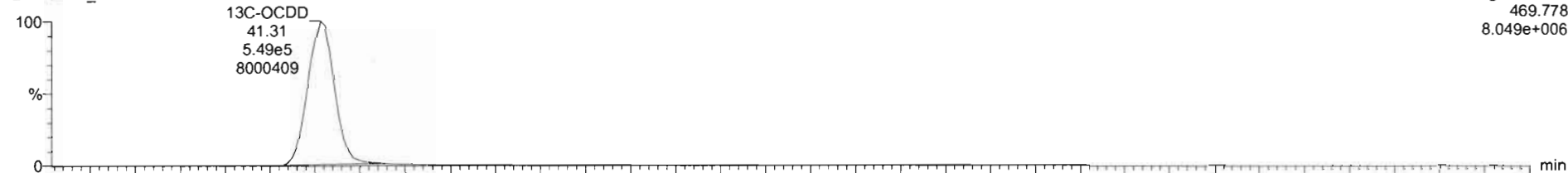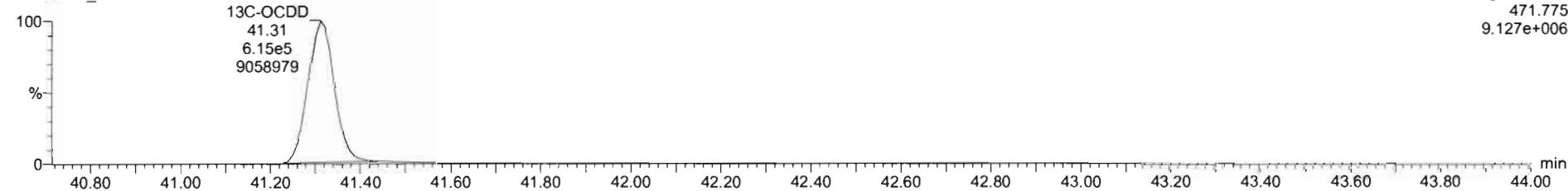Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_4, Date: 14-Apr-2021, Time: 12:13:44, ID: ST210414R1-4 1613 CS4 21C0106, Description: 1613 CS4 21C0106

PFK1

210414R1_4

F1:Voltage SIR,EI+
318.97924
2.504e+006

21.65 21.96 22.34 22.54 22.82 23.26 23.62 23.99 24.31 24.86 24.98 25.14 25.33 25.72 25.92 26.25 26.72 26.78 27.19 27.27 27.67 27.76 28.23 28.69

PFK2

210414R1_4

F2:Voltage SIR,EI+
366.9792
1.744e+005

29.13 29.30 29.64;1.20e3;42266 29.87;7.27e2;48208 30.11 30.25 30.47;2.96e3;42816 30.75 30.91 31.06 31.23;1.33e3;30993 31.66 31.71 32.12

PFK3

210414R1_4

F3:Voltage SIR,EI+
380.9760
2.361e+006

32.73;5.42e5;490405 33.03 33.18 33.31 33.35 33.50 33.69 33.86 33.91 34.10 34.13 34.31 34.37 34.53 34.82 34.94 34.97 35.17 35.20 35.48 35.56 35.64 35.68

PFK4

210414R1_4

F4:Voltage SIR,EI+
430.9728
8.664e+005

36.35 36.70;6.95e4;210592 37.07 37.13 37.36 37.64 37.70 37.84 38.07 38.12 38.37 38.49 38.59 38.85 38.99 39.26 39.47 39.54 39.76 39.97 40.10 40.29 40.56

PFK5

210414R1_4

F5:Voltage SIR,EI+
454.9728
4.246e+005

40.89 41.10 41.20 41.51;2.69e4;147525 41.73 41.99 42.12 42.31 42.38 42.61 42.65 42.85
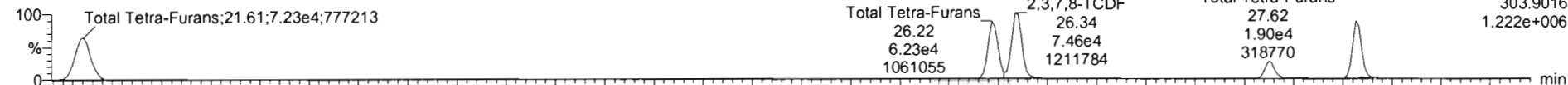
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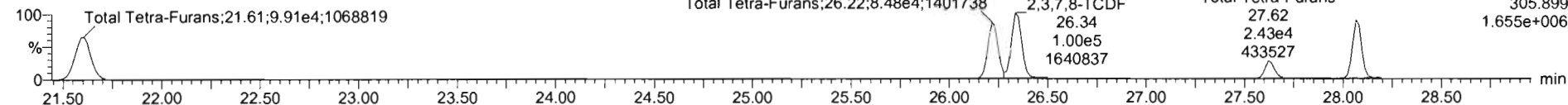Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_5, Date: 14-Apr-2021, Time: 12:59:55, ID: ST210414R1-5 1613 CS5 21C0107, Description: 1613 CS5 21C0107
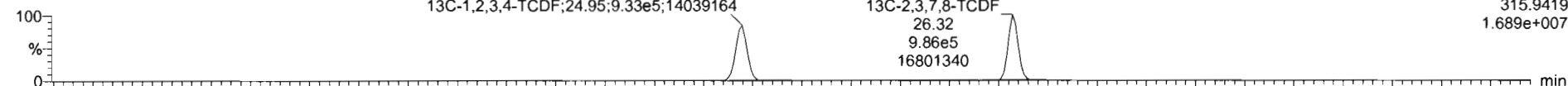
2,3,7,8-TCDD

13C-2,3,7,8-TCDD
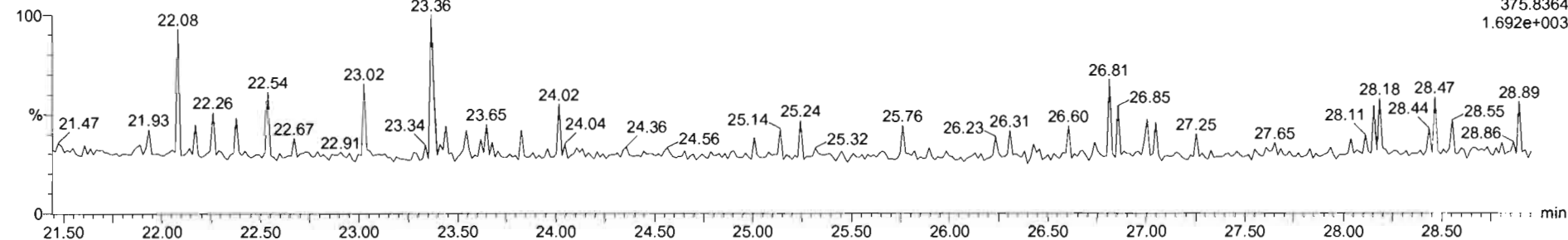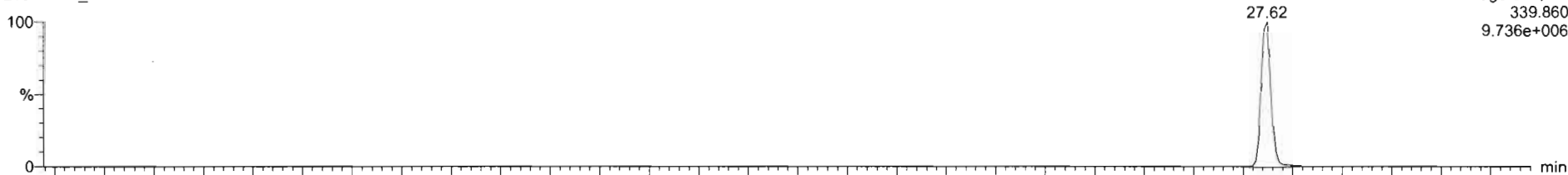
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Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_5, Date: 14-Apr-2021, Time: 12:59:55, ID: ST210414R1-5 1613 CS5 21C0107, Description: 1613 CS5 21C0107

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

210414R1_5

F1:Voltage SIR,EI+
327.884
9.592e+007

37Cl-2,3,7,8-TCDD
26.94
5.63e6
95445000

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

210414R1_5

F1:Voltage SIR,EI+
331.9368
1.052e+007

13C-1,2,3,4-TCDD
26.22
5.16e5
8319899

13C-2,3,7,8-TCDD
26.91
6.42e5
10455519

210414R1_5

F1:Voltage SIR,EI+
333.934
1.367e+007

13C-1,2,3,4-TCDD
26.22
6.73e5
10749331

13C-2,3,7,8-TCDD
26.91
8.29e5
13590412

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
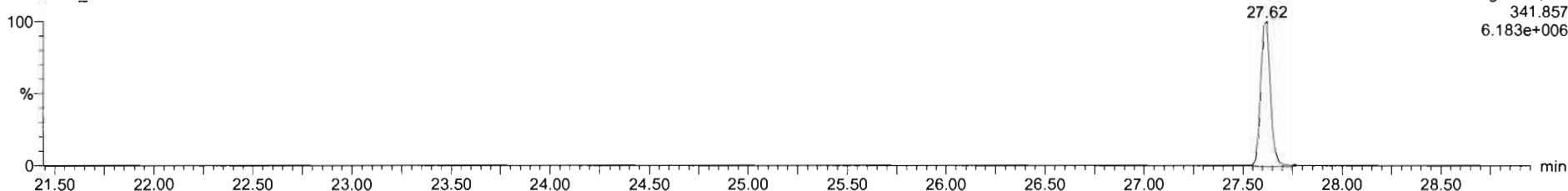Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_5, Date: 14-Apr-2021, Time: 12:59:55, ID: ST210414R1-5 1613 CS5 21C0107, Description: 1613 CS5 21C0107
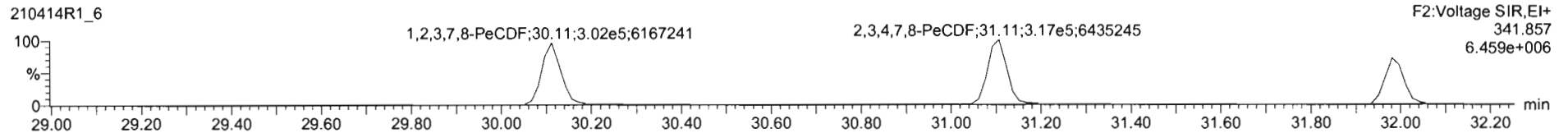
1,2,3,7,8-PeCDD

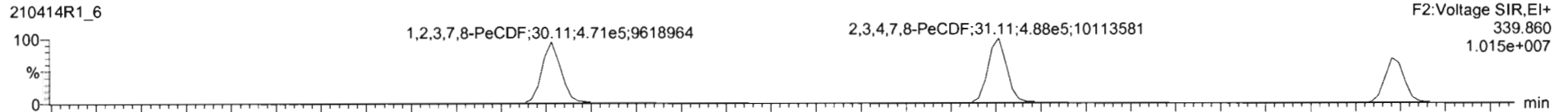**13C-1,2,3,7,8-PeCDD**
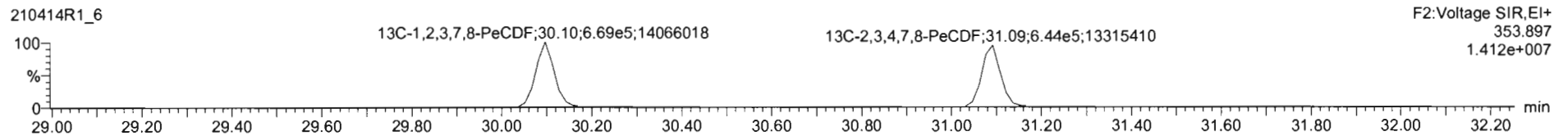
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Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_5, Date: 14-Apr-2021, Time: 12:59:55, ID: ST210414R1-5 1613 CS5 21C0107, Description: 1613 CS5 21C0107

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

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

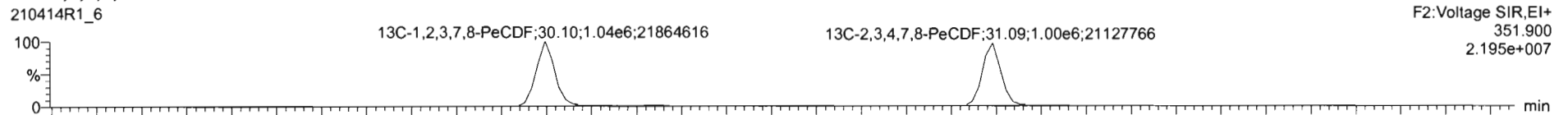Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

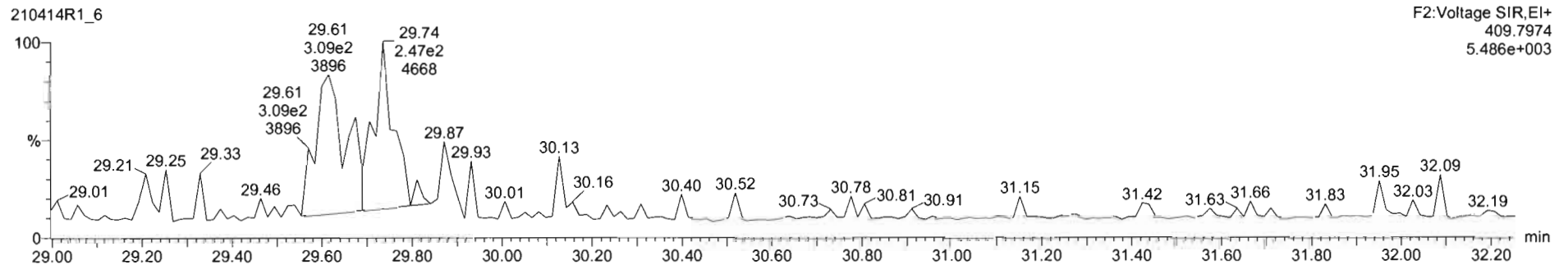**Name: 210414R1_5, Date: 14-Apr-2021, Time: 12:59:55, ID: ST210414R1-5 1613 CS5 21C0107, Description: 1613 CS5 21C0107**

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

210414R1_5

1,2,3,4,6,7,8-HpCDD
38.31
5.22e6
93607744

F4:Voltage SIR,EI+
423.777
9.415e+007

210414R1_5

1,2,3,4,6,7,8-HpCDD
38.31
5.10e6
91536048

F4:Voltage SIR,EI+
425.774
9.208e+007

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

210414R1_5

13C-1,2,3,4,6,7,8-HpCDD
38.29
3.67e5
6464869
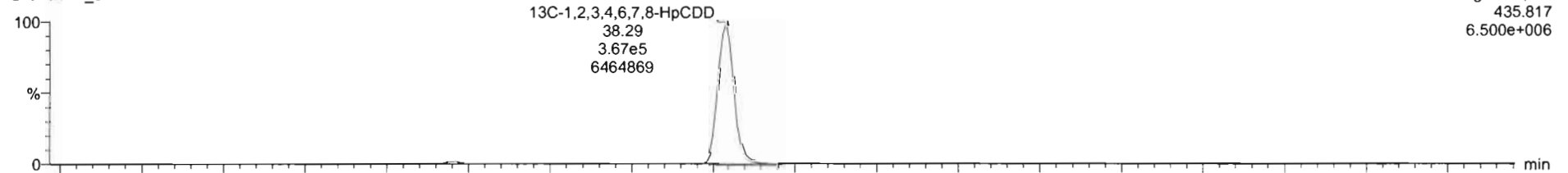
F4:Voltage SIR,EI+
435.817
6.500e+006

210414R1_5

13C-1,2,3,4,6,7,8-HpCDD
38.29
3.52e5
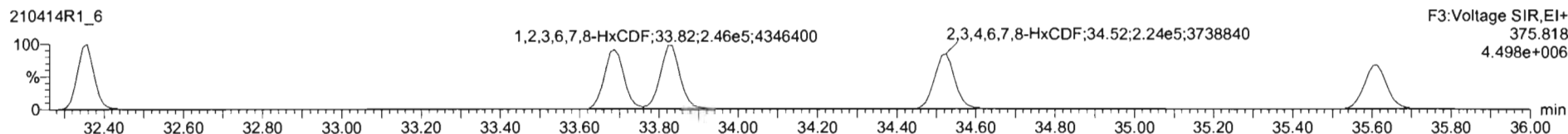6185917
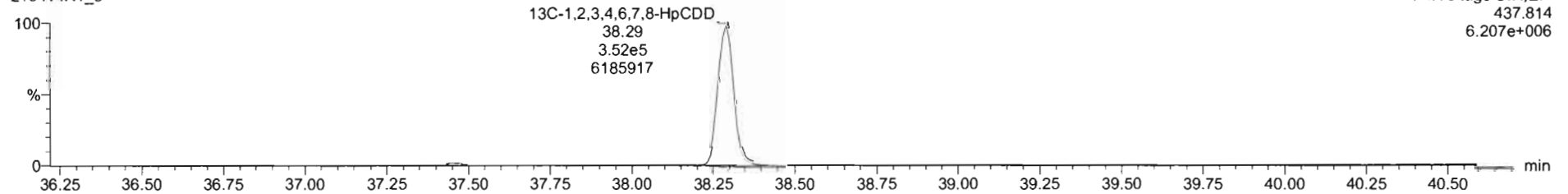
F4:Voltage SIR,EI+
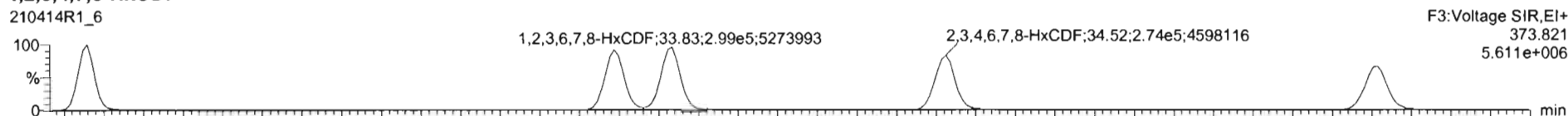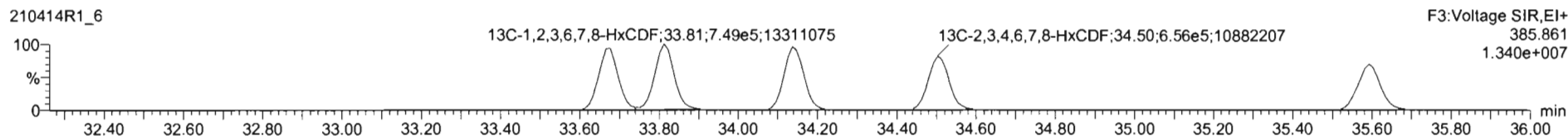437.814
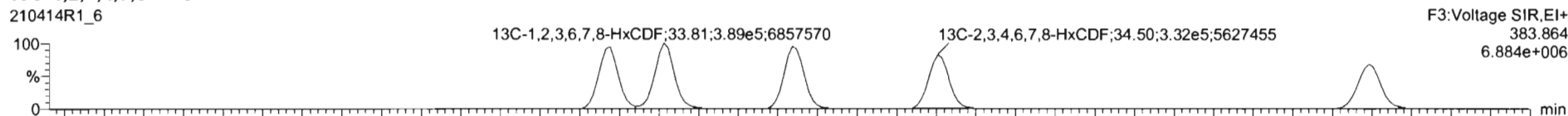6.207e+006

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
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Name: 210414R1_5, Date: 14-Apr-2021, Time: 12:59:55, ID: ST210414R1-5 1613 CS5 21C0107, Description: 1613 CS5 21C0107

OCDD

13C-OCDD
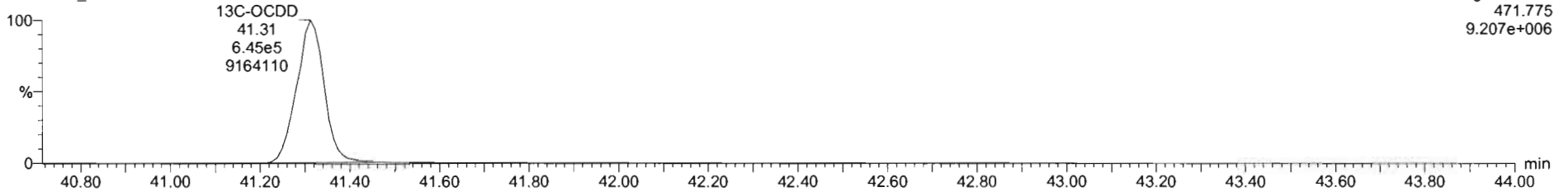
Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_5, Date: 14-Apr-2021, Time: 12:59:55, ID: ST210414R1-5 1613 CS5 21C0107, Description: 1613 CS5 21C0107
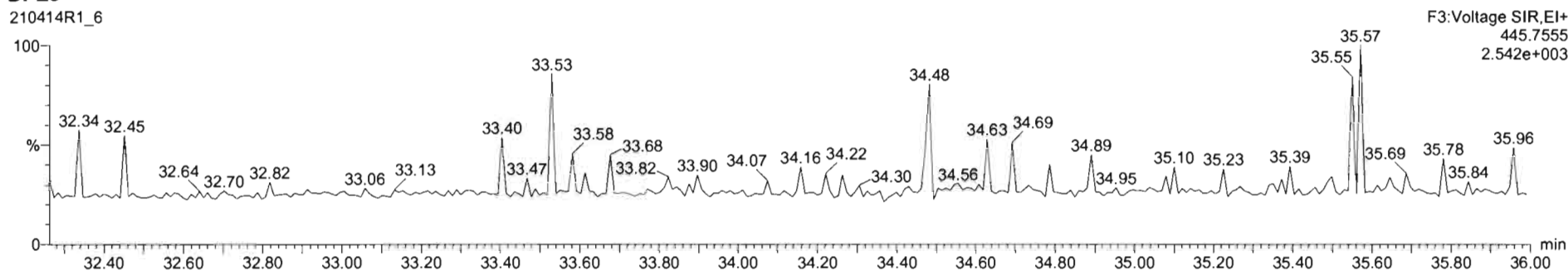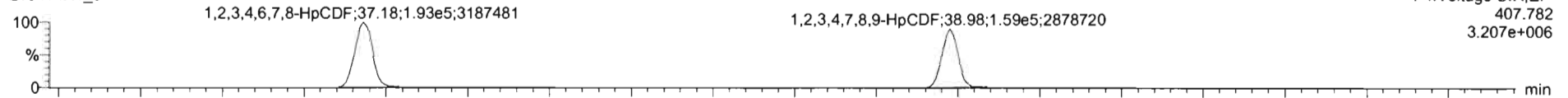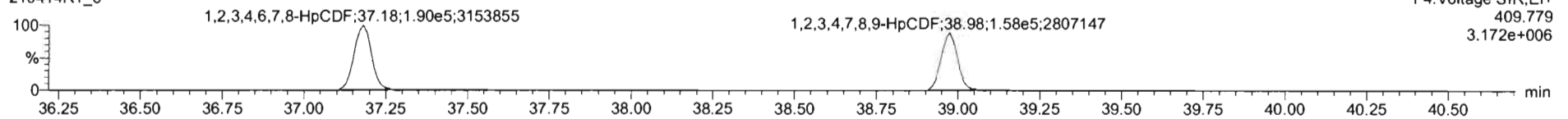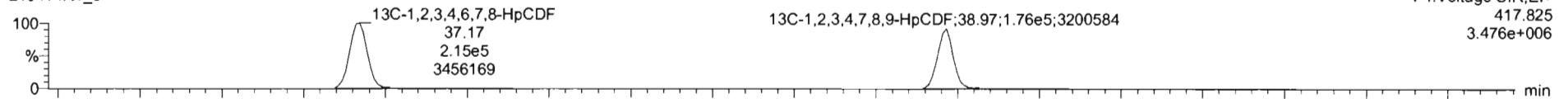
2,3,7,8-TCDF

210414R1_5

F1:Voltage SIR,EI+
303.9016
3.491e+007

2,3,7,8-TCDF
26.34
2.07e6
34727132

210414R1_5

F1:Voltage SIR,EI+
305.899
4.606e+007

2,3,7,8-TCDF
26.34
2.71e6
45766488

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

210414R1_5

F1:Voltage SIR,EI+
315.9419
1.397e+007

13C-1,2,3,4-TCDF;24.93;7.72e5;11927575   13C-2,3,7,8-TCDF
26.32
8.45e5
13866819

210414R1_5

F1:Voltage SIR,EI+
317.939
1.776e+007

13C-1,2,3,4-TCDF;24.93;9.86e5;15085001   13C-2,3,7,8-TCDF
26.32
1.09e6
17639330

DPE1

210414R1_5

F1:Voltage SIR,EI+
375.8364
1.991e+003

26.68
27.59
26.65
23.69 23.99
28.36
26.13
28.01
21.86
23.63 23.81 24.10 24.30   25.72   26.94 27.08   27.68
21.93 22.29 22.54 22.68 23.14   24.61 25.05 25.36   26.38   27.39   28.48 28.67
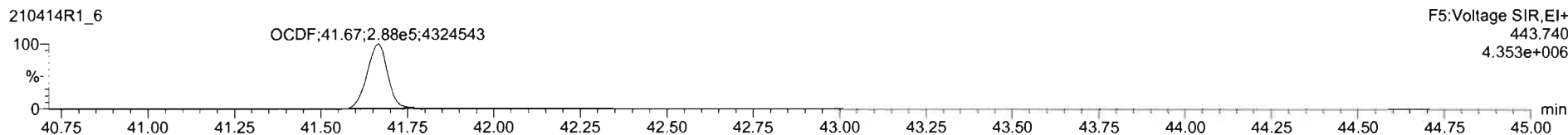21.52

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_5, Date: 14-Apr-2021, Time: 12:59:55, ID: ST210414R1-5 1613 CS5 21C0107, Description: 1613 CS5 21C0107

1st Func. Penta-Furans
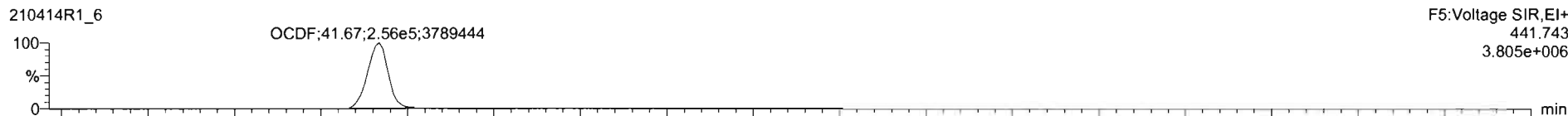

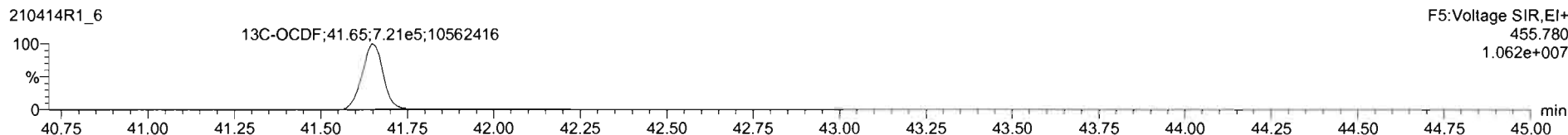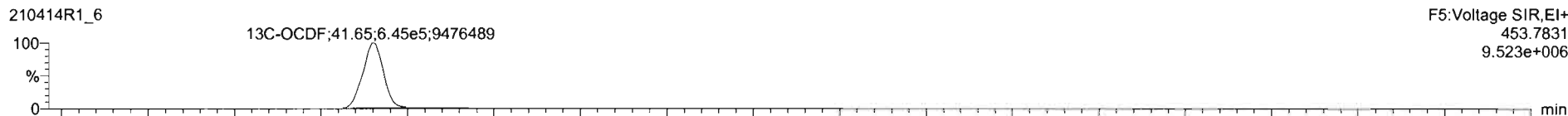### DPE6

Dataset: Untitled

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Name: 210414R1_5, Date: 14-Apr-2021, Time: 12:59:55, ID: ST210414R1-5 1613 CS5 21C0107, Description: 1613 CS5 21C0107
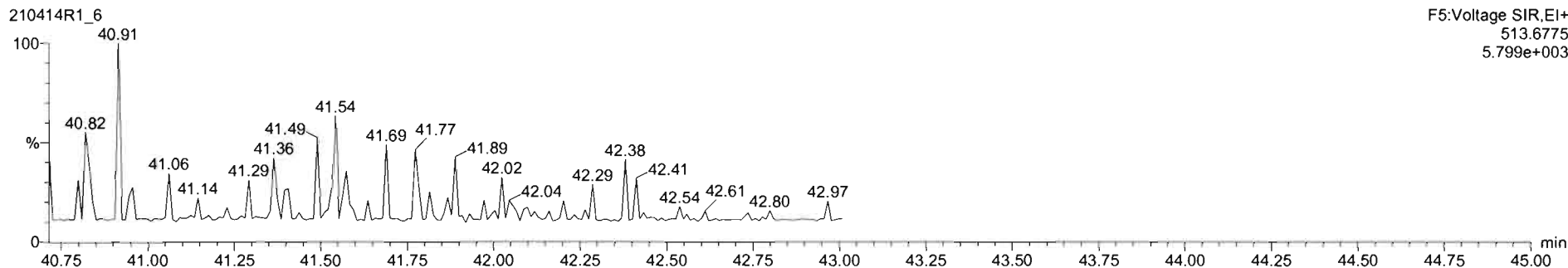
1,2,3,7,8-PeCDF

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

DPE2

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_5, Date: 14-Apr-2021, Time: 12:59:55, ID: ST210414R1-5 1613 CS5 21C0107, Description: 1613 CS5 21C0107

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

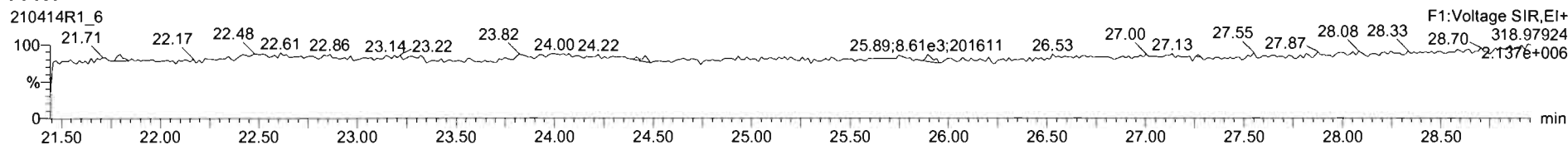**13C-1,2,3,4,7,8-HxCDF**

DPE3

Dataset: Untitled

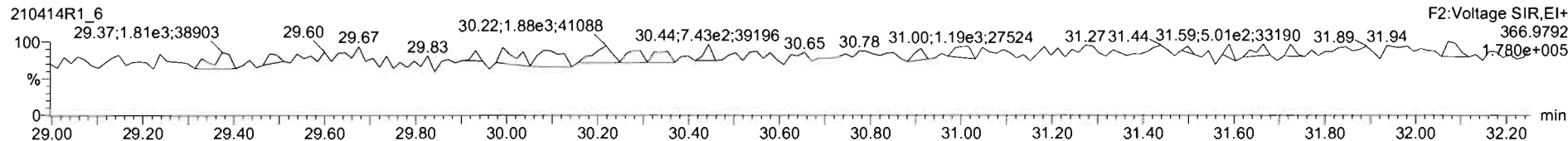Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_5, Date: 14-Apr-2021, Time: 12:59:55, ID: ST210414R1-5 1613 CS5 21C0107, Description: 1613 CS5 21C0107

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

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

DPE4

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_5, Date: 14-Apr-2021, Time: 12:59:55, ID: ST210414R1-5 1613 CS5 21C0107, Description: 1613 CS5 21C0107
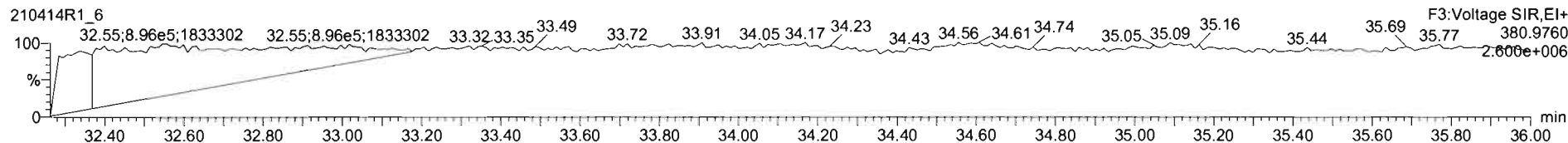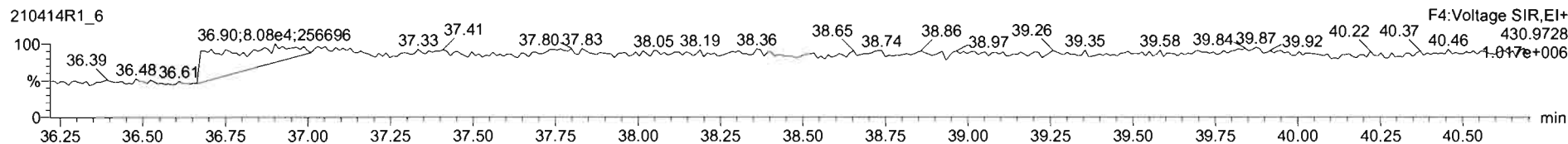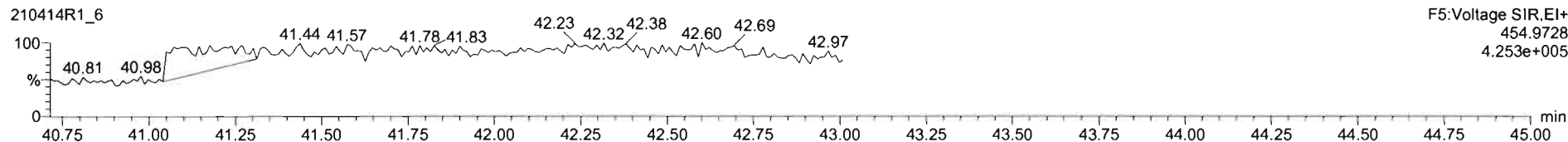
OCDF

210414R1_5

OCDF;41.66;8.25e6;118657488

F5:Voltage SIR,EI+
441.743
1.193e+008

210414R1_5

OCDF;41.66;9.30e6;135441600

F5:Voltage SIR,EI+
443.740
1.363e+008

13C-OCDF

210414R1_5

13C-OCDF;41.65;6.64e5;9528264

F5:Voltage SIR,EI+
453.7831
9.594e+006

210414R1_5

13C-OCDF;41.65;7.53e5;10972547

F5:Voltage SIR,EI+
455.780
1.103e+007

DPE5

210414R1_5

F5:Voltage SIR,EI+
513.6775
6.285e+003

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_5, Date: 14-Apr-2021, Time: 12:59:55, ID: ST210414R1-5 1613 CS5 21C0107, Description: 1613 CS5 21C0107

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
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Name: 210414R1_6, Date: 14-Apr-2021, Time: 13:46:07, ID: ST210414R1-6 1613 CS3 21C0105, Description: 1613 CS3 21C0105

2,3,7,8-TCDD

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_6, Date: 14-Apr-2021, Time: 13:46:07, ID: ST210414R1-6 1613 CS3 21C0105, Description: 1613 CS3 21C0105

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

210414R1_6

F1:Voltage SIR,EI+
327.884
5.614e+006

37Cl-2,3,7,8-TCDD
26.94
3.06e5
5572396

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

210414R1_6

F1:Voltage SIR,EI+
331.9368
1.273e+007

13C-1,2,3,4-TCDD
26.23
6.47e5
10827436

13C-2,3,7,8-TCDD
26.93
7.21e5
12674609

210414R1_6

F1:Voltage SIR,EI+
333.934
1.651e+007

13C-1,2,3,4-TCDD
26.23
8.32e5
13988737

13C-2,3,7,8-TCDD
26.93
9.35e5
16421476

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_6, Date: 14-Apr-2021, Time: 13:46:07, ID: ST210414R1-6 1613 CS3 21C0105, Description: 1613 CS3 21C0105

1,2,3,7,8-PeCDD

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

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_6, Date: 14-Apr-2021, Time: 13:46:07, ID: ST210414R1-6 1613 CS3 21C0105, Description: 1613 CS3 21C0105

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

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

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_6, Date: 14-Apr-2021, Time: 13:46:07, ID: ST210414R1-6 1613 CS3 21C0105, Description: 1613 CS3 21C0105

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

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

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_6, Date: 14-Apr-2021, Time: 13:46:07, ID: ST210414R1-6 1613 CS3 21C0105, Description: 1613 CS3 21C0105

OCDD

210414R1_6

OCDD
41.33
2.40e5
3492881

F5:Voltage SIR,EI+
457.738
3.513e+006

210414R1_6

OCDD
41.33
2.73e5
3962206

F5:Voltage SIR,EI+
459.735
3.988e+006

13C-OCDD

210414R1_6

13C-OCDD
41.31
5.49e5
8000409

F5:Voltage SIR,EI+
469.778
8.049e+006

210414R1_6

13C-OCDD
41.31
6.15e5
9058979

F5:Voltage SIR,EI+
471.775
9.127e+006

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_6, Date: 14-Apr-2021, Time: 13:46:07, ID: ST210414R1-6 1613 CS3 21C0105, Description: 1613 CS3 21C0105

2,3,7,8-TCDF

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

DPE1

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_6, Date: 14-Apr-2021, Time: 13:46:07, ID: ST210414R1-6 1613 CS3 21C0105, Description: 1613 CS3 21C0105

1st Func. Penta-Furans

DPE6

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_6, Date: 14-Apr-2021, Time: 13:46:07, ID: ST210414R1-6 1613 CS3 21C0105, Description: 1613 CS3 21C0105

1,2,3,7,8-PeCDF

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

DPE2

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_6, Date: 14-Apr-2021, Time: 13:46:07, ID: ST210414R1-6 1613 CS3 21C0105, Description: 1613 CS3 21C0105

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

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

DPE3

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_6, Date: 14-Apr-2021, Time: 13:46:07, ID: ST210414R1-6 1613 CS3 21C0105, Description: 1613 CS3 21C0105

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

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

DPE4

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_6, Date: 14-Apr-2021, Time: 13:46:07, ID: ST210414R1-6 1613 CS3 21C0105, Description: 1613 CS3 21C0105

OCDF

13C-OCDF

DPE5

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_6, Date: 14-Apr-2021, Time: 13:46:07, ID: ST210414R1-6 1613 CS3 21C0105, Description: 1613 CS3 21C0105

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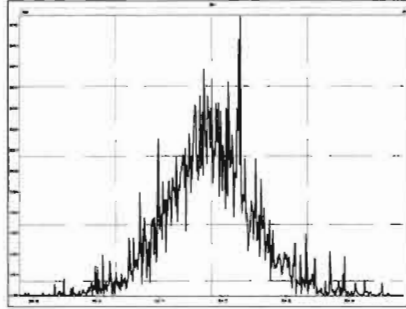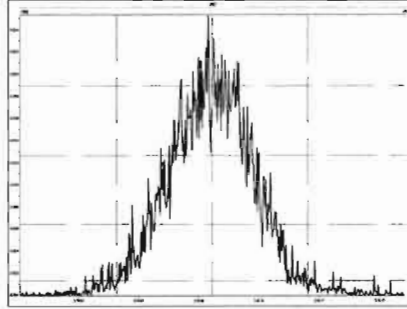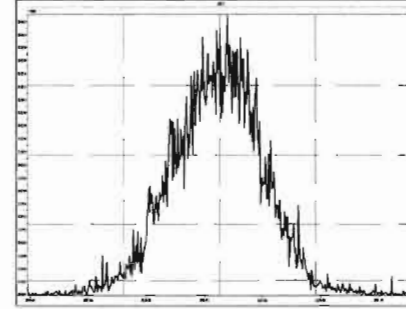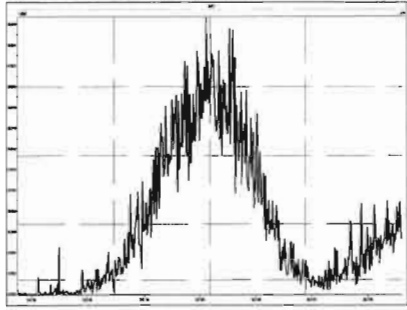
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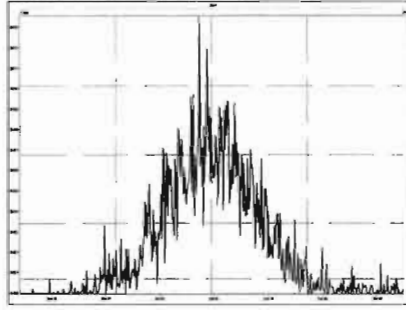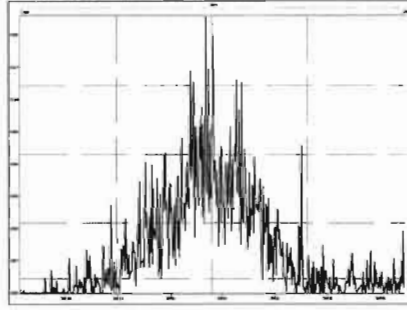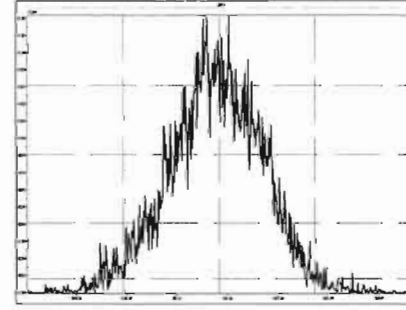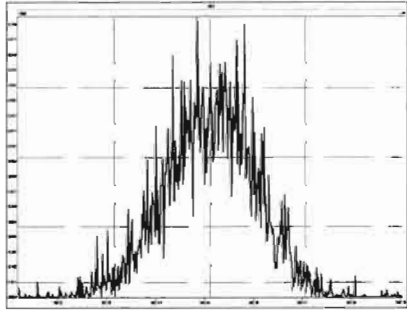
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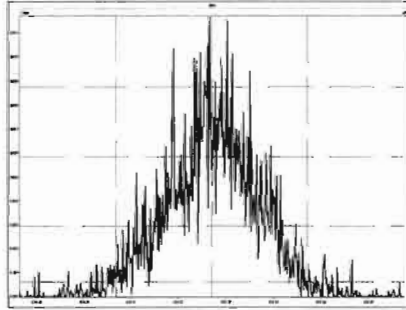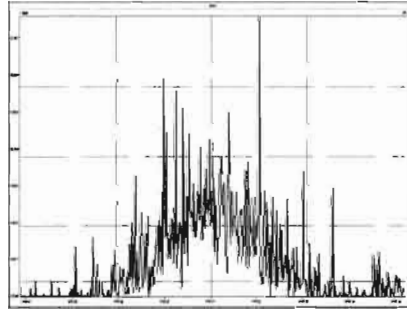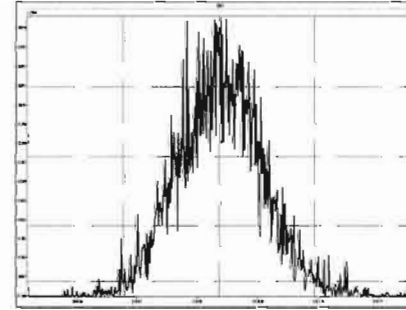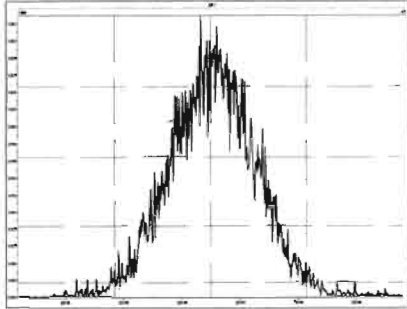
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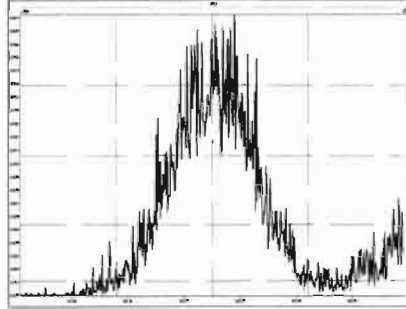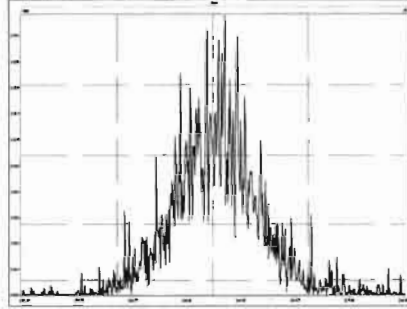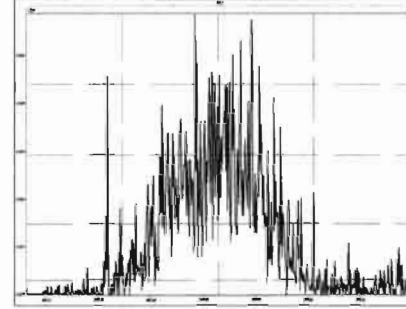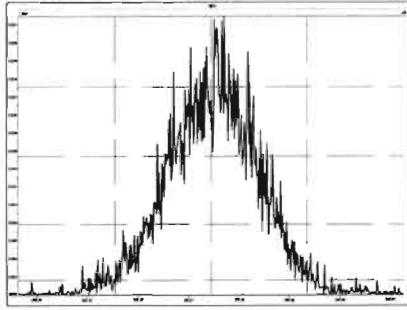
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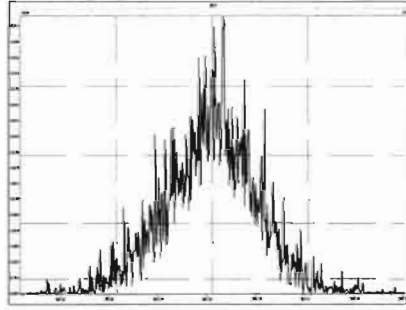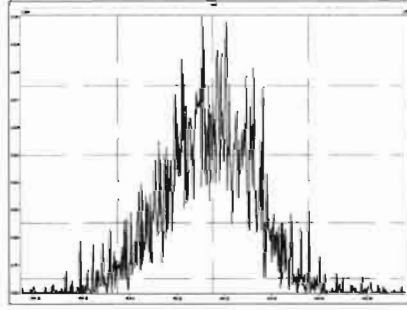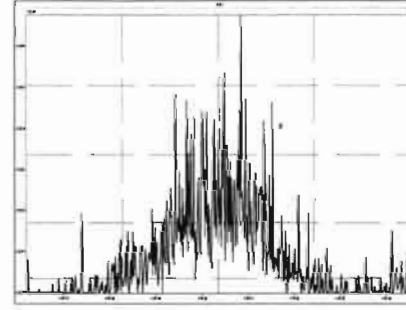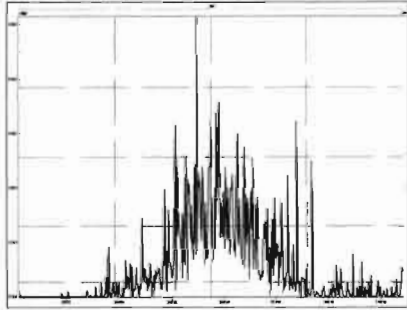
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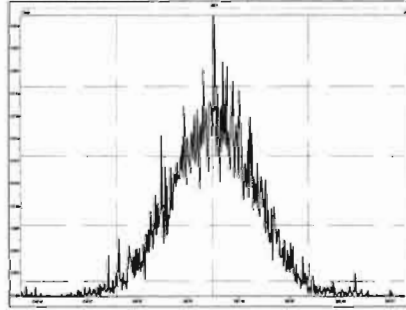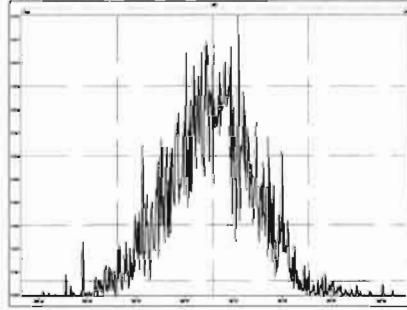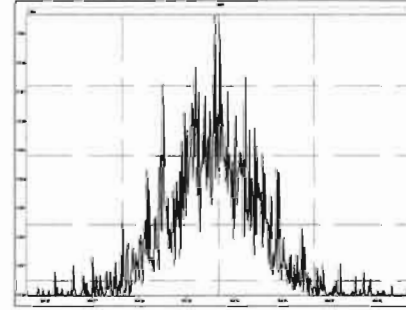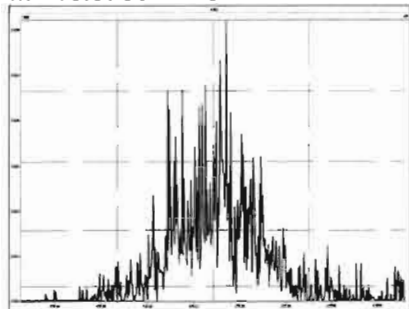
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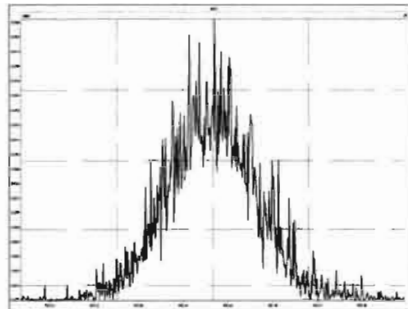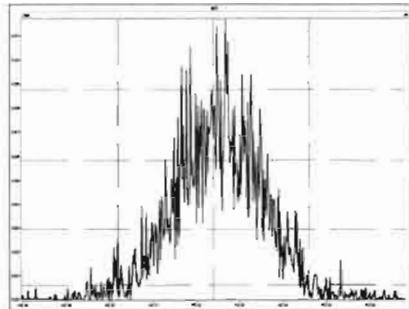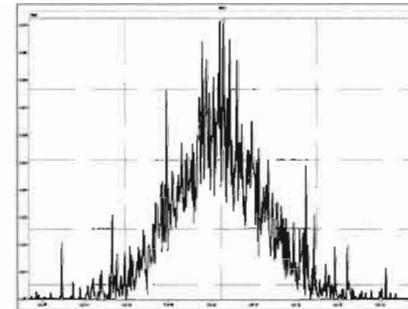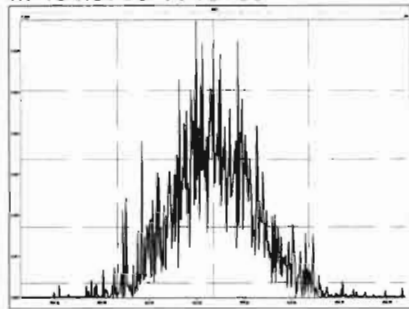
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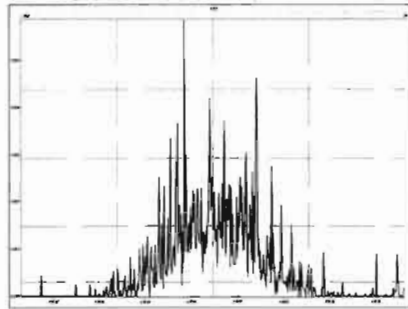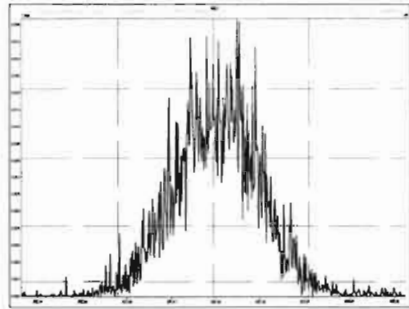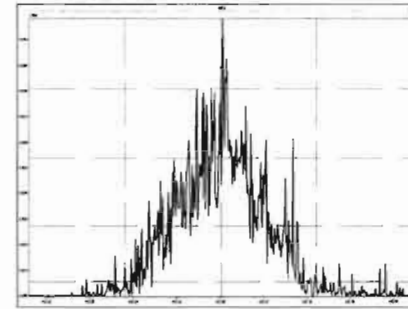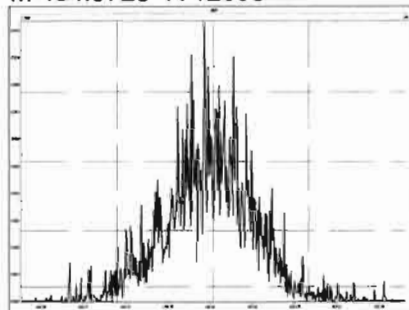
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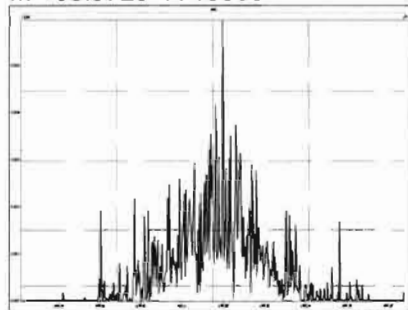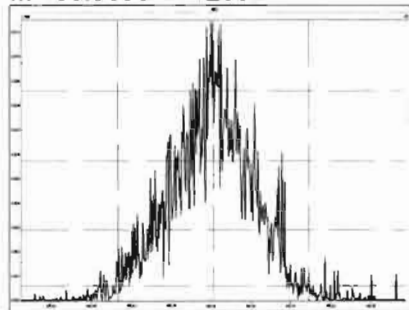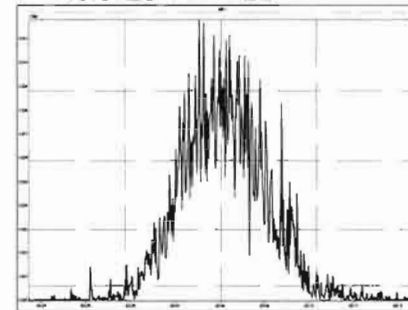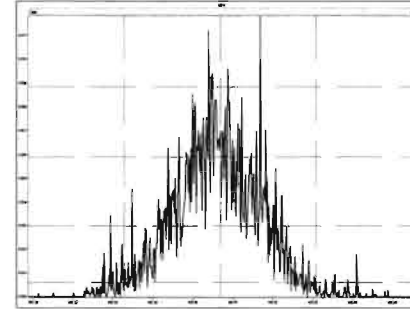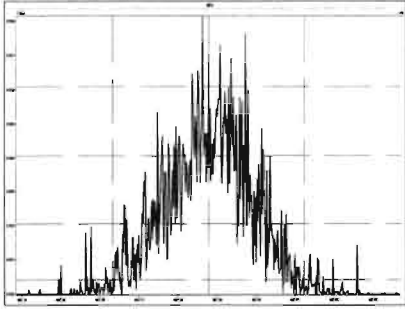
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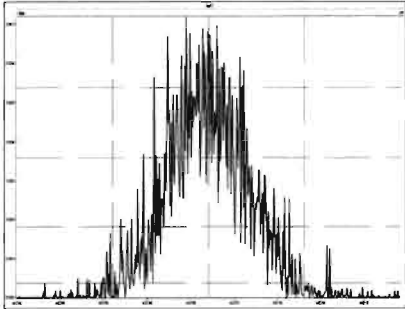
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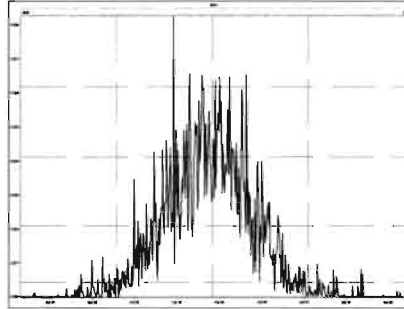
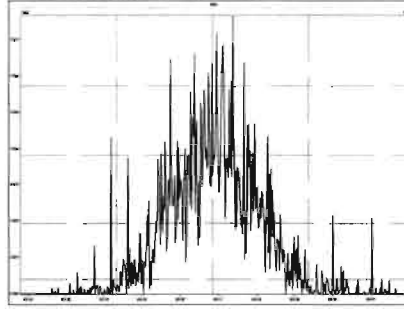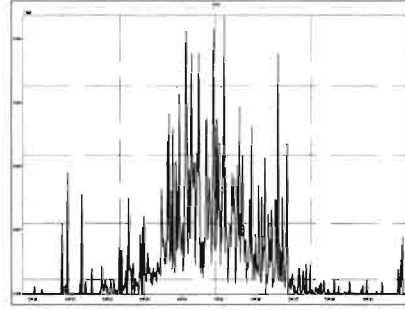M 466.9728 R 18533
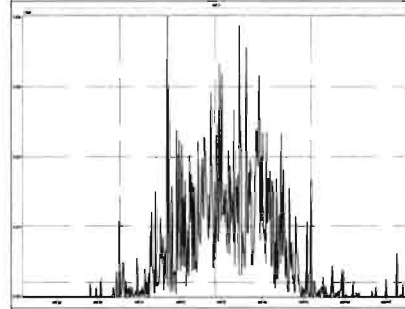
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Dataset: U:\VG12.PRO\Results\210414R1\210414R1_7.qld

Last Altered: Thursday, April 15, 2021 10:13:51 Pacific Daylight Time
Printed: Thursday, April 15, 2021 10:15:16 Pacific Daylight Time

HN 04/15/21
DF 04/15/21

Method: U:\VG12.PRO\MethDB\1613rrt-04-06-21.mdb 06 Apr 2021 08:35:23
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210414R1_7, Date: 14-Apr-2021, Time: 14:34:13, ID: SS210414R1-1 1613 SSS 21C0108, Description: 1613 SSS 21C0108

	# 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	1.42e5	0.76	NO	0.929	1.000	26.945	26.93	1.001	1.001	9.5905	95.9	0.0124	9.59
2	2 1,2,3,7,8-PeCDD	4.59e5	0.60	NO	0.826	1.000	31.274	31.26	1.001	1.000	48.111	96.2	0.0507	48.1
3	3 1,2,3,4,7,8-HxCDD	3.68e5	1.24	NO	0.972	1.000	34.618	34.61	1.001	1.000	50.163	100	0.114	50.2
4	4 1,2,3,6,7,8-HxCDD	3.95e5	1.23	NO	0.877	1.000	34.744	34.74	1.001	1.001	52.884	106	0.119	52.9
5	5 1,2,3,7,8,9-HxCDD	3.89e5	1.25	NO	0.874	1.000	35.027	35.03	1.000	1.000	49.610	99.2	0.114	49.6
6	6 1,2,3,4,6,7,8-HpCDD	2.71e5	1.02	NO	0.899	1.000	38.296	38.31	1.000	1.001	48.692	97.4	0.133	48.7
7	7 OCDD	4.57e5	0.87	NO	0.852	1.000	41.310	41.31	1.000	1.000	102.28	102	0.151	102
8	8 2,3,7,8-TCDF	1.58e5	0.75	NO	0.747	1.000	26.309	26.34	1.000	1.001	9.8282	98.3	0.0164	9.83
9	9 1,2,3,7,8-PeCDF	6.59e5	1.57	NO	0.877	1.000	30.085	30.10	1.000	1.000	47.679	95.4	0.0773	47.7
10	10 2,3,4,7,8-PeCDF	6.89e5	1.54	NO	0.962	1.000	31.098	31.09	1.001	1.000	50.877	102	0.0782	50.9
11	11 1,2,3,4,7,8-HxCDF	4.77e5	1.21	NO	0.920	1.000	33.665	33.68	1.000	1.001	52.893	106	0.0947	52.9
12	12 1,2,3,6,7,8-HxCDF	5.01e5	1.22	NO	0.936	1.000	33.822	33.81	1.001	1.000	51.115	102	0.0912	51.1
13	13 2,3,4,6,7,8-HxCDF	4.67e5	1.22	NO	0.973	1.000	34.514	34.50	1.001	1.000	52.771	106	0.105	52.8
14	14 1,2,3,7,8,9-HxCDF	3.77e5	1.23	NO	0.940	1.000	35.592	35.60	1.000	1.001	50.158	100	0.134	50.2
15	15 1,2,3,4,6,7,8-HpCDF	3.61e5	1.01	NO	1.05	1.000	37.179	37.17	1.000	1.000	52.180	104	0.130	52.2
16	16 1,2,3,4,7,8,9-HpCDF	2.83e5	1.01	NO	1.05	1.000	38.966	38.97	1.000	1.000	49.625	99.2	0.143	49.6
17	17 OCDF	4.60e5	0.87	NO	0.771	1.000	41.645	41.65	1.000	1.000	100.69	101	0.140	101
18	18 13C-2,3,7,8-TCDD	1.59e6	0.76	NO	1.10	1.000	26.897	26.91	1.026	1.027	102.93	103	0.0486	
19	19 13C-1,2,3,7,8-PeCDD	1.16e6	0.63	NO	0.864	1.000	31.205	31.24	1.190	1.192	95.556	95.6	0.0791	
20	20 13C-1,2,3,4,7,8-HxCDD	7.55e5	1.25	NO	0.746	1.000	34.577	34.60	1.013	1.014	97.877	97.9	0.180	
21	21 13C-1,2,3,6,7,8-HxCDD	8.52e5	1.24	NO	0.847	1.000	34.717	34.72	1.017	1.017	97.415	97.4	0.158	
22	22 13C-1,2,3,7,8,9-HxCDD	8.97e5	1.24	NO	0.868	1.000	35.003	35.02	1.026	1.026	100.01	100	0.154	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.19e5	1.02	NO	0.664	1.000	38.269	38.28	1.121	1.122	90.141	90.1	0.290	
24	24 13C-OCDD	1.05e6	0.90	NO	0.561	1.000	41.303	41.30	1.210	1.210	180.80	90.4	0.297	
25	25 13C-2,3,7,8-TCDF	2.15e6	0.77	NO	1.09	1.000	26.307	26.31	1.003	1.003	96.733	96.7	0.0460	
26	26 13C-1,2,3,7,8-PeCDF	1.58e6	1.57	NO	0.809	1.000	30.048	30.08	1.146	1.147	95.821	95.8	0.119	
27	27 13C-2,3,4,7,8-PeCDF	1.41e6	1.58	NO	0.803	1.000	31.034	31.08	1.184	1.185	86.278	86.3	0.120	
28	28 13C-1,2,3,4,7,8-HxCDF	9.81e5	0.51	NO	1.01	1.000	33.659	33.66	0.986	0.986	93.862	93.9	0.192	
29	29 13C-1,2,3,6,7,8-HxCDF	1.05e6	0.51	NO	1.07	1.000	33.788	33.80	0.990	0.990	94.332	94.3	0.181	
30	30 13C-2,3,4,6,7,8-HxCDF	9.09e5	0.51	NO	0.910	1.000	34.485	34.49	1.010	1.011	96.732	96.7	0.214	
31	31 13C-1,2,3,7,8,9-HxCDF	8.01e5	0.52	NO	0.828	1.000	35.573	35.58	1.042	1.043	93.545	93.5	0.235	

50-150% (handwritten note in %Rec column)

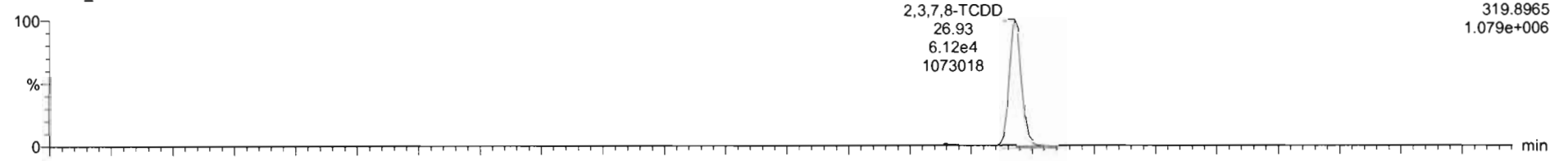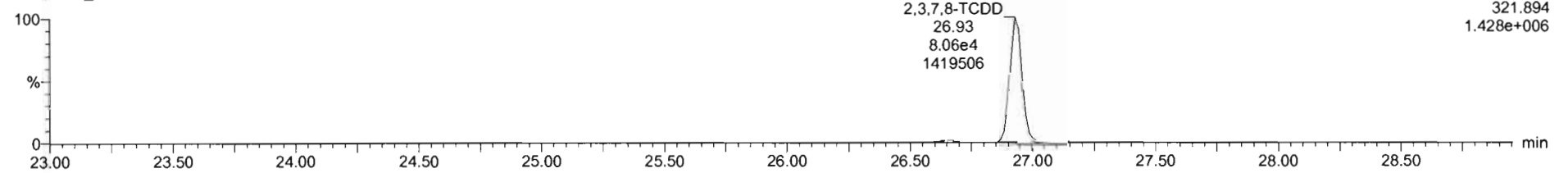Dataset: U:\VG12.PRO\Results\210414R1\210414R1_7.qld

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Printed: Thursday, April 15, 2021 10:15:16 Pacific Daylight Time

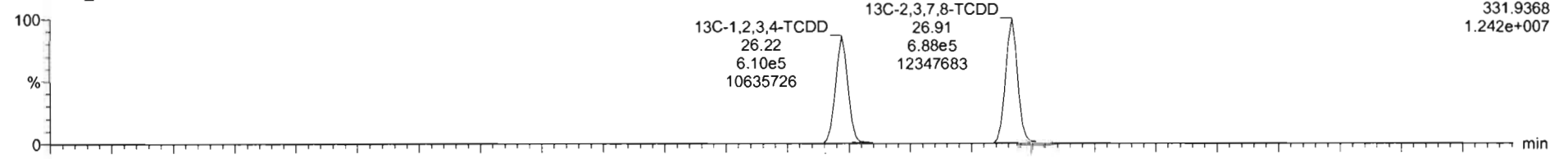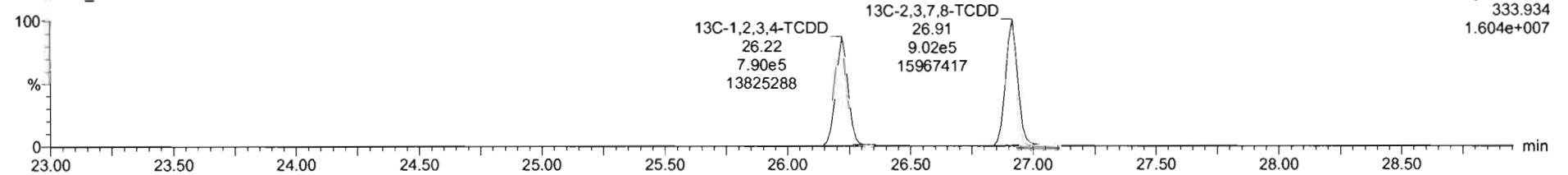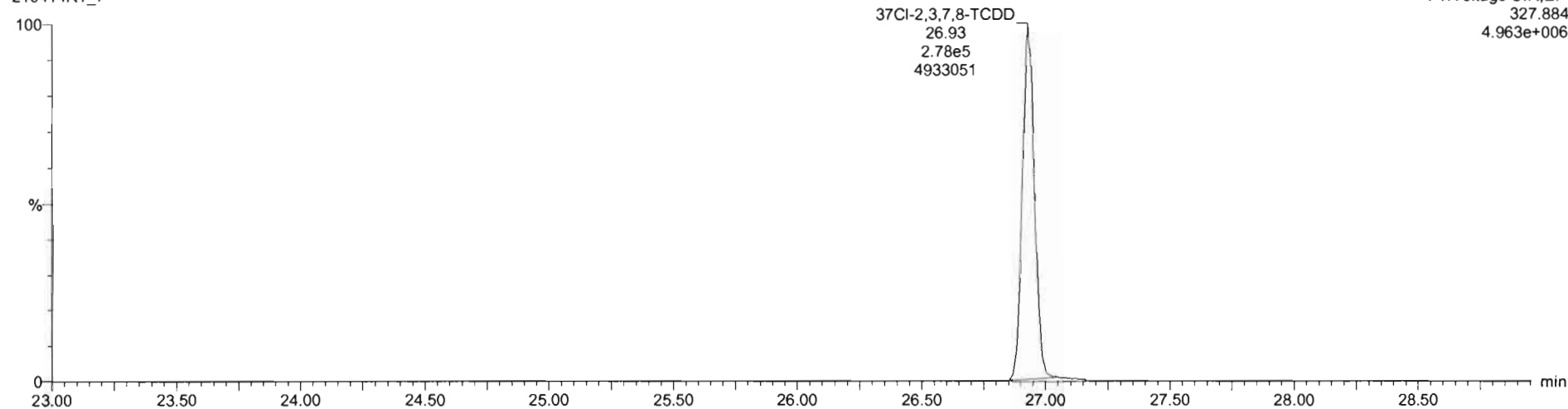**Name: 210414R1_7, Date: 14-Apr-2021, Time: 14:34:13, ID: SS210414R1-1 1613 SSS 21C0108, Description: 1613 SSS 21C0108**
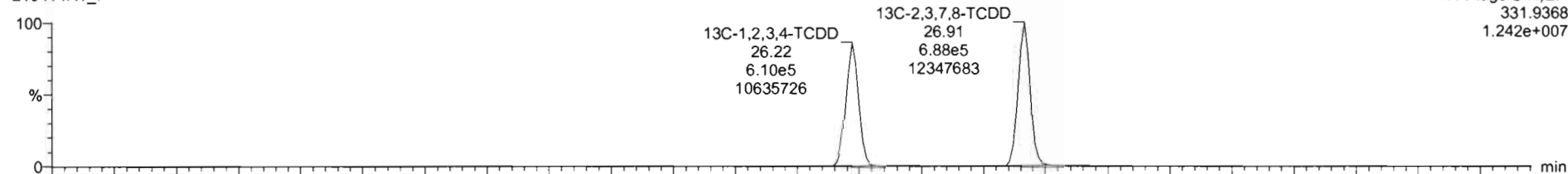
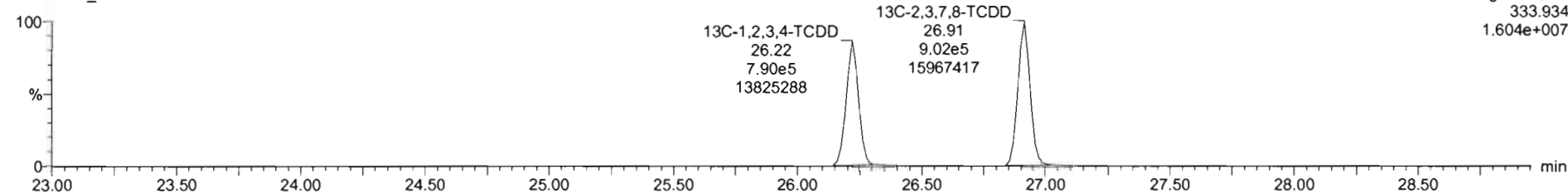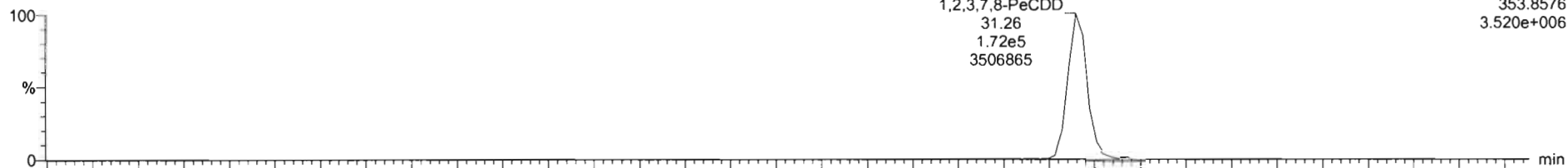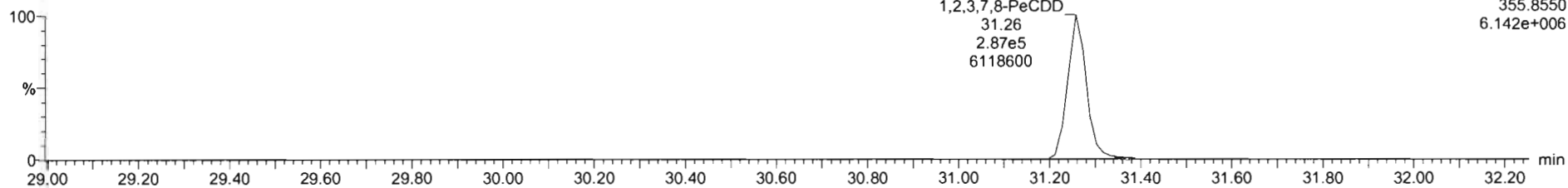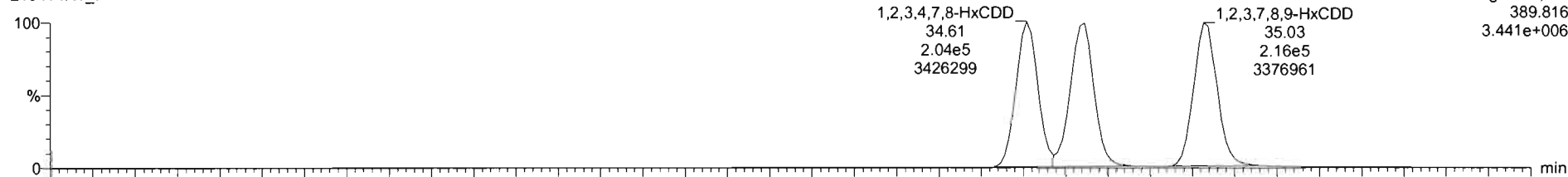|	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	6.60e5	0.43	NO	0.661	1.000	37.150	37.16	1.089	1.089	96.587	96.6	0.244	
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.45e5	0.43	NO	0.566	1.000	38.938	38.95	1.141	1.141	93.255	93.3	0.285	
34	34 13C-OCDF	1.18e6	0.87	NO	0.663	1.000	41.634	41.64	1.220	1.220	172.93	86.5	0.209	
35	35 37Cl-2,3,7,8-TCDD	2.78e5			2.07	1.000	27.125	26.93	1.035	1.027	9.5990	96.0	0.00554	
36	36 13C-1,2,3,4-TCDD	1.40e6	0.77	NO	1.00	1.000	26.290	26.22	1.000	1.000	100.00	100	0.0537	
37	37 13C-1,2,3,4-TCDF	2.03e6	0.78	NO	1.00	1.000	25.020	24.93	1.000	1.000	100.00	100	0.0503	
38	38 13C-1,2,3,4,6,9-HxCDF	1.03e6	0.51	NO	1.00	1.000	34.190	34.13	1.000	1.000	100.00	100	0.194	

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 10:05:01 Pacific Daylight Time
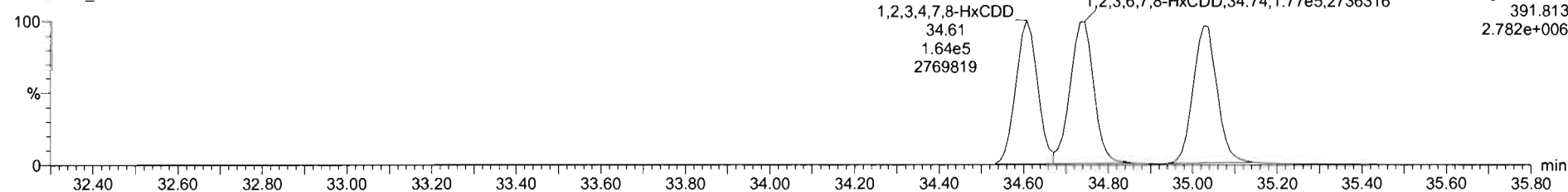Printed: Thursday, April 15, 2021 10:05:13 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-06-21.mdb 06 Apr 2021 08:35:23
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210414R1_7, Date: 14-Apr-2021, Time: 14:34:13, ID: SS210414R1-1 1613 SSS 21C0108, Description: 1613 SSS 21C0108
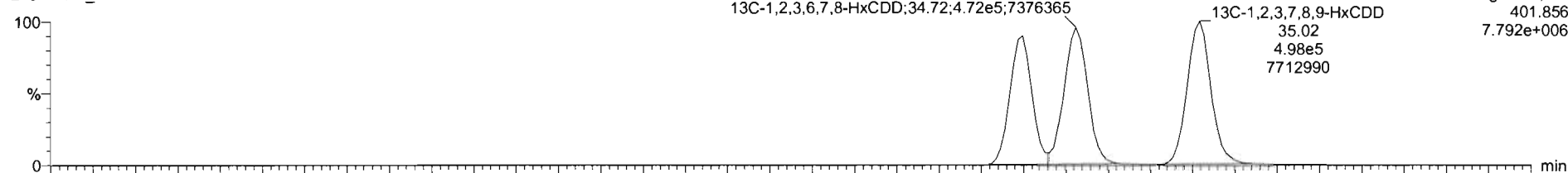
2,3,7,8-TCDD

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

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 10:05:01 Pacific Daylight Time
Printed: Thursday, April 15, 2021 10:05:13 Pacific Daylight Time

Name: 210414R1_7, Date: 14-Apr-2021, Time: 14:34:13, ID: SS210414R1-1 1613 SSS 21C0108, Description: 1613 SSS 21C0108
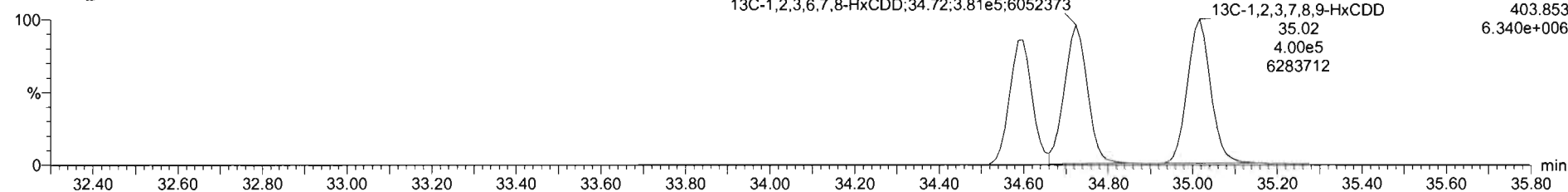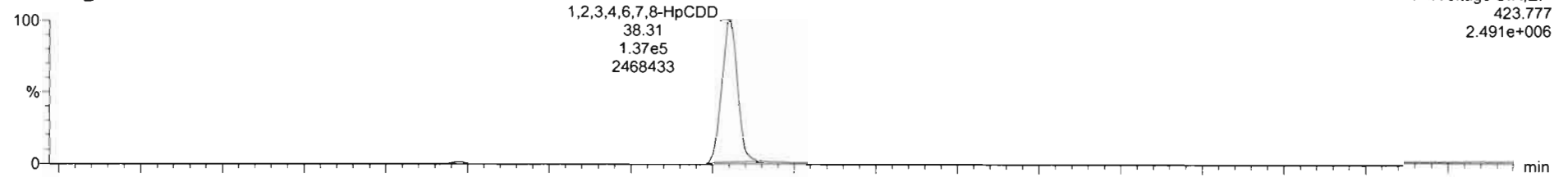
37Cl-2,3,7,8-TCDD

210414R1_7

F1:Voltage SIR,EI+
327.884
4.963e+006

37Cl-2,3,7,8-TCDD
26.93
2.78e5
4933051

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

210414R1_7

F1:Voltage SIR,EI+
331.9368
1.242e+007

13C-1,2,3,4-TCDD
26.22
6.10e5
10635726

13C-2,3,7,8-TCDD
26.91
6.88e5
12347683

210414R1_7

F1:Voltage SIR,EI+
333.934
1.604e+007

13C-1,2,3,4-TCDD
26.22
7.90e5
13825288

13C-2,3,7,8-TCDD
26.91
9.02e5
15967417

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 10:05:01 Pacific Daylight Time
Printed: Thursday, April 15, 2021 10:05:13 Pacific Daylight Time
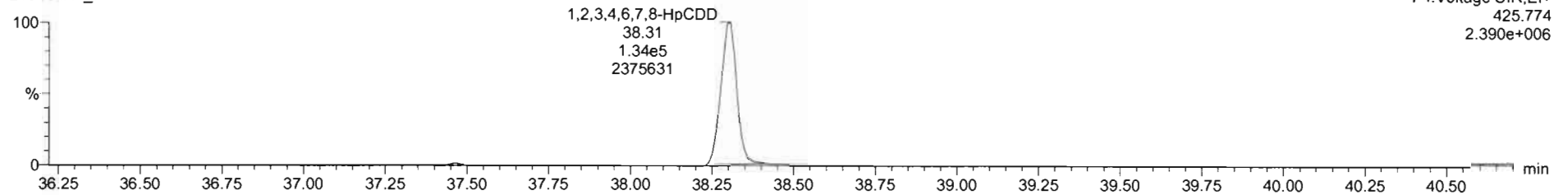
Name: 210414R1_7, Date: 14-Apr-2021, Time: 14:34:13, ID: SS210414R1-1 1613 SSS 21C0108, Description: 1613 SSS 21C0108

1,2,3,7,8-PeCDD

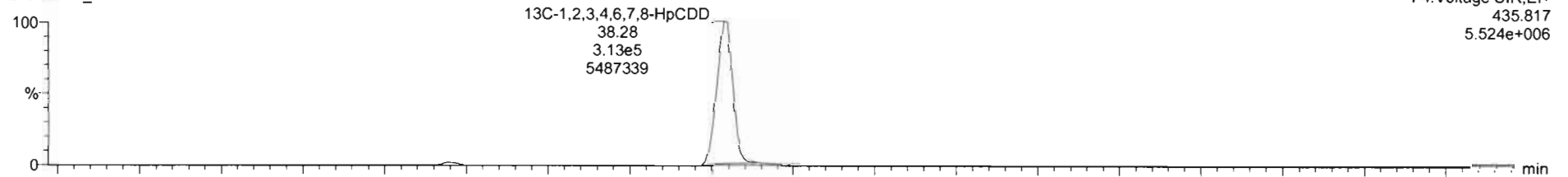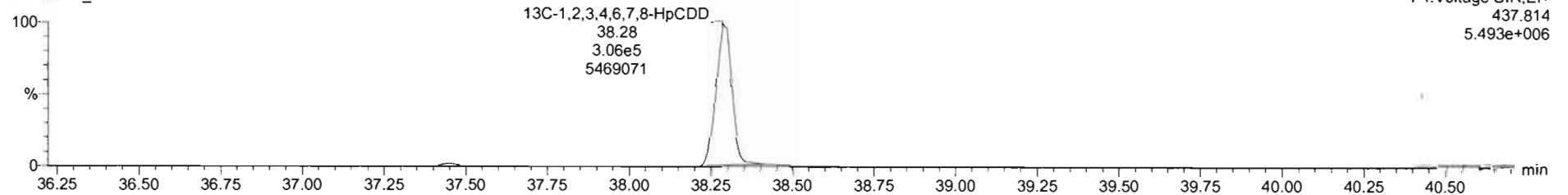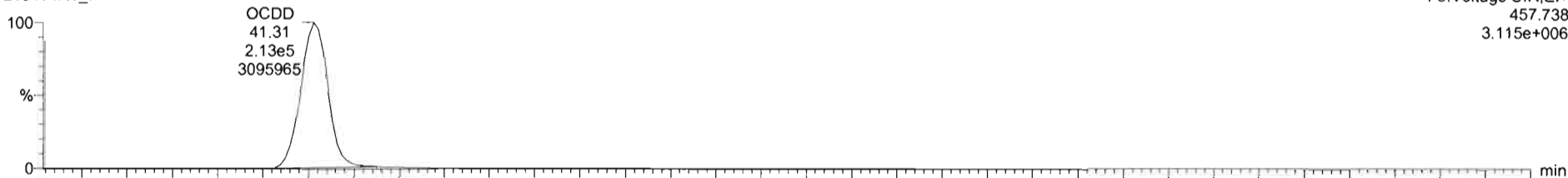**13C-1,2,3,7,8-PeCDD**

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 10:05:01 Pacific Daylight Time
Printed: Thursday, April 15, 2021 10:05:13 Pacific Daylight Time

Name: 210414R1_7, Date: 14-Apr-2021, Time: 14:34:13, ID: SS210414R1-1 1613 SSS 21C0108, Description: 1613 SSS 21C0108

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

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

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 10:05:01 Pacific Daylight Time
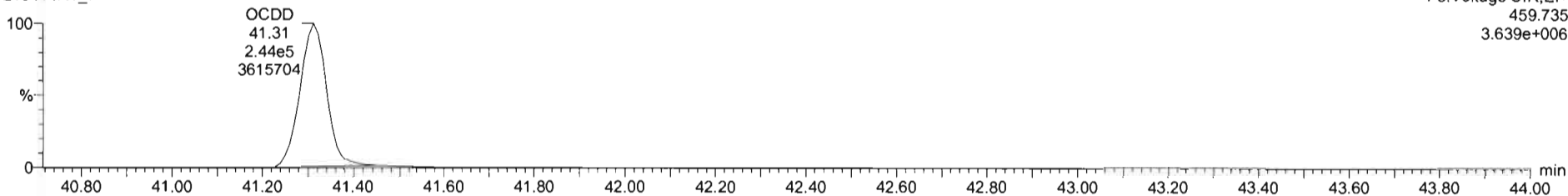Printed: Thursday, April 15, 2021 10:05:13 Pacific Daylight Time

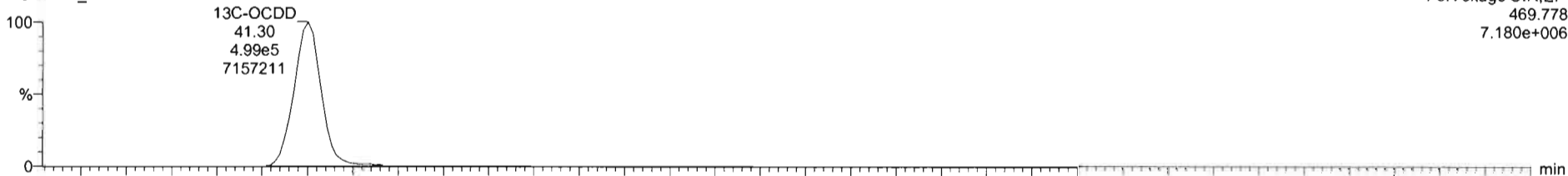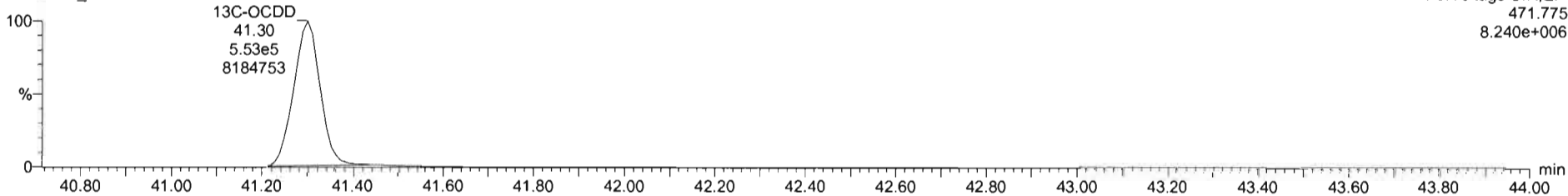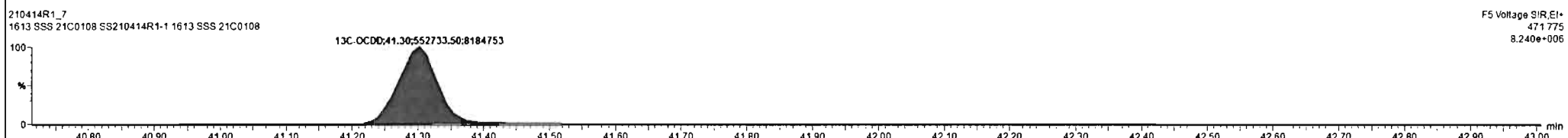**Name: 210414R1_7, Date: 14-Apr-2021, Time: 14:34:13, ID: SS210414R1-1 1613 SSS 21C0108, Description: 1613 SSS 21C0108**

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

210414R1_7

1,2,3,4,6,7,8-HpCDD
38.31
1.37e5
2468433

F4:Voltage SIR,EI+
423.777
2.491e+006

210414R1_7

1,2,3,4,6,7,8-HpCDD
38.31
1.34e5
2375631

F4:Voltage SIR,EI+
425.774
2.390e+006

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

210414R1_7

13C-1,2,3,4,6,7,8-HpCDD
38.28
3.13e5
5487339

F4:Voltage SIR,EI+
435.817
5.524e+006

210414R1_7

13C-1,2,3,4,6,7,8-HpCDD
38.28
3.06e5
5469071

F4:Voltage SIR,EI+
437.814
5.493e+006

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 10:05:01 Pacific Daylight Time
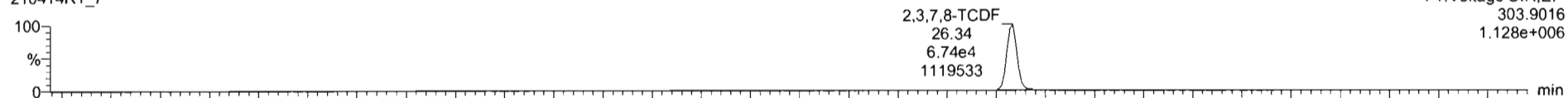Printed: Thursday, April 15, 2021 10:05:13 Pacific Daylight Time

Name: 210414R1_7, Date: 14-Apr-2021, Time: 14:34:13, ID: SS210414R1-1 1613 SSS 21C0108, Description: 1613 SSS 21C0108

OCDD

13C-OCDD

File   Edit   View   Display   Processing   Window   Help

210414R1_7   SS210414R1-1 1613 SSS 21C0108   1613 SSS 21C0108

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.42e5	0.76	NO	0.9291	1.000	26.03	1.001	9.59	95.9	0.0124	9.59
2	1,2,3,7,8-PeCDD	4.59e5	0.60	NO	0.8257	1.000	31.26	1.000	48.1	96.2	0.0507	48.1
3	1,2,3,4,7,8-HxCDD	3.68e5	1.24	NO	0.9725	1.000	34.61	1.000	50.2	100	0.114	50.2
4	1,2,3,6,7,8-HxCDD	3.95e5	1.23	NO	0.8771	1.000	34.74	1.001	52.9	106	0.119	52.9
5	1,2,3,7,8,9-HxCDD	3.89e5	1.25	NO	0.8739	1.000	35.03	1.000	49.6	99.2	0.114	49.6
6	1,2,3,4,6,7,8-HpCDD	2.71e5	1.02	NO	0.8967	1.000	38.31	1.001	48.7	97.4	0.133	48.7
7	OCDD	4.57e5	0.87	NO	0.8524	1.000	41.31	1.000	102	102	0.151	102
8	2,3,7,8-TCDF	1.58e5	0.75	NO	0.7466	1.000	26.34	1.001	9.83	98.3	0.0164	9.83
9	1,2,3,7,8-PeCDF	6.59e5	1.57	NO	0.8771	1.000	30.10	1.000	47.7	95.4	0.0773	47.7
10	2,3,4,7,8-PeCDF	6.89e5	1.54	NO	0.9621	1.000	31.09	1.000	50.9	102	0.0782	50.9
11	1,2,3,4,7,8-HxCDF	4.77e5	1.21	NO	0.9202	1.000	33.68	1.001	52.9	106	0.0947	52.9
12	1,2,3,6,7,8-HxCDF	5.01e5	1.22	NO	0.9363	1.000	33.81	1.000	51.1	102	0.0912	51.1
13	2,3,4,6,7,8-HxCDF	4.67e5	1.22	NO	0.9725	1.000	34.50	1.000	52.8	106	0.105	52.8

210414R1_7
1613 SSS 21C0108 SS210414R1-1 1613 SSS 21C0108

F5 Voltage SIR,EI+
457 738
3.115e+006

OCDD;41.31;213028.59;3095965

210414R1_7
1613 SSS 21C0108 SS210414R1-1 1613 SSS 21C0108

F5 Voltage SIR,EI+
459 735
3.639e+006

OCDD;41.31;243658.63;3615704

210414R1_7
1613 SSS 21C0108 SS210414R1-1 1613 SSS 21C0108

F5 Voltage SIR,EI+
469 778
7.180e+006

13C-OCDD;41.30;494917.53;7157297

210414R1_7
1613 SSS 21C0108 SS210414R1-1 1613 SSS 21C0108

F5 Voltage SIR,EI+
471 775
8.240e+006

13C-OCDD;41.30;552733.50;8184753

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 10:05:01 Pacific Daylight Time
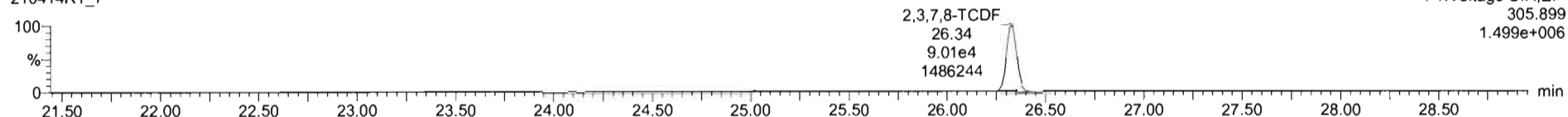Printed: Thursday, April 15, 2021 10:05:13 Pacific Daylight Time

Name: 210414R1_7, Date: 14-Apr-2021, Time: 14:34:13, ID: SS210414R1-1 1613 SSS 21C0108, Description: 1613 SSS 21C0108
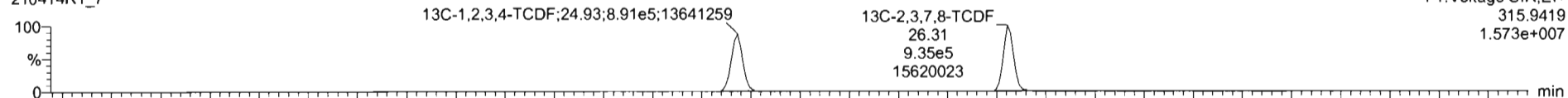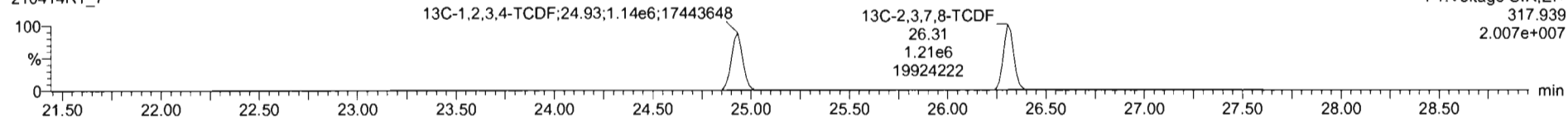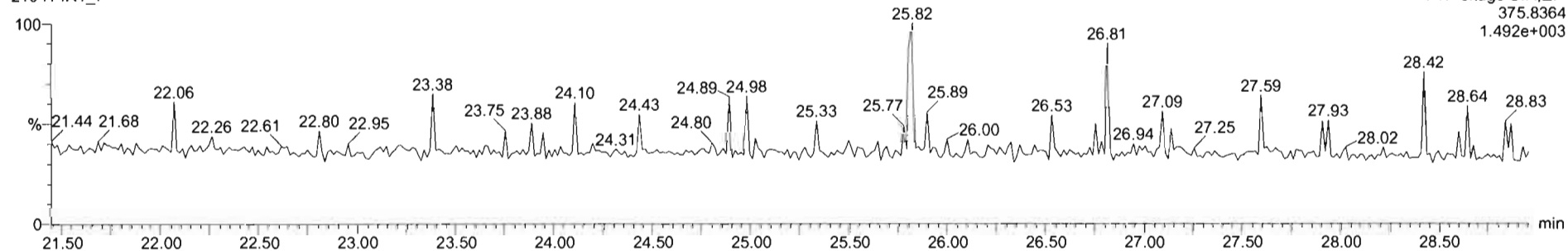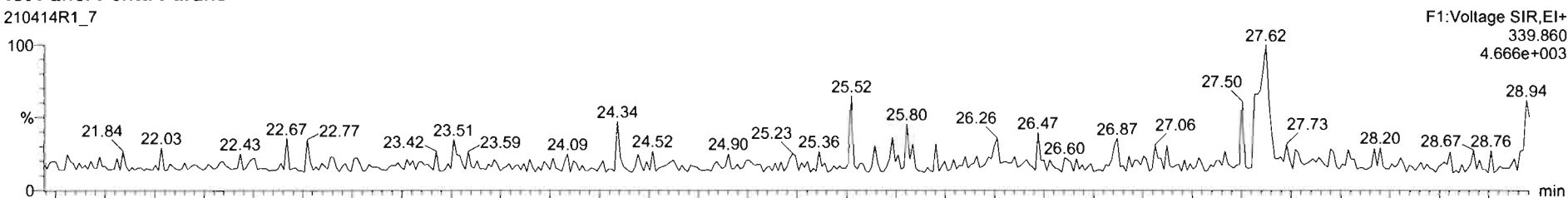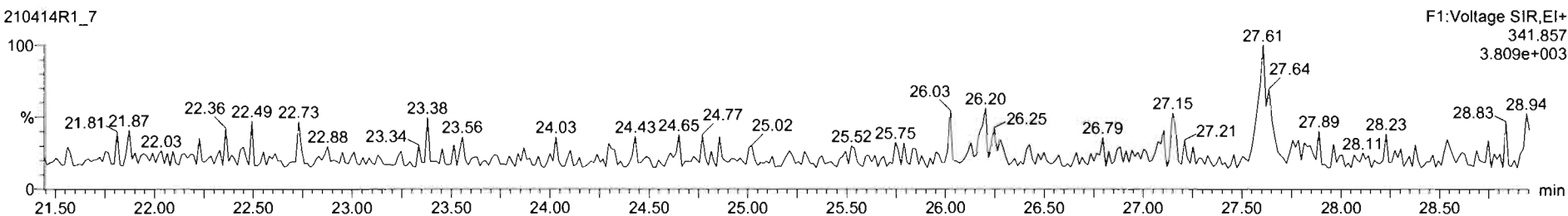

2,3,7,8-TCDF

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

DPE1

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 10:05:01 Pacific Daylight Time
Printed: Thursday, April 15, 2021 10:05:13 Pacific Daylight Time

Name: 210414R1_7, Date: 14-Apr-2021, Time: 14:34:13, ID: SS210414R1-1 1613 SSS 21C0108, Description: 1613 SSS 21C0108
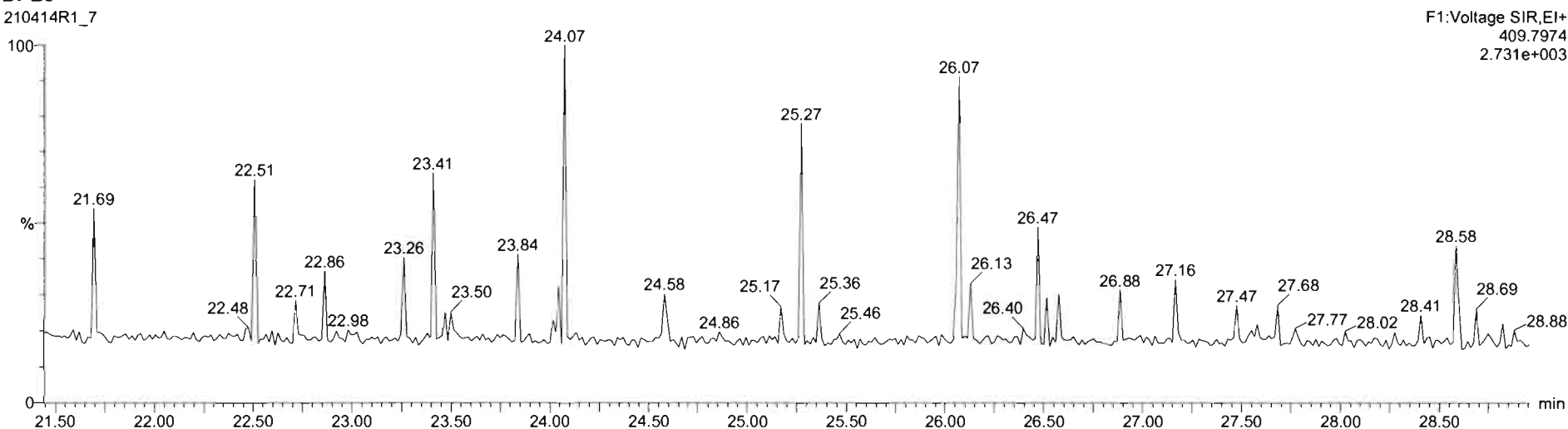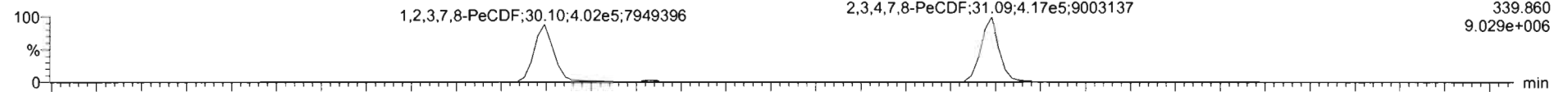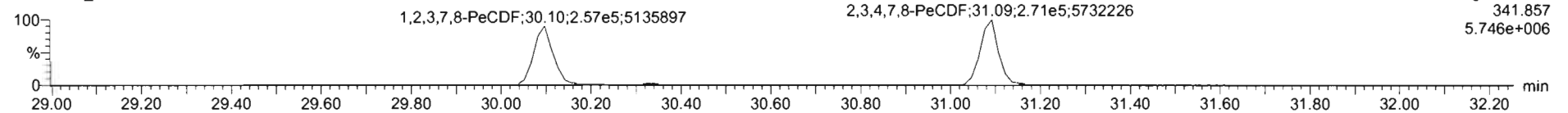
1st Func. Penta-Furans

DPE6

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Printed: Thursday, April 15, 2021 10:05:13 Pacific Daylight Time

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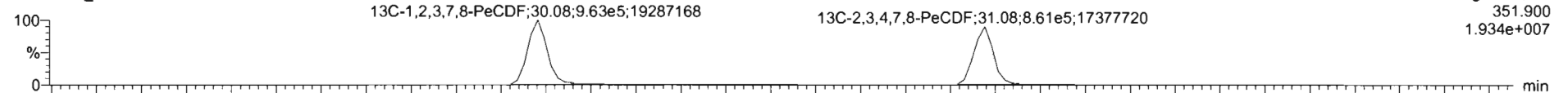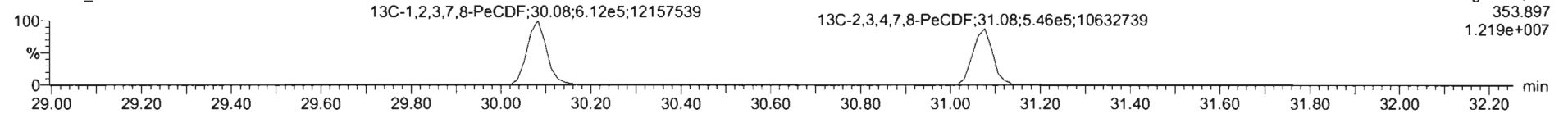
1,2,3,7,8-PeCDF

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

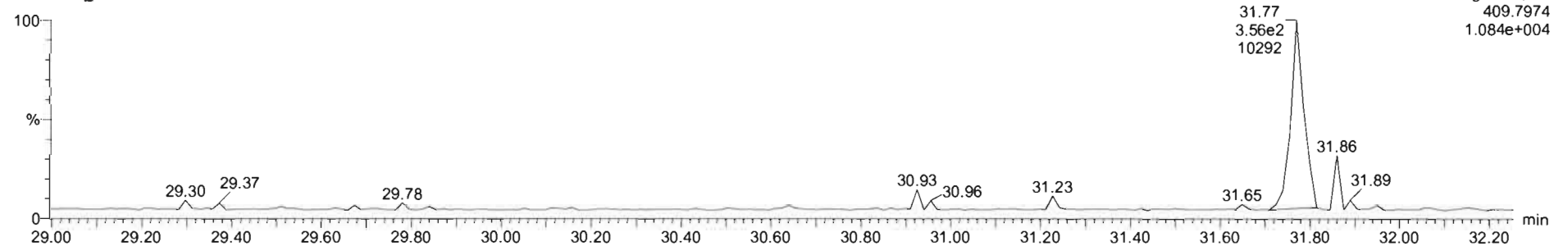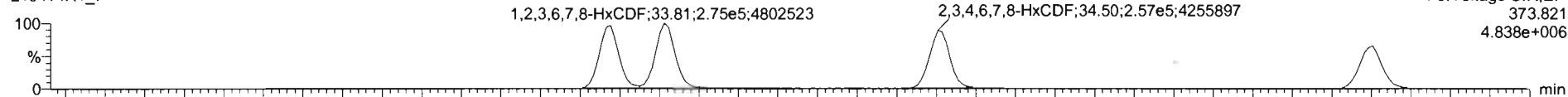**DPE2**

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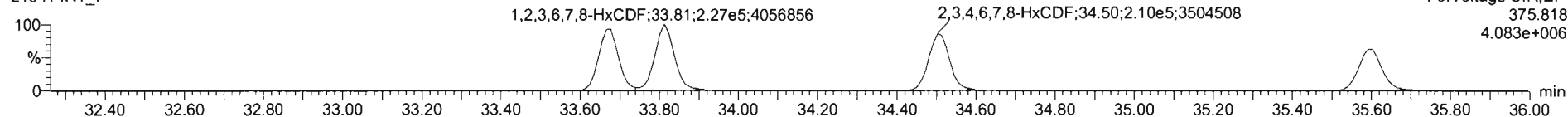Printed: Thursday, April 15, 2021 10:05:13 Pacific Daylight Time

Name: 210414R1_7, Date: 14-Apr-2021, Time: 14:34:13, ID: SS210414R1-1 1613 SSS 21C0108, Description: 1613 SSS 21C0108

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

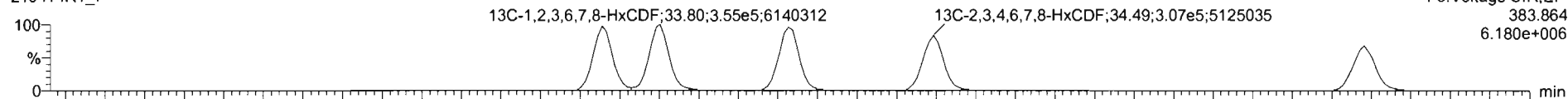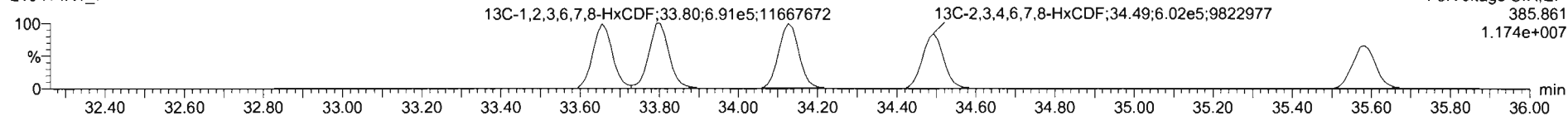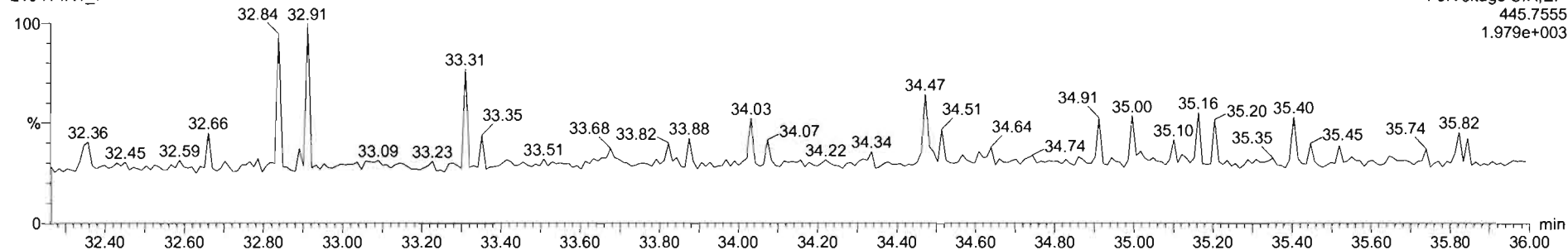### 13C-1,2,3,4,7,8-HxCDF

DPE3

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.42e5	0.76	NO	0.9291	1.000	26.93	1.001	9.59	95.9	0.0124	9.59
2	1,2,3,7,8-PeCDD	4.59e5	0.60	NO	0.8257	1.000	31.26	1.000	48.1	96.2	0.0507	48.1
3	1,2,3,4,7,8-HxCDD	3.68e5	1.24	NO	0.9725	1.000	34.61	1.000	50.2	100	0.114	50.2
4	1,2,3,6,7,8-HxCDD	3.95e5	1.23	NO	0.8771	1.000	34.74	1.001	52.9	106	0.119	52.9
5	1,2,3,7,8,9-HxCDD	3.89e5	1.25	NO	0.8739	1.000	35.03	1.000	49.6	99.2	0.114	49.6
6	1,2,3,4,6,7,8-HpCDD	2.71e5	1.02	NO	0.8987	1.000	38.31	1.001	48.7	97.4	0.133	48.7
7	OCDD	4.57e5	0.87	NO	0.8524	1.000	41.31	1.000	102	102	0.151	102
8	2,3,7,8-TCDF	1.58e5	0.75	NO	0.7456	1.000	26.34	1.001	9.83	98.3	0.0164	9.83
9	1,2,3,7,8-PeCDF	6.59e5	1.57	NO	0.8771	1.000	30.10	1.000	47.7	95.4	0.0773	47.7
10	2,3,4,7,8-PeCDF	8.89e5	1.54	NO	0.9621	1.000	31.09	1.000	50.9	102	0.0782	50.9
11	1,2,3,4,7,8-HxCDF	4.77e5	1.21	NO	0.9202	1.000	33.68	1.001	52.9	106	0.0947	52.9
12	1,2,3,6,7,8-HxCDF	5.01e5	1.22	NO	0.9363	1.000	33.81	1.000	51.1	102	0.0912	51.1
13	2,3,4,6,7,8-HxCDF	4.67e5	1.22	NO	0.9725	1.000	34.50	1.000	52.8	106	0.105	52.8

File   Edit   View   Display   Processing   Window   Help

210414R1_7   SS210414R1-1 1613 SSS 21C0108   1613 SSS 21C0108

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.42e5	0.76	NO	0.9291	1.000	26.93	1.001	9.59	95.9	0.0124	9.59
2	1,2,3,7,8-PeCDD	4.59e5	0.60	NO	0.8257	1.000	31.26	1.000	48.1	96.2	0.0507	48.1
3	1,2,3,4,7,8-HxCDD	3.68e5	1.24	NO	0.9725	1.000	34.61	1.000	50.2	100	0.114	50.2
4	1,2,3,6,7,8-HxCDD	3.95e5	1.23	NO	0.8771	1.000	34.74	1.001	52.9	106	0.119	52.9
5	1,2,3,7,8,9-HxCDD	3.89e5	1.25	NO	0.8739	1.000	35.03	1.000	49.6	99.2	0.114	49.6
6	1,2,3,4,6,7,8-HpCDD	2.71e5	1.02	NO	0.8967	1.000	38.31	1.001	48.7	97.4	0.133	48.7
7	OCDD	4.57e5	0.87	NO	0.8524	1.000	41.31	1.000	102	102	0.151	102
8	2,3,7,8-TCDF	1.58e5	0.75	NO	0.7466	1.000	26.34	1.001	9.83	98.3	0.0164	9.83
9	1,2,3,7,8-PeCDF	6.59e5	1.57	NO	0.8771	1.000	30.10	1.000	47.7	95.4	0.0773	47.7
10	2,3,4,7,8-PeCDF	6.89e5	1.54	NO	0.9621	1.000	31.09	1.000	50.9	102	0.0782	50.9
11	1,2,3,4,7,8-HxCDF	4.77e5	1.21	NO	0.9202	1.000	33.68	1.001	52.9	106	0.0947	52.9
12	1,2,3,6,7,8-HxCDF	5.01e5	1.22	NO	0.9363	1.000	33.81	1.000	51.1	102	0.0912	51.1
13	2,3,4,6,7,8-HxCDF	4.67e5	1.22	NO	0.9725	1.000	34.50	1.000	52.8	106	0.105	52.8

210414R1_7
1613 SSS 21C0108 SS210414R1-1 1613 SSS 21C0108
F3.Voltage SIR.EI+
373.821
4.838e+006
33.81
34.50

210414R1_7
1613 SSS 21C0108 SS210414R1-1 1613 SSS 21C0108
F3.Voltage SIR.EI+
375.818
4.083e+006
1,2,3,4,7,8-HxCDF:33.68;216179.39;3767279
33.81
34.50

210414R1_7
1613 SSS 21C0108 SS210414R1-1 1613 SSS 21C0108
F3.Voltage SIR.EI+
383.864
6.180e+006
33.80
34.13
34.49

210414R1_7
1613 SSS 21C0108 SS210414R1-1 1613 SSS 21C0108
F3.Voltage SIR.EI+
385.861
1.174e+007
33.80
34.13
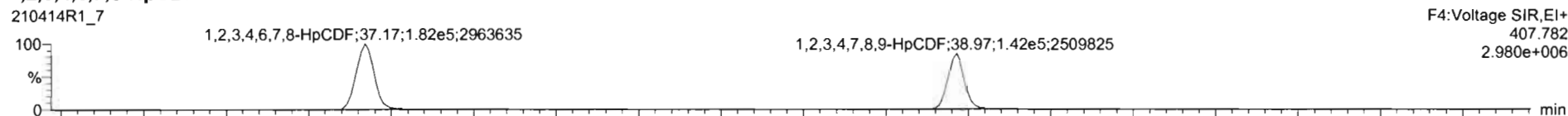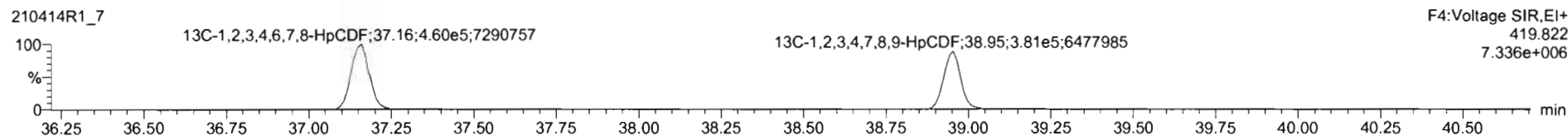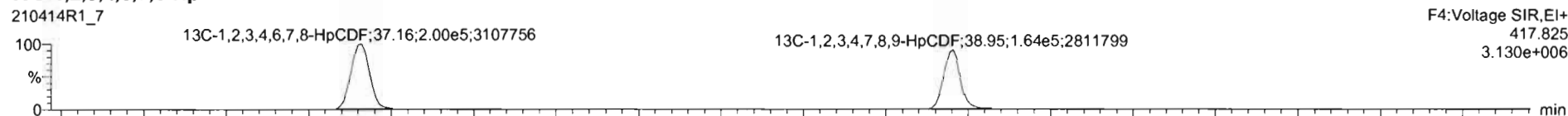34.49

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Printed: Thursday, April 15, 2021 10:05:13 Pacific Daylight Time

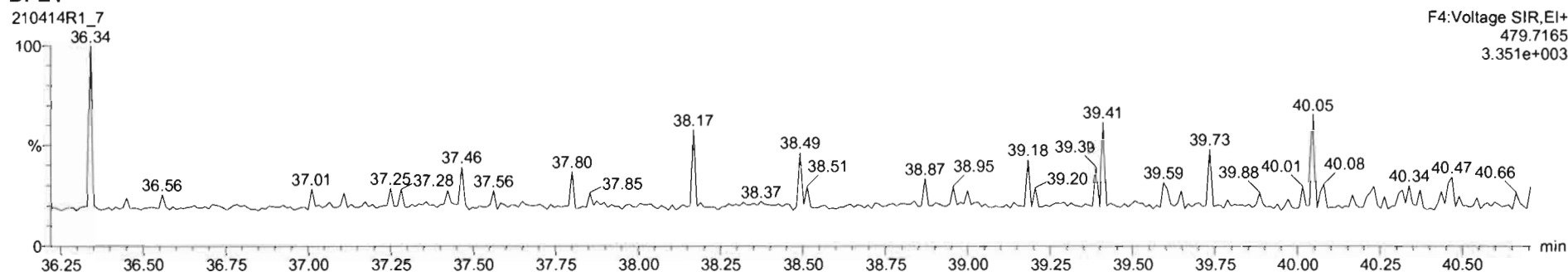**Name: 210414R1_7, Date: 14-Apr-2021, Time: 14:34:13, ID: SS210414R1-1 1613 SSS 21C0108, Description: 1613 SSS 21C0108**

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

210414R1_7 — F4:Voltage SIR,EI+ 407.782 2.980e+006
- 1,2,3,4,6,7,8-HpCDF;37.17;1.82e5;2963635
- 1,2,3,4,7,8,9-HpCDF;38.97;1.42e5;2509825

210414R1_7 — F4:Voltage SIR,EI+ 409.779 2.946e+006
- 1,2,3,4,6,7,8-HpCDF;37.17;1.79e5;2928046
- 1,2,3,4,7,8,9-HpCDF;38.97;1.40e5;2503476

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

210414R1_7 — F4:Voltage SIR,EI+ 417.825 3.130e+006
- 13C-1,2,3,4,6,7,8-HpCDF;37.16;2.00e5;3107756
- 13C-1,2,3,4,7,8,9-HpCDF;38.95;1.64e5;2811799

210414R1_7 — F4:Voltage SIR,EI+ 419.822 7.336e+006
- 13C-1,2,3,4,6,7,8-HpCDF;37.16;4.60e5;7290757
- 13C-1,2,3,4,7,8,9-HpCDF;38.95;3.81e5;6477985

DPE4

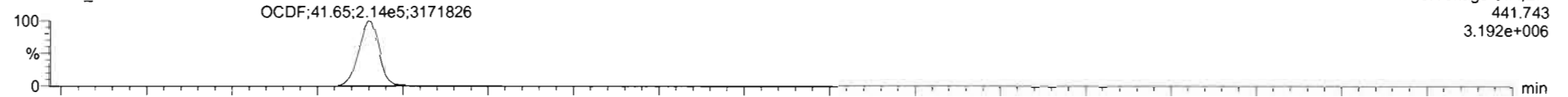210414R1_7 — F4:Voltage SIR,EI+ 479.7165 3.351e+003

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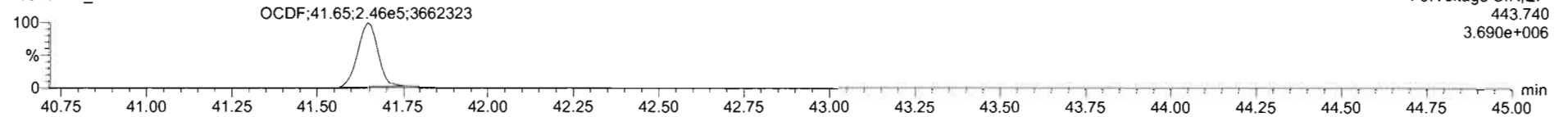Printed: Thursday, April 15, 2021 10:05:13 Pacific Daylight Time

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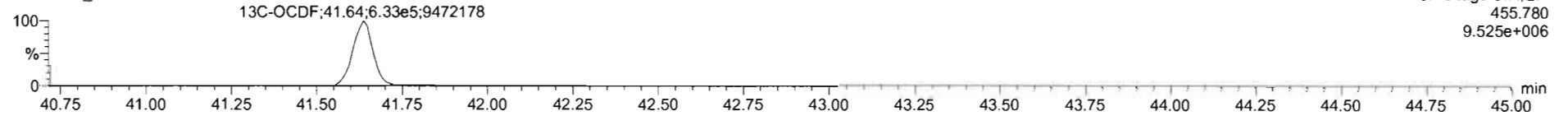
OCDF

13C-OCDF

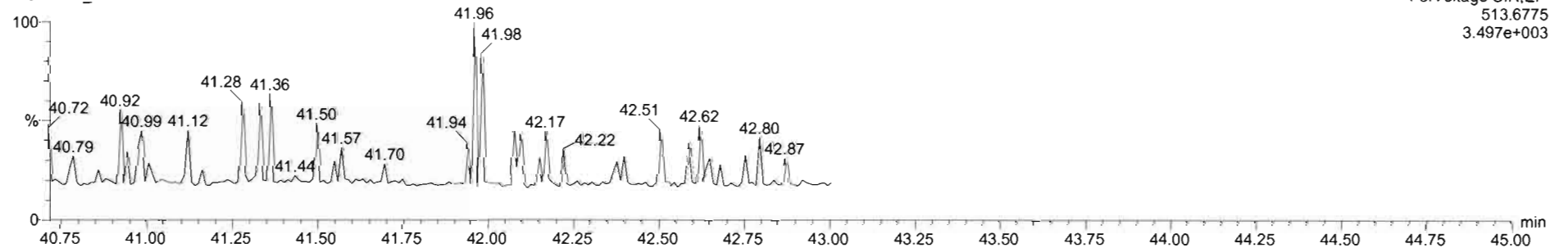**DPE5**

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Name: 210414R1_7, Date: 14-Apr-2021, Time: 14:34:13, ID: SS210414R1-1 1613 SSS 21C0108, Description: 1613 SSS 21C0108

PFK1

PFK2

PFK3

PFK4

PFK5