



February 04, 2020

Vista Work Order No. 1904021

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

Dear Ms. Peterson,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on November 15, 2019 under your Project Name 'Gasco PDI'.

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

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

Sincerely,

Martha Maier
Laboratory Director



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

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Vista Work Order No. 1904021

Case Narrative

Sample Condition on Receipt:

Seven soil samples were received in good condition and within the method temperature requirements. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology. A sample collection time discrepancy was noted upon sample receipt. The sample collection time for "PDI-1142RAB-20-30.4-191112" was not noted on the Chain of Custody (CoC). The sample container labels for the sample had a collection time of 14:40. The sample has been reported as it was listed on the CoC. Two containers were received with cracked lids: One container of sample "PDI-142RAB-10-20-191112" and one of "PDI-144RAB-00-10-191113". These sample containers were not used for analysis.

Analytical Notes:

EPA Method 1613B

These samples were extracted and analyzed for tetra-through-octa chlorinated dioxins and furans by EPA Method 1613B using a ZB-5MS GC column. The confirmation for 2,3,7,8-TCDF was performed using a DB-225 GC column.

Holding Times

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

Quality Control

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

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

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

EPA Method 1699

These samples were extracted and analyzed for a selected list of chlorinated pesticides by EPA Method 1699 using a ZB-50 GC column.

Holding Times

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

Quality Control

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

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

The labeled standard recoveries outside the method acceptance criteria are listed in the table below:

QC Anomalies

LabNumber	SampleName	Analysis	Analyte	Flag	%Rec
1904021-07	PDI-144RAB-20-29-191113	EPA Method 1699	13C12-4,4'-DDD	H	125
1904021-07	PDI-144RAB-20-29-191113	EPA Method 1699	13C12-4,4'-DDT	H	134

H = Recovery was outside laboratory acceptance criteria.

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1904021-01	PDI-1142RAB-20-30.4-191112	12-Nov-19 00:00	15-Nov-19 08:54	Amber Glass, 120 mL Amber Glass, 120 mL
1904021-02	PDI-142RAB-00-10-191112	12-Nov-19 11:20	15-Nov-19 08:54	Amber Glass, 120 mL Amber Glass, 120 mL
1904021-03	PDI-142RAB-10-20-191112	12-Nov-19 12:00	15-Nov-19 08:54	Amber Glass, 120 mL Amber Glass, 120 mL
1904021-04	PDI-142RAB-20-30.4-191112	12-Nov-19 14:35	15-Nov-19 08:54	Amber Glass, 120 mL Amber Glass, 120 mL
1904021-05	PDI-144RAB-00-10-191113	13-Nov-19 09:55	15-Nov-19 08:54	Amber Glass, 120 mL Amber Glass, 120 mL
1904021-06	PDI-144RAB-10-20-191113	13-Nov-19 11:20	15-Nov-19 08:54	Amber Glass, 120 mL Amber Glass, 120 mL
1904021-07	PDI-144RAB-20-29-191113	13-Nov-19 12:00	15-Nov-19 08:54	Amber Glass, 120 mL Amber Glass, 120 mL

ANALYTICAL RESULTS

Sample ID: Method Blank					EPA Method 1613B				
Matrix: Solid Sample Size: 10.0 g		QC Batch: B9K0169 Date Extracted: 19-Nov-2019 7:24		Lab Sample: B9K0169-BLK1 Date Analyzed: 05-Dec-19 09:57 Column: ZB-5MS					
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers	
2,3,7,8-TCDD	ND	0.224			IS 13C-2,3,7,8-TCDD	80.1	25 - 164		
1,2,3,7,8-PeCDD	ND	0.235			13C-1,2,3,7,8-PeCDD	90.5	25 - 181		
1,2,3,4,7,8-HxCDD	ND	0.332			13C-1,2,3,4,7,8-HxCDD	84.7	32 - 141		
1,2,3,6,7,8-HxCDD	ND	0.356			13C-1,2,3,6,7,8-HxCDD	69.0	28 - 130		
1,2,3,7,8,9-HxCDD	ND	0.378			13C-1,2,3,7,8,9-HxCDD	74.7	32 - 141		
1,2,3,4,6,7,8-HpCDD	ND	0.336			13C-1,2,3,4,6,7,8-HpCDD	75.8	23 - 140		
OCDD	ND	0.346			13C-OCDD	83.7	17 - 157		
2,3,7,8-TCDF	ND	0.209			13C-2,3,7,8-TCDF	72.1	24 - 169		
1,2,3,7,8-PeCDF	ND	0.183			13C-1,2,3,7,8-PeCDF	84.1	24 - 185		
2,3,4,7,8-PeCDF	ND	0.165			13C-2,3,4,7,8-PeCDF	82.5	21 - 178		
1,2,3,4,7,8-HxCDF	ND	0.183			13C-1,2,3,4,7,8-HxCDF	89.9	26 - 152		
1,2,3,6,7,8-HxCDF	ND	0.199			13C-1,2,3,6,7,8-HxCDF	77.0	26 - 123		
2,3,4,6,7,8-HxCDF	ND	0.216			13C-2,3,4,6,7,8-HxCDF	73.9	28 - 136		
1,2,3,7,8,9-HxCDF	ND	0.294			13C-1,2,3,7,8,9-HxCDF	77.7	29 - 147		
1,2,3,4,6,7,8-HpCDF	ND	0.317			13C-1,2,3,4,6,7,8-HpCDF	72.1	28 - 143		
1,2,3,4,7,8,9-HpCDF	ND	0.296			13C-1,2,3,4,7,8,9-HpCDF	76.7	26 - 138		
OCDF	ND	0.304			13C-OCDF	87.5	17 - 157		
					CRS 37Cl-2,3,7,8-TCDD	78.8	35 - 197		
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)				
					TEQMinWHO2005Dioxin		0.00		
TOTALS									
Total TCDD	ND	0.224							
Total PeCDD	ND	0.235							
Total HxCDD	ND	0.378							
Total HpCDD	ND	0.336							
Total TCDF	ND	0.209							
Total PeCDF	ND	0.183							
Total HxCDF	ND	0.294							
Total HpCDF	ND	0.317							

DL - Sample specific estimated detection limit

EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit

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

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

Sample ID: OPR					EPA Method 1613B		
Matrix: Solid Sample Size: 10.0 g		QC Batch: B9K0169 Date Extracted: 19-Nov-2019 7:24		Lab Sample: B9K0169-BS1 Date Analyzed: 05-Dec-19 08:21 Column: ZB-5MS			
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	19.7	20.0	98.7	67 - 158	IS 13C-2,3,7,8-TCDD	92.9	20 - 175
1,2,3,7,8-PeCDD	99.2	100	99.2	70 - 142	13C-1,2,3,7,8-PeCDD	101	21 - 227
1,2,3,4,7,8-HxCDD	93.3	100	93.3	70 - 164	13C-1,2,3,4,7,8-HxCDD	94.4	21 - 193
1,2,3,6,7,8-HxCDD	96.9	100	96.9	76 - 134	13C-1,2,3,6,7,8-HxCDD	78.8	25 - 163
1,2,3,7,8,9-HxCDD	95.4	100	95.4	64 - 162	13C-1,2,3,7,8,9-HxCDD	84.6	21 - 193
1,2,3,4,6,7,8-HpCDD	93.8	100	93.8	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	83.1	26 - 166
OCDD	190	200	95.1	78 - 144	13C-OCDD	94.0	13 - 199
2,3,7,8-TCDF	17.6	20.0	88.0	75 - 158	13C-2,3,7,8-TCDF	88.2	22 - 152
1,2,3,7,8-PeCDF	95.3	100	95.3	80 - 134	13C-1,2,3,7,8-PeCDF	98.0	21 - 192
2,3,4,7,8-PeCDF	95.1	100	95.1	68 - 160	13C-2,3,4,7,8-PeCDF	97.3	13 - 328
1,2,3,4,7,8-HxCDF	87.3	100	87.3	72 - 134	13C-1,2,3,4,7,8-HxCDF	104	19 - 202
1,2,3,6,7,8-HxCDF	88.6	100	88.6	84 - 130	13C-1,2,3,6,7,8-HxCDF	86.7	21 - 159
2,3,4,6,7,8-HxCDF	90.5	100	90.5	70 - 156	13C-2,3,4,6,7,8-HxCDF	87.0	22 - 176
1,2,3,7,8,9-HxCDF	87.2	100	87.2	78 - 130	13C-1,2,3,7,8,9-HxCDF	88.8	17 - 205
1,2,3,4,6,7,8-HpCDF	88.3	100	88.3	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	81.5	21 - 158
1,2,3,4,7,8,9-HpCDF	84.6	100	84.6	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	87.0	20 - 186
OCDF	173	200	86.5	63 - 170	13C-OCDF	98.8	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	88.8	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: Method Blank					EPA Method 1613B				
Matrix: Solid Sample Size: 10.0 g		QC Batch: B9L0200 Date Extracted: 18-Dec-2019 6:38		Lab Sample: B9L0200-BLK1 Date Analyzed: 10-Jan-20 01:54 Column: ZB-5MS					
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers	
2,3,7,8-TCDD	ND	0.0552			IS 13C-2,3,7,8-TCDD	94.6	25 - 164		
1,2,3,7,8-PeCDD	ND	0.0603			13C-1,2,3,7,8-PeCDD	95.7	25 - 181		
1,2,3,4,7,8-HxCDD	ND	0.0997			13C-1,2,3,4,7,8-HxCDD	103	32 - 141		
1,2,3,6,7,8-HxCDD	ND	0.111			13C-1,2,3,6,7,8-HxCDD	90.6	28 - 130		
1,2,3,7,8,9-HxCDD	ND	0.111			13C-1,2,3,7,8,9-HxCDD	94.5	32 - 141		
1,2,3,4,6,7,8-HpCDD	ND	0.108			13C-1,2,3,4,6,7,8-HpCDD	96.9	23 - 140		
OCDD	ND	0.108			13C-OCDD	98.0	17 - 157		
2,3,7,8-TCDF	ND	0.0435			13C-2,3,7,8-TCDF	89.2	24 - 169		
1,2,3,7,8-PeCDF	ND	0.0728			13C-1,2,3,7,8-PeCDF	98.2	24 - 185		
2,3,4,7,8-PeCDF	ND	0.0631			13C-2,3,4,7,8-PeCDF	100	21 - 178		
1,2,3,4,7,8-HxCDF	ND	0.0454			13C-1,2,3,4,7,8-HxCDF	106	26 - 152		
1,2,3,6,7,8-HxCDF	ND	0.0469			13C-1,2,3,6,7,8-HxCDF	95.3	26 - 123		
2,3,4,6,7,8-HxCDF	ND	0.0513			13C-2,3,4,6,7,8-HxCDF	96.9	28 - 136		
1,2,3,7,8,9-HxCDF	ND	0.0761			13C-1,2,3,7,8,9-HxCDF	102	29 - 147		
1,2,3,4,6,7,8-HpCDF	ND	0.0626			13C-1,2,3,4,6,7,8-HpCDF	89.7	28 - 143		
1,2,3,4,7,8,9-HpCDF	ND	0.0567			13C-1,2,3,4,7,8,9-HpCDF	97.5	26 - 138		
OCDF	ND	0.0930			13C-OCDF	101	17 - 157		
					CRS 37Cl-2,3,7,8-TCDD	83.2	35 - 197		
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)				
					TEQMinWHO2005Dioxin		0.00		
TOTALS									
Total TCDD	ND	0.0552							
Total PeCDD	ND	0.0603							
Total HxCDD	ND	0.108							
Total HpCDD	ND	0.108							
Total TCDF	ND	0.0435							
Total PeCDF	ND	0.0678							
Total HxCDF	ND	0.0542							
Total HpCDF	ND	0.0599							

DL - Sample specific estimated detection limit

EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit

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

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

Sample ID: OPR					EPA Method 1613B		
Matrix: Solid Sample Size: 10.0 g		QC Batch: B9L0200 Date Extracted: 18-Dec-2019 6:38		Lab Sample: B9L0200-BS1 Date Analyzed: 09-Jan-20 23:30 Column: ZB-5MS			
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	20.9	20.0	105	67 - 158	IS 13C-2,3,7,8-TCDD	90.4	20 - 175
1,2,3,7,8-PeCDD	107	100	107	70 - 142	13C-1,2,3,7,8-PeCDD	95.6	21 - 227
1,2,3,4,7,8-HxCDD	100	100	100	70 - 164	13C-1,2,3,4,7,8-HxCDD	99.3	21 - 193
1,2,3,6,7,8-HxCDD	101	100	101	76 - 134	13C-1,2,3,6,7,8-HxCDD	87.6	25 - 163
1,2,3,7,8,9-HxCDD	102	100	102	64 - 162	13C-1,2,3,7,8,9-HxCDD	90.9	21 - 193
1,2,3,4,6,7,8-HpCDD	94.0	100	94.0	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	103	26 - 166
OCDD	197	200	98.5	78 - 144	13C-OCDD	97.1	13 - 199
2,3,7,8-TCDF	19.0	20.0	95.0	75 - 158	13C-2,3,7,8-TCDF	86.0	22 - 152
1,2,3,7,8-PeCDF	105	100	105	80 - 134	13C-1,2,3,7,8-PeCDF	91.4	21 - 192
2,3,4,7,8-PeCDF	103	100	103	68 - 160	13C-2,3,4,7,8-PeCDF	95.0	13 - 328
1,2,3,4,7,8-HxCDF	89.3	100	89.3	72 - 134	13C-1,2,3,4,7,8-HxCDF	101	19 - 202
1,2,3,6,7,8-HxCDF	88.7	100	88.7	84 - 130	13C-1,2,3,6,7,8-HxCDF	93.7	21 - 159
2,3,4,6,7,8-HxCDF	91.0	100	91.0	70 - 156	13C-2,3,4,6,7,8-HxCDF	94.2	22 - 176
1,2,3,7,8,9-HxCDF	90.1	100	90.1	78 - 130	13C-1,2,3,7,8,9-HxCDF	100	17 - 205
1,2,3,4,6,7,8-HpCDF	86.8	100	86.8	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	91.5	21 - 158
1,2,3,4,7,8,9-HpCDF	84.6	100	84.6	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	101	20 - 186
OCDF	175	200	87.4	63 - 170	13C-OCDF	100	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	81.1	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: PDI-1142RAB-20-30.4-191112 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Soil	Lab Sample: 1904021-01 Date Received: 15-Nov-2019 8:54
Project: Gasco PDI	Sample Size: 11.7 g	QC Batch: B9K0169 Date Extracted: 19-Nov-2019 7:24
Date Collected: 12-Nov-2019 0:00	% Solids: 86.8	Date Analyzed : 13-Dec-19 06:31 Column: ZB-5MS 16-Dec-19 16:10 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.262			IS 13C-2,3,7,8-TCDD	66.4	25 - 164	
1,2,3,7,8-PeCDD	ND	0.313			13C-1,2,3,7,8-PeCDD	68.7	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.412			13C-1,2,3,4,7,8-HxCDD	74.5	32 - 141	
1,2,3,6,7,8-HxCDD	1.42			J	13C-1,2,3,6,7,8-HxCDD	60.7	28 - 130	
1,2,3,7,8,9-HxCDD	0.684			J	13C-1,2,3,7,8,9-HxCDD	64.0	32 - 141	
1,2,3,4,6,7,8-HpCDD	96.0				13C-1,2,3,4,6,7,8-HpCDD	68.9	23 - 140	
OCDD	618				13C-OCDD	61.7	17 - 157	
2,3,7,8-TCDF	2.85				13C-2,3,7,8-TCDF	65.2	24 - 169	
1,2,3,7,8-PeCDF	4.03				13C-1,2,3,7,8-PeCDF	70.1	24 - 185	
2,3,4,7,8-PeCDF	3.65				13C-2,3,4,7,8-PeCDF	66.4	21 - 178	
1,2,3,4,7,8-HxCDF	4.28				13C-1,2,3,4,7,8-HxCDF	72.2	26 - 152	
1,2,3,6,7,8-HxCDF	1.06			J	13C-1,2,3,6,7,8-HxCDF	62.7	26 - 123	
2,3,4,6,7,8-HxCDF	ND		0.646		13C-2,3,4,6,7,8-HxCDF	64.1	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.375			13C-1,2,3,7,8,9-HxCDF	68.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	6.74				13C-1,2,3,4,6,7,8-HpCDF	63.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	1.09			J	13C-1,2,3,4,7,8,9-HpCDF	71.0	26 - 138	
OCDF	24.9				13C-OCDF	63.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	85.9	35 - 197	

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

TEQMinWHO2005Dioxin 3.48

TOTALS								
Total TCDD	ND	0.262						
Total PeCDD	0.807		1.09					
Total HxCDD	21.8		22.7					
Total HpCDD	220							
Total TCDF	5.75		6.33					
Total PeCDF	17.5		18.4					
Total HxCDF	13.0		13.6					
Total HpCDF	24.0							

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

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

Sample ID: PDI-142RAB-00-10-191112 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Soil	Lab Sample: 1904021-02 Date Received: 15-Nov-2019 8:54
Project: Gasco PDI	Sample Size: 10.8 g	QC Batch: B9K0169 Date Extracted: 19-Nov-2019 7:24
Date Collected: 12-Nov-2019 11:20	% Solids: 93.0	Date Analyzed: 13-Dec-19 07:19 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.132			IS 13C-2,3,7,8-TCDD	104	25 - 164	
1,2,3,7,8-PeCDD	ND	0.180			13C-1,2,3,7,8-PeCDD	109	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.223			13C-1,2,3,4,7,8-HxCDD	111	32 - 141	
1,2,3,6,7,8-HxCDD	ND		0.441		13C-1,2,3,6,7,8-HxCDD	88.8	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.227			13C-1,2,3,7,8,9-HxCDD	97.2	32 - 141	
1,2,3,4,6,7,8-HpCDD	10.2				13C-1,2,3,4,6,7,8-HpCDD	113	23 - 140	
OCDD	100				13C-OCDD	117	17 - 157	
2,3,7,8-TCDF	ND	0.145			13C-2,3,7,8-TCDF	98.9	24 - 169	
1,2,3,7,8-PeCDF	ND	0.104			13C-1,2,3,7,8-PeCDF	109	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0907			13C-2,3,4,7,8-PeCDF	105	21 - 178	
1,2,3,4,7,8-HxCDF	0.210			J	13C-1,2,3,4,7,8-HxCDF	110	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.114			13C-1,2,3,6,7,8-HxCDF	99.0	26 - 123	
2,3,4,6,7,8-HxCDF	ND		0.102		13C-2,3,4,6,7,8-HxCDF	99.1	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.158			13C-1,2,3,7,8,9-HxCDF	108	29 - 147	
1,2,3,4,6,7,8-HpCDF	1.21			J	13C-1,2,3,4,6,7,8-HpCDF	120	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.134			13C-1,2,3,4,7,8,9-HpCDF	118	26 - 138	
OCDF	3.56			J	13C-OCDF	123	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	98.4	35 - 197	

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

TEQMinWHO2005Dioxin 0.166

TOTALS								
Total TCDD	ND	0.132						
Total PeCDD	ND	0.180						
Total HxCDD	1.15		2.74					
Total HpCDD	21.9							
Total TCDF	ND	0.145						
Total PeCDF	0.753							
Total HxCDF	1.61		1.95					
Total HpCDF	4.28							

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

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

Sample ID: PDI-142RAB-10-20-191112 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Soil	Lab Sample: 1904021-03 Date Received: 15-Nov-2019 8:54
Project: Gasco PDI	Sample Size: 10.6 g	QC Batch: B9K0169 Date Extracted: 19-Nov-2019 7:24
Date Collected: 12-Nov-2019 12:00	% Solids: 94.2	Date Analyzed: 13-Dec-19 08:07 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.359			IS 13C-2,3,7,8-TCDD	38.2	25 - 164	
1,2,3,7,8-PeCDD	ND	0.508			13C-1,2,3,7,8-PeCDD	39.7	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.699			13C-1,2,3,4,7,8-HxCDD	38.7	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.743			13C-1,2,3,6,7,8-HxCDD	33.4	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.749			13C-1,2,3,7,8,9-HxCDD	36.0	32 - 141	
1,2,3,4,6,7,8-HpCDD	9.36				13C-1,2,3,4,6,7,8-HpCDD	42.0	23 - 140	
OCDD	84.0				13C-OCDD	43.1	17 - 157	
2,3,7,8-TCDF	ND	0.301			13C-2,3,7,8-TCDF	36.2	24 - 169	
1,2,3,7,8-PeCDF	ND	0.255			13C-1,2,3,7,8-PeCDF	39.4	24 - 185	
2,3,4,7,8-PeCDF	ND	0.264			13C-2,3,4,7,8-PeCDF	37.9	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.309			13C-1,2,3,4,7,8-HxCDF	39.9	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.298			13C-1,2,3,6,7,8-HxCDF	36.9	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.349			13C-2,3,4,6,7,8-HxCDF	35.5	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.464			13C-1,2,3,7,8,9-HxCDF	39.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.975			J	13C-1,2,3,4,6,7,8-HpCDF	42.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.317			13C-1,2,3,4,7,8,9-HpCDF	46.8	26 - 138	
OCDF	3.47			J	13C-OCDF	46.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	88.4	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.130

TOTALS								
Total TCDD	ND	0.359						
Total PeCDD	ND	0.508						
Total HxCDD	ND		0.890					
Total HpCDD	21.4							
Total TCDF	ND	0.301						
Total PeCDF	ND		0.301					
Total HxCDF	0.328		0.974					
Total HpCDF	3.18							

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

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

Sample ID: PDI-142RAB-20-30.4-191112 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Soil	Lab Sample: 1904021-04 Date Received: 15-Nov-2019 8:54
Project: Gasco PDI	Sample Size: 11.5 g	QC Batch: B9K0169 Date Extracted: 19-Nov-2019 7:24
Date Collected: 12-Nov-2019 14:35	% Solids: 88.0	Date Analyzed : 13-Dec-19 08:55 Column: ZB-5MS 16-Dec-19 15:38 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.194			IS 13C-2,3,7,8-TCDD	94.1	25 - 164	
1,2,3,7,8-PeCDD	ND	0.268			13C-1,2,3,7,8-PeCDD	99.8	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.425			13C-1,2,3,4,7,8-HxCDD	97.7	32 - 141	
1,2,3,6,7,8-HxCDD	1.38			J	13C-1,2,3,6,7,8-HxCDD	82.5	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.501			13C-1,2,3,7,8,9-HxCDD	84.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	74.9				13C-1,2,3,4,6,7,8-HpCDD	102	23 - 140	
OCDD	546				13C-OCDD	89.0	17 - 157	
2,3,7,8-TCDF	0.480			J	13C-2,3,7,8-TCDF	86.9	24 - 169	
1,2,3,7,8-PeCDF	0.773			J	13C-1,2,3,7,8-PeCDF	97.6	24 - 185	
2,3,4,7,8-PeCDF	ND		0.658		13C-2,3,4,7,8-PeCDF	96.0	21 - 178	
1,2,3,4,7,8-HxCDF	1.47			J	13C-1,2,3,4,7,8-HxCDF	99.1	26 - 152	
1,2,3,6,7,8-HxCDF	ND		0.473		13C-1,2,3,6,7,8-HxCDF	88.2	26 - 123	
2,3,4,6,7,8-HxCDF	0.488			J	13C-2,3,4,6,7,8-HxCDF	85.6	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.185			13C-1,2,3,7,8,9-HxCDF	93.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	4.71				13C-1,2,3,4,6,7,8-HpCDF	90.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.505			J	13C-1,2,3,4,7,8,9-HpCDF	101	26 - 138	
OCDF	19.7				13C-OCDF	90.5	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	88.0	35 - 197	

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

TEQMinWHO2005Dioxin 1.38

TOTALS								
Total TCDD	ND	0.194						
Total PeCDD	0.903		1.46					
Total HxCDD	16.5							
Total HpCDD	177							
Total TCDF	0.829		1.01					
Total PeCDF	4.17		6.43					
Total HxCDF	8.63		9.10					
Total HpCDF	19.7							

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

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

Sample ID: PDI-144RAB-00-10-191113 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Soil	Lab Sample: 1904021-05 Date Received: 15-Nov-2019 8:54
Project: Gasco PDI	Sample Size: 11.0 g	QC Batch: B9K0169 Date Extracted: 19-Nov-2019 7:24
Date Collected: 13-Nov-2019 9:55	% Solids: 91.9	Date Analyzed : 13-Dec-19 09:42 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.137			IS 13C-2,3,7,8-TCDD	102	25 - 164	
1,2,3,7,8-PeCDD	ND	0.146			13C-1,2,3,7,8-PeCDD	108	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.241			13C-1,2,3,4,7,8-HxCDD	103	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.242			13C-1,2,3,6,7,8-HxCDD	87.5	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.260			13C-1,2,3,7,8,9-HxCDD	93.6	32 - 141	
1,2,3,4,6,7,8-HpCDD	11.7				13C-1,2,3,4,6,7,8-HpCDD	113	23 - 140	
OCDD	135				13C-OCDD	115	17 - 157	
2,3,7,8-TCDF	ND		0.336		13C-2,3,7,8-TCDF	95.7	24 - 169	
1,2,3,7,8-PeCDF	0.323			J	13C-1,2,3,7,8-PeCDF	102	24 - 185	
2,3,4,7,8-PeCDF	0.159			J	13C-2,3,4,7,8-PeCDF	103	21 - 178	
1,2,3,4,7,8-HxCDF	0.705			J	13C-1,2,3,4,7,8-HxCDF	107	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.169			13C-1,2,3,6,7,8-HxCDF	94.4	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.200			13C-2,3,4,6,7,8-HxCDF	93.6	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.251			13C-1,2,3,7,8,9-HxCDF	103	29 - 147	
1,2,3,4,6,7,8-HpCDF	1.58			J	13C-1,2,3,4,6,7,8-HpCDF	116	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND		0.210		13C-1,2,3,4,7,8,9-HpCDF	120	26 - 138	
OCDF	4.14			J	13C-OCDF	123	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	98.2	35 - 197	

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

TEQMinWHO2005Dioxin 0.302

TOTALS								
Total TCDD	ND	0.137						
Total PeCDD	ND	0.146						
Total HxCDD	1.15		2.17					
Total HpCDD	26.4							
Total TCDF	ND		0.336					
Total PeCDF	1.18		1.73					
Total HxCDF	2.55							
Total HpCDF	4.64		4.85					

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

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

Sample ID: PDI-144RAB-10-20-191113 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Soil	Lab Sample: 1904021-06 Date Received: 15-Nov-2019 8:54
Project: Gasco PDI	Sample Size: 10.8 g	QC Batch: B9L0200 Date Extracted: 18-Dec-2019 6:38
Date Collected: 13-Nov-2019 11:20	% Solids: 93.4	Date Analyzed: 10-Jan-20 03:30 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.109		IS 13C-2,3,7,8-TCDD	103	25 - 164	
1,2,3,7,8-PeCDD	ND	0.109			13C-1,2,3,7,8-PeCDD	97.4	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.124			13C-1,2,3,4,7,8-HxCDD	105	32 - 141	
1,2,3,6,7,8-HxCDD	ND		0.278		13C-1,2,3,6,7,8-HxCDD	86.4	28 - 130	
1,2,3,7,8,9-HxCDD	0.170			J	13C-1,2,3,7,8,9-HxCDD	94.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	6.80				13C-1,2,3,4,6,7,8-HpCDD	104	23 - 140	
OCDD	63.6				13C-OCDD	104	17 - 157	
2,3,7,8-TCDF	0.0972			J	13C-2,3,7,8-TCDF	98.5	24 - 169	
1,2,3,7,8-PeCDF	0.338			J	13C-1,2,3,7,8-PeCDF	104	24 - 185	
2,3,4,7,8-PeCDF	ND		0.109		13C-2,3,4,7,8-PeCDF	97.7	21 - 178	
1,2,3,4,7,8-HxCDF	0.451			J	13C-1,2,3,4,7,8-HxCDF	103	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0571			13C-1,2,3,6,7,8-HxCDF	95.7	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0641			13C-2,3,4,6,7,8-HxCDF	93.8	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0867			13C-1,2,3,7,8,9-HxCDF	101	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.985			J	13C-1,2,3,4,6,7,8-HpCDF	96.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.144			J	13C-1,2,3,4,7,8,9-HpCDF	99.6	26 - 138	
OCDF	2.52			J	13C-OCDF	104	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	94.9	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.181

TOTALS								
Total TCDD	0.181		0.549					
Total PeCDD	ND	0.109						
Total HxCDD	1.13		2.40					
Total HpCDD	14.9							
Total TCDF	0.0972		0.251					
Total PeCDF	0.649		1.28					
Total HxCDF	1.47							
Total HpCDF	3.03							

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

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

Sample ID: PDI-144RAB-20-29-191113 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Soil	Lab Sample: 1904021-07 Date Received: 15-Nov-2019 8:54
Project: Gasco PDI	Sample Size: 10.7 g	QC Batch: B9K0169 Date Extracted: 19-Nov-2019 7:24
Date Collected: 13-Nov-2019 12:00	% Solids: 93.5	Date Analyzed : 13-Dec-19 11:18 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.240			IS 13C-2,3,7,8-TCDD	54.1	25 - 164	
1,2,3,7,8-PeCDD	ND	0.314			13C-1,2,3,7,8-PeCDD	58.8	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.823			13C-1,2,3,4,7,8-HxCDD	61.1	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.886			13C-1,2,3,6,7,8-HxCDD	51.8	28 - 130	
1,2,3,7,8,9-HxCDD	ND		0.404		13C-1,2,3,7,8,9-HxCDD	56.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	7.37				13C-1,2,3,4,6,7,8-HpCDD	64.3	23 - 140	
OCDD	56.4				13C-OCDD	66.0	17 - 157	
2,3,7,8-TCDF	ND	0.251			13C-2,3,7,8-TCDF	50.6	24 - 169	
1,2,3,7,8-PeCDF	ND	0.222			13C-1,2,3,7,8-PeCDF	58.4	24 - 185	
2,3,4,7,8-PeCDF	ND	0.213			13C-2,3,4,7,8-PeCDF	56.6	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.526			13C-1,2,3,4,7,8-HxCDF	61.9	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.512			13C-1,2,3,6,7,8-HxCDF	56.3	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.567			13C-2,3,4,6,7,8-HxCDF	56.4	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.751			13C-1,2,3,7,8,9-HxCDF	60.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.700			J	13C-1,2,3,4,6,7,8-HpCDF	61.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.260			13C-1,2,3,4,7,8,9-HpCDF	68.4	26 - 138	
OCDF	2.27			J	13C-OCDF	70.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	82.4	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.0983

TOTALS								
Total TCDD	ND	0.240						
Total PeCDD	ND	0.314						
Total HxCDD	ND		0.950					
Total HpCDD	17.5							
Total TCDF	ND	0.251						
Total PeCDF	ND		0.349					
Total HxCDF	1.15		1.40					
Total HpCDF	2.30							

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

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

Sample ID: Method Blank					EPA Method 1699			
Matrix: Solid		QC Batch: B9K0170			Lab Sample: B9K0170-BLK1			
Sample Size: 1.00 g		Date Extracted: 19-Nov-2019 7:27			Date Analyzed: 23-Nov-19 01:54 Column: ZB-50			
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
Lindane (gamma-BHC)	ND	4.67			IS 13C6-Lindane (gamma-BHC)	81.1	11 - 120	
Aldrin	ND	1.67			IS 13C12-Aldrin	86.2	5 - 120	
Oxychlordane	ND	6.10			IS 13C10-Oxychlordane	87.9	23 - 135	
trans-Chlordane (gamma)	ND	5.81			IS 13C10-trans-Chlordane (gamma)	81.6	21 - 132	
trans-Nonachlor	ND	5.36			IS 13C10-trans-Nonachlor	79.7	14 - 136	
cis-Chlordane (alpha)	ND	5.48			IS 13C12-2,4'-DDE	91.1	47 - 160	
2,4'-DDE	ND	1.86			IS 13C12-4,4'-DDE	91.0	47 - 160	
4,4'-DDE	ND		4.54		IS 13C12-Dieldrin	87.7	40 - 151	
Dieldrin	ND	2.73			IS 13C10-cis-Nonachlor	84.5	36 - 139	
cis-Nonachlor	ND	4.52			IS 13C12-2,4'-DDD	102	5 - 199	
2,4'-DDD	ND	3.42			IS 13C12-2,4'-DDT	102	5 - 199	
2,4'-DDT	ND	5.32			IS 13C12-4,4'-DDD	108	5 - 120	
4,4'-DDD	ND	3.31			IS 13C12-4,4'-DDT	108	5 - 120	
4,4'-DDT	ND	5.55						

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

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

Sample ID: OPR **EPA Method 1699**

Matrix: Solid	QC Batch: B9K0170	Lab Sample: B9K0170-BS1
Sample Size: 1.00 g	Date Extracted: 19-Nov-2019 7:27	Date Analyzed: 22-Nov-19 23:25 Column: ZB-50

Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
Lindane (gamma-BHC)	1110	1000	111	50 - 120	IS 13C6-Lindane (gamma-BHC)	87.1	5 - 124
Aldrin	1070	1000	107	50 - 120	IS 13C12-Aldrin	92.5	5 - 126
Oxychlordane	1060	1000	106	50 - 120	IS 13C10-Oxychlordane	99.2	5 - 144
trans-Chlordane (gamma)	1040	1000	104	50 - 120	IS 13C10-trans-Chlordane (gamma)	93.7	15 - 144
trans-Nonachlor	1050	1000	105	50 - 120	IS 13C10-trans-Nonachlor	93.0	13 - 149
cis-Chlordane (alpha)	1100	1000	110	50 - 120	IS 13C12-2,4'-DDE	98.8	26 - 169
2,4'-DDE	1090	1000	109	24 - 123	IS 13C12-4,4'-DDE	98.5	26 - 169
4,4'-DDE	1090	1000	109	50 - 120	IS 13C12-Dieldrin	95.9	19 - 161
Dieldrin	1110	1000	111	50 - 120	IS 13C10-cis-Nonachlor	95.5	17 - 154
cis-Nonachlor	1090	1000	109	50 - 120	IS 13C12-2,4'-DDD	106	14 - 200
2,4'-DDD	1090	1000	109	50 - 120	IS 13C12-2,4'-DDT	106	14 - 200
2,4'-DDT	1150	1000	115	50 - 120	IS 13C12-4,4'-DDD	114	14 - 200
4,4'-DDD	1060	1000	106	42 - 120	IS 13C12-4,4'-DDT	117	13 - 200
4,4'-DDT	1060	1000	106	50 - 120			

LCL-UCL - Lower control limit - upper control limit

Sample ID: Method Blank					EPA Method 1699			
Matrix: Solid		QC Batch: B9L0270			Lab Sample: B9L0270-BLK1			
Sample Size: 1.00 g		Date Extracted: 27-Dec-2019 6:22			Date Analyzed: 25-Jan-20 23:46 Column: ZB-50			
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
Lindane (gamma-BHC)	ND	53.3			IS 13C6-Lindane (gamma-BHC)	86.4	11 - 120	
Aldrin	ND	9.80			IS 13C12-Aldrin	87.1	5 - 120	
Oxychlordane	ND	37.6			IS 13C10-Oxychlordane	86.7	23 - 135	
trans-Chlordane (gamma)	ND	36.2			IS 13C10-trans-Chlordane (gamma)	93.5	21 - 132	
trans-Nonachlor	ND	28.1			IS 13C10-trans-Nonachlor	94.5	14 - 136	
cis-Chlordane (alpha)	ND	27.3			IS 13C12-2,4'-DDE	89.0	47 - 160	
2,4'-DDE	ND	31.5			IS 13C12-4,4'-DDE	84.7	47 - 160	
4,4'-DDE	ND	42.4			IS 13C12-Dieldrin	83.0	40 - 151	
Dieldrin	ND	16.7			IS 13C10-cis-Nonachlor	83.9	36 - 139	
cis-Nonachlor	ND	29.9			IS 13C12-2,4'-DDD	82.3	5 - 199	
2,4'-DDD	ND	74.9			IS 13C12-2,4'-DDT	67.2	5 - 199	
2,4'-DDT	ND	138			IS 13C12-4,4'-DDD	73.4	5 - 120	
4,4'-DDD	ND	79.1			IS 13C12-4,4'-DDT	69.0	5 - 120	
4,4'-DDT	ND	139						

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

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

Sample ID: OPR **EPA Method 1699**

Matrix: Solid	QC Batch: B9L0270	Lab Sample: B9L0270-BS1
Sample Size: 1.00 g	Date Extracted: 27-Dec-2019 6:22	Date Analyzed: 25-Jan-20 22:09 Column: ZB-50

Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
Lindane (gamma-BHC)	5120	5000	102	50 - 120	IS 13C6-Lindane (gamma-BHC)	89.9	5 - 124
Aldrin	5120	5000	102	50 - 120	IS 13C12-Aldrin	92.4	5 - 126
Oxychlordane	5200	5000	104	50 - 120	IS 13C10-Oxychlordane	91.7	5 - 144
trans-Chlordane (gamma)	5000	5000	99.9	50 - 120	IS 13C10-trans-Chlordane (gamma)	94.6	15 - 144
trans-Nonachlor	4940	5000	98.8	50 - 120	IS 13C10-trans-Nonachlor	98.8	13 - 149
cis-Chlordane (alpha)	4840	5000	96.8	50 - 120	IS 13C12-2,4'-DDE	96.9	26 - 169
2,4'-DDE	4980	5000	99.5	24 - 123	IS 13C12-4,4'-DDE	92.4	26 - 169
4,4'-DDE	5020	5000	100	50 - 120	IS 13C12-Dieldrin	90.6	19 - 161
Dieldrin	5110	5000	102	50 - 120	IS 13C10-cis-Nonachlor	86.9	17 - 154
cis-Nonachlor	5220	5000	104	50 - 120	IS 13C12-2,4'-DDD	88.7	14 - 200
2,4'-DDD	5080	5000	102	50 - 120	IS 13C12-2,4'-DDT	79.2	14 - 200
2,4'-DDT	5510	5000	110	50 - 120	IS 13C12-4,4'-DDD	84.2	14 - 200
4,4'-DDD	5110	5000	102	42 - 120	IS 13C12-4,4'-DDT	85.0	13 - 200
4,4'-DDT	4950	5000	99.0	50 - 120			

LCL-UCL - Lower control limit - upper control limit

Sample ID: PDI-1142RAB-20-30.4-191112

EPA Method 1699

Client Data		Sample Data		Laboratory Data	
Name:	Anchor QEA, LLC	Matrix:	Soil	Lab Sample:	1904021-01
Project:	Gasco PDI	Sample Size:	1.16 g	QC Batch:	B9L0270
Date Collected:	12-Nov-2019 0:00	% Solids:	86.8	Date Analyzed:	01-Feb-20 21:16
Location:	001			Column:	ZB-50
				Date Received:	15-Nov-2019 8:54
				Date Extracted:	27-Dec-2019 6:22

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
Lindane (gamma-BHC)	ND	72.5			IS 13C6-Lindane (gamma-BHC)	71.1	11 - 120	
Aldrin	ND	112			IS 13C12-Aldrin	30.9	5 - 120	
Oxychlordane	ND	302			IS 13C10-Oxychlordane	51.1	23 - 135	
trans-Chlordane (gamma)	791				IS 13C10-trans-Chlordane (gamma)	52.2	21 - 132	
trans-Nonachlor	ND		284		IS 13C10-trans-Nonachlor	65.1	14 - 136	
cis-Chlordane (alpha)	671				IS 13C12-2,4'-DDE	65.6	47 - 160	
2,4'-DDE	390				IS 13C12-4,4'-DDE	60.5	47 - 160	
4,4'-DDE	2580				IS 13C12-Dieldrin	64.2	40 - 151	
Dieldrin	678				IS 13C10-cis-Nonachlor	62.7	36 - 139	
cis-Nonachlor	ND	282			IS 13C12-2,4'-DDD	18.6	5 - 199	
2,4'-DDD	7720				IS 13C12-2,4'-DDT	59.2	5 - 199	
2,4'-DDT	842				IS 13C12-4,4'-DDD	50.6	5 - 120	
4,4'-DDD	20200				IS 13C12-4,4'-DDT	59.4	5 - 120	
4,4'-DDT	2350							

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

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

Sample ID: PDI-142RAB-00-10-191112

EPA Method 1699

Client Data		Sample Data		Laboratory Data	
Name:	Anchor QEA, LLC	Matrix:	Soil	Lab Sample:	1904021-02
Project:	Gasco PDI	Sample Size:	1.10 g	QC Batch:	B9K0170
Date Collected:	12-Nov-2019 11:20	% Solids:	93.0	Date Received:	15-Nov-2019 8:54
Location:	002			Date Extracted:	19-Nov-2019 7:27
				Date Analyzed:	23-Nov-19 04:21
				Column:	ZB-50

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
Lindane (gamma-BHC)	ND	6.33			IS 13C6-Lindane (gamma-BHC)	56.3	11 - 120	
Aldrin	ND	2.18			IS 13C12-Aldrin	63.8	5 - 120	
Oxychlordane	ND	8.19			IS 13C10-Oxychlordane	66.0	23 - 135	
trans-Chlordane (gamma)	ND		10.3		IS 13C10-trans-Chlordane (gamma)	62.3	21 - 132	
trans-Nonachlor	16.4			J	IS 13C10-trans-Nonachlor	61.8	14 - 136	
cis-Chlordane (alpha)	ND		11.4		IS 13C12-2,4'-DDE	70.6	47 - 160	
2,4'-DDE	ND	2.21			IS 13C12-4,4'-DDE	71.1	47 - 160	
4,4'-DDE	28.2			J	IS 13C12-Dieldrin	63.9	40 - 151	
Dieldrin	18.4			J	IS 13C10-cis-Nonachlor	63.9	36 - 139	
cis-Nonachlor	ND	7.76			IS 13C12-2,4'-DDD	81.7	5 - 199	
2,4'-DDD	30.7			J	IS 13C12-2,4'-DDT	75.9	5 - 199	
2,4'-DDT	29.2			J	IS 13C12-4,4'-DDD	83.8	5 - 120	
4,4'-DDD	97.4				IS 13C12-4,4'-DDT	82.0	5 - 120	
4,4'-DDT	249							

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

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

Sample ID: PDI-142RAB-10-20-191112

EPA Method 1699

Client Data		Sample Data		Laboratory Data	
Name:	Anchor QEA, LLC	Matrix:	Soil	Lab Sample:	1904021-03
Project:	Gasco PDI	Sample Size:	1.08 g	QC Batch:	B9K0170
Date Collected:	12-Nov-2019 12:00	% Solids:	94.2	Date Received:	15-Nov-2019 8:54
Location:	003			Date Extracted:	19-Nov-2019 7:27
				Date Analyzed:	23-Nov-19 05:11 Column: ZB-50

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
Lindane (gamma-BHC)	4.19			J	IS 13C6-Lindane (gamma-BHC)	70.9	11 - 120	
Aldrin	ND	2.87			IS 13C12-Aldrin	83.3	5 - 120	
Oxychlordane	ND	11.4			IS 13C10-Oxychlordane	90.7	23 - 135	
trans-Chlordane (gamma)	16.8			J	IS 13C10-trans-Chlordane (gamma)	82.4	21 - 132	
trans-Nonachlor	ND		8.47		IS 13C10-trans-Nonachlor	77.8	14 - 136	
cis-Chlordane (alpha)	ND		13.1		IS 13C12-2,4'-DDE	87.2	47 - 160	
2,4'-DDE	ND	2.35			IS 13C12-4,4'-DDE	85.9	47 - 160	
4,4'-DDE	42.2				IS 13C12-Dieldrin	79.4	40 - 151	
Dieldrin	ND		11.9		IS 13C10-cis-Nonachlor	75.3	36 - 139	
cis-Nonachlor	ND	13.8			IS 13C12-2,4'-DDD	98.6	5 - 199	
2,4'-DDD	87.2				IS 13C12-2,4'-DDT	94.3	5 - 199	
2,4'-DDT	67.1				IS 13C12-4,4'-DDD	102	5 - 120	
4,4'-DDD	308				IS 13C12-4,4'-DDT	105	5 - 120	
4,4'-DDT	385							

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

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

Sample ID: PDI-142RAB-20-30.4-191112

EPA Method 1699

Client Data		Sample Data		Laboratory Data	
Name:	Anchor QEA, LLC	Matrix:	Soil	Lab Sample:	1904021-04
Project:	Gasco PDI	Sample Size:	1.15 g	QC Batch:	B9L0270
Date Collected:	12-Nov-2019 14:35	% Solids:	88.0	Date Received:	15-Nov-2019 8:54
Location:	004			Date Extracted:	27-Dec-2019 6:22
				Date Analyzed:	01-Feb-20 23:44
				Column:	ZB-50

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
Lindane (gamma-BHC)	ND	41.8			IS 13C6-Lindane (gamma-BHC)	82.5	11 - 120	
Aldrin	ND		22.7		IS 13C12-Aldrin	45.8	5 - 120	
Oxychlordane	ND	65.1			IS 13C10-Oxychlordane	94.0	23 - 135	
trans-Chlordane (gamma)	232				IS 13C10-trans-Chlordane (gamma)	94.8	21 - 132	
trans-Nonachlor	104			J	IS 13C10-trans-Nonachlor	95.1	14 - 136	
cis-Chlordane (alpha)	283				IS 13C12-2,4'-DDE	93.7	47 - 160	
2,4'-DDE	90.8			J	IS 13C12-4,4'-DDE	95.9	47 - 160	
4,4'-DDE	659				IS 13C12-Dieldrin	85.1	40 - 151	
Dieldrin	207				IS 13C10-cis-Nonachlor	87.6	36 - 139	
cis-Nonachlor	ND	75.3			IS 13C12-2,4'-DDD	87.1	5 - 199	
2,4'-DDD	1450				IS 13C12-2,4'-DDT	77.5	5 - 199	
2,4'-DDT	448				IS 13C12-4,4'-DDD	83.8	5 - 120	
4,4'-DDD	5180				IS 13C12-4,4'-DDT	74.7	5 - 120	
4,4'-DDT	1630							

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

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

Sample ID: PDI-144RAB-00-10-191113

EPA Method 1699

Client Data		Sample Data		Laboratory Data	
Name:	Anchor QEA, LLC	Matrix:	Soil	Lab Sample:	1904021-05
Project:	Gasco PDI	Sample Size:	1.10 g	QC Batch:	B9K0170
Date Collected:	13-Nov-2019 9:55	% Solids:	91.9	Date Received:	15-Nov-2019 8:54
Location:	005			Date Extracted:	19-Nov-2019 7:27
				Date Analyzed:	23-Nov-19 06:00 Column: ZB-50

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
Lindane (gamma-BHC)	ND	6.62			IS 13C6-Lindane (gamma-BHC)	63.9	11 - 120	
Aldrin	ND	3.90			IS 13C12-Aldrin	69.4	5 - 120	
Oxychlordane	ND	14.0			IS 13C10-Oxychlordane	76.3	23 - 135	
trans-Chlordane (gamma)	17.2			J	IS 13C10-trans-Chlordane (gamma)	72.0	21 - 132	
trans-Nonachlor	ND	12.2			IS 13C10-trans-Nonachlor	70.5	14 - 136	
cis-Chlordane (alpha)	ND	12.5			IS 13C12-2,4'-DDE	76.8	47 - 160	
2,4'-DDE	ND	2.57			IS 13C12-4,4'-DDE	76.7	47 - 160	
4,4'-DDE	21.1			J	IS 13C12-Dieldrin	73.2	40 - 151	
Dieldrin	11.7			J	IS 13C10-cis-Nonachlor	71.5	36 - 139	
cis-Nonachlor	ND	11.3			IS 13C12-2,4'-DDD	93.9	5 - 199	
2,4'-DDD	50.1				IS 13C12-2,4'-DDT	90.8	5 - 199	
2,4'-DDT	25.0			J	IS 13C12-4,4'-DDD	98.4	5 - 120	
4,4'-DDD	143				IS 13C12-4,4'-DDT	97.9	5 - 120	
4,4'-DDT	200							

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

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

Sample ID: PDI-144RAB-10-20-191113

EPA Method 1699

Client Data		Sample Data		Laboratory Data	
Name:	Anchor QEA, LLC	Matrix:	Soil	Lab Sample:	1904021-06
Project:	Gasco PDI	Sample Size:	1.08 g	QC Batch:	B9K0170
Date Collected:	13-Nov-2019 11:20	% Solids:	93.4	Date Received:	15-Nov-2019 8:54
Location:	006			Date Analyzed:	23-Nov-19 06:51
				Column:	ZB-50

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
Lindane (gamma-BHC)	ND	5.52			IS 13C6-Lindane (gamma-BHC)	69.3	11 - 120	
Aldrin	ND	2.34			IS 13C12-Aldrin	76.0	5 - 120	
Oxychlordane	ND	8.52			IS 13C10-Oxychlordane	79.5	23 - 135	
trans-Chlordane (gamma)	ND		14.7		IS 13C10-trans-Chlordane (gamma)	78.1	21 - 132	
trans-Nonachlor	13.2			J	IS 13C10-trans-Nonachlor	76.1	14 - 136	
cis-Chlordane (alpha)	16.9			J	IS 13C12-2,4'-DDE	84.1	47 - 160	
2,4'-DDE	ND	2.36			IS 13C12-4,4'-DDE	82.7	47 - 160	
4,4'-DDE	29.4			J	IS 13C12-Dieldrin	78.0	40 - 151	
Dieldrin	29.2			J	IS 13C10-cis-Nonachlor	76.9	36 - 139	
cis-Nonachlor	ND	8.69			IS 13C12-2,4'-DDD	101	5 - 199	
2,4'-DDD	65.6				IS 13C12-2,4'-DDT	101	5 - 199	
2,4'-DDT	39.1			J	IS 13C12-4,4'-DDD	106	5 - 120	
4,4'-DDD	204				IS 13C12-4,4'-DDT	108	5 - 120	
4,4'-DDT	265							

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

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

Sample ID: PDI-144RAB-20-29-191113

EPA Method 1699

Client Data		Sample Data		Laboratory Data	
Name:	Anchor QEA, LLC	Matrix:	Soil	Lab Sample:	1904021-07
Project:	Gasco PDI	Sample Size:	1.15 g	QC Batch:	B9K0170
Date Collected:	13-Nov-2019 12:00	% Solids:	93.5	Date Received:	15-Nov-2019 8:54
Location:	007			Date Extracted:	19-Nov-2019 7:27
				Date Analyzed:	23-Nov-19 07:40 Column: ZB-50

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
Lindane (gamma-BHC)	ND	4.28			IS 13C6-Lindane (gamma-BHC)	79.3	11 - 120	
Aldrin	ND		4.71		IS 13C12-Aldrin	84.9	5 - 120	
Oxychlordane	ND	11.5			IS 13C10-Oxychlordane	93.8	23 - 135	
trans-Chlordane (gamma)	47.7				IS 13C10-trans-Chlordane (gamma)	88.0	21 - 132	
trans-Nonachlor	16.3			J	IS 13C10-trans-Nonachlor	84.0	14 - 136	
cis-Chlordane (alpha)	26.8			J	IS 13C12-2,4'-DDE	91.4	47 - 160	
2,4'-DDE	ND		3.91		IS 13C12-4,4'-DDE	92.8	47 - 160	
4,4'-DDE	43.7				IS 13C12-Dieldrin	90.3	40 - 151	
Dieldrin	77.2				IS 13C10-cis-Nonachlor	92.0	36 - 139	
cis-Nonachlor	ND	12.2			IS 13C12-2,4'-DDD	115	5 - 199	
2,4'-DDD	55.1				IS 13C12-2,4'-DDT	117	5 - 199	
2,4'-DDT	78.3				IS 13C12-4,4'-DDD	125	5 - 120	H
4,4'-DDD	179				IS 13C12-4,4'-DDT	134	5 - 120	H
4,4'-DDT	476							

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

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

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank
Conc.	Concentration
CRS	Cleanup Recovery Standard
D	Dilution
DL	Detection limit
E	The associated compound concentration exceeded the calibration range of the instrument
H	Recovery and/or RPD was outside laboratory acceptance limits
I	Chemical Interference
IS	Internal Standard
J	The amount detected is below the Reporting Limit/LOQ
LOD	Limit of Detection
LOQ	Limit of Quantitation
M	Estimated Maximum Possible Concentration (CA Region 2 projects only)
NA	Not applicable
ND	Not Detected
OPR	Ongoing Precision and Recovery sample
P	The reported concentration may include contribution from chlorinated diphenyl ether(s).
Q	The ion transition ratio is outside of the acceptance criteria.
RL	Reporting Limit
TEQ	Toxic Equivalency
U	Not Detected (specific projects only)
*	See Cover Letter

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

Vista Analytical Laboratory Certifications

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

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

NELAP Accredited Test Methods

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

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

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

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

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: VISTA-20191114-102611

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

Project: Gasco PDI

Sample Custodian: SN

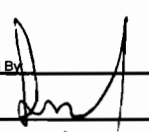
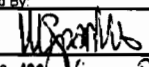
1605 Cornwall Avenue, Bellingham, WA 98225

Client: NW Natural

1904021 2.9°C, 2.4°C

Lab: VISTA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected		Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
				Date	Time						
001	PDI-1142RAB-20-30.4-191112	FD	SO	11/12/2019		2	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								HR Pesticides	SW8081B	30	4°C
002	PDI-142RAB-00-10-191112	N	SO	11/12/2019	11:20	2	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								HR Pesticides	SW8081B	30	4°C
003	PDI-142RAB-10-20-191112	N	SO	11/12/2019	12:00	2	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								HR Pesticides	SW8081B	30	4°C
004	PDI-142RAB-20-30.4-191112	N	SO	11/12/2019	14:35	2	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								HR Pesticides	SW8081B	30	4°C
005	PDI-144RAB-00-10-191113	N	SO	11/13/2019	9:55	2	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								HR Pesticides	SW8081B	30	4°C
006	PDI-144RAB-10-20-191113	N	SO	11/13/2019	11:20	2	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								HR Pesticides	SW8081B	30	4°C
007	PDI-144RAB-20-29-191113	N	SO	11/13/2019	12:00	2	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								HR Pesticides	SW8081B	30	4°C

Comment:					
Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature: 	Signature: 	Signature:	Signature:	Signature:	Signature:
Print Name: <u>Delaney Peterson</u>	Print Name: <u>Melissa Sparks</u>	Print Name:	Print Name:	Print Name:	Print Name:
Company: <u>Anchor QEA</u>	Company: <u>V&H</u>	Company:	Company:	Company:	Company:
Date/Time: <u>11/14/19 1222</u>	Date/Time: <u>11/13/19 0854</u>	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

CoC/Label Reconciliation Report WO# 1904021

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	Sample BaseMatrix	Comments
1904021-01 A	PDI-1142RAB-20-30.4-191112	<input checked="" type="checkbox"/> C1	12-Nov-19 00:00 <input type="checkbox"/> *	Amber Glass, 120 mL	Solid	
1904021-01 B	PDI-1142RAB-20-30.4-191112	<input checked="" type="checkbox"/> C2	12-Nov-19 00:00 <input type="checkbox"/> *	Amber Glass, 120 mL	Solid	
1904021-02 A	PDI-142RAB-00-10-191112	<input checked="" type="checkbox"/> C1	12-Nov-19 11:20 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
1904021-02 B	PDI-142RAB-00-10-191112	<input checked="" type="checkbox"/> C2	12-Nov-19 11:20 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
1904021-03 A	PDI-142RAB-10-20-191112	<input checked="" type="checkbox"/> C1	12-Nov-19 12:00 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
1904021-03 B	PDI-142RAB-10-20-191112	<input checked="" type="checkbox"/> C1	12-Nov-19 12:00 <input checked="" type="checkbox"/>	Amber Glass, 120 mL <input type="checkbox"/> *	Solid	
1904021-04 A	PDI-142RAB-20-30.4-191112	<input checked="" type="checkbox"/> C1	12-Nov-19 14:35 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
1904021-04 B	PDI-142RAB-20-30.4-191112	<input checked="" type="checkbox"/> C1	12-Nov-19 14:35 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
1904021-05 A	PDI-144RAB-00-10-191113	<input checked="" type="checkbox"/> C1	13-Nov-19 09:55 <input checked="" type="checkbox"/>	Amber Glass, 120 mL <input type="checkbox"/> *	Solid	
1904021-05 B	PDI-144RAB-00-10-191113	<input checked="" type="checkbox"/> C2	13-Nov-19 09:55 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
1904021-06 A	PDI-114RAB-10-20-191113 <input type="checkbox"/> *	<input type="checkbox"/> C1 HOG 11/15/19 C1	13-Nov-19 11:20 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
1904021-06 B	PDI-114RAB-10-20-191113 <input type="checkbox"/> *	<input type="checkbox"/> C1	13-Nov-19 11:20 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
1904021-07 A	PDI-144RAB-20-29-191113	<input checked="" type="checkbox"/> C2	13-Nov-19 12:00 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
1904021-07 B	PDI-144RAB-20-29-191113	<input checked="" type="checkbox"/> C2	13-Nov-19 12:00 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	

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

	Yes	No	NA
Sample Container Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample Custody Seals Intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Adequate Sample Volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Container Type Appropriate for Analysis(es)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Preservation Documented: Na2S2O3 Trizma None Other 11/15/19 HOG	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
If Chlorinated or Drinking Water Samples, Acceptable Preservation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments: * time on both jars say "14:40"
 *² Lid is cracked
 *³ Lid is cracked
 *⁴ Recon report should say "PDI-144RAB-10-20-191113" corrected was 11/15/19

C1 = Cooler 1
 C2 = Cooler 2

Verified by/Date: HOG 11/15/19

Sample Log-In Checklist

 Page # 1 of 1

 Vista Work Order #: 1904021 TAT std

Samples Arrival:	Date/Time <u>11/15/19 0854</u>	Initials: <u>WWS</u>	Location: <u>WR-2</u>
			Shelf/Rack: <u>N/A</u>
Delivered By:	<u>FedEx</u>	UPS	On Trac
		GSO	DHL
		Hand Delivered	Other
Preservation:	<u>Ice</u>	Blue Ice	Dry Ice
	None		
Temp °C: <u>2.9</u> (uncorrected)	Probe used: Y / <u>(N)</u>		Thermometer ID: <u>IR-3</u>
Temp °C: <u>2.9</u> (corrected)			

	YES	NO	NA
Shipping Container(s) Intact?	✓		
Shipping Custody Seals Intact?	✓		
Airbill <u>1 of 2</u> Trk # <u>7767 9171 1672</u>	✓		
Shipping Documentation Present?	✓		
Shipping Container	Vista	<u>Client</u>	Retain
		<u>Return</u>	Dispose
Chain of Custody / Sample Documentation Present? <u>COC in cooler 2 of 2</u>		✓	✓
Chain of Custody / Sample Documentation Complete?			✓
Holding Time Acceptable?	✓		
Logged In:	Date/Time <u>11/15/19 1025</u>	Initials: <u>WWS</u>	Location: <u>WR-2</u>
			Shelf/Rack: <u>A-1</u>
COC Anomaly/Sample Acceptance Form completed?	✓		

Comments:

Sample Log-In Checklist

 Page # 1 of 1

 Vista Work Order #: 1904021

 TAT std

Samples Arrival:	Date/Time <u>11/15/19 0854</u>	Initials: <u>WWS</u>	Location: <u>WR-2</u>				
			Shelf/Rack: <u>N/A</u>				
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac	<input type="checkbox"/> GSO	<input type="checkbox"/> DHL	<input type="checkbox"/> Hand Delivered	<input type="checkbox"/> Other
Preservation:	<input checked="" type="checkbox"/> Ice	<input type="checkbox"/> Blue Ice		<input type="checkbox"/> Dry Ice		<input type="checkbox"/> None	
Temp °C: <u>2.4</u>	(uncorrected)	Probe used: Y / <input checked="" type="checkbox"/> N			Thermometer ID: <u>IR-3</u>		
Temp °C: <u>2.4</u>	(corrected)						

	YES	NO	NA
Shipping Container(s) Intact?	✓		
Shipping Custody Seals Intact?	✓		
Airbill <u>2 of 2</u> Trk # <u>7769 9191 0600</u>	✓		
Shipping Documentation Present?	✓		
Shipping Container	Vista	<input checked="" type="checkbox"/> Client	Retain
			<input checked="" type="checkbox"/> Return
			Dispose
Chain of Custody / Sample Documentation Present?	✓		
Chain of Custody / Sample Documentation Complete?	✓		
Holding Time Acceptable?	✓		

Logged In:	Date/Time <u>11/15/19 1025</u>	Initials: <u>WWS</u>	Location: <u>WR-2</u>		
			Shelf/Rack: <u>2-1</u>		
COC Anomaly/Sample Acceptance Form completed?					✓

Comments:



ANOMALY FORM

Vista Work Order

1904021

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

- 1. The samples were received out of temperature at (WI-PHT): _____
Was Ice present: Yes No Melted Blue Ice
- 2. The Chain-of-Custody (CoC) was not relinquished properly.
- WWS 11/15/19 3. The CoC did not include collection time(s). 00:00 will be used unless notified otherwise. *Sample name: PDI-142RAB-20-304-19112*
- 4. The sample(s) did not include a sample collection time. All or Sample Name: _____
- 5. A sample ID discrepancy was found. See the Reconciliation report.
The CoC Sample ID will be used unless notified otherwise.
- WWS 11/15/19 6. A sample date and/or time discrepancy was found. See the Reconciliation report.
The CoC Sample date/time will be used unless notified otherwise.
- 7. The CoC did not include a sample matrix. The following sample matrix will be used: _____
- 8. Insufficient volume received for analysis. All or Sample Name: _____
- 9. The backup bottle was received broken. Sample Name: _____
- 10. CoC not received, illegible or destroyed.
- 11. The sample(s) were received out of holding time. All or Sample Name: _____
- 12. The CoC did not include an analysis. All or Sample Name: _____
- 13. Sample(s) received without collection date. All or Sample Name: _____
- 14. Sample(s) not received. All or Sample Name: _____
- 15. Sample(s) received broken. All or Sample Name: _____
- 16. An incorrect container-type was used. All or Sample Name: _____
- WWS 11/15/19 17. Other: *Received 2- 120ml amber jars with cracked lids.
Sample ID's: PDI-142RAB-10-20-19112 (8-bott container-diox.)
PDI-144RAB-00-10-19113 (8 container-pest.)*

Bolded items require sign-off

Client Contacted: _____

Date of Contact: _____

Vista Client Manager: _____

Resolution:

EXTRACTION INFORMATION

PRIORITY

Process Sheet

Workorder: **1904021**

29-Nov-19

Prep Expiration: 2020-11-11
Client: Anchor QEA, LLC

Workorder Due: ~~09-Dec-19~~ 00:00

TAT: 24 14

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

Prep Batch: B9K0169

Prep Data Entered: [Signature] 11/21/19
Date and Initials

Initial Sequence: S9L0029

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1904021-01	<input checked="" type="checkbox"/>	PDI-1142RAB-20-30.4-191112	15-Nov-19 08:54	WR-2 B-1	
1904021-02	<input checked="" type="checkbox"/>	PDI-142RAB-00-10-191112	15-Nov-19 08:54	WR-2 B-1	
1904021-03	<input checked="" type="checkbox"/>	PDI-142RAB-10-20-191112	15-Nov-19 08:54	WR-2 B-1	
1904021-04	<input checked="" type="checkbox"/>	PDI-142RAB-20-30.4-191112	15-Nov-19 08:54	WR-2 B-1	
1904021-05	<input checked="" type="checkbox"/>	PDI-144RAB-00-10-191113	15-Nov-19 08:54	WR-2 B-1	
1904021-06	<input checked="" type="checkbox"/>	PDI-144RAB-10-20-191113	15-Nov-19 08:54	WR-2 B-1	
1904021-07	<input checked="" type="checkbox"/>	PDI-144RAB-20-29-191113	15-Nov-19 08:54	WR-2 B-1	

WO Comments: ~~Test 4g extraction (dry weight) DDX, Aldrin, 5-Chlordane, Dieldrin, Lindane~~
Dioxin - 10g (dry weight)
~~Test 5g extraction (dry weight)~~

Pre-Prep Check Out: NA
Pre-Prep Check In: NA

Prep Check Out: DF 11/19/19
Prep Check In: DF 11/19/19

Prep Reconciled Initials/Date: DF 11/19/19
Spike Reconciled Initials/Date: JL 11/20/19
VialBoxID: Σ

PREPARATION BENCH SHEET

Matrix: Solid

B9K0169

Chemist: DF

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 19-Nov-19 07:24

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	B9K0169-BLK1	NA	(10.00)	DF 11/19/19	11/20/19	11/20/19	11/20/19	11/20/19	11/20/19	11/20/19
<input type="checkbox"/>	B9K0169-BS1	↓	(10.00)	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1904016-03	12.22	12.33	↓	↓	N/A	↓	↓	↓	↓
<input type="checkbox"/>	1904016-04	12.42	12.53	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1904016-05	10.93	10.93	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1904016-06 (A)	11.92	11.96	↓	↓	11/20/19	↓	↓	↓	↓
<input type="checkbox"/>	1904016-07	10.72	10.86	↓	↓	N/A	↓	↓	↓	↓
<input type="checkbox"/>	1904016-08	10.91	10.93	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1904016-09	11.04	11.16	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1904021-01	11.52	11.65	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1904021-02	10.76	10.82	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1904021-03	10.62	10.64	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1904021-04	11.36	11.53	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1904021-05	10.89	10.97	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1904021-06	10.71	10.81	↓	↓	↓	↓	↓	↓	↓

IS Name <u>V2</u>	NS Name <u>V5</u>	CRS Name <u>V6</u>	RS Name <u>V6</u>	Cycle Time	APP: SEFUN <u>SOX</u> <u>SDS</u>	Check Out: <u>DF 11/19/19</u>
PCDD/F <u>19C1903, 10uL</u>	PCDD/F <u>18F1913, 10uL</u>	PCDD/F <u>19C1602, 10uL</u>	PCDD/F <u>19I1603, 10uL</u>	Start Date/Time <u>11/19/19</u>	SOLV: <u>Toluene</u>	Check In: <u>DF 11/19/19</u>
PCB _____	PCB _____	PCB _____	PCB _____	Stop Date/Time <u>11/20/19</u>	Other <u>NA</u>	Balance ID: <u>HRMS-9</u>
PAH _____	PAH _____	PAH _____	PAH _____	<u>14:50</u>	Final Volume(s) <u>20uL</u>	
					<u>C14</u>	

Comments:

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

0.51

PREPARATION BENCH SHEET

Matrix: Solid

B9K0169

Chemist: DF

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 19-Nov-19 07:24

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/DATE	ABSG CHEM/DATE	AA CHEM/DATE	Florisil CHEM/DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	1904021-07	10.71	10.72	DE 11/19/19	11/20/19	N/A	11/20/19	11/20/19	11/20/19	11/21/19

ⓐ sample was black after extraction. 11/20/19

IS Name <u>V2</u>	NS Name <u>V5</u>	CRS Name <u>V6</u>	RS Name <u>V6</u>	Cycle Time	APP: SEFUN SOX SDS	Check Out: <u>DF 11/19/19</u>
PCDD/F <u>19C1902, 10mL</u>	PCDD/F <u>18F1913, 10mL</u>	PCDD/F <u>19I1602, 10mL</u>	PCDD/F <u>19I1603, 10mL</u>	Start Date/Time	SOLV: <u>Toluene</u>	Check In: <u>DF 11/19/19</u>
PCB _____	PCB _____	PCB _____	PCB _____	11/19/19 1430	Other <u>NA</u>	Balance ID: <u>HRMS-9</u>
PAH _____	PAH _____	PAH _____	PAH _____	Stop Date/Time	Final Volume(s) <u>20mL</u>	
				11/20/19 631	<u>C14</u>	
				11/20/19 651		

Comments:

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

Percent Moisture/ Percent Solids

D2216-90

BATCH ID B9K0157

Analyst: DF	Test Code: %Moist/%Solids
Analyte:	Units: %
Oven ID: 01 02	

Dried at 110°C +/- 5°C

Data Entry Verified by: (Initial and Date) DF 11/19/19

Inst HRMS-9 Date/Time IN: Date/Time OUT
11/18/19 13:00 11/19/19 7:15

Particle Size	SampID	SampType	Initial and Date:		Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	Visual Inspection	Cl-	pH Before	pH After	Acid Added	Sample Homogenized*
			Pan Tare Wt. (gms)	DF 11/18/19										
	1904016-03	A	Sample	1.2800 ✓	10.8500 ✓	9.1100 ✓	7.8300	81.82	Clay	NA	NA	NA	NA	X
	1904016-04	A	Sample	1.2800 ✓	9.7900 ✓	8.1300 ✓	6.8500	80.49	Clay	NA	NA	NA	NA	X
	1904016-05	A	Sample	1.2800 ✓	9.1400 ✓	8.4700 ✓	7.1900	91.48	Dirt	NA	NA	NA	NA	X
	1904016-06	A	Sample	1.2700 ✓	7.4700 ✓	6.4700 ✓	5.2000	83.87	Dirt	NA	NA	NA	NA	X
	1904016-07	A	Sample	1.2900 ✓	8.5400 ✓	8.0500 ✓	6.7600	93.24	Dirt	NA	NA	NA	NA	X
	1904016-08	A	Sample	1.2800 ✓	7.3800 ✓	6.8700 ✓	5.5900	91.64	Dirt	NA	NA	NA	NA	X
	1904016-09	A	Sample	1.2800 ✓	8.6000 ✓	7.9100 ✓	6.6300	90.57	Dirt	NA	NA	NA	NA	X
	1904021-01	A	Sample	1.2900 ✓	9.1800 ✓	8.1400 ✓	6.8500	86.82	Dirt	NA	NA	NA	NA	X
	1904021-02	A	Sample	1.2900 ✓	9.4000 ✓	8.8300 ✓	7.5400	92.97	Dirt	NA	NA	NA	NA	X
	1904021-03	A	Sample	1.2800 ✓	6.1000 ✓	5.8200 ✓	4.5400	94.19	Dirt	NA	NA	NA	NA	X
	1904021-04	A	Sample	1.2700 ✓	11.3900 ✓	10.1800 ✓	8.9100	88.04	Dirt	NA	NA	NA	NA	X
	1904021-05	A	Sample	1.2800 ✓	7.3000 ✓	6.8100 ✓	5.5300	91.86	Dirt	NA	NA	NA	NA	X
	1904021-06	A	Sample	1.2900 ✓	7.5100 ✓	7.1000 ✓	5.8100	93.41	Dirt	NA	NA	NA	NA	X
	1904021-07	A	Sample	1.2800 ✓	4.6500 ✓	4.4300 ✓	3.1500	93.47	Dirt	NA	NA	NA	NA	X

*Sample homogenized in sample container unless otherwise noted.

Percent Moisture/ Percent Soli

D2216-90

BATCH ID B9K0157

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

Inst **HLMS-9** Date/Time IN: **11/18/19** Date/Time OUT: **11/19/19**
 (3:0) (7:15)

*DF 11/18/19

Particle Size	SampleID	SampType	Initial and Date: DF 11/18/19		Date: DF 11/18/19		Dry Sample Weight (g)	%Solids RawVal	DF 11/18/19				Sample Homogenized*
			Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Visual Inspection			Cl-	pH Before	pH After	Acid Added	
			1.28	10.85	9.11			Clay	NA	NA	NA	NA	X
			1.28	9.79	8.13			↓					X
			1.28	9.14	8.47			Dirt					X
			1.27	7.47	6.47								X
			1.29	8.54	8.05								X
			1.28	7.38	6.87								X
			1.28	8.60	7.91								X
			1.29	9.18	8.14								X
			1.29	9.40	8.85								X
			1.28	6.10	5.82								X
			1.27	11.39	10.18								X
			1.28	7.50	6.81								X
			1.29	7.51	7.10			Clay/Dirt					X
			1.28	4.65	4.43			Dirt					X

*Sample homogenized in sample container unless otherwise noted.

**Dirt DF 11/18/19

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1904016-03	12.33 ✓	81.81818	10.0882	20	19-Nov-19 07:24	DFO			Soil	1613 Full List
1904016-04	12.53 ✓	80.49354	10.0858	20	19-Nov-19 07:24	DFO			Soil	1613 Full List
1904016-05	10.93 ✓	91.47583	9.9983	20	19-Nov-19 07:24	DFO			Soil	1613 Full List
1904016-06	11.96 ✓	83.87096	10.0310	20	19-Nov-19 07:24	DFO			Soil	1613 Full List
1904016-07	10.86 ✓	93.24138	10.1260	20	19-Nov-19 07:24	DFO			Soil	1613 Full List
1904016-08	10.93 ✓	91.63934	10.0162	20	19-Nov-19 07:24	DFO			Soil	1613 Full List
1904016-09	11.16 ✓	90.57376	10.1080	20	19-Nov-19 07:24	DFO			Soil	1613 Full List
1904021-01	11.65 ✓	86.81876	10.1144	20	19-Nov-19 07:24	DFO			Soil	1613 Full List
1904021-02	10.82 ✓	92.97164	10.0595	20	19-Nov-19 07:24	DFO			Soil	1613 Full List
1904021-03	10.64 ✓	94.19088	10.0219	20	19-Nov-19 07:24	DFO			Soil	1613 Full List
1904021-04	11.53 ✓	88.04348	10.1514	20	19-Nov-19 07:24	DFO			Soil	1613 Full List
1904021-05	10.97 ✓	91.86046	10.0771	20	19-Nov-19 07:24	DFO			Soil	1613 Full List
1904021-06	10.81 ✓	93.40836	10.0974	20	19-Nov-19 07:24	DFO			Soil	1613 Full List
1904021-07	10.72 ✓	93.4718	10.0202	20	19-Nov-19 07:24	DFO			Soil	1613 Full List
B9K0169-BLK1	10 ✓			20	19-Nov-19 07:24	DFO				QC
B9K0169-BS1	10 ✓			20	19-Nov-19 07:24	DFO	18F1913 ✓	10 ✓		QC

[Handwritten signature] 11/21/19

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

Process Sheet
 Workorder: **1904021**

Rx

Prep Expiration: 2020-11-11
 Client: Anchor QEA, LLC

Workorder Due: 13-Dec-19 00:00

TAT: 28

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

Prep Batch: B9L0200

Prep Data Entered: AZ 6/07/2020
Date and Initials

Initial Sequence: SOA0018

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1904021-01	<input type="checkbox"/>	PDI-1142RAB-20-30.4-191112	15-Nov-19 08:54	WR-2 D-3	
1904021-02	<input type="checkbox"/>	PDI-142RAB-00-10-191112	15-Nov-19 08:54	WR-2 D-3	
1904021-03	<input type="checkbox"/>	PDI-142RAB-10-20-191112	15-Nov-19 08:54	WR-2 D-3	
1904021-04	<input type="checkbox"/>	PDI-142RAB-20-30.4-191112	15-Nov-19 08:54	WR-2 D-3	
1904021-05	<input type="checkbox"/>	PDI-144RAB-00-10-191113	15-Nov-19 08:54	WR-2 D-3	
1904021-06	<input checked="" type="checkbox"/>	PDI-144RAB-10-20-191113	15-Nov-19 08:54	WR-2 D-3	
1904021-07	<input type="checkbox"/>	PDI-144RAB-20-29-191113	15-Nov-19 08:54	WR-2 D-3	

WO Comments: ~~Pest - 1g extraction (dry weight), DDX, Aldrin, 5-Chlordane, Dieldrin, Lindane~~
 Dioxin - 10g (dry weight)
 PCB - 5g extraction (dry weight)

Pre-Prep Check Out: _____

Prep Check Out: TL 12/18/19

Prep Reconciled Initials/Date: TL 12/18/19

Pre-Prep Check In: _____

Prep Check In: TL 12/18/19

Spike Reconciled Initials/Date: DF 12/18/19

VialBoxID: Cherry Sprite

PREPARATION BENCH SHEET

Matrix: Solid

B9L0200

Chemist: TL

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 18-Dec-19 06:38

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisol CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	B9L0200-BLKI	NA	(10.00)	TL 12/18/19	RTL 12/31/19	TL 12/31/19	AZ 01/02/20	AO 01/02/20	AO 01/02/20	AO AZ 01/02/19
<input type="checkbox"/>	B9L0200-BS1	NA	(10.00)							
<input type="checkbox"/>	B9L0200-DUP1 1904208-05	(B) 11.75	11.80							
<input type="checkbox"/>	B9L0200-DUP2 1904207-01	14.09	14.08			NA				
<input type="checkbox"/>	1904021-06RE1	10.71	10.76							
<input type="checkbox"/>	1904207-01	14.09	14.11							
<input type="checkbox"/>	1904207-02	11.02	11.06							
<input type="checkbox"/>	1904207-03	15.18	15.20							
<input type="checkbox"/>	1904207-04	(B) 16.57	16.63							
<input type="checkbox"/>	1904207-05	20.70	20.71							
<input type="checkbox"/>	1904207-06	19.67	19.67							
<input type="checkbox"/>	1904208-01	(B) 12.08	12.09			TL 12/31/19				
<input type="checkbox"/>	1904208-02	(B) 13.34	13.35							
<input type="checkbox"/>	1904208-03	(B)(A) 13.30	13.30							
<input type="checkbox"/>	1904208-04	(B) 11.68	11.74							

IS Name (U)	NS Name (S)	CRS Name (V)	RS Name (S)	Cycle Time	APP: SEFUN SOX (SDS)	Check Out: Chemist/Date: TL 12/18/19
PCDD/F 17C1902 10ul	PCDD/F 17F1913 10ul	PCDD/F 19E1602 10ul	PCDD/F 17F1603 10ul	Start Date/Time 12/18/19 14:00	SOLV: Toluene	Check In: Chemist/Date: TL 12/18/19
PCB	PCB	PCB	PCB	Stop Date/Time 12/19/19 6:00	Other: NA	Balance ID: HRMS-8
PAH	PAH	PAH	PAH		Final Volume(s) 20ul	
					614	

Comments:

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

(A) Crystallized during rotovaping AO 01/02/20

PREPARATION BENCH SHEET

B9L0200

Chemist: TL

Matrix: Solid

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 18-Dec-19 06:38

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	1904208-05	11.75	11.89	DF TL 12/18/19	TL TL 12/31/19	TL 12/31/19	AZ 01/02/20	AO 01/02/20	AO AZ 01/02/20	AO AZ 01/02/20
<input type="checkbox"/>	1904208-06	12.32	12.33	T	T	T	T	T	T	T
<input type="checkbox"/>	1904208-07	12.27	12.41	T	T	NA	T	T	T	T
<input type="checkbox"/>	1904208-08	11.92	11.94	T	T	T	T	T	T	T
<input type="checkbox"/>	1904208-09	12.01	12.01	T	T	TL 12/31/19	T	T	T	T
<input type="checkbox"/>	1904208-10	12.46	12.52	T	T	T	T	T	T	T

(B) ABSG/AA darkly colored AO 01/02/20
AO 01/02/20

IS Name <u>V1</u>	NS Name <u>V3</u>	CRS Name <u>V5</u>	RS Name <u>V5</u>	Cycle Time	APP: SEFUN SOX <u>SDS</u>	Check Out: Chemist/Date: <u>TL 12/18/19</u>
PCDD/F <u>19F1107, 10mL</u>	PCDD/F <u>18F113, 10mL</u>	PCDD/F <u>19F1102, 10mL</u>	PCDD/F <u>19F1103, 10mL</u>	Start Date/Time <u>12/18/19 1400</u>	SOLV: <u>tol</u>	Check In: Chemist/Date: <u>TL 12/18/19</u>
PCB	PCB	PCB	PCB	Stop Date/Time <u>12/19/19 600</u>	Other <u>NA</u>	Balance ID: <u>HRMS-8</u>
PAH	PAH	PAH	PAH	Final Volume(s) <u>20mL</u>	<u>cup</u>	

Comments:

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

Moisture/ Percent Solids

D2216-90

BATCH ID B9K0157

Analyst: DF Analyte: Dried at 110°C±/5°C Oven ID: 01 02	Test Code: %Moist/%Solids Units: %	Data Entry Verified by: <i>DF</i> (Initial and Date) 01/07/20
---	---	--

Inst HRMS-9 Date/Time IN: 11/18/19 13:00 Date/Time OUT: 11/19/19 7:15

Particle Size	SampID	SampType	Initial and Date:		DF 11/18/19		DF 11/19/19		%Solids RawVal	Visual Inspection	Cl-	pH Before	pH After	Acid Added	Sample Homogenized*
			Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)									
	1904016-03	A	Sample	1.2800	10.8500	9.1100	7.8300	81.82	Clay	NA	NA	NA	NA	X	
	1904016-04	A	Sample	1.2800	9.7900	8.1300	6.8500	80.49	Clay	NA	NA	NA	NA	X	
	1904016-05	A	Sample	1.2800	9.1400	8.4700	7.1900	91.48	Dirt	NA	NA	NA	NA	X	
	1904016-06	A	Sample	1.2700	7.4700	6.4700	5.2000	83.87	Dirt	NA	NA	NA	NA	X	
	1904016-07	A	Sample	1.2900	8.5400	8.0500	6.7600	93.24	Dirt	NA	NA	NA	NA	X	
	1904016-08	A	Sample	1.2800	7.3800	6.8700	5.5900	91.64	Dirt	NA	NA	NA	NA	X	
	1904016-09	A	Sample	1.2800	8.6000	7.9100	6.6300	90.57	Dirt	NA	NA	NA	NA	X	
	1904021-01	A	Sample	1.2900	9.1800	8.1400	6.8500	86.82	Dirt	NA	NA	NA	NA	X	
	1904021-02	A	Sample	1.2900	9.4000	8.8300	7.5400	92.97	Dirt	NA	NA	NA	NA	X	
	1904021-03	A	Sample	1.2800	6.1000	5.8200	4.5400	94.19	Dirt	NA	NA	NA	NA	X	
	1904021-04	A	Sample	1.2700	11.3900	10.1800	8.9100	88.04	Dirt	NA	NA	NA	NA	X	
	1904021-05	A	Sample	1.2800	7.3000	6.8100	5.5300	91.86	Dirt	NA	NA	NA	NA	X	
	1904021-06	A	Sample	1.2900	7.5100	7.1000	5.8100	93.41	Dirt	NA	NA	NA	NA	X	
	1904021-07	A	Sample	1.2800	4.6500	4.4300	3.1500	93.47	Dirt	NA	NA	NA	NA	X	

*Sample homogenized in sample container unless otherwise noted.

Batch: B9L0200

Matrix: Solid

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1904021-06RE1	10.76 ✓	93.40836	10.0507	20 ✓	18-Dec-19 06:38	TL ✓			Soil	1613 Full List
1904207-01	14.11 ✓	71.19309	10.0453	20	18-Dec-19 06:38	TL			Sediment	1613 Full List
1904207-02	11.06 ✓	90.78261	10.0406	20	18-Dec-19 06:38	TL			Sediment	1613 Full List
1904207-03	15.2 ✓	65.85957	10.0107	20	18-Dec-19 06:38	TL			Sediment	1613 Full List
1904207-04	16.63 ✓	60.36036	10.0379	20	18-Dec-19 06:38	TL			Sediment	1613 Full List
1904207-05	20.71 ✓	48.31892	10.0068	20	18-Dec-19 06:38	TL			Sediment	1613 Full List
1904207-06	19.67 ✓	50.83334	9.9989	20	18-Dec-19 06:38	TL			Sediment	1613 Full List
1904208-01	12.09 ✓	82.77311	10.0073	20	18-Dec-19 06:38	TL			Soil	1613 Full List
1904208-02	13.35 ✓	74.94601	10.0053	20	18-Dec-19 06:38	TL			Soil	1613 Full List
1904208-03	13.3 ✓	75.16779	9.9973	20	18-Dec-19 06:38	TL			Soil	1613 Full List
1904208-04	11.74 ✓	85.59837	10.0492	20	18-Dec-19 06:38	TL			Soil	1613 Full List
1904208-05	11.85 ✓	85.10204	10.0846	20	18-Dec-19 06:38	TL			Soil	1613 Full List
1904208-06	12.33 ✓	81.19002	10.0107	20	18-Dec-19 06:38	TL			Soil	1613 Full List
1904208-07	12.41 ✓	81.50407	10.1147	20	18-Dec-19 06:38	TL			Soil	1613 Full List
1904208-08	11.94 ✓	83.859	10.0128	20	18-Dec-19 06:38	TL			Soil	1613 Full List
1904208-09	12.01 ✓	83.29809	10.0041	20	18-Dec-19 06:38	TL			Soil	1613 Full List
1904208-10	12.52 ✓	80.26846	10.0496	20	18-Dec-19 06:38	TL			Soil	1613 Full List
B9L0200-BLK1	10 ✓			20	18-Dec-19 06:38	TL				QC
B9L0200-BS1	10 ✓			20	18-Dec-19 06:38	TL	18F1913 ✓	10 ✓		QC
B9L0200-DUP1	11.8 ✓			20	18-Dec-19 06:38	TL				QC
B9L0200-DUP2	14.08 ✓			20	18-Dec-19 06:38	TL				QC

All bolded data on report verified against written benchsheet by (initial/date) AZ 01/07/2020

Printed: 1/7/2020 11:17:05AM
Page 1 of 1

PRIORITY

Process Sheet

Workorder: **1904021**

29-Nov-19

Prep Expiration: 2020-11-11
Client: Anchor QEA, LLC

Workorder Due: ~~09-Dec-19~~ 00:00

TAT: 2414

Method: **1699 Full List**
Matrix: **Solid**
Client Matrix: Soil
Also run: **Percent Solids**

Prep Batch: B9K0170

Prep Data Entered: 11/24/19 TC
Date and Initials

Initial Sequence: S9K0054

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1904021-01	<input checked="" type="checkbox"/>	PDI-1142RAB-20-30.4-191112	15-Nov-19 08:54	WR-2 B-1	
1904021-02	<input checked="" type="checkbox"/>	PDI-142RAB-00-10-191112	15-Nov-19 08:54	WR-2 B-1	
1904021-03	<input checked="" type="checkbox"/>	PDI-142RAB-10-20-191112	15-Nov-19 08:54	WR-2 B-1	
1904021-04	<input checked="" type="checkbox"/>	PDI-142RAB-20-30.4-191112	15-Nov-19 08:54	WR-2 B-1	
1904021-05	<input checked="" type="checkbox"/>	PDI-144RAB-00-10-191113	15-Nov-19 08:54	WR-2 B-1	
1904021-06	<input checked="" type="checkbox"/>	PDI-144RAB-10-20-191113	15-Nov-19 08:54	WR-2 B-1	
1904021-07	<input checked="" type="checkbox"/>	PDI-144RAB-20-29-191113	15-Nov-19 08:54	WR-2 B-1	

WO Comments: **Pest - 1g extraction (dry weight). DDX, Aldrin, 5-Chlordane, Dieldrin, Lindane**
~~Dioxin - 10g (dry weight)~~
~~POB - 5g extraction (dry weight)~~

Pre-Prep Check Out: DF 11/18/19
Pre-Prep Check In: DF 11/18/19

Prep Check Out: DF 11/19/19
Prep Check In: DF 11/19/19

Prep Reconciled Initials/Date: DF 11/18/19
Spike Reconciled Initials/Date: DF 11/19/19
VialBoxID: Washed potatoes

PREPARATION BENCH SHEET

Matrix: Solid

B9K0170

Chemist: DF

Method: 1699 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 19-Nov-19 07:27

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	XBSG CHEM/ DATE	<u>Amicor</u> AA CHEM/ DATE	Florisol CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	B9K0170-BLK1	NA	(1.00)	# TL 11/19/19	NA	NA	# 11/20/19	TL 11/21/19	TL 11/21/19	# TL 11/21/19
<input type="checkbox"/>	B9K0170-BS1	J	(1.00)	T	T	T	T	T	T	T
<input type="checkbox"/>	1904016-03	1.22	1.23	T	T	T	T	T	T	T
<input type="checkbox"/>	1904016-04	1.24	1.26	T	T	T	T	T	T	T
<input type="checkbox"/>	1904016-05	1.09	1.11	T	T	T	T	T	T	T
<input type="checkbox"/>	1904016-06 (A)	1.19	1.20	T	T	T	T	T	T	T
<input type="checkbox"/>	1904016-07	1.07	1.08	T	T	T	T	T	T	T
<input type="checkbox"/>	1904016-08	1.09	1.12	T	T	T	T	T	T	T
<input type="checkbox"/>	1904016-09	1.10	1.11	T	T	T	T	T	T	T
<input type="checkbox"/>	1904021-01 (A)	1.15	1.22	T	T	T	T	T	T	T
<input type="checkbox"/>	1904021-02	1.08	1.10	T	T	T	T	T	T	T
<input type="checkbox"/>	1904021-03	1.06	1.08	T	T	T	T	T	T	T
<input type="checkbox"/>	1904021-04 (A)	1.14	1.23	T	T	T	T	T	T	T
<input type="checkbox"/>	1904021-05	1.09	1.10	T	T	T	T	T	T	T
<input type="checkbox"/>	1904021-06	1.07	1.08	T	T	T	T	T	T	T

IS Name <u>V6</u>	NS Name <u>V0</u>	CRS Name	RS Name <u>V5</u>	Cycle Time	APP: SEFUN (SOX) (SDS)	Check Out: <u>DF 11/19/19</u>
PCDD/F	PCDD/F	PCDD/F	PCDD/F	Start Date/Time	SOLV: <u>70: 50 Hex / 50 Ethyl</u>	Chemist/Date: <u>DF 11/18/19</u>
PCB	PCB	PCB	PCB	<u>11/19/19</u>	Other <u>NA</u>	Check In: <u>DF 11/19/19</u>
PAH	PAH	PAH	PAH	Stop Date/Time	Final Volume(s) <u>20ml</u>	Balance ID: <u>HRMS-9</u>
<u>1699: 18D1602, 10ml</u>	<u>19A2304, 10ml</u>	<u>NA</u>	<u>18D1603, 10ml</u>	<u>11/20/19</u>	<u>Ca</u>	

Comments:

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

(A) yellow color at #V. 1:10 dilution made DF 11/21/19

PREPARATION BENCH SHEET

Matrix: Solid

B9K0170

Chemist: DF

Method: 1699 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 19-Nov-19 07:27

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	<u>Chloroform</u> AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	1904021-07	1.07	1.15	DF 11/19/19	NA	NA	DF 11/20/19	TL 11/21/19	TL 11/21/19	DF TL 11/21/19

IS Name <u>V6</u>	NS Name <u>V6</u>	CRS Name	RS Name	Cycle Time	APP: SEFUN <u>SOX SDS</u>	Check Out: <u>DF 11/19/19</u>
PCDD/F	PCDD/F	PCDD/F	PCDD/F	Start Date/Time <u>11/19/19</u>	SOLV: <u>70/30 Hex Ethyl Acetate</u>	Chemist/Date: <u>DF 11/19/19</u>
PCB	PCB	PCB	PCB	Stop Date/Time <u>11/20/19</u>	Other <u>NA</u>	Check In: <u>DF 11/19/19</u>
PAH	PAH	PAH	PAH	Final Volume(s) <u>20mL</u>		Chemist/Date: <u>DF 11/19/19</u>
<u>1699: 18D1602, 10mL</u>	<u>18A2304, 10mL</u>	<u>NA</u>			<u>9g</u>	Balance ID: <u>HRMS-9</u>

Comments:

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

Percent Moisture/ Percent Solids

D2216-90

BATCH ID B9K0157

<p>Analyst: DF</p> <p>Analyte:</p> <p style="font-size: small;">Dried at 110°C+/-5°C</p> <p>Oven ID: 01 02</p>	<p>Test Code: %Moist/%Solids</p> <p>Units: %</p>	<p>Data Entry Verified by (Initial and Date) <u>DF 11/19/19</u></p>
---	--	---

Inst HRMS-9 Date/Time IN: 11/18/19 13:00 Date/Time OUT: 11/19/19 7:15

Particle Size	SampID	SampType	E		F		G		H		I		K		L		M		N		O		P
			Intial and Date:	Pan	Wet Pan and Sample	Dry Pan and Sample	Dry Sample	%Solids	Visual	Cl-	pH	pH	Acid	DF 11/18/19	DF 11/18/19	DF 11/18/19	DF 11/18/19	DF 11/18/19	DF 11/18/19	DF 11/18/19	DF 11/18/19	DF 11/18/19	DF 11/18/19
			Tare Wt. (gms)	Weight (g)	Weight (g)	Weight (g)	Weight (g)	RawVal	Inspection	Before	After	Added										Sample Homogenized*	
	1904016-03	A	Sample	1.2800	10.8500	9.1100	7.8300	81.82	Clay	NA	NA	NA	NA									X	
	1904016-04	A	Sample	1.2800	9.7900	8.1300	6.8500	80.49	Clay	NA	NA	NA	NA									X	
	1904016-05	A	Sample	1.2800	9.1400	8.4700	7.1900	91.48	Dirt	NA	NA	NA	NA									X	
	1904016-06	A	Sample	1.2700	7.4700	6.4700	5.2000	83.87	Dirt	NA	NA	NA	NA									X	
	1904016-07	A	Sample	1.2900	8.5400	8.0500	6.7600	93.24	Dirt	NA	NA	NA	NA									X	
	1904016-08	A	Sample	1.2800	7.3800	6.8700	5.5900	91.64	Dirt	NA	NA	NA	NA									X	
	1904016-09	A	Sample	1.2800	8.6000	7.9100	6.6300	90.57	Dirt	NA	NA	NA	NA									X	
	1904021-01	A	Sample	1.2900	9.1800	8.1400	6.8500	86.82	Dirt	NA	NA	NA	NA									X	
	1904021-02	A	Sample	1.2900	9.4000	8.8300	7.5400	92.97	Dirt	NA	NA	NA	NA									X	
	1904021-03	A	Sample	1.2800	6.1000	5.8200	4.5400	94.19	Dirt	NA	NA	NA	NA									X	
	1904021-04	A	Sample	1.2700	11.3900	10.1800	8.9100	88.04	Dirt	NA	NA	NA	NA									X	
	1904021-05	A	Sample	1.2800	7.3000	6.8100	5.5300	91.86	Dirt	NA	NA	NA	NA									X	
	1904021-06	A	Sample	1.2900	7.5100	7.1000	5.8100	93.41	Dirt	NA	NA	NA	NA									X	
	1904021-07	A	Sample	1.2800	4.6500	4.4300	3.1500	93.47	Dirt	NA	NA	NA	NA									X	

*Sample homogenized In sample container unless otherwise noted.

Percent Moisture/ Percent Solids

D2216-90

BATCH ID B9K0157

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

Inst **HLMS-9** Date/Time IN: 11/18/19 Date/Time OUT: 11/19/19
15:00 07:15

*DF 11/18/19

Particle Size	SampleID	SampType	Initial and Date: <u>DF 11/18/19</u>		Date: <u>DF 11/19/19</u>		Dry Sample Weight (g)	%Solids RawVal	Date: <u>DF 11/18/19</u>				Sample Homogenized*
			Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Visual Inspection			Cl-	pH Before	pH After	Acid Added	
	1904016-03	Sample	1.28	10.85	9.11			Clay	NT	NA	NA	NA	X
	1904016-04	Sample	1.28	9.79	8.13								X
	1904016-05	Sample	1.28	9.14	8.47			Dirt					X
	1904016-06	Sample	1.27	7.47	6.47								X
	1904016-07	Sample	1.29	8.54	8.05								X
	1904016-08	Sample	1.28	7.38	6.07								X
	1904016-09	Sample	1.28	8.60	7.91								X
	1904021-01	Sample	1.29	9.18	8.14								X
	1904021-02	Sample	1.29	9.40	8.83								X
	1904021-03	Sample	1.28	6.10	5.82								X
	1904021-04	Sample	1.27	11.39	10.18								X
	1904021-05	Sample	1.28	7.50	6.81								X
	1904021-06	Sample	1.29	7.51	7.10								X
	1904021-07	Sample	1.28	4.65	4.43								X

*Sample homogenized in sample container unless otherwise noted.

**Dirt DF 11/18/19

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1904016-03	1.23 /	81.81818	1.0064	20 /	19-Nov-19 07:27	DFO			Soil	1699 Full List
1904016-04	1.26 /	80.49354	1.0142	20 /	19-Nov-19 07:27	DFO			Soil	1699 Full List
1904016-05	1.11 /	91.47583	1.0154	20 /	19-Nov-19 07:27	DFO			Soil	1699 Full List
1904016-06	1.2 /	83.87096	1.0065	20 /	19-Nov-19 07:27	DFO			Soil	1699 Full List
1904016-07	1.08 /	93.24138	1.0070	20 /	19-Nov-19 07:27	DFO			Soil	1699 Full List
1904016-08	1.12 /	91.63934	1.0264	20 /	19-Nov-19 07:27	DFO			Soil	1699 Full List
1904016-09	1.11 /	90.57376	1.0054	20 /	19-Nov-19 07:27	DFO			Soil	1699 Full List
1904021-01	1.22 /	86.81876	1.0592	20 /	19-Nov-19 07:27	DFO			Soil	1699 Full List
1904021-02	1.1 /	92.97164	1.0227	20 /	19-Nov-19 07:27	DFO			Soil	1699 Full List
1904021-03	1.08 /	94.19088	1.0173	20 /	19-Nov-19 07:27	DFO			Soil	1699 Full List
1904021-04	1.23 /	88.04348	1.0829	20 /	19-Nov-19 07:27	DFO			Soil	1699 Full List
1904021-05	1.1 /	91.86046	1.0105	20 /	19-Nov-19 07:27	DFO			Soil	1699 Full List
1904021-06	1.08 /	93.40836	1.0088	20 /	19-Nov-19 07:27	DFO			Soil	1699 Full List
1904021-07	1.15 /	93.4718	1.0749	20 /	19-Nov-19 07:27	DFO			Soil	1699 Full List
B9K0170-BLK1	1 /			20 /	19-Nov-19 07:27	DFO				QC
B9K0170-BS1	1 /			20 /	19-Nov-19 07:27	DFO	18A2304 /	10 /		QC

All bolded data on report verified against written benchsheet by (initial/date) JR 11/22/19

Process Sheet
Workorder: 1904021

Rx 2
HC 12/20/19

Prep Expiration: 2020-11-11
Client: Anchor QEA, LLC

Workorder Due: 13-Dec-19 00:00

TAT: 28

Method: 1699 Full List
Matrix: Solid
Client Matrix: Soil
Also run: Percent Solids

Prep Batch: 8960270

Prep Data Entered: Sub 01/08/20
Date and Initials

Initial Sequence: SDA0057

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1904021-01	A <input checked="" type="checkbox"/>	PDI-1142RAB-20-30.4-191112	15-Nov-19 08:54	WR-2 D-3	
1904021-02	<input type="checkbox"/>	PDI-142RAB-00-10-191112	15-Nov-19 08:54	WR-2 D-3	
1904021-03	<input type="checkbox"/>	PDI-142RAB-10-20-191112	15-Nov-19 08:54	WR-2 D-3	
1904021-04	A <input checked="" type="checkbox"/>	PDI-142RAB-20-30.4-191112	15-Nov-19 08:54	WR-2 D-3	
1904021-05	<input type="checkbox"/>	PDI-144RAB-00-10-191113	15-Nov-19 08:54	WR-2 D-3	
1904021-06	<input type="checkbox"/>	PDI-144RAB-10-20-191113	15-Nov-19 08:54	WR-2 D-3	
1904021-07	<input type="checkbox"/>	PDI-144RAB-20-29-191113	15-Nov-19 08:54	WR-2 D-3	

5X Spike, 1g wet weight HC 12-20-19

WO Comments: Pest - 1g extraction (dry weight). DDX, Aldrin, 5-Chlordane, Dieldrin, Lindane
Dioxin - 10g (dry weight)
PCB - 5g extraction (dry weight)

Pre-Prep Check Out: NA
Pre-Prep Check In: NA

Prep Check Out: TL 12/27/19
Prep Check In: TL 12/27/19

Prep Reconciled Initials/Date: TL 12/27/19
Spike Reconciled Initials/Date: AO 12/27/19
VialBoxID: 20/20

PREPARATION BENCH SHEET

Matrix: Solid

B9L0270

Chemist: TL

Method: 1699 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 27-Dec-19 06:22

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	BUS - ABSG CHEM/ DATE	BUS - AA Chemist CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	B9L0270-BLK1	NA	(1.00)	TL00 12/27/19	UA	NA	BUS 01/07/20	BUS 01/07/20	BUS 01/07/20	BUS LW 01/07/20
<input type="checkbox"/>	B9L0270-BS1	NA	(1.00)	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1904016-06RE2	(1.00)	1.19	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1904021-01RE1 (A)	(1.00)	1.16	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1904021-04RE2 ↓	(1.00)	1.15	↓	↓	↓	↓	↓	↓	↓

(A) Samples have color after final volume BUS 01/07/20

IS Name PCDD/F PCB PAH	NS Name PCDD/F PCB PAH	CRS Name PCDD/F PCB PAH	RS Name PCDD/F PCB PAH	Cycle Time Start Date/Time Stop Date/Time	APP: SEFUN SOX SDS SOLV: 70:30 Hex/EtoAC Other: NA Final Volume(s): 4g BUS 01/07/20 20ul 100ul	Check Out: Chemist/Date: TL 12/27/19 Check In: Chemist/Date: TL 12/27/19 Balance ID: HRMS-8
1699 18D1602 50ul	19I 3003 50ul	18D1603 50ul	18D1603, 50ul	12/27/19 14:00 12/28/19 08:10		

Comments:

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

Batch: B9L0270

Matrix: Solid

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1904016-06RE2	1.19 ✓	83.87096	0.9981	100	27-Dec-19 06:22	TL			Soil	1699 Full List
1904021-01RE1	1.16 ✓	86.81876	1.0071	100	27-Dec-19 06:22	TL			Soil	1699 Full List
1904021-04RE2	1.15 ✓	88.04348	1.0125	100	27-Dec-19 06:22	TL			Soil	1699 Full List
B9L0270-BLK1	1 /	NA	NA	100	27-Dec-19 06:22	TL				QC
B9L0270-BS1	1 /	NA	NA	100	27-Dec-19 06:22	TL	19I3003 ✓	50 ✓		QC

All bolded data on report verified against written benchsheet by (initial/date) BUB 07/01/20

SAMPLE DATA – EPA METHOD 1613

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191204D2\191204D2-4.qld
 Last Altered: Thursday, December 19, 2019 08:56:48 Pacific Standard Time
 Printed: Thursday, December 19, 2019 08:57:23 Pacific Standard Time

EL 12/19/19

CT 12/20/19

Method: U:\VG7.pro\MethDB\1613VG7-12-4-19.mdb 06 Dec 2019 10:27:59
 Calibration: 06 Dec 2019 12:19:23

Name: 191204D2_4, Date: 5-DEC-2019, Time: 09:57:48, ID: B9K0169-BLK1 Method Blank,
 Description: B9K0169-BLK1 Method Blank 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

#	Name	Area	IS Area	Wt./Vol.	RRF	RA	Y/N	Pred...	RRT	Pred.RT	RT	Conc.	%Rec	EMPC	DL
1	1 2,3,7,8-TCDD	8.91e4	10.0000	0.905	1.001					26.11					0.224
2	2 1,2,3,7,8-PeCDD	8.10e4	10.0000	0.903	1.001					30.62					0.235
3	3 1,2,3,4,7,8-HxCDD	5.93e4	10.0000	1.101	1.000					33.90					0.332
4	4 1,2,3,6,7,8-HxCDD	6.43e4	10.0000	0.939	1.000					34.00					0.356
5	5 1,2,3,7,8,9-HxCDD	6.57e4	10.0000	0.961	1.001					34.33					0.378
6	6 1,2,3,4,6,7,8-HpCDD	5.40e4	10.0000	0.979	1.000					37.77					0.336
7	7 OCDD	1.06e5	10.0000	0.959	1.000					41.02					0.346
8	8 2,3,7,8-TCDF	1.30e5	10.0000	0.950	1.001					25.31					0.209
9	9 1,2,3,7,8-PeCDF	1.25e5	10.0000	0.960	1.001					29.45					0.183
10	10 2,3,4,7,8-PeCDF	1.22e5	10.0000	1.015	1.001					30.35					0.165
11	11 1,2,3,4,7,8-HxCDF	8.15e4	10.0000	1.177	1.000					33.00					0.183
12	12 1,2,3,6,7,8-HxCDF	8.68e4	10.0000	1.069	1.000					33.14					0.199
13	13 2,3,4,6,7,8-HxCDF	7.68e4	10.0000	1.114	1.001					33.76					0.216
14	14 1,2,3,7,8,9-HxCDF	7.01e4	10.0000	1.062	1.000					34.66					0.294
15	15 1,2,3,4,6,7,8-HpCDF	5.95e4	10.0000	1.128	1.001					36.53					0.317
16	16 1,2,3,4,7,8,9-HpCDF	4.86e4	10.0000	1.280	1.000					38.30					0.296
17	17 OCDF	1.31e5	10.0000	0.947	1.000					41.24					0.304
18	18 13C-2,3,7,8-TCDD	8.91e4	1.02e5	10.0000	1.095	0.771	NO	1.021	1.022	26.06	26.08	160.12	80.1		0.596
19	19 13C-1,2,3,7,8-PeCDD	8.10e4	1.02e5	10.0000	0.881	0.627	NO	1.187	1.199	30.29	30.60	180.95	90.5		0.529
20	20 13C-1,2,3,4,7,8-Hx...	5.93e4	1.09e5	10.0000	0.642	1.321	NO	1.014	1.014	33.88	33.89	169.48	84.7		0.797
21	21 13C-1,2,3,6,7,8-Hx...	6.43e4	1.09e5	10.0000	0.856	1.260	NO	1.017	1.017	34.00	34.00	138.06	69.0		0.598
22	22 13C-1,2,3,7,8,9-Hx...	6.57e4	1.09e5	10.0000	0.807	1.270	NO	1.026	1.026	34.30	34.29	149.48	74.7		0.635
23	23 13C-1,2,3,4,6,7,8-H...	5.40e4	1.09e5	10.0000	0.654	1.077	NO	1.126	1.130	37.64	37.76	151.68	75.8		1.10
24	24 13C-OCDD	1.06e5	1.09e5	10.0000	0.580	0.904	NO	1.226	1.228	40.98	41.02	334.77	83.7		0.739
25	25 13C-2,3,7,8-TCDF	1.30e5	1.75e5	10.0000	1.035	0.787	NO	0.992	0.991	25.31	25.29	144.29	72.1		0.488
26	26 13C-1,2,3,7,8-PeCDF	1.25e5	1.75e5	10.0000	0.854	1.623	NO	1.154	1.153	29.45	29.43	168.17	84.1		0.691
27	27 13C-2,3,4,7,8-PeCDF	1.22e5	1.75e5	10.0000	0.847	1.577	NO	1.189	1.188	30.35	30.32	165.02	82.5		0.696
28	28 13C-1,2,3,4,7,8-Hx...	8.15e4	1.09e5	10.0000	0.832	0.520	NO	0.987	0.988	32.99	33.00	179.80	89.9		1.24
29	29 13C-1,2,3,6,7,8-Hx...	8.68e4	1.09e5	10.0000	1.034	0.518	NO	0.991	0.991	33.11	33.13	153.98	77.0		1.00
30	30 13C-2,3,4,6,7,8-Hx...	7.68e4	1.09e5	10.0000	0.953	0.538	NO	1.009	1.009	33.73	33.72	147.81	73.9		1.09
31	31 13C-1,2,3,7,8,9-Hx...	7.01e4	1.09e5	10.0000	0.828	0.521	NO	1.039	1.037	34.71	34.66	155.42	77.7		1.25

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191204D2\191204D2-4.qld

Last Altered: Thursday, December 19, 2019 08:56:48 Pacific Standard Time

Printed: Thursday, December 19, 2019 08:57:23 Pacific Standard Time

Name: 191204D2_4, Date: 5-DEC-2019, Time: 09:57:48, ID: B9K0169-BLK1 Method Blank,
 Description: B9K0169-BLK1 Method Blank 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

#	Name	Area	IS Area	Wt./Vol.	RRF	RA	Y/N	Pred...	RRT	Pred.RT	RT	Conc.	%Rec	EMPC	DL
32	32 13C-1,2,3,4,6,7,8-H...	5.95e4	1.09e5	10.0000	0.757	0.422	NO	1.093	1.092	36.52	36.50	144.27	72.1		0.911
33	33 13C-1,2,3,4,7,8,9-H...	4.86e4	1.09e5	10.0000	0.581	0.428	NO	1.143	1.146	38.20	38.30	153.37	76.7		1.19
34	34 13C-OCDF	1.31e5	1.09e5	10.0000	0.689	0.857	NO	1.233	1.234	41.21	41.24	349.87	87.5		0.631
35	35 37Cl-2,3,7,8-TCDD	3.83e4	1.02e5	10.0000	1.198			1.022	1.023	26.08	26.10	63.011	78.8		0.280
36	36 13C-1,2,3,4-TCDD	1.02e5	1.02e5	10.0000	1.000	0.811	NO	1.000	1.000	25.50	25.52	200.00	100.0		0.653
37	37 13C-1,2,3,4-TCDF	1.75e5	1.75e5	10.0000	1.000	0.809	NO	1.000	1.000	24.06	24.07	200.00	100.0		0.505
38	38 13C-1,2,3,4,6,9-Hx...	1.09e5	1.09e5	10.0000	1.000	0.517	NO	1.000	1.000	33.42	33.42	200.00	100.0		1.03
39	39 Total Tetra-Dioxins		8.91e4	10.0000	0.901			0.000		25.50					0.120
40	40 Total Penta-Dioxins		8.10e4	10.0000	0.872			0.000		30.00					0.0957
41	41 Total Hexa-Dioxins		0.00e0	10.0000	0.976			0.000		33.80					0.178
42	42 Total Hepta-Dioxins		5.40e4	10.0000	0.989			0.000		37.75					0.164
43	43 Total Tetra-Furans		1.30e5	10.0000	0.943			0.000		24.00					0.0897
44	44 1st Func. Penta-Fur...		0.00e0	10.0000	0.940			0.000		27.63					0.0379
45	45 Total Penta-Furans		0.00e0	10.0000	0.940			0.000		30.00					0.0821
46	46 Total Hexa-Furans		0.00e0	10.0000	1.078			0.000		33.00					0.119
47	47 Total Hepta-Furans		0.00e0	10.0000	1.135			0.000		37.75					0.164

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191204D2\191204D2-4.qld

Last Altered: Thursday, December 19, 2019 08:56:48 Pacific Standard Time

Printed: Thursday, December 19, 2019 08:57:23 Pacific Standard Time

Method: U:\VG7.pro\MethDB\1613VG7-12-4-19.mdb 06 Dec 2019 10:27:59

Calibration: 06 Dec 2019 12:19:23

Name: 191204D2_4, Date: 5-DEC-2019, Time: 09:57:48, ID: B9K0169-BLK1 Method Blank,

Description: B9K0169-BLK1 Method Blank 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

Tetra-Dioxins

#	Name	NY	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1									

Penta-Dioxins

#	Name	NY	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1									

Hexa-Dioxins

#	Name	NY	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1									

Hepta-Dioxins

#	Name	NY	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1									

Tetra-Furans

#	Name	NY	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1									

Penta-Furans function 1

#	Name	NY	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1									

Penta-Furans

#	Name	NY	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1									

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191204D2\191204D2-4.qld

Last Altered: Thursday, December 19, 2019 08:56:48 Pacific Standard Time

Printed: Thursday, December 19, 2019 08:57:23 Pacific Standard Time

Name: 191204D2_4, Date: 5-DEC-2019, Time: 09:57:48, ID: B9K0169-BLK1 Method Blank,
Description: B9K0169-BLK1 Method Blank 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

Hexa-Furans

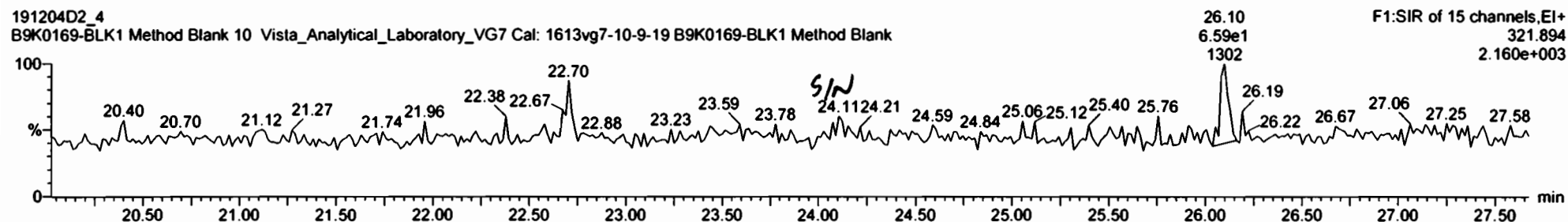
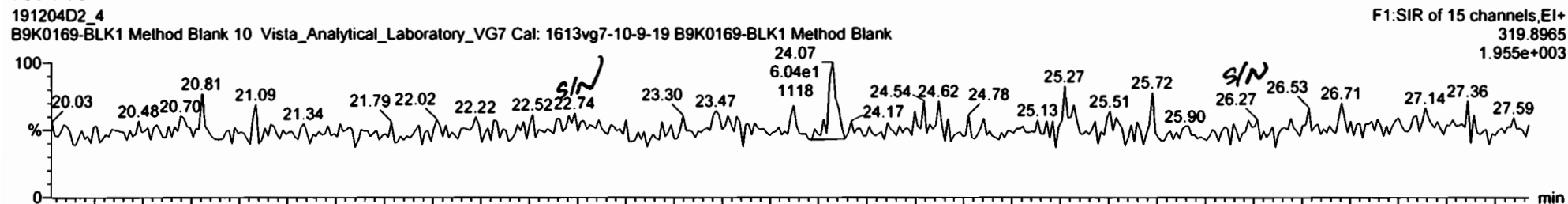
#	Name	N/Y	RT	Area	IS Area	Response Primary Flags	Conc.	EMPC
1								

Hepta-Furans

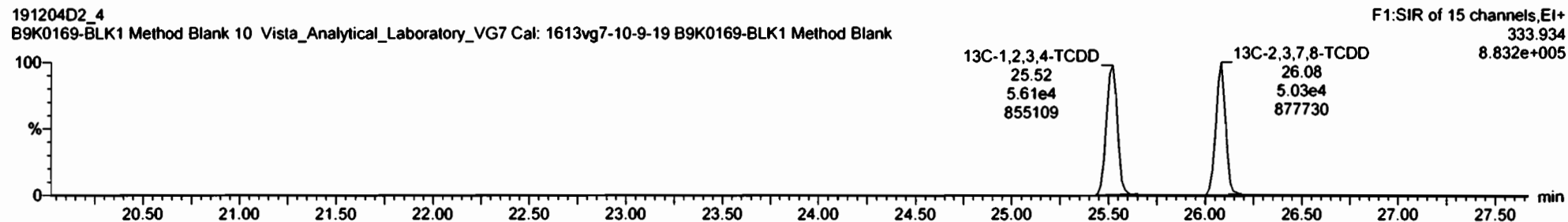
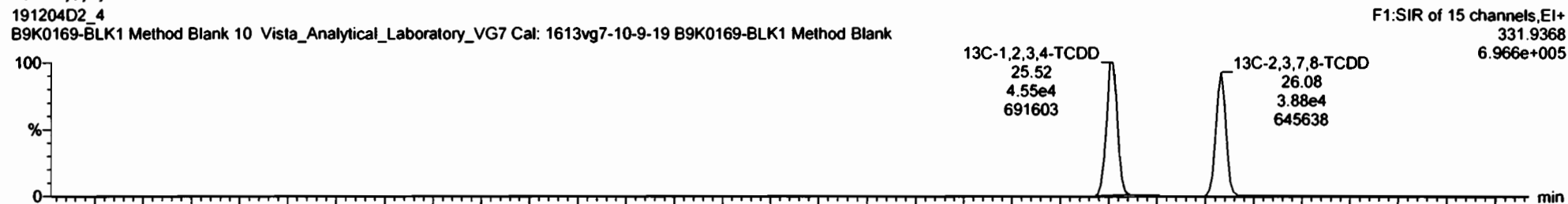
#	Name	N/Y	RT	Area	IS Area	Response Primary Flags	Conc.	EMPC
1								

Name: 191204D2_4, Date: 5-DEC-2019, Time: 09:57:48, ID: B9K0169-BLK1 Method Blank,
 Description: B9K0169-BLK1 Method Blank 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

Total Tetra-Dioxins



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

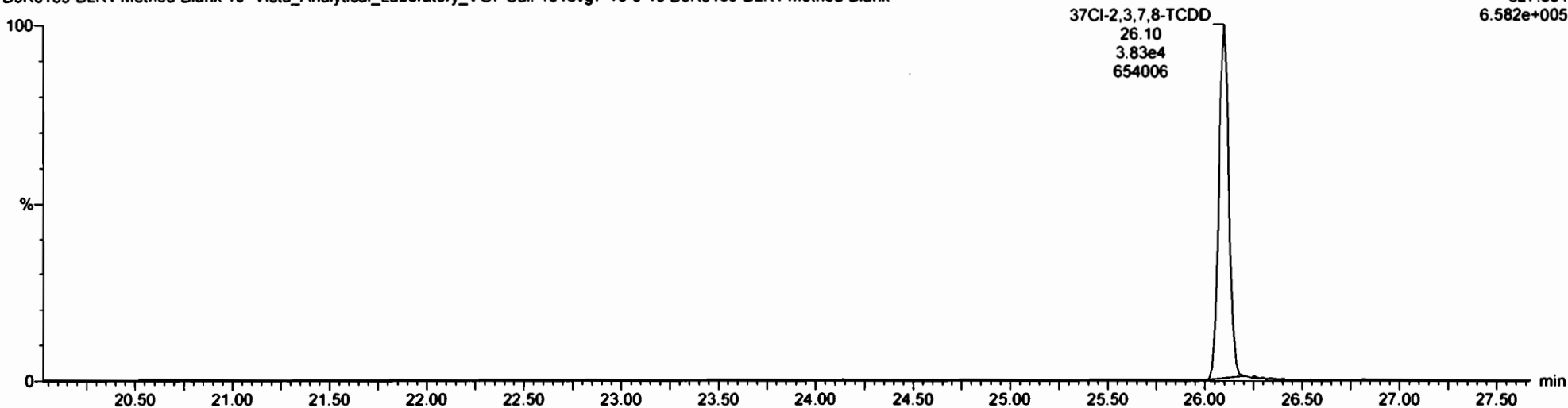


Name: 191204D2_4, Date: 5-DEC-2019, Time: 09:57:48, ID: B9K0169-BLK1 Method Blank,
Description: B9K0169-BLK1 Method Blank 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

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

191204D2_4
B9K0169-BLK1 Method Blank 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 B9K0169-BLK1 Method Blank

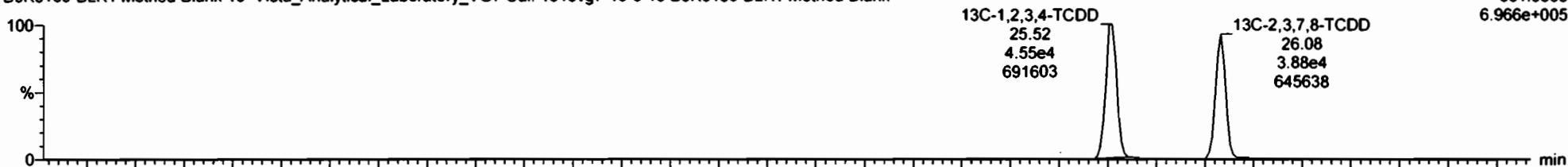
F1:SIR of 15 channels,EI+
327.884
6.582e+005



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

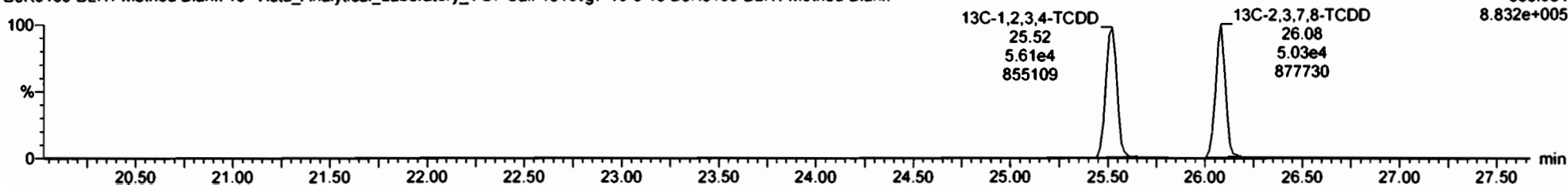
191204D2_4
B9K0169-BLK1 Method Blank 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 B9K0169-BLK1 Method Blank

F1:SIR of 15 channels,EI+
331.9368
6.966e+005



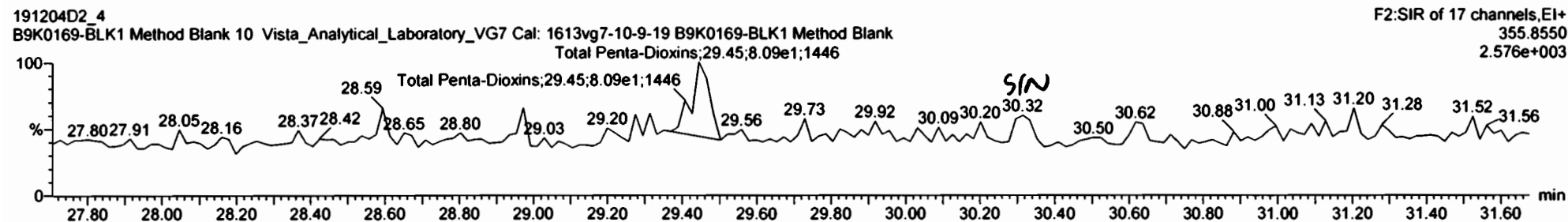
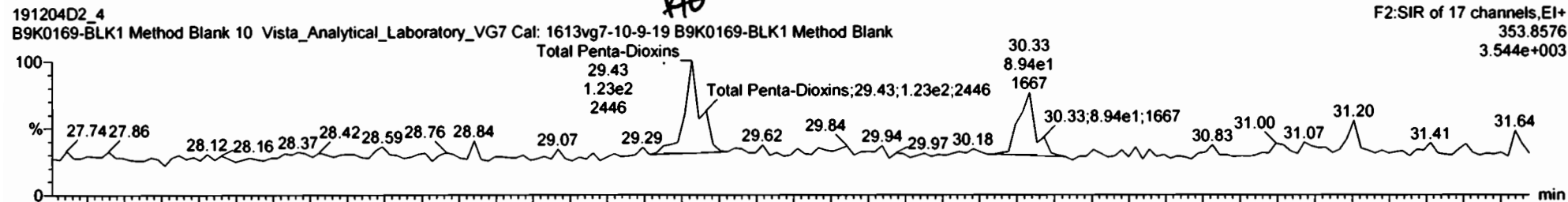
191204D2_4
B9K0169-BLK1 Method Blank 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 B9K0169-BLK1 Method Blank

F1:SIR of 15 channels,EI+
333.934
8.832e+005

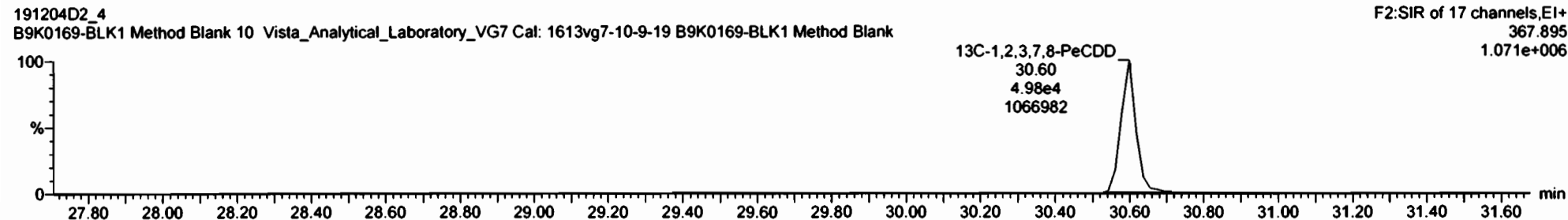
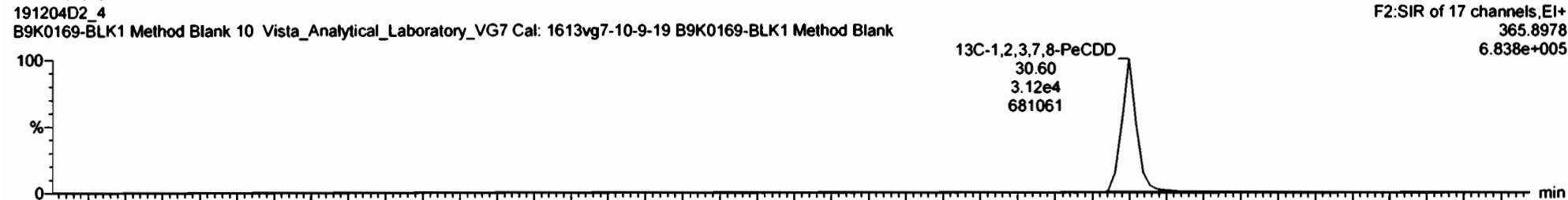


Name: 191204D2_4, Date: 5-DEC-2019, Time: 09:57:48, ID: B9K0169-BLK1 Method Blank,
Description: B9K0169-BLK1 Method Blank 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

Total Penta-Dioxins

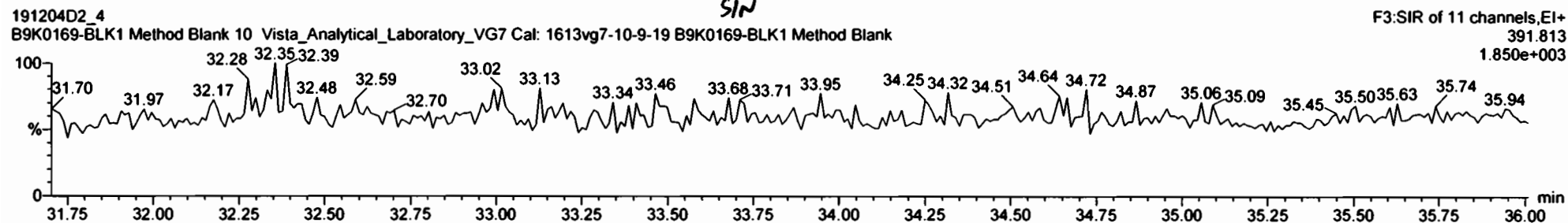
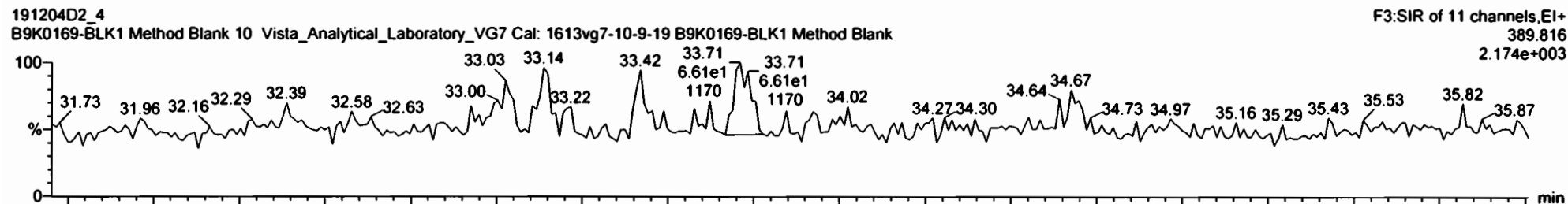


13C-1,2,3,7,8-PeCDD

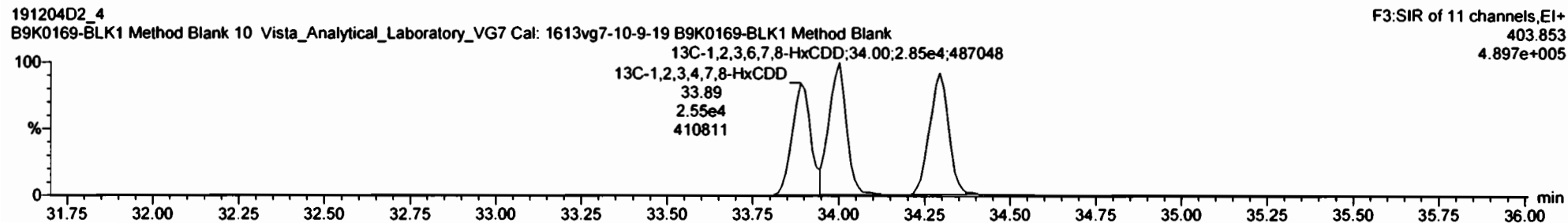
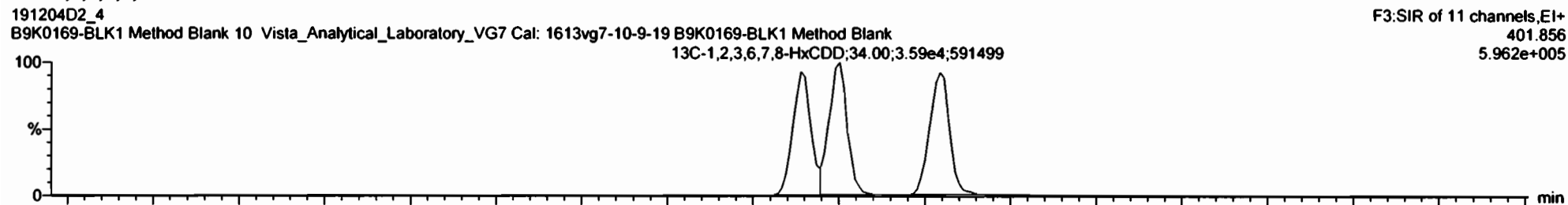


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Description: B9K0169-BLK1 Method Blank 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

Total Hexa-Dioxins



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



Vista Analytical Laboratory

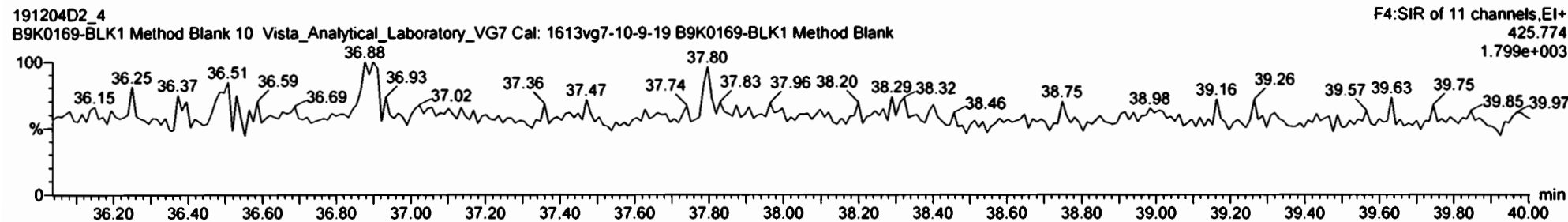
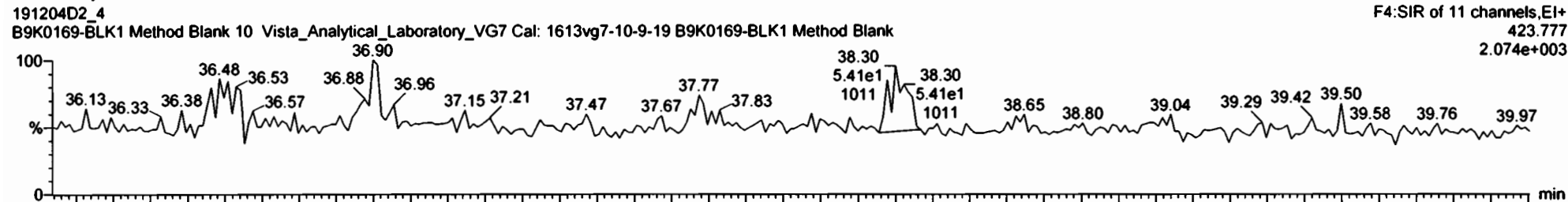
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Last Altered: Friday, December 06, 2019 10:31:48 Pacific Standard Time

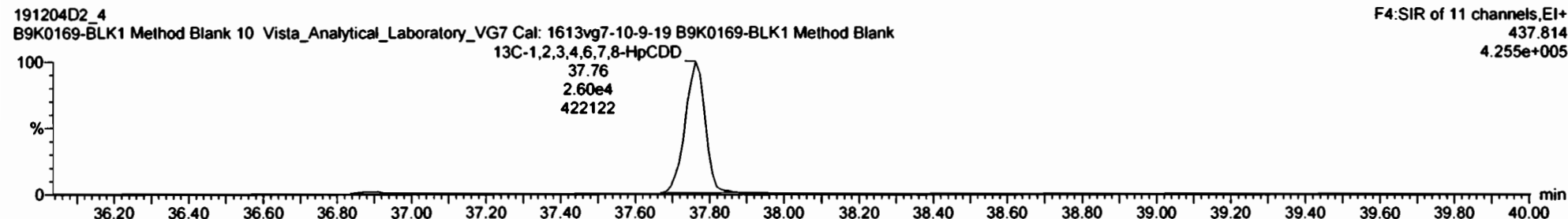
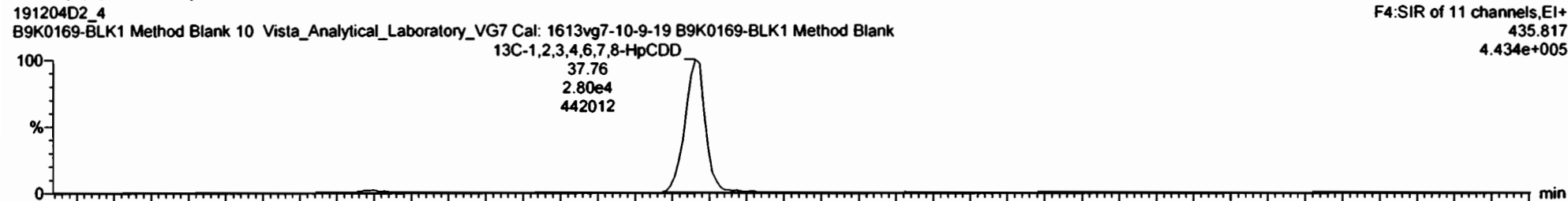
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Name: 191204D2_4, Date: 5-DEC-2019, Time: 09:57:48, ID: B9K0169-BLK1 Method Blank,
Description: B9K0169-BLK1 Method Blank 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

Total Hepta-Dioxins



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

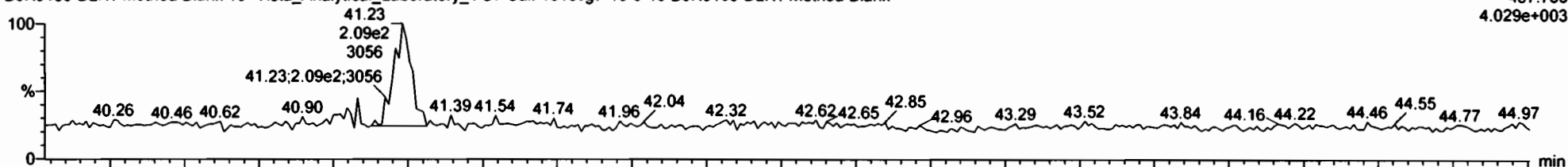


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Description: B9K0169-BLK1 Method Blank 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

OCDD

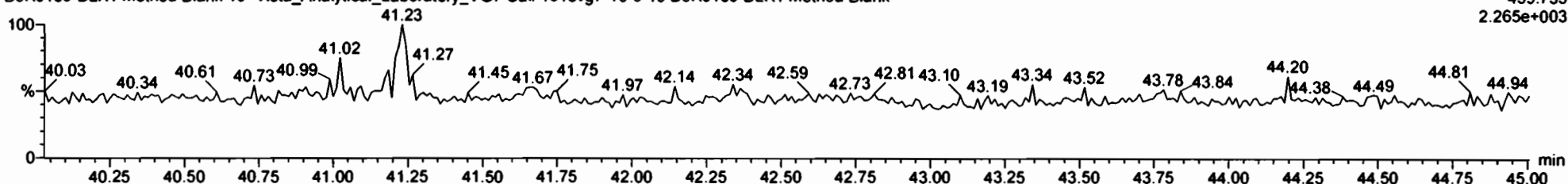
191204D2_4
B9K0169-BLK1 Method Blank 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 B9K0169-BLK1 Method Blank

F5:SIR of 11 channels,EI+
457.738
4.029e+003



191204D2_4
B9K0169-BLK1 Method Blank 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 B9K0169-BLK1 Method Blank

F5:SIR of 11 channels,EI+
459.735
2.265e+003



13C-OCDD

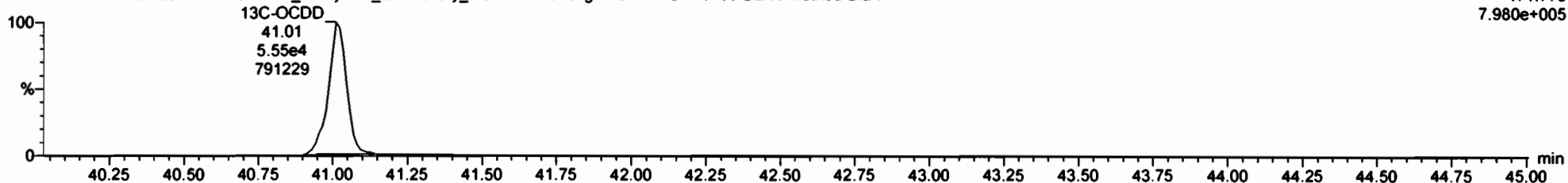
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B9K0169-BLK1 Method Blank 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 B9K0169-BLK1 Method Blank

F5:SIR of 11 channels,EI+
469.778
7.073e+005



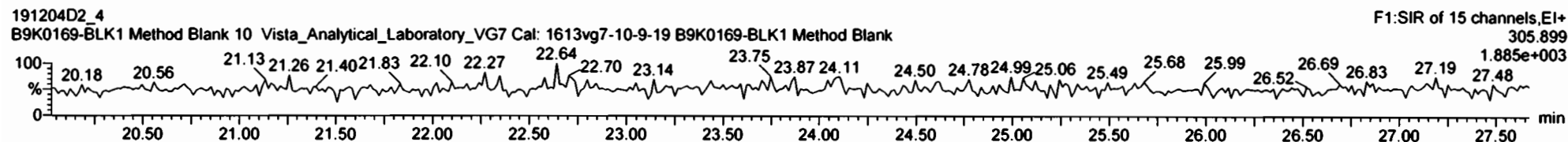
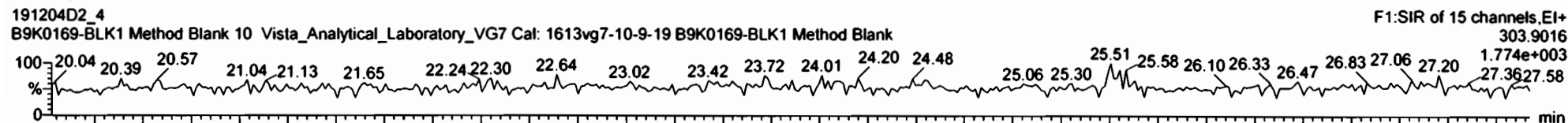
191204D2_4
B9K0169-BLK1 Method Blank 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 B9K0169-BLK1 Method Blank

F5:SIR of 11 channels,EI+
471.775
7.980e+005

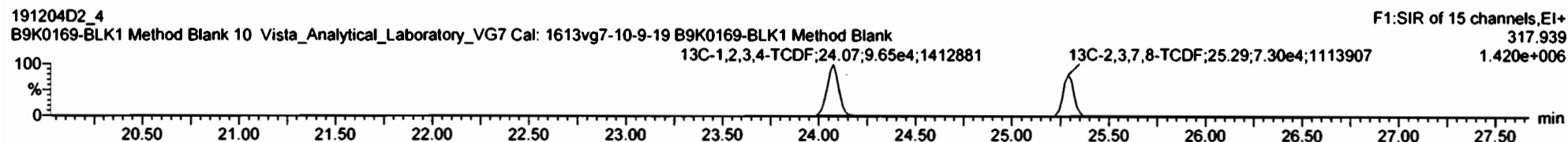
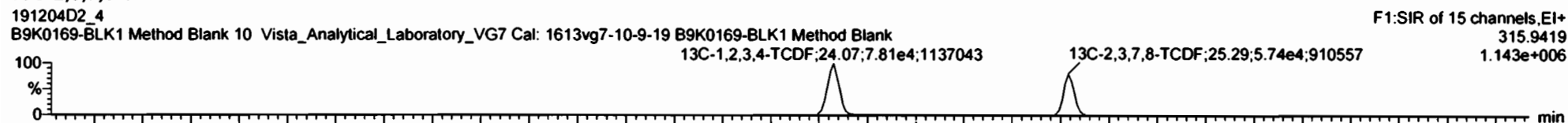


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Description: B9K0169-BLK1 Method Blank 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

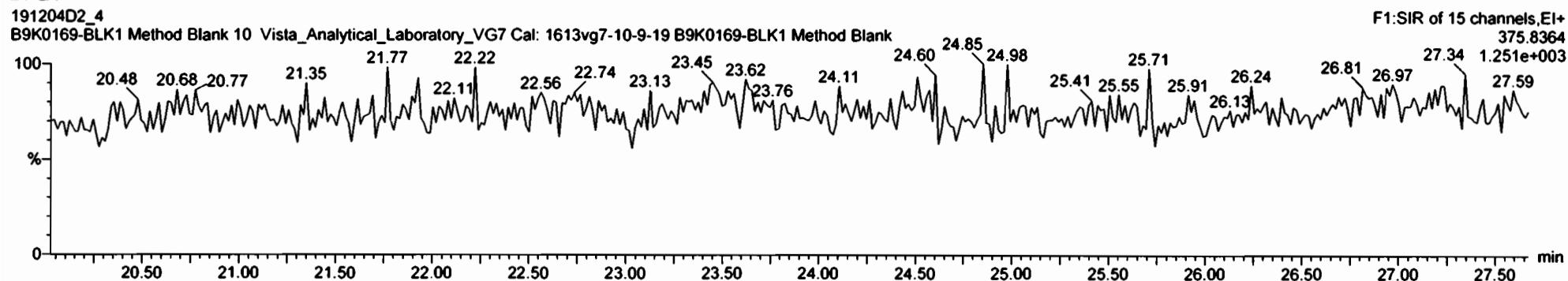
Total Tetra-Furans



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



DPE1



Vista Analytical Laboratory

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Last Altered: Friday, December 06, 2019 10:31:48 Pacific Standard Time

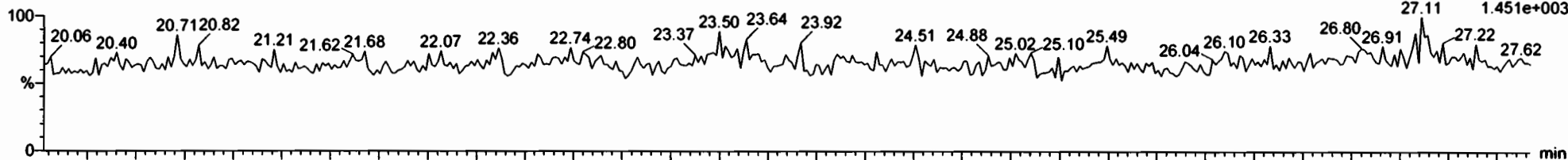
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Description: B9K0169-BLK1 Method Blank 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

1st Func. Penta-Furans

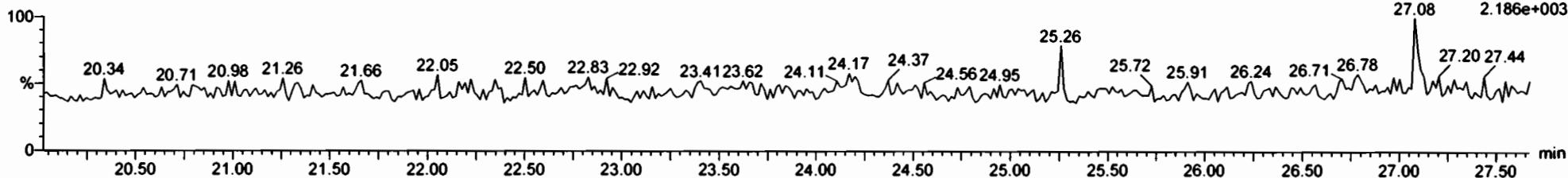
191204D2_4
B9K0169-BLK1 Method Blank 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 B9K0169-BLK1 Method Blank

SN
F1:SIR of 15 channels,EI+
339.860
1.451e+003



191204D2_4
B9K0169-BLK1 Method Blank 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 B9K0169-BLK1 Method Blank

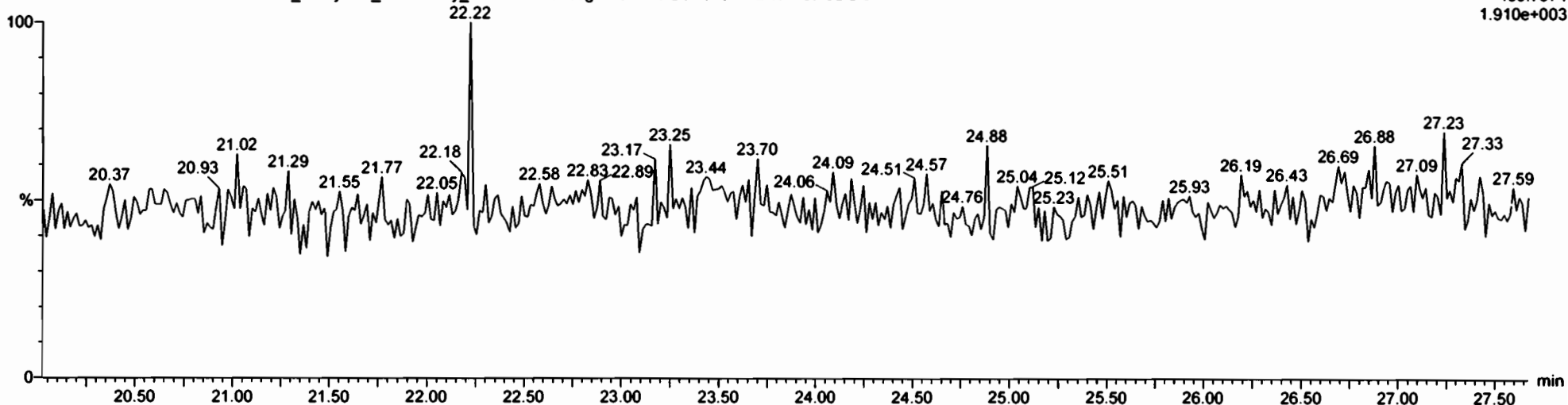
F1:SIR of 15 channels,EI+
341.857
2.186e+003



DPE6

191204D2_4
B9K0169-BLK1 Method Blank 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 B9K0169-BLK1 Method Blank

F1:SIR of 15 channels,EI+
409.7974
1.910e+003



Vista Analytical Laboratory

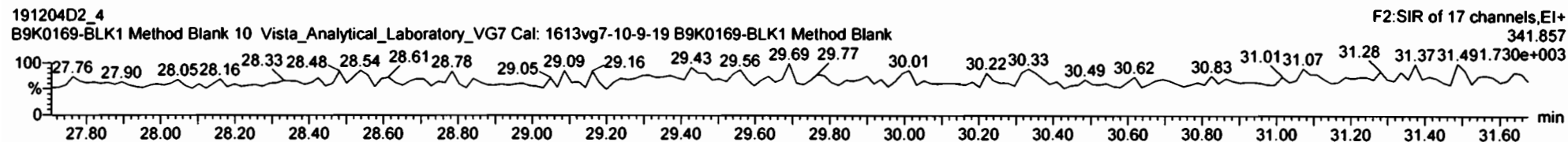
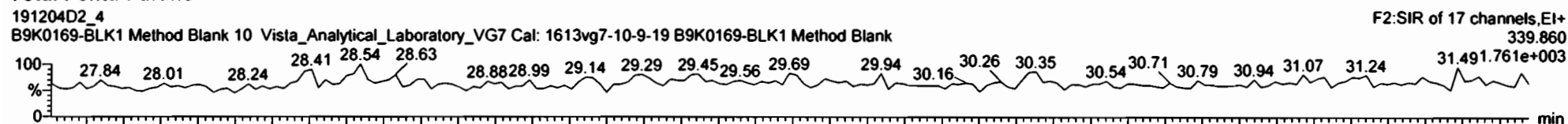
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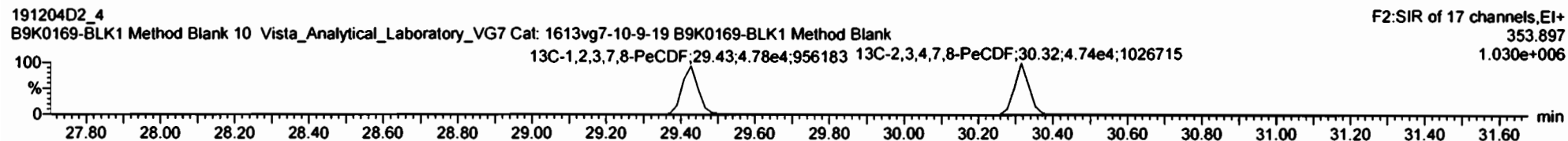
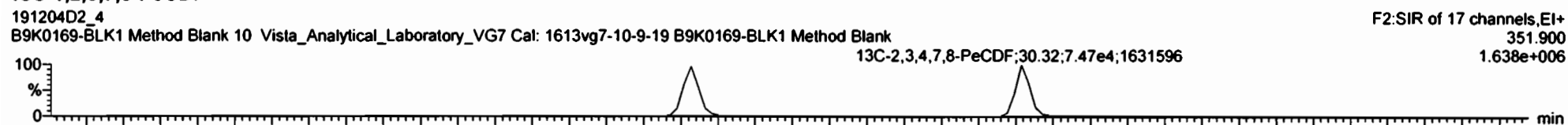
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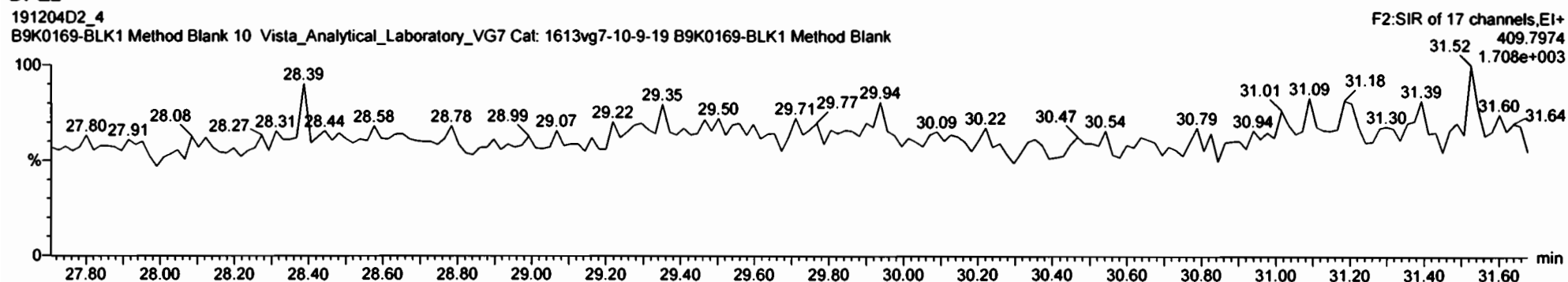
Total Penta-Furans



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



DPE2



Vista Analytical Laboratory

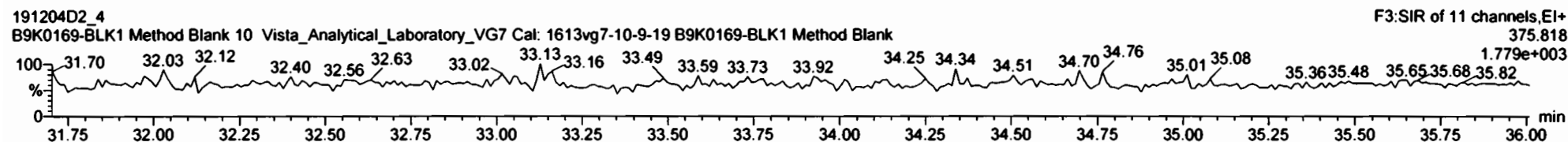
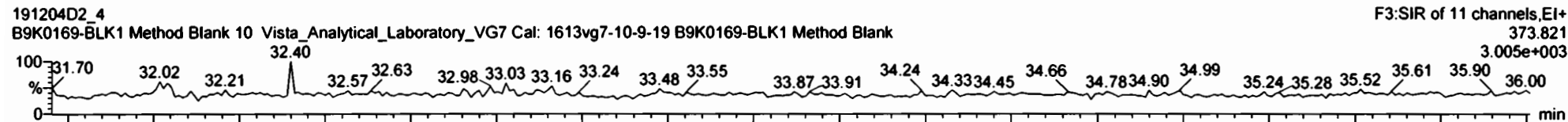
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Last Altered: Friday, December 06, 2019 10:31:48 Pacific Standard Time

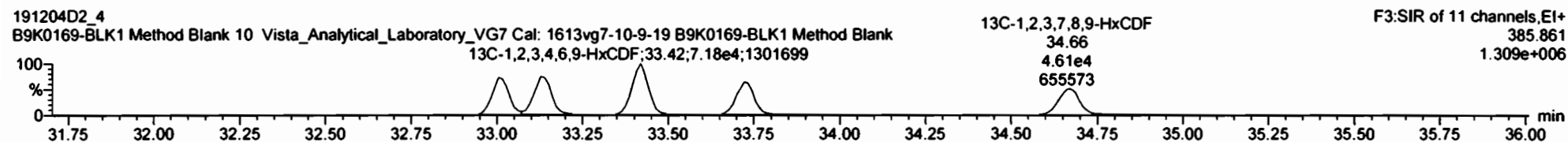
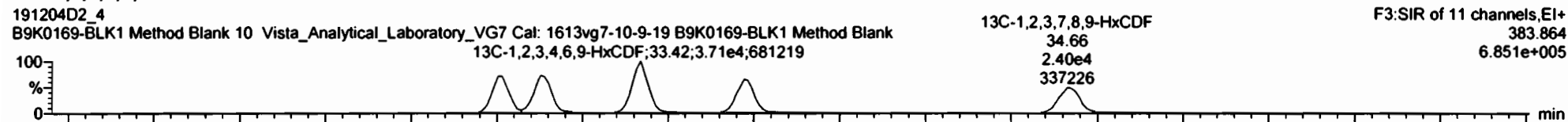
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Name: 191204D2_4, Date: 5-DEC-2019, Time: 09:57:48, ID: B9K0169-BLK1 Method Blank, Description: B9K0169-BLK1 Method Blank 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

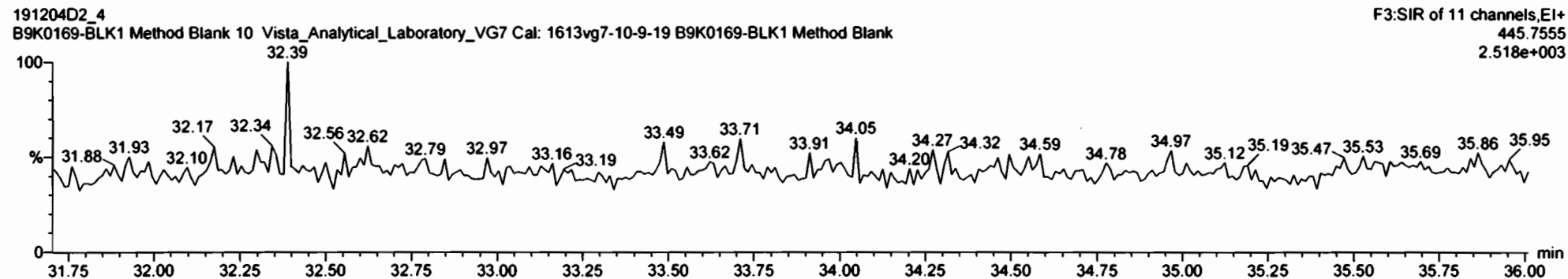
Total Hexa-Furans



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



DPE3



Vista Analytical Laboratory

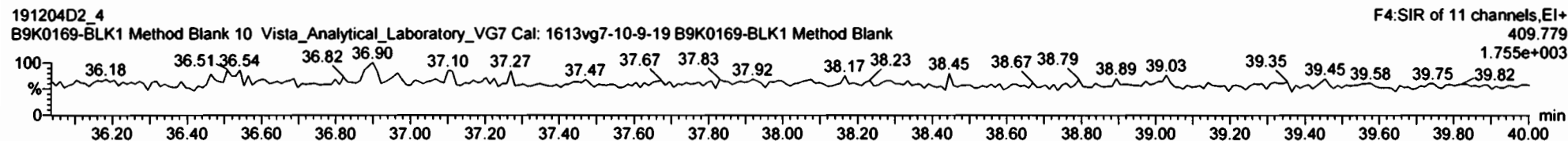
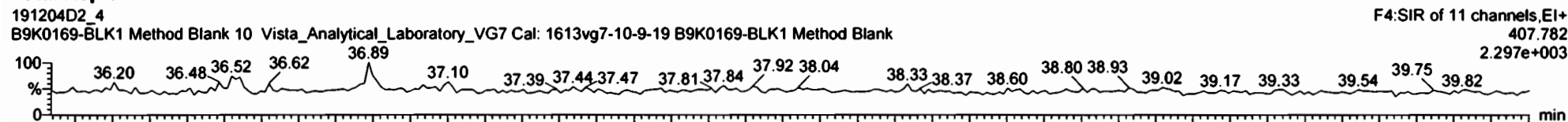
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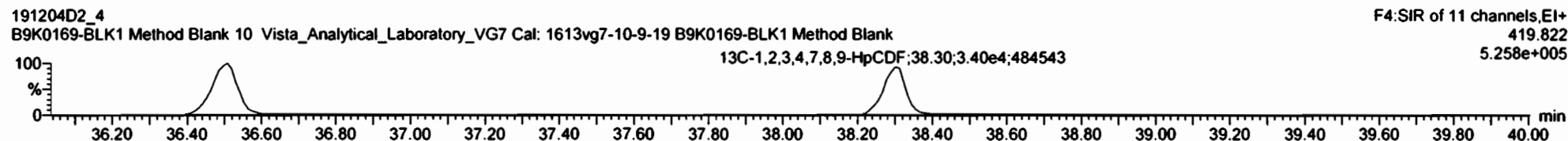
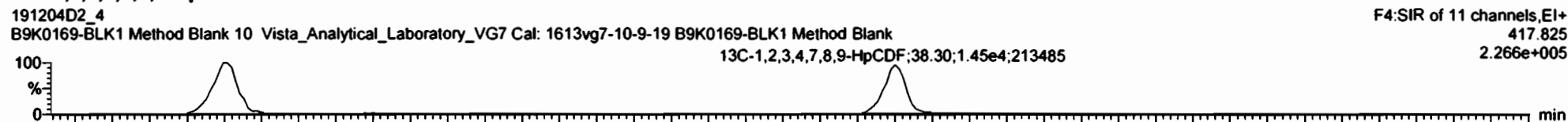
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Description: B9K0169-BLK1 Method Blank 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

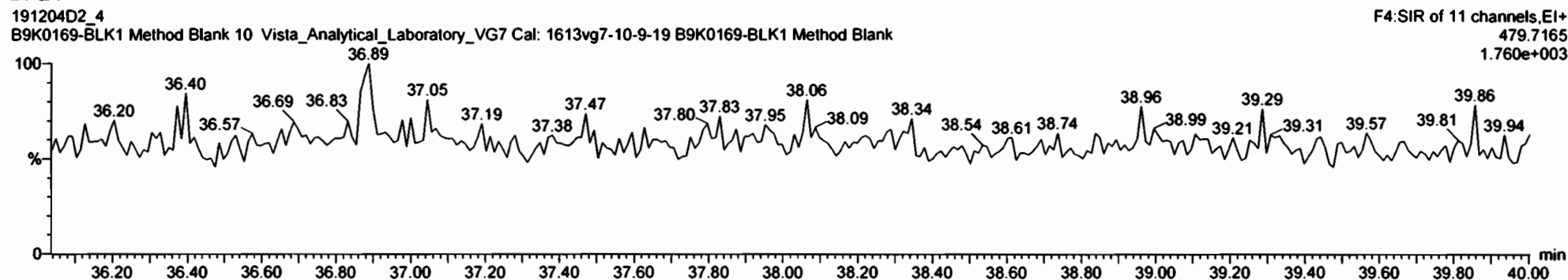
Total Hepta-Furans



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



DPE4



Vista Analytical Laboratory

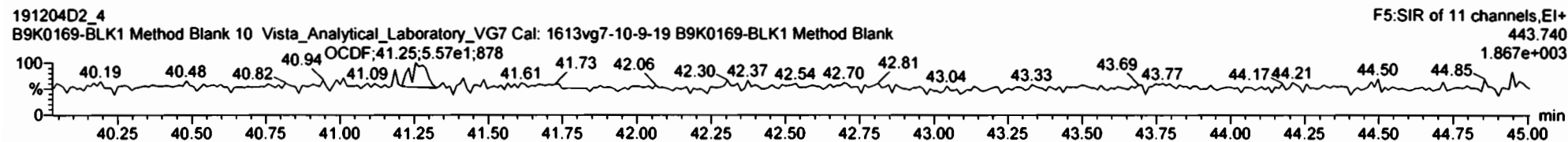
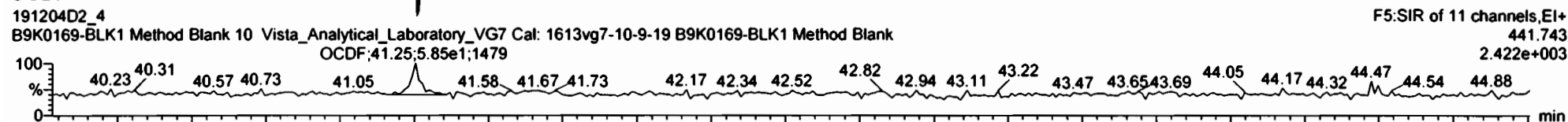
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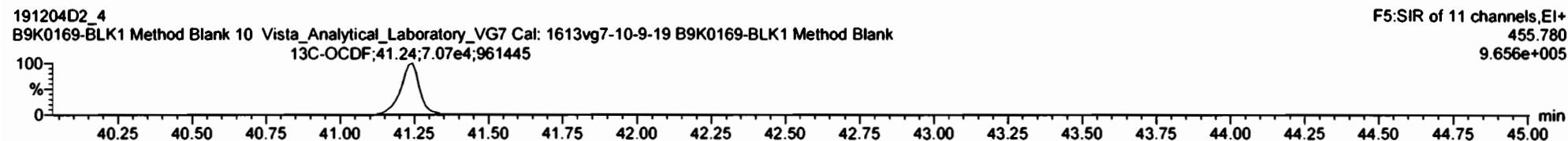
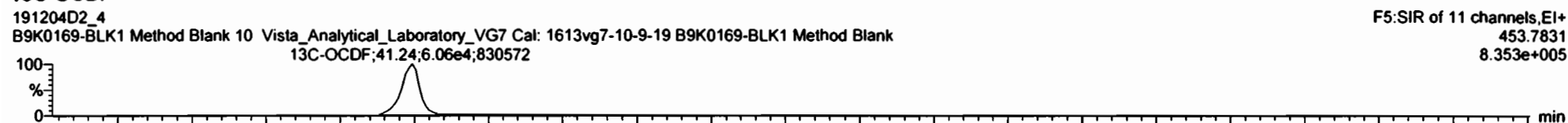
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Name: 191204D2_4, Date: 5-DEC-2019, Time: 09:57:48, ID: B9K0169-BLK1 Method Blank,
Description: B9K0169-BLK1 Method Blank 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

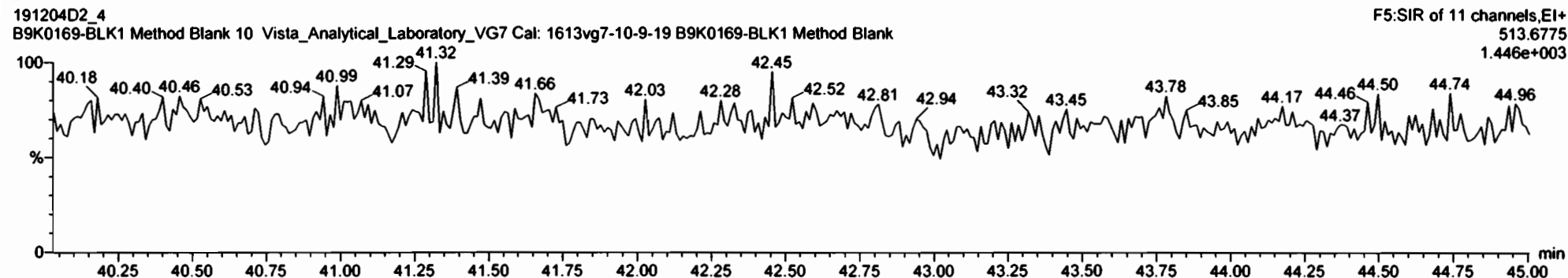
OCDF



13C-OCDF



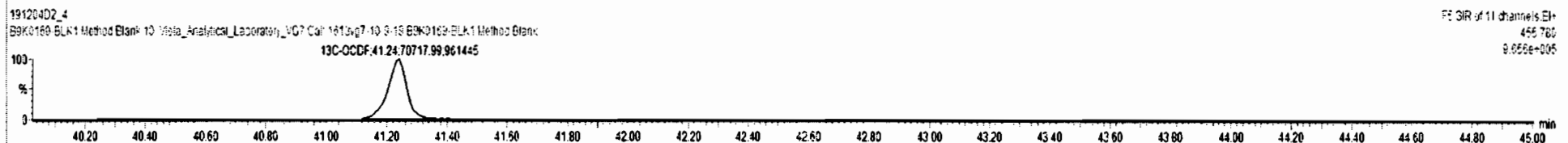
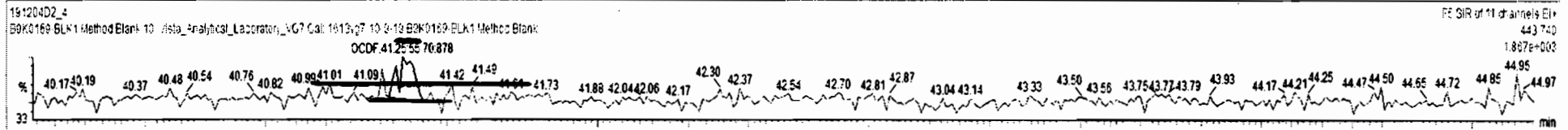
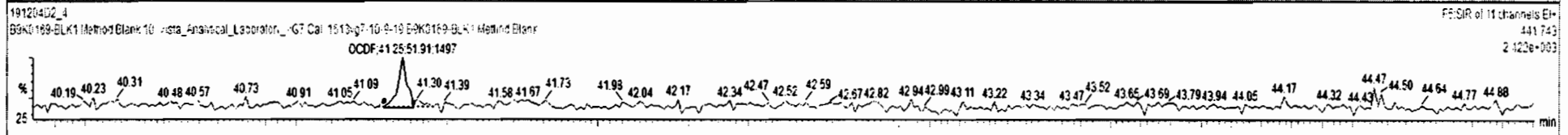
DPE5





#	Name	Resp	IS Resp	IS#	RA	n/y	RSP	w/w%	Pred RT	RT	RRT	Pred.RRT	Check RRT	Conc	%Rec	DL	EMPC
16	1,2,3,4,7,8,9-HpCDF	4.96e4	33				1.286	10.060	38.30			1.000	NO				0.296
17	OCDF	1.06e2	1.31e5	34	0.93	NO	0.947	10.000	41.24	41.25	1.000	1.000	NO	0.3460		0.304	0.3460
18	13C-2,3,7,8-TCDD	8.91e4	1.02e5	36	0.77	NO	1.095	10.000	26.06	26.08	1.022	1.021	NO	160.1	80.1		0.596
19	13C-1,2,3,7,8-PeCDD	8.16e4	1.02e5	36	0.63	NO	0.861	10.000	20.29	20.69	1.159	1.167	NO	181.0	90.5		0.529
20	13C-1,2,3,4,7,8-HxCDD	5.92e4	1.09e5	38	1.32	NO	0.642	10.000	33.88	33.89	1.014	1.014	NO	169.5	84.7		0.797
21	13C-1,2,3,6,7,8-HxCDD	6.43e4	1.05e5	38	1.26	NO	0.856	10.000	34.00	34.03	1.017	1.017	NO	138.1	69.0		0.596
22	13C-1,2,3,7,8,9-HxCDD	6.57e4	1.09e5	38	1.27	NO	0.807	10.000	34.30	34.29	1.026	1.026	NO	148.5	74.2		0.635
23	13C-1,2,3,4,6,7,8-HpCDD	5.48e4	1.09e5	38	1.06	NO	0.654	10.000	27.64	27.76	1.130	1.126	NO	151.7	75.8		1.10
24	13C-OCDD	1.06e5	1.09e5	38	0.90	NO	0.580	10.000	40.96	41.02	1.226	1.226	NO	334.8	167.4		0.729
25	13C-2,3,7,8-TCDF	1.36e5	1.75e5	37	0.79	NO	1.025	10.000	25.31	25.29	0.991	0.992	NO	144.3	72.1		0.488
26	13C-1,2,3,7,8-PeCDF	1.25e5	1.75e5	37	1.62	NO	0.854	10.000	29.45	29.43	1.153	1.154	NO	168.2	84.1		0.691
27	13C-2,3,4,7,8-PeCDF	1.22e5	1.75e5	37	1.58	NO	0.847	10.000	30.35	30.32	1.188	1.169	NO	165.0	82.5		0.696
28	13C-1,2,3,4,7,8-HxCDF	8.15e4	1.05e5	38	0.52	NO	0.832	10.000	32.99	33.00	0.968	0.967	NO	179.9	89.9		1.24
29	13C-1,2,3,6,7,8-HxCDF	8.66e4	1.09e5	38	0.52	NO	1.034	10.000	33.11	33.13	0.991	0.991	NO	154.0	77.0		1.00
30	13C-2,3,4,6,7,8-HxCDF	7.68e4	1.09e5	38	0.54	NO	0.953	10.000	33.73	33.72	1.009	1.009	NO	147.8	73.9		1.09

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



Vista Analytical Laboratory

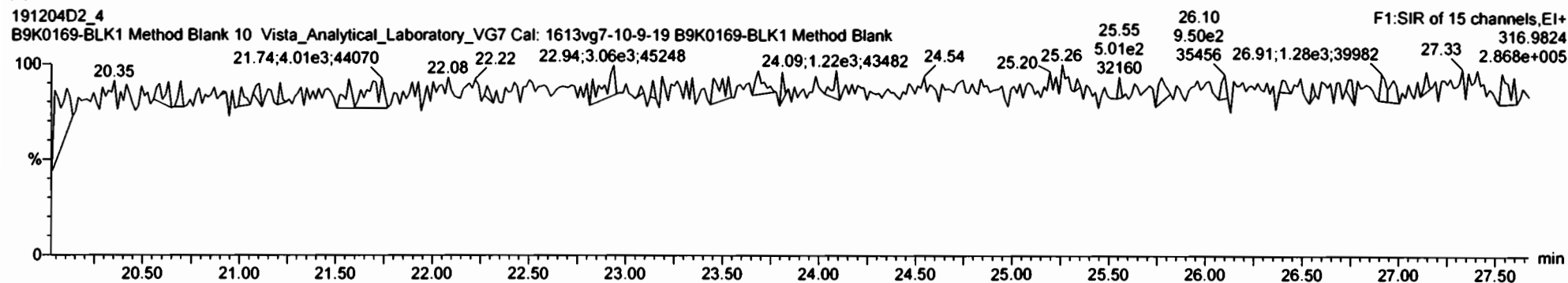
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Last Altered: Friday, December 06, 2019 10:31:48 Pacific Standard Time

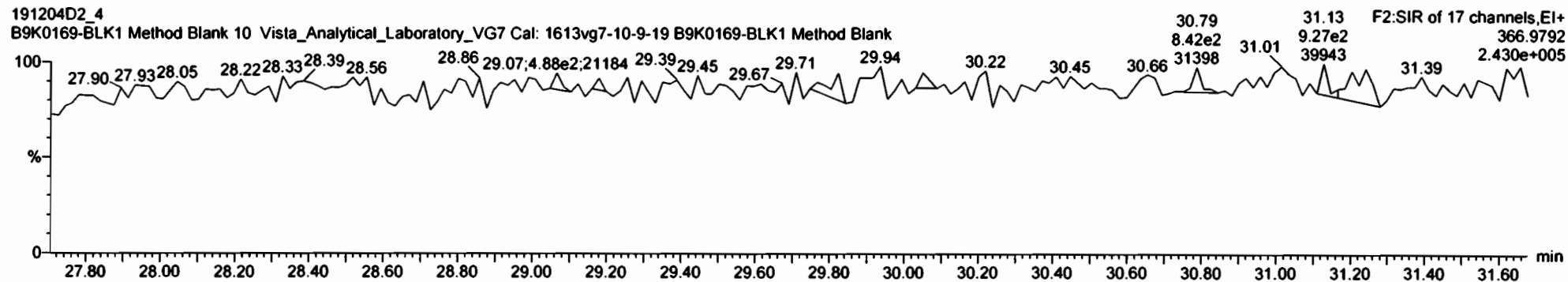
Printed: Friday, December 06, 2019 10:37:02 Pacific Standard Time

Name: 191204D2_4, Date: 5-DEC-2019, Time: 09:57:48, ID: B9K0169-BLK1 Method Blank,
Description: B9K0169-BLK1 Method Blank 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

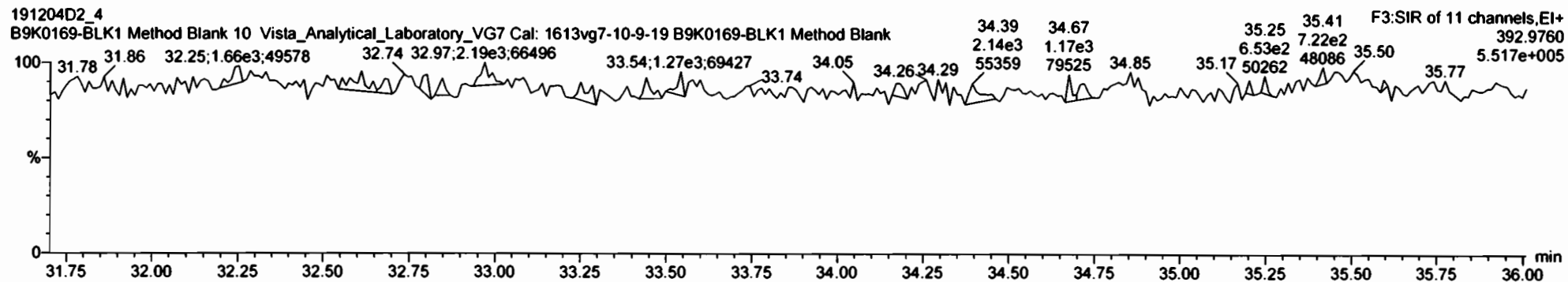
PFK1



PFK2

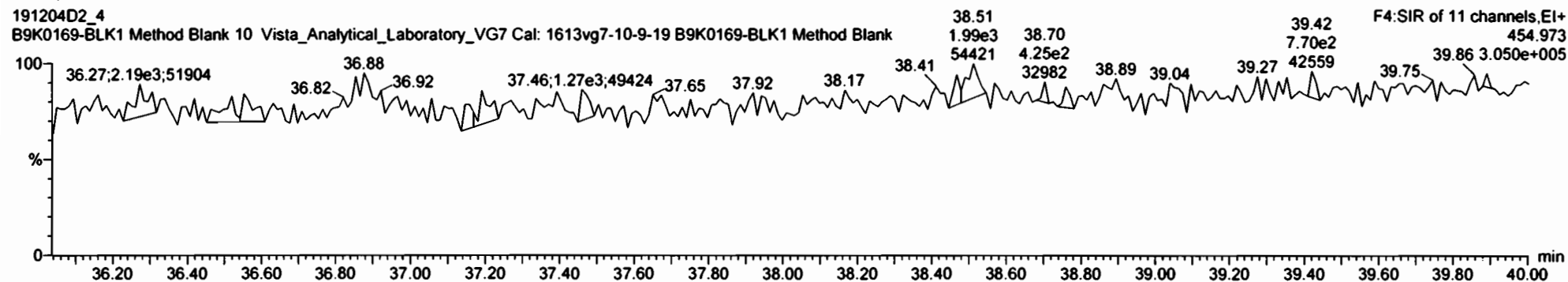


PFK3

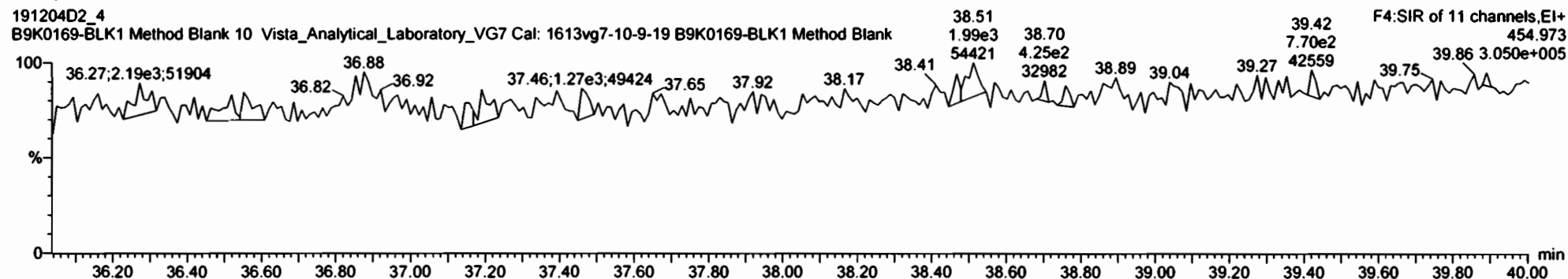


Name: 191204D2_4, Date: 5-DEC-2019, Time: 09:57:48, ID: B9K0169-BLK1 Method Blank,
Description: B9K0169-BLK1 Method Blank 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

PFK4



PFK5



Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191204D2\191204D2-2.qld

Last Altered: Friday, December 06, 2019 13:07:51 Pacific Standard Time

Printed: Friday, December 06, 2019 13:08:45 Pacific Standard Time

EL 12/6/19

CT 12/10/19

Method: U:\VG7.pro\MethDB\1613VG7-12-4-19.mdb 06 Dec 2019 10:27:59

Calibration: 06 Dec 2019 12:16:39

Name: 191204D2_2, Date: 5-DEC-2019, Time: 08:21:55, ID: B9K0169-BS1 OPR 10,

Description: B9K0169-BS1 OPR 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

#	Name	Area	IS Area	WL/Vol.	RRF	RA	Y/N	Pred...	RRT	Pred.RT	RT	Conc.	%Rec	EMPC	DL
1	1 2,3,7,8-TCDD	9.50e3	1.06e5	10.0000	0.905	0.731	NO	1.001	1.001	26.12	26.12	19.732		19.7	0.218
2	2 1,2,3,7,8-PeCDD	4.17e4	9.32e4	10.0000	0.903	0.599	NO	1.001	1.001	30.63	30.63	99.170		99.2	0.308
3	3 1,2,3,4,7,8-HxCDD	3.51e4	6.84e4	10.0000	1.101	1.300	NO	1.000	1.000	33.92	33.92	93.281		93.3	0.451
4	4 1,2,3,6,7,8-HxCDD	3.46e4	7.61e4	10.0000	0.939	1.188	NO	1.000	1.001	34.01	34.03	96.883		96.9	0.532
5	5 1,2,3,7,8,9-HxCDD	3.53e4	7.70e4	10.0000	0.961	1.238	NO	1.001	1.001	34.34	34.32	95.449		95.4	0.506
6	6 1,2,3,4,6,7,8-HpCDD	2.81e4	6.13e4	10.0000	0.979	1.033	NO	1.000	1.000	37.79	37.79	93.751		93.8	0.566
7	7 OCDD	5.61e4	1.23e5	10.0000	0.959	0.890	NO	1.000	1.000	41.03	41.03	190.26		190	0.609
8	8 2,3,7,8-TCDF	1.33e4	1.59e5	10.0000	0.950	0.773	NO	1.001	1.001	25.34	25.33	17.607		17.6	0.175
9	9 1,2,3,7,8-PeCDF	6.66e4	1.46e5	10.0000	0.960	1.582	NO	1.001	1.001	29.45	29.45	95.289		95.3	0.264
10	10 2,3,4,7,8-PeCDF	6.92e4	1.43e5	10.0000	1.015	1.609	NO	1.001	1.001	30.35	30.34	95.104		95.1	0.279
11	11 1,2,3,4,7,8-HxCDF	5.03e4	9.80e4	10.0000	1.177	1.227	NO	1.000	1.001	33.02	33.05	87.292		87.3	0.402
12	12 1,2,3,6,7,8-HxCDF	4.79e4	1.01e5	10.0000	1.069	1.236	NO	1.000	1.001	33.16	33.17	88.621		88.6	0.445
13	13 2,3,4,6,7,8-HxCDF	4.71e4	9.36e4	10.0000	1.114	1.172	NO	1.001	1.001	33.77	33.76	90.487		90.5	0.480
14	14 1,2,3,7,8,9-HxCDF	3.84e4	8.30e4	10.0000	1.062	1.249	NO	1.000	1.000	34.68	34.69	87.182		87.2	0.653
15	15 1,2,3,4,6,7,8-HpCDF	3.47e4	6.96e4	10.0000	1.128	1.020	NO	1.001	1.000	36.56	36.54	88.342		88.3	0.971
16	16 1,2,3,4,7,8,9-HpCDF	3.09e4	5.71e4	10.0000	1.280	1.037	NO	1.000	1.001	38.31	38.33	84.559		84.6	0.814
17	17 OCDF	6.30e4	1.54e5	10.0000	0.947	0.882	NO	1.000	1.000	41.25	41.26	172.96		173	0.519
18	18 13C-2,3,7,8-TCDD	1.06e5	1.04e5	10.0000	1.095	0.755	NO	1.021	1.022	26.07	26.09	185.88	92.9		0.541
19	19 13C-1,2,3,7,8-PeCDD	9.32e4	1.04e5	10.0000	0.881	0.634	NO	1.187	1.199	30.29	30.61	202.44	101.2		0.502
20	20 13C-1,2,3,4,7,8-Hx...	6.84e4	1.13e5	10.0000	0.642	1.285	NO	1.014	1.014	33.90	33.91	188.78	94.4		0.944
21	21 13C-1,2,3,6,7,8-Hx...	7.61e4	1.13e5	10.0000	0.856	1.224	NO	1.017	1.017	34.02	34.01	157.62	78.8		0.708
22	22 13C-1,2,3,7,8,9-Hx...	7.70e4	1.13e5	10.0000	0.807	1.272	NO	1.026	1.026	34.32	34.30	169.13	84.6		0.751
23	23 13C-1,2,3,4,6,7,8-H...	6.13e4	1.13e5	10.0000	0.654	1.056	NO	1.126	1.130	37.66	37.78	166.18	83.1		1.08
24	24 13C-OCDD	1.23e5	1.13e5	10.0000	0.580	0.914	NO	1.226	1.227	41.00	41.03	376.01	94.0		1.32
25	25 13C-2,3,7,8-TCDF	1.59e5	1.74e5	10.0000	1.035	0.795	NO	0.992	0.991	25.32	25.31	176.49	88.2		0.586
26	26 13C-1,2,3,7,8-PeCDF	1.46e5	1.74e5	10.0000	0.854	1.608	NO	1.154	1.153	29.45	29.43	195.93	98.0		0.797
27	27 13C-2,3,4,7,8-PeCDF	1.43e5	1.74e5	10.0000	0.847	1.619	NO	1.189	1.188	30.35	30.32	194.60	97.3		0.804
28	28 13C-1,2,3,4,7,8-Hx...	9.80e4	1.13e5	10.0000	0.832	0.486	NO	0.987	0.988	33.01	33.02	208.74	104.4		1.00
29	29 13C-1,2,3,6,7,8-Hx...	1.01e5	1.13e5	10.0000	1.034	0.518	NO	0.991	0.991	33.13	33.15	173.34	86.7		0.806
30	30 13C-2,3,4,6,7,8-Hx...	9.36e4	1.13e5	10.0000	0.953	0.515	NO	1.009	1.009	33.75	33.74	173.98	87.0		0.875
31	31 13C-1,2,3,7,8,9-Hx...	8.30e4	1.13e5	10.0000	0.828	0.525	NO	1.039	1.037	34.73	34.68	177.69	88.8		1.01

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191204D2\191204D2-2.qld

Last Altered: Friday, December 06, 2019 13:07:51 Pacific Standard Time

Printed: Friday, December 06, 2019 13:08:45 Pacific Standard Time

Name: 191204D2_2, Date: 5-DEC-2019, Time: 08:21:55, ID: B9K0169-BS1 OPR 10,
 Description: B9K0169-BS1 OPR 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

#	Name	Area	IS Area	Wt./Vol.	RRF	RA	Y/N	Pred...	RRT	Pred.RT	RT	Conc.	%Rec	EMPC	DL
32	32 13C-1,2,3,4,6,7,8-H...	6.96e4	1.13e5	10.0000	0.757	0.446	NO	1.093	1.092	36.54	36.53	162.93	81.5		1.11
33	33 13C-1,2,3,4,7,8,9-H...	5.71e4	1.13e5	10.0000	0.581	0.440	NO	1.143	1.146	38.22	38.31	174.03	87.0		1.45
34	34 13C-OCDF	1.54e5	1.13e5	10.0000	0.689	0.867	NO	1.233	1.234	41.24	41.25	395.37	98.8		0.848
35	35 37Cl-2,3,7,8-TCDD	4.44e4	1.04e5	10.0000	1.198			1.022	1.023	26.09	26.10	71.059	88.8		0.206
36	36 13C-1,2,3,4-TCDD	1.04e5	1.04e5	10.0000	1.000	0.813	NO	1.000	1.000	25.50	25.53	200.00	100.0		0.592
37	37 13C-1,2,3,4-TCDF	1.74e5	1.74e5	10.0000	1.000	0.785	NO	1.000	1.000	24.06	24.10	200.00	100.0		0.606
38	38 13C-1,2,3,4,6,9-Hx...	1.13e5	1.13e5	10.0000	1.000	0.524	NO	1.000	1.000	33.42	33.44	200.00	100.0		0.834
39	39 Total Tetra-Dioxins		1.06e5	10.0000	0.901			0.000		25.50		19.732		19.7	0.219
40	40 Total Penta-Dioxins		9.32e4	10.0000	0.872			0.000		30.00		99.170		99.2	0.319
41	41 Total Hexa-Dioxins		0.00e0	10.0000	0.976			0.000		33.80		285.61		286	0.506
42	42 Total Hepta-Dioxins		6.13e4	10.0000	0.989			0.000		37.75		93.751		93.8	0.561
43	43 Total Tetra-Furans		1.59e5	10.0000	0.943			0.000		24.00		17.607		17.6	0.177
44	44 1st Func. Penta-Fur...		0.00e0	10.0000	0.940			0.000		27.63					0.0383
45	45 Total Penta-Furans		0.00e0	10.0000	0.940			0.000		30.00		190.39		190	0.285
46	46 Total Hexa-Furans		0.00e0	10.0000	1.078			0.000		33.00		353.58		354	0.499
47	47 Total Hepta-Furans		0.00e0	10.0000	1.135			0.000		37.75		172.90		173	0.944

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191204D2\191204D2-2.qld

Last Altered: Friday, December 06, 2019 13:07:51 Pacific Standard Time

Printed: Friday, December 06, 2019 13:08:45 Pacific Standard Time

Method: U:\VG7.pro\MethDB\1613VG7-12-4-19.mdb 06 Dec 2019 10:27:59

Calibration: 06 Dec 2019 12:16:39

Name: 191204D2_2, Date: 5-DEC-2019, Time: 08:21:55, ID: B9K0169-BS1 OPR 10,

Description: B9K0169-BS1 OPR 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

Tetra-Dioxins

#	Name	NY	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	1 2,3,7,8-TCDD	NO	26.12	4009.251	45754.215	178.634	MM	19.7320	19.73

Penta-Dioxins

#	Name	NY	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	2 1,2,3,7,8-PeCDD	NO	30.63	15626.803	36161.051	895.211	bb	99.1704	99.17

Hexa-Dioxins

#	Name	NY	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	5 1,2,3,7,8,9-HxCDD	NO	34.32	19532.418	43089.723	917.554	bb	95.4493	95.45
2	4 1,2,3,6,7,8-HxCDD	NO	34.03	18779.799	41870.102	909.348	db	96.8835	96.88
3	3 1,2,3,4,7,8-HxCDD	NO	33.92	19856.619	38461.695	1027.302	MM	93.2808	93.28

Hepta-Dioxins

#	Name	NY	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
6	1,2,3,4,6,7,8-HpCDD	NO	37.79	14303.960	31492.725	918.198	MM	93.7511	93.75

Tetra-Furans

#	Name	NY	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
8	2,3,7,8-TCDF	NO	25.33	5792.411	70391.891	167.281	MM	17.6067	17.61

Penta-Furans function 1

#	Name	NY	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191204D2\191204D2-2.qld

Last Altered: Friday, December 06, 2019 13:07:51 Pacific Standard Time

Printed: Friday, December 06, 2019 13:08:45 Pacific Standard Time

Name: 191204D2_2, Date: 5-DEC-2019, Time: 08:21:55, ID: B9K0169-BS1 OPR 10,
 Description: B9K0169-BS1 OPR 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

Penta-Furans

#	Name	NY	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	10 2,3,4,7,8-PeCDF	NO	30.34	42674.500	88647.508	965.119	MM	95.1044	95.10
2	9 1,2,3,7,8-PeCDF	NO	29.45	40817.824	89756.313	915.158	MM	95.2893	95.29

Hexa-Furans

#	Name	NY	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	14 1,2,3,7,8,9-HxCDF	NO	34.69	21326.883	28549.756	925.528	bb	87.1824	87.18
2	13 2,3,4,6,7,8-HxCDF	NO	33.76	25435.596	31824.111	1007.658	bb	90.4865	90.49
3	12 1,2,3,6,7,8-HxCDF	NO	33.17	26483.299	34527.047	947.268	db	88.6208	88.62
4	11 1,2,3,4,7,8-HxCDF	NO	33.05	27715.289	32055.814	1027.253	bd	87.2921	87.29

Hepta-Furans

#	Name	NY	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	16 1,2,3,4,7,8,9-HpCDF	NO	38.33	15721.413	17437.201	1082.265	bb	84.5586	84.56
2	15 1,2,3,4,6,7,8-HpCDF	NO	36.54	17517.432	21478.678	996.146	bb	88.3421	88.34

Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Friday, December 06, 2019 10:31:48 Pacific Standard Time

Printed: Friday, December 06, 2019 10:37:02 Pacific Standard Time

Method: U:\VG7.pro\MethDB\1613VG7-12-4-19.mdb 06 Dec 2019 10:27:59

Calibration: 06 Dec 2019 10:31:47

Name: 191204D2_2, Date: 5-DEC-2019, Time: 08:21:55, ID: B9K0169-BS1 OPR 10, Description: B9K0169-BS1 OPR 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

Total Tetra-Dioxins

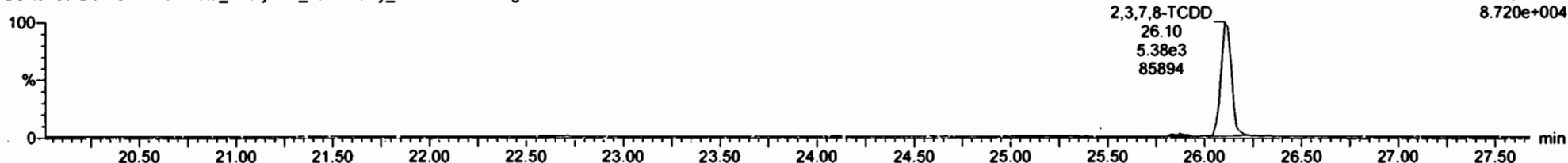
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F1:SIR of 15 channels,EI+ 319.8965 6.733e+004



191204D2_2 B9K0169-BS1 OPR 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 B9K0169-BS1 OPR 10

F1:SIR of 15 channels,EI+ 321.894 8.720e+004



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

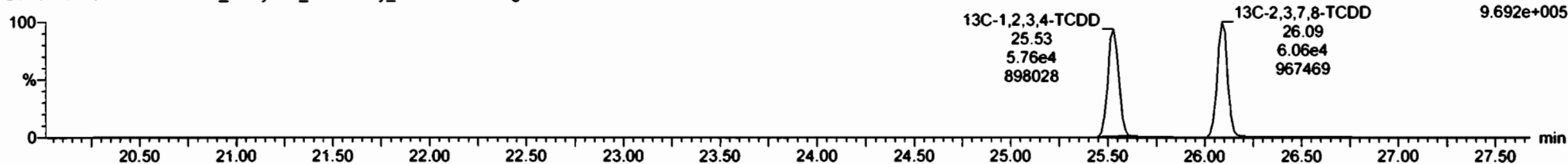
191204D2_2 B9K0169-BS1 OPR 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 B9K0169-BS1 OPR 10

F1:SIR of 15 channels,EI+ 331.9368 7.846e+005



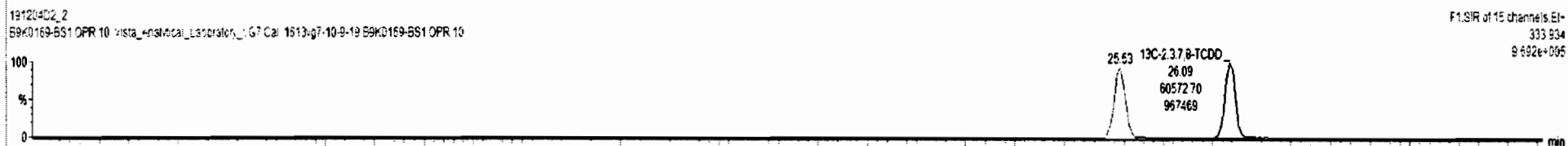
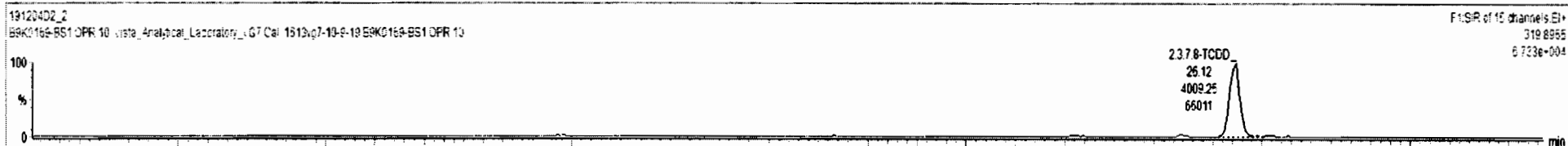
191204D2_2 B9K0169-BS1 OPR 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 B9K0169-BS1 OPR 10

F1:SIR of 15 channels,EI+ 333.934 9.692e+005



ID	Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	9.50e3	0.73	NO		10.000	26.12	1.001	19.7		0.216	19.7
2	1,2,3,7,8-PeCDD	4.17e4	0.60	NO		10.000	30.63	1.001	99.2		0.308	99.2
3	1,2,3,4,7,8-HxCDD	3.52e4	1.24	NO		10.000	33.92	1.000	93.6		0.451	92.6
4	1,2,3,6,7,8-HxCDD	3.40e4	1.23	NO		10.000	34.03	1.001	95.3		0.532	95.3
5	1,2,3,7,8,9-HxCDD	3.53e4	1.24	NO		10.000	34.32	1.001	95.4		0.506	95.4
6	1,2,3,4,6,7,8-HpCDD	2.91e4	1.03	NO		10.000	37.76	1.000	93.8		0.566	93.8
7	OCDD	5.81e4	0.89	NO		10.000	41.03	1.000	190		0.609	190
8	2,3,7,8-TCDF	1.33e4	0.77	NO		10.000	25.33	1.001	17.6		0.175	17.6
9	1,2,3,7,8-PeCDF	6.86e4	1.60	NO		10.000	29.45	1.001	95.3		0.264	95.3
10	2,3,4,7,8-PeCDF	6.92e4	1.61	NO		10.000	36.34	1.001	95.1		0.279	95.1
11	1,2,3,4,7,8-HxCDF	5.03e4	1.23	NO		10.000	33.05	1.001	87.3		0.402	87.3
12	1,2,3,6,7,8-HxCDF	4.79e4	1.24	NO		10.000	33.17	1.001	88.6		0.445	88.6
13	1,2,3,4,6,7,8-HpCDF	4.71e4	1.17	NO		10.000	33.78	1.001	90.4		0.480	90.4

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

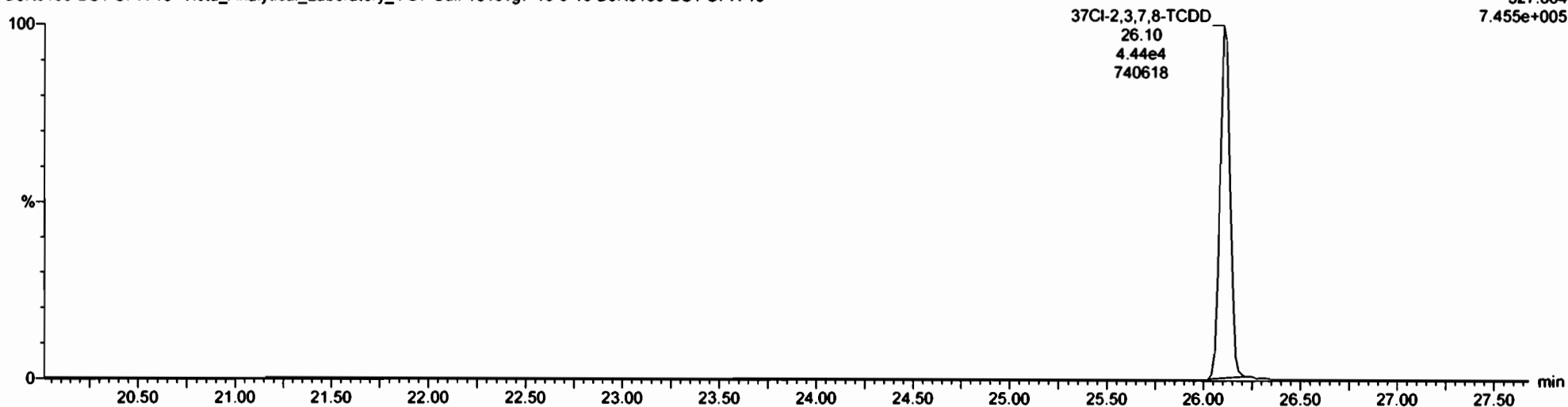


Name: 191204D2_2, Date: 5-DEC-2019, Time: 08:21:55, ID: B9K0169-BS1 OPR 10,
Description: B9K0169-BS1 OPR 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

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

191204D2_2
B9K0169-BS1 OPR 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 B9K0169-BS1 OPR 10

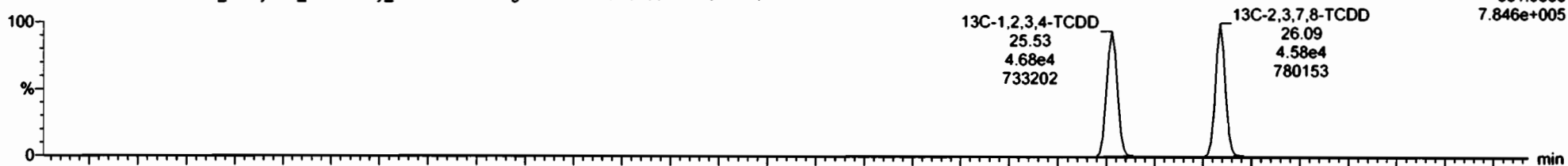
F1:SIR of 15 channels,EI+
327.884
7.455e+005



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

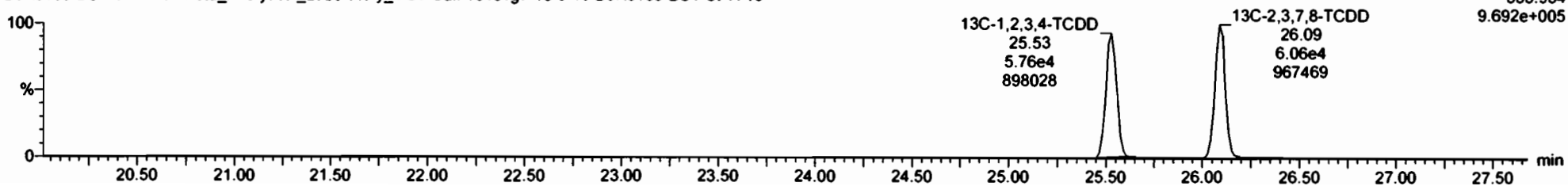
191204D2_2
B9K0169-BS1 OPR 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 B9K0169-BS1 OPR 10

F1:SIR of 15 channels,EI+
331.9368
7.846e+005



191204D2_2
B9K0169-BS1 OPR 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 B9K0169-BS1 OPR 10

F1:SIR of 15 channels,EI+
333.934
9.692e+005



Name: 191204D2_2, Date: 5-DEC-2019, Time: 08:21:55, ID: B9K0169-BS1 OPR 10,
Description: B9K0169-BS1 OPR 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

Total Penta-Dioxins

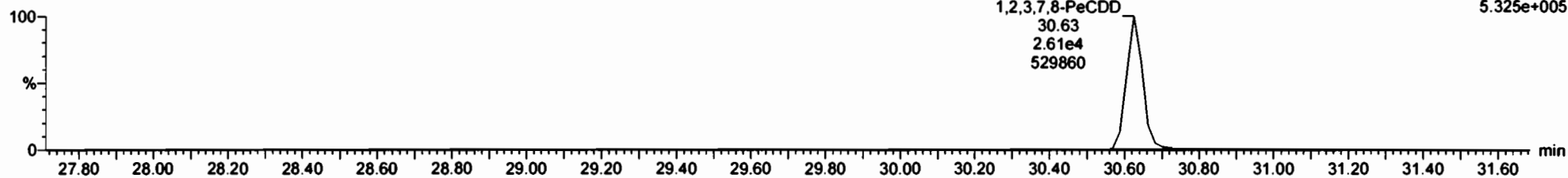
191204D2_2
B9K0169-BS1 OPR 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 B9K0169-BS1 OPR 10

F2:SIR of 17 channels,EI+
353.8576
3.206e+005



191204D2_2
B9K0169-BS1 OPR 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 B9K0169-BS1 OPR 10

F2:SIR of 17 channels,EI+
355.8550
5.325e+005



¹³C-1,2,3,7,8-PeCDD

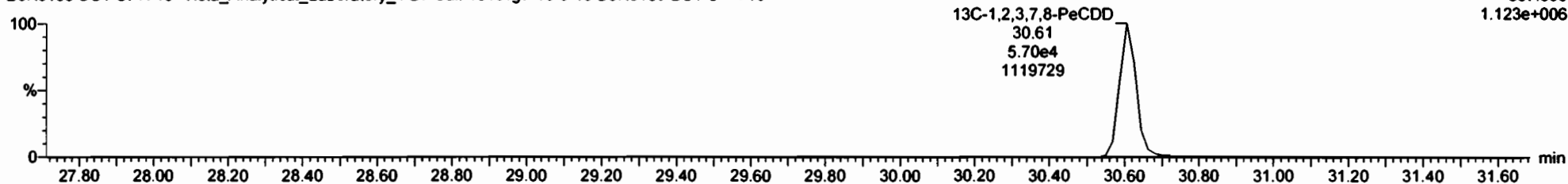
191204D2_2
B9K0169-BS1 OPR 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 B9K0169-BS1 OPR 10

F2:SIR of 17 channels,EI+
365.8978
7.076e+005



191204D2_2
B9K0169-BS1 OPR 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 B9K0169-BS1 OPR 10

F2:SIR of 17 channels,EI+
367.895
1.123e+006



Vista Analytical Laboratory

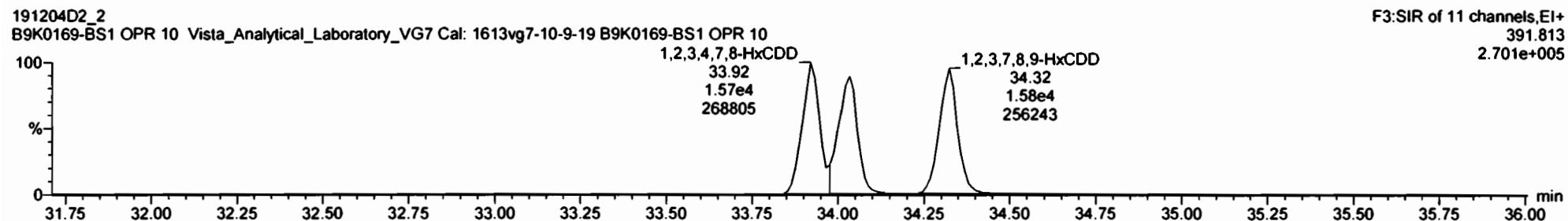
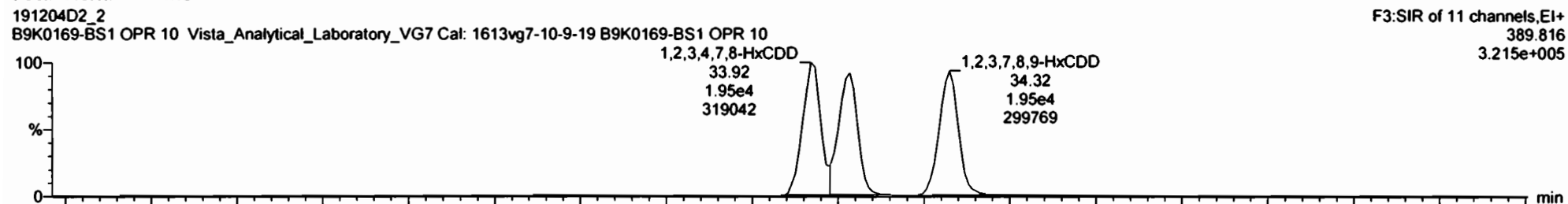
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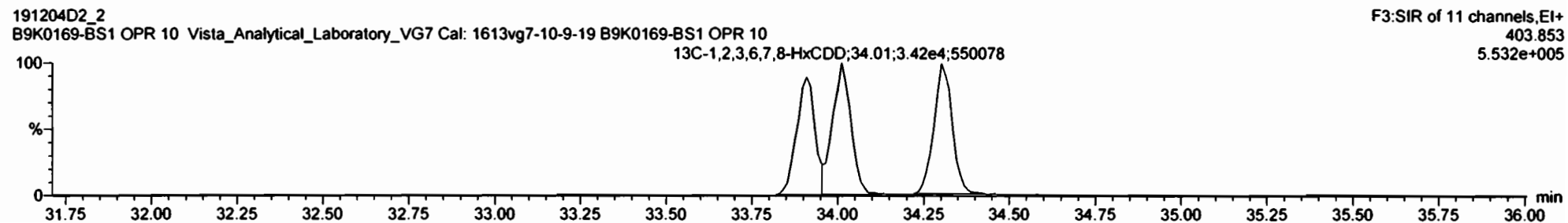
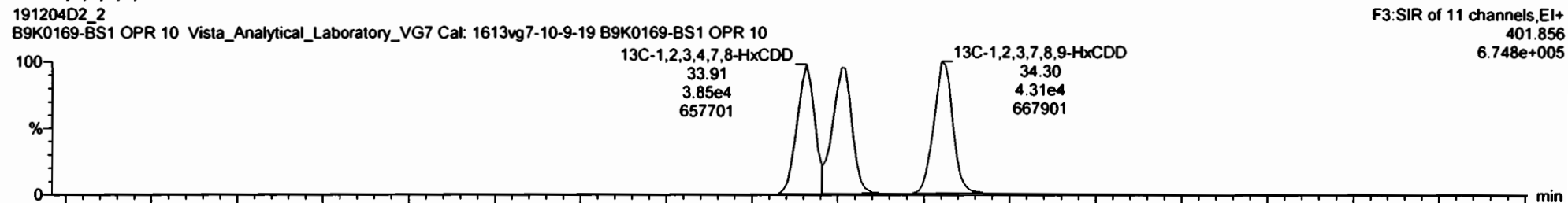
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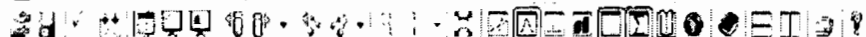
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Description: B9K0169-BS1 OPR 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

Total Hexa-Dioxins



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

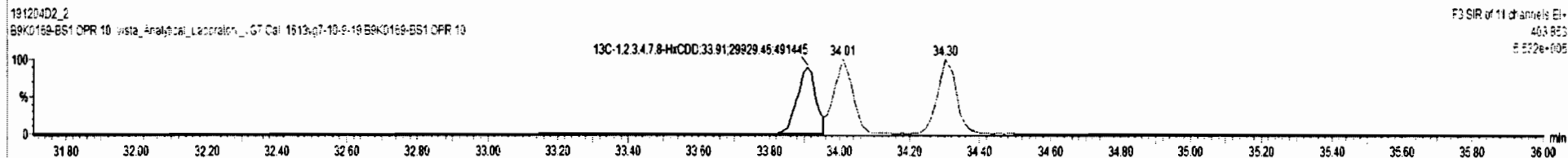
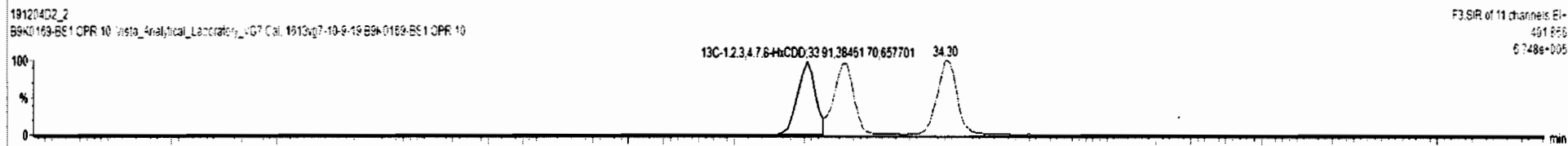
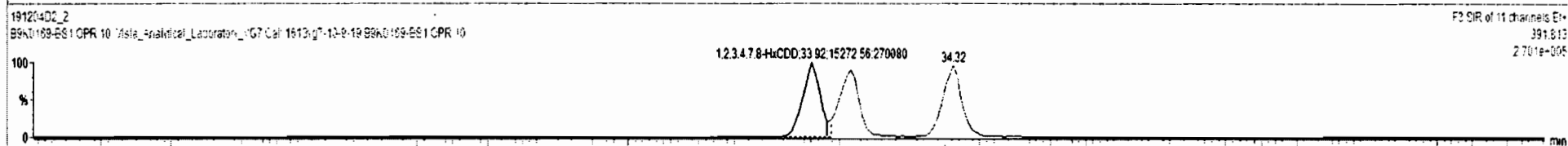
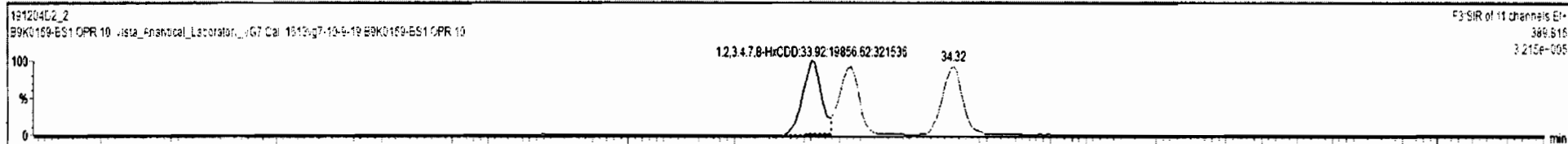




19120402_2 B9K0169-BS1 OPR 10 B9K0169-BS1 OPR 10 Vista Analytical Laboratory_VG7 Ca 1613vg7-10-9-19

Name	Resp	RA	n/y	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	9.50e3	0.73	NO		10.000	26.12	1.001	15.7		0.218	15.7
2 1,2,3,7,8-PeCDD	4.17e4	0.60	NO		10.000	36.63	1.001	95.2		0.368	95.2
3 1,2,3,4,7,8-HxCDD	3.51e4	1.30	NO		10.000	33.82	1.000	83.3		0.451	83.3
4 1,2,3,6,7,8-HxCDD	3.40e4	1.23	NO		10.000	34.03	1.001	95.3		0.532	95.3
5 1,2,3,7,8,9-HxCDD	2.53e4	1.24	NO		10.000	34.22	1.001	95.4		0.506	95.4
6 1,2,3,4,6,7,8-HpCDD	2.81e4	1.03	NO		10.000	37.79	1.000	93.6		0.566	93.6
7 OCDD	5.61e4	0.85	NO		10.000	41.63	1.000	190		0.629	190
8 2,3,7,8-TCDF	1.33e4	0.77	NO		10.000	28.33	1.001	17.6		0.175	17.6
9 1,2,3,7,8-PeCDF	6.96e4	1.60	NO		10.000	28.45	1.001	95.3		0.264	95.3
10 2,3,4,7,8-PeCDF	6.92e4	1.61	NO		10.000	30.34	1.001	95.1		0.279	95.1
11 1,2,3,4,7,8-HxCDF	5.03e4	1.23	NO		10.000	33.65	1.001	87.3		0.402	87.3
12 1,2,3,6,7,8-HxCDF	4.79e4	1.24	NO		10.000	33.17	1.001	86.6		0.445	86.6
13 1,2,3,4,6,7,8-HpCDF	4.71e4	1.17	NO		10.000	31.76	1.001	90.5		0.490	90.5

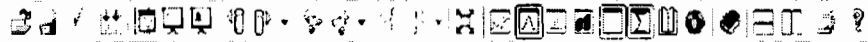
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1							



Custom Reporting: Select reports to generate

19120402_2

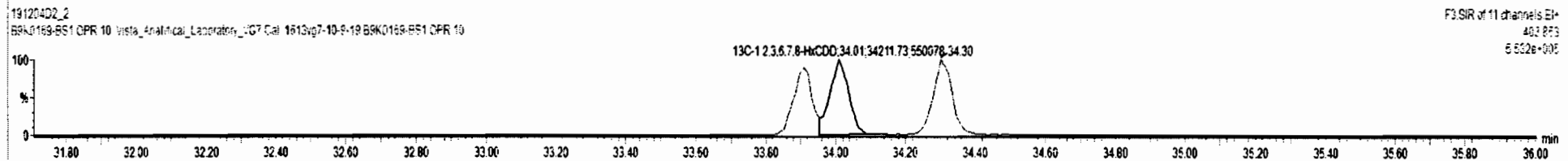
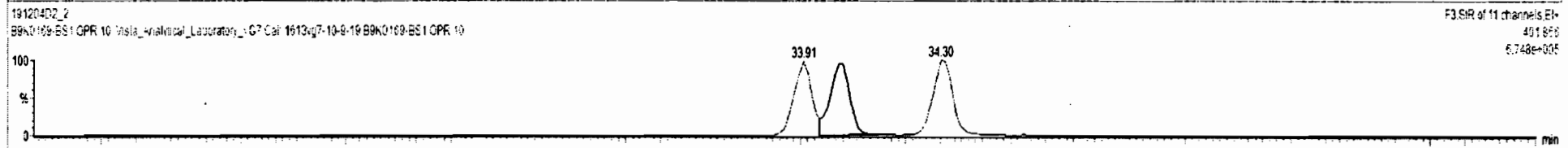
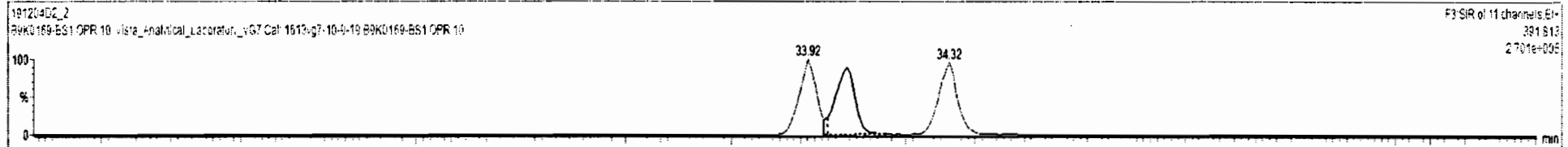
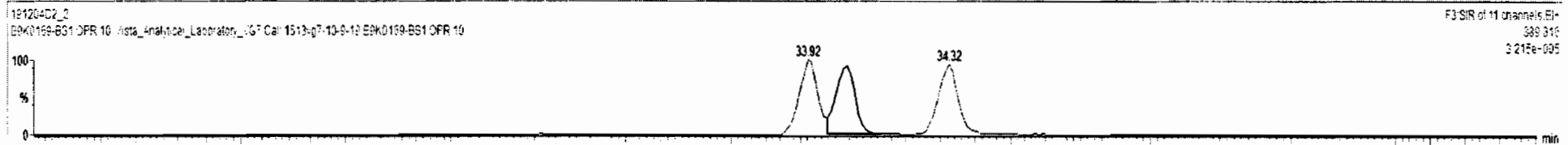
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191204D2_2_B9K0169-BS1-OPR10_B9K0169-BS1-OPR10_Vista_Analytical_Laboratory_VG7-Cal_1613vg7-10-9-19

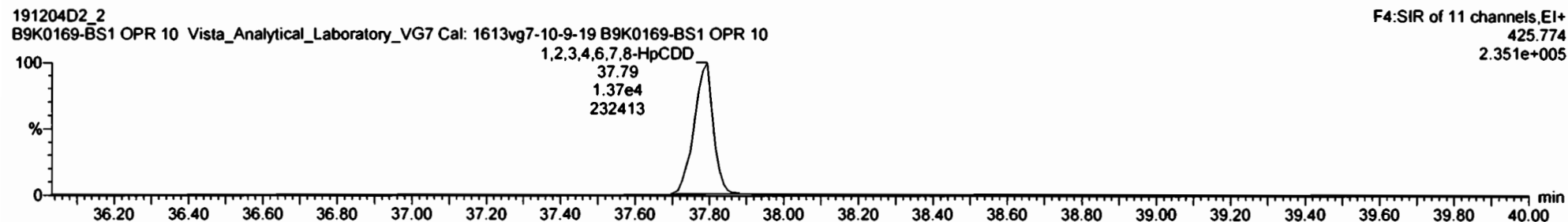
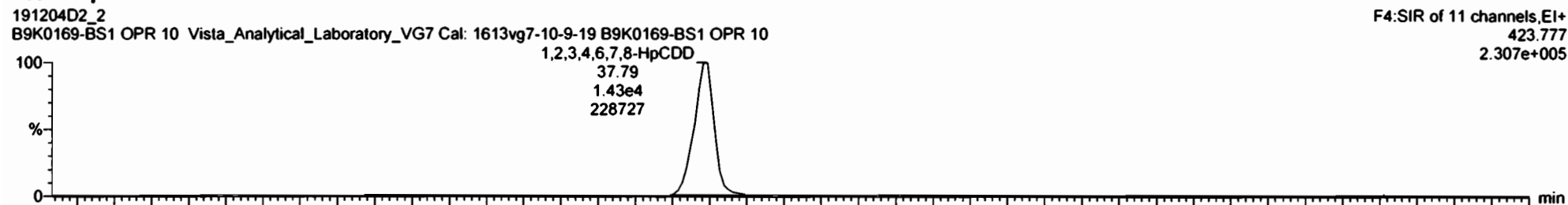
#	Name	Resp	IS Resp	ISL	RA	n/y	RUF	wt/wt	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	EMPC
1	1,2,3,7,8-TCDD	9.56e3	1.96e5	16	0.73	NO	0.605	10.000	26.12	26.12	1.001	1.001	NO	15.73	0.218	15.73	
2	1,2,3,7,8-PeCDD	4.17e4	9.32e4	19	0.60	NO	0.903	10.000	33.63	33.62	1.001	1.001	NO	95.17	0.308	95.17	
3	1,2,3,4,7,8-HxCDD	3.51e4	6.54e4	20	1.30	NO	1.101	10.000	33.92	33.62	1.000	1.000	NO	93.28	0.451	93.28	
4	1,2,3,6,7,8-HxCDD	3.46e4	7.81e4	21	1.19	NO	0.929	10.000	34.01	34.03	1.001	1.000	NO	96.68	0.532	96.68	
5	1,2,3,7,8,9-HxCDD	3.53e4	7.70e4	22	1.24	NO	0.961	10.000	34.34	34.32	1.001	1.001	NO	95.45	0.596	95.45	
6	1,2,3,4,6,7,8-HxCDD	2.81e4	6.13e4	23	1.03	NO	0.979	10.000	37.79	37.79	1.000	1.000	NO	93.75	0.566	93.75	
7	OCDD	5.61e4	1.22e5	24	0.86	NO	0.859	10.000	41.03	41.03	1.000	1.000	NO	196.3	0.639	196.3	
8	2,3,7,8-TCDF	1.33e4	1.59e5	25	0.77	NO	0.950	10.000	25.34	25.33	1.001	1.001	NO	17.61	0.175	17.61	
9	1,2,3,7,8-PeCDF	6.66e4	1.46e5	26	1.66	NO	0.960	10.000	29.45	29.45	1.001	1.001	NO	95.33	0.264	95.33	
10	1,2,3,4,7,8-PeCDF	6.92e4	1.42e5	27	1.61	NO	1.015	10.000	30.35	30.34	1.001	1.001	NO	95.10	0.279	95.10	
11	1,2,3,4,7,8-HxCDF	5.03e4	9.80e4	28	1.23	NO	1.177	10.000	33.02	33.65	1.001	1.000	NO	87.29	0.402	87.29	
12	1,2,3,6,7,8-HxCDF	4.76e4	1.01e5	29	1.24	NO	1.069	10.000	33.16	33.17	1.001	1.000	NO	86.62	0.445	86.62	
13	1,2,3,4,6,7,8-HxCDF	4.71e4	9.36e4	30	1.17	NO	1.114	10.000	33.73	33.76	1.001	1.001	NO	96.45	0.490	96.45	

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

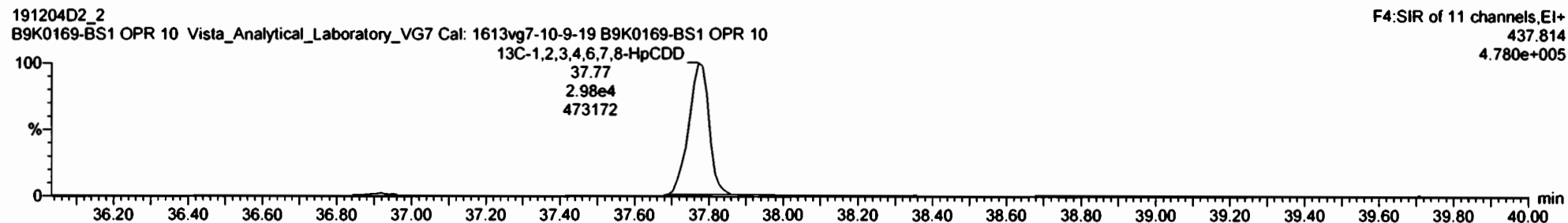
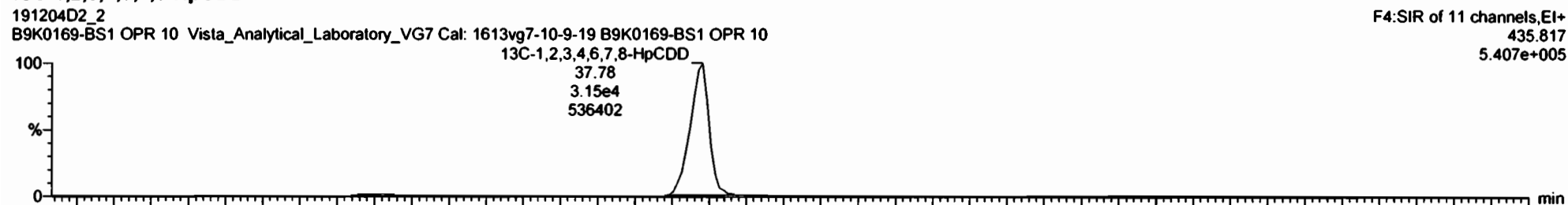


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Description: B9K0169-BS1 OPR 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

Total Hepta-Dioxins



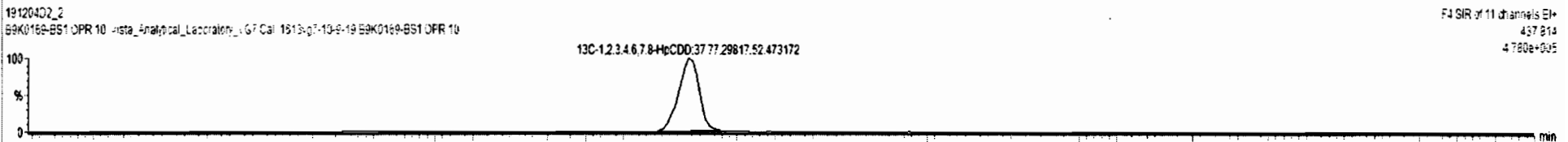
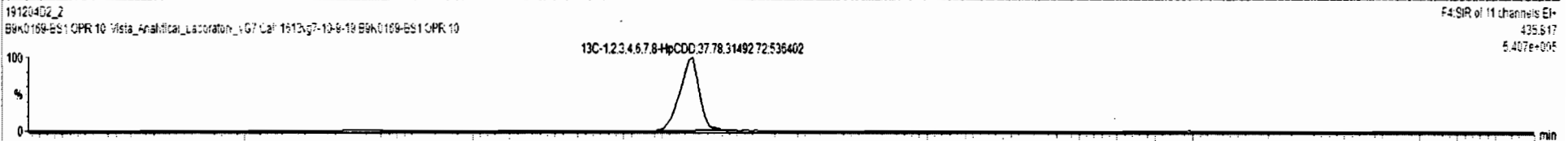
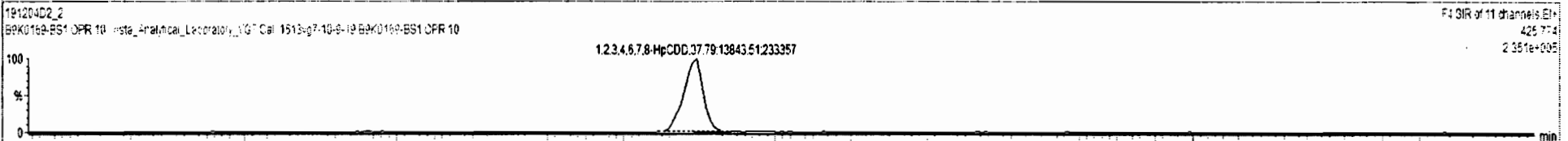
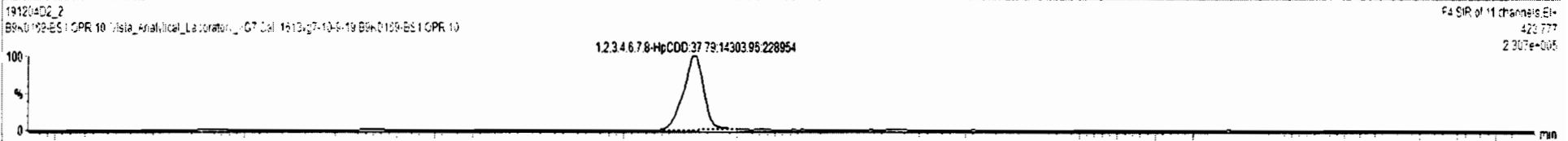
13C-1,2,3,4,6,7,8-HpCDD





#	Name	Resp	IS Resp	ISF	RA	n/y	RPF	wfVol	Pred_RT	RT	RRT	Pred_RRT	Check_RRT	Conc	%Rec	DL	EMPC
1	1,2,3,7,8-TCDD	9.56e3	1.06e5	18	3.73	NO	0.895	10.000	26.12	26.12	1.061	1.061	NO	19.73	0.218	15.73	
2	1,2,3,7,8-PeCDD	4.17e4	9.32e4	19	0.60	NO	0.903	10.000	30.63	30.63	1.061	1.061	NO	99.17	0.338	96.17	
3	1,2,3,4,7,8-HxCDD	3.518e4	6.846e4	26	1.30	NO	1.101	10.000	33.52	33.52	1.060	1.060	NO	93.28	0.451	93.28	
4	1,2,3,6,7,8-HxCDD	3.46e4	7.61e4	21	1.19	NO	0.939	10.000	34.01	34.02	1.061	1.060	NO	96.88	0.532	96.88	
5	1,2,3,7,8,9-HxCDD	3.53e4	7.70e4	22	1.24	NO	0.961	10.000	34.34	34.32	1.061	1.061	NO	95.45	0.506	95.45	
6	1,2,3,4,6,7,8-HpCDD	2.81e4	6.13e4	23	1.03	NO	0.979	10.000	37.79	37.79	1.060	1.060	NO	93.75	0.586	93.75	
7	OCDD	5.61e4	1.23e5	24	0.89	NO	0.959	10.000	41.03	41.03	1.060	1.060	NO	190.3	0.609	190.3	
8	1,2,3,7,8-TCDF	1.33e4	1.55e5	25	0.77	NO	0.950	10.000	25.34	25.33	1.061	1.061	NO	17.61	0.175	17.61	
9	1,2,3,7,8-PeCDF	6.66e4	1.46e5	26	1.60	NO	0.960	10.000	29.45	29.45	1.061	1.061	NO	95.33	0.264	95.33	
10	1,2,3,4,7,8-PeCDF	6.92e4	1.43e5	27	1.61	NO	1.015	10.000	30.35	30.34	1.061	1.061	NO	95.10	0.279	95.10	
11	1,2,3,4,7,8-HxCDF	5.03e4	9.90e4	28	1.23	NO	1.177	10.000	33.02	33.05	1.061	1.060	NO	87.28	0.402	87.28	
12	1,2,3,6,7,8-HxCDF	4.79e4	1.01e5	29	1.24	NO	1.069	10.000	33.16	33.17	1.061	1.060	NO	86.62	0.445	86.62	
13	1,2,3,4,6,7,8-HpCDF	4.71e4	9.36e4	30	1.17	NO	1.114	10.000	33.77	33.76	1.061	1.061	NO	96.46	0.470	96.46	

#	Name	Pred_RT	RT	mI Resp	mC Resp	Pred_RA	RA	n/y	EMPC	Conc.
1										

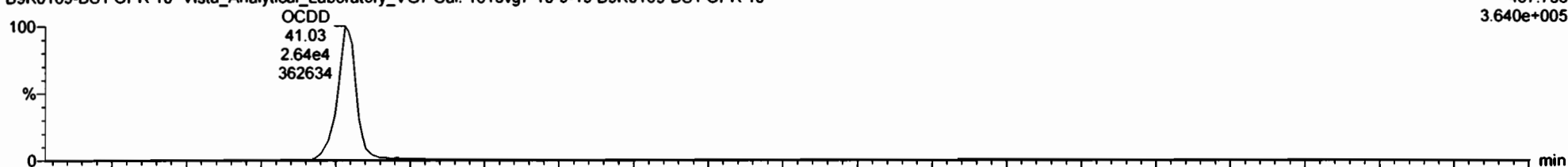


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Description: B9K0169-BS1 OPR 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

OCDD

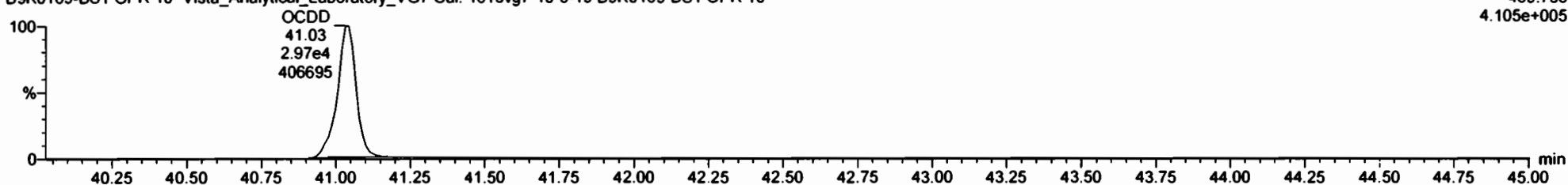
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B9K0169-BS1 OPR 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 B9K0169-BS1 OPR 10

F5:SIR of 11 channels,EI+
457.738
3.640e+005



191204D2_2
B9K0169-BS1 OPR 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 B9K0169-BS1 OPR 10

F5:SIR of 11 channels,EI+
459.735
4.105e+005



13C-OCDD

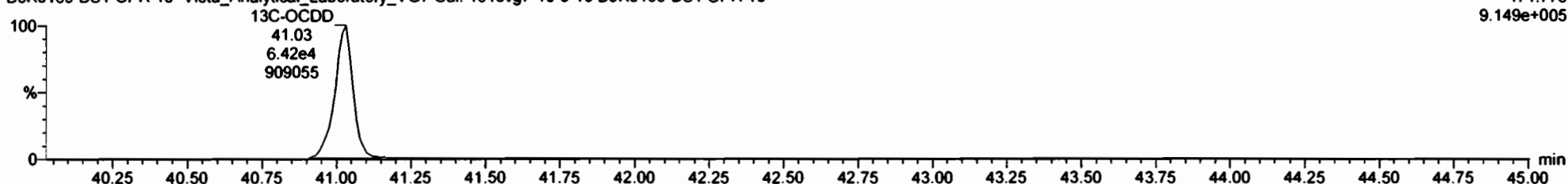
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F5:SIR of 11 channels,EI+
469.778
8.294e+005



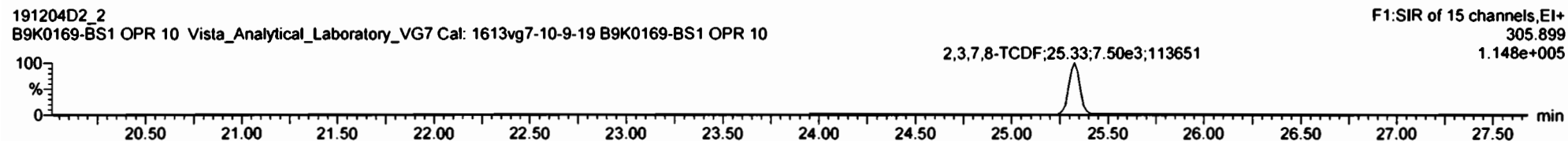
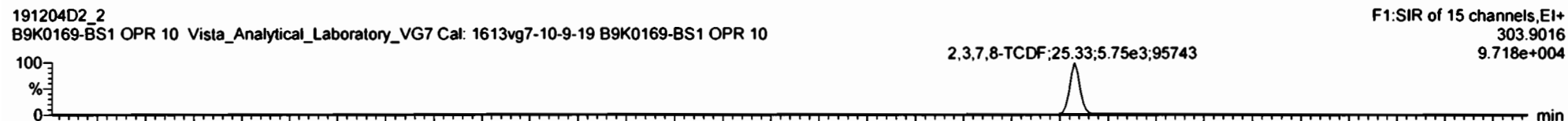
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B9K0169-BS1 OPR 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19 B9K0169-BS1 OPR 10

F5:SIR of 11 channels,EI+
471.775
9.149e+005

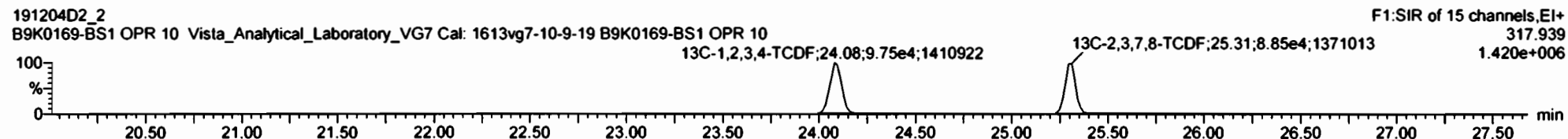
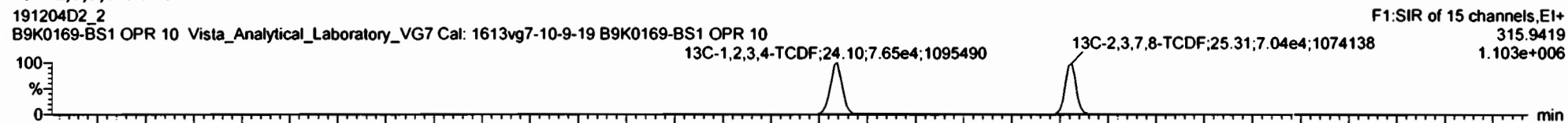


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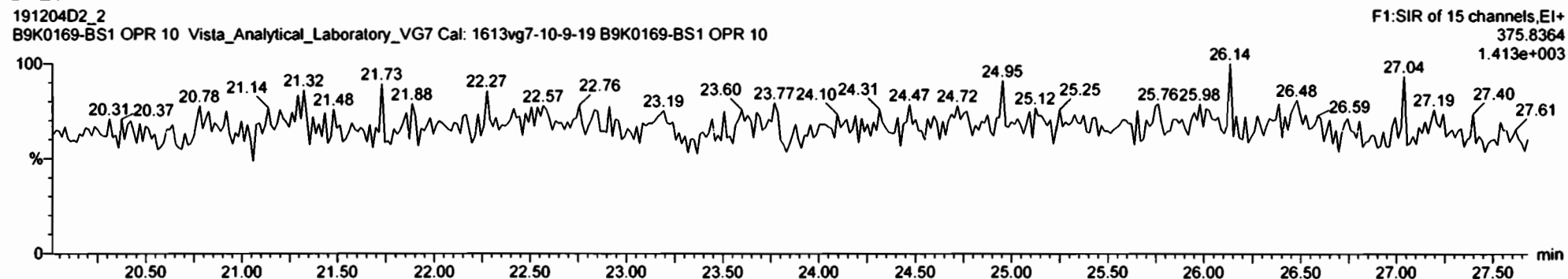
Total Tetra-Furans



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

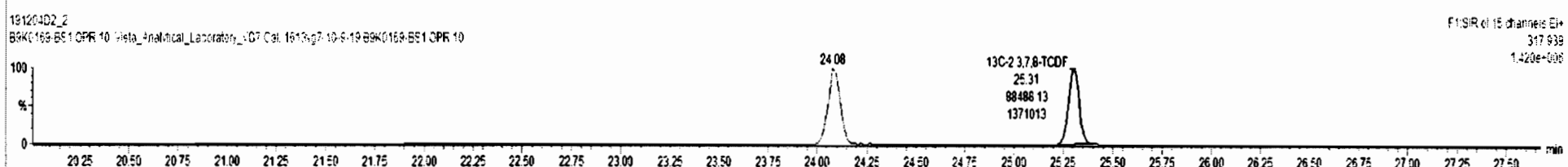
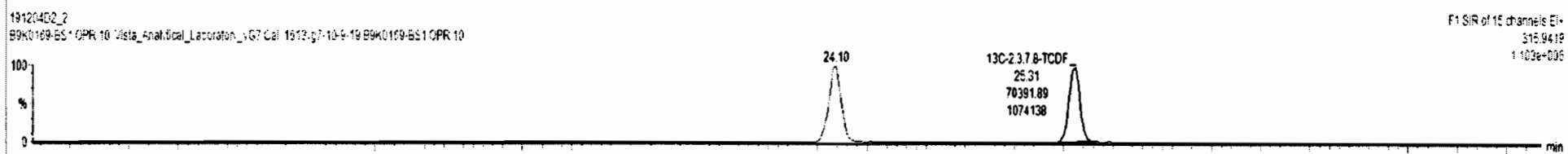
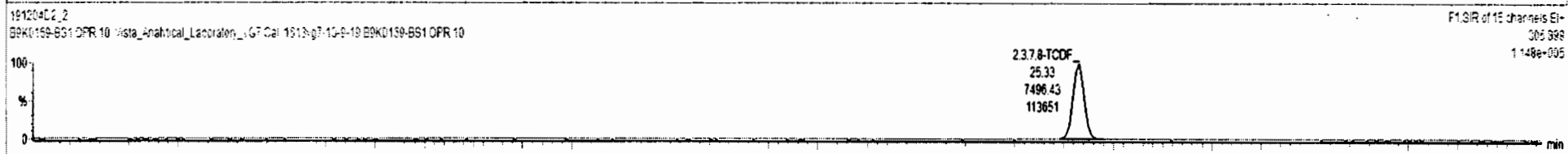
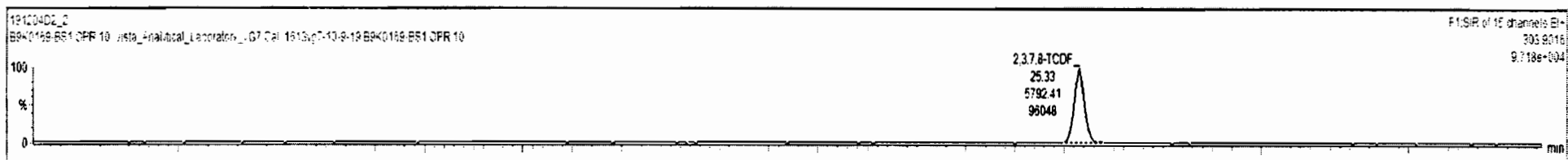


DPE1



#	Name	Resp	IS Resp	IS	RA	n/y	RPF	wtVol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1,2,3,7,8-TCDD	9.56e3	1.36e5	16	0.72	NO	0.905	10.000	26.12	26.42	1.001	1.001	NO	19.73	0.218	19.73	
2	1,2,3,7,8-PeCDD	4.17e4	9.32e4	19	0.50	NO	0.903	10.000	30.63	30.63	1.001	1.001	NO	95.17	0.208	95.17	
3	1,2,3,4,7,8-HxCDD	3.51e4	6.84e4	20	1.30	NO	1.101	10.000	33.92	33.92	1.000	1.000	NO	93.28	0.451	93.28	
4	1,2,3,6,7,8-HxCDD	3.46e4	7.61e4	21	1.19	NO	0.939	10.000	34.01	34.03	1.001	1.000	NO	96.68	0.532	96.68	
5	1,2,3,7,8,9-HxCDD	3.53e4	7.70e4	22	1.24	NO	0.951	10.000	34.34	34.32	1.001	1.001	NO	95.45	0.536	95.45	
6	1,2,3,4,6,7,8-HpCDD	2.01e4	6.12e4	23	1.92	NO	0.979	10.000	37.79	37.79	1.000	1.000	NO	93.75	0.566	93.75	
7	OCDD	5.61e4	1.23e5	24	0.69	NO	0.959	10.000	41.03	41.03	1.000	1.000	NO	190.3	0.609	190.3	
8	2,3,7,8-TCDF	1.35e4	1.50e5	25	0.77	NO	0.950	10.000	25.34	25.33	1.001	1.001	NO	17.61	8.175	17.61	
9	1,2,3,7,8-PeCDF	6.86e4	1.46e5	26	1.50	NO	0.960	10.000	29.45	29.45	1.001	1.001	NO	95.33	0.264	95.33	
10	1,2,3,4,7,8-HxCDF	6.92e4	1.42e5	27	1.61	NO	1.015	10.000	30.35	30.34	1.001	1.001	NO	95.10	0.279	95.10	
11	1,2,3,4,7,8-HxCDF	5.03e4	9.80e4	28	1.23	NO	1.177	10.000	33.02	33.05	1.001	1.000	NO	87.25	0.402	87.25	
12	1,2,3,6,7,8-HxCDF	4.75e4	1.01e5	29	1.24	NO	1.069	10.000	33.16	33.17	1.001	1.000	NO	86.62	0.445	86.62	
13	1,2,3,4,6,7,8-HpCDF	4.71e4	9.39e4	30	1.17	NO	1.114	10.000	33.77	33.76	1.001	1.001	NO	90.48	0.490	90.48	

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



Vista Analytical Laboratory

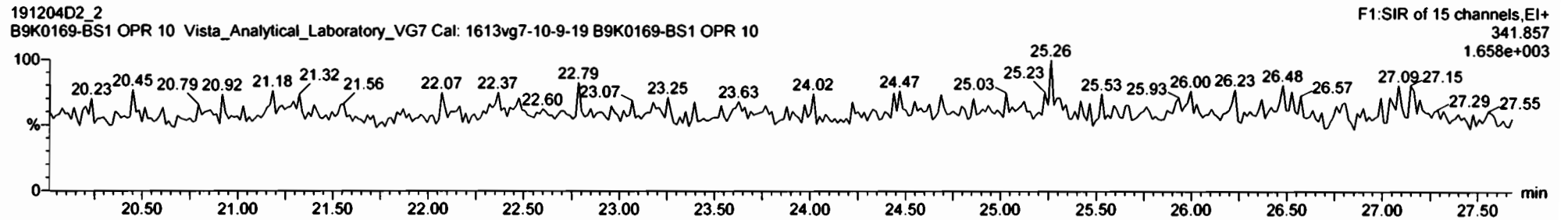
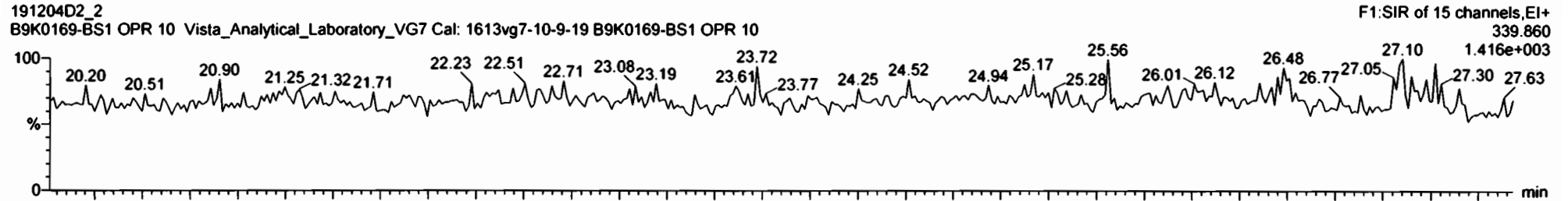
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Last Altered: Friday, December 06, 2019 10:31:48 Pacific Standard Time

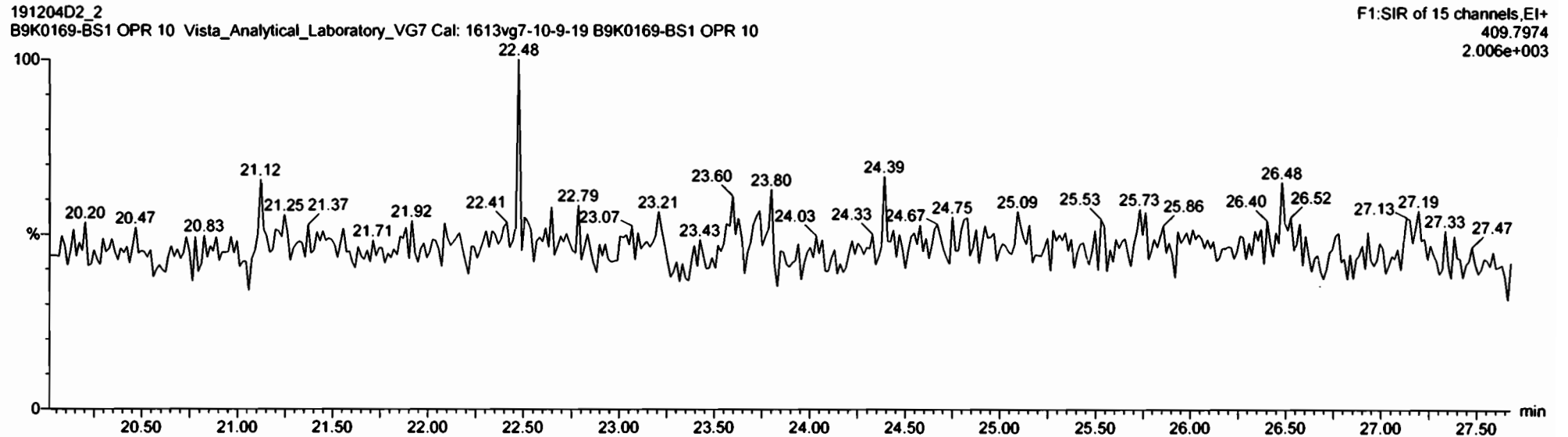
Printed: Friday, December 06, 2019 10:37:02 Pacific Standard Time

Name: 191204D2_2, Date: 5-DEC-2019, Time: 08:21:55, ID: B9K0169-BS1 OPR 10,
Description: B9K0169-BS1 OPR 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

1st Func. Penta-Furans

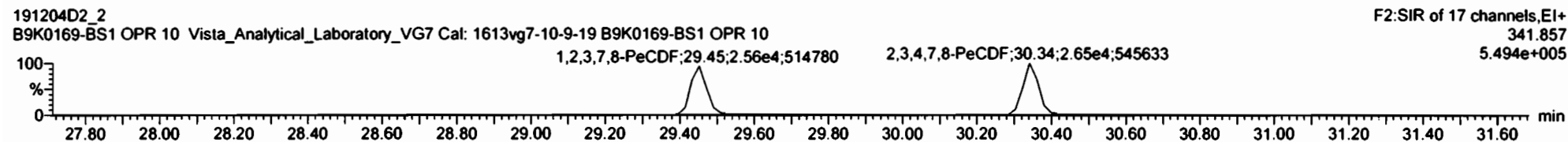
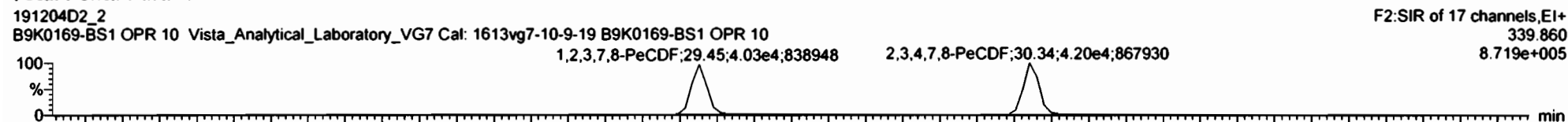


DPE6

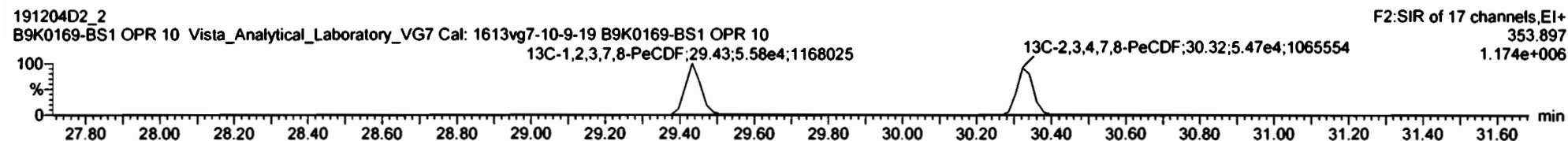
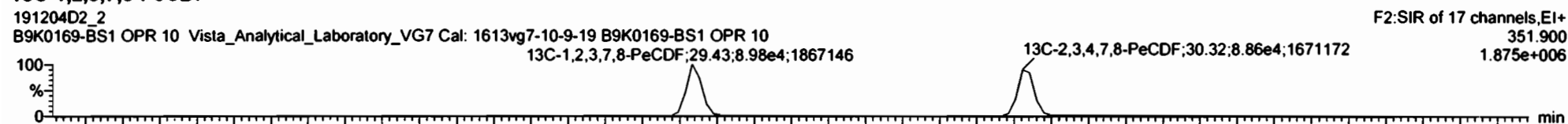


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Description: B9K0169-BS1 OPR 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

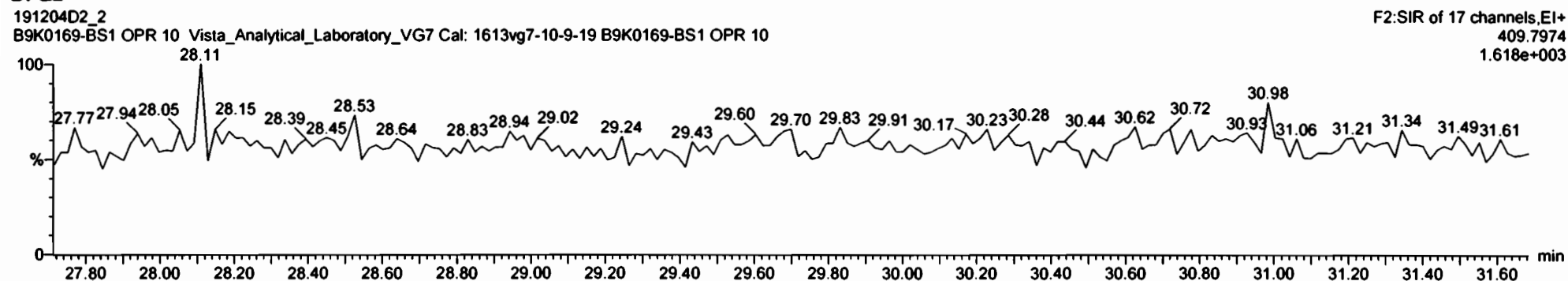
Total Penta-Furans



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

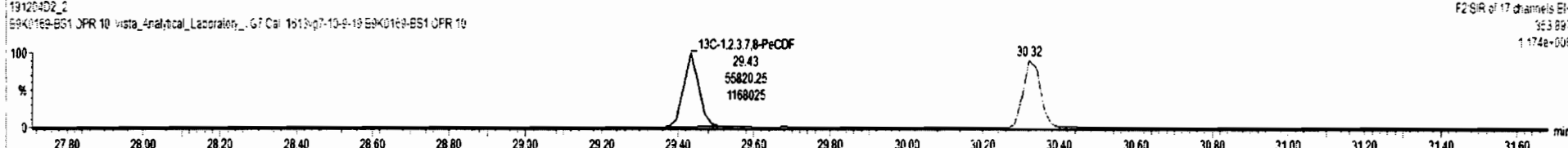
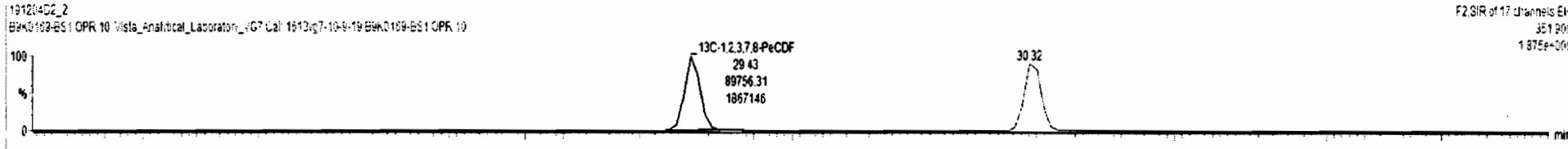
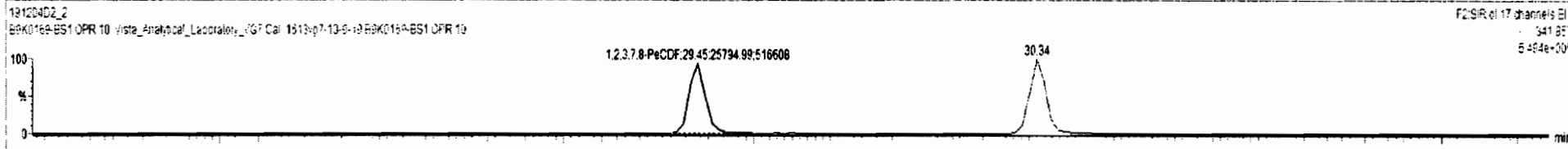
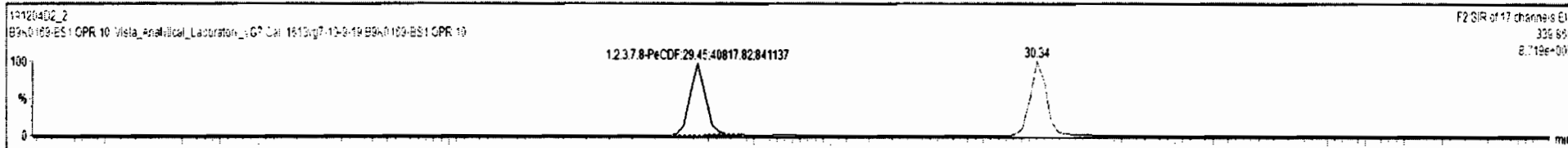


DPE2



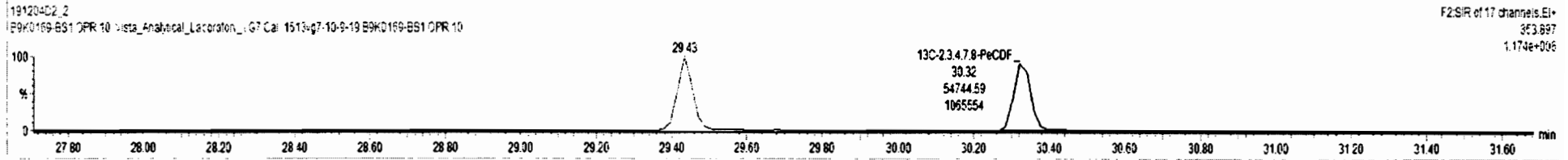
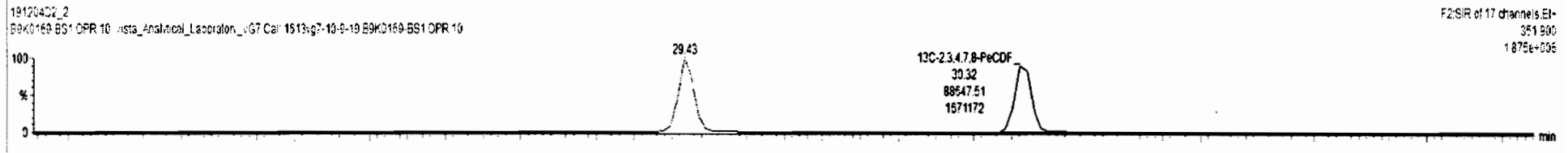
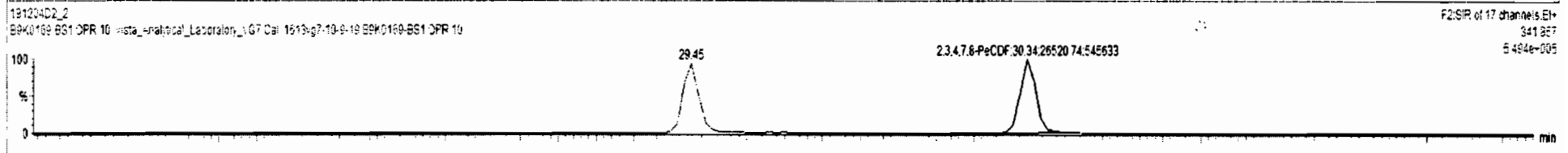
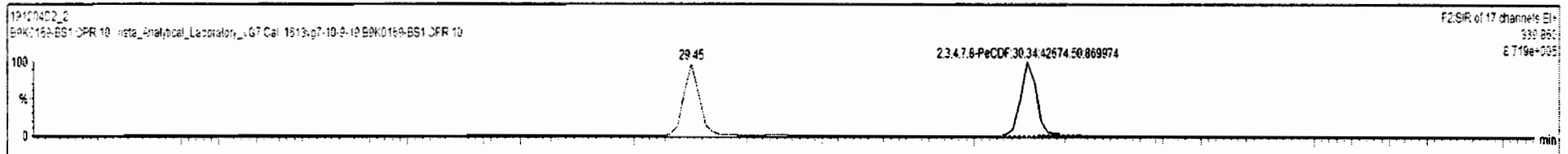
#	Name	Resp	IS Resp	ESR	RA	n/y	RUF	w/col	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	9.50e3	1.06e5	16	0.73	NO	0.905	10.000	26.12	26.12	1.001	1.001	NO	19.73		0.218	19.73
2	1,2,3,7,8-PeCDD	4.17e4	9.32e4	19	0.60	NO	0.903	10.000	30.63	30.63	1.001	1.001	NO	99.17		0.308	99.17
3	1,2,3,4,7,8-HxCDD	3.51e4	6.84e4	20	1.30	NO	1.101	10.000	33.92	33.92	1.000	1.000	NO	93.28		0.451	93.28
4	1,2,3,6,7,8-HxCDD	3.46e4	7.61e4	21	1.19	NO	0.939	10.000	34.01	34.03	1.001	1.000	NO	96.86		0.532	96.86
5	1,2,3,7,8,9-HxCDD	3.53e4	7.70e4	22	1.24	NO	0.961	10.000	34.34	34.32	1.001	1.001	NO	95.45		0.596	95.45
6	1,2,3,4,6,7,8-HpCDD	2.81e4	6.13e4	23	1.03	NO	0.979	10.000	37.79	37.79	1.000	1.000	NO	93.75		0.566	93.75
7	OCDD	5.61e4	1.23e5	24	0.89	NO	0.959	10.000	41.03	41.53	1.000	1.000	NO	190.3		0.509	190.3
8	2,3,7,8-TCDF	1.33e4	1.59e5	25	0.77	NO	0.950	10.000	25.34	25.33	1.001	1.001	NO	17.61		0.175	17.61
9	1,2,3,7,8-PeCDF	6.06e4	1.46e5	26	1.58	NO	0.990	10.000	29.45	29.45	1.001	1.001	NO	95.29		0.264	95.29
10	1,2,3,4,7,8-PeCDF	6.92e4	1.42e5	27	1.61	NO	1.015	10.000	30.35	30.34	1.001	1.001	NO	95.10		0.279	95.10
11	1,2,3,4,7,8-HxCDF	5.03e4	9.60e4	28	1.23	NO	1.177	10.000	33.02	33.05	1.001	1.000	NO	87.29		0.402	87.29
12	1,2,3,6,7,8-HxCDF	4.79e4	1.01e5	29	1.24	NO	1.069	10.000	33.16	33.17	1.001	1.000	NO	86.62		0.445	86.62
13	1,2,3,4,6,7,8-HpCDF	4.71e4	9.36e4	30	1.17	NO	1.114	10.000	33.77	33.76	1.001	1.001	NO	96.49		0.490	96.49

#	Name	Pred RT	RT	nt Resp	nc Resp	Pred RA	RA	n/y	EMPC	Conc.
1										



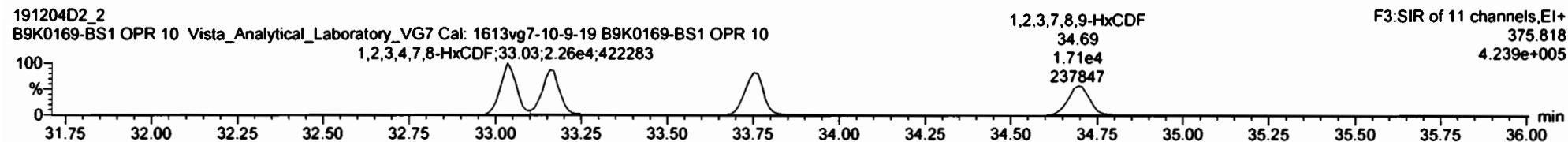
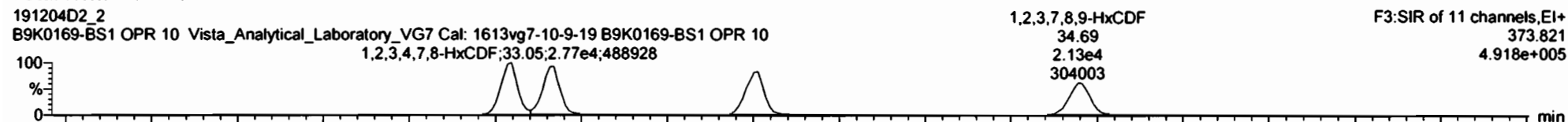
#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wrtvol	Pred RT	RT	RRT	Pred.RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1,2,3,7,8-TCDF	9.50e3	1.06e4	18	0.73	NO	0.905	10.500	26.12	26.12	1.001	1.001	NO	15.73	0.218	15.73	
2	1,2,3,7,8-PeCDF	4.17e4	9.32e4	19	0.50	NO	0.903	10.500	29.63	30.62	1.001	1.001	NO	99.17	0.398	99.17	
3	1,2,3,4,7,8-HxCDD	3.51e4	6.84e4	20	1.30	NO	1.101	10.500	33.92	33.92	1.000	1.000	NO	93.28	0.451	93.28	
4	1,2,3,6,7,8-HxCDD	3.46e4	7.61e4	21	1.19	NO	0.939	10.500	34.01	34.03	1.001	1.000	NO	96.68	0.532	96.68	
5	1,2,3,7,8,9-HxCDD	3.53e4	7.70e4	22	1.24	NO	0.961	10.500	34.34	34.32	1.001	1.001	NO	95.45	0.596	95.45	
6	1,2,3,4,6,7,8-HpCDD	2.81e4	6.13e4	23	1.03	NO	0.979	10.500	37.79	37.79	1.000	1.000	NO	93.75	0.566	93.75	
7	OCDD	5.61e4	1.22e5	24	0.85	NO	0.959	10.500	41.03	41.03	1.000	1.000	NO	190.3	0.609	190.3	
8	2,3,7,8-TCDF	1.33e4	1.59e5	25	0.77	NO	0.950	10.500	25.34	25.33	1.001	1.001	NO	17.61	0.175	17.61	
9	1,2,3,7,8-PeCDF	6.66e4	1.46e5	26	1.58	NO	0.960	10.500	29.45	29.45	1.001	1.001	NO	95.29	0.254	95.29	
10	2,3,4,7,8-PeCDF	6.82e4	1.43e5	27	1.61	NO	1.015	10.000	30.35	30.34	1.001	1.001	NO	95.10	0.279	95.10	
11	1,2,3,4,7,8-HxCDF	5.03e4	9.80e4	28	1.23	NO	1.177	10.500	33.02	33.05	1.001	1.000	NO	87.28	0.402	87.28	
12	1,2,3,6,7,8-HxCDF	4.79e4	1.01e5	29	1.24	NO	1.069	10.500	33.16	33.17	1.001	1.000	NO	86.62	0.445	86.62	
13	2,3,4,7,8-HxCDF	4.71e4	9.36e4	30	1.17	NO	1.114	10.500	33.77	33.76	1.001	1.001	NO	90.45	0.490	90.45	

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

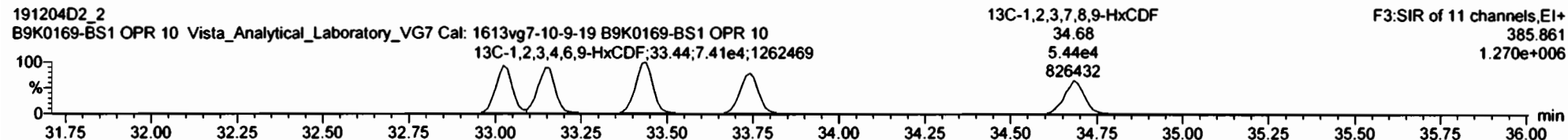
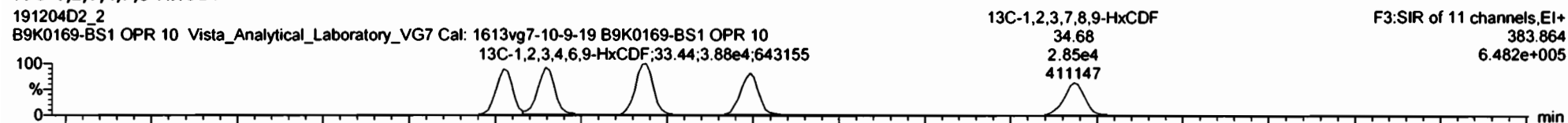


Name: 191204D2_2, Date: 5-DEC-2019, Time: 08:21:55, ID: B9K0169-BS1 OPR 10,
 Description: B9K0169-BS1 OPR 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

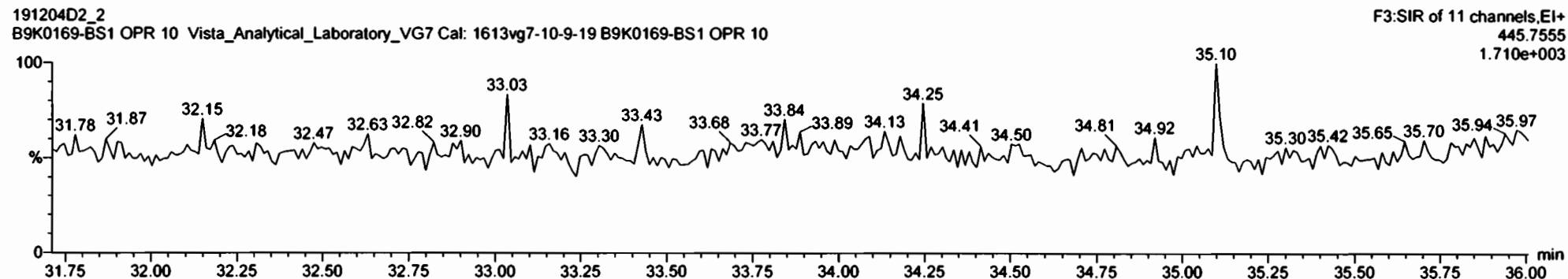
Total Hexa-Furans



¹³C-1,2,3,4,7,8-HxCDF



DPE3



Vista Analytical Laboratory

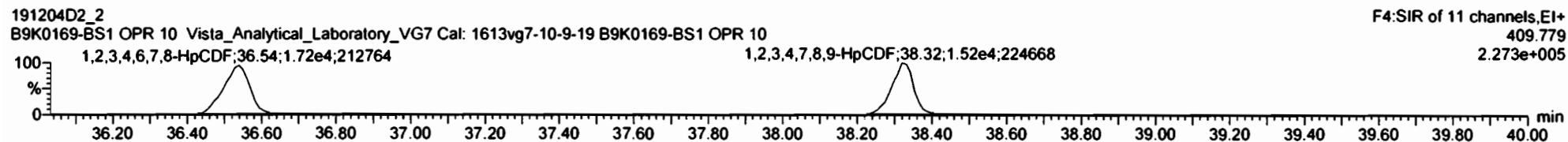
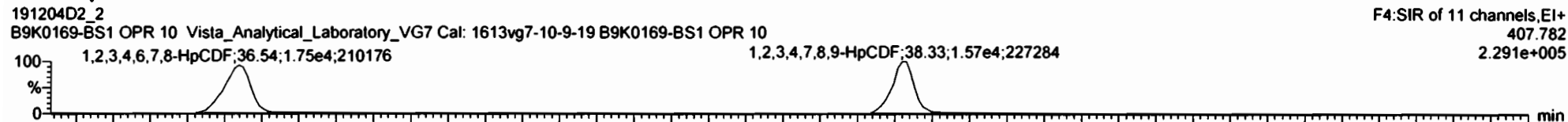
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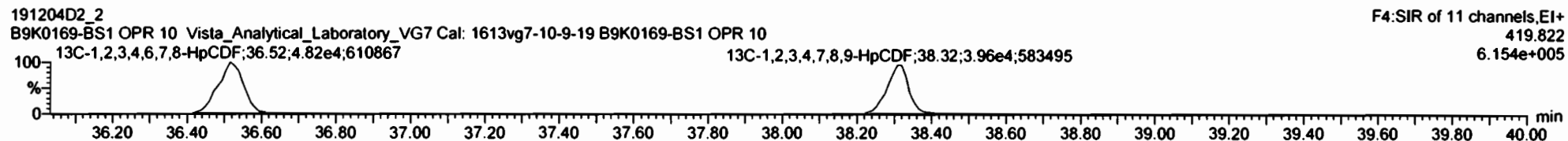
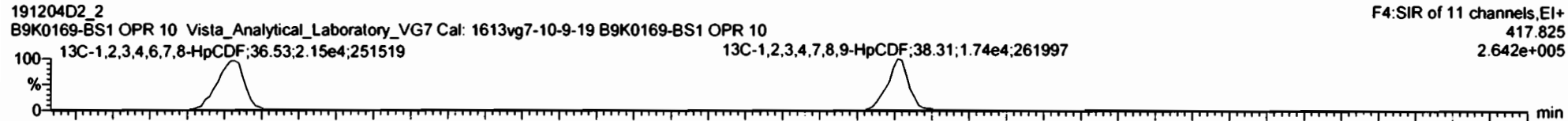
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Description: B9K0169-BS1 OPR 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

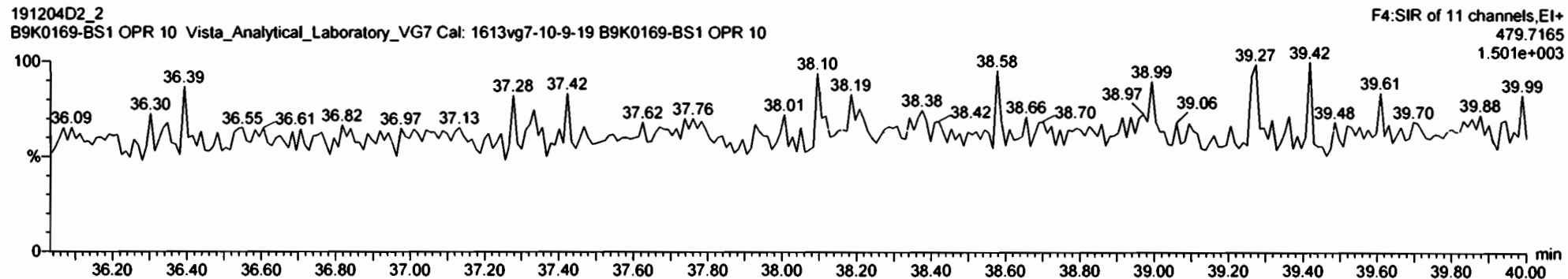
Total Hepta-Furans



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



DPE4



Vista Analytical Laboratory

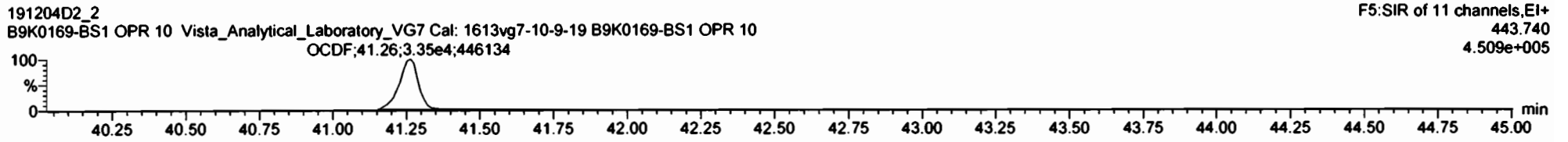
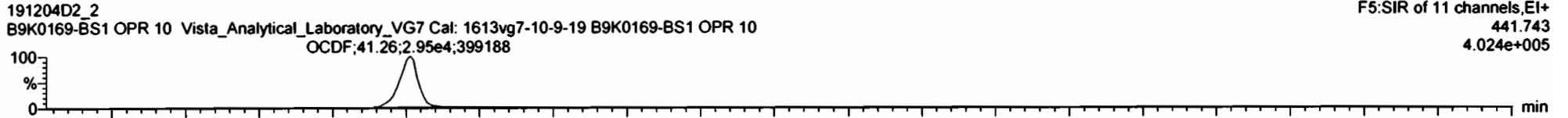
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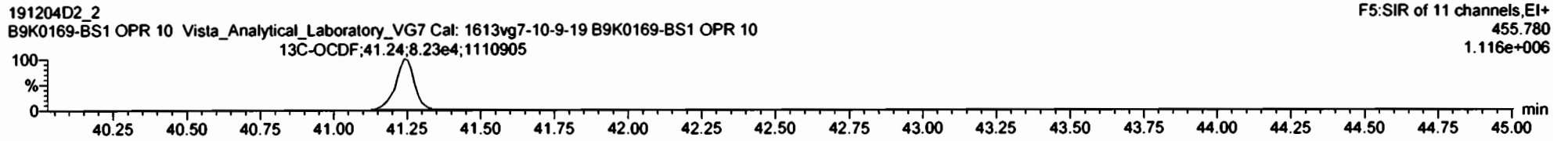
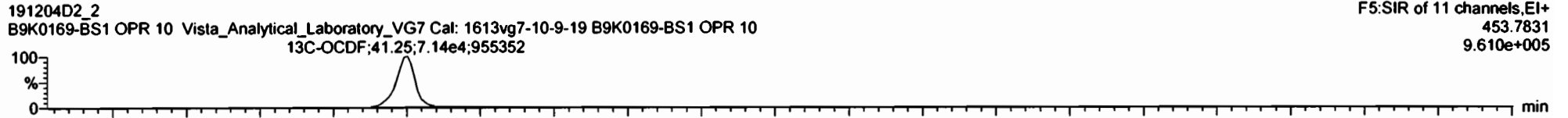
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Name: 191204D2_2, Date: 5-DEC-2019, Time: 08:21:55, ID: B9K0169-BS1 OPR 10, Description: B9K0169-BS1 OPR 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

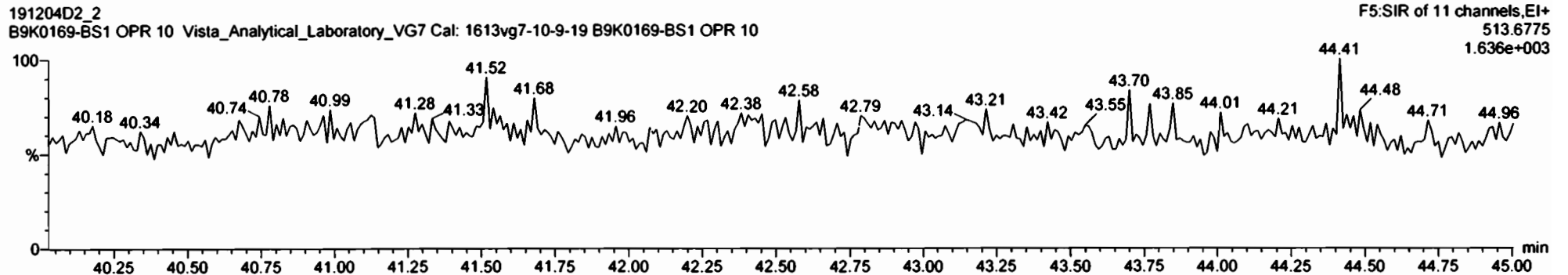
OCDF



13C-OCDF



DPES



Vista Analytical Laboratory

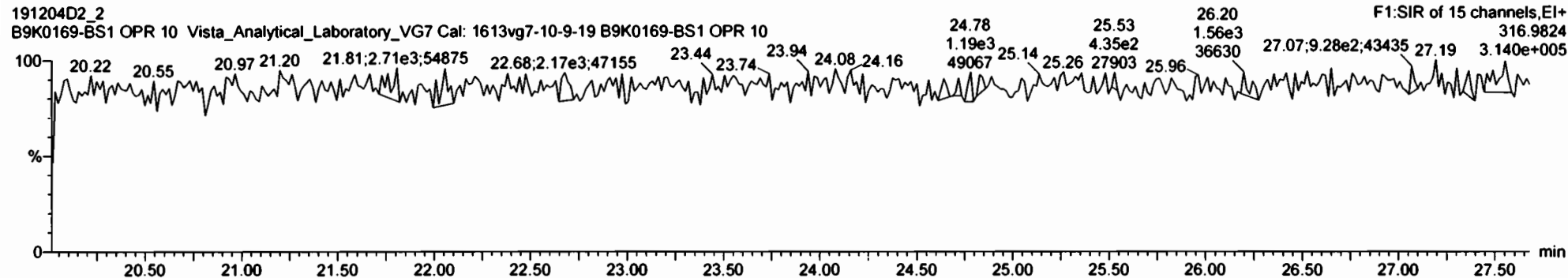
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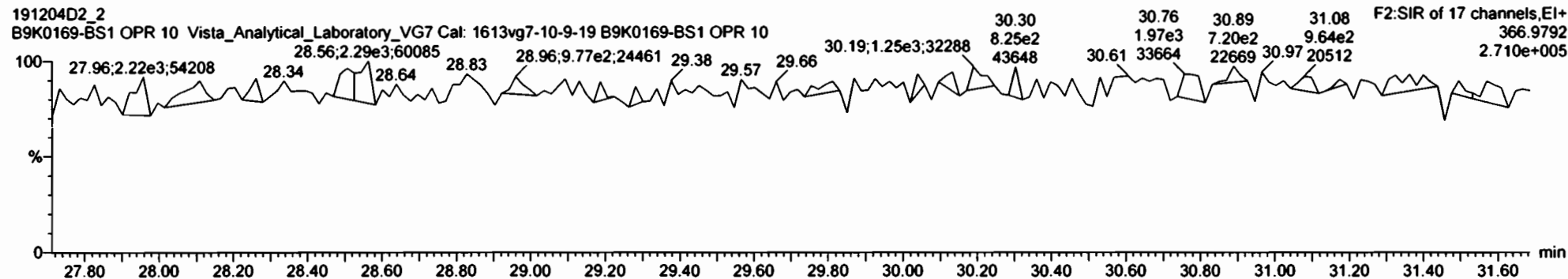
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Name: 191204D2_2, Date: 5-DEC-2019, Time: 08:21:55, ID: B9K0169-BS1 OPR 10, Description: B9K0169-BS1 OPR 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

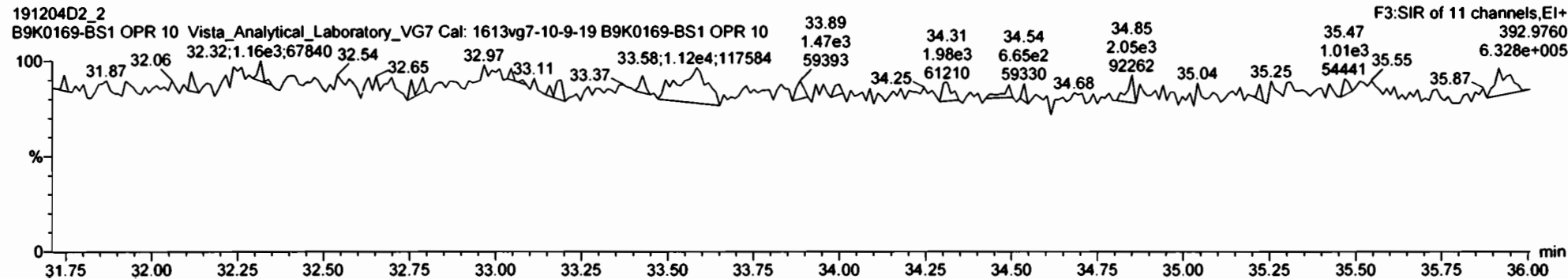
PFK1



PFK2

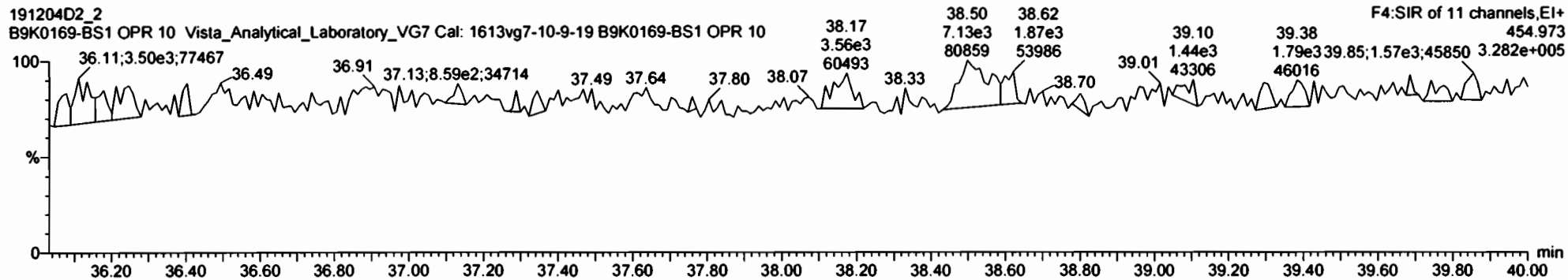


PFK3

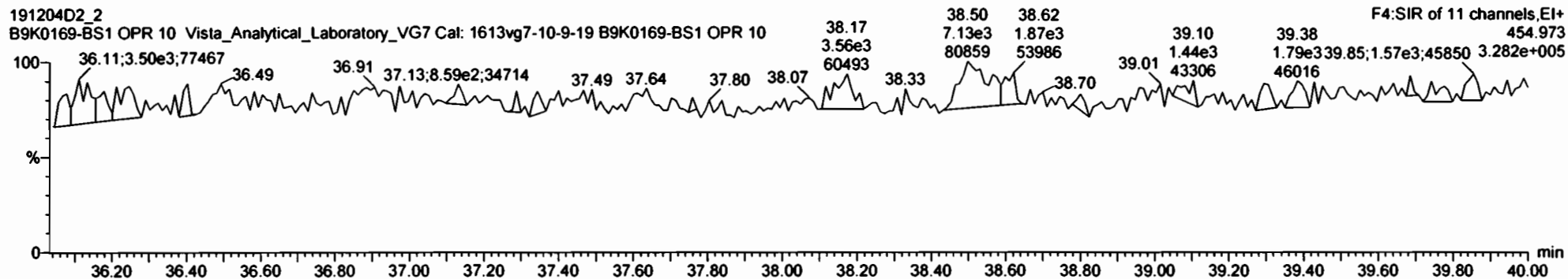


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Description: B9K0169-BS1 OPR 10 Vista_Analytical_Laboratory_VG7 Cal: 1613vg7-10-9-19

PFK4



PFK5



Client ID: Method Blank
Lab ID: B9L0200-BLK1

Filename: 200109D2 S:5 Acq:10-JAN-20 01:54.35
GC Column ID: ZB-5MS ICal: 1613VG7-10-9-19 wt/vol:10.000

ConCal: ST200109D2-1
EndCAL: NA

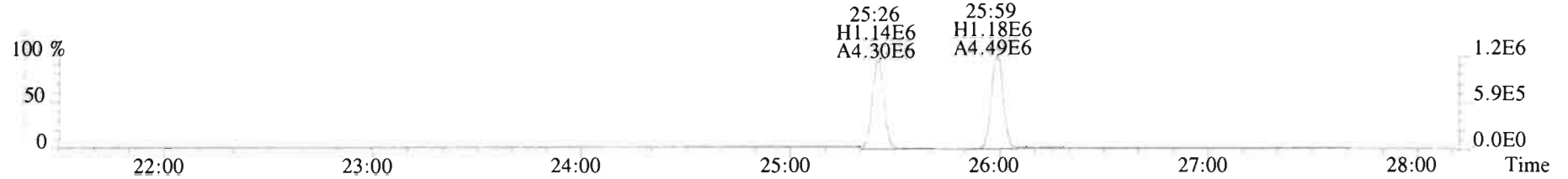
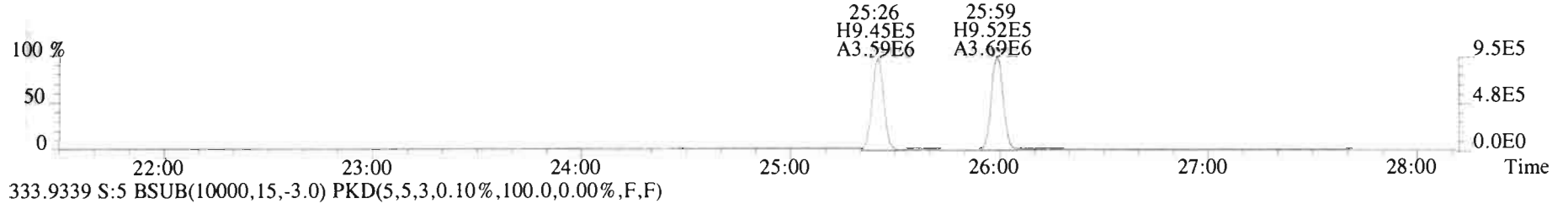
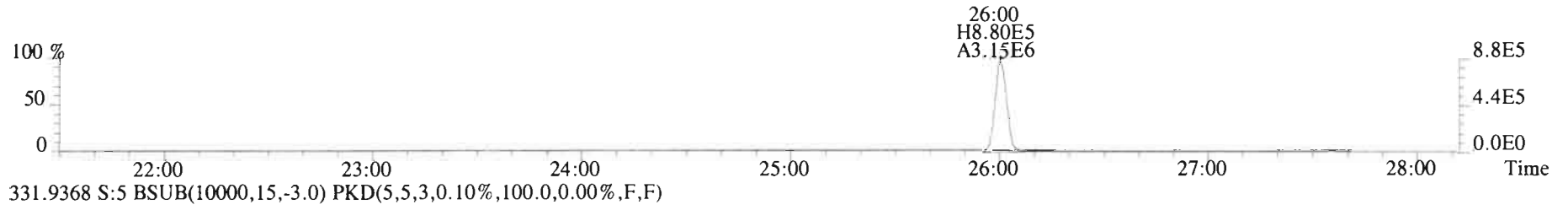
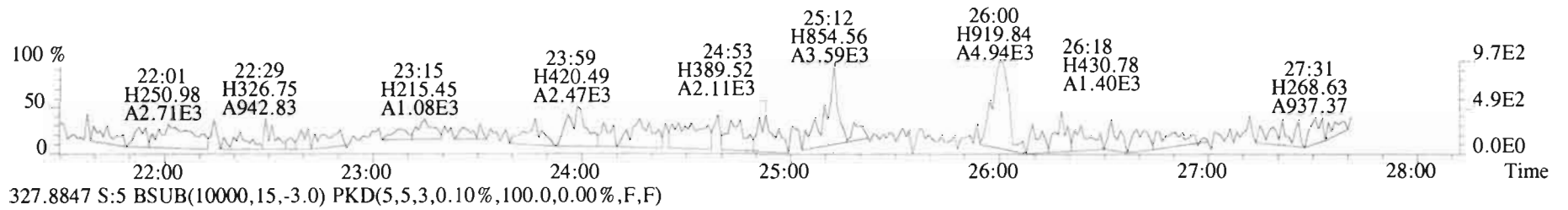
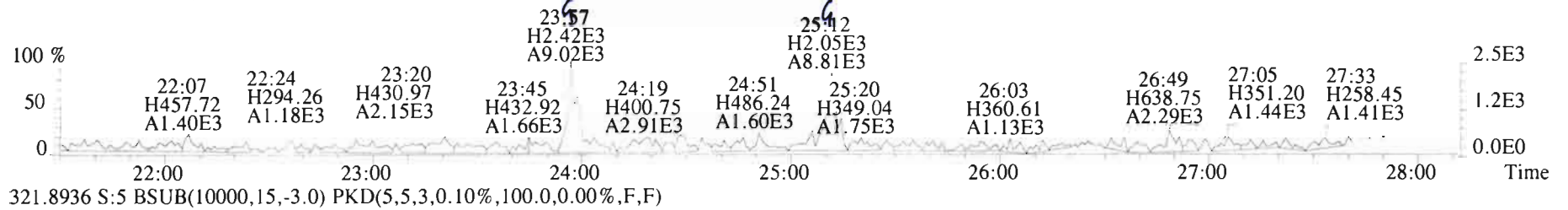
Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL
2,3,7,8-TCDD	*	* n	0.91	Not F ₇	*		117	2.5	0.0552
1,2,3,7,8-PeCDD	*	* n	0.90	Not F ₇	*		144	2.5	0.0603
1,2,3,4,7,8-HxCDD	*	* n	1.10	Not F ₇	*		158	2.5	0.0997
1,2,3,6,7,8-HxCDD	*	* n	0.94	Not F ₇	*		158	2.5	0.111
1,2,3,7,8,9-HxCDD	*	* n	0.96	Not F ₇	*		158	2.5	0.111
1,2,3,4,6,7,8-HpCDD	*	* n	0.98	Not F ₇	*		167	2.5	0.108
OCDD	*	* n	0.96	Not F ₇	*		134	2.5	0.108
2,3,7,8-TCDF	*	* n	0.95	Not F ₇	*		139	2.5	0.0435
1,2,3,7,8-PeCDF	*	* n	0.96	Not F ₇	*		165	2.5	0.0728
2,3,4,7,8-PeCDF	*	* n	1.01	Not F ₇	*		165	2.5	0.0631
1,2,3,4,7,8-HxCDF	*	* n	1.18	Not F ₇	*		175	2.5	0.0454
1,2,3,6,7,8-HxCDF	*	* n	1.07	Not F ₇	*		175	2.5	0.0469
2,3,4,6,7,8-HxCDF	*	* n	1.11	Not F ₇	*		175	2.5	0.0513
1,2,3,7,8,9-HxCDF	*	* n	1.06	Not F ₇	*		175	2.5	0.0761
1,2,3,4,6,7,8-HpCDF	*	* n	1.13	Not F ₇	*		126	2.5	0.0626
1,2,3,4,7,8,9-HpCDF	*	* n	1.28	Not F ₇	*		126	2.5	0.0567
OCDF	*	* n	0.95	Not F ₇	*		132	2.5	0.0930

Name	Conc	EMPC	Qual	noise	DL
Total Tetra-Dioxins	*	*		117	0.0552
Total Penta-Dioxins	*	*		144	0.0603
Total Hexa-Dioxins	*	*		158	0.108
Total Hepta-Dioxins	*	*		167	0.108
Total Tetra-Furans	*	*		139	0.0435
Total Penta-Furans	0.0000	0.0000		165	0.0678
Total Hexa-Furans	*	*		175	0.0542
Total Hepta-Furans	*	*		126	0.0599

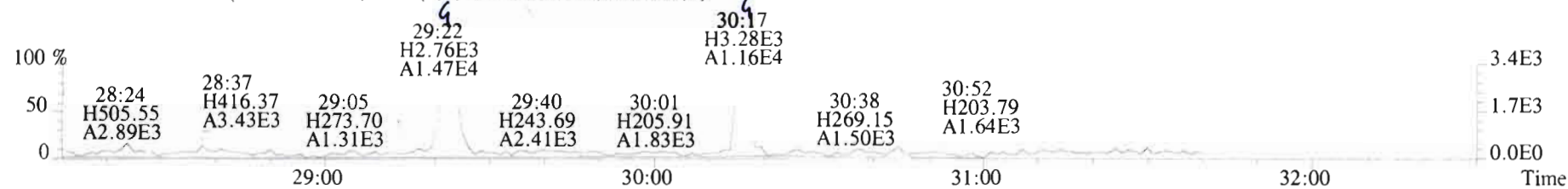
IS	13C-2,3,7,8-TCDD	8.18e+06	0.82 y	1.10	25:59	189.22	94.6
IS	13C-1,2,3,7,8-PeCDD	6.66e+06	0.63 y	0.88	30:34	191.46	95.7
IS	13C-1,2,3,4,7,8-HxCDD	5.99e+06	1.23 y	0.64	33:52	205.87	103
IS	13C-1,2,3,6,7,8-HxCDD	7.03e+06	1.25 y	0.86	33:58	181.21	90.6
IS	13C-1,2,3,7,8,9-HxCDD	6.91e+06	1.26 y	0.81	34:16	188.92	94.5
IS	13C-1,2,3,4,6,7,8-HpCDD	5.75e+06	1.07 y	0.65	37:45	193.83	96.9
IS	13C-OCDD	1.03e+07	0.90 y	0.58	41:01	391.89	98.0
IS	13C-2,3,7,8-TCDF	1.13e+07	0.78 y	1.03	25:12	178.34	89.2
IS	13C-1,2,3,7,8-PeCDF	1.03e+07	1.65 y	0.85	29:23	196.46	98.2
IS	13C-2,3,4,7,8-PeCDF	1.04e+07	1.58 y	0.85	30:17	200.24	100
IS	13C-1,2,3,4,7,8-HxCDF	7.98e+06	0.52 y	0.83	32:59	211.55	106
IS	13C-1,2,3,6,7,8-HxCDF	8.94e+06	0.50 y	1.03	33:06	190.70	95.3
IS	13C-2,3,4,6,7,8-HxCDF	8.37e+06	0.50 y	0.95	33:42	193.76	96.9
IS	13C-1,2,3,7,8,9-HxCDF	7.64e+06	0.51 y	0.83	34:39	203.59	102
IS	13C-1,2,3,4,6,7,8-HpCDF	6.16e+06	0.45 y	0.76	36:29	179.46	89.7
IS	13C-1,2,3,4,7,8,9-HpCDF	5.14e+06	0.44 y	0.58	38:18	194.95	97.5
IS	13C-OCDF	1.26e+07	0.87 y	0.69	41:13	403.59	101
C/Up	37C1-2,3,7,8-TCDD	3.15e+06		1.20	26:01	66.547	83.2
RS/RT	13C-1,2,3,4-TCDD	7.89e+06	0.83 y	1.00	25:25	200.00	
RS	13C-1,2,3,4-TCDF	1.23e+07	0.81 y	1.00	23:58	200.00	
RS/RT	13C-1,2,3,4,6,9-HxCDF	9.07e+06	0.51 y	1.00	33:24	200.00	

Rec Qual
Integrations Reviewed
by Analyst: DB by Analyst: CT
Date: 1/10/20 Date: 01/17/2020

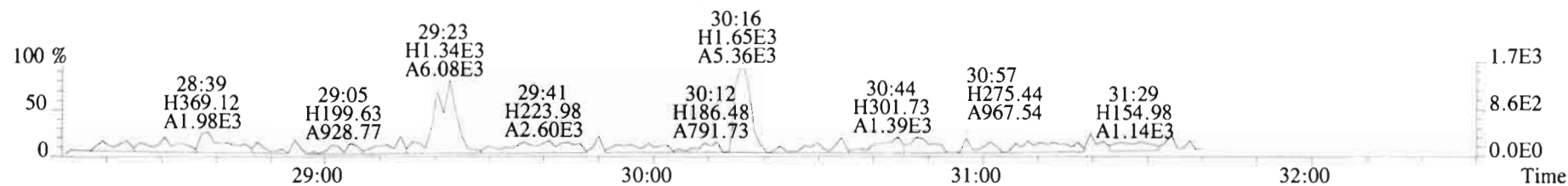
File:200109D2 #1-493 Acq:10-JAN-2020 01:54:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text: Vista_Analytical_Laboratory_VG7 Text:B9L0200-BLK1 Method Blank 10 Exp:OCDD_DB5
319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



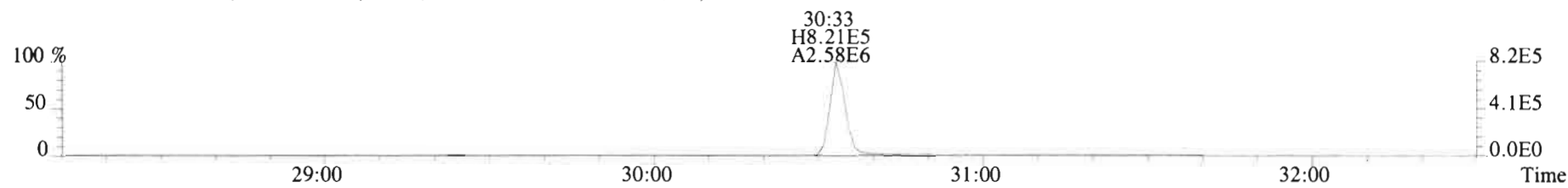
File:200109D2 #1-210 Acq:10-JAN-2020 01:54:35 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 File Text:Vista_Analytical_Laboratory_VG7 Text:B9L0200-BLK1 Method Blank 10 Exp:OCDD_DB5
 353.8576 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



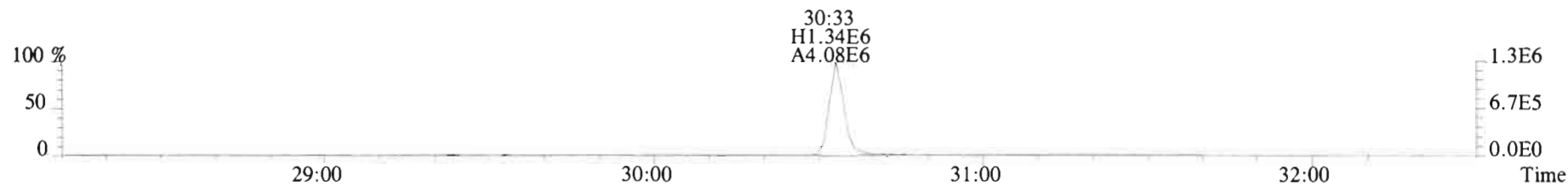
355.8546 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



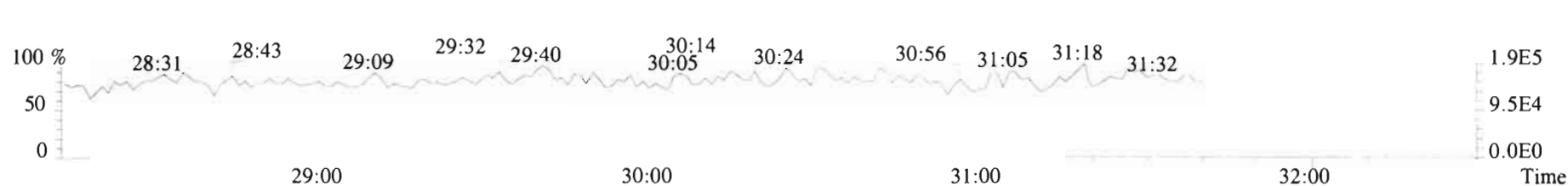
365.8978 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



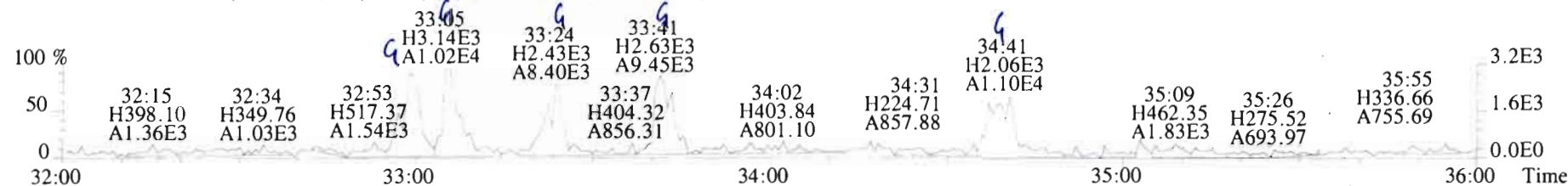
367.8949 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



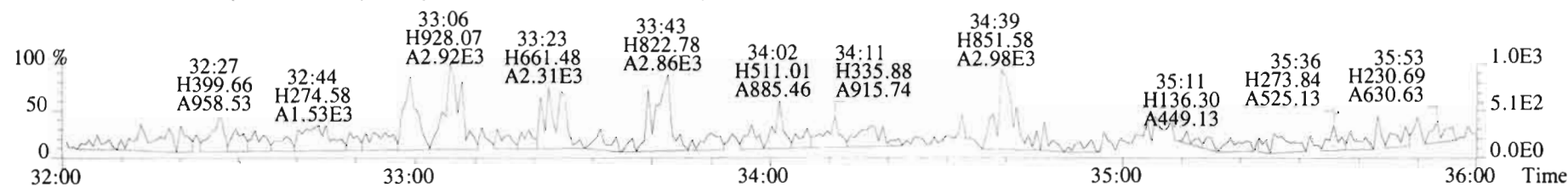
366.9792 S:5 F:2



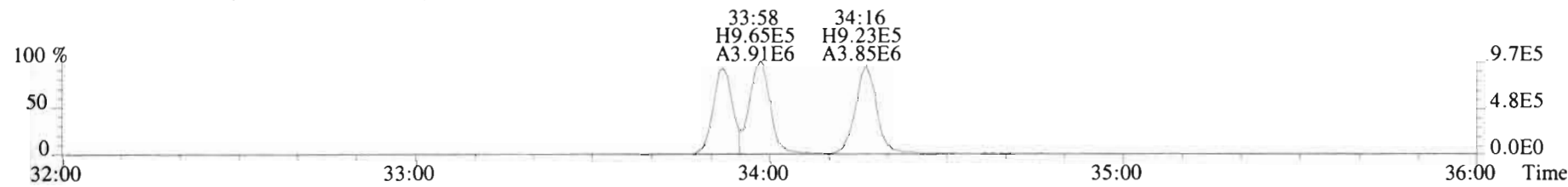
File:200109D2 #1-386 Acq:10-JAN-2020 01:54:35 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 File Text:Vista_Analytical_Laboratory_VG7 Text:B9L0200-BLK1 Method Blank 10 Exp:OCDD_DB5
 389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



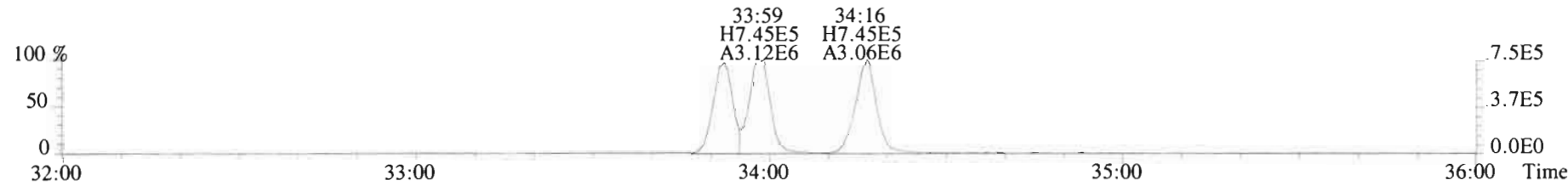
391.8127 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



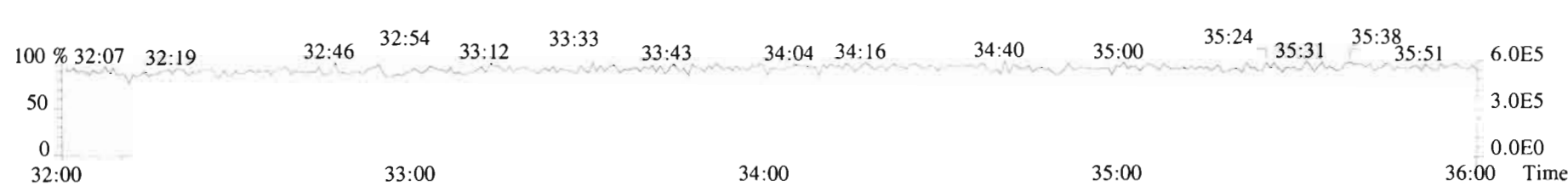
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



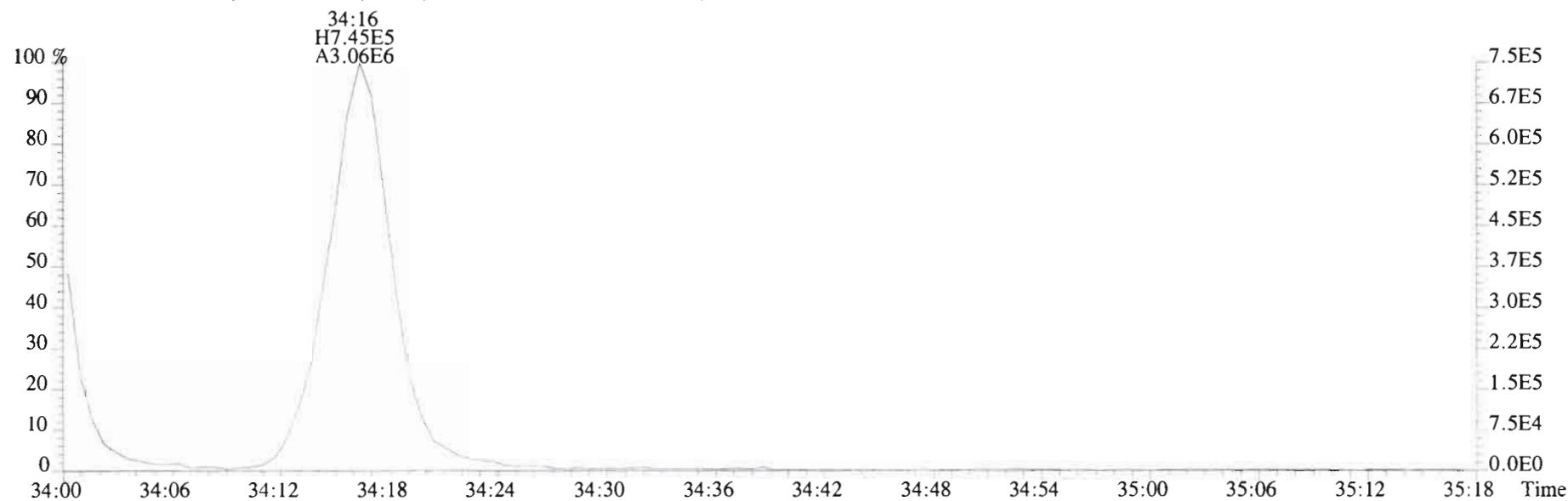
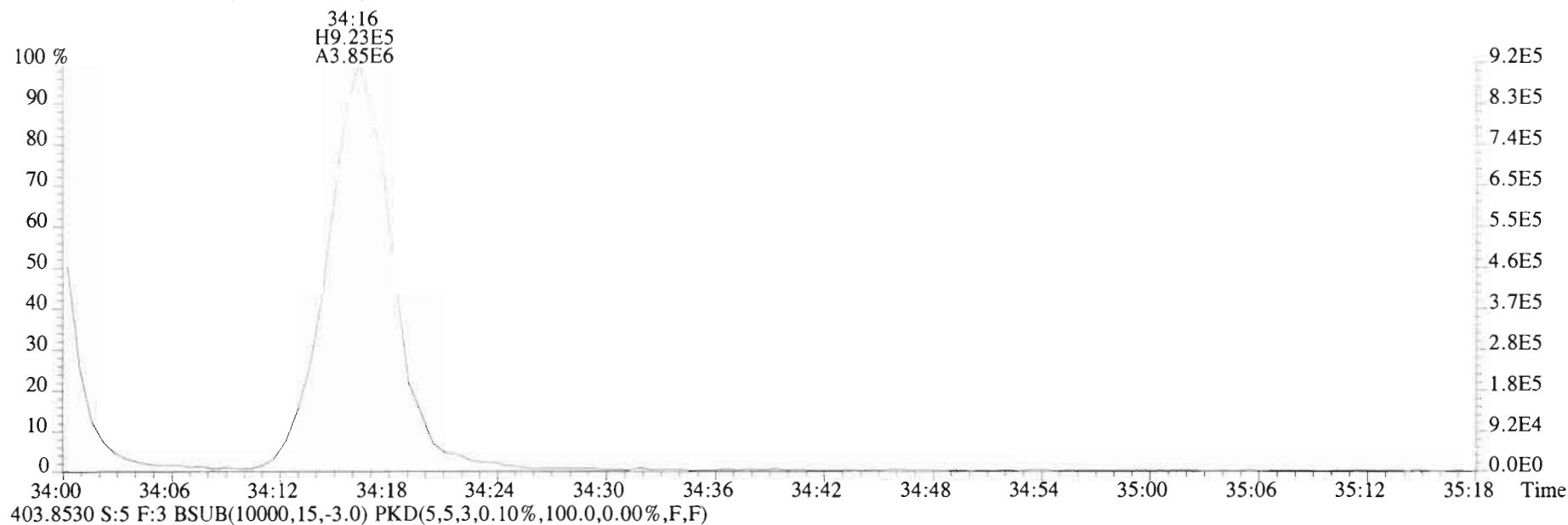
403.8530 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



392.9760 S:5 F:3



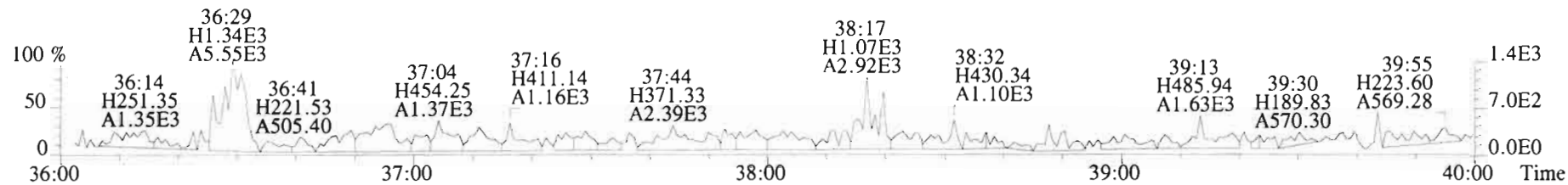
File:200109D2 #1-386 Acq:10-JAN-2020 01:54:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG7 Text:B9L0200-BLK1 Method Blank 10 Exp:OCDD_DB5
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F)



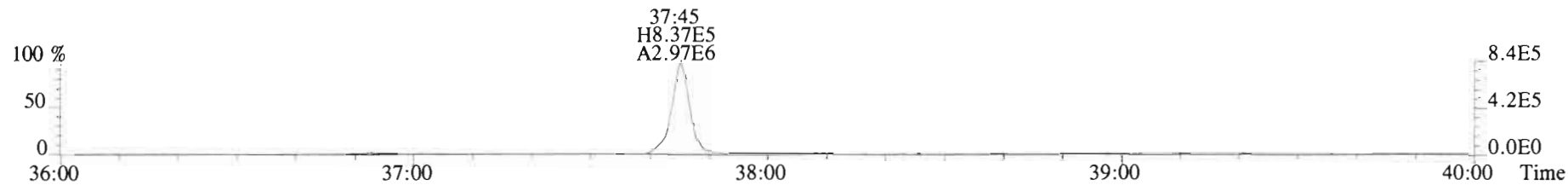
File:200109D2 #1-355 Acq:10-JAN-2020 01:54:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory_VG7 Text:B9L0200-BLK1 Method Blank 10 Exp:OCDD_DB5
423.7767 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



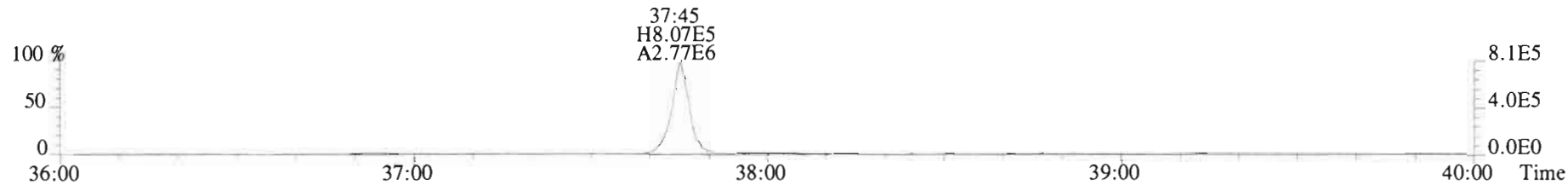
425.7737 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



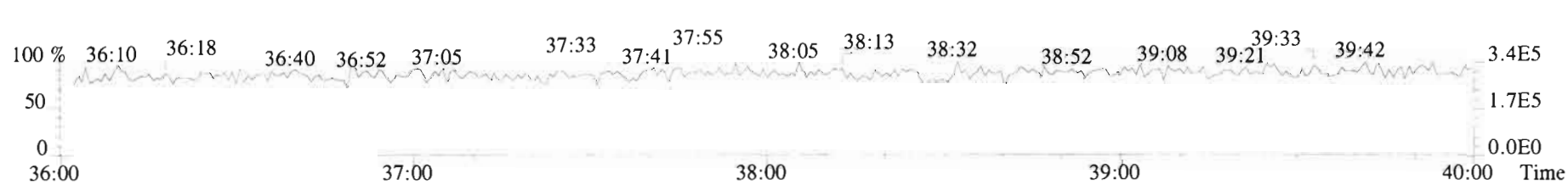
435.8169 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



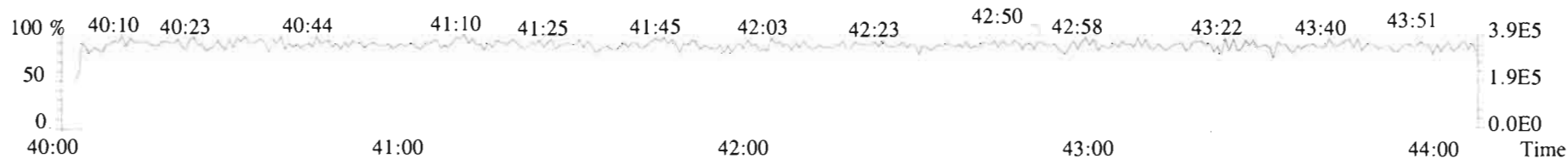
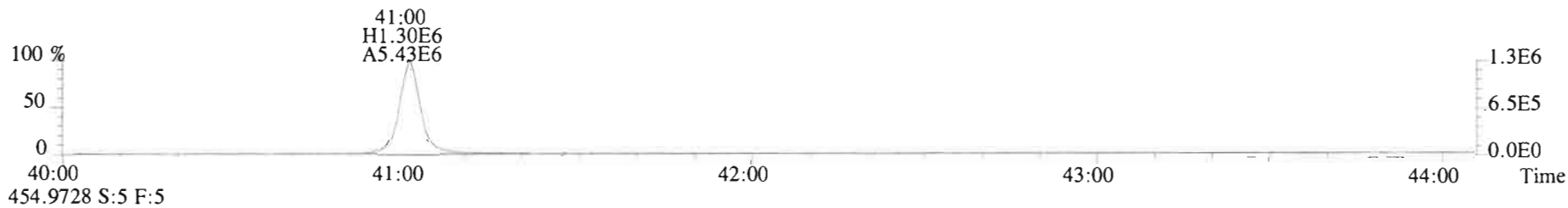
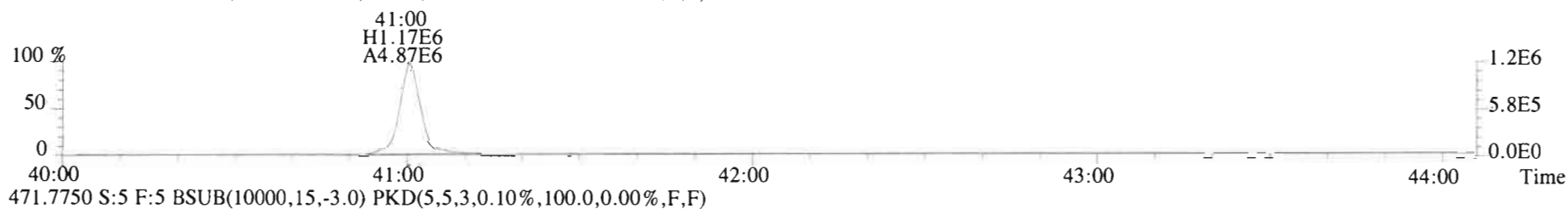
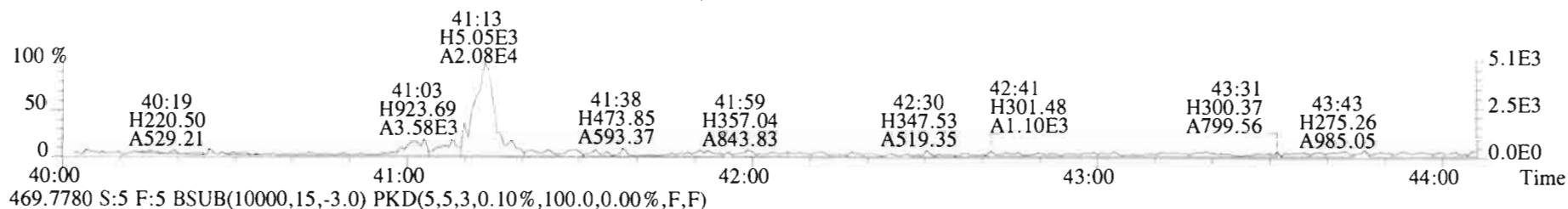
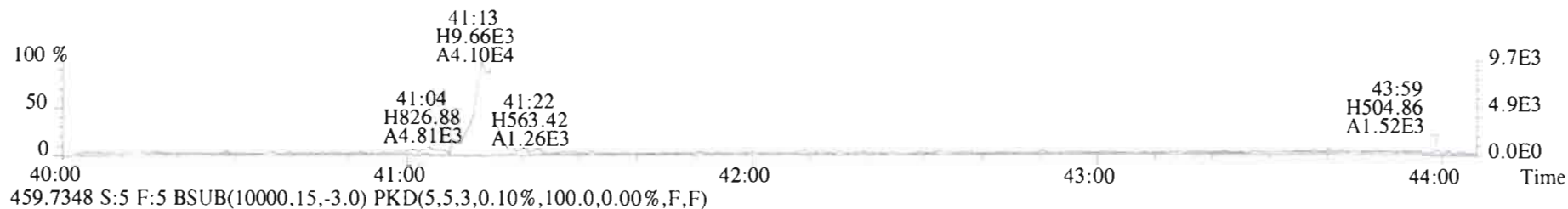
437.8140 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



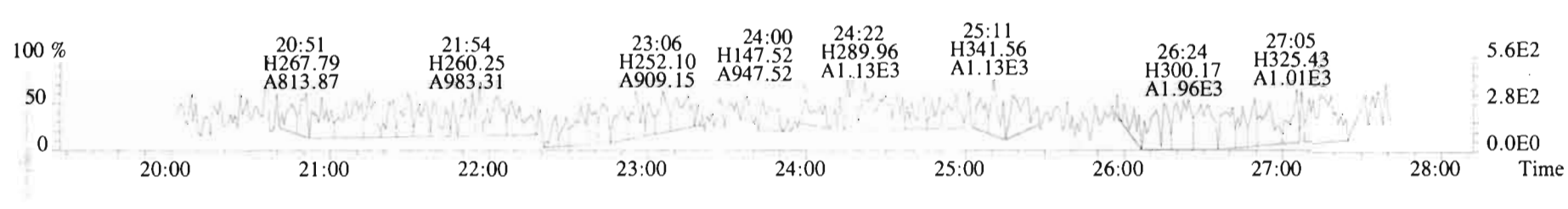
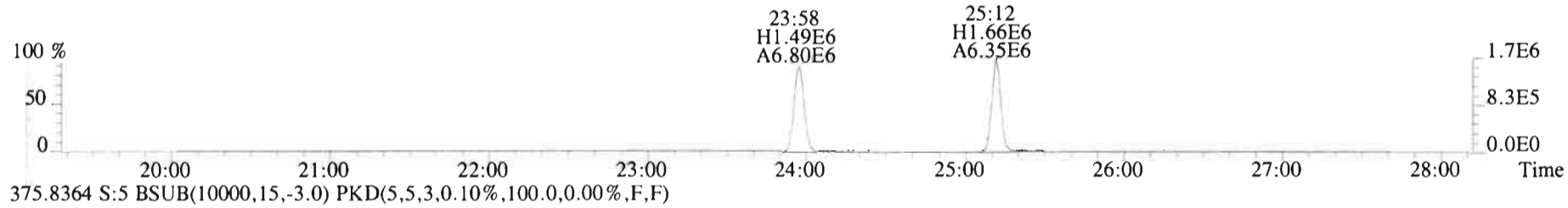
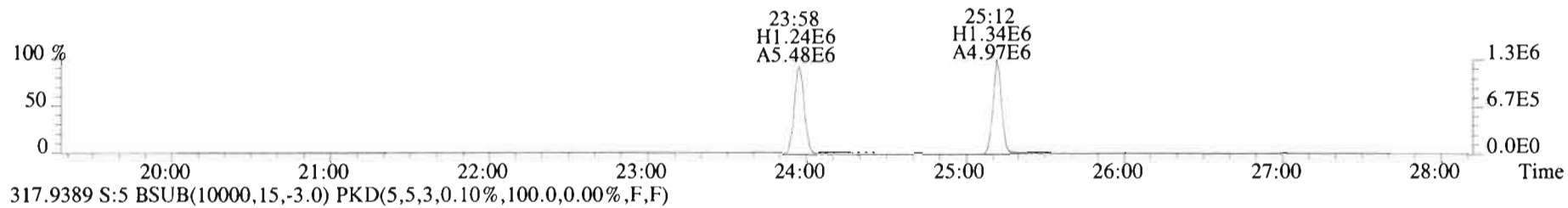
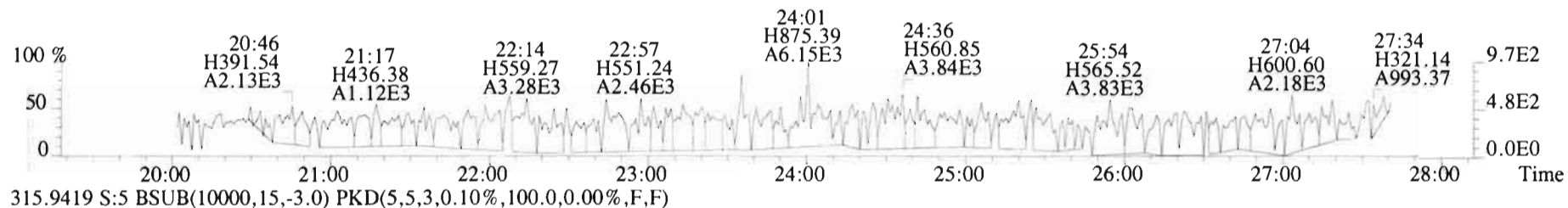
454.9728 S:5 F:4



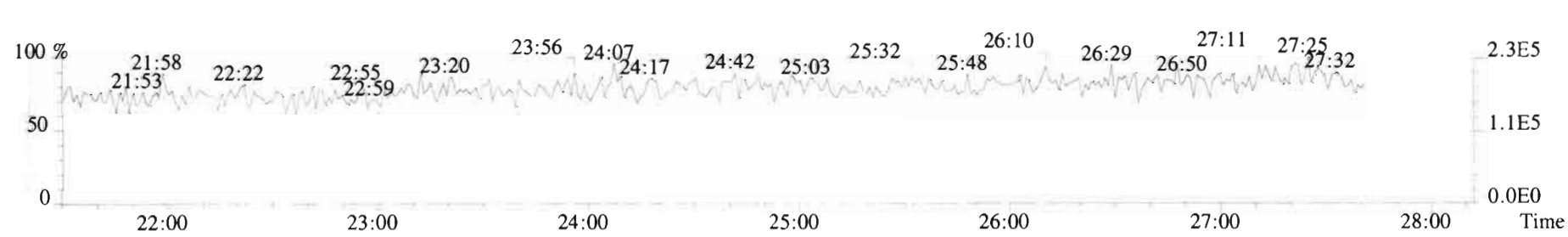
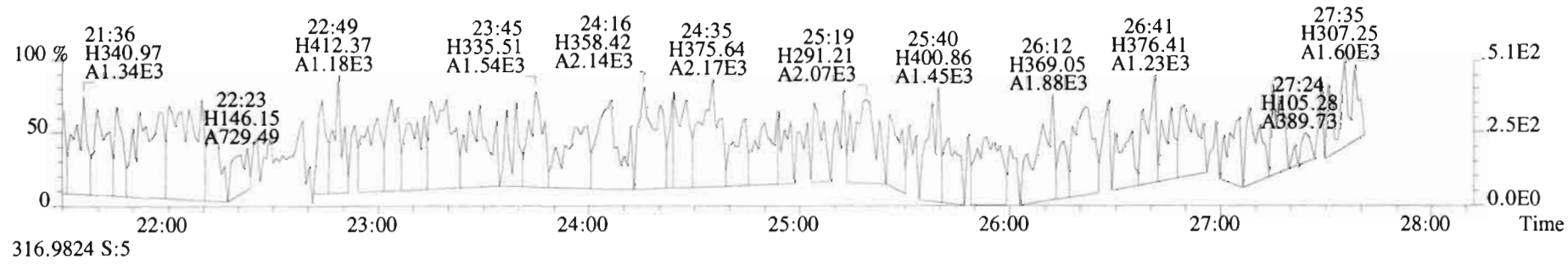
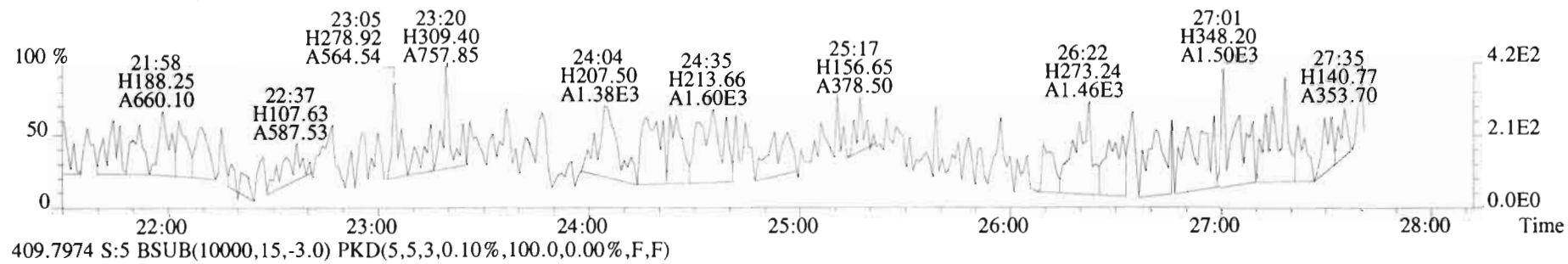
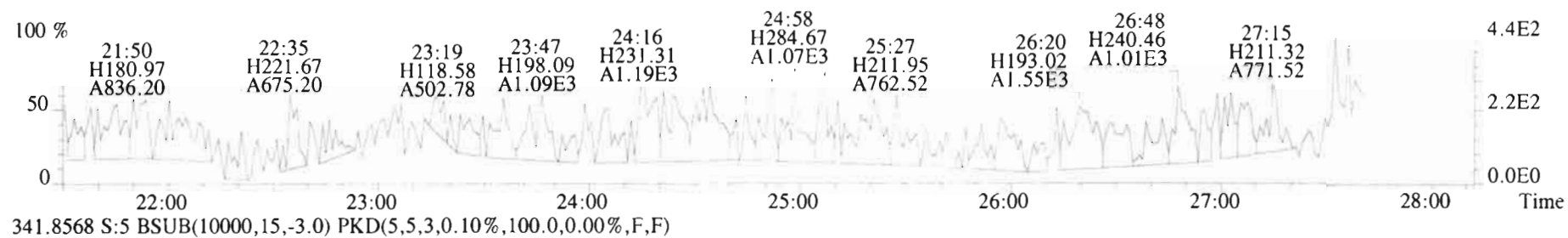
File:200109D2 #1-432 Acq:10-JAN-2020 01:54:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista_Analytical_Laboratory_VG7 Text:B9L0200-BLK1 Method Blank 10 Exp:OCDD_DB5
457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F)



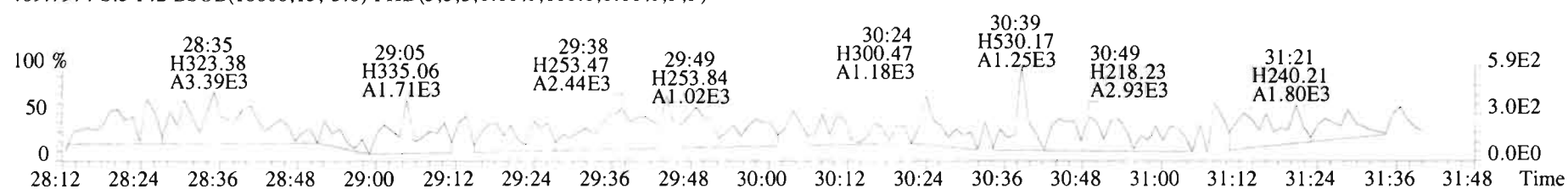
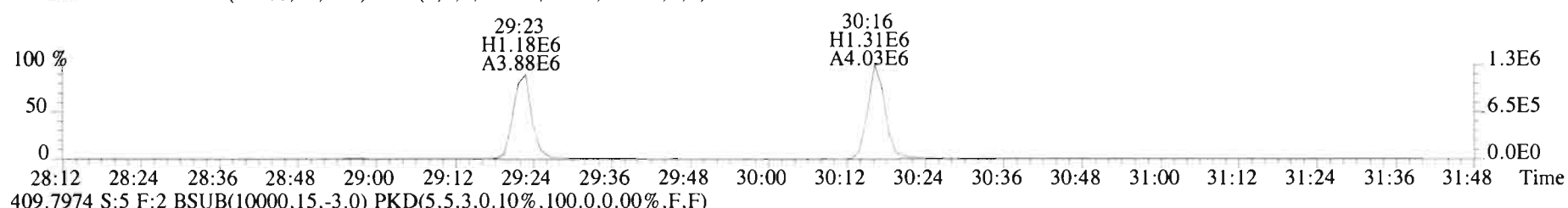
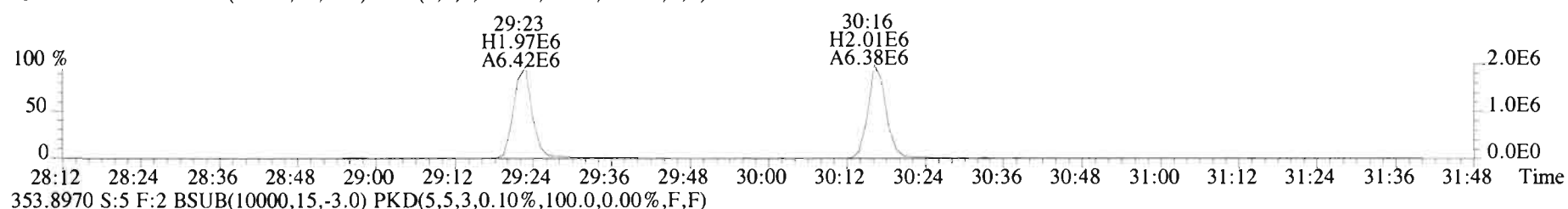
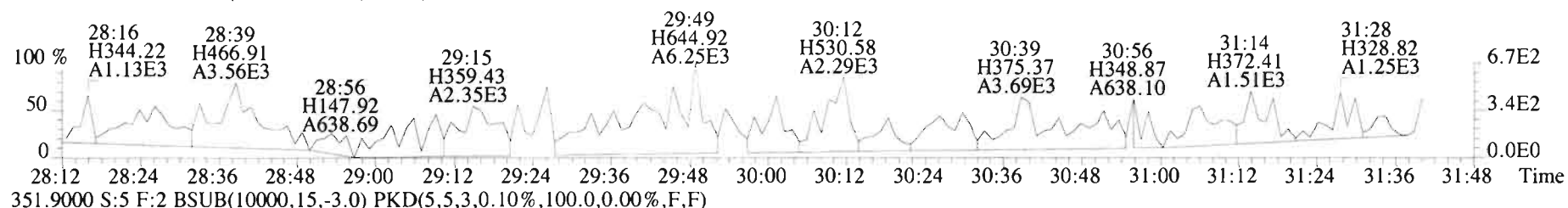
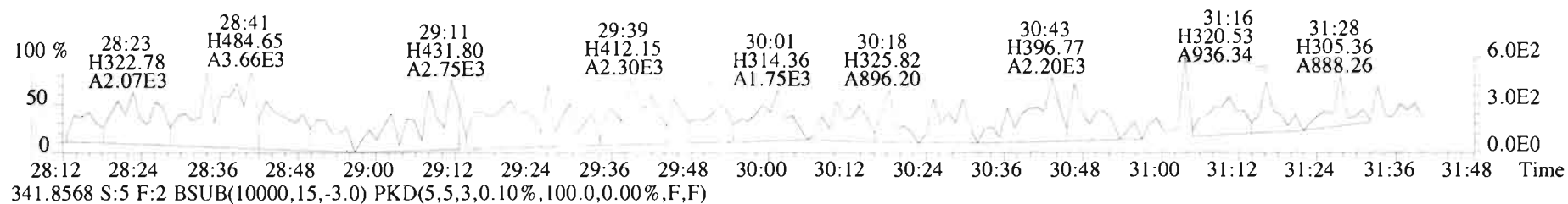
File:200109D2 #1-493 Acq:10-JAN-2020 01:54:35 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 File Text:Vista_Analytical_Laboratory_VG7 Text:B9L0200-BLK1 Method Blank 10 Exp:OCDD_DB5
 303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



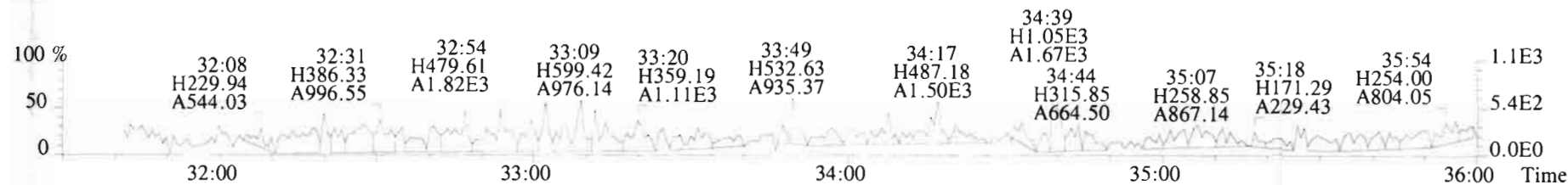
File:200109D2 #1-493 Acq:10-JAN-2020 01:54:35 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 File Text:Vista Analytical Laboratory VG7 Text:B9L0200-BLK1 Method Blank 10 Exp:OCDD_DB5
 339.8597 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



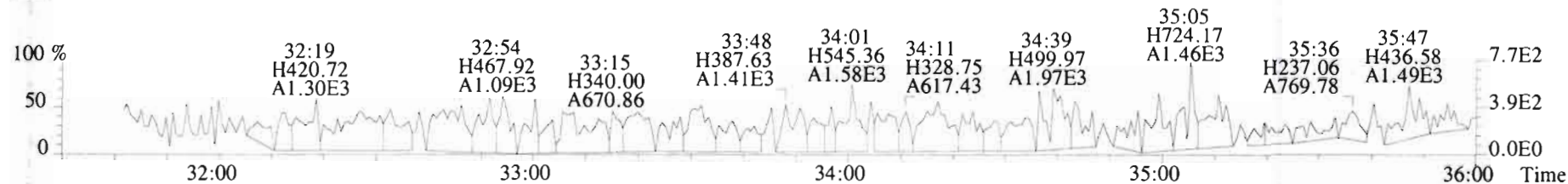
File:200109D2 #1-210 Acq:10-JAN-2020 01:54:35 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 File Text:Vista_Analytical_Laboratory_VG7 Text:B9L0200-BLK1 Method Blank 10 Exp:OCDD_DB5
 339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



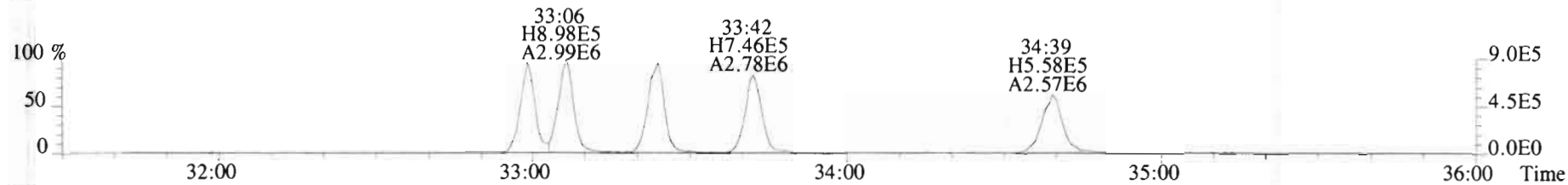
File:200109D2 #1-386 Acq:10-JAN-2020 01:54:35 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 File Text:Vista Analytical Laboratory VG7 Text:B9L0200-BLK1 Method Blank 10 Exp:OCDD_DB5
 373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



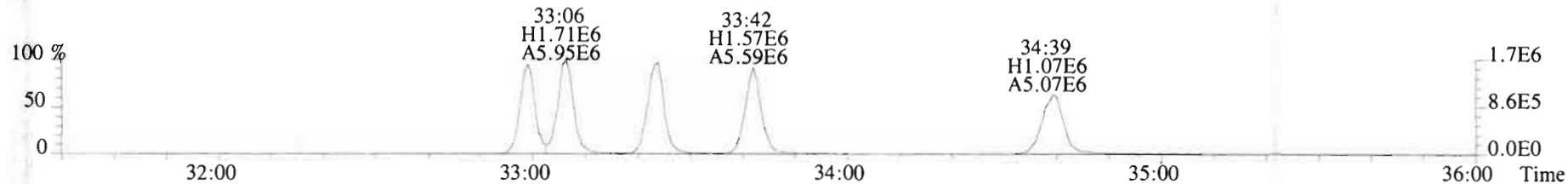
375.8178 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



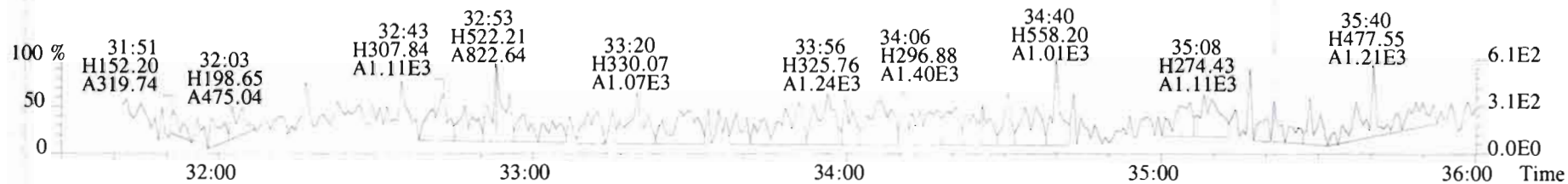
383.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



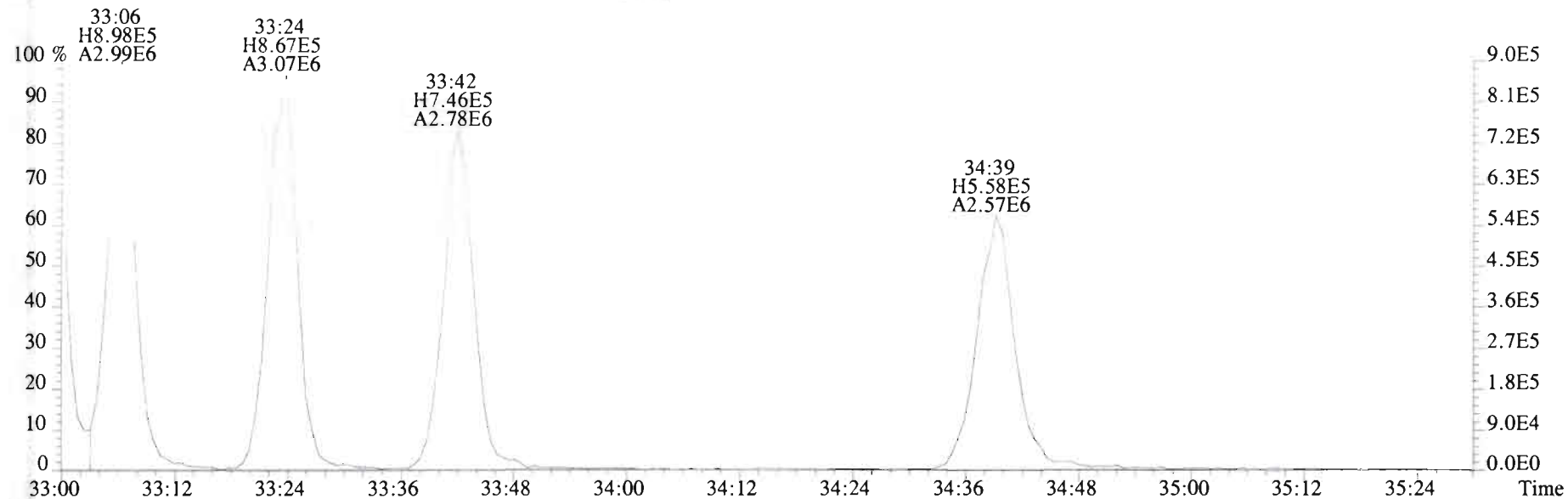
385.8610 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



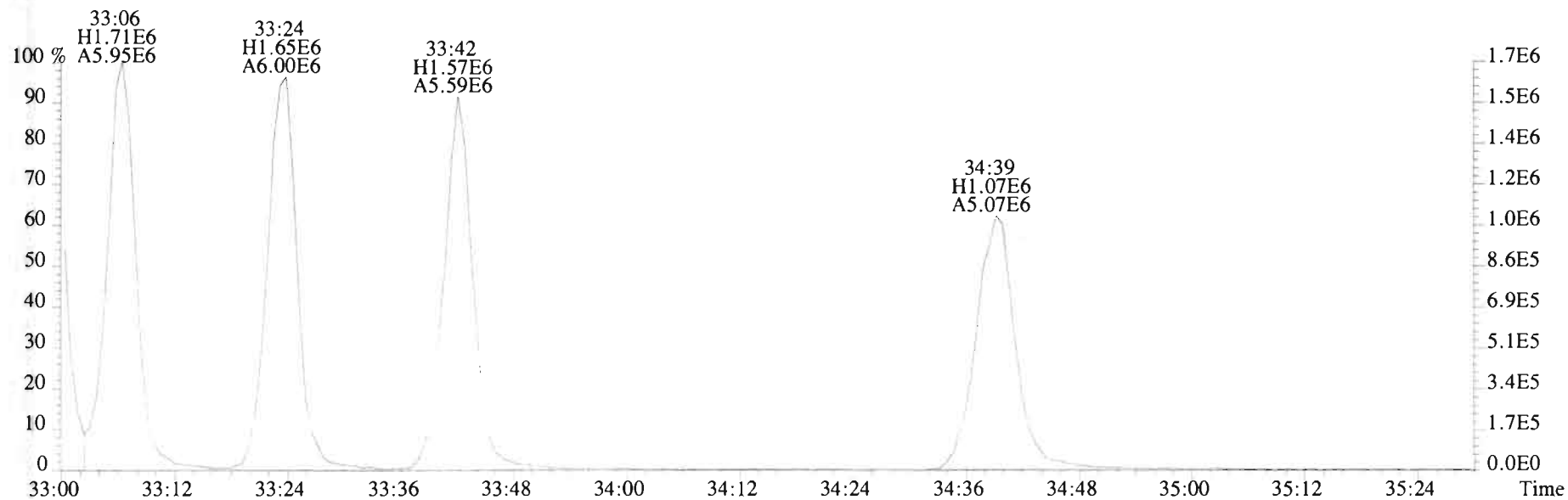
445.7555 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:200109D2 #1-386 Acq:10-JAN-2020 01:54:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista_Analytical_Laboratory_VG7 Text:B9L0200-BLK1 Method Blank 10 Exp:OCDD_DB5
383.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F)



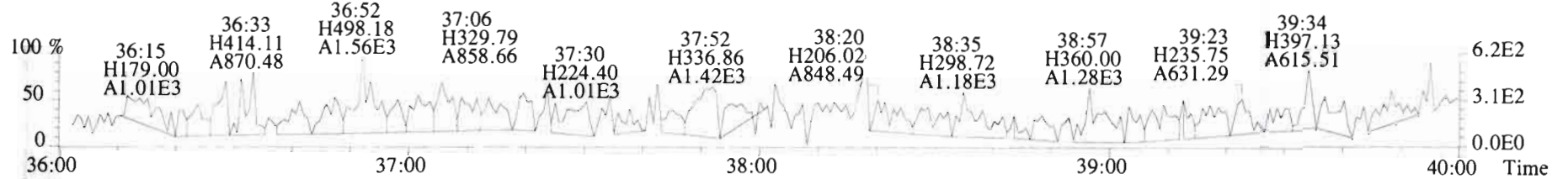
385.8610 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F)



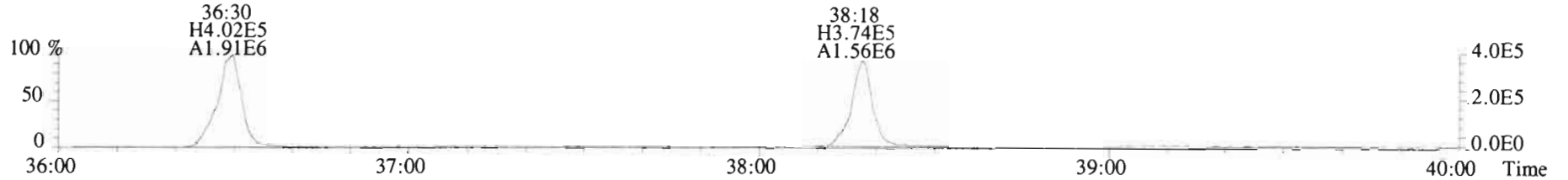
File:200109D2 #1-355 Acq:10-JAN-2020 01:54:35 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista_Analytical_Laboratory_VG7 Text:B9L0200-BLK1 Method Blank 10 Exp:OCDD_DB5
407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



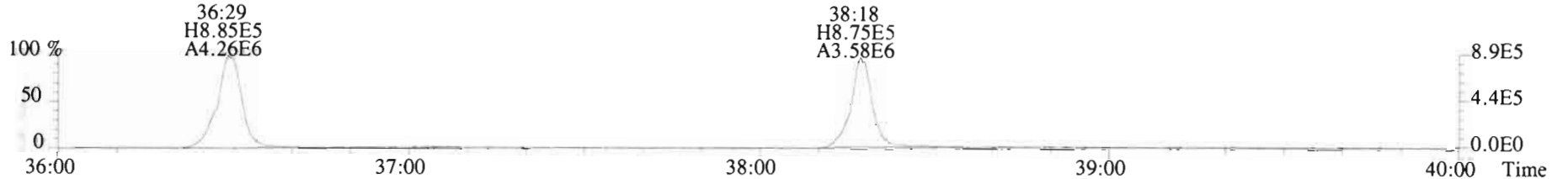
409.7788 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



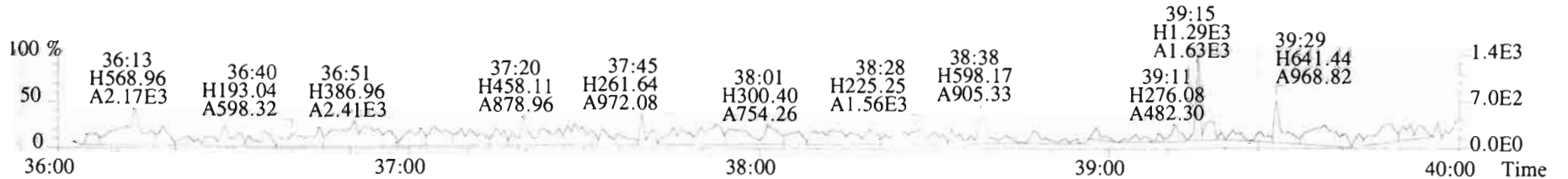
417.8253 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



419.8220 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



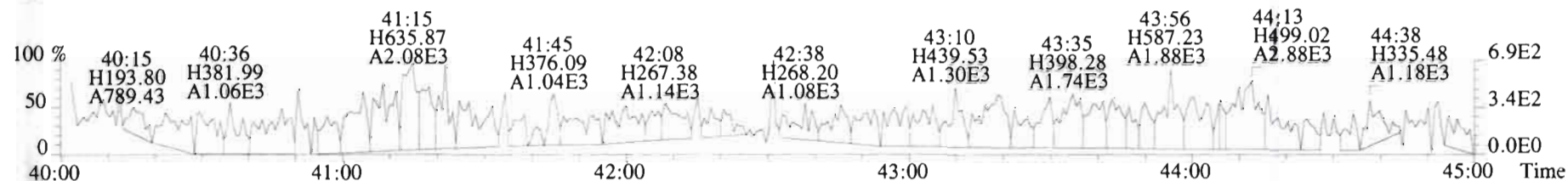
479.7165 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:200109D2 #1-432 Acq:10-JAN-2020 01:54:35 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 File Text:Vista_Analytical_Laboratory_VG7 Text:B9L0200-BLK1 Method Blank 10 Exp:OCDD_DB5
 441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



443.7398 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



453.7831 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



513.6775 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



FORM 8A
PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Vista Analytical Laboratory Extraction Batch: B9L0200-BS1
Contract No.: SAS No.:
Matrix (aqueous/solid/leachate): SOLID OPR Data Filename: 200109D2-2
Ext. Date: Shift: Day Analysis Date: 9-JAN-20 Time: 23:30:46

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

NATIVE ANALYTES	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (1) (ng/mL)
2,3,7,8-TCDD	10	10.5	6.7 - 15.8 7.3 - 14.6 (2)
1,2,3,7,8-PeCDD	50	53.5	35.0 - 71.0
1,2,3,4,7,8-HxCDD	50	50.2	35.0 - 82.0
1,2,3,6,7,8-HxCDD	50	50.3	38.0 - 67.0
1,2,3,7,8,9-HxCDD	50	50.9	32.0 - 81.0
1,2,3,4,6,7,8-HpCDD	50	47.0	35.0 - 70.0
OCDD	100	98.5	78.0 - 144.0
2,3,7,8-TCDF	10	9.50	7.5 - 15.8 8.0 - 14.7 (2)
1,2,3,7,8-PeCDF	50	52.6	40.0 - 67.0
2,3,4,7,8-PeCDF	50	51.7	34.0 - 80.0
1,2,3,4,7,8-HxCDF	50	44.6	36.0 - 67.0
1,2,3,6,7,8-HxCDF	50	44.3	42.0 - 65.0
2,3,4,6,7,8-HxCDF	50	45.5	35.0 - 78.0
1,2,3,7,8,9-HxCDF	50	45.0	39.0 - 65.0
1,2,3,4,6,7,8-HpCDF	50	43.4	41.0 - 61.0
1,2,3,4,7,8,9-HpCDF	50	42.3	39.0 - 69.0
OCDF	100	87.4	63.0 - 170.0

(1) Contract-required concentration limits for OPR
as specified in Table 6, Method 1613. 10/94

(2) Contract-required concentration limits for OPR
as specified in Table 6a, Method 1613. 10/94

Analyst: DB

Date: 1/10/20

FORM 8B
PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Vista Analytical Laboratory Extraction Batch: B9L0200-BS1

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): SOLID OPR Data Filename: 200109D2-2

Ext. Date: Shift: Day Analysis Date: 9-JAN-20 Time: 23:30:46

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

LABELED COMPOUNDS	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (1) (ng/mL)
13C-2,3,7,8-TCDD	100	90.4	20.0 - 175.0 25.0 - 141.0 (2)
13C-1,2,3,7,8-PeCDD	100	95.6	21.0 - 227.0
13C-1,2,3,4,7,8-HxCDD	100	99.3	21.0 - 193.0
13C-1,2,3,6,7,8-HxCDD	100	87.6	25.0 - 163.0
13C-1,2,3,7,8,9-HxCDD	100	90.9	21.0 - 193.0
13C-1,2,3,4,6,7,8-HpCDD	100	103	26.0 - 166.0
13C-OCDD	200	194	26.0 - 397.0
13C-2,3,7,8-TCDF	100	86.0	22.0 - 152.0 26.0 - 126.0 (2)
13C-1,2,3,7,8-PeCDF	100	91.4	21.0 - 192.0
13C-2,3,4,7,8-PeCDF	100	95.0	13.0 - 328.0
13C-1,2,3,4,7,8-HxCDF	100	101	19.0 - 202.0
13C-1,2,3,6,7,8-HxCDF	100	93.7	21.0 - 159.0
13C-2,3,4,6,7,8-HxCDF	100	94.2	22.0 - 176.0
13C-1,2,3,7,8,9-HxCDF	100	100	17.0 - 205.0
13C-1,2,3,4,6,7,8-HpCDF	100	91.5	21.0 - 158.0
13C-1,2,3,4,7,8,9-HpCDF	100	101	20.0 - 186.0
13C-OCDF	200	201	26.0 - 397.0
CLEANUP STANDARD			
37Cl-2,3,7,8-TCDD	40	32.5	12.4 - 76.4

(1) Contract-required concentration limits for OPR
as specified in Table 6, Method 1613. 10/94

(2) Contract-required concentration limits for OPR
as specified in Table 6a, Method 1613. 10/94

Analyst: DB

Date: 1/10/20

Client ID: OPR
Lab ID: B9L0200-BS1

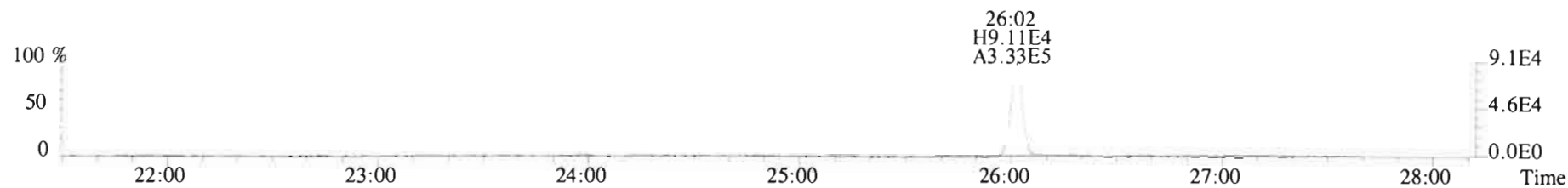
Filename: 200109D2 S:2 Acq: 9-JAN-20 23:30:46
GC Column ID: ZB-5MS 1Cal: 1613VG7-10-9-19 wt/vol: 1.000

ConCal: ST200109D2-1
EndCAL: NA

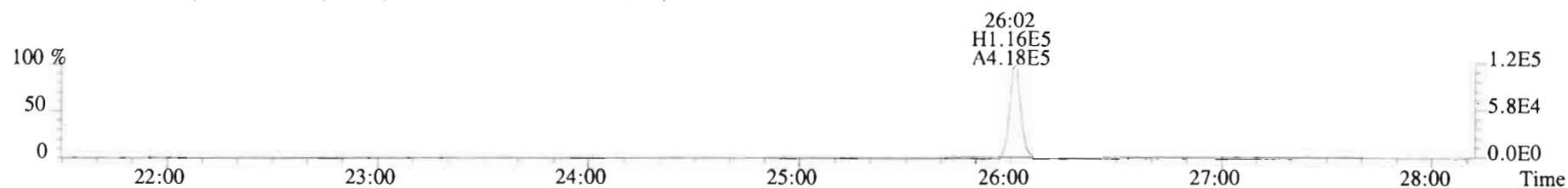
Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	7.51e+05	0.80 y	0.91	26:02	10.457		* 2.5		*	Total Tetra-Dioxins	10.5	11.7		*	*
1,2,3,7,8-PeCDD	3.26e+06	0.61 y	0.90	30:35	53.543		* 2.5		*	Total Penta-Dioxins	53.6	54.1		*	*
1,2,3,4,7,8-HxCDD	3.54e+06	1.24 y	1.10	33:54	50.202		* 2.5		*	Total Hexa-Dioxins	151	152		*	*
1,2,3,6,7,8-HxCDD	3.55e+06	1.25 y	0.94	34:00	50.253		* 2.5		*	Total Hepta-Dioxins	47.8	48.1		*	*
1,2,3,7,8,9-HxCDD	3.60e+06	1.22 y	0.96	34:18	50.875		* 2.5		*	Total Tetra-Furans	9.86	11.5		*	*
1,2,3,4,6,7,8-HpCDD	3.11e+06	1.03 y	0.98	37:47	46.978		* 2.5		*	Total Penta-Furans	105.22	106.11		*	*
OCDD	5.34e+06	0.89 y	0.96	41:02	98.496		* 2.5		*	Total Hexa-Furans	180	181		*	*
										Total Hepta-Furans	86.3	87.7		*	*
2,3,7,8-TCDF	9.93e+05	0.77 y	0.95	25:14	9.4991		* 2.5		*						
1,2,3,7,8-PeCDF	4.87e+06	1.51 y	0.96	29:24	52.570		* 2.5		*						
2,3,4,7,8-PeCDF	5.22e+06	1.47 y	1.01	30:18	51.673		* 2.5		*						
1,2,3,4,7,8-HxCDF	4.42e+06	1.24 y	1.18	33:00	44.634		* 2.5		*						
1,2,3,6,7,8-HxCDF	4.61e+06	1.18 y	1.07	33:08	44.330		* 2.5		*						
2,3,4,6,7,8-HxCDF	4.57e+06	1.24 y	1.11	33:44	45.477		* 2.5		*						
1,2,3,7,8,9-HxCDF	3.99e+06	1.22 y	1.06	34:41	45.030		* 2.5		*						
1,2,3,4,6,7,8-HpCDF	3.41e+06	1.02 y	1.13	36:31	43.377		* 2.5		*						
1,2,3,4,7,8,9-HpCDF	3.19e+06	1.03 y	1.28	38:19	42.286		* 2.5		*						
OCDF	5.76e+06	0.86 y	0.95	41:15	87.426		* 2.5		*						
IS	13C-2,3,7,8-TCDD	7.94e+06	0.81 y	1.10	26:00	90.437				Rec	90.4				
IS	13C-1,2,3,7,8-PeCDD	6.75e+06	0.64 y	0.88	30:34	95.585				Qual	95.6				
IS	13C-1,2,3,4,7,8-HxCDD	6.41e+06	1.27 y	0.64	33:53	99.349					99.3				
IS	13C-1,2,3,6,7,8-HxCDD	7.53e+06	1.27 y	0.86	33:59	87.609					87.6				
IS	13C-1,2,3,7,8,9-HxCDD	7.37e+06	1.26 y	0.81	34:17	90.930					90.9				
IS	13C-1,2,3,4,6,7,8-HpCDD	6.77e+06	1.03 y	0.65	37:46	103.01					103				
IS	13C-OCDD	1.13e+07	0.90 y	0.58	41:01	194.10					97.1				
IS	13C-2,3,7,8-TCDF	1.10e+07	0.79 y	1.03	25:13	85.980					86.0				
IS	13C-1,2,3,7,8-PeCDF	9.65e+06	1.61 y	0.85	29:23	91.371					91.4				
IS	13C-2,3,4,7,8-PeCDF	9.95e+06	1.56 y	0.85	30:17	94.984					95.0				
IS	13C-1,2,3,4,7,8-HxCDF	8.41e+06	0.51 y	0.83	32:60	100.66					101				
IS	13C-1,2,3,6,7,8-HxCDF	9.73e+06	0.51 y	1.03	33:07	93.667					93.7				
IS	13C-2,3,4,6,7,8-HxCDF	9.02e+06	0.51 y	0.95	33:43	94.172					94.2				
IS	13C-1,2,3,7,8,9-HxCDF	8.34e+06	0.51 y	0.83	34:40	100.32					100				
IS	13C-1,2,3,4,6,7,8-HpCDF	6.96e+06	0.43 y	0.76	36:30	91.516					91.5				
IS	13C-1,2,3,4,7,8,9-HpCDF	5.89e+06	0.44 y	0.58	38:18	100.95					101				
IS	13C-OCDF	1.39e+07	0.86 y	0.69	41:14	200.85					100				
C/Up	37C1-2,3,7,8-TCDD	3.11e+06		1.20	26:02	32.456					81.1				
RS/RT	13C-1,2,3,4-TCDD	8.01e+06	0.77 y	1.00	25:26	100.00									
RS	13C-1,2,3,4-TCDF	1.24e+07	0.81 y	1.00	23:58	100.00									
RS/RT	13C-1,2,3,4,6,9-HxCDF	1.00e+07	0.52 y	1.00	33:24	100.00									

Integrations Reviewed
by Analyst: DB by Analyst: CT
Date: 1/10/20 Date: 01/17/2020

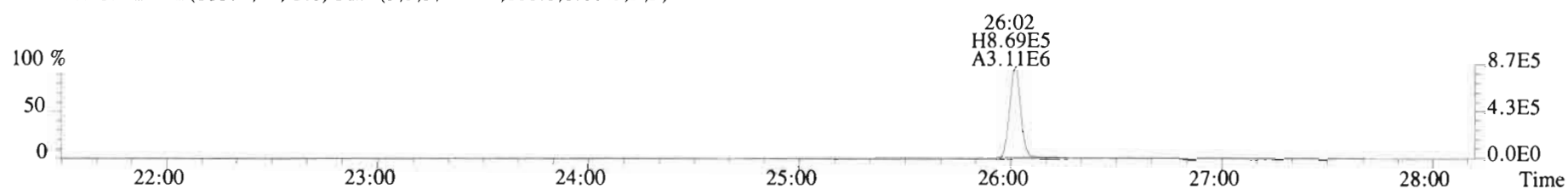
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Sample#2 File Text:Vista_Analytical_Laboratory_VG7 Text:B9L0200-BS1 OPR 10 Exp:OCDD_DB5
319.8965 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



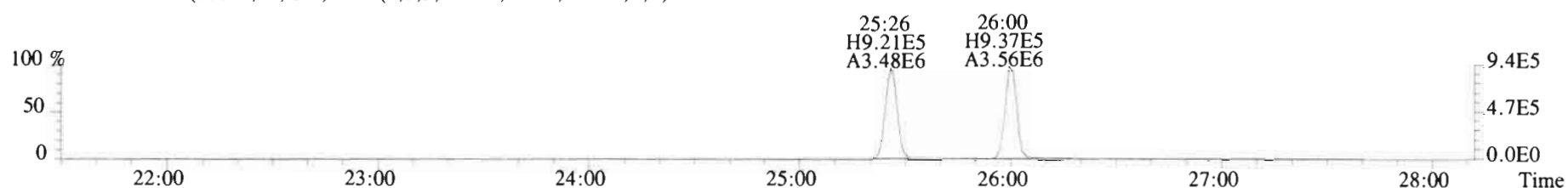
321.8936 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



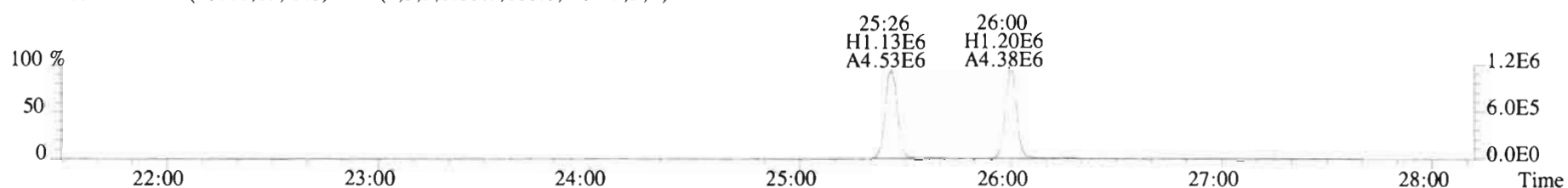
327.8847 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



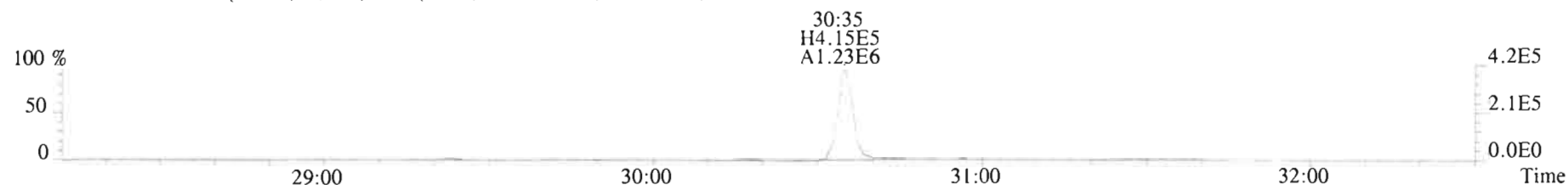
331.9368 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



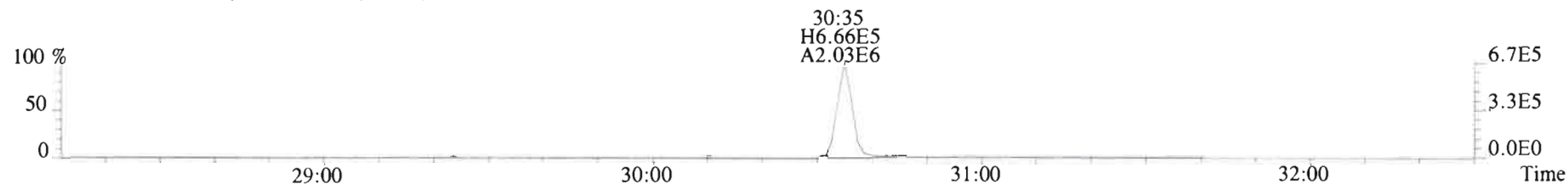
333.9339 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



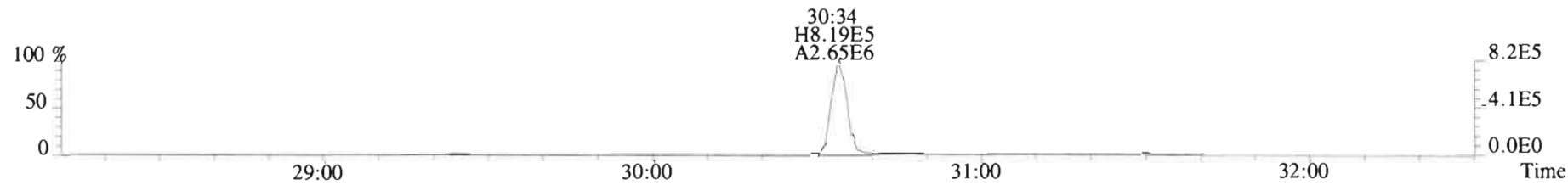
File:200109D2 #1-211 Acq: 9-JAN-2020 23:30:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista_Analytical_Laboratory_VG7 Text:B9L0200-BS1 OPR 10 Exp:OCDD_DB5
353.8576 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



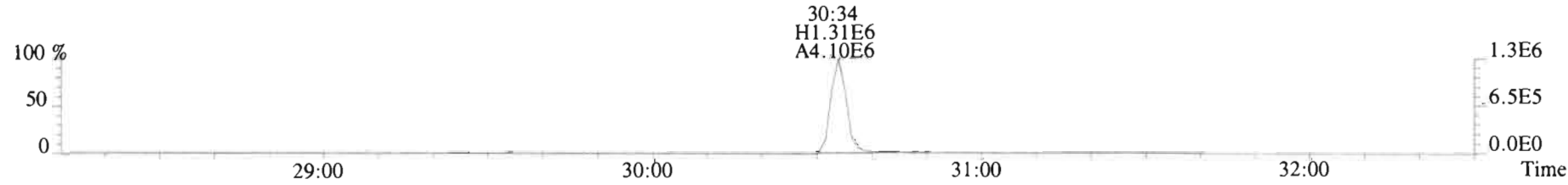
355.8546 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



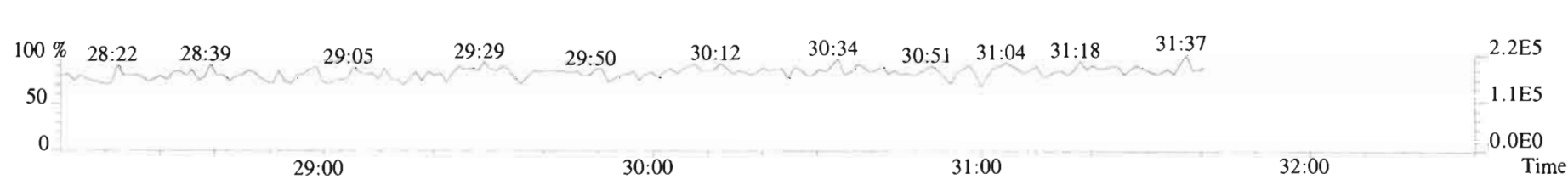
365.8978 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



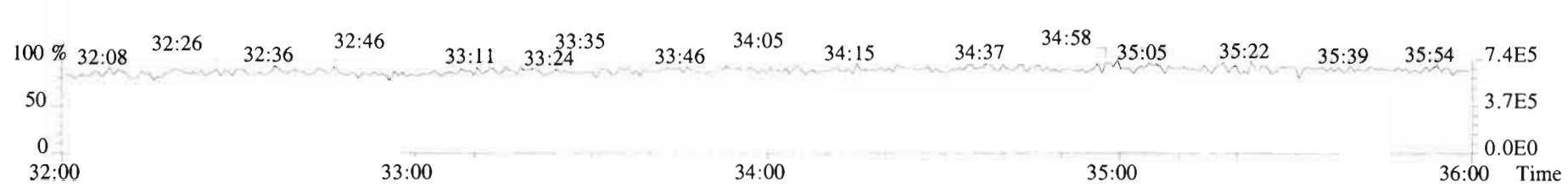
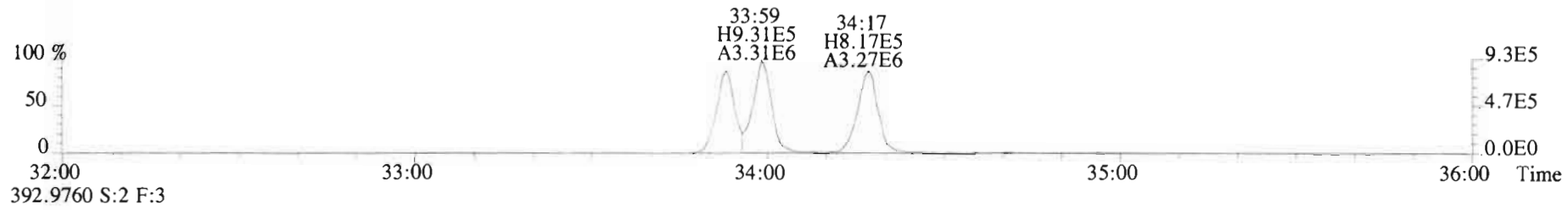
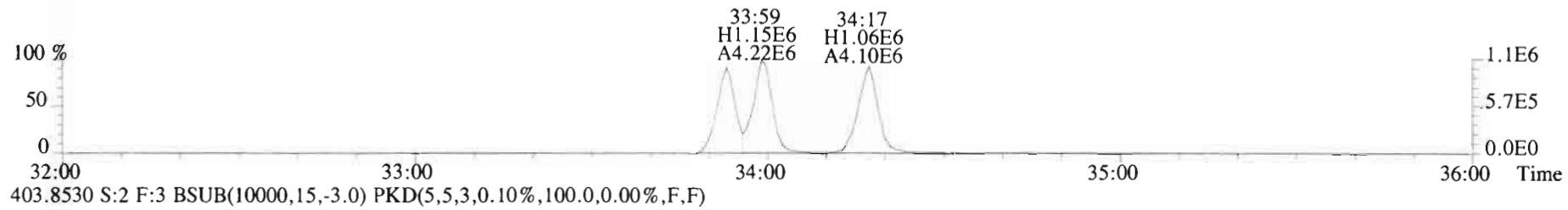
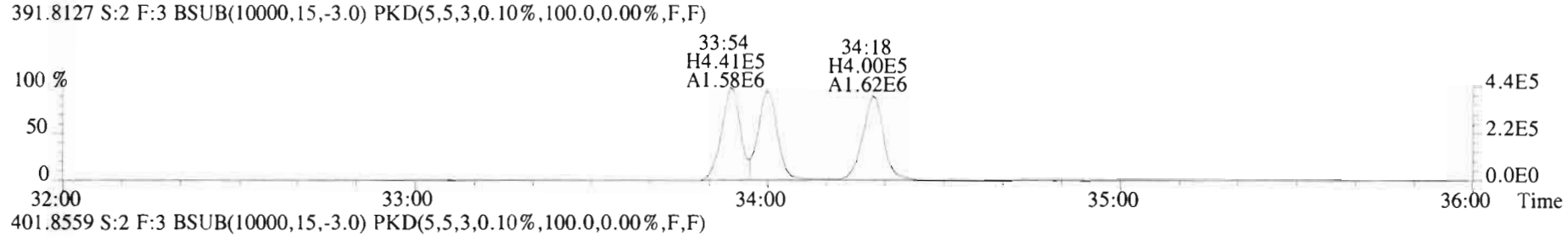
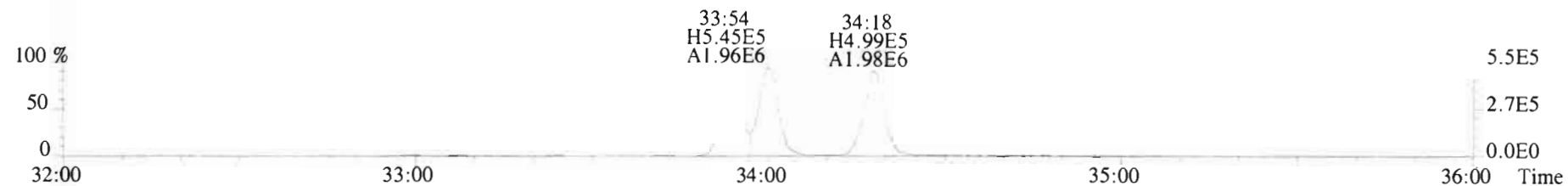
367.8949 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



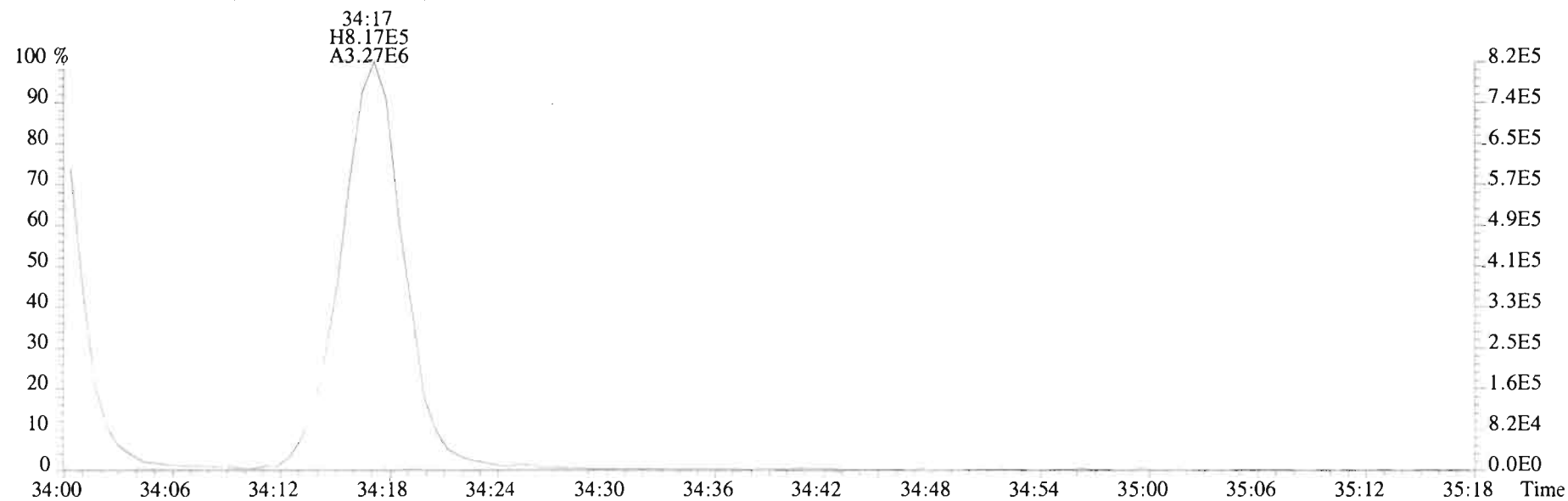
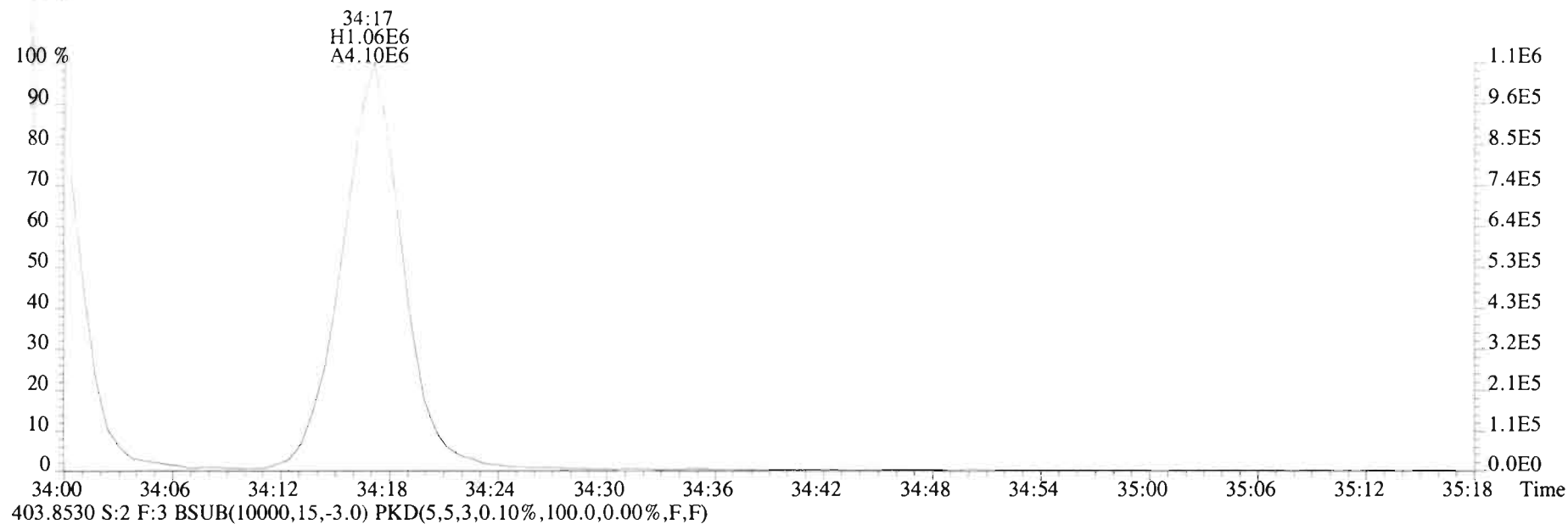
366.9792 S:2 F:2



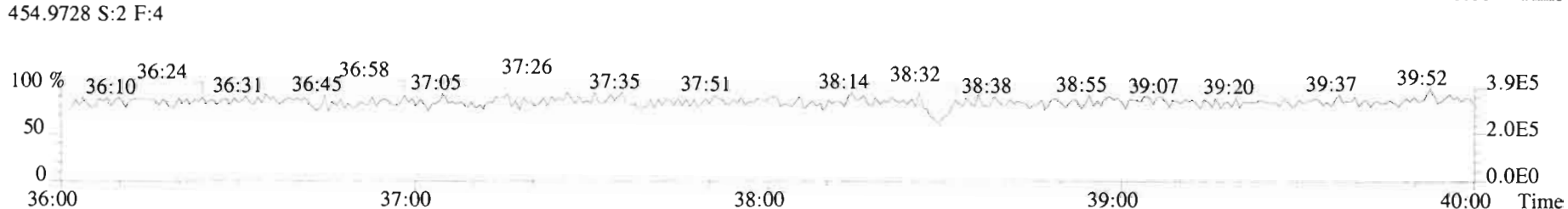
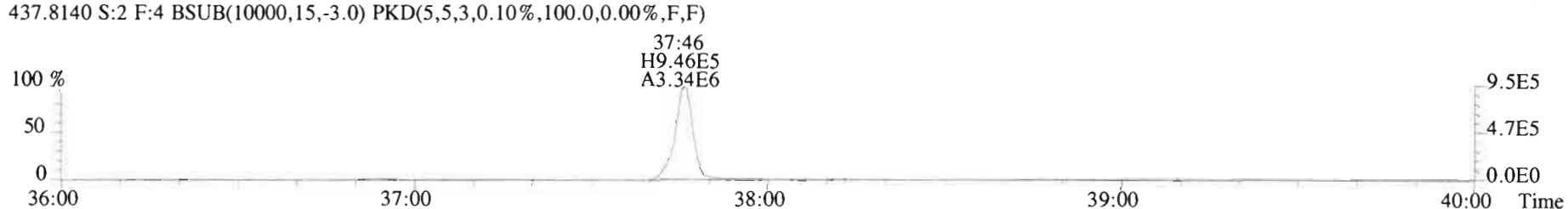
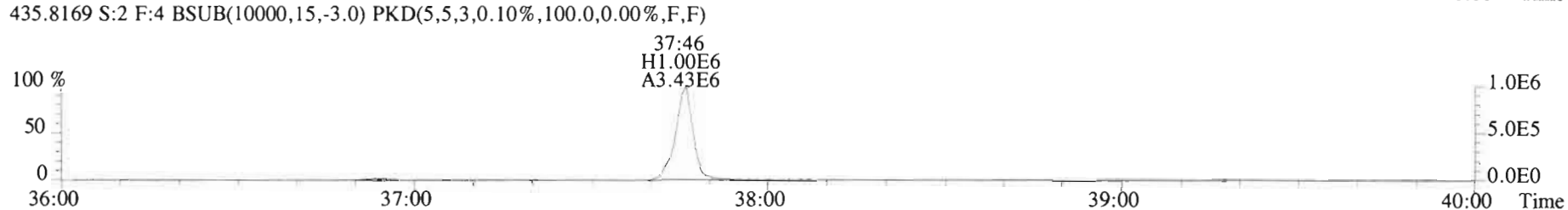
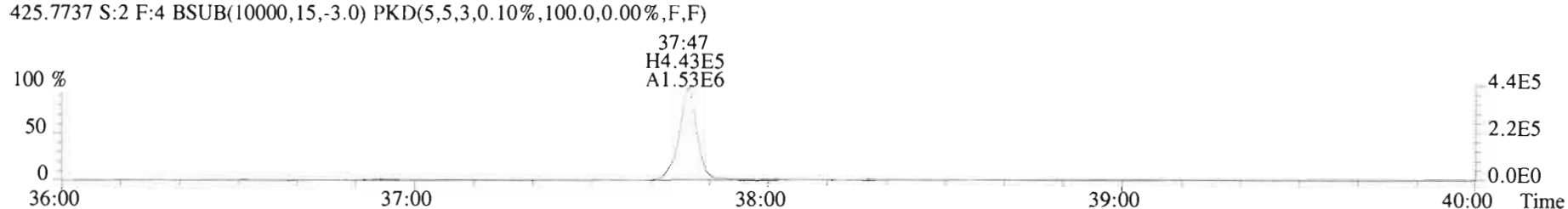
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Sample#2 File Text:Vista_Analytical_Laboratory_VG7 Text:B9L0200-BS1 OPR 10 Exp:OCDD_DB5
389.8156 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



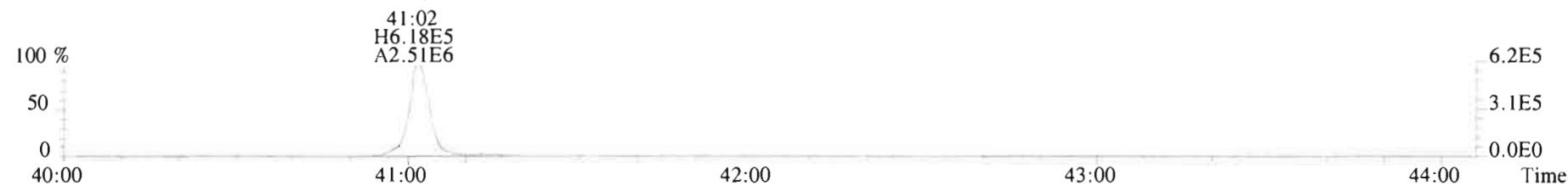
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Sample#2 File Text:Vista_Analytical_Laboratory_VG7 Text:B9L0200-BS1 OPR 10 Exp:OCDD_DB5
401.8559 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



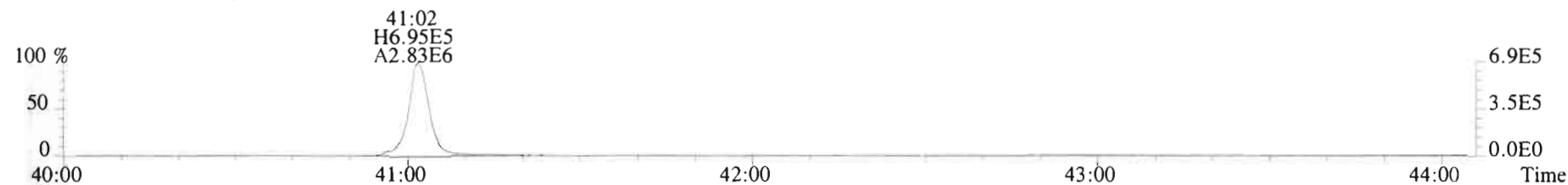
File:200109D2 #1-356 Acq: 9-JAN-2020 23:30:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista_Analytical_Laboratory_VG7 Text:B9L0200-BS1 OPR 10 Exp:OCDD_DB5
423.7767 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



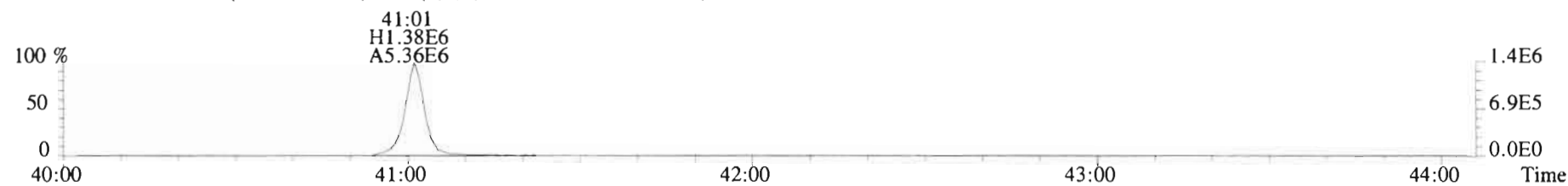
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Sample#2 File Text:Vista_Analytical_Laboratory_VG7 Text:B9L0200-BS1 OPR 10 Exp:OCDD_DB5
457.7377 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



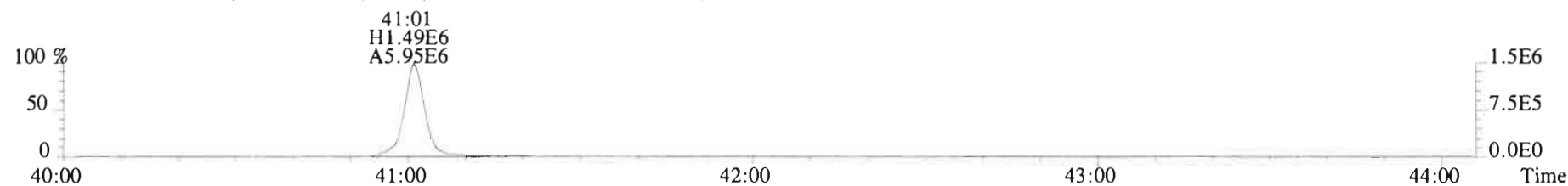
459.7348 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



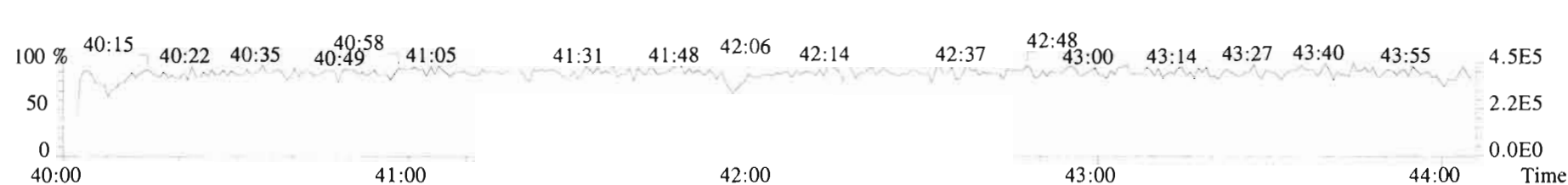
469.7780 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



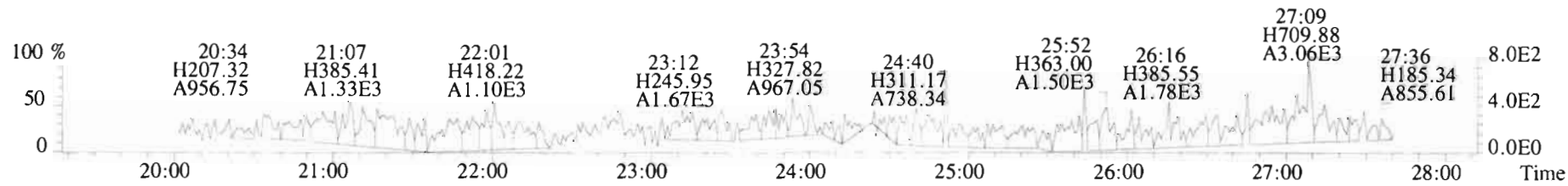
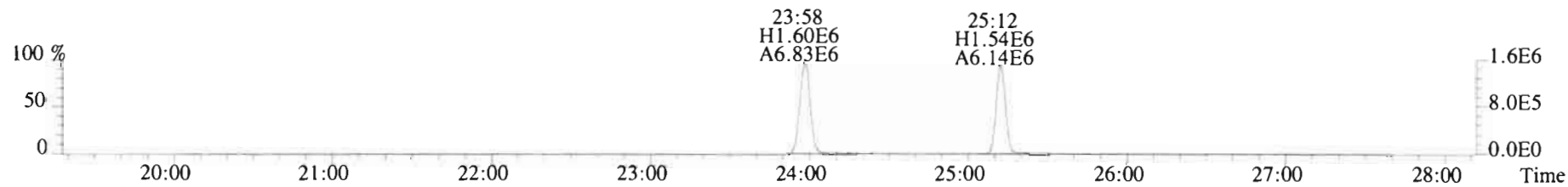
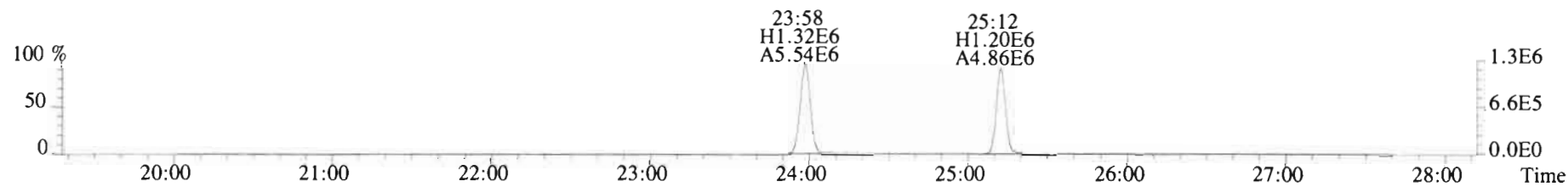
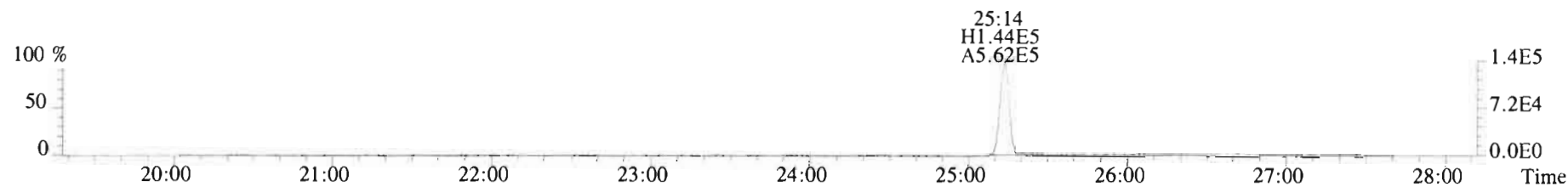
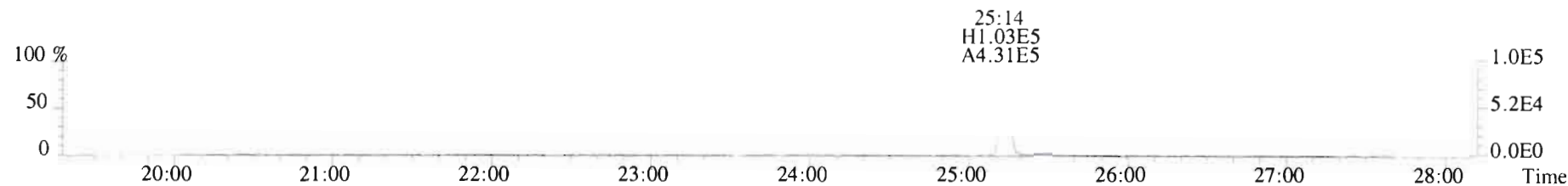
471.7750 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



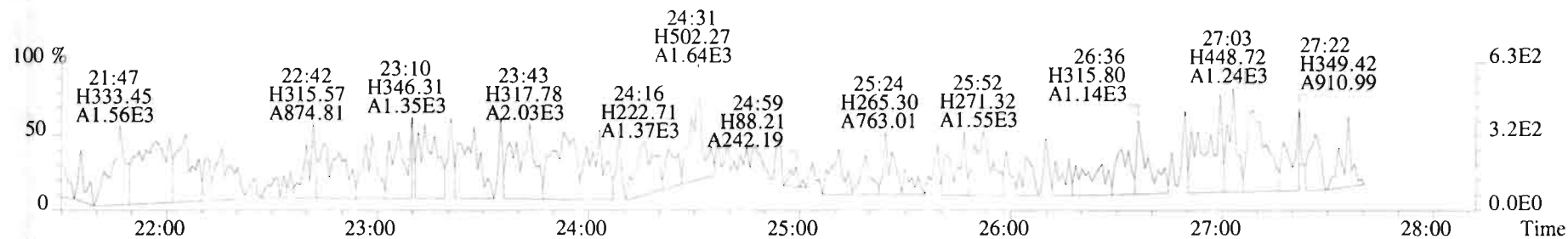
454.9728 S:2 F:5



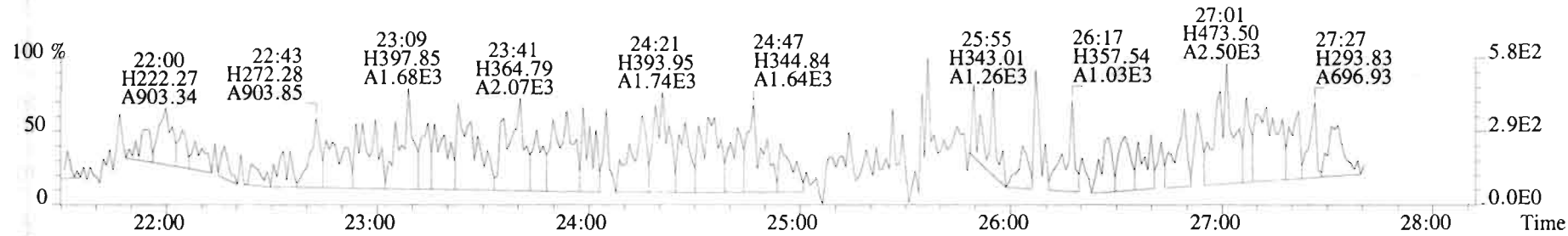
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 Sample#2 File Text:Vista_Analytical_Laboratory_VG7 Text:B9L0200-BS1 OPR 10 Exp:OCDD_DB5
 303.9016 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



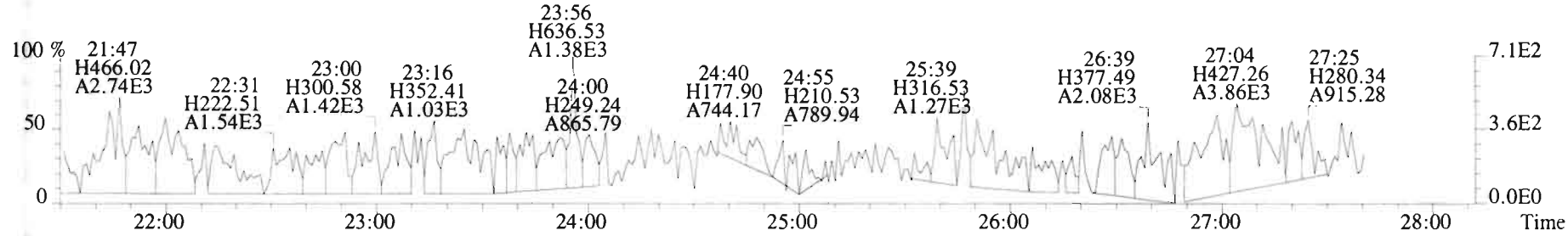
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 Sample#2 File Text:Vista_Analytical_Laboratory_VG7 Text:B9L0200-BS1 OPR 10 Exp:OCDD_DB5
 339.8597 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



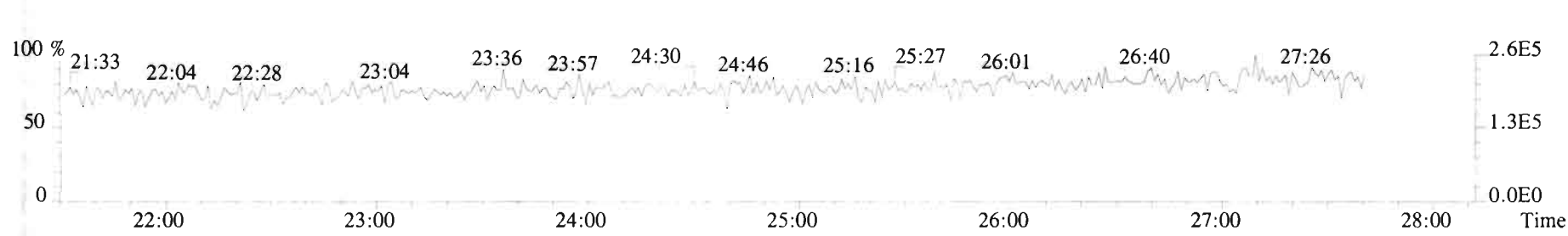
341.8568 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



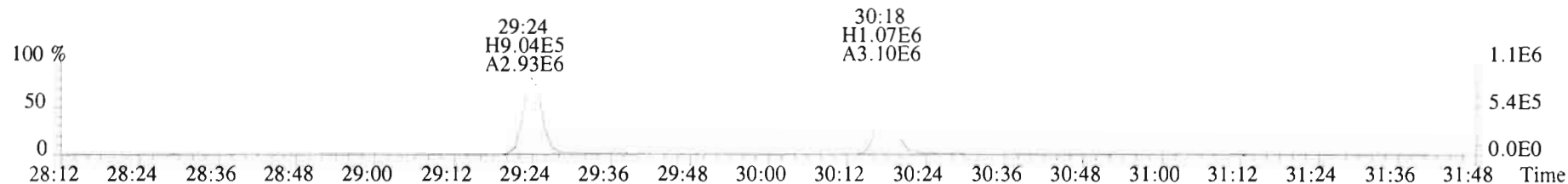
409.7974 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



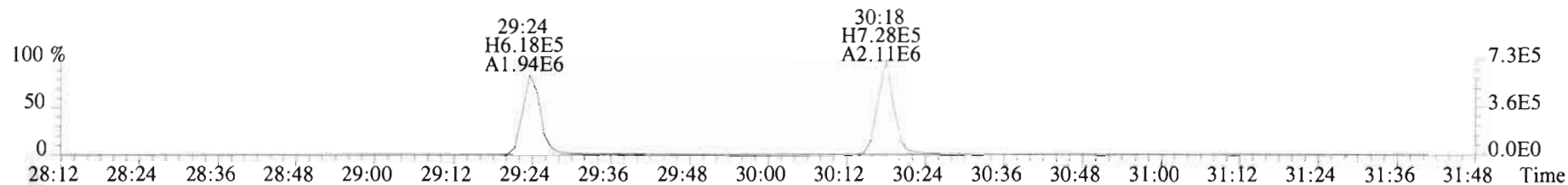
316.9824 S:2



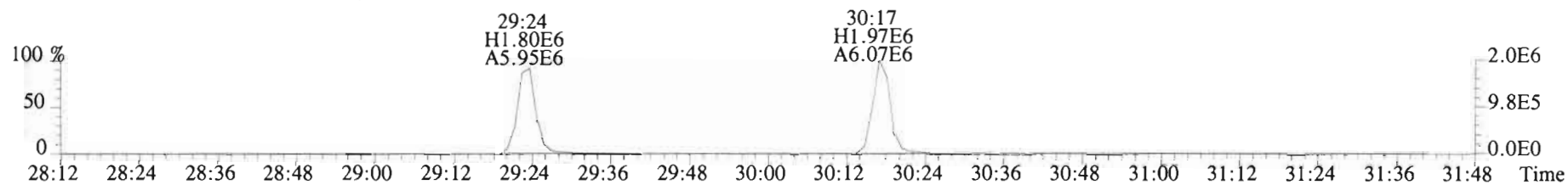
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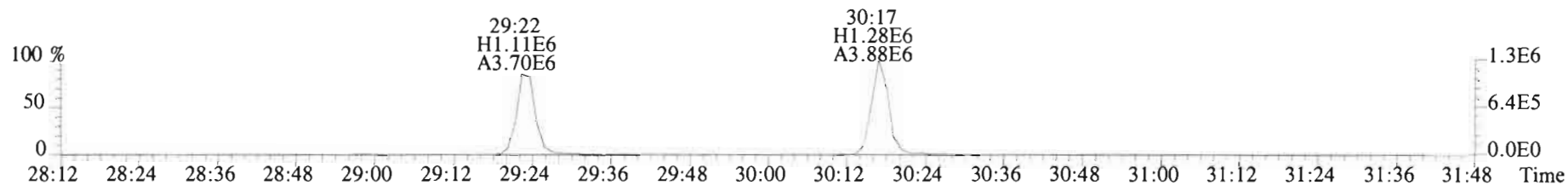
341.8568 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



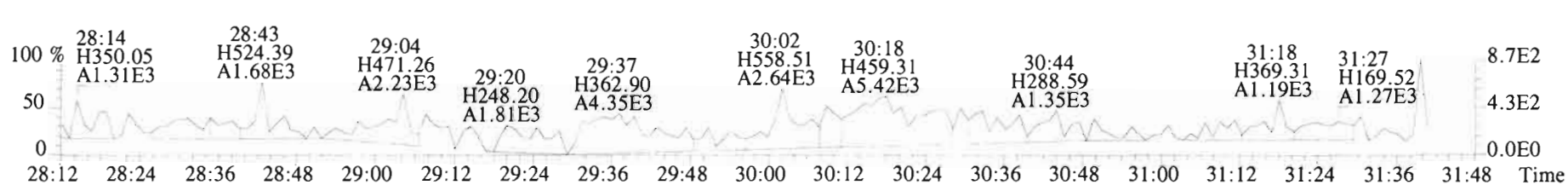
351.9000 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



353.8970 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



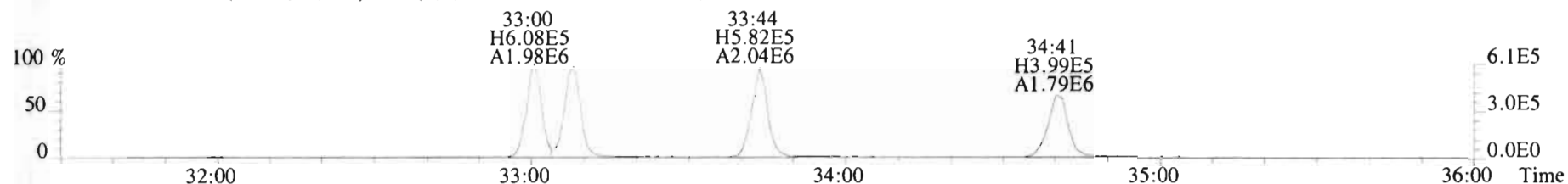
409.7974 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



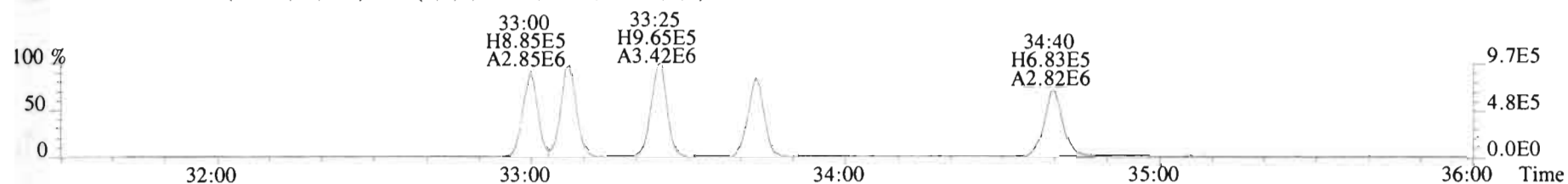
File:200109D2 #1-384 Acq: 9-JAN-2020 23:30:46 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text:Vista Analytical Laboratory_VG7 Text:B9L0200-BS1 OPR 10 Exp:OCDD_DB5
 373.8207 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



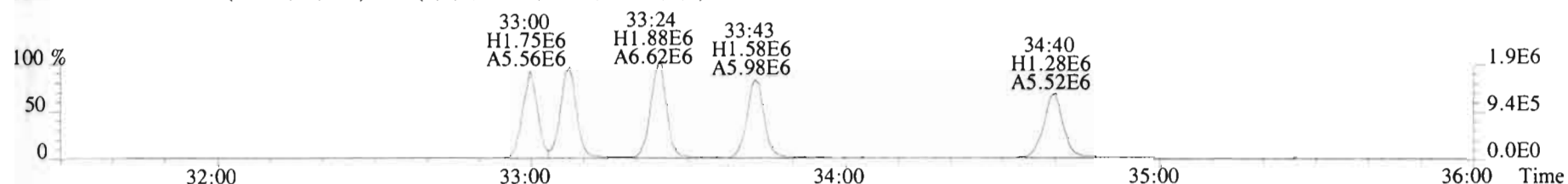
375.8178 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



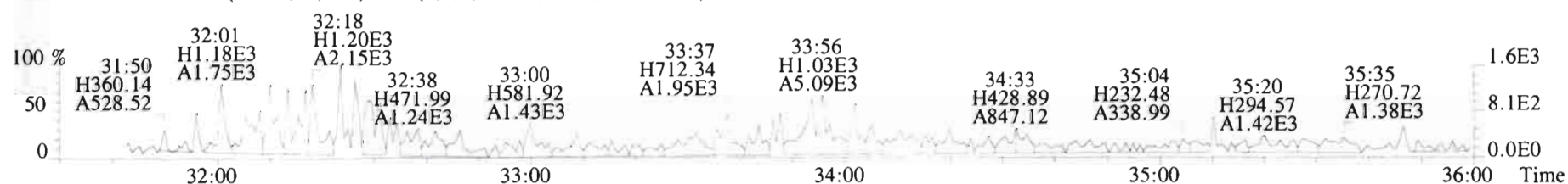
383.8639 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



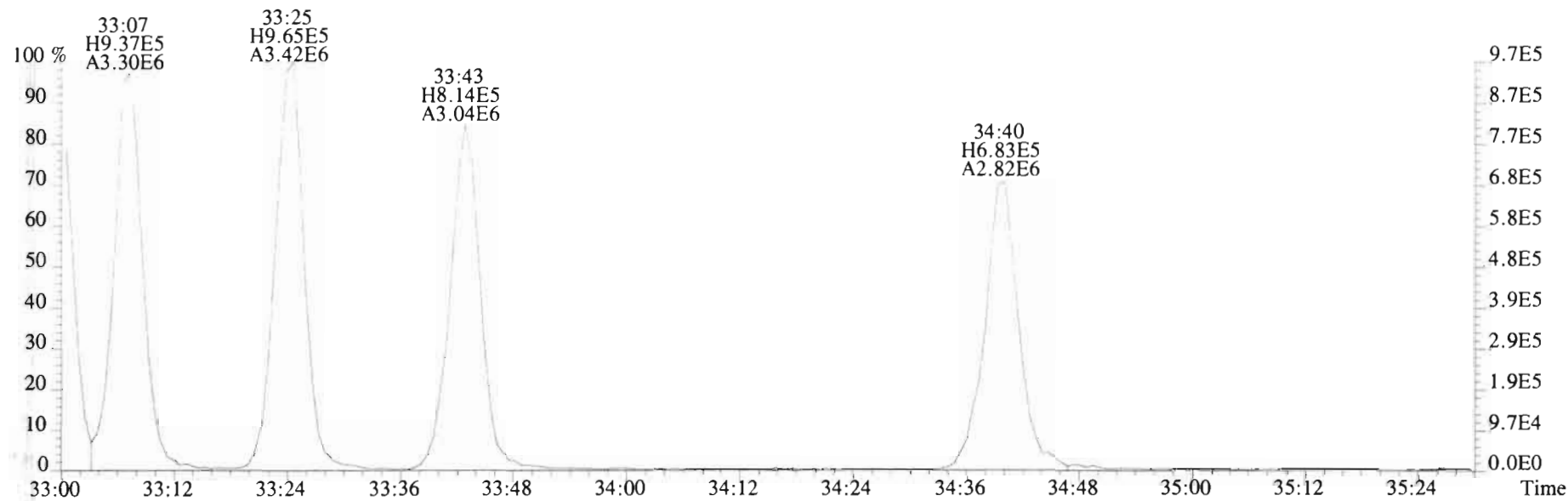
385.8610 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



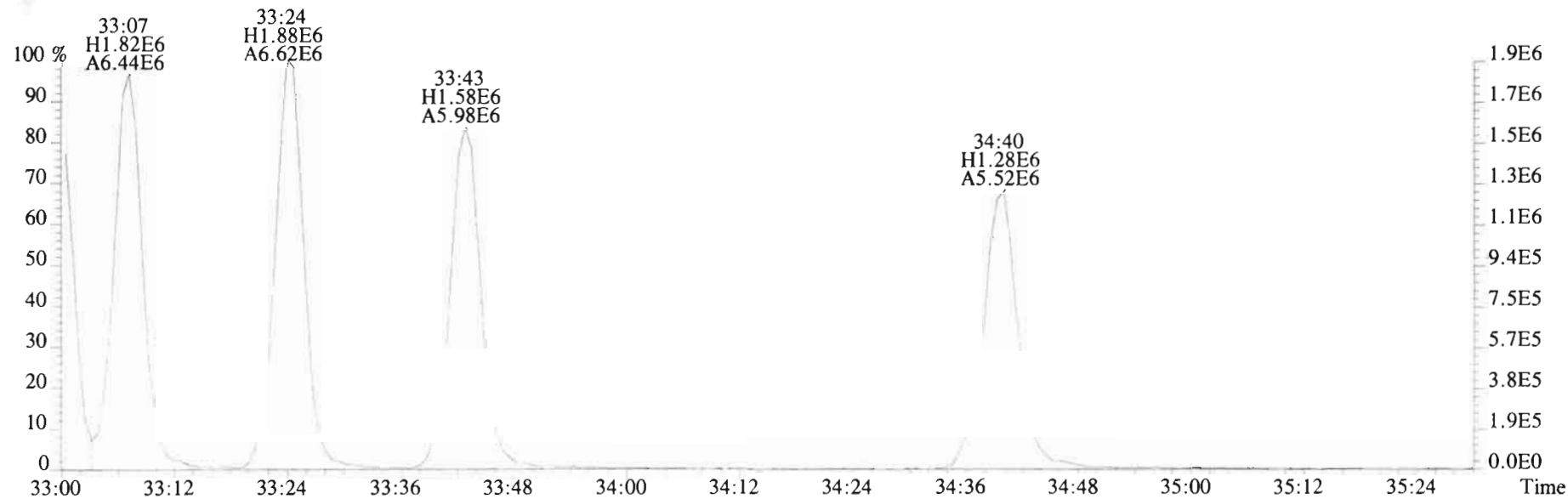
445.7555 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



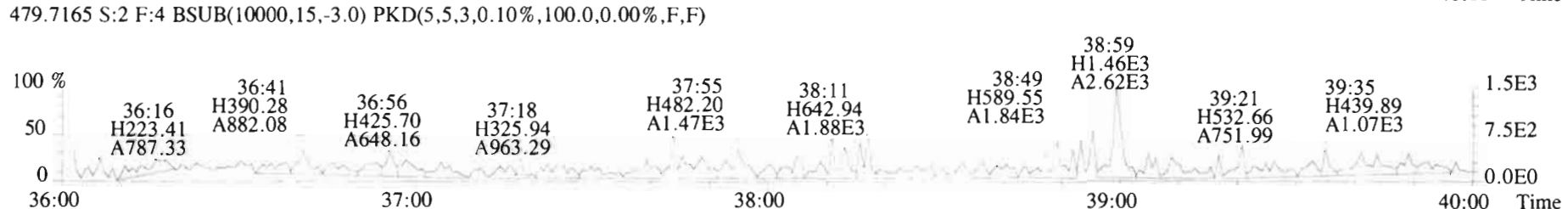
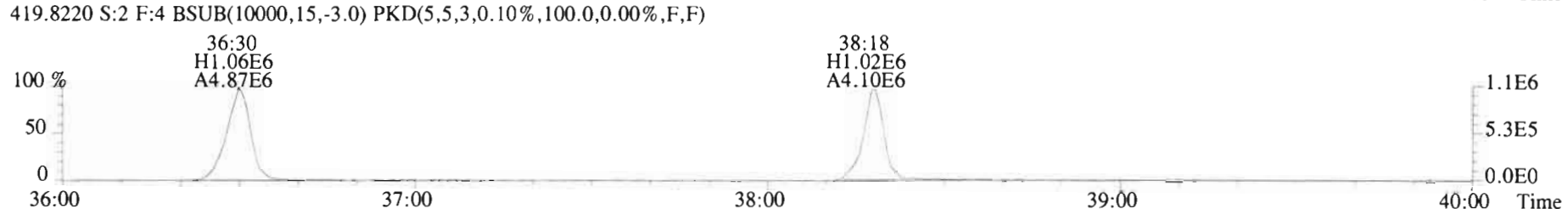
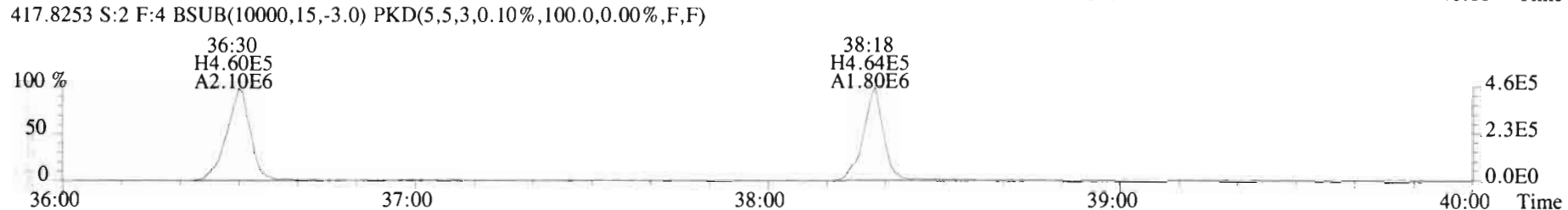
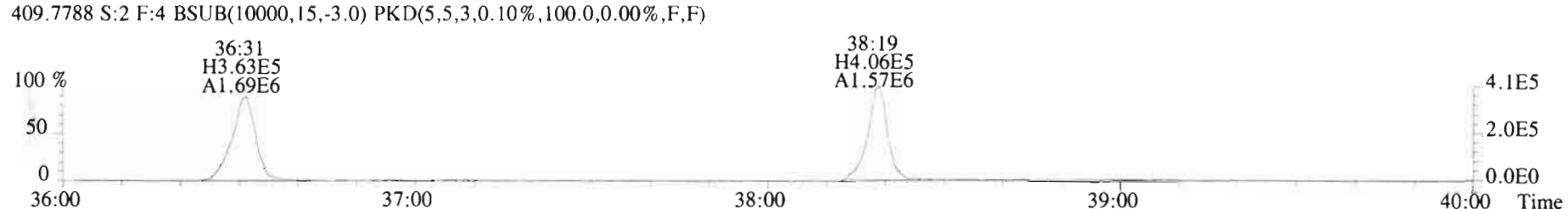
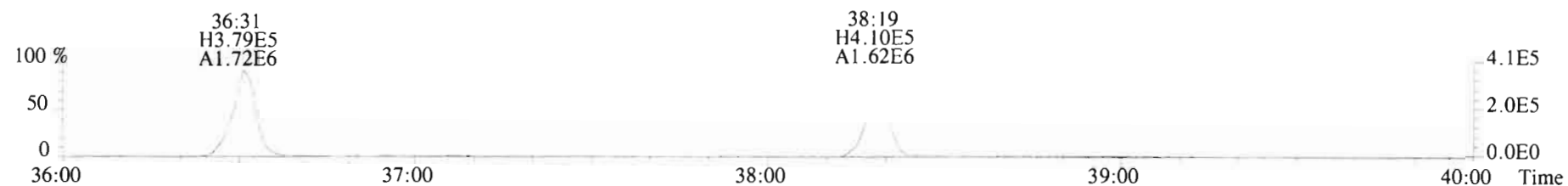
File:200109D2 #1-384 Acq: 9-JAN-2020 23:30:46 GC EI+ Voltage SIR Autospec-UltimaF
Sample#2 File Text:Vista Analytical Laboratory VG7 Text:B9L0200-BS1 OPR 10 Exp:OCDD_DB5
383.8639 S:2 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F)



385.8610 S:2 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F)



File:200109D2 #1-356 Acq: 9-JAN-2020 23:30:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text.Vista_Analytical_Laboratory_VG7 Text:B9L0200-BS1 OPR 10 Exp:OCDID_DB5
407.7818 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F)



File:200109D2 #1-431 Acq: 9-JAN-2020 23:30:46 GC FI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista_Analytical_Laboratory_VG7 Text:B9L0200-BSI OPR 10 Exp:OCDD_DB5
441.7428 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



443.7398 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



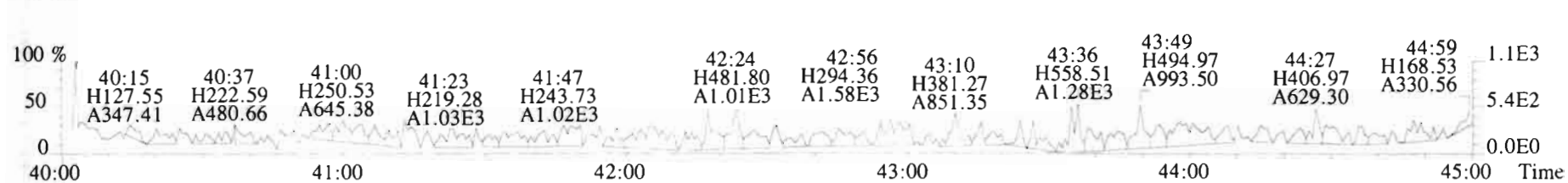
453.7831 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



513.6775 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191212D2\191212D2_8.qld

Last Altered: Friday, December 27, 2019 14:24:38 Pacific Standard Time

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EL 12/27/19

CT 12/29/19

Method: U:\VG7.PRO\MethDB\1613VG7-12-4-19.mdb 10 Dec 2019 16:21:14

Calibration: 17 Dec 2019 10:03:10

Name: 191212D2_8, Date: 13-DEC-2019, Time: 06:31:22, ID: 1904021-01 PDI-1142RAB-20-30.4-191112,

Description: 1904021-01 PDI-1142RAB-20-30.4-191112 11.65 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

#	Name	Area	IS Area	Wt./Vol.	RRF	RA	Y/N	Pred...	RRT	Pred.RT	RT	Conc.	%Rec	EMPC	DL
1	1 2,3,7,8-TCDD		1.09e5	10.1144	0.905			1.001		26.08					0.262
2	2 1,2,3,7,8-PeCDD		9.07e4	10.1144	0.903			1.001		30.60					0.313
3	3 1,2,3,4,7,8-HxCDD		9.07e4	10.1144	1.101			1.000		33.87					0.412
4	4 1,2,3,6,7,8-HxCDD	6.64e2	9.85e4	10.1144	0.939	1.286	NO	1.000	1.001	33.97	33.99	1.4199		1.42	0.452
5	5 1,2,3,7,8,9-HxCDD	3.26e2	9.80e4	10.1144	0.961	1.271	NO	1.001	1.001	34.30	34.29	0.68392		0.684	0.449
6	6 1,2,3,4,6,7,8-HpCDD	4.06e4	8.55e4	10.1144	0.979	1.054	NO	1.000	1.000	37.75	37.75	95.981		96.0	0.901
7	7 OCDD	2.03e5	1.36e5	10.1144	0.959	0.882	NO	1.000	1.000	40.99	41.00	618.26		618	0.683
8	8 2,3,7,8-TCDF	2.18e3	1.59e5	10.1144	0.950	0.661	NO	1.001	1.001	25.28	25.29	2.8521		2.85	0.274
9	9 1,2,3,7,8-PeCDF	2.77e3	1.41e5	10.1144	0.960	1.513	NO	1.001	1.001	29.41	29.40	4.0308		4.03	0.238
10	10 2,3,4,7,8-PeCDF	2.49e3	1.33e5	10.1144	1.015	1.491	NO	1.001	1.001	30.32	30.31	3.6487		3.65	0.229
11	11 1,2,3,4,7,8-HxCDF	2.91e3	1.14e5	10.1144	1.177	1.210	NO	1.000	1.001	32.98	33.00	4.2839		4.28	0.267
12	12 1,2,3,6,7,8-HxCDF	7.01e2	1.23e5	10.1144	1.069	1.323	NO	1.000	1.000	33.12	33.11	1.0556		1.06	0.285
13	13 2,3,4,6,7,8-HxCDF	5.03e2	1.16e5	10.1144	1.114	1.675	YES	1.001	1.001	33.73	33.72	0.77106		0.646	0.300
14	14 1,2,3,7,8,9-HxCDF		1.08e5	10.1144	1.062			1.000		34.65					0.375
15	15 1,2,3,4,6,7,8-HpCDF	3.51e3	9.14e4	10.1144	1.128	0.978	NO	1.001	1.000	36.52	36.49	6.7382		6.74	0.336
16	16 1,2,3,4,7,8,9-HpCDF	5.51e2	7.83e4	10.1144	1.280	0.913	NO	1.000	1.000	38.28	38.29	1.0880		1.09	0.294
17	17 OCDF	9.95e3	1.67e5	10.1144	0.947	0.847	NO	1.000	1.000	41.21	41.22	24.939		24.9	0.314
18	18 13C-2,3,7,8-TCDD	1.09e5	1.50e5	10.1144	1.095	0.785	NO	1.021	1.023	26.01	26.05	131.34	66.4		0.473
19	19 13C-1,2,3,7,8-PeCDD	9.07e4	1.50e5	10.1144	0.881	0.619	NO	1.187	1.200	30.23	30.58	135.83	68.7		0.319
20	20 13C-1,2,3,4,7,8-Hx...	9.07e4	1.90e5	10.1144	0.642	1.275	NO	1.014	1.014	33.86	33.86	147.22	74.5		0.519
21	21 13C-1,2,3,6,7,8-Hx...	9.85e4	1.90e5	10.1144	0.856	1.260	NO	1.017	1.017	33.97	33.97	120.04	60.7		0.389
22	22 13C-1,2,3,7,8,9-Hx...	9.80e4	1.90e5	10.1144	0.807	1.232	NO	1.026	1.026	34.27	34.27	126.65	64.0		0.413
23	23 13C-1,2,3,4,6,7,8-H...	8.55e4	1.90e5	10.1144	0.654	1.067	NO	1.126	1.130	37.61	37.74	136.31	68.9		0.746
24	24 13C-OCDD	1.36e5	1.90e5	10.1144	0.580	0.906	NO	1.226	1.227	40.94	40.99	243.91	61.7		0.384
25	25 13C-2,3,7,8-TCDF	1.59e5	2.36e5	10.1144	1.035	0.799	NO	0.992	0.991	25.26	25.26	128.89	65.2		0.430
26	26 13C-1,2,3,7,8-PeCDF	1.41e5	2.36e5	10.1144	0.854	1.609	NO	1.154	1.154	29.39	29.39	138.57	70.1		0.532
27	27 13C-2,3,4,7,8-PeCDF	1.33e5	2.36e5	10.1144	0.847	1.651	NO	1.189	1.189	30.29	30.29	131.20	66.4		0.537
28	28 13C-1,2,3,4,7,8-Hx...	1.14e5	1.90e5	10.1144	0.832	0.543	NO	0.987	0.988	32.97	32.98	142.86	72.2		0.839
29	29 13C-1,2,3,6,7,8-Hx...	1.23e5	1.90e5	10.1144	1.034	0.531	NO	0.991	0.992	33.09	33.11	123.90	62.7		0.675
30	30 13C-2,3,4,6,7,8-Hx...	1.16e5	1.90e5	10.1144	0.953	0.501	NO	1.009	1.009	33.70	33.70	126.74	64.1		0.732
31	31 13C-1,2,3,7,8,9-Hx...	1.08e5	1.90e5	10.1144	0.828	0.494	NO	1.039	1.038	34.69	34.65	136.22	68.9		0.843

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191212D2\191212D2_8.qld

Last Altered: Friday, December 27, 2019 14:24:38 Pacific Standard Time

Printed: Friday, December 27, 2019 14:27:07 Pacific Standard Time

Name: 191212D2_8, Date: 13-DEC-2019, Time: 06:31:22, ID: 1904021-01 PDI-1142RAB-20-30.4-191112,

Description: 1904021-01 PDI-1142RAB-20-30.4-191112 11.65 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

	# Name	Area	IS Area	Wt./Vol.	RRF	RA	Y/N	Pred...	RRT	Pred.RT	RT	Conc.	%Rec	EMPC	DL
32	32 13C-1,2,3,4,6,7,8-H...	9.14e4	1.90e5	10.1144	0.757	0.436	NO	1.093	1.092	36.49	36.48	125.80	63.6		0.569
33	33 13C-1,2,3,4,7,8,9-H...	7.83e4	1.90e5	10.1144	0.581	0.424	NO	1.143	1.146	38.17	38.28	140.46	71.0		0.742
34	34 13C-OCDF	1.67e5	1.90e5	10.1144	0.689	0.852	NO	1.233	1.234	41.18	41.21	251.97	63.7		0.401
35	35 37Cl-2,3,7,8-TCDD	6.16e4	1.50e5	10.1144	1.198			1.022	1.023	26.03	26.06	67.923	85.9		0.159
36	36 13C-1,2,3,4-TCDD	1.50e5	1.50e5	10.1144	1.000	0.797	NO	1.000	1.000	25.50	25.47	197.74	100.0		0.518
37	37 13C-1,2,3,4-TCDF	2.36e5	2.36e5	10.1144	1.000	0.799	NO	1.000	1.000	24.06	24.04	197.74	100.0		0.445
38	38 13C-1,2,3,4,6,9-Hx...	1.90e5	1.90e5	10.1144	1.000	0.517	NO	1.000	1.000	33.42	33.39	197.74	100.0		0.698
39	39 Total Tetra-Dioxins		1.09e5	10.1144	0.901			0.000		25.50					0.128
40	40 Total Penta-Dioxins		9.07e4	10.1144	0.872			0.000		30.00		0.80703		1.09	0.324
41	41 Total Hexa-Dioxins		0.00e0	10.1144	0.976			0.000		33.80		21.846		22.7	0.447
42	42 Total Hepta-Dioxins		8.55e4	10.1144	0.989			0.000		37.75		220.48		220	0.893
43	43 Total Tetra-Furans		1.59e5	10.1144	0.943			0.000		24.00		5.7489		6.33	0.276
44	44 1st Func. Penta-Fur...		0.00e0	10.1144	0.940			0.000		27.63		3.4466		3.45	0.101
45	45 Total Penta-Furans		0.00e0	10.1144	0.940			0.000		30.00		14.082		15.0	0.245
46	46 Total Hexa-Furans		0.00e0	10.1144	1.078			0.000		33.00		12.964		13.6	0.312
47	47 Total Hepta-Furans		0.00e0	10.1144	1.135			0.000		37.75		23.958		24.0	0.333

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191212D2\191212D2_8.qld

Last Altered: Friday, December 27, 2019 14:24:38 Pacific Standard Time

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Method: U:\VG7.PRO\MethDB\1613VG7-12-4-19.mdb 10 Dec 2019 16:21:14

Calibration: 17 Dec 2019 10:03:10

Name: 191212D2_8, Date: 13-DEC-2019, Time: 06:31:22, ID: 1904021-01 PDI-1142RAB-20-30.4-191112,

Description: 1904021-01 PDI-1142RAB-20-30.4-191112 11.65 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

Tetra-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1									

Penta-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	40 Total Penta-Dioxins	NO	28.54	133.685	34667.863	7.119	MM	0.8070	0.81
2	40 Total Penta-Dioxins	YES	28.97	59.433	34667.863	0.000	MM	0.0000	0.29

Hexa-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	41 Total Hexa-Dioxins	NO	32.36	2457.522	53274.937	93.058	MM	9.4278	9.43
2	41 Total Hexa-Dioxins	NO	32.92	383.988	53274.937	14.026	MM	1.4210	1.42
3	41 Total Hexa-Dioxins	NO	33.18	2388.632	53274.937	87.780	bd	8.8931	8.89
4	41 Total Hexa-Dioxins	YES	33.30	153.217	53274.937	0.000	MM	0.0000	0.59
5	4 1,2,3,6,7,8-HxCDD	NO	33.99	373.424	54921.496	13.479	MM	1.4199	1.42
6	5 1,2,3,7,8,9-HxCDD	NO	34.29	182.355	54082.656	6.650	MM	0.6839	0.68
7	41 Total Hexa-Dioxins	YES	34.01	68.880	53274.937	0.000	MM	0.0000	0.26

Hepta-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	42 Total Hepta-Dioxins	NO	36.90	27204.314	44136.234	1245.030	MM	124.5019	124.50
2	6 1,2,3,4,6,7,8-HpCDD	NO	37.75	20859.959	44136.234	950.789	MM	95.9808	95.98

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191212D2\191212D2_8.qld

Last Altered: Friday, December 27, 2019 14:24:38 Pacific Standard Time

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Name: 191212D2_8, Date: 13-DEC-2019, Time: 06:31:22, ID: 1904021-01 PDI-1142RAB-20-30.4-191112,
 Description: 1904021-01 PDI-1142RAB-20-30.4-191112 11.65 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

Tetra-Furans

	# Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	43 Total Tetra-Furans	NO	21.05	44.490	70792.305	1.315	MM	0.1379	0.14
2	43 Total Tetra-Furans	NO	21.68	203.458	70792.305	5.448	MM	0.5713	0.57
3	43 Total Tetra-Furans	YES	22.58	191.510	70792.305	0.000	bd	0.0000	0.58
4	43 Total Tetra-Furans	NO	24.46	722.025	70792.305	20.860	MM	2.1876	2.19
5	8 2,3,7,8-TCDF	NO	25.29	869.407	70792.305	27.408	MM	2.8521	2.85

Penta-Furans function 1

	# Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	44 1st Func. Penta-Furans	NO	27.06	1394.908	84988.402	32.755	bb	3.4466	3.45

Penta-Furans

	# Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	45 Total Penta-Furans	YES	28.38	119.303	84988.402	0.000	bd	0.0000	0.30
2	45 Total Penta-Furans	NO	28.50	1395.799	84988.402	33.255	MM	3.4992	3.50
3	45 Total Penta-Furans	YES	29.03	283.506	84988.402	0.000	MM	0.0000	0.57
4	45 Total Penta-Furans	NO	29.23	311.791	84988.402	7.360	MM	0.7745	0.77
5	9 1,2,3,7,8-PeCDF	NO	29.40	1667.332	87241.828	39.155	MM	4.0308	4.03
6	45 Total Penta-Furans	NO	29.65	840.545	84988.402	20.235	MM	2.1292	2.13
7	10 2,3,4,7,8-PeCDF	NO	30.31	1489.121	82734.977	37.451	MM	3.6487	3.65

Hexa-Furans

	# Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	46 Total Hexa-Furans	NO	31.84	224.321	39293.313	6.791	MM	0.6230	0.62
2	46 Total Hexa-Furans	NO	31.99	1156.786	39293.313	36.281	MM	3.3287	3.33
3	46 Total Hexa-Furans	NO	32.53	1270.782	39293.313	40.031	MM	3.6729	3.67
4	11 1,2,3,4,7,8-HxCDF	NO	33.00	1590.950	40110.730	50.990	dd	4.2839	4.28
5	12 1,2,3,6,7,8-HxCDF	NO	33.11	399.464	42645.398	11.413	db	1.0556	1.06
6	13 2,3,4,6,7,8-HxCDF	YES	33.72	315.102	38666.574	0.000	MM	0.0000	0.65

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191212D2\191212D2_8.qld

Last Altered: Friday, December 27, 2019 14:24:38 Pacific Standard Time

Printed: Friday, December 27, 2019 14:27:07 Pacific Standard Time

Name: 191212D2_8, Date: 13-DEC-2019, Time: 06:31:22, ID: 1904021-01 PDI-1142RAB-20-30.4-191112,

Description: 1904021-01 PDI-1142RAB-20-30.4-191112 11.65 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

Hepta-Furans

	# Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	15 1,2,3,4,6,7,8-HpCDF	NO	36.49	1736.178	27758.938	76.849	bb	6.7382	6.74
2	47 Total Hepta-Furans	NO	37.09	3935.635	25531.732	185.141	MM	16.1318	16.13
3	16 1,2,3,4,7,8,9-HpCDF	NO	38.29	263.244	23304.527	14.085	MM	1.0880	1.09

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Dataset: Untitled

Last Altered: Tuesday, December 17, 2019 09:53:12 Pacific Standard Time

Printed: Tuesday, December 17, 2019 09:53:46 Pacific Standard Time

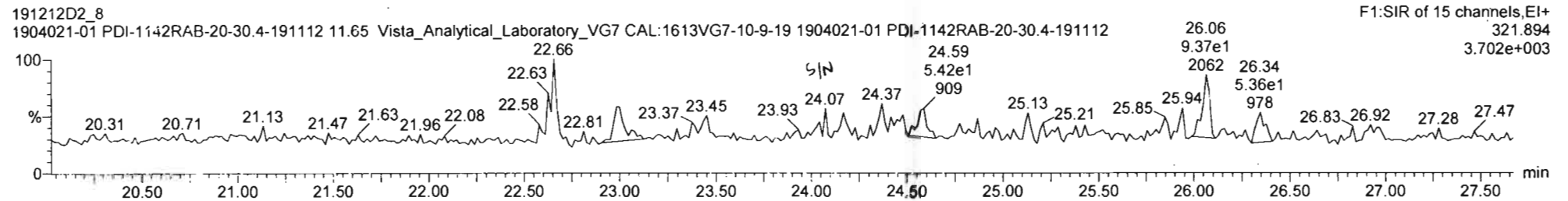
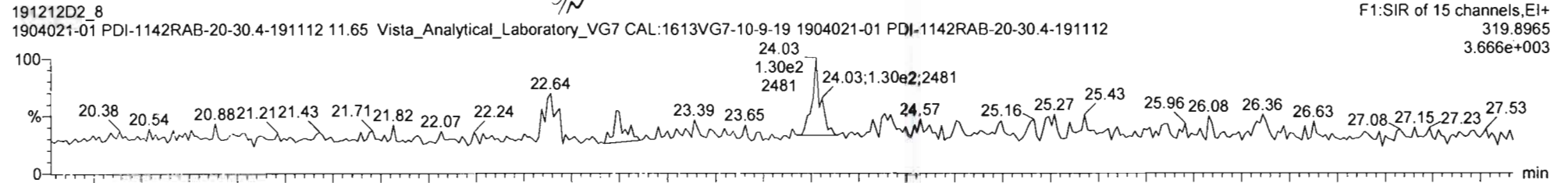
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Calibration: 17 Dec 2019 09:53:12

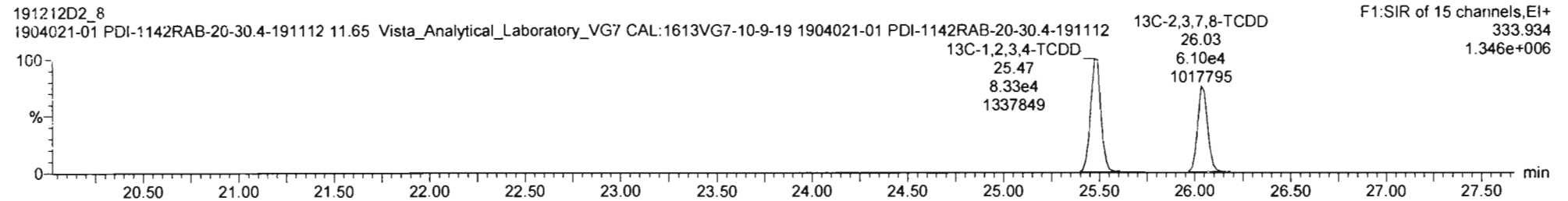
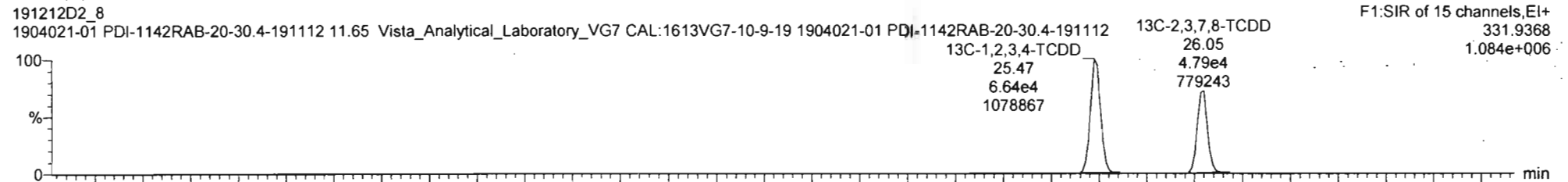
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Description: 1904021-01 PDI-1142RAB-20-30.4-191112 11.65 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

Total Tetra-Dioxins



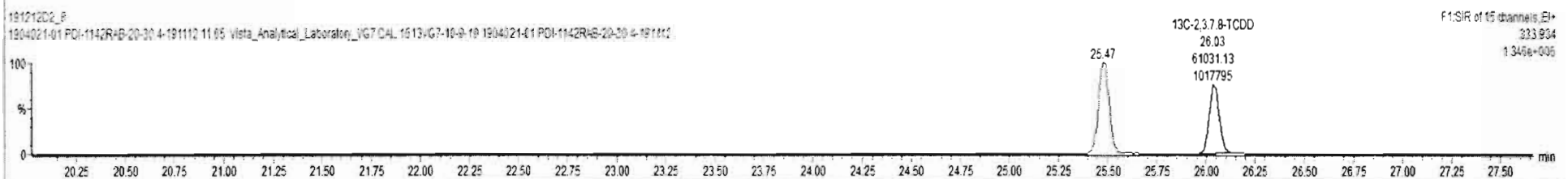
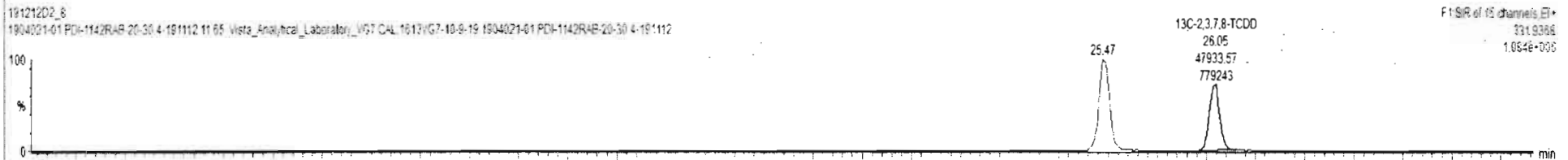
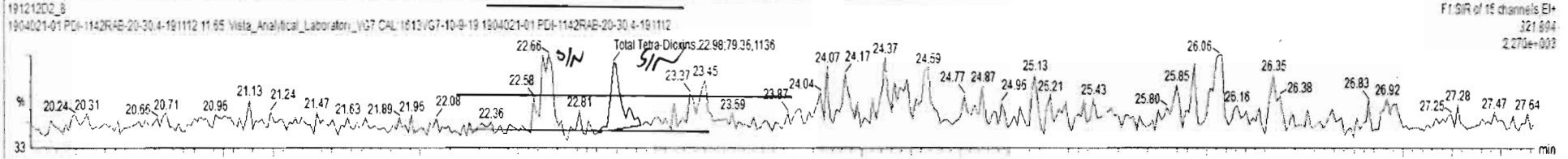
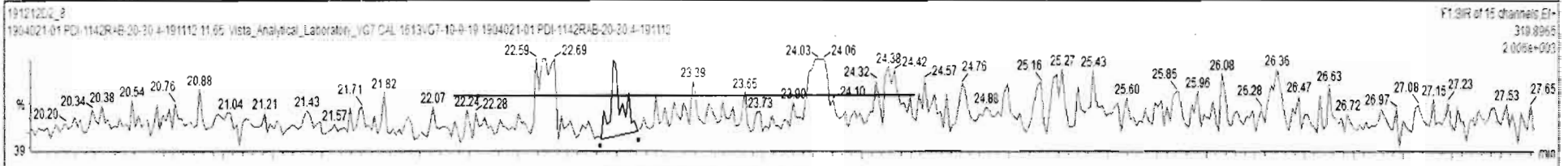
13C-2,3,7,8-TCDD



191212D2_8 - 1904021-01 PDI-1142RAB-20-30 4-191112 - 1904021-01 PDI-1142RAB-20-30 4-191112 11.65 Vista_Analytical_Laboratory_VG7 CAL 1613VG7-10-9-19

#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wt/vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins		1.05e5				0.901	10.114	25.50			0.000	NO	0.2968	0.264	0.2990	
40	Total Penta-Dioxins		9.07e4				0.872	10.114	30.00			0.000	NO	0.0000	0.138	2.626	
41	Total Hexa-Dioxins		0.00e0				0.976	10.114	33.80			0.000	NO	21.40	0.447	24.19	
42	Total Hepta-Dioxins		6.55e4				0.989	10.114	37.75			0.000	NO	218.1	0.893	218.4	
43	Total Tetra-Furans		1.59e5				0.943	10.114	24.00			0.000	NO	3.477	0.276	7.254	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc
1	39 Total Tetra-Dioxins	25.50	22.98	6.902e1	7.936e1	0.770	0.87	NO	0.26900	0.29688



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Dataset: Untitled

Last Altered: Tuesday, December 17, 2019 09:53:12 Pacific Standard Time

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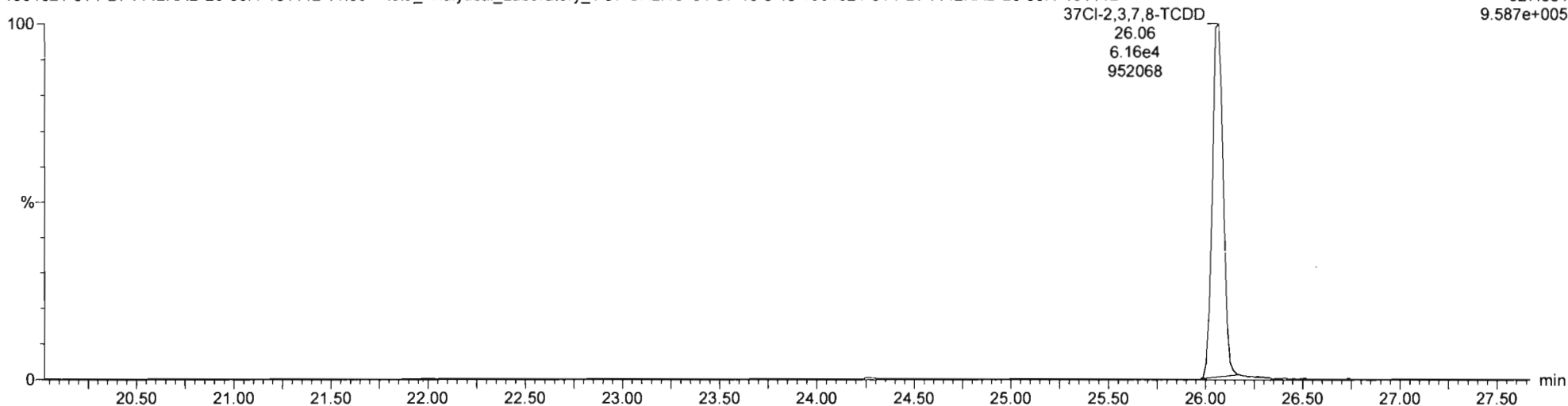
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Description: 1904021-01 PDI-1142RAB-20-30.4-191112 11.65 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

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

191212D2_8

1904021-01 PDI-1142RAB-20-30.4-191112 11.65 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19 1904021-01 PDI-1142RAB-20-30.4-191112

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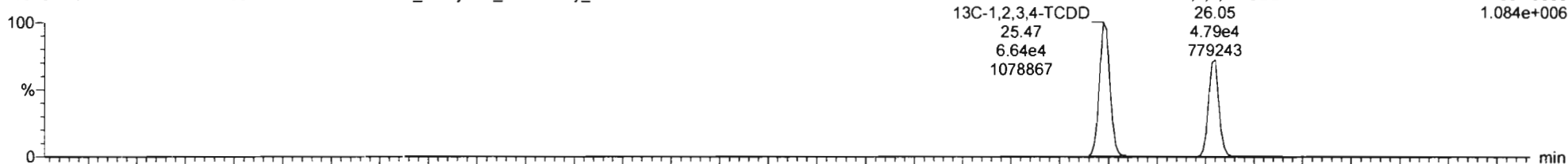


13C-1,2,3,4-TCDD

191212D2_8

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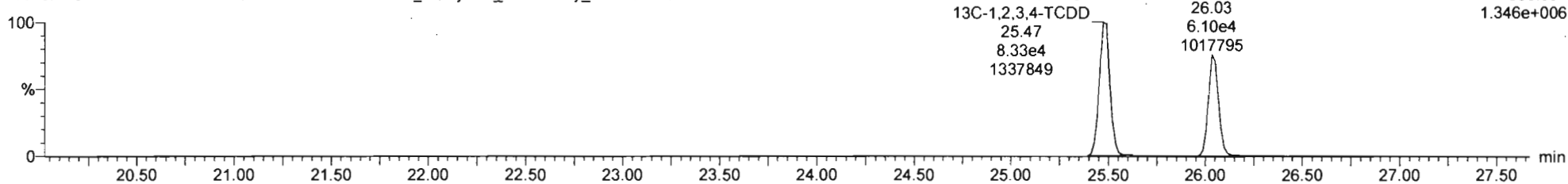
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191212D2_8

1904021-01 PDI-1142RAB-20-30.4-191112 11.65 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19 1904021-01 PDI-1142RAB-20-30.4-191112

F1:SIR of 15 channels,EI+
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1.346e+006



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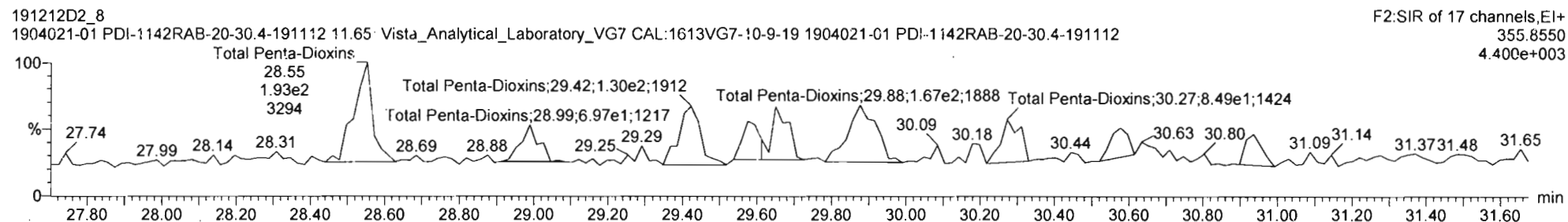
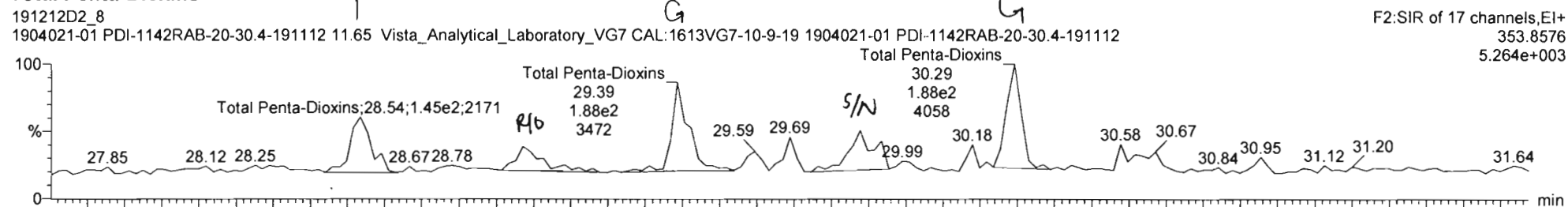
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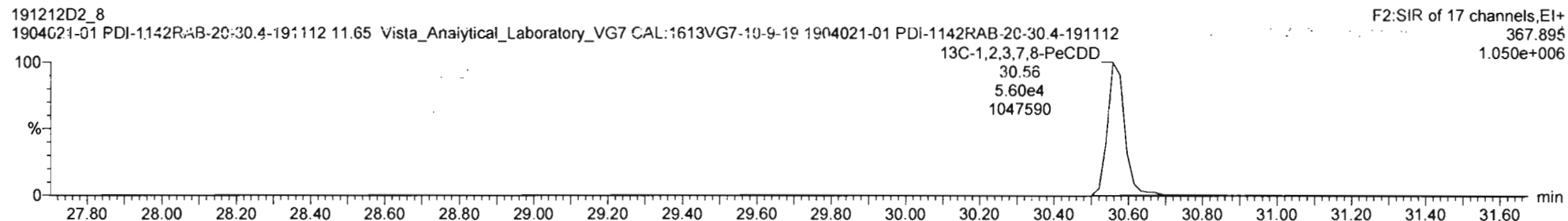
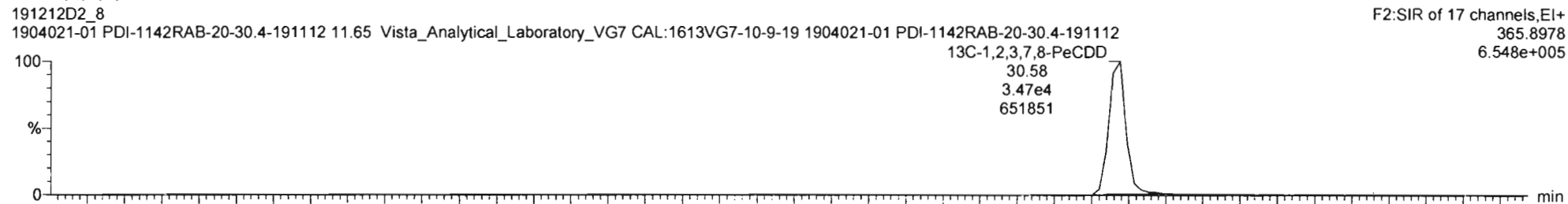
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Name: 191212D2_8, Date: 13-DEC-2019, Time: 06:31:22, ID: 1904021-01 PDI-1142RAB-20-30.4-191112, Description: 1904021-01 PDI-1142RAB-20-30.4-191112 11.65 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

Total Penta-Dioxins

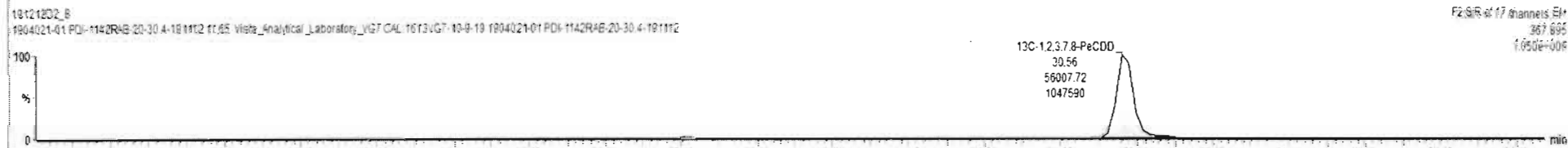
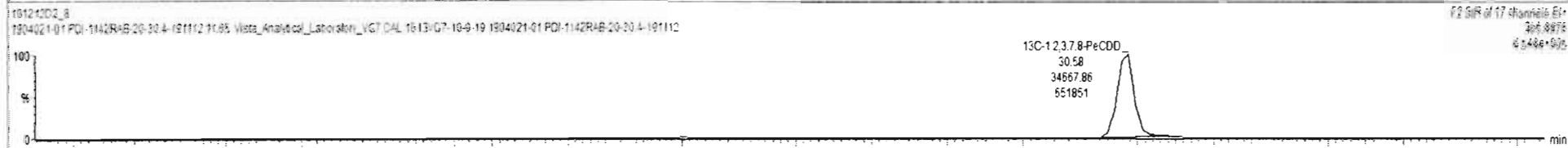
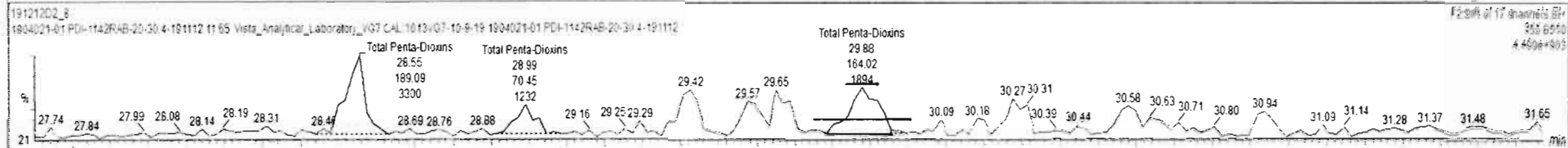
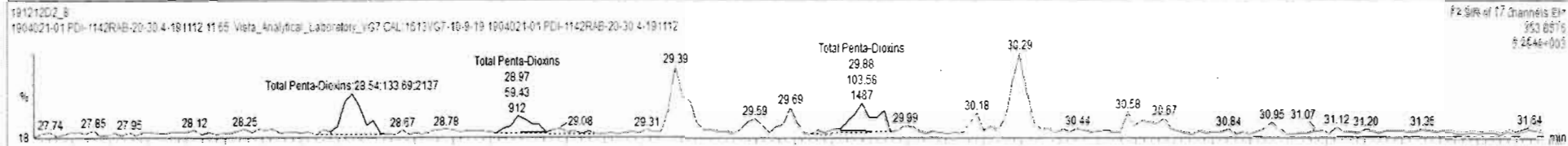


13C-1,2,3,7,8-PeCDD



#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wtVol	Pred RT	RT	RRT	Pred.RRT	Check RRT	Conc	%Rec	DL	EMPC
39	39 Total Tetra-Dioxins		1.06e5				0.901	10.114	25.50			0.000	NO			0.128	
40	40 Total Penta-Dioxins		9.07e4				0.872	10.114	30.00			0.000	NO	1.476		0.324	1.783
41	41 Total Hexa-Dioxins		0.00e0				0.978	10.114	33.80			0.000	NO	21.40		0.447	24.19
42	42 Total Hepta-Dioxins		8.55e4				0.989	10.114	37.75			0.000	NO	218.1		0.883	218.4
43	43 Total Tetra-Furans		1.58e5				0.943	10.114	24.00			0.000	NO	3.477		0.276	7.254

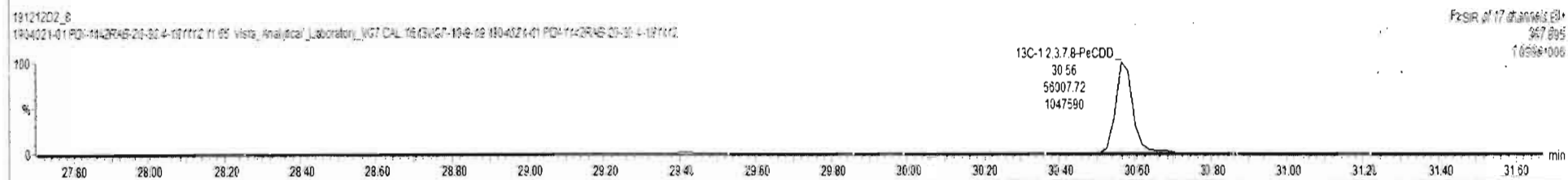
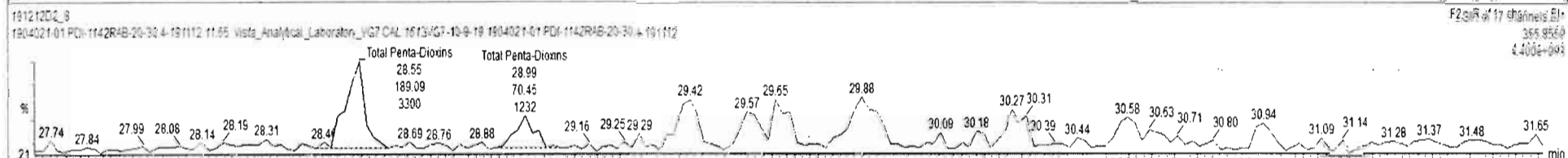
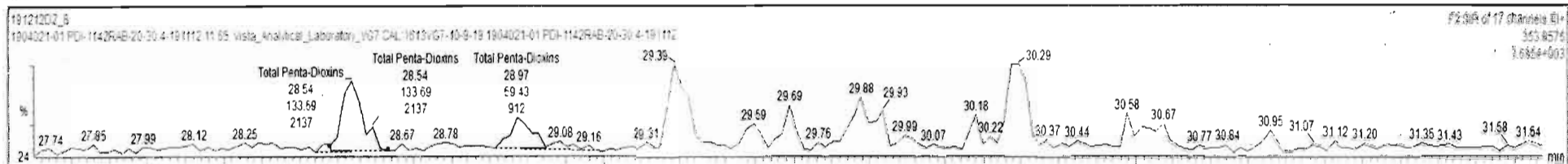
#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc
1	40 Total Penta-Dioxins	30.00	28.54	1.137e2	1.691e2	0.630	0.71	NO	0.80793	0.60793
2	40 Total Penta-Dioxins	30.00	28.97	5.943e1	7.945e1	0.630	0.84	YES	0.28710	0.00000
3	40 Total Penta-Dioxins	30.00	29.86	1.036e2	1.640e2	0.630	0.63	NO	0.66908	0.66908



191212D2_8 - 1904021-01 PDI-1142RAB-20-30 4-191112 - 1904021-01 PDI-1142RAB-20-30 4-191112 11.65 Vista_Analytical_Laboratory_VG7 CAL 1613VG7-10-9-19

#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wVol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins		1.06e5				0.801	10.114	25.50			0.000	NO			9.130	
40	Total Penta-Dioxins		9.07e4				0.872	10.114	30.00			0.000	NO	0.8270		0.324	1.054
41	Total Hexa-Dioxins		0.00e0				0.976	10.114	33.00			0.000	NO	21.40		6.447	24.19
42	Total Hepta-Dioxins		8.55e4				0.989	10.114	37.75			0.000	NO	218.1		0.653	218.4
43	Total Tetra-Furans		1.59e5				0.943	10.114	24.00			0.000	NO	3.477		0.276	7.254

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	Total Penta-Dioxins	30.00	28.54	1.337e2	1.891e2	0.630	0.71	NO	0.80703	0.80703
2	Total Penta-Dioxine	30.00	28.97	5.943e1	7.045e1	0.630	0.84	YES	0.28710	0.00000



Vista Analytical Laboratory

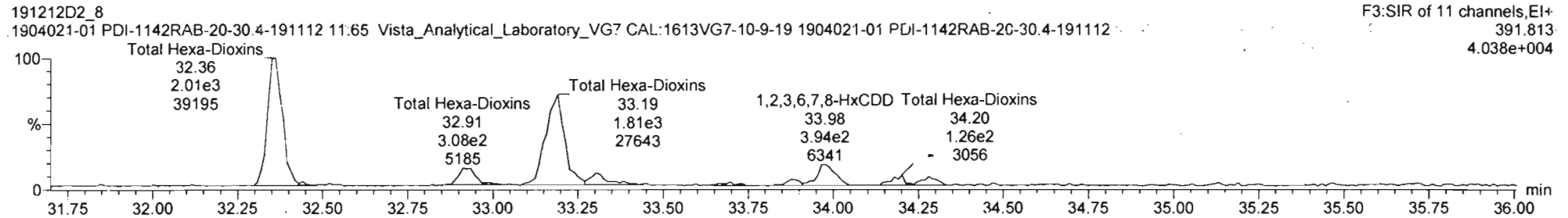
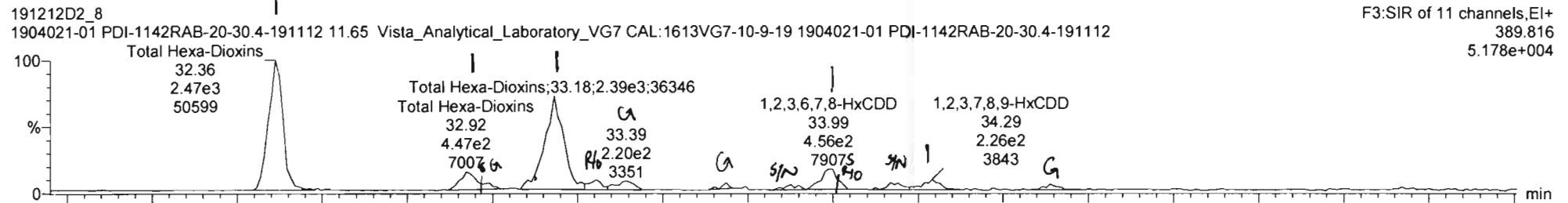
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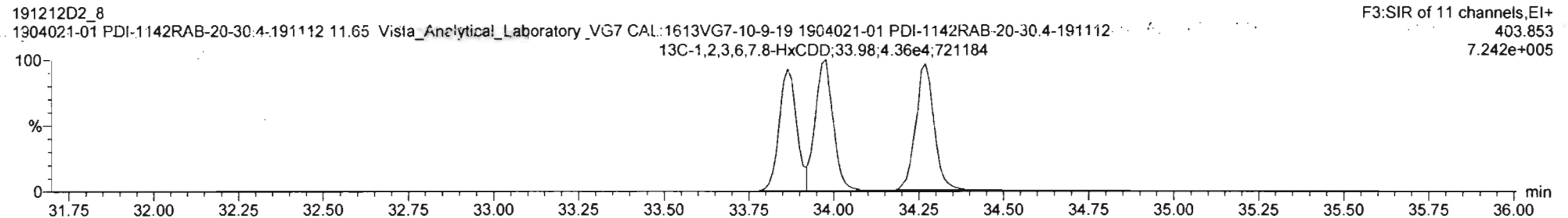
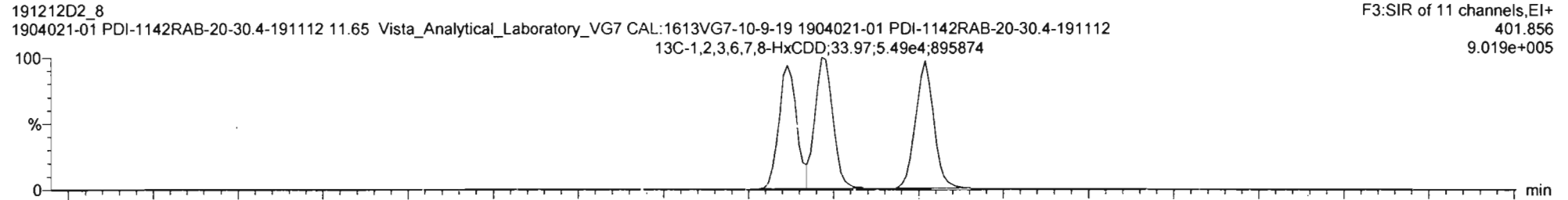
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Name: 191212D2_8, Date: 13-DEC-2019, Time: 06:31:22, ID: 1904021-01 PDI-1142RAB-20-30.4-191112, Description: 1904021-01 PDI-1142RAB-20-30.4-191112 11.65 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

Total Hexa-Dioxins



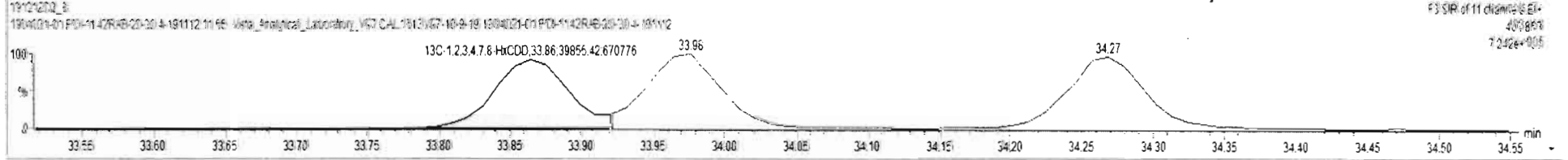
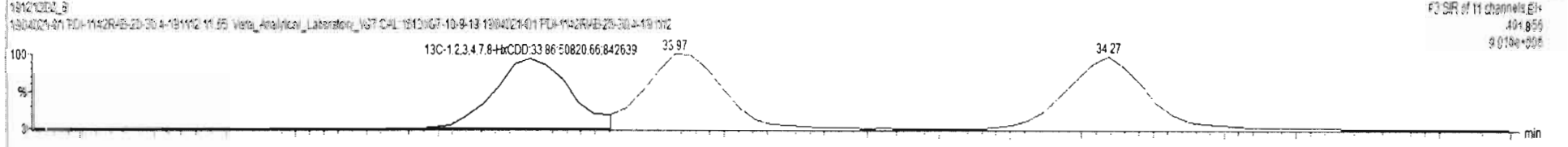
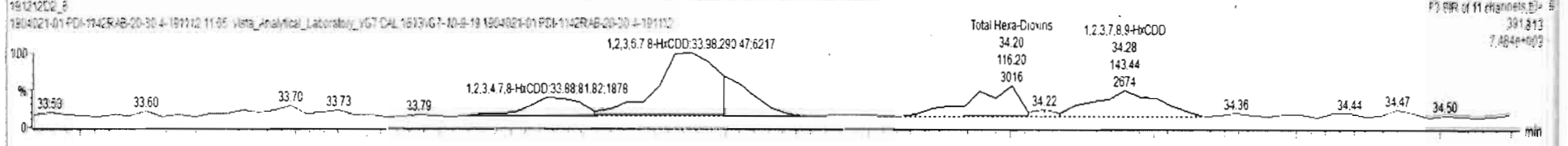
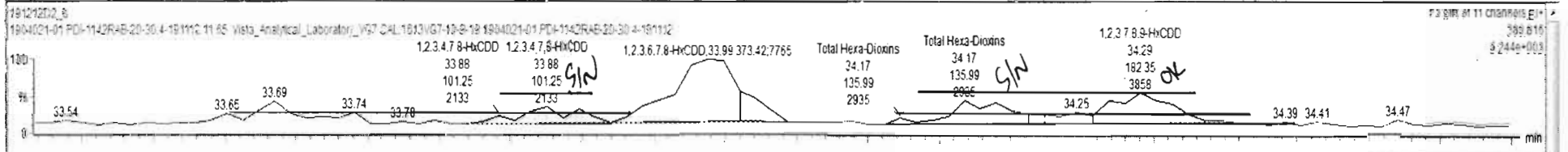
13C-1,2,3,4,7,8-HxCDD



191212D2_8 - 1904021-01 PDI-1142RAB-20-30 4-191112 - 1904021-01 PDI-1142RAB-20-30 4-191112 11.65 Vista_Analytical_Laboratory_VG7 CAL 1613VG7-10-9-19

#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	Check RRT	Conc	%Rec	DL	EMPC
18	13C-2,3,7,8-TCDD	1.09e5	1.50e5	36	0.79	NO	1.095	10.114	26.01	26.05	1.023	1.021	NO	131.3	66.4	0.473	
19	13C-1,2,3,7,8-PeCDD	9.07e4	1.50e5	36	0.62	NO	0.881	10.114	30.23	30.58	1.260	1.187	NO	135.9	66.7	0.319	
20	13C-1,2,3,4,7,8-HxCDD	9.07e4	1.50e5	38	1.28	NO	0.642	10.114	33.86	33.86	1.014	1.014	NO	147.2	74.5	0.519	
21	13C-1,2,3,6,7,8-HxCDD	9.85e4	1.90e5	38	1.26	NO	0.856	10.114	33.97	33.97	1.017	1.017	NO	120.0	60.7	0.389	
22	13C-1,2,3,7,8,9-HxCDD	9.80e4	1.90e5	38	1.23	NO	0.807	10.114	34.27	34.27	1.026	1.026	NO	126.6	64.0	0.413	
23	13C-1,2,3,4,6,7,8-HpCDD	8.55e4	1.90e5	38	1.07	NO	0.654	10.114	37.81	37.74	1.130	1.126	NO	138.3	68.9	0.748	

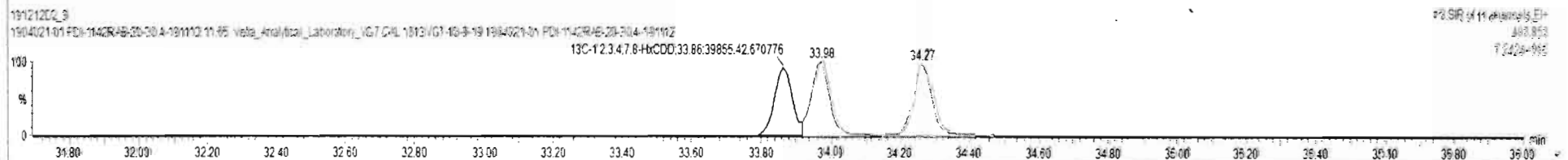
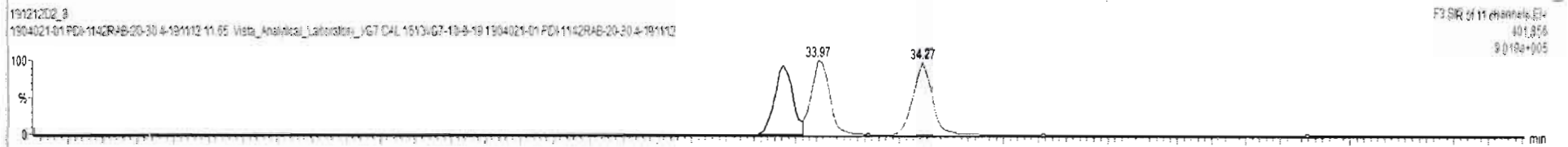
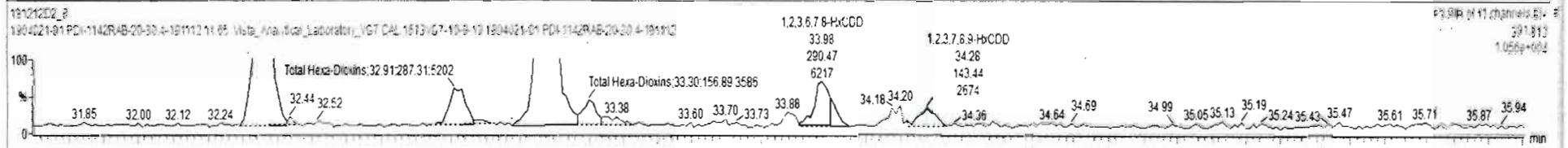
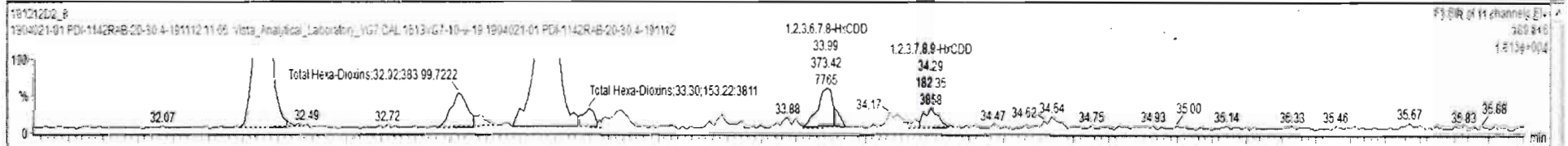
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc
1	41 Total Hexa-Dioxins	33.80	32.36	2.452e3	1.992e3	1.240	1.23	NO	9.4278	9.4278
2	41 Total Hexa-Dioxins	33.80	32.92	3.849e2	2.873e2	1.240	1.34	NO	1.4210	1.4210
3	41 Total Hexa-Dioxins	33.80	33.18	2.389e3	1.813e3	1.240	1.32	NO	8.8931	8.8931
4	41 Total Hexa-Dioxins	33.80	33.30	1.532e2	1.569e2	1.240	0.98	YES	0.58587	0.00000
5	3 1,2,3,4,7,8-HxCDD	33.87	33.88	1.813e2	8.182e1	1.240	1.24	NO	0.36251	0.36251
6	4 1,2,3,6,7,8-HxCDD	33.97	33.99	3.734e2	2.905e2	1.240	1.29	NO	1.4199	1.4199
7	41 Total Hexa-Dioxins	33.80	34.01	6.888e1	9.248e1	1.240	0.74	YES	0.26308	0.00000
8	41 Total Hexa-Dioxins	33.80	34.17	1.360e2	1.162e2	1.240	1.17	NO	0.53381	0.53381
9	5 1,2,3,7,8,9-HxCDD	34.30	34.29	1.824e2	1.434e2	1.240	1.27	NO	0.68392	0.68392



191212D2_8 - 1904021-01 PDI-1142RAB-20-30.4-191112 - 1904021-01 PDI-1142RAB-20-30.4-191112 11.65 Vista_Analytical_Laboratory_VG7 CAL 1613VG7-10-9-19

#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wVvol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	EMPC
18	18 13C-1,2,3,7,8-TCDD	1.09e5	1.50e5	36	0.79	NO	1.095	10.114	26.01	26.05	1.023	1.021	NO	131.3	66.4	0.473	
19	19 13C-1,2,3,7,8-PeCDD	9.07e4	1.50e5	36	0.62	NO	0.881	10.114	30.23	30.58	1.200	1.187	NO	135.8	88.7	0.319	
20	20 13C-1,2,3,4,7,8-HxCDD	9.07e4	1.50e5	36	1.28	NO	0.642	10.114	33.86	33.86	1.014	1.014	NO	147.2	74.5	0.519	
21	21 13C-1,2,3,6,7,8-HxCDD	9.85e4	1.90e5	36	1.26	NO	0.856	10.114	33.97	33.97	1.017	1.017	NO	120.6	60.7	0.389	
22	22 13C-1,2,3,7,8,9-HxCDD	9.80e4	1.90e5	36	1.23	NO	0.807	10.114	34.27	34.27	1.026	1.026	NO	126.6	64.0	0.413	
23	23 13C-1,2,3,4,6,7,8-HpCDD	8.55e4	1.90e5	36	1.07	NO	0.654	10.114	37.61	37.74	1.130	1.126	NO	138.3	88.9	0.746	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	41 Total Hexa-Dioxins	33.80	32.36	2.458e3	1.998e3	1.240	1.23	NO	9.4276	9.4276
2	41 Total Hexa-Dioxins	33.60	32.92	3.940e2	2.873e2	1.240	1.34	NO	1.4210	1.4210
3	41 Total Hexa-Dioxins	33.60	33.18	2.389e3	1.813e3	1.240	1.32	NO	8.8551	8.8901
4	41 Total Hexa-Dioxins	33.80	33.30	1.532e2	1.598e2	1.240	0.96	YES	0.85887	0.00000
5	4 1,2,3,6,7,8-HxCDD	33.97	33.99	3.734e2	2.965e2	1.240	1.29	NO	1.4199	1.4199
6	41 Total Hexa-Dioxins	33.80	34.01	6.888e1	9.249e1	1.240	0.74	YES	0.26338	0.00000
7	5 1,2,3,7,8,9-HxCDD	34.30	34.29	1.824e2	1.434e2	1.240	1.27	NO	0.88392	0.88392



Custom Reporting: Select reports to generate

191212D2_8

CAP NUM

Vista Analytical Laboratory

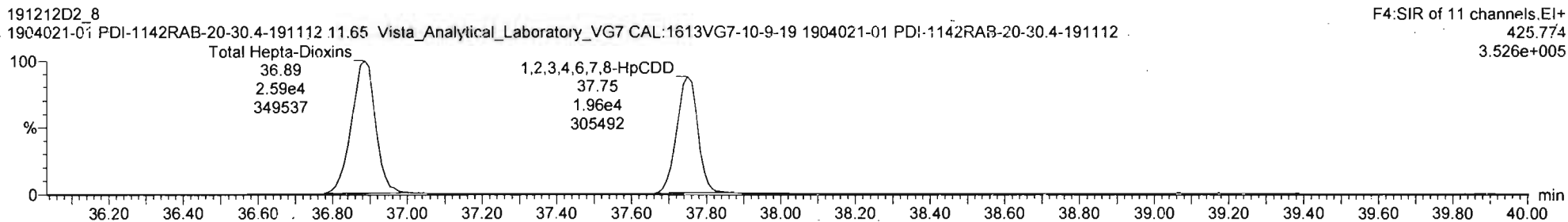
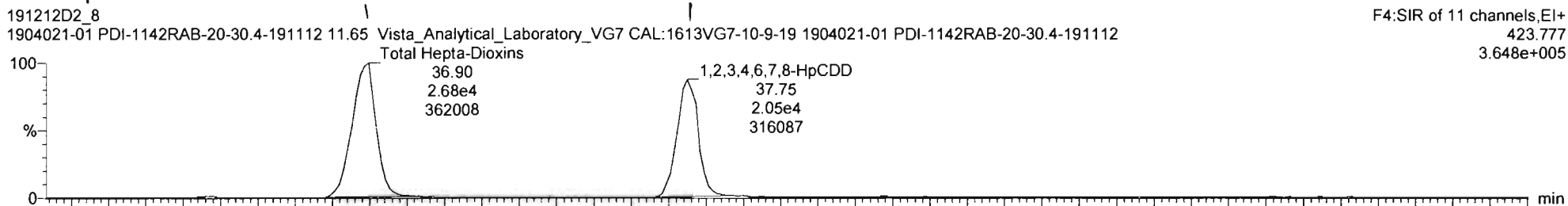
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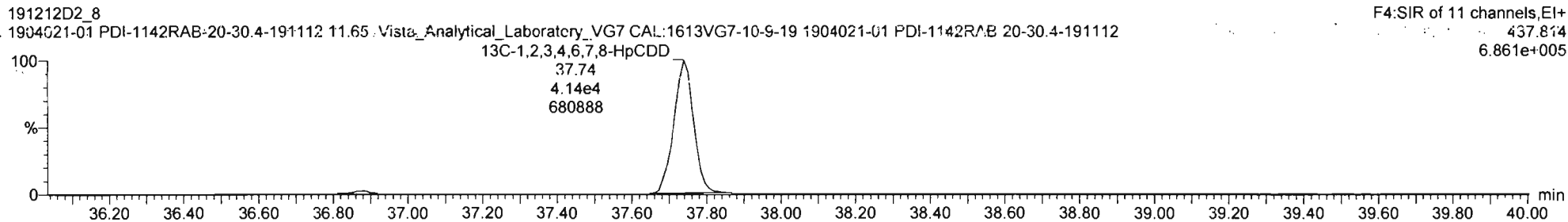
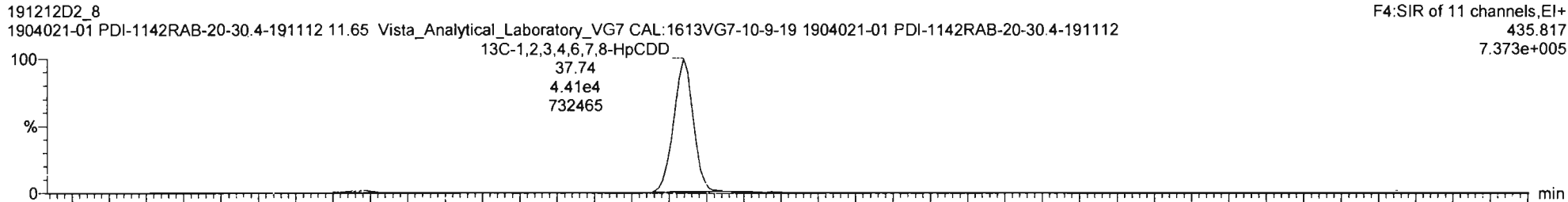
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Name: 191212D2_8, Date: 13-DEC-2019, Time: 06:31:22, ID: 1904021-01 PDI-1142RAB-20-30.4-191112,
Description: 1904021-01 PDI-1142RAB-20-30.4-191112 11.65 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

Total Hepta-Dioxins



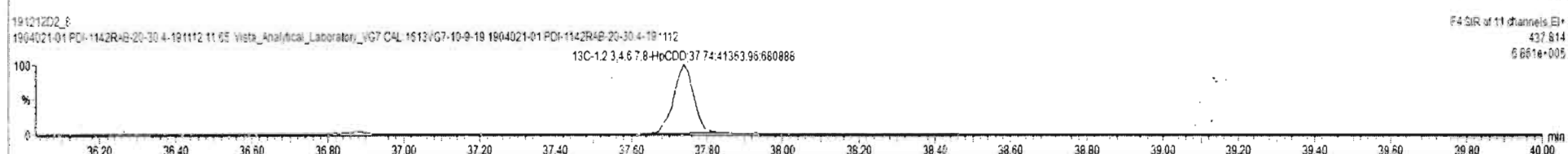
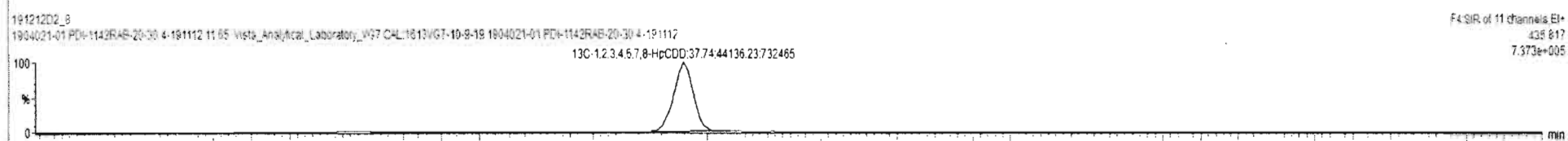
¹³C-1,2,3,4,6,7,8-HpCDD



19121202_8 - 1904021-01 PDI-1142RAB-20-30 4-191112 - 1904021-01 PDI-1142RAB-20-30 4-191112 11.65 Vista_Analytical_Laboratory_VG7 CAL 1613VG7-10-9-19

#	Name	Resp	IS Resp	IS#	RA	n/y	RPF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	Check RRT	Conc	%Rec	DL	EMPC
42	Total Hepta-Dioxins		8.55e4				0.969	10.114	37.75			0.000	NO	220.5		0.893	220.5
43	Total Tetra-Furans		1.50e5				0.943	10.114	24.00			0.000	NO	3.477		0.276	7.254
44	1st Func. Penta-Furans		0.00e0				0.940	10.114	27.63			0.000	NO	3.447		0.101	3.447
45	Total Penta-Furans		0.00e0				0.940	10.114	30.00			0.000	NO	14.56		0.245	15.74
46	Total Hexa-Furans		0.00e0				1.078	10.114	33.00			0.000	NO	13.21		0.312	14.42
47	Total Hepta-Furans		0.00e0				1.135	10.114	37.75			0.000	NO	23.65		0.333	23.65

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	42 Total Hepta-Dioxins	37.75	36.90	2.720e4	2.602e4	1.040	1.05	NO	124.50	124.50
2	6 1,2,3,4,6,7,8-HpCDD	37.75	37.75	2.085e4	1.979e4	1.040	1.05	NO	95.581	95.581

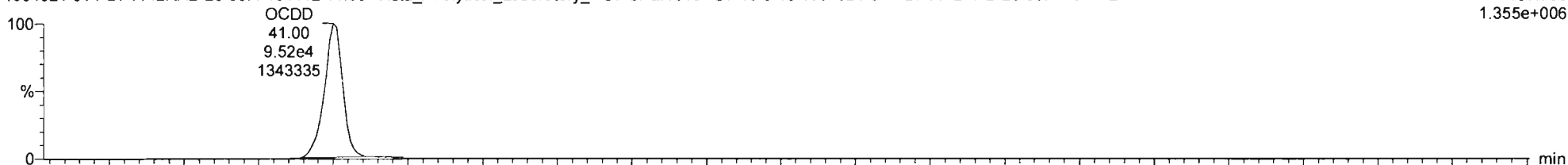


Name: 191212D2_8, Date: 13-DEC-2019, Time: 06:31:22, ID: 1904021-01 PDI-1142RAB-20-30.4-191112,
Description: 1904021-01 PDI-1142RAB-20-30.4-191112 11.65 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

OCDD

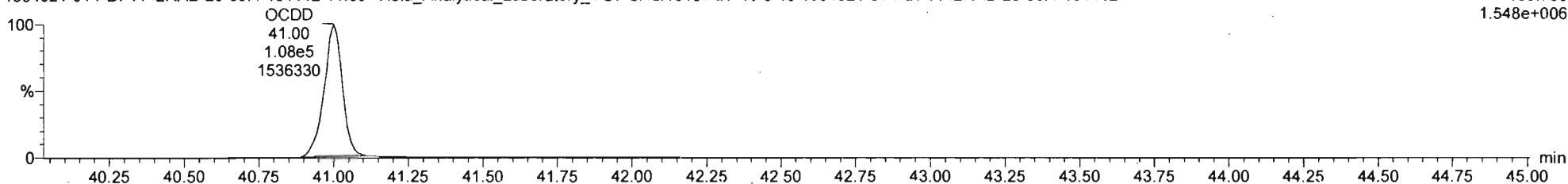
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F5:SIR of 11 channels,EI+
457.738
1.355e+006



191212D2_8
1904021-01 PDI-1142RAB-20-30.4-191112 11.65 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19 1904021-01 PDI-1142RAB-20-30.4-191112

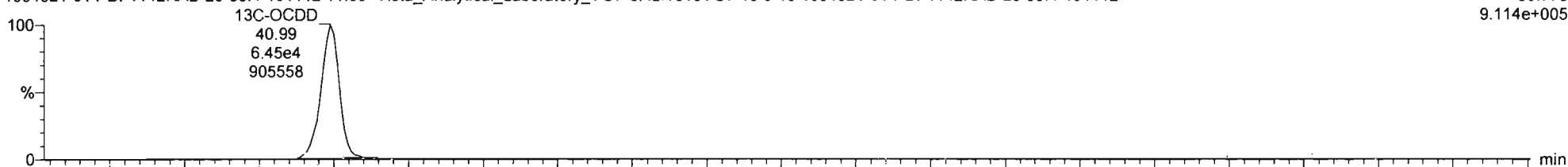
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459.735
1.548e+006



13C-OCDD

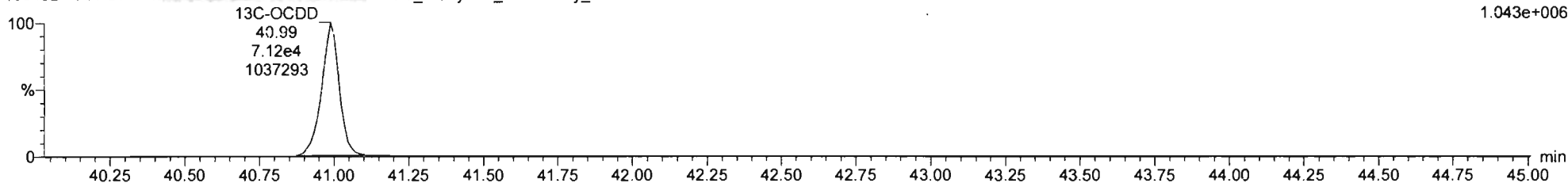
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F5:SIR of 11 channels,EI+
469.778
9.114e+005



191212D2_8
1904021-01 PDI-1142RAB-20-30.4-191112 11.65 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19 1904021-01 PDI-1142RAB-20-30.4-191112

F5:SIR of 11 channels,EI+
471.775
1.043e+006



Vista Analytical Laboratory

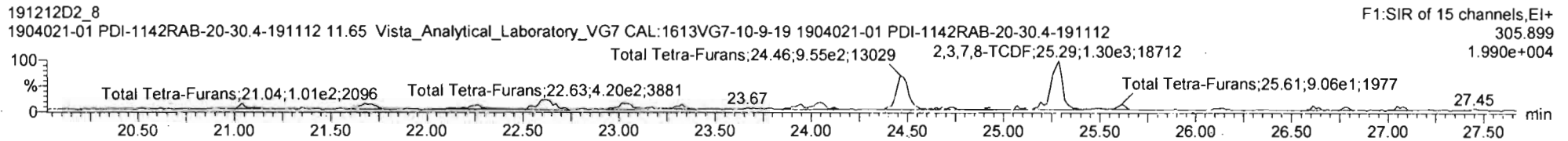
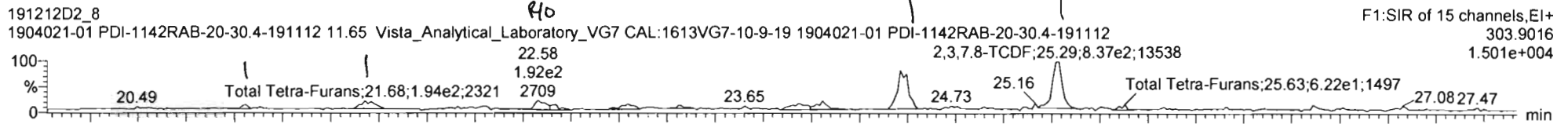
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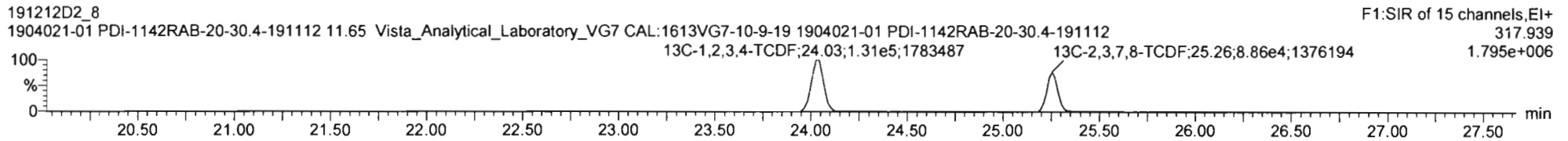
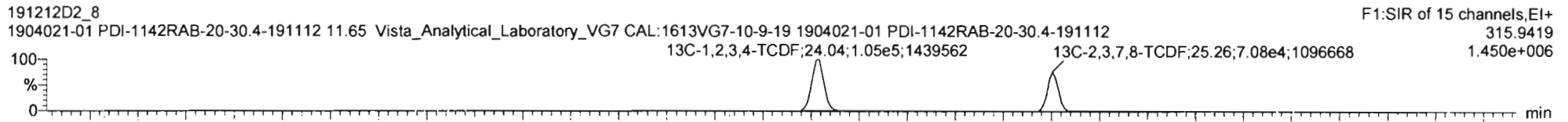
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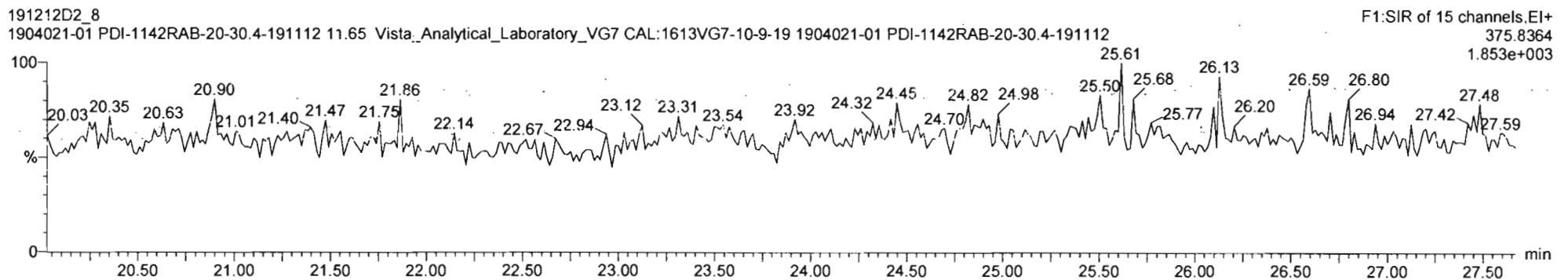
Total Tetra-Furans



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



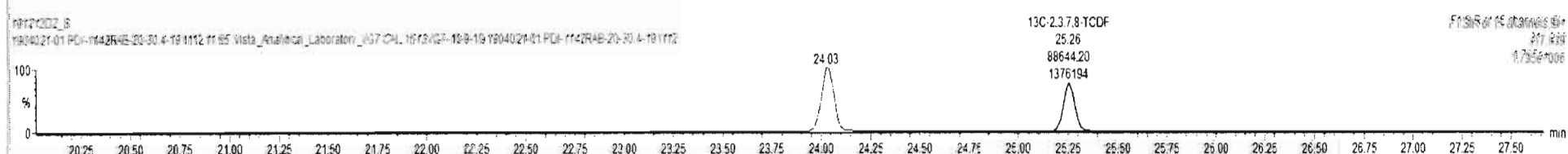
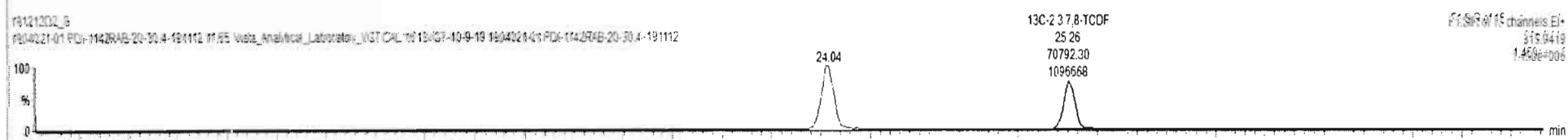
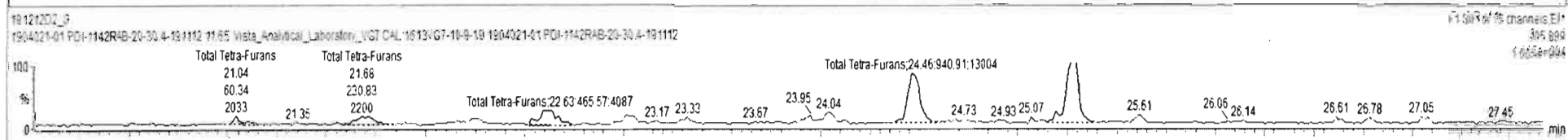
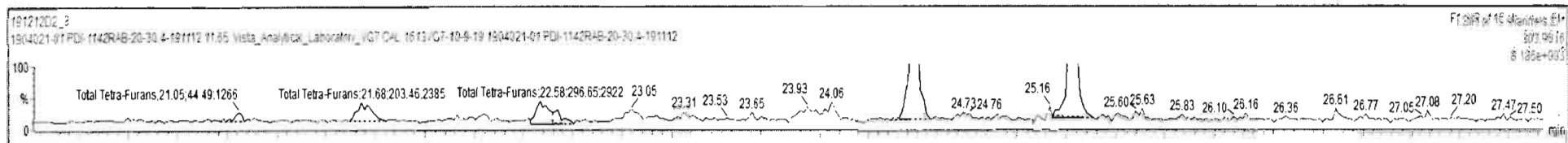
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191212D2_8 - 1904021-01 PDI-1142RAB-20-30 4-191112 - 1904021-01 PDI-1142RAB-20-30 4-191112 11.65 Vista_Analytical_Laboratory_VG7 CAL 1613VG7-10-9-19

#	Name	Resp	S Resp	IS#	RA	n/y	RRF	wt/vol	Pred RT	RT	RRT	Pred.RRT	Check RRT	Conc	%Rec	DL	EMPC
30	13C-2,3,4,6,7,8-HxCDF	1.16e5	1.90e5	38	0.50	NO	0.953	10.114	33.70	33.70	1.009	1.009	NO	126.7	64.1	0.732	
31	13C-1,2,3,7,8,9-HxCDF	1.08e5	1.90e5	36	0.49	NO	0.828	10.114	34.65	34.65	1.038	1.038	NO	135.2	66.9	0.843	
32	13C-1,2,3,4,6,7,8-HpCDF	9.14e4	1.90e5	38	0.44	NO	0.757	10.114	36.48	36.48	1.092	1.092	NO	125.6	62.6	0.599	
33	13C-1,2,3,4,7,8,9-HpCDF	7.83e4	1.90e5	36	0.42	NO	0.591	10.114	38.17	38.28	1.146	1.143	NO	140.5	71.0	0.742	
34	13C-OCDF	1.67e5	1.90e5	38	0.85	NO	0.669	10.114	41.18	41.21	1.234	1.233	NO	252.0	63.7	0.401	
35	37Cl-2,3,7,8-TCDD	6.16e4	1.50e5	36			1.198	10.114	26.03	26.06	1.023	1.022	NO	67.92	65.9	0.159	
36	13C-1,2,3,4-TCDD	1.50e5	1.50e5	36	0.80	NO	1.000	10.114	25.50	25.47	1.000	1.000	NO	197.7	100	0.518	
37	13C-1,2,3,4-TCDF	2.36e5	2.36e5	37	0.80	NO	1.000	10.114	24.06	24.04	1.000	1.000	NO	197.7	100	0.445	
38	13C-1,2,3,4,6,9-HxCDF	1.90e5	1.90e5	38	0.52	NO	1.000	10.114	33.42	33.39	1.000	1.000	NO	197.7	100	0.698	
39	Total Tetra-Dioxins		1.09e5				0.901	10.114	25.50			0.000	NO			0.126	
40	Total Penta-Dioxins		9.07e4				0.872	10.114	30.00			0.000	NO	0.8970		0.324	1.064
41	Total Hexa-Dioxins		0.30e0				0.976	10.114	33.80			0.000	NO	21.65		0.447	22.69
42	Total Hepta-Dioxins		6.55e4				0.989	10.114	37.75			0.000	NO	220.5		0.892	220.5
43	Total Tetra-Furans		1.50e5				0.943	10.114	24.00			0.000	NO	5.746		0.276	6.646

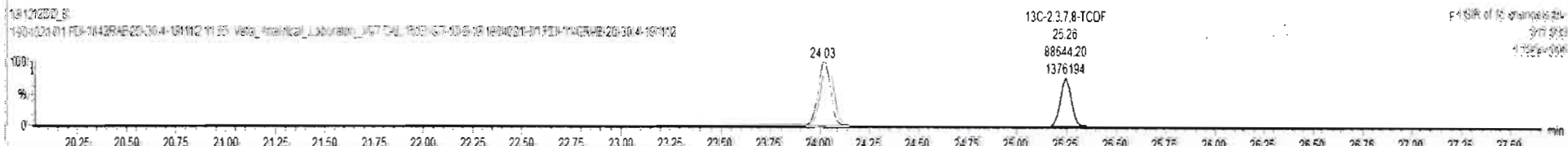
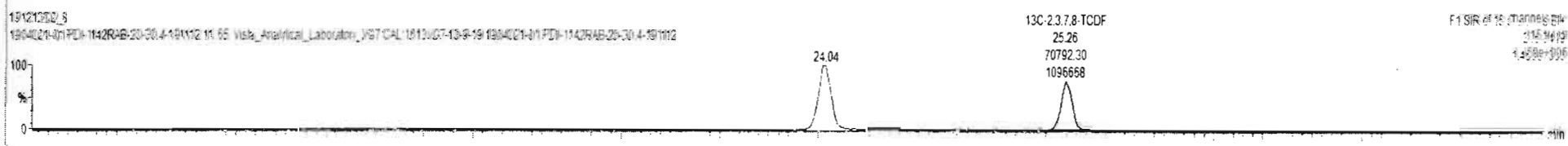
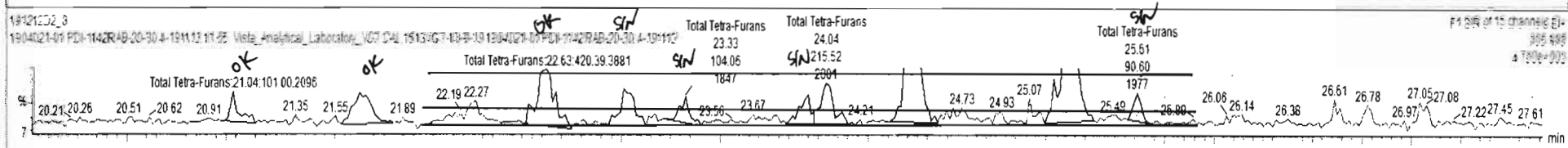
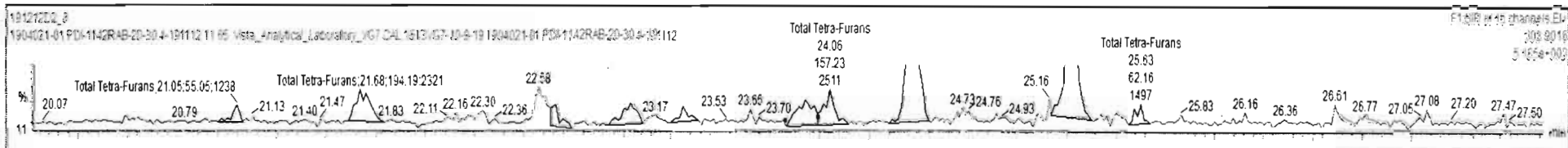
#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc
1	43 Total Tetra-Furans	24.00	21.05	4.443e1	6.834e1	0.770	0.74	NO	0.13790	0.13790
2	43 Total Tetra-Furans	24.00	21.68	2.935e2	2.305e2	0.770	0.88	NO	0.57130	0.57130
3	43 Total Tetra-Furans	24.00	22.58	2.967e2	4.656e2	0.770	0.64	YES	0.89704	0.00000
4	43 Total Tetra-Furans	24.00	24.46	7.220e2	9.409e2	0.770	0.77	NO	2.1876	2.1876
5	8 2,3,7,8-TCDF	25.28	25.29	8.694e2	1.316e3	0.770	0.66	NO	2.8521	2.8521



19121202_8 - 1904021-01 PDI-1142RAB-20-30 4-191112 - 1904021-01 PDI-1142RAB-20-30 4-191112 11 65 Vista_Analytical_Laboratory_VG7 CAL 1613VG7-10-9-19

#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wtVol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	EMPC
30	13C-2,3,4,6,7,8-HxCDF	1.16e5	1.90e5	38	0.50	NO	0.953	10.114	33.70	33.70	1.009	1.009	NO	126.7	64.1	0.732	
31	13C-1,2,3,7,8,9-HxCDF	1.08e5	1.90e5	38	0.49	NO	0.828	10.114	34.89	34.85	1.038	1.038	NO	136.2	68.9	0.843	
32	13C-1,2,3,4,6,7,8-HpCDF	9.14e4	1.90e5	38	0.44	NO	0.757	10.114	36.49	36.48	1.092	1.093	NO	125.8	63.6	0.569	
33	13C-1,2,3,4,7,8,9-HpCDF	7.83e4	1.90e5	38	0.42	NO	0.581	10.114	38.17	39.28	1.146	1.143	NO	140.5	71.0	0.742	
34	13C-OCDF	1.67e5	1.90e5	38	0.85	NO	0.609	10.114	41.18	41.21	1.234	1.233	NO	252.0	63.7	0.401	
35	37Cl-2,3,7,8-TCDD	6.16e4	1.50e5	36			1.198	10.114	26.03	26.06	1.023	1.022	NO	67.92	85.9	0.159	
36	13C-1,2,3,4-TCDD	1.50e5	1.50e5	36	0.80	NO	1.000	10.114	25.50	25.47	1.000	1.000	NO	197.7	100	0.518	
37	13C-1,2,3,4-TCDF	2.36e5	2.36e5	37	0.80	NO	1.000	10.114	24.06	24.04	1.000	1.000	NO	197.7	100	0.445	
38	13C-1,2,3,4,6,8-HxCDF	1.90e5	1.90e5	38	0.52	NO	1.000	10.114	33.42	33.39	1.000	1.000	NO	197.7	100	0.666	
39	Total Tetra-Dioxins	1.06e5					0.901	10.114	25.50			0.000	NO			0.128	
40	Total Penta-Dioxins	9.07e4					0.872	10.114	30.00			0.000	NO	0.6076		0.324	1.094
41	Total Hexa-Dioxins	0.00e0					0.976	10.114	33.80			0.000	NO	21.65		0.447	22.69
42	Total Hepta-Dioxins	8.55e4					0.989	10.114	37.75			0.000	NO	220.5		0.860	220.5
43	Total Tetra-Furans	1.50e5					0.943	10.114	24.00			0.000	NO	3.477		0.276	7.754

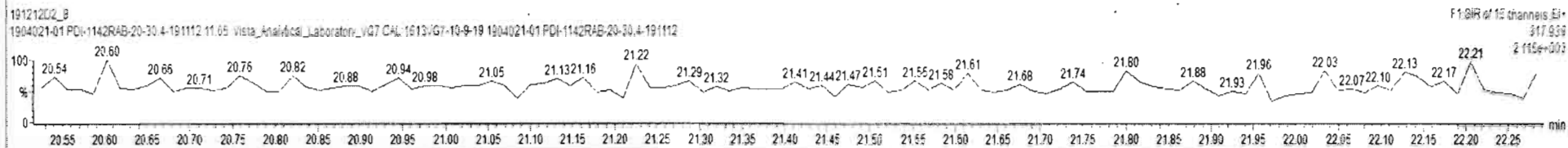
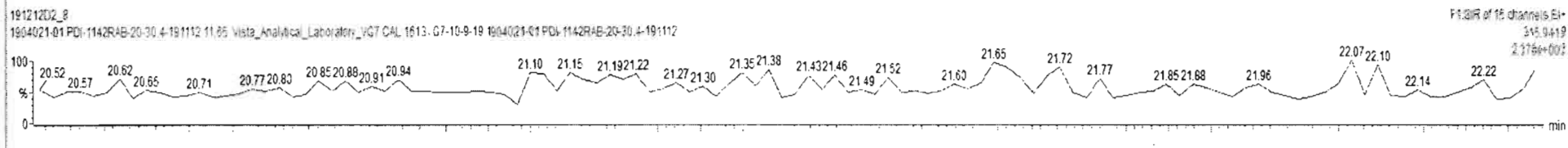
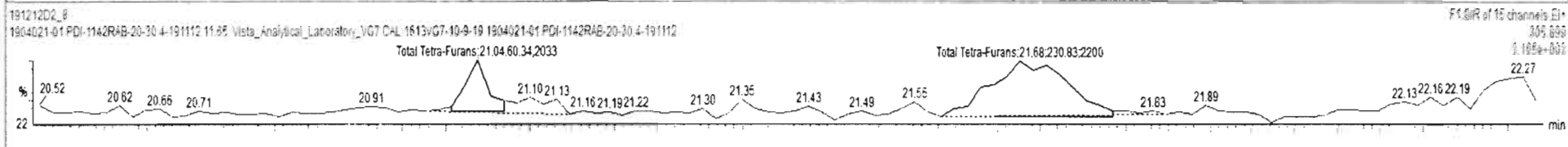
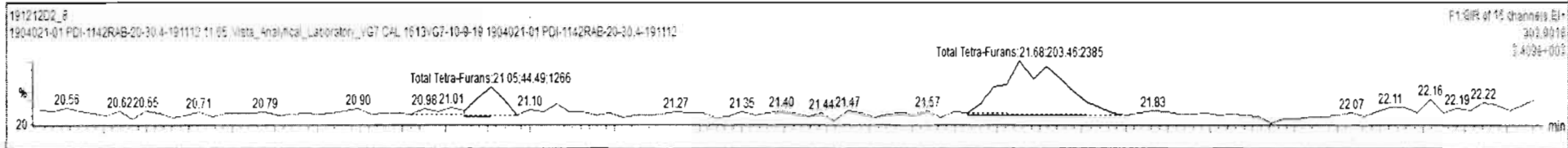
#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	43 Total Tetra-Furans	24.00	21.05	5.505e1	1.019e2	0.770	0.55	YES	0.16648	0.00000
2	43 Total Tetra-Furans	24.00	21.68	1.942e2	2.311e2	0.770	0.84	NO	0.55944	0.55944
3	43 Total Tetra-Furans	24.00	22.67	8.552e1	4.704e2	0.770	0.26	YES	0.25864	0.00000
4	43 Total Tetra-Furans	24.00	23.05	1.272e2	2.136e2	0.770	0.80	YES	0.38455	0.00000
5	43 Total Tetra-Furans	24.00	23.31	5.213e1	1.041e2	0.770	0.50	YES	0.15763	0.00000
6	43 Total Tetra-Furans	24.00	23.93	1.752e2	1.275e2	0.770	1.46	YES	0.29788	0.00000



191212D2_8 - 1904021-01 PDI-1142RAB-20-30.4-191112 - 1904021-01 PDI-1142RAB-20-30.4-191112 11.65 Vista_Analytical_Laboratory_VG7 CAL 1613VG7-10-9-19

#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wtvol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	EMPC
30	13C-2,3,4,6,7,8-HxCDF	1.16e5	1.90e5	38	0.50	NO	0.993	10.114	33.70	33.70	1.009	1.009	NO	128.7	64.1	0.732	
31	13C-1,2,3,7,8,9-HxCDF	1.08e5	1.90e5	38	0.49	NO	0.828	10.114	34.89	34.85	1.038	1.038	NO	135.2	68.9	0.845	
32	13C-1,2,3,4,6,7,8-HpCDF	9.14e4	1.90e5	38	0.44	NO	0.757	10.114	36.49	36.48	1.092	1.093	NO	125.8	63.6	0.589	
33	13C-1,2,3,4,7,8,9-HpCDF	7.83e4	1.90e5	38	0.42	NO	0.581	10.114	38.17	38.28	1.146	1.143	NO	140.5	71.0	0.742	
34	13C-OCDF	1.87e5	1.90e5	38	0.85	NO	0.689	10.114	41.18	41.21	1.234	1.233	NO	252.0	83.7	0.431	
35	37Cl-2,3,7,8-TCDD	6.16e4	1.50e5	36			1.198	10.114	26.03	26.06	1.023	1.022	NO	67.92	65.9	0.159	
36	13C-1,2,3,4-TCDD	1.50e5	1.50e5	36	0.80	NO	1.000	10.114	25.50	25.47	1.060	1.000	NO	197.7	100	0.516	
37	13C-1,2,3,4-TCDF	2.36e5	2.36e5	37	0.80	NO	1.000	10.114	24.06	24.04	1.060	1.000	NO	197.7	100	0.445	
38	13C-1,2,3,4,6,8-HxCDF	1.90e5	1.90e5	38	0.52	NO	1.000	10.114	33.42	33.39	1.060	1.000	NO	197.7	100	0.698	
39	Total Tetra-Dioxins		1.08e5				0.901	10.114	25.50			0.000	NO			0.126	
40	Total Penta-Dioxins		9.07e4				0.872	10.114	20.00			0.000	NO	0.8070		0.324	1.094
41	Total Hexa-Dioxins		0.00e0				0.976	10.114	33.80			0.000	NO	21.85		0.447	22.69
42	Total Hepta-Dioxins		8.55e4				0.989	10.114	37.75			0.000	NO	220.5		0.893	220.5
43	Total Tetra-Furans		1.50e5				0.643	10.114	24.00			0.000	NO	5.749		0.276	6.846

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc
1	43 Total Tetra-Furans	24.00	21.05	4.449e1	6.034e1	0.770	0.74	NO	0.13790	0.13790
2	43 Total Tetra-Furans	24.00	21.68	2.035e2	2.305e2	0.770	0.88	NO	0.57130	0.57130
3	43 Total Tetra-Furans	24.00	22.58	2.967e2	4.656e2	0.770	0.64	YES	0.89794	0.60000
4	43 Total Tetra-Furans	24.00	24.48	7.220e2	9.409e2	0.770	0.77	NO	2.1876	2.1876
5	8 2,3,7,8-TCDF	25.28	25.29	8.684e2	1.316e3	0.770	0.66	NO	2.8521	2.8521



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Dataset: Untitled

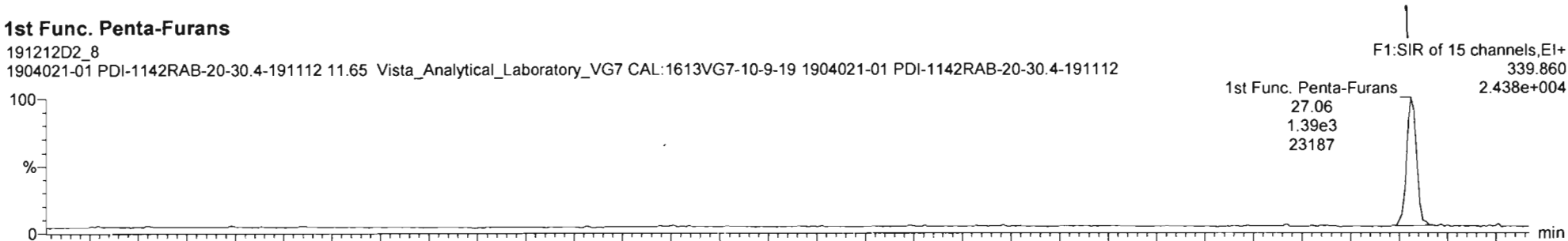
Last Altered: Tuesday, December 17, 2019 09:53:12 Pacific Standard Time

Printed: Tuesday, December 17, 2019 09:53:46 Pacific Standard Time

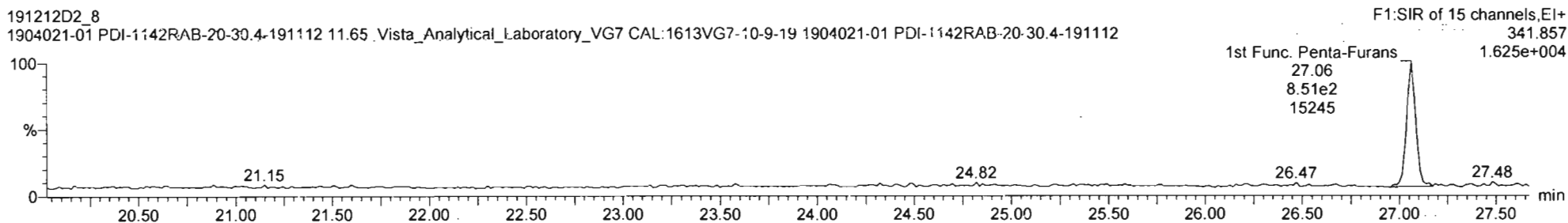
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Description: 1904021-01 PDI-1142RAB-20-30.4-191112 11.65 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

1st Func. Penta-Furans

191212D2_8
1904021-01 PDI-1142RAB-20-30.4-191112 11.65 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19 1904021-01 PDI-1142RAB-20-30.4-191112

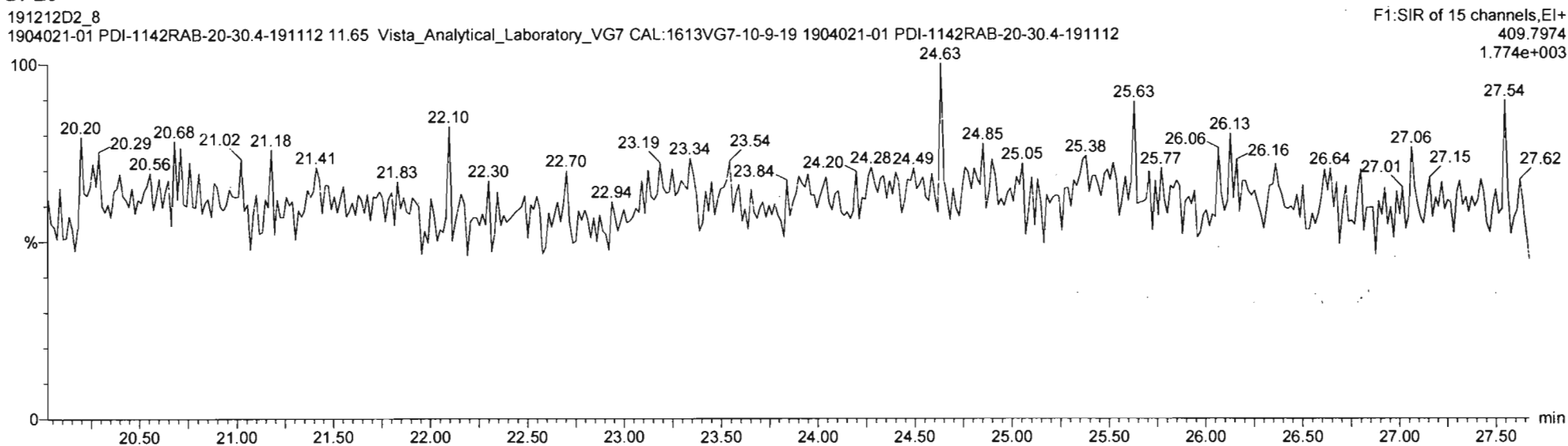


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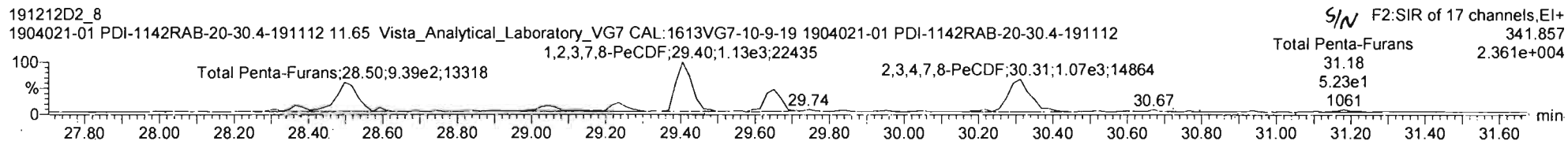
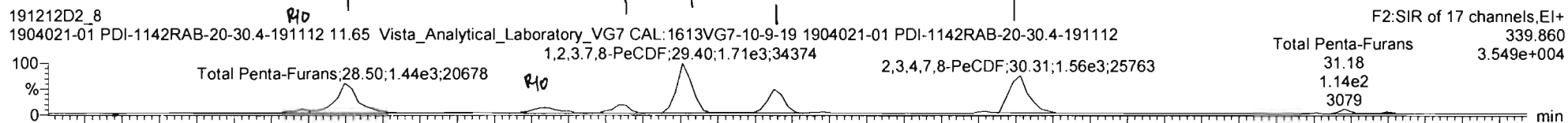
DPE6

191212D2_8
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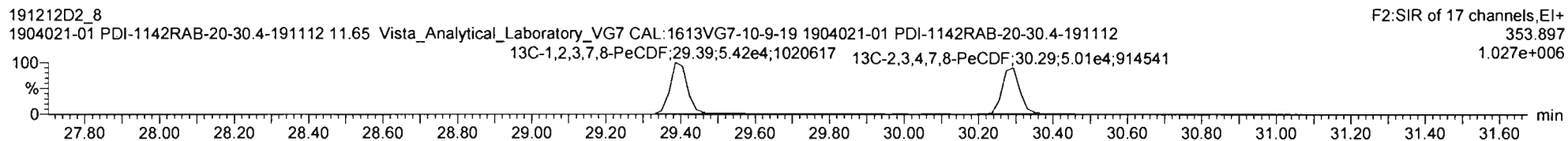
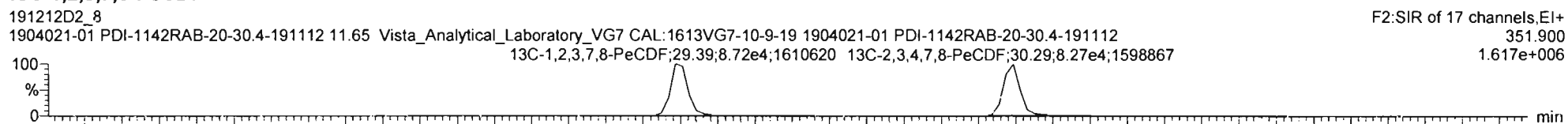


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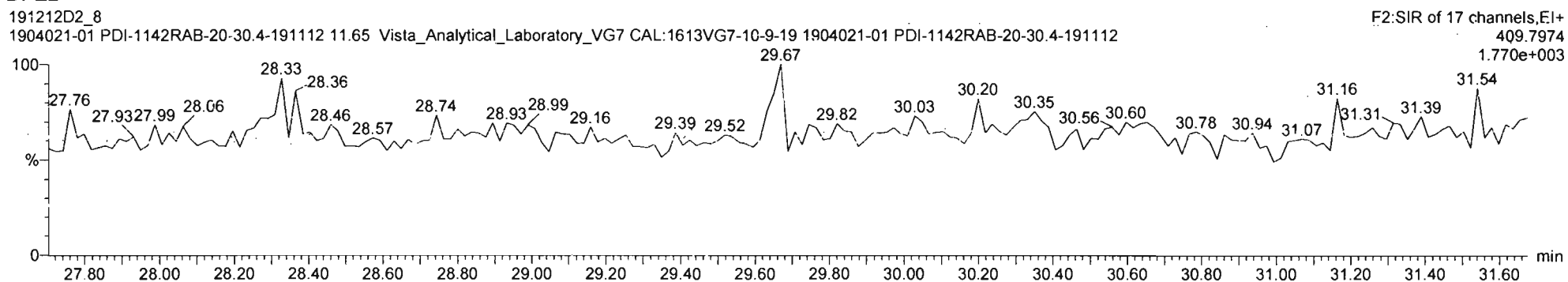
Total Penta-Furans



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



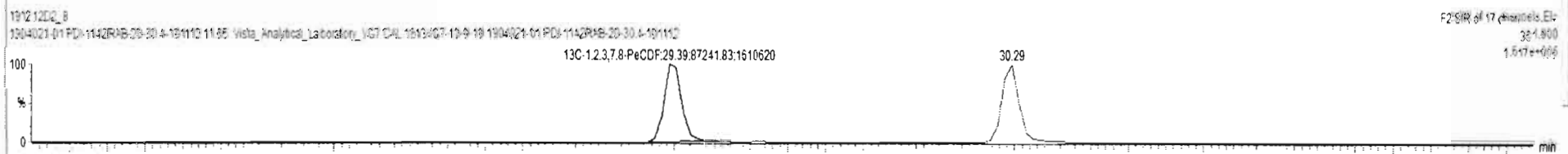
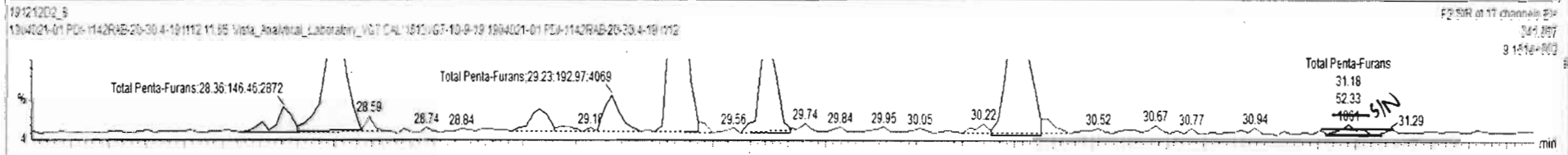
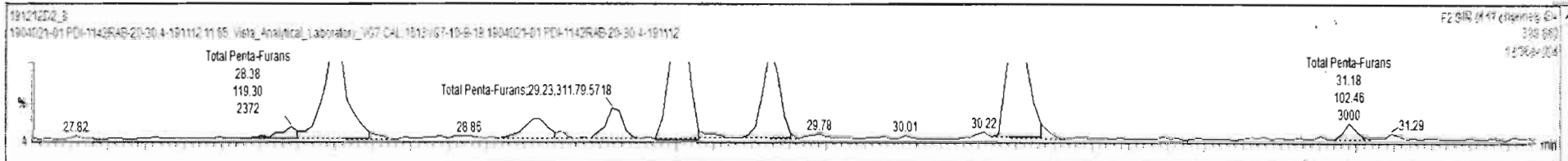
DPE2



191212D2_8 - 1904021-01 PDI-1142RAB-20-30 4-191112 - 1904021-01 PDI-1142RAB-20-30 4-191112 11.65 Vista_Analytical_Laboratory_VG7 CAL 1613VG7-10-9-19

#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wtVol	Pred RT	RT	RRT	Pred.RRT	Check RRT	Conc	%Rec	DL	EMPC
44	1st Func. Penta-Furans		0.00e0				0.940	10.114	27.63			0.000	NO	3.447		0.101	3.447
45	Total Penta-Furans		0.00e0				0.940	10.114	30.00			0.000	NO	14.06		0.245	15.16
46	Total Hexa-Furans		0.00e0				1.078	10.114	33.00			0.000	NO	13.21		0.312	14.43
47	Total Hepta-Furans		0.00e0				1.125	10.114	37.75			0.000	NO	23.65		0.333	23.68
48	PFK1																
49	PFK2																
50	PFK3																
51	PFK4																
52	PFK5																
53	DPE1																
54	DPE2																
55	DPE3																
56	DPE4																
57	DPE5																

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	Total Penta-Furans	30.00	28.38	1.193e2	1.465e2	1.550	0.81	YES	0.30115	0.00000
2	Total Penta-Furans	30.00	28.50	1.396e3	8.849e2	1.550	1.58	NO	3.4592	3.4592
3	Total Penta-Furans	30.00	29.03	2.805e2	1.449e2	1.550	1.96	YES	0.56675	0.00000



Vista Analytical Laboratory

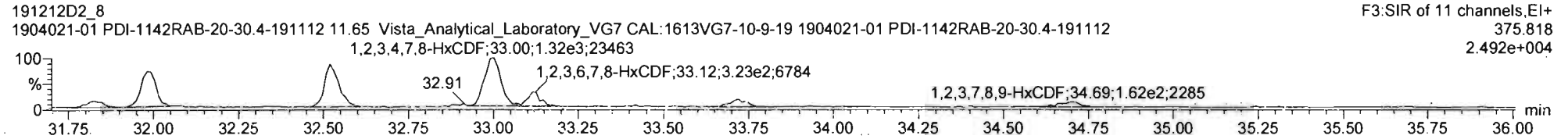
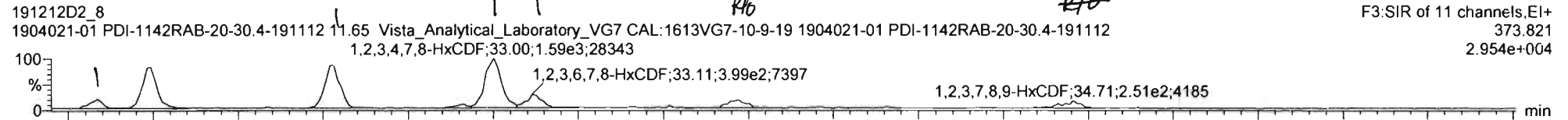
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Last Altered: Tuesday, December 17, 2019 09:53:12 Pacific Standard Time

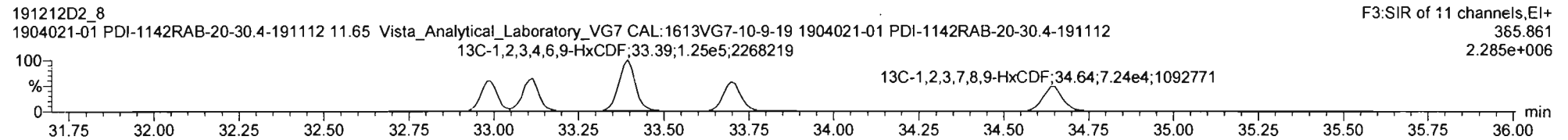
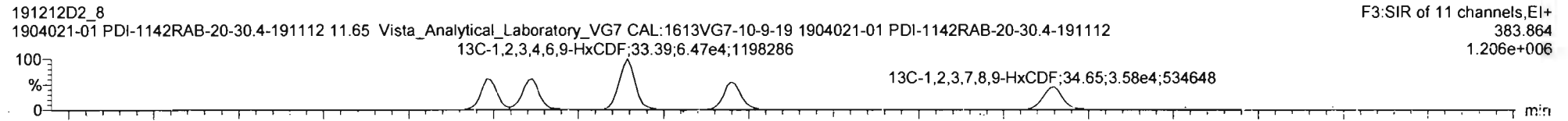
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Name: 191212D2_8, Date: 13-DEC-2019, Time: 06:31:22, ID: 1904021-01 PDI-1142RAB-20-30.4-191112, Description: 1904021-01 PDI-1142RAB-20-30.4-191112 11.65 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

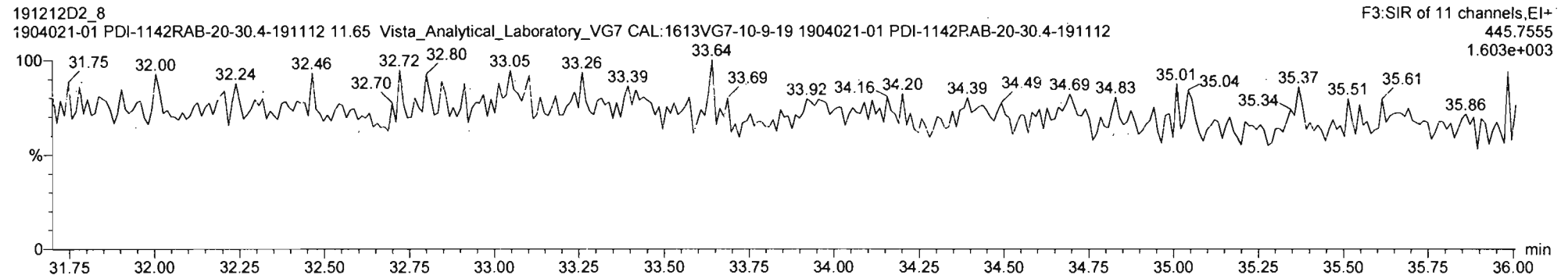
Total Hexa-Furans

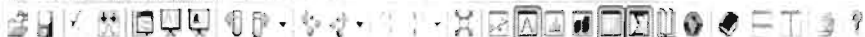


13C-1,2,3,4,7,8-HxCDF



DPE3

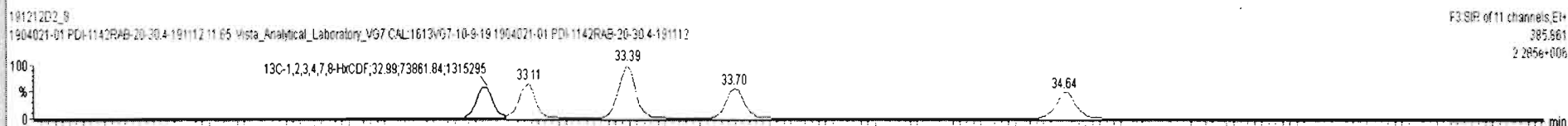
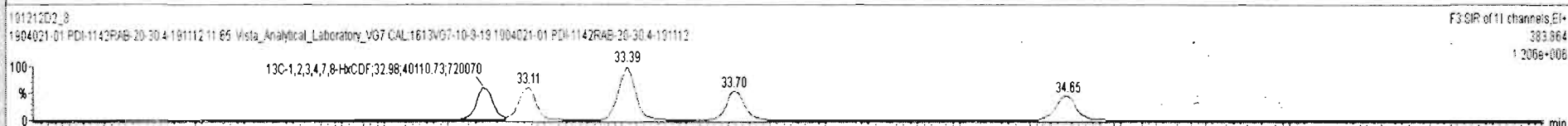
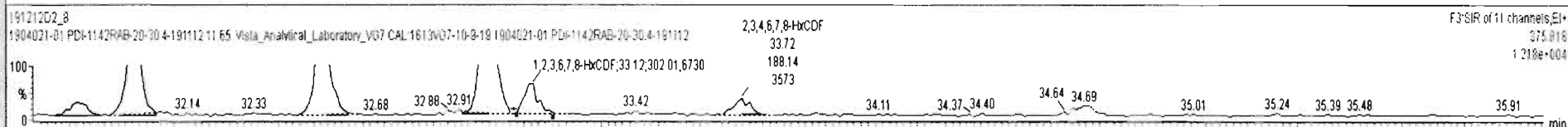
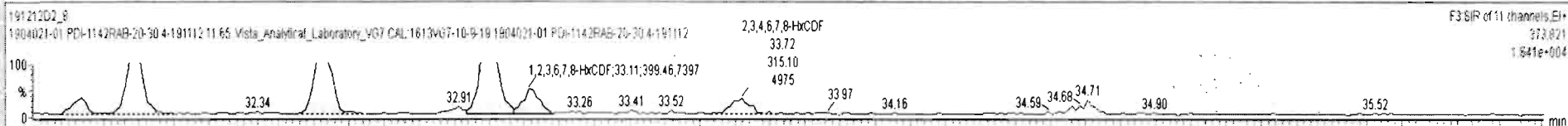




191212D2_8 - 1904021-01 PDI-1142RAB-20-30-4-191112 - 1904021-01 PDI-1142RAB-20-30-4-191112 11:65 Vista_Analytical_Laboratory_VG7 CAL 1613VG7-10-9-19

Name	Conc.	DL	%Rec	EMPC	Abs Resp	RRF	RT	#	IS#	RA	Y/N	RRT	Acq Date	Acq Time	1 st Chr Noise	ID	Sample Text	Factor1	SM	Cal File
1 2,3,7,8-TCDD		0.262						1	18				13-DEC-19	06:31:22	364.216	1904021-01...	1904021-01 PDI...	0.0	10.1	
2 1,2,3,7,8-PeCDD		0.313						2	19				13-DEC-19	06:31:22	464.165	1904021-01...	1904021-01 PDI...	0.0	10.1	
3 1,2,3,4,7,8-HxCDD		0.412						3	20				13-DEC-19	06:31:22	470.829	1904021-01...	1904021-01 PDI...	0.0	10.1	
4 1,2,3,6,7,8-HxCDD	1.41987	0.452		1.41987	6.639e2	33.99	4	21	1.286	NO	1.001	13-DEC-19	06:31:22	470.829	1904021-01...	1904021-01 PDI...	0.0	10.1		
5 1,2,3,7,8,9-HxCDD	0.683920	0.449		0.683920	3.258e2	34.29	5	22	1.271	NO	1.001	13-DEC-19	06:31:22	470.829	1904021-01...	1904021-01 PDI...	0.0	10.1		
6 1,2,3,4,6,7,8-HxCDD	95.9808	0.901		95.9808	4.065e4	37.75	6	23	1.054	NO	1.000	13-DEC-19	06:31:22	1042.999	1904021-01...	1904021-01 PDI...	0.0	10.1		
7 OCDD	618.259	0.683		618.259	2.032e5	41.00	7	24	0.882	NO	1.000	13-DEC-19	06:31:22	597.130	1904021-01...	1904021-01 PDI...	0.0	10.1		
8 2,3,7,8-TCDF	2.85214	0.274		2.85214	2.185e3	25.29	8	25	0.661	NO	1.001	13-DEC-19	06:31:22	537.971	1904021-01...	1904021-01 PDI...	0.0	10.1		
9 1,2,3,7,8-PeCDF	4.03081	0.238		4.03081	2.770e3	29.40	9	26	1.513	NO	1.001	13-DEC-19	06:31:22	595.195	1904021-01...	1904021-01 PDI...	0.0	10.1		
10 2,3,4,7,8-HxCDF	3.64872	0.229		3.64872	2.488e3	30.31	10	27	1.491	NO	1.001	13-DEC-19	06:31:22	585.195	1904021-01...	1904021-01 PDI...	0.0	10.1		
11 1,2,3,4,7,8-HxCDF	4.26390	0.267		4.26390	2.906e3	33.00	11	28	1.210	NO	1.001	13-DEC-19	06:31:22	603.097	1904021-01...	1904021-01 PDI...	0.0	10.1		
12 1,2,3,6,7,8-HxCDF	1.05561	0.285		1.05561	7.015e2	33.11	12	29	1.323	NO	1.000	13-DEC-19	06:31:22	603.097	1904021-01...	1904021-01 PDI...	0.0	10.1		

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	rvy	Resp	Conc.	EMPC
1 Total Hexa-Furans	31.64	5.069e3	2.873e3	2.243e2	1.669e2	1.34	NO	3.913e2	0.623	0.623
2 Total Hexa-Furans	31.99	2.360e4	1.750e4	1.157e3	9.336e2	1.24	NO	2.090e3	3.33	3.33
3 Total Hexa-Furans	32.53	2.458e4	2.100e4	1.271e3	1.026e3	1.23	NO	2.307e3	3.67	3.67
4 1,2,3,4,7,8-HxCDF	33.00	2.824e4	2.346e4	1.591e3	1.315e3	1.21	NO	2.906e3	4.28	4.28
5 1,2,3,6,7,8-HxCDF	33.11	7.397e3	6.730e3	3.995e2	3.020e2	1.32	NO	7.015e2	1.06	1.06
6 2,3,4,6,7,8-HxCDF	33.72	4.975e3	3.573e3	3.151e2	1.881e2	1.67	YES	5.032e2	0.000	0.646

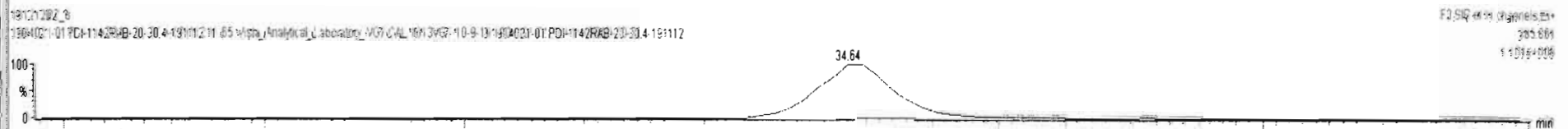
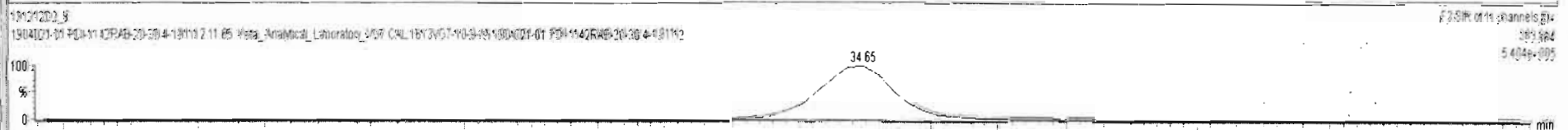
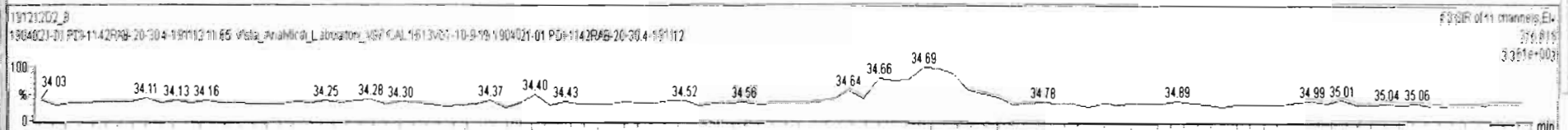
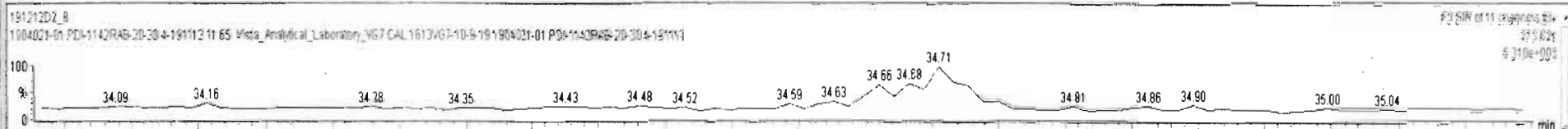




191212D2_8 - 1904021-01 PDI-1142RAB-20-30-4-191112 - 1904021-01 PDI-1142RAB-20-30-4-191112 11:65 Vista_Analytical_Laboratory_VG7 CAL 1613VG7-10-9-19

#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	w/Int	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD		1.09e5	18			0.905	10.114	26.08			1.001	NO			0.262	
2	1,2,3,7,8-PeCDD		9.07e4	19			0.903	10.114	30.60			1.001	NO			0.313	
3	1,2,3,4,7,8-HxCDD		9.07e4	20			1.101	10.114	33.87			1.000	NO			0.412	
4	1,2,3,6,7,8-HxCDD	6.64e2	9.85e4	21	1.29	NO	0.939	10.114	33.97	33.99	1.001	1.000	NO	1.420		0.452	1.420
5	1,2,3,7,8,9-HxCDD	3.26e2	9.80e4	22	1.27	NO	0.961	10.114	34.30	34.29	1.001	1.001	NO	0.6839		0.449	0.6839
6	1,2,3,4,6,7,8-HpCDD	4.06e4	8.55e4	23	1.05	NO	0.979	10.114	37.75	37.75	1.000	1.000	NO	95.96		0.901	95.96
7	OCDD	2.03e5	1.36e5	24	0.88	NO	0.959	10.114	40.99	41.00	1.000	1.000	NO	618.3		0.683	618.3
8	2,3,7,8-TCDF	2.18e3	1.59e5	25	0.66	NO	0.950	10.114	25.28	25.29	1.001	1.001	NO	2.852		0.274	2.852
9	1,2,3,7,8-PeCDF	2.77e3	1.41e5	26	1.51	NO	0.960	10.114	29.41	29.40	1.001	1.001	NO	4.031		0.238	4.031
10	1,2,3,4,7,8-PeCDF	2.49e3	1.33e5	27	1.49	NO	1.015	10.114	30.32	30.31	1.001	1.001	NO	3.649		0.229	3.649
11	1,2,3,4,7,8-HxCDF	2.91e3	1.14e5	28	1.21	NO	1.177	10.114	32.98	33.00	1.001	1.000	NO	4.284		0.267	4.284
12	1,2,3,6,7,8-HxCDF	7.01e2	1.23e5	29	1.32	NO	1.069	10.114	33.12	33.11	1.000	1.000	NO	1.056		0.285	1.056

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	46 Total Hexa-Furans	33.00	31.84	2.24e2	1.669e2	1.240	1.34	NO	0.62304	0.62304
2	46 Total Hexa-Furans	33.00	31.99	1.157e3	9.336e2	1.240	1.24	NO	3.3287	3.3287
3	46 Total Hexa-Furans	33.00	32.53	1.271e3	1.038e3	1.240	1.23	NO	3.6729	3.6729
4	11 1,2,3,4,7,8-HxCDF	32.98	33.00	1.591e3	1.315e3	1.240	1.21	NO	4.2839	4.2839
5	12 1,2,3,6,7,8-HxCDF	33.12	33.11	3.995e2	3.020e2	1.240	1.32	NO	1.0556	1.0556
6	13 2,3,4,6,7,8-HxCDF	33.73	33.72	3.151e2	1.881e2	1.240	1.67	YES	0.64570	0.00000



Vista Analytical Laboratory

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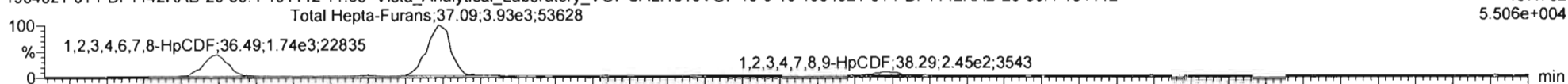
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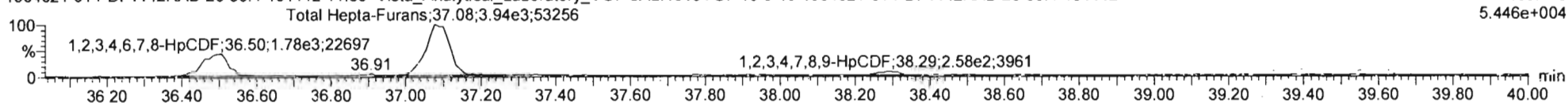
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Total Hepta-Furans

191212D2_8 F4:SIR of 11 channels,EI+ 407.782 5.506e+004
1904021-01 PDI-1142RAB-20-30.4-191112 11.65 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19 1904021-01 PDI-1142RAB-20-30.4-191112

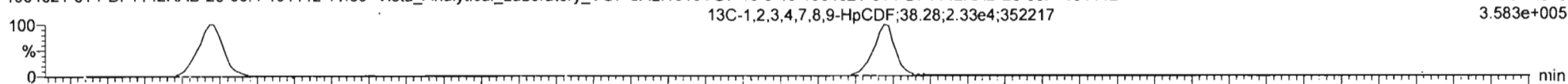


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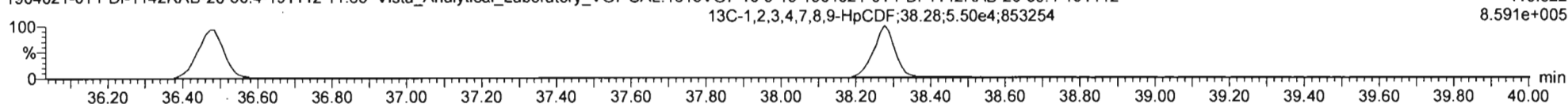


13C-1,2,3,4,6,7,8-HpCDF

191212D2_8 F4:SIR of 11 channels,EI+ 417.825 3.583e+005
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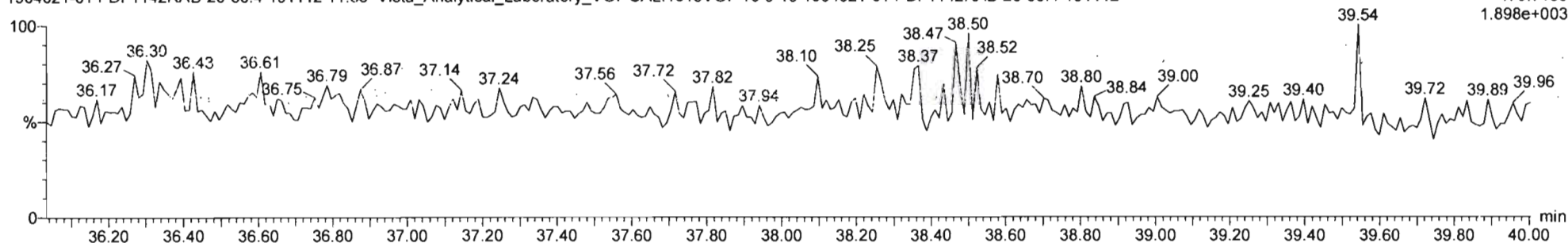


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DPE4

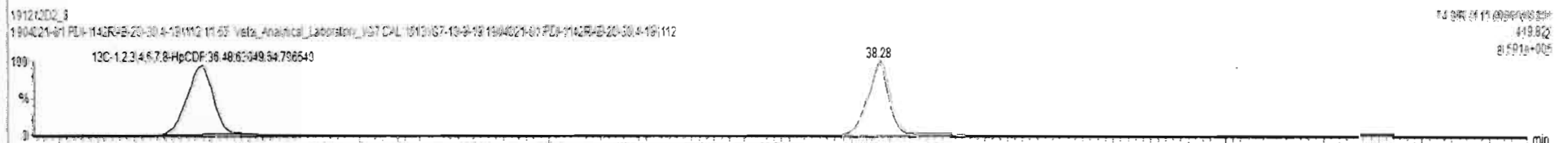
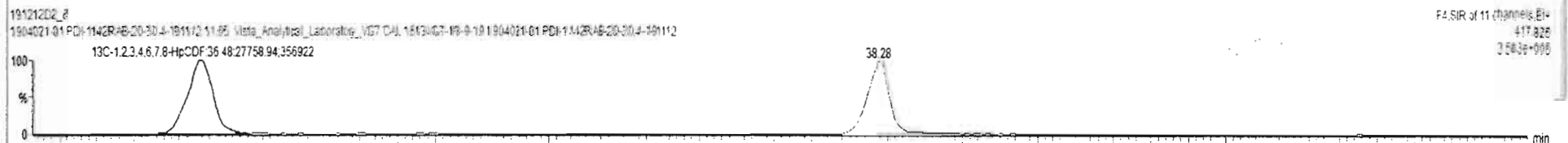
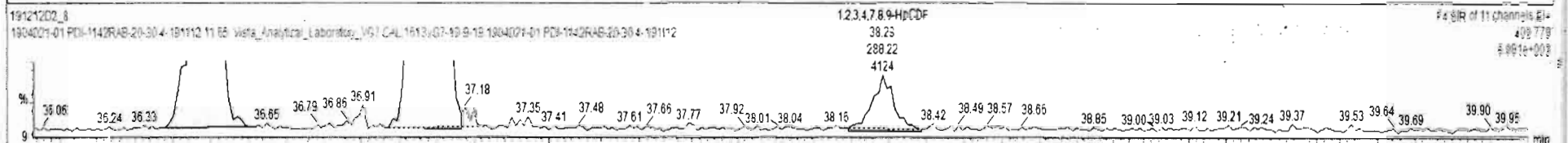
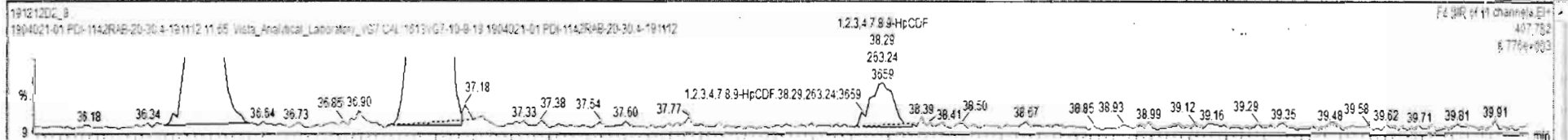
191212D2_8 F4:SIR of 11 channels,EI+ 479.7165 1.898e+003
1904021-01 PDI-1142RAB-20-30.4-191112 11.65 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19 1904021-01 PDI-1142RAB-20-30.4-191112



191212D2_8 - 1904021-01 PDI-1142RAB-20-30 4-191112 - 1904021-01 PDI-1142RAB-20-30 4-191112 11 65 Vista_Analytical_Laboratory_VG7 CAL 1613VG7-10-9-19

#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wf/wal	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	EMPC
44	1st Func. Penta-Furans	0.00e0					0.940	10.114	27.63			0.000	NO	3.447	0.161	3.447	
45	Total Penta-Furans	0.00e0					0.940	10.114	30.00			0.000	NO	14.08	0.245	14.05	
46	Total Hexa-Furans	0.00e0					1.078	10.114	33.00			0.000	NO	12.96	0.312	14.23	
47	Total Hepta-Furans	0.00e0					1.125	10.114	37.75			0.000	NO	23.96	0.333	23.96	
48	PFK1																
49	PFK2																
50	PFK3																
51	PFK4																
52	PFK5																
53	DPE1																
54	DPE2																
55	DPE3																
56	DPE4																
57	DPE5																
58	DPE6																

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc
1	1,2,3,4,6,7,8-HpCDF	36.52	36.49	1.726e3	1.776e3	1.040	0.96	NO	6.7382	6.7382
2	47 Total Hepta-Furans	37.75	37.09	3.936e3	3.520e3	1.040	1.08	NO	16.132	16.132



Vista Analytical Laboratory

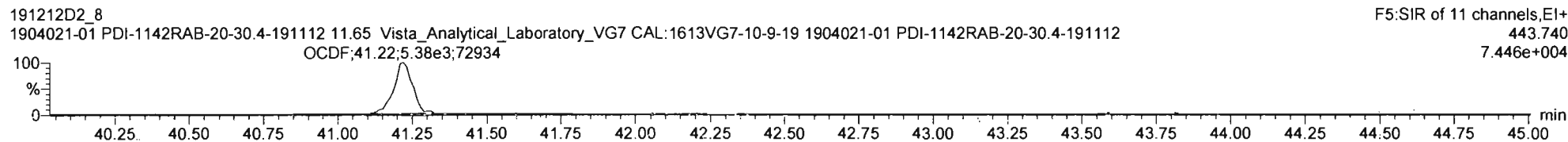
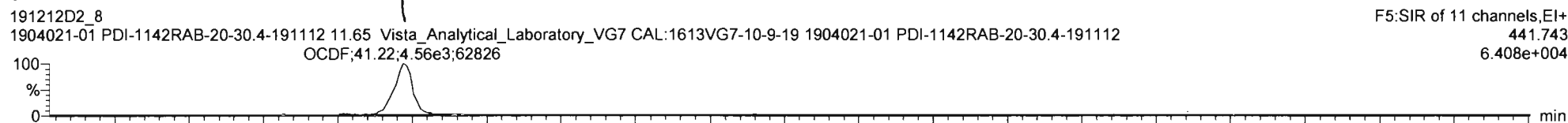
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Last Altered: Tuesday, December 17, 2019 09:53:12 Pacific Standard Time

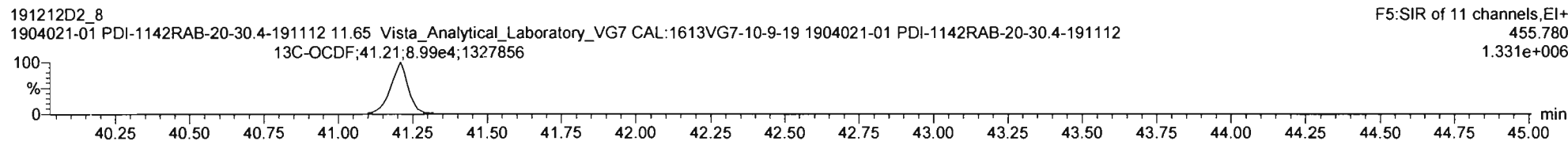
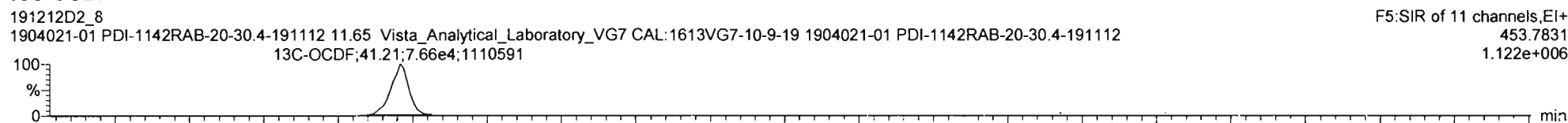
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Description: 1904021-01 PDI-1142RAB-20-30.4-191112 11.65 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

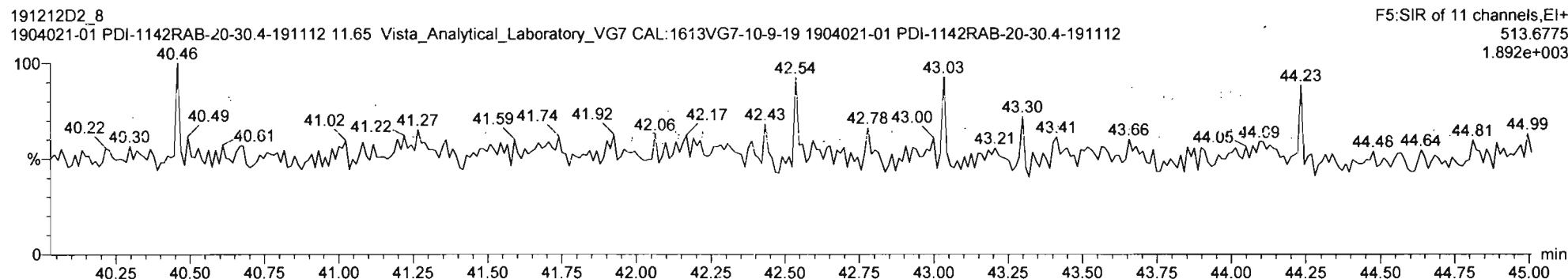
OCDF



13C-OCDF



DPE5



Vista Analytical Laboratory

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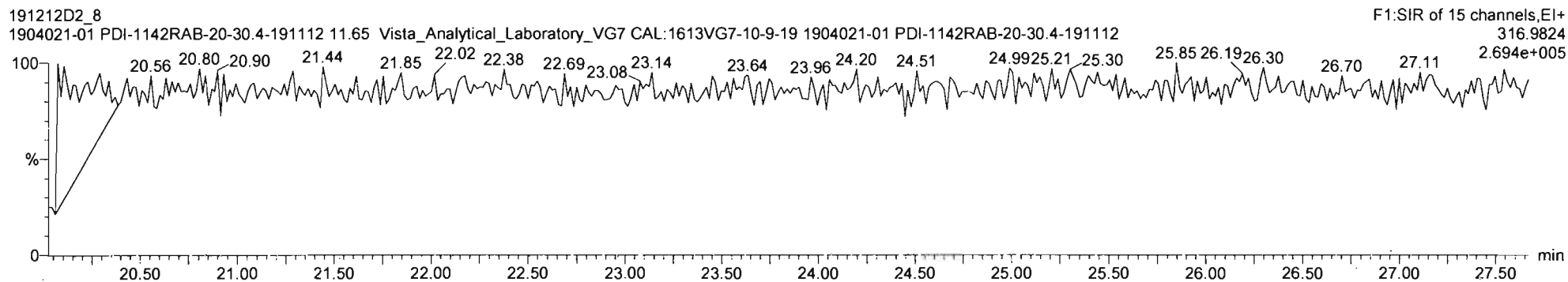
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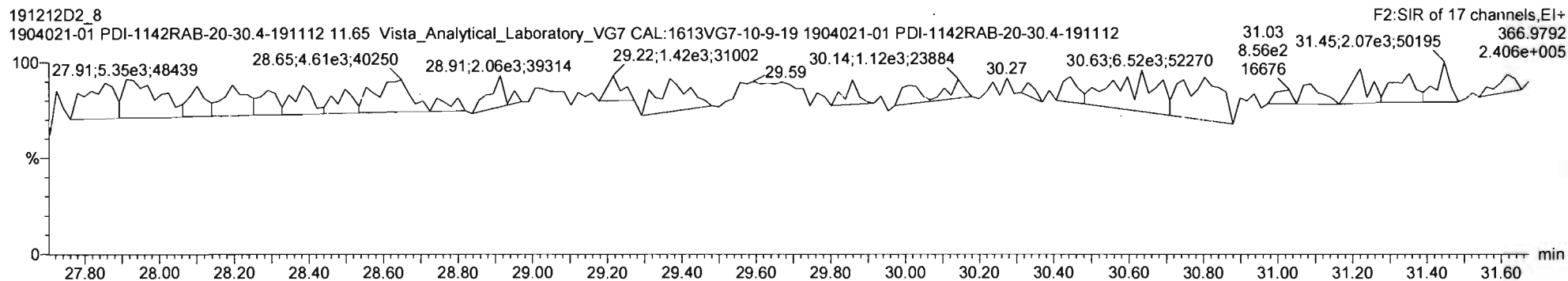
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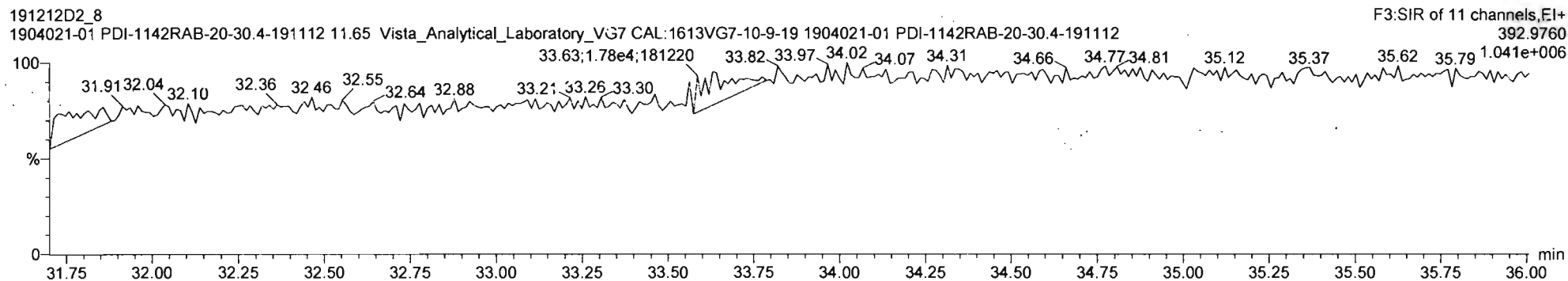
PFK1



PFK2



PFK3



Vista Analytical Laboratory

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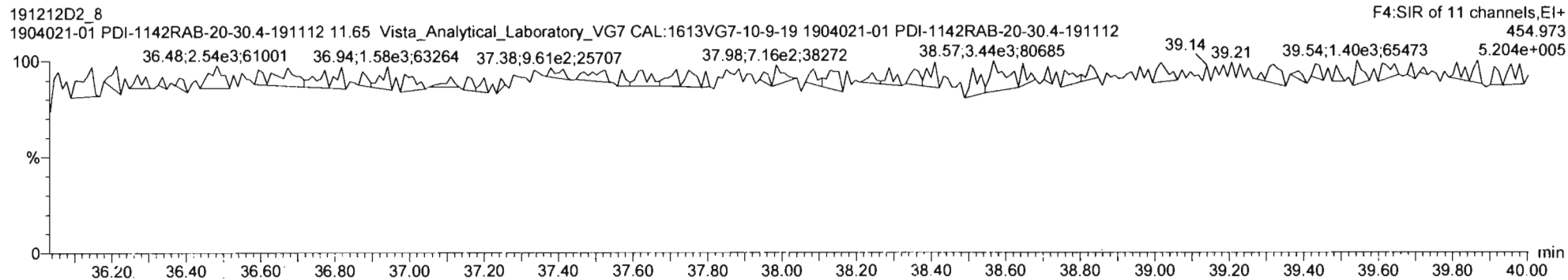
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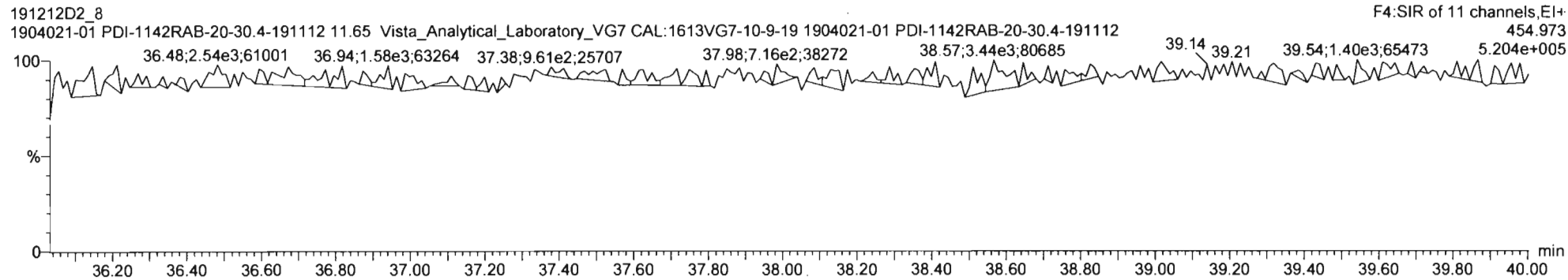
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PFK4



PFK5



Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191212D2\191212D2_9.qld

Last Altered: Tuesday, December 17, 2019 11:36:06 Pacific Standard Time

Printed: Tuesday, December 17, 2019 11:37:56 Pacific Standard Time

EL 12/17/19 CT 12/29/19

Method: U:\VG7.PRO\MethDB\1613VG7-12-4-19.mdb 10 Dec 2019 16:21:14

Calibration: 17 Dec 2019 10:04:19

Name: 191212D2_9, Date: 13-DEC-2019, Time: 07:19:19, ID: 1904021-02 PDI-142RAB-00-10-191112,

Description: 1904021-02 PDI-142RAB-00-10-191112 10.82 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

#	Name	Area	IS Area	Wt./Vol.	RRF	RA	Y/N	Pred...	RRT	Pred.RT	RT	Conc.	%Rec	EMPC	DL
1	1 2,3,7,8-TCDD		1.75e5	10.0595	0.905			1.001		26.07					0.132
2	2 1,2,3,7,8-PeCDD		1.48e5	10.0595	0.903			1.001		30.60					0.180
3	3 1,2,3,4,7,8-HxCDD		1.37e5	10.0595	1.101			1.000		33.88					0.223
4	4 1,2,3,6,7,8-HxCDD	3.30e2	1.46e5	10.0595	0.939	1.431	YES	1.000	1.000	33.98	33.99	0.47899		0.441	0.226
5	5 1,2,3,7,8,9-HxCDD		1.51e5	10.0595	0.961			1.001		34.30					0.227
6	6 1,2,3,4,6,7,8-HpCDD	7.17e3	1.43e5	10.0595	0.979	1.049	NO	1.000	1.000	37.75	37.75	10.203		10.2	0.381
7	7 OCDD	6.27e4	2.60e5	10.0595	0.959	0.903	NO	1.000	1.000	40.99	41.00	99.997		100	0.291
8	8 2,3,7,8-TCDF		2.53e5	10.0595	0.950			1.001		25.28					0.145
9	9 1,2,3,7,8-PeCDF		2.30e5	10.0595	0.960			1.001		29.41					0.104
10	10 2,3,4,7,8-PeCDF		2.20e5	10.0595	1.015			1.001		30.32					0.0907
11	11 1,2,3,4,7,8-HxCDF	2.19e2	1.76e5	10.0595	1.177	1.279	NO	1.000	1.001	32.98	33.01	0.20960		0.210	0.111
12	12 1,2,3,6,7,8-HxCDF		1.97e5	10.0595	1.069			1.000		33.12					0.114
13	13 2,3,4,6,7,8-HxCDF	1.19e2	1.82e5	10.0595	1.114	0.934	YES	1.001	1.000	33.73	33.71	0.11063		0.102	0.125
14	14 1,2,3,7,8,9-HxCDF		1.71e5	10.0595	1.062			1.000		34.64					0.158
15	15 1,2,3,4,6,7,8-HpCDF	1.20e3	1.75e5	10.0595	1.128	1.082	NO	1.001	1.001	36.51	36.51	1.2125		1.21	0.135
16	16 1,2,3,4,7,8,9-HpCDF		1.32e5	10.0595	1.280			1.000		38.28					0.134
17	17 OCDF	2.76e3	3.26e5	10.0595	0.947	0.874	NO	1.000	1.000	41.21	41.22	3.5574		3.56	0.165
18	18 13C-2,3,7,8-TCDD	1.75e5	1.54e5	10.0595	1.095	0.776	NO	1.021	1.022	26.01	26.03	205.87	103.6		0.408
19	19 13C-1,2,3,7,8-PeCDD	1.48e5	1.54e5	10.0595	0.881	0.638	NO	1.187	1.200	30.23	30.58	217.49	109.4		0.462
20	20 13C-1,2,3,4,7,8-Hx...	1.37e5	1.92e5	10.0595	0.642	1.261	NO	1.014	1.014	33.86	33.87	220.89	111.1		0.870
21	21 13C-1,2,3,6,7,8-Hx...	1.46e5	1.92e5	10.0595	0.856	1.258	NO	1.017	1.017	33.98	33.98	176.53	88.8		0.653
22	22 13C-1,2,3,7,8,9-Hx...	1.51e5	1.92e5	10.0595	0.807	1.258	NO	1.026	1.026	34.27	34.27	193.29	97.2		0.693
23	23 13C-1,2,3,4,6,7,8-H...	1.43e5	1.92e5	10.0595	0.654	1.029	NO	1.126	1.130	37.61	37.74	225.47	113.4		1.18
24	24 13C-OCDD	2.60e5	1.92e5	10.0595	0.580	0.906	NO	1.226	1.227	40.95	40.99	464.37	116.8		0.594
25	25 13C-2,3,7,8-TCDF	2.53e5	2.47e5	10.0595	1.035	0.782	NO	0.992	0.991	25.27	25.26	196.63	98.9		0.346
26	26 13C-1,2,3,7,8-PeCDF	2.30e5	2.47e5	10.0595	0.854	1.645	NO	1.154	1.154	29.39	29.39	216.24	108.8		0.711
27	27 13C-2,3,4,7,8-PeCDF	2.20e5	2.47e5	10.0595	0.847	1.639	NO	1.189	1.189	30.29	30.29	209.24	105.2		0.717
28	28 13C-1,2,3,4,7,8-Hx...	1.76e5	1.92e5	10.0595	0.832	0.516	NO	0.987	0.988	32.97	32.98	219.29	110.3		0.641
29	29 13C-1,2,3,6,7,8-Hx...	1.97e5	1.92e5	10.0595	1.034	0.518	NO	0.991	0.992	33.09	33.11	196.83	99.0		0.515
30	30 13C-2,3,4,6,7,8-Hx...	1.82e5	1.92e5	10.0595	0.953	0.511	NO	1.009	1.009	33.70	33.70	197.01	99.1		0.559
31	31 13C-1,2,3,7,8,9-Hx...	1.71e5	1.92e5	10.0595	0.828	0.515	NO	1.039	1.037	34.69	34.64	214.05	107.7		0.644

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191212D2\191212D2_9.qld

Last Altered: Tuesday, December 17, 2019 11:36:06 Pacific Standard Time

Printed: Tuesday, December 17, 2019 11:37:56 Pacific Standard Time

Name: 191212D2_9, Date: 13-DEC-2019, Time: 07:19:19, ID: 1904021-02 PDI-142RAB-00-10-191112,
 Description: 1904021-02 PDI-142RAB-00-10-191112 10.82 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

#	Name	Area	IS Area	Wt./Vol.	RRF	RA	Y/N	Pred...	RRT	Pred.RT	RT	Conc.	%Rec	EMPC	DL
32	32 13C-1,2,3,4,6,7,8-H...	1.75e5	1.92e5	10.0595	0.757	0.437	NO	1.093	1.092	36.49	36.47	238.94	120.2		0.857
33	33 13C-1,2,3,4,7,8,9-H...	1.32e5	1.92e5	10.0595	0.581	0.424	NO	1.143	1.146	38.17	38.28	235.13	118.3		1.12
34	34 13C-OCDF	3.26e5	1.92e5	10.0595	0.689	0.890	NO	1.233	1.234	41.18	41.21	489.21	123.0		0.566
35	35 37Cl-2,3,7,8-TCDD	7.25e4	1.54e5	10.0595	1.198			1.022	1.023	26.03	26.05	78.220	98.4		0.127
36	36 13C-1,2,3,4-TCDD	1.54e5	1.54e5	10.0595	1.000	0.802	NO	1.000	1.000	25.50	25.47	198.82	100.0		0.447
37	37 13C-1,2,3,4-TCDF	2.47e5	2.47e5	10.0595	1.000	0.802	NO	1.000	1.000	24.06	24.03	198.82	100.0		0.358
38	38 13C-1,2,3,4,6,9-Hx...	1.92e5	1.92e5	10.0595	1.000	0.507	NO	1.000	1.000	33.42	33.39	198.82	100.0		0.533
39	39 Total Tetra-Dioxins		1.75e5	10.0595	0.901			0.000		25.50					0.0745
40	40 Total Penta-Dioxins		1.48e5	10.0595	0.872			0.000		30.00					0.0815
41	41 Total Hexa-Dioxins		0.00e0	10.0595	0.976			0.000		33.80		1.1450		2.74	0.230
42	42 Total Hepta-Dioxins		1.43e5	10.0595	0.989			0.000		37.75		21.863		21.9	0.377
43	43 Total Tetra-Furans		2.53e5	10.0595	0.943			0.000		24.00					0.0699
44	44 1st Func. Penta-Fur...		0.00e0	10.0595	0.940			0.000		27.63		0.49291		0.493	0.0627
45	45 Total Penta-Furans		0.00e0	10.0595	0.940			0.000		30.00		0.26038		0.260	0.0459
46	46 Total Hexa-Furans		0.00e0	10.0595	1.078			0.000		33.00		1.6120		1.95	0.129
47	47 Total Hepta-Furans		0.00e0	10.0595	1.135			0.000		37.75		4.2809		4.28	0.141

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191212D2\191212D2_9.qld

Last Altered: Tuesday, December 17, 2019 11:36:06 Pacific Standard Time

Printed: Tuesday, December 17, 2019 11:37:56 Pacific Standard Time

Method: U:\VG7.PRO\MethDB\1613VG7-12-4-19.mdb 10 Dec 2019 16:21:14

Calibration: 17 Dec 2019 10:04:19

Name: 191212D2_9, Date: 13-DEC-2019, Time: 07:19:19, ID: 1904021-02 PDI-142RAB-00-10-191112,

Description: 1904021-02 PDI-142RAB-00-10-191112 10.82 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

Tetra-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1									

Penta-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1									

Hexa-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	41 Total Hexa-Dioxins	NO	32.36	448.247	80614.838	11.241	bb	1.1450	1.15
2	4 1,2,3,6,7,8-HxCDD	YES	33.99	194.391	81349.328	0.000	bb	0.0000	0.44
3	41 Total Hexa-Dioxins	NO	33.20	222.736	80614.838	0.000	MM	0.0000	0.59
4	41 Total Hexa-Dioxins	YES	33.17	270.784	80614.838	0.000	MM	0.0000	0.57

Hepta-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	NO	37.75	3668.960	72295.305	100.521	bb	10.2028	10.20
2	42 Total Hepta-Dioxins	NO	36.89	4138.031	72295.305	115.967	bb	11.6598	11.66

Tetra-Furans

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1									

Penta-Furans function 1

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	44 1st Func. Penta-Furans	NO	27.05	325.874	139771.476	4.659	MM	0.4929	0.49

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191212D2\191212D2_9.qld

Last Altered: Tuesday, December 17, 2019 11:36:06 Pacific Standard Time

Printed: Tuesday, December 17, 2019 11:37:56 Pacific Standard Time

Name: 191212D2_9, Date: 13-DEC-2019, Time: 07:19:19, ID: 1904021-02 PDI-142RAB-00-10-191112,
 Description: 1904021-02 PDI-142RAB-00-10-191112 10.82 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

Penta-Furans

	# Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	45 Total Penta-Furans	NO	28.48	174.296	139771.476	2.461	MM	0.2604	0.26

Hexa-Furans

	# Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	11 1,2,3,4,7,8-HxCDF	NO	33.01	122.794	60064.984	2.481	MM	0.2096	0.21
2	46 Total Hexa-Furans	NO	32.52	448.079	61725.628	8.553	MM	0.7890	0.79
3	46 Total Hexa-Furans	NO	31.98	315.497	61725.628	6.649	MM	0.6134	0.61
4	46 Total Hexa-Furans	YES	31.81	127.814	61725.628	0.000	MM	0.0000	0.23
5	13 2,3,4,6,7,8-HxCDF	YES	33.71	57.307	61413.879	0.000	MM	0.0000	0.10

Hepta-Furans

	# Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	47 Total Hepta-Furans	NO	37.08	1429.097	46309.826	35.024	bb	3.0684	3.07
2	15 1,2,3,4,6,7,8-HpCDF	NO	36.51	625.406	53249.094	13.754	bb	1.2125	1.21

Vista Analytical Laboratory

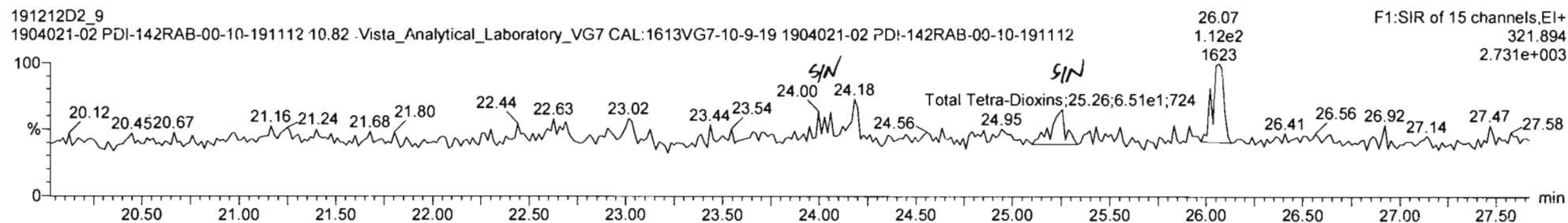
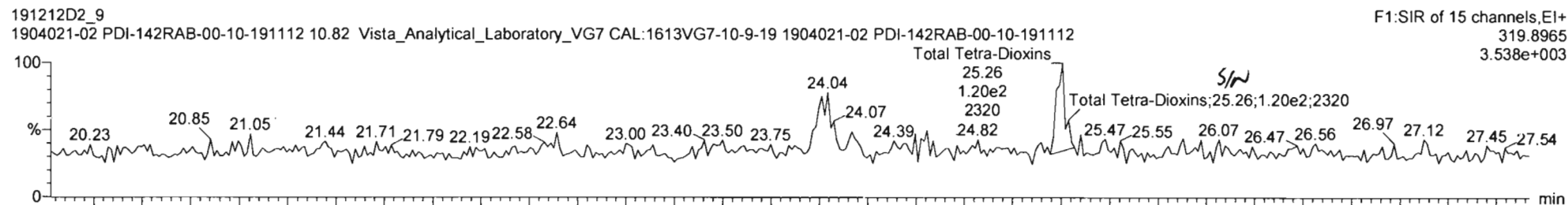
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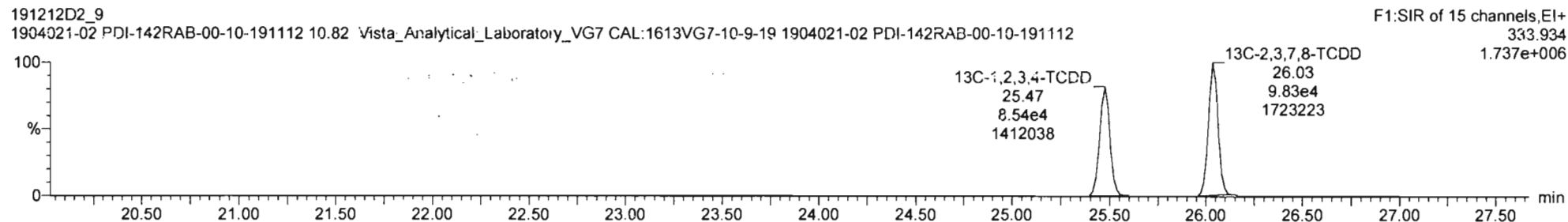
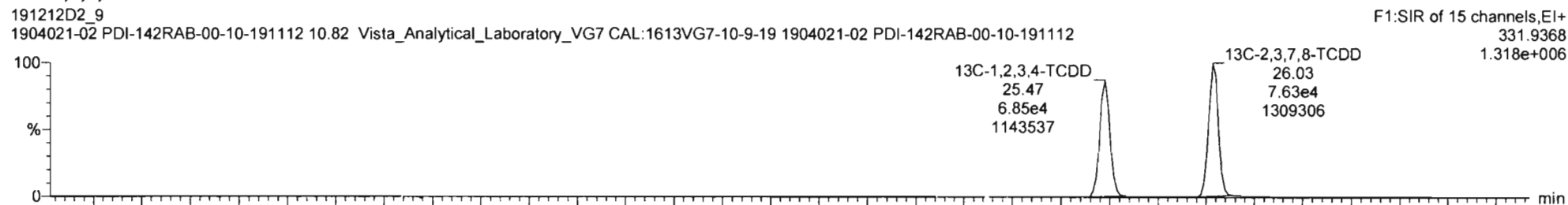
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Name: 191212D2_9, Date: 13-DEC-2019, Time: 07:19:19, ID: 1904021-02 PDI-142RAB-00-10-191112, Description: 1904021-02 PDI-142RAB-00-10-191112 10.82 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

Total Tetra-Dioxins



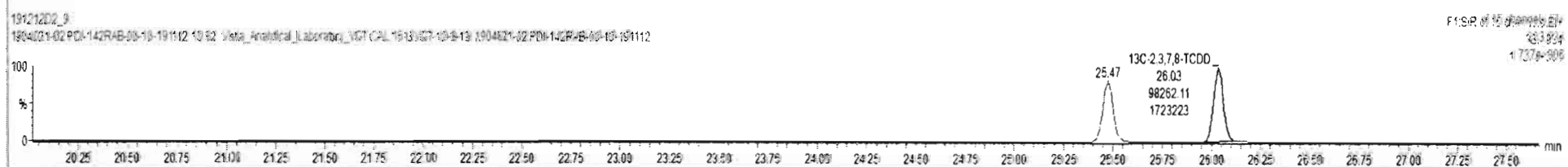
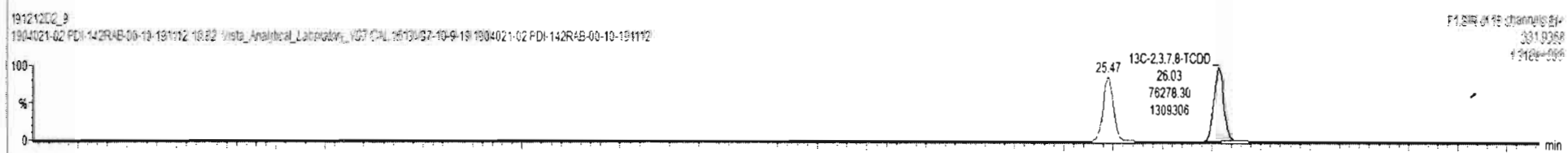
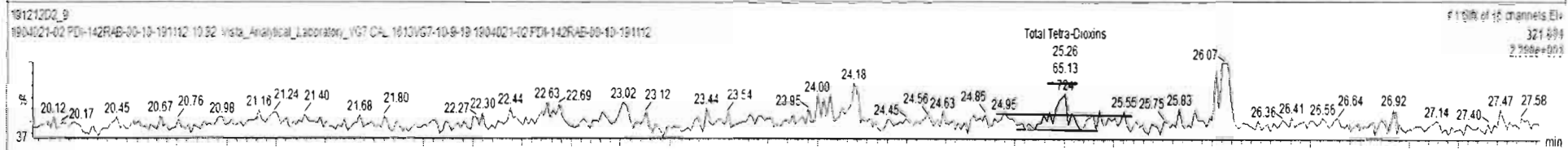
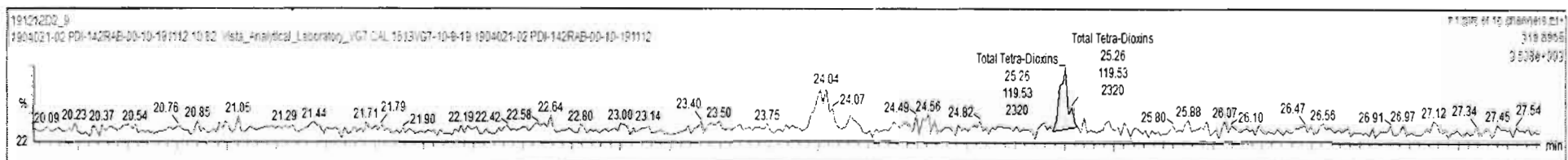
13C-2,3,7,8-TCDD



191212D2_9 - 1904021-02 PDI-142RAB-00-10-191112 - 1904021-02 PDI-142RAB-00-10-191112 10.82 Vista_Analytical_Laboratory_VG7 CAL 1613VG7-10-9-19

#	Name	Resp	IS Resp	IS#	RA	nly	RRF	wt/wol	Pred RT	RT	RRT	Pred.RRT	Check RRT	Conc.	%Rec	DL	EMPC
33	13C-1,2,3,4,7,8,9-HpCDF	1.32e5	1.52e5	36	0.42	NO	0.581	10.060	38.17	38.28	1.146	1.143	NO	235.1	118	1.12	
34	13C-OCDF	3.26e5	1.92e5	36	0.89	NO	0.689	10.060	41.18	41.21	1.234	1.233	NO	489.2	123	0.566	
35	37Cl-2,3,7,8-TCDD	7.25e4	1.54e5	36			1.198	10.060	26.03	26.05	1.023	1.022	NO	78.22	98.4	0.127	
36	13C-1,2,3,4-TCDF	1.54e5	1.54e5	36	0.80	NO	1.000	10.060	25.50	25.47	1.000	1.000	NO	198.8	100	0.447	
37	13C-1,2,3,4-TCDF	2.47e5	2.47e5	37	0.89	NO	1.000	10.060	24.06	24.03	1.009	1.009	NO	198.6	100	0.250	
38	13C-1,2,3,4,6,9-HxCDF	1.92e5	1.92e5	36	0.51	NO	1.000	10.060	33.42	33.39	1.000	1.000	NO	198.8	100	0.539	
39	Total Tetra-Dioxins		1.75e5				0.901	10.060	25.50			0.000	NO	0.0000	0.0745	0.1460	
40	Total Penta-Dioxins		1.46e5				0.872	10.060	30.00			0.000	NO	0.0000	0.0815	0.6660	
41	Total Hexa-Dioxins		0.00e0				0.976	10.060	33.80			0.000	NO	1.632	0.230	3.025	
42	Total Hepta-Dioxins		1.43e5				0.989	10.060	37.75			0.000	NO	21.66	0.377	21.86	
43	Total Tetra-Furans		2.53e5				0.943	10.060	24.00			0.000	NO	0.1501	0.148	0.1530	
44	1st Func. Penta-Furans		0.00e0				0.940	10.060	27.63			0.000	NO	0.4958	0.0627	0.4960	
45	Total Penta-Furans		0.00e0				0.940	10.060	33.00			0.000	NO	0.3852	0.102	0.7260	
46	Total Hexa-Furans		0.00e0				1.078	10.060	33.00			0.000	NO	1.937	0.128	2.048	
47	Total Hepta-Furans		0.00e0				1.135	10.060	37.75			0.000	NO	4.261	0.141	4.281	

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	Pred.RA	RA	nly	EMPC	Conc.
1	39 Total Tetra-Dioxins	25.50	25.26	1.195e2	6.513e1	6.770	1.84	YES	0.14600	0.00000

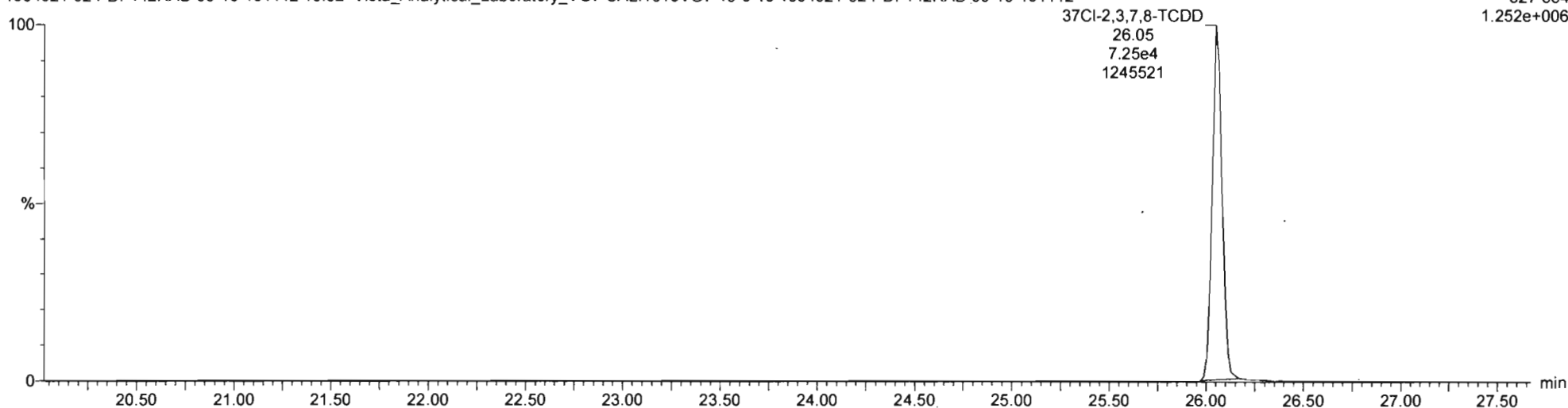


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Description: 1904021-02 PDI-142RAB-00-10-191112 10.82 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

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

191212D2_9
1904021-02 PDI-142RAB-00-10-191112 10.82 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19 1904021-02 PDI-142RAB-00-10-191112

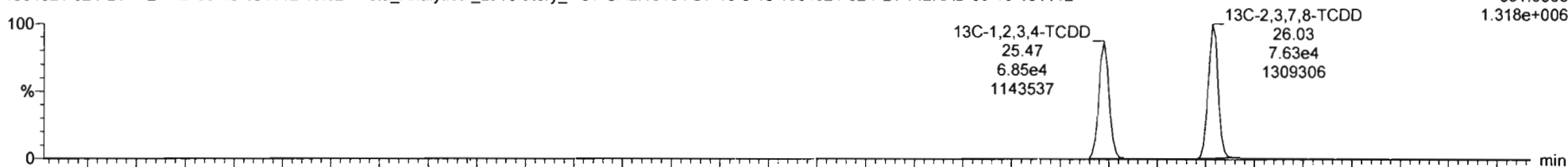
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327 884
1.252e+006



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

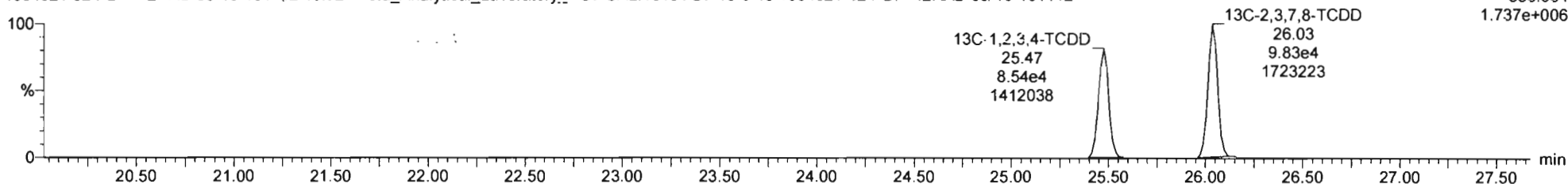
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F1:SIR of 15 channels,EI+
331.9368
1.318e+006



191212D2_9
1904021-02 PDI-142RAB-00-10-191112 10.82 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19 1904021-02 PDI-142RAB-00-10-191112

F1:SIR of 15 channels,EI+
333.934
1.737e+006



Vista Analytical Laboratory

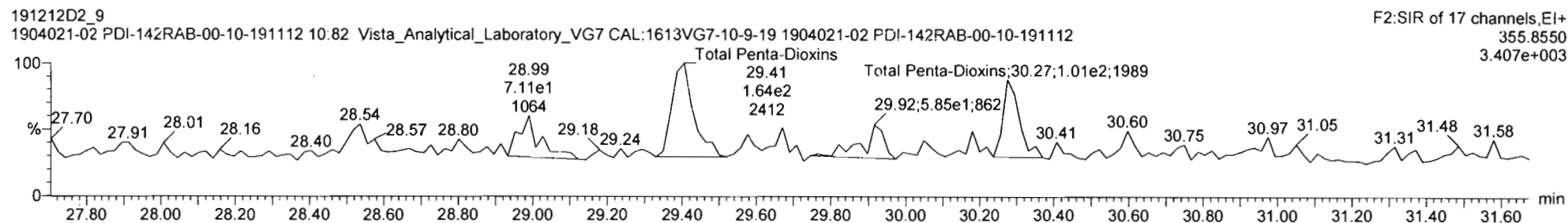
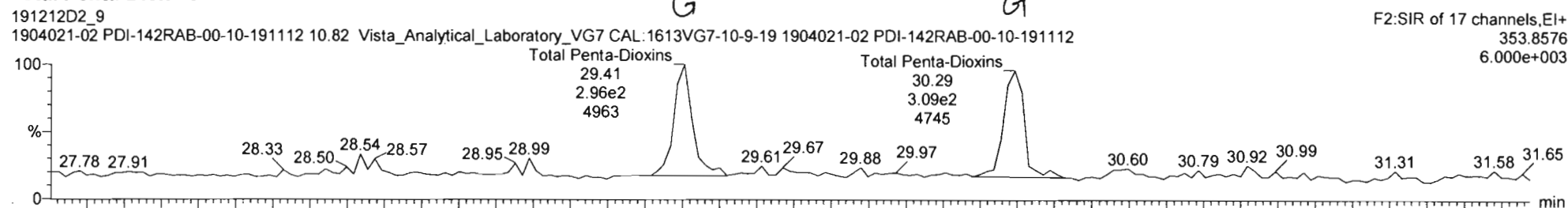
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Last Altered: Tuesday, December 17, 2019 09:53:12 Pacific Standard Time

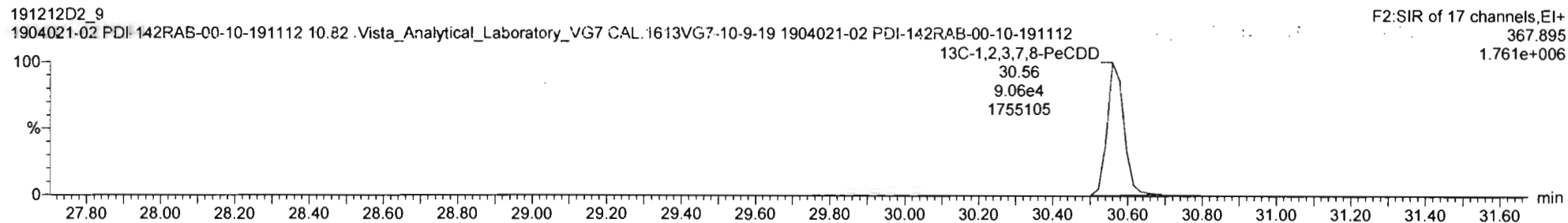
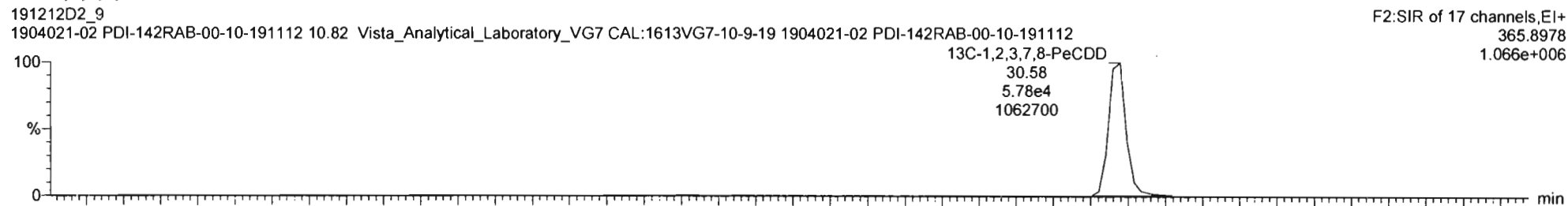
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Total Penta-Dioxins



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



Vista Analytical Laboratory

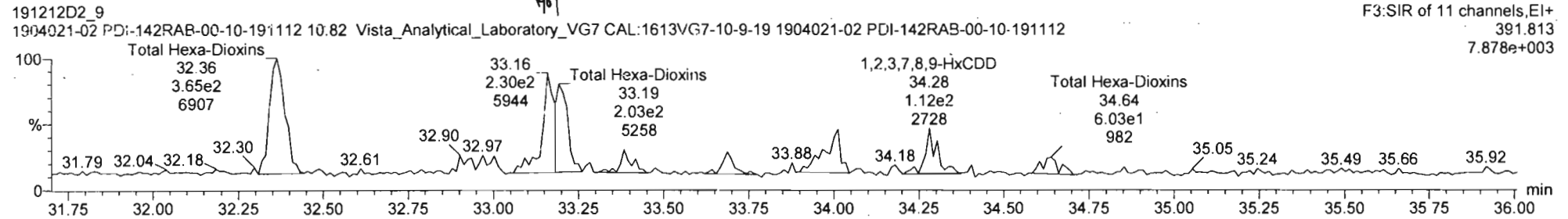
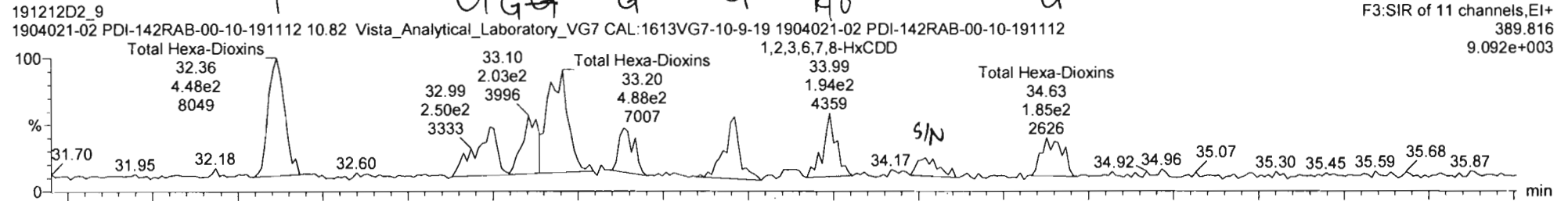
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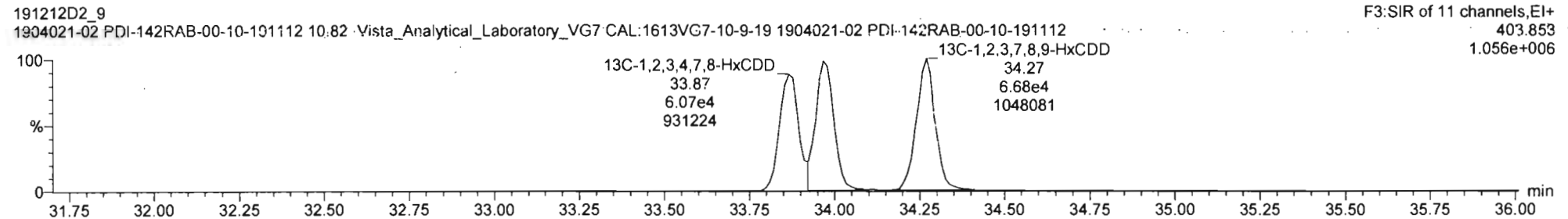
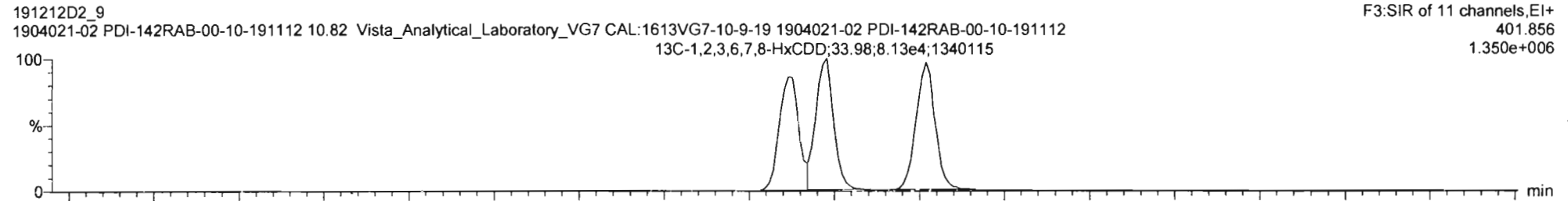
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Total Hexa-Dioxins

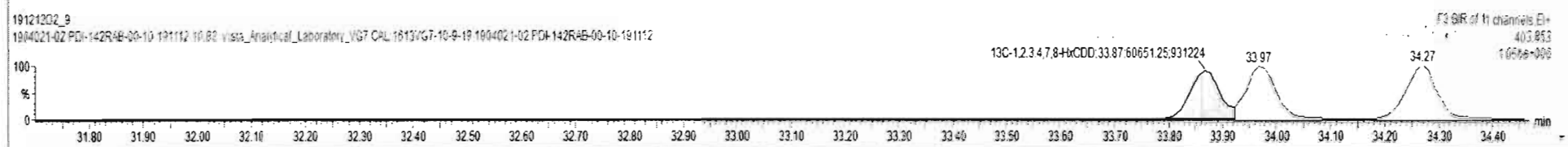
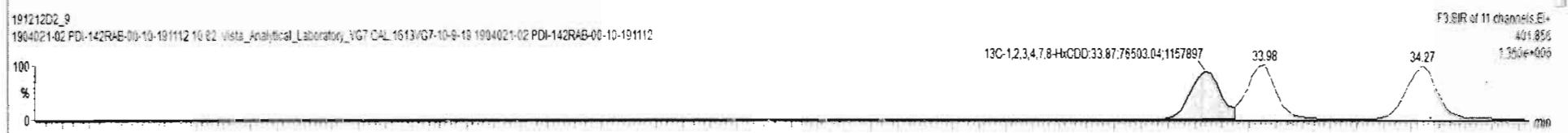
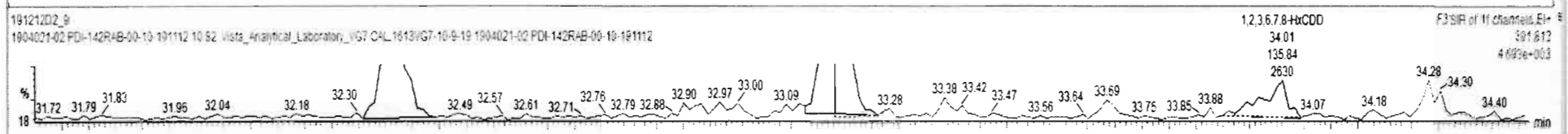
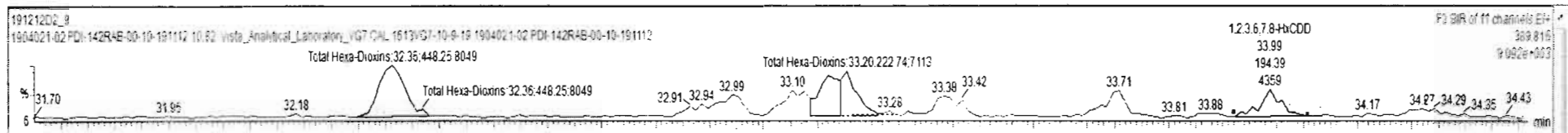


13C-1,2,3,4,7,8-HxCDD



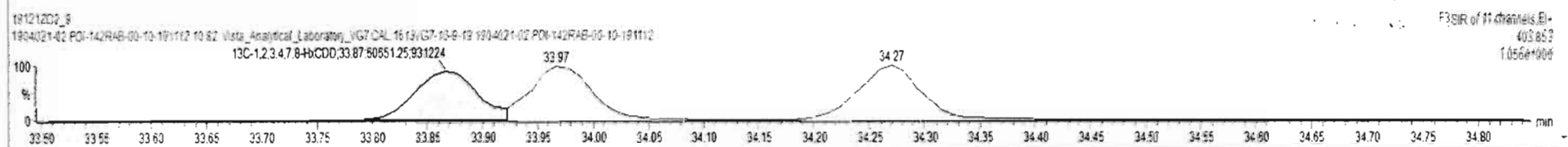
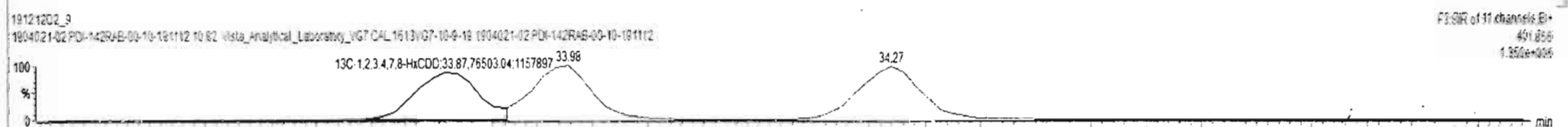
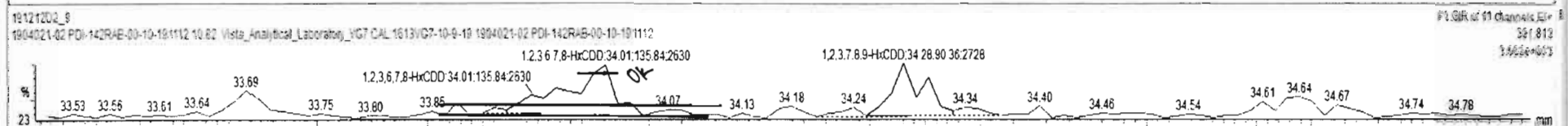
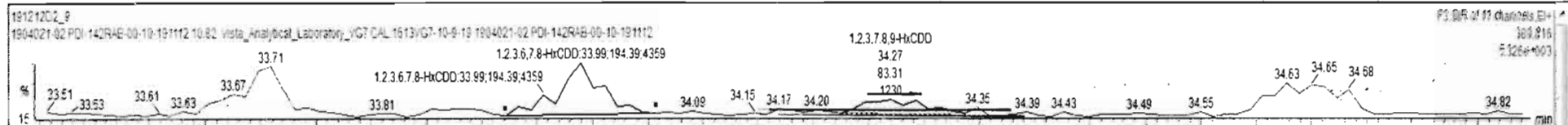
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27	27 13C-2,3,4,7,8-PeCDF	2.20e5	2.47e5	37	1.64	NO	0.847	10.060	30.29	30.29	1.189	1.189	NO	209.2	105	0.717	
28	28 13C-1,2,3,4,7,8-HxCDF	1.76e5	1.92e5	38	0.52	NO	0.932	10.060	32.97	32.98	0.968	0.987	NO	219.3	110	0.541	
29	29 13C-1,2,3,6,7,8-HxCDF	1.97e5	1.92e5	38	0.52	NO	1.034	10.060	33.09	33.11	0.992	0.991	NO	196.8	99.0	0.515	
30	30 13C-2,3,4,6,7,8-HxCDF	1.82e5	1.92e5	38	0.51	NO	0.953	10.060	33.70	33.70	1.009	1.005	NO	197.0	99.1	0.555	
31	31 13C-1,2,3,7,8,9-HxCDF	1.71e5	1.92e5	38	0.52	NO	0.828	10.060	34.69	34.64	1.037	1.039	NO	214.0	105	0.544	
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.75e5	1.92e5	38	0.44	NO	0.757	10.060	36.49	36.47	1.052	1.092	NO	238.9	120	0.857	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.32e5	1.92e5	38	0.42	NO	0.581	10.060	38.17	38.28	1.146	1.143	NO	235.1	118	1.12	
34	34 13C-OCDF	3.25e5	1.92e5	38	0.69	NO	0.689	10.060	41.18	41.21	1.234	1.232	NO	489.2	122	0.586	
35	35 37Cl-2,3,7,8-TCDD	7.25e4	1.54e5	36			1.198	10.060	26.03	26.05	1.023	1.022	NO	78.22	98.4	0.127	
36	36 13C-1,2,3,4-TCDD	1.54e5	1.54e5	36	0.00	NO	1.000	10.060	25.50	25.47	1.000	1.000	NO	198.8	100	0.447	
37	37 13C-1,2,3,4-TCDF	2.47e5	2.47e5	37	0.80	NO	1.000	10.060	24.56	24.03	1.000	1.000	NO	198.8	100	0.358	
38	38 13C-1,2,3,4,6,9-HxCDF	1.92e5	1.92e5	38	0.51	NO	1.000	10.060	33.42	33.39	1.000	1.000	NO	198.8	100	0.533	
39	39 Total Tetra-Dioxins		1.75e5				0.901	10.060	25.50			0.000	NO			0.0745	
40	40 Total Penta-Dioxins		1.46e5				0.872	10.060	30.00			0.000	NO			0.0815	
41	41 Total Hexa-Dioxins		0.06e0				0.976	10.060	33.80			0.000	NO	1.145		0.230	2.743

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc
1	41 Total Hexa-Dioxins	33.80	32.36	4.482e2	3.648e2	1.240	1.23	NO	1.1450	1.1450
2	41 Total Hexa-Dioxins	33.80	33.17	2.709e2	1.002e2	1.240	1.50	YES	0.58847	0.00000
3	41 Total Hexa-Dioxins	33.80	33.20	2.227e2	1.943e2	1.240	1.14	NO	0.58804	0.00000
4	4 1,2,3,6,7,8-HxCDD	32.58	33.99	1.944e2	1.258e2	1.240	1.43	YES	0.44136	0.60000



#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	w/vol	Pred.RT	RT	RRT	Pred.RRT	Check RRT	Conc	%Rec	DL	EMPC
27	27 13C-2,3,4,7,8-PeCDF	2.20e5	2.47e5	37	1.64	NO	0.847	10.060	30.29	30.29	1.189	1.189	NO	209.2	105	0.717	
28	28 13C-1,2,3,4,7,8-HxCDF	1.76e5	1.92e5	38	0.52	NO	0.832	10.060	32.97	32.98	0.968	0.967	NO	219.3	110	0.641	
29	29 13C-1,2,3,6,7,8-HxCDF	1.57e5	1.92e5	38	0.52	NO	1.034	10.060	33.09	33.11	0.992	0.991	NO	196.6	99.0	0.515	
30	30 13C-2,3,4,6,7,8-HxCDF	1.82e5	1.92e5	38	0.51	NO	0.953	10.060	33.70	33.70	1.009	1.009	NO	157.0	99.1	0.559	
31	31 13C-1,2,3,7,8,9-HxCDF	1.71e5	1.92e5	38	0.52	NO	0.828	10.060	34.65	34.64	1.037	1.038	NO	214.0	105	0.644	
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.75e5	1.62e5	38	0.44	NO	0.757	10.060	36.49	36.47	1.092	1.092	NO	238.9	120	0.857	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.32e5	1.92e5	38	0.42	NO	0.581	10.060	38.17	38.28	1.146	1.142	NO	235.1	118	1.12	
34	34 13C-OCDF	3.26e5	1.92e5	38	0.89	NO	0.689	10.060	41.18	41.21	1.234	1.232	NO	489.2	123	0.588	
35	35 37C-2,3,7,8-TCDD	7.25e4	1.54e5	36			1.198	10.060	26.03	26.05	1.023	1.022	NO	78.22	98.4	0.127	
36	36 13C-1,2,3,4-TCDD	1.54e5	1.54e5	36	0.80	NO	1.000	10.060	25.50	25.47	1.000	1.000	NO	198.6	100	0.447	
37	37 13C-1,2,3,4-TCDF	2.47e5	2.47e5	37	0.80	NO	1.000	10.060	24.06	24.03	1.000	1.000	NO	198.8	100	0.358	
38	38 13C-1,2,3,4,6,9-HxCDF	1.92e5	1.92e5	38	0.51	NO	1.000	10.060	33.42	33.39	1.000	1.000	NO	199.8	100	0.533	
39	39 Total Tetra-Dioxins		1.75e5				0.801	10.060	25.50			0.000	NO			0.0765	
40	40 Total Penta-Dioxins		1.48e5				0.872	10.060	30.00			0.000	NO			0.0515	
41	41 Total Hexa-Dioxins		0.00e0				0.978	10.060	33.80			0.000	NO	1.145		0.230	2.949

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	41 Total Hexa-Dioxins	33.60	32.36	4.462e2	3.648e2	1.240	1.23	NO	1.1450	1.1450
2	41 Total Hexa-Dioxins	33.80	33.17	2.709e2	1.802e2	1.240	1.56	YES	0.56547	0.00000
3	41 Total Hexa-Dioxins	32.60	33.20	2.227e2	1.948e2	1.240	1.14	NO	0.58804	0.00000
4	4 1,2,3,6,7,8-HxCDD	32.83	33.99	1.944e2	1.359e2	1.240	1.43	YES	0.44136	0.00000
5	5 1,2,3,7,8,9-HxCDD	34.30	34.27	8.331e1	9.036e1	1.240	0.92	YES	0.20645	0.00000



Vista Analytical Laboratory

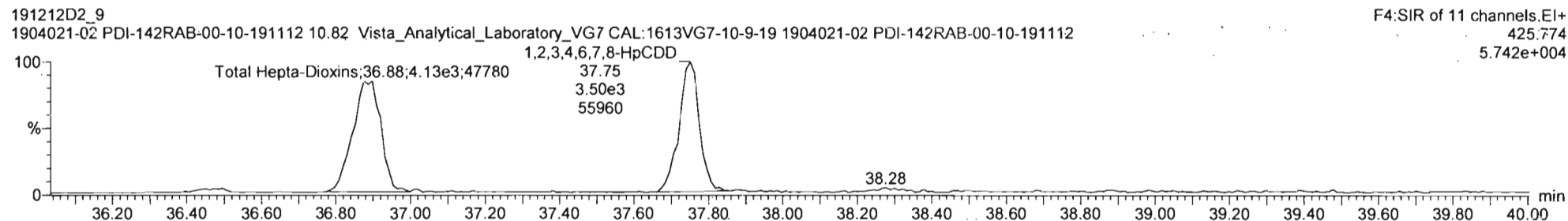
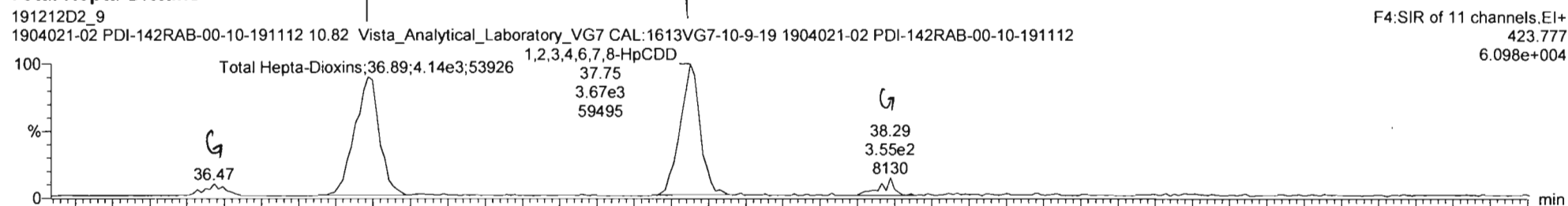
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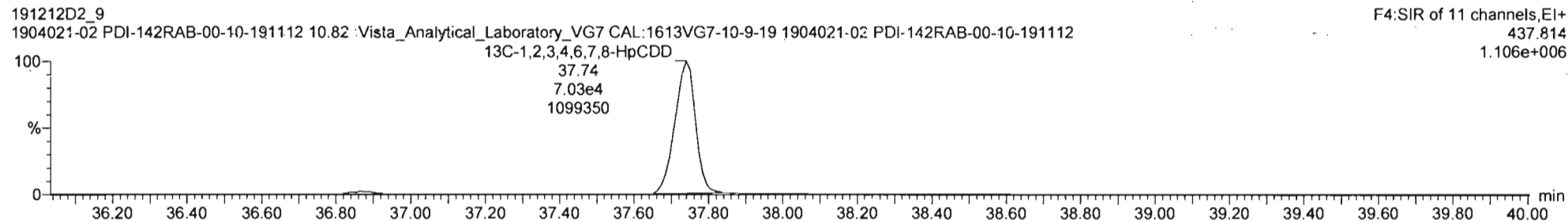
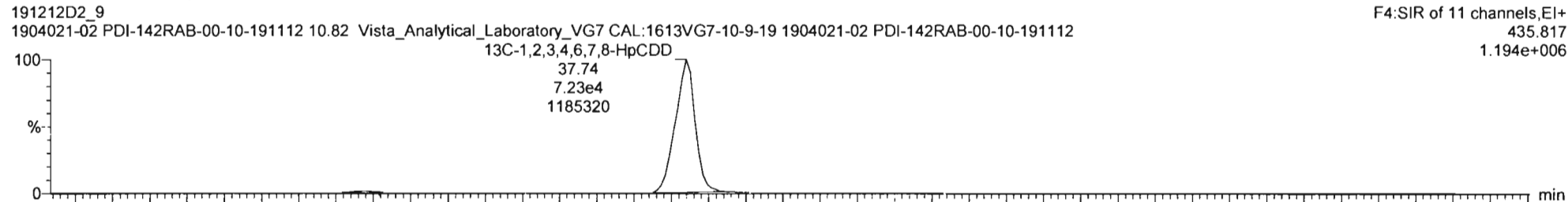
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Description: 1904021-02 PDI-142RAB-00-10-191112 10.82 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

Total Hepta-Dioxins



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

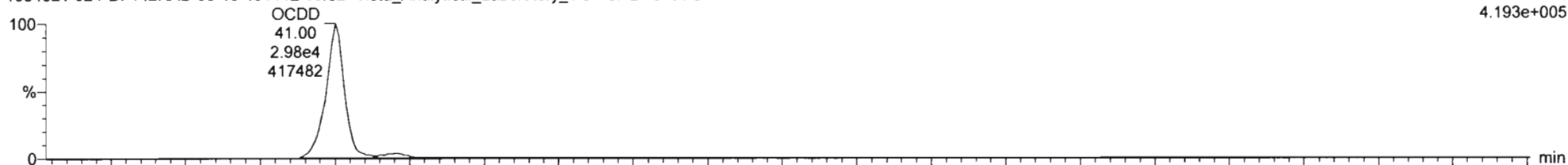


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OCDD

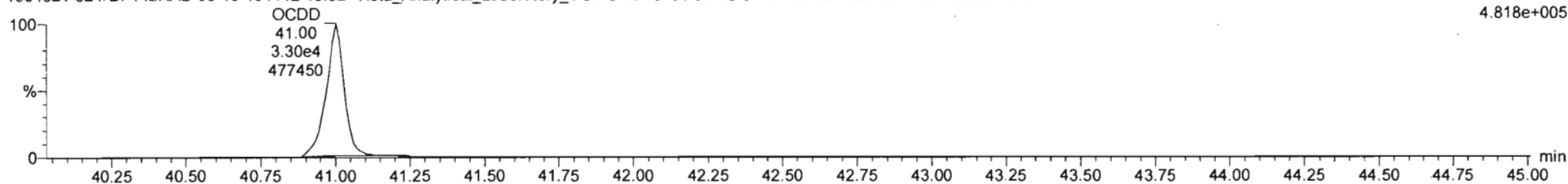
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F5:SIR of 11 channels,EI+
457.738
4.193e+005



191212D2_9
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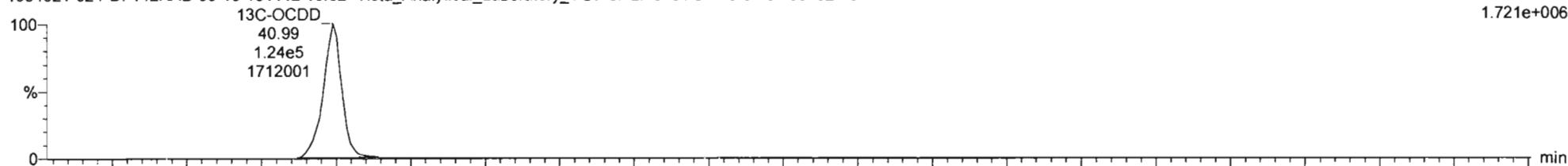
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13C-OCDD

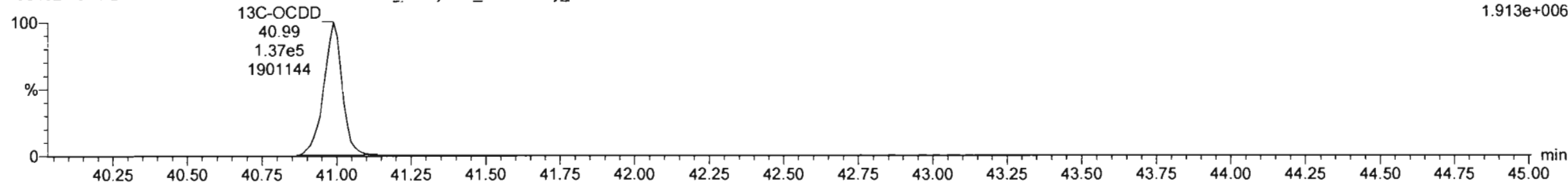
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F5:SIR of 11 channels,EI+
469.778
1.721e+006



191212D2_9
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F5:SIR of 11 channels,EI+
471.775
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Vista Analytical Laboratory

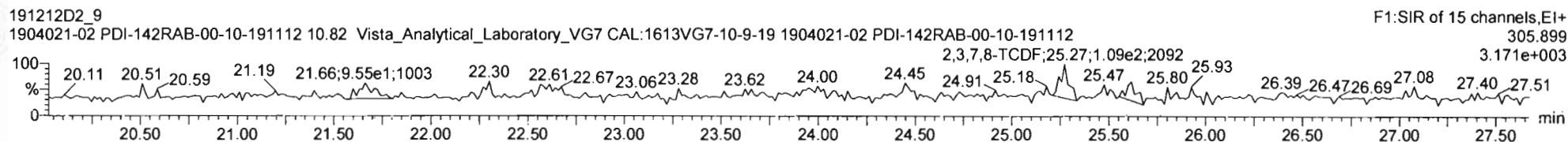
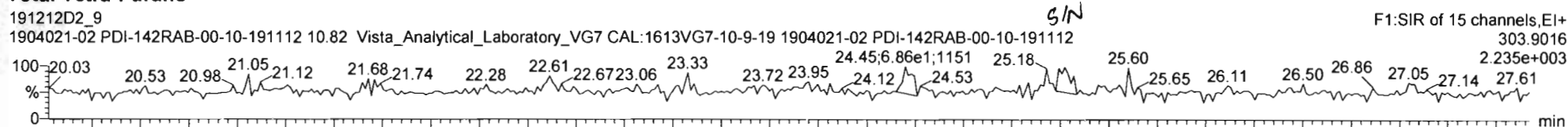
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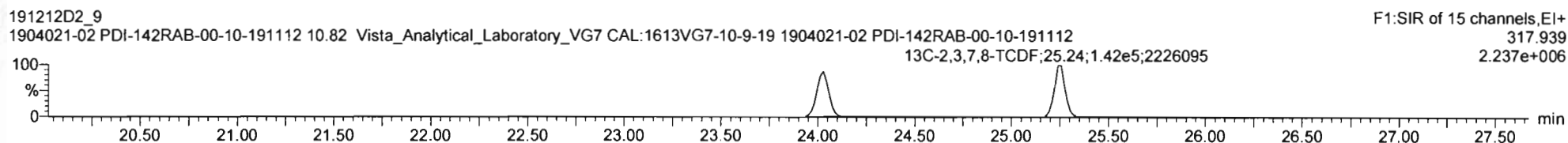
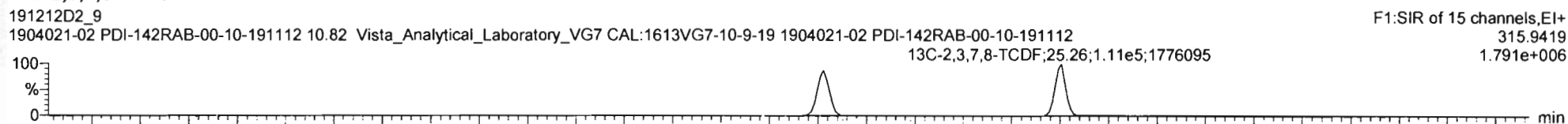
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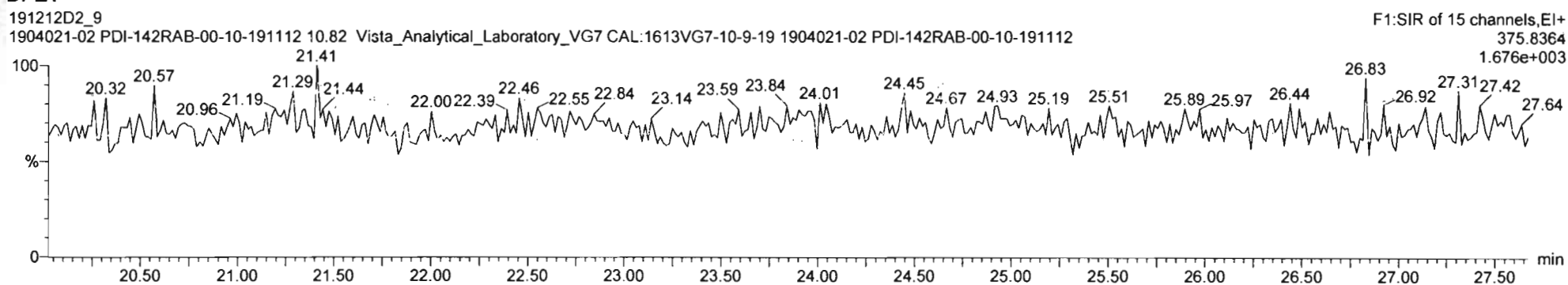
Total Tetra-Furans



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



DPE1



Vista Analytical Laboratory

Dataset: Untitled

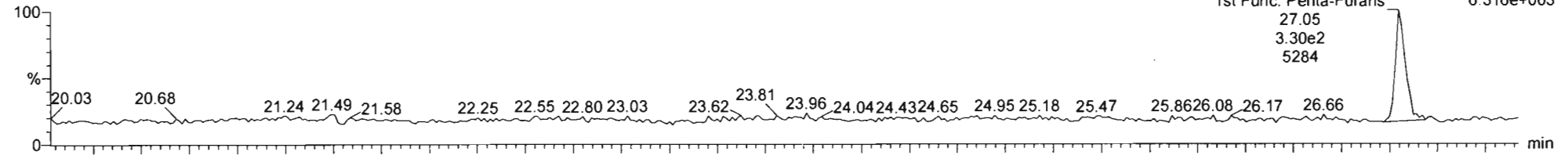
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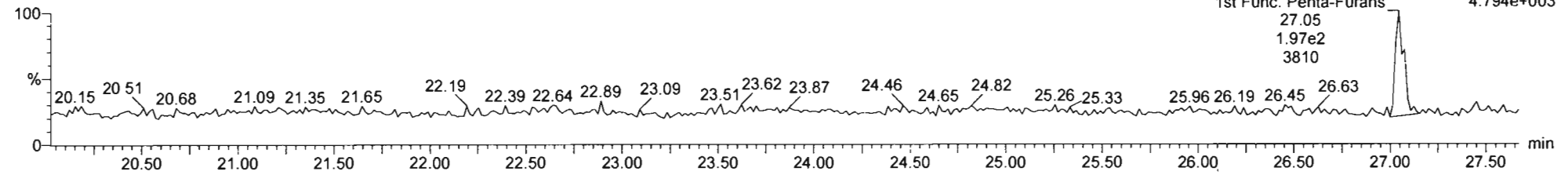
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Description: 1904021-02 PDI-142RAB-00-10-191112 10.82 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

1st Func. Penta-Furans

191212D2_9
1904021-02 PDI-142RAB-00-10-191112 10.82 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19 1904021-02 PDI-142RAB-00-10-191112

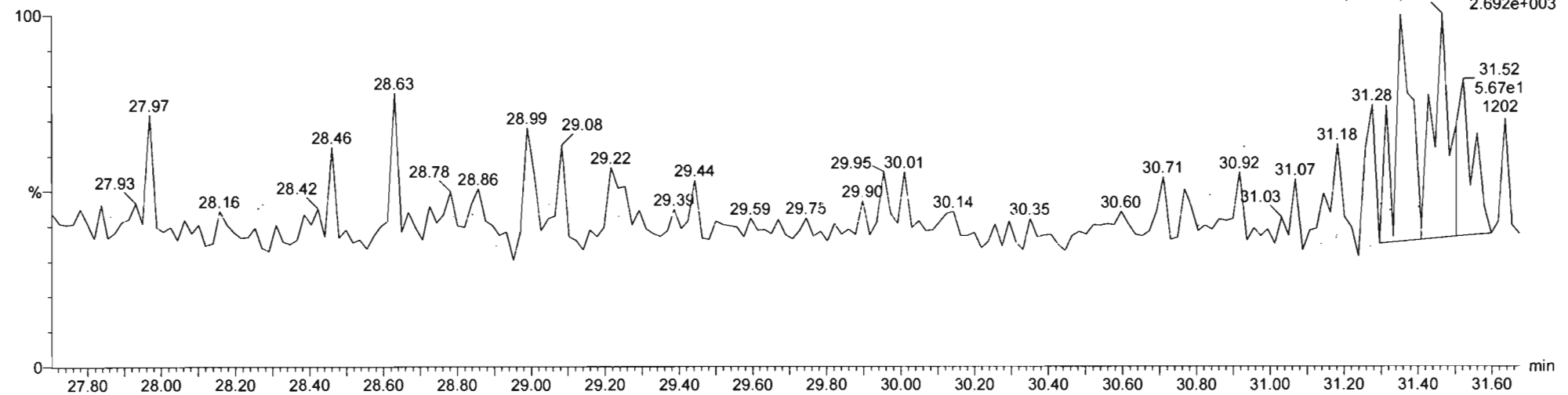


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DPE6

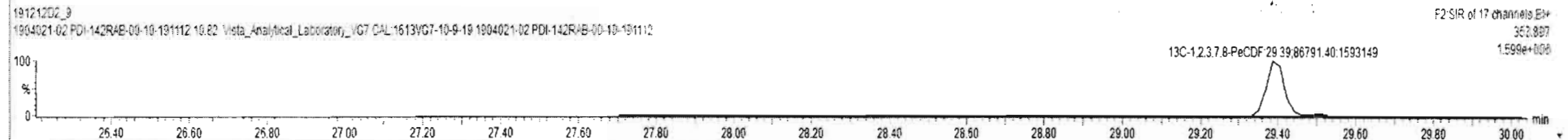
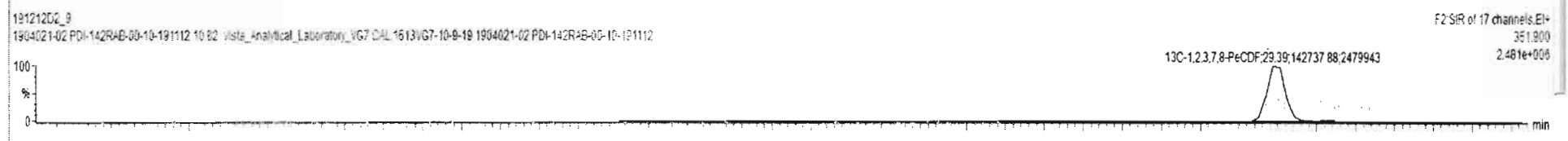
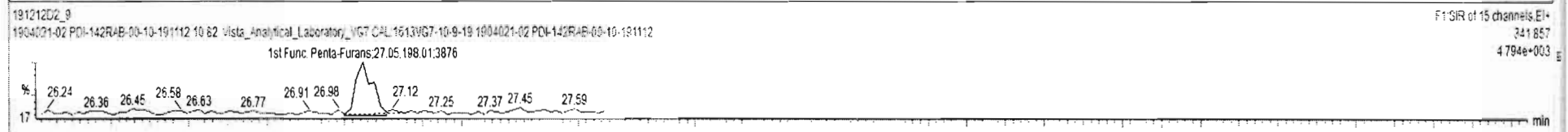
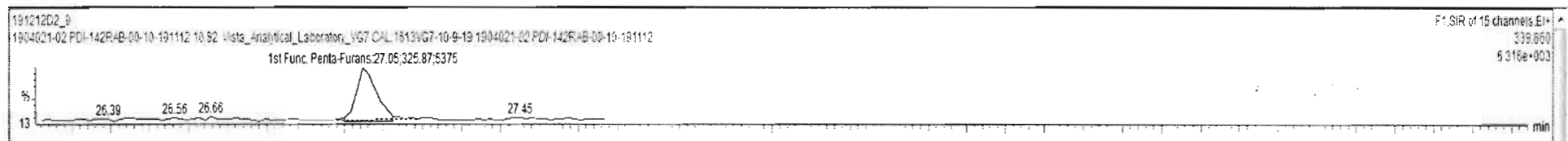
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19121202_9 - 1904021-02 PDI-142RAB-00-10-191112 - 1904021-02 PDI-142RAB-00-10-191112 10.82 Visla_Analytical_Laboratory_VG7.CAL 1613VG7-10-9-19

#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	Check RRT	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans		2.53e5				0.943	10.060	24.00			0.000	NO			0.0699	
44	1st Func. Penta-Furans		0.00e0				0.940	10.060	27.63			0.000	NO	0.4929		0.0627	0.4929
45	Total Penta-Furans		0.00e0				0.940	10.060	30.00			0.000	NO	0.3852		0.102	0.7258
46	Total Hexa-Furans		0.00e0				1.078	10.060	33.00			0.000	NO	1.937		0.129	2.046
47	Total Hepta-Furans		0.00e0				1.135	10.060	37.75			0.000	NO	4.281		0.141	4.281
48	PFK1																
49	PFK2																
50	PFK3																
51	PFK4																
52	PFK5																
53	DPE1																
54	DPE2																
55	DPE3																
56	DPE4																
57	DPE5																

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	44 1st Func. Penta-Furans	27.63	27.05	3.259e2	1.980e2	1.550	1.65	NO	0.49291	0.49291



Vista Analytical Laboratory

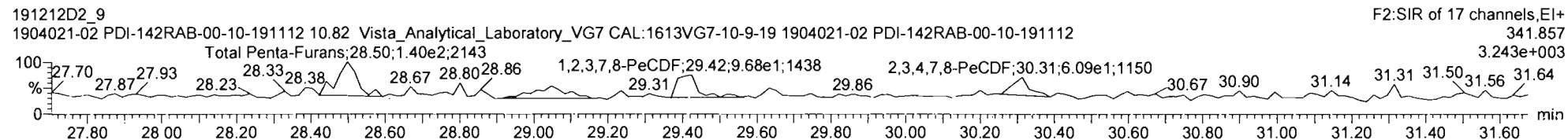
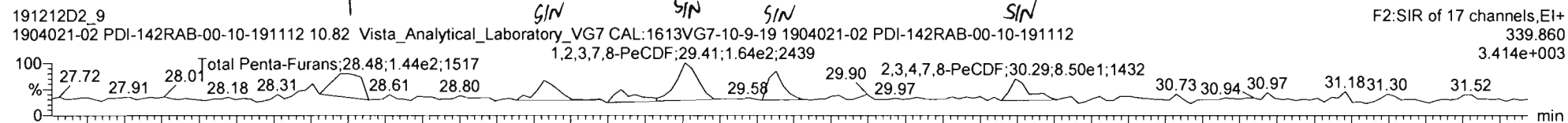
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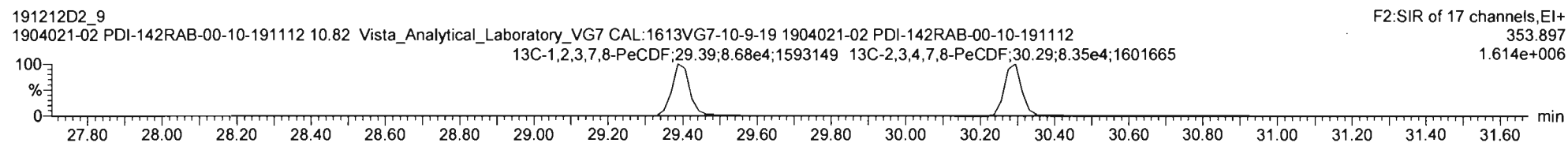
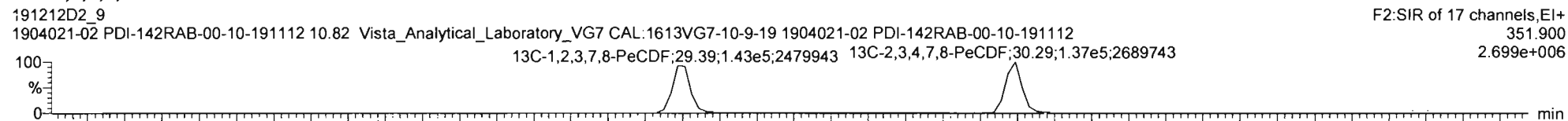
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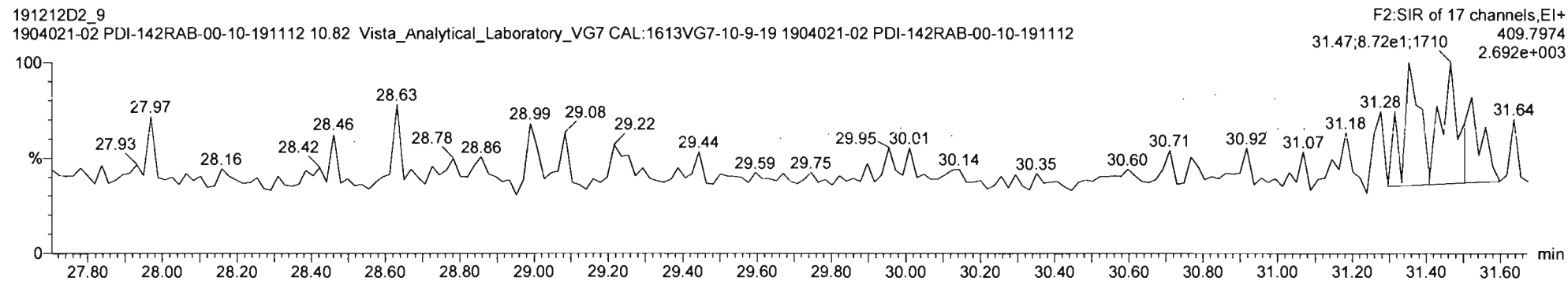
Total Penta-Furans



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



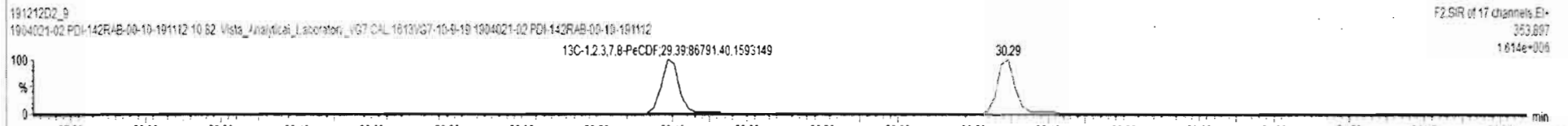
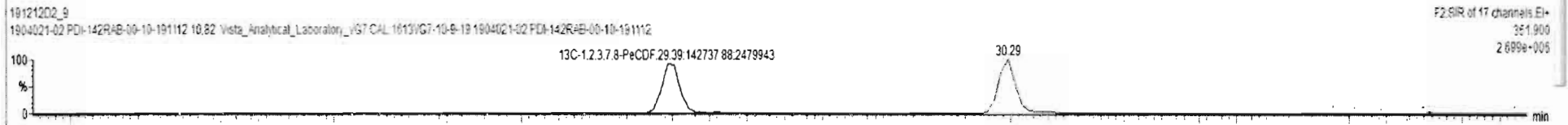
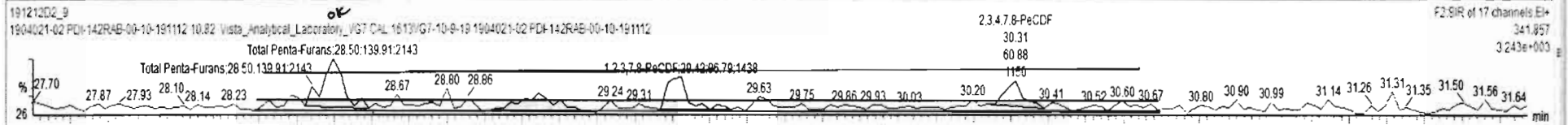
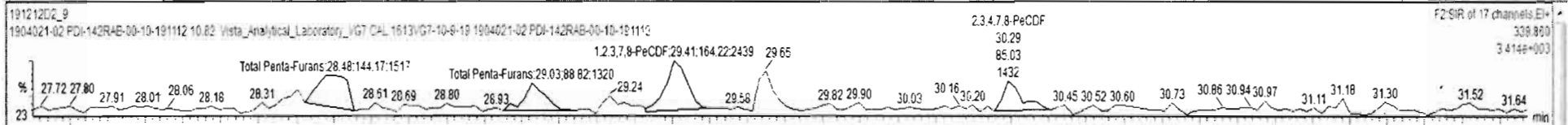
DPE2



191212D2_9 - 1904021-02 PDI-142RAB-00-10-191112 - 1904021-02 PDI-142RAB-00-10-191112 10.82 Vista_Analytical_Laboratory_VG7 CAL 1613VG7-10-9-19

#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wt/vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	EMPC
43	43 Total Tetra-Furans		2.50e5				0.943	10.060	24.00			0.000	NO			0.0699	
44	44 1st Func. Penta-Furans		0.00e0				0.940	10.060	27.63			0.000	NO	0.4829		0.0627	0.4929
45	45 Total Penta-Furans		0.00e0				0.940	10.060	30.00			0.000	NO	0.3652		0.102	0.7258
46	46 Total Hexa-Furans		0.00e0				1.078	10.060	33.00			0.000	NO	1.937		0.129	2.048
47	47 Total Hepta-Furans		0.00e0				1.125	10.060	37.75			0.000	NO	4.261		0.141	4.261
48	48 PFK1																
49	49 PFK2																
50	50 PFK3																
51	51 PFK4																
52	52 PFK5																
53	53 DPE1																
54	54 DPE2																
55	55 DPE3																
56	56 DPE4																
57	57 DPE5																

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc
1	45 Total Penta-Furans	30.00	28.48	1.442e2	1.399e2	1.550	1.03	YES	0.22315	0.00000
2	45 Total Penta-Furans	30.00	29.03	8.882e1	8.085e1	1.550	1.10	YES	0.13749	0.00000
3	9 1,2,3,7,8-PeCDF	29.41	26.41	1.642e2	9.679e1	1.550	1.70	NO	0.23541	0.23541
4	10 2,3,4,7,8-PeCDF	30.32	30.29	8.503e1	6.988e1	1.550	1.40	NO	0.12978	0.12978



Vista Analytical Laboratory

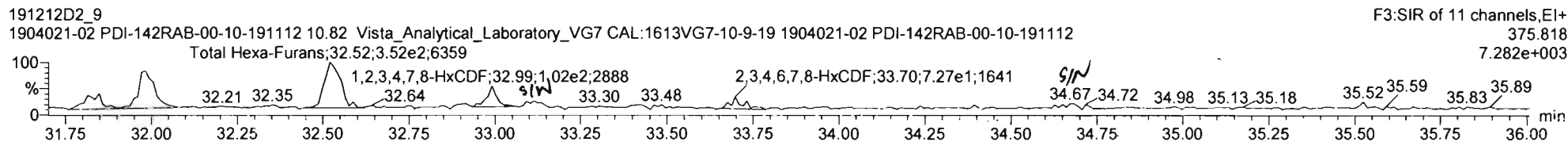
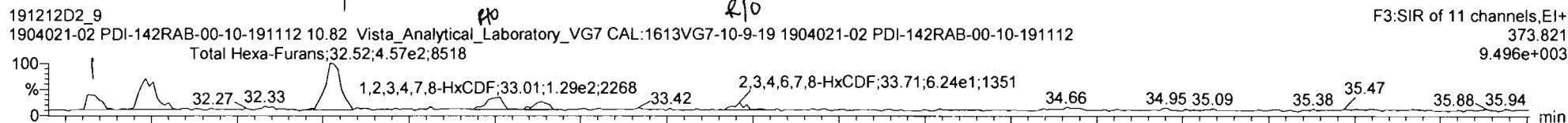
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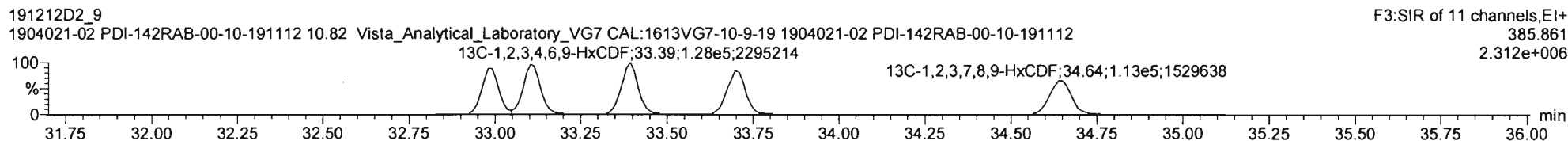
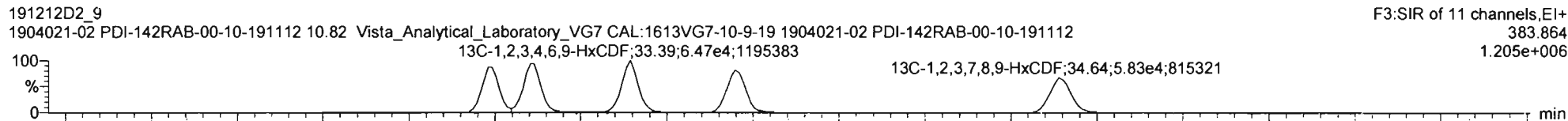
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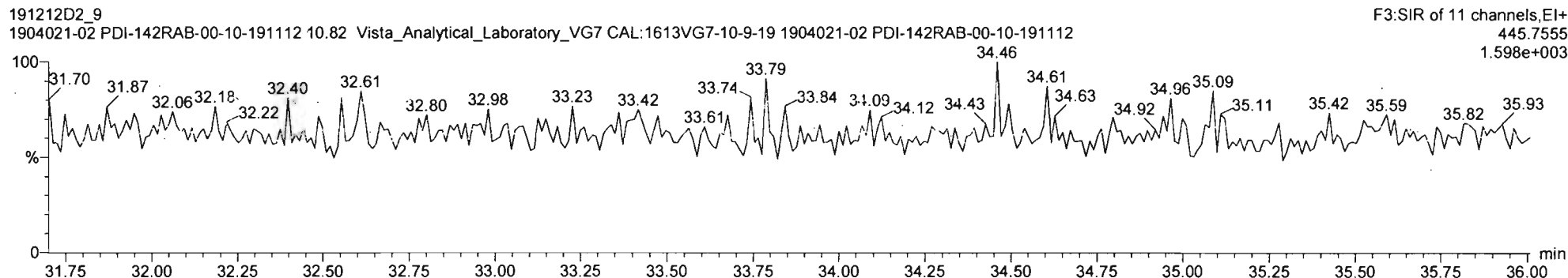
Total Hexa-Furans



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

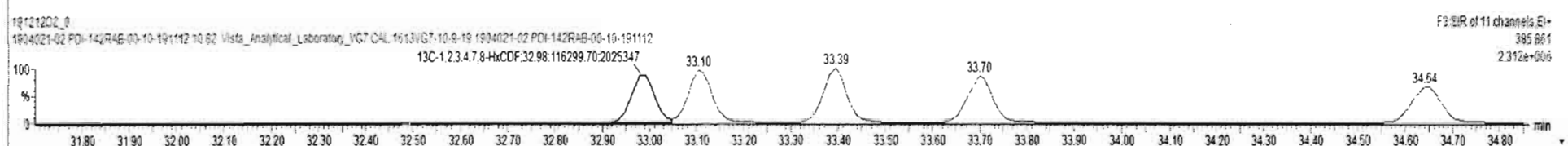
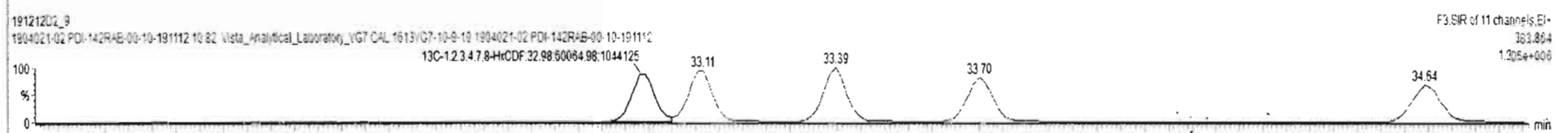
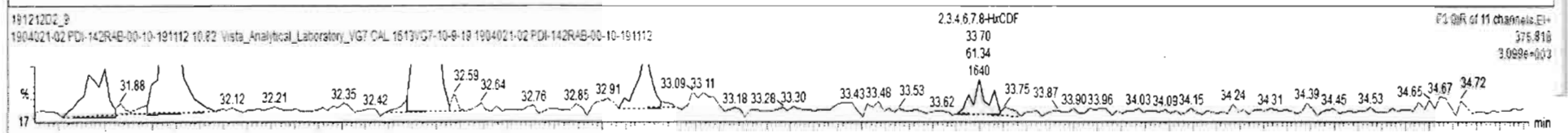
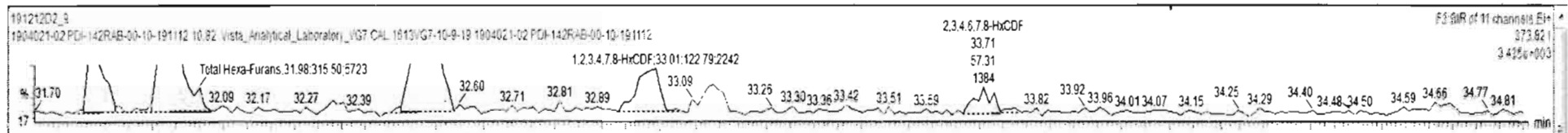


DPE3



Name	Resp	RA	nly	RRF	wtval	RT	RRT	Conc	%Rec	DL	EMPC
35	37C-2,3,7,8-TCDD	7.25e4			10.060	26.05	1.023	78.2	98.4	0.127	
36	13C-1,2,3,4-TCDD	1.54e5	0.80	NO	10.060	25.47	1.000	199	100	0.447	
37	13C-1,2,3,4-TCDF	2.47e5	0.80	NO	10.060	24.03	1.000	199	100	0.358	
38	13C-1,2,3,4,6,9-HxCDF	1.92e5	0.81	NO	10.060	33.35	1.000	199	100	0.533	
39	Total Tetra-Dioxins				10.060					0.0745	
40	Total Penta-Dioxins				10.060					0.0815	
41	Total Hexa-Dioxins				10.060			1.15		0.230	2.74
42	Total Hepta-Dioxins				10.060			21.9		0.377	21.9
43	Total Tetra-Furans				10.060					0.0559	
44	1st Func. Penta-Furans				10.060			0.493		0.0627	0.493
45	Total Penta-Furans				10.060			0.280		0.0459	0.280
46	Total Hexa-Furans				10.060			1.61		0.129	1.95
47	Total Hepta-Furans				10.060			4.28		0.141	4.28
48	PFK1										
49	PFK2										

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1	1,2,3,4,7,8-HxCDF	33.01	1.228e2	9.601e1	1.28	NO	0.20960
2	Total Hexa-Furans	32.52	4.481e2	3.283e2	1.36	NO	0.78903
3	Total Hexa-Furans	31.96	3.155e2	2.681e2	1.10	NO	0.61341
4	Total Hexa-Furans	31.81	1.275e2	1.257e2	1.62	YES	0.23484
5	2,3,4,6,7,8-HxCDF	33.71	5.731e1	6.134e1	0.93	YES	0.16177



Vista Analytical Laboratory

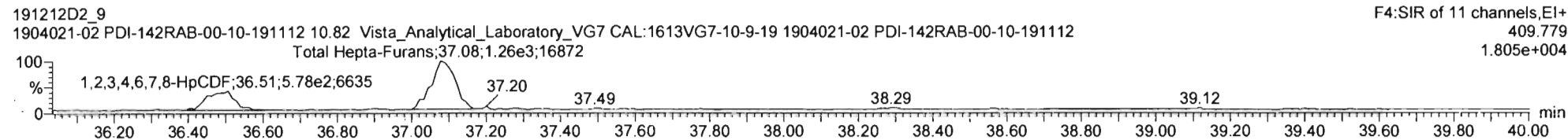
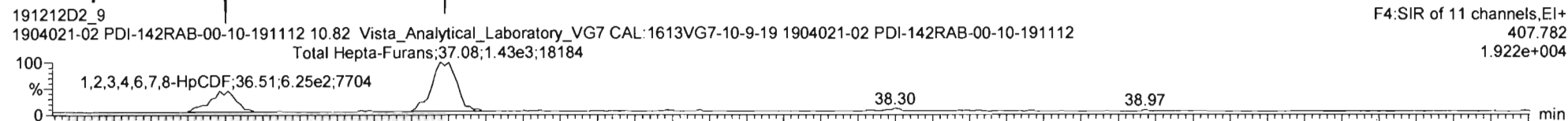
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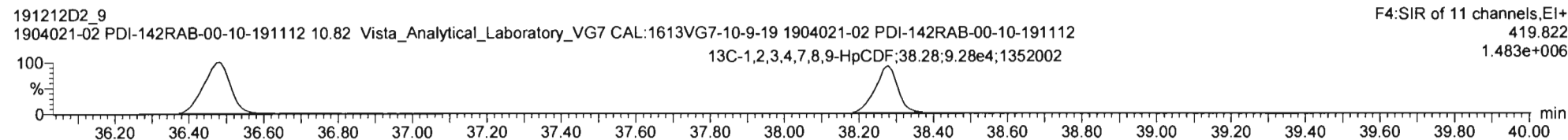
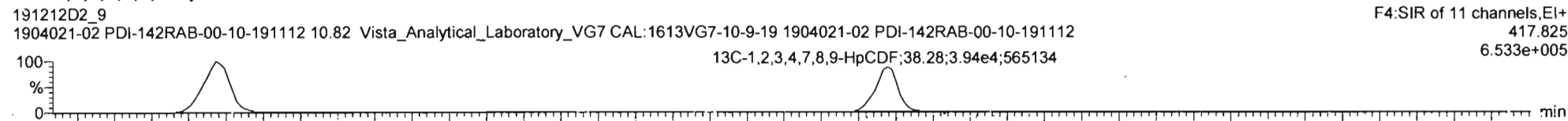
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Description: 1904021-02 PDI-142RAB-00-10-191112 10.82 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

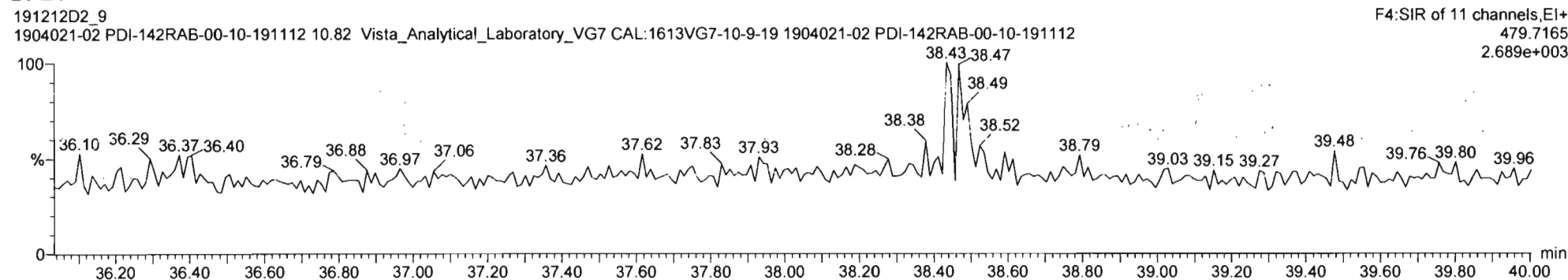
Total Hepta-Furans



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

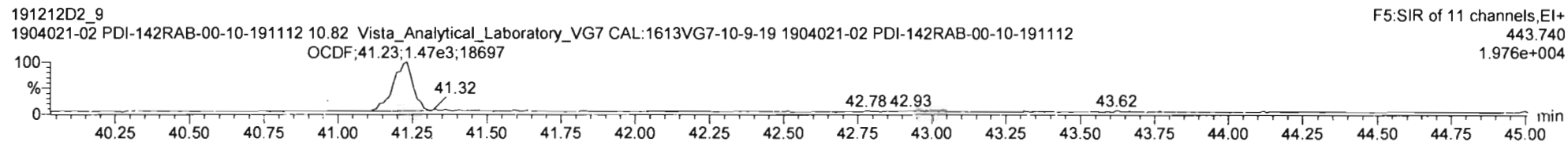
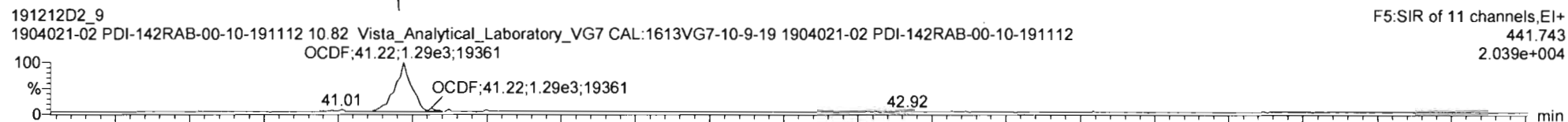


DPE4

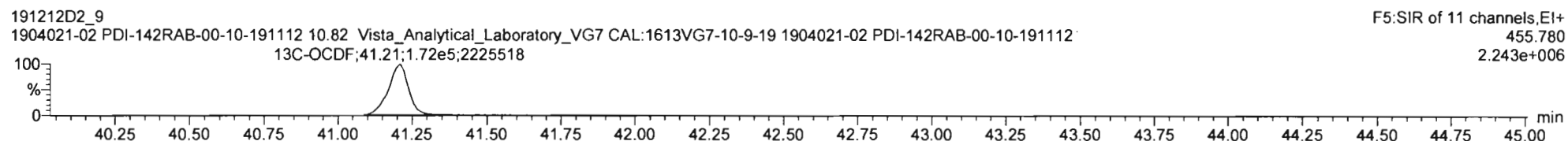
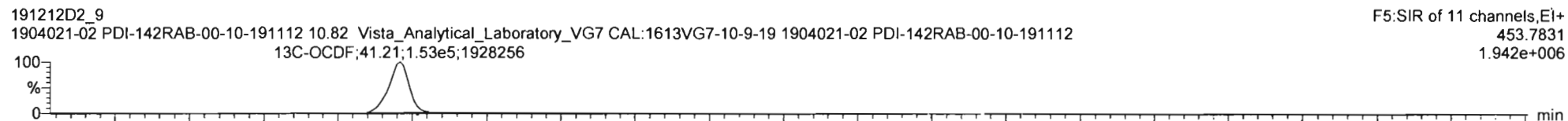


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Description: 1904021-02 PDI-142RAB-00-10-191112 10.82 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

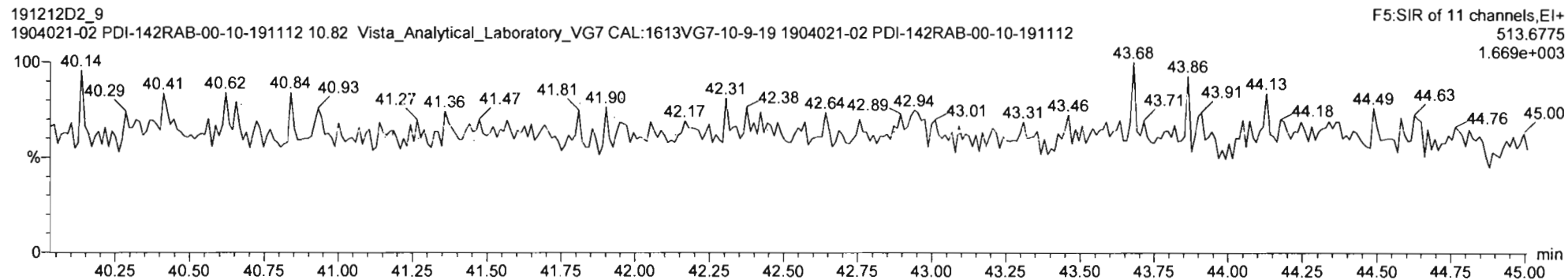
OCDF



13C-OCDF



DPE5



Vista Analytical Laboratory

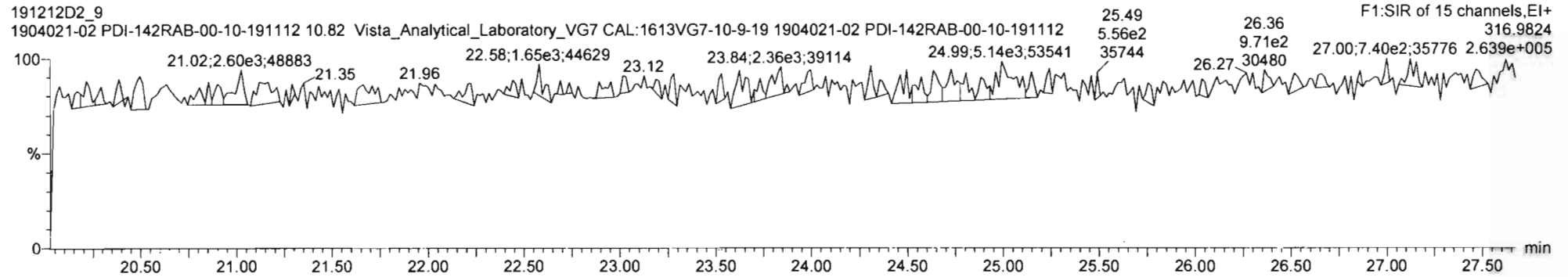
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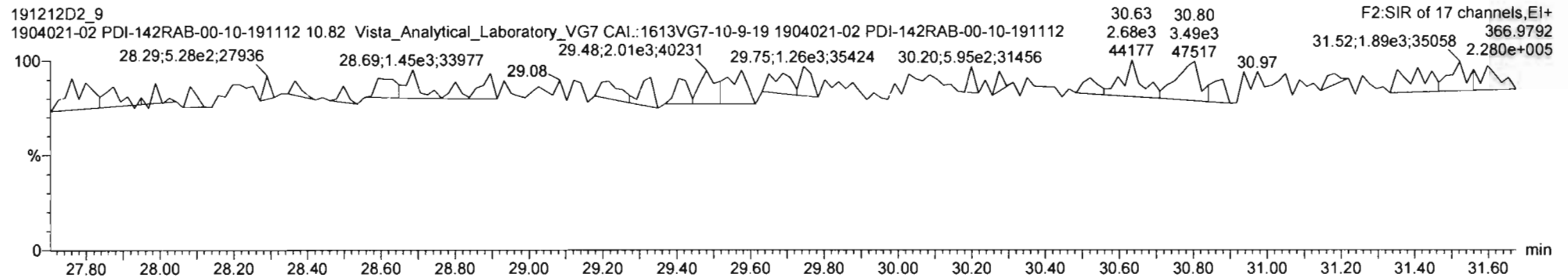
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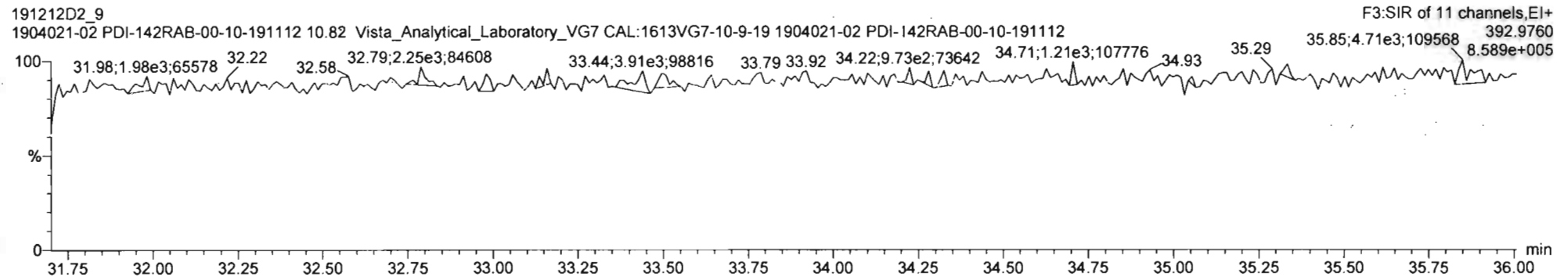
PFK1



PFK2



PFK3



Vista Analytical Laboratory

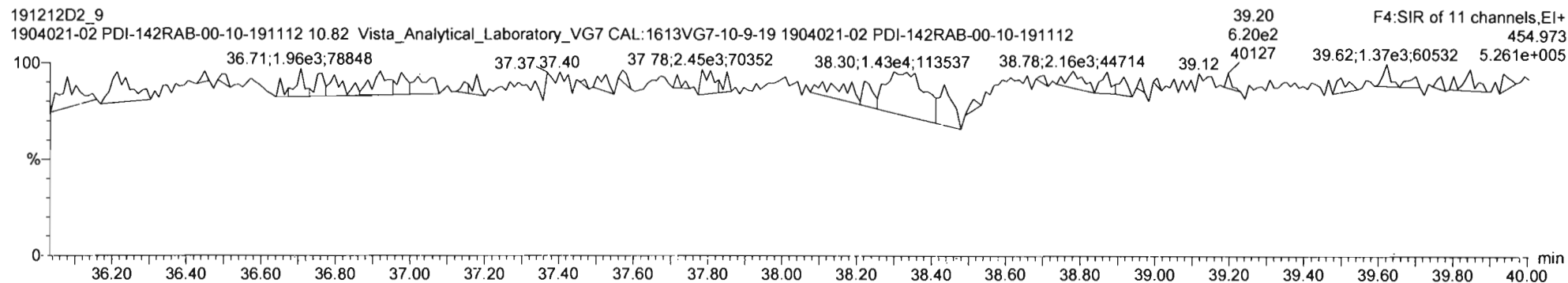
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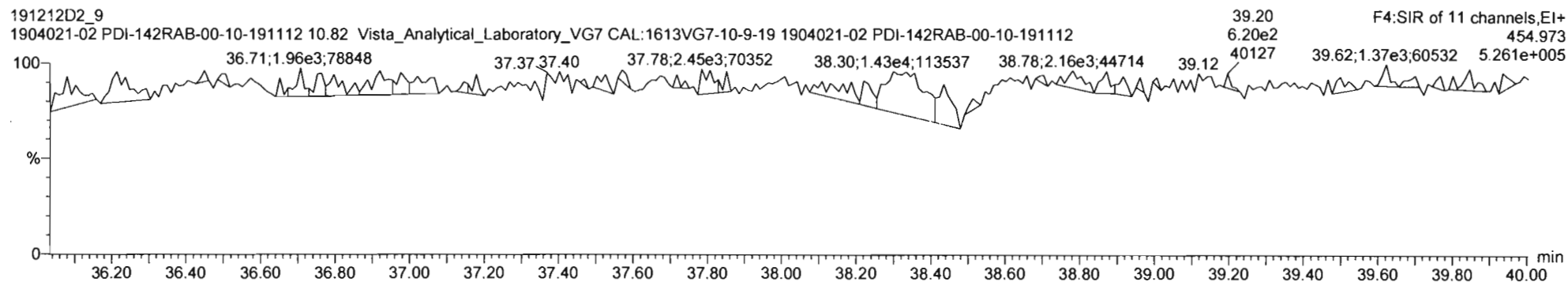
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Description: 1904021-02 PDI-142RAB-00-10-191112 10.82 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

PFK4



PFK5



Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191212D2\191212D2_10.qld
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EL 12/17/19

C12/28/19

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 Description: 1904021-03 PDI-142RAB-10-20-191112 10.64 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

#	Name	Area	IS Area	Wt./Vol.	RRF	RA	Y/N	Pred...	RRT	Pred.RT	RT	Conc.	%Rec	EMPC	DL
1	1 2,3,7,8-TCDD		6.10e4	10.0219	0.905			1.001		26.06					0.359
2	2 1,2,3,7,8-PeCDD		5.10e4	10.0219	0.903			1.001		30.59					0.508
3	3 1,2,3,4,7,8-HxCDD		4.45e4	10.0219	1.101			1.000		33.88					0.699
4	4 1,2,3,6,7,8-HxCDD		5.11e4	10.0219	0.939			1.000		33.97					0.743
5	5 1,2,3,7,8,9-HxCDD		5.21e4	10.0219	0.961			1.001		34.31					0.749
6	6 1,2,3,4,6,7,8-HpCDD	2.26e3	4.92e4	10.0219	0.979	1.056	NO	1.000	1.000	37.76	37.76	9.3571		9.36	0.699
7	7 OCDD	1.81e4	8.95e4	10.0219	0.959	0.873	NO	1.000	1.000	40.98	41.00	83.993		84.0	0.942
8	8 2,3,7,8-TCDF		8.75e4	10.0219	0.950			1.001		25.27					0.301
9	9 1,2,3,7,8-PeCDF		7.87e4	10.0219	0.960			1.001		29.41					0.255
10	10 2,3,4,7,8-PeCDF		7.51e4	10.0219	1.015			1.001		30.31					0.264
11	11 1,2,3,4,7,8-HxCDF		5.94e4	10.0219	1.177			1.000		32.99					0.309
12	12 1,2,3,6,7,8-HxCDF		6.84e4	10.0219	1.069			1.000		33.12					0.298
13	13 2,3,4,6,7,8-HxCDF		6.07e4	10.0219	1.114			1.001		33.74					0.349
14	14 1,2,3,7,8,9-HxCDF		5.89e4	10.0219	1.062			1.000		34.65					0.464
15	15 1,2,3,4,6,7,8-HpCDF	3.19e2	5.80e4	10.0219	1.128	0.958	NO	1.001	1.000	36.53	36.50	0.97482		0.975	0.374
16	16 1,2,3,4,7,8,9-HpCDF		4.87e4	10.0219	1.280			1.000		38.27					0.317
17	17 OCDF	9.44e2	1.15e5	10.0219	0.947	0.965	NO	1.000	1.001	41.20	41.23	3.4697		3.47	0.422
18	18 13C-2,3,7,8-TCDD	6.10e4	1.46e5	10.0219	1.095	0.801	NO	1.021	1.022	26.00	26.03	76.264	38.2		0.384
19	19 13C-1,2,3,7,8-PeCDD	5.10e4	1.46e5	10.0219	0.881	0.650	NO	1.187	1.200	30.22	30.56	79.297	39.7		0.279
20	20 13C-1,2,3,4,7,8-Hx...	4.45e4	1.79e5	10.0219	0.642	1.224	NO	1.014	1.014	33.86	33.87	77.180	38.7		0.758
21	21 13C-1,2,3,6,7,8-Hx...	5.11e4	1.79e5	10.0219	0.856	1.295	NO	1.017	1.017	33.98	33.97	66.553	33.3		0.569
22	22 13C-1,2,3,7,8,9-Hx...	5.21e4	1.79e5	10.0219	0.807	1.246	NO	1.026	1.026	34.28	34.28	71.869	36.0		0.603
23	23 13C-1,2,3,4,6,7,8-H...	4.92e4	1.79e5	10.0219	0.654	1.030	NO	1.126	1.130	37.62	37.74	83.807	42.0		0.811
24	24 13C-OCDD	8.95e4	1.79e5	10.0219	0.580	0.879	NO	1.226	1.227	40.95	40.98	171.92	43.1		0.429
25	25 13C-2,3,7,8-TCDF	8.75e4	2.34e5	10.0219	1.035	0.776	NO	0.992	0.991	25.26	25.25	72.157	36.2		0.417
26	26 13C-1,2,3,7,8-PeCDF	7.87e4	2.34e5	10.0219	0.854	1.569	NO	1.154	1.154	29.38	29.39	78.653	39.4		0.678
27	27 13C-2,3,4,7,8-PeCDF	7.51e4	2.34e5	10.0219	0.847	1.637	NO	1.189	1.189	30.28	30.28	75.692	37.9		0.683
28	28 13C-1,2,3,4,7,8-Hx...	5.94e4	1.79e5	10.0219	0.832	0.519	NO	0.987	0.988	32.98	32.99	79.567	39.9		0.648
29	29 13C-1,2,3,6,7,8-Hx...	6.84e4	1.79e5	10.0219	1.034	0.505	NO	0.991	0.991	33.09	33.11	73.594	36.9		0.521
30	30 13C-2,3,4,6,7,8-Hx...	6.07e4	1.79e5	10.0219	0.953	0.503	NO	1.009	1.009	33.71	33.70	70.918	35.5		0.566
31	31 13C-1,2,3,7,8,9-Hx...	5.89e4	1.79e5	10.0219	0.828	0.538	NO	1.039	1.037	34.69	34.65	79.198	39.7		0.651

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191212D2\191212D2_10.qld

Last Altered: Tuesday, December 17, 2019 11:55:46 Pacific Standard Time

Printed: Tuesday, December 17, 2019 11:56:50 Pacific Standard Time

Name: 191212D2_10, Date: 13-DEC-2019, Time: 08:07:11, ID: 1904021-03 PDI-142RAB-10-20-191112,
 Description: 1904021-03 PDI-142RAB-10-20-191112 10.64 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

#	Name	Area	IS Area	Wt./Vol.	RRF	RA	Y/N	Pred...	RRT	Pred.RT	RT	Conc.	%Rec	EMPC	DL
32	32 13C-1,2,3,4,6,7,8-H...	5.80e4	1.79e5	10.0219	0.757	0.424	NO	1.093	1.092	36.50	36.49	85.188	42.7		0.741
33	33 13C-1,2,3,4,7,8,9-H...	4.87e4	1.79e5	10.0219	0.581	0.416	NO	1.143	1.146	38.18	38.27	93.327	46.8		0.966
34	34 13C-OCDF	1.15e5	1.79e5	10.0219	0.689	0.927	NO	1.233	1.234	41.19	41.20	185.32	46.4		0.454
35	35 37Cl-2,3,7,8-TCDD	6.16e4	1.46e5	10.0219	1.198			1.022	1.023	26.03	26.06	70.532	88.4		0.188
36	36 13C-1,2,3,4-TCDD	1.46e5	1.46e5	10.0219	1.000	0.841	NO	1.000	1.000	25.50	25.47	199.56	100.0		0.421
37	37 13C-1,2,3,4-TCDF	2.34e5	2.34e5	10.0219	1.000	0.820	NO	1.000	1.000	24.06	24.02	199.56	100.0		0.431
38	38 13C-1,2,3,4,6,9-Hx...	1.79e5	1.79e5	10.0219	1.000	0.509	NO	1.000	1.000	33.42	33.40	199.56	100.0		0.539
39	39 Total Tetra-Dioxins		6.10e4	10.0219	0.901			0.000		25.50					0.207
40	40 Total Penta-Dioxins		5.10e4	10.0219	0.872			0.000		30.00					0.248
41	41 Total Hexa-Dioxins		0.00e0	10.0219	0.976			0.000		33.80		0.00000		0.890	0.445
42	42 Total Hepta-Dioxins		4.92e4	10.0219	0.989			0.000		37.75		21.426		21.4	0.692
43	43 Total Tetra-Furans		8.75e4	10.0219	0.943			0.000		24.00					0.132
44	44 1st Func. Penta-Fur...		0.00e0	10.0219	0.940			0.000		27.63		0.00000		0.301	0.0711
45	45 Total Penta-Furans		0.00e0	10.0219	0.940			0.000		30.00					0.110
46	46 Total Hexa-Furans		0.00e0	10.0219	1.078			0.000		33.00		0.32783		0.974	0.360
47	47 Total Hepta-Furans		0.00e0	10.0219	1.135			0.000		37.75		3.1799		3.18	0.365

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191212D2\191212D2_10.qld

Last Altered: Tuesday, December 17, 2019 11:55:46 Pacific Standard Time

Printed: Tuesday, December 17, 2019 11:56:50 Pacific Standard Time

Method: U:\VG7.PRO\MethDB\1613VG7-12-4-19.mdb 10 Dec 2019 16:21:14

Calibration: 17 Dec 2019 10:05:21

Name: 191212D2_10, Date: 13-DEC-2019, Time: 08:07:11, ID: 1904021-03 PDI-142RAB-10-20-191112,

Description: 1904021-03 PDI-142RAB-10-20-191112 10.64 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

Tetra-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1									

Penta-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1									

Hexa-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	41 Total Hexa-Dioxins	YES	32.36	151.116	27411.391	0.000	MM	0.0000	0.89

Hepta-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	NO	37.76	1160.948	24979.955	91.844	bb	9.3571	9.36
2	42 Total Hepta-Dioxins	NO	36.88	1543.808	24979.955	119.588	MM	12.0691	12.07

Tetra-Furans

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1									

Penta-Furans function 1

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	44 1st Func. Penta-Furans	YES	27.05	77.066	47368.717	0.000	MM	0.0000	0.30

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191212D2\191212D2_10.qld

Last Altered: Tuesday, December 17, 2019 11:55:46 Pacific Standard Time

Printed: Tuesday, December 17, 2019 11:56:50 Pacific Standard Time

Name: 191212D2_10, Date: 13-DEC-2019, Time: 08:07:11, ID: 1904021-03 PDI-142RAB-10-20-191112,
 Description: 1904021-03 PDI-142RAB-10-20-191112 10.64 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

Penta-Furans

	# Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1									

Hexa-Furans

	# Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	46 Total Hexa-Furans	YES	32.54	119.380	21039.296	0.000	MM	0.0000	0.65
2	46 Total Hexa-Furans	NO	31.99	58.280	21039.296	3.540	MM	0.3278	0.33

Hepta-Furans

	# Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	47 Total Hepta-Furans	NO	37.11	347.825	15787.701	25.075	bb	2.2050	2.21
2	15 1,2,3,4,6,7,8-HpCDF	NO	36.50	156.228	17261.113	11.016	bb	0.9748	0.97

Vista Analytical Laboratory

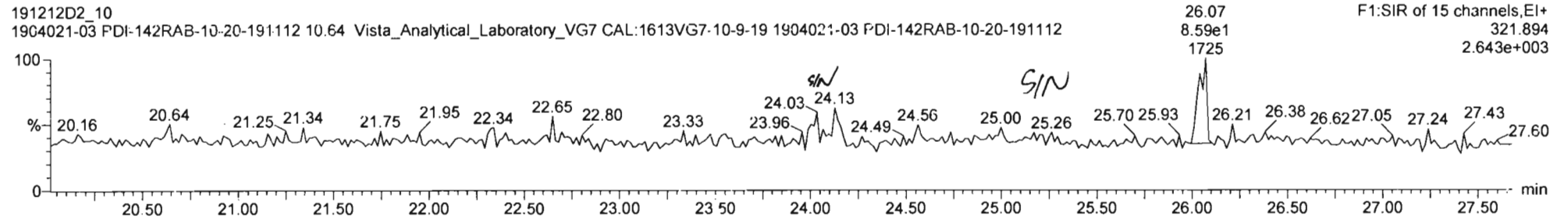
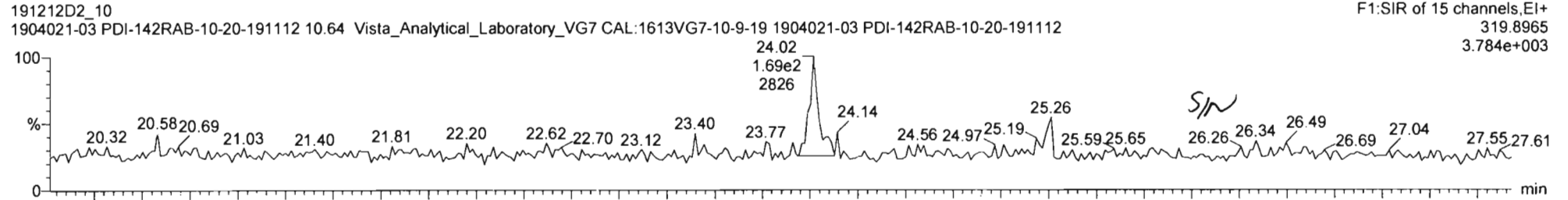
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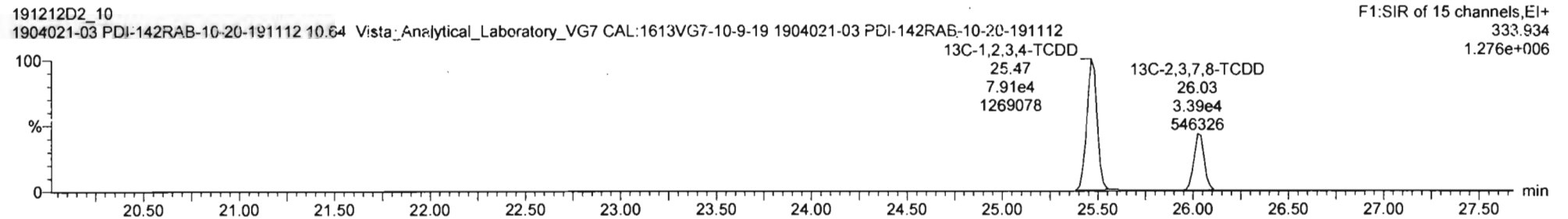
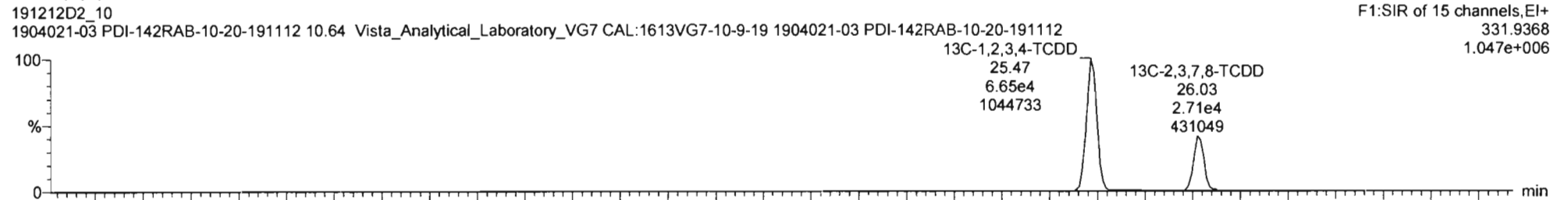
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Total Tetra-Dioxins



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



Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Tuesday, December 17, 2019 09:53:12 Pacific Standard Time

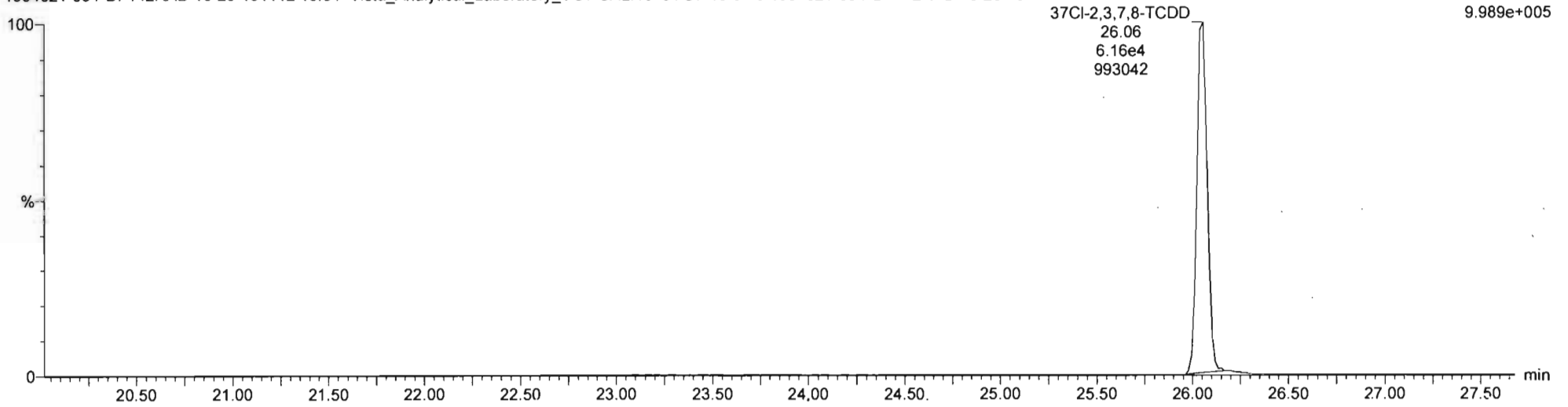
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Description: 1904021-03 PDI-142RAB-10-20-191112 10.64 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

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

191212D2_10
1904021-03 PDI-142RAB-10-20-191112 10.64 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19 1904021-03 PDI-142RAB-10-20-191112

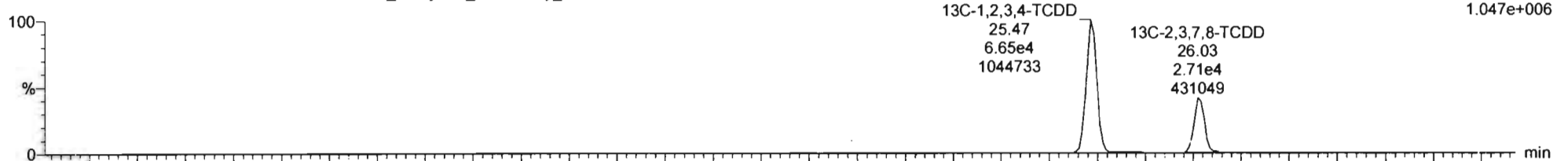
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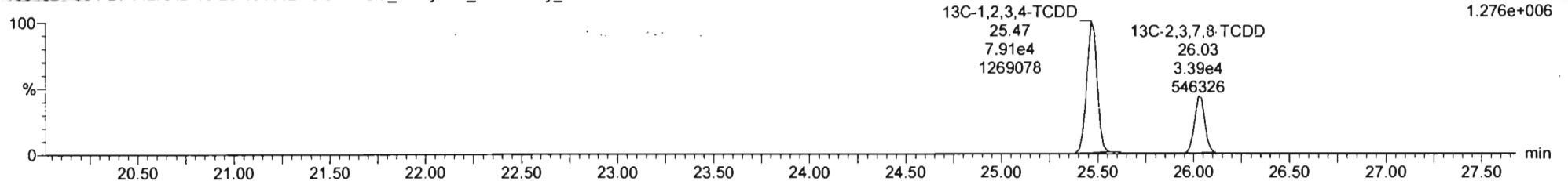
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F1:SIR of 15 channels,EI+
331.9368
1.047e+006



191212D2_10
1904021-03 PDI-142RAB-10-20-191112 10.64 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19 1904021-03 PDI-142RAB-10-20-191112

F1:SIR of 15 channels,EI+
333.934
1.276e+006



Vista Analytical Laboratory

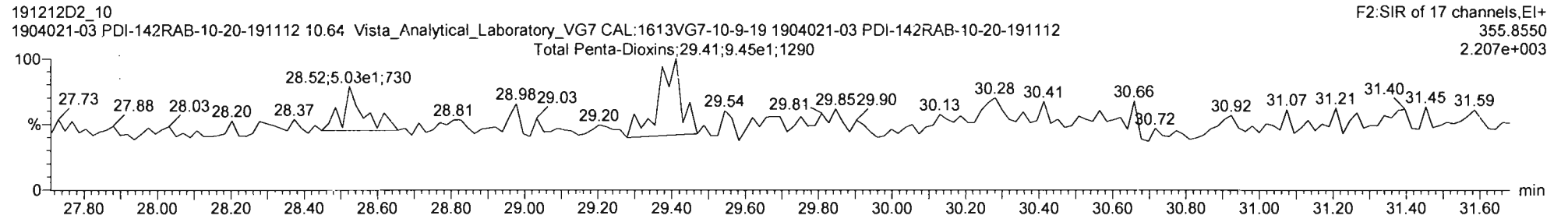
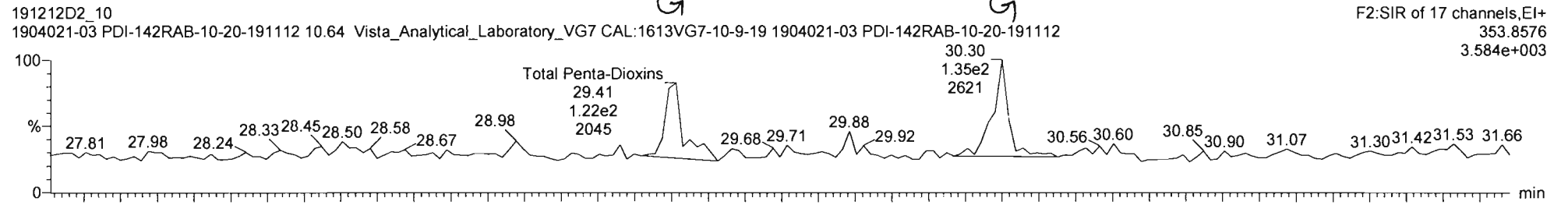
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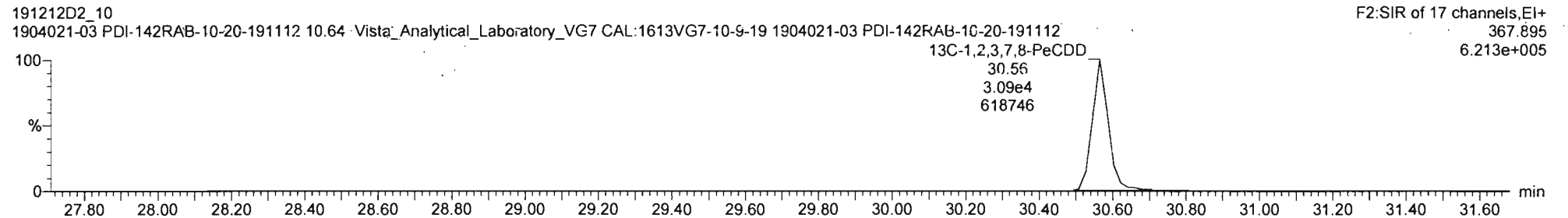
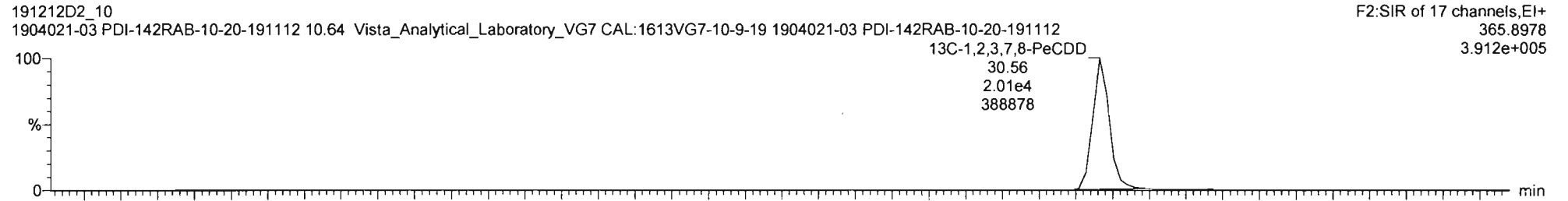
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Total Penta-Dioxins



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



Vista Analytical Laboratory

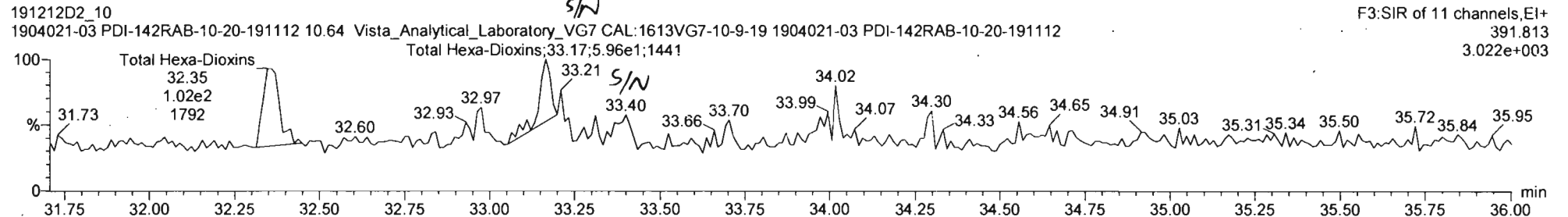
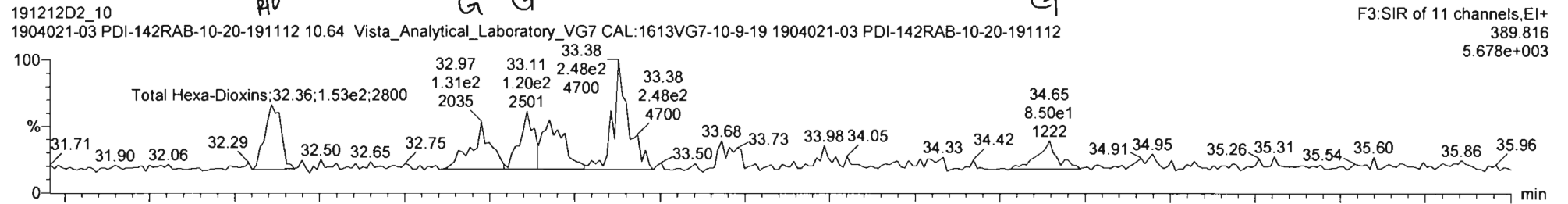
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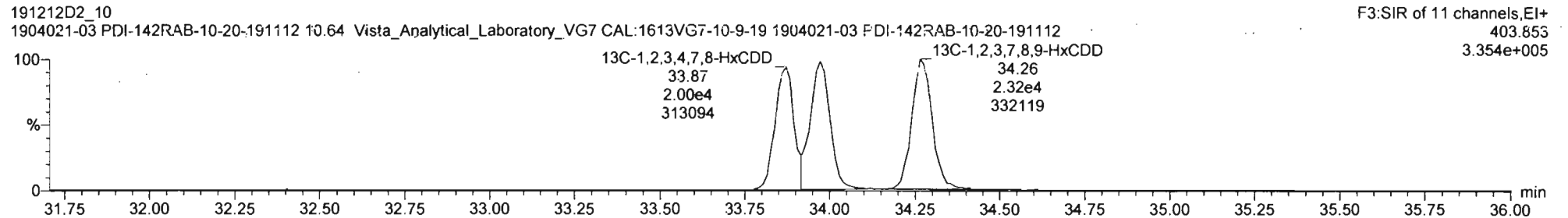
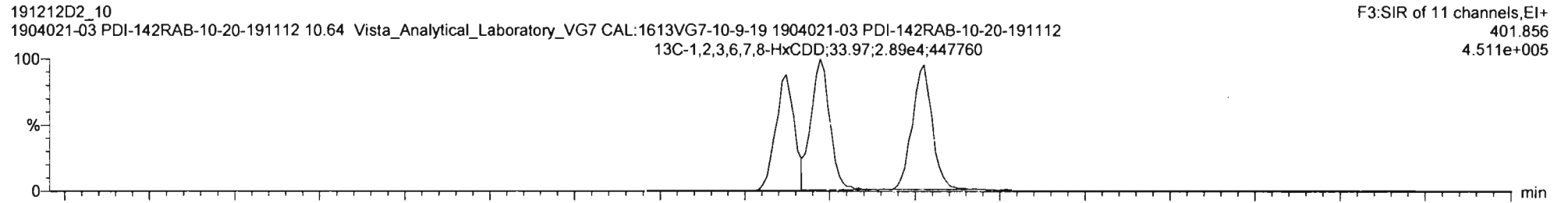
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Total Hexa-Dioxins



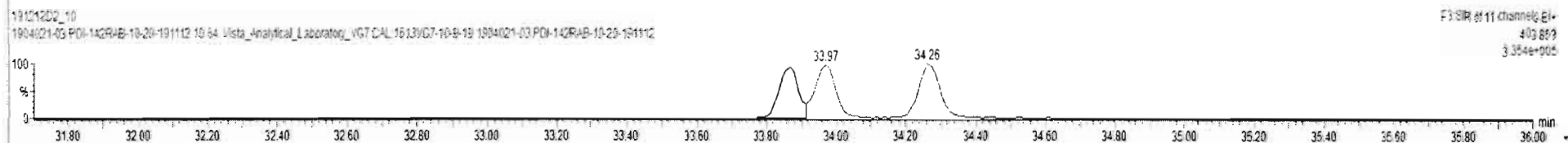
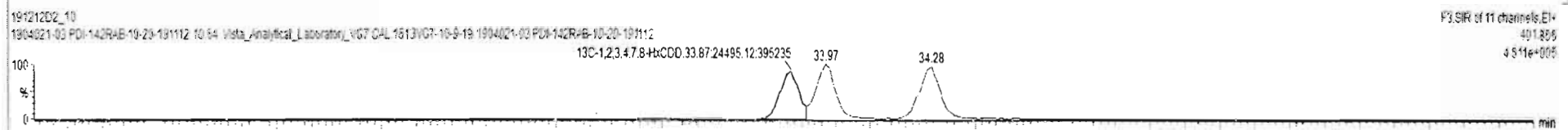
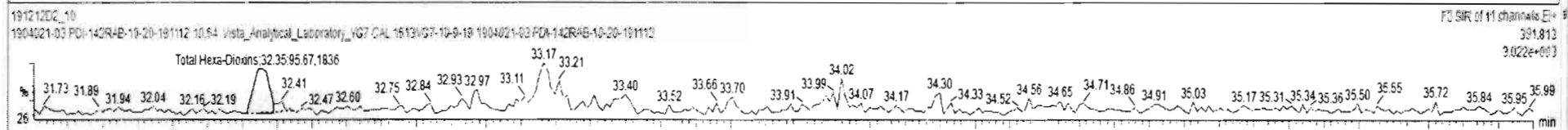
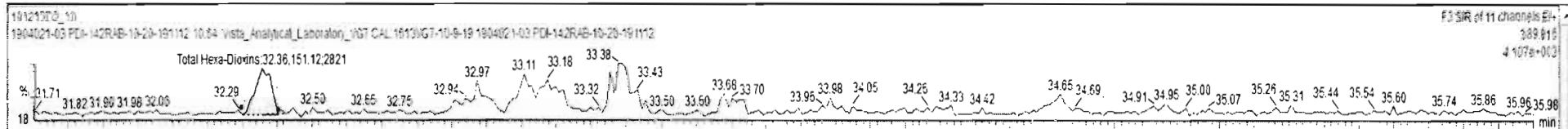
13C-1,2,3,4,7,8-HxCDD



191212D2_10 - 1904021-03 PDI-142RAB-10-20-191112 - 1904021-03 PDI-142RAB-10-20-191112 10.64 Vista_Analytical_Laboratory_VG7 CAL 1613VG7-10-9-19

#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wtVol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	EMPC
33	13C-1,2,3,4,7,8,9-HxCDF	4.87e4	1.79e5	38	0.42	NO	0.581	10.022	38.18	38.27	1.146	1.143	NO	93.33	48.8	0.998	
34	13C-DCDF	1.15e5	1.79e5	38	0.93	NO	0.689	10.022	41.19	41.20	1.234	1.233	NO	185.3	48.4	0.454	
35	37Cl-2,3,7,8-TCDD	6.16e4	1.46e5	36			1.198	10.022	26.03	26.06	1.023	1.022	NO	70.53	88.4	0.188	
36	13C-1,2,3,4-TCDD	1.48e5	1.48e5	36	0.84	NO	1.000	10.022	25.50	25.47	1.000	1.000	NO	199.6	100	0.421	
37	13C-1,2,3,4-TCDF	2.34e5	2.34e5	37	0.82	NO	1.000	10.022	24.06	24.02	1.000	1.000	NO	199.6	100	0.421	
38	13C-1,2,3,4,6,9-HxCDF	1.79e5	1.79e5	38	0.51	NO	1.000	10.022	33.42	33.40	1.000	1.000	NO	199.6	100	0.536	
39	Total Tetra-Dioxins	6.10e4					0.901	10.022	25.50			0.000	NO			0.297	
40	Total Penta-Dioxins	5.16e4					0.872	10.022	30.00			0.000	NO			0.248	
41	Total Hexa-Dioxins	0.00e0					0.976	10.022	33.80			0.000	NO	0.0000		0.445	0.8900
42	Total Hepta-Dioxins	4.92e4					0.989	10.022	37.75			0.000	NO	21.62		0.692	21.62
43	Total Tetra-Furans	8.75e4					0.942	10.022	24.00			0.000	NO			0.132	
44	1st Func. Penta-Furans	0.00e0					0.940	10.022	27.63			0.000	NO	0.0000		0.0711	0.3428
45	Total Penta-Furans	0.00e0					0.940	10.022	30.00			0.000	NO			0.110	
46	Total Hexa-Furans	0.00e0					1.078	10.022	33.00			0.000	NO	0.8382		0.360	1.350
47	Total Hepta-Furans	0.00e0					1.135	10.022	37.75			0.000	NO	3.180		0.365	3.180

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	41 Total Hexa-Dioxins	33.80	32.36	1.511e2	9.567e1	1.240	1.56	YES	0.86999	0.00000



Vista Analytical Laboratory

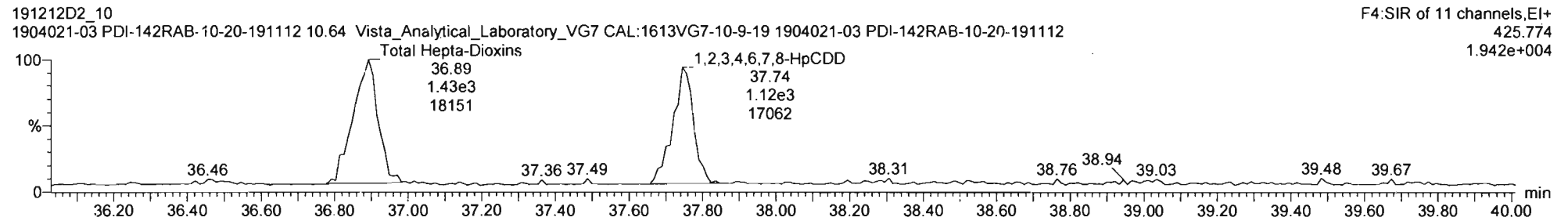
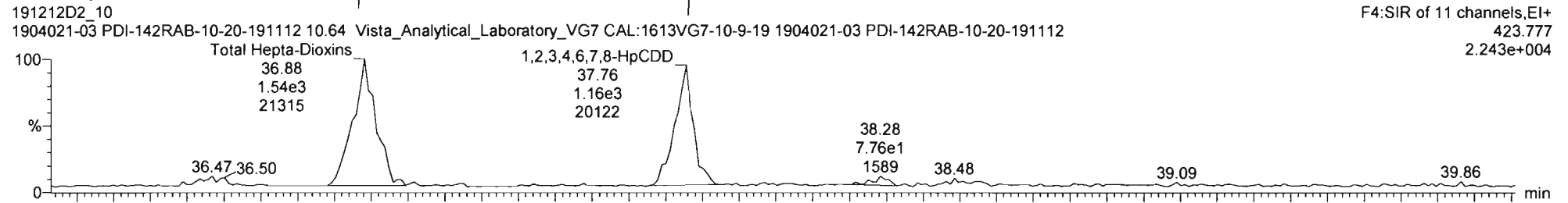
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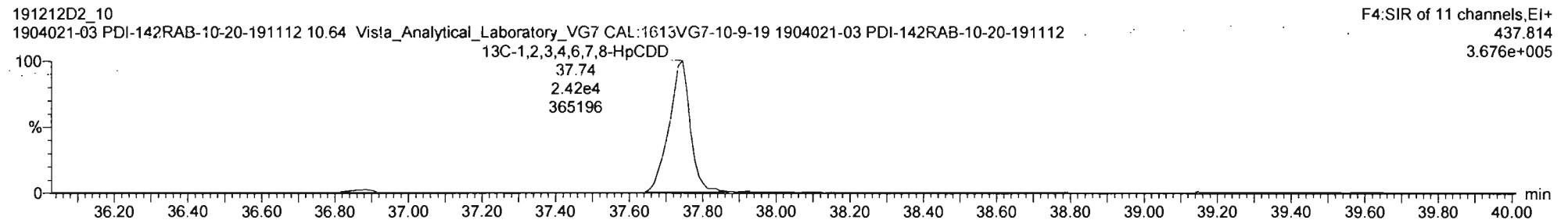
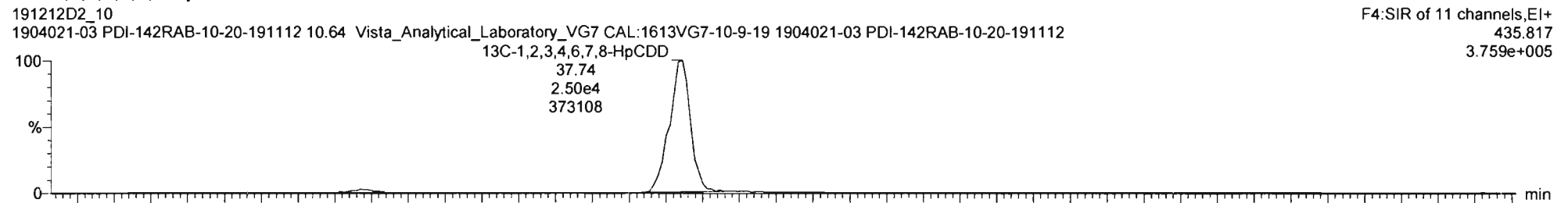
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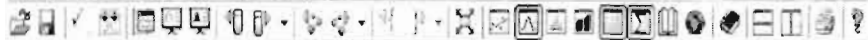
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Total Hepta-Dioxins



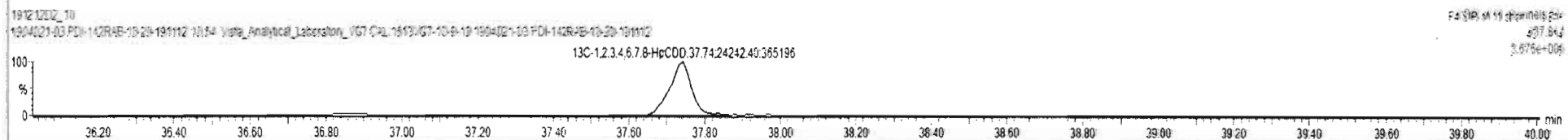
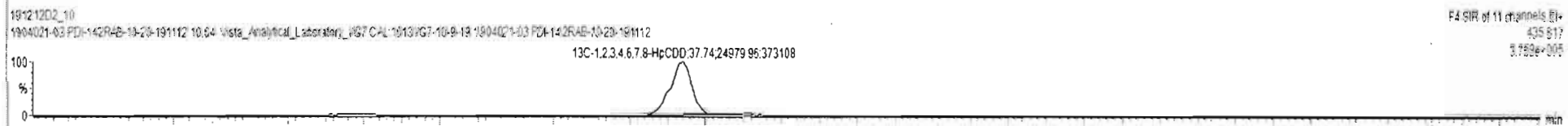
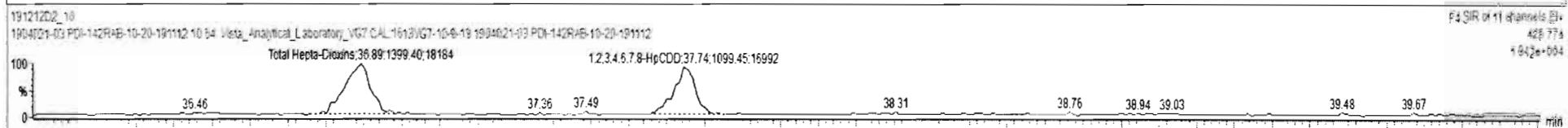
13C-1,2,3,4,6,7,8-HpCDD





#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wtVol	Pred RT	RT	RRT	Pred.RRT	Check RRT	Conc	%Rec	DL	EMPC
33	13C-1,2,3,4,7,8,9-HpCDF	4.87e4	1.79e5	36	0.42	NO	0.581	10.022	36.18	36.27	1.146	1.143	NO	93.33	46.8	0.966	
34	13C-OCDF	1.15e5	1.79e5	36	0.93	NO	0.689	10.022	41.19	41.29	1.234	1.233	NO	185.3	46.4	0.454	
35	37Cl-2,3,7,8-TCDD	6.16e4	1.46e5	36			1.198	10.022	26.03	26.06	1.023	1.022	NO	70.53	88.4	0.186	
36	13C-1,2,3,4-TCDD	1.46e5	1.46e5	36	0.84	NO	1.000	10.022	25.50	25.47	1.000	1.000	NO	199.6	100	0.421	
37	13C-1,2,3,4-TCDF	2.34e5	2.34e5	37	0.82	NO	1.000	10.022	24.06	24.02	1.000	1.000	NO	199.6	100	0.431	
38	13C-1,2,3,4,6,9-HxCDF	1.79e5	1.79e5	38	0.51	NO	1.000	10.022	33.42	33.40	1.000	1.000	NO	199.6	100	0.538	
39	Total Tetra-Dioxins		6.10e4				0.901	10.022	25.50			0.000	NO				0.207
40	Total Penta-Dioxins		5.10e4				0.872	10.022	30.00			0.000	NO				0.248
41	Total Hexa-Dioxins		0.00e0				0.976	10.022	33.00			0.000	NO	0.0000			0.445
42	Total Hepta-Dioxins		4.82e4				0.989	10.022	37.75			0.000	NO	21.43		0.692	21.43
43	Total Tetra-Furans		8.75e4				0.943	10.022	24.00			0.000	NO				0.132
44	1st Func. Penta-Furans		0.00e0				0.940	10.022	27.63			0.000	NO	0.0000		0.0711	0.3438
45	Total Penta-Furans		0.00e0				0.940	10.022	30.00			0.000	NO				0.116
46	Total Hexa-Furans		0.00e0				1.078	10.022	33.00			0.000	NO	0.3382		0.350	1.390
47	Total Hepta-Furans		0.00e0				1.135	10.022	37.75			0.000	NO	3.160		0.365	3.160

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	42 Total Hepta-Dioxins	37.75	36.88	1.544e3	1.389e3	1.040	1.10	NO	12.069	12.069
2	6 1,2,3,4,6,7,8-HpCDD	37.76	37.76	1.161e3	1.099e3	1.040	1.06	NO	9.3571	9.3571



Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Tuesday, December 17, 2019 09:53:12 Pacific Standard Time

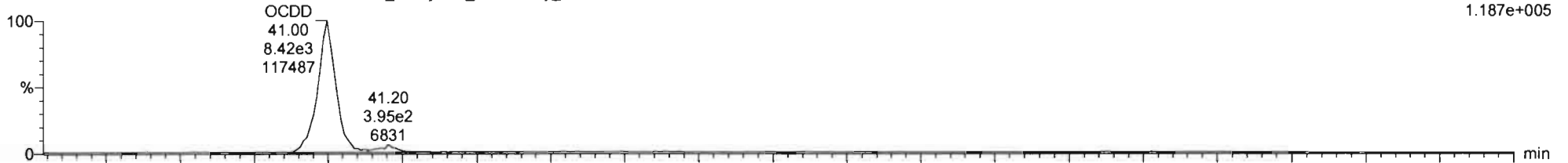
Printed: Tuesday, December 17, 2019 09:53:46 Pacific Standard Time

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Description: 1904021-03 PDI-142RAB-10-20-191112 10.64 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

OCDD

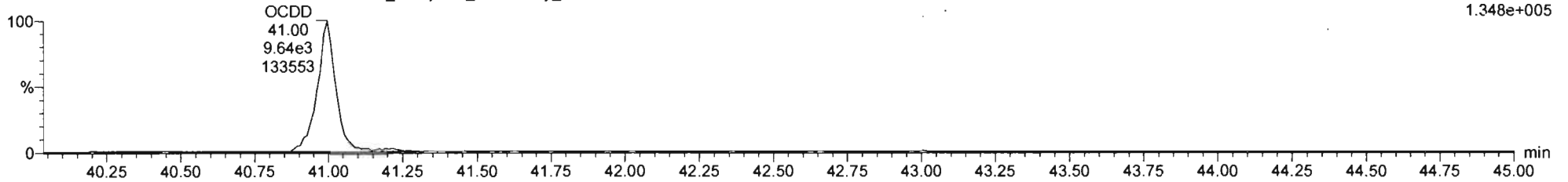
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F5:SIR of 11 channels, EI+
457.738
1.187e+005



191212D2_10
1904021-03 PDI-142RAB-10-20-191112 10.64 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19 1904021-03 PDI-142RAB-10-20-191112

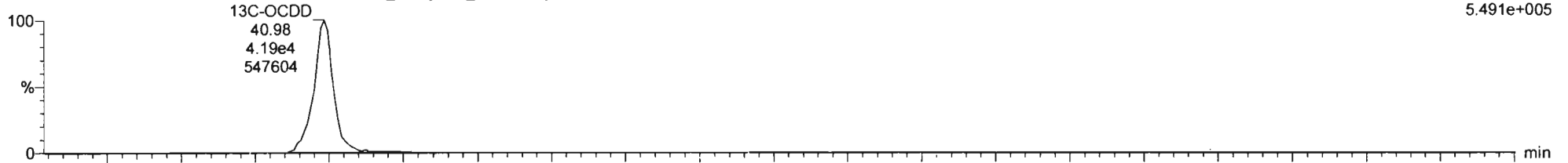
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13C-OCDD

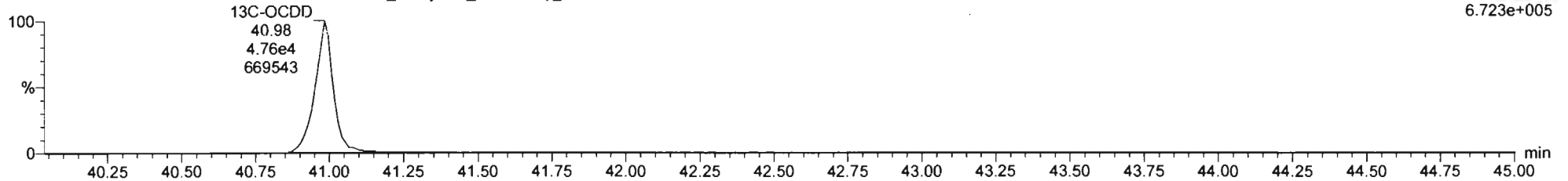
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F5:SIR of 11 channels, EI+
469.778
5.491e+005



191212D2_10
1904021-03 PDI-142RAB-10-20-191112 10.64 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19 1904021-03 PDI-142RAB-10-20-191112

F5:SIR of 11 channels, EI+
471.775
6.723e+005



Vista Analytical Laboratory

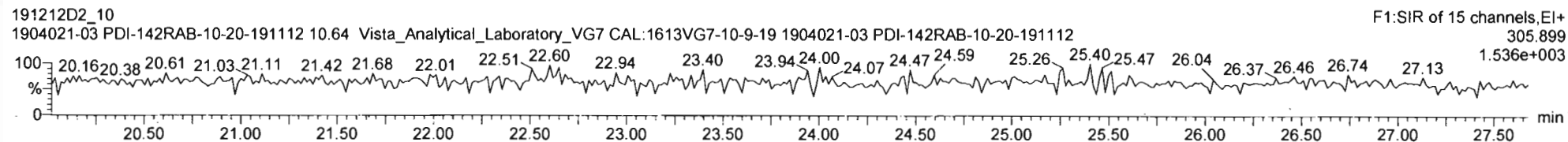
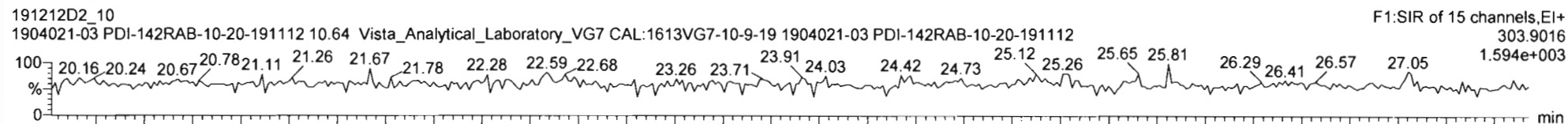
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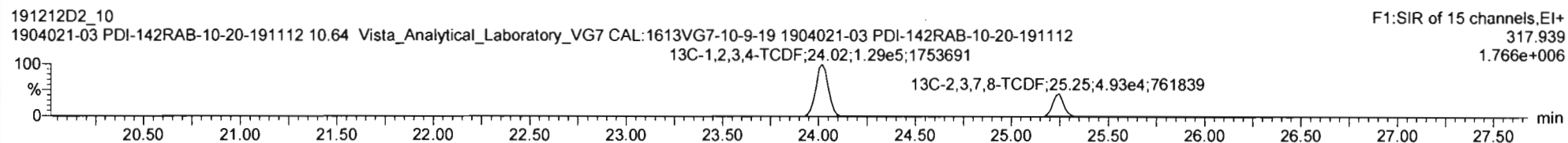
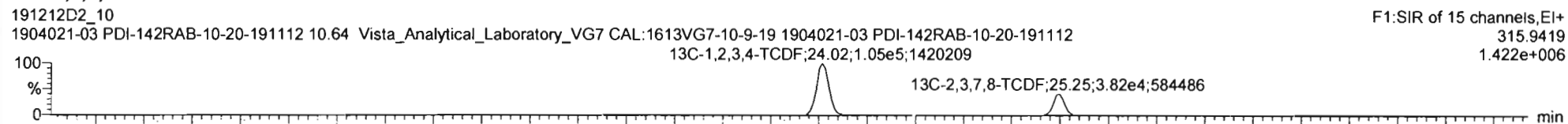
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Description: 1904021-03 PDI-142RAB-10-20-191112 10.64 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

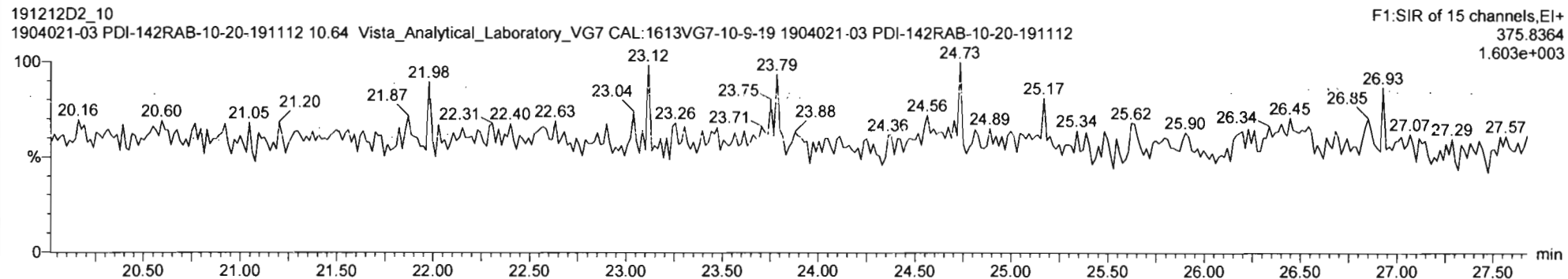
Total Tetra-Furans



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



DPE1



Vista Analytical Laboratory

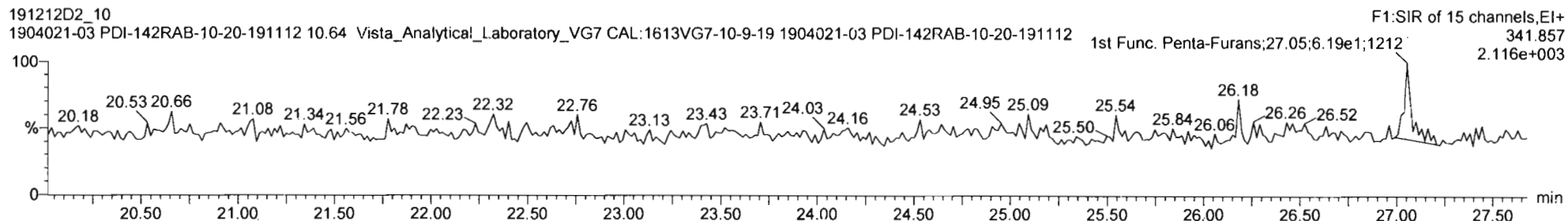
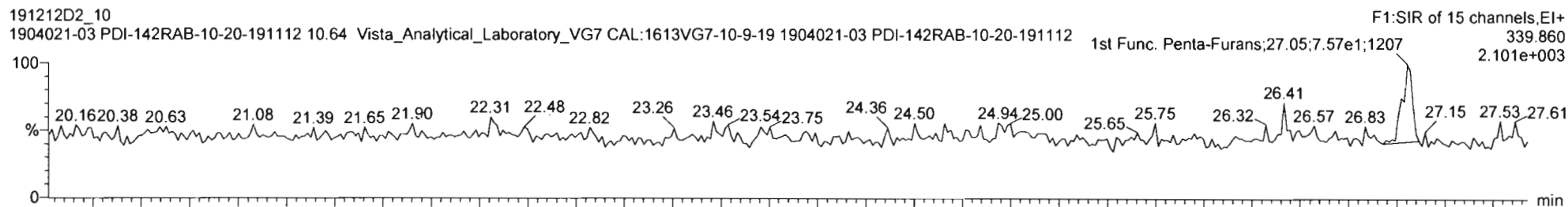
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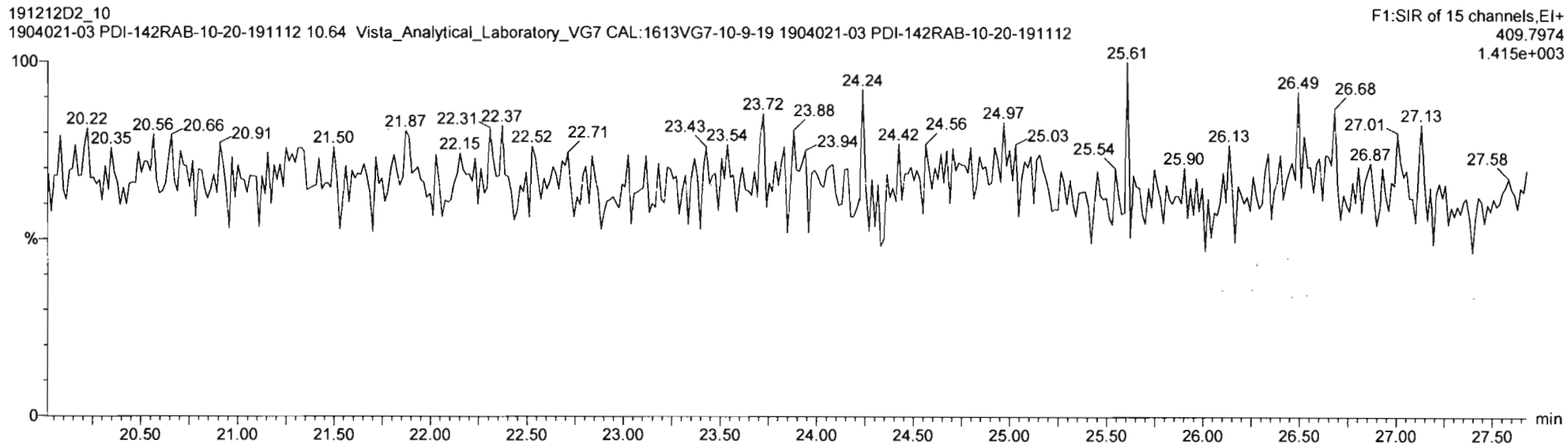
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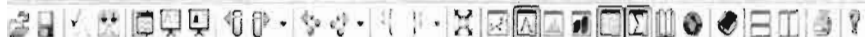
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1st Func. Penta-Furans



DPE6

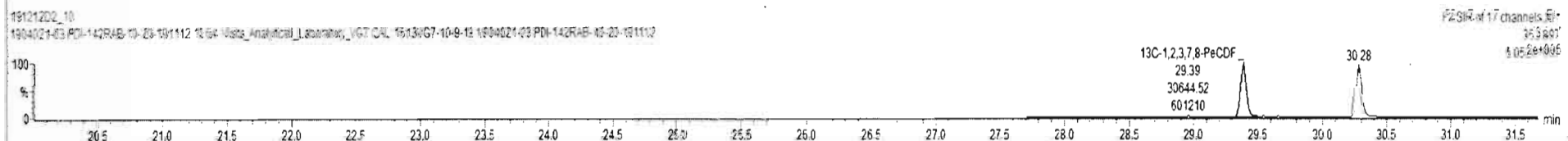
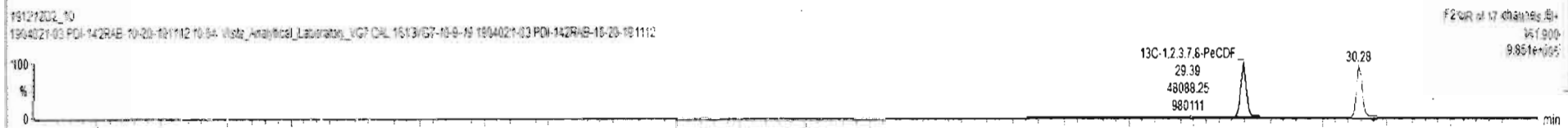
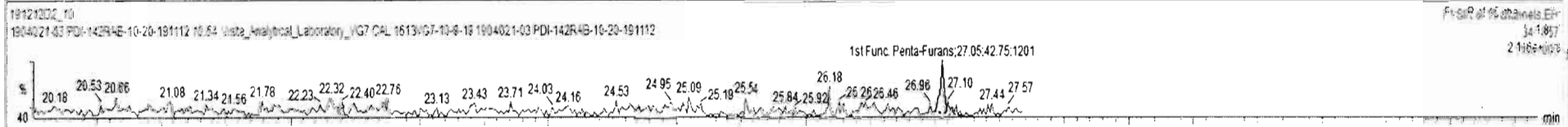
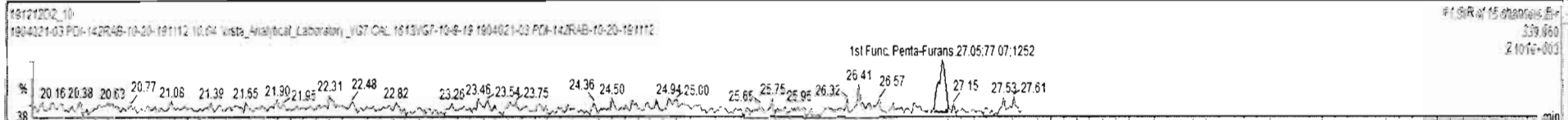




191212D2_10 - 1904021-03 PDI-142RAB-10-20-191112 - 1904021-03 PDI-142RAB-10-20-191112 10.64 Vista_Analytical_Laboratory_VG7 CAL 1613VG7-10-9-19

#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wt/vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC
33	13C-1,2,3,4,7,8,9-HpCDF	4.87e4	1.79e5	36	0.42	NO	0.581	10.022	38.18	38.27	1.146	1.143	NO	93.33	45.8	0.966	
34	13C-OCDF	1.15e5	1.79e5	36	0.93	NO	0.689	10.022	41.19	41.23	1.234	1.233	NO	165.3	46.4	0.454	
35	37Cl-2,3,7,8-TCDD	6.16e4	1.46e5	36			1.198	10.022	25.03	26.36	1.023	1.022	NO	70.53	68.4	0.188	
36	13C-1,2,3,4-TCDD	1.46e5	1.46e5	36	0.84	NO	1.000	10.022	25.50	25.47	1.000	1.000	NO	199.6	100	0.421	
37	13C-1,2,3,4-TCDF	2.34e5	2.34e5	37	0.82	NO	1.000	10.022	24.06	24.02	1.000	1.000	NO	199.6	100	0.431	
38	13C-1,2,3,4,6,9-HxCDF	1.79e5	1.79e5	38	0.51	NO	1.000	10.022	33.42	33.43	1.000	1.000	NO	199.6	100	0.539	
39	Total Tetra-Dioxins		6.10e4				0.931	10.022	25.50			0.000	NO			0.297	
40	Total Penta-Dioxins		5.10e4				0.872	10.022	30.00			0.000	NO			0.248	
41	Total Hexa-Dioxins		0.00e0				0.978	10.022	33.80			0.000	NO	0.0000		0.445	0.8900
42	Total Hepta-Dioxins		4.92e4				0.955	10.022	37.75			0.000	NO	21.42		0.692	21.42
43	Total Tetra-Furans		8.75e4				0.943	10.022	24.00			0.000	NO			0.132	
44	1st Func. Penta-Furans		0.00e0				0.940	10.022	27.63			0.000	NO	0.0000		0.6711	0.3016
45	Total Penta-Furans		0.00e0				0.940	10.022	30.00			0.000	NO			0.110	
46	Total Hexa-Furans		0.00e0				1.078	10.022	33.00			0.000	NO	0.8362		0.350	1.380
47	Total Hepta-Furans		0.00e0				1.135	10.022	37.75			0.000	NO	3.180		0.365	3.180

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc
1	44 1st Func. Penta-Furans	27.63	27.05	7.707e1	4.275e1	1.550	1.80	YES	0.30097	0.00000



Vista Analytical Laboratory

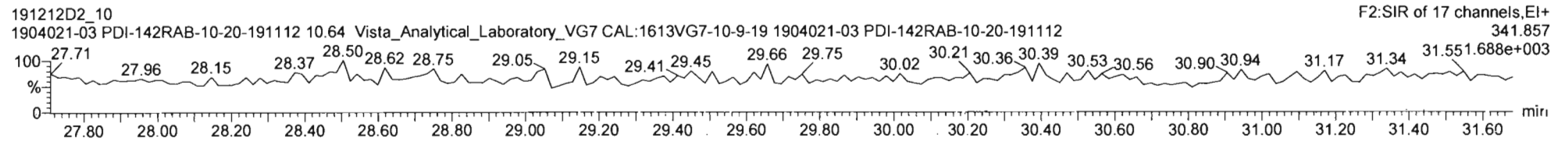
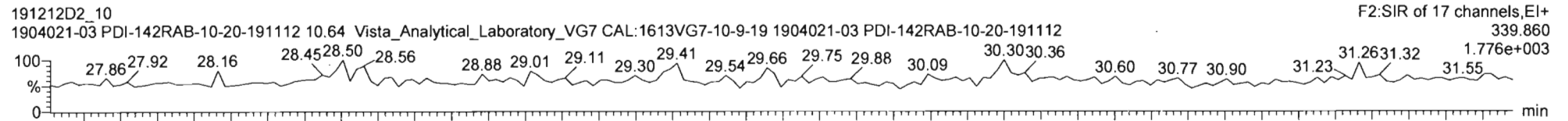
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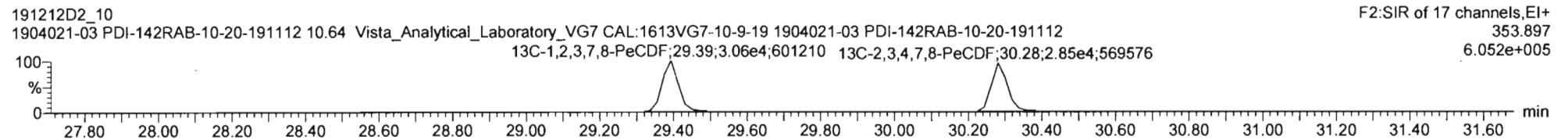
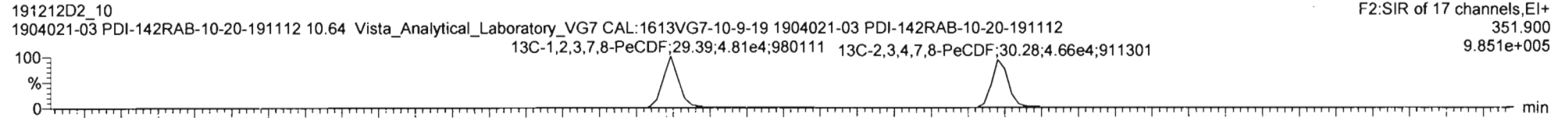
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Name: 191212D2_10, Date: 13-DEC-2019, Time: 08:07:11, ID: 1904021-03 PDI-142RAB-10-20-191112, Description: 1904021-03 PDI-142RAB-10-20-191112 10.64 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

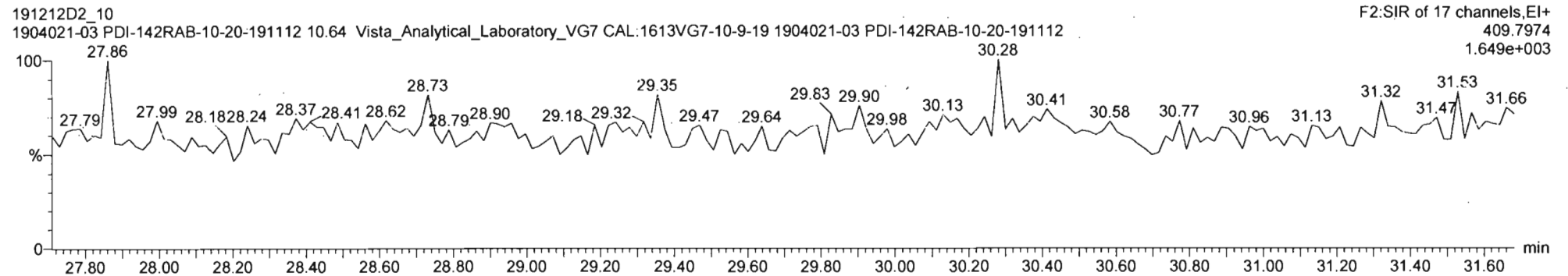
Total Penta-Furans



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



DPE2



Vista Analytical Laboratory

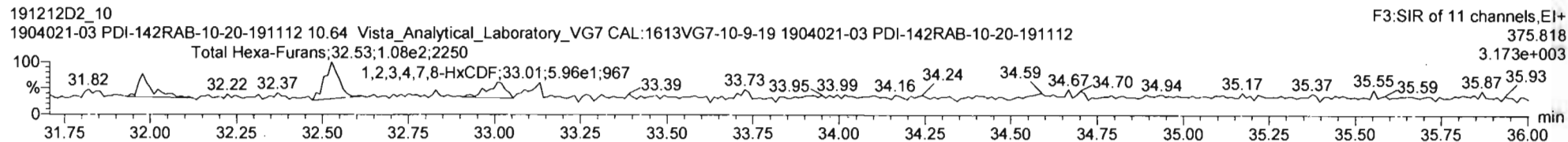
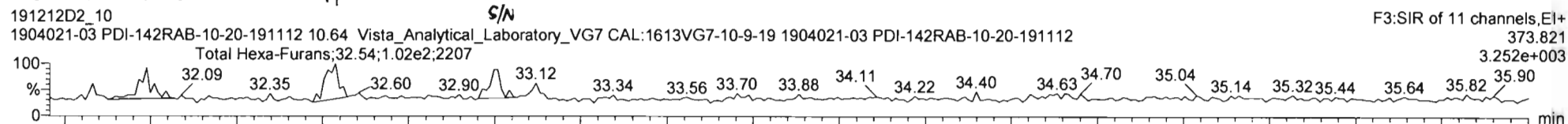
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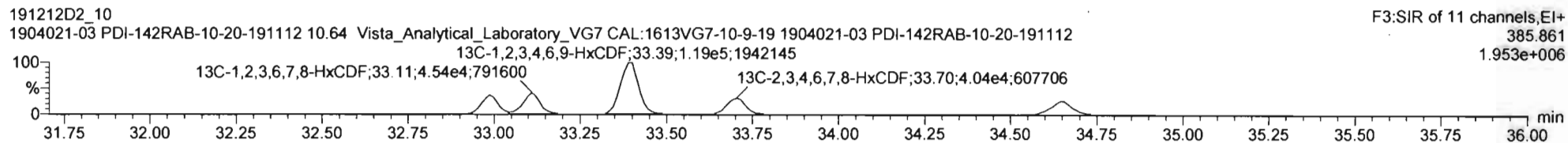
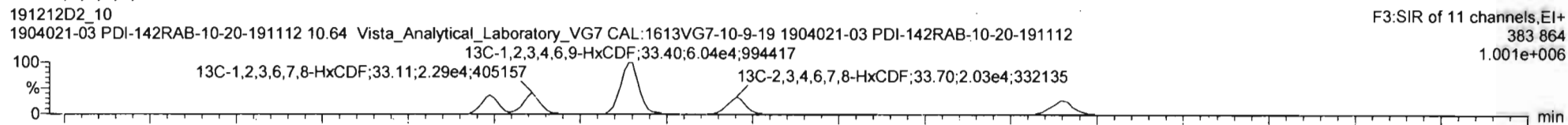
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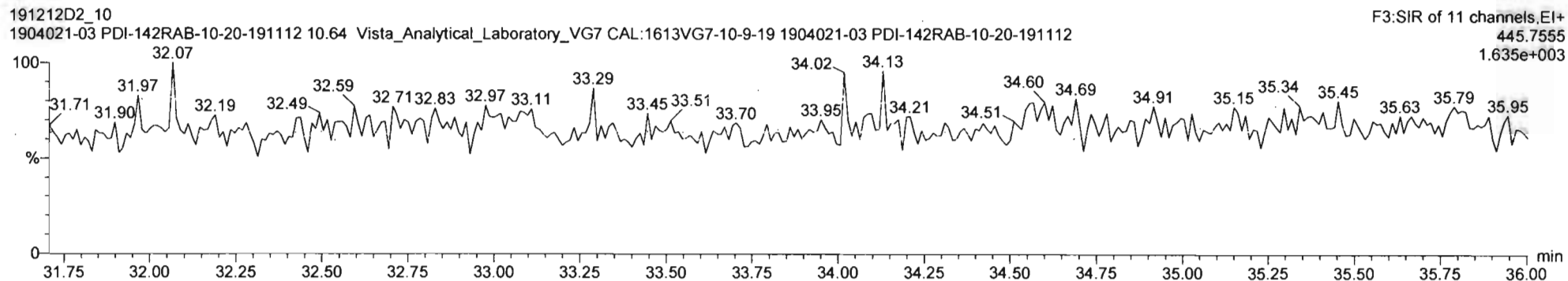
Total Hexa-Furans



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



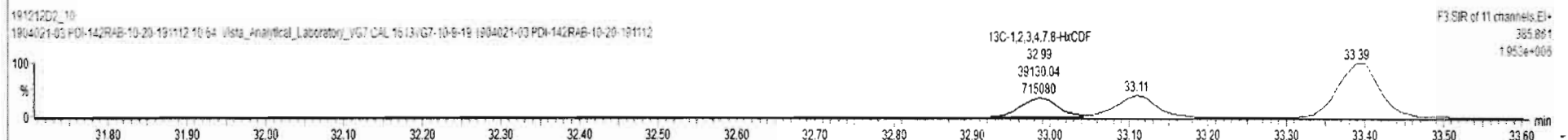
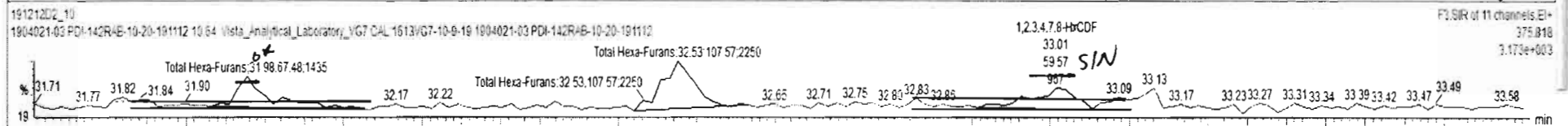
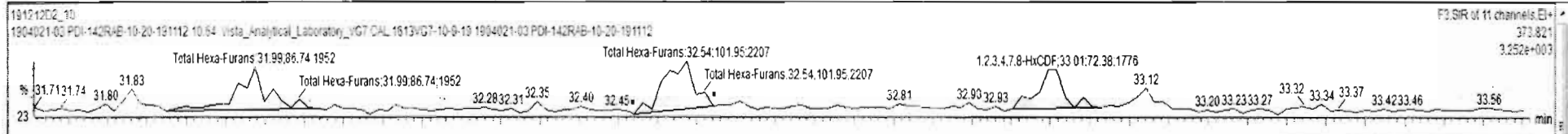
DPE3



191212D2_10 - 1904021-03 PDI-142RAB-10-20-191112 - 1904021-03 PDI-142RAB-10-20-191112 10.64 Vista_Analytical_Laboratory_VG7 CAL 1613VG7-10-9-19

#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wtvol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	EMPC
33	33 13C-1,2,3,4,7,8,9-HxCDF	4.87e4	1.79e5	38	0.42	NO	0.581	10.022	38.18	38.27	1.148	1.143	NO	93.23	48.8	0.998	
34	34 13C-OCDF	1.15e5	1.79e5	38	0.93	NO	0.689	10.022	41.19	41.29	1.234	1.233	NO	185.3	46.4	0.454	
35	35 37Cl-2,3,7,8-TCDD	6.16e4	1.46e5	36			1.196	10.022	26.03	26.06	1.023	1.022	NO	70.53	88.4	0.198	
36	36 13C-1,2,3,4-TCDD	1.46e5	1.46e5	36	0.84	NO	1.000	10.022	25.50	25.47	1.000	1.000	NO	199.6	198	0.421	
37	37 13C-1,2,3,4-TCDF	2.34e5	2.34e5	37	0.62	NO	1.000	10.022	24.06	24.02	1.000	1.000	NO	199.6	198	0.431	
38	38 13C-1,2,3,4,6,9-HxCDF	1.79e5	1.79e5	38	0.51	NO	1.000	10.022	33.42	33.49	1.000	1.000	NO	198.6	198	0.539	
39	39 Total Tetra-Dioxins		6.10e4				0.901	10.022	25.50			0.000	NO			0.237	
40	40 Total Penta-Dioxins		5.10e4				0.872	10.022	30.00			0.000	NO			0.248	
41	41 Total Hexa-Dioxins		0.00e0				0.976	10.022	33.80			0.000	NO	0.0000		0.445	0.8900
42	42 Total Hepta-Dioxins		4.92e4				0.989	10.022	37.75			0.000	NO	21.43		0.652	21.43
43	43 Total Tetra-Furans		8.75e4				0.943	10.022	24.00			0.000	NO			0.132	
44	44 1st Func. Penta-Furans		0.00e0				0.940	10.022	27.63			0.000	NO	6.0960		0.0711	0.3010
45	45 Total Penta-Furans		0.00e0				0.940	10.022	30.00			0.000	NO			0.110	
46	46 Total Hexa-Furans		0.00e0				1.678	10.022	33.00			0.000	NO	0.8382		0.360	1.390
47	47 Total Hepta-Furans		0.00e0				1.135	10.022	37.75			0.000	NO	3.180		0.365	3.180

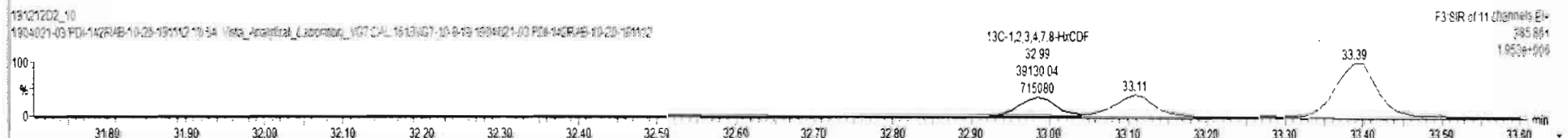
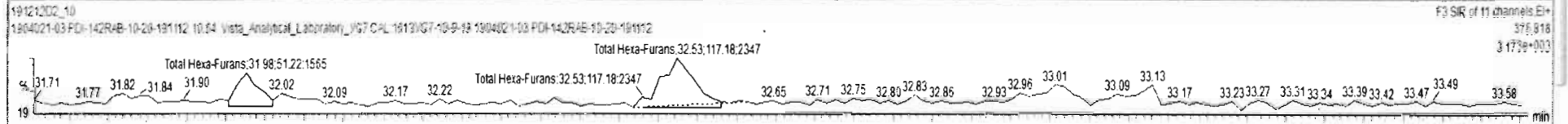
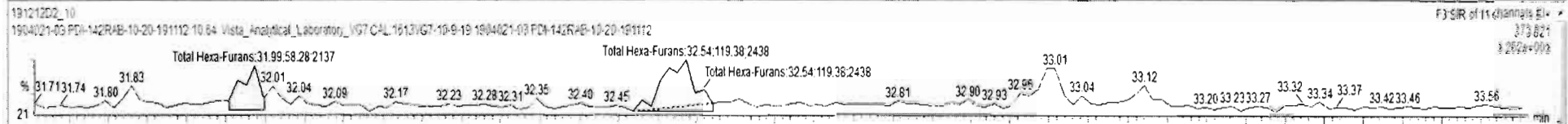
#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	46 Total Hexa-Furans	33.00	31.99	6.67e1	6.74e1	1.240	1.29	NO	0.46174	0.46174
2	46 Total Hexa-Furans	33.00	32.54	1.019e2	1.076e2	1.240	0.95	YES	0.55138	0.00000
3	11 1,2,3,4,7,8-HxCDF	32.99	32.01	7.238e1	5.957e1	1.240	1.22	NO	0.37644	0.37644



191212D2_10 - 1904021-03 PDI-142RAB-10-20-191112 - 1904021-03 PDI-142RAB-10-20-191112 10 64 Vista_Analytical_Laboratory_VG7 CAL-1613VG7-10-9-19

#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wtVol	Pred RT	RT	RRT	Pred.RRT	Check RRT	Conc.	%Rec	DL	EMPC
33	13C-1,2,3,4,7,8,9-HxCDF	4.87e4	1.75e5	38	0.42	NO	0.581	10.022	38.18	38.27	1.145	1.143	NO	93.33	45.8	0.966	
34	13C-OCDF	1.15e5	1.75e5	38	0.93	NO	0.689	10.022	41.19	41.20	1.234	1.233	NO	185.3	46.4	0.454	
35	37Cl-2,3,7,8-TCDD	6.16e4	1.46e5	36			1.196	10.022	26.03	26.08	1.023	1.022	NO	70.53	88.4	0.188	
36	13C-1,2,3,4-TCDD	1.46e5	1.46e5	36	0.84	NO	1.000	10.022	25.50	25.47	1.000	1.000	NO	199.6	100	0.421	
37	13C-1,2,3,4-TCDF	2.34e5	2.34e5	37	0.82	NO	1.000	10.022	24.06	24.02	1.000	1.000	NO	199.6	100	0.431	
38	13C-1,2,3,4,6,9-HxCDF	1.75e5	1.75e5	38	0.51	NO	1.000	10.022	33.42	33.40	1.000	1.000	NO	199.6	100	0.539	
39	Total Tetra-Dioxins	6.10e4					0.901	10.022	25.50			0.000	NO			0.237	
40	Total Penta-Dioxins	5.10e4					0.872	10.022	30.00			0.000	NO			0.248	
41	Total Hexa-Dioxins	0.00e0					0.976	10.022	33.60			0.000	NO	0.0000		0.445	0.8900
42	Total Hepta-Dioxins	4.92e4					0.989	10.022	37.75			0.000	NO	21.43		0.692	21.43
43	Total Tetra-Furans	8.75e4					0.943	10.022	24.00			0.000	NO			0.132	
44	1st Func. Penta-Furans	0.90e0					0.940	10.022	27.83			0.000	NO	0.0000		0.0711	0.3010
45	Total Penta-Furans	0.00e0					0.940	10.022	30.00			0.000	NO			0.110	
46	Total Hexa-Furans	0.00e0					1.078	10.022	33.00			0.000	NO	0.3278		0.360	0.9735
47	Total Hepta-Furans	0.00e0					1.135	10.022	37.75			0.000	NO	3.160		0.365	3.160

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	46 Total Hexa-Furans	33.00	31.99	5.828e1	5.122e1	1.240	1.14	NO	0.32783	0.32783
2	46 Total Hexa-Furans	33.00	32.54	1.154e2	1.172e2	1.240	1.92	YES	0.64567	0.00000



Vista Analytical Laboratory

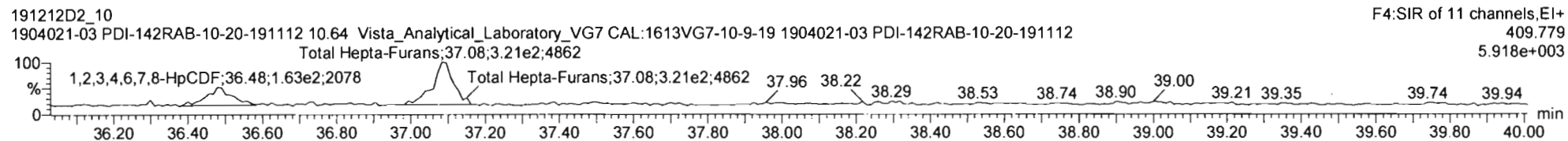
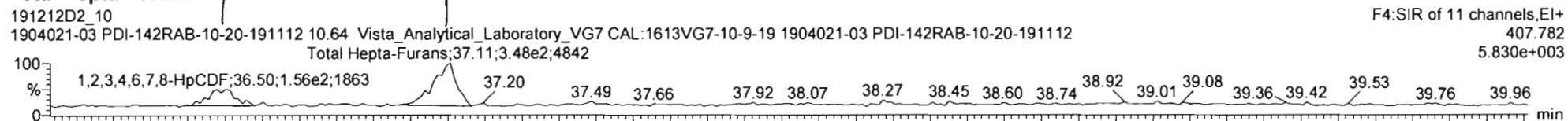
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Last Altered: Tuesday, December 17, 2019 09:53:12 Pacific Standard Time

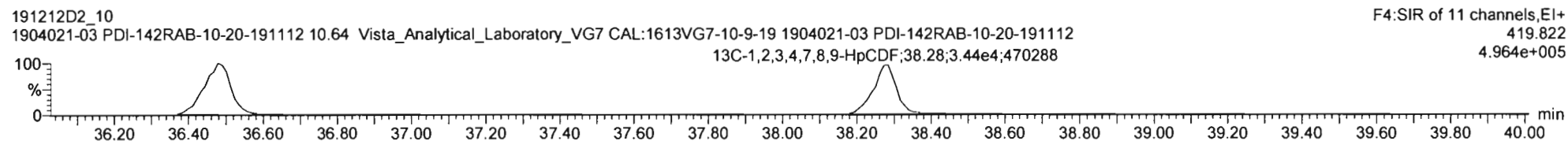
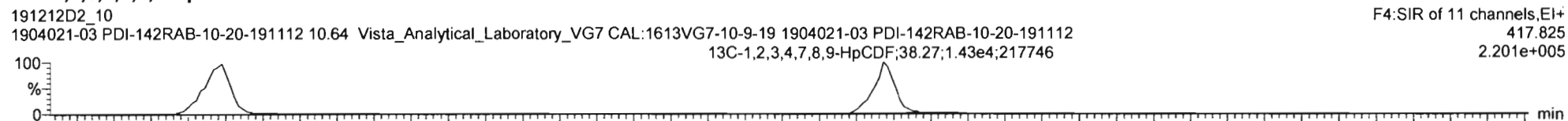
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Name: 191212D2_10, Date: 13-DEC-2019, Time: 08:07:11, ID: 1904021-03 PDI-142RAB-10-20-191112, Description: 1904021-03 PDI-142RAB-10-20-191112 10.64 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

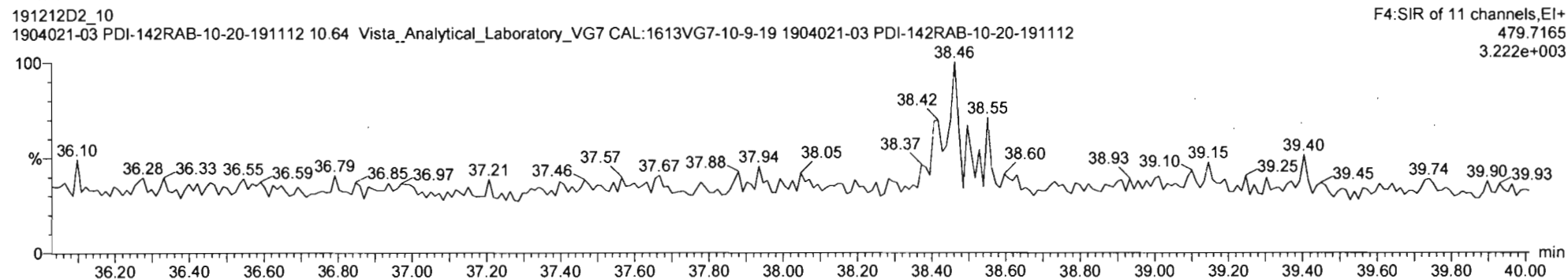
Total Hepta-Furans



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



DPE4



Vista Analytical Laboratory

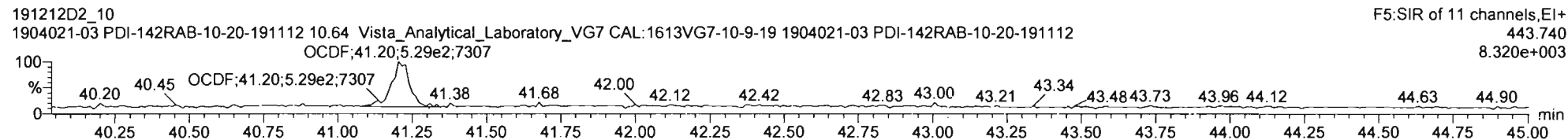
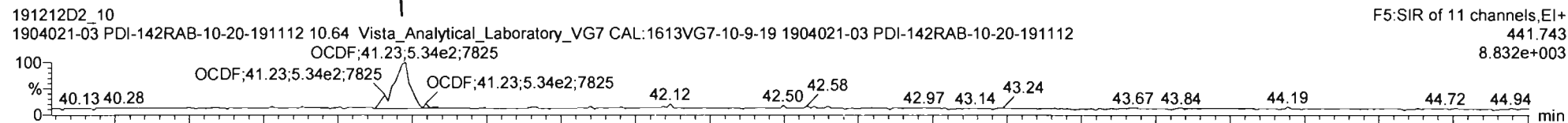
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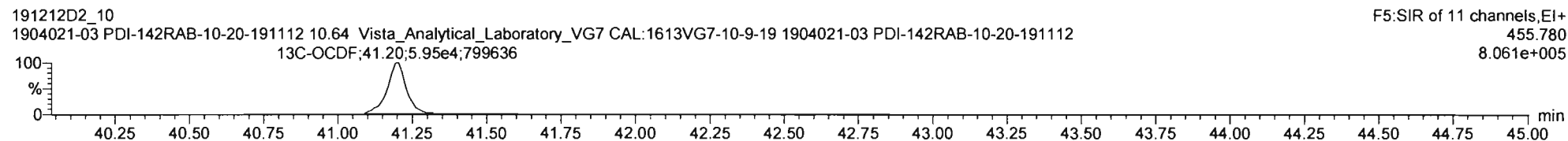
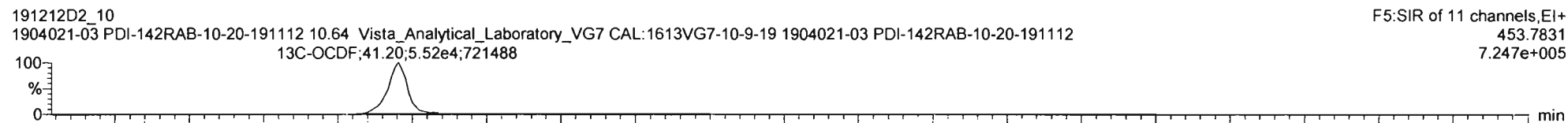
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Description: 1904021-03 PDI-142RAB-10-20-191112 10.64 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

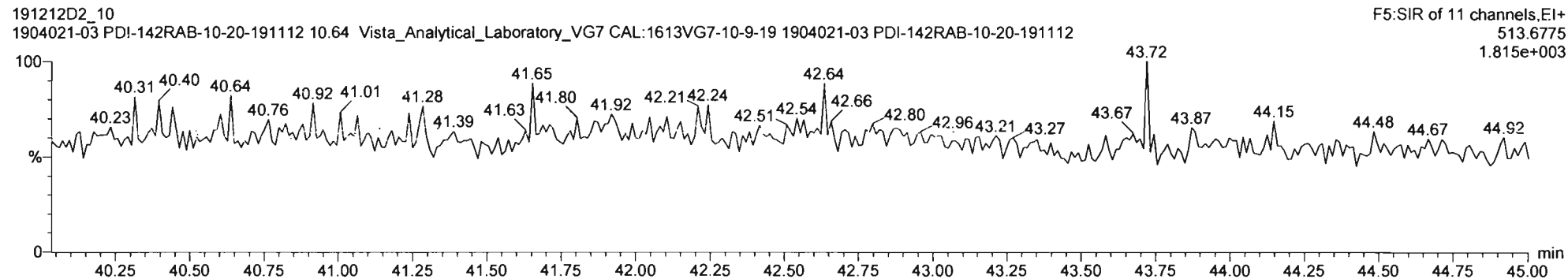
OCDF



13C-OCDF



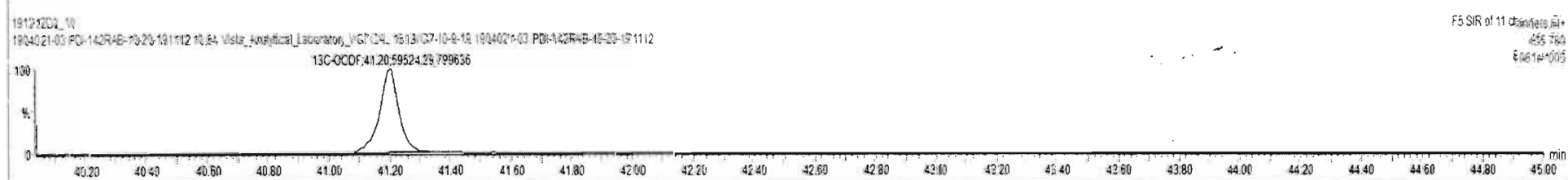
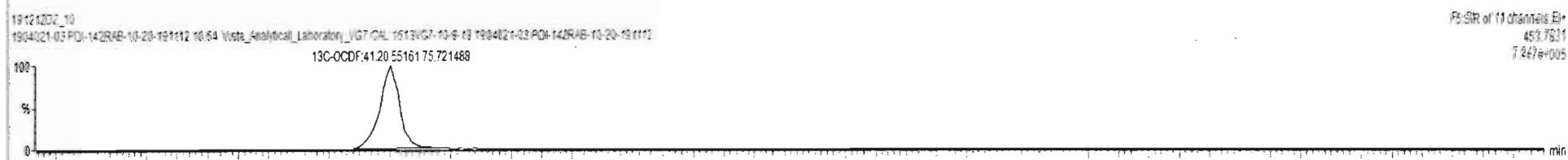
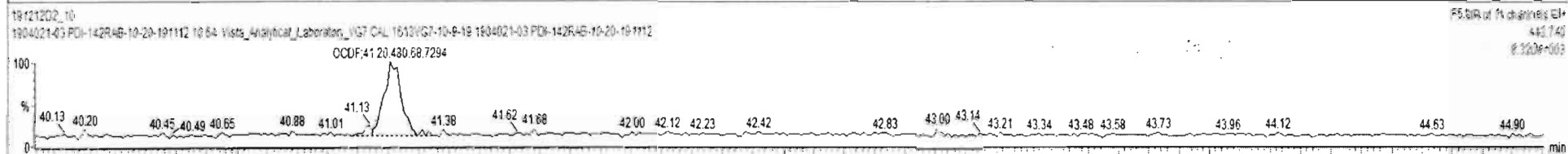
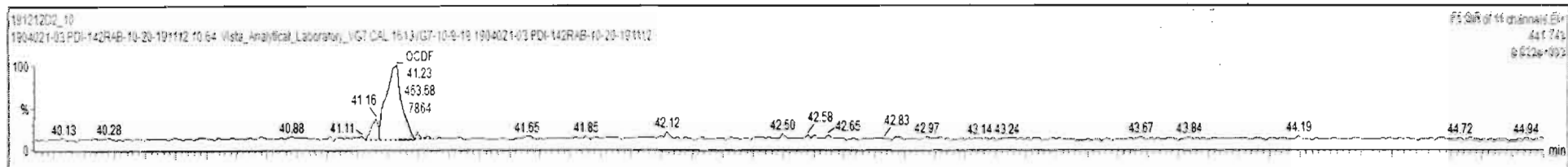
DPE5



191212D2_10 - 1904021-03 PDI-142RAB-10-20-191112 - 1904021-03 PDI-142RAB-10-20-191112 10.64 Vista_Analytical_Laboratory_VG7 CAL 1613VG7-10-9-19

#	Name	Resp	IS Resp	ES	RA	n/y	RRF	wt/vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DIL	EMPC
1	1,2,3,7,8-TCDD		6.10e4	16			0.905	10.022	26.06			1.001	NO				0.259
2	1,2,3,7,8-PeCDD		5.10e4	19			0.903	10.022	30.59			1.001	NO				0.508
3	1,2,3,4,7,8-HxCDD		4.45e4	20			1.101	10.022	33.88			1.000	NO				0.699
4	1,2,3,6,7,8-HxCDD		5.11e4	21			0.939	10.022	33.97			1.000	NO				0.743
5	1,2,3,7,8,9-HxCDD		5.21e4	22			0.961	10.022	34.31			1.001	NO				0.746
6	1,2,3,4,6,7,8-HpCDD	2.26e3	4.92e4	23	1.36	NO	0.979	10.022	37.76	37.76	1.000	1.000	NO	9.357			9.357
7	OCDD	1.81e4	6.95e4	24	0.87	NO	0.959	10.022	40.96	41.00	1.000	1.000	NO	83.99			83.99
8	1,2,3,7,8-TCDF		8.75e4	25			0.960	10.022	25.27			1.001	NO				0.391
9	1,2,3,7,8-PeCDF		7.67e4	26			0.960	10.022	29.41			1.001	NO				0.255

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



Vista Analytical Laboratory

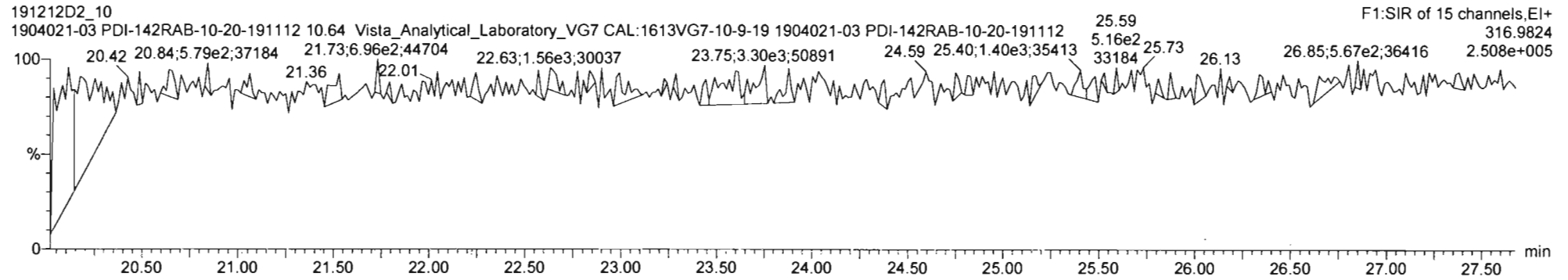
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Last Altered: Tuesday, December 17, 2019 09:53:12 Pacific Standard Time

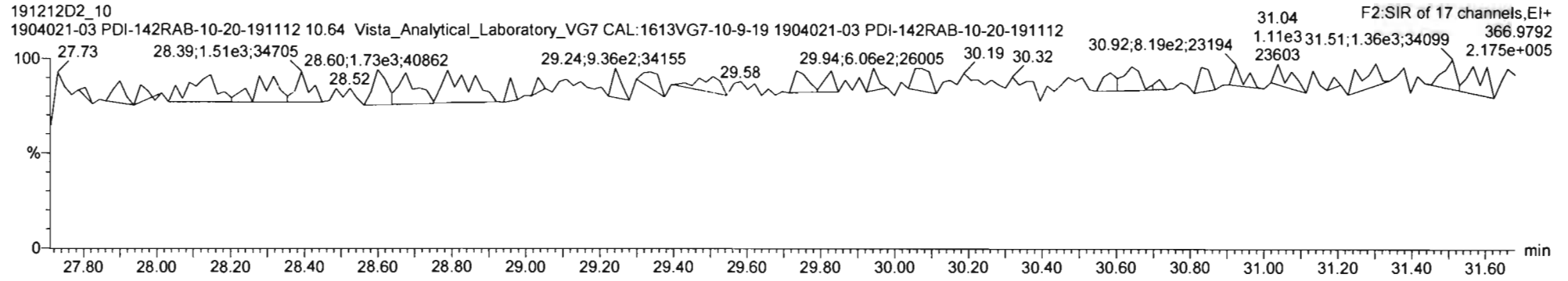
Printed: Tuesday, December 17, 2019 09:53:46 Pacific Standard Time

Name: 191212D2_10, Date: 13-DEC-2019, Time: 08:07:11, ID: 1904021-03 PDI-142RAB-10-20-191112, Description: 1904021-03 PDI-142RAB-10-20-191112 10.64 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

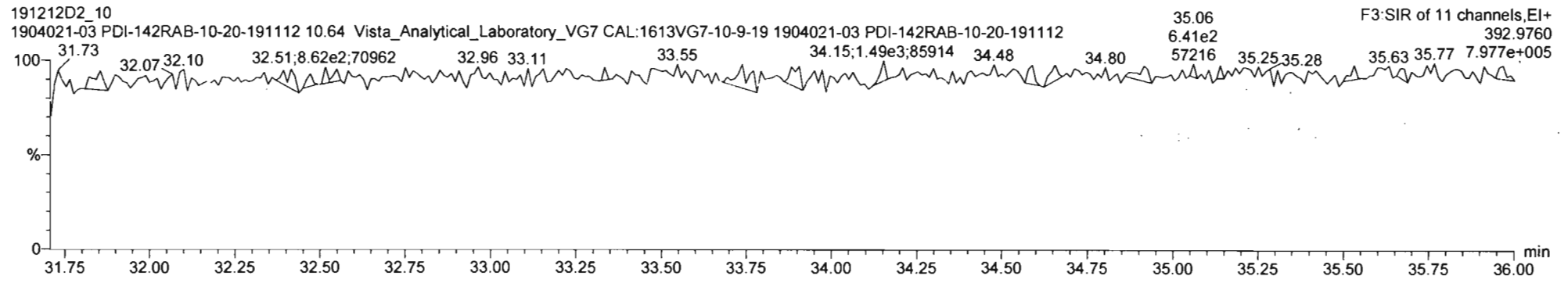
PFK1



PFK2



PFK3



Vista Analytical Laboratory

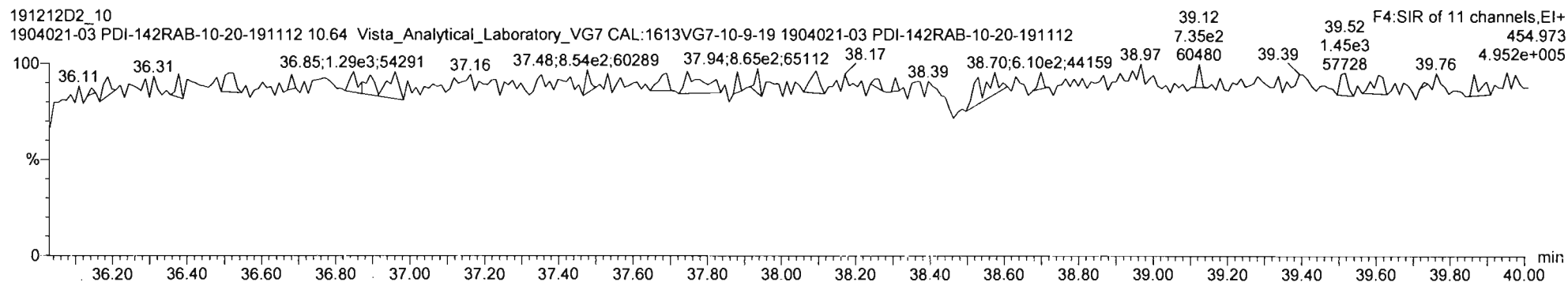
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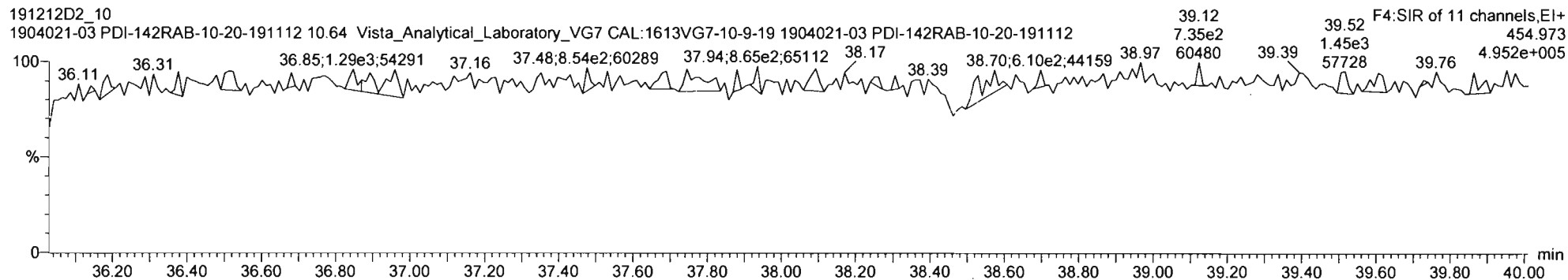
Printed: Tuesday, December 17, 2019 09:53:46 Pacific Standard Time

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Description: 1904021-03 PDI-142RAB-10-20-191112 10.64 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

PFK4



PFK5



Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191212D2\191212D2_11.qld

Last Altered: Tuesday, December 17, 2019 12:27:42 Pacific Standard Time

Printed: Tuesday, December 17, 2019 12:28:46 Pacific Standard Time

EL 12/17/19

CT 12/20/19

Method: U:\VG7.PRO\MethDB\1613VG7-12-4-19.mdb 10 Dec 2019 16:21:14

Calibration: 17 Dec 2019 10:06:23

Name: 191212D2_11, Date: 13-DEC-2019, Time: 08:55:01, ID: 1904021-04 PDI-142RAB-20-30.4-191112,

Description: 1904021-04 PDI-142RAB-20-30.4-191112 11.53 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

#	Name	Area	IS Area	Wt./Vol.	RRF	RA	Y/N	Pred...	RRT	Pred.RT	RT	Conc.	%Rec	EMPC	DL
1	1 2,3,7,8-TCDD		1.50e5	10.1514	0.905			1.001		26.08					0.194
2	2 1,2,3,7,8-PeCDD		1.28e5	10.1514	0.903			1.001		30.61					0.268
3	3 1,2,3,4,7,8-HxCDD		1.16e5	10.1514	1.101			1.000		33.90					0.425
4	4 1,2,3,6,7,8-HxCDD	8.62e2	1.31e5	10.1514	0.939	1.209	NO	1.000	1.001	33.99	34.01	1.3849		1.38	0.465
5	5 1,2,3,7,8,9-HxCDD		1.27e5	10.1514	0.961			1.001		34.33					0.501
6	6 1,2,3,4,6,7,8-HpCDD	4.58e4	1.23e5	10.1514	0.979	0.998	NO	1.000	1.001	37.76	37.77	74.892		74.9	0.671
7	7 OCDD	2.53e5	1.91e5	10.1514	0.959	0.877	NO	1.000	1.001	41.00	41.02	545.66		546	0.580
8	8 2,3,7,8-TCDF	4.97e2	2.15e5	10.1514	0.950	0.868	NO	1.001	1.001	25.28	25.28	0.48008	OK	0.480	0.214
9	9 1,2,3,7,8-PeCDF	7.49e2	1.99e5	10.1514	0.960	1.423	NO	1.001	1.001	29.42	29.42	0.77253		0.773	0.147
10	10 2,3,4,7,8-PeCDF	7.32e2	1.94e5	10.1514	1.015	1.833	YES	1.001	1.001	30.34	30.32	0.72156		0.658	0.132
11	11 1,2,3,4,7,8-HxCDF	1.34e3	1.53e5	10.1514	1.177	1.352	NO	1.000	1.000	33.00	33.01	1.4717		1.47	0.122
12	12 1,2,3,6,7,8-HxCDF	5.05e2	1.69e5	10.1514	1.069	1.613	YES	1.000	1.001	33.14	33.15	0.55118		0.473	0.124
13	13 2,3,4,6,7,8-HxCDF	4.17e2	1.51e5	10.1514	1.114	1.223	NO	1.001	1.000	33.75	33.72	0.48822		0.488	0.149
14	14 1,2,3,7,8,9-HxCDF		1.43e5	10.1514	1.062			1.000		34.66					0.185
15	15 1,2,3,4,6,7,8-HpCDF	3.42e3	1.27e5	10.1514	1.128	1.095	NO	1.001	1.000	36.53	36.49	4.7116		4.71	0.236
16	16 1,2,3,4,7,8,9-HpCDF	3.56e2	1.08e5	10.1514	1.280	1.187	NO	1.000	1.001	38.29	38.32	0.50511		0.505	0.217
17	17 OCDF	1.09e4	2.31e5	10.1514	0.947	0.885	NO	1.000	1.000	41.22	41.23	19.710		19.7	0.244
18	18 13C-2,3,7,8-TCDD	1.50e5	1.46e5	10.1514	1.095	0.795	NO	1.021	1.022	26.02	26.05	185.33	94.1		0.499
19	19 13C-1,2,3,7,8-PeCDD	1.28e5	1.46e5	10.1514	0.881	0.641	NO	1.187	1.200	30.25	30.59	196.64	99.8		0.487
20	20 13C-1,2,3,4,7,8-Hx...	1.16e5	1.85e5	10.1514	0.642	1.303	NO	1.014	1.014	33.87	33.89	192.52	97.7		0.755
21	21 13C-1,2,3,6,7,8-Hx...	1.31e5	1.85e5	10.1514	0.856	1.254	NO	1.017	1.017	33.99	33.99	162.59	82.5		0.567
22	22 13C-1,2,3,7,8,9-Hx...	1.27e5	1.85e5	10.1514	0.807	1.245	NO	1.026	1.027	34.28	34.29	167.25	84.9		0.601
23	23 13C-1,2,3,4,6,7,8-H...	1.23e5	1.85e5	10.1514	0.654	1.065	NO	1.126	1.130	37.62	37.75	200.37	101.7		0.957
24	24 13C-OCDD	1.91e5	1.85e5	10.1514	0.580	0.877	NO	1.226	1.227	40.96	41.00	350.72	89.0		0.547
25	25 13C-2,3,7,8-TCDF	2.15e5	2.39e5	10.1514	1.035	0.789	NO	0.992	0.991	25.28	25.25	171.29	86.9		0.449
26	26 13C-1,2,3,7,8-PeCDF	1.99e5	2.39e5	10.1514	0.854	1.616	NO	1.154	1.153	29.40	29.40	192.32	97.6		0.630
27	27 13C-2,3,4,7,8-PeCDF	1.94e5	2.39e5	10.1514	0.847	1.644	NO	1.189	1.189	30.30	30.31	189.21	96.0		0.635
28	28 13C-1,2,3,4,7,8-Hx...	1.53e5	1.85e5	10.1514	0.832	0.507	NO	0.987	0.988	32.98	33.00	195.31	99.1		0.856
29	29 13C-1,2,3,6,7,8-Hx...	1.69e5	1.85e5	10.1514	1.034	0.512	NO	0.991	0.992	33.10	33.13	173.70	88.2		0.688
30	30 13C-2,3,4,6,7,8-Hx...	1.51e5	1.85e5	10.1514	0.953	0.512	NO	1.009	1.009	33.71	33.72	168.64	85.6		0.747
31	31 13C-1,2,3,7,8,9-Hx...	1.43e5	1.85e5	10.1514	0.828	0.513	NO	1.039	1.038	34.70	34.66	183.41	93.1		0.860

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191212D2\191212D2_11.qld

Last Altered: Tuesday, December 17, 2019 12:27:42 Pacific Standard Time

Printed: Tuesday, December 17, 2019 12:28:46 Pacific Standard Time

Name: 191212D2_11, Date: 13-DEC-2019, Time: 08:55:01, ID: 1904021-04 PDI-142RAB-20-30.4-191112,
 Description: 1904021-04 PDI-142RAB-20-30.4-191112 11.53 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

#	Name	Area	IS Area	Wt./Vol.	RRF	RA	Y/N	Pred...	RRT	Pred.RT	RT	Conc.	%Rec	EMPC	DL
32	32 13C-1,2,3,4,6,7,8-H...	1.27e5	1.85e5	10.1514	0.757	0.442	NO	1.093	1.092	36.51	36.49	178.48	90.6		0.950
33	33 13C-1,2,3,4,7,8,9-H...	1.08e5	1.85e5	10.1514	0.581	0.451	NO	1.143	1.146	38.19	38.29	198.81	100.9		1.24
34	34 13C-OCDF	2.31e5	1.85e5	10.1514	0.689	0.878	NO	1.233	1.234	41.20	41.22	356.59	90.5		0.681
35	35 37Cl-2,3,7,8-TCDD	6.16e4	1.46e5	10.1514	1.198			1.022	1.023	26.05	26.08	69.386	88.0		0.120
36	36 13C-1,2,3,4-TCDD	1.46e5	1.46e5	10.1514	1.000	0.790	NO	1.000	1.000	25.50	25.49	197.02	100.0		0.546
37	37 13C-1,2,3,4-TCDF	2.39e5	2.39e5	10.1514	1.000	0.799	NO	1.000	1.000	24.06	24.04	197.02	100.0		0.465
38	38 13C-1,2,3,4,6,9-Hx...	1.85e5	1.85e5	10.1514	1.000	0.505	NO	1.000	1.000	33.42	33.41	197.02	100.0		0.712
39	39 Total Tetra-Dioxins		1.50e5	10.1514	0.901			0.000		25.50					0.119
40	40 Total Penta-Dioxins		1.28e5	10.1514	0.872			0.000		30.00		0.90291		1.46	0.277
41	41 Total Hexa-Dioxins		0.00e0	10.1514	0.976			0.000		33.80		16.490		16.5	0.473
42	42 Total Hepta-Dioxins		1.23e5	10.1514	0.989			0.000		37.75		177.01		177	0.665
43	43 Total Tetra-Furans		2.15e5	10.1514	0.943			0.000		24.00		0.82894		1.01	0.215
44	44 1st Func. Penta-Fur...		0.00e0	10.1514	0.940			0.000		27.63		2.9226		2.92	0.0669
45	45 Total Penta-Furans		0.00e0	10.1514	0.940			0.000		30.00		1.2514		3.50	0.147
46	46 Total Hexa-Furans		0.00e0	10.1514	1.078			0.000		33.00		8.6313		9.10	0.150
47	47 Total Hepta-Furans		0.00e0	10.1514	1.135			0.000		37.75		19.688		19.7	0.239

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191212D2\191212D2_11.qld

Last Altered: Tuesday, December 17, 2019 12:27:42 Pacific Standard Time

Printed: Tuesday, December 17, 2019 12:28:46 Pacific Standard Time

Method: U:\VG7.PRO\MethDB\1613VG7-12-4-19.mdb 10 Dec 2019 16:21:14

Calibration: 17 Dec 2019 10:06:23

Name: 191212D2_11, Date: 13-DEC-2019, Time: 08:55:01, ID: 1904021-04 PDI-142RAB-20-30.4-191112,

Description: 1904021-04 PDI-142RAB-20-30.4-191112 11.53 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

Tetra-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1									

Penta-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	40 Total Penta-Dioxins	NO	29.02	73.885	50164.668	3.240	MM	0.3660	0.37
2	40 Total Penta-Dioxins	NO	28.57	113.203	50164.668	0.000	MM	0.0000	0.56
3	40 Total Penta-Dioxins	NO	29.87	119.184	50164.668	4.754	MM	0.5370	0.54

Hexa-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	41 Total Hexa-Dioxins	NO	32.37	2614.147	69530.985	77.010	MM	7.7735	7.77
2	4 1,2,3,6,7,8-HxCDD	NO	34.01	471.538	72666.633	13.195	MM	1.3849	1.38
3	41 Total Hexa-Dioxins	NO	33.19	2524.438	69530.985	72.637	dd	7.3321	7.33

Hepta-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	NO	37.77	22876.158	63453.590	744.596	bb	74.8918	74.89
2	42 Total Hepta-Dioxins	NO	36.90	31590.396	63453.590	1024.904	bb	102.1156	102.12

Tetra-Furans

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	8 2,3,7,8-TCDF	NO	25.28	230.986	94698.906	4.630	MM	0.4801	0.48
2	43 Total Tetra-Furans	NO	24.46	158.014	94698.906	3.339	MM	0.3489	0.35
3	43 Total Tetra-Furans	YES	25.61	99.689	94698.906	0.000	MM	0.0000	0.18

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191212D2\191212D2_11.qld

Last Altered: Tuesday, December 17, 2019 12:27:42 Pacific Standard Time

Printed: Tuesday, December 17, 2019 12:28:46 Pacific Standard Time

Name: 191212D2_11, Date: 13-DEC-2019, Time: 08:55:01, ID: 1904021-04 PDI-142RAB-20-30.4-191112,
 Description: 1904021-04 PDI-142RAB-20-30.4-191112 11.53 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

Penta-Furans function 1

	# Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	44 1st Func. Penta-Furans	NO	27.07	1751.500	121807.989	27.877	bb	2.9226	2.92

Penta-Furans

	# Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	10 2,3,4,7,8-PeCDF	YES	30.32	473.324	120708.414	0.000	MM	0.0000	0.66
2	45 Total Penta-Furans	YES	29.66	323.679	121807.989	0.000	bb	0.0000	0.41
3	9 1,2,3,7,8-PeCDF	NO	29.42	440.123	122907.563	7.532	MM	0.7725	0.77
4	45 Total Penta-Furans	YES	29.25	119.221	121807.989	0.000	MM	0.0000	0.14
5	45 Total Penta-Furans	NO	29.04	286.218	121807.989	4.568	MM	0.4789	0.48
6	45 Total Penta-Furans	YES	28.51	697.211	121807.989	0.000	MM	0.0000	0.69
7	45 Total Penta-Furans	YES	28.36	240.281	121807.989	0.000	bd	0.0000	0.20
8	45 Total Penta-Furans	YES	28.47	84.125	121807.989	0.000	MM	0.0000	0.15

Hexa-Furans

	# Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	13 2,3,4,6,7,8-HxCDF	NO	33.72	229.150	51122.621	5.519	MM	0.4882	0.49
2	12 1,2,3,6,7,8-HxCDF	YES	33.15	311.425	57106.883	0.000	db	0.0000	0.47
3	11 1,2,3,4,7,8-HxCDF	NO	33.01	770.635	51336.227	17.581	dd	1.4717	1.47
4	46 Total Hexa-Furans	NO	32.54	1491.646	51977.448	34.333	MM	3.1386	3.14
5	46 Total Hexa-Furans	NO	32.00	1359.846	51977.448	31.885	MM	2.9148	2.91
6	46 Total Hexa-Furans	NO	31.84	285.044	51977.448	6.761	bb	0.6181	0.62

Hepta-Furans

	# Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	15 1,2,3,4,6,7,8-HpCDF	NO	36.49	1789.330	38944.895	53.933	bb	4.7116	4.71
2	16 1,2,3,4,7,8,9-HpCDF	NO	38.32	193.211	33746.609	6.563	MM	0.5051	0.51
3	47 Total Hepta-Furans	NO	37.11	4806.487	36345.752	166.695	bb	14.4716	14.47

Vista Analytical Laboratory

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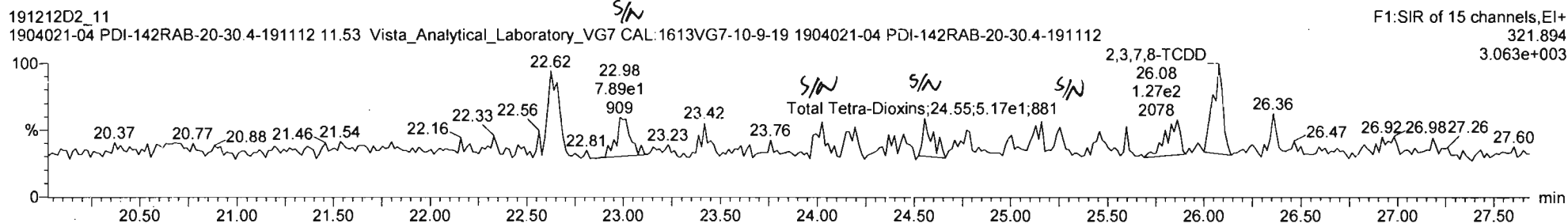
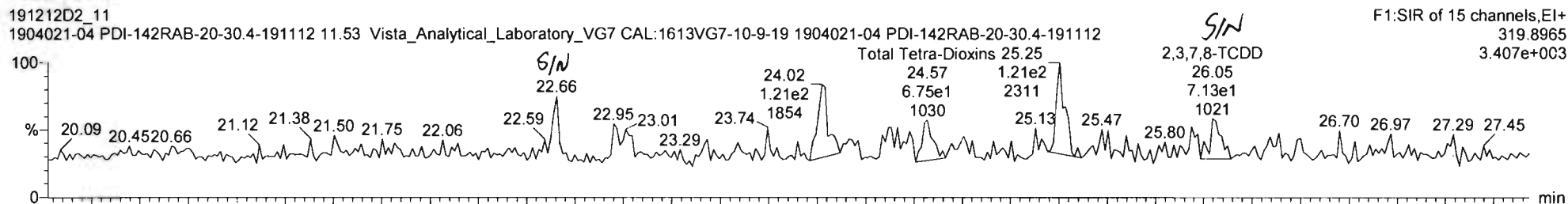
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Printed: Tuesday, December 17, 2019 09:53:46 Pacific Standard Time

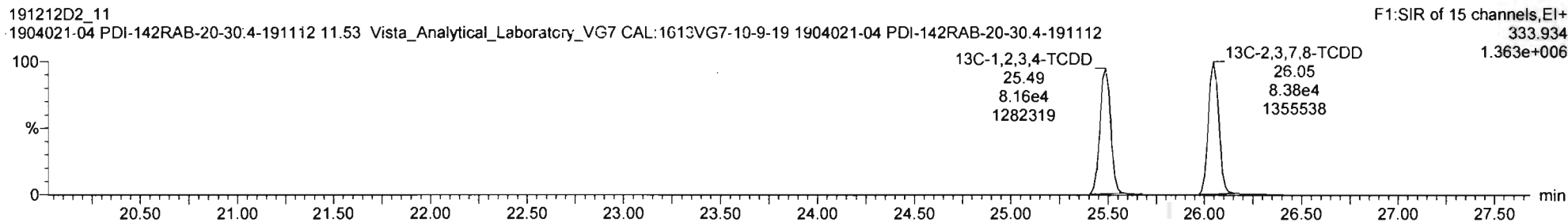
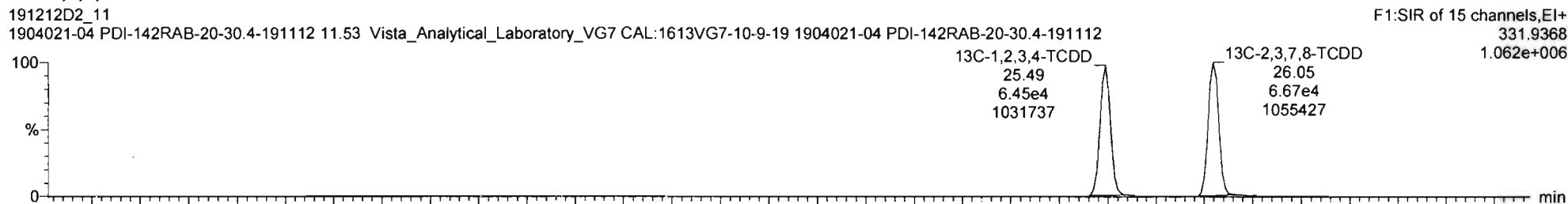
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Description: 1904021-04 PDI-142RAB-20-30.4-191112 11.53 Vista_Aanalytical_Laboratory_VG7 CAL:1613VG7-10-9-19

Total Tetra-Dioxins



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

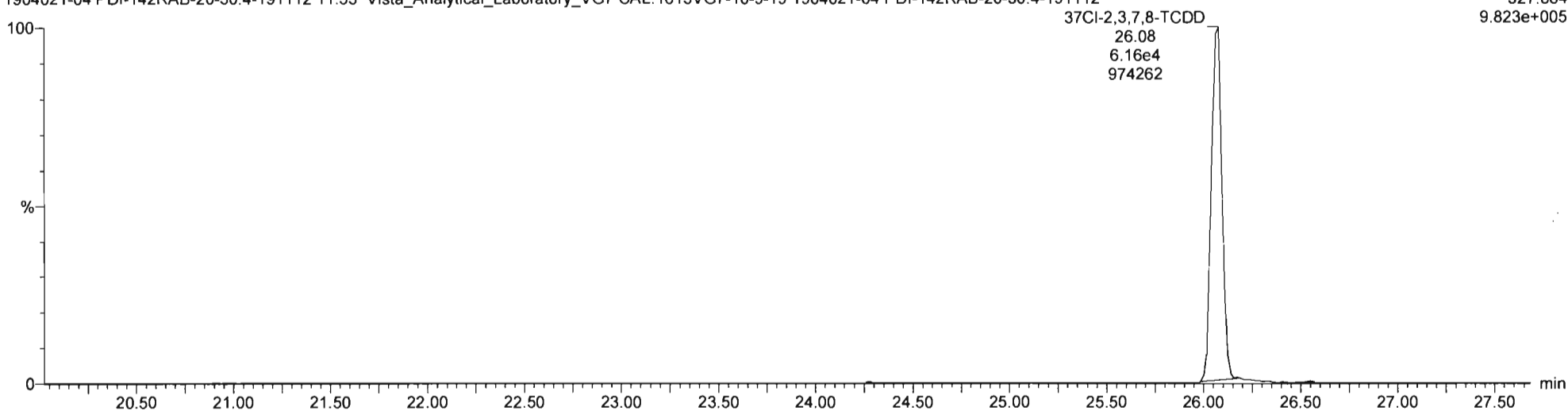


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Description: 1904021-04 PDI-142RAB-20-30.4-191112 11.53 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

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

191212D2_11
1904021-04 PDI-142RAB-20-30.4-191112 11.53 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19 1904021-04 PDI-142RAB-20-30.4-191112

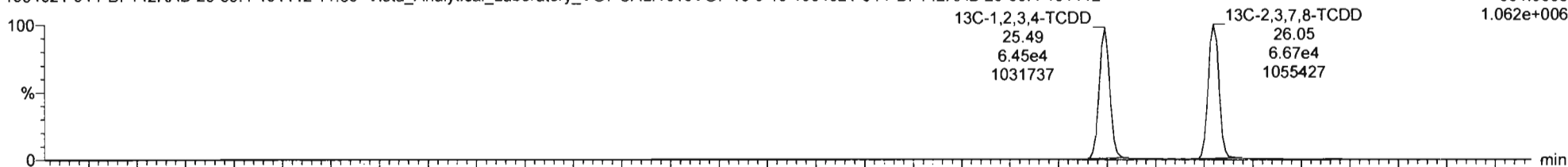
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327.884
9.823e+005



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

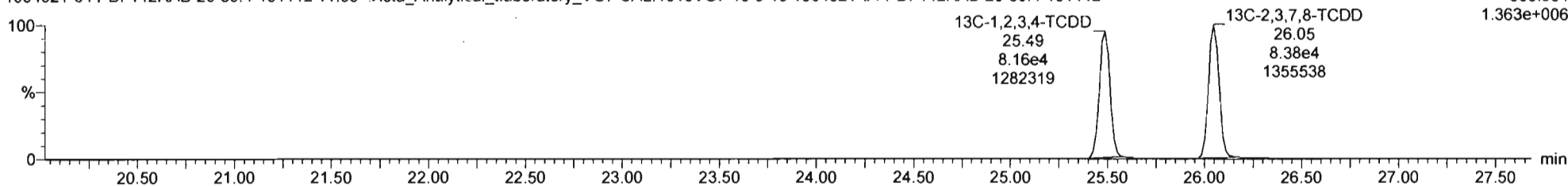
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F1:SIR of 15 channels,EI+
331.9368
1.062e+006



191212D2_11
1904021-04 PDI-142RAB-20-30.4-191112 11.53 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19 1904021-04 PDI-142RAB-20-30.4-191112

F1:SIR of 15 channels,EI+
333.934
1.363e+006



Vista Analytical Laboratory

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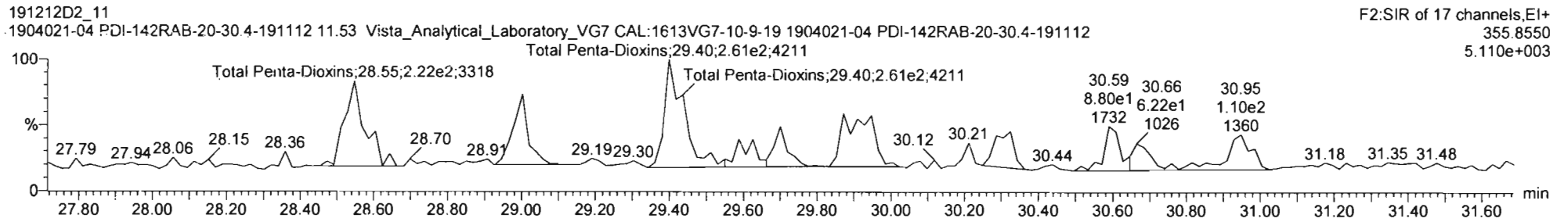
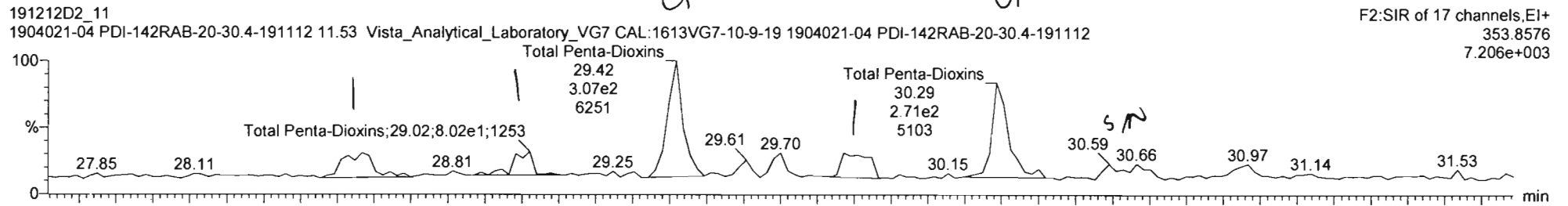
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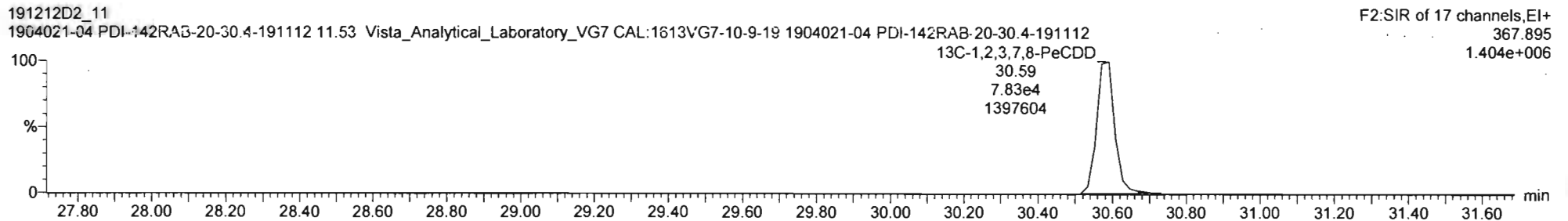
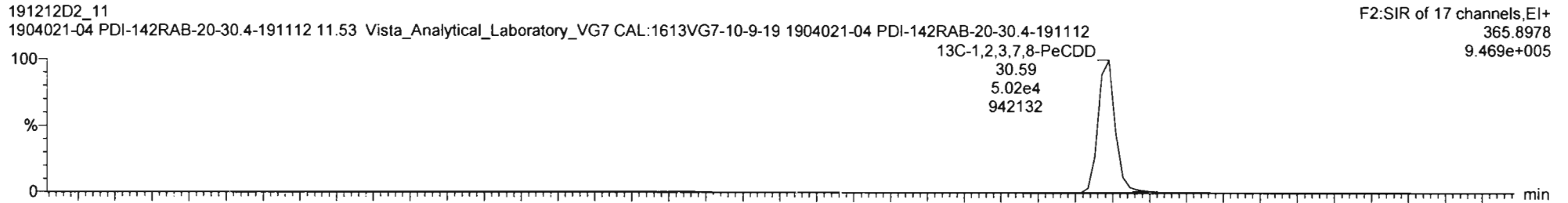
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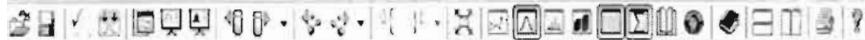
Description: 1904021-04 PDI-142RAB-20-30.4-191112 11.53 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

Total Penta-Dioxins



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

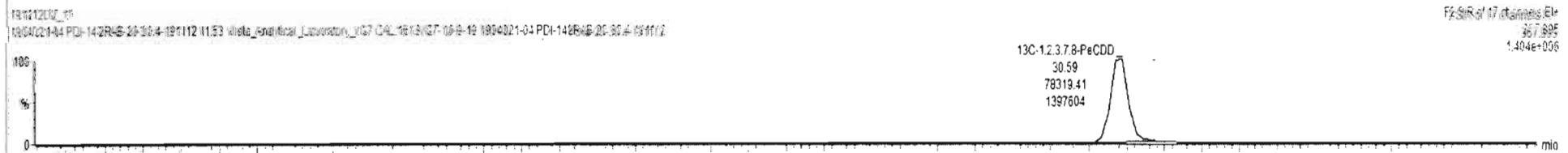
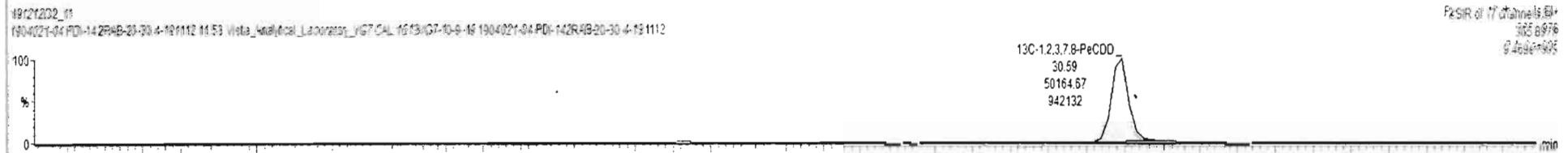
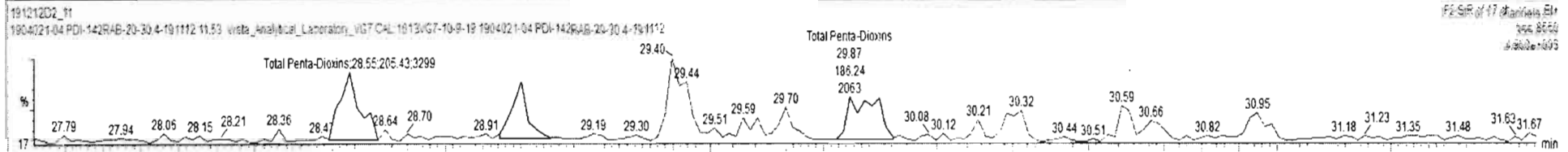
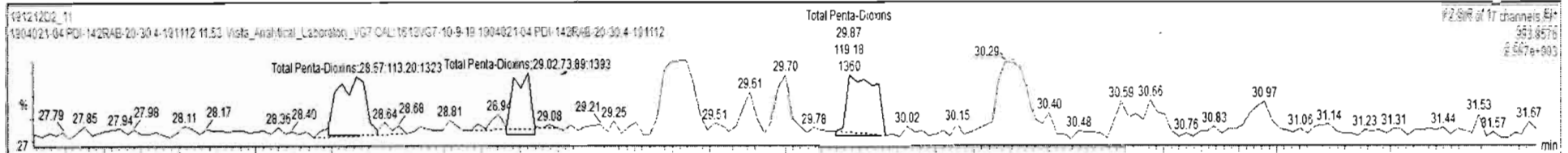




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#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wt/vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	EMPC
37	13C-1,2,3,4-TCDF	2.39e5	2.39e5	37	0.68	NO	1.000	10.151	24.06	24.04	1.000	1.000	NO	197.0	100	0.465	
38	13C-1,2,3,4,6,8-HxCDF	1.85e5	1.85e5	38	0.50	NO	1.000	10.151	33.42	33.41	1.000	1.000	NO	197.0	100	0.712	
39	Total Tetra-Dioxins	1.50e5					0.901	10.151	25.50			0.000	NO			0.119	
40	Total Penta-Dioxins	1.26e5					0.872	10.151	30.00			0.000	NO	0.9029		0.277	1.463
41	Total Hexa-Dioxins	0.00e0					0.976	10.151	33.80			0.000	NO	16.43		0.473	18.79
42	Total Hepta-Dioxins	1.23e5					0.989	10.151	27.75			0.000	NO	177.0		0.665	177.0
43	Total Tetra-Furans	2.15e5					0.943	10.151	24.00			0.000	NO	0.7009		0.215	2.302
44	1st Func. Penta-Furans	0.00e0					0.940	10.151	27.83			0.000	NO	2.923		0.0669	2.923
45	Total Penta-Furans	0.00e0					0.940	10.151	30.00			0.000	NO	2.968		0.147	4.228

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	40 Total Penta-Dioxins	30.00	28.57	1.132e2	2.054e2	0.630	0.55	NO	0.56018	0.00000
2	40 Total Penta-Dioxins	30.00	29.02	7.389e1	1.343e2	0.630	0.55	NO	0.36595	0.36595
2	40 Total Penta-Dioxins	30.00	29.87	1.182e2	1.862e2	0.630	0.64	NO	0.53696	0.53696



Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Tuesday, December 17, 2019 09:53:12 Pacific Standard Time

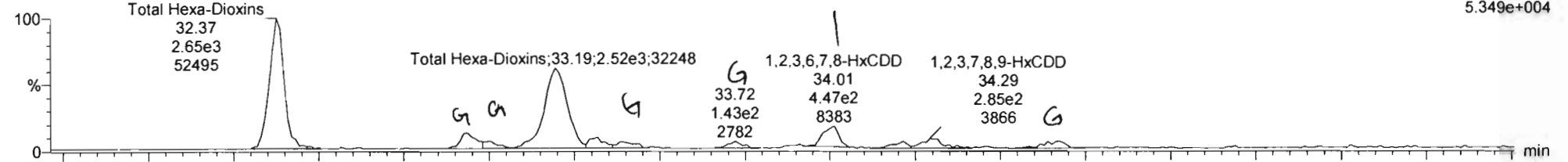
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Name: 191212D2_11, Date: 13-DEC-2019, Time: 08:55:01, ID: 1904021-04 PDI-142RAB-20-30.4-191112, Description: 1904021-04 PDI-142RAB-20-30.4-191112 11.53 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

Total Hexa-Dioxins

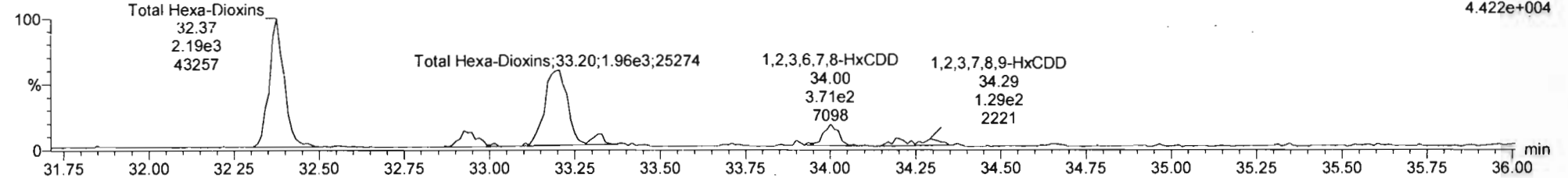
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F3:SIR of 11 channels, EI+ 389.816 5.349e+004



191212D2_11 1904021-04 PDI-142RAB-20-30.4-191112 11.53 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19 1904021-04 PDI-142RAB-20-30.4-191112

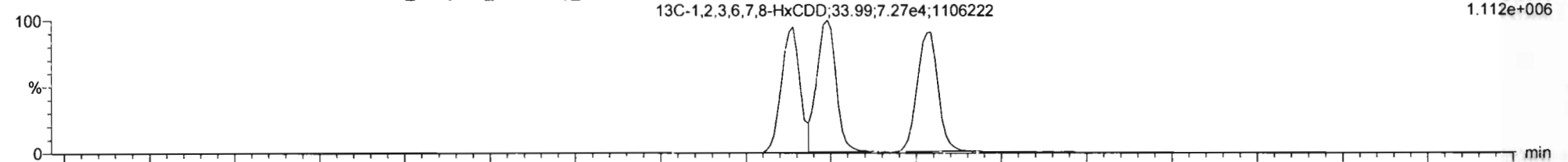
F3:SIR of 11 channels, EI+ 391.813 4.422e+004



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

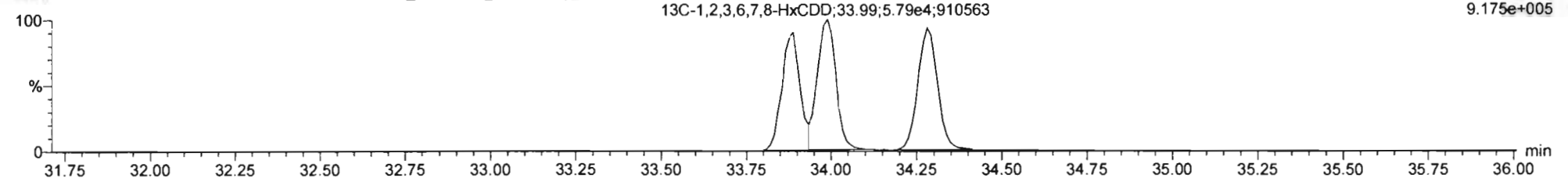
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F3:SIR of 11 channels, EI+ 401.856 1.112e+006



191212D2_11 1904021-04 PDI-142RAB-20-30.4-191112 11.53 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19 1904021-04 PDI-142RAB-20-30.4-191112

F3:SIR of 11 channels, EI+ 403.853 9.175e+005

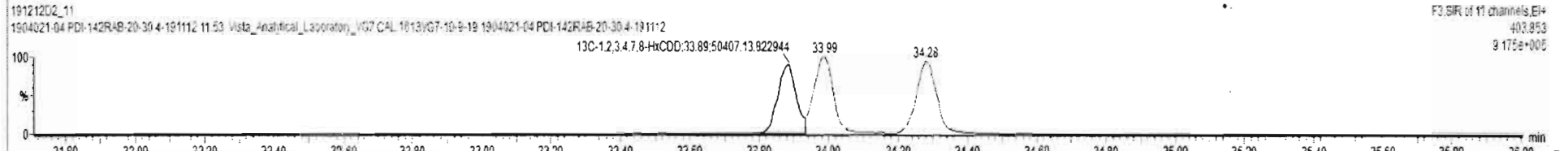
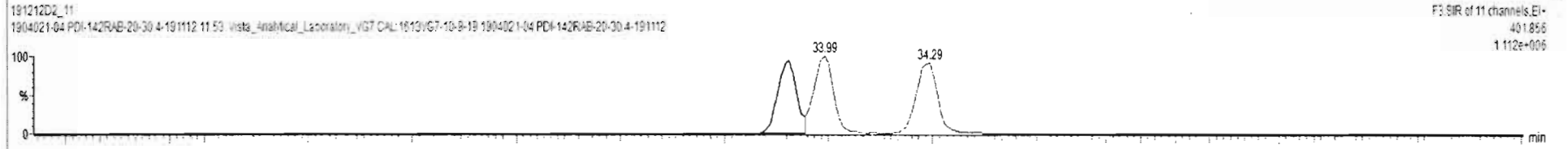
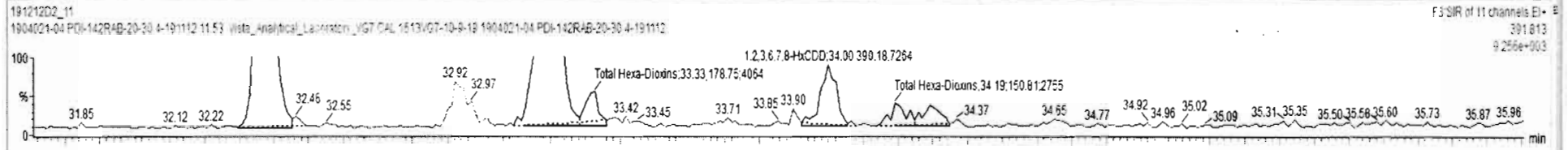
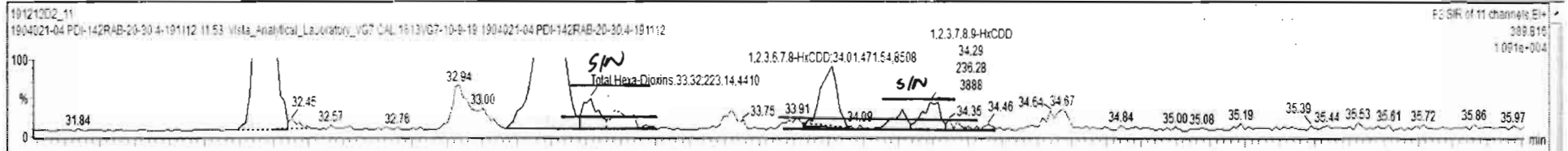




191212D2_11 - 1904021-04 PDI-142RAB-20-30 4-191112 - 1904021-04 PDI-142RAB-20-30 4-191112 11.53 Vista_Analytical_Laboratory_VG7 CAL 1613VG7-10-9-19

#	Name	Resp	IS Resp	IS#	RA	nly	RRF	w/vol	Pred RT	RT	RRT	Pred.RRT	Check RRT	Conc	%Rec	DL	EMPC
37	37 13C-1,2,3,4-TCDF	2.39e5	2.39e5	37	0.80	NO	1.000	10.151	24.06	24.04	1.000	1.000	NO	197.0	100	0.455	
38	38 13C-1,2,3,4,6,8-HxCDF	1.85e5	1.85e5	38	0.50	NO	1.000	10.151	33.42	33.41	1.000	1.000	NO	197.0	100	0.712	
39	39 Total Tetra-Dioxins	1.50e5					0.901	10.151	25.50			0.000	NO			0.119	
40	40 Total Penta-Dioxins	1.28e5					0.872	10.151	30.00			0.000	NO	0.9029		0.277	1.463
41	41 Total Hexa-Dioxins	0.05e0					0.976	10.151	33.80			0.000	NO	17.14		0.473	16.06
42	42 Total Hepta-Dioxins	1.23e5					0.589	10.151	37.75			0.000	NO	177.0		0.865	177.0
43	43 Total Tetra-Furans	2.15e5					0.943	10.151	24.00			0.000	NO	0.7005		0.215	2.302
44	44 1st Func. Penta-Furans	0.00e0					0.940	10.151	27.63			0.000	NO	2.523		0.0629	2.923
45	45 Total Penta-Furans	0.00e0					0.940	10.151	30.00			0.000	NO	2.568		0.147	4.228

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	nly	EMPC	Conc.
1	41 Total Hexa-Dioxins	33.80	32.37	2.614e3	2.178e3	1.240	1.20	NO	7.7735	7.7735
2	41 Total Hexa-Dioxins	33.60	33.19	2.524e3	1.995e3	1.240	1.27	NO	7.3321	7.3321
3	41 Total Hexa-Dioxins	33.80	33.32	2.231e2	1.787e2	1.240	1.25	NO	0.85192	0.85192
4	4 1,2,3,6,7,8-HxCDD	33.99	34.01	4.715e2	3.902e2	1.240	1.21	NO	1.3849	1.3849
5	41 Total Hexa-Dioxins	33.80	34.21	1.344e2	1.108e2	1.240	0.89	YES	0.36380	0.00000
6	5 1,2,3,7,8,9-HxCDD	34.33	34.29	2.363e2	1.458e2	1.240	1.62	YES	0.52634	0.00000

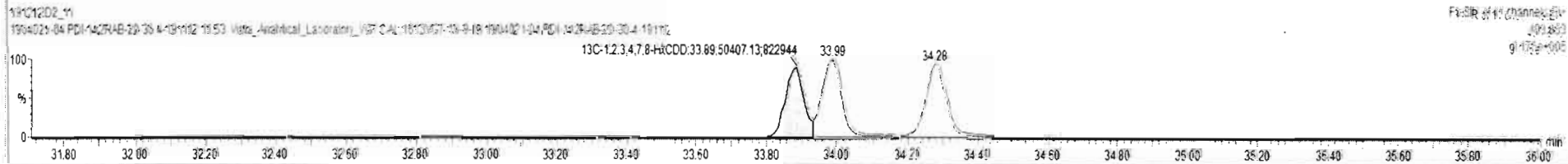
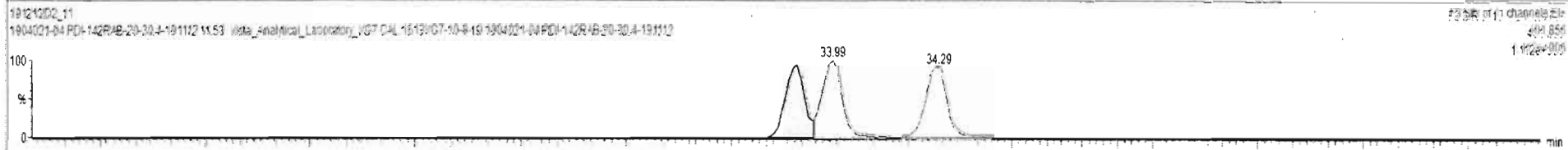
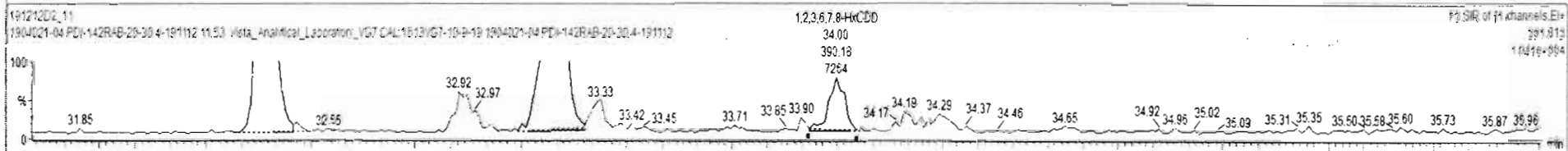
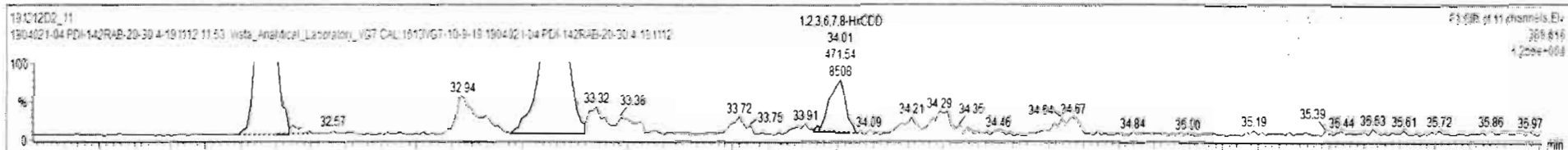




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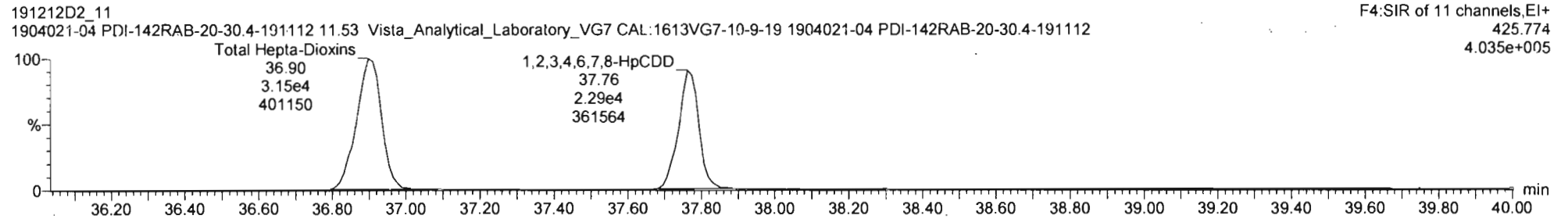
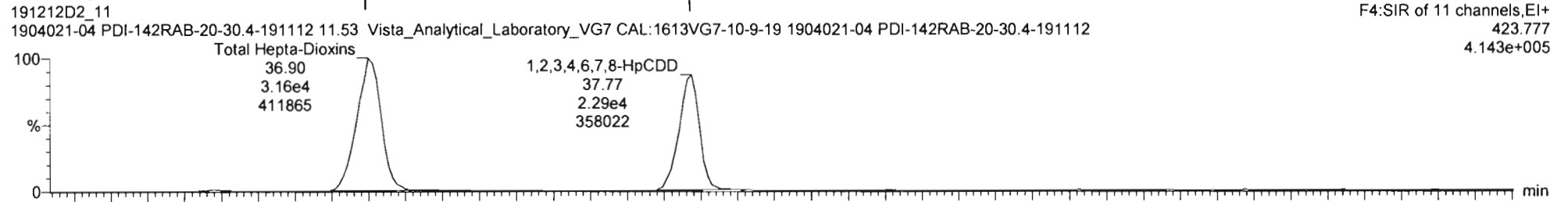
#	Name	Resp	IS Resp	IS#	RA	nly	RRF	wt/vol	Pred RT	RT	RRT	Pred.RRT	Check RRT	Conc	%Rec	DL	EMPC
37	13C-1,2,3,4-TCDF	2.39e5	2.39e5	37	0.80	NO	1.000	10.151	24.06	24.04	1.000	1.000	NO	197.0	100	0.495	
38	13C-1,2,3,4,6,8-HxCDF	1.85e5	1.85e5	38	0.50	NO	1.000	10.151	33.42	33.41	1.000	1.000	NO	197.0	100	0.712	
39	Total Tetra-Dioxins	1.50e5					0.901	10.151	25.50			0.000	NO			0.119	
40	Total Penta-Dioxins	1.26e5					0.872	10.151	30.00			0.000	NO	0.9029		0.277	1.463
41	Total Hexa-Dioxins	0.90e0					0.976	10.151	33.80			0.000	NO	16.49		0.473	16.49
42	Total Hepta-Dioxins	1.23e5					0.989	10.151	37.75			0.000	NO	177.0		0.665	177.0
43	Total Tetra-Furans	2.15e5					0.843	10.151	24.00			0.000	NO	0.7009		0.215	2.302
44	1st Func. Penta-Furans	0.90e0					0.940	10.151	27.83			0.000	NO	2.923		0.0669	2.923
45	Total Penta-Furans	0.90e0					0.940	10.151	30.00			0.000	NO	2.588		0.147	4.228

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	nly	EMPC	Conc.
1	41 Total Hexa-Dioxins	33.80	32.37	2.614e3	2.178e3	1.240	1.20	NO	7.7735	7.7735
2	41 Total Hexa-Dioxins	33.80	33.19	2.524e3	1.996e3	1.240	1.27	NO	7.3321	7.3321
3	4 1,2,3,6,7,8-HxCDD	32.59	34.01	4.715e2	3.902e2	1.240	1.21	NO	1.3849	1.3849

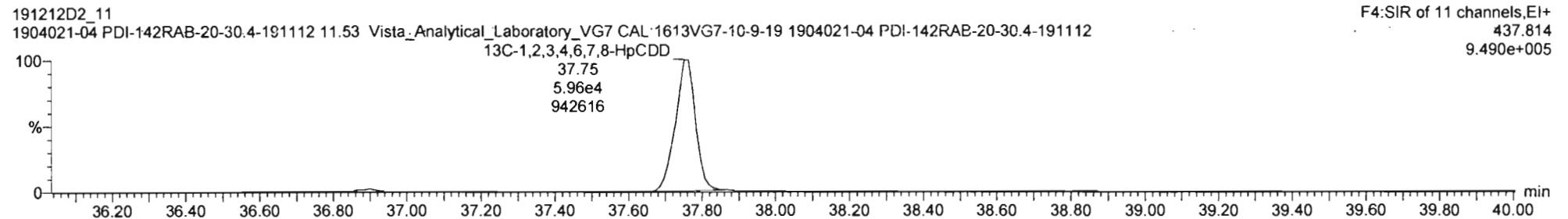
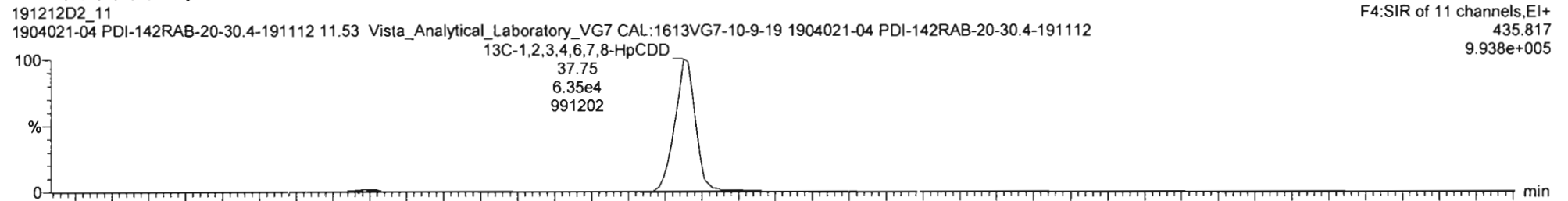


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Description: 1904021-04 PDI-142RAB-20-30.4-191112 11.53 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

Total Hepta-Dioxins



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

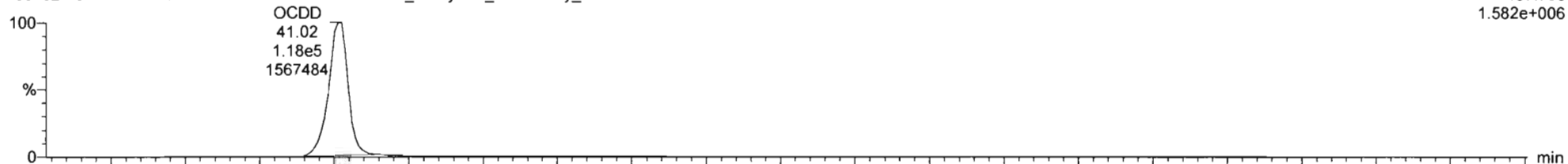


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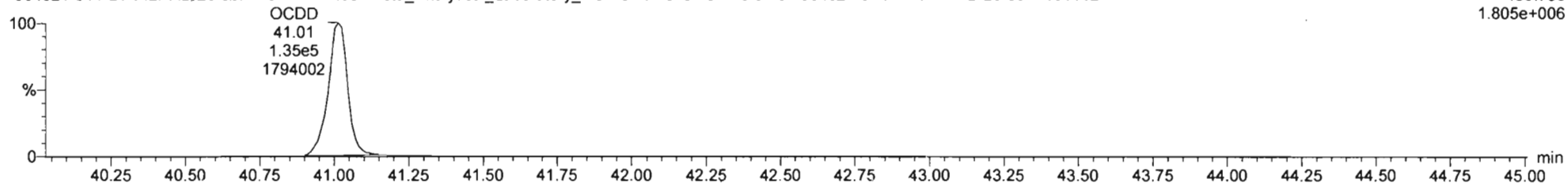
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F5:SIR of 11 channels,EI+
457.738
1.582e+006



191212D2_11
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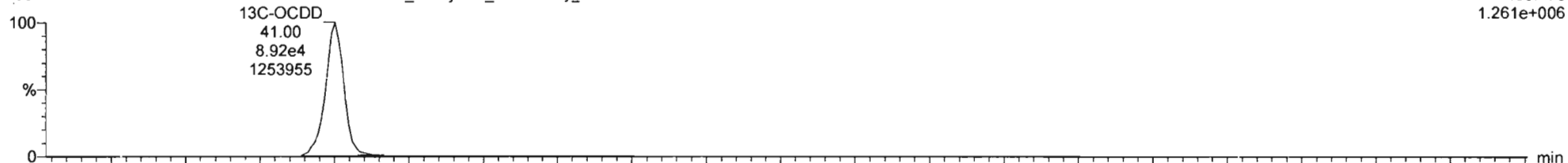
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13C-OCDD

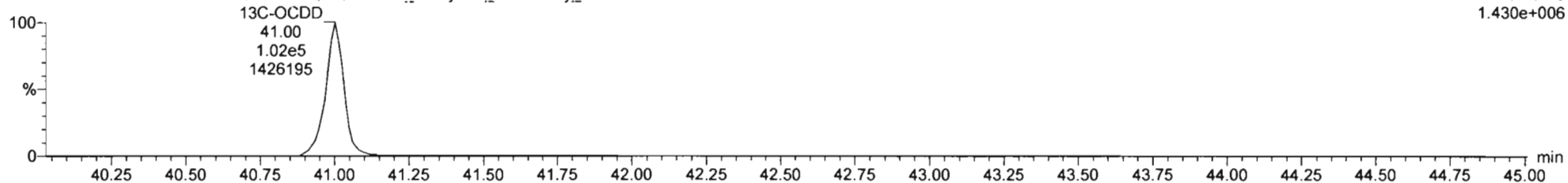
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F5:SIR of 11 channels,EI+
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191212D2_11
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F5:SIR of 11 channels,EI+
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Vista Analytical Laboratory

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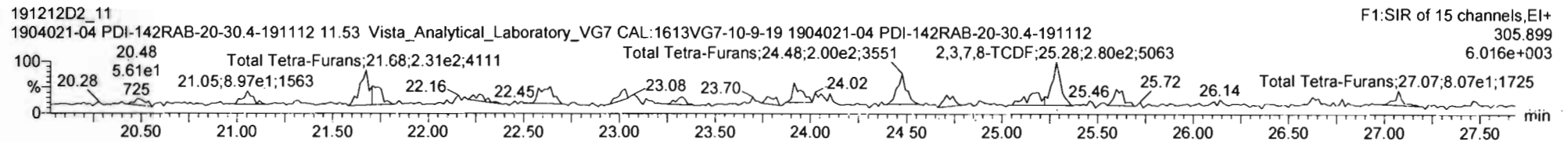
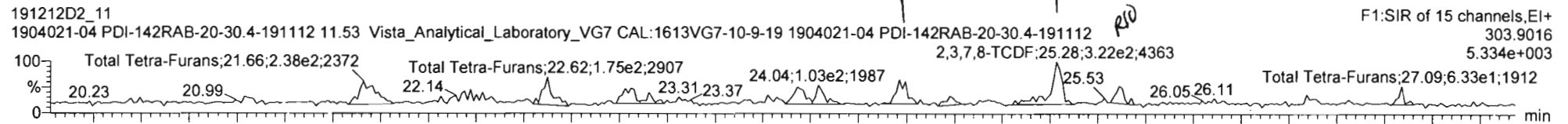
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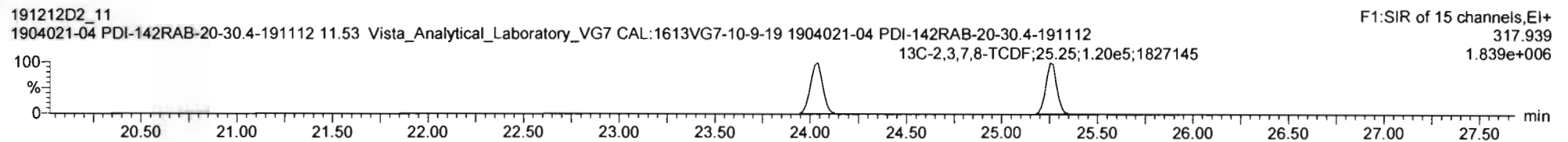
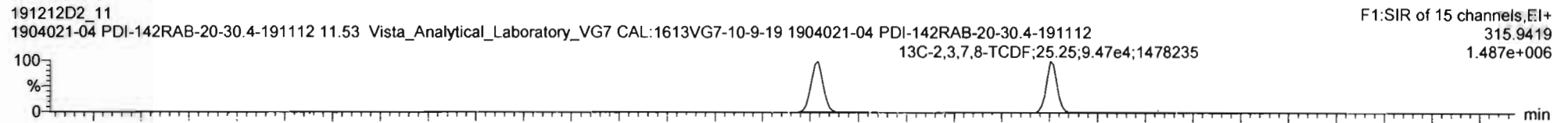
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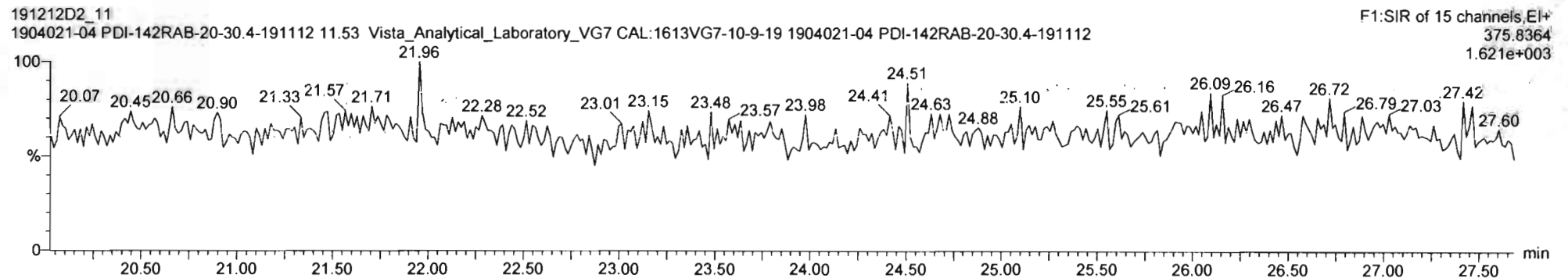
Total Tetra-Furans



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



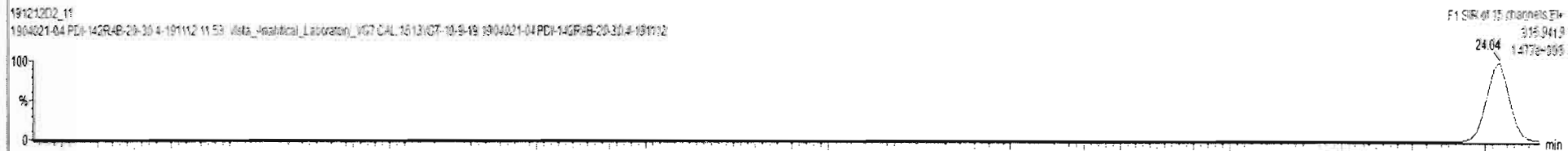
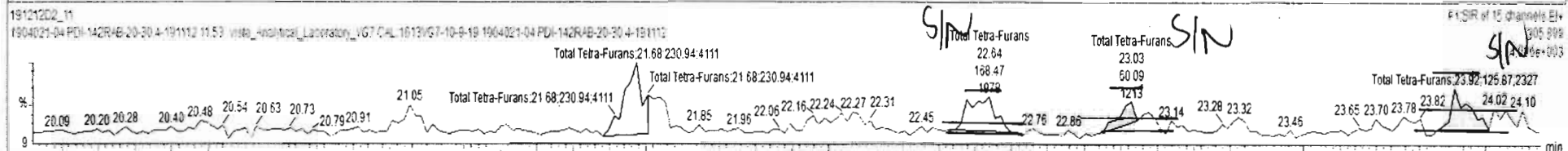
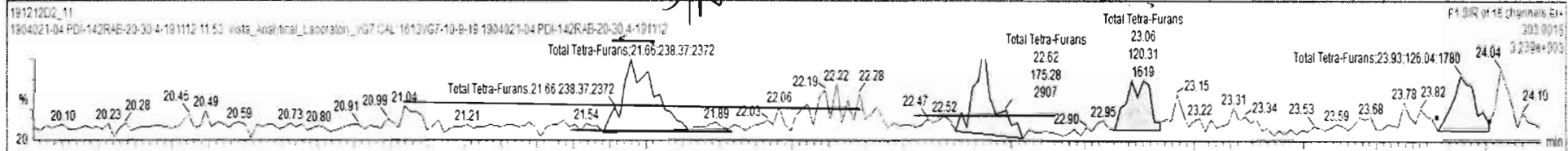
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#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wt/vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC
37	37 13C-1,2,3,4-TCDF	2.39e5	2.39e5	37	0.80	NO	1.000	10.151	24.06	24.04	1.000	1.000	NO	197.0	100	0.485	
38	38 13C-1,2,3,4,6,8-HxCDF	1.85e5	1.85e5	38	0.50	NO	1.000	10.151	33.42	33.41	1.000	1.000	NO	197.0	100	0.712	
39	39 Total Tetra-Dioxins		1.50e5				0.901	10.151	25.50			0.000	NO			0.115	
40	40 Total Penta-Dioxins		1.28e5				0.672	10.151	30.00			0.000	NO	0.9029		0.277	1.463
41	41 Total Hexa-Dioxins		0.00e0				0.976	10.151	33.80			0.000	NO	16.49		0.473	16.49
42	42 Total Hepta-Dioxins		1.23e5				0.989	10.151	37.75			0.000	NO	177.0		0.665	177.0
43	43 Total Tetra-Furans		2.15e5				0.943	10.151	24.00			0.000	NO	0.7009		0.215	2.302
44	44 1st Func. Penta-Furans		0.00e0				0.940	10.151	27.63			0.000	NO	2.923		0.0669	2.923
45	45 Total Penta-Furans		0.00e0				0.940	10.151	30.00			0.000	NO	2.968		0.147	4.228

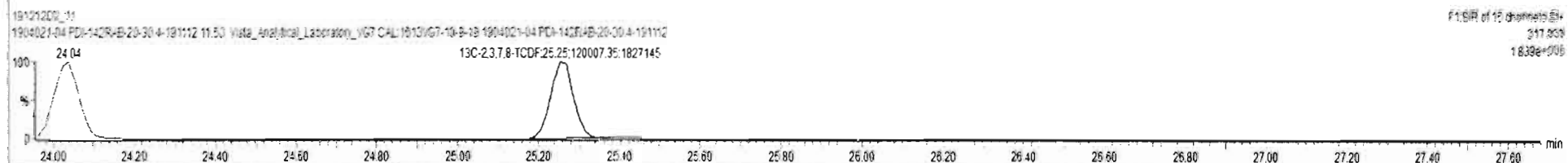
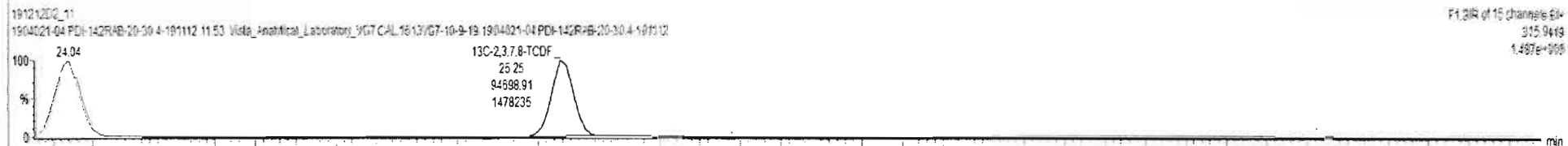
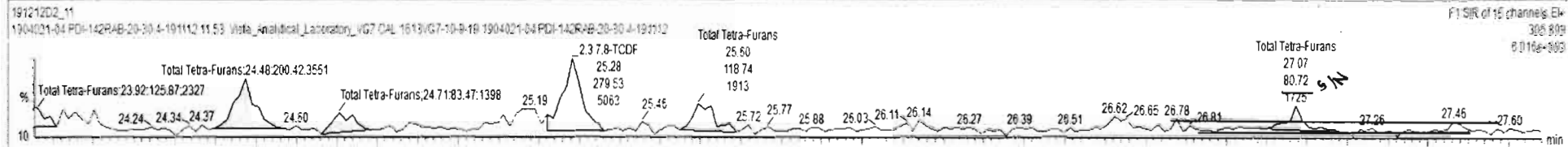
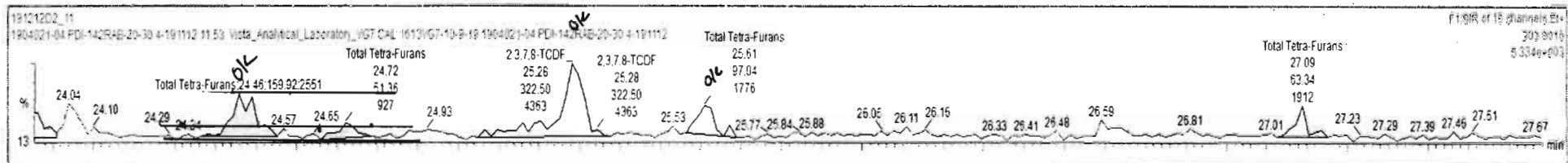
#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	43 Total Tetra-Furans	24.00	21.66	2.394e2	2.309e2	0.770	1.03	YES	0.39784	0.00000
2	43 Total Tetra-Furans	24.00	22.62	1.753e2	1.685e2	0.770	1.04	YES	0.29022	0.00000
3	43 Total Tetra-Furans	24.00	23.06	1.203e2	6.009e1	0.770	2.06	YES	0.10352	0.00000
4	43 Total Tetra-Furans	24.00	23.93	1.260e2	1.259e2	0.770	1.00	YES	0.21683	0.00000
5	43 Total Tetra-Furans	24.00	24.46	1.599e2	2.004e2	0.770	0.80	NO	0.35071	0.35071
6	43 Total Tetra-Furans	24.00	24.72	5.136e1	8.347e1	0.770	0.82	YES	0.11492	0.00000
7	6 2,3,7,8-TCDF	25.28	25.28	3.225e2	2.796e2	0.770	1.15	YES	0.47735	0.00000
8	43 Total Tetra-Furans	24.00	26.81	0.704e1	1.187e1	0.770	0.85	NO	0.21003	0.21003



191212D2_11 - 1904021-04 PDI-142RAB-20-30 4-191112 - 1904021-04 PDI-142RAB-20-30 4-191112 11:53 Vista_Analytical_Laboratory_VG7 CAL 1613VG7-10-9-19

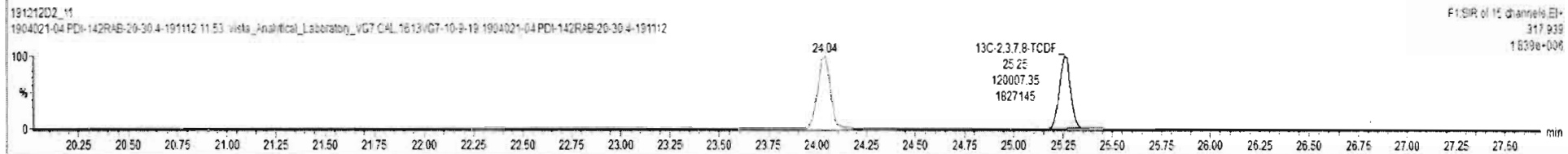
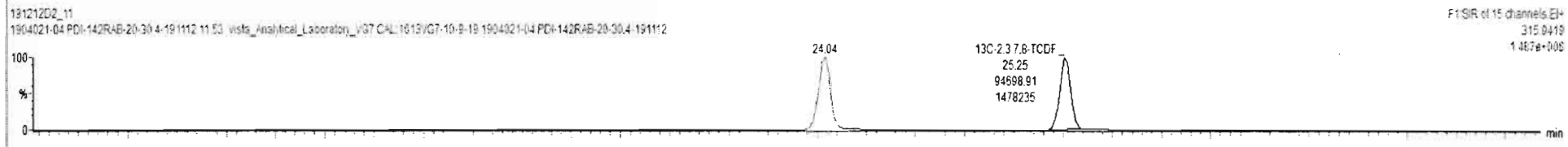
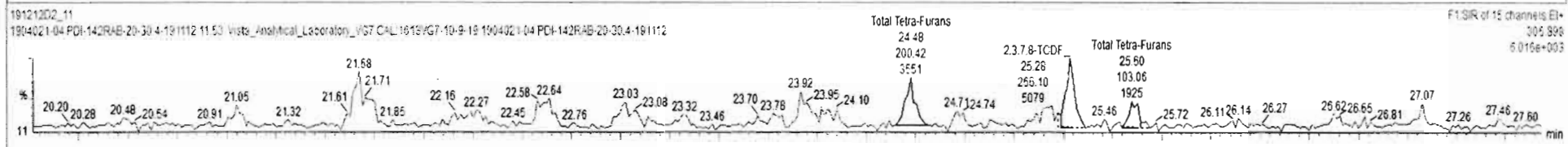
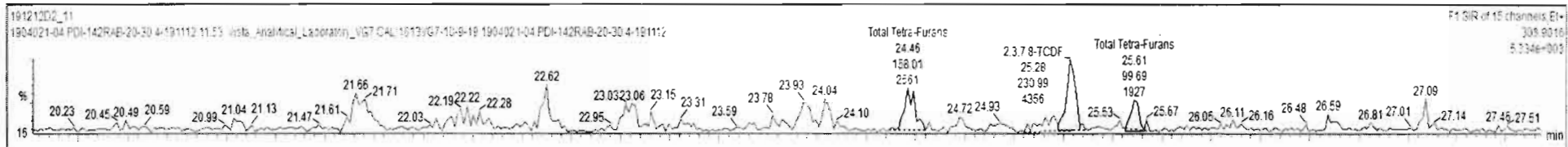
#	Name	Resp	IS Resp	IS#	RA	n/y	RPF	wt/vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	EMPC
37	13C-1,2,3,4-TCDF	2.39e5	2.39e5	37	0.80	NO	1.000	10.151	24.06	24.04	1.000	1.000	NO	197.0	100	0.485	
38	13C-1,2,3,4,6,9-hxCDF	1.85e5	1.85e5	38	0.50	NO	1.000	10.151	33.42	33.41	1.000	1.000	NO	197.0	100	0.712	
39	Total Tetra-Dioxins	1.50e5					0.601	10.151	25.50			0.000	NO			0.119	
40	Total Penta-Dioxins	1.28e5					0.872	10.151	30.00			0.000	NO	0.9529		0.277	1.483
41	Total Hexa-Dioxins	0.00e0					0.976	10.151	33.60			0.000	NO	16.48		0.473	16.48
42	Total Hepta-Dioxins	1.23e5					0.989	10.151	37.75			0.000	NO	177.0		0.865	177.0
43	Total Tetra-Furans	2.15e5					0.943	10.151	24.00			0.000	NO	0.7009		0.215	2.302
44	1st Func. Penta-Furans	0.00e0					0.940	10.151	27.63			0.000	NO	2.923		0.0689	2.923
45	Total Penta-Furans	0.00e0					0.940	10.151	30.00			0.000	NO	2.988		0.147	4.228

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc
1	43 Total Tetra-Furans	24.00	21.68	2.384e2	2.309e2	0.770	1.03	YES	0.39784	0.00000
2	43 Total Tetra-Furans	24.00	22.62	1.753e2	1.685e2	0.770	1.04	YES	0.28622	0.00000
3	43 Total Tetra-Furans	24.00	23.06	1.203e2	6.009e1	0.770	2.00	YES	0.10352	0.00000
4	43 Total Tetra-Furans	24.00	23.92	1.259e2	1.259e2	0.770	1.00	YES	0.21683	0.00000
5	43 Total Tetra-Furans	24.00	24.48	1.559e2	2.004e2	0.770	0.80	NO	0.35071	0.35071
6	43 Total Tetra-Furans	24.00	24.72	5.135e1	8.347e1	0.770	0.82	YES	0.11492	0.00000
7	8 2,3,7,8-TCDF	25.28	25.28	3.225e2	2.795e2	0.770	1.15	YES	0.47785	0.00000



#	Name	Resp	IS Resp	IS#	RA	nly	RF	wt/vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	EMPC
37	13C-1,2,3,4-TCDF	2.39e5	2.39e5	37	0.80	NO	1.000	10.151	24.06	24.04	1.000	1.000	NO	197.0	100	0.495	
38	13C-1,2,3,4,6,9-HxCDF	1.85e5	1.85e5	38	0.50	NO	1.000	10.151	32.42	33.41	1.000	1.000	NG	197.0	100	0.712	
39	Total Tetra-Dioxins		1.50e5				0.901	10.151	25.50			0.000	NO			0.119	
40	Total Penta-Dioxins		1.26e5				0.872	10.151	20.00			0.000	NO	0.9028		0.277	1.463
41	Total Hexa-Dioxins		0.00e0				0.976	10.151	33.80			0.000	NG	16.49		0.473	16.49
42	Total Hepta-Dioxins		1.23e5				0.989	10.151	37.75			0.000	NO	177.0		0.825	177.0
43	Total Tetra-Furans		2.15e5				0.943	10.151	24.00			0.000	NG	0.8289		0.215	1.006
44	1st Func. Penta-Furans		0.00e0				0.940	10.151	27.83			0.000	NO	2.923		0.0669	2.923
45	Total Penta-Furans		0.00e0				0.940	10.151	20.00			0.000	NG	2.968		0.147	4.228

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	nly	EMPC	Conc.
1	43 Total Tetra-Furans	24.00	24.46	1.580e2	2.004e2	0.770	0.75	NO	0.34886	0.34886
2	8 2,3,7,8-TCDF	25.28	25.28	2.315e2	2.861e2	0.770	0.87	NO	0.48008	0.48008
3	43 Total Tetra-Furans	24.00	25.61	9.969e1	1.031e2	0.770	0.97	YES	0.17754	0.60000



Vista Analytical Laboratory

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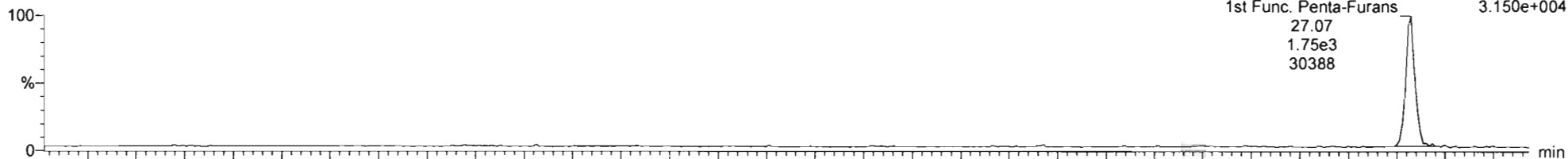
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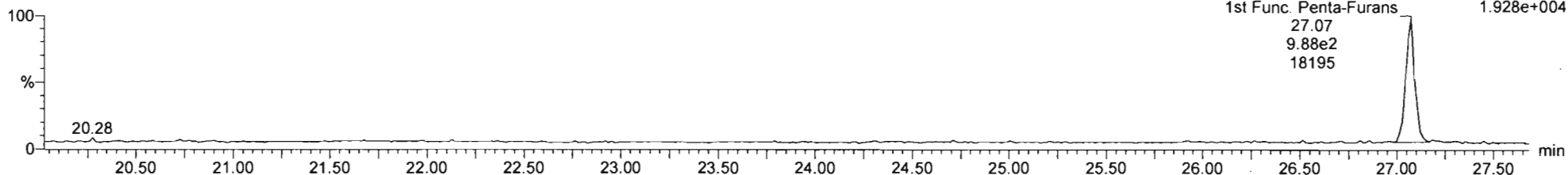
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Description: 1904021-04 PDI-142RAB-20-30.4-191112 11.53 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

1st Func. Penta-Furans

191212D2_11
1904021-04 PDI-142RAB-20-30.4-191112 11.53 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19 1904021-04 PDI-142RAB-20-30.4-191112

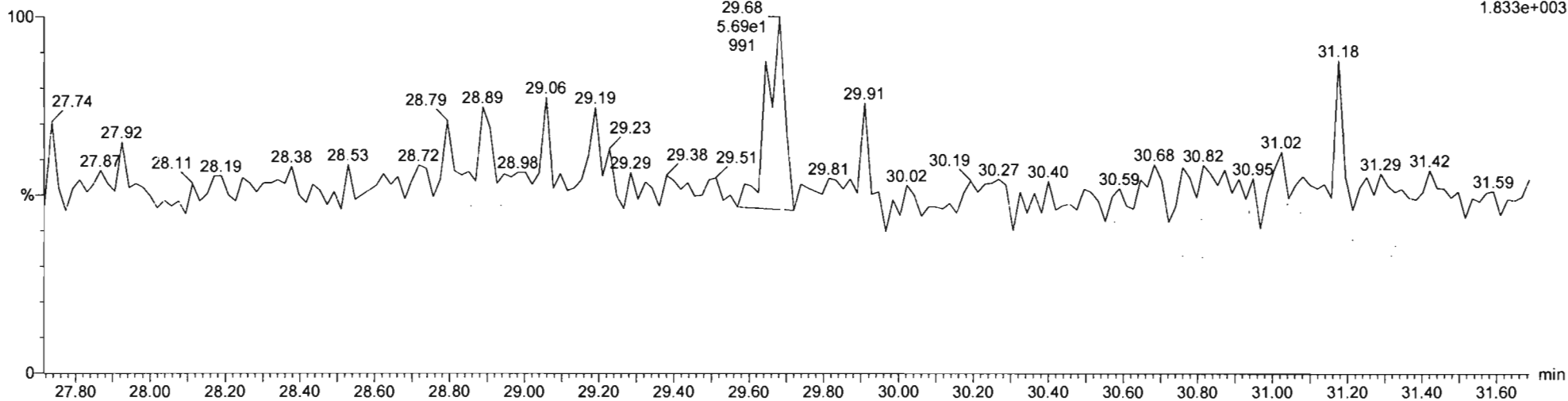


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DPE6

191212D2_11
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Vista Analytical Laboratory

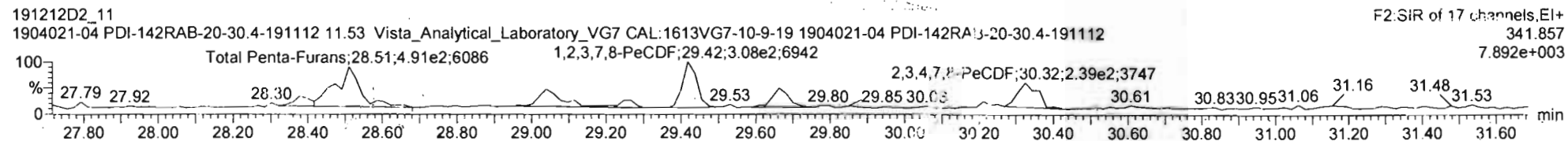
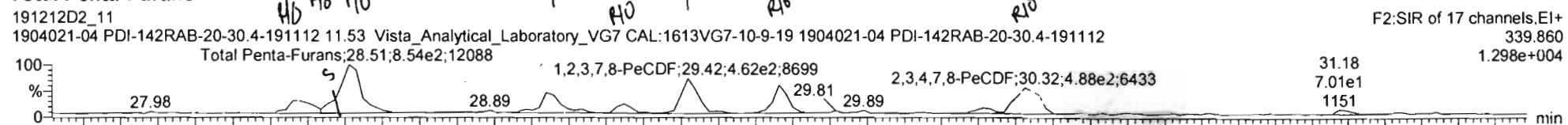
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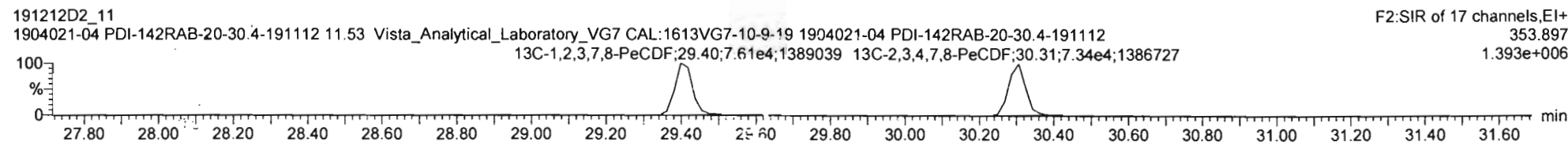
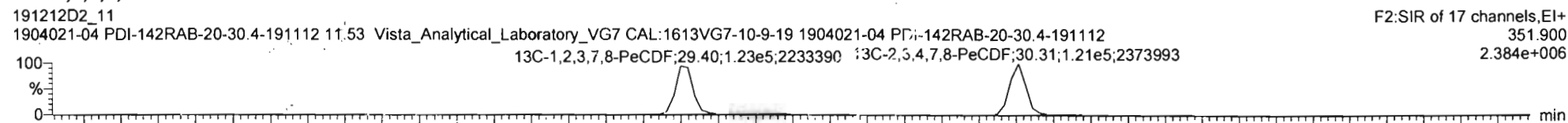
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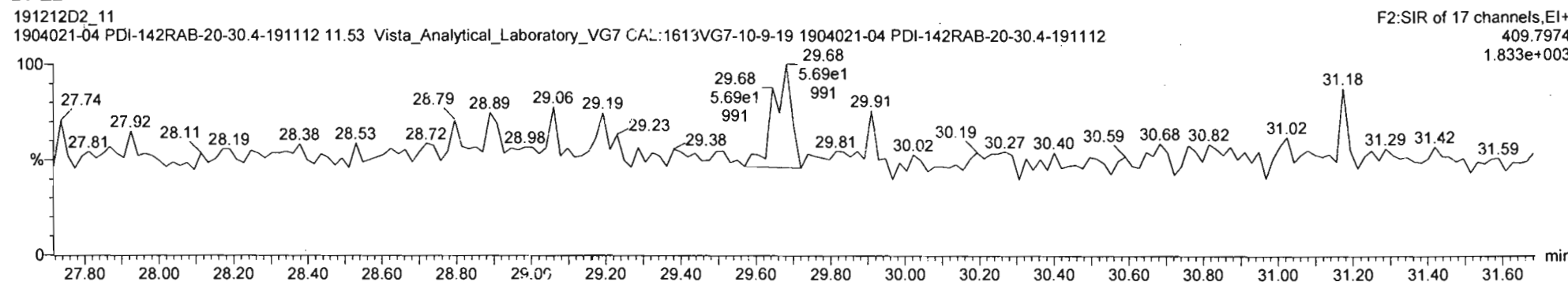
Total Penta-Furans



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



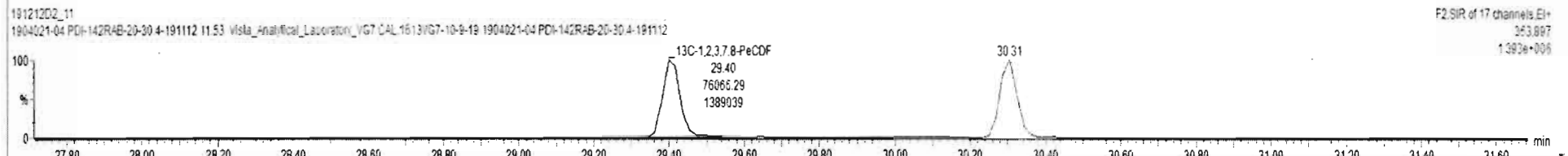
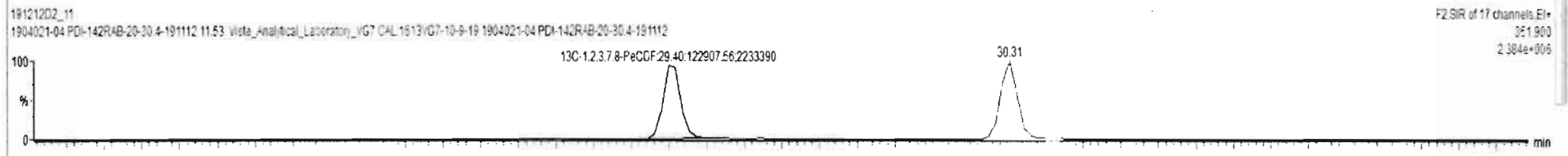
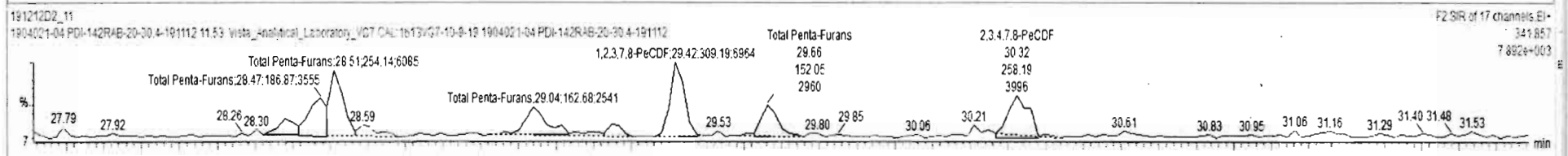
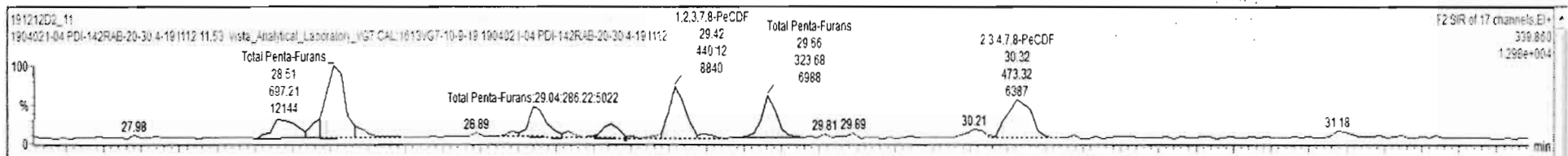
DPE2



191212D2_11 - 1904021-04 PDI-142RAB-20-30.4-191112 - 1904021-04 PDI-142RAB-20-30.4-191112 11.53 Vista_Analytical_Laboratory_VG7 CAL 1613VG7-10-9-19

#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wt/vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC
37	13C-1,2,3,4-TCDF	2.35e5	2.35e5	37	0.80	NO	1.000	10.151	24.06	24.04	1.000	1.000	NO	197.0	100	0.465	
38	13C-1,2,3,4,6,9-hxCDF	1.85e5	1.85e5	38	0.50	NO	1.000	10.151	33.42	33.41	1.000	1.000	NO	197.0	100	0.712	
39	Total Tetra-Dioxins		1.50e5				0.901	10.151	25.50			0.000	NO			0.119	
40	Total Penta-Dioxins		1.26e5				0.872	10.151	30.00			0.000	NO	0.9028		0.277	1.463
41	Total Hexa-Dioxins		0.00e0				0.976	10.151	33.00			0.000	NO	16.49		0.473	16.49
42	Total Hepta-Dioxins		1.23e5				0.989	10.151	37.75			0.000	NO	177.0		0.665	177.0
43	Total Tetra-Furans		2.15e5				0.943	10.151	24.00			0.000	NO	0.8289		0.215	1.006
44	1st Func. Penta-Furans		0.00e0				0.940	10.151	27.63			0.000	NO	2.923		0.0629	2.923
45	Total Penta-Furans		0.00e0				0.940	10.151	30.00			0.000	NO	1.251		0.147	3.502

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	45 Total Penta-Furans	30.00	28.36	2.403e2	7.499e1	1.550	3.20	YES	0.20399	0.00000
2	45 Total Penta-Furans	30.00	28.47	6.413e1	1.869e2	1.550	0.45	YES	0.14764	0.00000
3	45 Total Penta-Furans	30.00	28.51	6.972e2	2.541e2	1.550	2.74	YES	0.69135	0.00000
4	45 Total Penta-Furans	30.00	29.04	2.862e2	1.627e2	1.550	1.76	NO	0.47880	0.47888
5	45 Total Penta-Furans	30.00	29.25	1.192e2	4.962e1	1.550	2.39	YES	0.13580	0.00000
6	9 1,2,3,7,8-PeCDF	29.42	29.42	4.401e2	3.052e2	1.550	1.42	NO	0.77253	0.77253
7	45 Total Penta-Furans	30.00	29.86	3.237e2	1.520e2	1.550	2.13	YES	0.41362	0.00000
8	10 1,2,3,7,8-PeCDF	30.31	30.31	7.733e2	3.663e2	1.550	1.89	YES	0.26614	0.00000



Custom Reporting: Select reports to generate

191212D2_11

CAP NUM

Vista Analytical Laboratory

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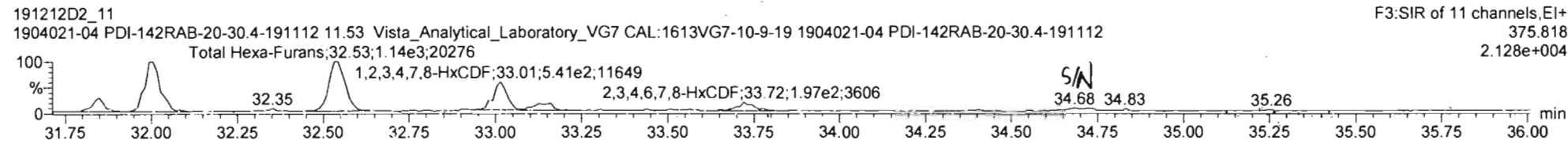
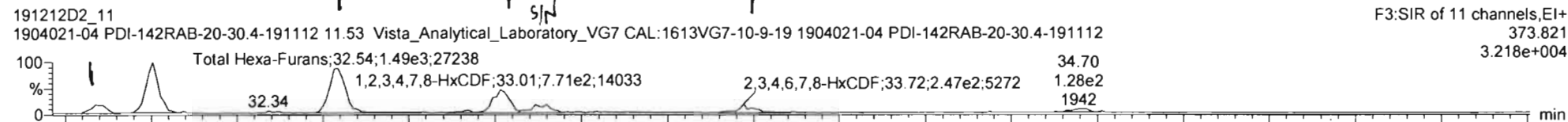
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Printed: Tuesday, December 17, 2019 09:53:46 Pacific Standard Time

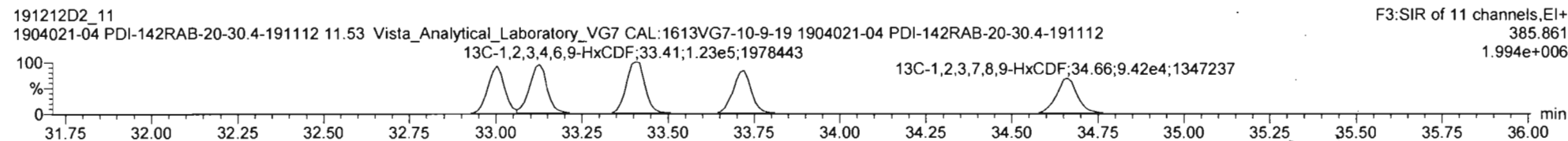
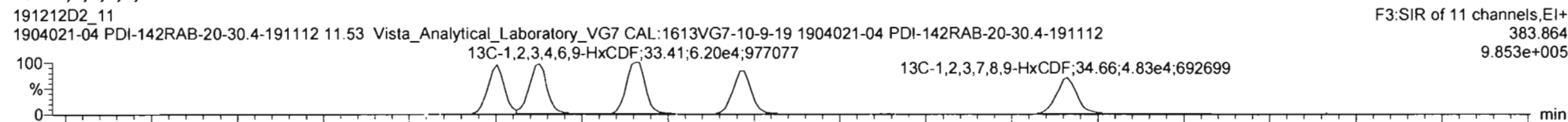
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Description: 1904021-04 PDI-142RAB-20-30.4-191112 11.53 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

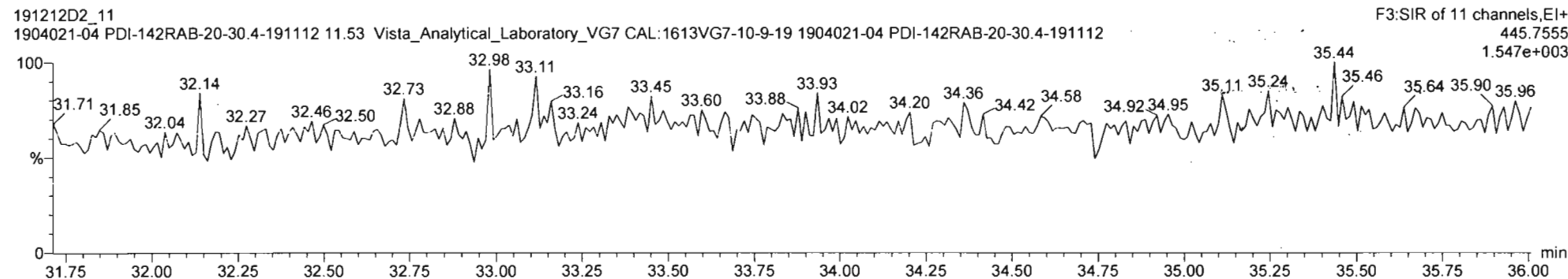
Total Hexa-Furans



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



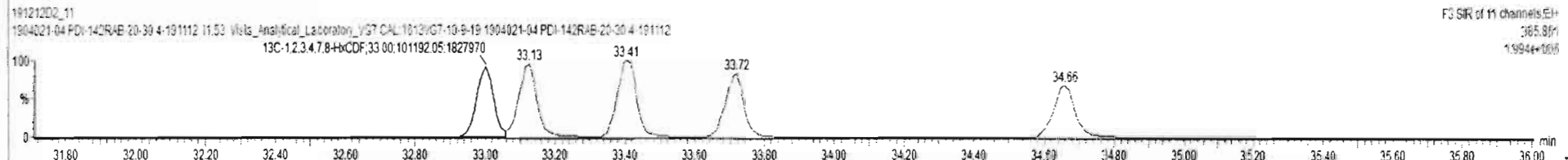
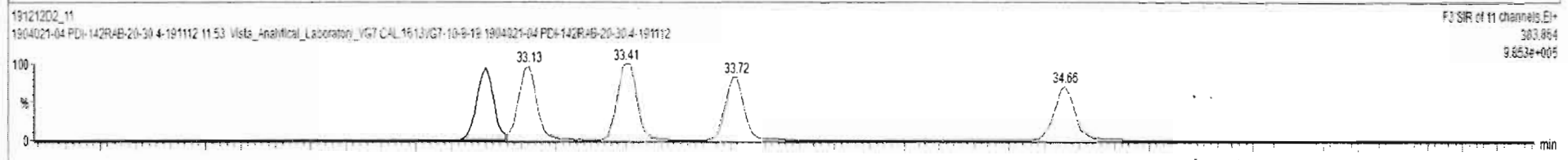
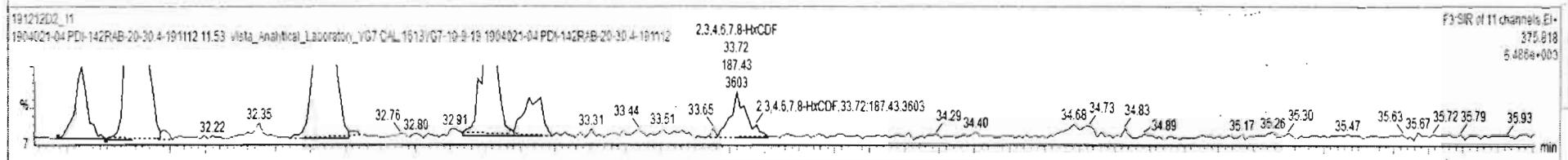
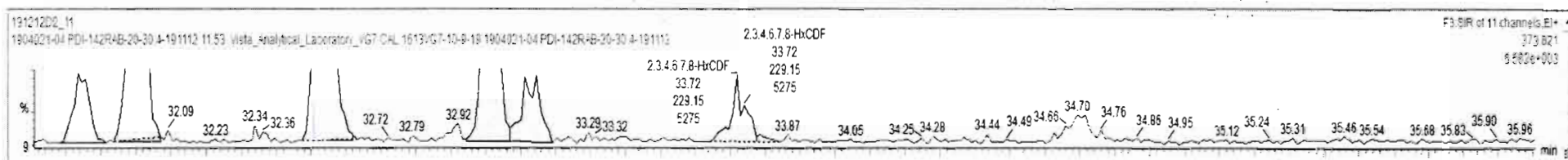
DPE3



191212D2_11 - 1904021-04 PDI-142RAB-20-30.4-191112 - 1904021-04 PDI-142RAB-20-30.4-191112 11.53 Vista_Analytical_Laboratory_VG7.CAL 1613VG7-10.9-19

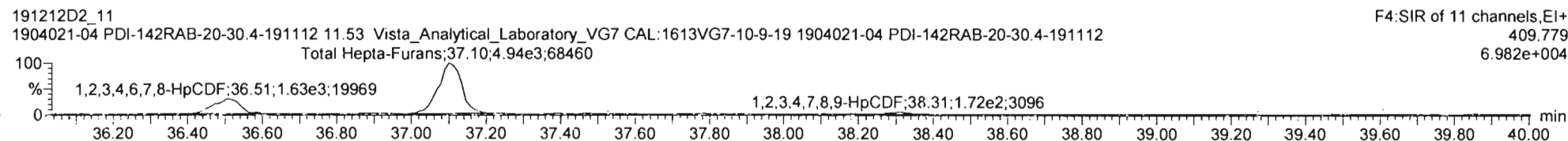
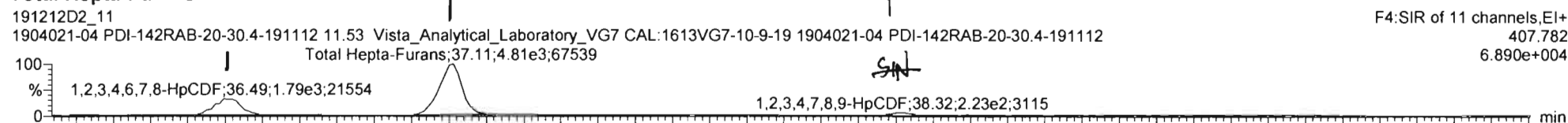
#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wt/vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	EMPC
37	13C-1,2,3,4-TCDF	2.39e5	2.39e5	37	0.60	NO	1.000	10.151	24.06	24.04	1.000	1.000	NO	197.0	100	0.495	
38	13C-1,2,3,4,6,9-HxCDF	1.85e5	1.85e5	38	0.50	NO	1.000	10.151	33.42	33.41	1.000	1.000	NO	197.0	100	0.712	
39	Total Tetra-Dioxins		1.50e5				0.901	10.151	25.50			0.000	NO			0.119	
40	Total Penta-Dioxins		1.28e5				0.872	10.151	30.00			0.000	NO	0.5029		0.277	1.463
41	Total Hexa-Dioxins		0.00e0				0.976	10.151	33.80			0.000	NO	16.49		0.473	16.49
42	Total Hepta-Dioxins		1.23e5				0.989	10.151	37.75			0.000	NO	177.0		0.665	177.0
43	Total Tetra-Furans		2.15e5				0.943	10.151	24.00			0.000	NO	0.6266		0.215	1.006
44	1st Func. Penta-Furans		0.00e0				0.940	10.151	27.63			0.000	NO	2.923		0.0669	2.923
45	Total Penta-Furans		0.00e0				0.940	10.151	30.00			0.000	NO	1.251		0.147	3.502

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	46 Total Hexa-Furans	33.00	31.84	2.850e2	2.345e2	1.240	1.22	NO	0.81806	0.81806
2	46 Total Hexa-Furans	33.00	32.00	1.360e3	1.560e3	1.240	1.25	NO	2.9148	2.9148
3	46 Total Hexa-Furans	33.00	32.54	1.452e3	1.147e3	1.240	1.30	NO	3.1386	3.1386
4	11 1,2,3,4,7,8-HxCDF	33.00	33.01	7.706e2	5.701e2	1.240	1.35	NO	1.4717	1.4717
5	12 1,2,3,6,7,8-HxCDF	33.14	33.15	3.114e2	1.931e2	1.240	1.61	YES	0.47251	0.00000
6	13 2,3,4,6,7,8-HxCDF	33.75	33.72	2.292e2	1.674e2	1.240	1.22	NO	0.48622	0.48622

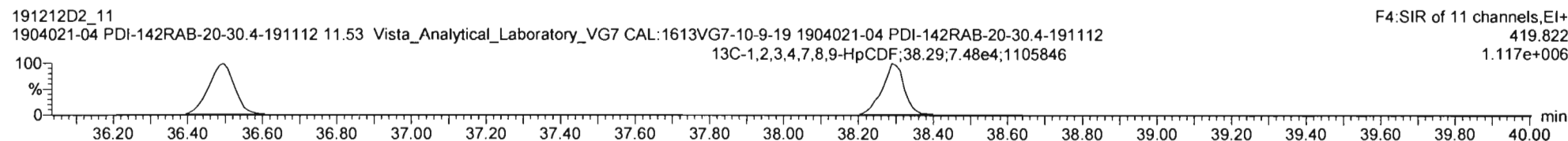
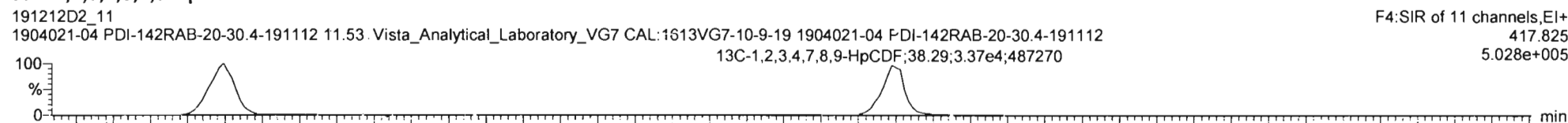


Name: 191212D2_11, Date: 13-DEC-2019, Time: 08:55:01, ID: 1904021-04 PDI-142RAB-20-30.4-191112,
Description: 1904021-04 PDI-142RAB-20-30.4-191112 11.53 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

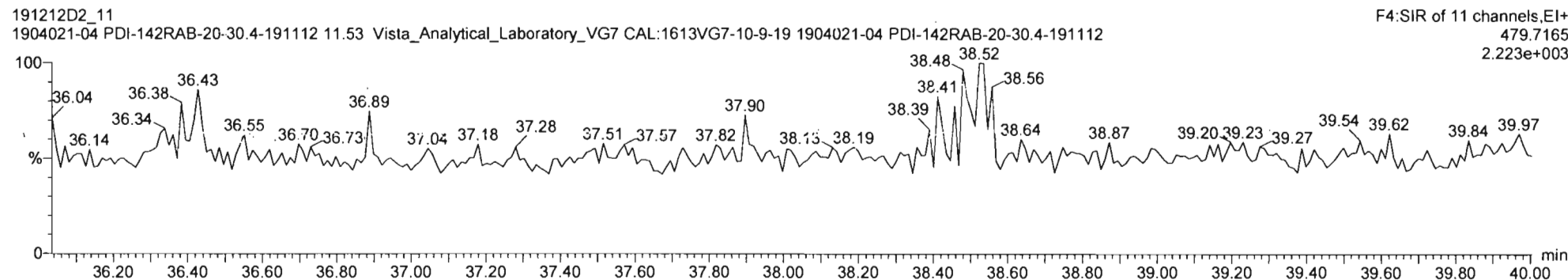
Total Hepta-Furans



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



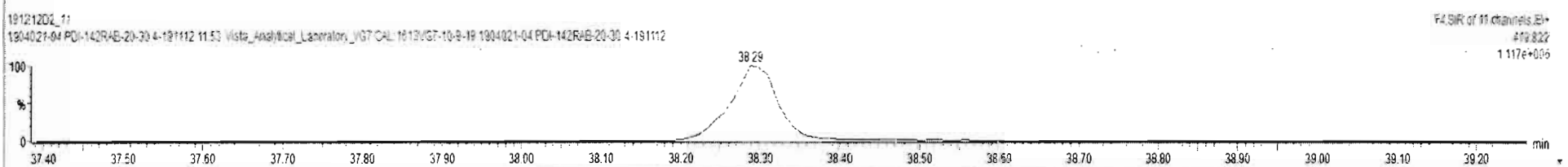
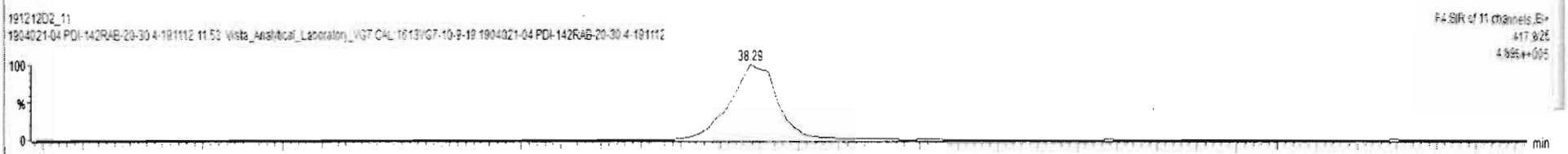
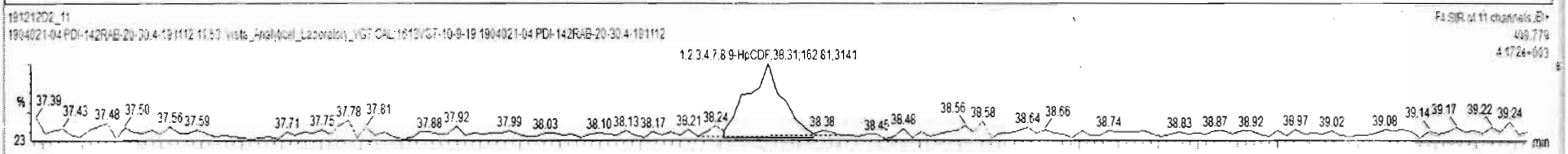
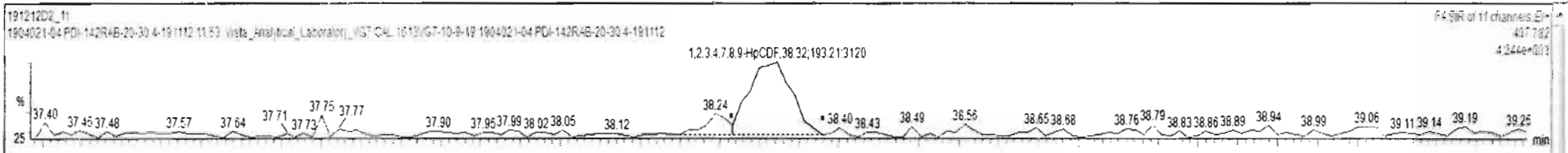
DPE4



191212D2_11 - 1904021-04 PDI-142RAB-20-30 4-191112 - 1904021-04 PDI-142RAB-20-30 4-191112 11.53 Vista_Analytical_Laboratory_VG7 CAL 1613VG7-10-9-19

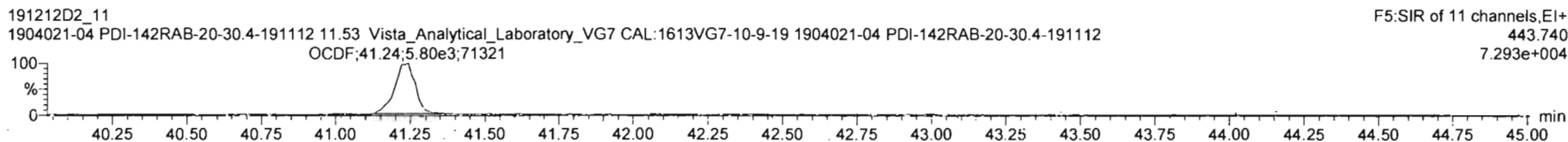
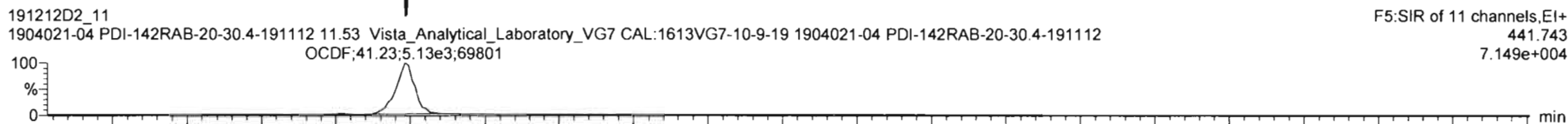
#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wt/vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC	
47	Total Hepta-Furans		0.06e0				1.135	10.151	37.75			0.000	NO	19.65		0.239	19.69	
48	PFK1																	
49	PFK2																	
50	PFK3																	
51	PFK4																	
52	PFK5																	
53	DPE1																	
54	DPE2																	
55	DPE3																	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	1,2,3,4,7,8-HpCDF	38.53	38.49	1.789e3	1.634e2	1.040	1.110	NO	4.7116	4.7116
2	Total Hepta-Furans	37.75	37.11	4.808e3	5.005e3	1.040	0.96	NO	14.472	14.472
3	1,2,3,4,7,8,9-HpCDF	38.29	38.32	1.932e2	1.628e2	1.040	1.15	NO	0.59511	0.59511

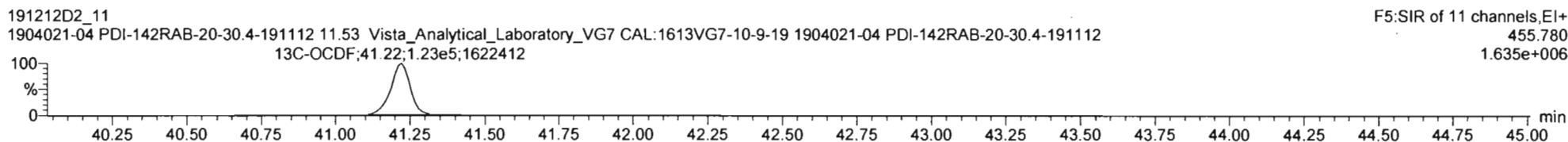
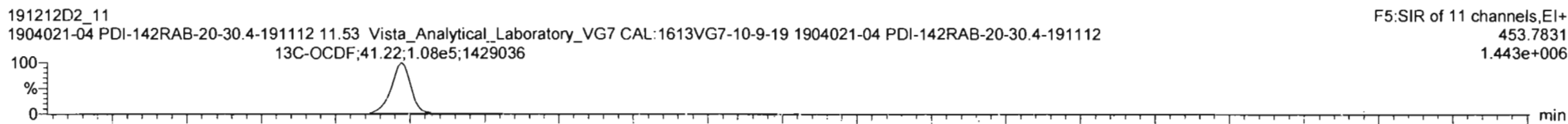


Name: 191212D2_11, Date: 13-DEC-2019, Time: 08:55:01, ID: 1904021-04 PDI-142RAB-20-30.4-191112,
Description: 1904021-04 PDI-142RAB-20-30.4-191112 11.53 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

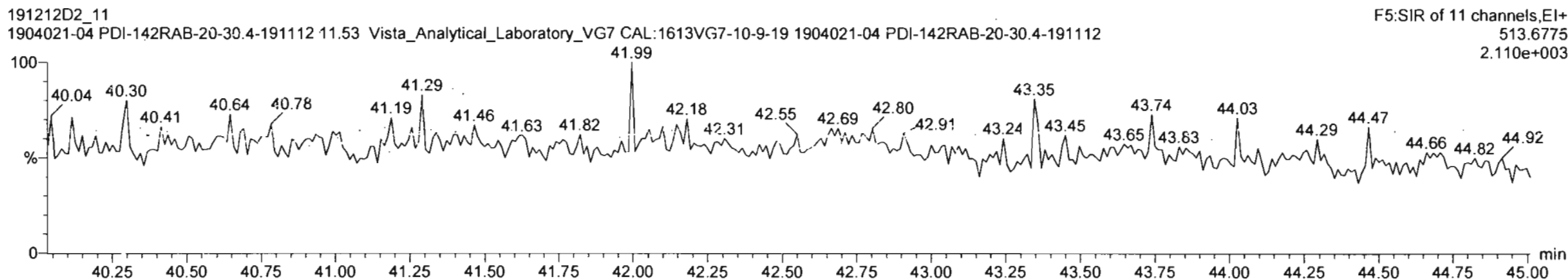
OCDF



13C-OCDF



DPE5



Vista Analytical Laboratory

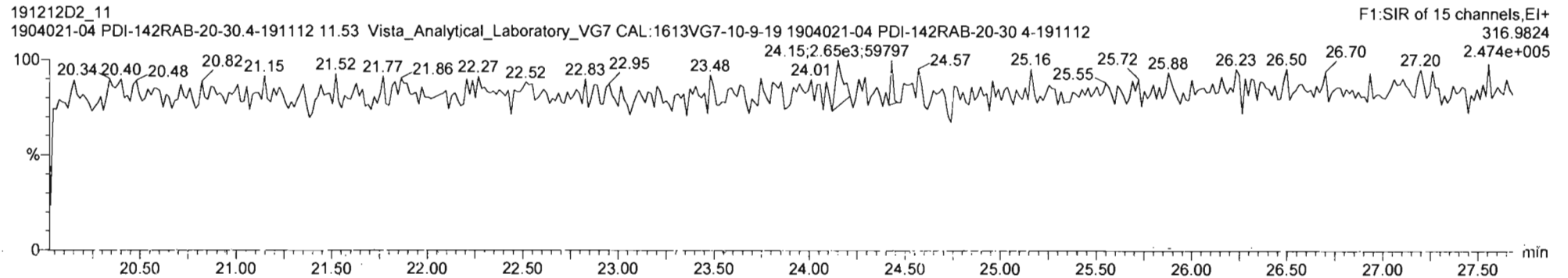
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Last Altered: Tuesday, December 17, 2019 09:53:12 Pacific Standard Time

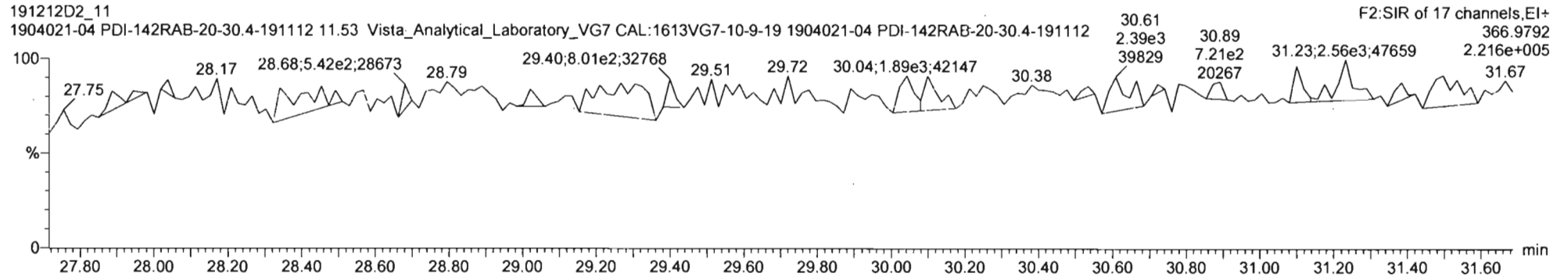
Printed: Tuesday, December 17, 2019 09:53:46 Pacific Standard Time

Name: 191212D2_11, Date: 13-DEC-2019, Time: 08:55:01, ID: 1904021-04 PDI-142RAB-20-30.4-191112,
Description: 1904021-04 PDI-142RAB-20-30.4-191112 11.53 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

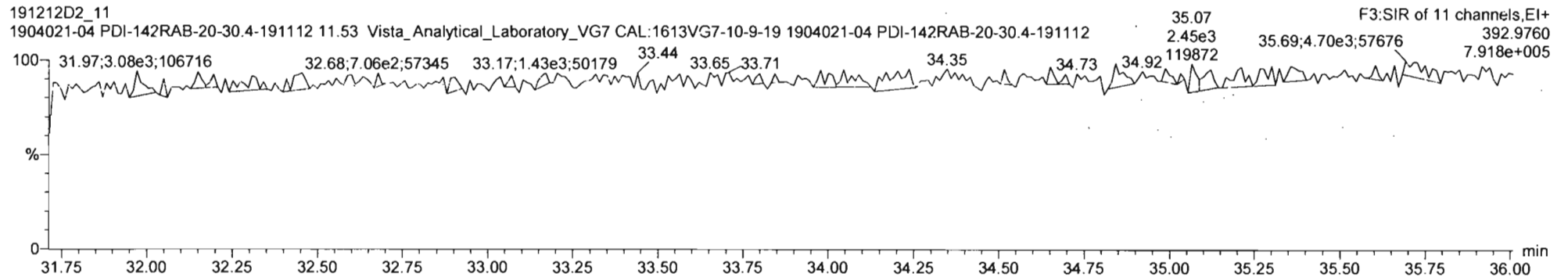
PFK1



PFK2



PFK3



Vista Analytical Laboratory

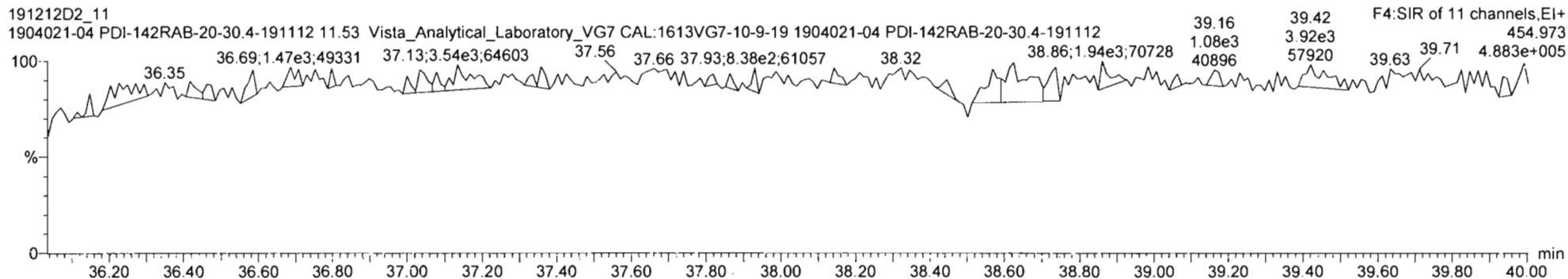
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Last Altered: Tuesday, December 17, 2019 09:53:12 Pacific Standard Time

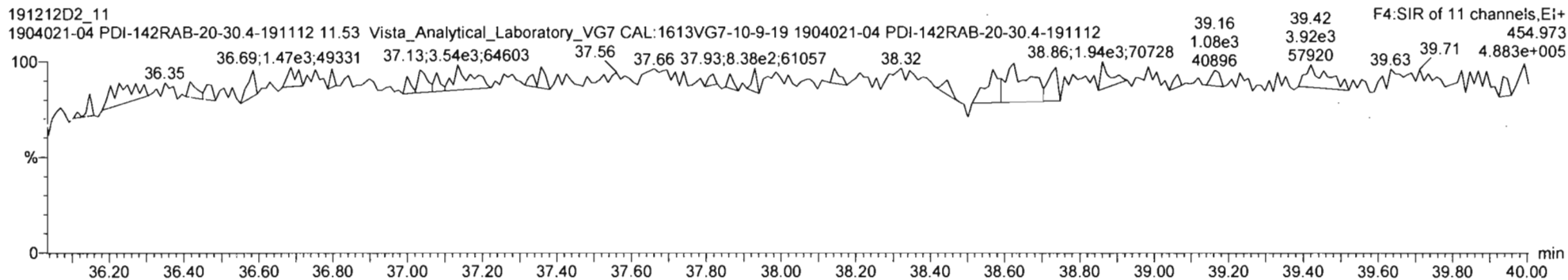
Printed: Tuesday, December 17, 2019 09:53:46 Pacific Standard Time

Name: 191212D2_11, Date: 13-DEC-2019, Time: 08:55:01, ID: 1904021-04 PDI-142RAB-20-30.4-191112,
Description: 1904021-04 PDI-142RAB-20-30.4-191112 11.53 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

PFK4



PFK5



Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191212D2\191212D2_12.qld

Last Altered: Friday, December 27, 2019 11:14:17 Pacific Standard Time

Printed: Friday, December 27, 2019 11:18:25 Pacific Standard Time

EL 12/27/19

CT 12/27/19

Method: U:\VG7.PRO\MethDB\1613VG7-12-4-19.mdb 10 Dec 2019 16:21:14

Calibration: 17 Dec 2019 10:06:59

Name: 191212D2_12, Date: 13-DEC-2019, Time: 09:42:52, ID: 1904021-05 PDI-144RAB-00-10-191113,

Description: 1904021-05 PDI-144RAB-00-10-191113 10.97 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

#	Name	Area	IS Area	Wt./Vol.	RRF	RA	Y/N	Pred...	RRT	Pred.RT	RT	Conc.	%Rec	EMPC	DL
1	1 2,3,7,8-TCDD		1.66e5	10.0771	0.905			1.001		26.08					0.137
2	2 1,2,3,7,8-PeCDD		1.42e5	10.0771	0.903			1.001		30.59					0.146
3	3 1,2,3,4,7,8-HxCDD		1.28e5	10.0771	1.101			1.000		33.89					0.241
4	4 1,2,3,6,7,8-HxCDD		1.44e5	10.0771	0.939			1.000		33.98					0.242
5	5 1,2,3,7,8,9-HxCDD		1.45e5	10.0771	0.961			1.001		34.31					0.260
6	6 1,2,3,4,6,7,8-HpCDD	8.23e3	1.42e5	10.0771	0.979	0.991	NO	1.000	1.000	37.75	37.75	11.721		11.7	0.377
7	7 OCDD	8.34e4	2.55e5	10.0771	0.959	0.881	NO	1.000	1.000	40.99	41.01	135.37		135	0.376
8	8 2,3,7,8-TCDF	4.29e2	2.41e5	10.0771	0.950	0.956	YES	1.001	1.001	25.28	25.29	0.37148		0.336	0.138
9	9 1,2,3,7,8-PeCDF	3.32e2	2.13e5	10.0771	0.960	1.456	NO	1.001	1.001	29.42	29.42	0.32285		0.323	0.105
10	10 2,3,4,7,8-PeCDF	1.72e2	2.12e5	10.0771	1.015	1.568	NO	1.000	1.000	30.31	30.31	0.15856		0.159	0.102
11	11 1,2,3,4,7,8-HxCDF	7.14e2	1.71e5	10.0771	1.177	1.214	NO	1.000	1.001	33.00	33.02	0.70543		0.705	0.165
12	12 1,2,3,6,7,8-HxCDF		1.88e5	10.0771	1.069			1.000		33.13					0.169
13	13 2,3,4,6,7,8-HxCDF		1.71e5	10.0771	1.114			1.001		33.75					0.200
14	14 1,2,3,7,8,9-HxCDF		1.63e5	10.0771	1.062			1.000		34.65					0.251
15	15 1,2,3,4,6,7,8-HpCDF	1.51e3	1.68e5	10.0771	1.128	1.111	NO	1.001	1.000	36.51	36.49	1.5781		1.58	0.173
16	16 1,2,3,4,7,8,9-HpCDF	1.97e2	1.34e5	10.0771	1.280	1.219	YES	1.000	1.000	38.28	38.27	0.22816		0.210	0.164
17	17 OCDF	3.21e3	3.25e5	10.0771	0.947	0.855	NO	1.000	1.000	41.21	41.23	4.1351		4.14	0.183
18	18 13C-2,3,7,8-TCDD	1.66e5	1.49e5	10.0771	1.095	0.821	NO	1.021	1.022	26.03	26.05	201.80	101.7		0.363
19	19 13C-1,2,3,7,8-PeCDD	1.42e5	1.49e5	10.0771	0.881	0.630	NO	1.187	1.199	30.25	30.57	214.93	108.3		0.268
20	20 13C-1,2,3,4,7,8-Hx...	1.28e5	1.92e5	10.0771	0.642	1.274	NO	1.014	1.014	33.87	33.88	205.21	103.4		0.678
21	21 13C-1,2,3,6,7,8-Hx...	1.44e5	1.92e5	10.0771	0.856	1.269	NO	1.017	1.017	33.99	33.98	173.75	87.5		0.509
22	22 13C-1,2,3,7,8,9-Hx...	1.45e5	1.92e5	10.0771	0.807	1.256	NO	1.026	1.026	34.29	34.27	185.81	93.6		0.540
23	23 13C-1,2,3,4,6,7,8-H...	1.42e5	1.92e5	10.0771	0.654	1.102	NO	1.126	1.130	37.63	37.74	224.74	113.2		0.845
24	24 13C-OCDD	2.55e5	1.92e5	10.0771	0.580	0.888	NO	1.226	1.227	40.96	40.99	454.75	114.6		0.675
25	25 13C-2,3,7,8-TCDF	2.41e5	2.43e5	10.0771	1.035	0.797	NO	0.992	0.991	25.28	25.25	190.03	95.7		0.356
26	26 13C-1,2,3,7,8-PeCDF	2.13e5	2.43e5	10.0771	0.854	1.558	NO	1.154	1.153	29.41	29.40	203.04	102.3		0.534
27	27 13C-2,3,4,7,8-PeCDF	2.12e5	2.43e5	10.0771	0.847	1.638	NO	1.189	1.189	30.30	30.31	204.13	102.9		0.538
28	28 13C-1,2,3,4,7,8-Hx...	1.71e5	1.92e5	10.0771	0.832	0.500	NO	0.987	0.988	32.99	33.00	211.96	106.8		0.983
29	29 13C-1,2,3,6,7,8-Hx...	1.88e5	1.92e5	10.0771	1.034	0.510	NO	0.991	0.991	33.10	33.12	187.39	94.4		0.790
30	30 13C-2,3,4,6,7,8-Hx...	1.71e5	1.92e5	10.0771	0.953	0.517	NO	1.009	1.009	33.72	33.71	185.76	93.6		0.858
31	31 13C-1,2,3,7,8,9-Hx...	1.63e5	1.92e5	10.0771	0.828	0.518	NO	1.039	1.037	34.70	34.65	203.68	102.6		0.988

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191212D2\191212D2_12.qld

Last Altered: Friday, December 27, 2019 11:14:17 Pacific Standard Time

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Name: 191212D2_12, Date: 13-DEC-2019, Time: 09:42:52, ID: 1904021-05 PDI-144RAB-00-10-191113,
 Description: 1904021-05 PDI-144RAB-00-10-191113 10.97 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

#	Name	Area	IS Area	Wt./Vol.	RRF	RA	Y/N	Pred...	RRT	Pred.RT	RT	Conc.	%Rec	EMPC	DL
32	32 13C-1,2,3,4,6,7,8-H...	1.68e5	1.92e5	10.0771	0.757	0.431	NO	1.093	1.092	36.51	36.48	229.55	115.7		0.792
33	33 13C-1,2,3,4,7,8,9-H...	1.34e5	1.92e5	10.0771	0.581	0.444	NO	1.143	1.146	38.19	38.28	237.82	119.8		1.03
34	34 13C-OCDF	3.25e5	1.92e5	10.0771	0.689	0.878	NO	1.233	1.234	41.20	41.21	487.98	122.9		0.660
35	35 37Cl-2,3,7,8-TCDD	7.00e4	1.49e5	10.0771	1.198			1.022	1.023	26.05	26.06	77.990	98.2		0.318
36	36 13C-1,2,3,4-TCDD	1.49e5	1.49e5	10.0771	1.000	0.826	NO	1.000	1.000	25.50	25.49	198.47	100.0		0.398
37	37 13C-1,2,3,4-TCDF	2.43e5	2.43e5	10.0771	1.000	0.813	NO	1.000	1.000	24.06	24.04	198.47	100.0		0.368
38	38 13C-1,2,3,4,6,9-Hx...	1.92e5	1.92e5	10.0771	1.000	0.511	NO	1.000	1.000	33.42	33.41	198.47	100.0		0.817
39	39 Total Tetra-Dioxins		1.66e5	10.0771	0.901			0.000		25.50					0.0799
40	40 Total Penta-Dioxins		1.42e5	10.0771	0.872			0.000		30.00					0.0794
41	41 Total Hexa-Dioxins		0.00e0	10.0771	0.976			0.000		33.80		1.1456		2.17	0.253
42	42 Total Hepta-Dioxins		1.42e5	10.0771	0.989			0.000		37.75		26.363		26.4	0.374
43	43 Total Tetra-Furans		2.41e5	10.0771	0.943			0.000		24.00		0.00000		0.336	0.0679
44	44 1st Func. Penta-Fur...		0.00e0	10.0771	0.940			0.000		27.63		0.50383		0.504	0.0580
45	45 Total Penta-Furans		0.00e0	10.0771	0.940			0.000		30.00		0.67277		1.23	0.109
46	46 Total Hexa-Furans		0.00e0	10.0771	1.078			0.000		33.00		2.5503		2.55	0.199
47	47 Total Hepta-Furans		0.00e0	10.0771	1.135			0.000		37.75		4.6438		4.85	0.178

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191212D2\191212D2_12.qld

Last Altered: Friday, December 27, 2019 11:14:17 Pacific Standard Time

Printed: Friday, December 27, 2019 11:18:25 Pacific Standard Time

Method: U:\VG7.PRO\MethDB\1613VG7-12-4-19.mdb 10 Dec 2019 16:21:14

Calibration: 17 Dec 2019 10:06:59

Name: 191212D2_12, Date: 13-DEC-2019, Time: 09:42:52, ID: 1904021-05 PDI-144RAB-00-10-191113,
 Description: 1904021-05 PDI-144RAB-00-10-191113 10.97 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

Tetra-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1									

Penta-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1									

Hexa-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	41 Total Hexa-Dioxins	NO	32.38	401.225	77544.120	11.266	MM	1.1456	1.15
2	41 Total Hexa-Dioxins	YES	33.21	385.286	77544.120	0.000	MM	0.0000	1.02

Hepta-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	42 Total Hepta-Dioxins	NO	36.90	5120.620	74558.930	145.881	MM	14.6419	14.64
2	6 1,2,3,4,6,7,8-HpCDD	NO	37.75	4094.898	74558.930	115.682	MM	11.7212	11.72

Tetra-Furans

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	8 2,3,7,8-TCDF	YES	25.29	209.726	107003.336	0.000	db	0.0000	0.34

Penta-Furans function 1

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	44 1st Func. Penta-Furans	NO	27.07	304.896	130632.609	4.770	bb	0.5038	0.50

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191212D2\191212D2_12.qld

Last Altered: Friday, December 27, 2019 11:14:17 Pacific Standard Time

Printed: Friday, December 27, 2019 11:18:25 Pacific Standard Time

Name: 191212D2_12, Date: 13-DEC-2019, Time: 09:42:52, ID: 1904021-05 PDI-144RAB-00-10-191113,
 Description: 1904021-05 PDI-144RAB-00-10-191113 10.97 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

Penta-Furans

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	45 Total Penta-Furans	YES	28.51	298.402	130632.609	0.000	MM	0.0000	0.39
2	9 1,2,3,7,8-PeCDF	NO	29.42	197.024	129569.172	3.125	MM	0.3228	0.32
3	45 Total Penta-Furans	YES	29.66	101.324	130632.609	0.000	MM	0.0000	0.17
4	10 2,3,4,7,8-PeCDF	NO	30.31	104.993	131696.047	1.621	MM	0.1586	0.16
5	45 Total Penta-Furans	NO	30.34	114.162	130632.609	1.812	MM	0.1914	0.19

Hexa-Furans

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	46 Total Hexa-Furans	NO	31.85	123.480	58583.238	2.693	MM	0.2480	0.25
2	46 Total Hexa-Furans	NO	32.00	358.290	58583.238	7.775	db	0.7160	0.72
3	46 Total Hexa-Furans	NO	32.55	459.944	58583.238	9.566	MM	0.8810	0.88
4	11 1,2,3,4,7,8-HxCDF	NO	33.02	391.320	56875.625	8.365	bd	0.7054	0.71

Hepta-Furans

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	15 1,2,3,4,6,7,8-HpCDF	NO	36.49	793.909	50725.941	17.932	MM	1.5781	1.58
2	47 Total Hepta-Furans	NO	37.09	1338.907	45915.605	35.055	MM	3.0657	3.07
3	16 1,2,3,4,7,8,9-HpCDF	YES	38.27	108.110	41105.270	0.000	bb	0.0000	0.21

Vista Analytical Laboratory

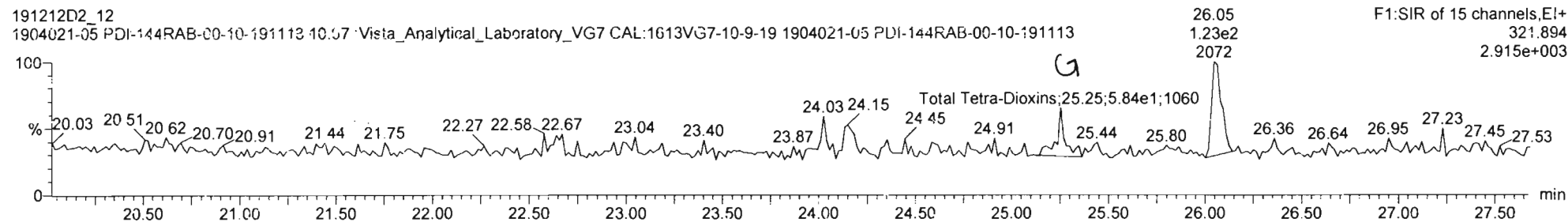
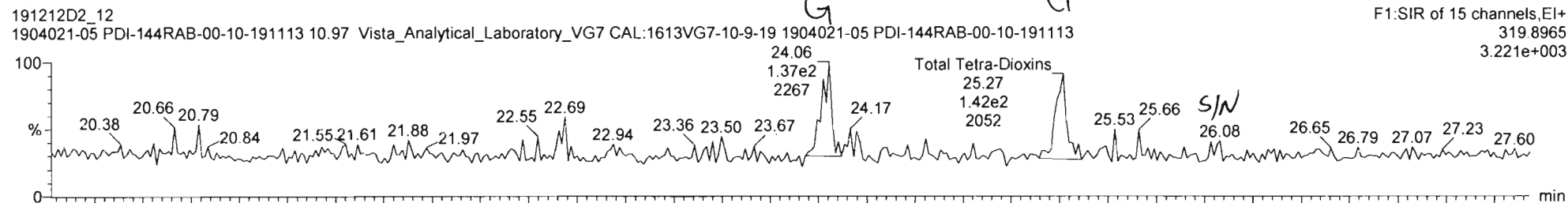
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Last Altered: Tuesday, December 17, 2019 09:53:12 Pacific Standard Time

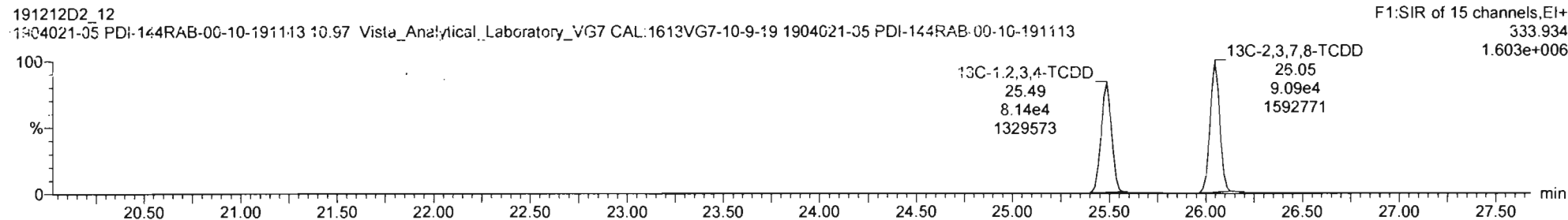
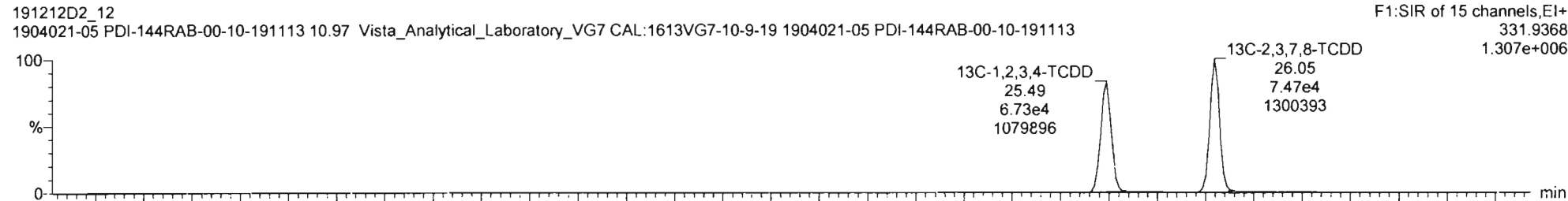
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Total Tetra-Dioxins



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

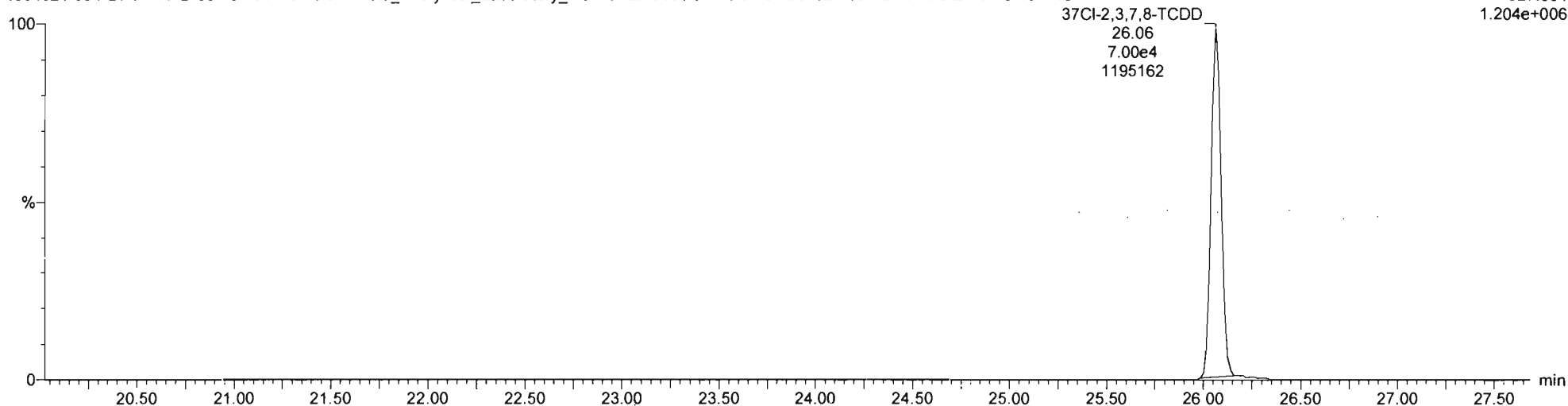


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37Cl-2,3,7,8-TCDD

191212D2_12
1904021-05 PDI-144RAB-00-10-191113 10.97 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19 1904021-05 PDI-144RAB-00-10-191113

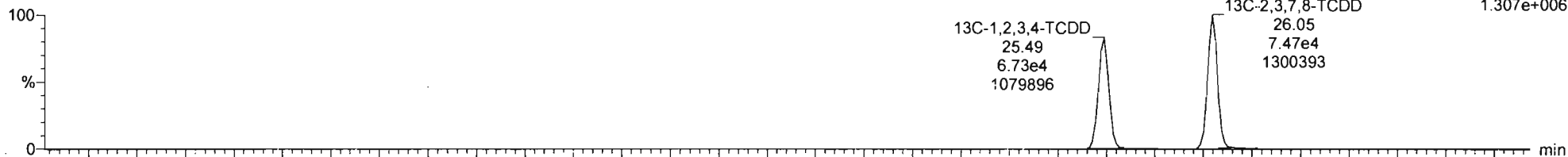
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1.204e+006



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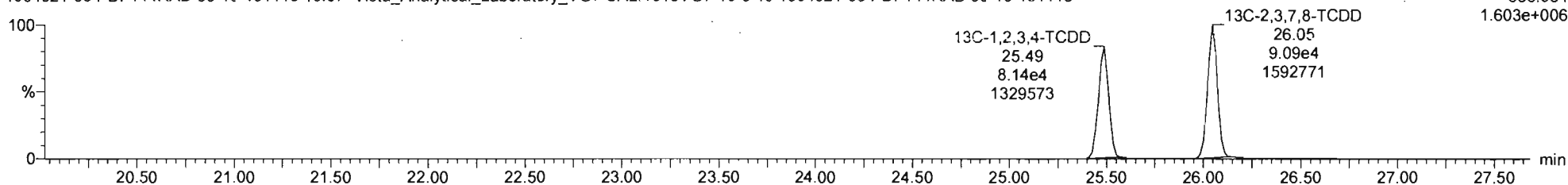
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F1:SIR of 15 channels,EI+
331.9368
1.307e+006



191212D2_12
1904021-05 PDI-144RAB-00-10-191113 10.97 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19 1904021-05 PDI-144RAB-00-10-191113

F1:SIR of 15 channels,EI+
333.934
1.603e+006



Vista Analytical Laboratory

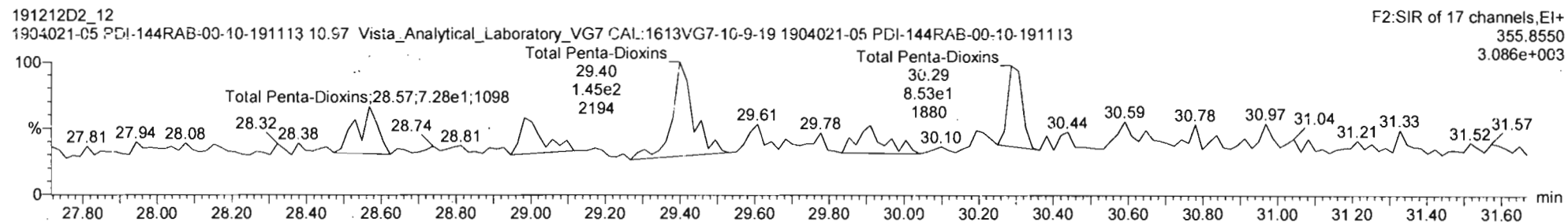
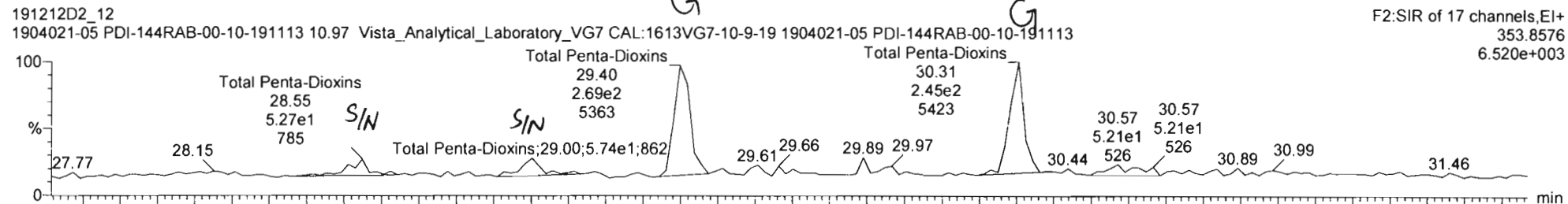
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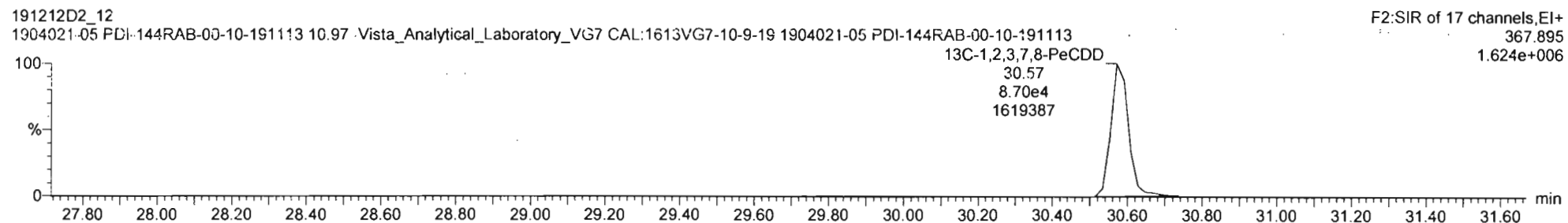
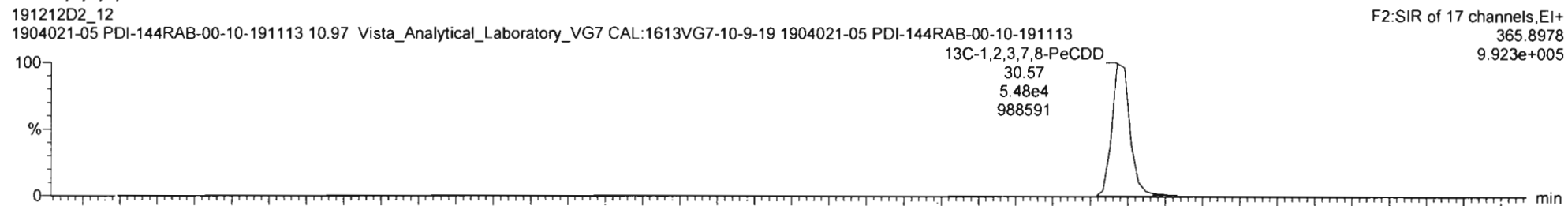
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Total Penta-Dioxins



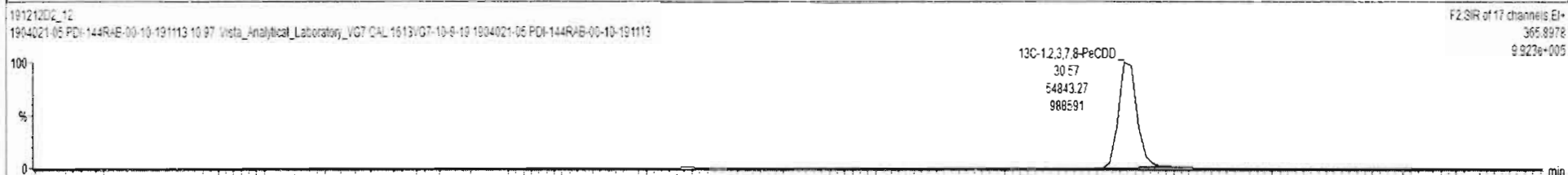
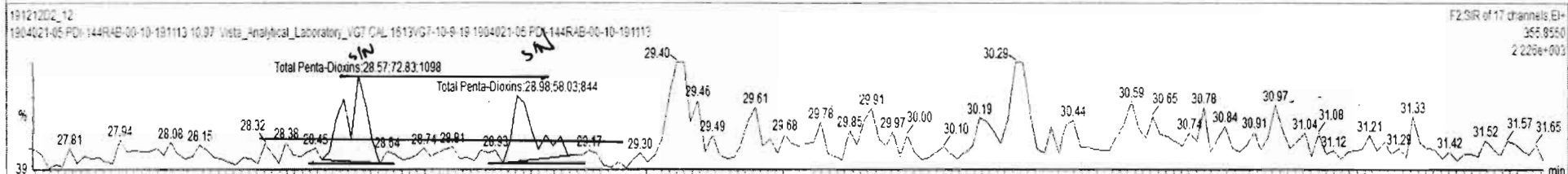
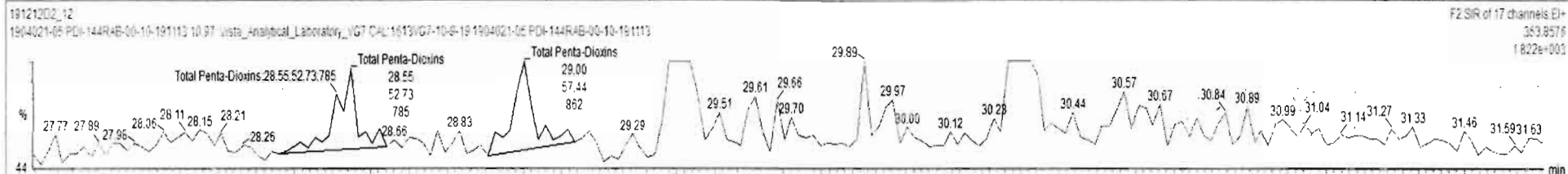
13C-1,2,3,7,8-PeCDD



191212D2_12 - 1904021-05 PDI-144RAB-00-10-191113 - 1904021-05 PDI-144RAB-00-10-191113 10.97 Vista_Analytical_Laboratory_VG7 CAL 1613VG7-10-9-19

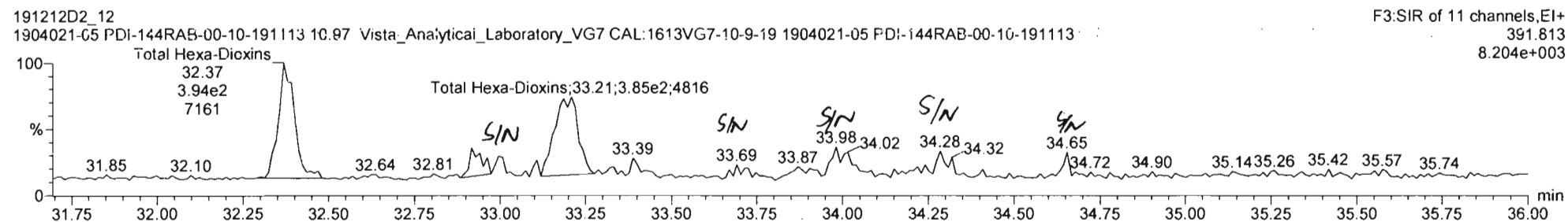
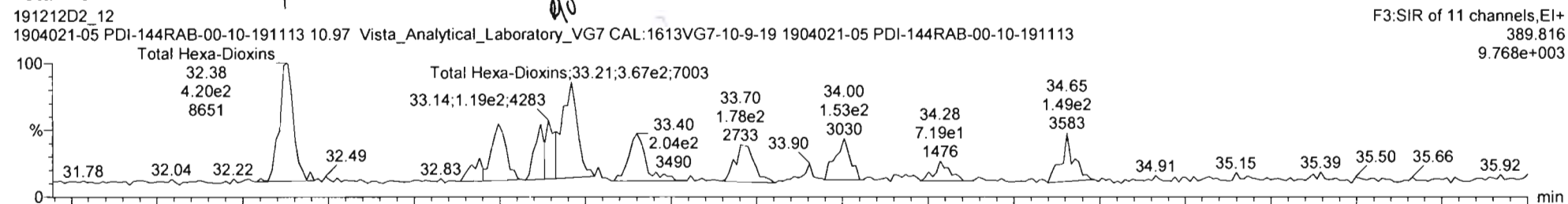
#	Name	Resp	IS Resp	IS#	RA	nly	RRF	wtVol	Pred RT	RT	RRT	Pred.RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	32	13C-1,2,3,4,6,7,8-HpCDF	1.68e5	1.92e5	38	0.43	NO	0.757	10.077	36.51	36.48	1.092	1.093	NO	229.5	116	0.792
33	33	13C-1,2,3,4,7,8,9-HpCDF	1.34e5	1.92e5	38	0.44	NO	0.581	10.077	38.19	38.28	1.146	1.143	NO	237.6	120	1.63
34	34	13C-OCDF	3.25e5	1.92e5	38	0.88	NO	0.685	10.077	41.20	41.21	1.234	1.233	NO	-88.0	123	0.660
35	35	37C-2,3,7,8-TCDD	7.00e4	1.49e5	36			1.158	10.077	26.05	26.06	1.023	1.022	NO	77.99	55.2	0.318
36	36	13C-1,2,3,4-TCDD	1.49e5	1.49e5	36	0.83	NO	1.000	10.077	25.50	25.49	1.000	1.000	NO	198.5	100	0.398
37	37	13C-1,2,3,4-TCDF	2.43e5	2.43e5	37	0.81	NO	1.000	10.077	24.06	24.04	1.000	1.000	NO	198.5	100	0.368
38	38	13C-1,2,3,4,6,9-HxCDF	1.92e5	1.92e5	38	0.51	NO	1.000	10.077	33.42	33.41	1.000	1.000	NO	198.5	100	0.617
39	39	Total Tetra-Dioxins		1.66e5				0.901	10.077	25.50			0.000	NO			0.0799
40	40	Total Penta-Dioxins		1.42e5				0.877	10.077	30.00			0.000	NO	0.2814		0.1441

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	nly	EMPC	Conc.
1	40 Total Penta-Dioxins	30.00	28.55	5.273e1	7.283e1	0.630	0.72	NO	0.20136	0.20136
2	40 Total Penta-Dioxins	30.00	29.00	5.744e1	5.603e1	0.630	0.96	YES	0.15169	0.00000

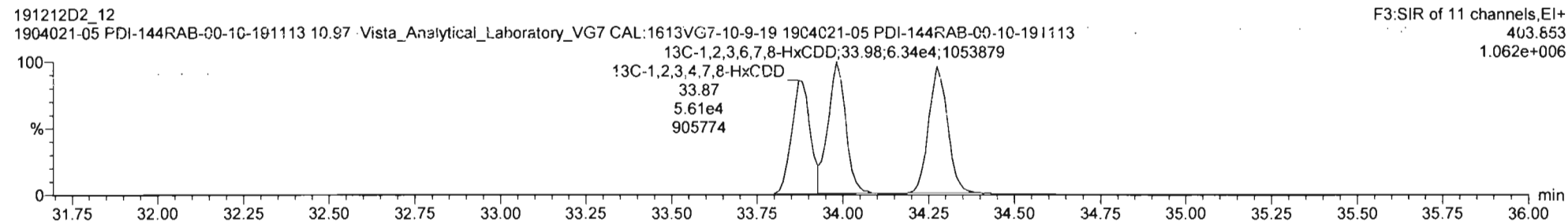
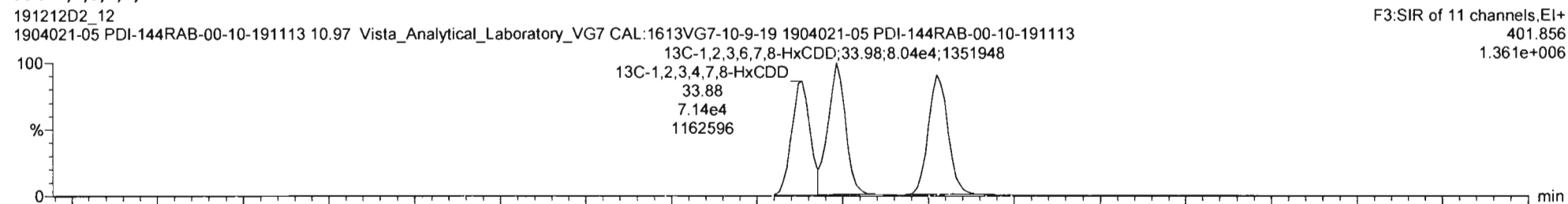


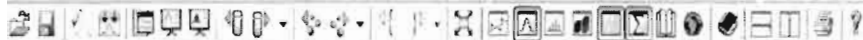
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 Description: 1904021-05 PDI-144RAB-00-10-191113 10.97 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

Total Hexa-Dioxins



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

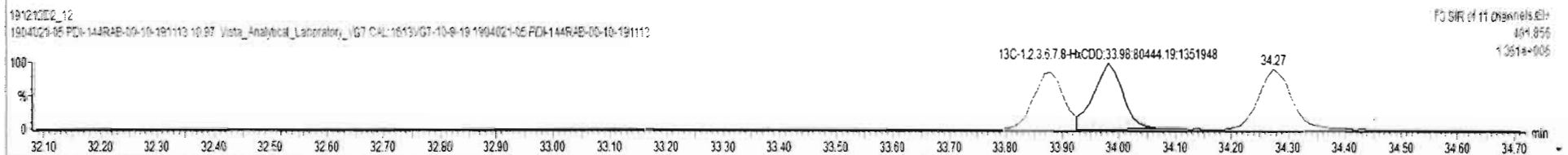
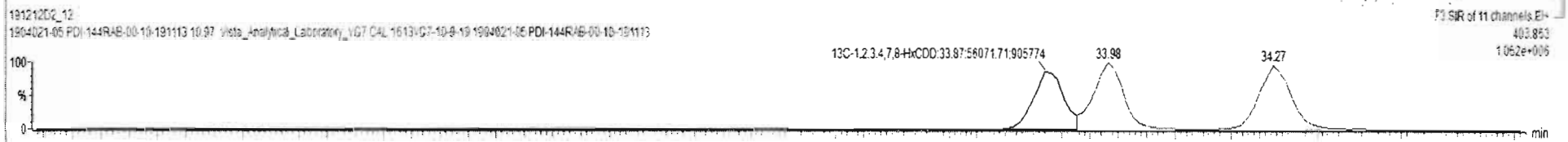
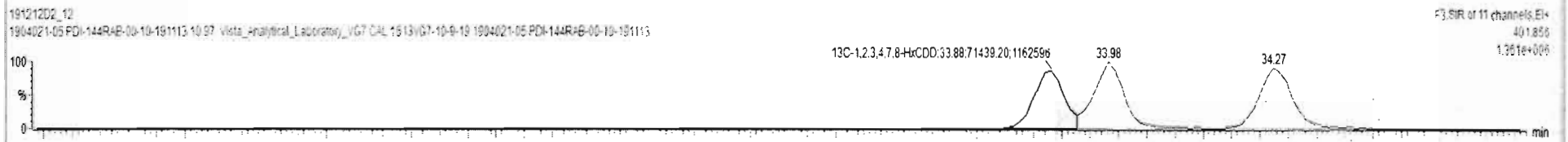
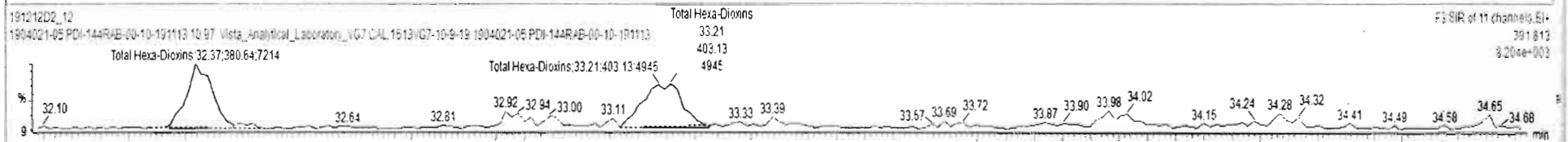
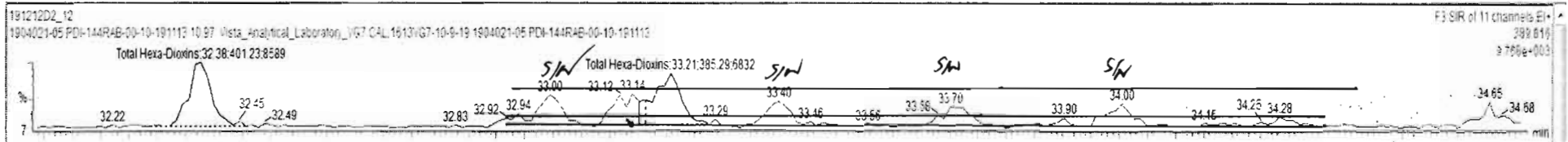




191212D2_12 - 1904021-05 PDI-144RAB-00-10-191113 - 1904021-05 PDI-144RAB-00-10-191113 10.97 Vista_Analytical_Laboratory_VG7 CAL 1613VG7-10-9-19

#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wt/vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC
41	Total Hexa-Dioxins	0.00e0					0.976	10.077	33.80			0.000	NO	1.146		0.253	2.165
42	Total Hepta-Dioxins	1.42e5					0.889	10.077	37.75			0.000	NO	26.10		0.374	26.31
43	Total Tetra-Furans	2.41e5					0.943	10.077	24.00			0.000	NO	0.0000		0.0675	0.6293
44	1st Func. Penta-Furans	0.00e0					0.940	10.077	27.63			0.000	NO	0.5038		0.0580	0.5038
45	Total Penta-Furans	0.00e0					0.940	10.077	30.00			0.000	NO	0.3729		0.109	1.264
46	Total Hexa-Furans	0.00e0					1.078	10.077	33.00			0.000	NO	2.572		0.199	2.996
47	Total Hepta-Furans	0.00e0					1.135	10.077	37.75			0.000	NO	4.656		0.176	4.666
48	PFX1																
49	PFX2																

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	41 Total Hexa-Dioxins	33.80	32.38	4.012e2	3.806e2	1.240	1.05	NO	1.1456	1.1456
2	41 Total Hexa-Dioxins	33.80	33.21	3.653e2	4.031e2	1.240	0.96	YES	1.0196	0.00000



Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Tuesday, December 17, 2019 09:53:12 Pacific Standard Time

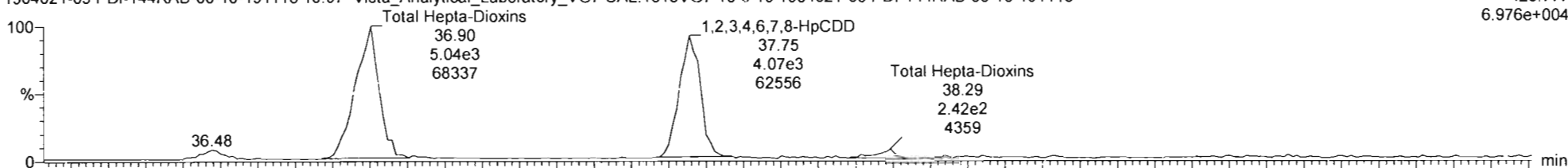
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Total Hepta-Dioxins

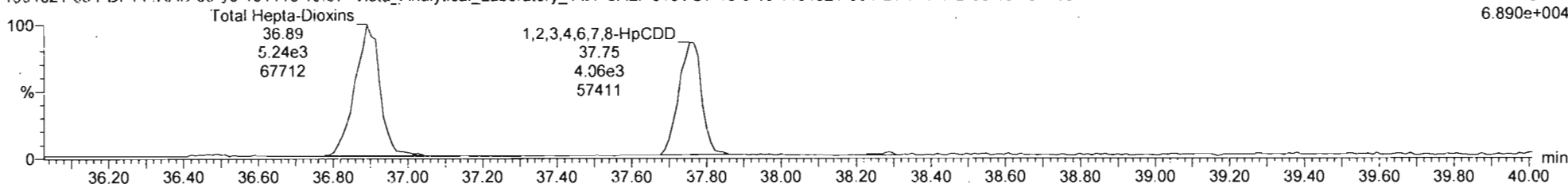
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F4:SIR of 11 channels, EI+ 423.777 6.976e+004



191212D2_12 1904021-05 PDI-144RAB-00-10-191113 10.97 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19 1904021-05 PDI-144RAB-00-10-191113

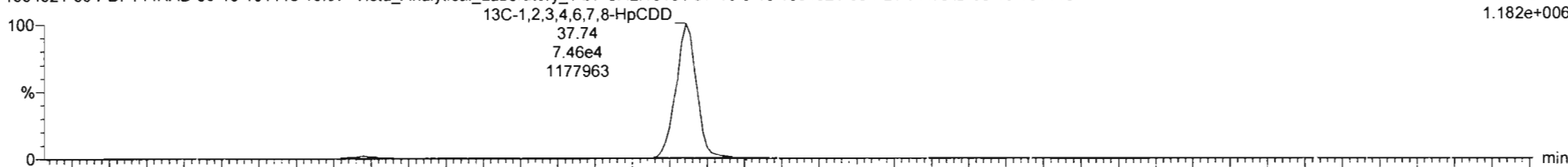
F4:SIR of 11 channels, EI+ 425.774 6.890e+004



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

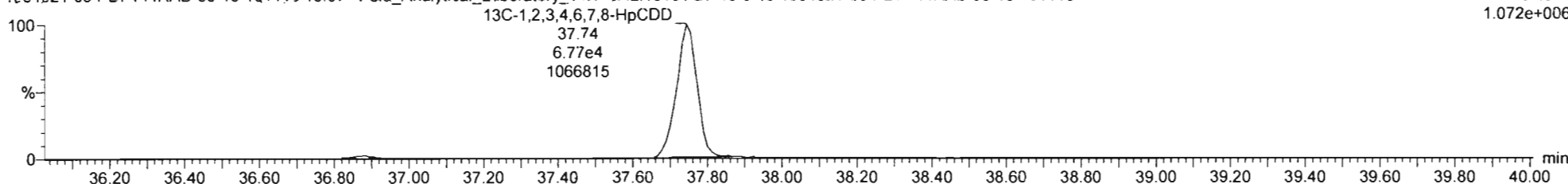
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F4:SIR of 11 channels, EI+ 435.817 1.182e+006



191212D2_12 1904021-05 PDI-144RAB-00-10-191113 10.97 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19 1904021-05 PDI-144RAB-00-10-191113

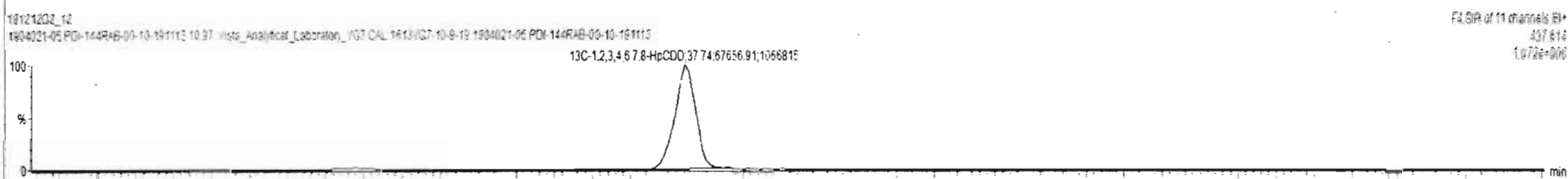
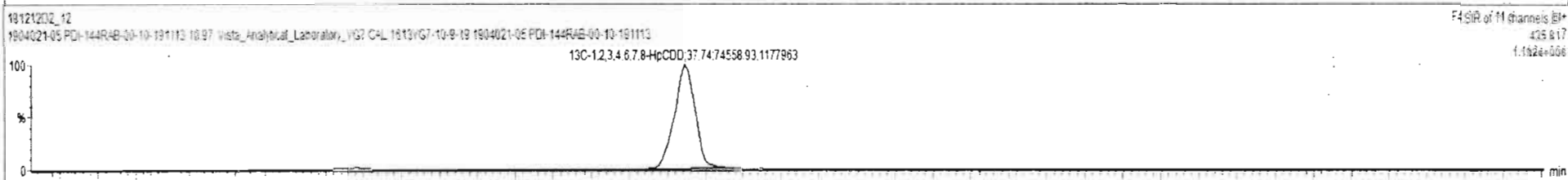
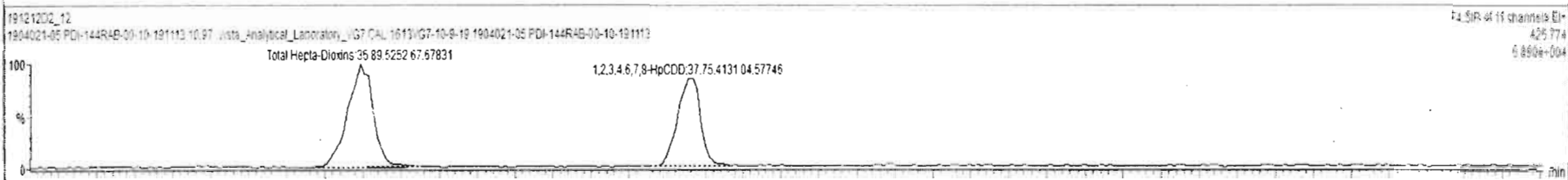
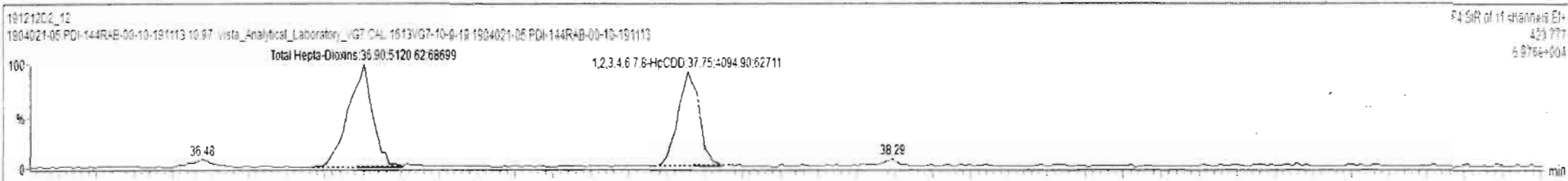
F4:SIR of 11 channels, EI+ 437.814 1.072e+006



19121202_12 - 1904021-05 PDI-144RAB-00-10-191113 - 1904021-05 PDI-144RAB-00-10-191113 10.97 Vista_Analytical_Laboratory_VG7 CAL 1613VG7-10-9-19

#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wt/vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC
41	Total Hexa-Dioxins	0.00e0					0.976	10.077	33.80			0.000	NO	1.142	0.253	2.165	
42	Total Hepta-Dioxins	1.42e5					0.989	10.077	37.75			0.000	NO	26.36	0.374	26.36	
43	Total Tetra-Furans	2.41e5					0.943	10.077	24.00			0.000	NO	0.0000	0.0679	0.6293	
44	1st Func. Penta-Furans	0.00e0					0.940	10.077	27.63			0.000	NO	0.5038	0.0560	0.5038	
45	Total Penta-Furans	0.00e0					0.940	10.077	30.00			0.000	NO	0.3739	0.109	1.264	
46	Total Hexa-Furans	0.00e0					1.078	10.077	33.00			0.000	NO	2.572	0.195	2.996	
47	Total Hepta-Furans	0.00e0					1.135	10.077	37.75			0.000	NO	4.656	0.176	4.866	
48	PFK1																

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	42 Total Hepta-Dioxins	37.75	36.90	5.121e3	5.263e3	1.040	0.97	NO	14.642	14.642
2	6 1,2,3,4,6,7,8-HpCDD	37.75	37.75	4.095e3	4.131e3	1.040	0.96	NO	11.721	11.721



Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Tuesday, December 17, 2019 09:53:12 Pacific Standard Time

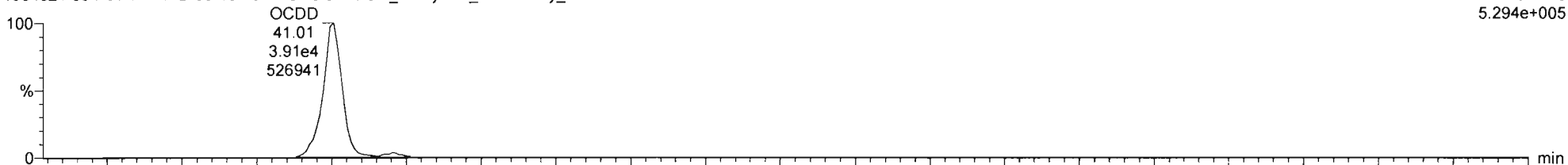
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Description: 1904021-05 PDI-144RAB-00-10-191113 10.97 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

OCDD

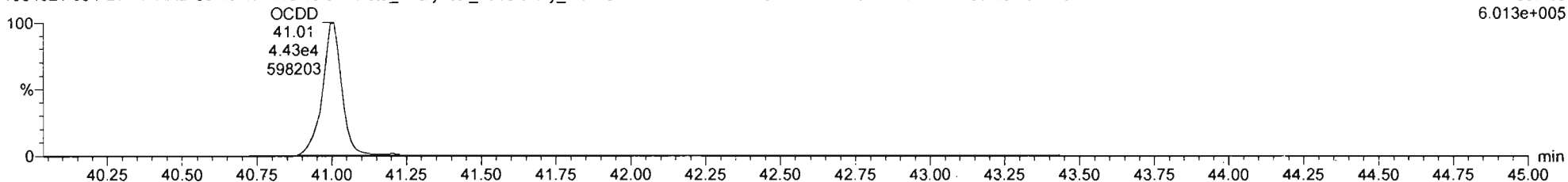
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1904021-05 PDI-144RAB-00-10-191113 10.97 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19 1904021-05 PDI-144RAB-00-10-191113

F5:SIR of 11 channels,EI+
457.738
5.294e+005



191212D2_12
1904021-05 PDI-144RAB-00-10-191113 10.97 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19 1904021-05 PDI-144RAB-00-10-191113

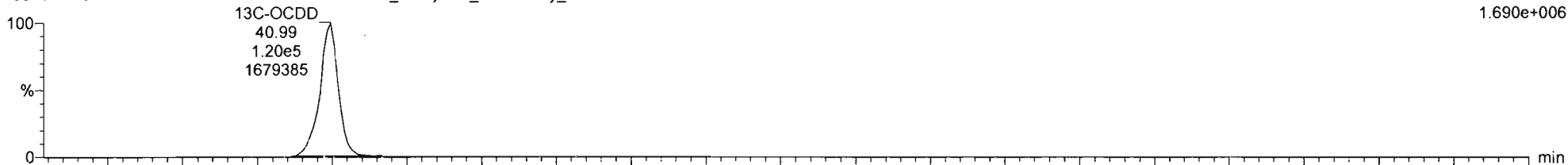
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13C-OCDD

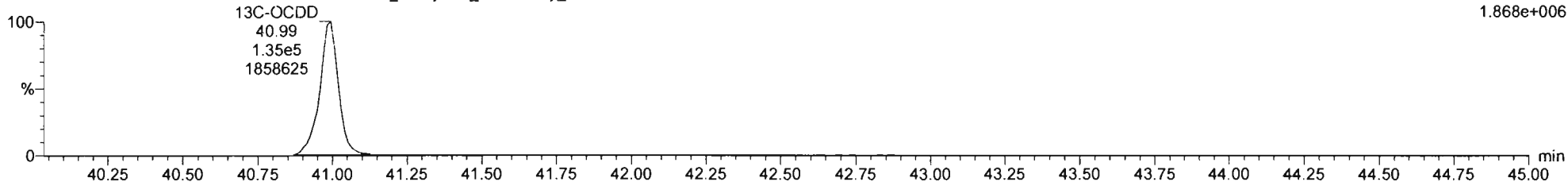
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F5:SIR of 11 channels,EI+
469.778
1.690e+006



191212D2_12
1904021-05 PDI-144RAB-00-10-191113 10.97 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19 1904021-05 PDI-144RAB-00-10-191113

F5:SIR of 11 channels,EI+
471.775
1.868e+006



Vista Analytical Laboratory

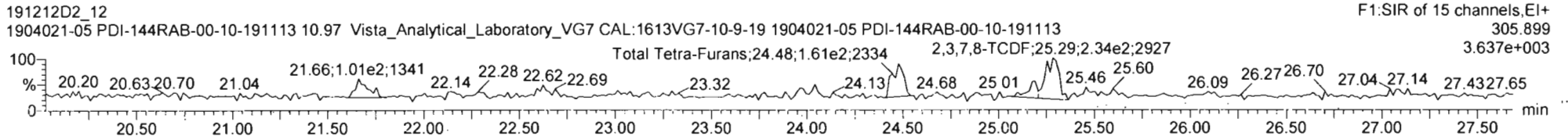
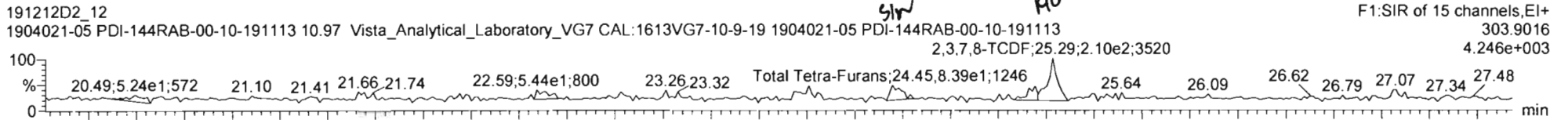
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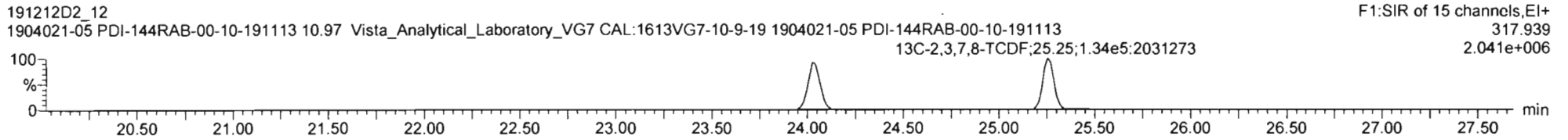
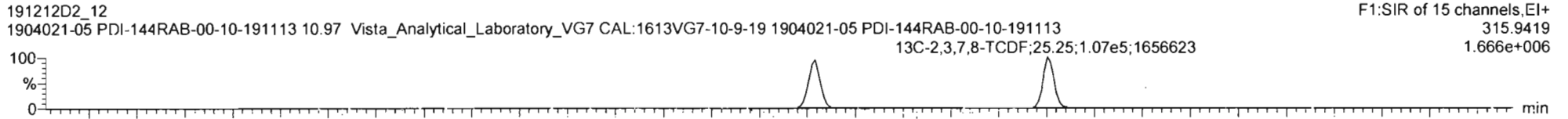
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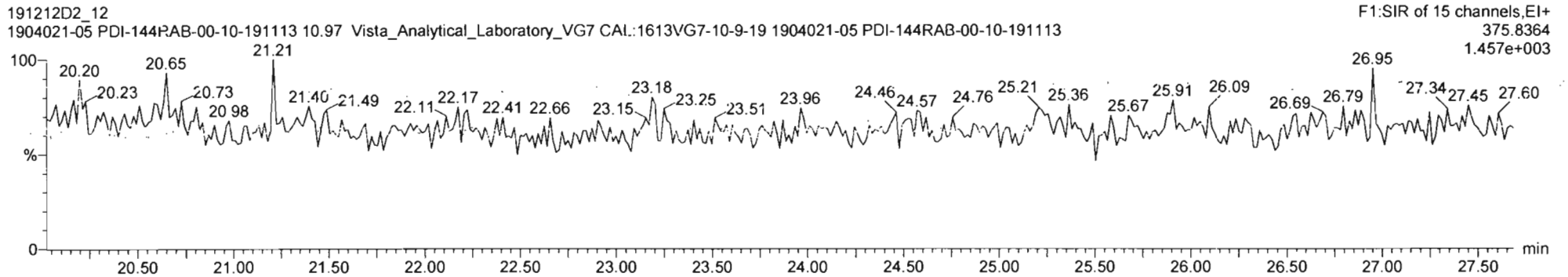
Total Tetra-Furans



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



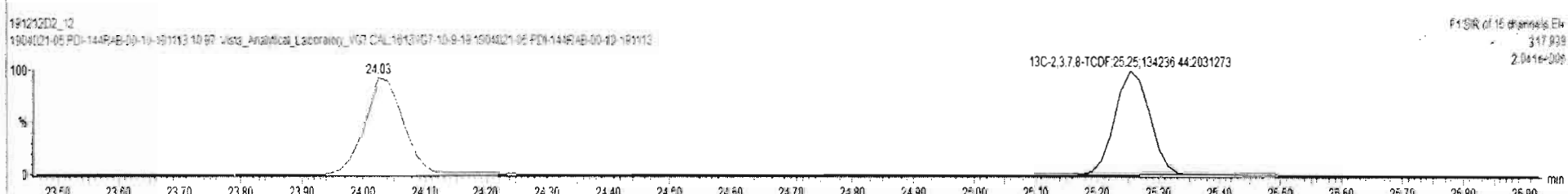
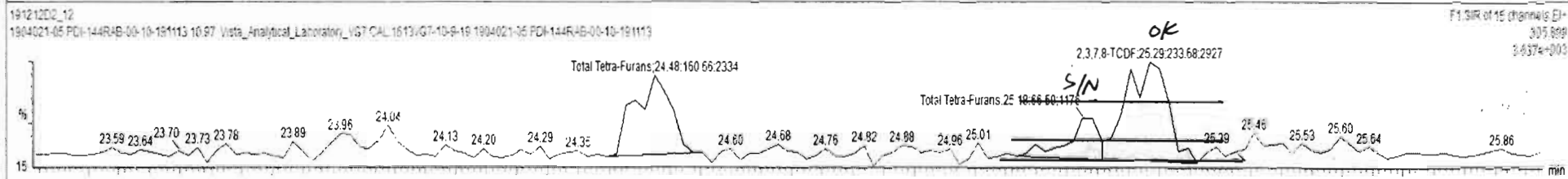
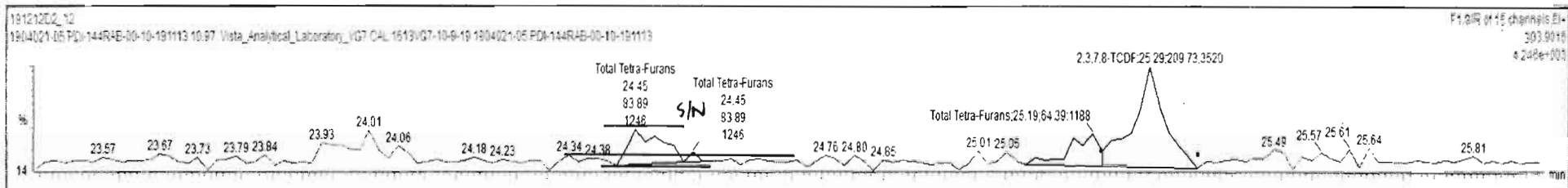
DPE1



19121202_12 - 1904021-05 PDI-144RAB-00-10-191113 - 1904021-05 PDI-144RAB-00-10-191113 10.97 Vista_Analytical_Laboratory_VG7 CAL 1613VG7-10-9-19

#	Name	Resp	IS Reso	IS#	RA	n/y	RRF	wt/wt	Pred RT	RT	RRT	Pred.RRT	Check RRT	Conc	%Rec	DL	EMPC
41	Total Hexa-Dioxins	0.00e0					0.976	10.077	33.80			0.000	NO	1.148	0.253	2.165	
42	Total Hepta-Dioxins	1.42e5					0.989	10.077	37.75			0.000	NO	26.36	0.374	26.36	
43	Total Tetra-Furans	2.41e5					6.943	10.077	24.00			0.000	NO	0.0000	0.0679	0.6293	
44	1st Func. Penta-Furans	0.00e0					0.940	10.077	27.63			0.000	NO	0.5036	0.0580	0.5036	
45	Total Penta-Furans	0.00e0					0.940	10.077	30.00			0.000	NO	0.3759	0.109	1.264	
46	Total Hexa-Furans	0.00e0					1.078	10.077	33.00			0.000	NO	2.572	0.199	2.996	
47	Total Hepta-Furans	0.00e0					1.135	10.077	37.75			0.000	NO	4.556	0.178	4.866	
48	PKF1																

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	43 Total Tetra-Furans	24.00	24.45	8.389e1	1.607e2	0.770	0.52	YES	0.16626	0.00000
2	43 Total Tetra-Furans	24.00	25.19	6.439e1	6.659e1	0.770	0.97	YES	0.10295	0.00000

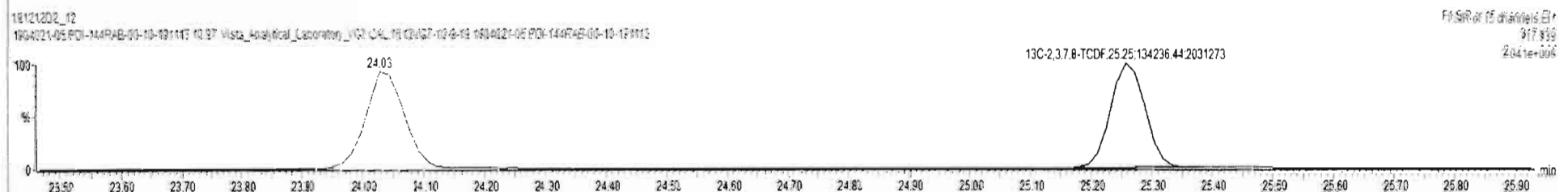
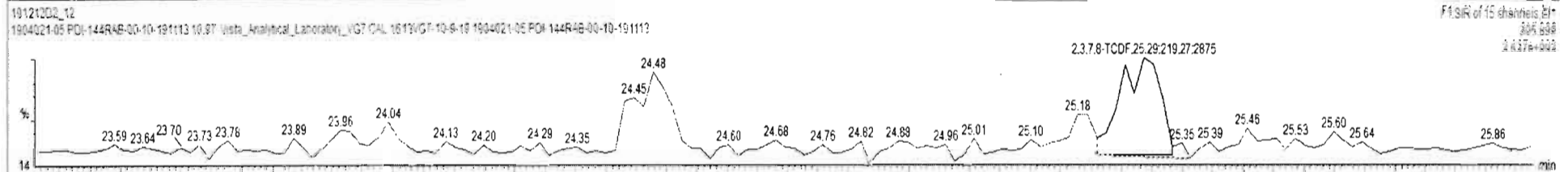
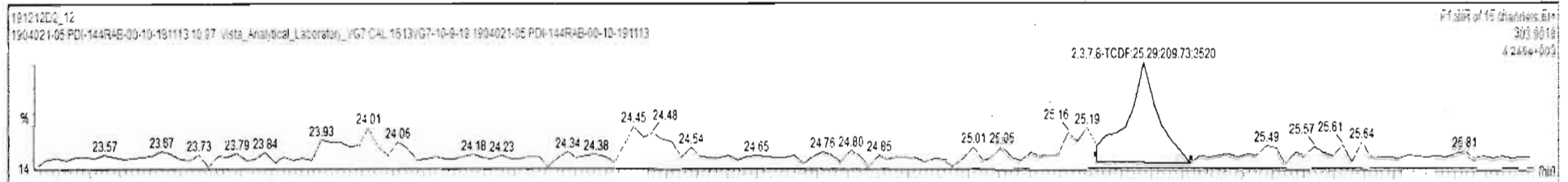




191212D2_12 - 1904021-05 PDI-144RAB-00-10-191113 - 1904021-05 PDI-144RAB-00-10-191113 10.97 Vista_Analytical_Laboratory_VG7 CAL 1613VG7-10-9-19

#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wtVol	Pred RT	RT	RRT	Pred.RRT	Check RRT	Conc.	%Rec	DL	EMPC
41	Total Hexa-Dioxins	0.00e0					0.976	10.077	33.80			0.000	NO	1.146	0.253	2.165	
42	Total Hepta-Dioxins	1.42e5					0.989	10.077	37.75			0.000	NO	26.36	0.374	26.36	
43	Total Tetra-Furans	2.41e5					0.943	10.077	24.00			0.000	NO	0.6006	0.0679	0.3361	
44	1st Func. Penta-Furans	0.00e0					0.940	10.077	27.63			0.000	NO	0.5038	0.0580	0.5038	
45	Total Penta-Furans	0.00e0					0.940	10.077	30.00			0.000	NO	0.3739	0.109	1.264	
46	Total Hexa-Furans	0.00e0					1.078	10.077	33.00			0.000	NO	2.572	0.195	2.596	
47	Total Hepta-Furans	0.00e0					1.135	10.077	37.75			0.000	NO	4.656	0.178	4.866	
48	PFK1																
49	2010CV7																

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	6 2,3,7,8-TCDF	25.28	25.29	2.097e2	2.193e2	0.770	0.96	YES	0.33607	0.60000



Vista Analytical Laboratory

Dataset: Untitled

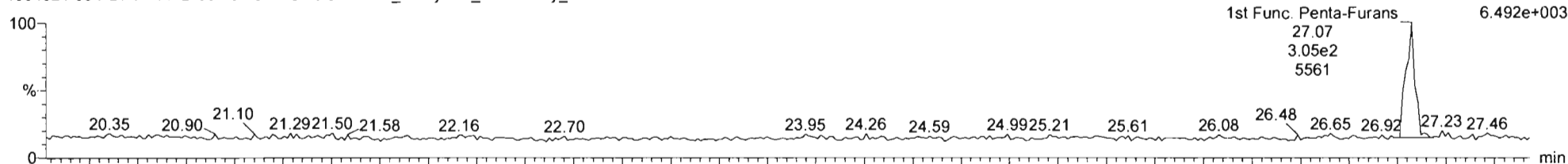
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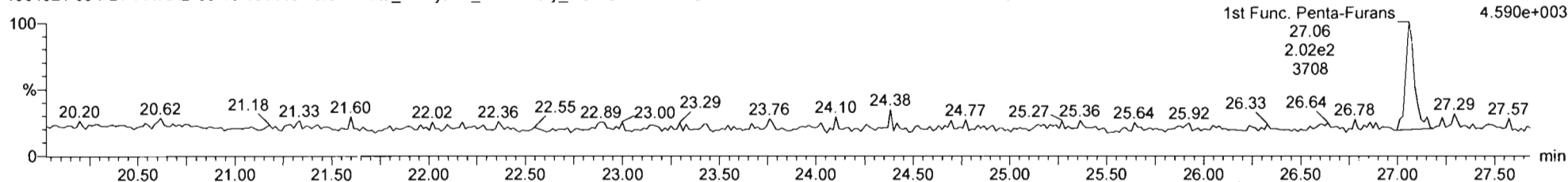
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Description: 1904021-05 PDI-144RAB-00-10-191113 10.97 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

1st Func. Penta-Furans

191212D2_12
1904021-05 PDI-144RAB-00-10-191113 10.97 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19 1904021-05 PDI-144RAB-00-10-191113

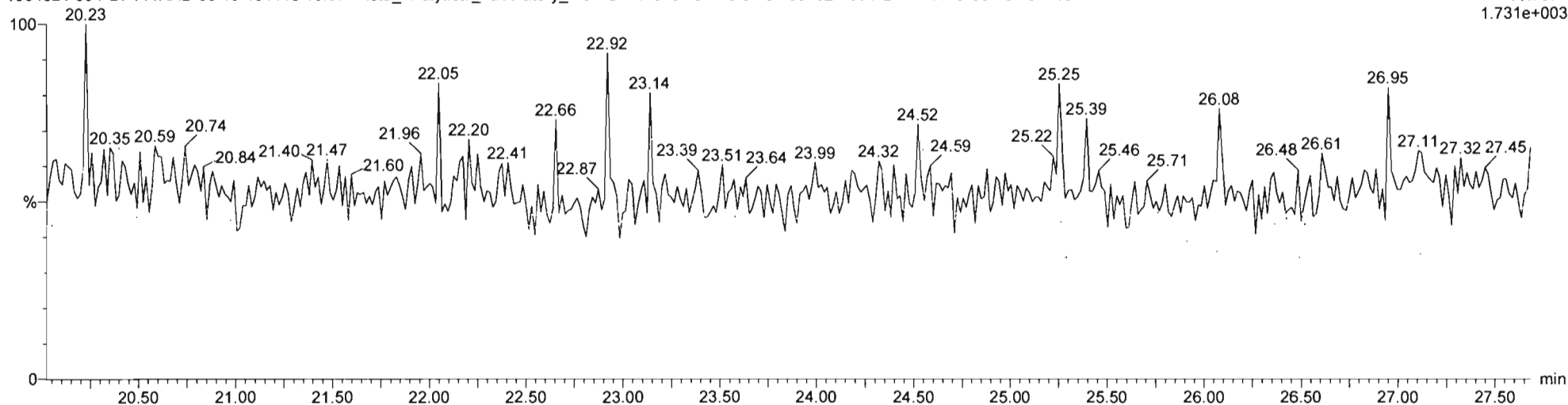


191212D2_12
1904021-05 PDI-144RAB-00-10-191113 10.97 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19 1904021-05 PDI-144RAB-00-10-191113



DPE6

191212D2_12
1904021-05 PDI-144RAB-00-10-191113 10.97 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19 1904021-05 PDI-144RAB-00-10-191113



Vista Analytical Laboratory

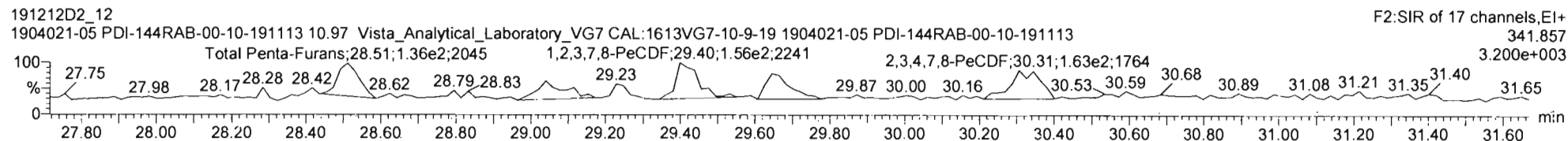
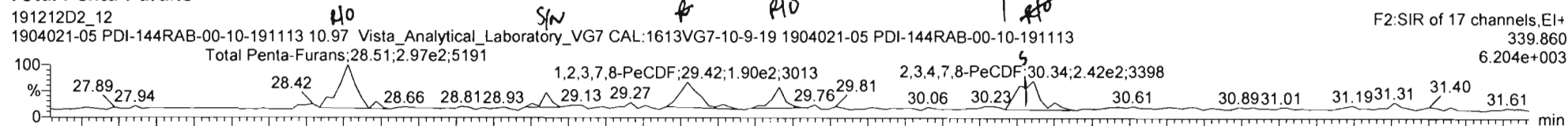
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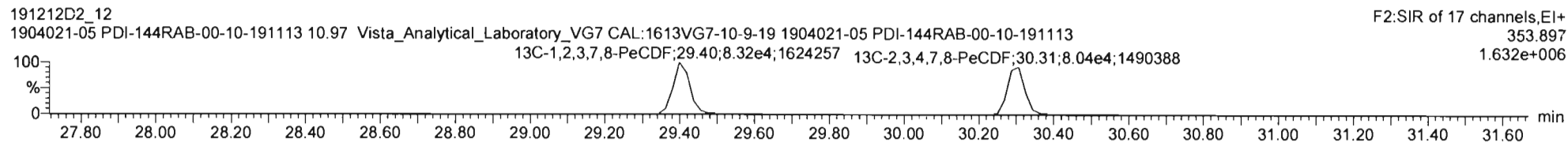
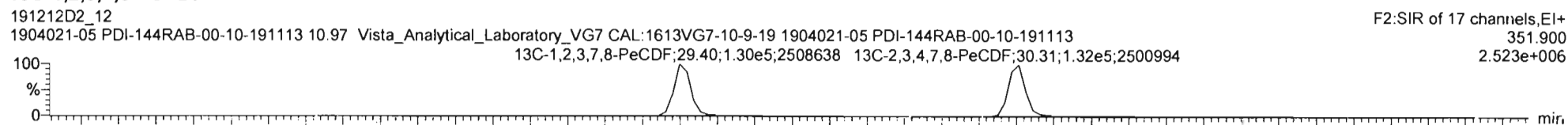
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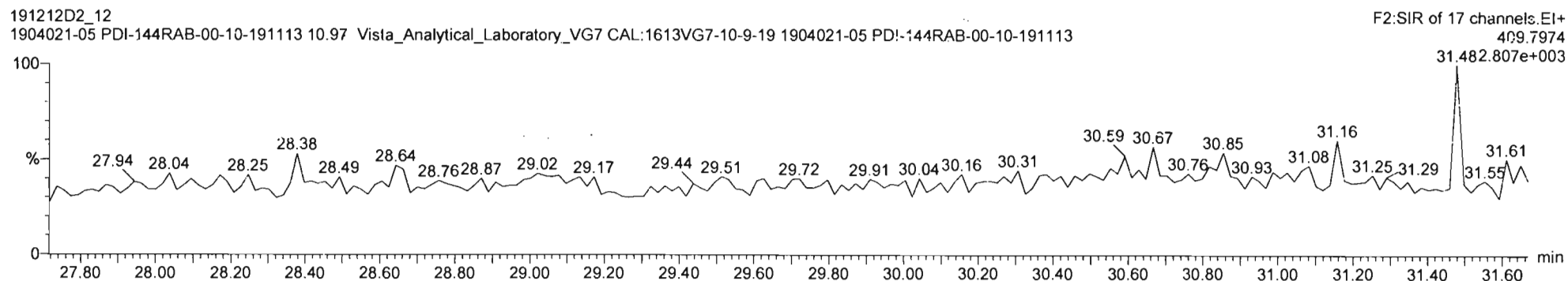
Total Penta-Furans



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



DPE2

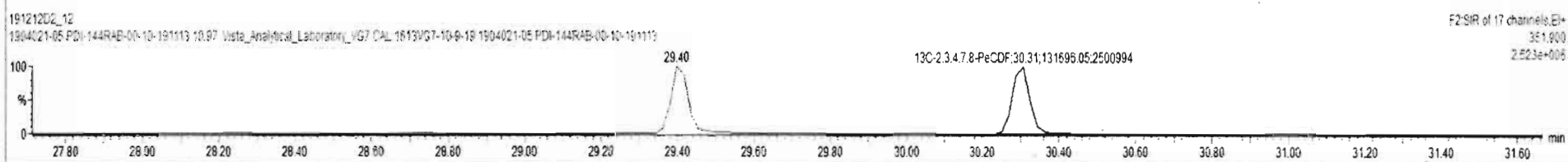
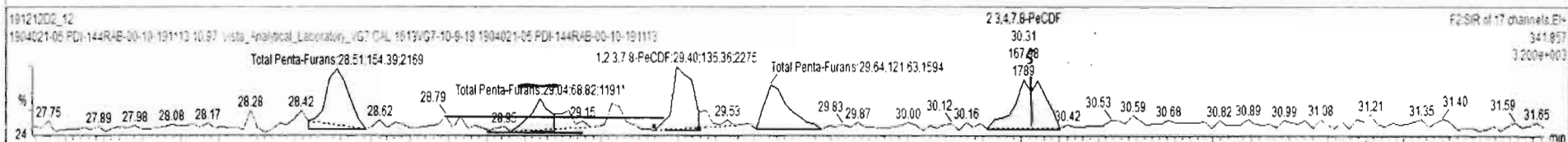
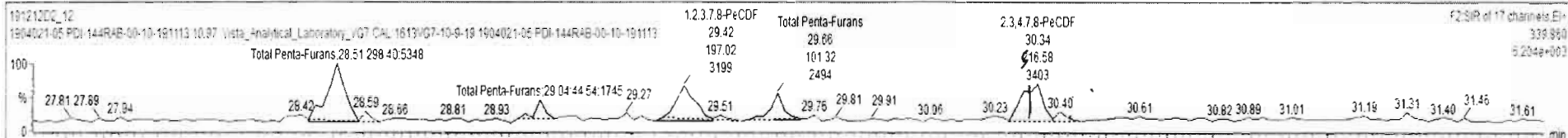




191212D2_12 - 1904021-05 PDI-144RAB-00-10-191113 - 1904021-05 PDI-144RAB-00-10-191113 10.97 Vista_Analytical_Laboratory_VG7 CAL 1613VG7-10-9-19

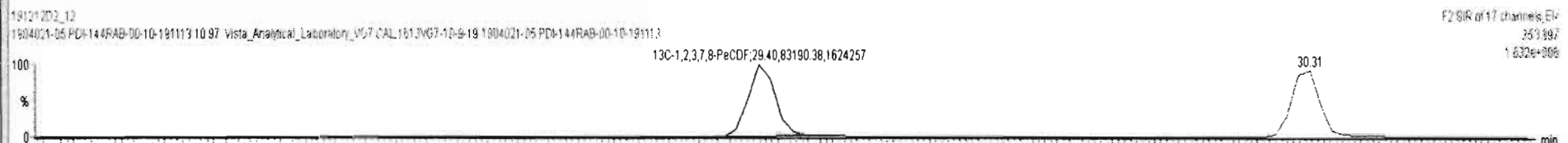
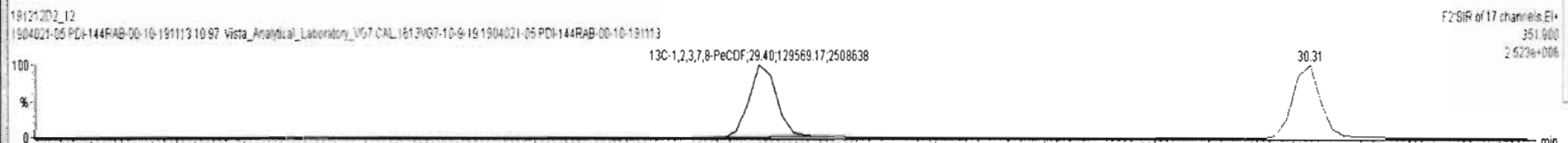
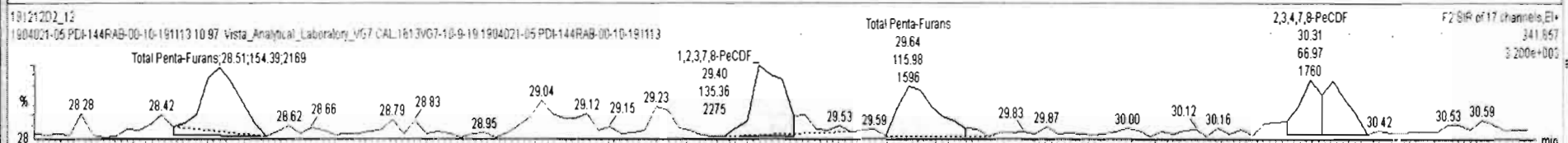
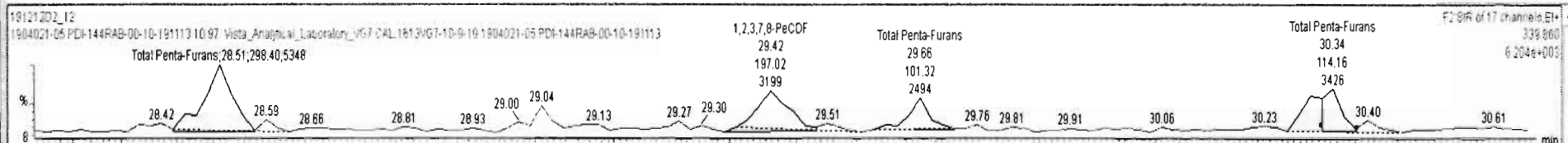
#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wtVol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	EMPC
41	Total Hexa-Dioxins	0.00e0					0.976	19.077	33.80			0.000	NO	1.146	0.253	2.165	
42	Total Hepta-Dioxins	1.42e5					0.989	10.077	37.75			0.000	NO	26.36	0.374	26.36	
43	Total Tetra-Furans	2.41e5					0.943	10.077	24.00			0.000	NO	0.0000	0.0079	0.3361	
44	1st Func. Penta-Furans	0.00e0					0.940	10.077	27.63			0.000	NO	0.5038	0.0580	0.5038	
45	Total Penta-Furans	0.00e0					0.940	10.077	30.00			0.000	NO	0.3226	0.109	1.281	
46	Total Hexa-Furans	0.00e0					1.078	10.077	33.00			0.000	NO	2.572	0.159	2.966	
47	Total Hepta-Furans	0.00e0					1.135	10.077	37.75			0.000	NO	4.656	0.178	4.866	
48	PK1																
49	PK2																

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	45 Total Penta-Furans	30.00	28.51	2.90462	1.54462	1.550	1.93	YES	0.39145	0.00000
2	45 Total Penta-Furans	30.00	29.04	4.454e1	1.089e2	1.550	0.42	YES	0.072861	0.00000



#	Name	Resp	IS Resp	IS#	RA	nly	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	Check RRT	Conc.	%Rec	DL	EMPC
40	Total Penta-Dioxins		1.42e5				0.872	10.077	30.00			0.000	NO			0.0794	
41	Total Hexa-Dioxins		0.00e0				0.976	10.077	33.80			0.000	NO	1.146		0.253	2.165
42	Total Hepto-Dioxins		1.42e5				0.989	10.077	37.75			0.000	NO	26.36		0.374	26.36
43	Total Tetra-Furans		2.41e5				0.943	10.077	24.00			0.000	NO	0.0000		0.0679	0.3361
44	1st Func. Penta-Furans		0.00e0				0.940	10.077	27.63			0.000	NO	0.5038		0.0580	0.5038
45	Total Penta-Furans		0.00e0				0.940	10.077	30.00			0.000	NO	0.6728		0.109	1.230
46	Total Hexa-Furans		0.00e0				1.078	10.077	33.00			0.000	NO	2.550		0.199	2.550

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	Pred.RA	RA	nly	EMPC	Conc.
1	45 Total Penta-Furans	30.00	28.51	2.984e2	1.544e2	1.550	1.93	YES	0.39145	0.00000
2	9 1,2,3,7,8-PeCDF	29.42	29.42	1.970e2	1.354e2	1.550	1.46	NO	0.32285	0.32285
3	45 Total Penta-Furans	30.00	28.66	1.013e2	1.160e2	1.550	0.87	YES	0.16574	0.00000
4	10 2,3,4,7,8-PeCDF	30.31	30.31	1.050e2	6.697e1	1.550	1.57	NO	0.15856	0.15856
5	45 Total Penta-Furans	30.00	30.34	1.142e2	7.830e1	1.550	1.46	NO	0.19136	0.19136



Vista Analytical Laboratory

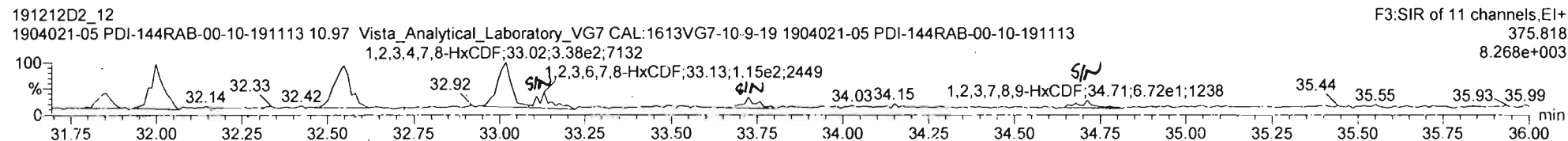
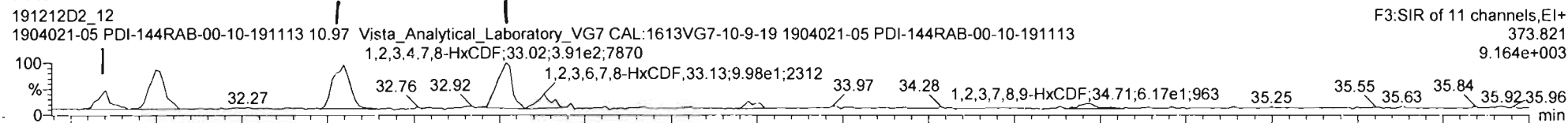
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Last Altered: Tuesday, December 17, 2019 09:53:12 Pacific Standard Time

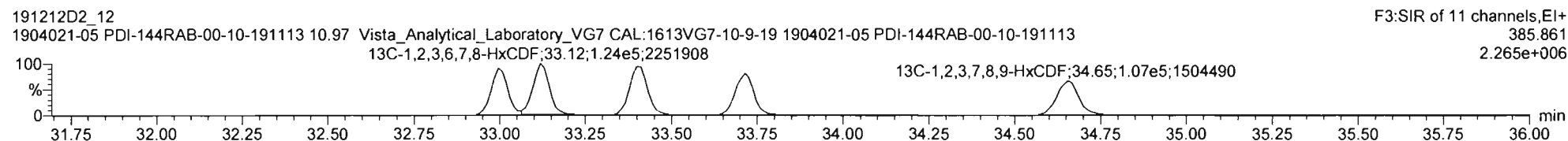
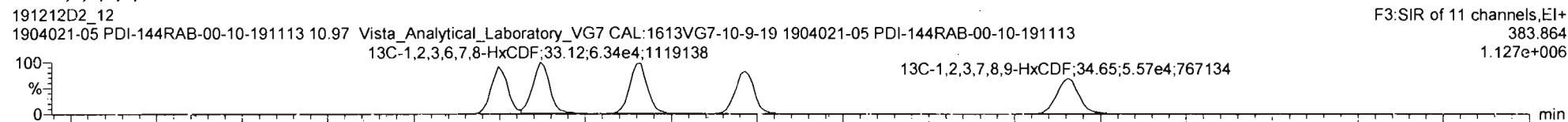
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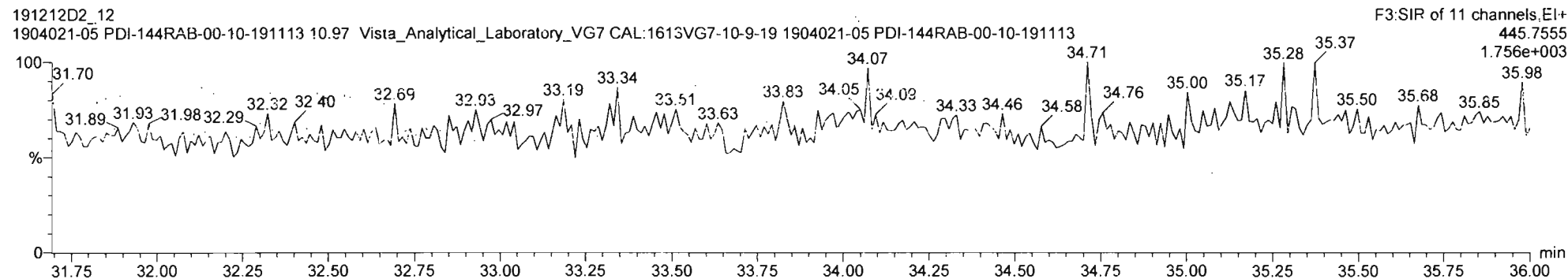
Total Hexa-Furans



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



DPE3

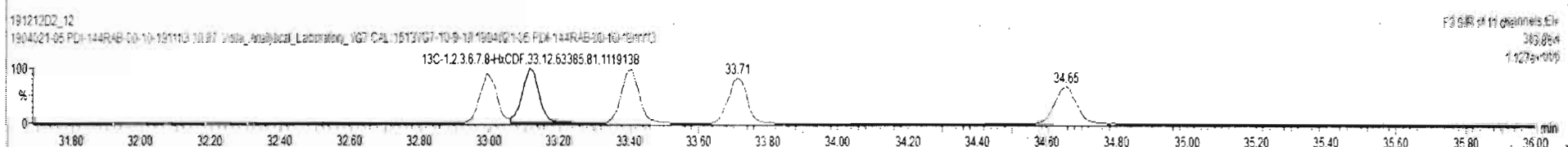
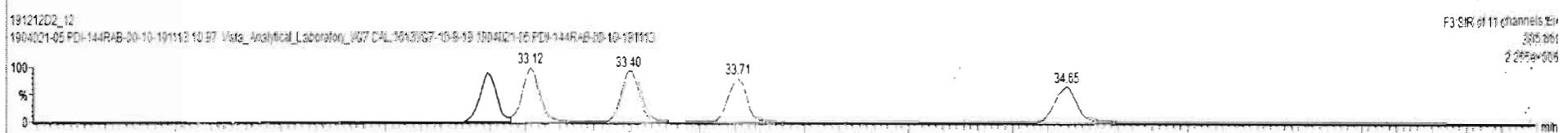
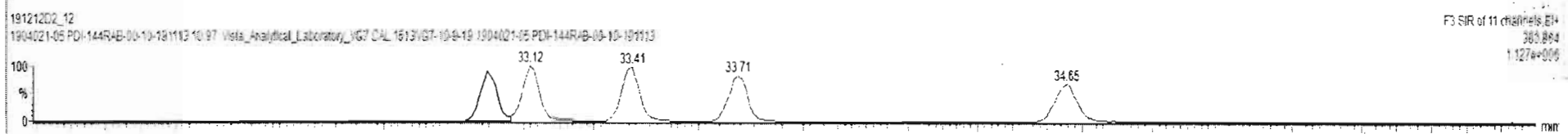
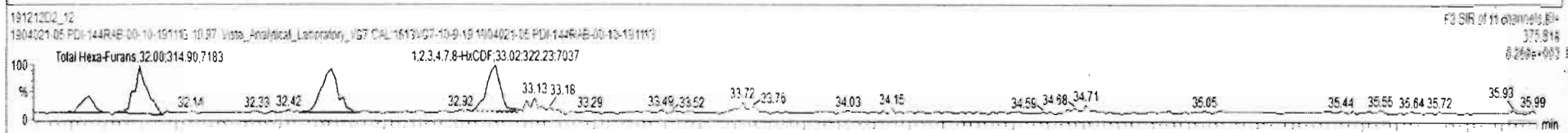
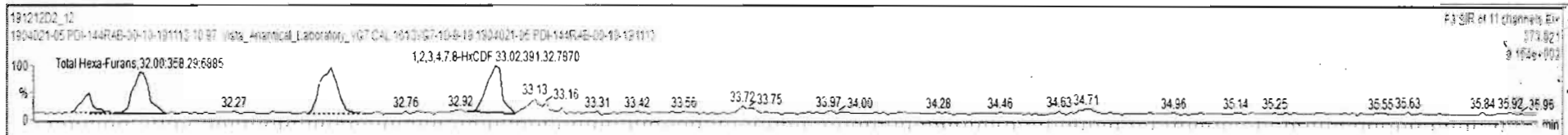




191212D2_12 - 1904021-05 PDI-144RAB-00-10-191113 - 1904021-05 PDI-144RAB-00-10-191113 10.97 Vista_Analytical_Laboratory_VG7 CAL 1613VG7-10-9-19

#	Name	Resp	IS Resp	IS4	RA	n/y	RRF	wt/wvl	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	EMPC
41	Total Hexa-Dioxins	0.00e0					0.976	10.077	33.80			0.000	NO	1.146	0.253	2.185	
42	Total Hepta-Dioxins	1.42e5					0.989	10.077	37.75			0.000	NO	26.36	0.074	26.36	
43	Total Tetra-Furans	2.41e5					0.943	10.077	24.00			0.000	NO	0.000	0.0679	0.3381	
44	1st Func. Penta-Furans	0.00e0					0.940	10.077	27.83			0.000	NO	0.5038	0.0580	0.1928	
45	Total Penta-Furans	0.00e0					0.940	10.077	30.00			0.000	NO	0.3225	0.109	1.205	
46	Total Hexa-Furans	0.00e0					1.078	10.077	33.00			0.000	NO	2.556	0.199	2.550	
47	Total Hepta-Furans	0.00e0					-1.135	10.077	37.75			0.000	NO	4.656	0.178	4.866	
48	DFK1																
49	DFK2																

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	46 Total Hexa-Furans	33.00	31.85	1.235e2	1.097e2	1.240	1.13	NO	0.24799	0.24799
2	46 Total Hexa-Furans	33.00	32.09	3.583e2	3.149e2	1.240	1.14	NO	0.71597	0.71597
3	46 Total Hexa-Furans	33.00	32.55	4.599e2	3.684e2	1.240	1.25	NO	0.88096	0.88096
4	11 1,2,3,4,7,8-HxCDF	33.00	33.02	3.913e2	3.222e2	1.240	1.21	NO	0.70543	0.70543



Vista Analytical Laboratory

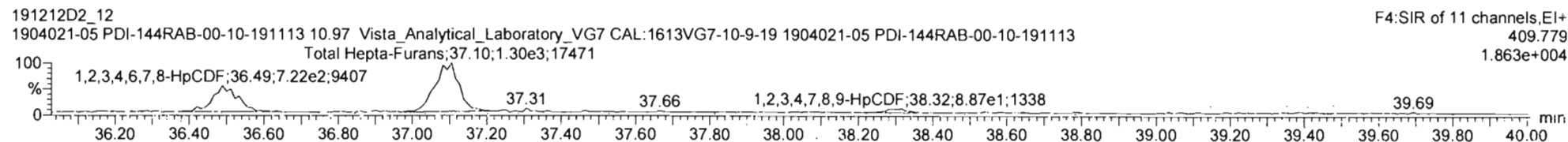
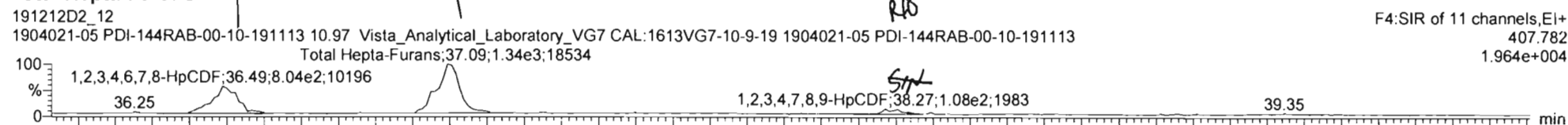
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Last Altered: Tuesday, December 17, 2019 09:53:12 Pacific Standard Time

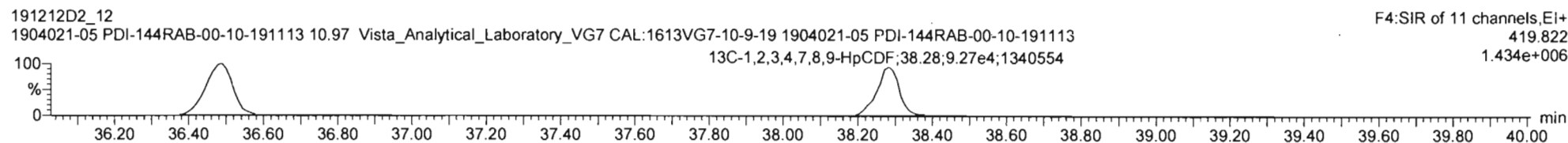
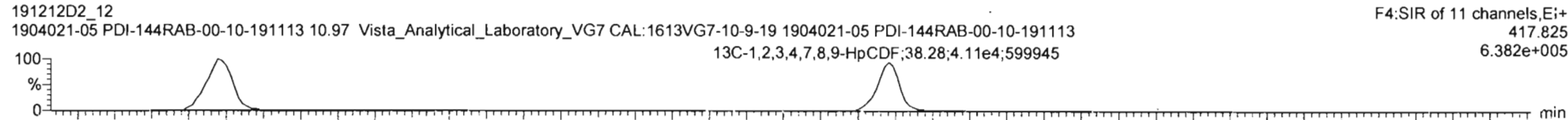
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Name: 191212D2_12, Date: 13-DEC-2019, Time: 09:42:52, ID: 1904021-05 PDI-144RAB-00-10-191113, Description: 1904021-05 PDI-144RAB-00-10-191113 10.97 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

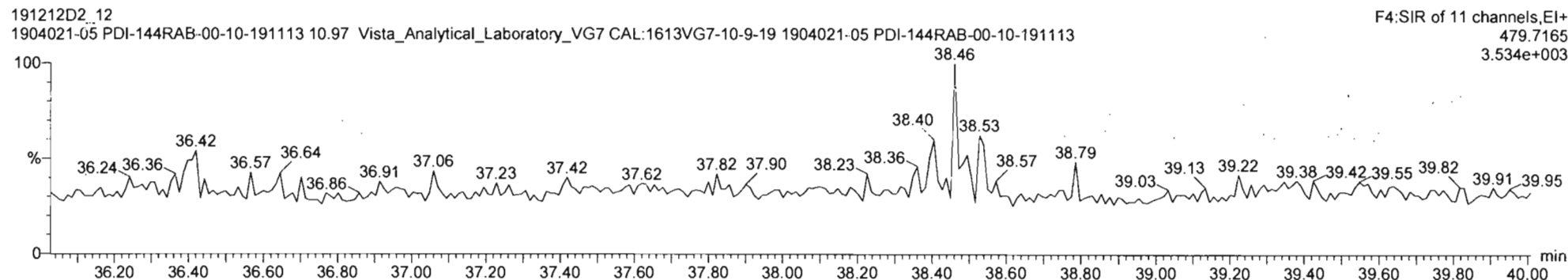
Total Hepta-Furans



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



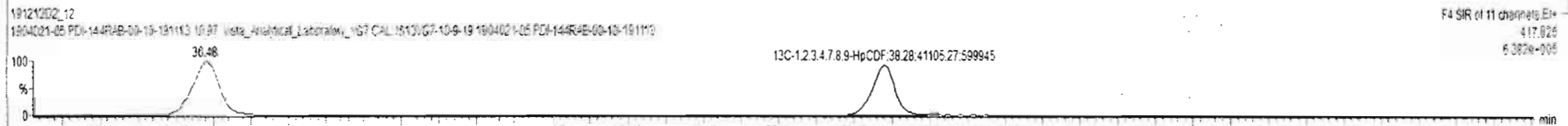
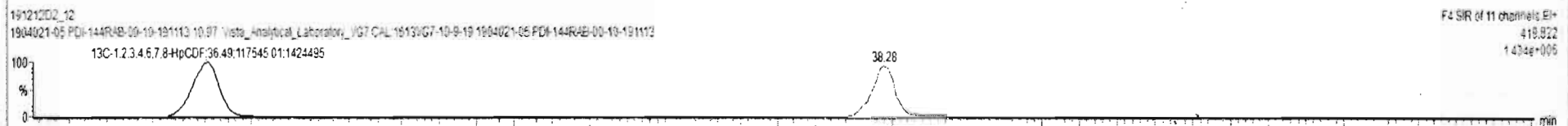
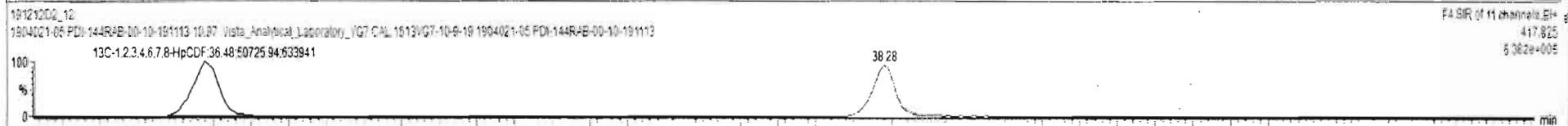
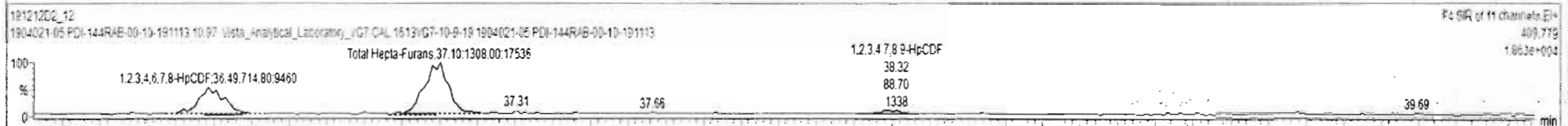
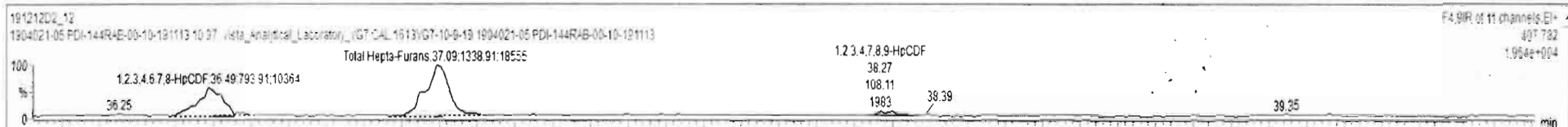
DPE4



191212D2_12 - 1904021-05 PDI-144RAB-00-10-191113 - 1904021-05 PDI-144RAB-00-10-191113 10.97 Vista_Analytical_Laboratory_VG7 CAL 1613VG7-10-9-19

#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wt/vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	EMPC
41	41 Total Hexa-Dioxins		0.00e0				0.976	10.077	33.80			0.000	NO	1.146	0.253	2.165	
42	42 Total Hepta-Dioxins		1.42e5				0.689	10.077	37.75			0.000	NO	26.36	0.374	26.36	
43	43 Total Tetra-Furans		2.41e5				0.943	10.077	24.00			0.000	NO	0.0000	0.0679	0.3361	
44	44 1st Func. Penta-Furans		0.90e0				0.940	10.077	27.63			0.000	NO	0.5936	0.0580	0.5036	
45	45 Total Penta-Furans		0.00e0				0.940	10.077	30.00			0.000	NO	0.3228	0.105	1.209	
46	46 Total Hexa-Furans		0.00e0				1.078	10.077	33.00			0.000	NO	2.560	0.199	2.550	
47	47 Total Hepta-Furans		0.00e0				1.135	10.077	37.75			0.000	NO	4.644	0.178	4.854	
48	48 PFK1																
49	49 PFK7																

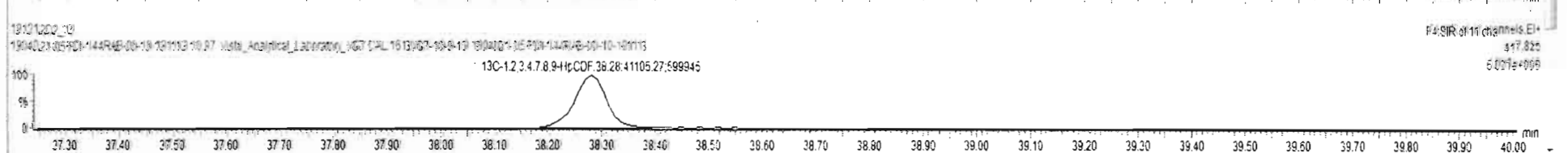
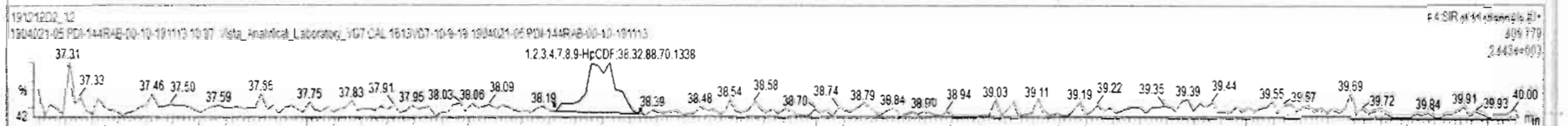
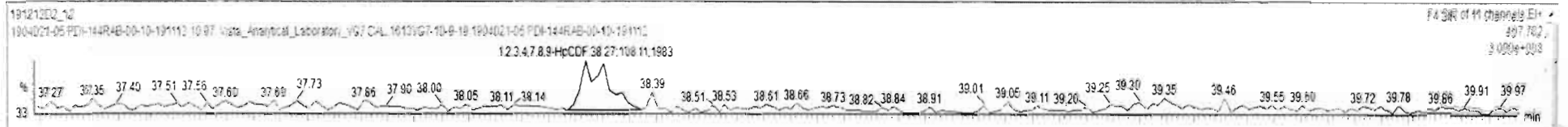
#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	15 1,2,3,4,6,7,8-HpCDF	36.51	36.49	7.939e2	7.149e2	1.040	1.11	NO	1.5781	1.5781
2	47 Total Hepta-Furans	37.75	37.09	1.339e3	1.302e3	1.040	1.92	NO	3.0657	3.0657
3	16 1,2,3,4,7,8,9-HpCDF	38.28	38.27	1.061e2	8.870e1	1.040	1.22	YES	0.20976	0.00000



191212D2_12 - 1904021-05 PDI-144RAB-00-10-191113 - 1904021-05 PDI-144RAB-00-10-191113 10.97 Vista_Analytical_Laboratory_VG7 CAL 1613VG7-10-9-19

#	Name	Resp	IS Resp	IS#	RA	nly	RRF	wtvol	Pred RT	RT	RRT	Pred.RRT	Check RRT	Conc	%Rec	DL	EMPC
41	Total Hexa-Dioxins	0.00e0					0.576	10.077	33.80			0.000	NO	1.145		0.253	2.165
42	Total Hepta-Dioxins	1.42e5					0.989	10.077	37.75			0.000	NO	26.36		0.074	26.36
43	Total Tetra-Furans	2.41e5					0.943	10.077	24.00			0.000	NO	0.0000		0.0679	0.3361
44	1st Func. Penta-Furans	0.00e0					0.940	10.077	27.63			0.000	NO	0.5038		0.0580	0.5038
45	Total Penta-Furans	0.00e0					0.940	10.077	30.00			0.000	NO	0.3228		0.105	1.209
46	Total Hexa-Furans	0.00e0					1.078	10.077	33.00			0.000	NO	2.560		0.195	2.560
47	Total Hepta-Furans	0.00e0					1.135	10.077	37.75			0.000	NO	4.644		0.178	4.654
48	PFK1																

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	nly	EMPC	Conc.
1	1,2,3,4,6,7,8-HpCDF	36.51	36.49	7.579e2	7.148e2	1.040	1.11	NO	1.5781	1.5781
2	47 Total Hepta-Furans	37.75	37.09	1.339e3	1.308e3	1.040	1.02	NO	3.0657	3.0657
3	1,2,3,4,7,8,9-HpCDF	38.28	38.27	1.081e2	8.870e1	1.040	1.22	YES	0.26976	0.00000



Vista Analytical Laboratory

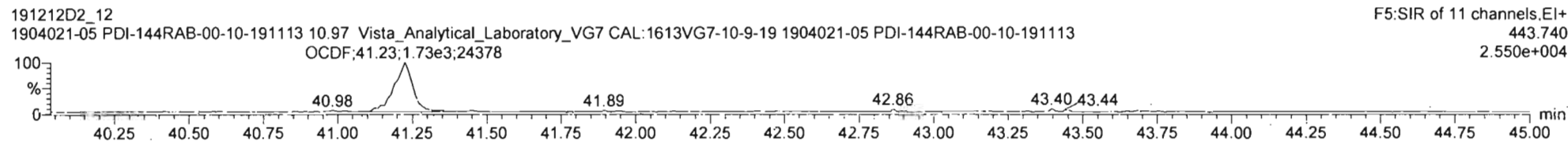
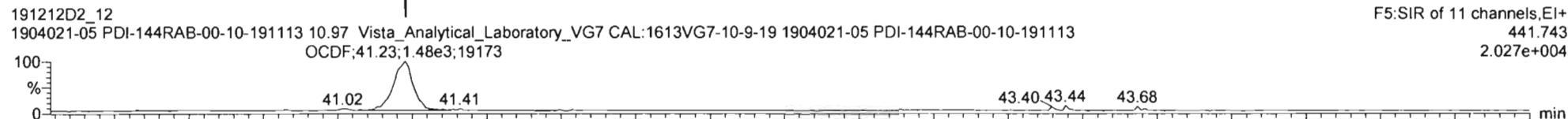
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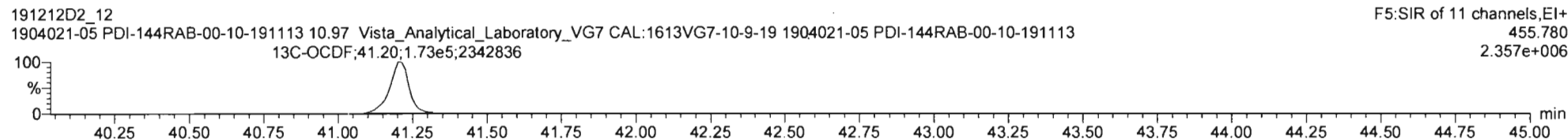
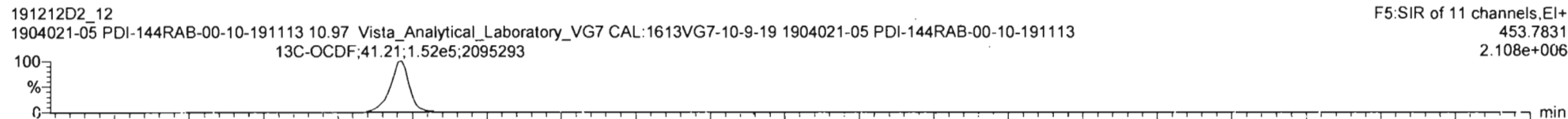
Printed: Tuesday, December 17, 2019 09:53:46 Pacific Standard Time

Name: 191212D2_12, Date: 13-DEC-2019, Time: 09:42:52, ID: 1904021-05 PDI-144RAB-00-10-191113,
Description: 1904021-05 PDI-144RAB-00-10-191113 10.97 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

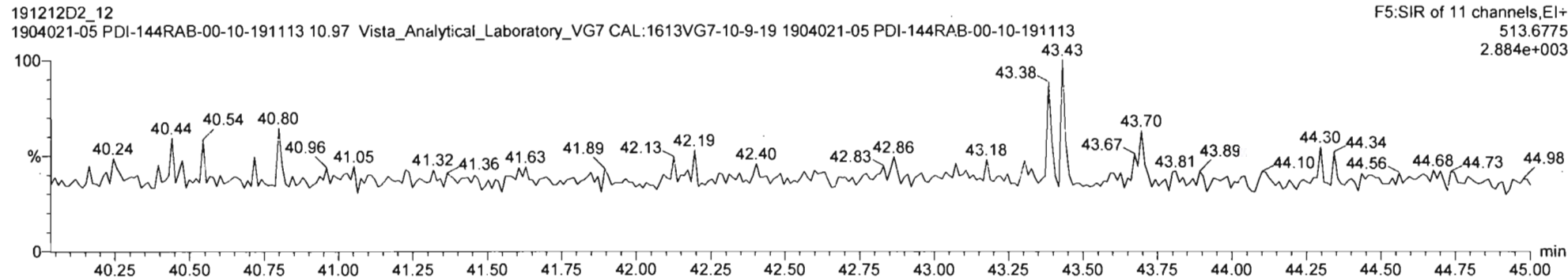
OCDF



13C-OCDF

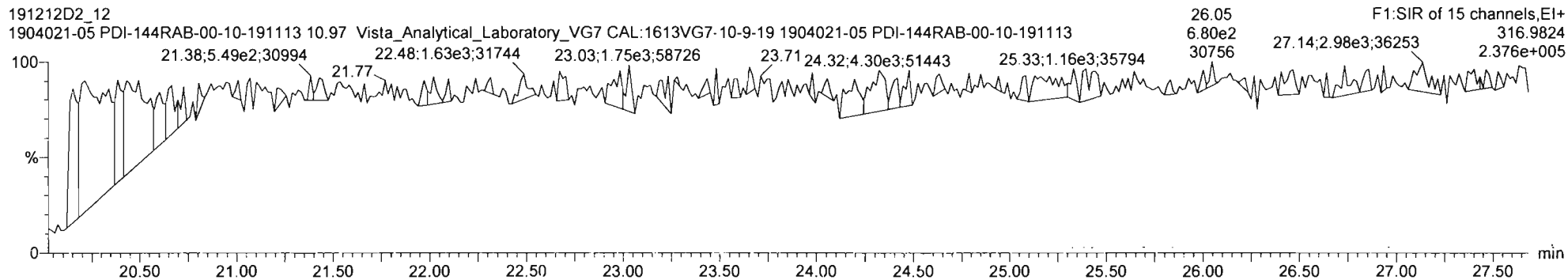


DPE5

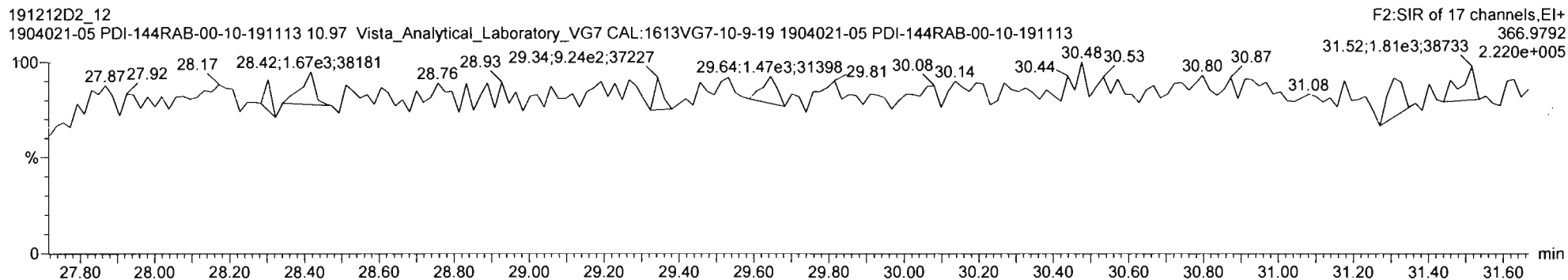


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Description: 1904021-05 PDI-144RAB-00-10-191113 10.97 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

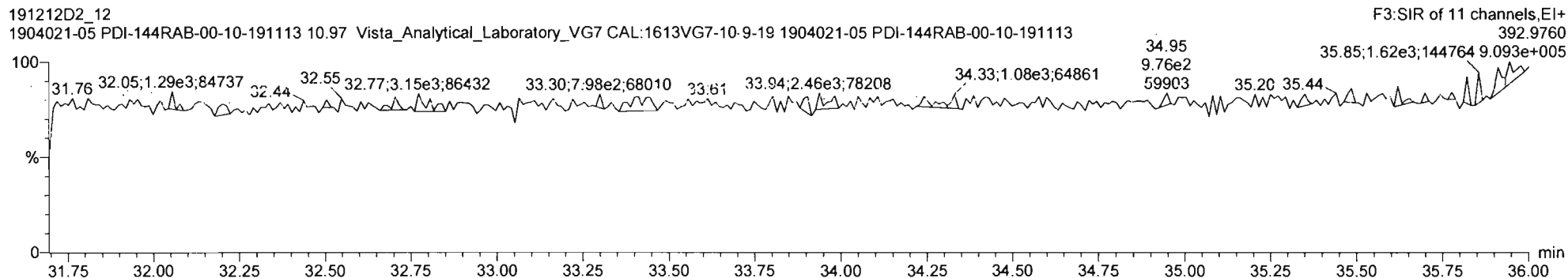
PFK1



PFK2



PFK3



Vista Analytical Laboratory

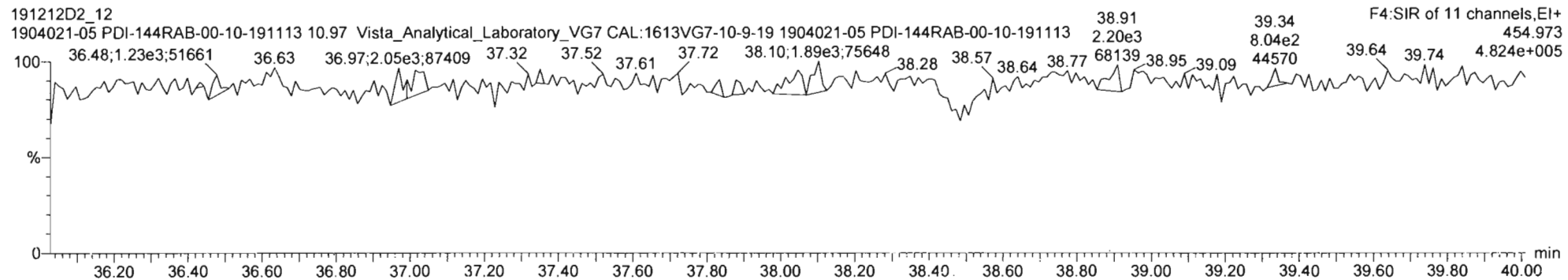
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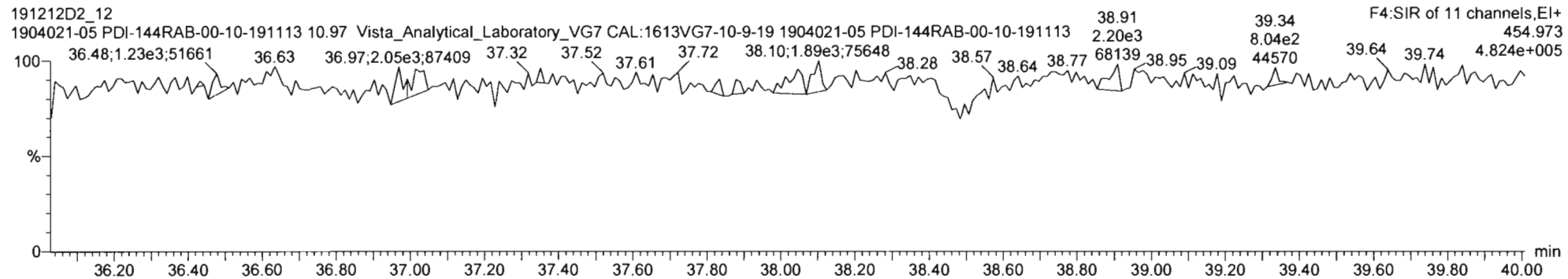
Printed: Tuesday, December 17, 2019 09:53:46 Pacific Standard Time

Name: 191212D2_12, Date: 13-DEC-2019, Time: 09:42:52, ID: 1904021-05 PDI-144RAB-00-10-191113,
Description: 1904021-05 PDI-144RAB-00-10-191113 10.97 Vista_Analytical_Laboratory_VG7 CAL.:1613VG7-10-9-19

PFK4



PFK5



Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	3.99e+03	0.40 n	0.91	25:59	0.10916	*	2.5	*	*	Total Tetra-Dioxins	0.181	0.549	*	*	*
1,2,3,7,8-PeCDD	*	* n	0.90	Not F η	*	217	2.5	0.109	0.109	Total Penta-Dioxins	*	*	217	0.109	*
1,2,3,4,7,8-HxCDD	*	* n	1.10	Not F η	*	191	2.5	0.124	0.124	Total Hexa-Dioxins	1.13	2.40	*	*	*
1,2,3,6,7,8-HxCDD	8.55e+03	1.58 n	0.94	33:58	0.27831	*	2.5	*	*	Total Hepta-Dioxins	14.9	14.9	*	*	*
1,2,3,7,8,9-HxCDD	5.54e+03	1.25 y	0.96	34:16	0.17026	*	2.5	*	*	Total Tetra-Furans	0.0972	0.251	*	*	*
1,2,3,4,6,7,8-HpCDD	2.00e+05	1.03 y	0.98	37:45	6.7954	*	2.5	*	*	Total Penta-Furans	0.64922	1.2765	*	*	*
OCDD	1.62e+06	0.91 y	0.96	41:00	63.625	*	2.5	*	*	Total Hexa-Furans	1.47	1.47	*	*	*
										Total Hepta-Furans	3.03	3.03	*	*	*
2,3,7,8-TCDF	5.49e+03	0.66 y	0.95	25:12	0.097161	*	2.5	*	*						
1,2,3,7,8-PeCDF	1.69e+04	1.58 y	0.96	29:22	0.33770	*	2.5	*	*						
2,3,4,7,8-PeCDF	5.36e+03	1.96 n	1.01	30:15	0.10923	*	2.5	*	*						
1,2,3,4,7,8-HxCDF	2.01e+04	1.27 y	1.18	33:00	0.45099	*	2.5	*	*						
1,2,3,6,7,8-HxCDF	*	* n	1.07	Not F η	*	185	2.5	0.0571	0.0571						
2,3,4,6,7,8-HxCDF	*	* n	1.11	Not F η	*	185	2.5	0.0641	0.0641						
1,2,3,7,8,9-HxCDF	*	* n	1.06	Not F η	*	185	2.5	0.0867	0.0867						
1,2,3,4,6,7,8-HpCDF	3.58e+04	1.11 y	1.13	36:29	0.98509	*	2.5	*	*						
1,2,3,4,7,8,9-HpCDF	4.71e+03	0.96 y	1.28	38:18	0.14350	*	2.5	*	*						
OCDF	7.60e+04	1.00 y	0.95	41:13	2.5194	*	2.5	*	*						
										Rec	Qual				
IS	13C-2,3,7,8-TCDD	8.03e+06	0.77 y	1.10	25:59	204.82				103					
IS	13C-1,2,3,7,8-PeCDD	6.11e+06	0.65 y	0.88	30:33	193.76				97.4					
IS	13C-1,2,3,4,7,8-HxCDD	5.91e+06	1.25 y	0.64	33:52	207.98				105					
IS	13C-1,2,3,6,7,8-HxCDD	6.51e+06	1.26 y	0.86	33:58	171.99				86.4					
IS	13C-1,2,3,7,8,9-HxCDD	6.73e+06	1.24 y	0.81	34:16	188.50				94.7					
IS	13C-1,2,3,4,6,7,8-HpCDD	5.99e+06	1.10 y	0.65	37:45	206.98				104					
IS	13C-OCDD	1.06e+07	0.88 y	0.58	41:00	412.83				104					
IS	13C-2,3,7,8-TCDF	1.18e+07	0.76 y	1.03	25:11	196.07				98.5					
IS	13C-1,2,3,7,8-PeCDF	1.04e+07	1.61 y	0.85	29:22	207.84				104					
IS	13C-2,3,4,7,8-PeCDF	9.62e+06	1.62 y	0.85	30:16	194.49				97.7					
IS	13C-1,2,3,4,7,8-HxCDF	7.54e+06	0.50 y	0.83	32:58	204.68				103					
IS	13C-1,2,3,6,7,8-HxCDF	8.72e+06	0.51 y	1.03	33:06	190.35				95.7					
IS	13C-2,3,4,6,7,8-HxCDF	7.88e+06	0.51 y	0.95	33:42	186.70				93.8					
IS	13C-1,2,3,7,8,9-HxCDF	7.34e+06	0.49 y	0.83	34:39	200.34				101					
IS	13C-1,2,3,4,6,7,8-HpCDF	6.42e+06	0.41 y	0.76	36:29	191.41				96.2					
IS	13C-1,2,3,4,7,8,9-HpCDF	5.10e+06	0.44 y	0.58	38:17	198.27				99.6					
IS	13C-OCDF	1.27e+07	0.87 y	0.69	41:13	415.75				104					
C/Up	37C1-2,3,7,8-TCDD	3.24e+06		1.20	26:00	75.562				94.9					
RS/RT	13C-1,2,3,4-TCDD	7.12e+06	0.83 y	1.00	25:25	198.99									
RS	13C-1,2,3,4-TCDF	1.16e+07	0.79 y	1.00	23:57	198.99									
RS/RT	13C-1,2,3,4,6,9-HxCDF	8.81e+06	0.51 y	1.00	33:23	198.99									

Integrations Reviewed
 by DB by CT
 Analyst: DB Analyst: CT
 Date: 1/10/20 Date: 01/17/2020

Totals class: TCDD EMPC

Entry #: 19

Run: 12 File: 200109D2 S: 7 I: 1 F: 1
Acquired: 10-JAN-20 03:30:28 Processed: 10-JAN-20 10:44:51

Total Concentration: 0.54887 Unnamed Concentration: 0.440

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
22:32	6.047e+03	5.334e+03	1.13	n	9.441e+03	0.25853
25:59	1.734e+03	4.389e+03	0.40	n	3.987e+03	0.10916
26:18	2.985e+03	3.632e+03	0.82	y	6.617e+03	0.18118

Totals class: HxCDD EMPC

Entry #: 23

Run: 12 File: 200109D2 S: 7 I: 1 F: 3
Acquired: 10-JAN-20 03:30:28 Processed: 10-JAN-20 10:44:51

Total Concentration: 2.4045

Unnamed Concentration: 1.956

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name	
32:21	1.692e+04	1.378e+04	1.23	y	3.071e+04	0.96472	
32:55	4.163e+03	2.867e+03	1.45	n	6.422e+03	0.20177	
33:10	1.634e+04	1.122e+04	1.46	n	2.513e+04	0.78945	
33:58	6.045e+03	3.818e+03	1.58	n	8.552e+03	0.27831	1,2,3,6,7,8-HxCDD
34:16	3.075e+03	2.462e+03	1.25	y	5.537e+03	0.17026	1,2,3,7,8,9-HxCDD

Totals class: HpCDD EMPC

Entry #: 25

Run: 12

File: 200109D2

S: 7 I: 1 F: 4

Acquired: 10-JAN-20 03:30:28

Processed: 10-JAN-20 10:44:51

Total Concentration: 14.883

Unnamed Concentration: 8.088

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Resp Concentration	Name
36:53	1.220e+05	1.165e+05	1.05 y	2.385e+05	8.0877	
37:45	1.016e+05	9.885e+04	1.03 y	2.004e+05	6.7954	1,2,3,4,6,7,8-HpCDD

Totals class: TCDF EMPC

Entry #: 27

Run: 12 File: 200109D2 S: 7 I: 1 F: 1
Acquired: 10-JAN-20 03:30:28 Processed: 10-JAN-20 10:44:51

Total Concentration: 0.25119 Unnamed Concentration: 0.154

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
21:32	2.185e+03	3.611e+03	0.61	n	5.022e+03	0.088807
24:23	2.680e+03	2.084e+03	1.29	n	3.689e+03	0.065225
25:12	2.184e+03	3.310e+03	0.66	y	5.495e+03	0.097161 2,3,7,8-TCDF

Totals class: 1st Func. PeCDF EMPC Entry #: 29

Run: 12 File: 200109D2 S: 7 I: 1 F: 1
Acquired: 10-JAN-20 03:30:28 Processed: 10-JAN-20 10:44:51

Total Concentration: 0.31152 Unnamed Concentration: 0.312

RT	m1 Resp	m2 Resp	RA	Resp Concentration	Name
27:00	9.509e+03	5.934e+03	1.60 y	1.544e+04	0.31152

Totals class: PeCDF EMPC

Entry #: 31

Run: 12 File: 200109D2 S: 7 I: 1 F: 2
Acquired: 10-JAN-20 03:30:28 Processed: 10-JAN-20 10:44:51

Total Concentration: 0.96501 Unnamed Concentration: 0.518

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name	
28:27	1.128e+04	4.819e+03	2.34	n	1.229e+04	0.24788	
28:59	1.752e+03	1.625e+03	1.08	n	2.882e+03	0.058139	
29:22	1.035e+04	6.540e+03	1.58	y	1.689e+04	0.33770	1,2,3,7,8-PeCDF
29:38	3.902e+03	2.188e+03	1.78	n	5.580e+03	0.11256	
30:15	4.115e+03	2.101e+03	1.96	n	5.357e+03	0.10923	2,3,4,7,8-PeCDF
30:18	2.999e+03	2.444e+03	1.23	n	4.934e+03	0.099520	

Totals class: HxCDF EMPC

Entry #: 33

Run: 12 File: 200109D2 S: 7 I: 1 F: 3
Acquired: 10-JAN-20 03:30:28 Processed: 10-JAN-20 10:44:51

Total Concentration: 1.4655 Unnamed Concentration: 1.015

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
31:48	2.973e+03	2.558e+03	1.16	y	5.531e+03	0.12676
31:59	1.033e+04	7.843e+03	1.32	y	1.818e+04	0.41660
32:30	1.119e+04	9.368e+03	1.19	y	2.056e+04	0.47120
33:00	1.123e+04	8.873e+03	1.27	y	2.010e+04	0.45099 1,2,3,4,7,8-HxCDF

Totals class: HpCDF EMPC

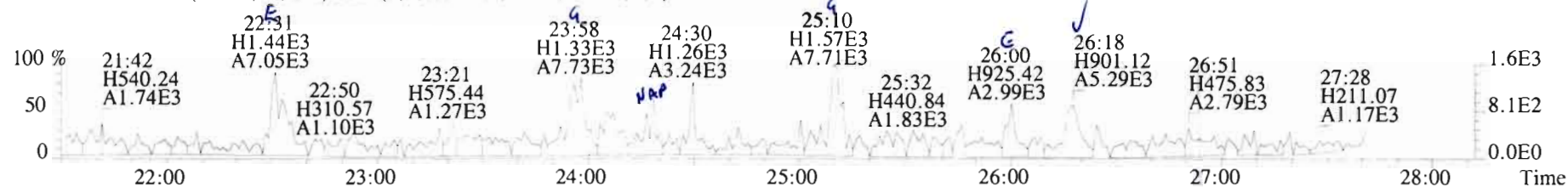
Entry #: 35

Run: 12 File: 200109D2 S: 7 I: 1 F: 4
Acquired: 10-JAN-20 03:30:28 Processed: 10-JAN-20 10:44:51

Total Concentration: 3.0271 Unnamed Concentration: 1.899

RT	m1 Resp	m2 Resp	RA		Resp Concentration	Name
36:29	1.882e+04	1.701e+04	1.11 y	3.583e+04	0.98509	1,2,3,4,6,7,8-HpCDF
37:06	3.377e+04	3.184e+04	1.06 y	6.561e+04	1.8985	
38:18	2.308e+03	2.401e+03	0.96 y	4.709e+03	0.14350	1,2,3,4,7,8,9-HpCDF

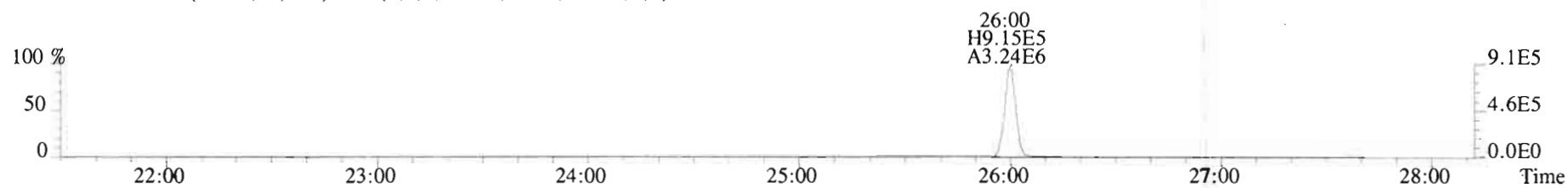
File:200109D2 #1-493 Acq:10-JAN-2020 03:30:28 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text:Vista Analytical Laboratory_VG7 Text:1904021-06RE1 PDI-144RAB-10-20-191113 10.76 Exp:OCDD_DB5
 319.8965 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



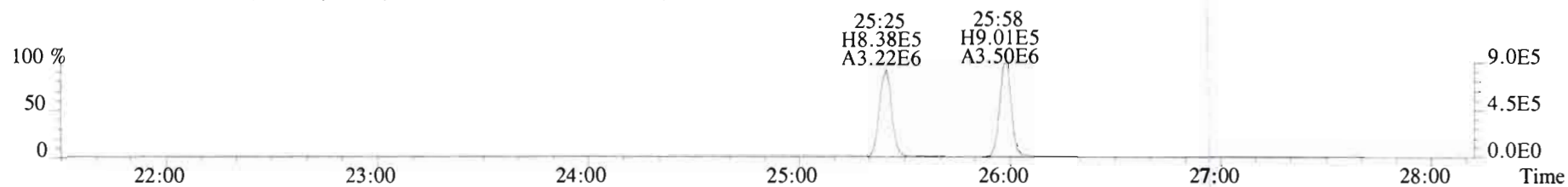
321.8936 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



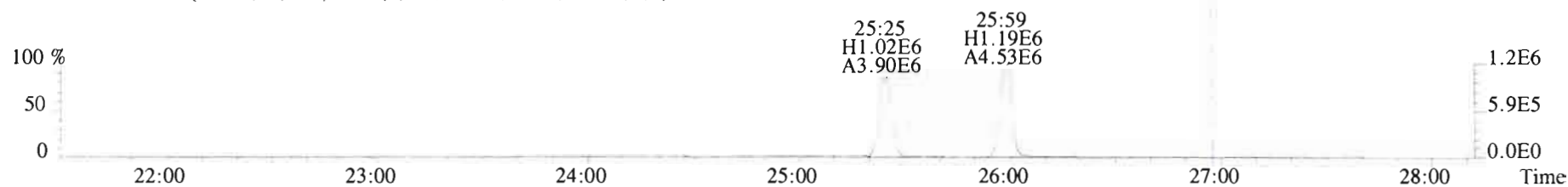
327.8847 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



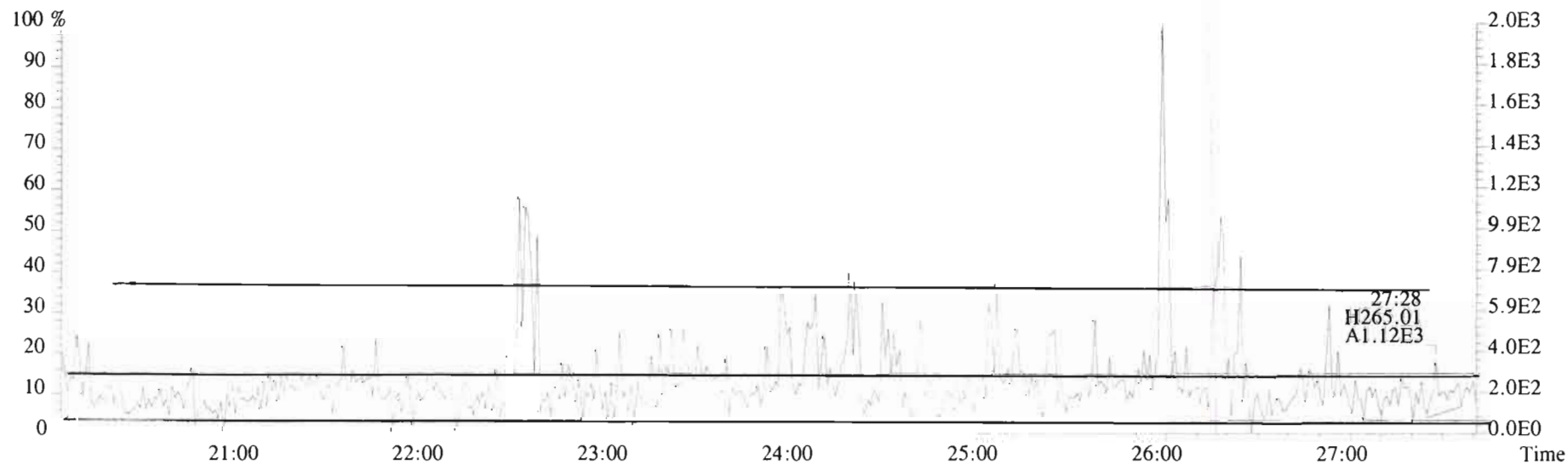
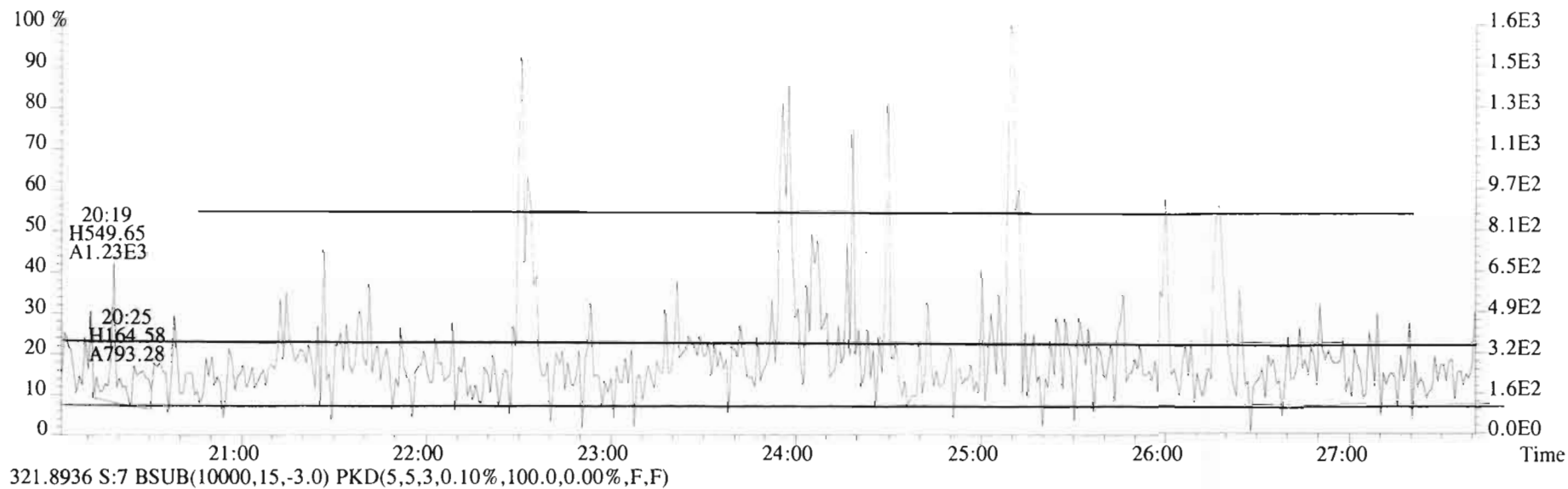
331.9368 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



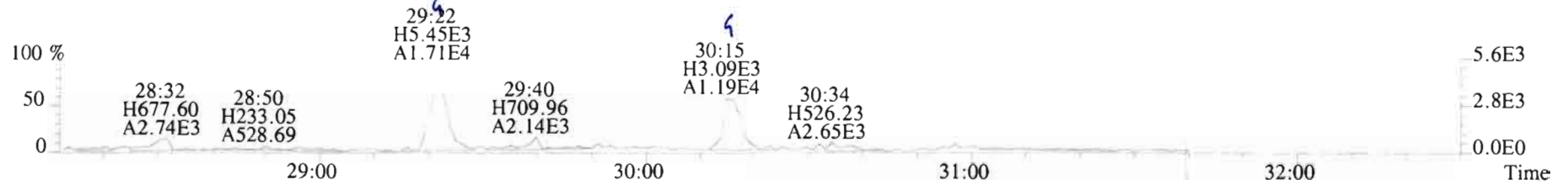
333.9339 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



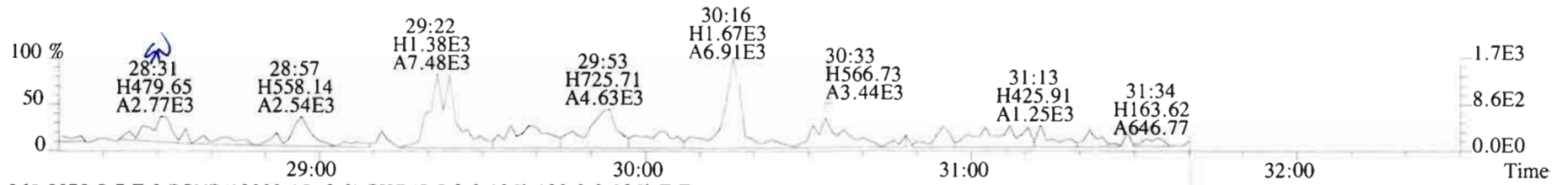
File:200109D2 #1-493 Acq:10-JAN-2020 03:30:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text: Vista Analytical Laboratory VG7 Text:1904021-06RE1 PDI-144RAB-10-20-191113 10.76 Exp:OCDD_DB5
319.8965 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



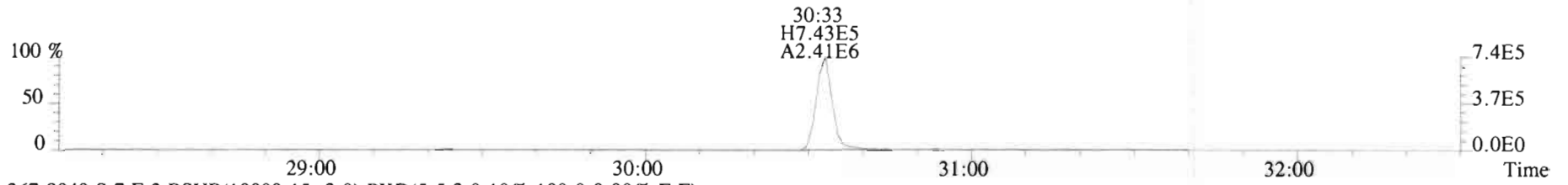
File:200109D2 #1-210 Acq:10-JAN-2020 03:30:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista_Analytical_Laboratory_VG7 Text:1904021-06RE1 PDI-144RAB-10-20-191113 10.76 Exp:OCDD_DB5
353.8576 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



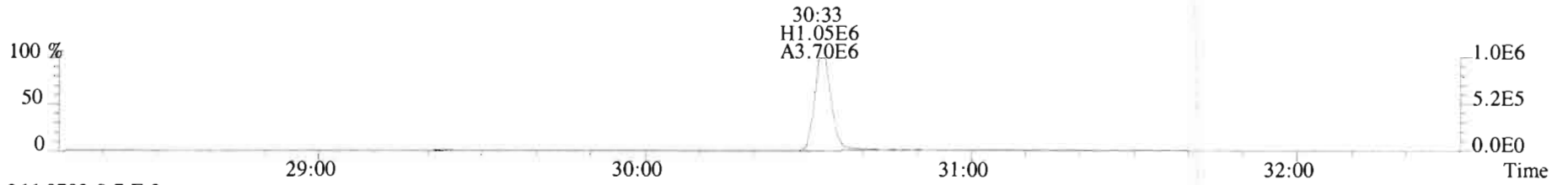
355.8546 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



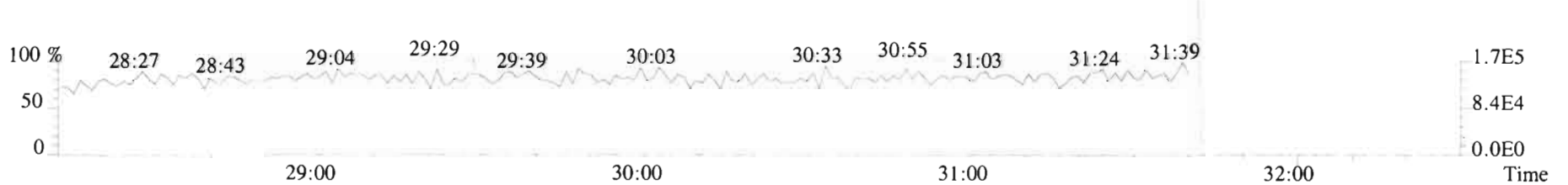
365.8978 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



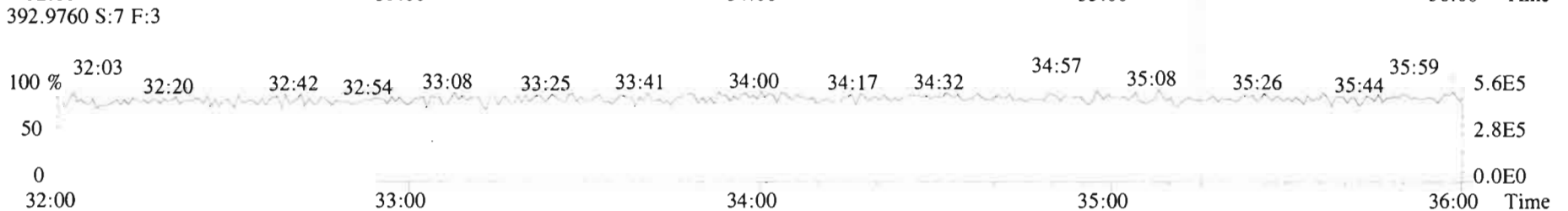
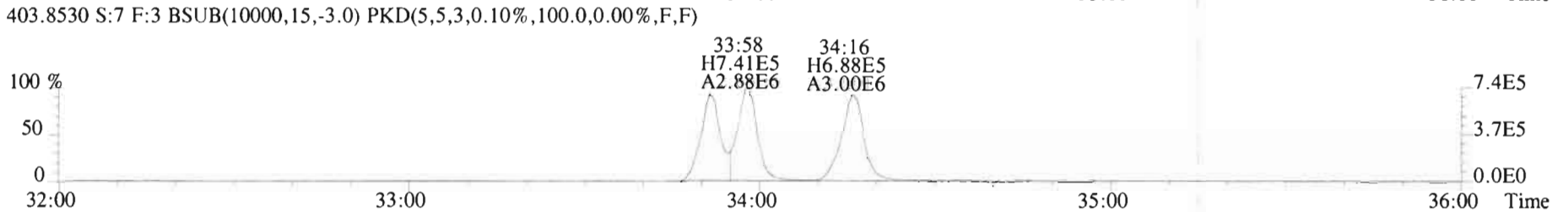
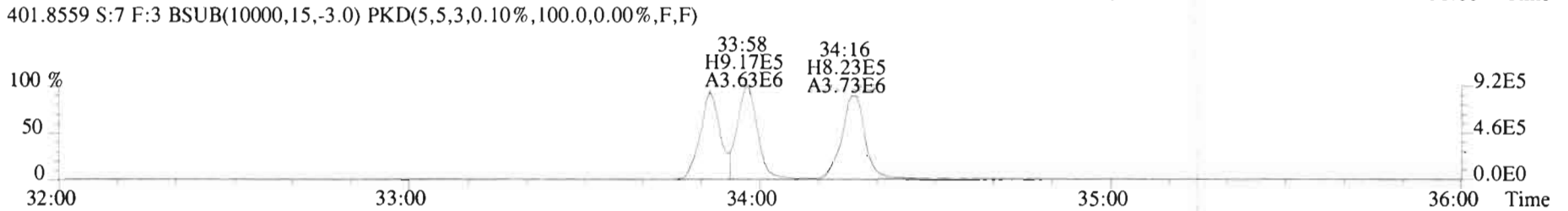
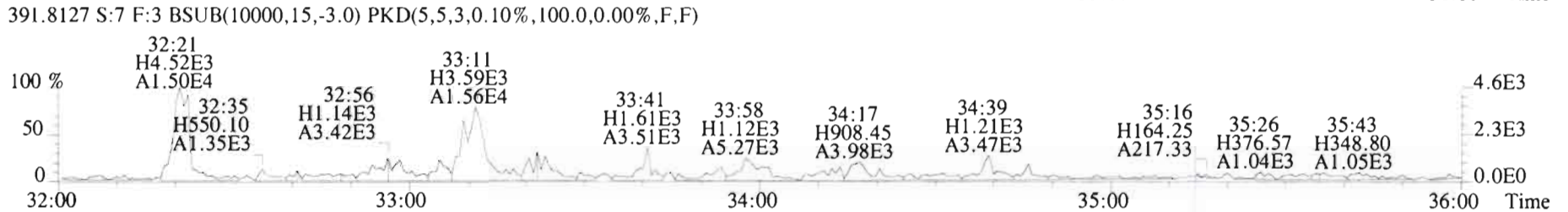
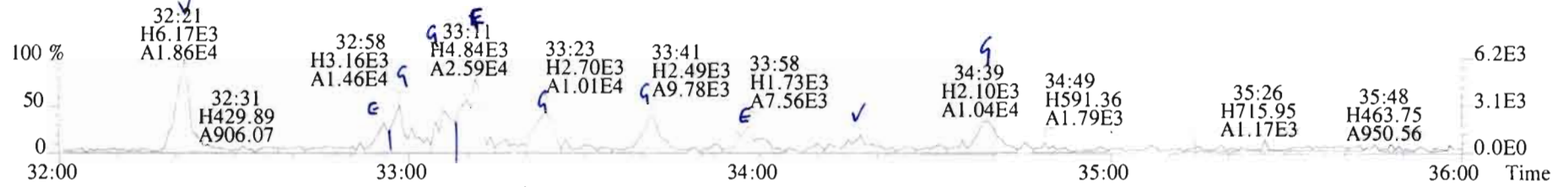
367.8949 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



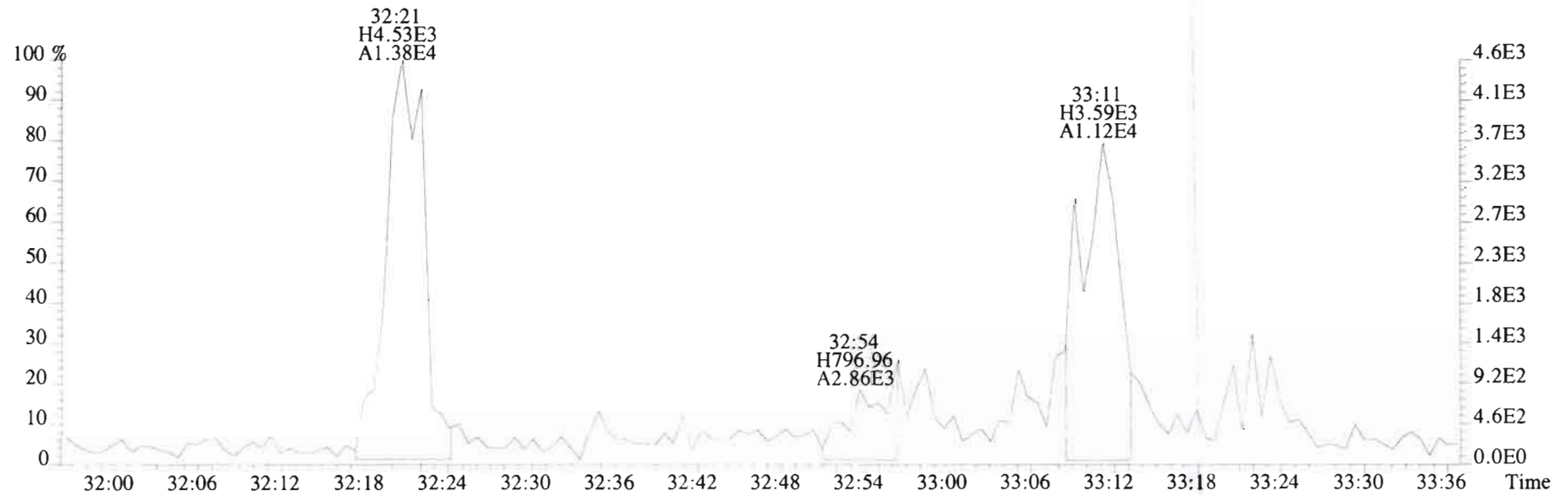
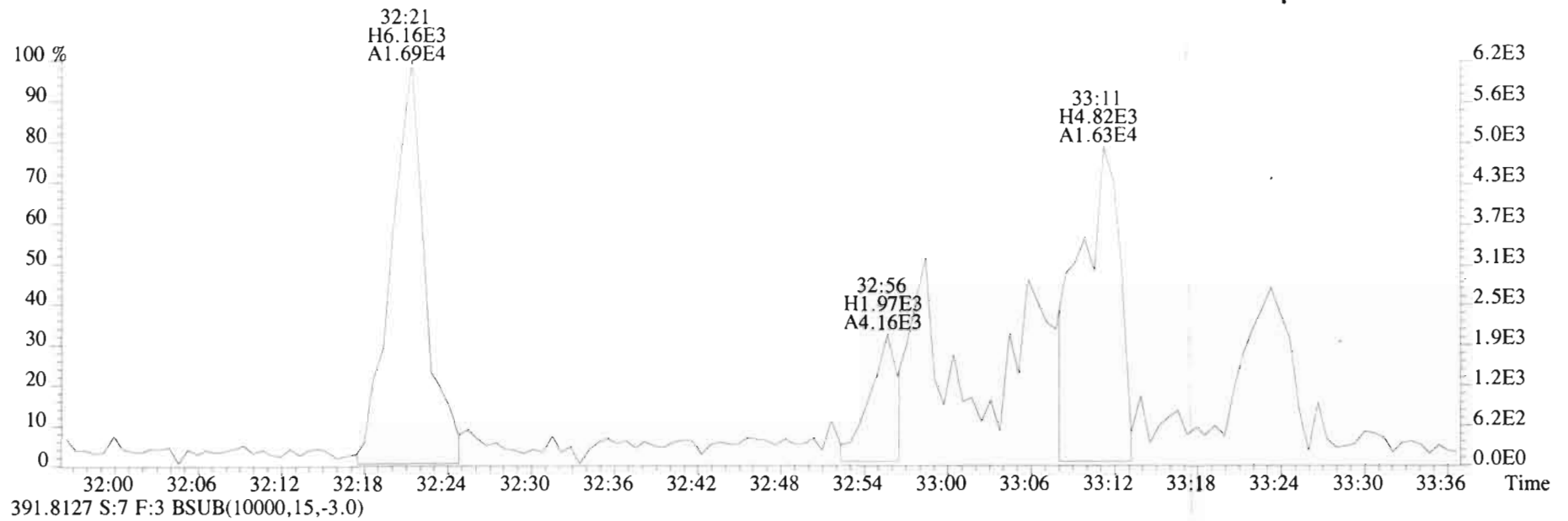
366.9792 S:7 F:2



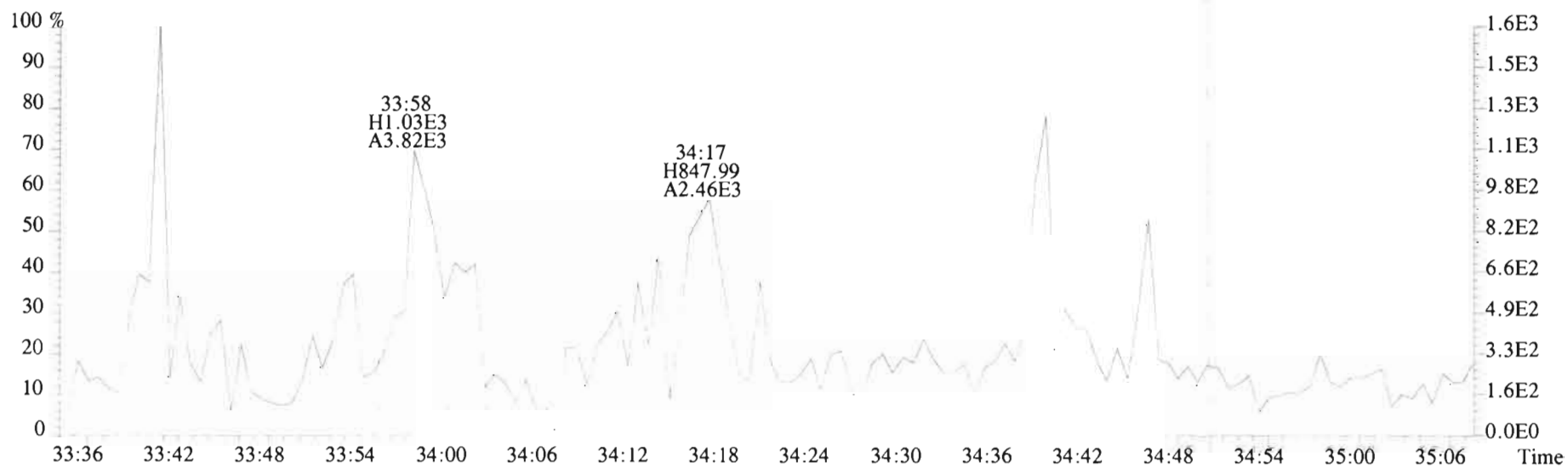
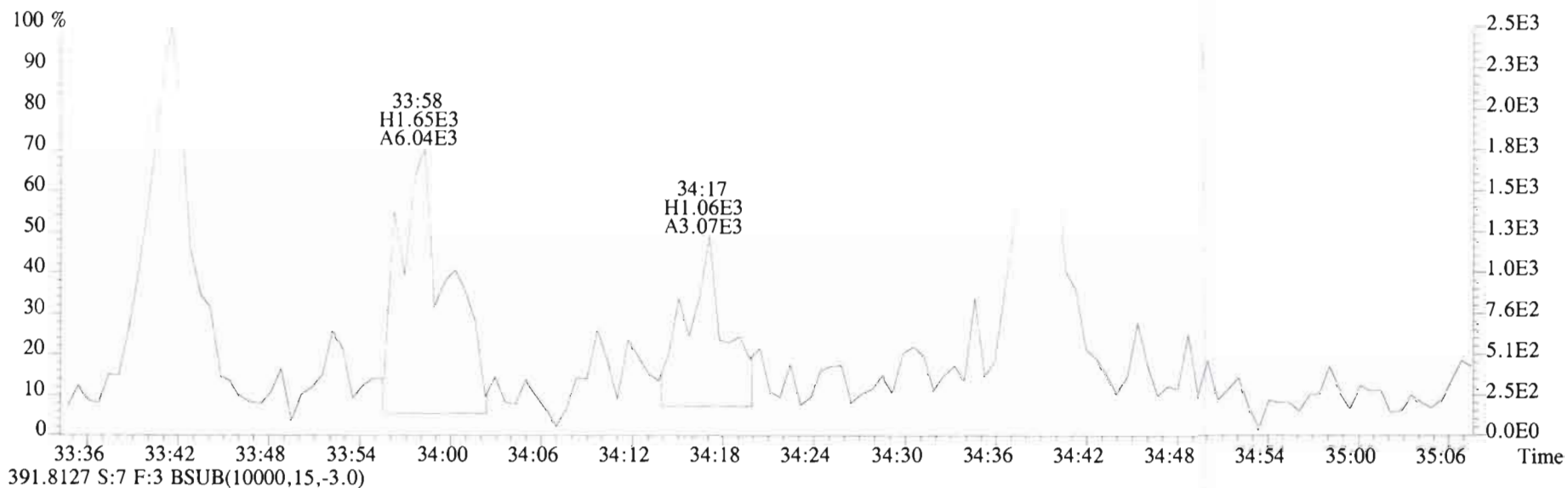
File:200109D2 #1-385 Acq:10-JAN-2020 03:30:28 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text:Vista_Analytical_Laboratory_VG7 Text:1904021-06RE1 PDI-144RAB-10-20-191113 10.76 Exp:OCDD_DB5
 389.8156 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



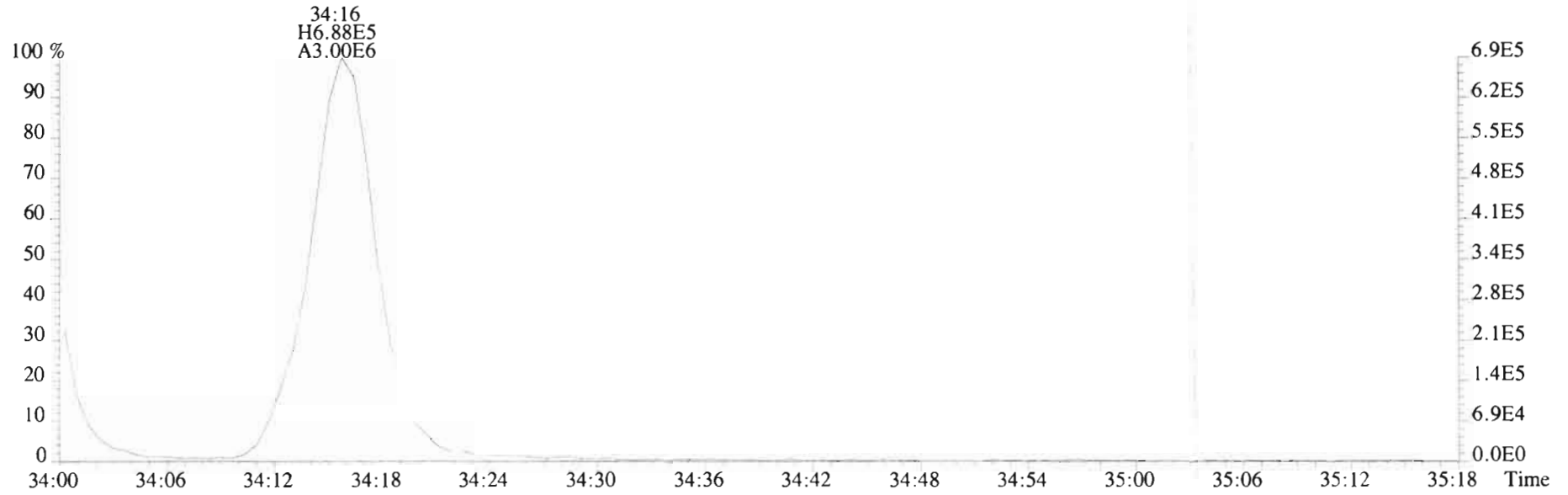
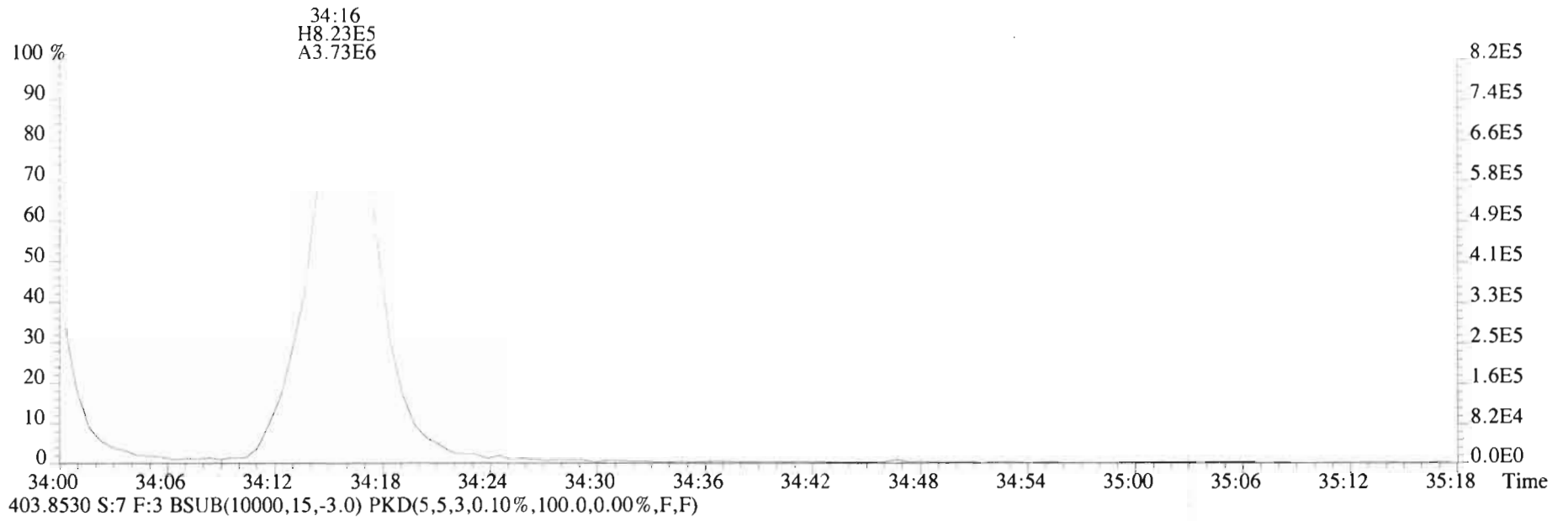
File:200109D2 #1-385 Acq:10-JAN-2020 03:30:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory_VG7 Text:1904021-06RE1 PDI-144RAB-10-20-191113 10.76 Exp:OCDD_DB5
389.8156 S:7 F:3 BSUB(10000,15,-3.0)



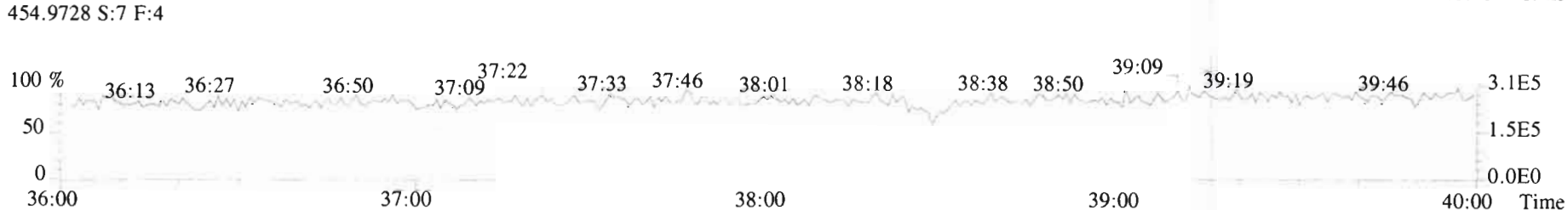
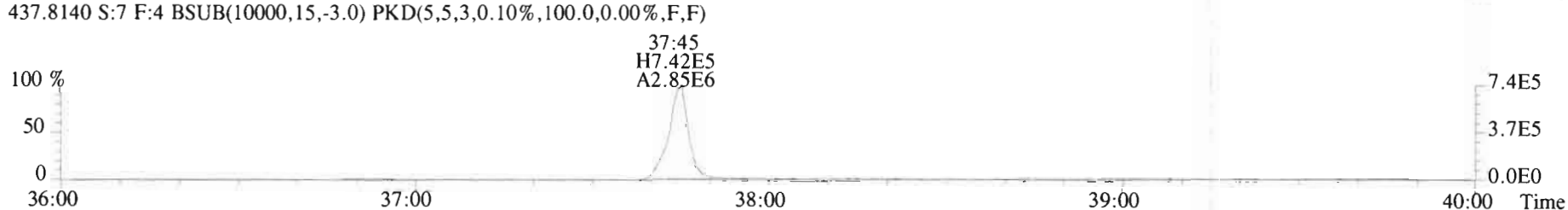
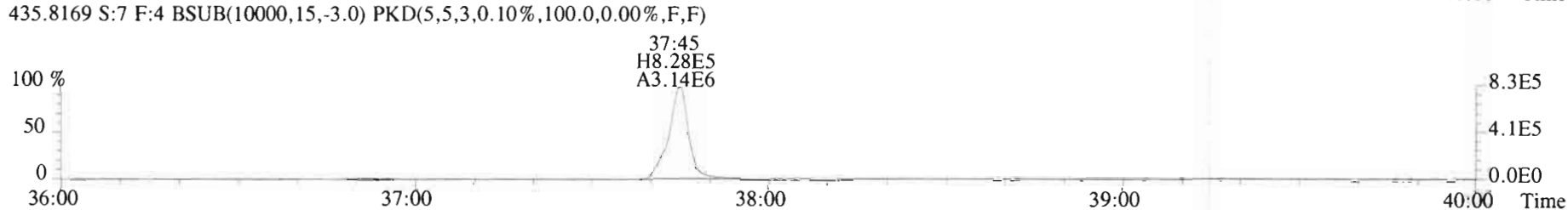
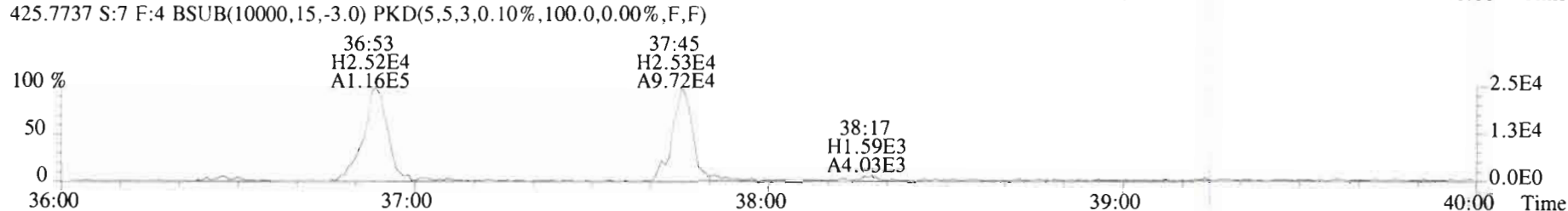
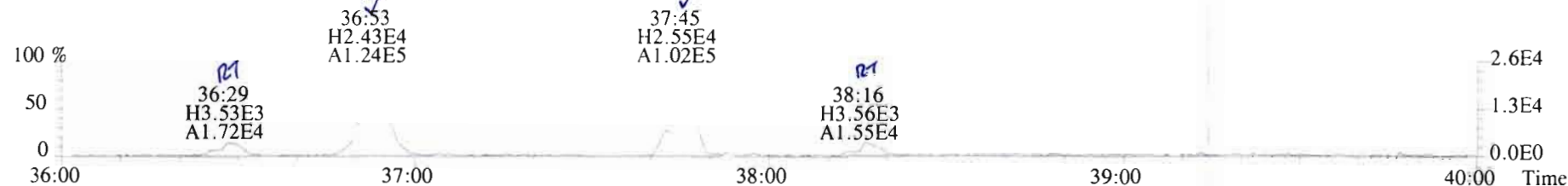
File:200109D2 #1-385 Acq:10-JAN-2020 03:30:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory_VG7 Text:1904021-06RE1 PDI-144RAB-10-20-191113 10.76 Exp:OCDD_DB5
389.8156 S:7 F:3 BSUB(T0000,15,-3.0)



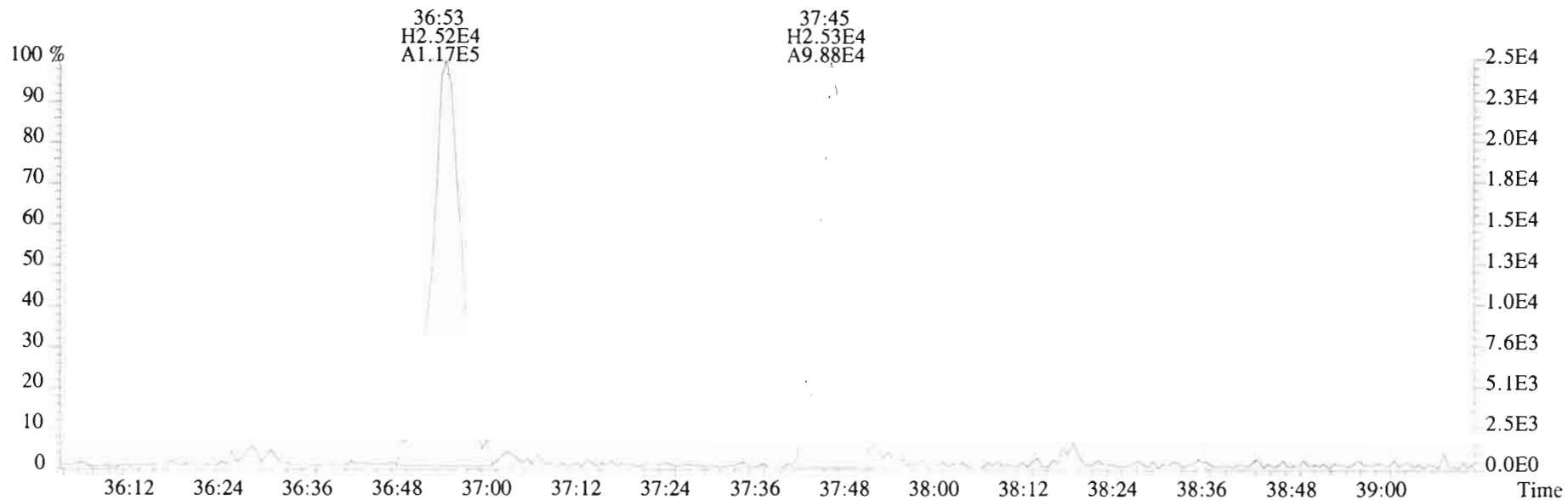
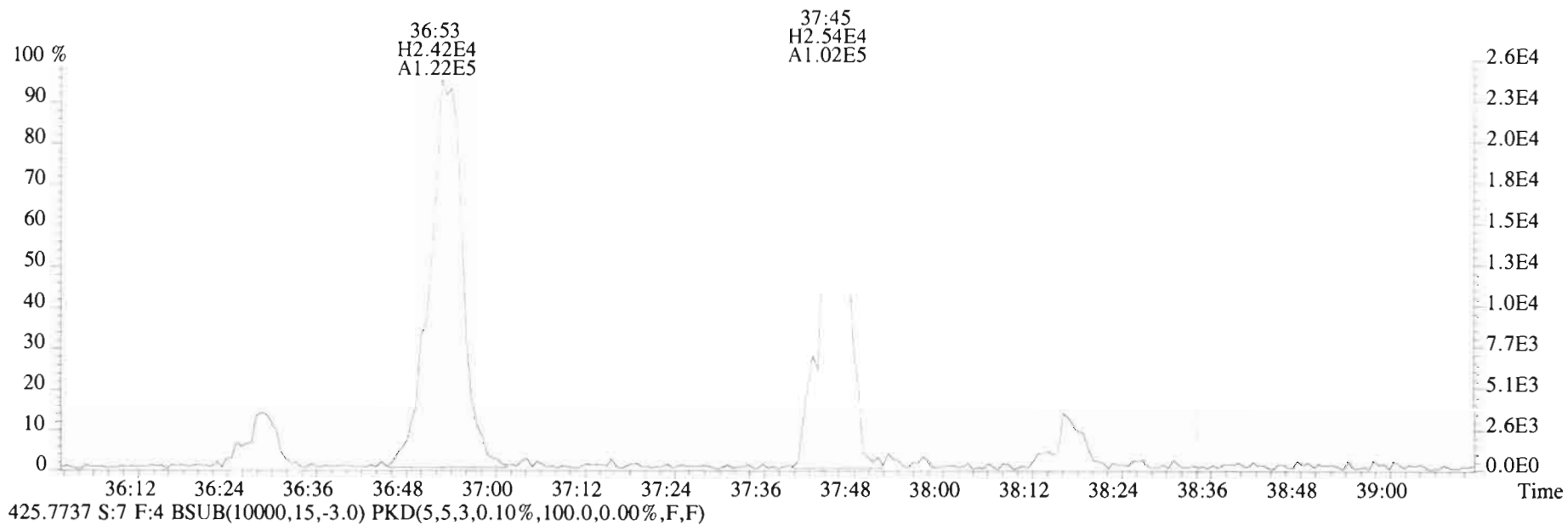
File:200109D2 #1-385 Acq:10-JAN-2020 03:30:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory_VG7 Text:1904021-06RE1 PDI-144RAB-10-20-191113 10.76 Exp:OCDD_DB5
401.8559 S:7 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F)



File:200109D2 #1-356 Acq:10-JAN-2020 03:30:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista_Analytical_Laboratory_VG7 Text:1904021-06RE1 PDI-144RAB-10-20-191113 10.76 Exp:OCDD_DB5
423.7767 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



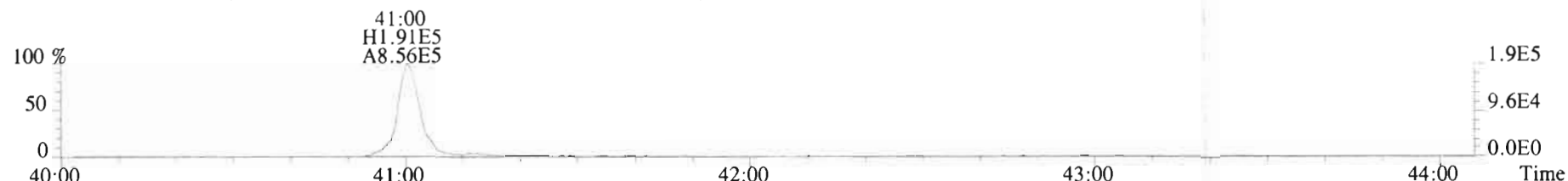
File:200109D2 #1-356 Acq:10-JAN-2020 03:30:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG7 Text:1904021-06RE1 PDI-144RAB-10-20-191113 10.76 Exp:OCDD_DB5
423.7767 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



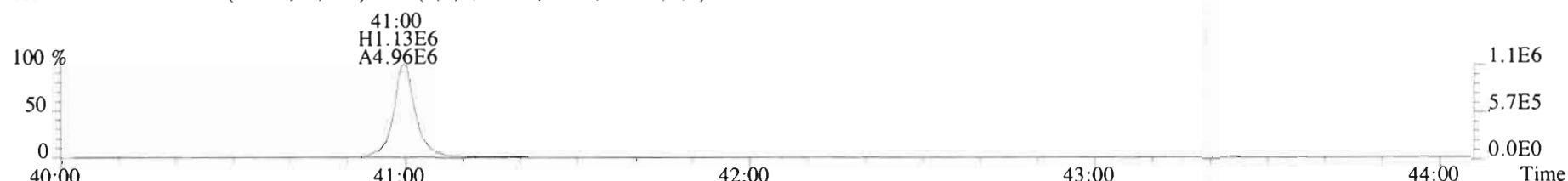
File:200109D2 #1-432 Acq:10-JAN-2020 03:30:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista_Analytical_Laboratory_VG7 Text:1904021-06RE:1 PDI-144RAB-10-20-191113 10.76 Exp:OCDD_DB5
457.7377 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



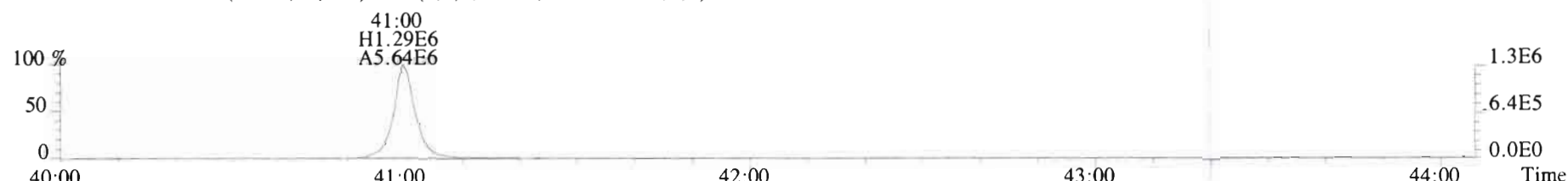
459.7348 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



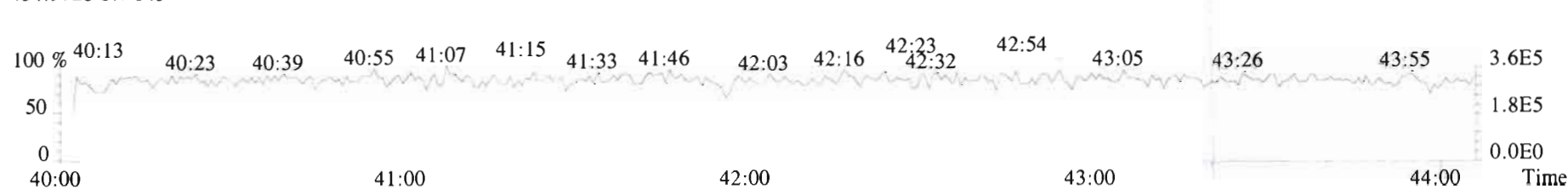
469.7780 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



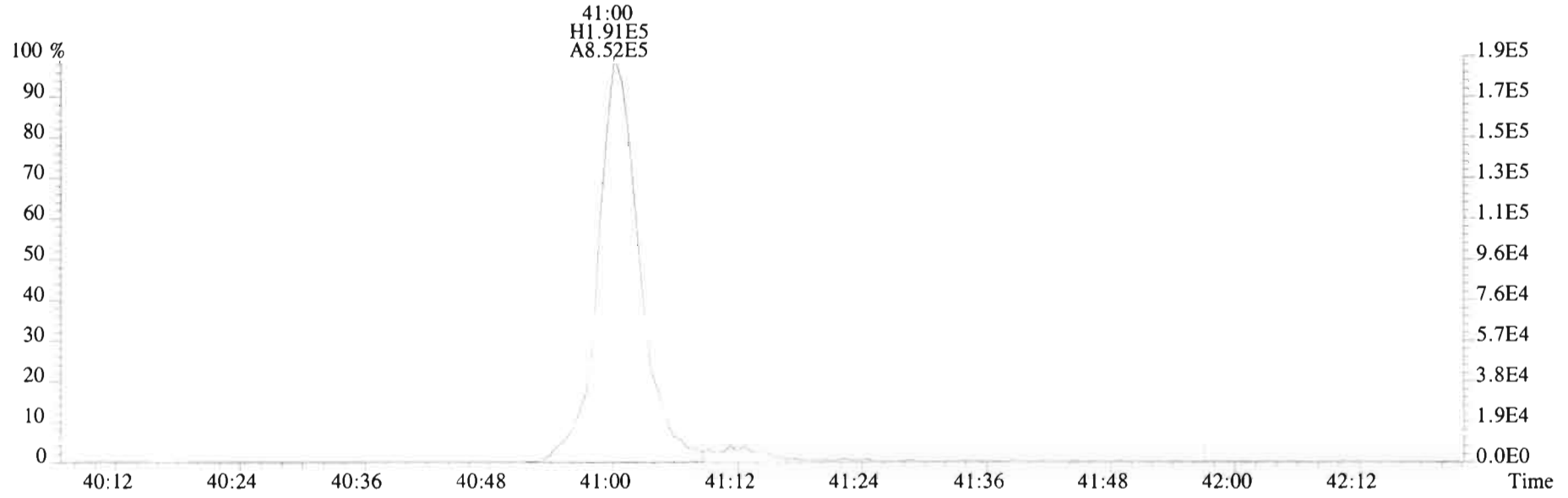
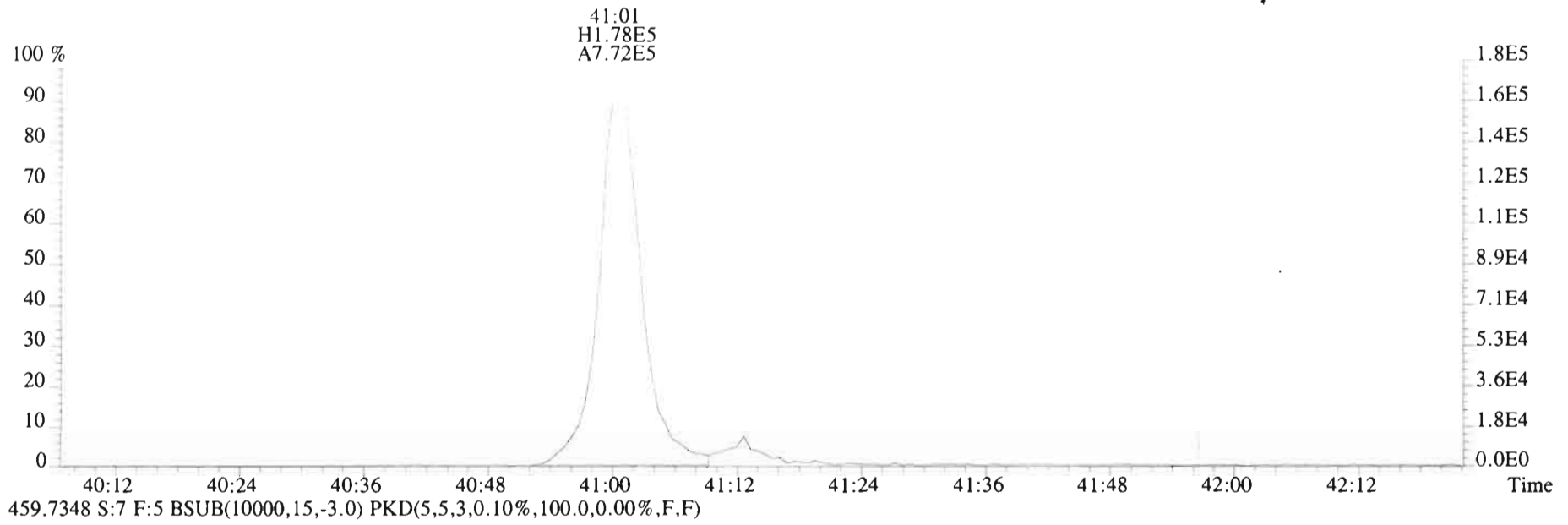
471.7750 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



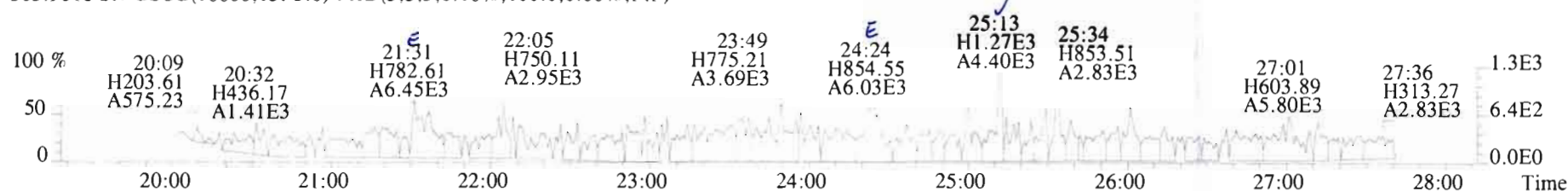
454.9728 S:7 F:5



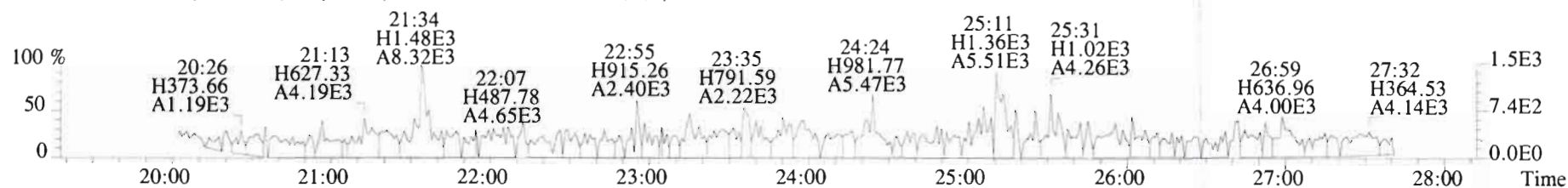
File:200109D2 #1-432 Acq:10-JAN-2020 03:30:28 GC EI+ Voltage SIR Autospec-UltimaF
Sample#7 File Text:Vista Analytical Laboratory VG7 Text:1904021-06RE1 PDI-144RAB-10-20-191113 10.76 Exp:OCDD_DB5
457.7377 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



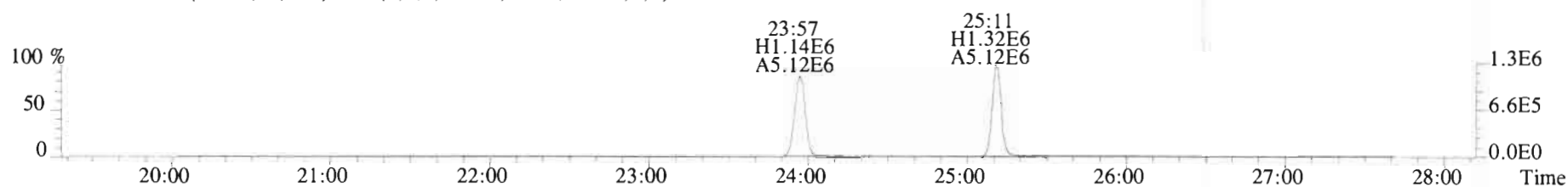
File:200109D2 #1-493 Acq:10-JAN-2020 03:30:28 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text:Vista_Analytical_Laboratory_VG7 Text:1904021-06RE1 PDI-144RAB-10-20-191113 10.76 Exp:OCDD_DB5
 303.9016 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



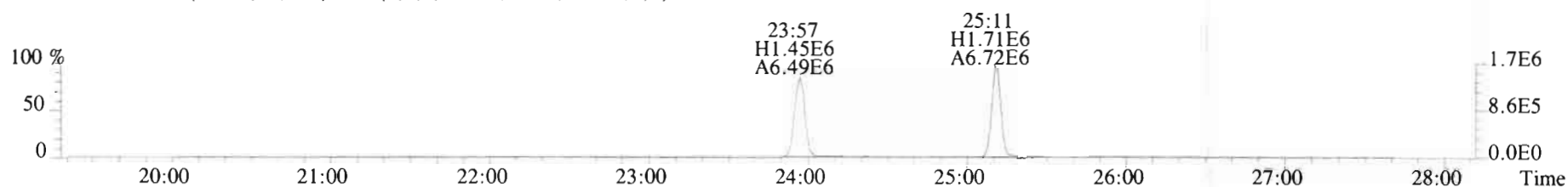
305.8987 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



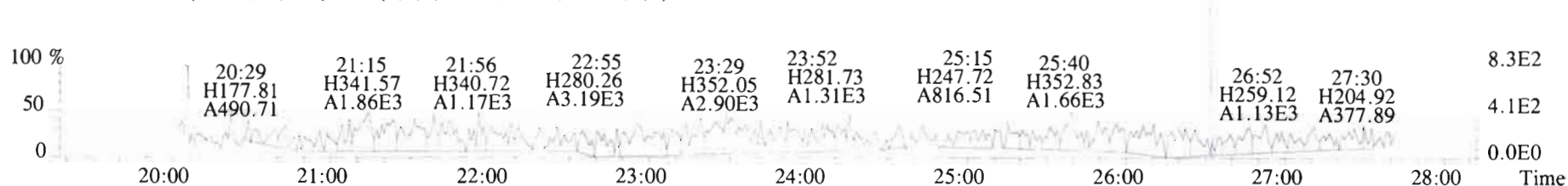
315.9419 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



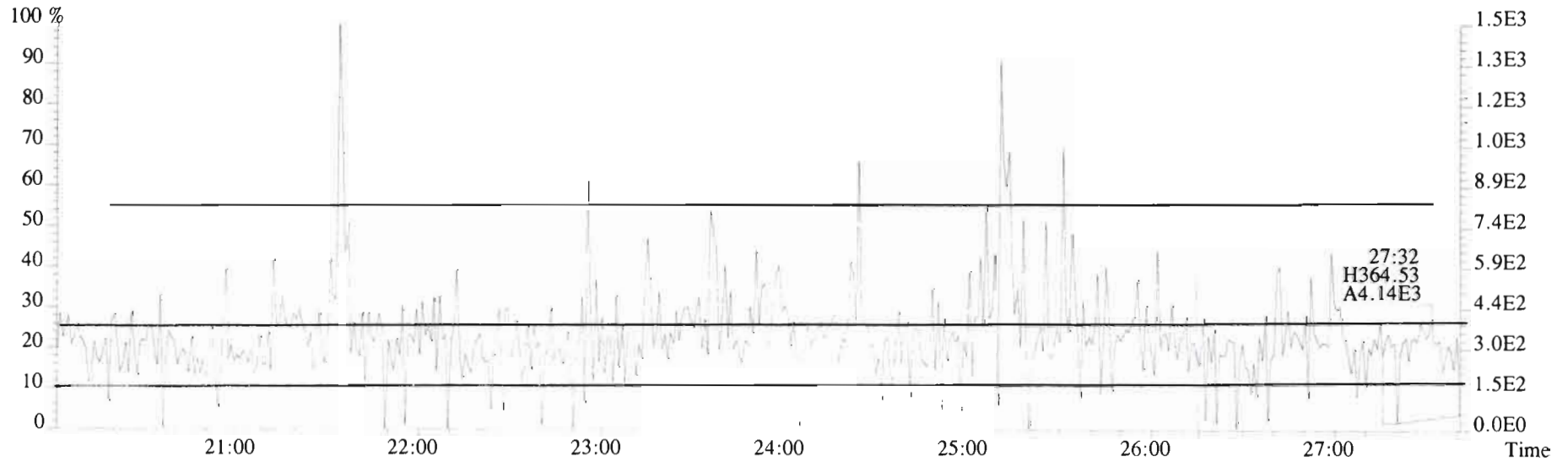
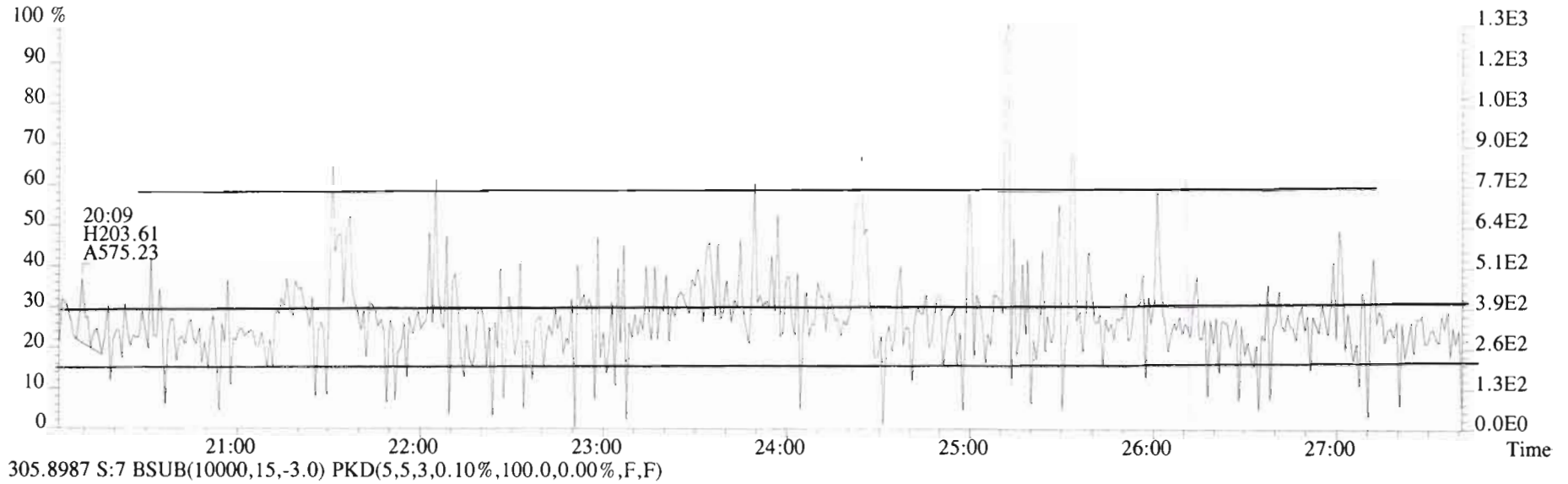
317.9389 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



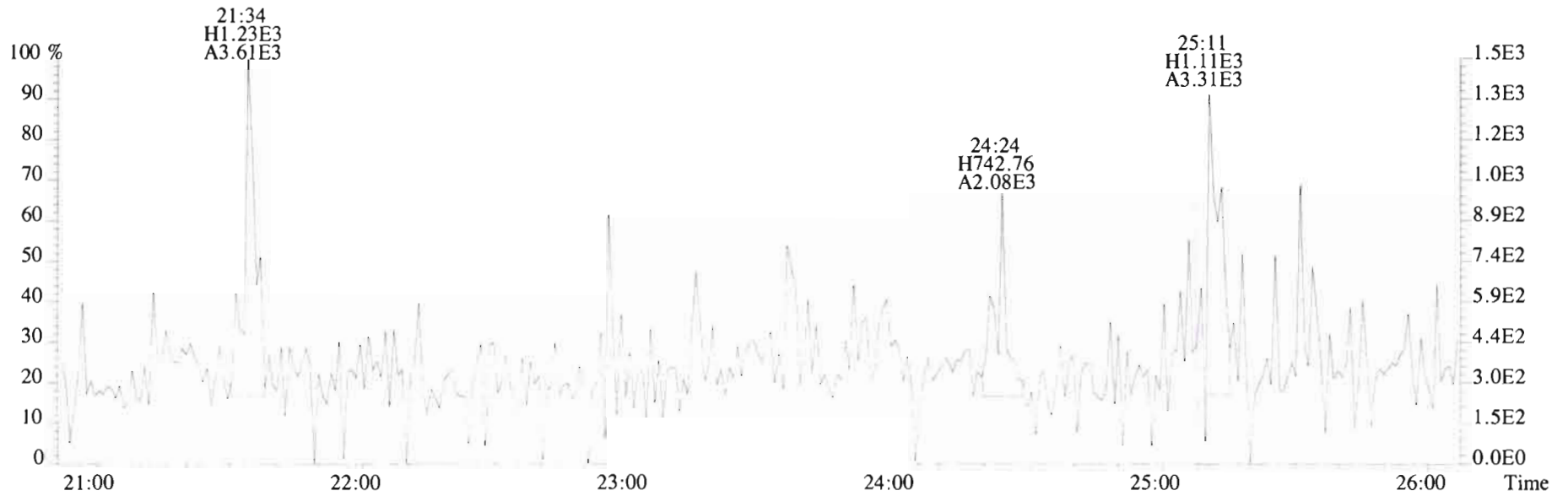
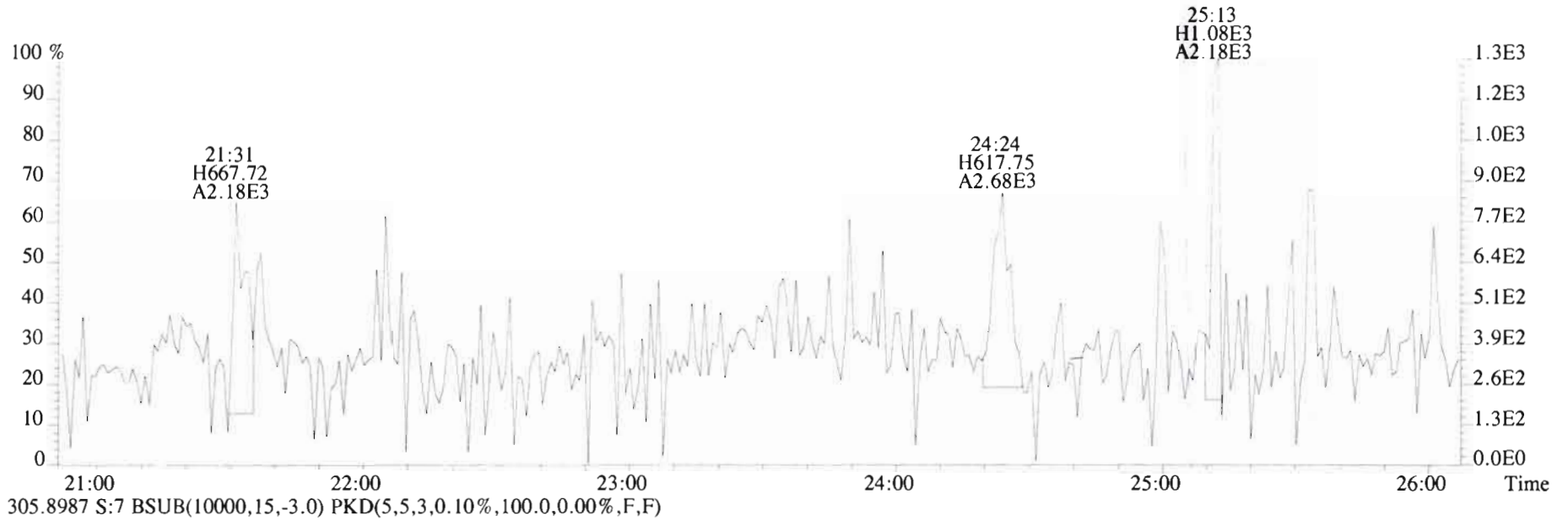
375.8364 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



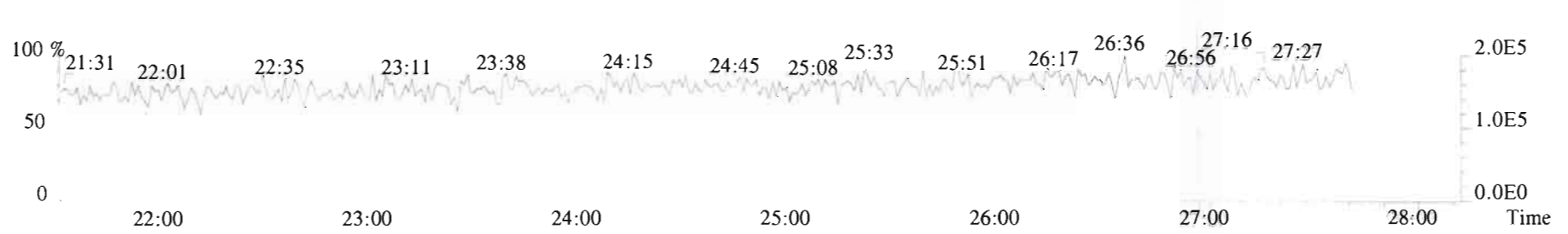
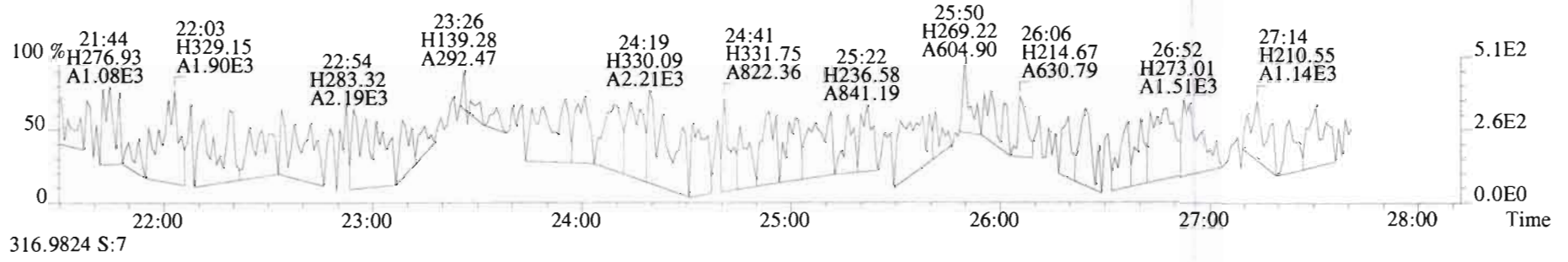
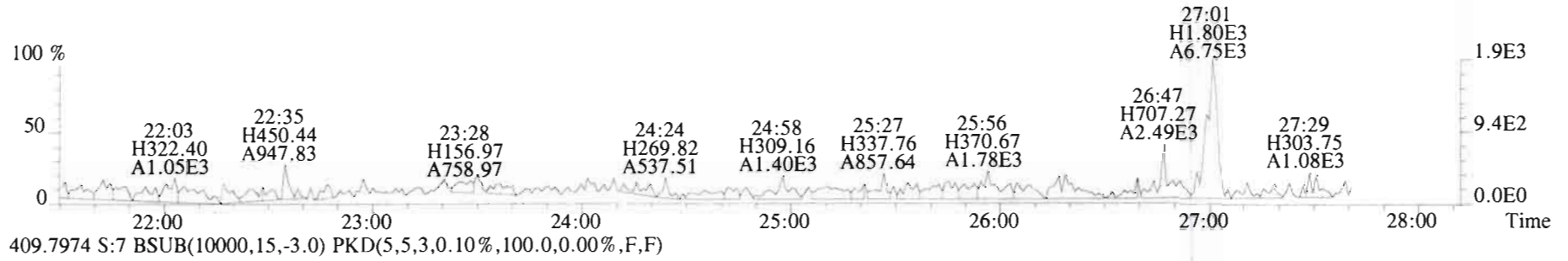
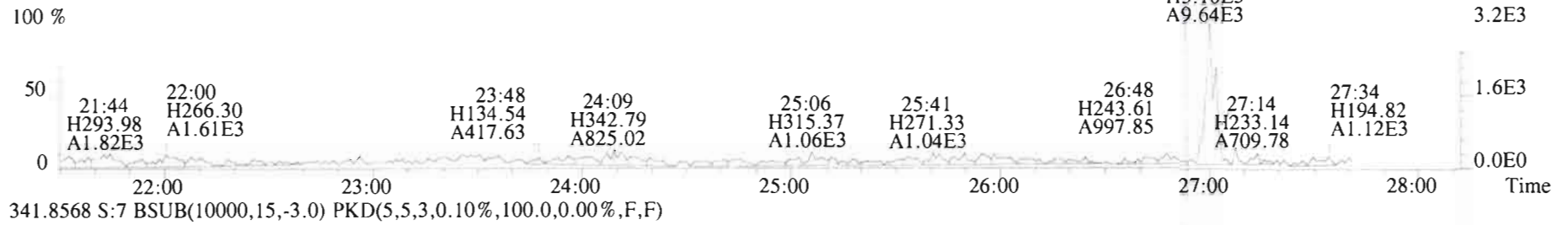
File:200109D2 #1-493 Acq:10-JAN-2020 03:30:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory_VG7 Text:1904021-06RE1 PDI-144RAB-10-20-191113 10.76 Exp:OCDD_DB5
303.9016 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



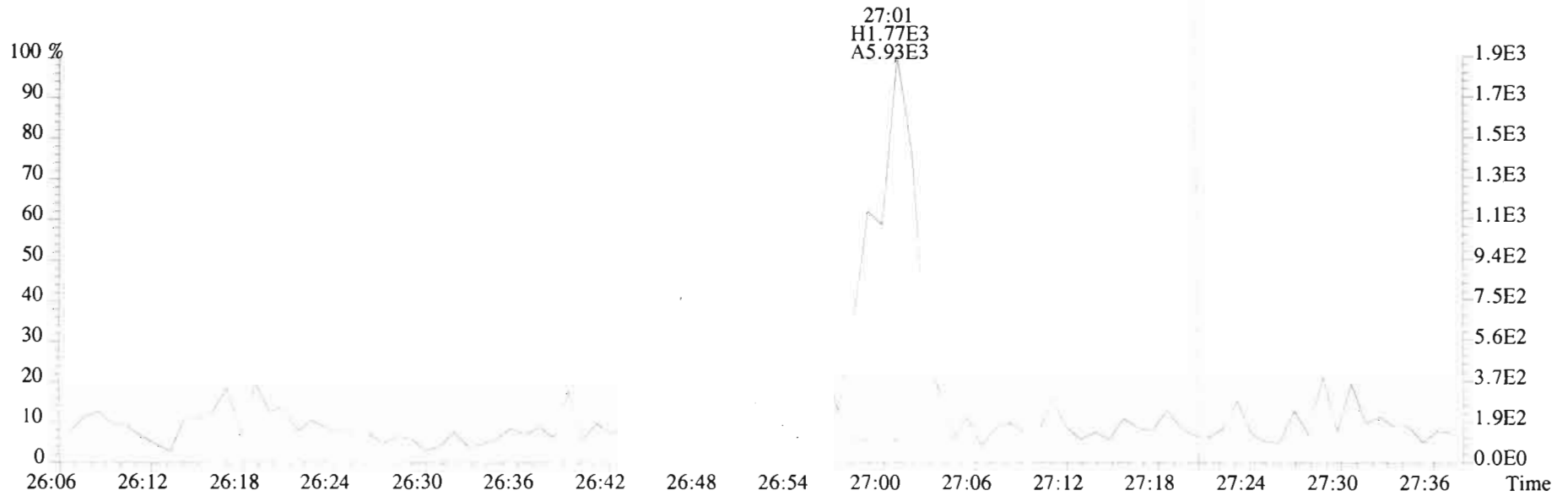
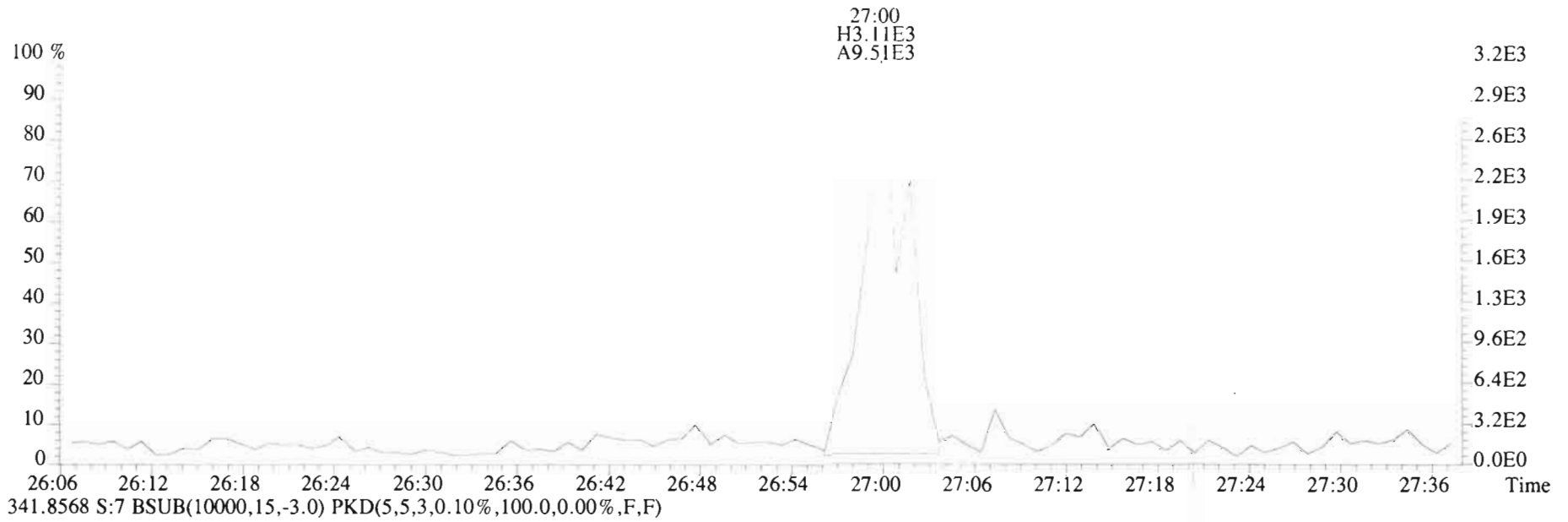
File:200109D2 #1-493 Acq:10-JAN-2020 03:30:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text: Vista Analytical Laboratory_VG7 Text:1904021-06RE1 PDI-144RAB-10-20-191113 10.76 Exp:OCDD_DB5
303.9016 S:7 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



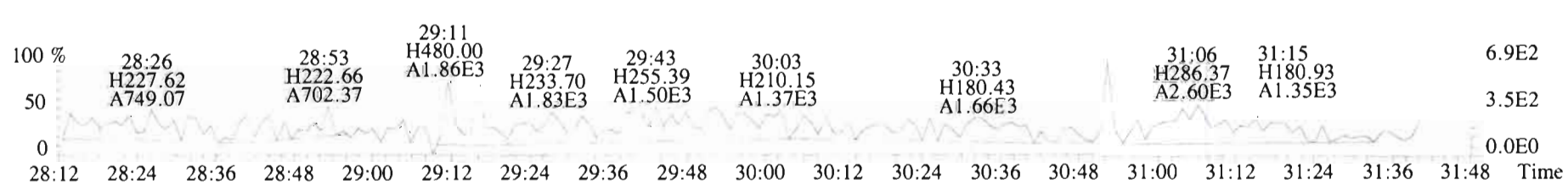
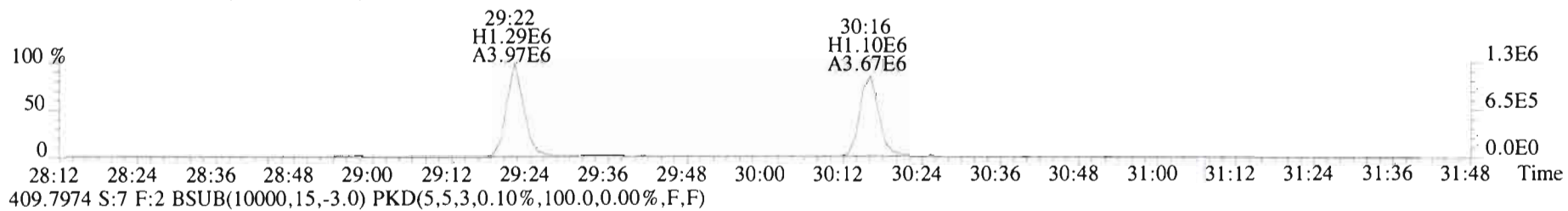
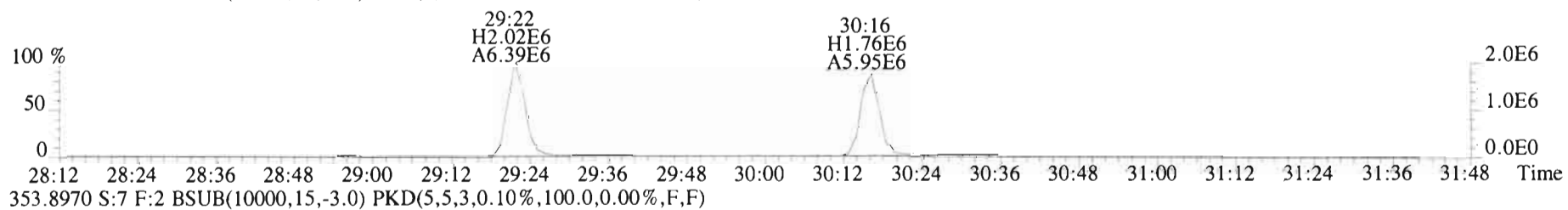
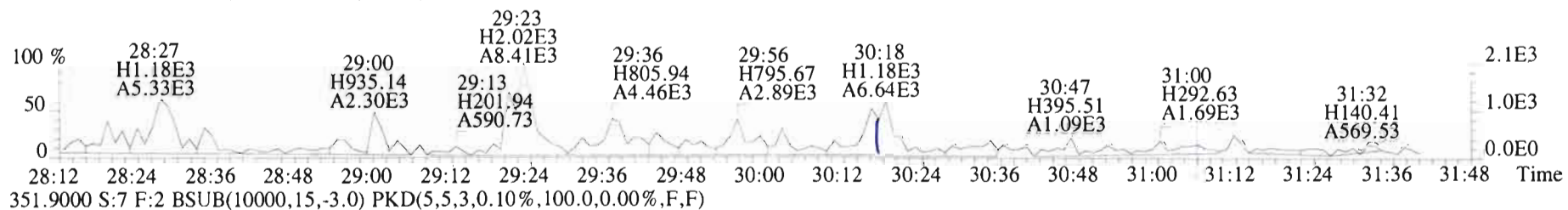
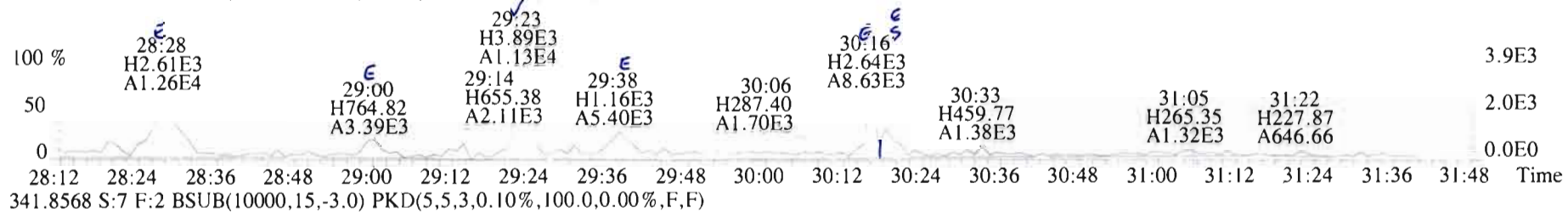
File:200109D2 #1-493 Acq:10-JAN-2020 03:30:28 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text:Vista Analytical Laboratory_VG7 Text:1904021-06REI PDI-144RAB-10-20-191113 10.76 Exp:OCDD_DB5
 339.8597 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



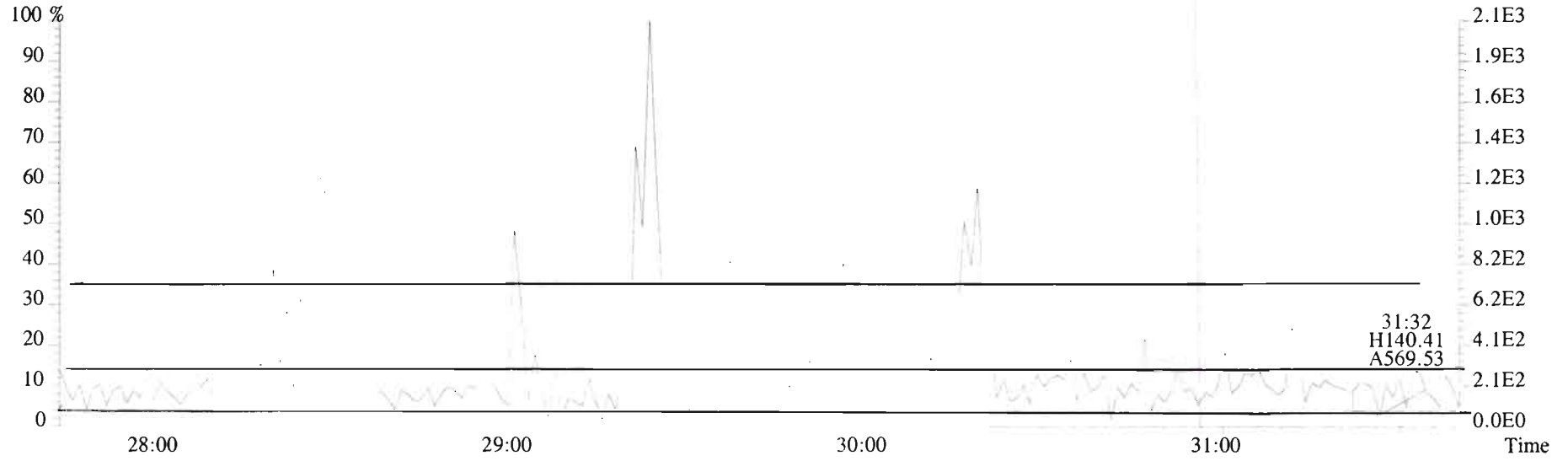
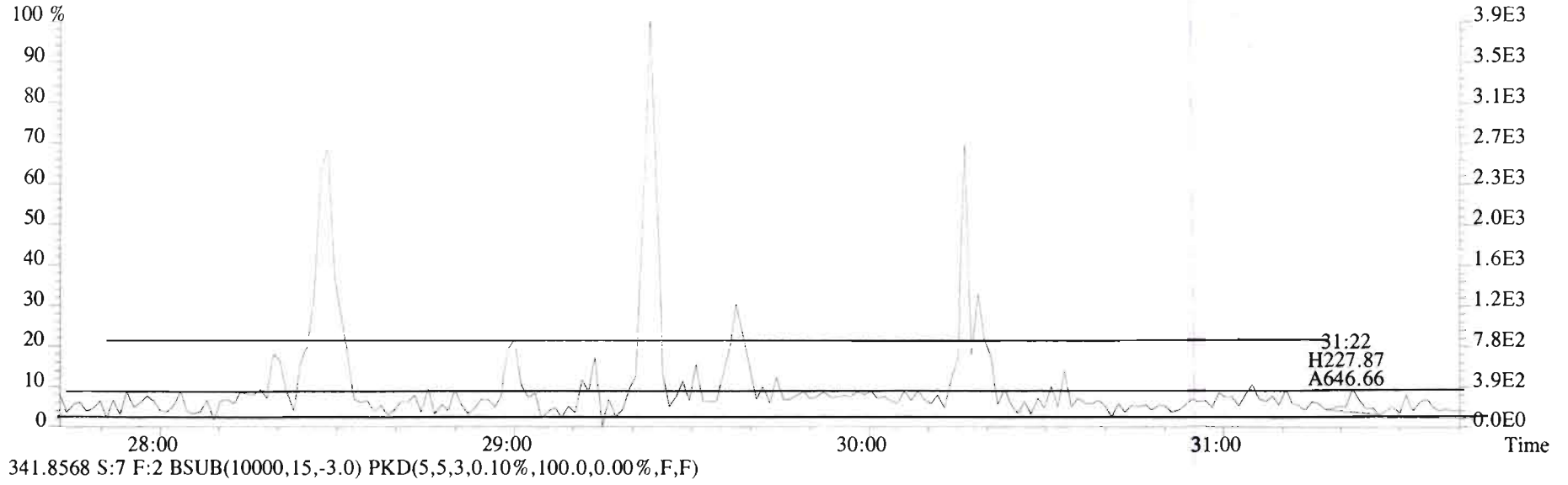
File:200109D2 #1-493 Acq:10-JAN-2020 03:30:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory_VG7 Text:1904021-06RE1 PDI-144RAB-10-20-191113 10.76 Exp:OCDD_DB5
339.8597 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



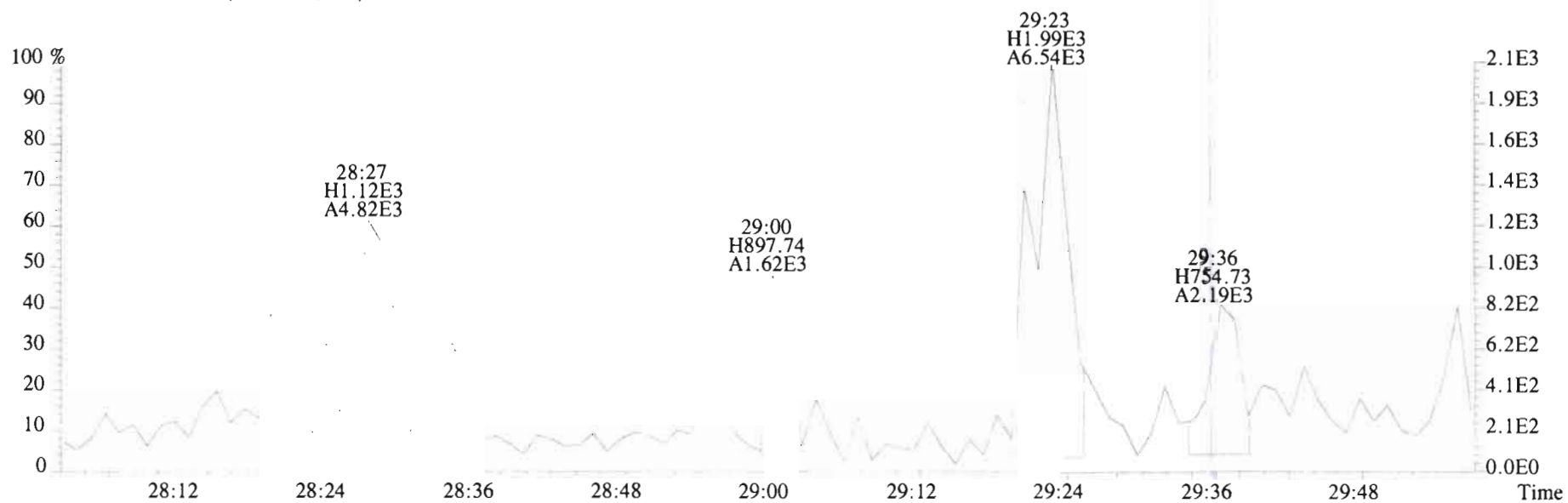
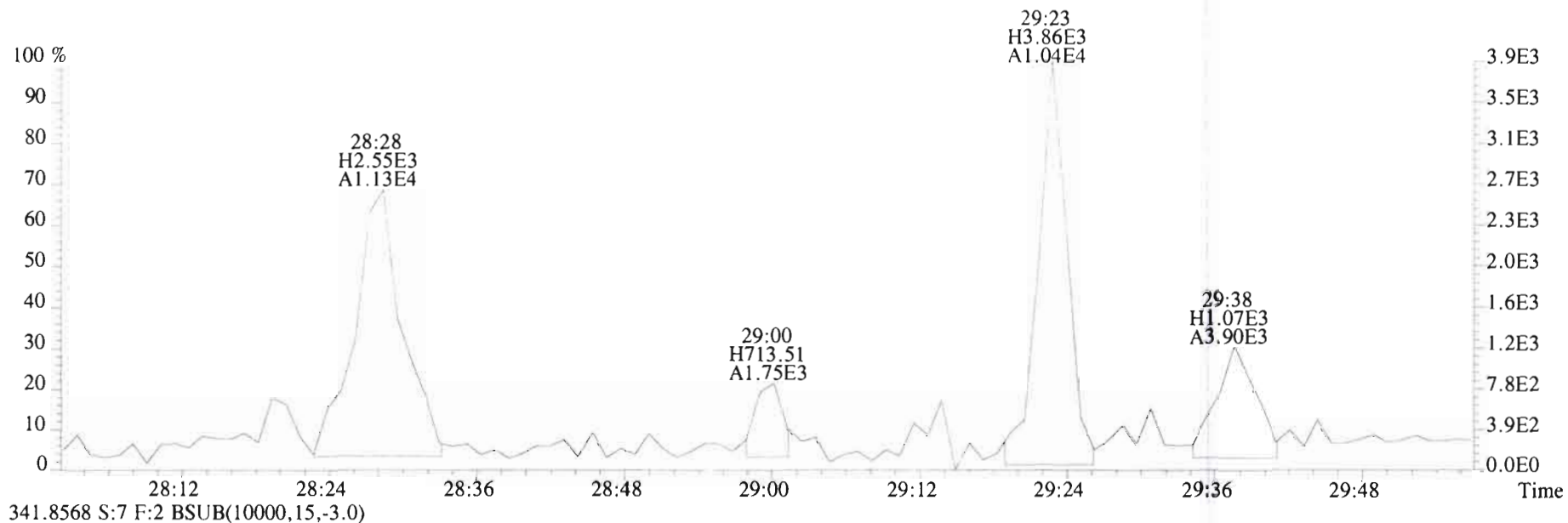
File:200109D2 #1-210 Acq:10-JAN-2020 03:30:28 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text:Vista Analytical Laboratory_VG7 Text:1904021-06RE1 PDI-144RAB-10-20-191113 10.76 Exp:OCDD_DB5
 339.8597 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



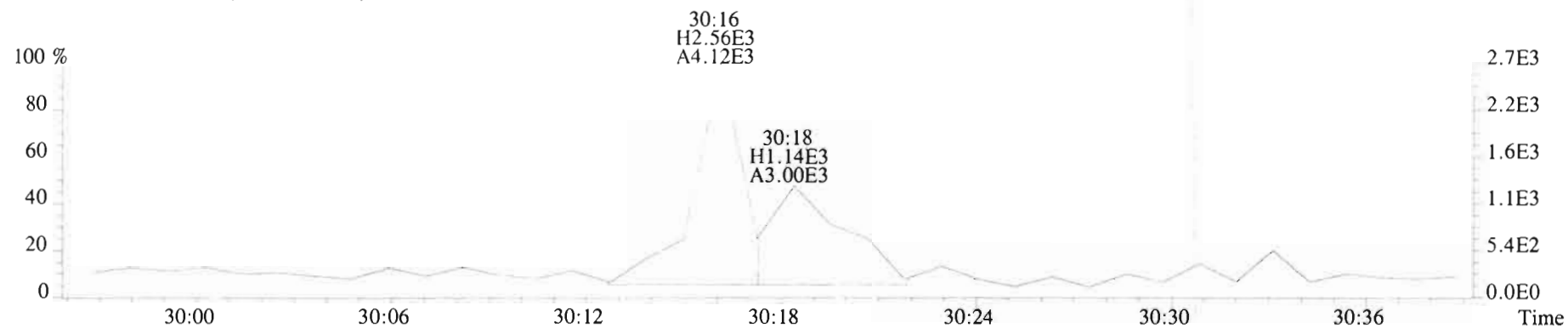
File:200109D2 #1-210 Acq:10-JAN-2020 03:30:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG7 Text:1904021-06RE1 PDI-144RAB-10-20-191113 10.76 Exp:OCDD_DB5
339.8597 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



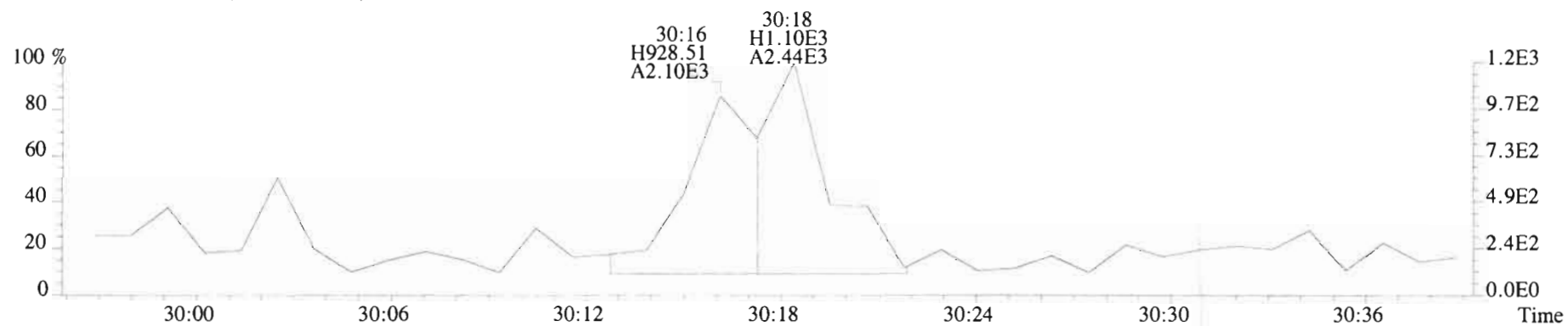
File:200109D2 #1-210 Acq:10-JAN-2020 03:30:28 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text:Vista Analytical Laboratory_VG7 Text:1904021-06RE1 PDI-144RAB-10-20-191113 10.76 Exp:OCDD_DB5
 339.8597 S:7 F:2 BSUB(10000,15,-3.0)



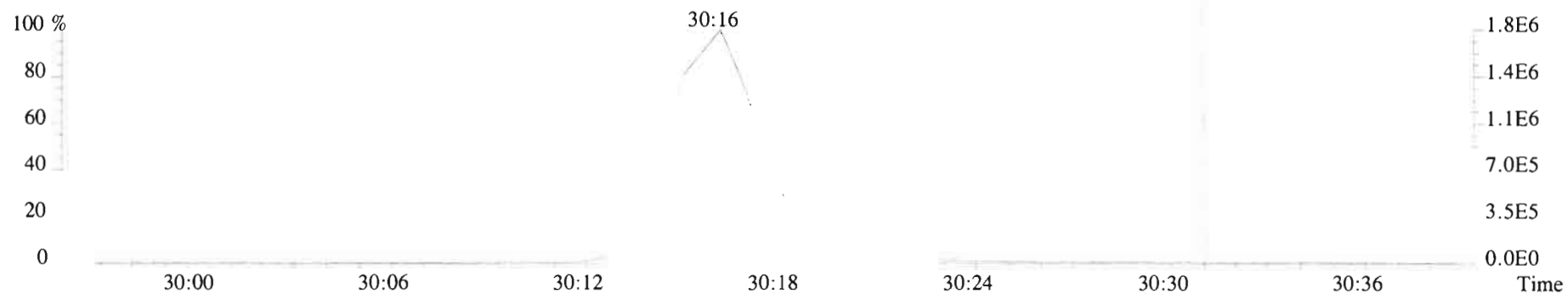
File:200109D2 #1-210 Acq:10-JAN-2020 03:30:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory_VG7 Text:1904021-06RE1 PDI-144RAB-10-20-191113 10.76 Exp:OCDD_DB5
339.8597 S:7 F:2 BSUB(10000,15,-3.0)



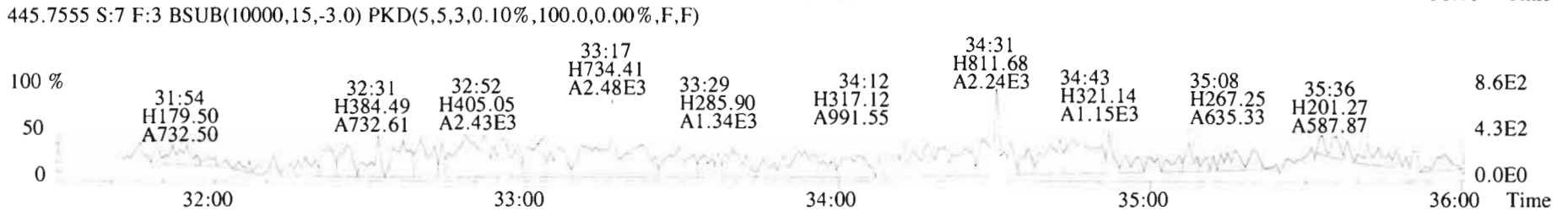
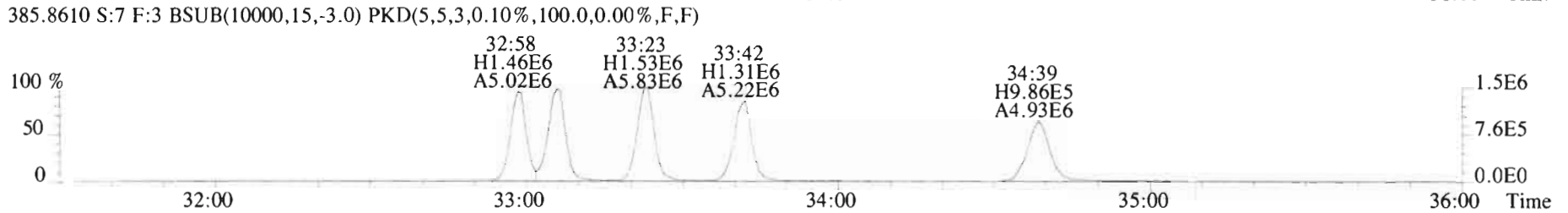
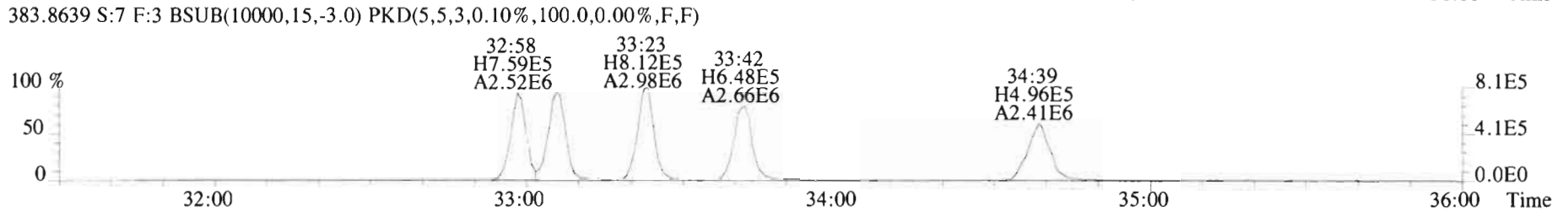
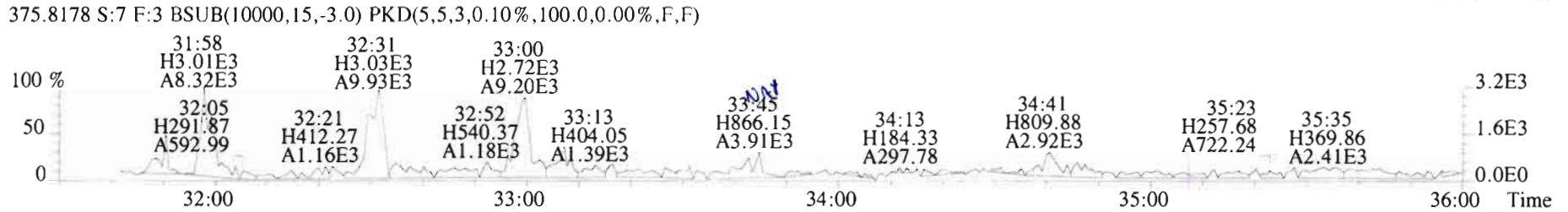
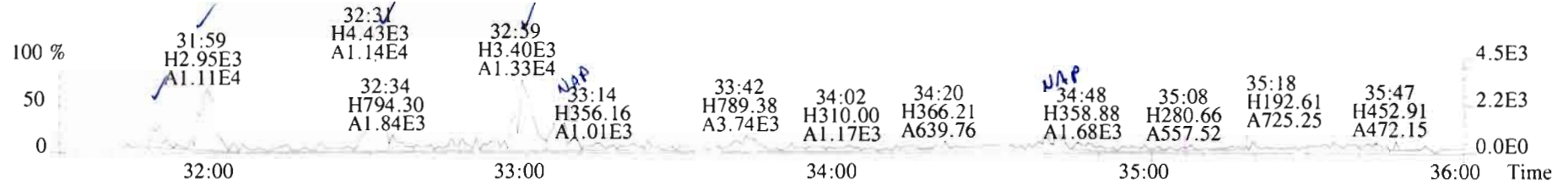
341.8568 S:7 F:2 BSUB(10000,15,-3.0)



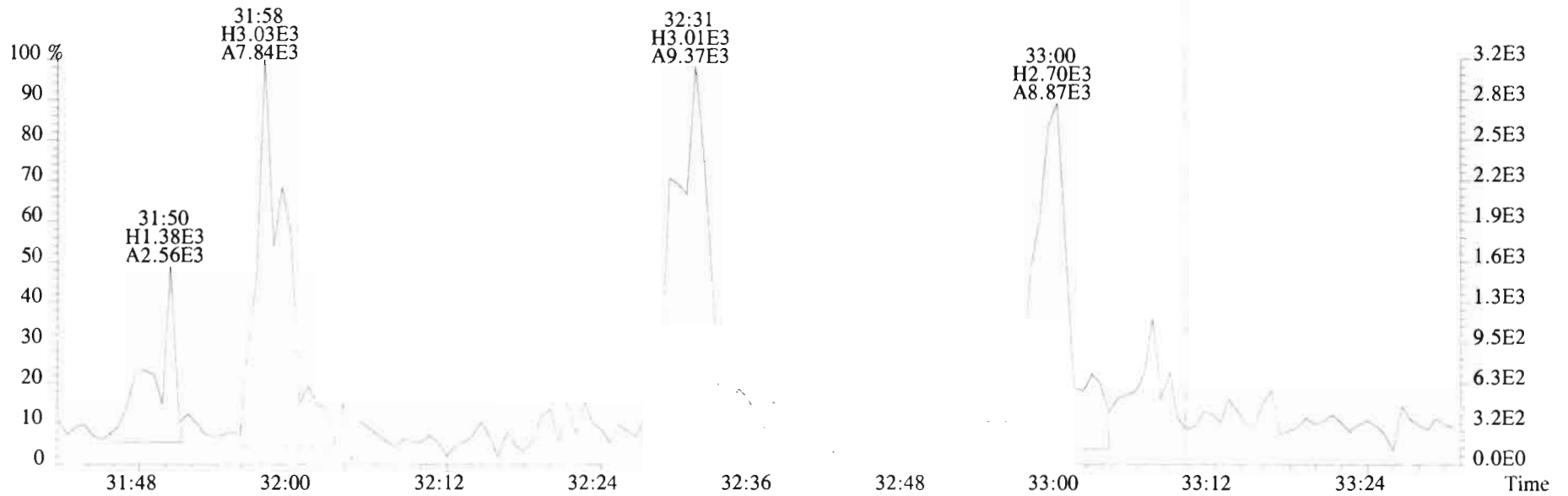
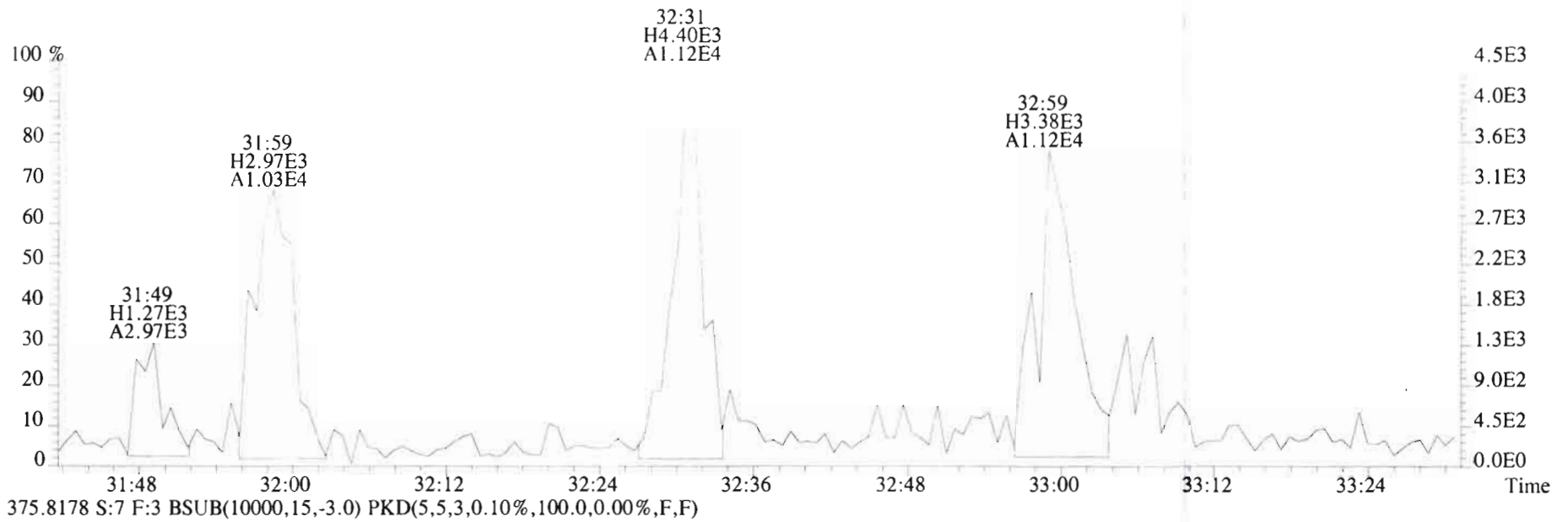
351.9000 S:7 F:2



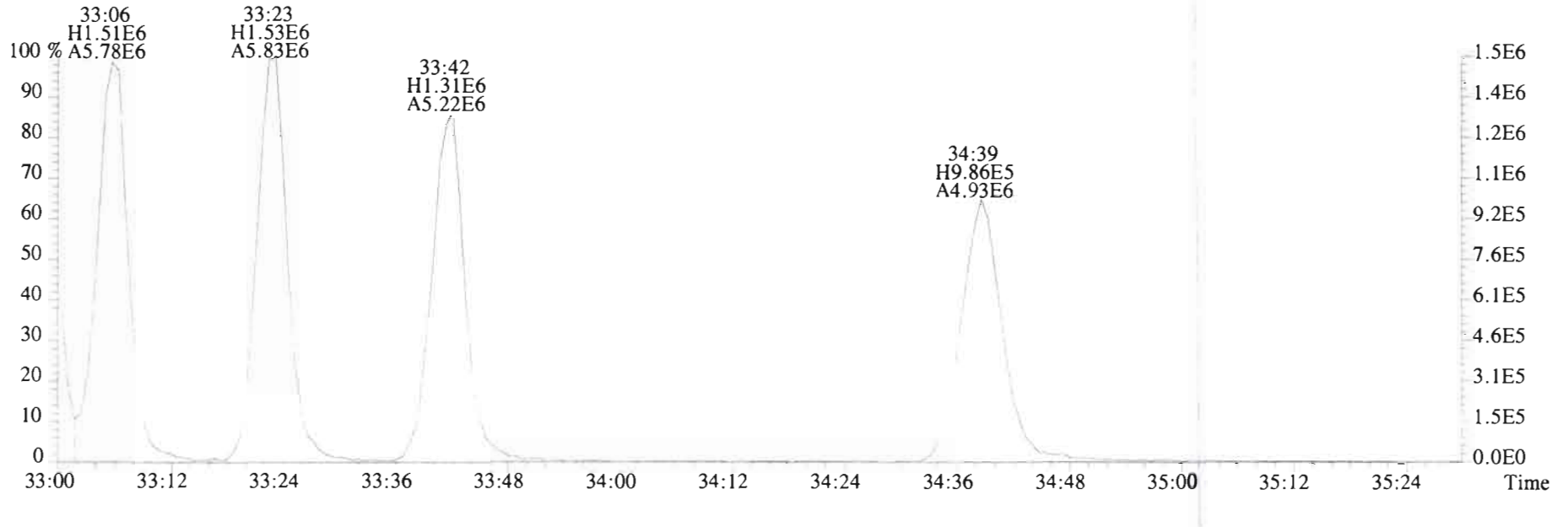
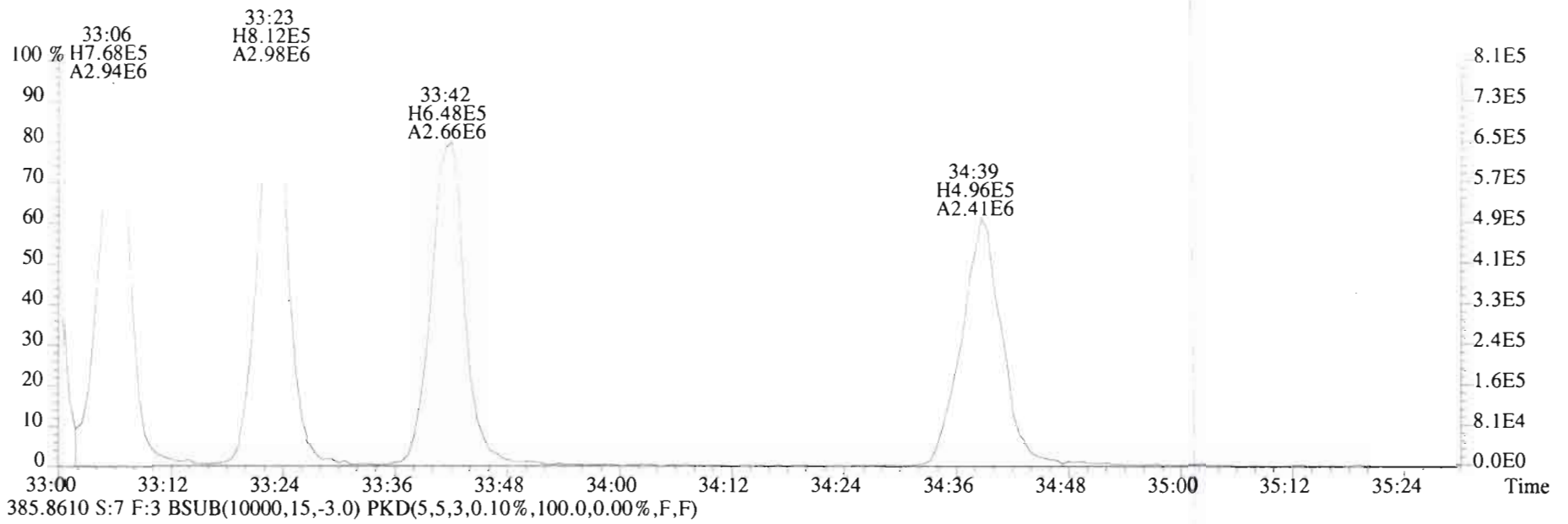
File:200109D2 #1-385 Acq:10-JAN-2020 03:30:28 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text:Vista Analytical Laboratory VG7 Text:1904021-06RE1 PDI-144RAB-10-20-191113 10.76 Exp:OCDD_DB5
 373.8207 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00% .F,F)



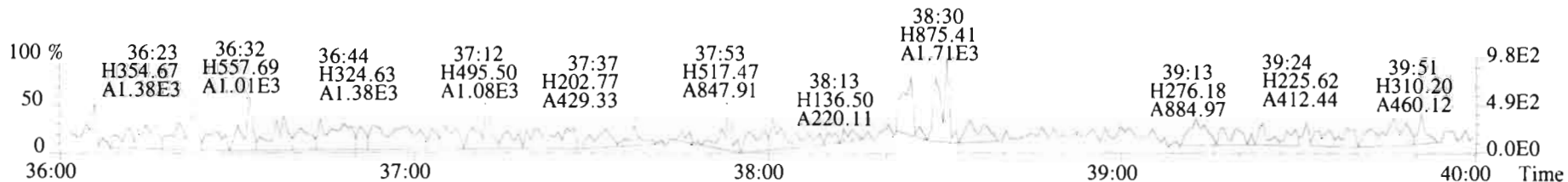
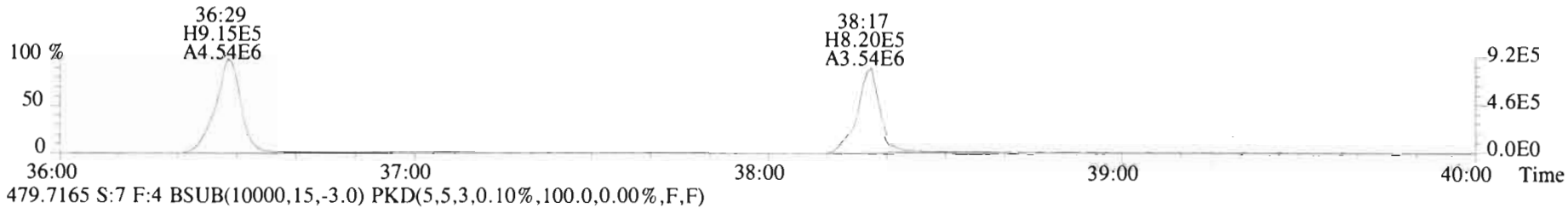
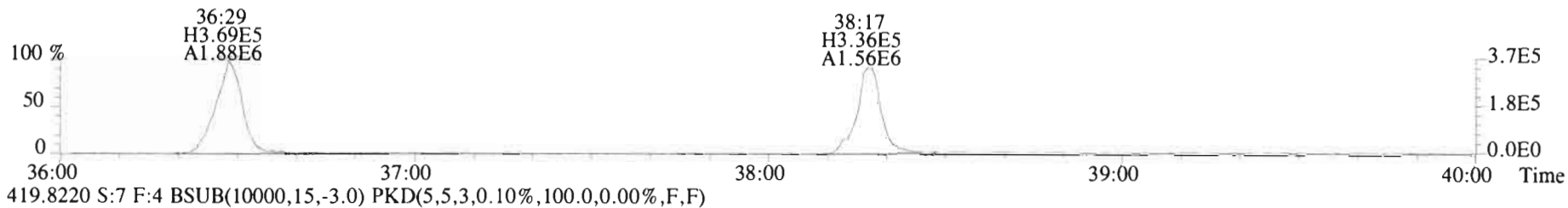
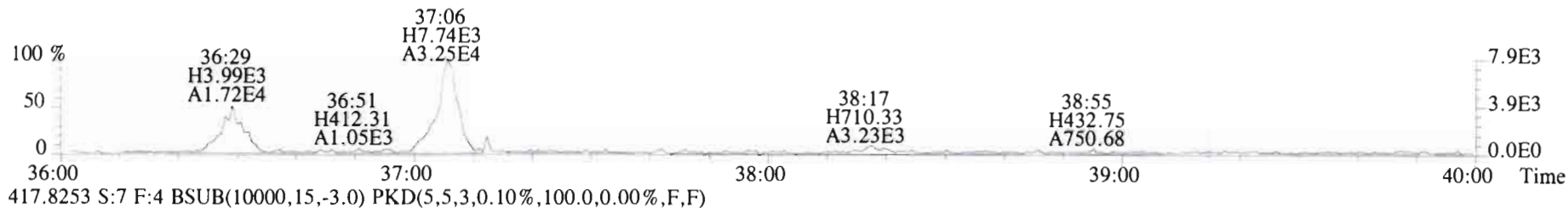
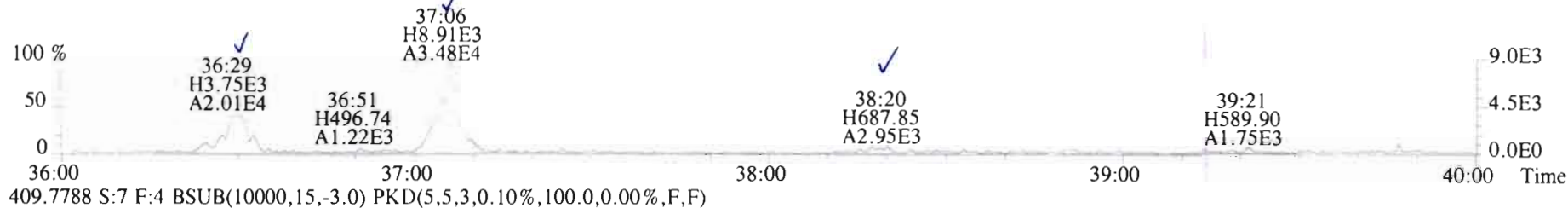
File:200109D2 #1-385 Acq:10-JAN-2020 03:30:28 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text:Vista Analytical Laboratory VG7 Text:1904021-06RE1 PDI-144RAB-10-20-191113 10.76 Exp:OCDD_DB5
 373.8207 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



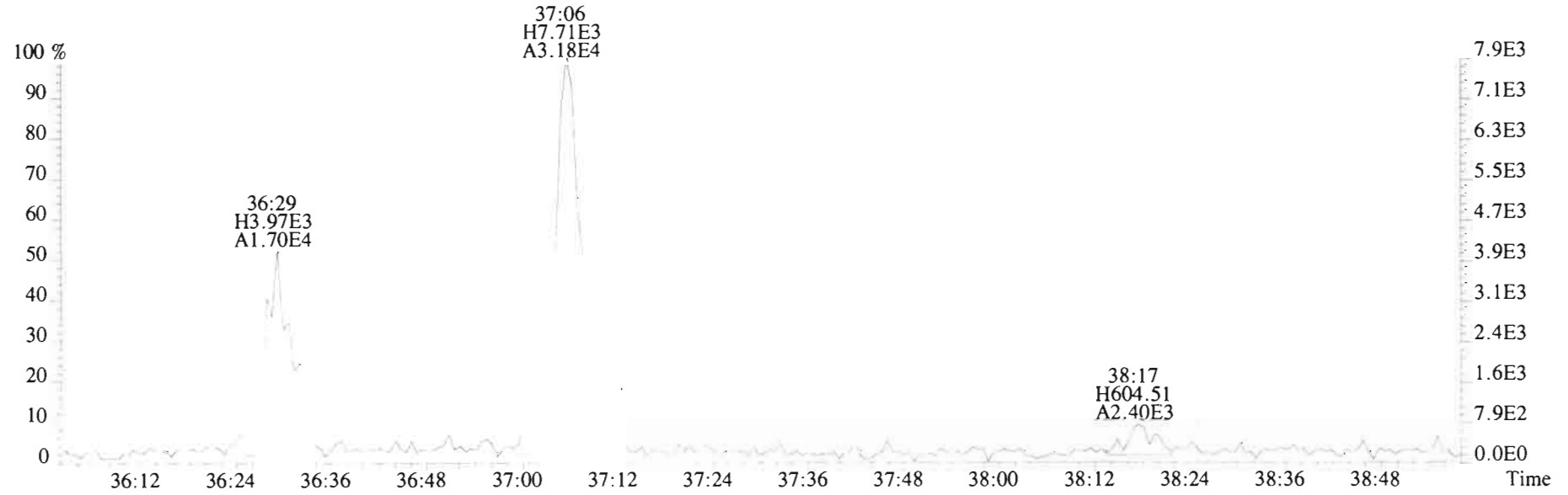
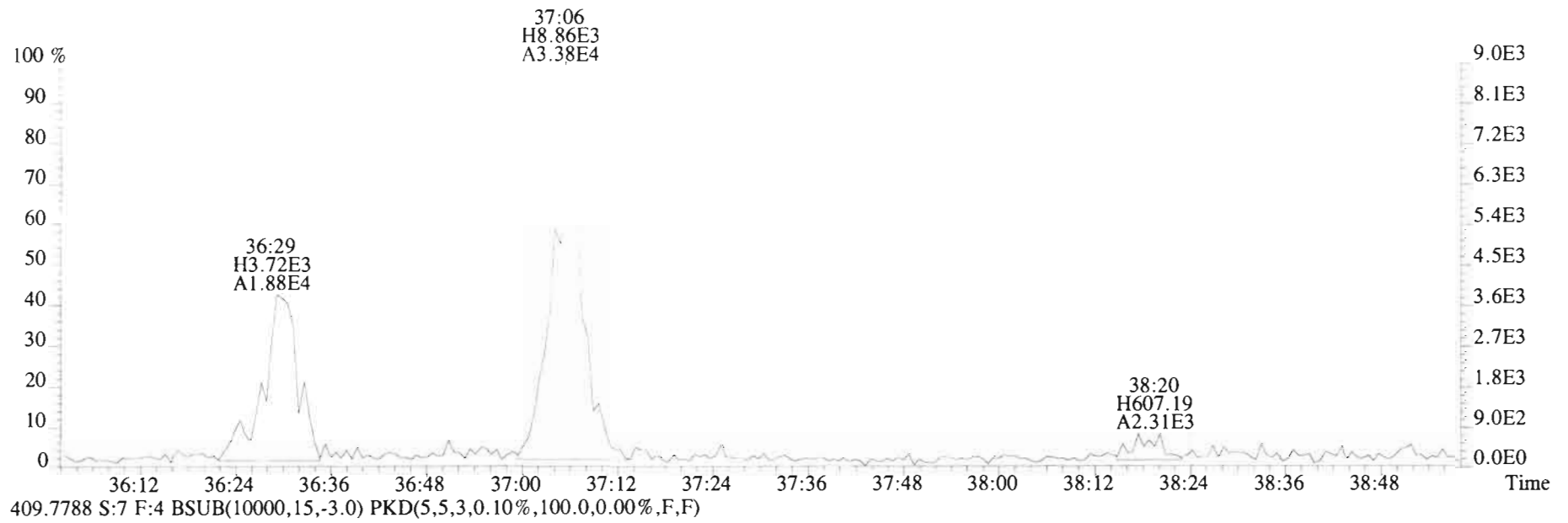
File:200109D2 #1-385 Acq:10-JAN-2020 03:30:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG7 Text:1904021-06RE1 PDI-144RAB-10-20-191113 10.76 Exp:OCDD_DB5
383.8639 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:200109D2 #1-356 Acq:10-JAN-2020 03:30:28 GC EI+ Voltage SIR Autospec-UltimaF
 Sample#7 File Text:Vista Analytical Laboratory_VG7 Text:1904021-06RE1 PDI-144RAB-10-20-191113 10.76 Exp:OCDD_DB5
 407.7818 S:7 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

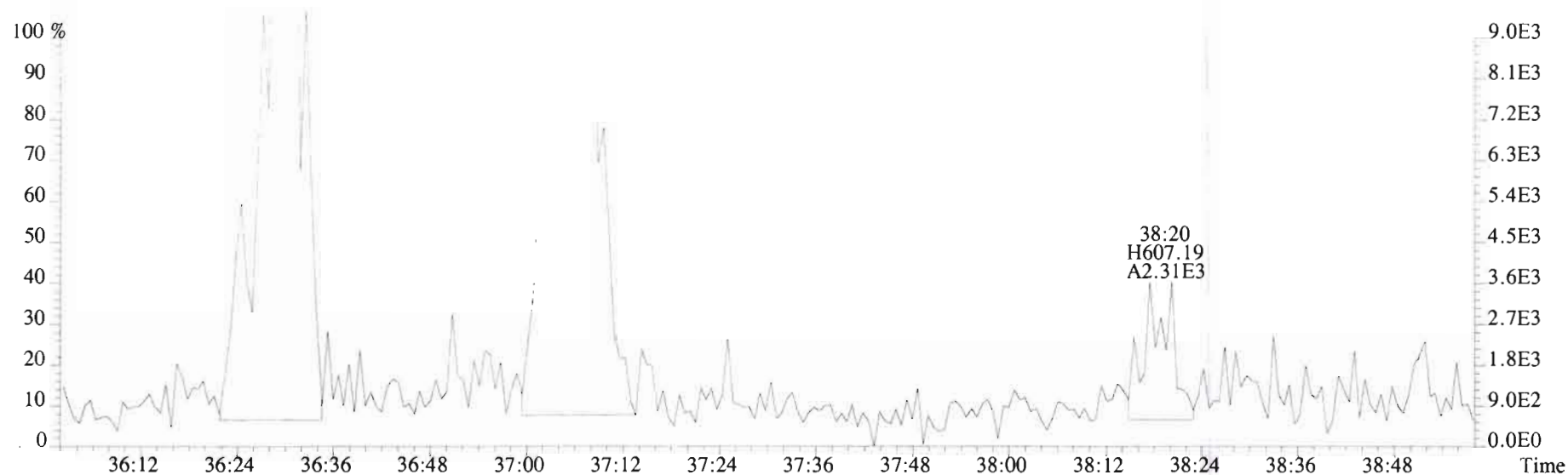


File:200109D2 #1-356 Acq:10-JAN-2020 03:30:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG7 Text:1904021-06RE1 PDI-144RAB-10-20-191113 10.76 Exp:OCDD_DB5
407.7818 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



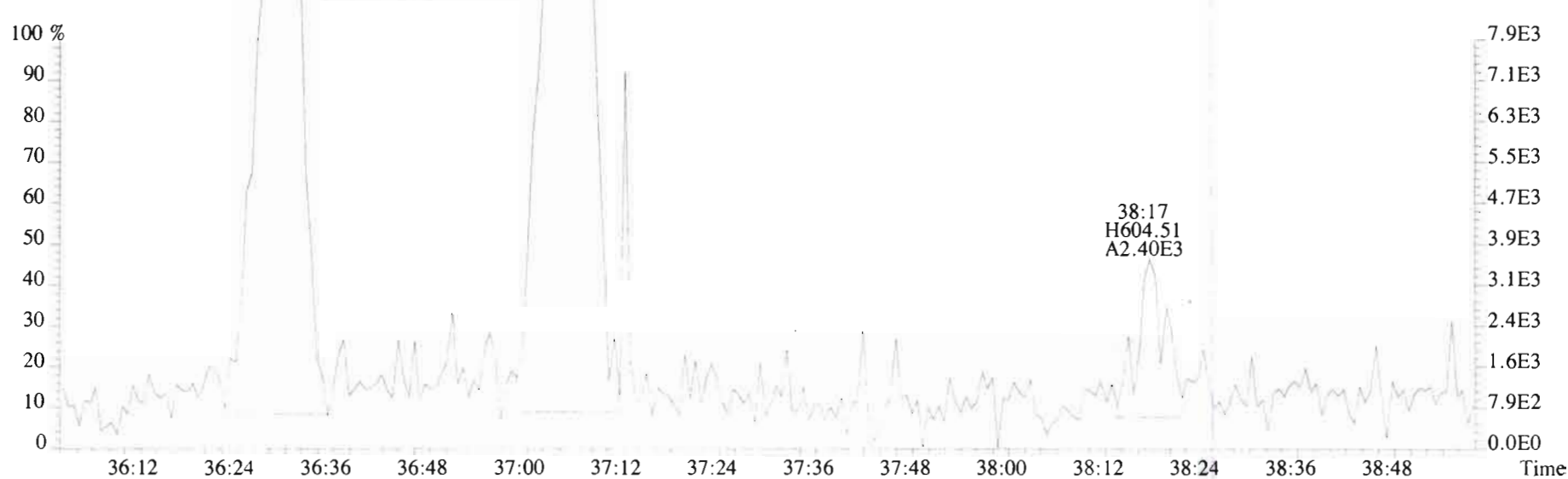
File:200109D2 #1-356 Acq:10-JAN-2020 03:30:28 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG7 Text:1904021-06RE1 PDI-144RAB-10-20-191113 10.76 Exp:OCDD_DB5
407.7818 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

x5.00



409.7788 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

x5.00



File:200109D2 #1-432 Acq:10-JAN-2020 03:30:28 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text:Vista Analytical Laboratory_VG7 Text:1904021-06RE1 PDI-144RAB-10-20-191113 10.76 Exp:OCDD_DB5
 441.7428 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



443.7398 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



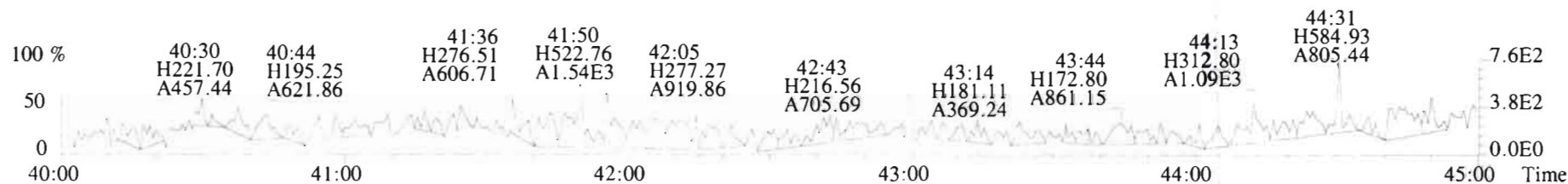
453.7831 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



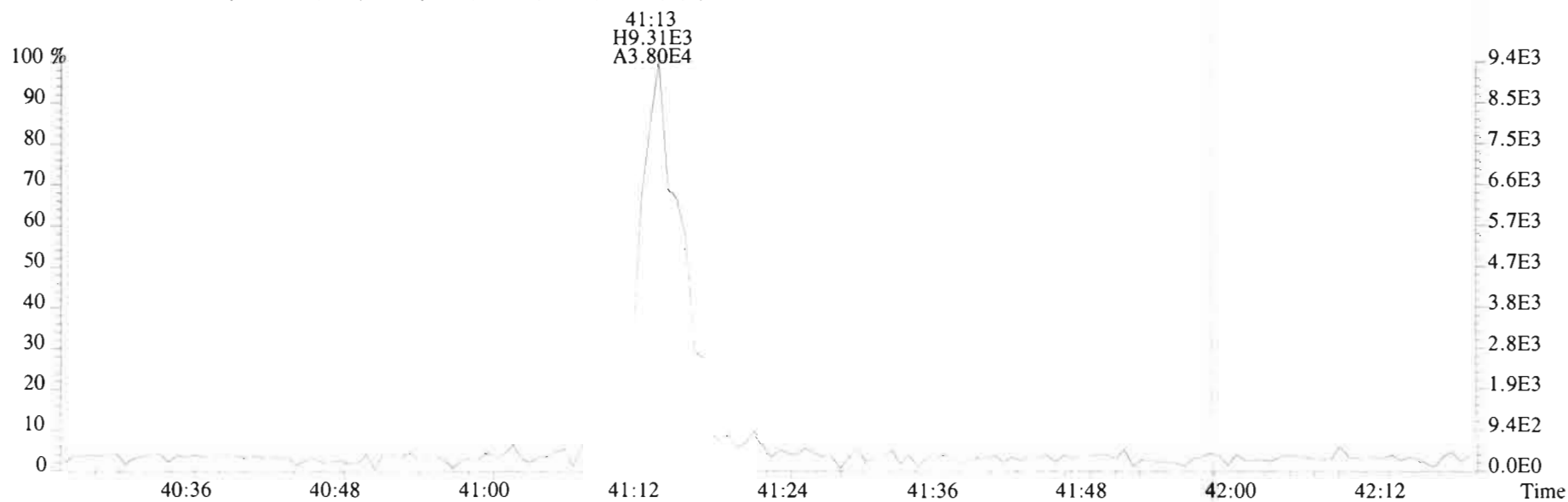
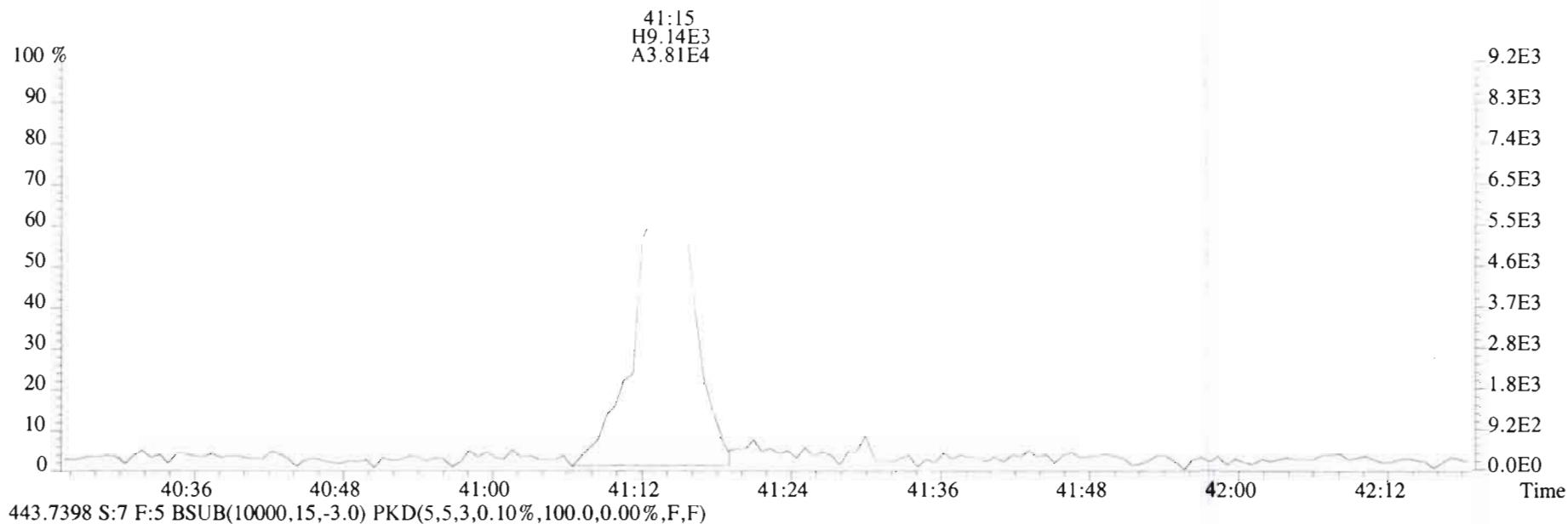
455.7801 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



513.6775 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:200109D2 #1-432 Acq:10-JAN-2020 03:30:28 GC FI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG7 Text:1904021-06RE1 PDI-144RAB-10-20-191113 10.76 Exp:OCDD_DB5
441.7428 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191212D2\191212D2_14.qld

Last Altered: Tuesday, December 17, 2019 14:23:55 Pacific Standard Time

Printed: Tuesday, December 17, 2019 14:25:14 Pacific Standard Time

EL 12/17/19

C7 12/26/19

Method: U:\VG7.PRO\MethDB\1613VG7-12-4-19.mdb 10 Dec 2019 16:21:14

Calibration: 17 Dec 2019 10:07:51

Name: 191212D2_14, Date: 13-DEC-2019, Time: 11:18:43, ID: 1904021-07 PDI-144RAB-20-29-191113,

Description: 1904021-07 PDI-144RAB-20-29-191113 10.72 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

#	Name	Area	IS Area	Wt./Vol.	RRF	RA	Y/N	Pred...	RRT	Pred.RT	RT	Conc.	%Rec	EMPC	DL
1	1 2,3,7,8-TCDD		8.92e4	10.0202	0.905			1.001		26.05					0.240
2	2 1,2,3,7,8-PeCDD		7.80e4	10.0202	0.903			1.001		30.60					0.314
3	3 1,2,3,4,7,8-HxCDD		7.18e4	10.0202	1.101			1.000		33.89					0.823
4	4 1,2,3,6,7,8-HxCDD		8.11e4	10.0202	0.939			1.000		33.98					0.886
5	5 1,2,3,7,8,9-HxCDD	1.88e2	8.37e4	10.0202	0.961	0.921	YES	1.001	1.003	34.32	34.37	0.46675		0.404	0.872
6	6 1,2,3,4,6,7,8-HpCDD	2.78e3	7.69e4	10.0202	0.979	1.061	NO	1.000	1.001	37.75	37.76	7.3681		7.37	0.524
7	7 OCDD	1.90e4	1.40e5	10.0202	0.959	0.902	NO	1.000	1.000	40.99	41.00	56.386		56.4	0.496
8	8 2,3,7,8-TCDF		1.25e5	10.0202	0.950			1.001		25.27					0.251
9	9 1,2,3,7,8-PeCDF		1.19e5	10.0202	0.960			1.001		29.41					0.222
10	10 2,3,4,7,8-PeCDF		1.15e5	10.0202	1.015			1.001		30.33					0.213
11	11 1,2,3,4,7,8-HxCDF		9.42e4	10.0202	1.177			1.000		32.99					0.526
12	12 1,2,3,6,7,8-HxCDF		1.07e5	10.0202	1.069			1.000		33.13					0.512
13	13 2,3,4,6,7,8-HxCDF		9.85e4	10.0202	1.114			1.001		33.74					0.567
14	14 1,2,3,7,8,9-HxCDF		9.23e4	10.0202	1.062			1.000		34.65					0.751
15	15 1,2,3,4,6,7,8-HpCDF	3.35e2	8.47e4	10.0202	1.128	0.935	NO	1.001	1.001	36.52	36.51	0.70039		0.700	0.285
16	16 1,2,3,4,7,8,9-HpCDF		7.27e4	10.0202	1.280			1.000		38.28					0.260
17	17 OCDF	9.49e2	1.77e5	10.0202	0.947	0.996	NO	1.000	1.001	41.20	41.23	2.2656		2.27	0.335
18	18 13C-2,3,7,8-TCDD	8.92e4	1.51e5	10.0202	1.095	0.768	NO	1.021	1.022	26.00	26.02	107.97	54.1		0.434
19	19 13C-1,2,3,7,8-PeCDD	7.80e4	1.51e5	10.0202	0.881	0.638	NO	1.187	1.201	30.22	30.58	117.36	58.8		0.257
20	20 13C-1,2,3,4,7,8-Hx...	7.18e4	1.83e5	10.0202	0.642	1.281	NO	1.014	1.014	33.86	33.88	121.97	61.1		0.820
21	21 13C-1,2,3,6,7,8-Hx...	8.11e4	1.83e5	10.0202	0.856	1.257	NO	1.017	1.017	33.98	33.98	103.38	51.8		0.615
22	22 13C-1,2,3,7,8,9-Hx...	8.37e4	1.83e5	10.0202	0.807	1.225	NO	1.026	1.027	34.28	34.28	113.13	56.7		0.653
23	23 13C-1,2,3,4,6,7,8-H...	7.69e4	1.83e5	10.0202	0.654	1.054	NO	1.126	1.130	37.61	37.74	128.26	64.3		0.944
24	24 13C-OCDD	1.40e5	1.83e5	10.0202	0.580	0.907	NO	1.226	1.227	40.95	40.99	263.44	66.0		0.614
25	25 13C-2,3,7,8-TCDF	1.25e5	2.39e5	10.0202	1.035	0.782	NO	0.992	0.991	25.25	25.24	101.05	50.6		0.363
26	26 13C-1,2,3,7,8-PeCDF	1.19e5	2.39e5	10.0202	0.854	1.643	NO	1.154	1.154	29.38	29.39	116.58	58.4		0.501
27	27 13C-2,3,4,7,8-PeCDF	1.15e5	2.39e5	10.0202	0.847	1.523	NQ	1.189	1.190	30.27	30.30	112.88	56.6		0.505
28	28 13C-1,2,3,4,7,8-Hx...	9.42e4	1.83e5	10.0202	0.832	0.519	NO	0.987	0.988	32.97	32.99	123.49	61.9		1.08
29	29 13C-1,2,3,6,7,8-Hx...	1.07e5	1.83e5	10.0202	1.034	0.516	NO	0.991	0.992	33.09	33.12	112.28	56.3		0.867
30	30 13C-2,3,4,6,7,8-Hx...	9.85e4	1.83e5	10.0202	0.953	0.503	NO	1.009	1.009	33.70	33.71	112.63	56.4		0.941
31	31 13C-1,2,3,7,8,9-Hx...	9.23e4	1.83e5	10.0202	0.828	0.524	NO	1.039	1.038	34.69	34.65	121.62	60.9		1.08

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191212D2\191212D2_14.qld

Last Altered: Tuesday, December 17, 2019 14:23:55 Pacific Standard Time

Printed: Tuesday, December 17, 2019 14:25:14 Pacific Standard Time

Name: 191212D2_14, Date: 13-DEC-2019, Time: 11:18:43, ID: 1904021-07 PDI-144RAB-20-29-191113,

Description: 1904021-07 PDI-144RAB-20-29-191113 10.72 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

#	Name	Area	IS Area	Wt./Vol.	RRF	RA	Y/N	Pred...	RRT	Pred.RT	RT	Conc.	%Rec	EMPC	DL
32	32 13C-1,2,3,4,6,7,8-H...	8.47e4	1.83e5	10.0202	0.757	0.434	NO	1.093	1.092	36.50	36.49	121.94	61.1		0.679
33	33 13C-1,2,3,4,7,8,9-H...	7.27e4	1.83e5	10.0202	0.581	0.441	NO	1.143	1.146	38.18	38.28	136.47	68.4		0.885
34	34 13C-OCDF	1.77e5	1.83e5	10.0202	0.689	0.913	NO	1.233	1.234	41.18	41.20	279.51	70.0		0.597
35	35 37Cl-2,3,7,8-TCDD	5.95e4	1.51e5	10.0202	1.198			1.022	1.023	26.02	26.05	65.795	82.4		0.129
36	36 13C-1,2,3,4-TCDD	1.51e5	1.51e5	10.0202	1.000	0.785	NO	1.000	1.000	25.50	25.46	199.60	100.0		0.475
37	37 13C-1,2,3,4-TCDF	2.39e5	2.39e5	10.0202	1.000	0.788	NO	1.000	1.000	24.06	24.02	199.60	100.0		0.375
38	38 13C-1,2,3,4,6,9-Hx...	1.83e5	1.83e5	10.0202	1.000	0.500	NO	1.000	1.000	33.42	33.40	199.60	100.0		0.897
39	39 Total Tetra-Dioxins		8.92e4	10.0202	0.901			0.000		25.50					0.134
40	40 Total Penta-Dioxins		7.80e4	10.0202	0.872			0.000		30.00					0.160
41	41 Total Hexa-Dioxins		0.00e0	10.0202	0.976			0.000		33.80		0.00000		0.950	0.336
42	42 Total Hepta-Dioxins		7.69e4	10.0202	0.989			0.000		37.75		17.460		17.5	0.519
43	43 Total Tetra-Furans		1.25e5	10.0202	0.943			0.000		24.00					0.121
44	44 1st Func. Penta-Fur...		0.00e0	10.0202	0.940			0.000		27.63		0.00000		0.349	0.0506
45	45 Total Penta-Furans		0.00e0	10.0202	0.940			0.000		30.00					0.131
46	46 Total Hexa-Furans		0.00e0	10.0202	1.078			0.000		33.00		1.1544		1.39	0.599
47	47 Total Hepta-Furans		0.00e0	10.0202	1.135			0.000		37.75		2.3026		2.30	0.288

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191212D2\191212D2_14.qld

Last Altered: Tuesday, December 17, 2019 14:23:55 Pacific Standard Time

Printed: Tuesday, December 17, 2019 14:25:14 Pacific Standard Time

Method: U:\VG7.PRO\MethDB\1613VG7-12-4-19.mdb 10 Dec 2019 16:21:14

Calibration: 17 Dec 2019 10:07:51

Name: 191212D2_14, Date: 13-DEC-2019, Time: 11:18:43, ID: 1904021-07 PDI-144RAB-20-29-191113,

Description: 1904021-07 PDI-144RAB-20-29-191113 10.72 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

Tetra-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1									

Penta-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1									

Hexa-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	5 1,2,3,7,8,9-HxCDD	YES	34.37	90.216	46080.836	0.000	MM	0.0000	0.40
2	41 Total Hexa-Dioxins	YES	32.44	116.524	43866.056	0.000	MM	0.0000	0.55

Hepta-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	NO	37.76	1431.551	39476.934	72.308	bb	7.3681	7.37
2	42 Total Hepta-Dioxins	NO	36.89	1916.311	39476.934	99.983	bb	10.0922	10.09

Tetra-Furans

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1									

Penta-Furans function 1

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	44 1st Func. Penta-Furans	YES	27.03	116.864	71751.683	0.000	MM	0.0000	0.35

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\191212D2\191212D2_14.qld

Last Altered: Tuesday, December 17, 2019 14:23:55 Pacific Standard Time

Printed: Tuesday, December 17, 2019 14:25:14 Pacific Standard Time

Name: 191212D2_14, Date: 13-DEC-2019, Time: 11:18:43, ID: 1904021-07 PDI-144RAB-20-29-191113,
 Description: 1904021-07 PDI-144RAB-20-29-191113 10.72 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

Penta-Furans

#	Name	NY	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1									

Hexa-Furans

#	Name	NY	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	46 Total Hexa-Furans	NO	34.37	107.775	33289.061	4.176	bb	0.3867	0.39
2	46 Total Hexa-Furans	NO	33.56	101.763	33289.061	3.647	bb	0.3378	0.34
3	46 Total Hexa-Furans	YES	33.25	70.251	33289.061	0.000	bb	0.0000	0.24
4	46 Total Hexa-Furans	NO	32.06	121.602	33289.061	4.642	MM	0.4299	0.43

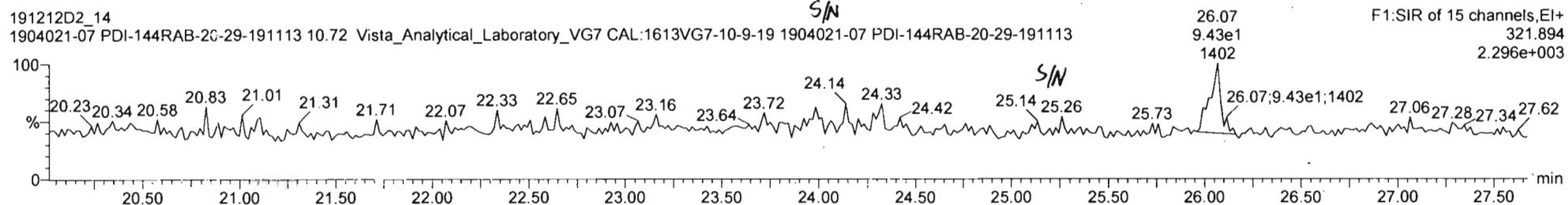
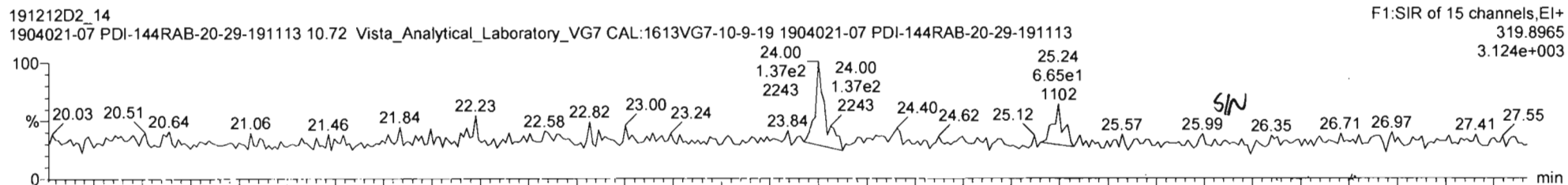
Hepta-Furans

#	Name	NY	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1	47 Total Hepta-Furans	NO	37.09	353.111	23957.702	18.217	bb	1.6022	1.60
2	15 1,2,3,4,6,7,8-HpCDF	NO	36.51	162.004	25655.092	7.914	bb	0.7004	0.70

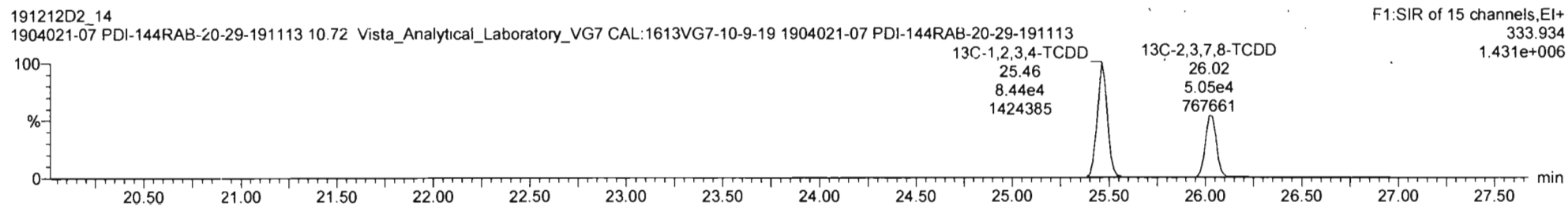
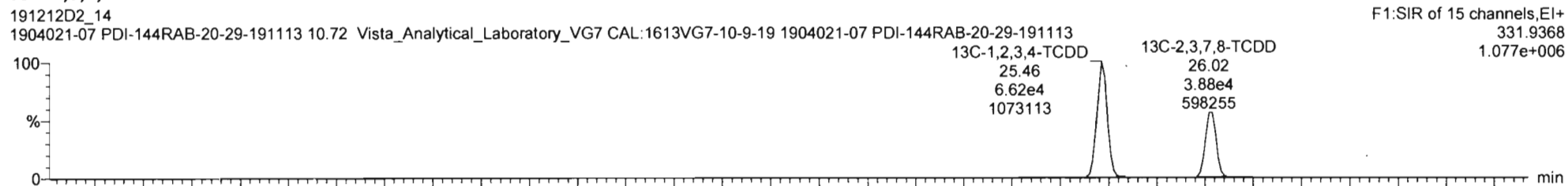
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Calibration: 17 Dec 2019 09:58:24

Name: 191212D2_14, Date: 13-DEC-2019, Time: 11:18:43, ID: 1904021-07 PDI-144RAB-20-29-191113,
Description: 1904021-07 PDI-144RAB-20-29-191113 10.72 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

Total Tetra-Dioxins



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



Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Tuesday, December 17, 2019 09:58:24 Pacific Standard Time

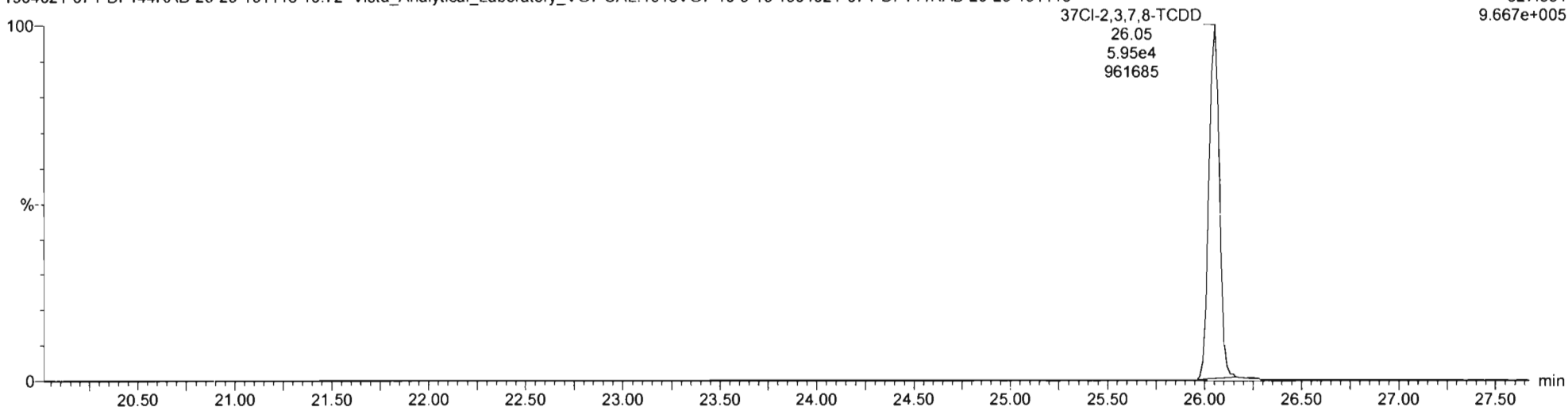
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37Cl-2,3,7,8-TCDD

191212D2_14
1904021-07 PDI-144RAB-20-29-191113 10.72 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19 1904021-07 PDI-144RAB-20-29-191113

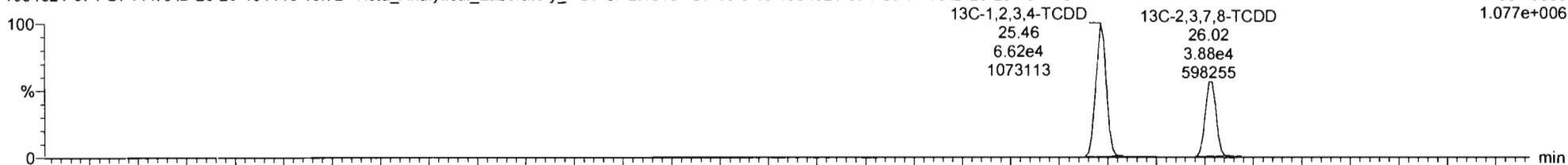
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9.667e+005



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

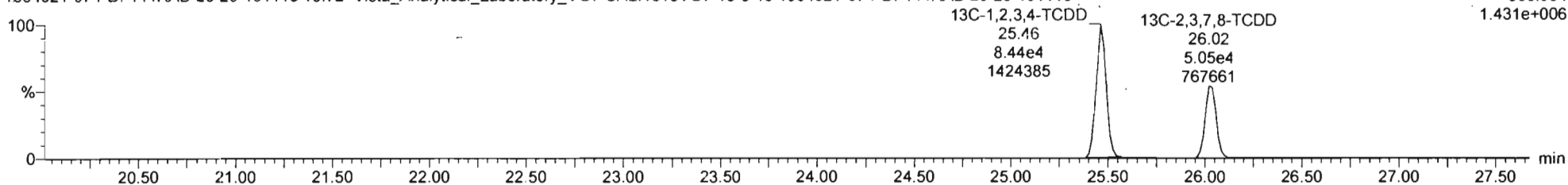
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1904021-07 PDI-144RAB-20-29-191113 10.72 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19 1904021-07 PDI-144RAB-20-29-191113

F1:SIR of 15 channels,EI+
331.9368
1.077e+006



191212D2_14
1904021-07 PDI-144RAB-20-29-191113 10.72 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-13 1904021-07 PDI-144RAB-20-29-191113

F1:SIR of 15 channels,EI+
333.934
1.431e+006



Vista Analytical Laboratory

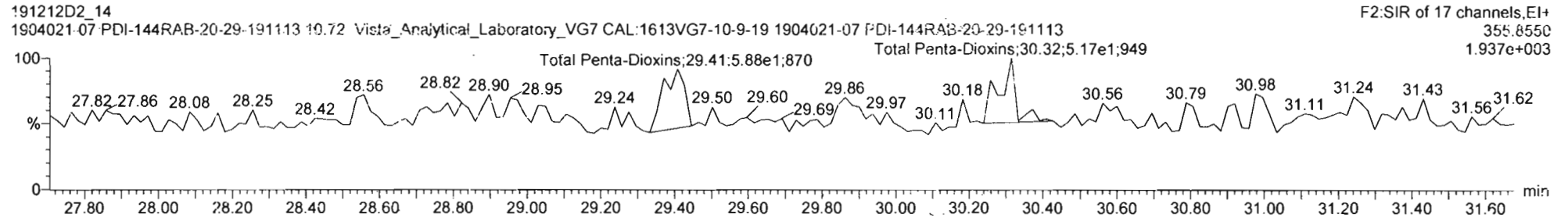
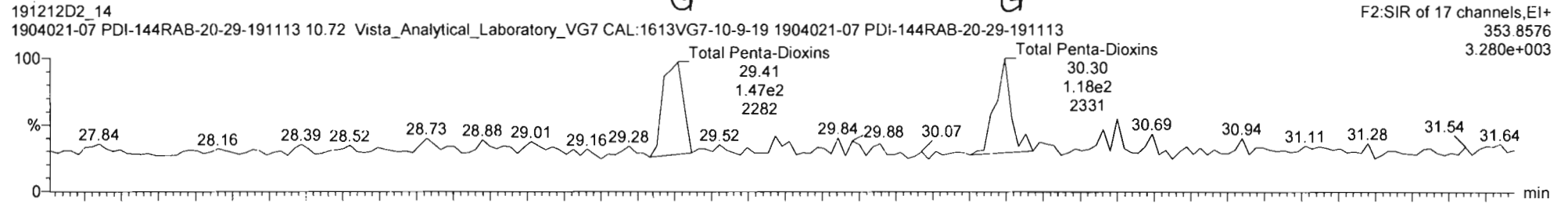
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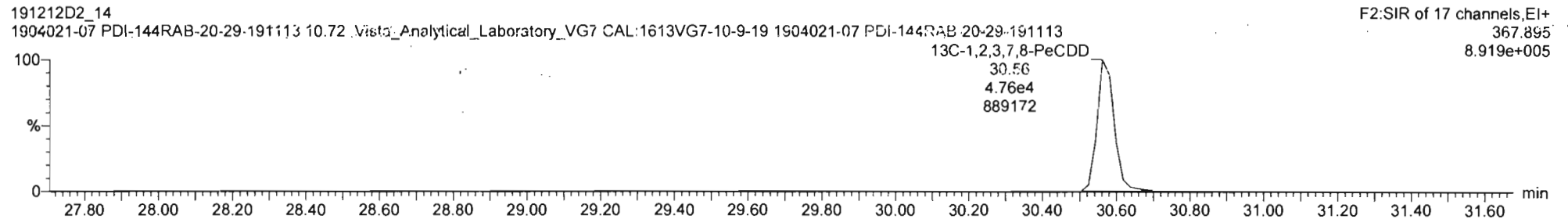
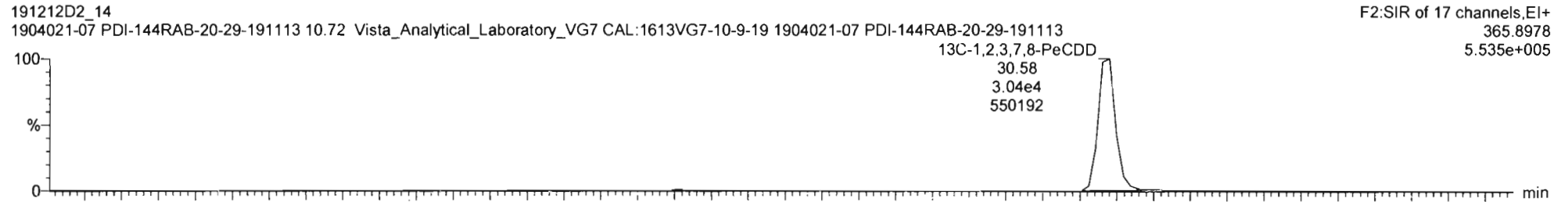
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Description: 1904021-07 PDI-144RAB-20-29-191113 10.72 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

Total Penta-Dioxins



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



Vista Analytical Laboratory

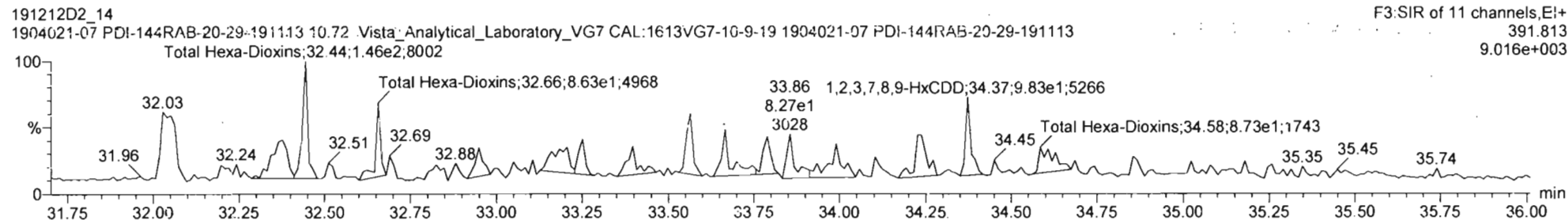
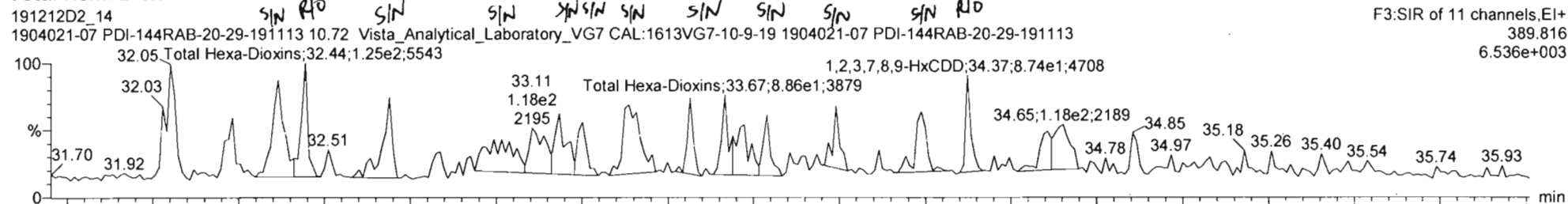
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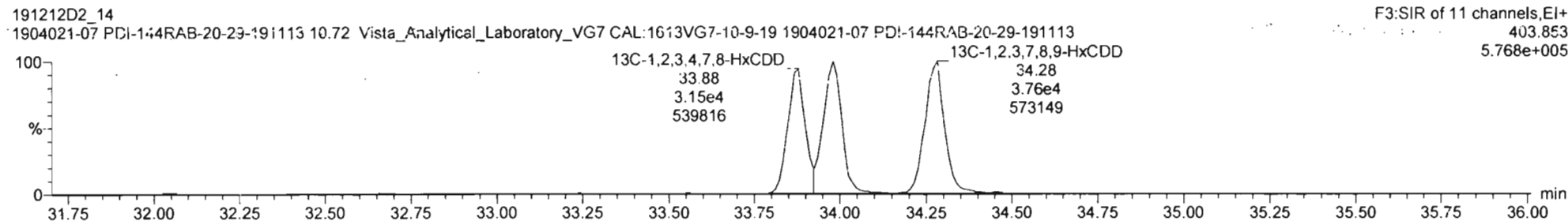
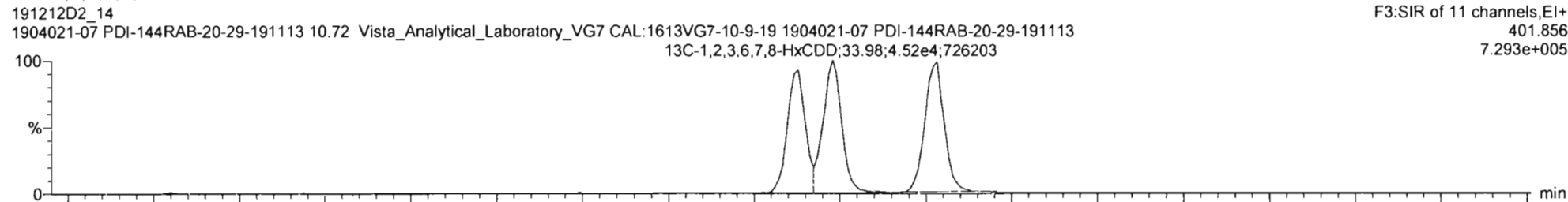
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Total Hexa-Dioxins



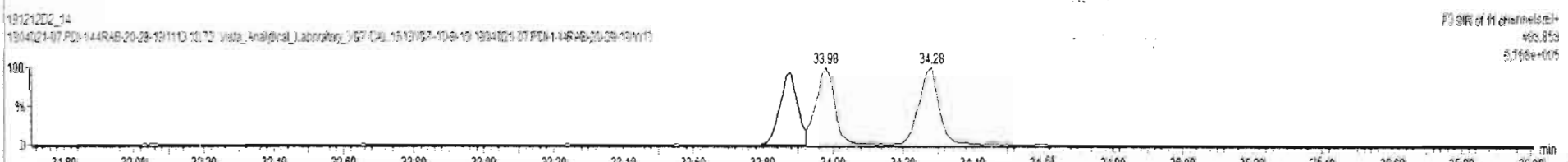
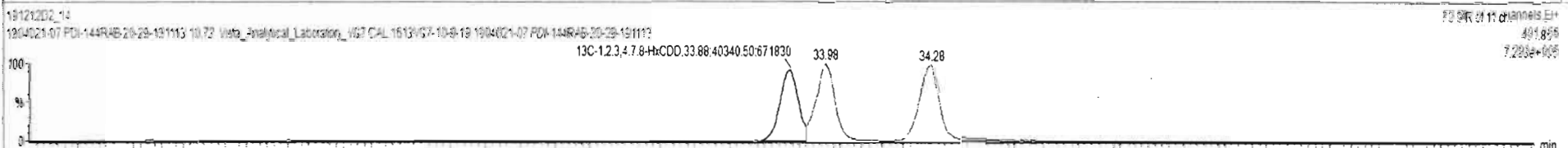
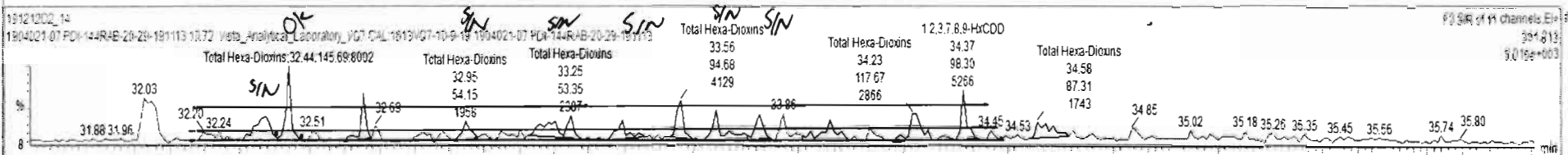
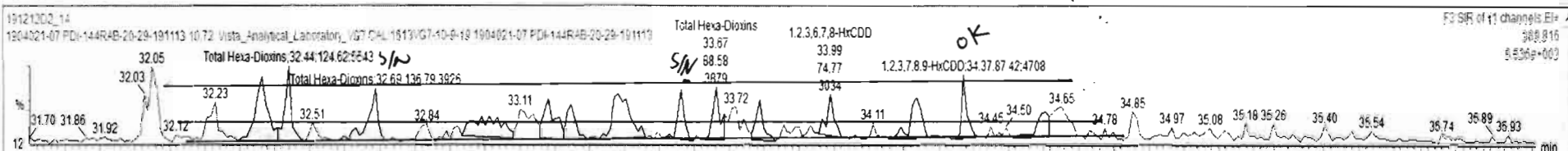
13C-1,2,3,4,7,8-HxCDD



191212D2_14 - 1904021-07 FDI-144RAB-20-29-191113 - 1904021-07 FDI-144RAB-20-29-191113 10 72 Vista_Analytical_Laboratory_VG7 CAL 1613VG7-10-9-19

#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	Check.RRT	Conc.	%Rec	DL	EMPC
40	Total Penta-Dioxins		7.80e4				0.872	10.020	30.00			0.000	NO			0.160	
41	Total Hexa-Dioxins		0.00e0				0.976	10.020	33.80			0.000	NO	1.780		0.877	6.269
42	Total Hepta-Dioxins		7.69e4				0.589	10.020	37.75			0.000	NO	17.46		0.519	17.46
43	Total Tetra-Furans		1.25e5				0.943	10.020	24.00			0.000	NO			0.121	
44	1st Func. Penta-Furans		0.00e0				0.940	10.020	27.63			0.000	NO	0.0862		0.117	0.0862
45	Total Penta-Furans		0.00e0				0.940	10.020	29.00			0.000	NO	0.0000		0.131	0.1794
46	Total Hexa-Furans		0.00e0				1.078	10.020	33.00			0.000	NO	0.9608		0.599	3.898
47	Total Hepta-Furans		0.00e0				1.135	10.020	37.75			0.000	NO	2.302		0.286	2.302

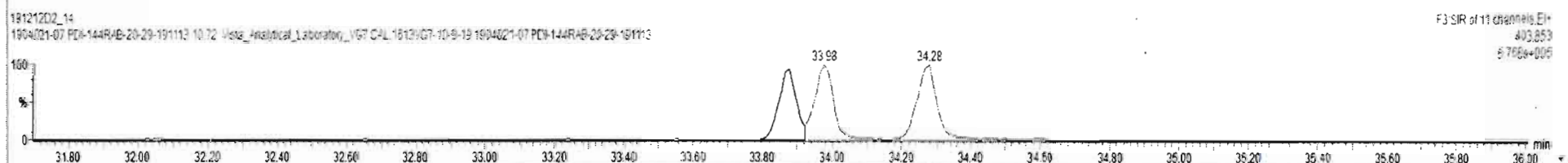
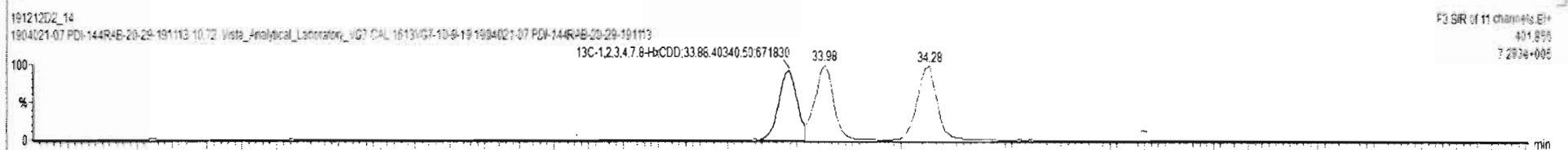
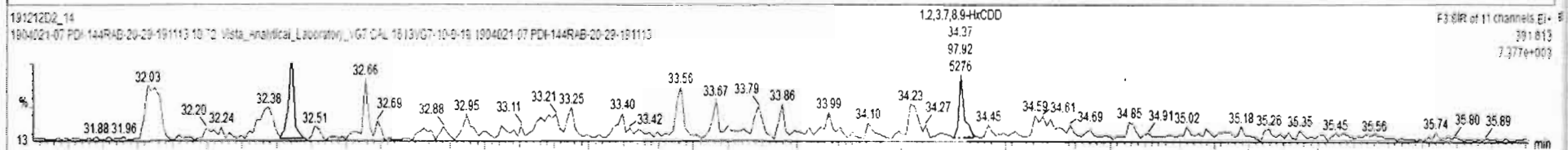
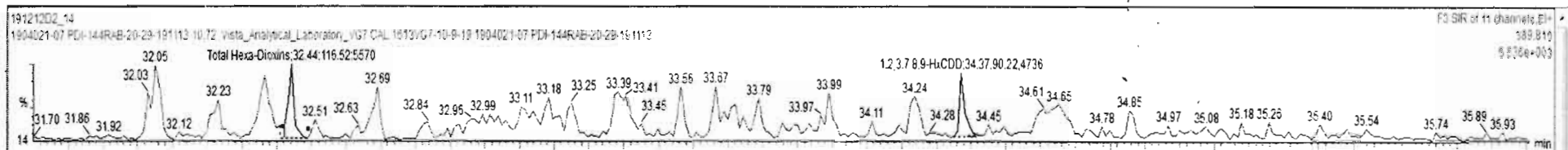
#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	Total Hexa-Dioxins	33.60	32.37	1.901e2	1.380e2	1.240	1.37	NO	0.85320	0.85320
2	Total Hexa-Dioxins	33.60	32.44	1.246e2	1.457e2	1.240	0.86	YES	0.68375	0.00000
3	Total Hexa-Dioxins	33.60	32.69	1.368e2	8.625e1	1.240	1.59	YES	0.50097	0.00000
4	Total Hexa-Dioxins	33.60	32.99	1.481e2	5.415e1	1.240	2.74	YES	0.31452	0.00000
5	Total Hexa-Dioxins	33.60	33.18	1.131e2	9.981e1	1.240	1.13	NO	0.55296	0.55206
6	Total Hexa-Dioxins	33.60	33.25	8.025e1	5.335e1	1.240	1.50	YES	0.30980	0.00000
7	Total Hexa-Dioxins	33.60	33.39	1.963e2	6.874e1	1.240	2.90	YES	0.38927	0.00000
8	Total Hexa-Dioxins	33.60	33.56	7.682e1	9.468e1	1.240	0.81	YES	0.35696	0.00000
9	Total Hexa-Dioxins	33.60	33.67	8.853e1	1.014e2	1.240	0.87	YES	0.41491	0.00000



191212D2_14 - 1904021-07 PDI-144RAB-20-29-191113 - 1904021-07 PDI-144RAB-20-29-191113 10 72 Vista_Analytical_Laboratory_VG7 CAL 1613VG7-10-9-19

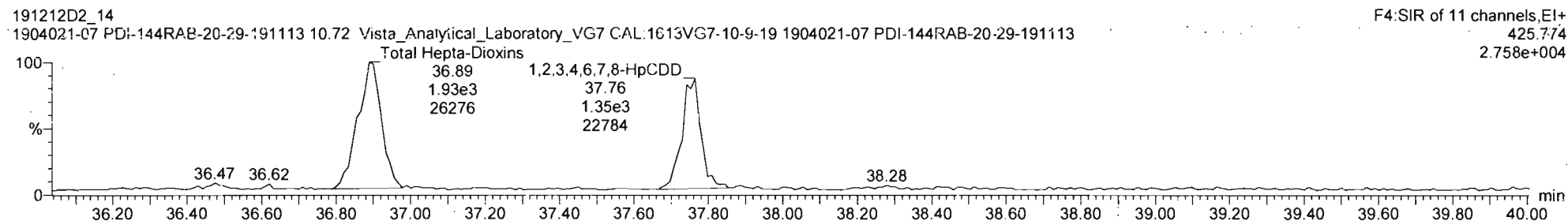
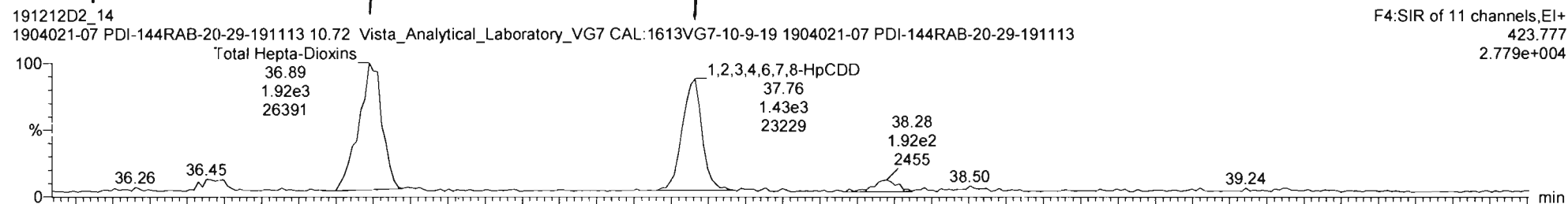
#	Name	Resp	IS Resp	IS#	RA	n/y	RFP	wt/vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	EMPC
40	Total Penta-Dioxins		7.86e4				0.872	10.020	30.00			0.000	NO			0.160	
41	Total Hexa-Dioxins		0.00e0				0.976	10.020	33.80			0.000	NO	0.0000		0.336	0.9501
42	Total Hepta-Dioxins		7.69e4				0.989	10.020	37.75			0.000	NO	17.46		0.519	17.46
43	Total Tetra-Furans		1.25e5				0.943	10.020	24.00			0.000	NO			0.121	
44	1st Func. Penta-Furans		0.00e0				0.940	10.020	27.63			0.000	NO	0.3862		0.117	0.3862
45	Total Penta-Furans		0.00e0				0.940	10.020	30.00			0.000	NO	0.0000		0.131	0.1794
46	Total Hexa-Furans		0.00e0				1.078	10.020	33.90			0.000	NO	0.9608		0.589	3.888
47	Total Hepta-Furans		0.00e0				1.136	10.020	37.75			0.000	NO	2.363		0.288	2.363

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	41 Total Hexa-Dioxins	33.80	32.44	1.165e2	1.457e2	1.240	0.80	YES	0.54581	0.00000
2	5 1,2,3,7,8,9-HxCDD	34.32	34.37	9.022e1	9.792e1	1.240	0.92	YES	0.40432	0.00000

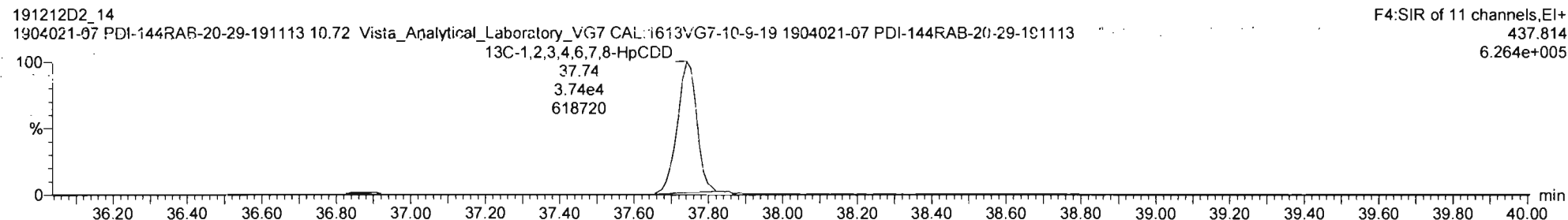
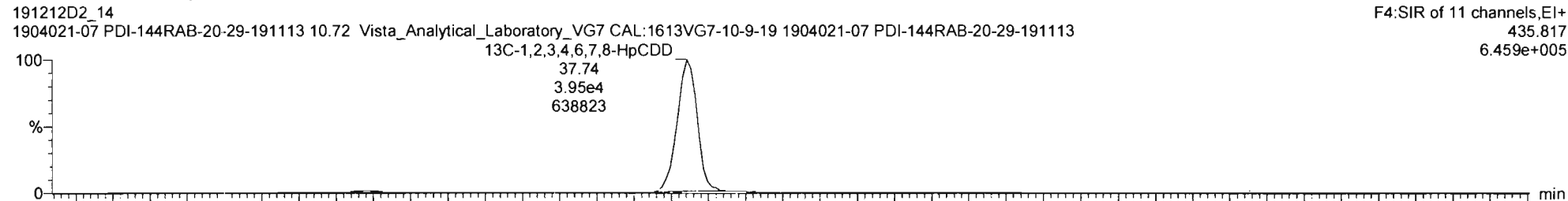


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 Description: 1904021-07 PDI-144RAB-20-29-191113 10.72 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

Total Hepta-Dioxins



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



Vista Analytical Laboratory

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Last Altered: Tuesday, December 17, 2019 09:58:24 Pacific Standard Time

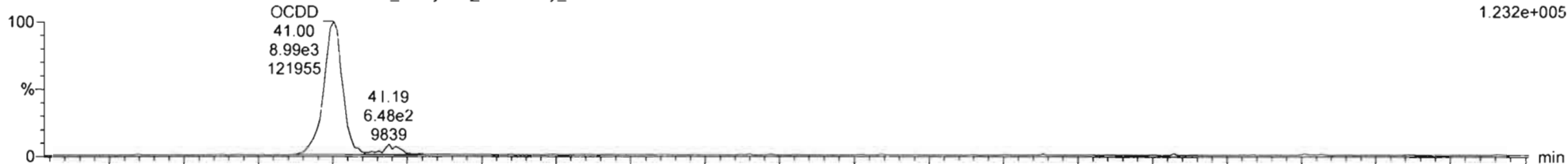
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OCDD

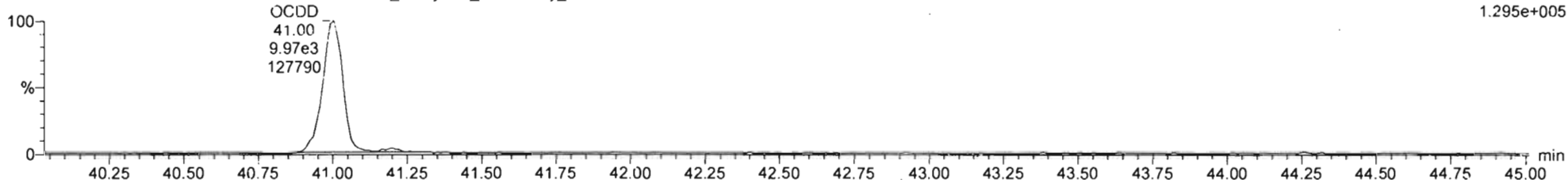
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1904021-07 PDI-144RAB-20-29-191113 10.72 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19 1904021-07 PDI-144RAB-20-29-191113

F5:SIR of 11 channels,EI+
457.738
1.232e+005



191212D2_14
1904021-07 PDI-144RAB-20-29-191113 10.72 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19 1904021-07 PDI-144RAB-20-29-191113

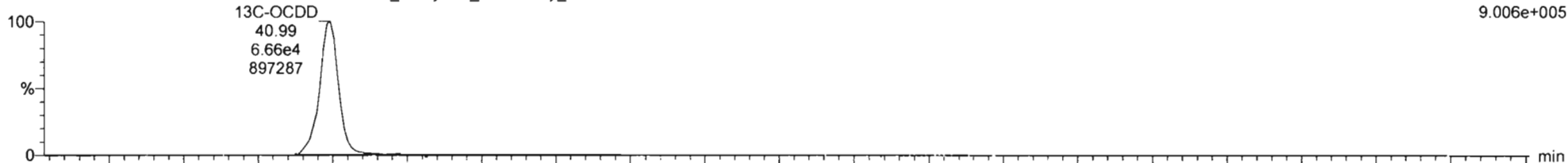
F5:SIR of 11 channels,EI+
459.735
1.295e+005



13C-OCDD

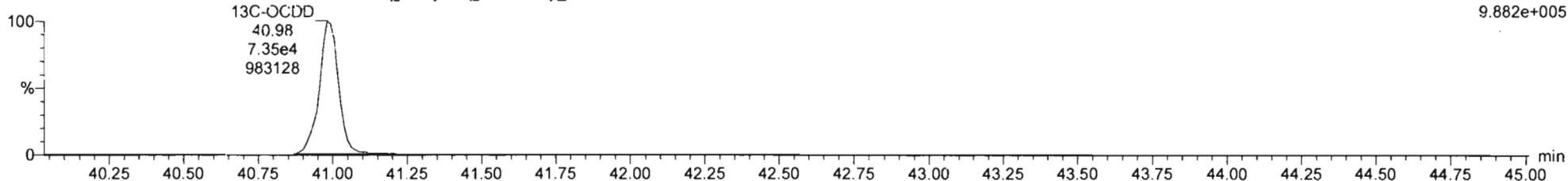
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F5:SIR of 11 channels,EI+
469.778
9.006e+005



191212D2_14
1904021-07 PDI-144RAB-20-29-191113 10.72 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19 1904021-07 PDI-144RAB-20-29-191113

F5:SIR of 11 channels,EI+
471.775
9.882e+005



Vista Analytical Laboratory

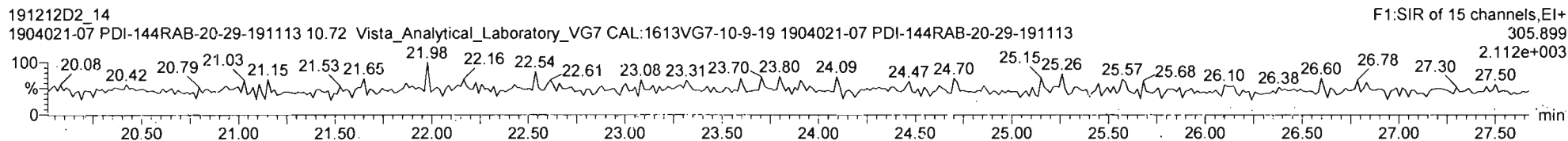
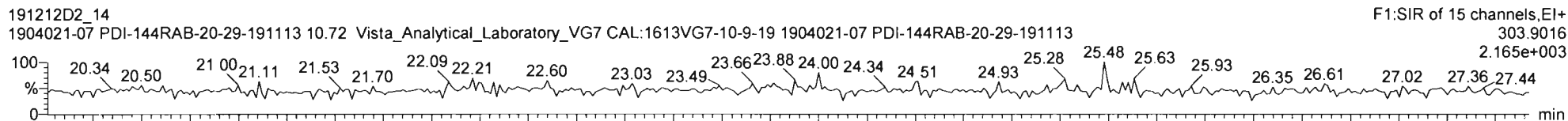
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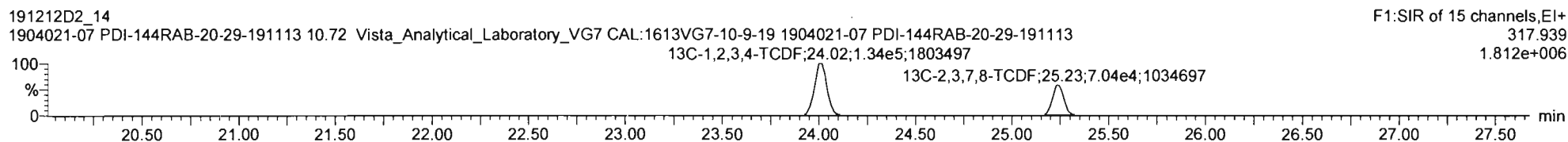
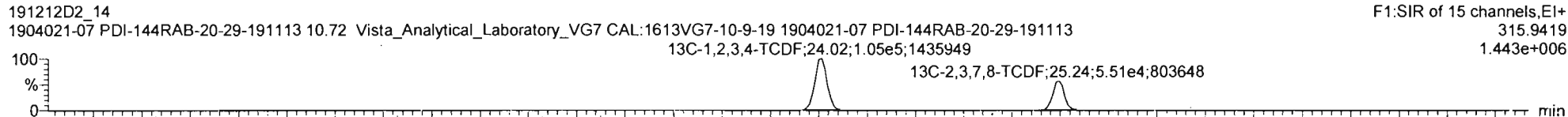
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Description: 1904021-07 PDI-144RAB-20-29-191113 10.72 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

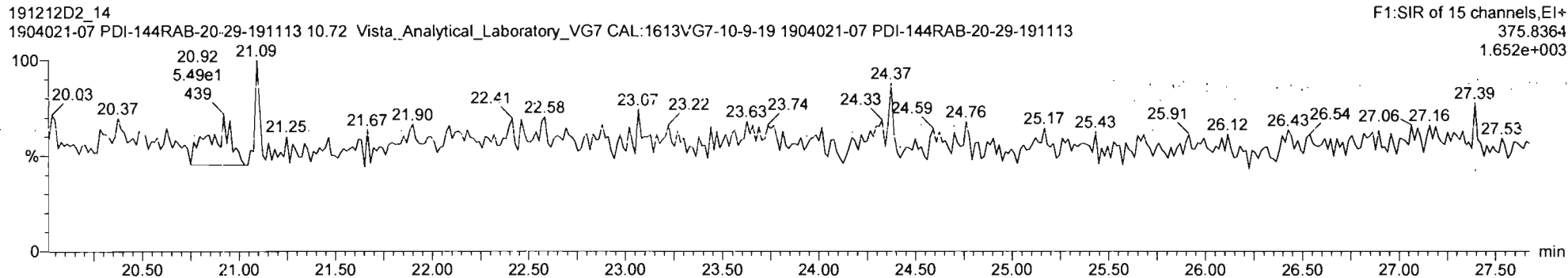
Total Tetra-Furans



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



DPE1



Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Tuesday, December 17, 2019 09:58:24 Pacific Standard Time

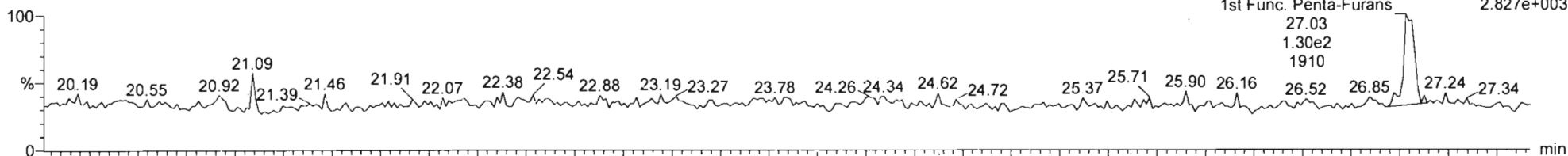
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Description: 1904021-07 PDI-144RAB-20-29-191113 10.72 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

1st Func. Penta-Furans

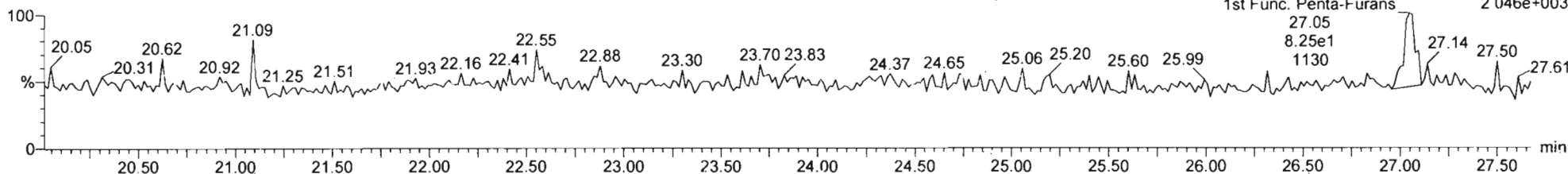
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1904021-07 PDI-144RAB-20-29-191113 10.72 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19 1904021-07 PDI-144RAB-20-29-191113

F1:SIR of 15 channels,EI+
339.860
2.827e+003



191212D2_14
1904021-07 PDI-144RAB-20-29-191113 10.72 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19 1904021-07 PDI-144RAB-20-29-191113

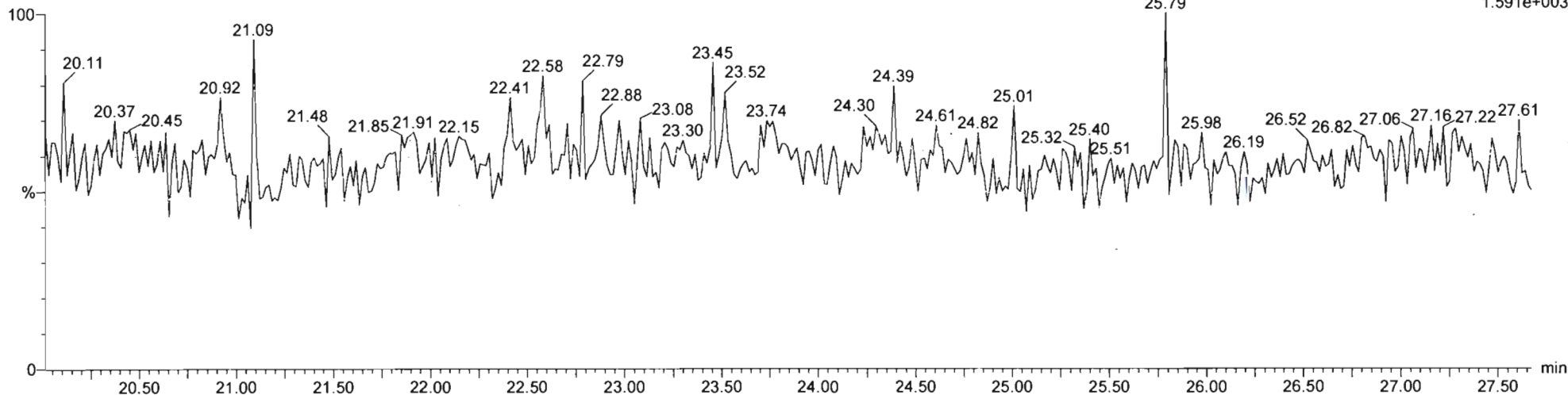
F1:SIR of 15 channels,EI+
341.857
2.046e+003



DPE6

191212D2_14
1904021-07 PDI-144RAB-20-29-191113 10.72 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19 1904021-07 PDI-144RAB-20-29-191113

F1:SIR of 15 channels,EI+
409.7974
1.591e+003

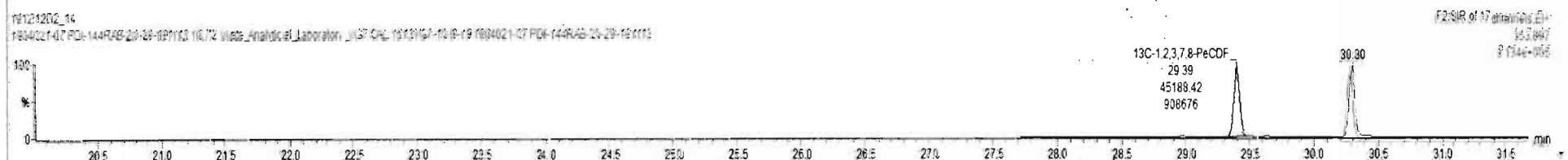
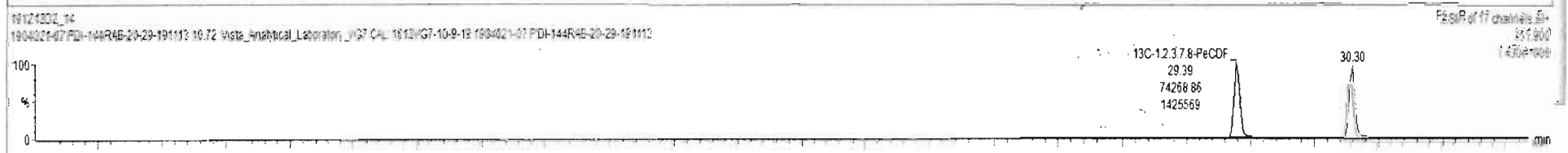
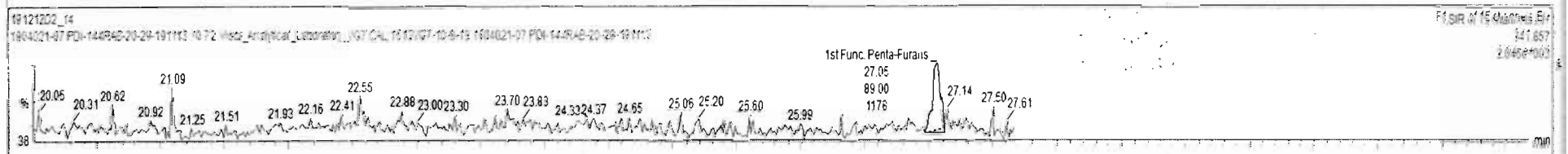
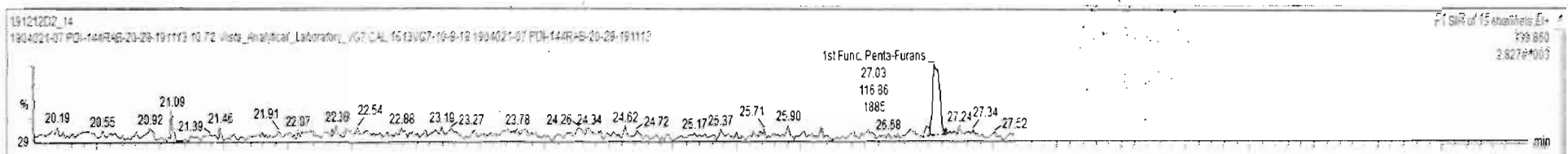




191212D2_14 - 1904021-07 PDI-144RAB-20-29-191113 - 1904021-07 PDI-144RAB-20-29-191113 10.72 Vista_Analytical_Laboratory_VG7 CAL 1613VG7-10-9-19

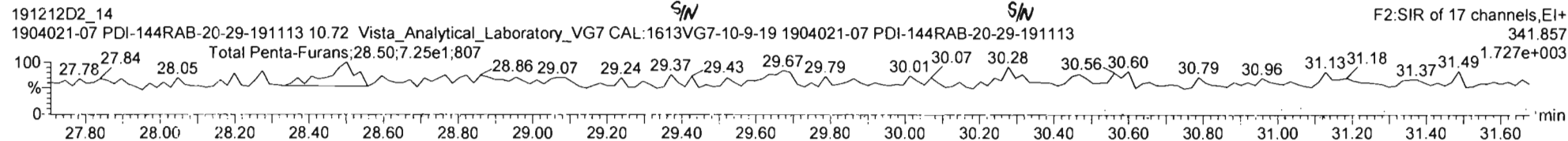
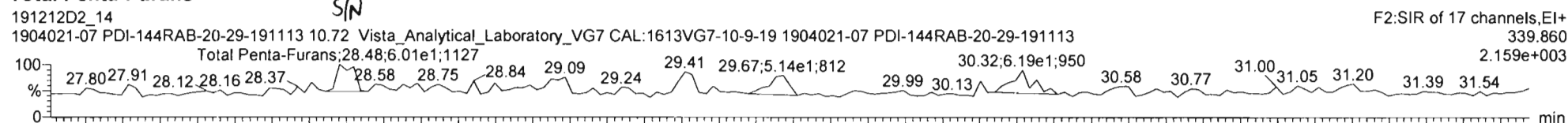
#	Name	Resp	IS Resp	IS	RA	n/y	RRF	wt/vol	Pred RT	RT	RRT	Pred.RRT	Check RRT	Conc	%Rec	DL	EMPC
3	1,2,3,4,7,8-HxCDD		7.18e4	20			1.101	10.020	33.89			1.000	NO			0.823	
4	1,2,3,6,7,8-HxCDD		8.11e4	21			0.939	10.020	33.98			1.000	NO			0.886	
5	1,2,3,7,8,9-HxCDD	1.88e2	8.37e4	22	0.92	YES	0.961	10.020	34.32	34.37	1.003	1.001	NO	0.4867		0.872	0.4043
6	1,2,3,4,6,7,8-HpCDD	2.76e3	7.69e4	23	1.06	NO	0.979	10.020	37.75	37.76	1.001	1.000	NO	7.368		0.524	7.368
7	OCDD	1.90e4	1.40e5	24	0.90	NO	0.959	10.020	40.99	41.00	1.000	1.000	NO	56.39		0.496	56.39
8	2,3,7,8-TCDF		1.25e5	25			0.950	10.020	25.27			1.001	NO			0.251	
9	1,2,3,7,8-PeCDF		1.19e5	26			0.960	10.020	29.41			1.001	NO			0.222	
10	1,2,3,4,7,8-PeCDF		1.15e5	27			1.015	10.020	30.33			1.001	NO			0.213	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	44 1st Func. Penta-Furans	27.63	27.03	1.169e2	8.900e1	1.550	1.31	YES	0.34883	0.00000

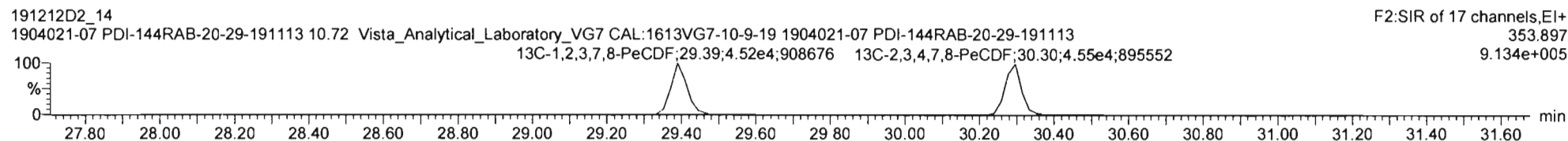
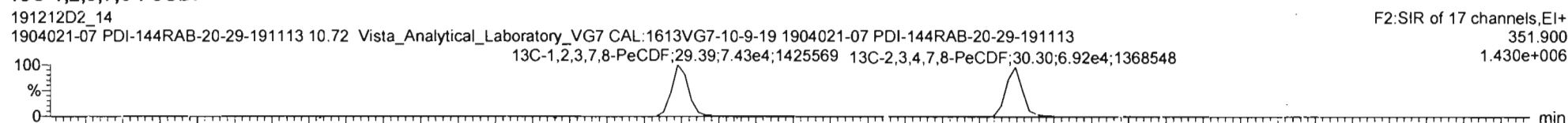


Name: 191212D2_14, Date: 13-DEC-2019, Time: 11:18:43, ID: 1904021-07 PDI-144RAB-20-29-191113,
Description: 1904021-07 PDI-144RAB-20-29-191113 10.72 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

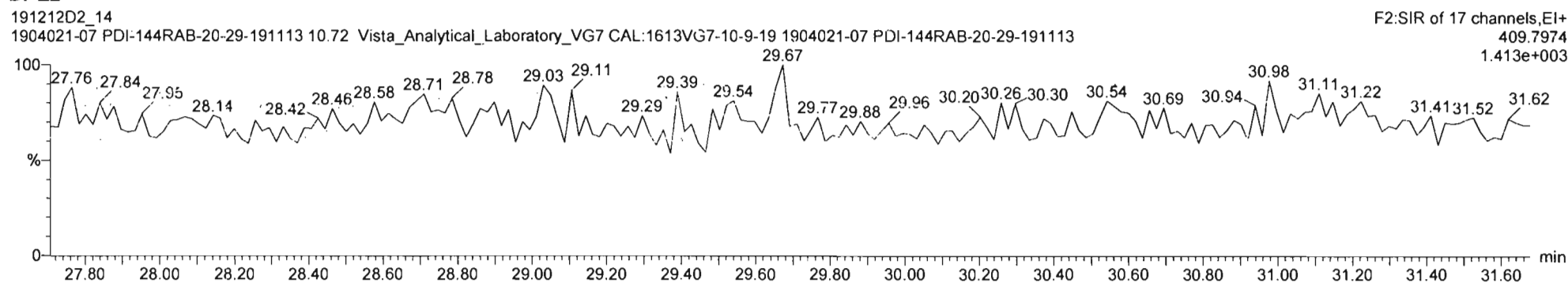
Total Penta-Furans



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



DPE2



Vista Analytical Laboratory

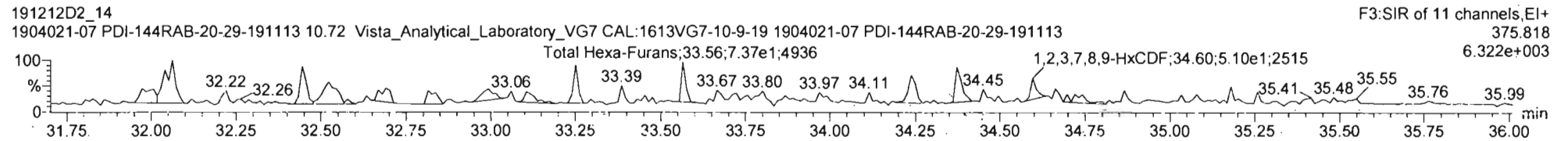
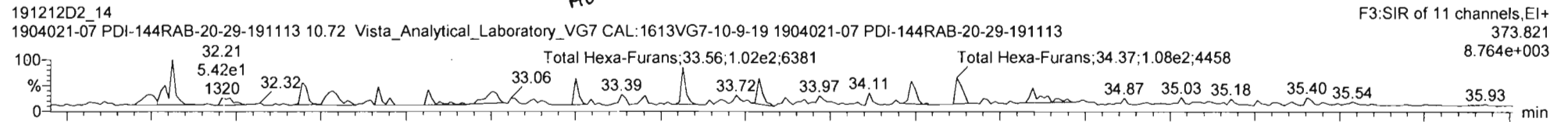
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Last Altered: Tuesday, December 17, 2019 09:58:24 Pacific Standard Time

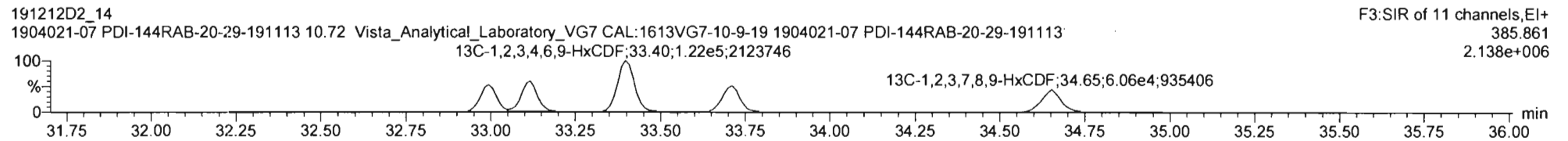
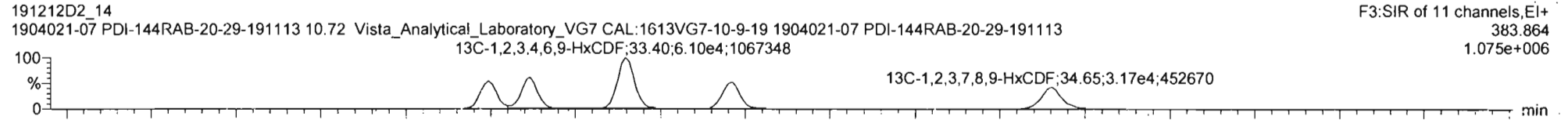
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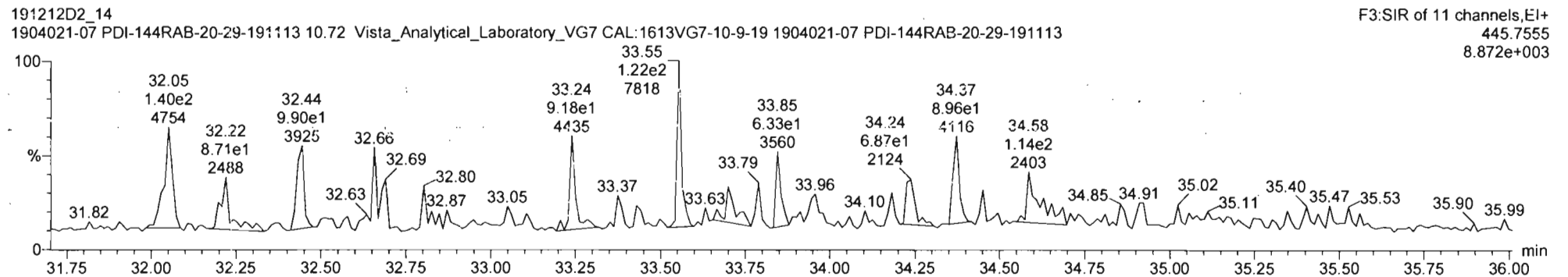
Total Hexa-Furans



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



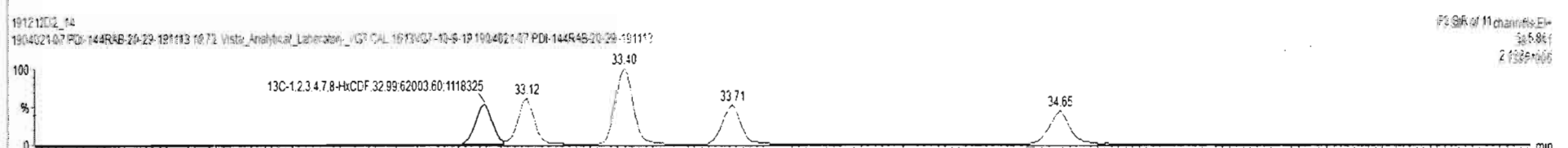
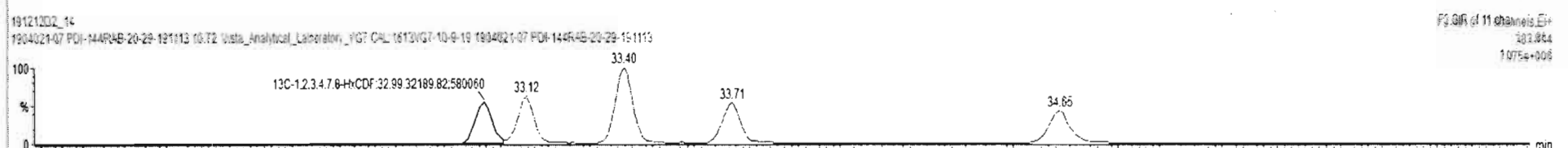
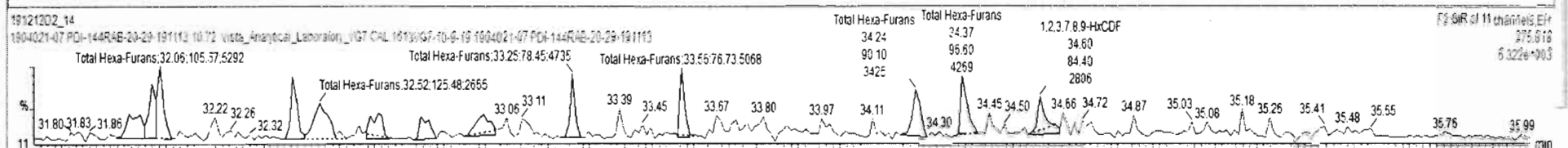
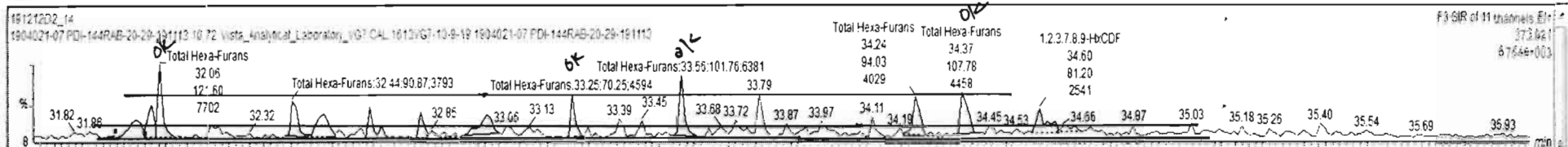
DPE3



191212D2_14 - 1904021-07 PDI-144RAB-20-29-191113 - 1904021-07 PDI-144RAB-20-29-191113 10 72 Vista_Analytical_Laboratory_VG7 CAL 1613VG7-10-9-19

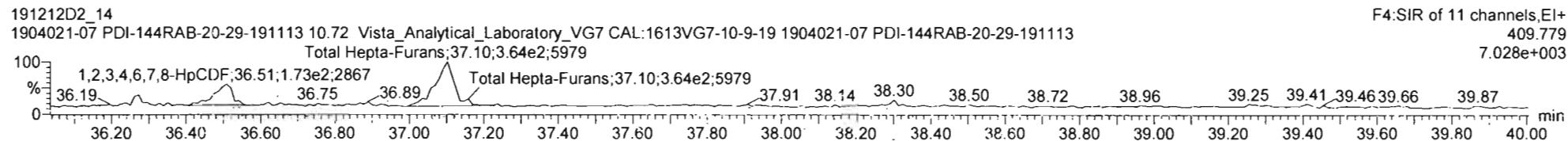
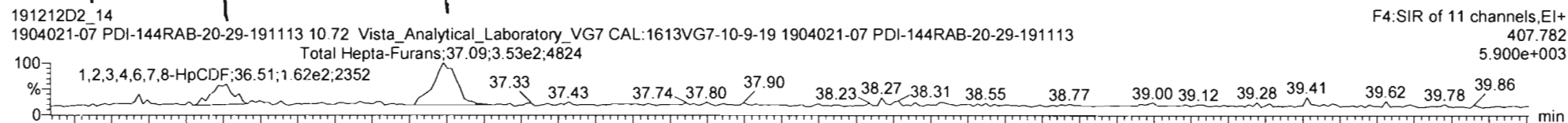
#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wt/vol	Pred RT	RT	RRT	Pred.RRT	Check RRT	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans	0.00e0					0.940	10.020	30.00			0.000	NO			0.131	
46	Total Hexa-Furans	0.00e0					1.078	10.020	33.00			0.000	NO	1.448	0.599	3.680	
47	Total Hepta-Furans	0.00e0					1.135	10.020	37.75			0.000	NO	2.303	0.286	2.382	
48	PFK1																
49	PFK2																
50	PFK3																
51	PFK4																
52	PFK5																

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.
1	Total Hexa-Furans	32.00	32.00	8.517e1	8.387e1	1.240	1.02	YES	0.29115	0.00000
2	Total Hexa-Furans	33.00	32.04	7.409e1	6.577e1	1.240	0.86	YES	0.25233	0.00000
3	Total Hexa-Furans	33.00	32.06	1.216e2	1.056e2	1.240	1.15	NO	0.42990	0.42990
4	Total Hexa-Furans	33.00	32.44	9.087e1	1.021e2	1.240	0.85	YES	0.31064	0.00000
5	Total Hexa-Furans	33.00	32.53	9.852e1	1.255e2	1.240	0.79	YES	0.33678	0.00000
6	Total Hexa-Furans	33.00	32.67	6.520e1	7.555e1	1.240	0.86	YES	0.22286	0.00000
7	Total Hexa-Furans	33.00	32.81	4.583e1	5.641e1	1.240	0.81	YES	0.15806	0.00000
8	1,2,3,4,7,8-HxCDF	32.99	33.00	8.911e1	7.444e1	1.240	1.20	NO	0.29449	0.29449
9	Total Hexa-Furans	33.00	33.25	7.025e1	7.815e1	1.240	0.90	YES	0.24015	0.00000

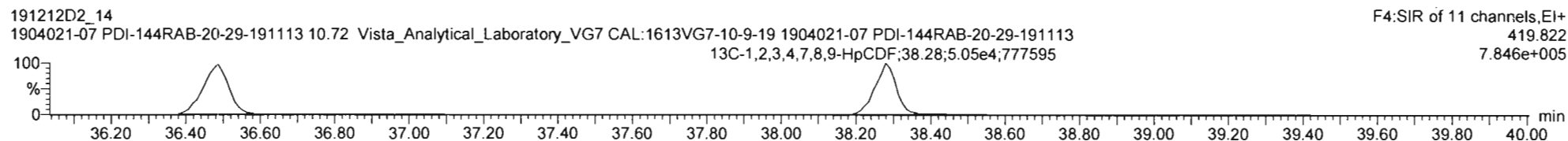
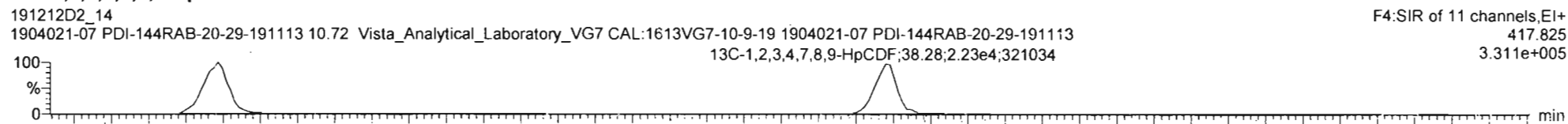


Name: 191212D2_14, Date: 13-DEC-2019, Time: 11:18:43, ID: 1904021-07 PDI-144RAB-20-29-191113,
Description: 1904021-07 PDI-144RAB-20-29-191113 10.72 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

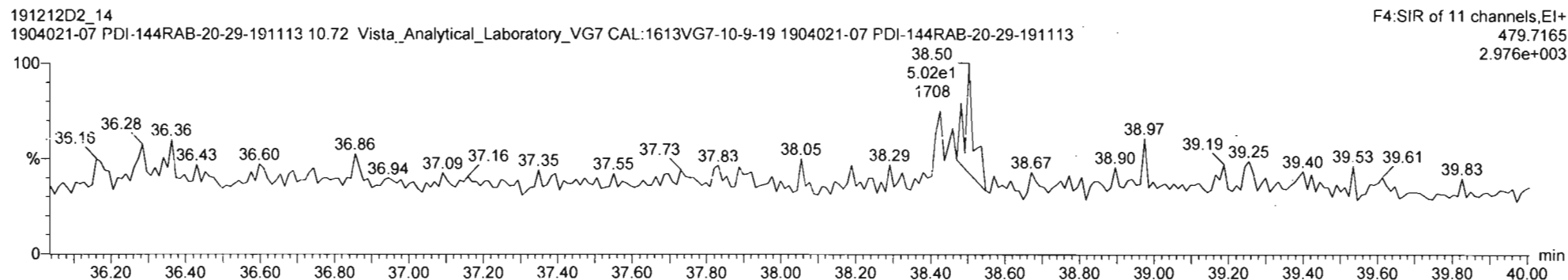
Total Hepta-Furans



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



DPE4



Vista Analytical Laboratory

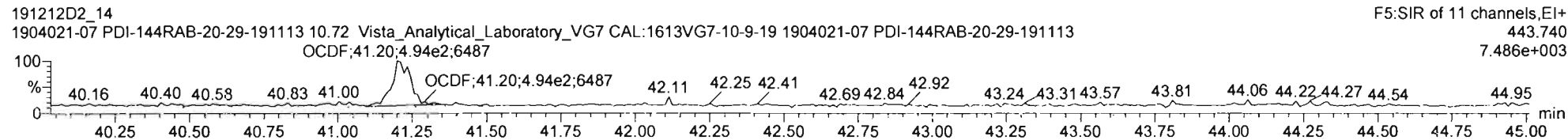
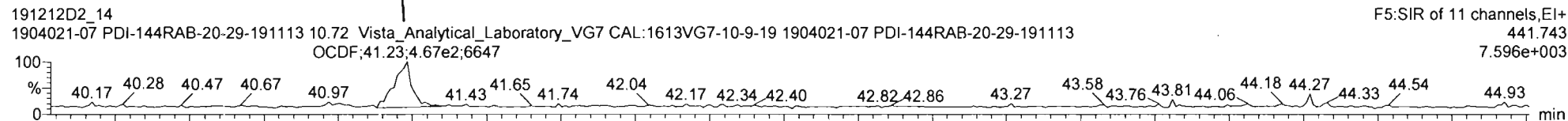
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Last Altered: Tuesday, December 17, 2019 09:58:24 Pacific Standard Time

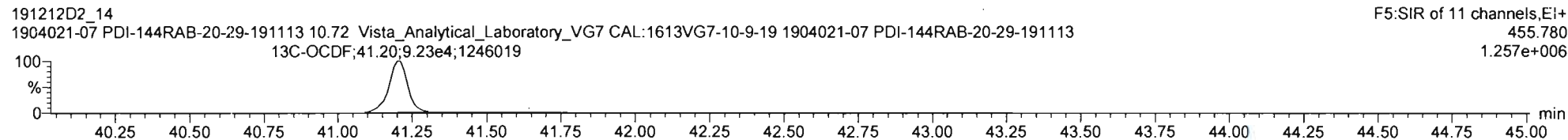
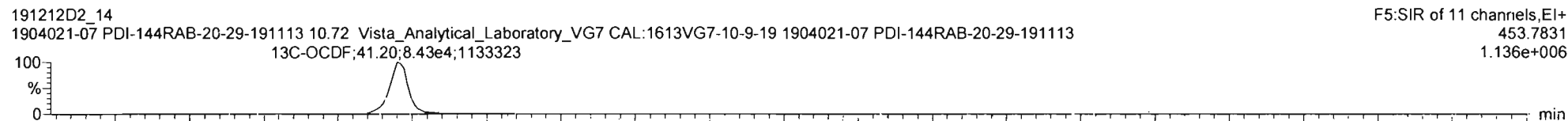
Printed: Tuesday, December 17, 2019 09:58:31 Pacific Standard Time

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Description: 1904021-07 PDI-144RAB-20-29-191113 10.72 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

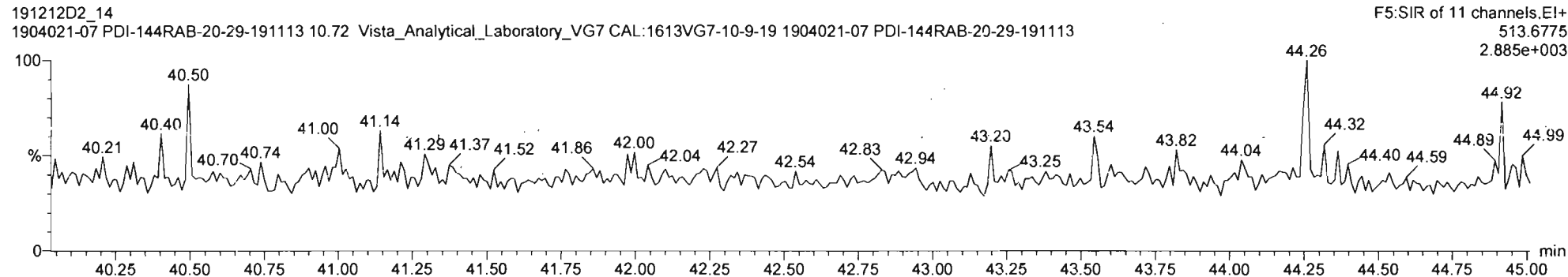
OCDF



13C-OCDF



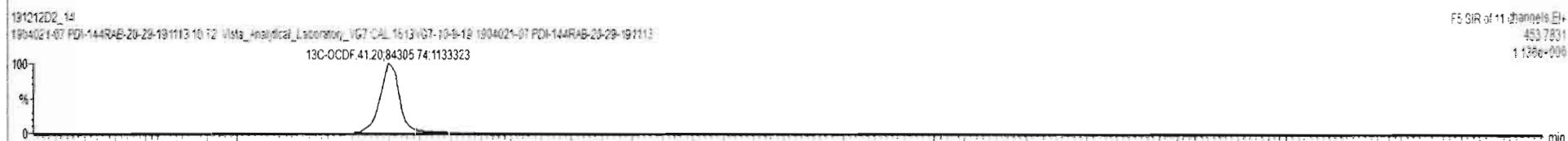
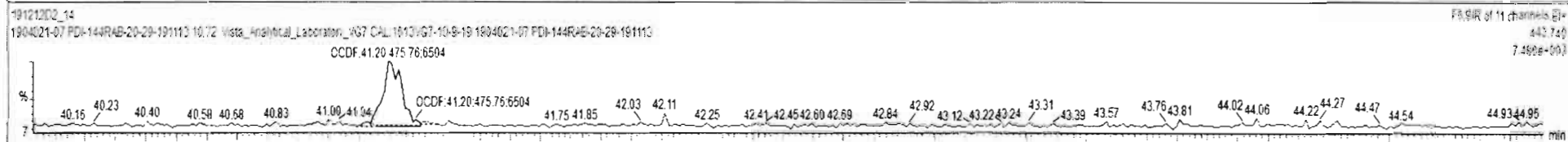
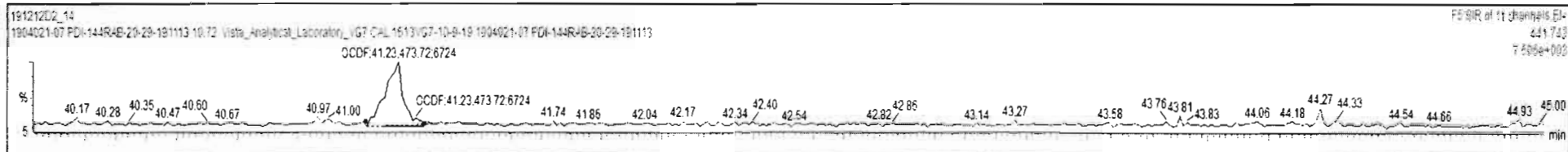
DPE5



191212D2_14 - 1904021-07 PDI-144RAB-20-29-191113 - 1904021-07 PDI-144RAB-20-29-191113 10.72 Vista_Analytical_Laboratory_VG7 CAL 1613VG7-10-9-19

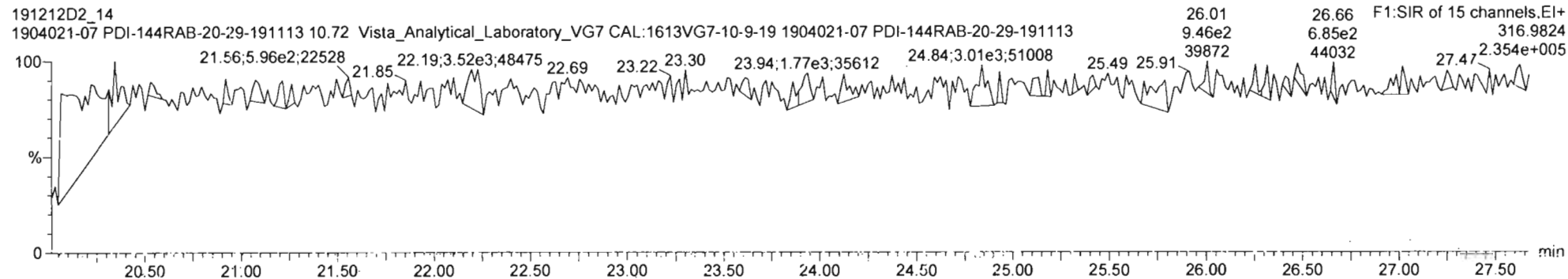
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14	1,2,3,7,8,9-HxCDF	9.23e4	31				1.062	10.020	34.65			1.000	NO			0.751	
15	1,2,3,4,6,7,8-HpCDF	3.35e2	8.47e4	32	0.94	NO	1.120	10.020	36.52	36.51	1.001	1.001	NO	0.7004		0.295	0.7004
16	1,2,3,4,7,8,9-HpCDF		7.27e4	33			1.220	10.020	38.28			1.000	NO			0.260	
17	OCDF	9.49e2	1.77e5	34	1.00	NO	0.947	10.020	41.20	41.23	1.001	1.000	NO	2.266		0.335	2.266
18	13C-2,3,7,8-TCDD	8.92e4	1.51e5	36	0.77	NO	1.095	10.020	26.00	26.02	1.022	1.021	NO	108.0	54.1	0.434	
19	13C-1,2,3,7,8-PeCDD	7.80e4	1.51e5	36	0.64	NO	0.881	10.020	30.22	30.58	1.201	1.187	NO	117.4	58.8	0.257	
20	13C-1,2,3,4,7,8-HxCDD	7.18e4	1.83e5	38	1.28	NO	0.642	10.020	33.86	33.88	1.014	1.014	NO	122.0	61.1	0.820	
21	13C-1,2,3,6,7,8-HxCDD	8.11e4	1.83e5	38	1.26	NO	0.856	10.020	33.98	33.98	1.017	1.017	NO	103.4	51.8	0.615	
22	13C-1,2,3,7,8,9-HxCDD	8.37e4	1.83e5	38	1.22	NO	0.807	10.020	34.28	34.28	1.027	1.026	NO	113.1	56.7	0.652	

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

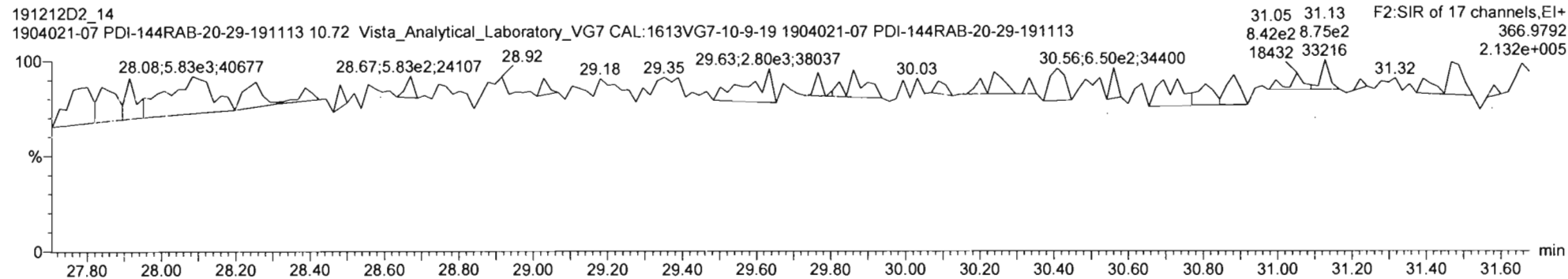


Name: 191212D2_14, Date: 13-DEC-2019, Time: 11:18:43, ID: 1904021-07 PDI-144RAB-20-29-191113,
 Description: 1904021-07 PDI-144RAB-20-29-191113 10.72 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

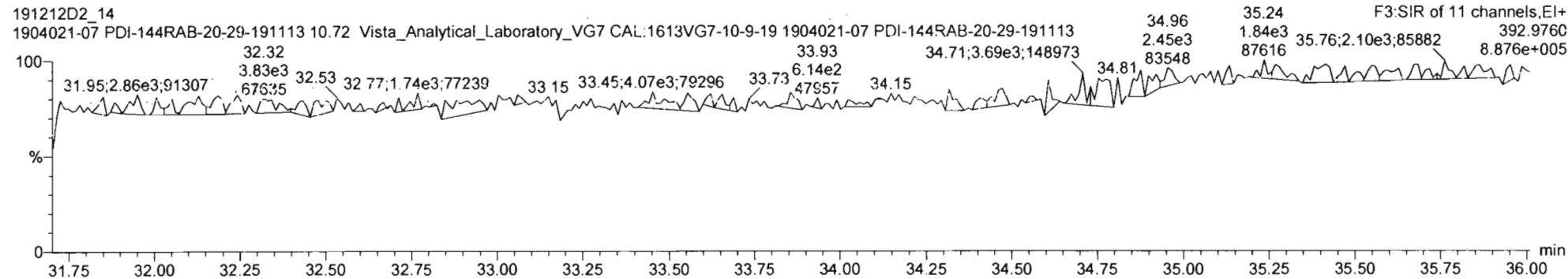
PFK1



PFK2



PFK3



Vista Analytical Laboratory

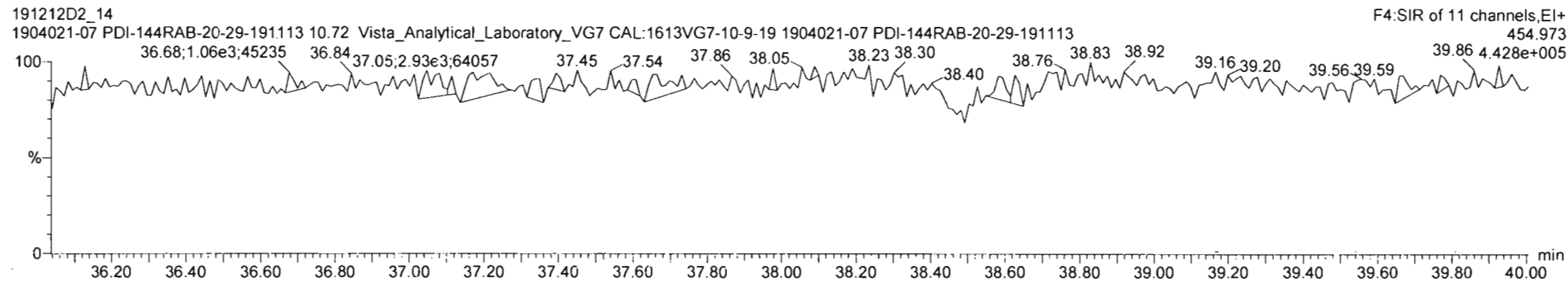
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Last Altered: Tuesday, December 17, 2019 09:58:24 Pacific Standard Time

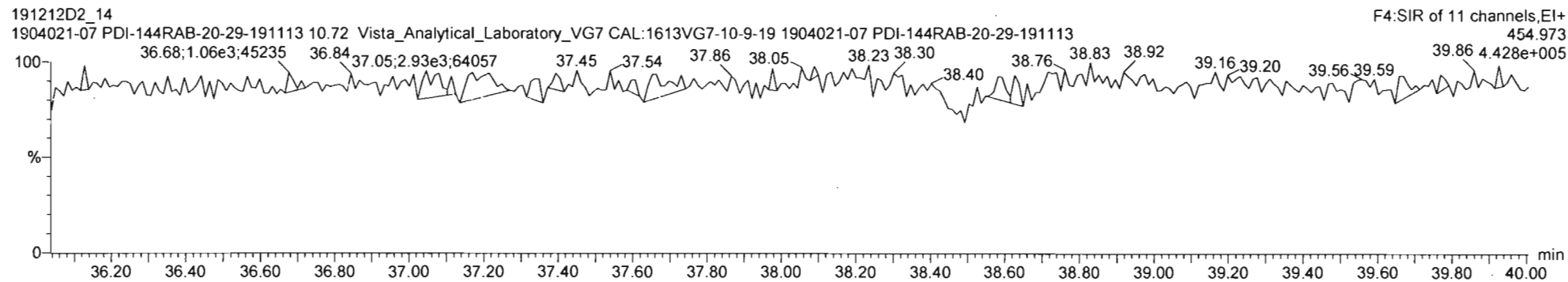
Printed: Tuesday, December 17, 2019 09:58:31 Pacific Standard Time

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Description: 1904021-07 PDI-144RAB-20-29-191113 10.72 Vista_Analytical_Laboratory_VG7 CAL:1613VG7-10-9-19

PFK4



PFK5



CONFIRMATION

Name	Resp	RA	RT	RRF	Conc	Rec
13C-1,2,3,4-TCDF	9.59e+06	0.81 y	15:34	1.00	197.7	-
13C-2,3,7,8-TCDF	6.42e+06	0.80 y	17:41	1.02	129.6	65.6
2,3,7,8-TCDF	9.72e+04	0.82 y	17:41	0.95	3.161	

Integrations

by
Analyst: DB

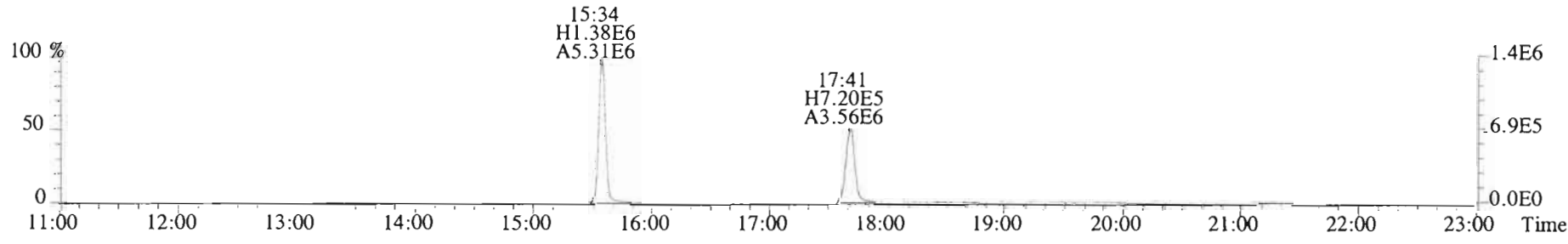
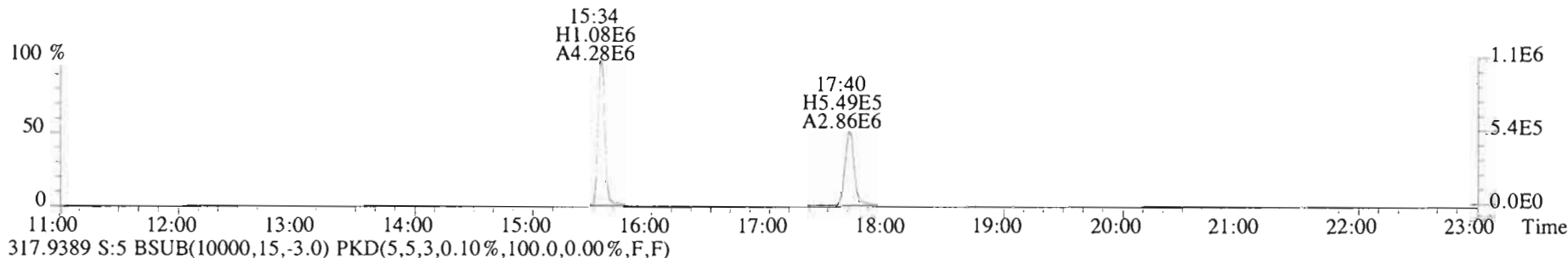
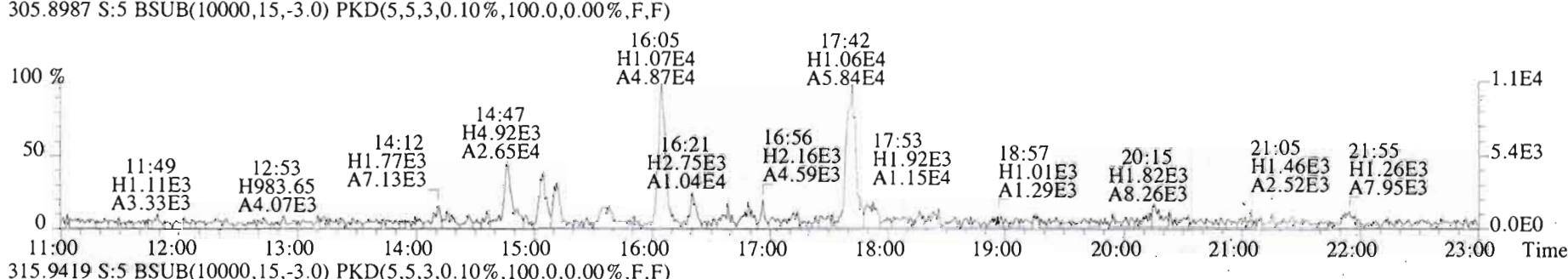
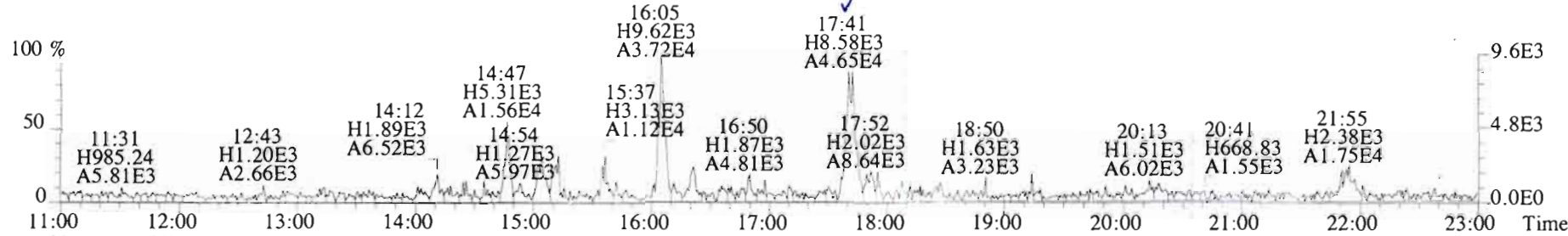
Date: 12/16/19

Reviewed

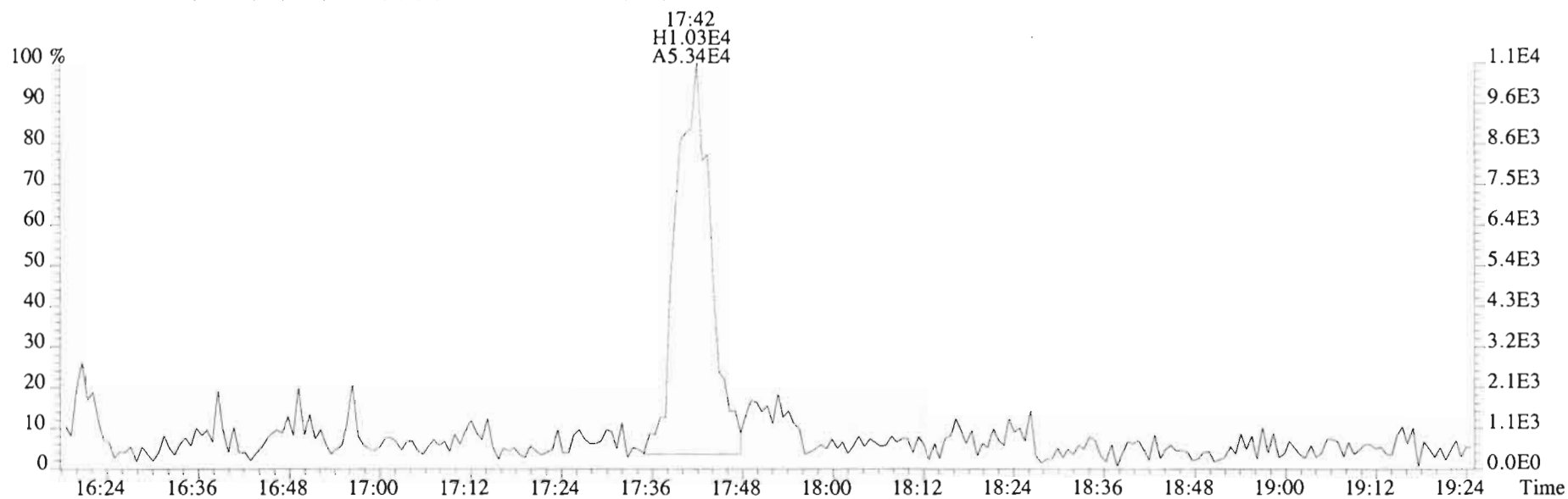
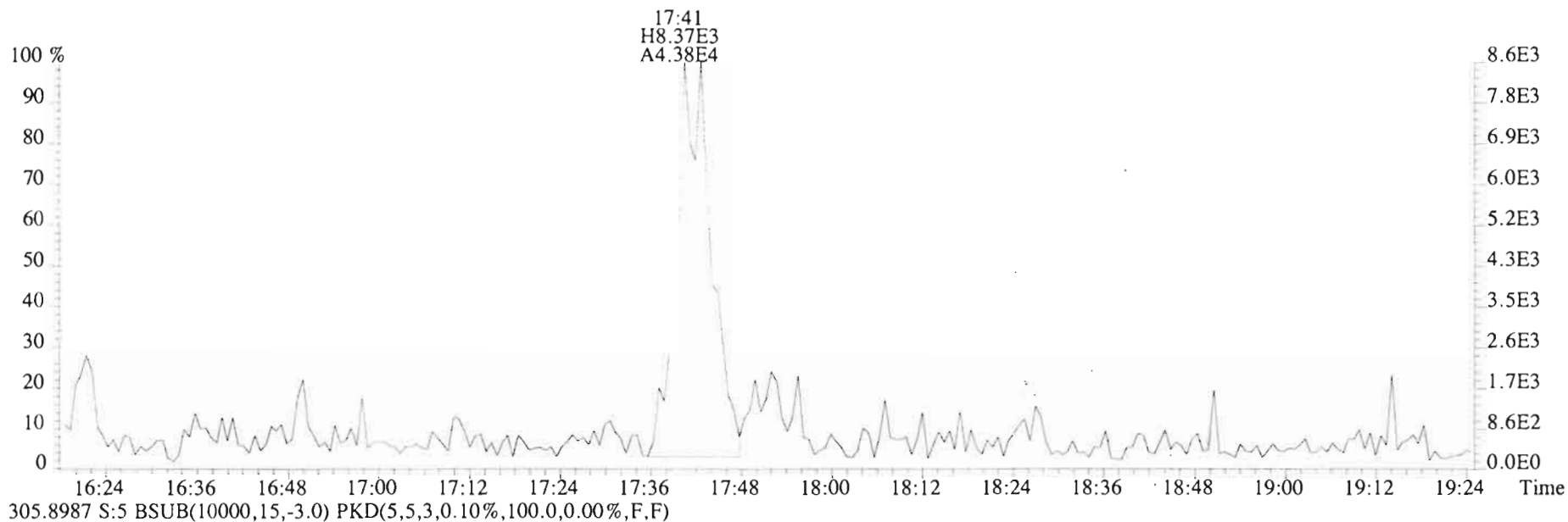
by
Analyst: CT

Date: 12/26/19

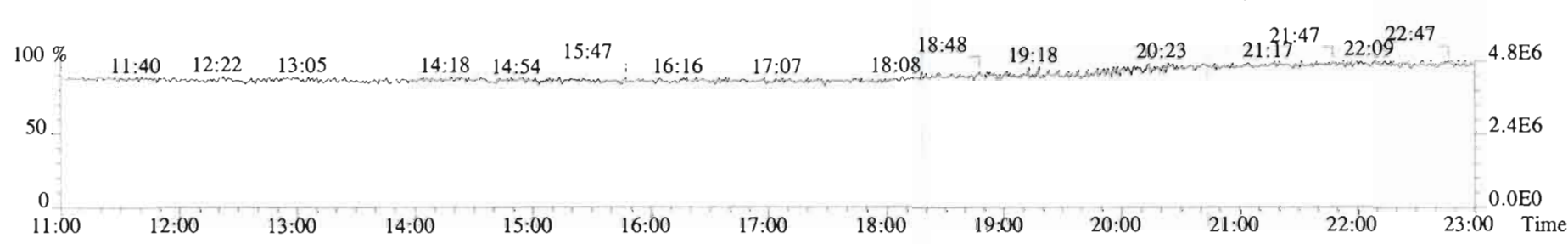
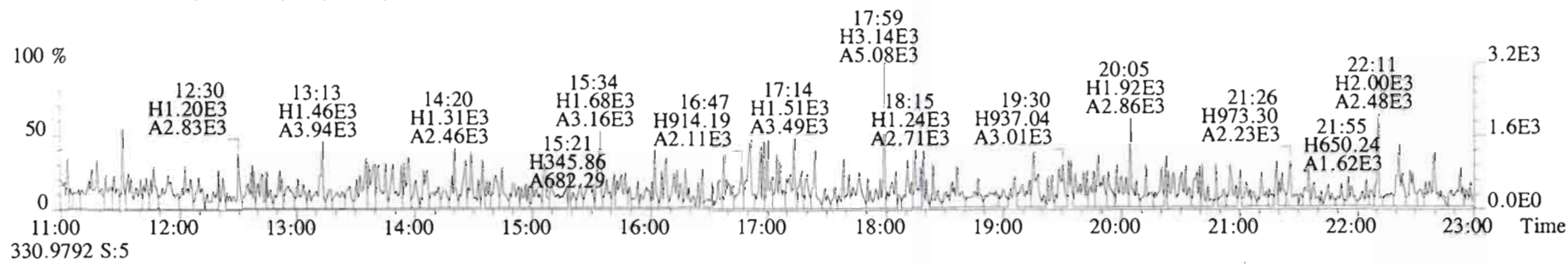
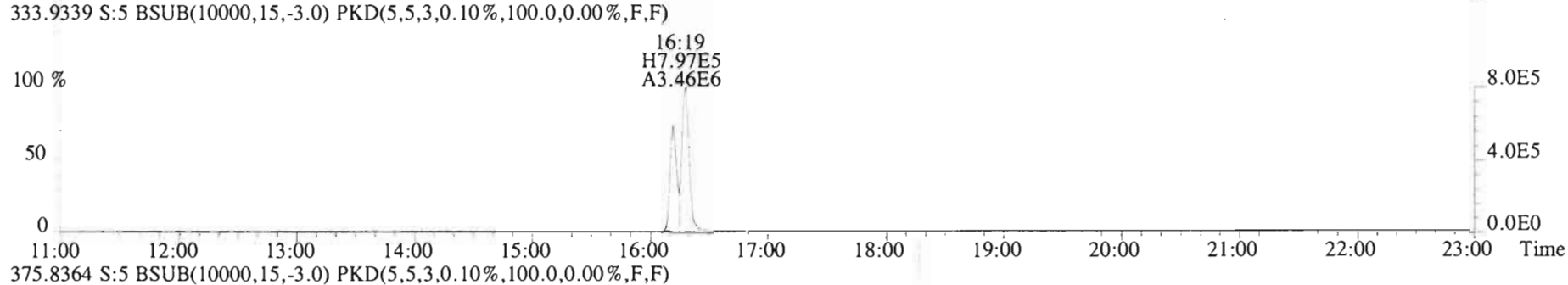
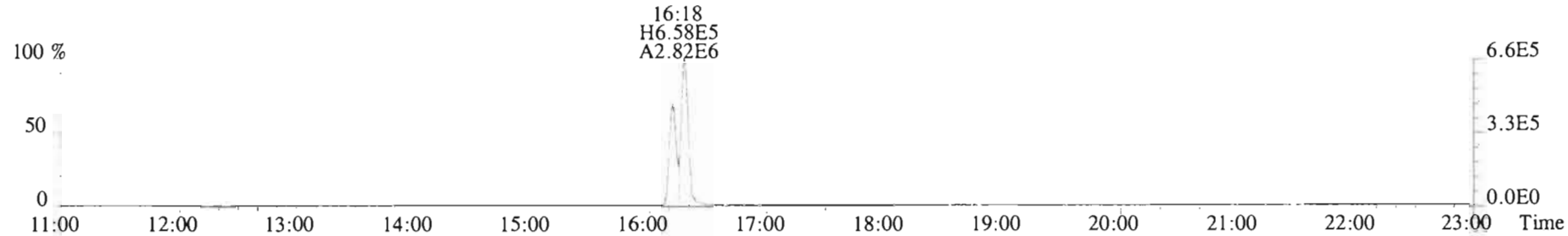
File:191216D1 #1-1682 Acq:16-DEC-2019 16:10:34 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 File Text:Vista Analytical Laboratory VG7 Text:1904021-01RE1 PDI-1142RAB-20-30.4-191112 11.65 Exp:TCDF_DB225
 303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:191216D1 #1-1682 Acq:16-DEC-2019 16:10:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG7 Text:1904021-01RE1 PDI-1142RAB-20-30.4-191112 11.65 Exp:TCDF_DB225
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File:191216D1 #1-1682 Acq:16-DEC-2019 16:10:34 GC EI+ Voltage SIR Autospec-UltimaE
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 331.9368 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



Client ID: PDI-142RAB-20-30.4-1917
Lab ID: 1904021-04RE1

Filename: 191216D1 S:4
GC Column ID: DB-225 ICal: 1613TCDFVG7-5-30-19 wt/vol:10.151

✓ ConCal: ST191216D1-1
EndCAL: NA

Name	Resp	RA	RT	RRF	Conc	Rec
13C-1,2,3,4-TCDF	1.01e+07	0.81 y	15:35	1.00	197.0	-
13C-2,3,7,8-TCDF	9.23e+06	0.82 y	17:41	1.02	176.9	89.8
2,3,7,8-TCDF	3.04e+04	0.66 y	17:41	0.95	0.6842	

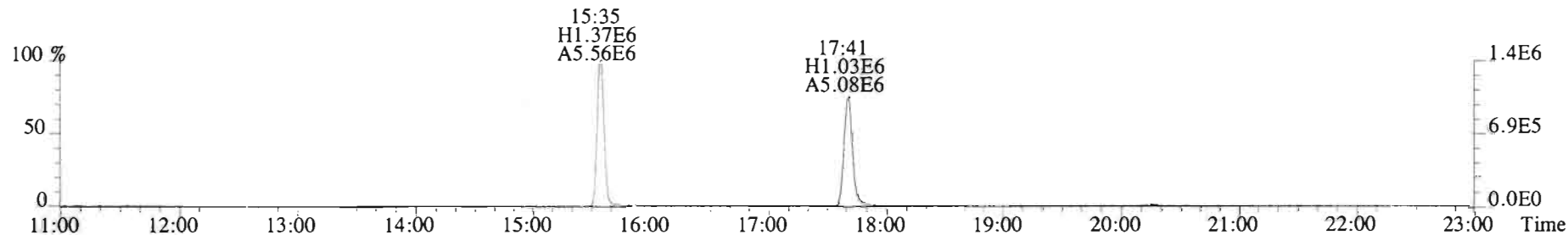
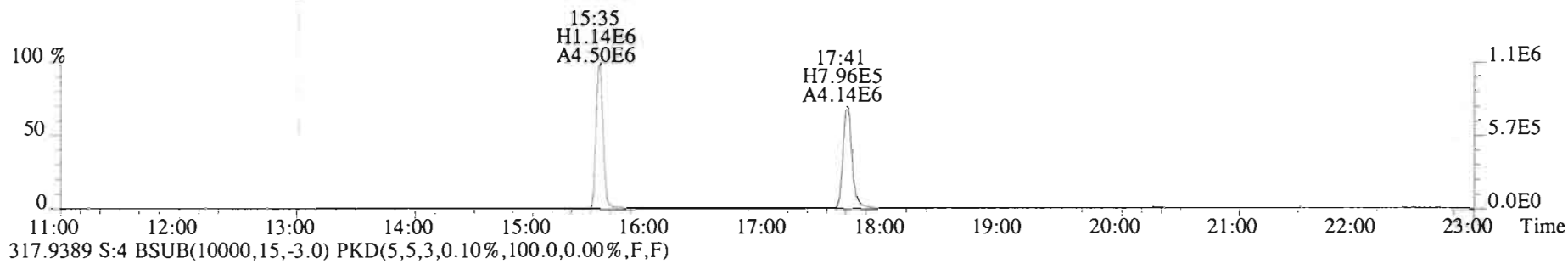
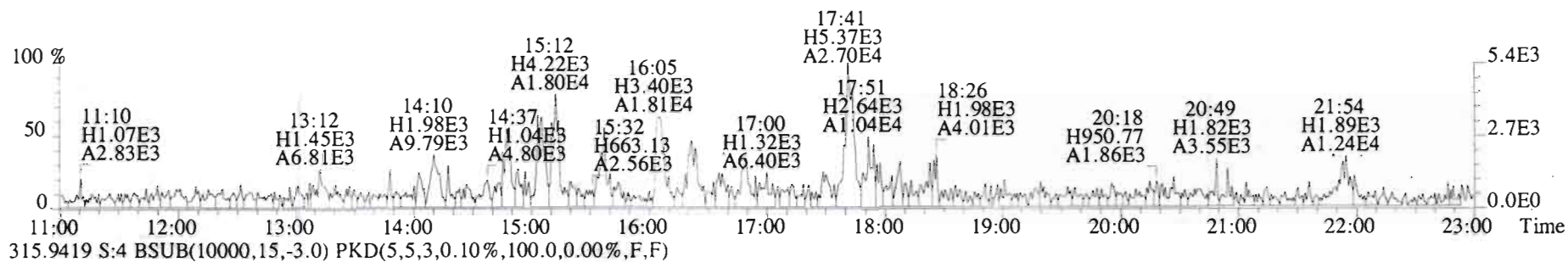
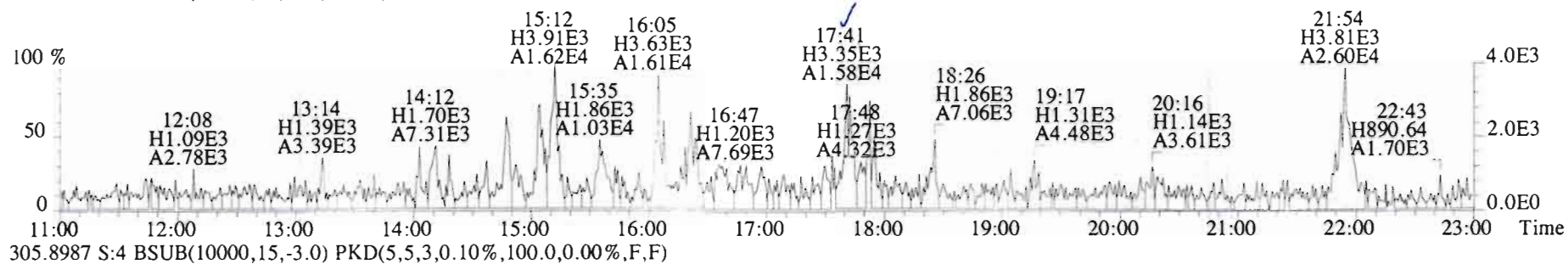
Integrations
by
Analyst: DB

Date: 12/16/19

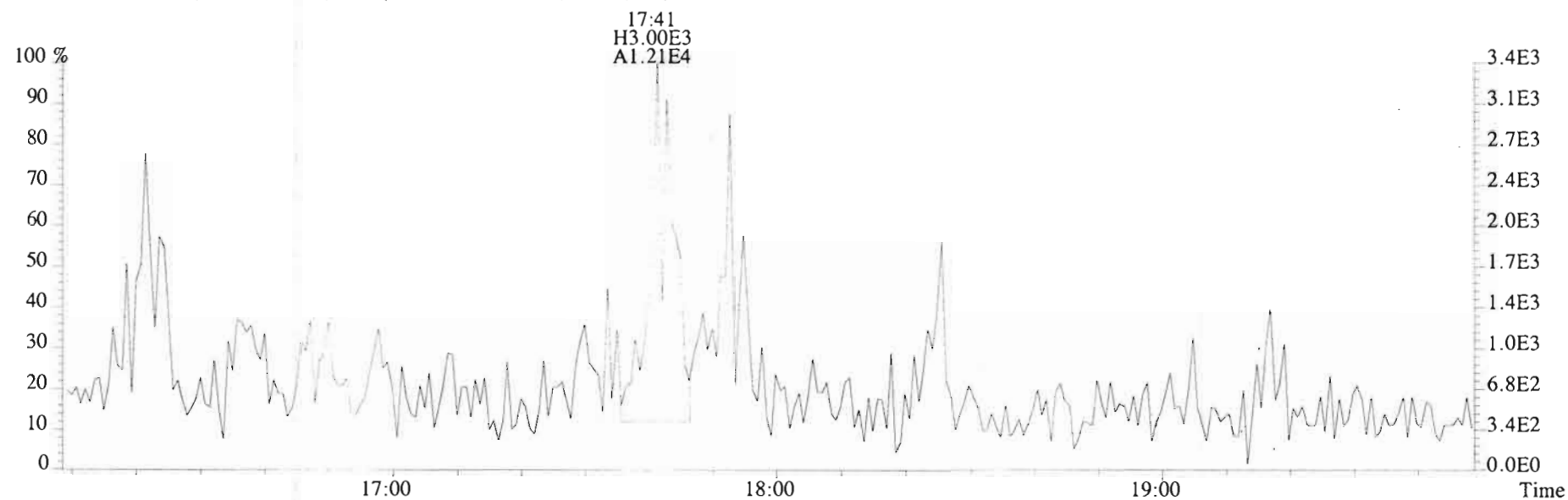
Reviewed
by
Analyst: CT

Date: 12/20/19

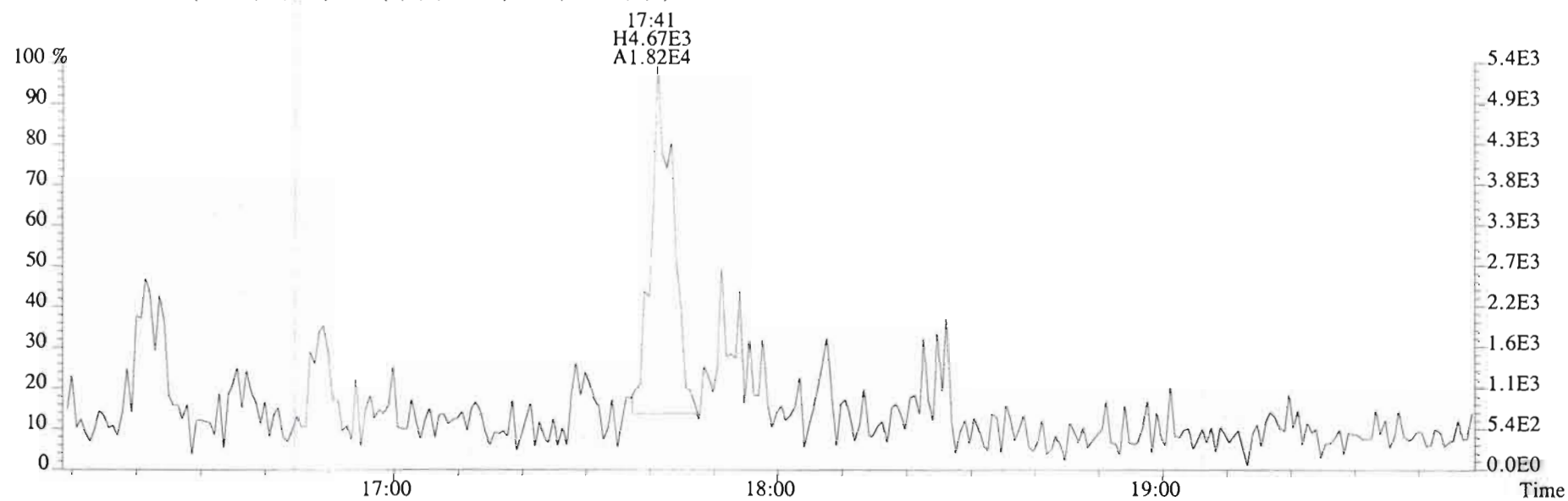
File:191216D1 #1-1682 Acq:16-DEC-2019 15:38:18 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 File Text:Vista Analytical Laboratory VG7 Text:1904021-04RE1 PDI-142RAB-20-30.4-191112 11.53 Exp:TCDF_DB225
 303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



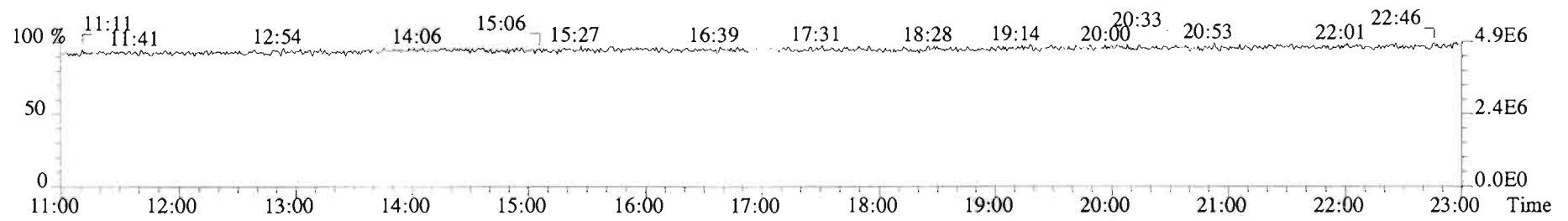
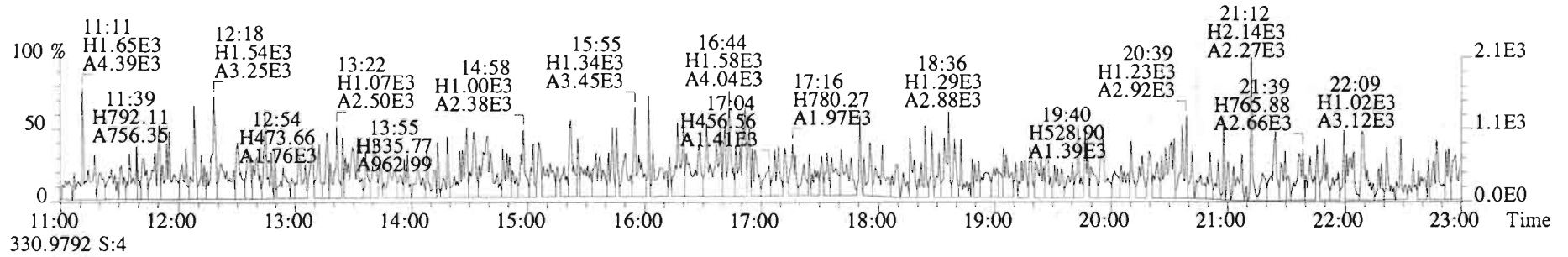
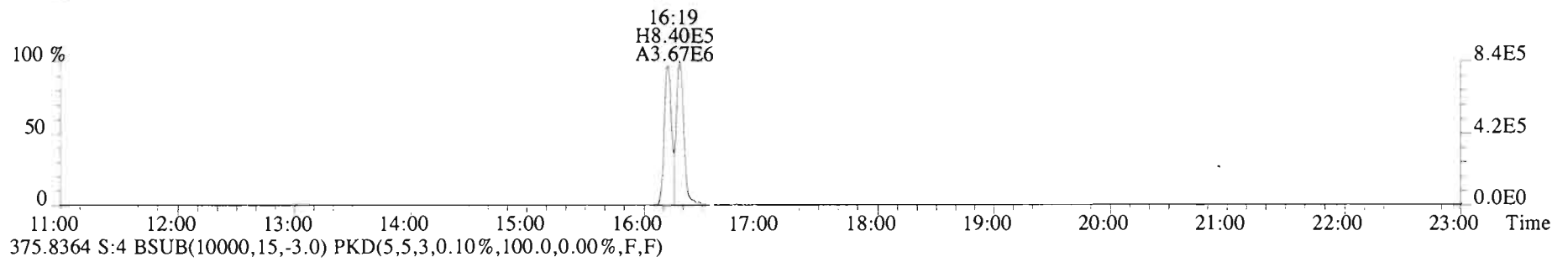
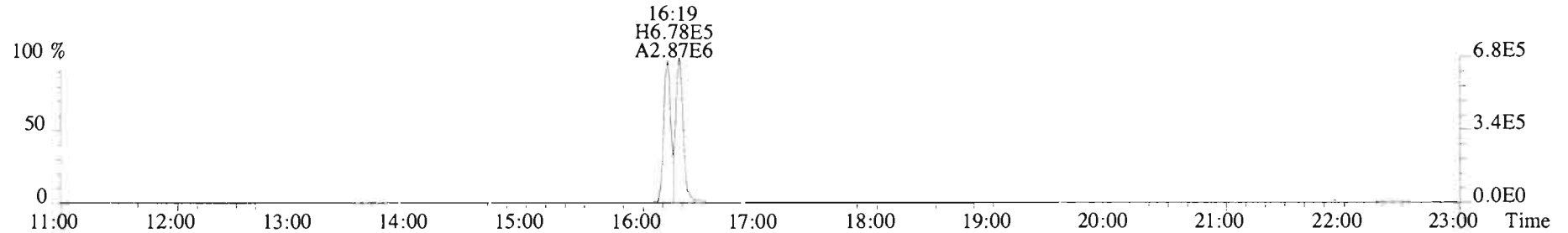
File:191216D1 #1-1364 Acq:16-DEC-2019 15:38:18 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG7 Text:1904021-04RE1 PDI-142RAB-20-30.4-191112 11.53 Exp:TCDF_DB225
303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



305.8987 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:191216D1 #1-1682 Acq:16-DEC-2019 15:38:18 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 File Text:Vista Analytical Laboratory VG7 Text:1904021-04RE1 PDI-142RAB-20-30.4-191112 11.53 Exp:TCDF_DB225
 331.9368 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



SAMPLE DATA – EPA METHOD 1699

Dataset: U:\VG11.PRO\Results\191122K3\191122K3-13.qld

Last Altered: Tuesday, November 26, 2019 08:05:46 Pacific Standard Time

Printed: Tuesday, November 26, 2019 08:07:59 Pacific Standard Time

GRB 11/26/19

C702/04/2020

Method: U:\VG11.PRO\MethDB\1699rrt-11-21-19.mdb 21 Nov 2019 11:39:32

Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-11-22-19-LIMITEDB.cdb 23 Nov 2019 13:11:31

Name: 191122K3_13, Date: 23-Nov-2019, Time: 01:54:28, ID: B9K0170-BLK1 Method Blank 1, Description: Method Blank

#	Name	Resp	IS Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	RRT Fail	Conc.	%Rec	DL	EMPC
1	2 Hexachlorobenzene	9.06e3	3.85e5	1.12	NO	0.874	1.000	22.83	22.83	1.001	1.001	NO	26.9		0.304	26.9
2	3 Alpha-BHC		2.64e5		NO	0.760	1.000	23.40			1.002	YES			2.77	
3	4 Lindane (gamma-BHC)		2.04e5		NO	0.744	1.000	26.66			1.001	YES			4.67	
4	5 Beta-BHC		1.59e5		NO	0.896	1.000	28.71			1.000	YES			3.84	
5	6 Delta-BHC		1.83e5		NO	0.837	1.000	30.41			1.001	YES			3.69	
6	7 Heptachlor	1.41e2	9.97e4	0.45	YES	0.968	1.000	28.86	28.87	1.001	1.001	NO	1.45		1.05	0.819
7	9 Aldrin		1.39e5		NO	1.02	1.000	30.99			1.001	YES			1.67	
8	10 Oxychlorane		3.31e4		NO	0.992	1.000	33.59			1.001	YES			6.10	
9	11 cis-Heptachlor Epoxide		4.37e4		NO	1.00	1.000	34.38			1.001	YES			4.91	
10	12 trans-Heptachlor Epox...		4.37e4		NO	0.255	1.000	34.87			1.015	YES			19.3	
11	13 trans-Chlordane (gam...		3.17e4		NO	1.08	1.000	35.28			1.001	YES			5.81	
12	14 trans-Nonachlor		3.54e4		NO	1.00	1.000	35.47			1.001	YES			5.36	
13	15 cis-Chlordane		3.54e4		NO	0.981	1.000	35.96			1.014	YES			5.48	
14	16 Endosulfan I (alpha)		2.38e4		NO	1.11	1.000	36.07			1.001	YES			7.70	
15	18 2,4'-DDE		9.26e5		NO	0.854	1.000	35.94			1.000	YES			1.86	
16	19 4,4'-DDE	3.11e3	6.69e5	1.08	YES	0.873	1.000	37.03	37.03	1.000	1.000	NO	5.32		2.40	4.54
17	20 Dieldrin		8.75e4		NO	0.957	1.000	37.53			1.000	YES			2.73	
18	21 Endrin		5.47e4		NO	0.933	1.000	38.91			1.000	YES			4.35	
19	22 cis-Nonachlor		4.38e4		NO	0.956	1.000	39.22			1.000	YES			4.52	
20	23 Endosulfan II (beta)		1.29e4		NO	1.06	1.000	39.93			1.000	YES			13.0	
21	24 2,4'-DDD		7.96e5		NO	0.915	1.000	38.17			1.000	NO			3.42	
22	25 2,4'-DDT		5.02e5		NO	0.921	1.000	39.31			1.000	NO			5.32	
23	26 4,4'-DDD		6.79e5		NO	1.00	1.000	39.43			1.000	NO			3.31	
24	27 4,4'-DDT		4.04e5		NO	0.986	1.000	40.50			1.000	NO			5.55	
25	28 Endosulfan Sulfate		1.80e4		NO	0.928	1.000	41.67			1.000	YES			14.9	
26	29 4,4'-Methoxychlor		3.57e6		NO	1.14	1.000	43.53			1.000	NO			4.51	
27	30 Mirex		1.63e5		NO	0.932	1.000	44.10			1.000	YES			2.66	
28	31 Endrin Aldehyde		2.94e5		NO	0.887	1.000	41.07			1.000	YES			11.1	
29	32 Endrin Ketone		2.49e5		NO	0.911	1.000	44.22			1.000	YES			12.3	
30	34 13C6-Hexachlorobenz...	3.85e5	1.33e6	1.30	NO	0.691	1.000	22.82	22.81	0.873	0.874	NO	419	41.9	0.142	

Dataset: U:\VG11.PRO\Results\191122K3\191122K3-13.qld

Last Altered: Tuesday, November 26, 2019 08:05:46 Pacific Standard Time

Printed: Tuesday, November 26, 2019 08:07:59 Pacific Standard Time

Name: 191122K3_13, Date: 23-Nov-2019, Time: 01:54:28, ID: B9K0170-BLK1 Method Blank 1, Description: Method Blank

	# Name	Resp	IS Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	RRT Fail	Conc.	%Rec	DL	EMPC
31	35 13C6-Alpha-BHC	2.64e5	1.83e6	0.79	NO	0.246	1.000	23.37	23.35	0.894	0.895	NO	808	80.8	3.64	
32	36 13C6-Lindane (gamma)	2.04e5	1.33e6	0.79	NO	0.189	1.000	26.63	26.63	1.020	1.020	NO	811	81.1	4.73	
33	37 13C6-Beta-BHC	1.59e5	1.33e6	0.77	NO	0.141	1.000	28.68	28.70	1.099	1.098	NO	852	85.2	6.35	
34	38 13C6-Delta-BHC	1.83e5	1.33e6	0.80	NO	0.164	1.000	30.38	30.39	1.164	1.163	NO	834	83.4	5.43	
35	39 13C10-Heptachlor	9.97e4	1.33e6	1.25	NO	0.0770	1.000	28.81	28.83	1.104	1.103	NO	973	97.3	2.17	
36	40 13C12-Aldrin	1.39e5	1.33e6	1.61	NO	0.122	1.000	30.93	30.96	1.185	1.184	NO	862	86.2	3.36	
37	41 13C10-Oxychlorane	3.31e4	1.33e6	1.68	NO	0.0283	1.000	33.53	33.57	1.285	1.284	NO	879	87.9	14.5	
38	42 13C10-cis-Heptachlor ...	4.37e4	1.33e6	1.62	NO	0.0366	1.000	34.32	34.36	1.315	1.314	NO	896	89.6	11.2	
39	43 13C10-trans-Chlordan...	3.17e4	1.33e6	1.65	NO	0.0292	1.000	35.23	35.26	1.350	1.349	NO	816	81.6	14.0	
40	44 13C10-trans-Nonachlor	3.54e4	1.33e6	1.62	NO	0.0333	1.000	35.42	35.45	1.357	1.356	NO	797	79.7	12.3	
41	45 13C9-Endosulfan I (al...	2.38e4	1.33e6	1.57	NO	0.0212	1.000	36.00	36.05	1.380	1.378	NO	842	84.2	19.3	
42	46 13C12-2,4'-DDE	9.26e5	1.33e6	1.60	NO	0.763	1.000	35.95	35.93	0.996	0.996	NO	911	91.1	4.08	
43	47 13C12-4,4'-DDE	6.69e5	1.33e6	1.59	NO	0.552	1.000	37.01	37.01	1.025	1.026	NO	910	91.0	5.64	
44	48 13C12-Dieldrin	8.75e4	1.33e6	1.52	NO	0.0749	1.000	37.51	37.51	1.039	1.039	NO	877	87.7	7.32	
45	49 13C12-Endrin	5.47e4	1.33e6	1.56	NO	0.0351	1.000	38.92	38.91	1.078	1.078	NO	1170	117	15.6	
46	50 13C10-cis-Nonachlor	4.38e4	1.33e6	1.64	NO	0.0389	1.000	39.20	39.21	1.086	1.086	NO	845	84.5	14.1	
47	51 13C9-Endosulfan II	1.29e4	1.33e6	1.82	NO	0.0112	1.000	39.93	39.93	1.106	1.106	NO	868	86.8	49.0	
48	52 13C12-2,4'-DDD	7.96e5	1.33e6	1.60	NO	0.588	1.000	38.10	38.17	1.461	1.459	NO	1020	102	3.86	
49	53 13C12-2,4'-DDT	5.02e5	1.33e6	1.63	NO	0.370	1.000	39.23	39.29	1.504	1.502	NO	1020	102	6.13	
50	54 13C12-4,4'-DDD	6.79e5	1.33e6	1.61	NO	0.473	1.000	39.35	39.41	1.509	1.507	NO	1080	108	4.80	
51	55 13C12-4,4'-DDT	4.04e5	1.33e6	1.58	NO	0.280	1.000	40.41	40.48	1.550	1.547	NO	1080	108	8.10	
52	56 13C9-Endosulfan Sulf...	1.80e4	1.33e6	1.51	NO	0.0173	1.000	41.66	41.67	1.154	1.154	NO	781	78.1	33.1	
53	57 13C12-Methoxychlor	3.57e6	1.33e6	22.68	NO	0.257	1.000	43.53	43.52	1.206	1.206	NO	10400	104	16.5	
54	58 13C10-Mirex	1.63e5	1.33e6	1.60	NO	0.164	1.000	44.08	44.07	1.221	1.221	NO	744	74.4	5.58	
55	59 13C12-Endrin Aldehyde	2.94e5	1.33e6	0.50	NO	0.0345	1.000	41.06	41.05	1.137	1.138	NO	6390	63.9	27.9	
56	60 13C12-Endrin Ketone	2.49e5	1.33e6	0.47	NO	0.0222	1.000	44.22	44.22	1.225	1.225	NO	8420	84.2	43.4	
57	62 13C-PCB-15	1.33e6	1.33e6	1.58	NO	1.00	1.000	26.18	26.12	1.000	1.000	NO	1000	100	0.841	

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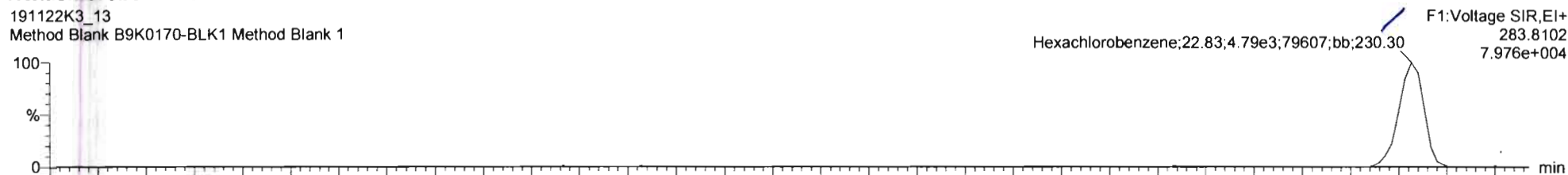
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Printed: Tuesday, November 26, 2019 07:59:16 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1699rrt-11-21-19.mdb 21 Nov 2019 11:39:32
Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-11-22-19-LIMITEDB.cdb 23 Nov 2019 13:11:31

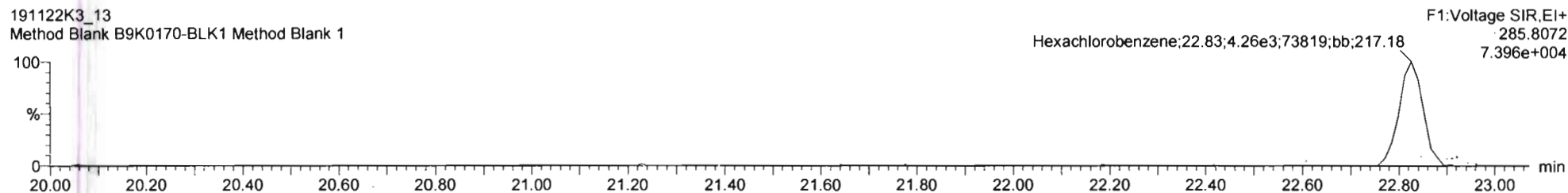
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Hexachlorobenzene

191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

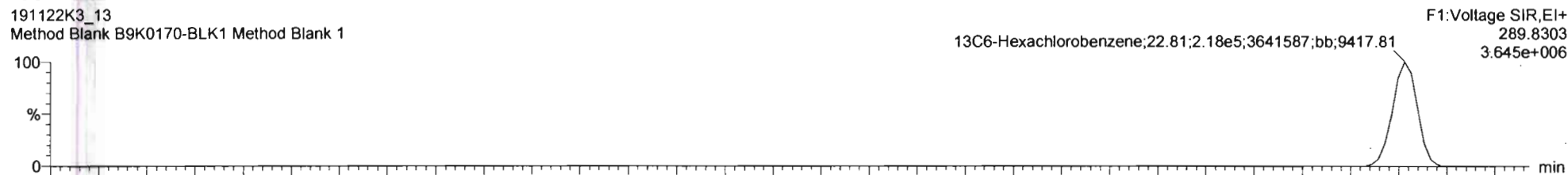


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Method Blank B9K0170-BLK1 Method Blank 1

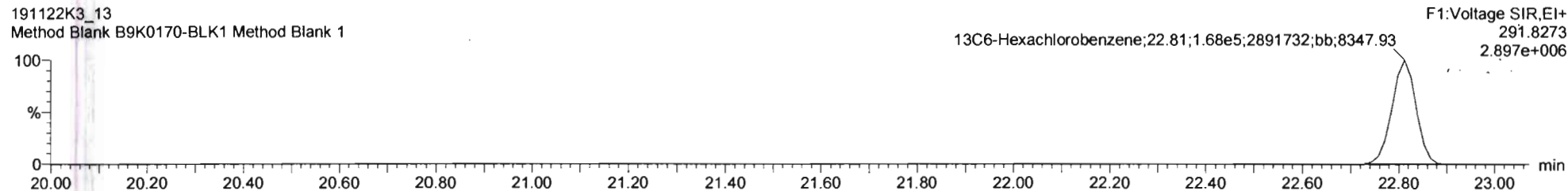


13C6-Hexachlorobenzene

191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1



191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1



Dataset: U:\VG11.PRO\Results\191122K3\191122K3-13.qld

Last Altered: Monday, November 25, 2019 11:36:28 Pacific Standard Time
Printed: Tuesday, November 26, 2019 07:59:16 Pacific Standard Time

Name: 191122K3_13, Date: 23-Nov-2019, Time: 01:54:28, ID: B9K0170-BLK1 Method Blank 1, Description: Method Blank

BHC Totals

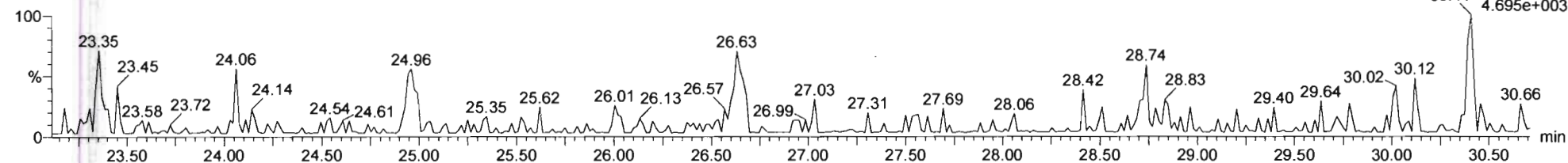
191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

F2:Voltage SIR,EI+
218.9116
9.596e+003



191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

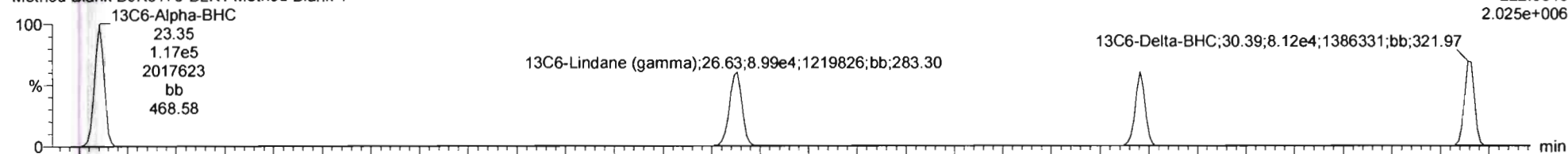
F2:Voltage SIR,EI+
220.9086
4.695e+003



BHC-isotopes

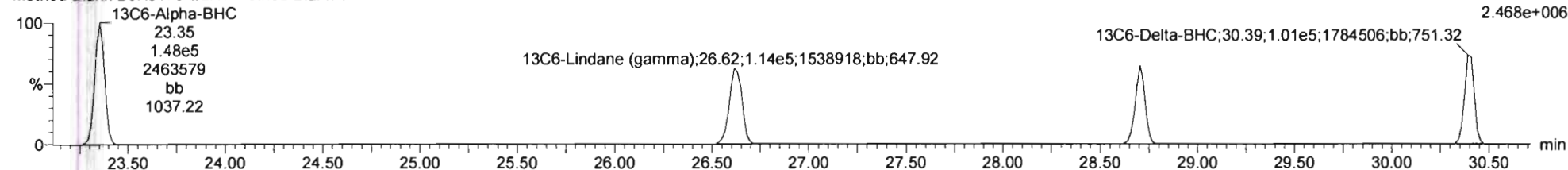
191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

F2:Voltage SIR,EI+
222.9346
2.025e+006



191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

F2:Voltage SIR,EI+
224.9317
2.468e+006



Dataset: U:\VG11.PRO\Results\191122K3\191122K3-13.qld

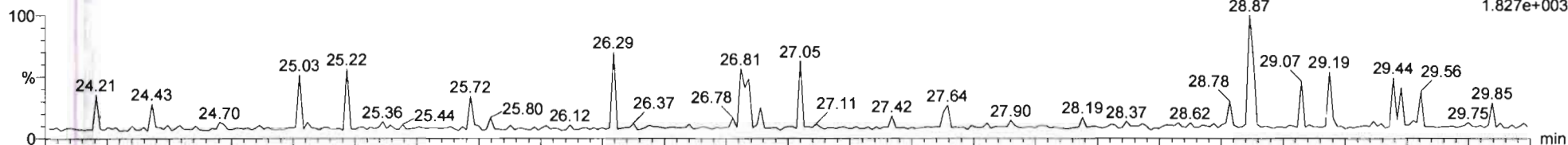
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Printed: Tuesday, November 26, 2019 07:59:16 Pacific Standard Time

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Heptachlor

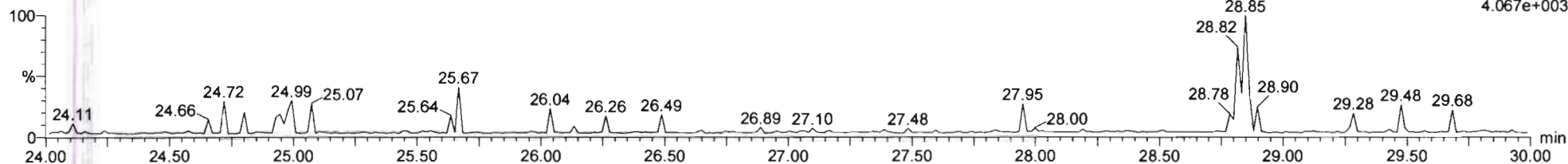
191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

F2:Voltage SIR,EI+
271.8102
1.827e+003



191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

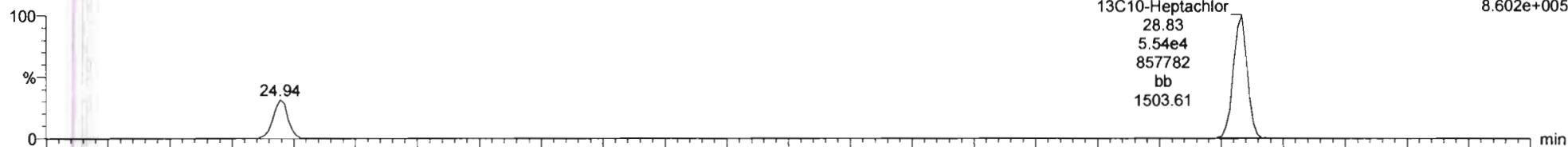
F2:Voltage SIR,EI+
273.8072
4.067e+003



13C10-Heptachlor

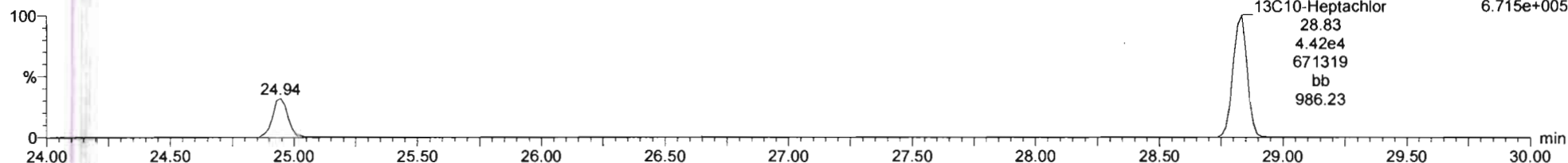
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Method Blank B9K0170-BLK1 Method Blank 1

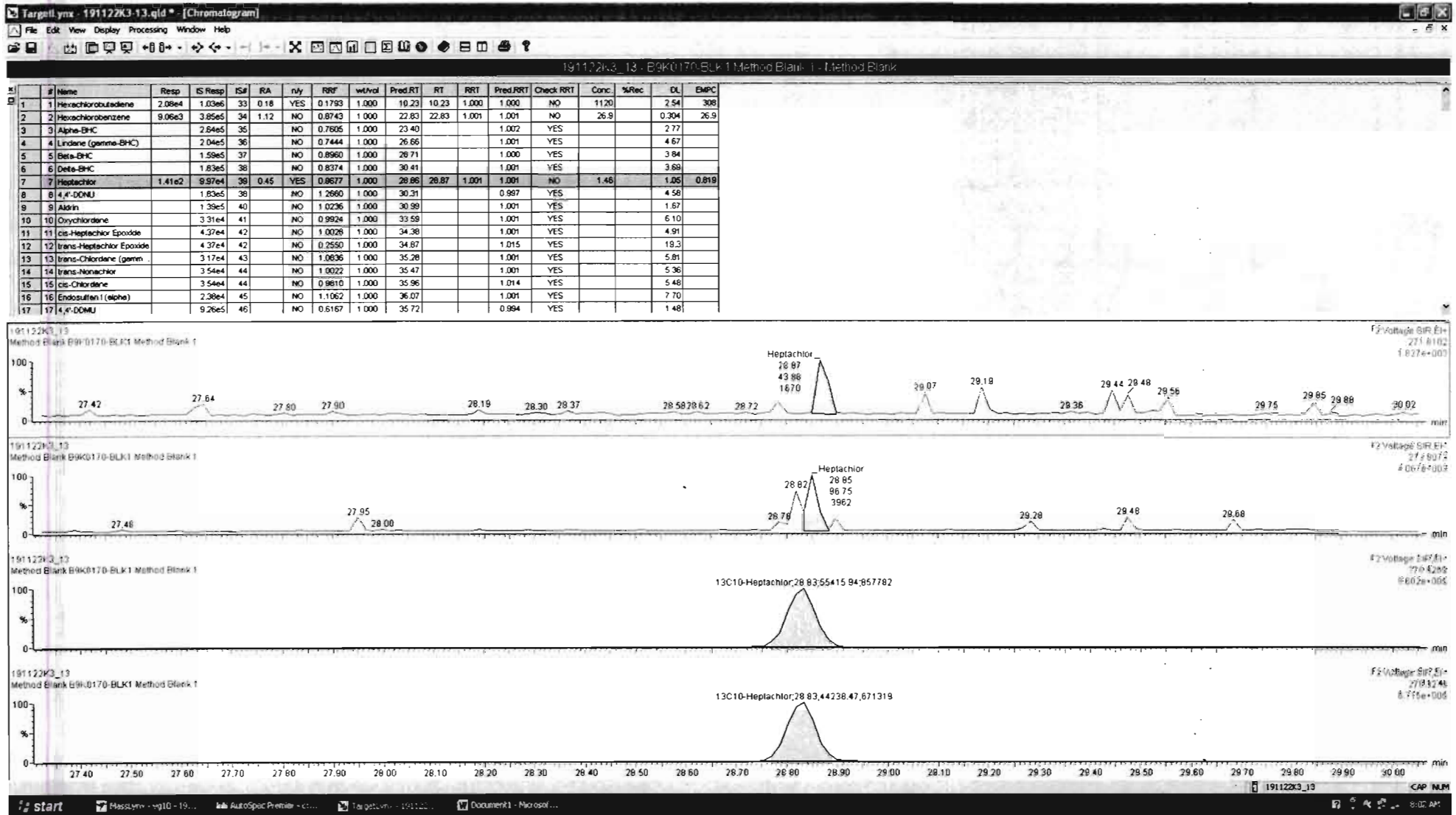
F2:Voltage SIR,EI+
276.8269
8.602e+005



191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

F2:Voltage SIR,EI+
278.8240
6.715e+005





Dataset: U:\VG11.PRO\Results\191122K3\191122K3-13.qld

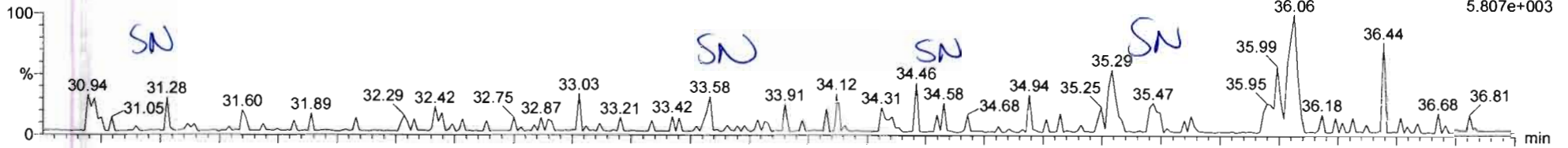
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Printed: Tuesday, November 26, 2019 07:59:16 Pacific Standard Time

Name: 191122K3_13, Date: 23-Nov-2019, Time: 01:54:28, ID: B9K0170-BLK1 Method Blank 1, Description: Method Blank

Aldrin-EI

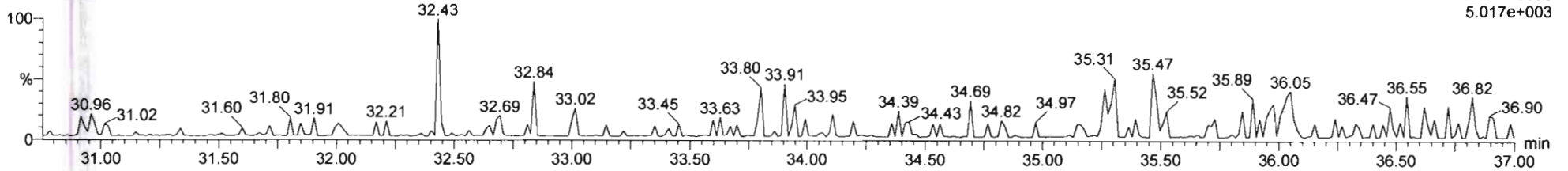
191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

F3:Voltage SIR,EI+
262.8569
5.807e+003



191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

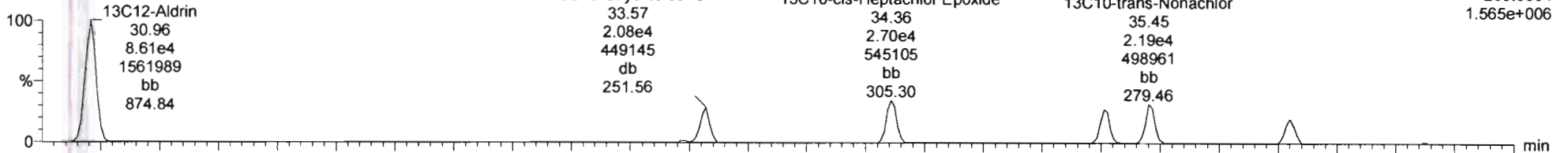
F3:Voltage SIR,EI+
264.8550
5.017e+003



Aldrin-EI-isotopes

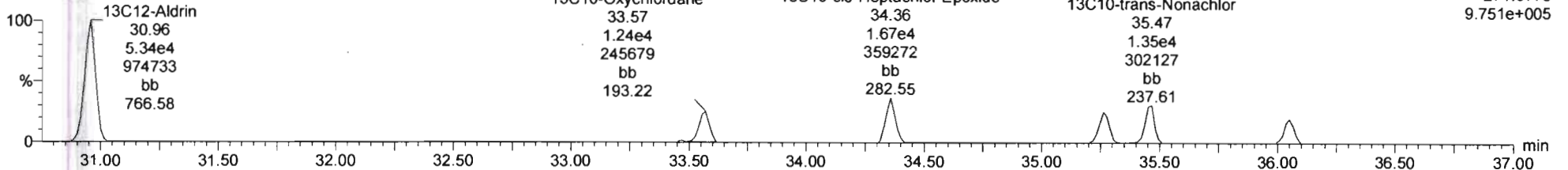
191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

F3:Voltage SIR,EI+
269.8804
1.565e+006



191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

F3:Voltage SIR,EI+
271.8775
9.751e+005



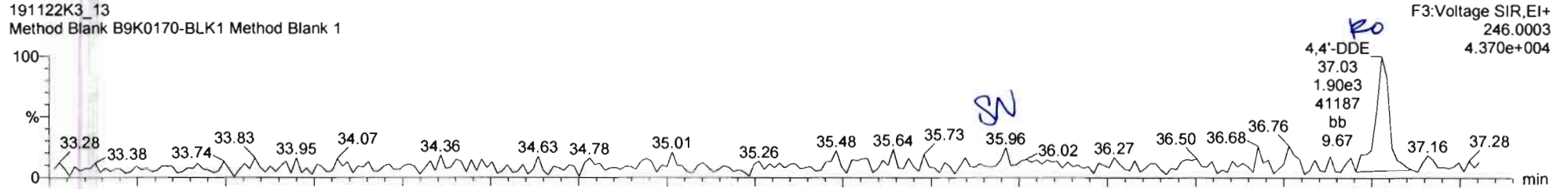
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Printed: Tuesday, November 26, 2019 07:59:16 Pacific Standard Time

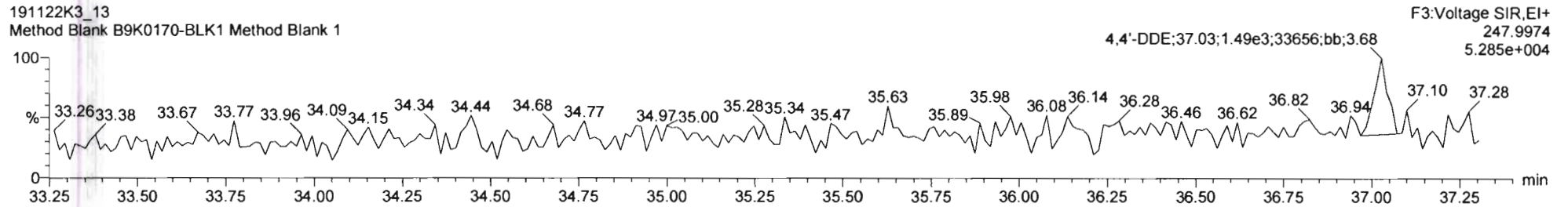
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DDMU-DDE

191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

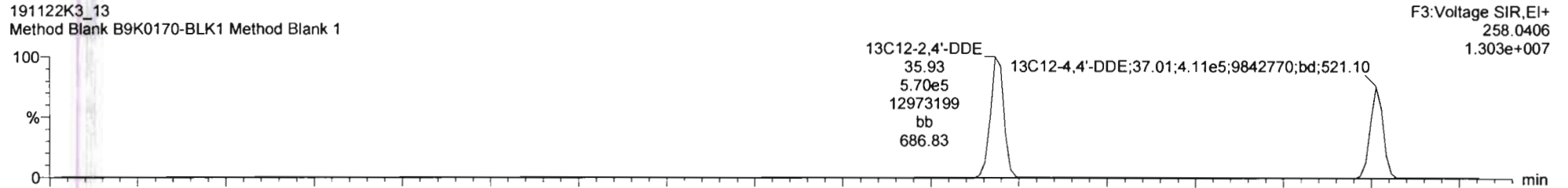


191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

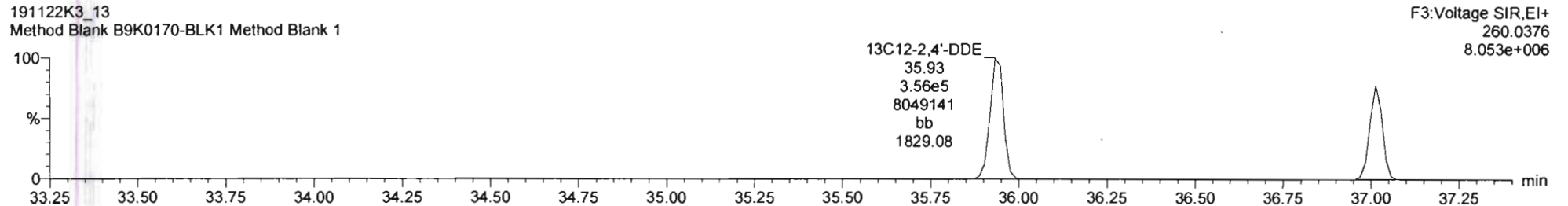


DDE-isotopes

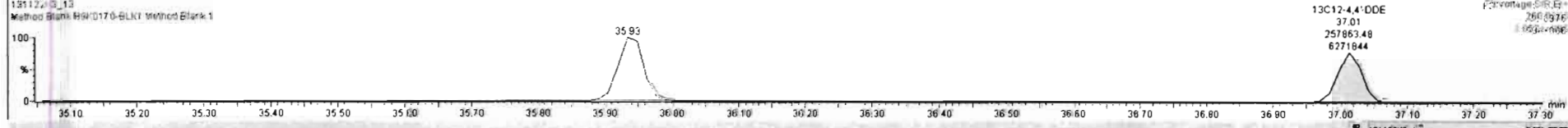
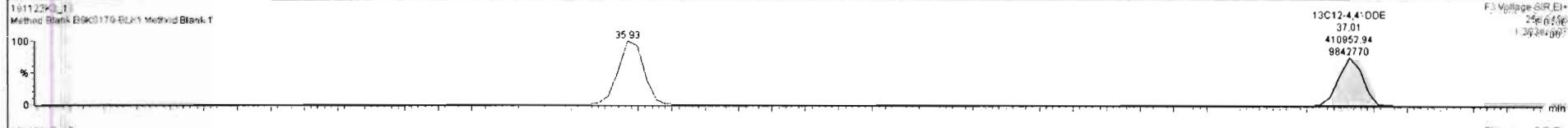
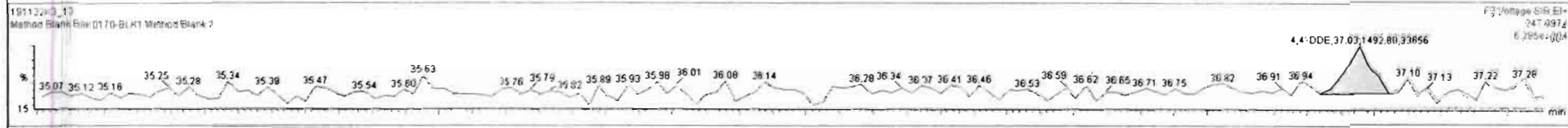
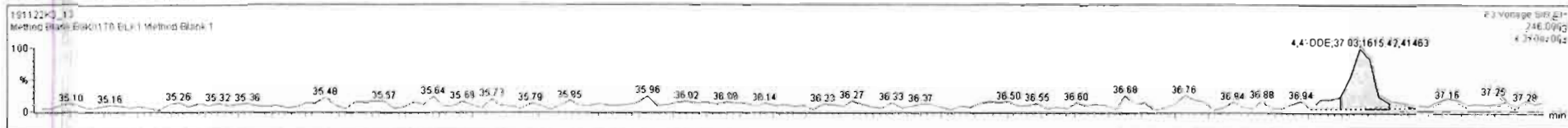
191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1



191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1



#	Name	Resp	IS Resp	SF	RA	n/y	RRF	wtAval	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC
18	2,4'-DDE		9.26e5	46		NO	0.8542	1.000	35.94			1.000	YES			1.86	
19	4,4'-DDE	3.11e3	6.68e5	47	1.08	YES	0.8728	1.000	37.03	37.03	1.000	1.000	NO	5.32		2.40	4.54
20	Dieldrin		8.75e4	48		NO	0.9570	1.000	37.53			1.000	YES			2.73	
21	Endrin		5.47e4	49		NO	0.9326	1.000	38.91			1.000	YES			4.35	
22	cis-Nonachlor		4.38e4	50		NO	0.9556	1.000	39.22			1.000	YES			4.52	
23	Endosulfan I (beta)		1.29e4	51		NO	1.0639	1.000	39.93			1.000	YES			13.0	
24	2,4'-DDD	1.02e3	7.96e5	52		NO	0.9153	1.000	38.17	38.17	1.000	1.000	NO	1.40		3.42	0.000
25	2,4'-DDT	9.27e2	5.00e5	53		NO	0.9205	1.000	39.31	39.31	1.000	1.000	NO	2.01		5.32	0.000
26	4,4'-DDD	2.50e3	6.79e5	54	0.76	YES	1.0039	1.000	39.43	39.43	1.000	1.000	NO	3.67		3.31	2.61
27	4,4'-DDT	4.90e3	4.04e5	55	1.21	NO	0.9865	1.000	40.50	40.50	1.000	1.000	NO	12.3		5.55	12.3
28	Endosulfan Sulfate		1.80e4	56		NO	0.9279	1.000	41.67			1.000	YES			14.9	
29	4,4'-Methoxychlor	1.44e3	3.57e6	57		NO	1.1362	1.000	43.53	43.54	1.000	1.000	NO	3.56		4.51	0.000
30	Mirex		1.63e5	58		NO	0.9323	1.000	44.10			1.000	YES			2.66	
31	Endrin Aldehyde		2.94e5	59		NO	0.8867	1.000	41.07			1.000	YES			11.1	
32	Endrin Ketone		2.49e5	60		NO	0.9108	1.000	44.22			1.000	YES			12.3	
33	13C4-Hexachlorobutadiene	1.03e6	1.33e6	62	1.26	NO	1.1382	1.000	10.19	10.23	0.992	0.990	NO	5610	56.1	0.790	
34	13C6-Hexachlorobenzene	3.85e5	1.33e6	62	1.30	NO	0.6911	1.000	22.82	22.81	0.873	0.874	NO	419	41.9	0.142	



Dataset: U:\VG11.PRO\Results\191122K3\191122K3-13.qld

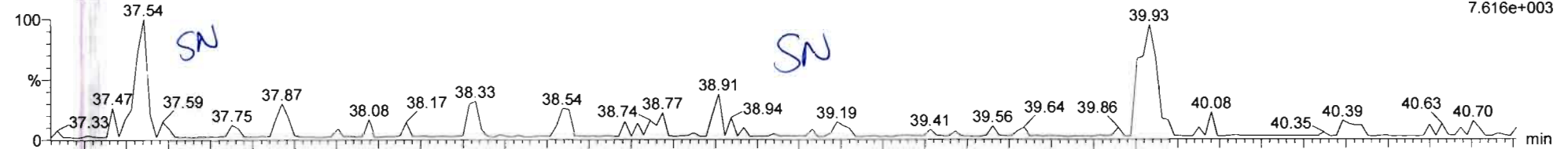
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Printed: Tuesday, November 26, 2019 07:59:16 Pacific Standard Time

Name: 191122K3_13, Date: 23-Nov-2019, Time: 01:54:28, ID: B9K0170-BLK1 Method Blank 1, Description: Method Blank

Dieldrin-EI1

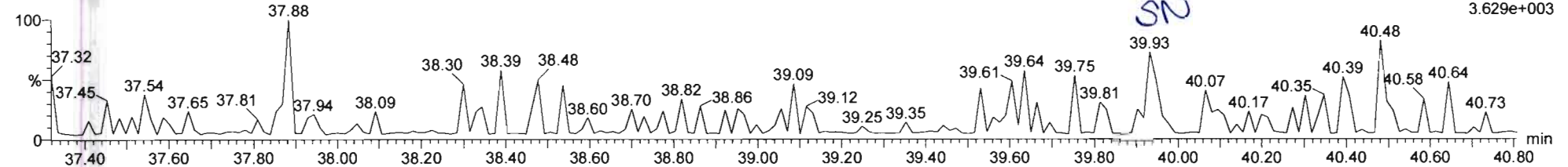
191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

F4:Voltage SIR,EI+
262.8569
7.616e+003



191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

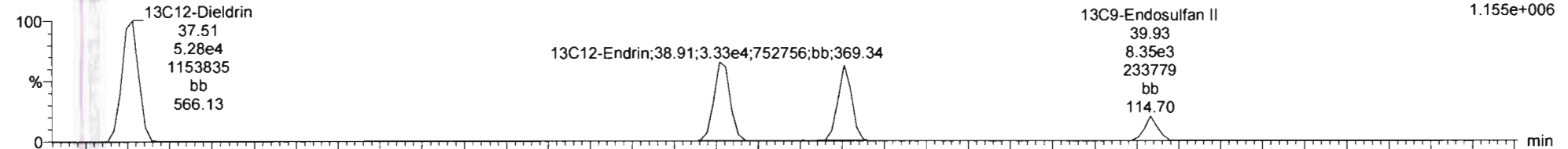
F4:Voltage SIR,EI+
264.8550
3.629e+003



Dieldrin-EI1-isotopes

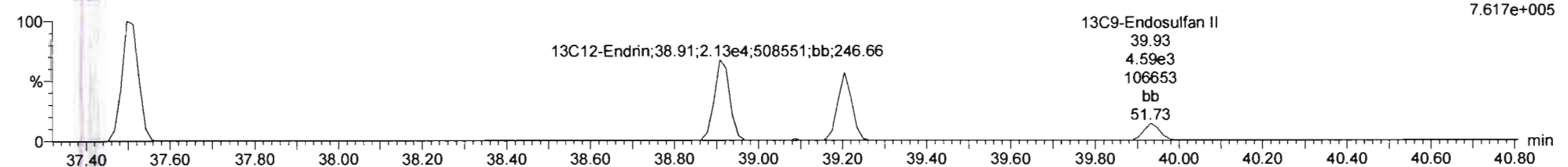
191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

F4:Voltage SIR,EI+
269.8804
1.155e+006



191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

F4:Voltage SIR,EI+
271.8775
7.617e+005



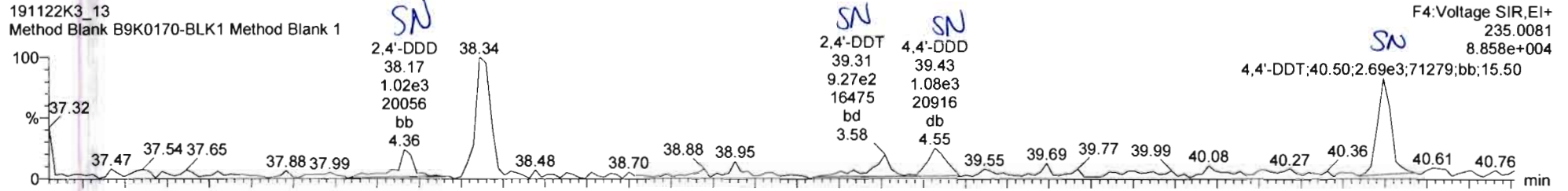
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Printed: Tuesday, November 26, 2019 07:59:16 Pacific Standard Time

Name: 191122K3_13, Date: 23-Nov-2019, Time: 01:54:28, ID: B9K0170-BLK1 Method Blank 1, Description: Method Blank

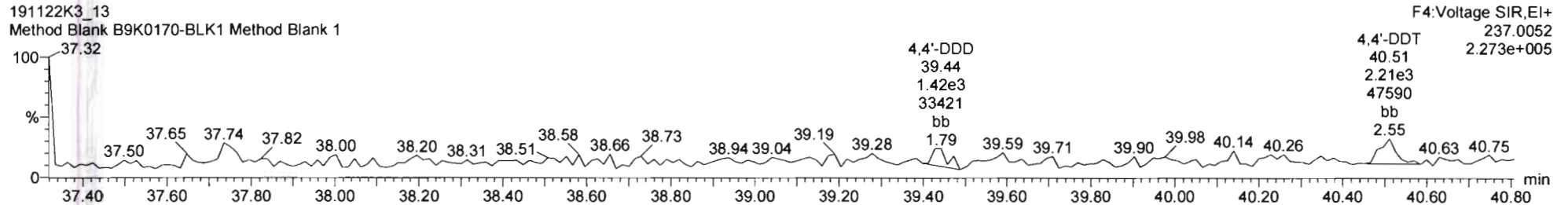
DDD-DDT

191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1



F4:Voltage SIR,EI+
235.0081
8.858e+004

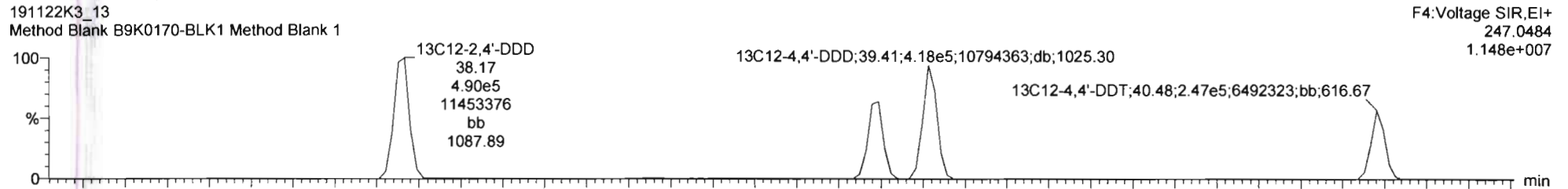
191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1



F4:Voltage SIR,EI+
237.0052
2.273e+005

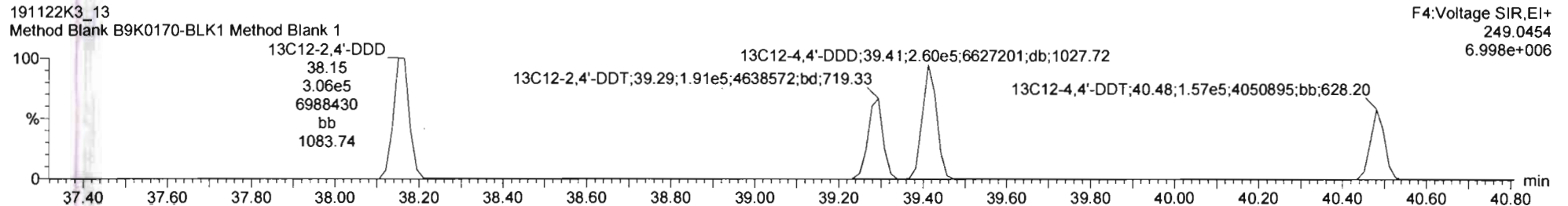
DDD-DDT-isotopes

191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1



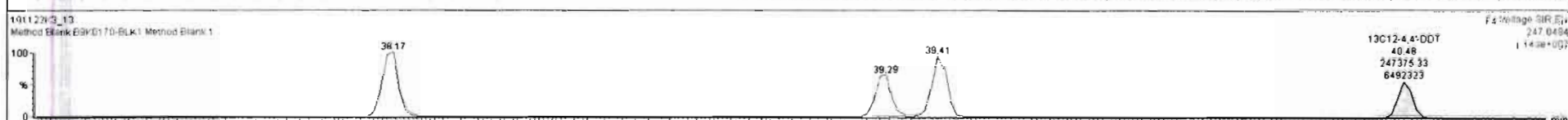
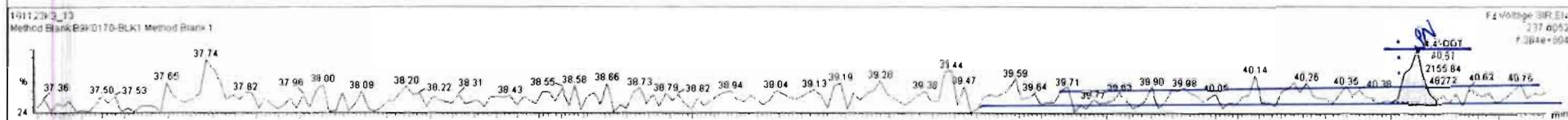
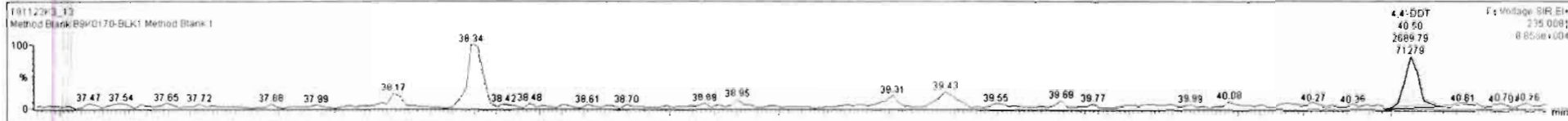
F4:Voltage SIR,EI+
247.0484
1.148e+007

191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1



F4:Voltage SIR,EI+
249.0454
6.998e+006

#	Name	Resp	IS Resp	IS#	RA	nly	RRF	wt/vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC
18	2,4'-DDE		9.26e5	46		NO	0.8542	1.000	35.94			1.000	YES			1.86	
19	4,4'-DDE	3.11e3	6.69e5	47	1.08	YES	0.8728	1.000	37.03	37.03	1.000	1.000	NO	5.32		2.40	4.54
20	Dieldrin		8.75e4	48		NO	0.9570	1.000	37.53			1.000	YES			2.73	
21	Endrin		5.47e4	49		NO	0.9326	1.000	38.91			1.000	YES			4.35	
22	cis-Nonachlor		4.38e4	50		NO	0.9556	1.000	39.22			1.000	YES			4.52	
23	Endosulfan I (beta)		1.29e4	51		NO	1.0639	1.000	39.93			1.000	YES			13.0	
24	2,4'-DDD		7.96e5	52		NO	0.9153	1.000	38.17			1.000	NO			3.42	
25	2,4'-DDT		5.02e5	53		NO	0.9205	1.000	39.31			1.000	NO			5.32	
26	4,4'-DDD		6.79e5	54		NO	1.0039	1.000	39.43			1.000	NO			3.31	
27	4,4'-DDT	4.85e3	4.04e5	55	1.25	NO	0.9885	1.000	40.50	40.50	1.000	1.000	NO	12.1		5.55	12.1
28	Endosulfan Sulfate		1.80e4	56		NO	0.9279	1.000	41.67			1.000	YES			14.9	
29	4,4'-Methoxychlor	1.44e3	3.57e6	57		NO	1.1362	1.000	43.53	43.54	1.000	1.000	NO	3.56		4.51	0.000
30	Mirex		1.63e5	58		NO	0.9323	1.000	44.10			1.000	YES			2.66	
31	Endrin Aldehyde		2.94e5	59		NO	0.8867	1.000	41.07			1.000	YES			11.1	
32	Endrin Ketone		2.49e5	60		NO	0.9106	1.000	44.22			1.000	YES			12.3	
33	13C4-Hexachlorobenz	1.03e6	1.33e6	62	1.26	NO	0.1382	1.000	10.19	10.23	0.392	0.390	NO	5610	56.1	0.780	
34	13C5-Hexachlorobenz	3.85e5	1.33e6	62	1.30	NO	0.6811	1.000	22.82	22.81	0.873	0.874	NO	419	41.9	0.142	



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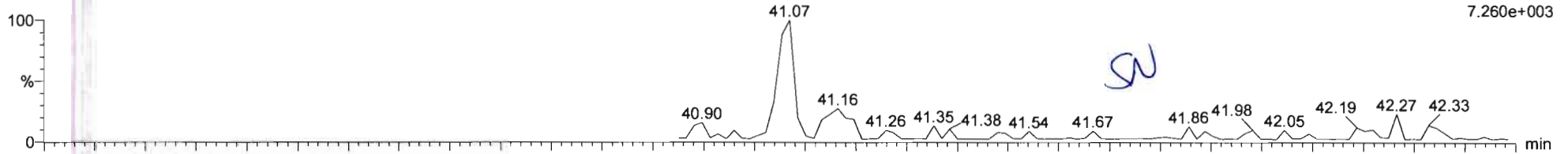
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Name: 191122K3_13, Date: 23-Nov-2019, Time: 01:54:28, ID: B9K0170-BLK1 Method Blank 1, Description: Method Blank

Endosulfan Sulfate

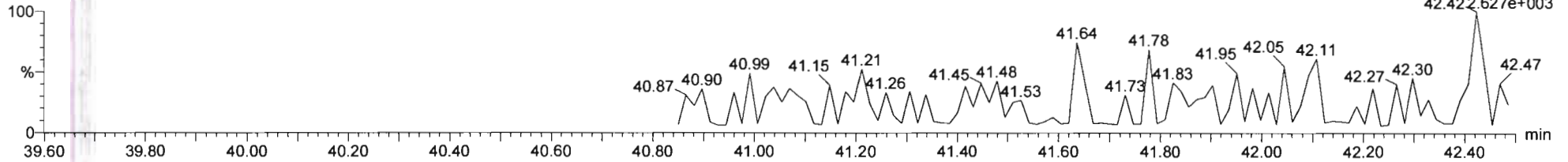
191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

F5:Voltage SIR,EI+
262.8569
7.260e+003



191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

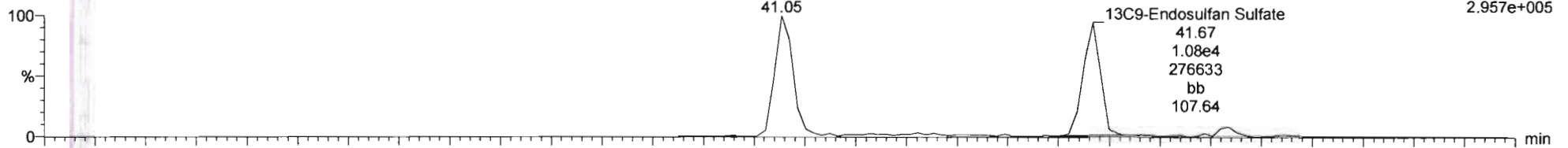
F5:Voltage SIR,EI+
264.8540
42.422627e+003



13C9-Endosulfan Sulfate

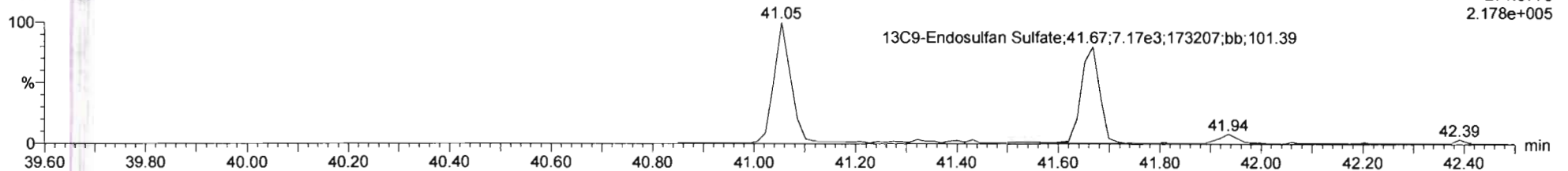
191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

F5:Voltage SIR,EI+
269.8804
2.957e+005



191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

F5:Voltage SIR,EI+
271.8775
2.178e+005



Dataset: U:\VG11.PRO\Results\191122K3\191122K3-13.qld

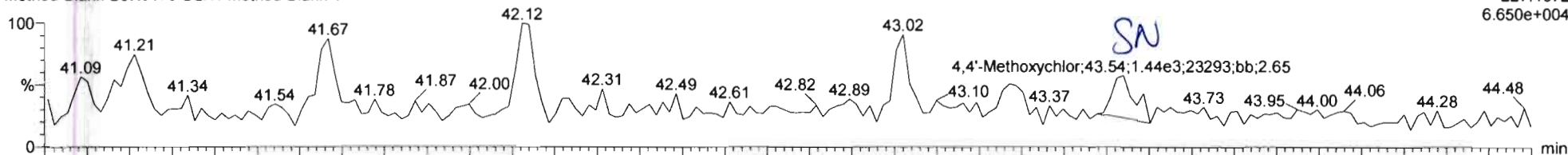
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Printed: Tuesday, November 26, 2019 07:59:16 Pacific Standard Time

Name: 191122K3_13, Date: 23-Nov-2019, Time: 01:54:28, ID: B9K0170-BLK1 Method Blank 1, Description: Method Blank

4,4'-Methoxychlor

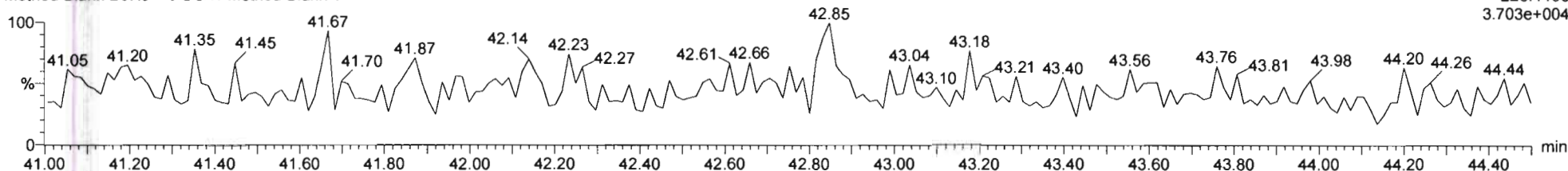
191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

F5:Voltage SIR,EI+
227.1072
6.650e+004



191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

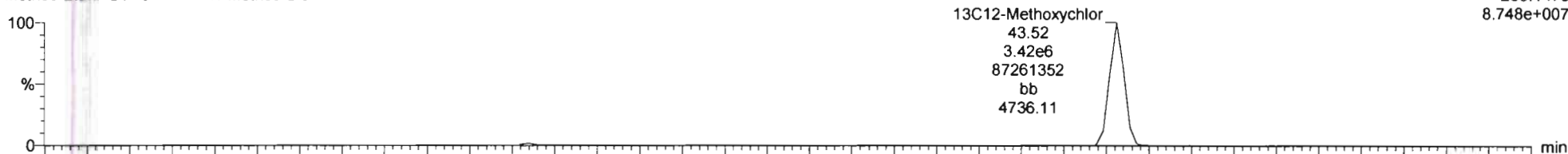
F5:Voltage SIR,EI+
228.1106
3.703e+004



13C12-Methoxychlor

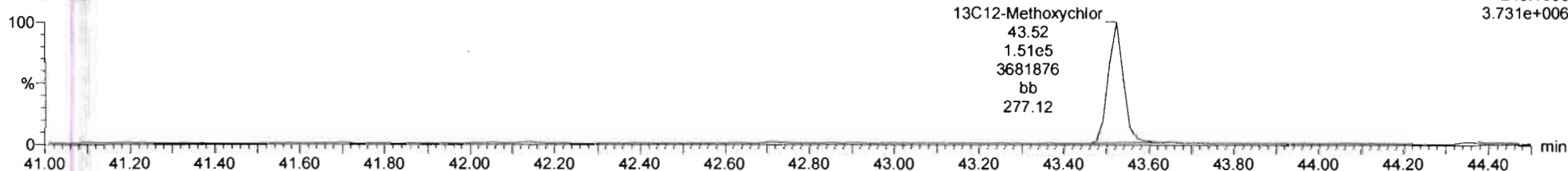
191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

F5:Voltage SIR,EI+
239.1475
8.748e+007



191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

F5:Voltage SIR,EI+
240.1508
3.731e+006



Dataset: U:\VG11.PRO\Results\191122K3\191122K3-13.qld

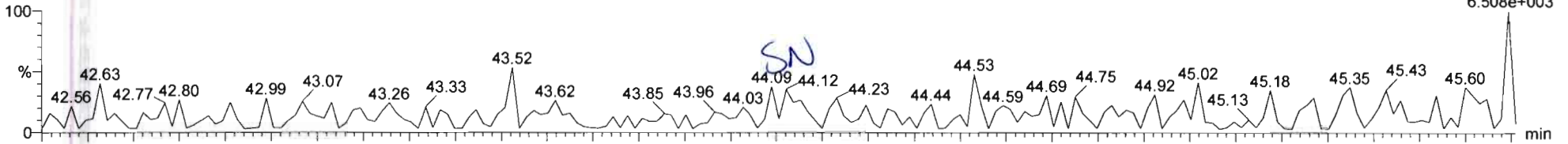
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Name: 191122K3_13, Date: 23-Nov-2019, Time: 01:54:28, ID: B9K0170-BLK1 Method Blank 1, Description: Method Blank

Mirex

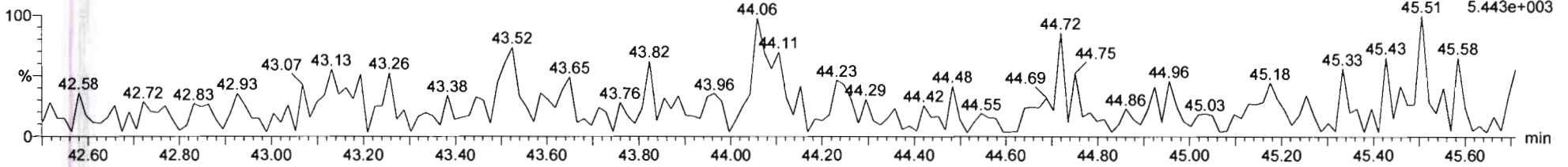
191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

F5:Voltage SIR,EI+
236.8413
6.508e+003



191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

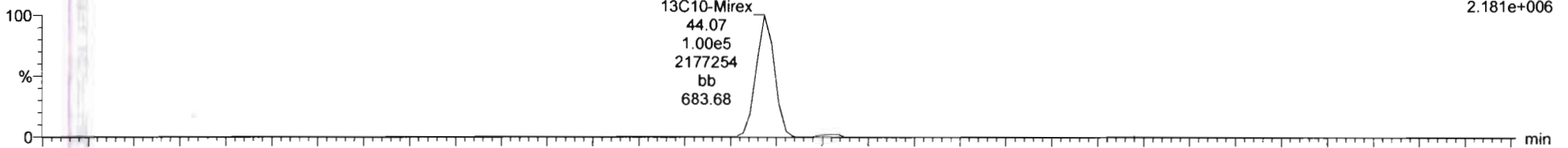
F5:Voltage SIR,EI+
238.8384
5.443e+003



13C10-Mirex

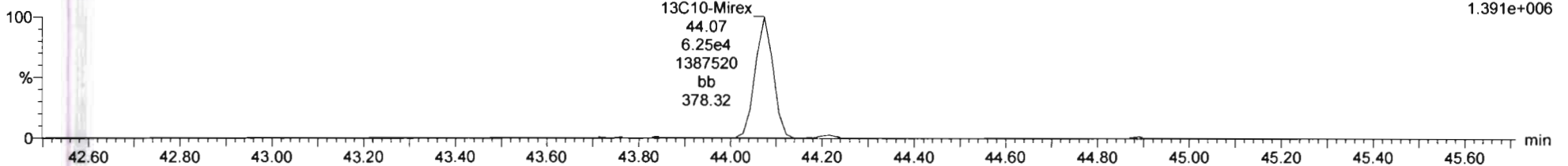
191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

F5:Voltage SIR,EI+
241.8581
2.181e+006



191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

F5:Voltage SIR,EI+
243.8551
1.391e+006



Dataset: U:\VG11.PRO\Results\191122K3\191122K3-13.qld

Last Altered: Monday, November 25, 2019 11:36:28 Pacific Standard Time

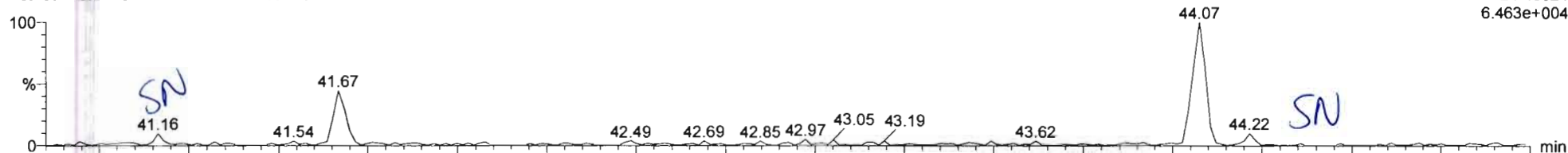
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Name: 191122K3_13, Date: 23-Nov-2019, Time: 01:54:28, ID: B9K0170-BLK1 Method Blank 1, Description: Method Blank

EA-EK

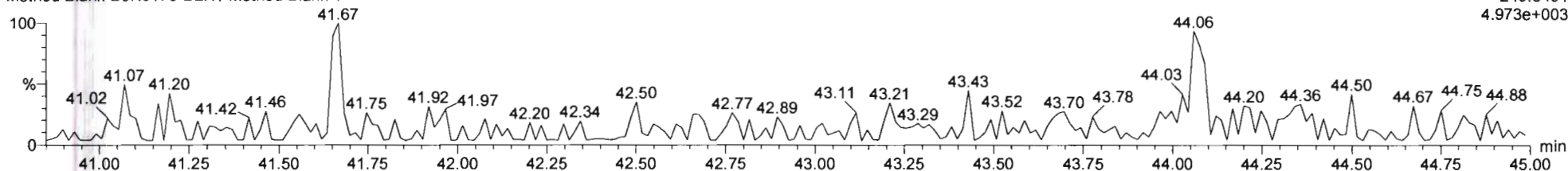
191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

F5:Voltage SIR,EI+
247.8521
6.463e+004



191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

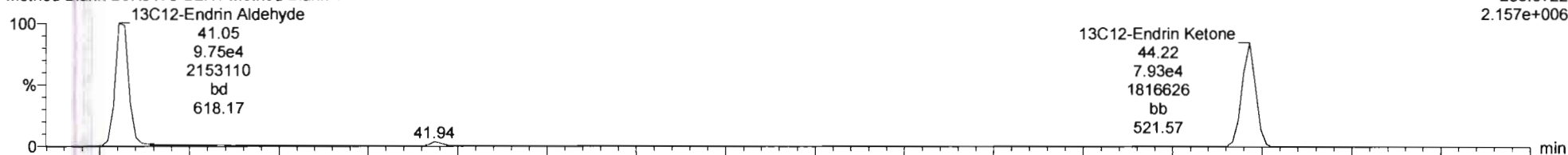
F5:Voltage SIR,EI+
249.8491
4.973e+003



EA-EK-isotopes

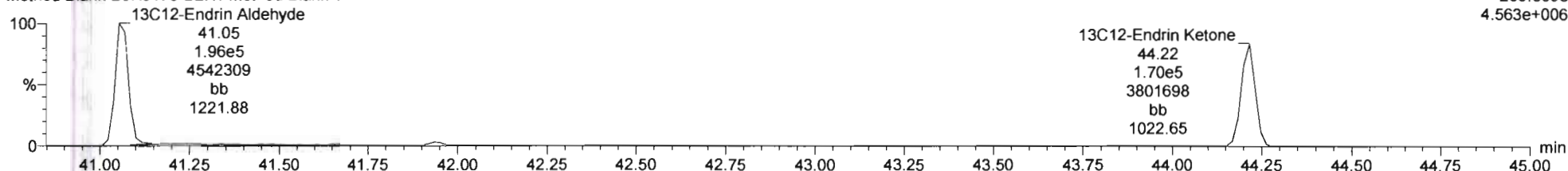
191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

F5:Voltage SIR,EI+
253.8722
2.157e+006



191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

F5:Voltage SIR,EI+
255.8693
4.563e+006



Dataset: U:\VG11.PRO\Results\191122K3\191122K3-13.qld

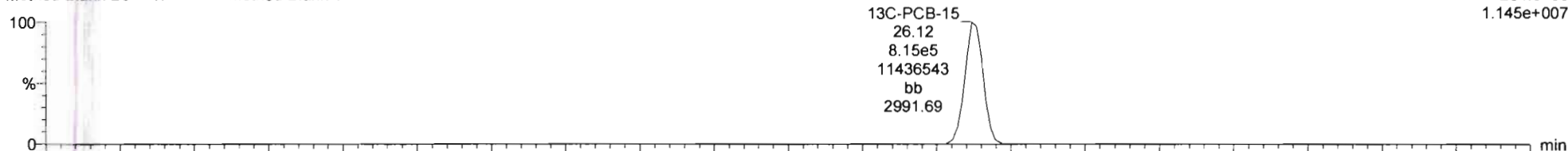
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Name: 191122K3_13, Date: 23-Nov-2019, Time: 01:54:28, ID: B9K0170-BLK1 Method Blank 1, Description: Method Blank

13C-PCB-15

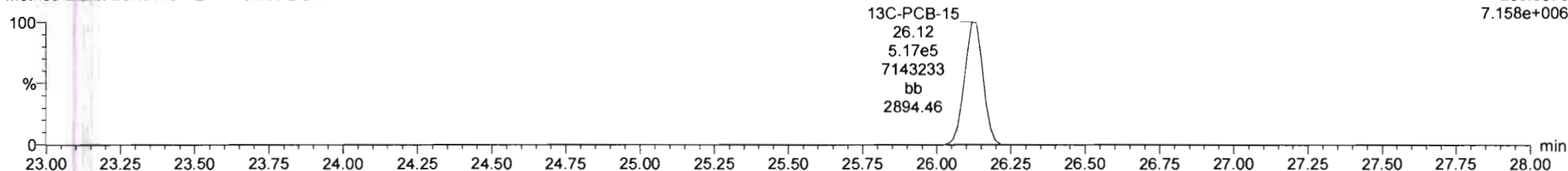
191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

F2:Voltage SIR,EI+
234.0406
1.145e+007



191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

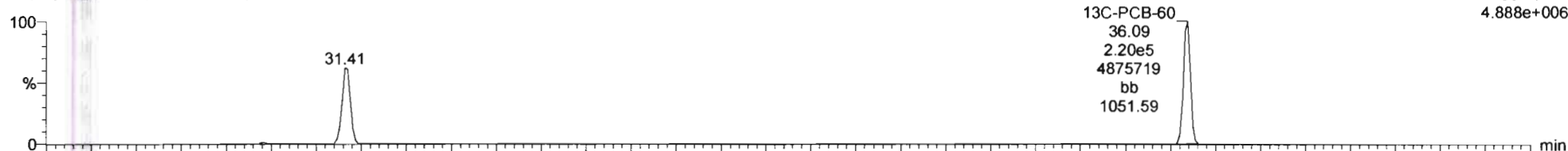
F2:Voltage SIR,EI+
236.0376
7.158e+006



13C-PCB-60

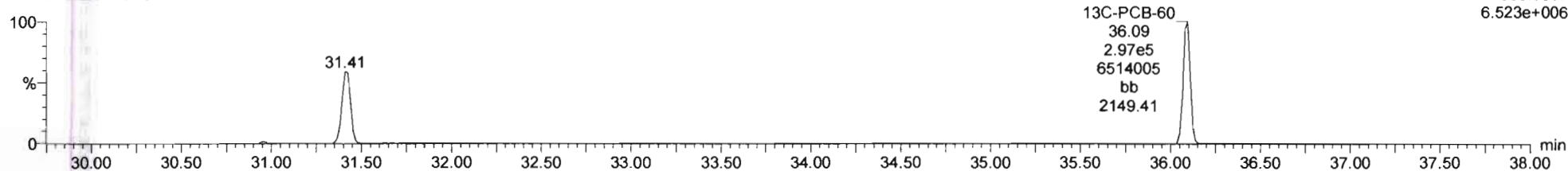
191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

F3:Voltage SIR,EI+
301.9626
4.888e+006



191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

F3:Voltage SIR,EI+
303.9597
6.523e+006



Dataset: U:\WG11.PRO\Results\191122K3\191122K3-13.qld

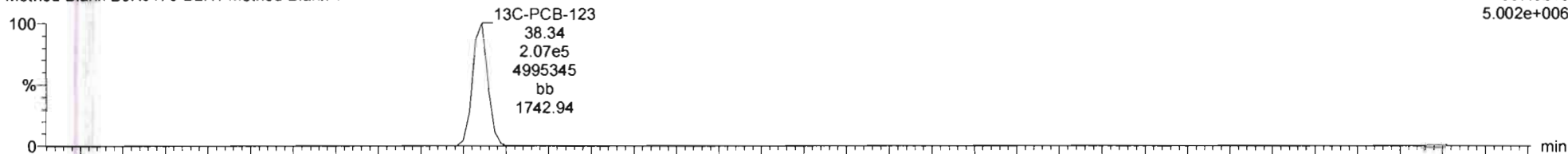
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Name: 191122K3_13, Date: 23-Nov-2019, Time: 01:54:28, ID: B9K0170-BLK1 Method Blank 1, Description: Method Blank

13C-PCB-123

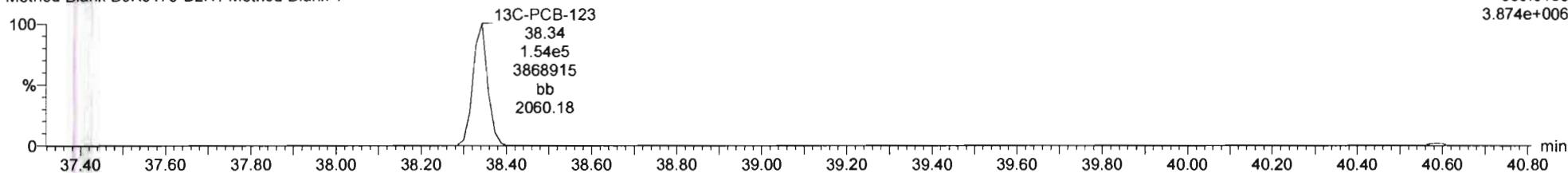
191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

F4:Voltage SIR,EI+
337.9210
5.002e+006



191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

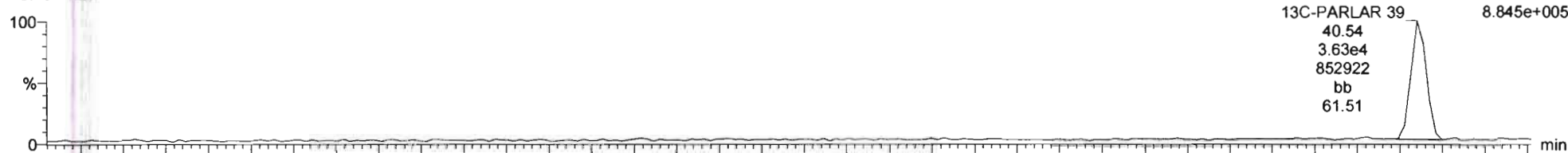
F4:Voltage SIR,EI+
339.9180
3.874e+006



13C-PARLAR 39

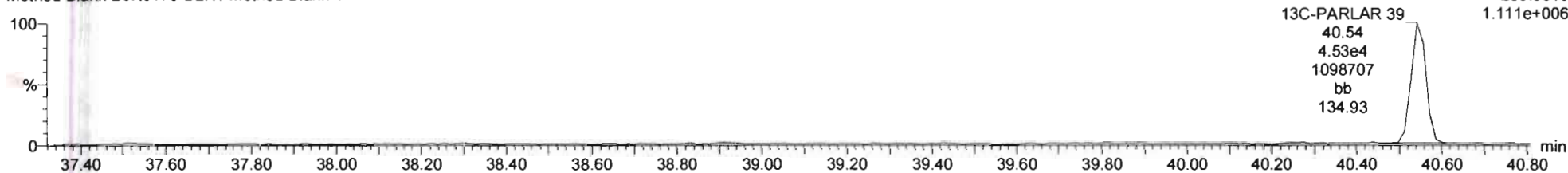
191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

F4:Voltage SIR,EI+
251.9648
8.845e+005



191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

F4:Voltage SIR,EI+
253.9619
1.111e+006



Dataset: U:\VG11.PRO\Results\191122K3\191122K3-13.qld

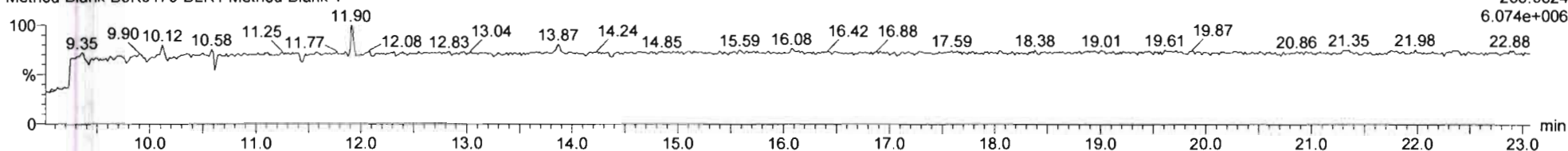
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Printed: Tuesday, November 26, 2019 07:59:16 Pacific Standard Time

Name: 191122K3_13, Date: 23-Nov-2019, Time: 01:54:28, ID: B9K0170-BLK1 Method Blank 1, Description: Method Blank

PFK1

191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

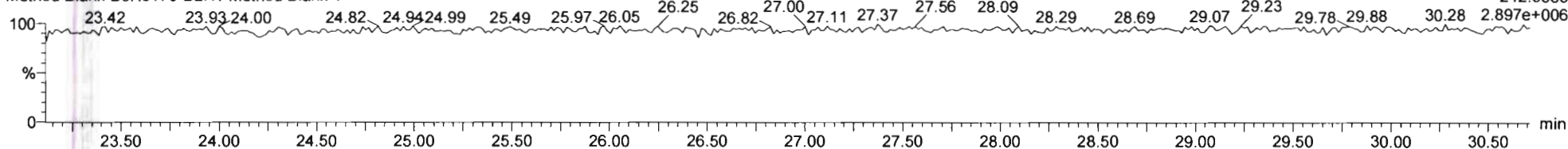
F1:Voltage SIR,EI+
268.9824
6.074e+006



PFK2

191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

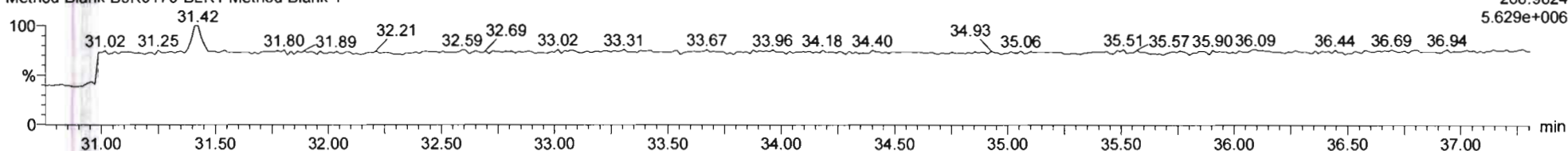
F2:Voltage SIR,EI+
242.9856
2.897e+006



PFK3

191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

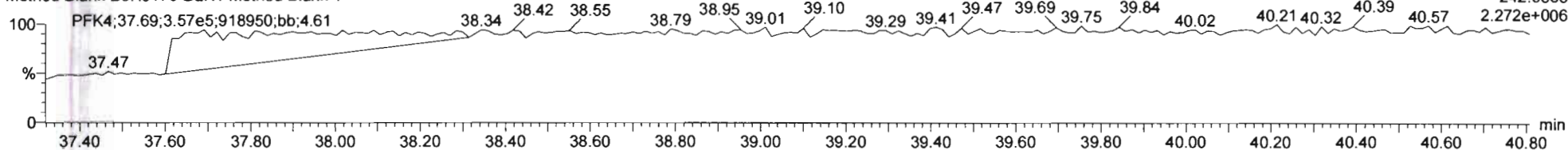
F3:Voltage SIR,EI+
268.9824
5.629e+006



PFK4

191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1

F4:Voltage SIR,EI+
242.9856
2.272e+006



Dataset: U:\VG11.PRO\Results\191122K3\191122K3-13.qld

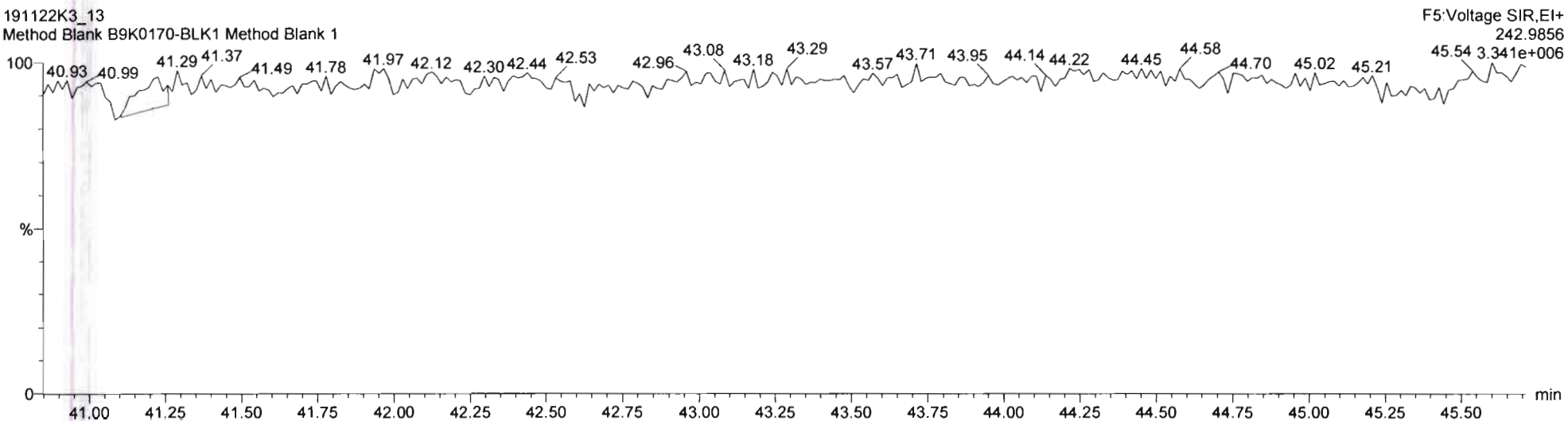
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Printed: Tuesday, November 26, 2019 07:59:16 Pacific Standard Time

Name: 191122K3_13, Date: 23-Nov-2019, Time: 01:54:28, ID: B9K0170-BLK1 Method Blank 1, Description: Method Blank

PFK5

191122K3_13
Method Blank B9K0170-BLK1 Method Blank 1



Dataset: U:\VG11.PRO\Results\191122K3\191122K3-10.qld

Last Altered: Tuesday, November 26, 2019 08:14:23 Pacific Standard Time

Printed: Tuesday, November 26, 2019 08:14:44 Pacific Standard Time

GPO 11/26/19

C7 02/04/2020

Method: U:\VG11.PRO\MethDB\1699rrt-11-21-19.mdb 21 Nov 2019 11:39:32

Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-11-22-19-LIMITEDB.cdb 23 Nov 2019 13:11:31

Name: 191122K3_10, Date: 22-Nov-2019, Time: 23:25:35, ID: B9K0170-BS1 OPR 1, Description: OPR

#	Name	Resp	IS Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	RRT Fail	Conc.	%Rec	DL	EMPC
1	2 Hexachlorobenzene	4.25e5	4.35e5	1.23	NO	0.874	1.000	22.83	22.83	1.001	1.001	NO	1120		0.243	1120
2	3 Alpha-BHC	2.33e5	2.81e5	2.11	NO	0.760	1.000	23.40	23.37	1.001	1.002	NO	1090		2.71	1090
3	4 Lindane (gamma-BHC)	1.79e5	2.16e5	2.12	NO	0.744	1.000	26.65	26.65	1.001	1.001	NO	1110		4.42	1110
4	5 Beta-BHC	1.65e5	1.71e5	2.14	NO	0.896	1.000	28.71	28.74	1.001	1.000	NO	1070		3.66	1070
5	6 Delta-BHC	1.81e5	1.96e5	2.09	NO	0.837	1.000	30.41	30.42	1.001	1.001	NO	1100		3.37	1100
6	7 Heptachlor	1.12e5	1.04e5	1.14	NO	0.968	1.000	28.85	28.85	1.001	1.001	NO	1110		1.63	1110
7	9 Aldrin	1.61e5	1.48e5	1.62	NO	1.02	1.000	30.99	30.99	1.001	1.001	NO	1070		1.42	1070
8	10 Oxychlorane	3.88e4	3.68e4	1.61	NO	0.992	1.000	33.58	33.58	1.001	1.001	NO	1060		5.14	1060
9	11 cis-Heptachlor Epoxide	5.27e4	4.66e4	1.64	NO	1.00	1.000	34.38	34.39	1.001	1.001	NO	1130		4.00	1130
10	12 trans-Heptachlor Epox...	1.42e4	4.66e4	1.44	NO	0.255	1.000	34.87	34.87	1.015	1.015	NO	1190		15.7	1190
11	13 trans-Chlordane (gam...	4.03e4	3.59e4	1.60	NO	1.08	1.000	35.28	35.29	1.001	1.001	NO	1040		4.63	1040
12	14 trans-Nonachlor	4.30e4	4.07e4	1.45	NO	1.00	1.000	35.47	35.48	1.001	1.001	NO	1050		4.69	1050
13	15 cis-Chlordane	4.40e4	4.07e4	1.58	NO	0.981	1.000	35.96	35.96	1.014	1.014	NO	1100		4.79	1100
14	16 Endosulfan I (alpha)	3.08e4	2.70e4	1.60	NO	1.11	1.000	36.07	36.06	1.000	1.001	NO	1030		5.82	1030
15	18 2,4'-DDE	9.18e5	9.90e5	1.31	NO	0.854	1.000	35.94	35.95	1.000	1.000	NO	1090		1.88	1090
16	19 4,4'-DDE	6.80e5	7.14e5	1.35	NO	0.873	1.000	37.03	37.03	1.000	1.000	NO	1090		2.43	1090
17	20 Dieldrin	1.00e5	9.44e4	1.57	NO	0.957	1.000	37.52	37.53	1.001	1.000	NO	1110		3.79	1110
18	21 Endrin	5.89e4	6.03e4	1.62	NO	0.933	1.000	38.91	38.94	1.001	1.000	NO	1050		5.74	1050
19	22 cis-Nonachlor	5.08e4	4.88e4	1.55	NO	0.956	1.000	39.22	39.22	1.000	1.000	NO	1090		6.72	1090
20	23 Endosulfan II (beta)	1.71e4	1.58e4	1.55	NO	1.06	1.000	39.93	39.95	1.000	1.000	NO	1020		18.7	1020
21	24 2,4'-DDD	8.20e5	8.20e5	1.61	NO	0.915	1.000	38.15	38.17	1.000	1.000	NO	1090		3.77	1090
22	25 2,4'-DDT	5.42e5	5.13e5	1.56	NO	0.921	1.000	39.30	39.29	1.000	1.000	NO	1150		6.08	1150
23	26 4,4'-DDD	7.54e5	7.10e5	1.60	NO	1.00	1.000	39.43	39.43	1.000	1.000	NO	1060		3.77	1060
24	27 4,4'-DDT	4.48e5	4.30e5	1.62	NO	0.986	1.000	40.50	40.50	1.000	1.000	NO	1060		6.20	1060
25	28 Endosulfan Sulfate	2.00e4	2.05e4	1.57	NO	0.928	1.000	41.67	41.68	1.000	1.000	NO	1050		14.9	1050
26	29 4,4'-Methoxychlor	4.54e5	3.62e6	6.02	NO	1.14	1.000	43.53	43.54	1.000	1.000	NO	1100		4.09	1100
27	30 Mirex	1.84e5	1.75e5	1.53	NO	0.932	1.000	44.10	44.09	1.000	1.000	NO	1130		5.24	1130
28	31 Endrin Aldehyde	3.51e4	3.33e5	0.64	NO	0.887	1.000	41.07	41.09	1.001	1.000	NO	1190		14.0	1190
29	32 Endrin Ketone	2.48e4	2.73e5	0.64	NO	0.911	1.000	44.22	44.23	1.000	1.000	NO	996		17.5	996
30	34 13C6-Hexachlorobenz...	4.35e5	1.31e6	1.27	NO	0.691	1.000	22.82	22.81	0.873	0.874	NO	479	47.9	0.146	

Dataset: U:\VG11.PRO\Results\191122K3\191122K3-10.qld

Last Altered: Tuesday, November 26, 2019 08:14:23 Pacific Standard Time

Printed: Tuesday, November 26, 2019 08:14:44 Pacific Standard Time

Name: 191122K3_10, Date: 22-Nov-2019, Time: 23:25:35, ID: B9K0170-BS1 OPR 1, Description: OPR

	# Name	Resp	IS Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	RRT Fail	Conc.	%Rec	DL	EMPC
31	35 13C6-Alpha-BHC	2.81e5	1.31e6	0.77	NO	0.246	1.000	23.37	23.35	0.894	0.895	NO	872	87.2	3.67	
32	36 13C6-Lindane (gamma)	2.16e5	1.31e6	0.80	NO	0.189	1.000	26.63	26.62	1.019	1.020	NO	871	87.1	4.77	
33	37 13C6-Beta-BHC	1.71e5	1.31e6	0.79	NO	0.141	1.000	28.68	28.70	1.099	1.098	NO	928	92.8	6.41	
34	38 13C6-Delta-BHC	1.96e5	1.31e6	0.79	NO	0.164	1.000	30.38	30.39	1.164	1.163	NO	906	90.6	5.48	
35	39 13C10-Heptachlor	1.04e5	1.31e6	1.26	NO	0.0770	1.000	28.81	28.82	1.103	1.103	NO	1030	103	2.45	
36	40 13C12-Aldrin	1.48e5	1.31e6	1.60	NO	0.122	1.000	30.93	30.96	1.185	1.184	NO	925	92.5	3.78	
37	41 13C10-Oxychlorane	3.68e4	1.31e6	1.59	NO	0.0283	1.000	33.53	33.56	1.285	1.284	NO	992	99.2	16.3	
38	42 13C10-cis-Heptachlor ...	4.66e4	1.31e6	1.64	NO	0.0366	1.000	34.32	34.36	1.315	1.314	NO	969	96.9	12.6	
39	43 13C10-trans-Chlordan...	3.59e4	1.31e6	1.67	NO	0.0292	1.000	35.23	35.26	1.350	1.349	NO	937	93.7	15.8	
40	44 13C10-trans-Nonachlor	4.07e4	1.31e6	1.66	NO	0.0333	1.000	35.42	35.45	1.357	1.356	NO	930	93.0	13.8	
41	45 13C9-Endosulfan I (al...	2.70e4	1.31e6	1.49	NO	0.0212	1.000	36.00	36.05	1.380	1.378	NO	968	96.8	21.7	
42	46 13C12-2,4'-DDE	9.90e5	1.31e6	1.60	NO	0.763	1.000	35.94	35.93	0.996	0.996	NO	988	98.8	4.42	
43	47 13C12-4,4'-DDE	7.14e5	1.31e6	1.60	NO	0.552	1.000	37.00	37.01	1.026	1.026	NO	985	98.5	6.11	
44	48 13C12-Dieldrin	9.44e4	1.31e6	1.73	NO	0.0749	1.000	37.50	37.50	1.039	1.039	NO	959	95.9	6.46	
45	49 13C12-Endrin	6.03e4	1.31e6	1.63	NO	0.0351	1.000	38.90	38.91	1.078	1.078	NO	1310	131	13.8	
46	50 13C10-cis-Nonachlor	4.88e4	1.31e6	1.58	NO	0.0389	1.000	39.19	39.20	1.087	1.086	NO	955	95.5	12.4	
47	51 13C9-Endosulfan II	1.58e4	1.31e6	1.56	NO	0.0112	1.000	39.91	39.93	1.107	1.106	NO	1070	107	43.3	
48	52 13C12-2,4'-DDD	8.20e5	1.31e6	1.58	NO	0.588	1.000	38.10	38.15	1.461	1.459	NO	1060	106	4.32	
49	53 13C12-2,4'-DDT	5.13e5	1.31e6	1.62	NO	0.370	1.000	39.23	39.28	1.504	1.502	NO	1060	106	6.86	
50	54 13C12-4,4'-DDD	7.10e5	1.31e6	1.60	NO	0.473	1.000	39.35	39.41	1.509	1.507	NO	1140	114	5.37	
51	55 13C12-4,4'-DDT	4.30e5	1.31e6	1.60	NO	0.280	1.000	40.41	40.48	1.550	1.547	NO	1170	117	9.06	
52	56 13C9-Endosulfan Sulf...	2.05e4	1.31e6	1.49	NO	0.0173	1.000	41.64	41.67	1.155	1.154	NO	903	90.3	31.7	
53	57 13C12-Methoxychlor	3.62e6	1.31e6	21.77	NO	0.257	1.000	43.51	43.52	1.206	1.206	NO	10700	107	14.3	
54	58 13C10-Mirex	1.75e5	1.31e6	1.56	NO	0.164	1.000	44.06	44.07	1.222	1.221	NO	811	81.1	6.91	
55	59 13C12-Endrin Aldehyde	3.33e5	1.31e6	0.49	NO	0.0345	1.000	41.04	41.05	1.138	1.138	NO	7350	73.5	37.2	
56	60 13C12-Endrin Ketone	2.73e5	1.31e6	0.51	NO	0.0222	1.000	44.20	44.22	1.226	1.225	NO	9370	93.7	57.8	
57	62 13C-PCB-15	1.31e6	1.31e6	1.57	NO	1.00	1.000	26.18	26.12	1.000	1.000	NO	1000	100	0.921	

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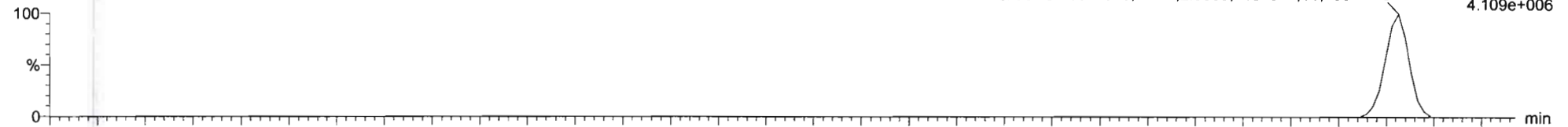
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Method: U:\VG11.PRO\MethDB\1699rrt-11-21-19.mdb 21 Nov 2019 11:39:32
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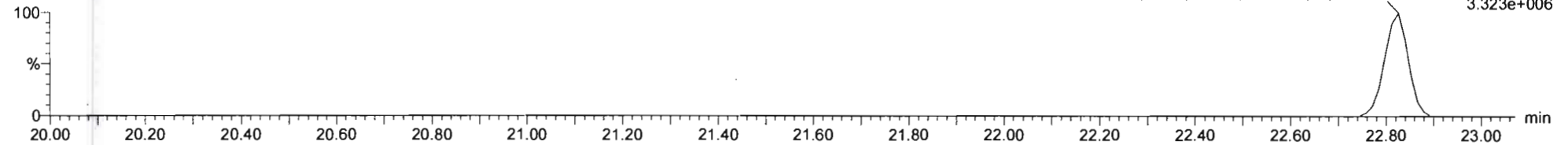
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Hexachlorobenzene

191122K3_10
OPR B9K0170-BS1 OPR 1

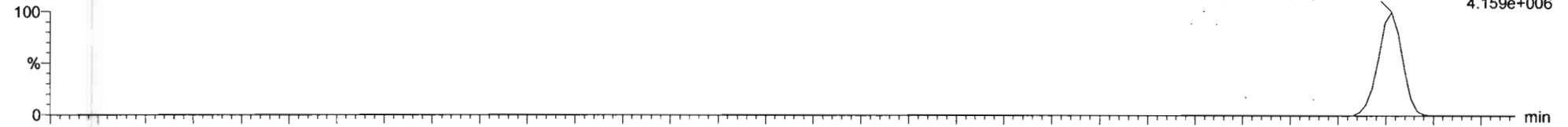


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OPR B9K0170-BS1 OPR 1

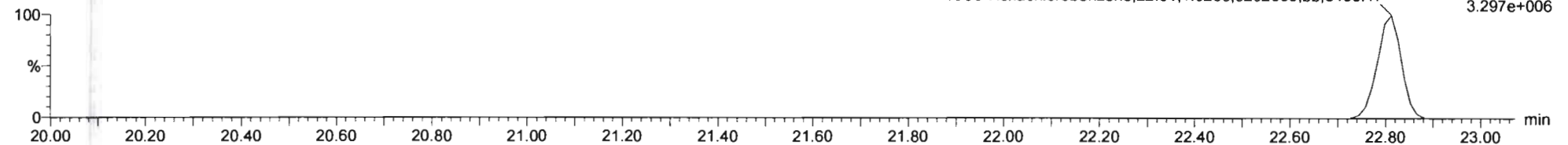


13C6-Hexachlorobenzene

191122K3_10
OPR B9K0170-BS1 OPR 1



191122K3_10
OPR B9K0170-BS1 OPR 1



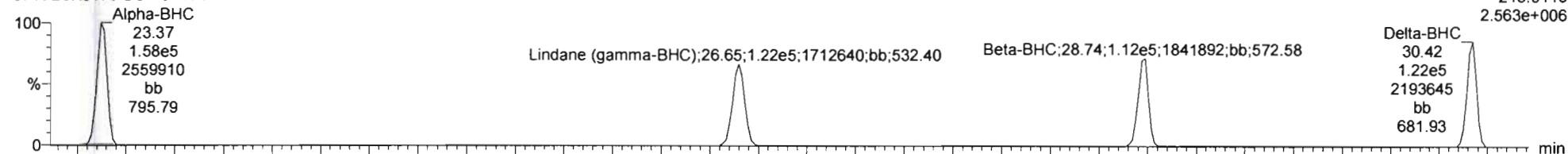
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Printed: Tuesday, November 26, 2019 08:10:16 Pacific Standard Time

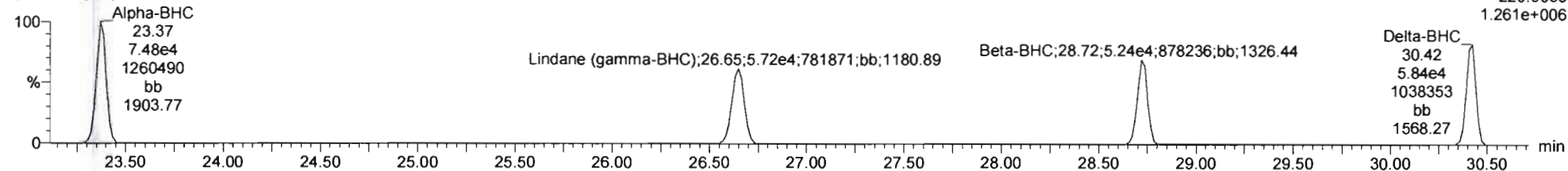
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BHC Totals

191122K3_10
OPR B9K0170-BS1 OPR 1

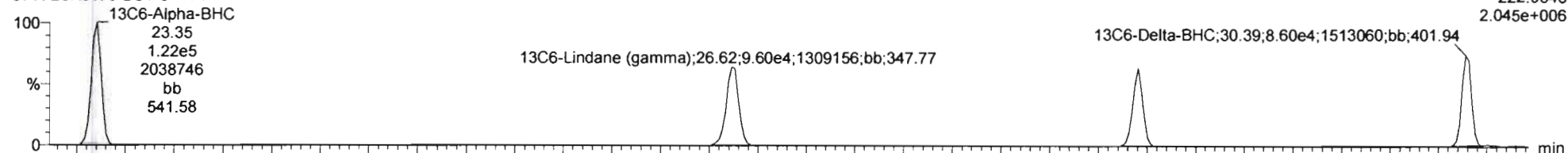


191122K3_10
OPR B9K0170-BS1 OPR 1

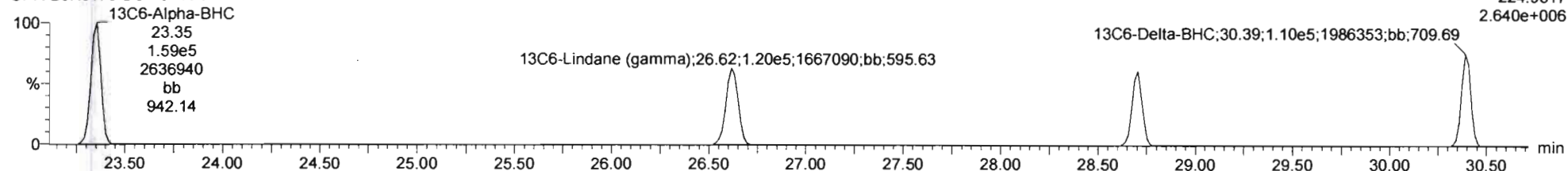


BHC-isotopes

191122K3_10
OPR B9K0170-BS1 OPR 1



191122K3_10
OPR B9K0170-BS1 OPR 1



Dataset: U:\VG11.PRO\Results\191122K3\191122K3-10.qld

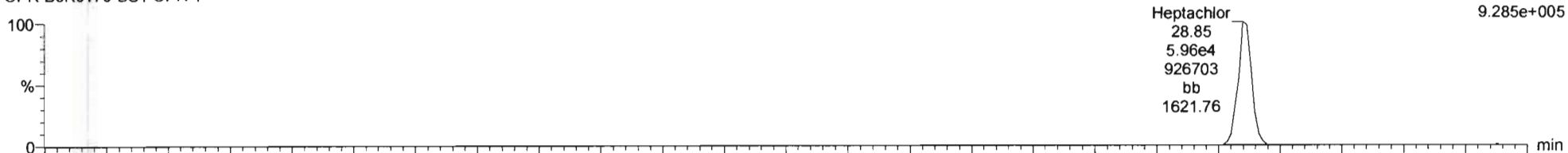
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Printed: Tuesday, November 26, 2019 08:10:16 Pacific Standard Time

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Heptachlor

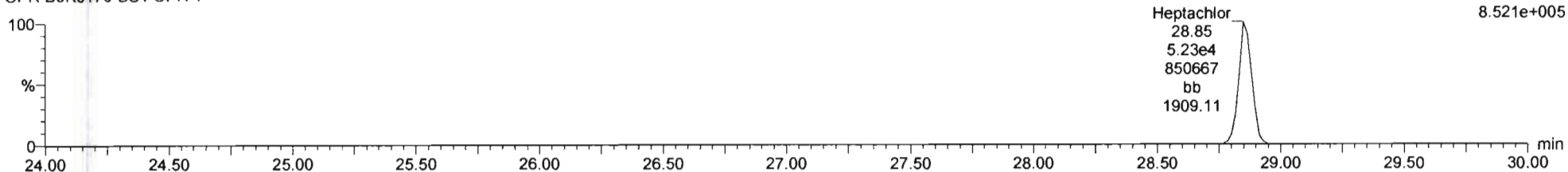
191122K3_10
OPR B9K0170-BS1 OPR 1

F2:Voltage SIR,EI+
271.8102
9.285e+005



191122K3_10
OPR B9K0170-BS1 OPR 1

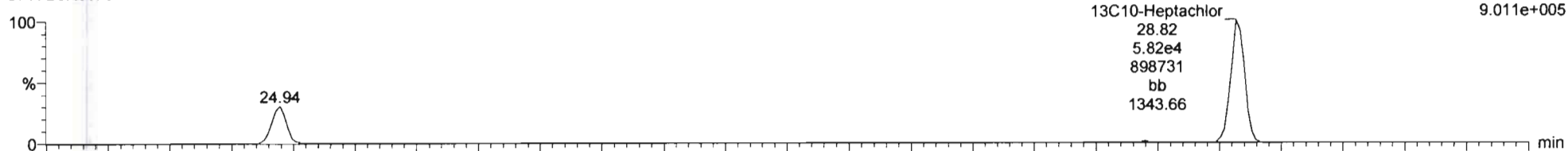
F2:Voltage SIR,EI+
273.8072
8.521e+005



13C10-Heptachlor

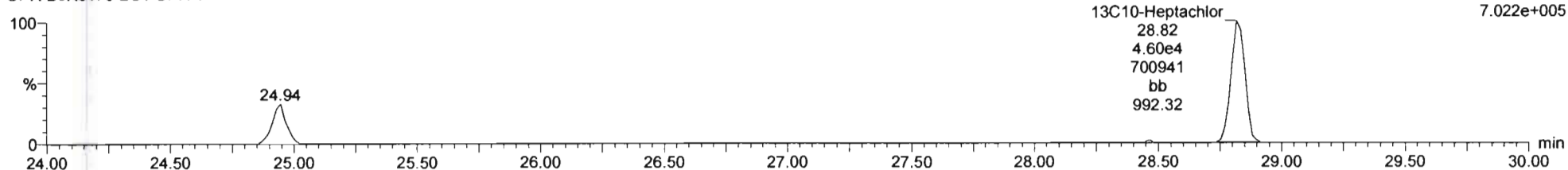
191122K3_10
OPR B9K0170-BS1 OPR 1

F2:Voltage SIR,EI+
276.8269
9.011e+005



191122K3_10
OPR B9K0170-BS1 OPR 1

F2:Voltage SIR,EI+
278.8240
7.022e+005



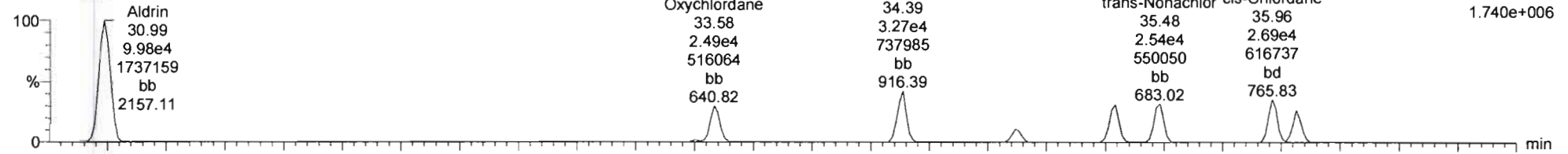
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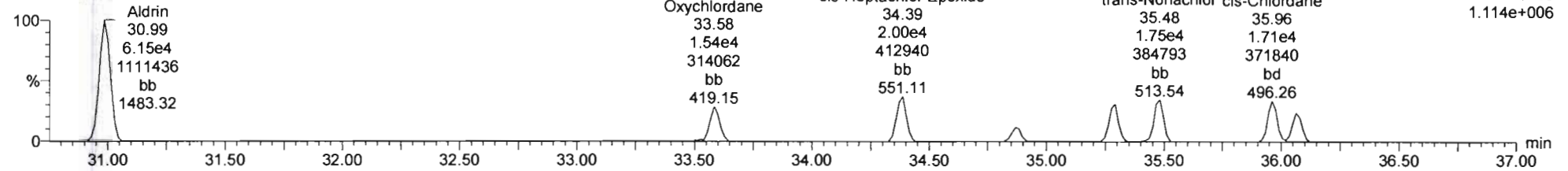
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Aldrin-EI

191122K3_10
OPR B9K0170-BS1 OPR 1

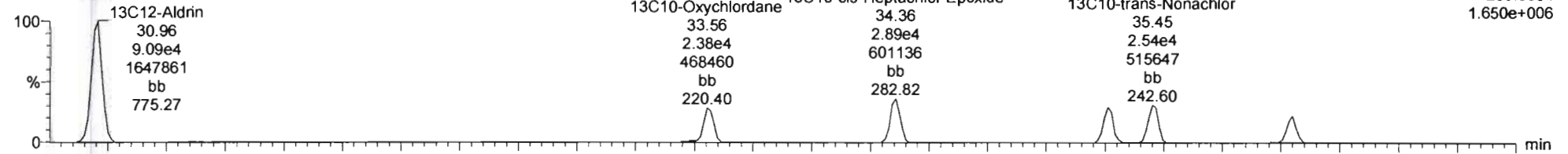


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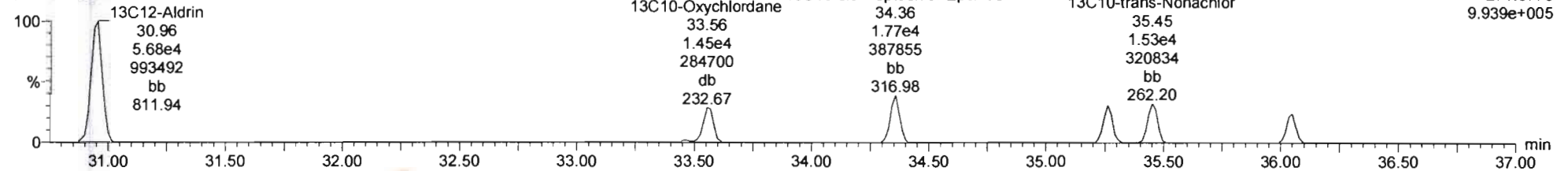


Aldrin-EI-isotopes

191122K3_10
OPR B9K0170-BS1 OPR 1



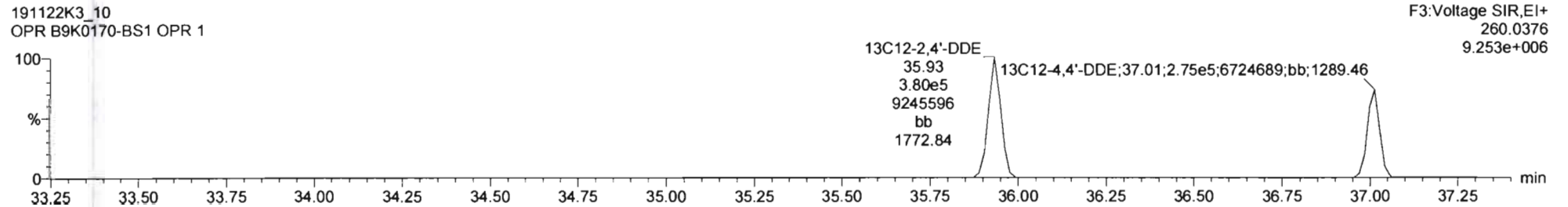
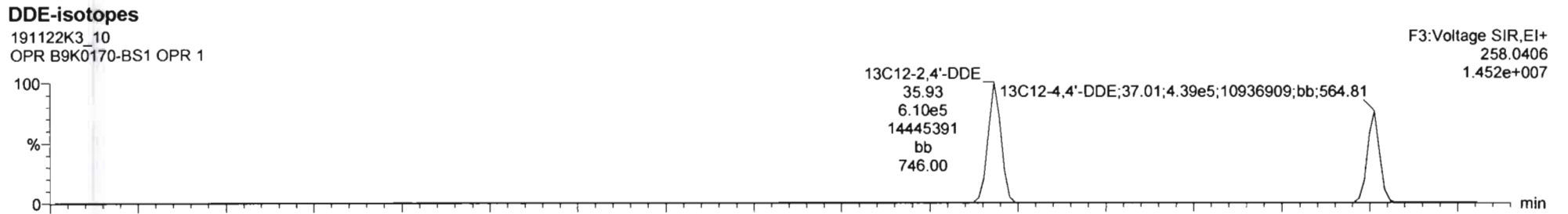
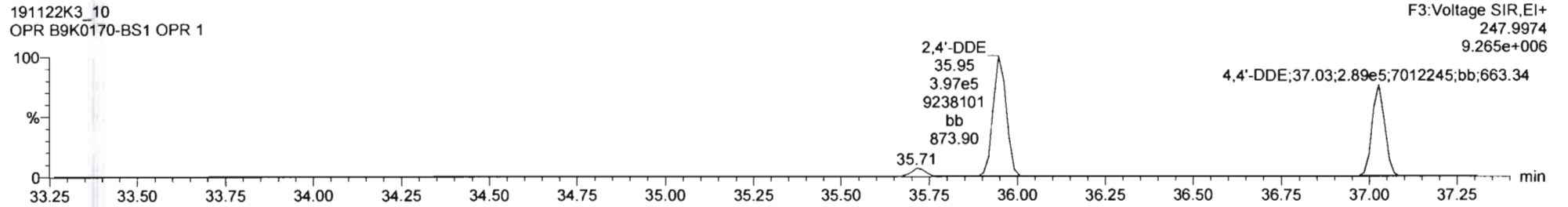
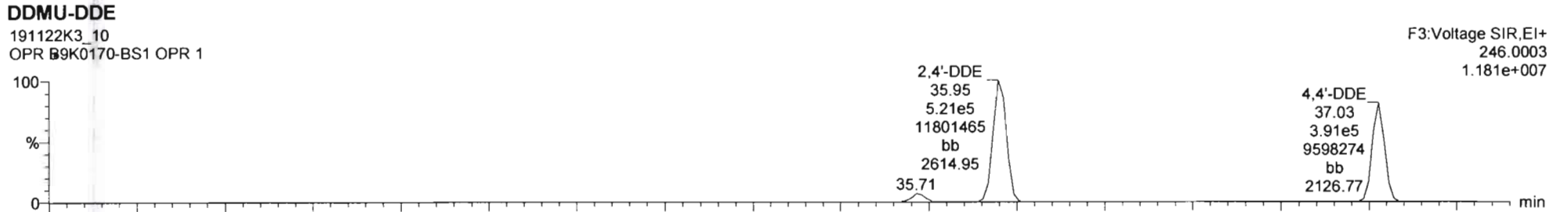
191122K3_10
OPR B9K0170-BS1 OPR 1



Dataset: U:\VG11.PRO\Results\191122K3\191122K3-10.qld

Last Altered: Monday, November 25, 2019 11:31:52 Pacific Standard Time
Printed: Tuesday, November 26, 2019 08:10:16 Pacific Standard Time

Name: 191122K3_10, Date: 22-Nov-2019, Time: 23:25:35, ID: B9K0170-BS1 OPR 1, Description: OPR



Dataset: U:\VG11.PRO\Results\191122K3\191122K3-10.qld

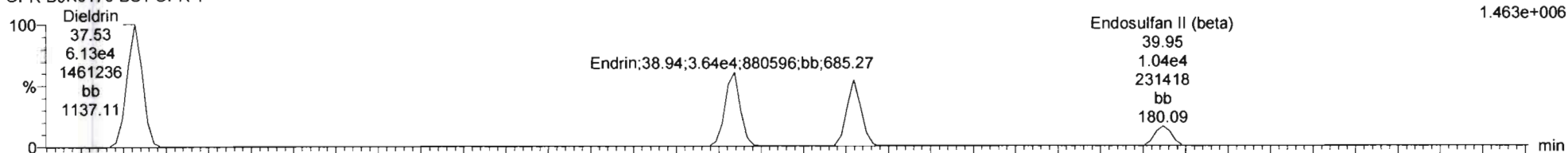
Last Altered: Monday, November 25, 2019 11:31:52 Pacific Standard Time
Printed: Tuesday, November 26, 2019 08:10:16 Pacific Standard Time

Name: 191122K3_10, Date: 22-Nov-2019, Time: 23:25:35, ID: B9K0170-BS1 OPR 1, Description: OPR

Dieldrin-EII

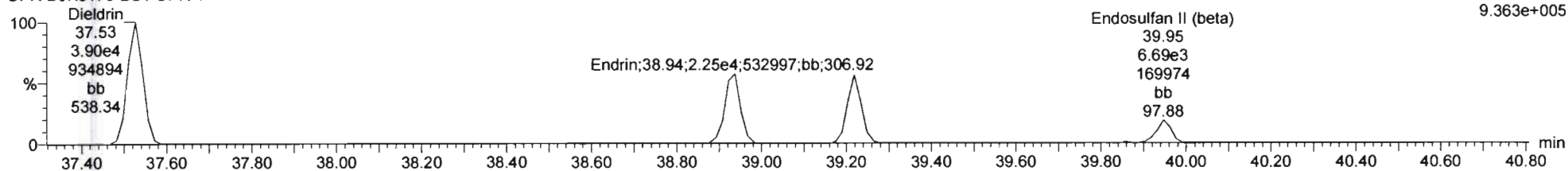
191122K3_10
OPR B9K0170-BS1 OPR 1

F4:Voltage SIR,EI+
262.8569
1.463e+006



191122K3_10
OPR B9K0170-BS1 OPR 1

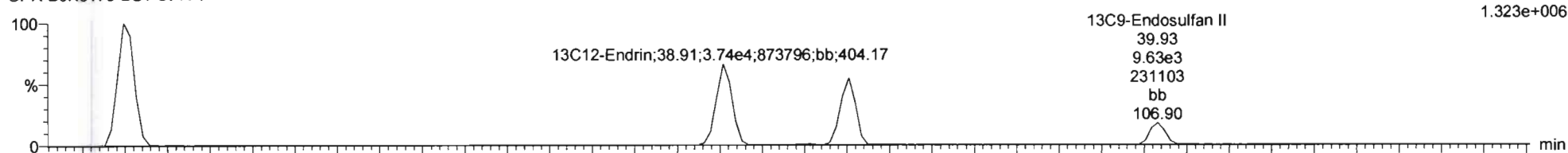
F4:Voltage SIR,EI+
264.8550
9.363e+005



Dieldrin-EII-isotopes

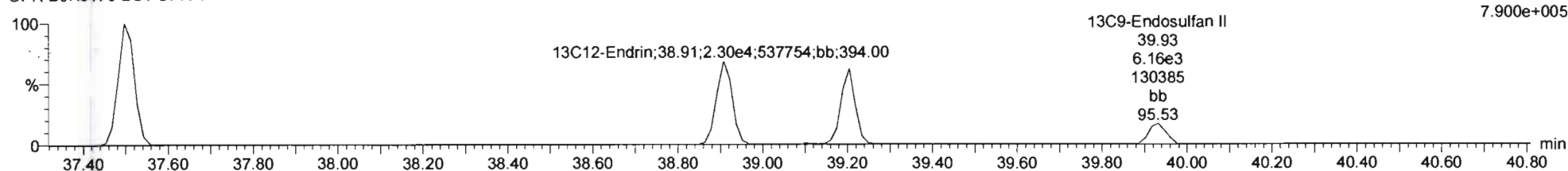
191122K3_10
OPR B9K0170-BS1 OPR 1

F4:Voltage SIR,EI+
269.8804
1.323e+006



191122K3_10
OPR B9K0170-BS1 OPR 1

F4:Voltage SIR,EI+
271.8775
7.900e+005



Dataset: U:\VG11.PRO\Results\191122K3\191122K3-10.qld

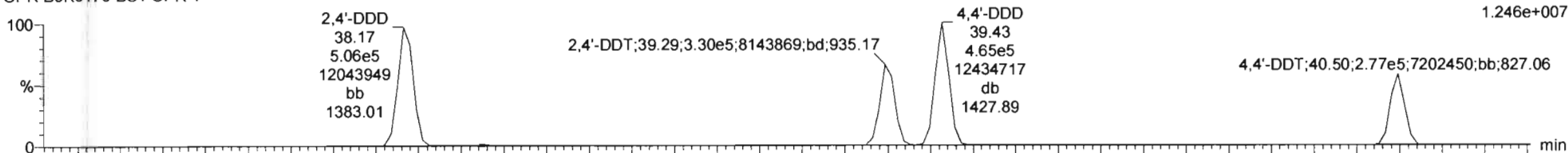
Last Altered: Monday, November 25, 2019 11:31:52 Pacific Standard Time
Printed: Tuesday, November 26, 2019 08:10:16 Pacific Standard Time

Name: 191122K3_10, Date: 22-Nov-2019, Time: 23:25:35, ID: B9K0170-BS1 OPR 1, Description: OPR

DDD-DDT

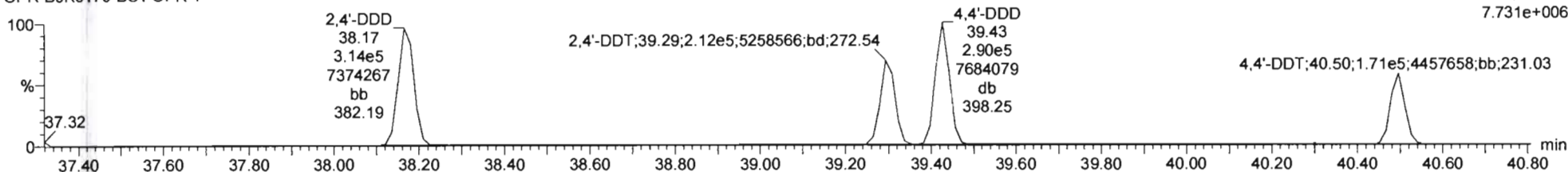
191122K3_10
OPR B9K0170-BS1 OPR 1

F4:Voltage SIR,EI+
235.0081
1.246e+007



191122K3_10
OPR B9K0170-BS1 OPR 1

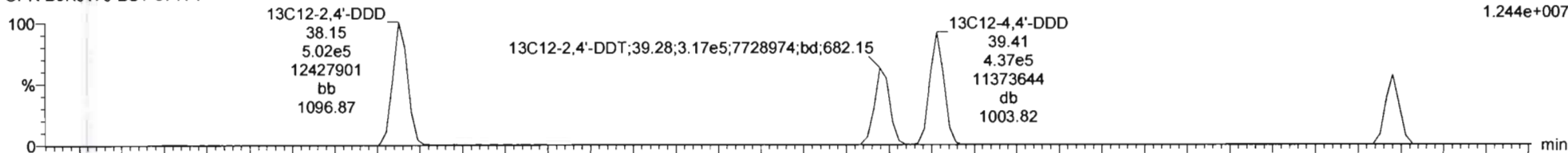
F4:Voltage SIR,EI+
237.0052
7.731e+006



DDD-DDT-isotopes

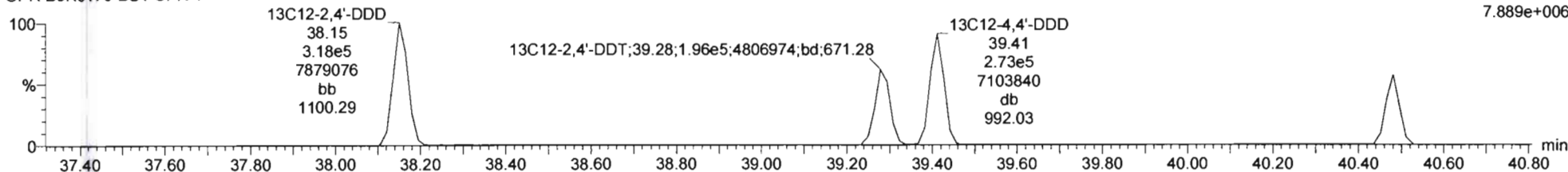
191122K3_10
OPR B9K0170-BS1 OPR 1

F4:Voltage SIR,EI+
247.0484
1.244e+007



191122K3_10
OPR B9K0170-BS1 OPR 1

F4:Voltage SIR,EI+
249.0454
7.889e+006



Dataset: U:\VG11.PRO\Results\191122K3\191122K3-10.qld

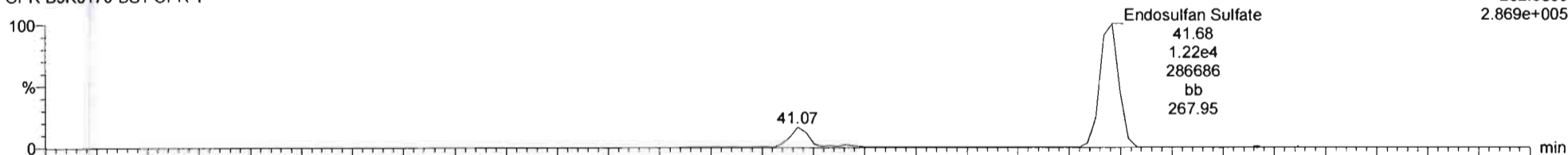
Last Altered: Monday, November 25, 2019 11:31:52 Pacific Standard Time
Printed: Tuesday, November 26, 2019 08:10:16 Pacific Standard Time

Name: 191122K3_10, Date: 22-Nov-2019, Time: 23:25:35, ID: B9K0170-BS1 OPR 1, Description: OPR

Endosulfan Sulfate

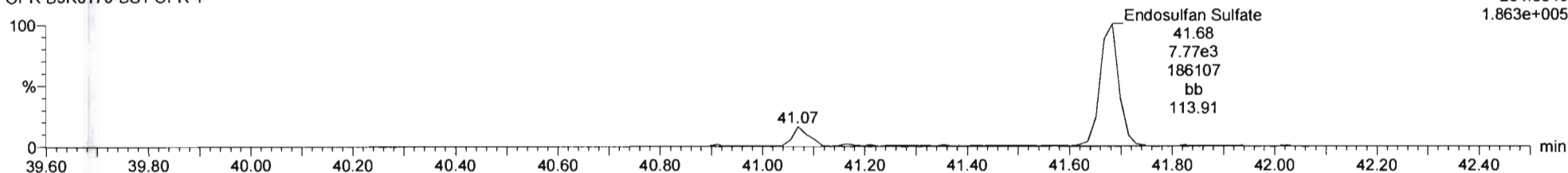
191122K3_10
OPR B9K0170-BS1 OPR 1

F5:Voltage SIR,EI+
262.8569
2.869e+005



191122K3_10
OPR B9K0170-BS1 OPR 1

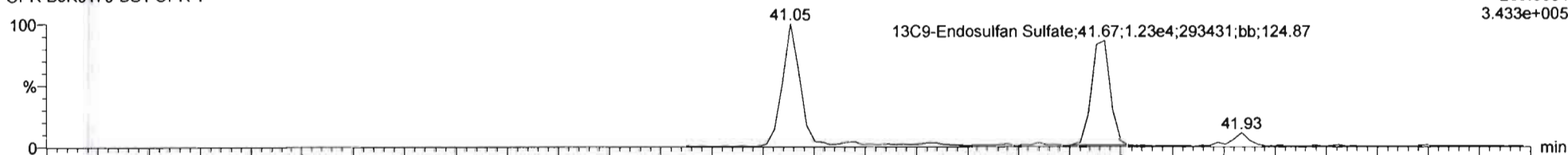
F5:Voltage SIR,EI+
264.8540
1.863e+005



¹³C9-Endosulfan Sulfate

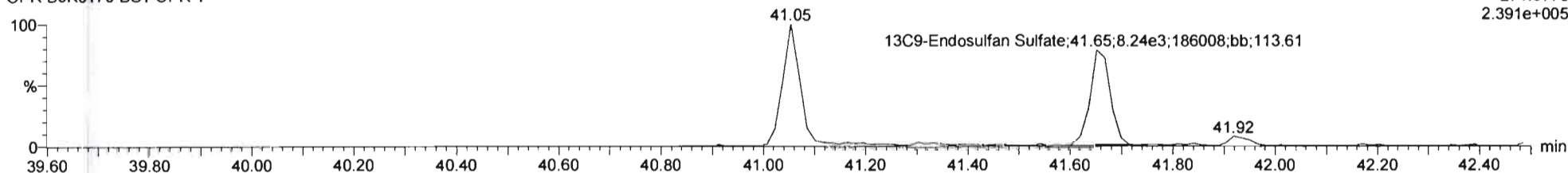
191122K3_10
OPR B9K0170-BS1 OPR 1

F5:Voltage SIR,EI+
269.8804
3.433e+005



191122K3_10
OPR B9K0170-BS1 OPR 1

F5:Voltage SIR,EI+
271.8775
2.391e+005



Dataset: U:\VG11.PRO\Results\191122K3\191122K3-10.qld

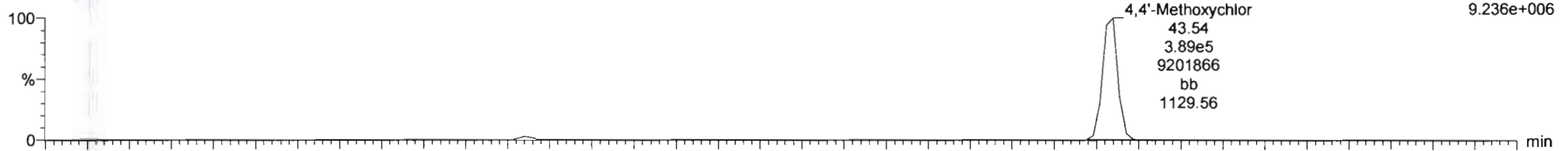
Last Altered: Monday, November 25, 2019 11:31:52 Pacific Standard Time
Printed: Tuesday, November 26, 2019 08:10:16 Pacific Standard Time

Name: 191122K3_10, Date: 22-Nov-2019, Time: 23:25:35, ID: B9K0170-BS1 OPR 1, Description: OPR

4,4'-Methoxychlor

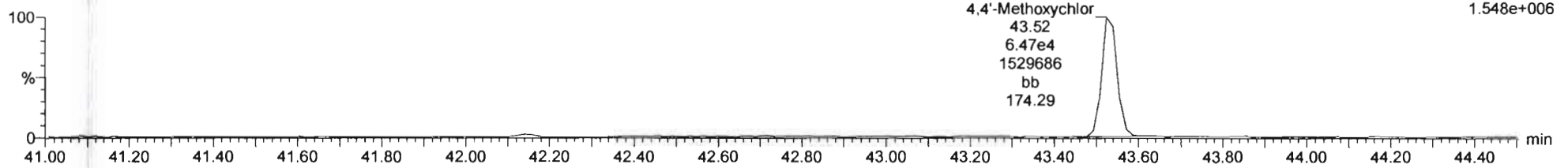
191122K3_10
OPR B9K0170-BS1 OPR 1

F5:Voltage SIR,EI+
227.1072
9.236e+006



191122K3_10
OPR B9K0170-BS1 OPR 1

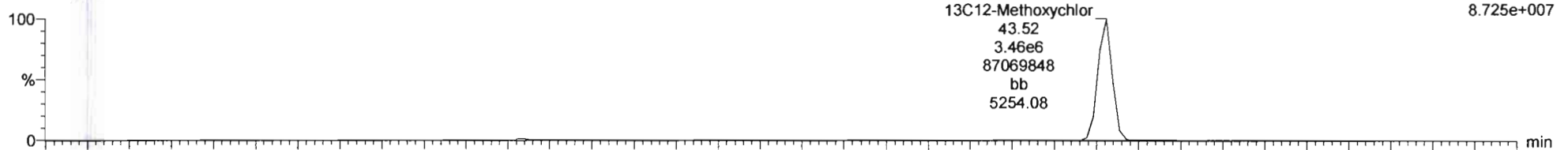
F5:Voltage SIR,EI+
228.1106
1.548e+006



13C12-Methoxychlor

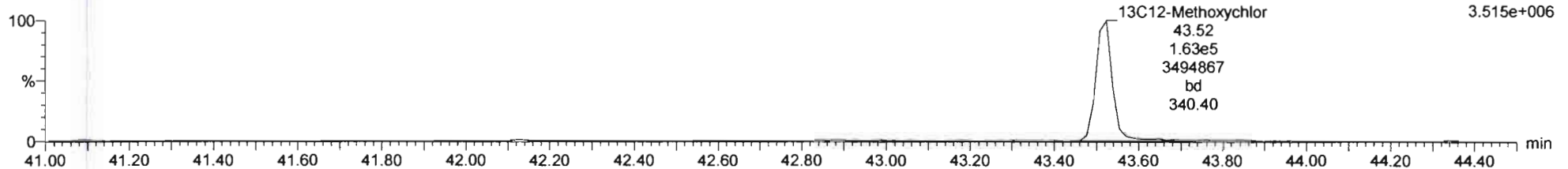
191122K3_10
OPR B9K0170-BS1 OPR 1

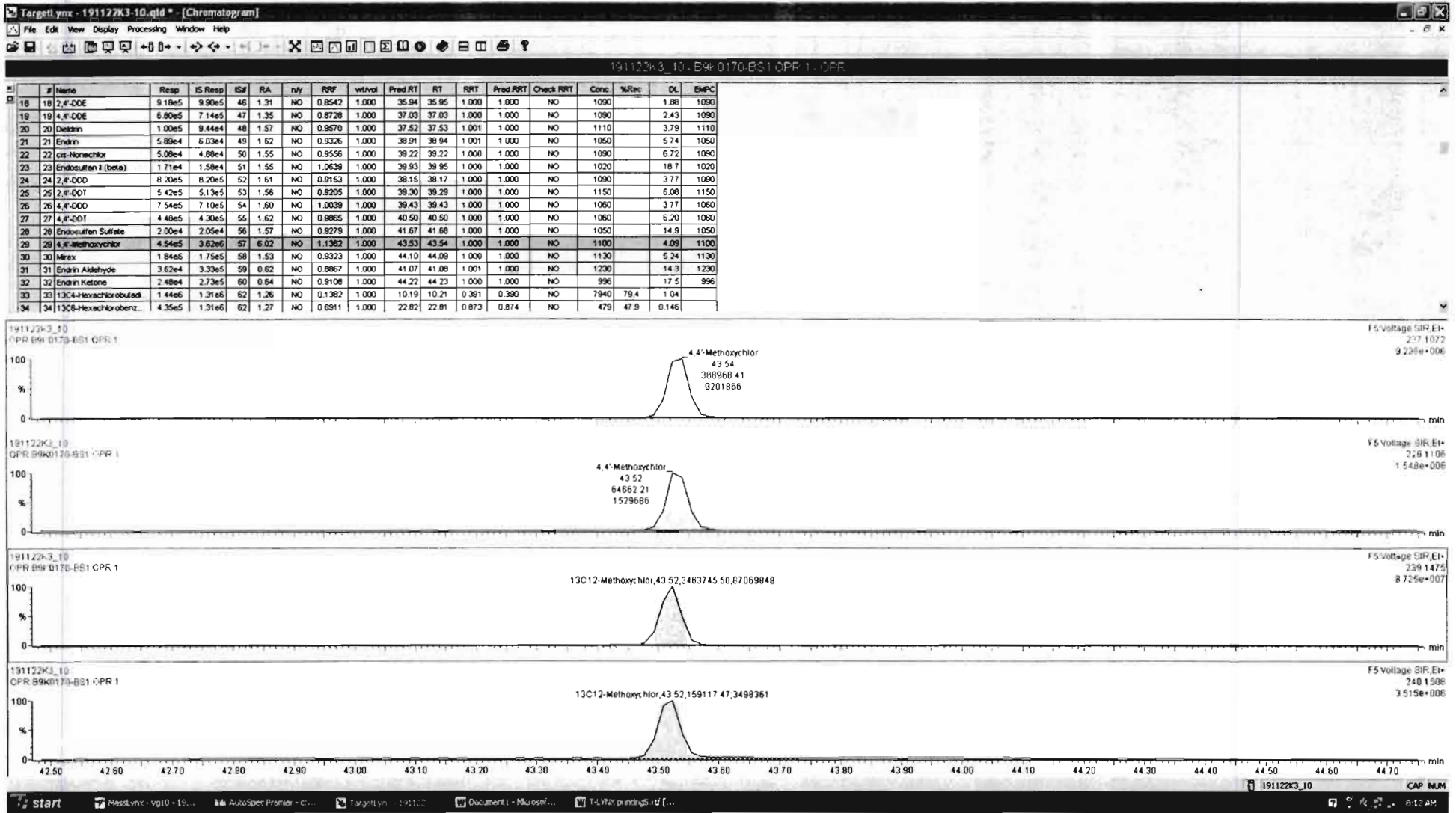
F5:Voltage SIR,EI+
239.1475
8.725e+007



191122K3_10
OPR B9K0170-BS1 OPR 1

F5:Voltage SIR,EI+
240.1508
3.515e+006





Dataset: U:\VG11.PRO\Results\191122K3\191122K3-10.qld

Last Altered: Monday, November 25, 2019 11:31:52 Pacific Standard Time

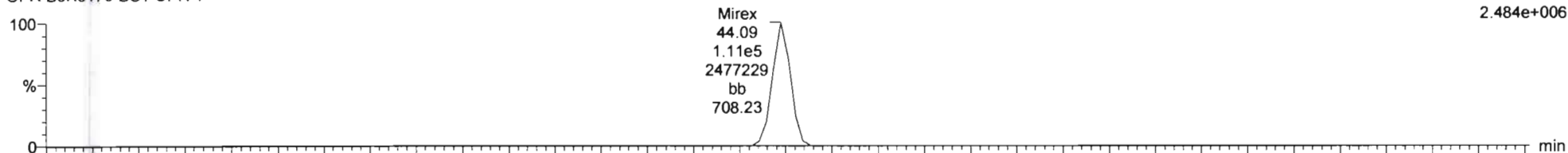
Printed: Tuesday, November 26, 2019 08:10:16 Pacific Standard Time

Name: 191122K3_10, Date: 22-Nov-2019, Time: 23:25:35, ID: B9K0170-BS1 OPR 1, Description: OPR

Mirex

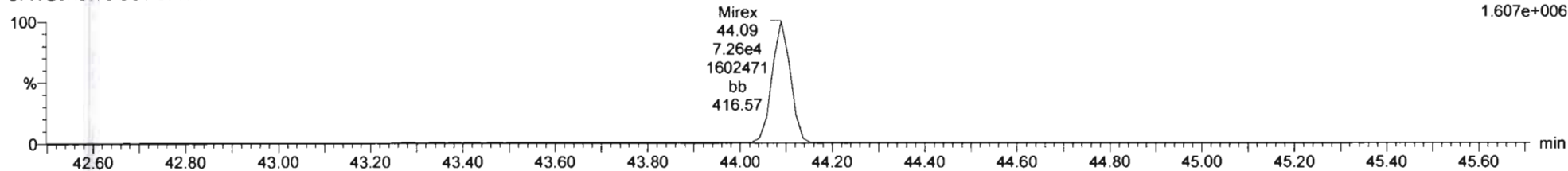
191122K3_10
OPR B9K0170-BS1 OPR 1

F5:Voltage SIR,EI+
236.8413
2.484e+006



191122K3_10
OPR B9K0170-BS1 OPR 1

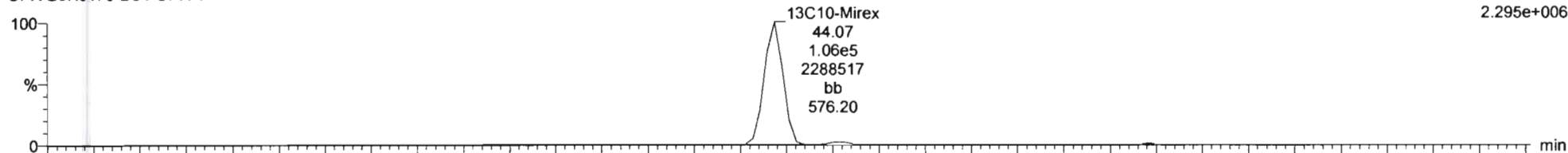
F5:Voltage SIR,EI+
238.8384
1.607e+006



13C10-Mirex

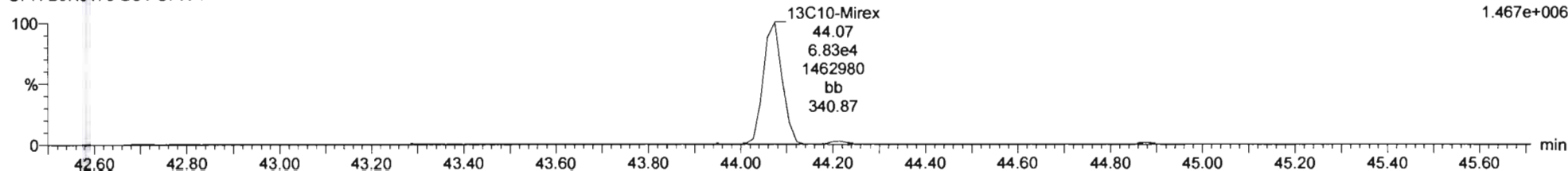
191122K3_10
OPR B9K0170-BS1 OPR 1

F5:Voltage SIR,EI+
241.8581
2.295e+006



191122K3_10
OPR B9K0170-BS1 OPR 1

F5:Voltage SIR,EI+
243.8551
1.467e+006



Dataset: U:\VG11.PRO\Results\191122K3\191122K3-10.qld

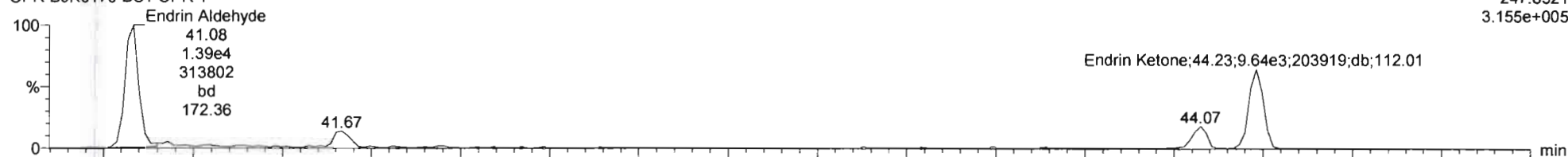
Last Altered: Monday, November 25, 2019 11:31:52 Pacific Standard Time
Printed: Tuesday, November 26, 2019 08:10:16 Pacific Standard Time

Name: 191122K3_10, Date: 22-Nov-2019, Time: 23:25:35, ID: B9K0170-BS1 OPR 1, Description: OPR

EA-EK

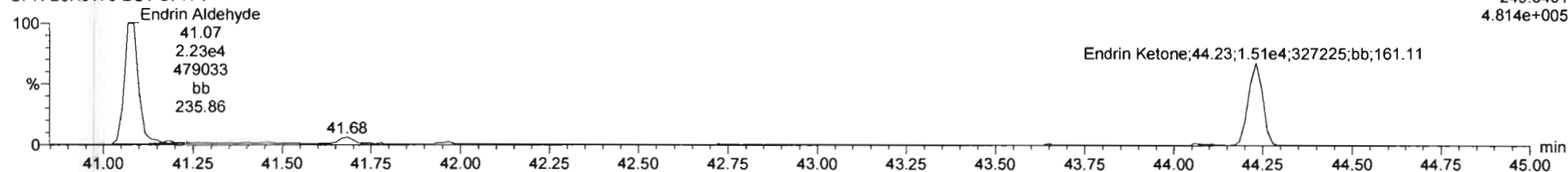
191122K3_10
OPR B9K0170-BS1 OPR 1

F5:Voltage SIR,EI+
247.8521
3.155e+005



191122K3_10
OPR B9K0170-BS1 OPR 1

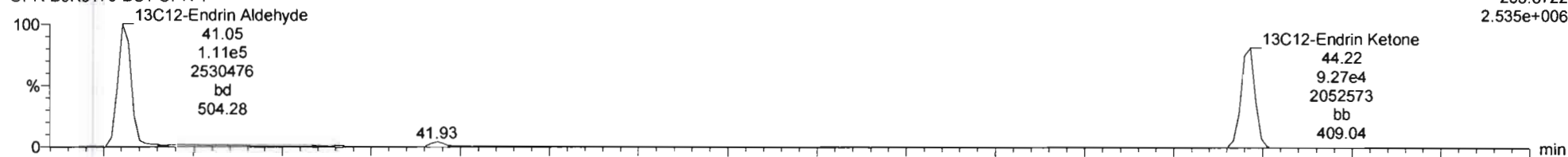
F5:Voltage SIR,EI+
249.8491
4.814e+005



EA-EK-isotopes

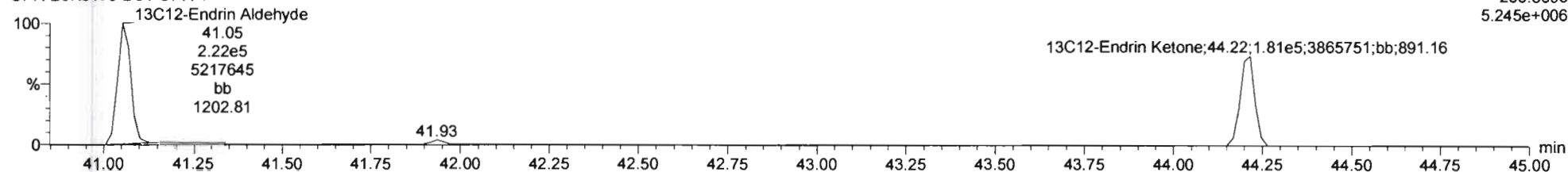
191122K3_10
OPR B9K0170-BS1 OPR 1

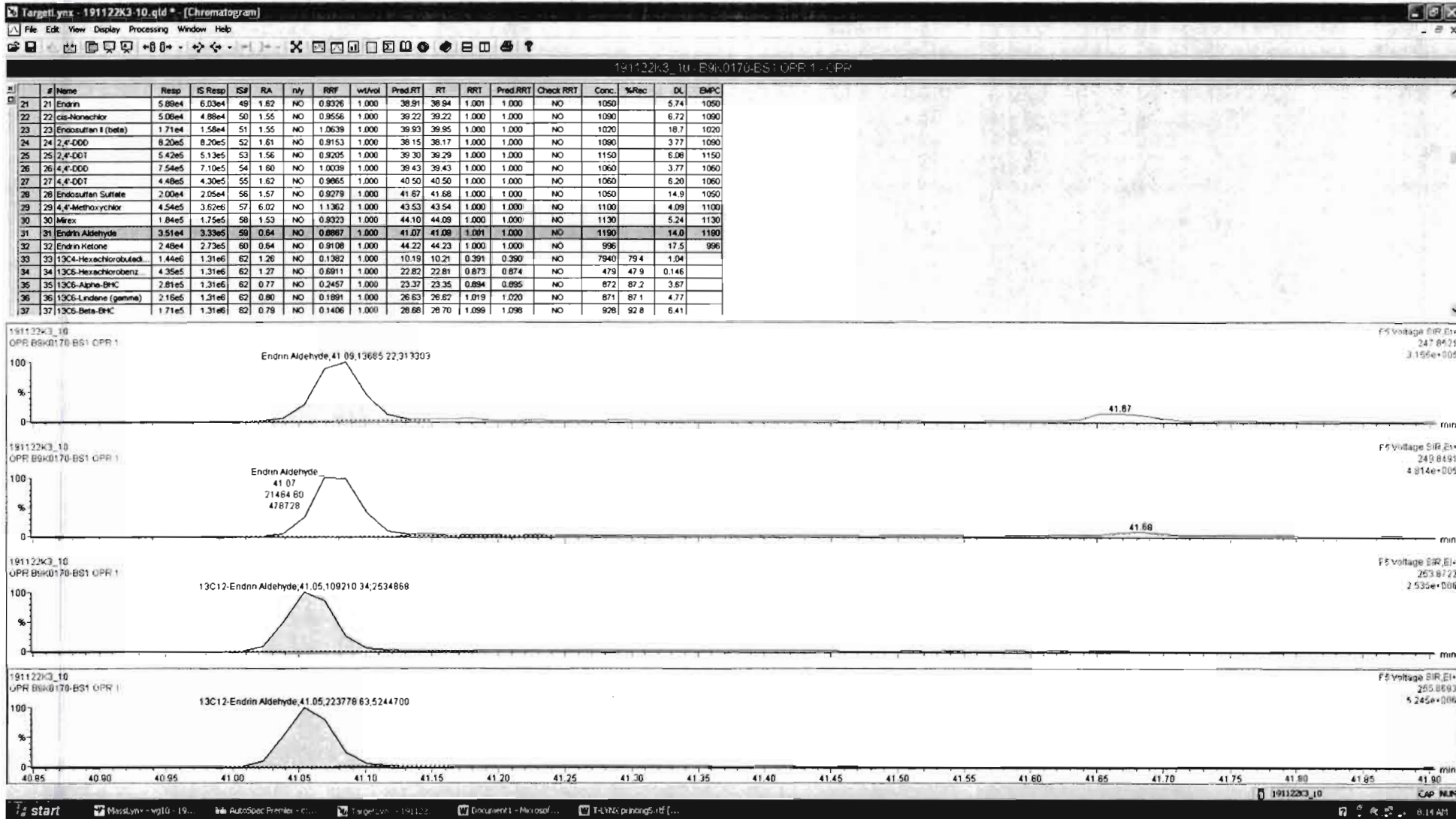
F5:Voltage SIR,EI+
253.8722
2.535e+006



191122K3_10
OPR B9K0170-BS1 OPR 1

F5:Voltage SIR,EI+
255.8693
5.245e+006





Dataset: U:\VG11.PRO\Results\191122K3\191122K3-10.qld

Last Altered: Monday, November 25, 2019 11:31:52 Pacific Standard Time

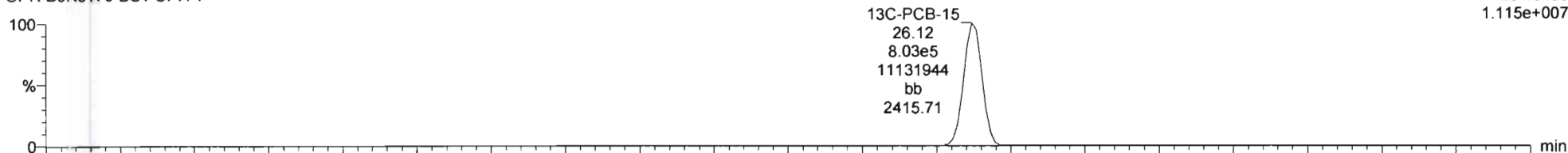
Printed: Tuesday, November 26, 2019 08:10:16 Pacific Standard Time

Name: 191122K3_10, Date: 22-Nov-2019, Time: 23:25:35, ID: B9K0170-BS1 OPR 1, Description: OPR

13C-PCB-15

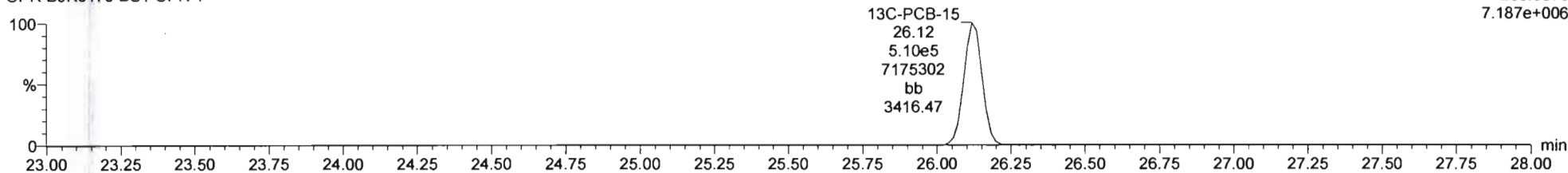
191122K3_10
OPR B9K0170-BS1 OPR 1

F2:Voltage SIR,EI+
234.0406
1.115e+007



191122K3_10
OPR B9K0170-BS1 OPR 1

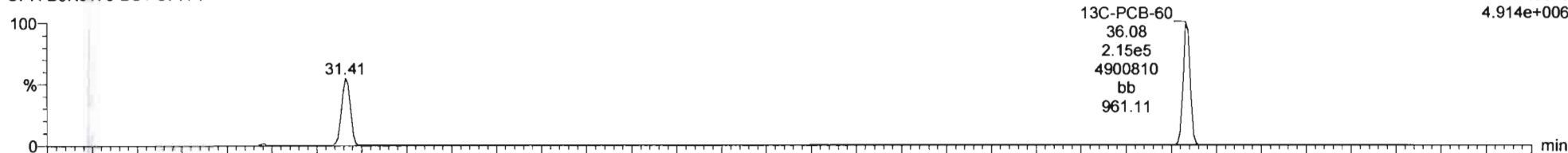
F2:Voltage SIR,EI+
236.0376
7.187e+006



13C-PCB-60

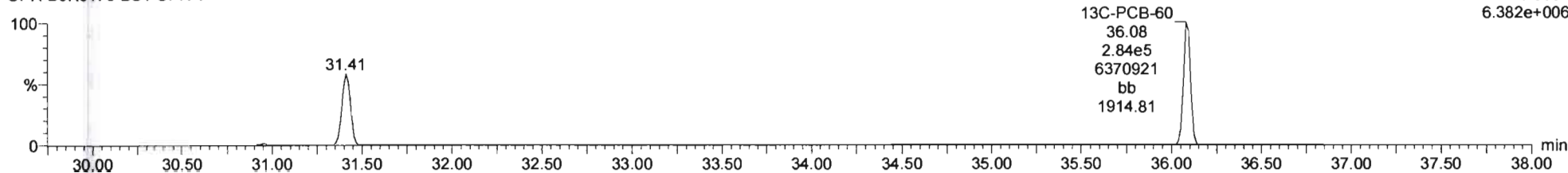
191122K3_10
OPR B9K0170-BS1 OPR 1

F3:Voltage SIR,EI+
301.9626
4.914e+006



191122K3_10
OPR B9K0170-BS1 OPR 1

F3:Voltage SIR,EI+
303.9597
6.382e+006



Dataset: U:\VG11.PRO\Results\191122K3\191122K3-10.qld

Last Altered: Monday, November 25, 2019 11:31:52 Pacific Standard Time

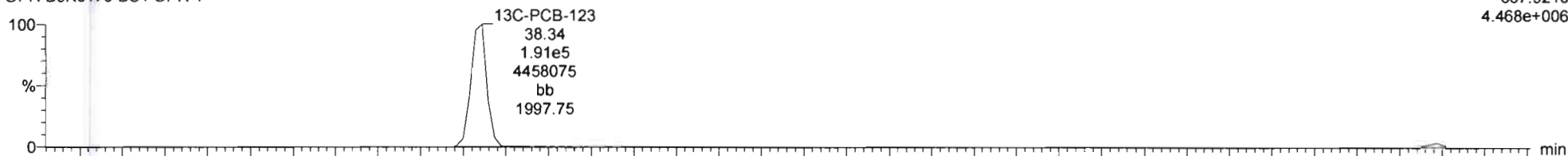
Printed: Tuesday, November 26, 2019 08:10:16 Pacific Standard Time

Name: 191122K3_10, Date: 22-Nov-2019, Time: 23:25:35, ID: B9K0170-BS1 OPR 1, Description: OPR

13C-PCB-123

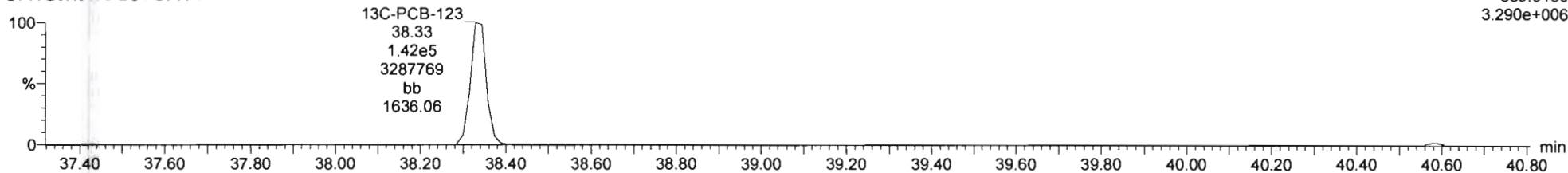
191122K3_10
OPR B9K0170-BS1 OPR 1

F4:Voltage SIR,EI+
337.9210
4.468e+006



191122K3_10
OPR B9K0170-BS1 OPR 1

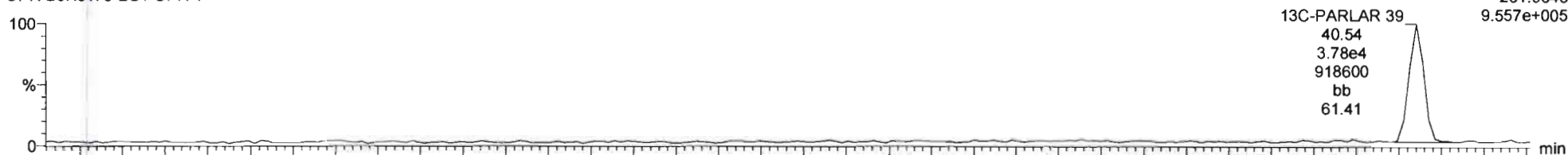
F4:Voltage SIR,EI+
339.9180
3.290e+006



13C-PARLAR 39

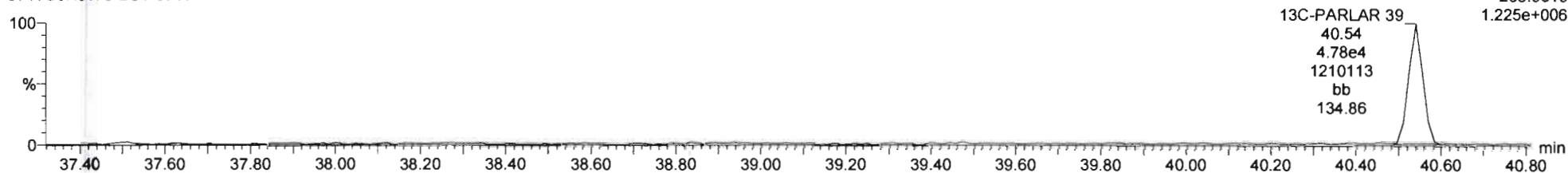
191122K3_10
OPR B9K0170-BS1 OPR 1

F4:Voltage SIR,EI+
251.9648
9.557e+005



191122K3_10
OPR B9K0170-BS1 OPR 1

F4:Voltage SIR,EI+
253.9619
1.225e+006



Dataset: U:\WG11.PRO\Results\191122K3\191122K3-10.qld

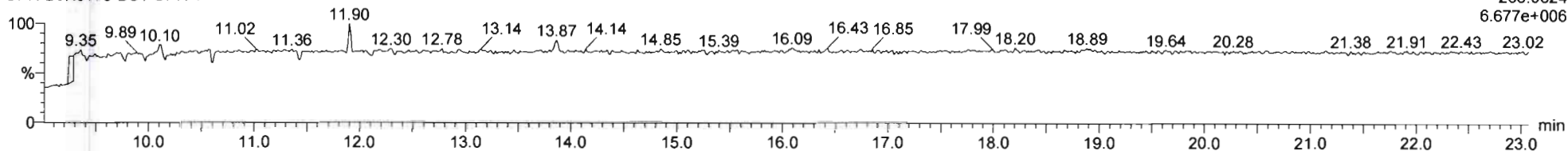
Last Altered: Monday, November 25, 2019 11:31:52 Pacific Standard Time
Printed: Tuesday, November 26, 2019 08:10:16 Pacific Standard Time

Name: 191122K3_10, Date: 22-Nov-2019, Time: 23:25:35, ID: B9K0170-BS1 OPR 1, Description: OPR

PFK1

191122K3_10
OPR B9K0170-BS1 OPR 1

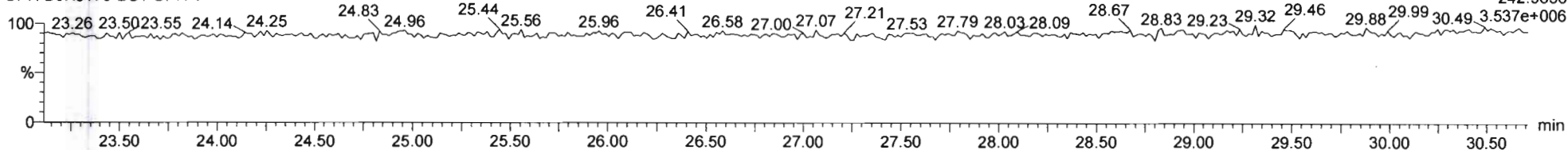
F1:Voltage SIR,EI+
268.9824
6.677e+006



PFK2

191122K3_10
OPR B9K0170-BS1 OPR 1

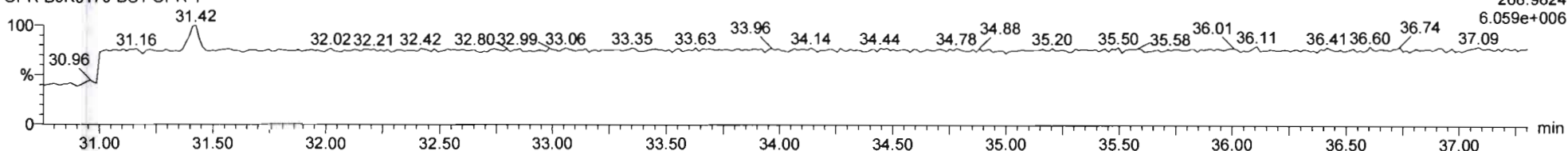
F2:Voltage SIR,EI+
242.9856
3.537e+006



PFK3

191122K3_10
OPR B9K0170-BS1 OPR 1

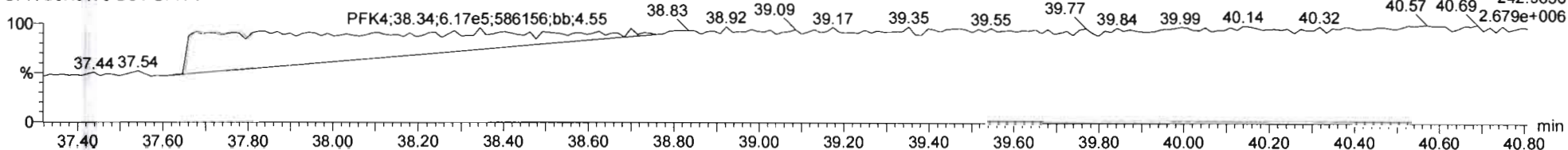
F3:Voltage SIR,EI+
268.9824
6.059e+006



PFK4

191122K3_10
OPR B9K0170-BS1 OPR 1

F4:Voltage SIR,EI+
242.9856
2.679e+006



Dataset: U:\VG11.PRO\Results\191122K3\191122K3-10.qld

Last Altered: Monday, November 25, 2019 11:31:52 Pacific Standard Time

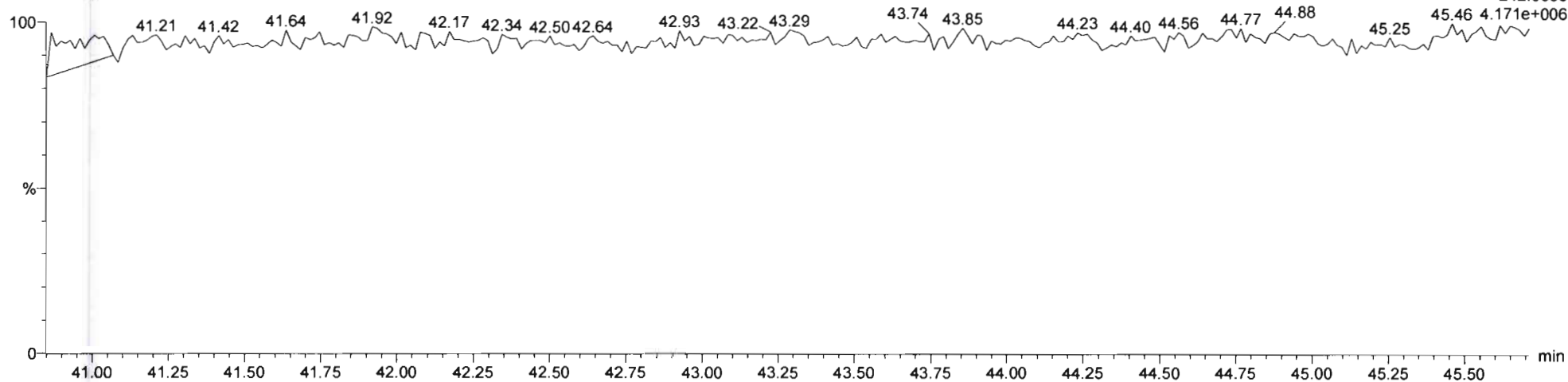
Printed: Tuesday, November 26, 2019 08:10:16 Pacific Standard Time

Name: 191122K3_10, Date: 22-Nov-2019, Time: 23:25:35, ID: B9K0170-BS1 OPR 1, Description: OPR

PFK5

191122K3_10
OPR B9K0170-BS1 OPR 1

F5:Voltage SiR,El+
242.9856



Dataset: U:\VG11.PRO\Results\200125K1\200125K1-14.qld

Last Altered: Monday, January 27, 2020 10:57:59 Pacific Standard Time

Printed: Monday, January 27, 2020 10:59:19 Pacific Standard Time

HL 1.27.2020

C7 02/04/2020

Method: U:\VG11.PRO\MethDB\1699rrt-01-25-2020.mdb 25 Jan 2020 13:55:51

Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-1-25-20-LIMITED.cdb 27 Jan 2020 09:02:26

Name: 200125K1_14, Date: 25-Jan-2020, Time: 23:46:59, ID: B9L0270-BLK1 Method Blank 1, Description: Method Blank

#	Name	Resp	IS Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	RRT Fail	Conc	%Rec	DL	EMPC
1	4 Lindane (gamma-BHC)	1.69e5			NO	0.869	1.000	26.51			1.001	YES			53.3	
2	9 Aldrin	1.11e5			NO	1.11	1.000	30.79			1.001	YES			9.80	
3	10 Oxychlordane	2.65e4			NO	1.09	1.000	33.37			1.001	YES			37.6	
4	13 trans-Chlordane (gam...	2.57e4			NO	1.18	1.000	35.07			1.001	YES			36.2	
5	14 trans-Nonachlor	3.04e4			NO	1.08	1.000	35.26			1.001	YES			28.1	
6	15 cis-Chlordane	3.04e4			NO	1.11	1.000	35.74			1.014	YES			27.3	
7	18 2,4'-DDE	6.65e5			NO	0.984	1.000	35.73			1.000	YES			31.5	
8	19 4,4'-DDE	4.59e5			NO	0.996	1.000	36.80			1.000	NO			42.4	
9	20 Dieldrin	6.15e4			NO	1.09	1.000	37.30			1.000	YES			16.7	
10	22 cis-Nonachlor	3.19e4			NO	1.08	1.000	38.99			1.000	YES			29.9	

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\200125K1\200125K1-14.qld

Last Altered: Monday, January 27, 2020 10:57:59 Pacific Standard Time

Printed: Monday, January 27, 2020 10:59:25 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1699rrt-01-25-2020.mdb 25 Jan 2020 13:55:51

Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-1-25-20-LIMITED.cdb 27 Jan 2020 09:02:26

Name: 200125K1_14, Date: 25-Jan-2020, Time: 23:46:59, ID: B9L0270-BLK1 Method Blank 1, Description: Method Blank

	#.Name	Resp	IS Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	RRT Fail	Conc	%Rec	DL	EMPC
1	24 2,4'-DDD		6.06e5		NO	1.05	1.000	37.92			1.000	YES			74.9	
2	25 2,4'-DDT		3.41e5		NO	1.03	1.000	39.07			1.000	YES			138	
3	26 4,4'-DDD		4.75e5		NO	1.12	1.000	39.20			1.000	YES			79.1	
4	27 4,4'-DDT		2.82e5		NO	1.13	1.000	40.27			1.000	YES			139	
5	36 13C6-Lindane (gamma)	1.69e5	9.76e5	0.79	NO	0.201	1.000	26.46	26.48	1.019	1.018	NO	4320	86.4	39.1	
6	40 13C12-Aldrin	1.11e5	9.76e5	1.66	NO	0.130	1.000	30.78	30.76	1.184	1.185	NO	4350	87.1	26.6	
7	41 13C10-Oxychlorane	2.65e4	9.76e5	1.59	NO	0.0314	1.000	33.38	33.35	1.284	1.285	NO	4330	86.7	110	

Dataset: U:\VG11.PRO\Results\200125K1\200125K1-14.qld

Last Altered: Monday, January 27, 2020 10:57:59 Pacific Standard Time

Printed: Monday, January 27, 2020 10:59:32 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1699rrt-01-25-2020.mdb 25 Jan 2020 13:55:51

Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-1-25-20-LIMITED.cdb 27 Jan 2020 09:02:26

Name: 200125K1_14, Date: 25-Jan-2020, Time: 23:46:59, ID: B9L0270-BLK1 Method Blank 1, Description: Method Blank

	#.Name	Resp	IS Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	RRT Fail	Conc	%Rec	DL	EMPC
1	43 13C10-trans-Chlordan...	2.57e4	9.76e5	1.53	NO	0.0281	1.000	35.08	35.05	1.349	1.350	NO	4680	93.5	123	
2	44 13C10-trans-Nonachlor	3.04e4	9.76e5	1.51	NO	0.0330	1.000	35.27	35.23	1.356	1.357	NO	4730	94.5	105	
3	46 13C12-2,4'-DDE	6.65e5	9.76e5	1.59	NO	0.765	1.000	35.69	35.72	0.996	0.995	NO	4450	89.0	11.2	
4	47 13C12-4,4'-DDE	4.59e5	9.76e5	1.60	NO	0.556	1.000	36.77	36.78	1.026	1.025	NO	4230	84.7	15.4	
5	48 13C12-Dieldrin	6.15e4	9.76e5	1.56	NO	0.0759	1.000	37.28	37.28	1.040	1.040	NO	4150	83.0	45.3	
6	50 13C10-cis-Nonachlor	3.19e4	9.76e5	1.68	NO	0.0389	1.000	38.97	38.97	1.087	1.087	NO	4200	83.9	88.3	
7	52 13C12-2,4'-DDD	6.06e5	9.76e5	1.58	NO	0.754	1.000	37.95	37.92	1.460	1.461	NO	4110	82.3	14.9	
8	53 13C12-2,4'-DDT	3.41e5	9.76e5	1.60	NO	0.519	1.000	39.08	39.05	1.503	1.504	NO	3360	67.2	21.7	
9	54 13C12-4,4'-DDD	4.75e5	9.76e5	1.61	NO	0.662	1.000	39.21	39.18	1.508	1.509	NO	3670	73.4	17.0	
10	55 13C12-4,4'-DDT	2.82e5	9.76e5	1.61	NO	0.419	1.000	40.28	40.25	1.549	1.551	NO	3450	69.0	26.9	
11	62 13C-PCB-15	9.76e5	9.76e5	1.57	NO	1.00	1.000	25.96	25.98	1.000	1.000	NO	5000	100	5.83	

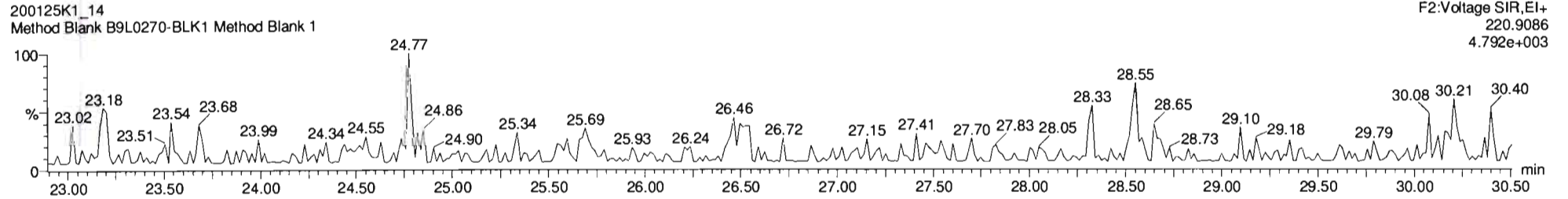
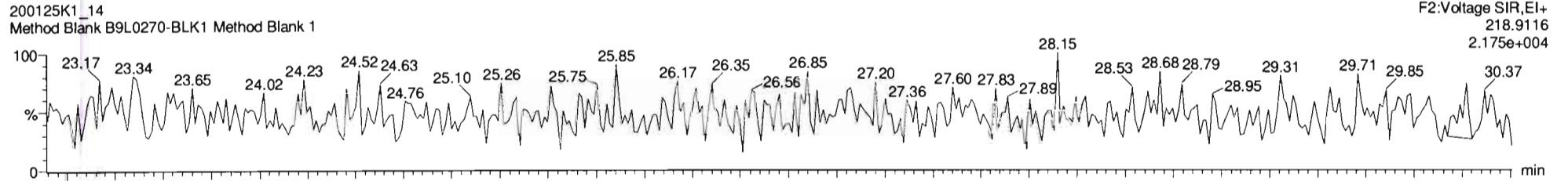
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Last Altered: Monday, January 27, 2020 11:02:20 Pacific Standard Time
Printed: Monday, January 27, 2020 11:03:04 Pacific Standard Time

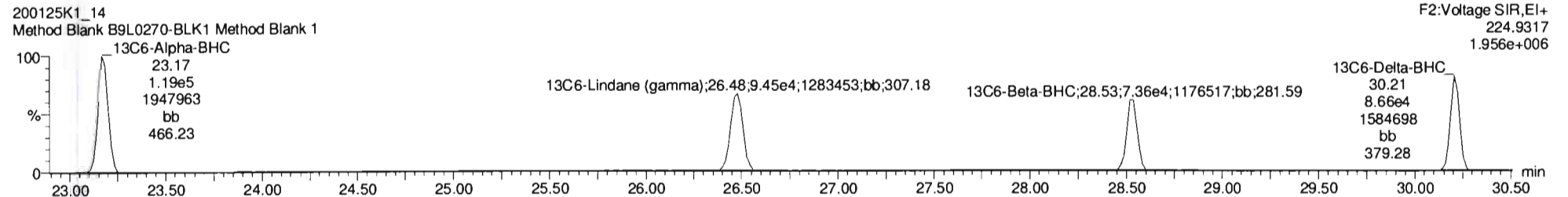
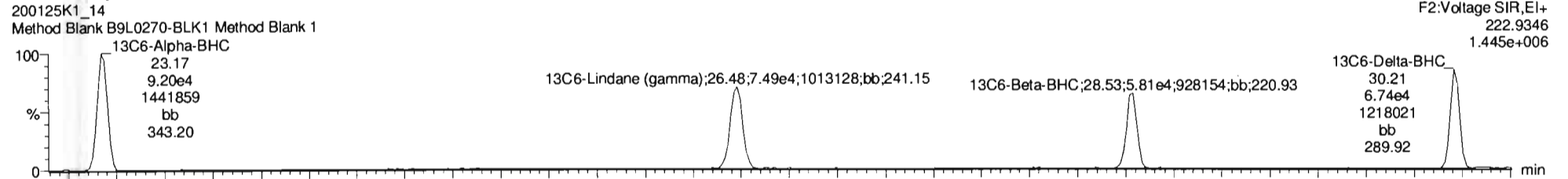
Method: U:\VG11.PRO\MethDB\1699rrt-01-25-2020.mdb 25 Jan 2020 13:55:51
Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-1-25-20-LIMITED.cdb 27 Jan 2020 09:02:26

Name: 200125K1_14, Date: 25-Jan-2020, Time: 23:46:59, ID: B9L0270-BLK1 Method Blank 1, Description: Method Blank

BHC Totals



BHC-isotopes



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

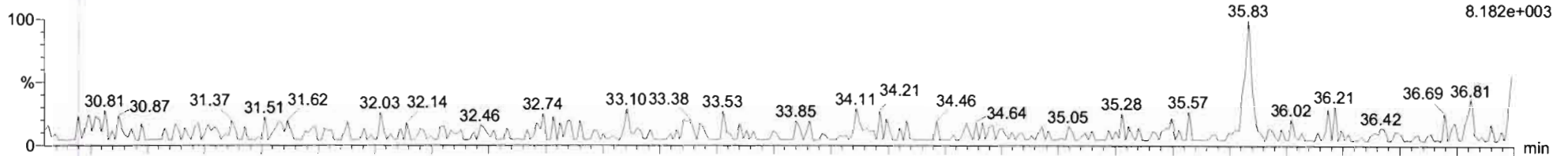
Printed: Monday, January 27, 2020 09:18:52 Pacific Standard Time

Name: 200125K1_14, Date: 25-Jan-2020, Time: 23:46:59, ID: B9L0270-BLK1 Method Blank 1, Description: Method Blank

Aldrin-EI

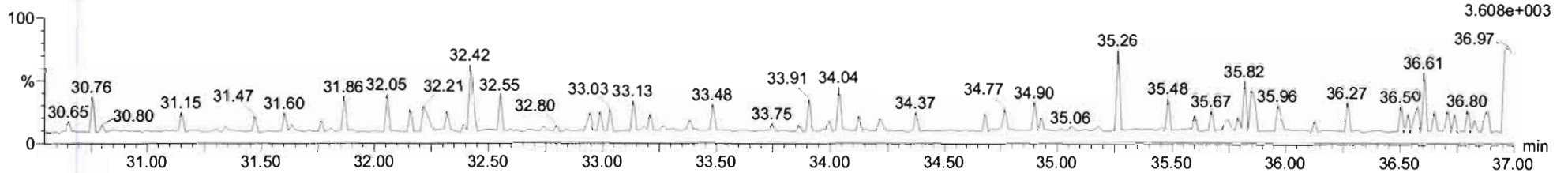
200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

F3:Voltage SIR,EI+
262.8569
8.182e+003



200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

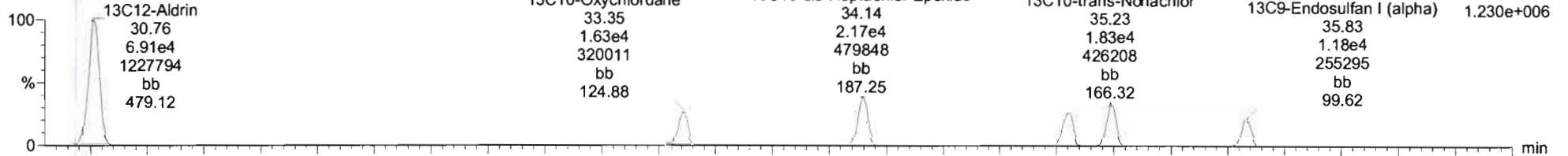
F3:Voltage SIR,EI+
264.8550
3.608e+003



Aldrin-EI-isotopes

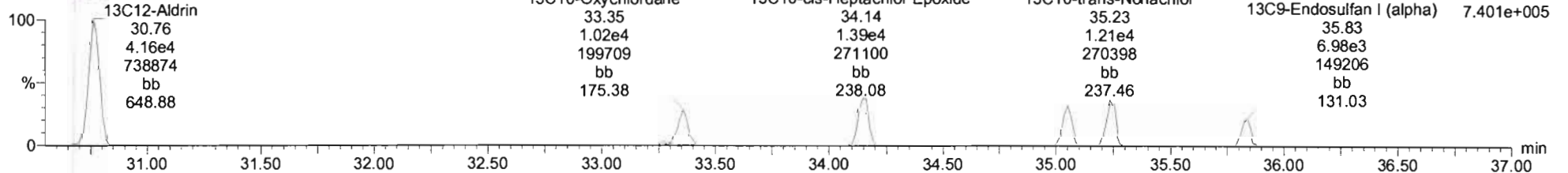
200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

F3:Voltage SIR,EI+
269.8804
1.230e+006



200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

F3:Voltage SIR,EI+
271.8775
7.401e+005



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

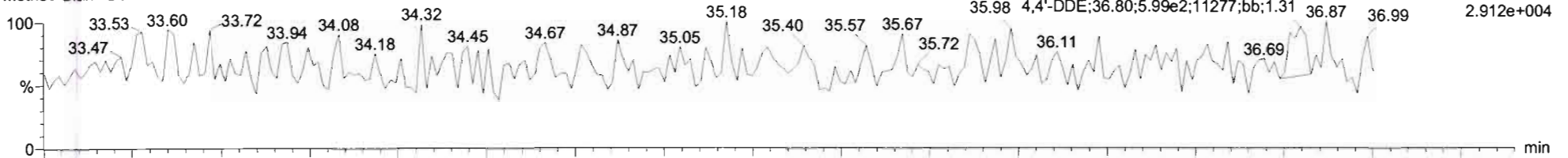
Printed: Monday, January 27, 2020 09:18:52 Pacific Standard Time

Name: 200125K1_14, Date: 25-Jan-2020, Time: 23:46:59, ID: B9L0270-BLK1 Method Blank 1, Description: Method Blank

DDMU-DDE

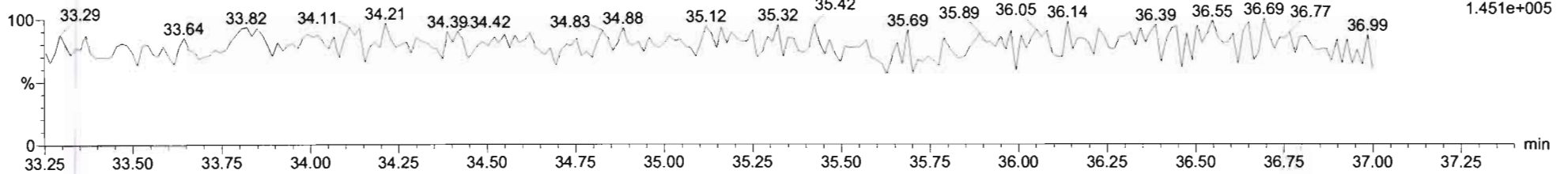
200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

F3:Voltage SIR,EI+
246.0003
2.912e+004



200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

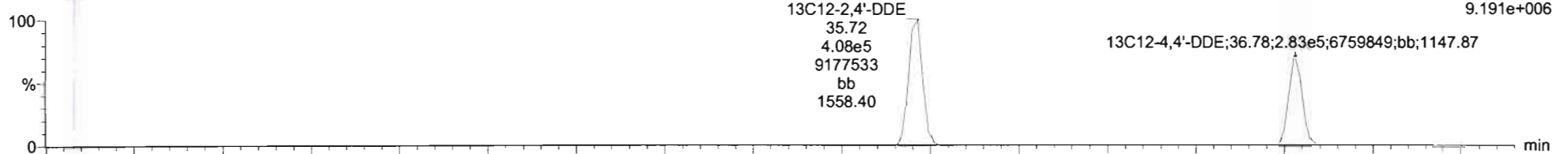
F3:Voltage SIR,EI+
247.9974
1.451e+005



DDE-isotopes

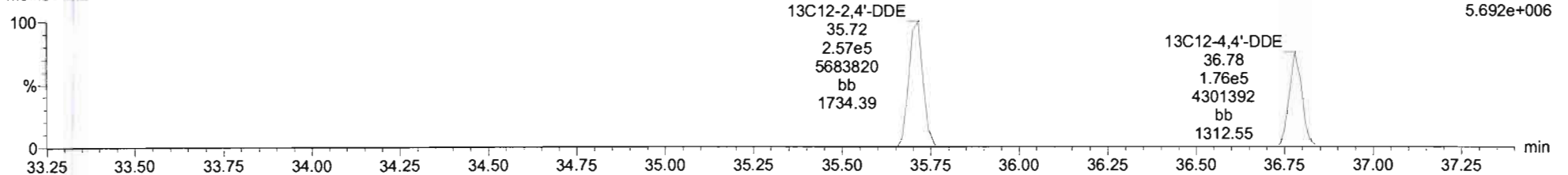
200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

F3:Voltage SIR,EI+
258.0406
9.191e+006



200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

F3:Voltage SIR,EI+
260.0376
5.692e+006



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

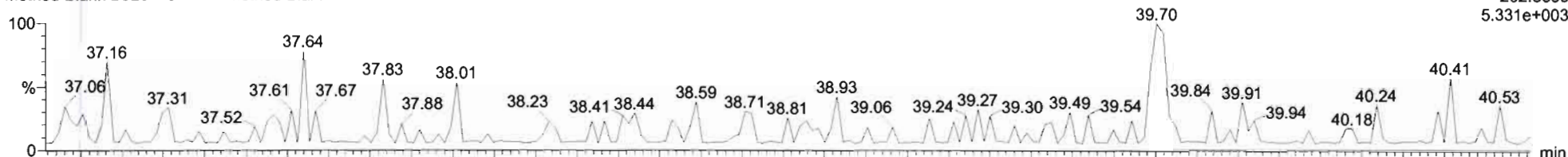
Printed: Monday, January 27, 2020 09:18:52 Pacific Standard Time

Name: 200125K1_14, Date: 25-Jan-2020, Time: 23:46:59, ID: B9L0270-BLK1 Method Blank 1, Description: Method Blank

Dieldrin-Ell

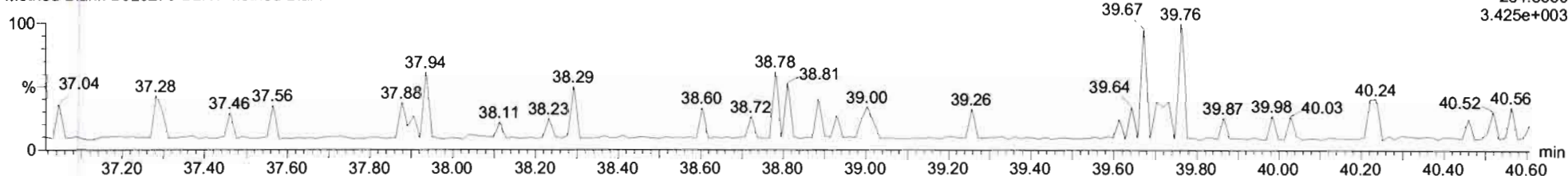
200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

F4:Voltage SIR,EI+
262.8569
5.331e+003



200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

F4:Voltage SIR,EI+
264.8550
3.425e+003

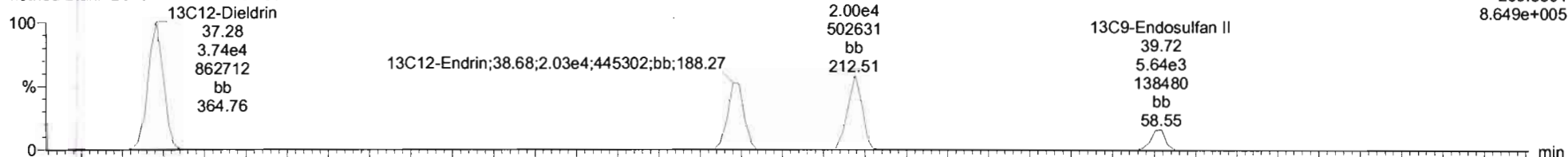


Dieldrin-Ell-isotopes

200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

13C10-cis-Nonachlor

F4:Voltage SIR,EI+
269.8804
8.649e+005

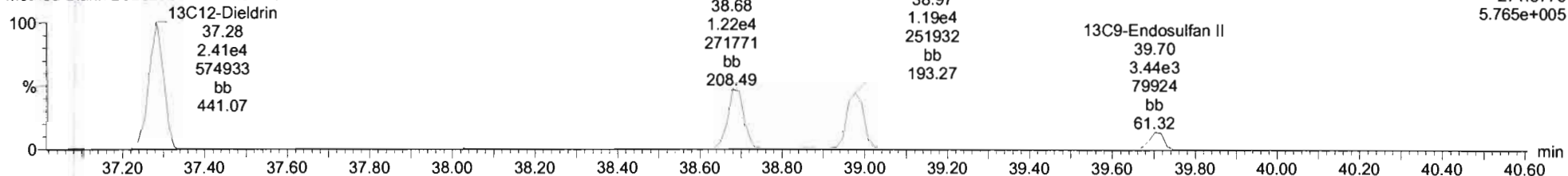


200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

13C12-Endrin

13C10-cis-Nonachlor

F4:Voltage SIR,EI+
271.8775
5.765e+005



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

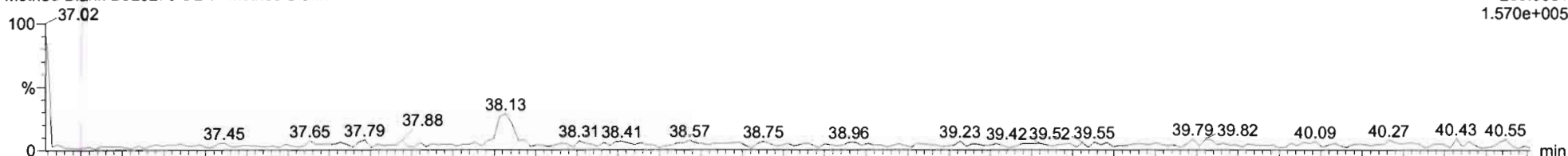
Printed: Monday, January 27, 2020 09:18:52 Pacific Standard Time

Name: 200125K1_14, Date: 25-Jan-2020, Time: 23:46:59, ID: B9L0270-BLK1 Method Blank 1, Description: Method Blank

DDD-DDT

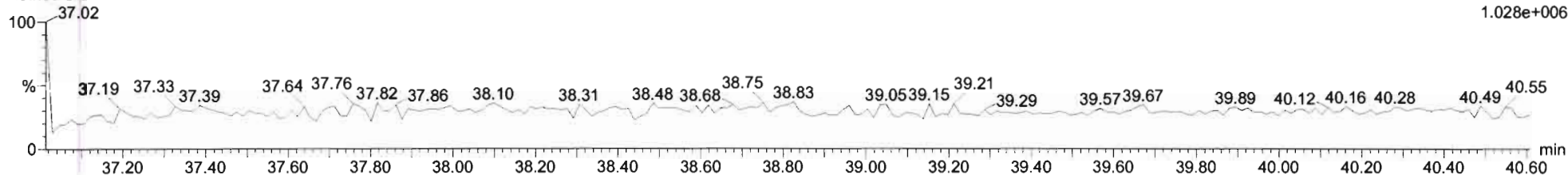
200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

F4:Voltage SIR,EI+
235.0081
1.570e+005



200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

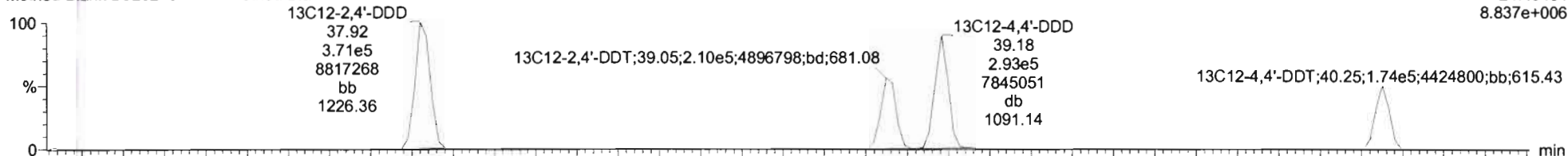
F4:Voltage SIR,EI+
237.0052
1.028e+006



DDD-DDT-isotopes

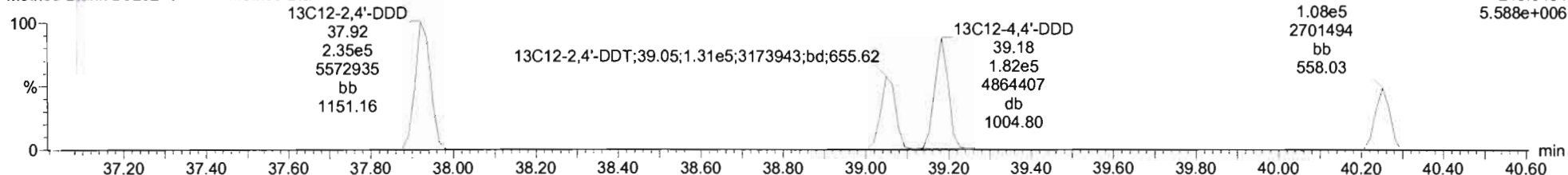
200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

F4:Voltage SIR,EI+
247.0484
8.837e+006



200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

F4:Voltage SIR,EI+
249.0454
5.588e+006



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

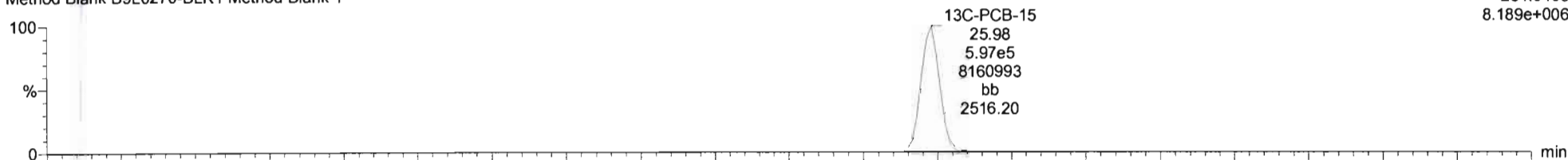
Printed: Monday, January 27, 2020 09:18:52 Pacific Standard Time

Name: 200125K1_14, Date: 25-Jan-2020, Time: 23:46:59, ID: B9L0270-BLK1 Method Blank 1, Description: Method Blank

13C-PCB-15

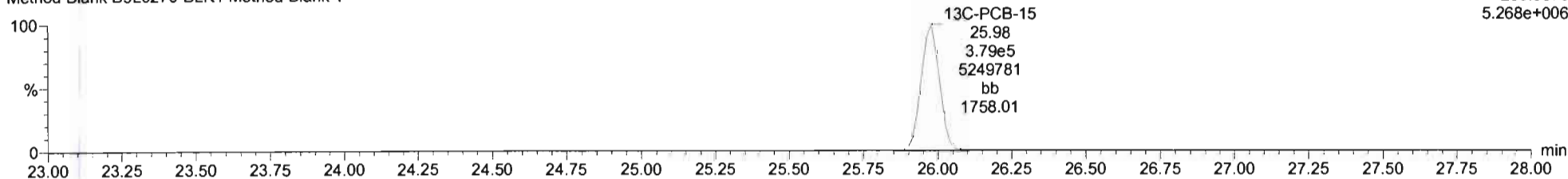
200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

F2:Voltage SIR,EI+
234.0406
8.189e+006



200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

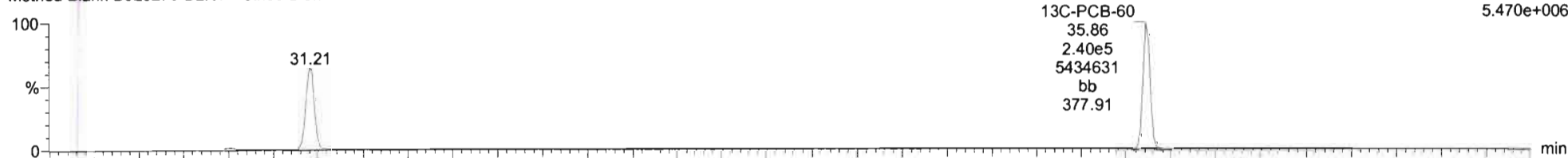
F2:Voltage SIR,EI+
236.0376
5.268e+006



13C-PCB-60

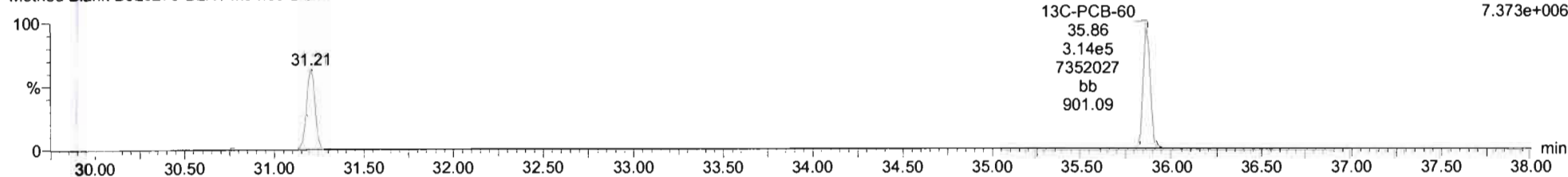
200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

F3:Voltage SIR,EI+
301.9626
5.470e+006



200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

F3:Voltage SIR,EI+
303.9597
7.373e+006



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

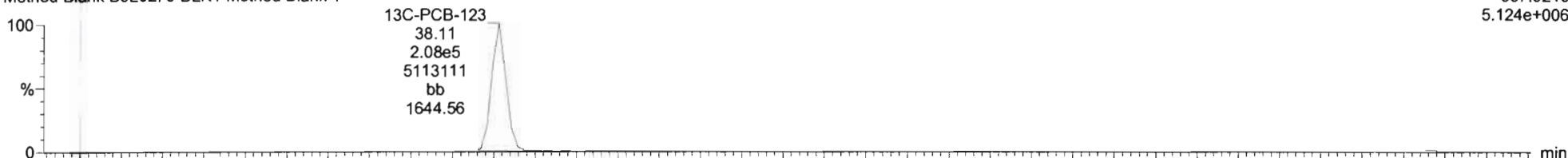
Printed: Monday, January 27, 2020 09:18:52 Pacific Standard Time

Name: 200125K1_14, Date: 25-Jan-2020, Time: 23:46:59, ID: B9L0270-BLK1 Method Blank 1, Description: Method Blank

13C-PCB-123

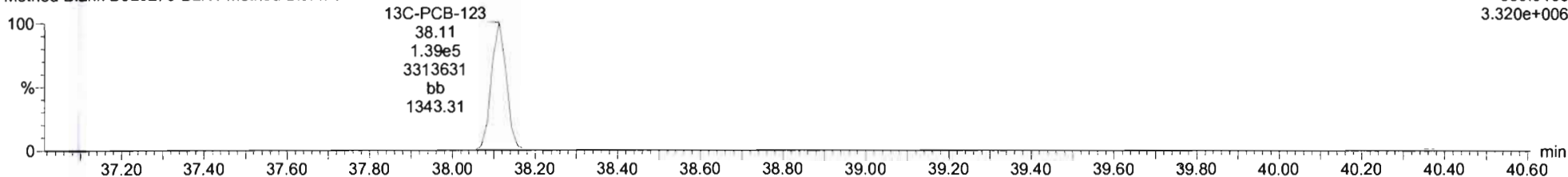
200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

F4:Voltage SIR,EI+
337.9210
5.124e+006



200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

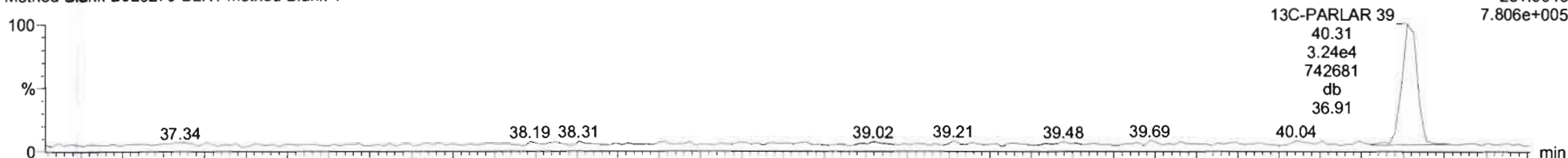
F4:Voltage SIR,EI+
339.9180
3.320e+006



13C-PARLAR 39

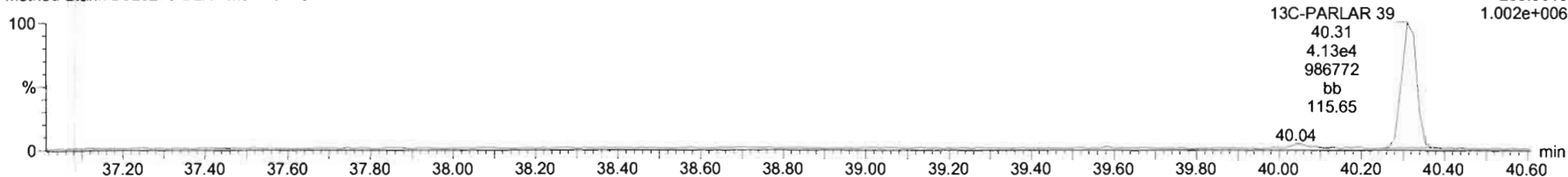
200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

F4:Voltage SIR,EI+
251.9648
7.806e+005



200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

F4:Voltage SIR,EI+
253.9619
1.002e+006



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

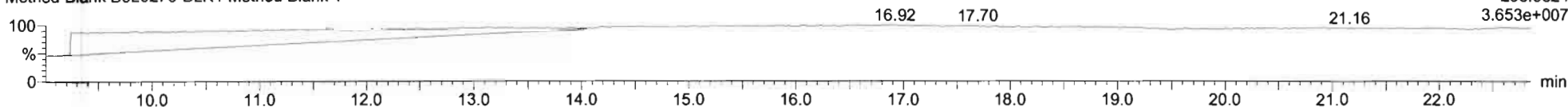
Printed: Monday, January 27, 2020 09:18:52 Pacific Standard Time

Name: 200125K1_14, Date: 25-Jan-2020, Time: 23:46:59, ID: B9L0270-BLK1 Method Blank 1, Description: Method Blank

PFK1

200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

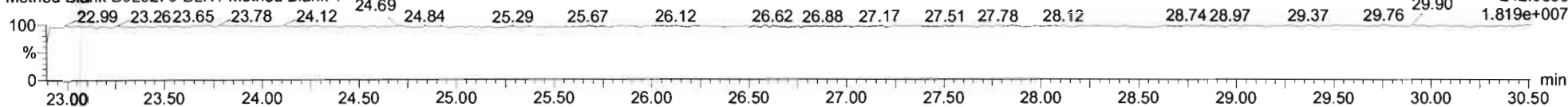
F1:Voltage SIR,EI+
268.9824
3.653e+007



PFK2

200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

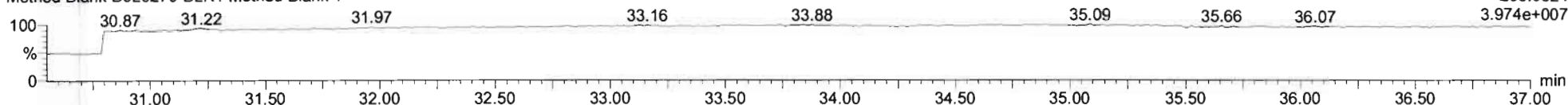
F2:Voltage SIR,EI+
242.9856
1.819e+007



PFK3

200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

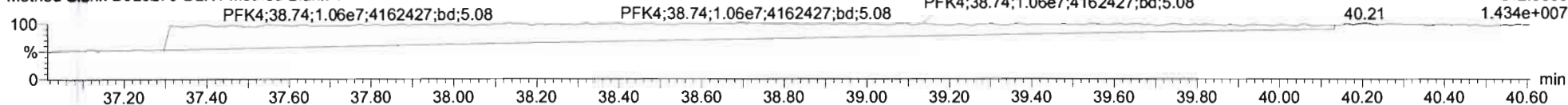
F3:Voltage SIR,EI+
268.9824
3.974e+007



PFK4

200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

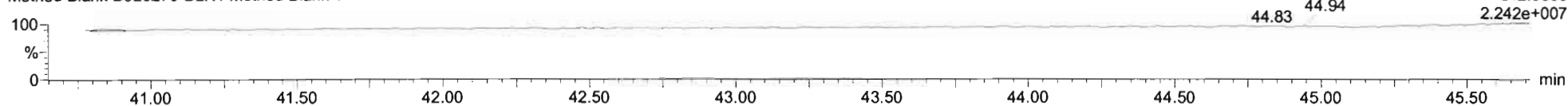
F4:Voltage SIR,EI+
242.9856
1.434e+007



PFK5

200125K1_14
Method Blank B9L0270-BLK1 Method Blank 1

F5:Voltage SIR,EI+
242.9856
2.242e+007



Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\200125K1\200125K1-12.qld

Last Altered: Monday, January 27, 2020 10:56:01 Pacific Standard Time

Printed: Monday, January 27, 2020 11:01:49 Pacific Standard Time

HL 1-27-2020

CT 02/04/2020

Method: U:\VG11.PRO\MethDB\1699rrt-01-25-2020.mdb 25 Jan 2020 13:55:51

Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-1-25-20-LIMITED.cdb 27 Jan 2020 09:02:26

Name: 200125K1_12, Date: 25-Jan-2020, Time: 22:09:02, ID: B9L0270-BS1 OPR 1, Description: OPR

	#.Name	Resp	IS Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	RRT Fail	Conc	%Rec	DL	EMPC
1	4 Lindane (gamma-BHC)	1.95e5	2.20e5	2.21	NO	0.869	1.000	26.51	26.51	1.001	1.001	NO	5120		47.2	5120
2	9 Aldrin	1.67e5	1.47e5	1.63	NO	1.11	1.000	30.79	30.80	1.001	1.001	NO	5120		10.7	5120
3	10 Oxychlordan	3.99e4	3.51e4	1.52	NO	1.09	1.000	33.37	33.38	1.001	1.001	NO	5200		39.1	5200
4	13 trans-Chlordane (gam...	3.82e4	3.24e4	1.66	NO	1.18	1.000	35.07	35.08	1.001	1.001	NO	5000		35.2	5000
5	14 trans-Nonachlor	4.22e4	3.97e4	1.53	NO	1.08	1.000	35.26	35.26	1.001	1.001	NO	4940		31.1	4940
6	15 cis-Chlordane	4.26e4	3.97e4	1.60	NO	1.11	1.000	35.74	35.75	1.015	1.014	NO	4840		30.2	4840
7	18 2,4'-DDE	8.85e5	9.03e5	1.41	NO	0.984	1.000	35.73	35.73	1.000	1.000	NO	4980		22.8	4980
8	19 4,4'-DDE	6.26e5	6.26e5	1.42	NO	0.996	1.000	36.80	36.80	1.000	1.000	NO	5020		30.1	5020
9	20 Dieldrin	9.35e4	8.38e4	1.54	NO	1.09	1.000	37.30	37.30	1.000	1.000	NO	5110		16.1	5110
10	22 cis-Nonachlor	4.63e4	4.12e4	1.62	NO	1.08	1.000	38.99	38.99	1.000	1.000	NO	5220		31.9	5220

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\200125K1\200125K1-12.qld

Last Altered: Monday, January 27, 2020 10:56:01 Pacific Standard Time

Printed: Monday, January 27, 2020 11:01:55 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1699rrt-01-25-2020.mdb 25 Jan 2020 13:55:51

Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-1-25-20-LIMITED.cdb 27 Jan 2020 09:02:26

Name: 200125K1_12, Date: 25-Jan-2020, Time: 22:09:02, ID: B9L0270-BS1 OPR 1, Description: OPR

	#.Name	Resp	IS Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	RRT Fail	Conc	%Rec	DL	EMPC
1	24 2,4'-DDD	8.68e5	8.16e5	1.50	NO	1.05	1.000	37.94	37.95	1.000	1.000	NO	5080		50.2	5080
2	25 2,4'-DDT	5.68e5	5.01e5	1.50	NO	1.03	1.000	39.08	39.08	1.000	1.000	NO	5510		82.5	5510
3	26 4,4'-DDD	7.80e5	6.79e5	1.54	NO	1.12	1.000	39.20	39.20	1.000	1.000	NO	5110		52.8	5110
4	27 4,4'-DDT	4.87e5	4.34e5	1.53	NO	1.13	1.000	40.27	40.27	1.000	1.000	NO	4950		80.7	4950
5	36 13C6-Lindane (gamma)	2.20e5	1.22e6	0.79	NO	0.201	1.000	26.45	26.48	1.019	1.018	NO	4490	89.9	33.7	
6	40 13C12-Aldrin	1.47e5	1.22e6	1.68	NO	0.130	1.000	30.78	30.76	1.184	1.185	NO	4620	92.4	22.1	
7	41 13C10-Oxychlorane	3.51e4	1.22e6	1.69	NO	0.0314	1.000	33.38	33.35	1.284	1.285	NO	4590	91.7	91.9	

Dataset: U:\VG11.PRO\Results\200125K1\200125K1-12.qld

Last Altered: Monday, January 27, 2020 10:56:01 Pacific Standard Time
Printed: Tuesday, February 04, 2020 10:56:23 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1699rrt-01-25-2020.mdb 25 Jan 2020 13:55:51

Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-1-25-20-LIMITED.cdb 27 Jan 2020 09:02:26

Name: 200125K1_12, Date: 25-Jan-2020, Time: 22:09:02, ID: B9L0270-BS1 OPR 1, Description: OPR

	#-Name	Resp	IS Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	RRT Fail	Conc	%Rec	DL	EMPC
1	43 13C10-trans-Chlordan...	3.24e4	1.22e6	1.67	NO	0.0281	1.000	35.08	35.05	1.349	1.350	NO	4730	94.6	103	
2	44 13C10-trans-Nonachlor	3.97e4	1.22e6	1.48	NO	0.0330	1.000	35.27	35.24	1.356	1.357	NO	4940	98.8	87.4	
3	46 13C12-2,4'-DDE	9.03e5	1.22e6	1.57	NO	0.765	1.000	35.69	35.72	0.996	0.995	NO	4840	96.9	9.62	
4	47 13C12-4,4'-DDE	6.26e5	1.22e6	1.60	NO	0.556	1.000	36.77	36.78	1.026	1.025	NO	4620	92.4	13.2	
5	48 13C12-Dieldrin	8.38e4	1.22e6	1.55	NO	0.0759	1.000	37.28	37.28	1.040	1.040	NO	4530	90.6	38.9	
6	50 13C10-cis-Nonachlor	4.12e4	1.22e6	1.56	NO	0.0389	1.000	38.97	38.97	1.087	1.087	NO	4350	86.9	75.8	
7	52 13C12-2,4'-DDD	8.16e5	1.22e6	1.58	NO	0.754	1.000	37.95	37.94	1.460	1.461	NO	4440	88.7	15.4	
8	53 13C12-2,4'-DDT	5.01e5	1.22e6	1.57	NO	0.519	1.000	39.08	39.06	1.504	1.504	NO	3960	79.2	22.3	
9	54 13C12-4,4'-DDD	6.79e5	1.22e6	1.55	NO	0.662	1.000	39.21	39.18	1.508	1.509	NO	4210	84.2	17.5	
10	55 13C12-4,4'-DDT	4.34e5	1.22e6	1.61	NO	0.419	1.000	40.28	40.25	1.549	1.551	NO	4250	85.0	27.7	
11	62 13C-PCB-15	1.22e6	1.22e6	1.59	NO	1.00	1.000	25.96	25.98	1.000	1.000	NO	5000	100	4.76	

Dataset: Untitled

Last Altered: Monday, January 27, 2020 11:00:40 Pacific Standard Time

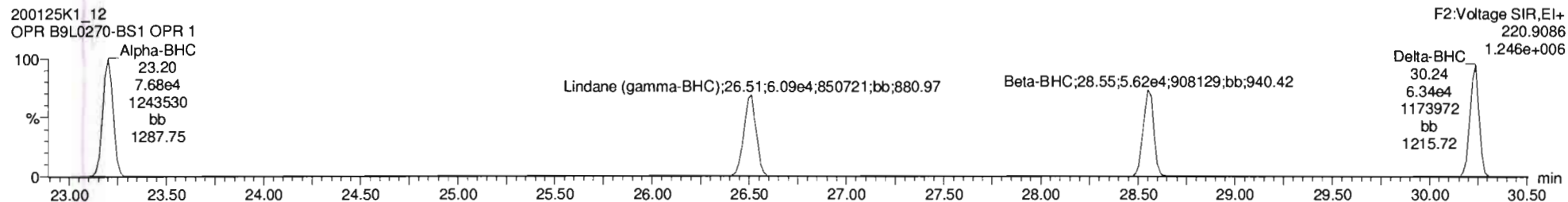
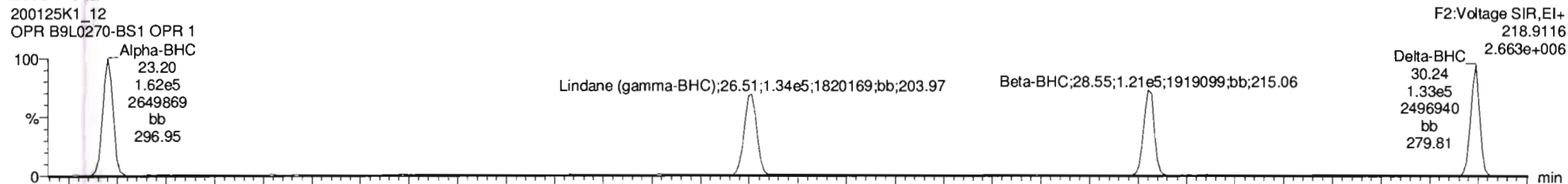
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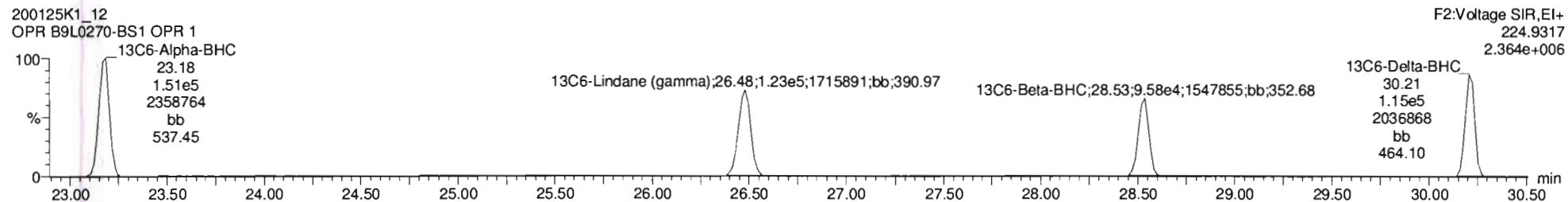
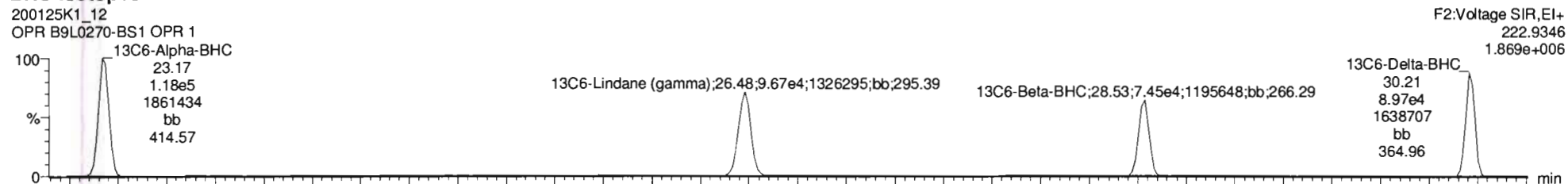
Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-1-25-20-LIMITED.cdb 27 Jan 2020 09:02:26

Name: 200125K1_12, Date: 25-Jan-2020, Time: 22:09:02, ID: B9L0270-BS1 OPR 1, Description: OPR

BHC Totals



BHC-isotopes



Dataset: Untitled

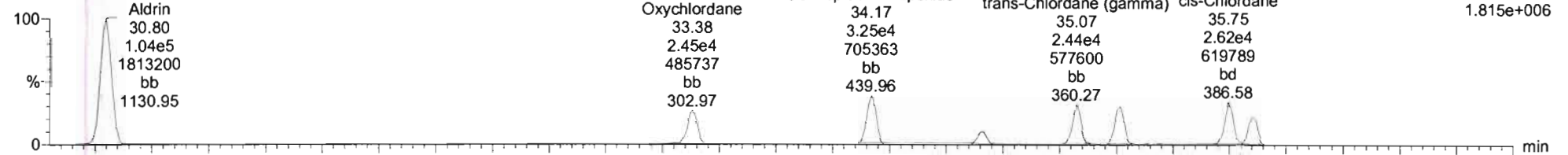
Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

Printed: Monday, January 27, 2020 09:18:52 Pacific Standard Time

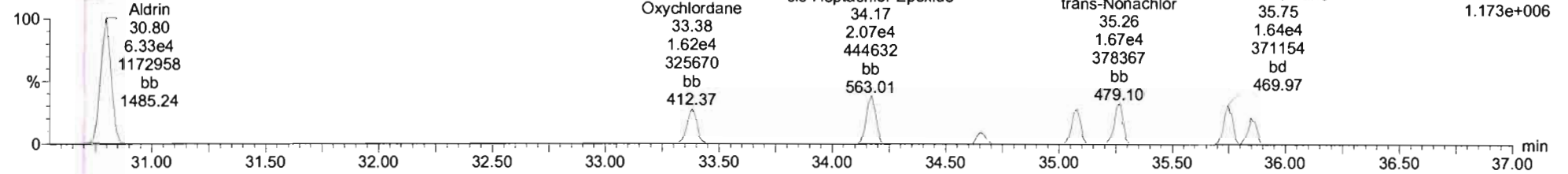
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Aldrin-EI

200125K1_12
OPR B9L0270-BS1 OPR 1

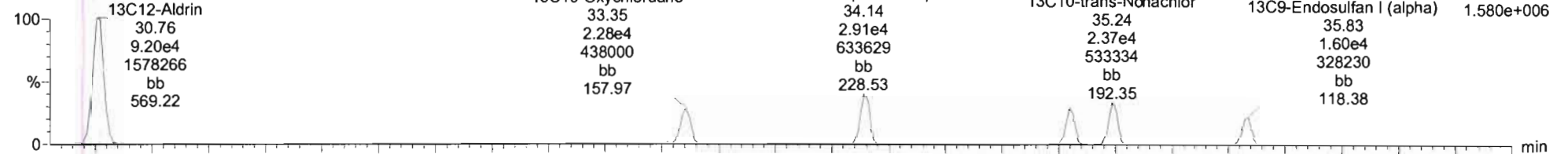


200125K1_12
OPR B9L0270-BS1 OPR 1

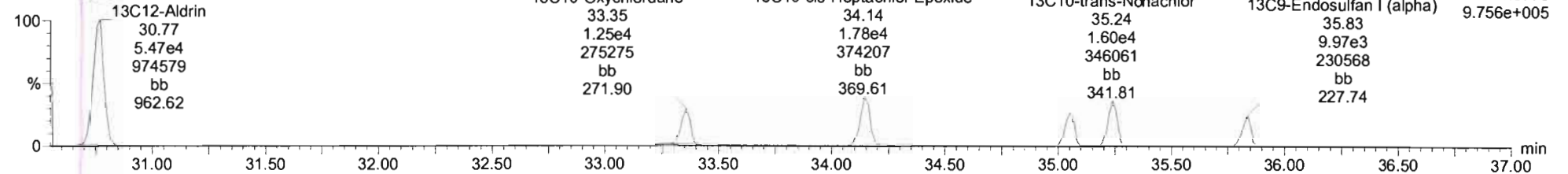


Aldrin-EI-isotopes

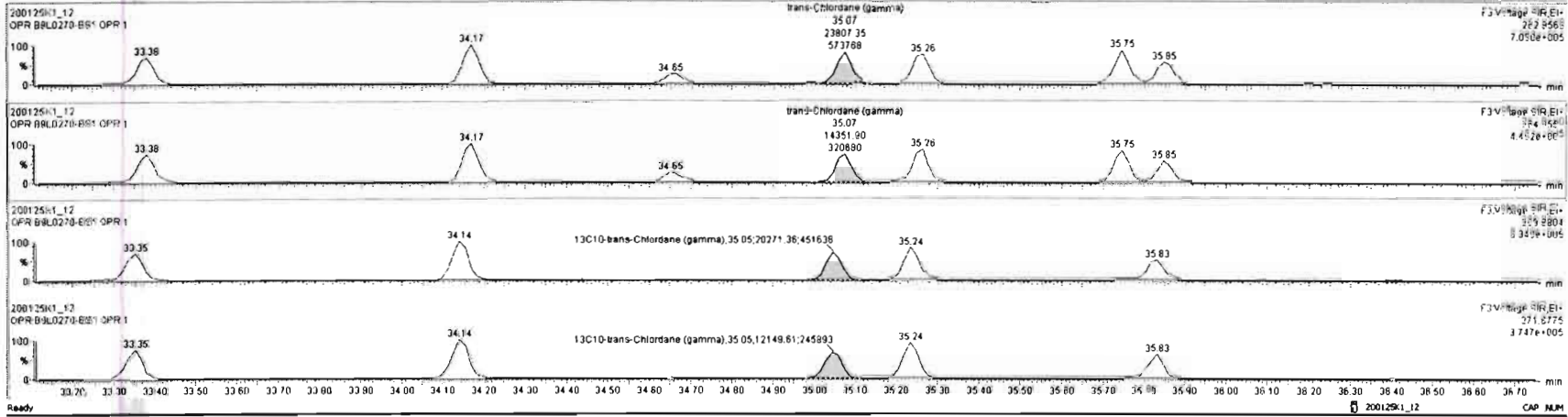
200125K1_12
OPR B9L0270-BS1 OPR 1



200125K1_12
OPR B9L0270-BS1 OPR 1



#	Name	Resp	IS Resp	ISA	RA	ny	RRF	wt/wt	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	EMPC
1	Hexachlorobenzene	2.03e4	1.35e6	33	0.09	YES	0.0339	1.000	9.97	9.98	1.001	1.000	NO	72200		42.5	3390
2	Hexachlorobenzene	5.07e5	4.73e5	34	1.74	NO	0.9959	1.000	22.66	22.65	1.001	1.001	NO	5370		1.43	5370
3	Alpha-BHC	7.99e5	7.70e5	35	2.11	NO	0.9617	1.000	23.21	23.20	1.001	1.002	NO	5150		33.8	5150
4	Lindane (gamma-BHC)	1.95e5	2.20e5	36	2.21	NO	0.8690	1.000	26.51	26.51	1.001	1.001	NO	5130		47.2	5130
5	Beta-BHC	1.77e5	1.70e5	37	2.18	NO	1.0173	1.000	28.54	28.55	1.001	1.000	NO	5130		44.5	5130
6	Delta-BHC	1.97e5	2.04e5	38	2.10	NO	0.9531	1.000	30.73	30.74	1.001	1.001	NO	5050		34.8	5050
7	Heptachlor	1.29e5	1.14e5	39	1.15	NO	1.0787	1.000	28.68	28.68	1.001	1.001	NO	5230		8.73	5230
8	4,4'-DDMU	2.26e5	2.04e5	38	3.05	NO	1.2643	1.000	30.12	30.14	0.998	0.997	NO	4380		17.3	4380
9	Alrin	1.87e5	1.47e5	40	1.64	NO	1.1111	1.000	30.79	30.80	1.001	1.001	NO	5130		10.7	5130
10	Chrysochlorane	3.99e4	3.51e4	41	1.52	NO	1.0639	1.000	33.37	33.38	1.001	1.001	NO	5200		36.1	5200
11	cis-Heptachlor Epoxide	5.32e4	4.68e4	42	1.57	NO	1.1318	1.000	34.16	34.17	1.001	1.001	NO	5020		25.9	5020
12	trans-Heptachlor Epoxide	1.36e4	4.68e4	42	1.77	NO	0.2603	1.000	34.65	34.65	1.015	1.015	NO	5580		113	5580
13	trans-Chlordane (gamma)	3.82e4	3.24e4	43	1.88	NO	1.1780	1.000	35.07	35.07	1.001	1.001	NO	5000		35.2	5000
14	trans-Nonachlor	4.22e4	3.97e4	44	1.53	NO	1.0766	1.000	35.26	35.26	1.001	1.001	NO	4940		31.1	4940
15	cis-Chlordane	4.26e4	3.97e4	44	1.60	NO	1.1080	1.000	35.74	35.75	1.014	1.014	NO	4840		30.2	4840
16	Endosulfan I (alpha)	2.93e4	2.58e4	45	1.73	NO	1.1552	1.000	35.85	35.85	1.000	1.001	NO	4880		48.6	4880
17	4,4'-DDMU	5.36e5	9.03e5	46	3.12	NO	0.8758	1.000	35.51	35.50	0.994	0.994	NO	4880		5.30	4880
18	4,4'-DDE	8.86e5	9.03e5	46	1.41	NO	0.9841	1.000	35.73	35.73	1.000	1.000	NO	4980		22.8	4980
19	4,4'-DDE	6.26e5	6.26e5	47	1.42	NO	0.9961	1.000	36.60	36.60	1.000	1.000	NO	5020		30.1	5020
20	Deslalin	9.35e4	8.30e4	48	1.54	NO	1.0934	1.000	37.30	37.30	1.000	1.000	NO	5110		16.1	5110
21	Endrin	5.46e4	5.02e4	49	1.51	NO	1.0566	1.000	36.69	36.71	1.000	1.000	NO	5150		26.3	5150
22	cis-Nonachlor	4.63e4	4.12e4	50	1.87	NO	1.0772	1.000	36.98	36.99	1.000	1.000	NO	5220		31.9	5220
23	Endosulfan I (beta)	1.47e4	1.30e4	51	1.58	NO	1.1102	1.000	38.70	38.73	1.001	1.000	NO	5080		11.0	5080
24	4,4'-DDMU	8.66e5	8.19e5	52	1.50	NO	1.0487	1.000	37.64	37.65	1.000	1.000	NO	5060		40.3	5060



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Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

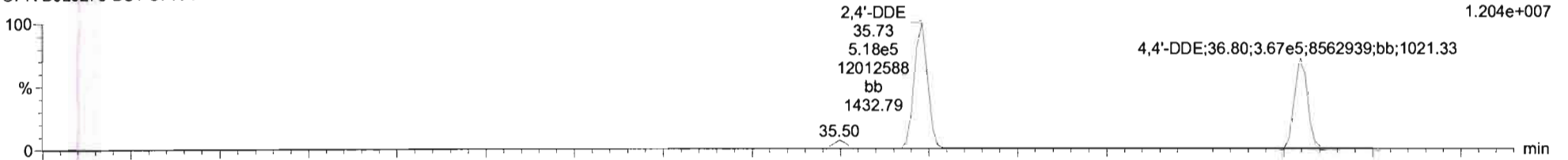
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DDMU-DDE

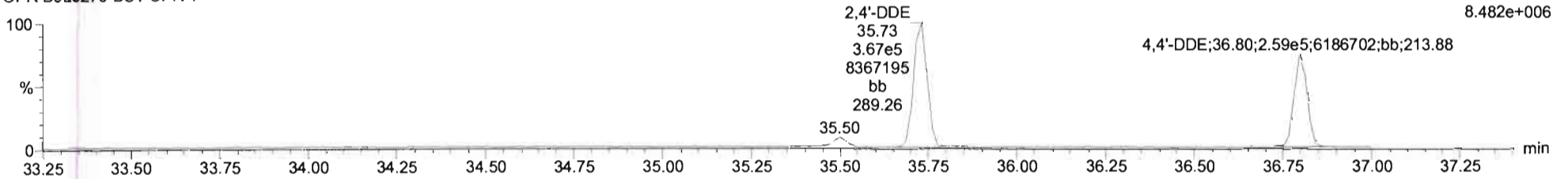
200125K1_12
OPR B9L0270-BS1 OPR 1

F3:Voltage SIR,EI+
246.0003
1.204e+007



200125K1_12
OPR B9L0270-BS1 OPR 1

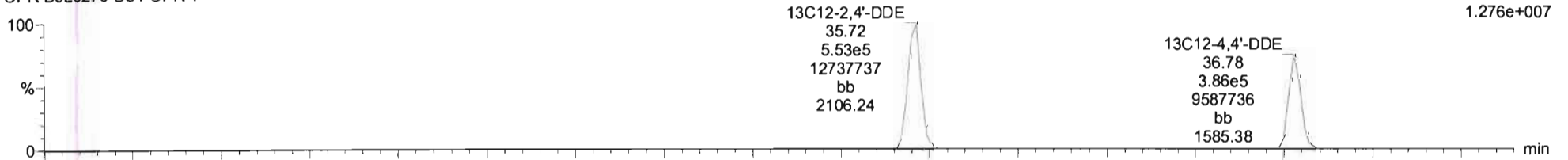
F3:Voltage SIR,EI+
247.9974
8.482e+006



DDE-isotopes

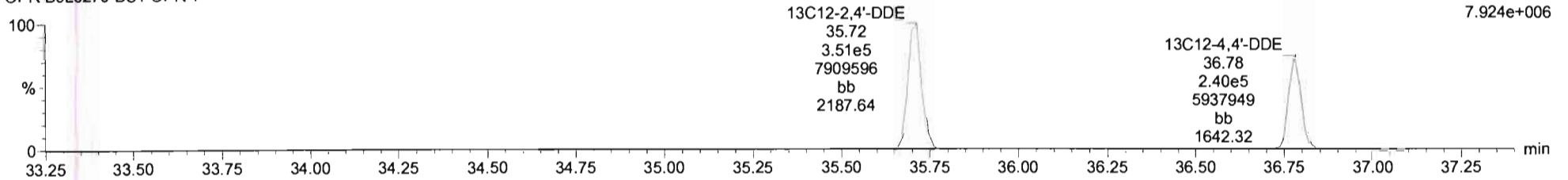
200125K1_12
OPR B9L0270-BS1 OPR 1

F3:Voltage SIR,EI+
258.0406
1.276e+007



200125K1_12
OPR B9L0270-BS1 OPR 1

F3:Voltage SIR,EI+
260.0376
7.924e+006



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

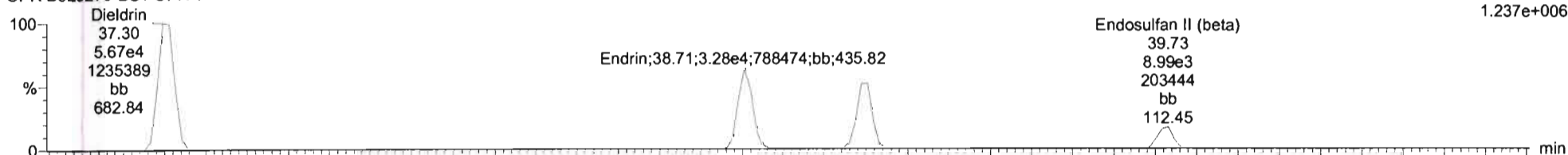
Printed: Monday, January 27, 2020 09:18:52 Pacific Standard Time

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Dieldrin-EI1

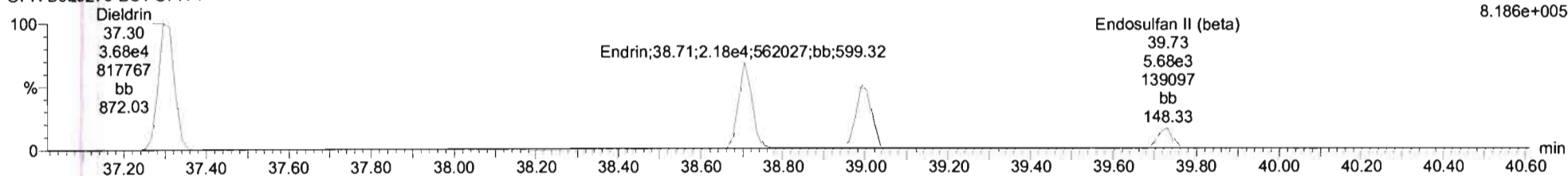
200125K1_12
OPR B9L0270-BS1 OPR 1

F4:Voltage SIR,EI+
262.8569
1.237e+006



200125K1_12
OPR B9L0270-BS1 OPR 1

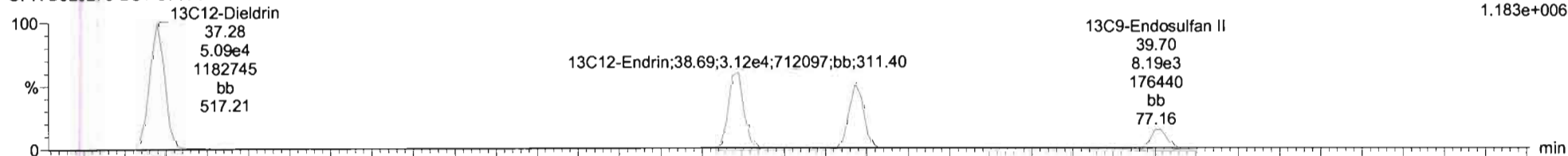
F4:Voltage SIR,EI+
264.8550
8.186e+005



Dieldrin-EI1-isotopes

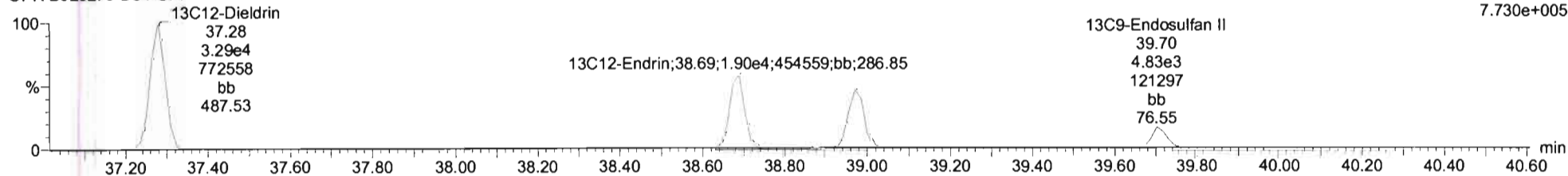
200125K1_12
OPR B9L0270-BS1 OPR 1

F4:Voltage SIR,EI+
269.8804
1.183e+006



200125K1_12
OPR B9L0270-BS1 OPR 1

F4:Voltage SIR,EI+
271.8775
7.730e+005



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

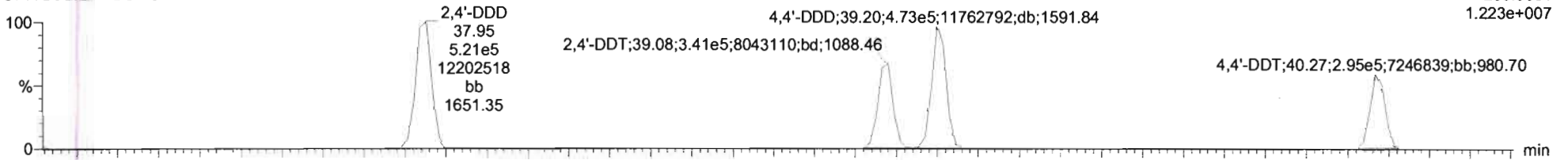
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DDD-DDT

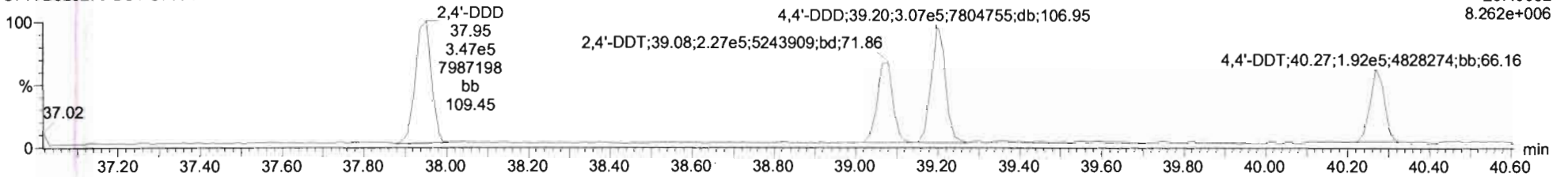
200125K1_12
OPR B9L0270-BS1 OPR 1

F4:Voltage SIR,EI+
235.0081
1.223e+007



200125K1_12
OPR B9L0270-BS1 OPR 1

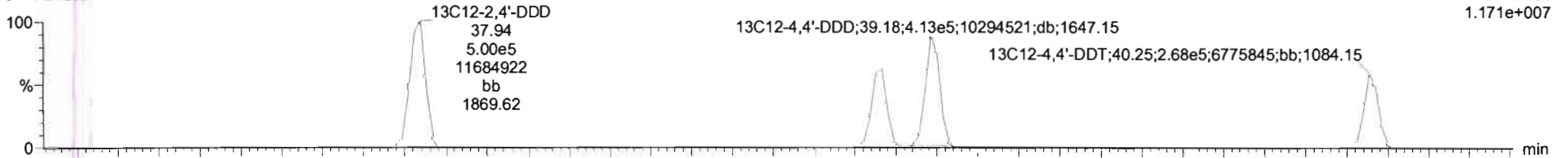
F4:Voltage SIR,EI+
237.0052
8.262e+006



DDD-DDT-isotopes

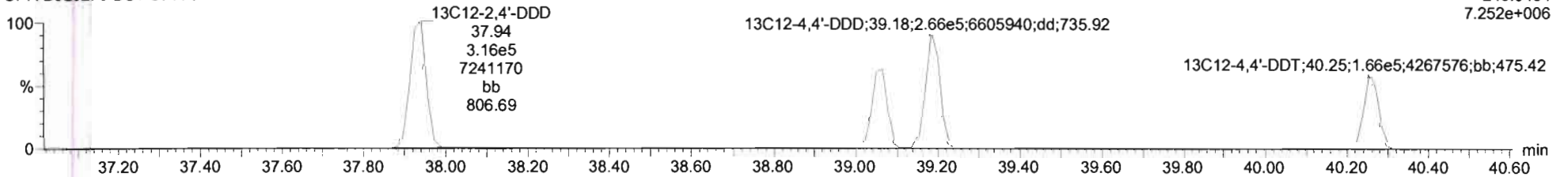
200125K1_12
OPR B9L0270-BS1 OPR 1

F4:Voltage SIR,EI+
247.0484
1.171e+007



200125K1_12
OPR B9L0270-BS1 OPR 1

F4:Voltage SIR,EI+
249.0454
7.252e+006



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

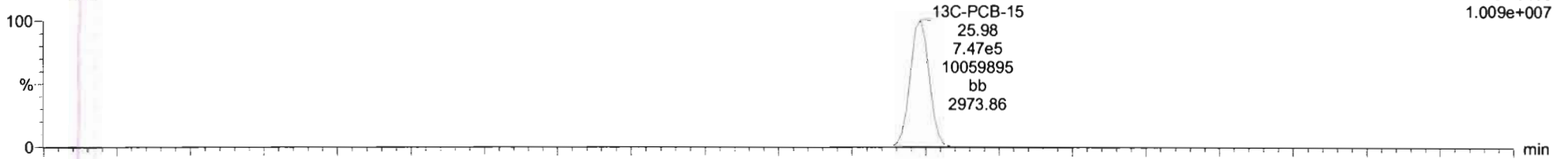
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13C-PCB-15

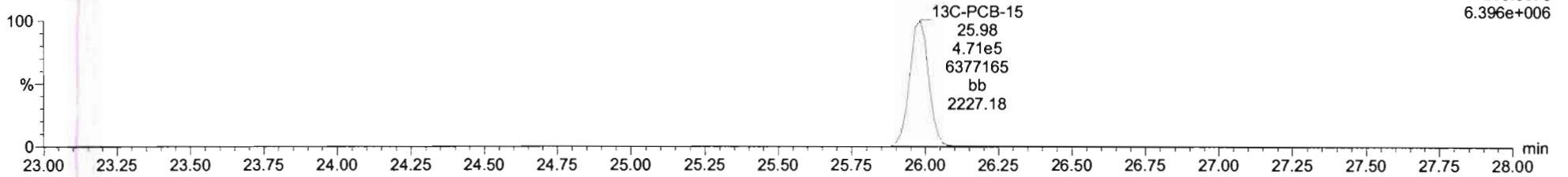
200125K1_12
OPR B9L0270-BS1 OPR 1

F2:Voltage SIR,EI+
234.0406
1.009e+007



200125K1_12
OPR B9L0270-BS1 OPR 1

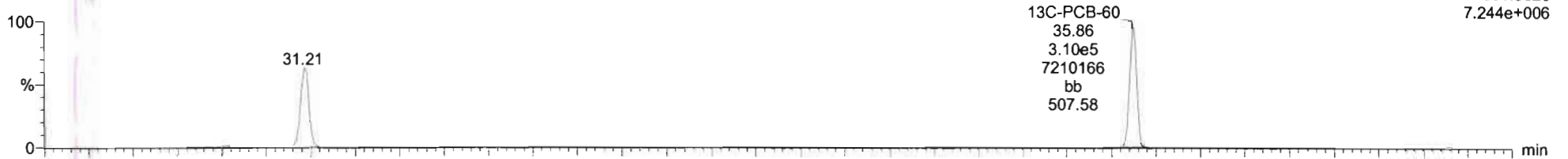
F2:Voltage SIR,EI+
236.0376
6.396e+006



13C-PCB-60

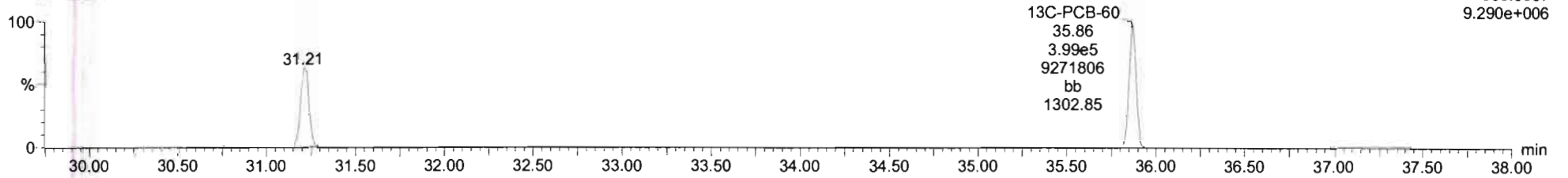
200125K1_12
OPR B9L0270-BS1 OPR 1

F3:Voltage SIR,EI+
301.9626
7.244e+006



200125K1_12
OPR B9L0270-BS1 OPR 1

F3:Voltage SIR,EI+
303.9597
9.290e+006



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

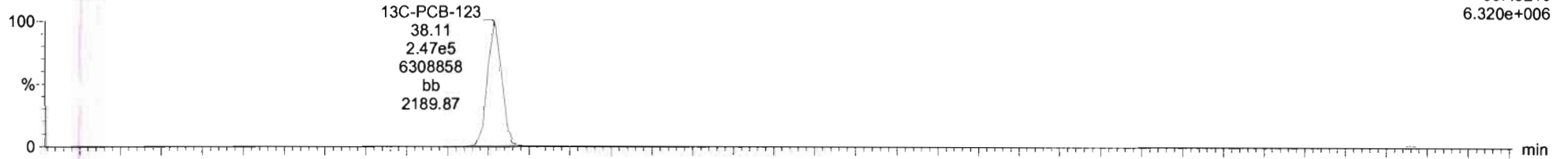
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13C-PCB-123

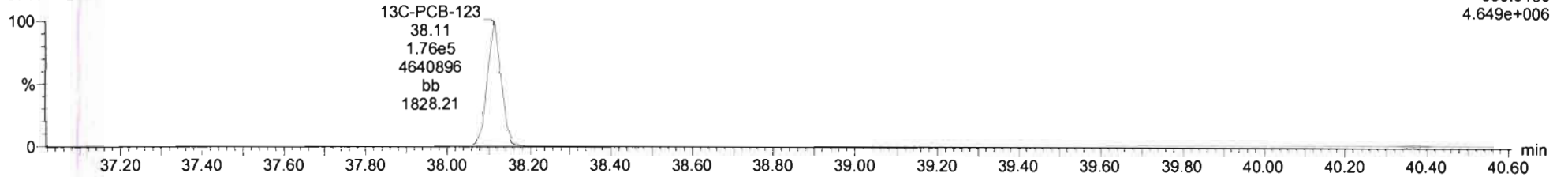
200125K1_12
OPR B9L0270-BS1 OPR 1

F4:Voltage SIR,EI+
337.9210
6.320e+006



200125K1_12
OPR B9L0270-BS1 OPR 1

F4:Voltage SIR,EI+
339.9180
4.649e+006

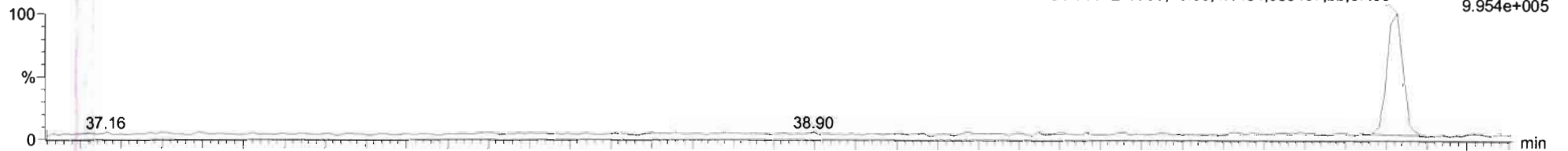


13C-PARLAR 39

200125K1_12
OPR B9L0270-BS1 OPR 1

F4:Voltage SIR,EI+
251.9648
9.954e+005

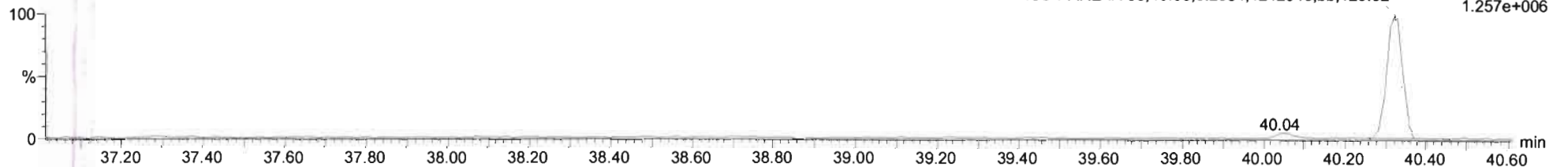
13C-PARLAR 39;40.33;4.14e4;953487;bb;57.33



200125K1_12
OPR B9L0270-BS1 OPR 1

F4:Voltage SIR,EI+
253.9619
1.257e+006

13C-PARLAR 39;40.33;5.25e4;1242045;bb;129.52



Dataset: Untitled

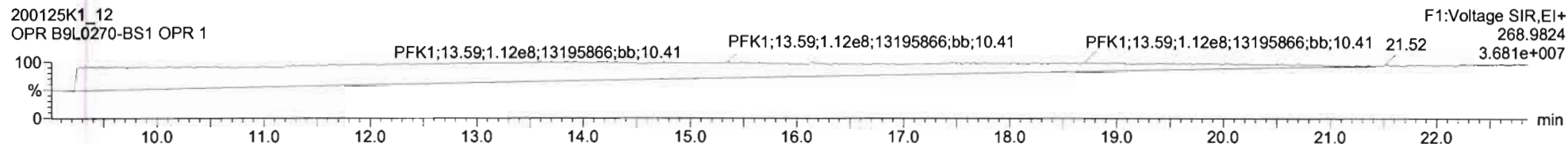
Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

Printed: Monday, January 27, 2020 09:18:52 Pacific Standard Time

Name: 200125K1_12, Date: 25-Jan-2020, Time: 22:09:02, ID: B9L0270-BS1 OPR 1, Description: OPR

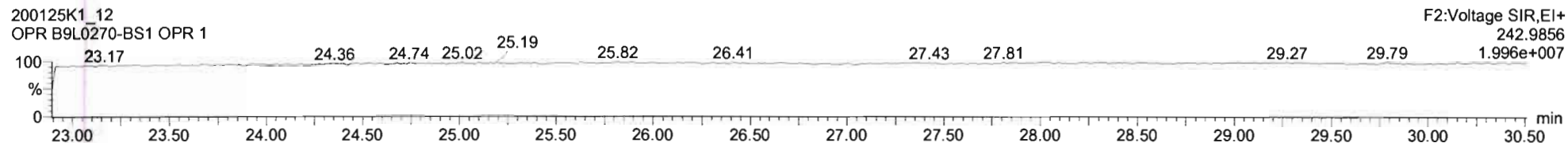
PFK1

200125K1_12
OPR B9L0270-BS1 OPR 1



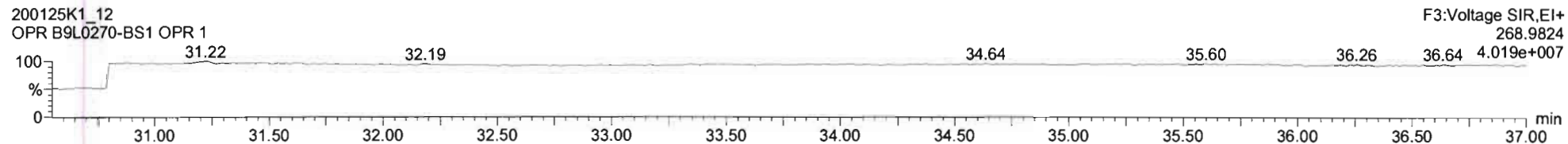
PFK2

200125K1_12
OPR B9L0270-BS1 OPR 1



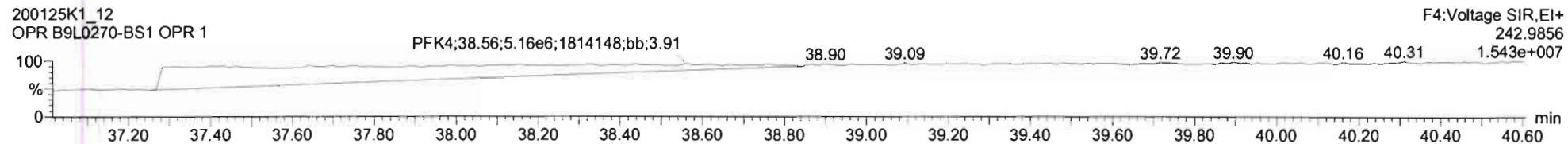
PFK3

200125K1_12
OPR B9L0270-BS1 OPR 1



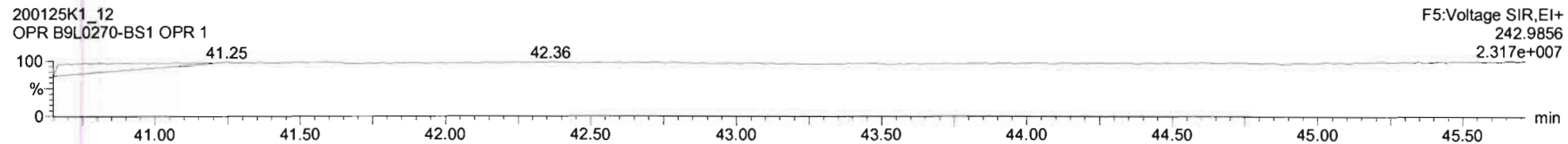
PFK4

200125K1_12
OPR B9L0270-BS1 OPR 1



PFK5

200125K1_12
OPR B9L0270-BS1 OPR 1



Dataset: U:\VG11.PRO\Results\200201K2\200201K2-10.qld

Last Altered: Monday, February 03, 2020 11:31:03 Pacific Standard Time

Printed: Monday, February 03, 2020 11:31:52 Pacific Standard Time

HZ 2/3/2020

C1 02/04/2020

Method: Untitled 25 Jan 2020 13:55:51

Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-1-25-20-LIMITED.cdb 27 Jan 2020 09:02:26

Name: 200201K2_10, Date: 01-Feb-2020, Time: 21:16:02, ID: 1904021-01RE1 PDI-1142RAB-20-30.4-191112 1.16, Description: PDI-1142RAB-20-30.4-191112

	#.Name	Resp	IS Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	RRT Fail	Conc	%Rec	DL	EMPC
1	4 Lindane (gamma-BHC)		1.79e5		NO	0.869	1.007 ✓	26.57			1.001	YES			72.5	
2	9 Aldrin		5.03e4		NO	1.11	1.007	30.80			1.001	YES			112	
3	10 Oxychlordan		2.01e4		NO	1.09	1.007	33.39			1.001	YES			302	
4	13 trans-Chlordane (gam...	3.45e3	1.84e4	1.54	NO	1.18	1.007	35.10	35.09	1.000	1.001	NO	791		207	791
5	14 trans-Nonachlor	2.10e3	2.69e4	0.92	YES	1.08	1.007	35.29	35.28	1.000	1.001	NO	361 ✓		177 ✓	284
6	15 cis-Chlordane	4.03e3	2.69e4	1.40	NO	1.11	1.007	35.77	35.78	1.014	1.014	NO	671		172	671
7	18 2,4'-DDE	4.85e4	6.28e5	1.31	NO	0.984	1.007	35.77	35.79	1.001	1.000	NO	390		23.4	390
8	19 4,4'-DDE	2.18e5	4.21e5	1.34	NO	0.996	1.007	36.86	36.85	1.000	1.000	NO	2580		31.5	2580
9	20 Dieldrin	9.10e3	6.10e4	1.39	NO	1.09	1.007	37.33	37.33	1.000	1.000	NO	678		168	678
10	22 cis-Nonachlor		3.05e4		NO	1.08	1.007	39.00			1.000	YES			282	

Dataset: U:\VG11.PRO\Results\200201K2\200201K2-10.qld

Last Altered: Monday, February 03, 2020 11:31:03 Pacific Standard Time

Printed: Monday, February 03, 2020 11:31:58 Pacific Standard Time

Method: Untitled 25 Jan 2020 13:55:51

Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-1-25-20-LIMITED.cdb 27 Jan 2020 09:02:26

Name: 200201K2_10, Date: 01-Feb-2020, Time: 21:16:02, ID: 1904021-01RE1 PDI-1142RAB-20-30.4-191112 1.16, Description: PDI-1142RAB-20-30.4-191112

	#-Name	Resp	IS Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	RRT Fail	Conc	%Rec	DL	EMPC
1	24 2,4'-DDD	2.86e5	1.75e5	1.54	NO	1.05	1.007	37.94	37.95	1.000	1.000	NO	7720		162	7720
2	25 2,4'-DDT	6.72e4	3.85e5	1.43	NO	1.03	1.007	39.08	39.08	1.000	1.000	NO	842		79.9	842
3	26 4,4'-DDD	1.92e6	4.19e5	1.57	NO	1.12	1.007	39.22	39.21	1.000	1.000	NO	20200		64.7	20200
4	27 4,4'-DDT	1.68e5	3.12e5	1.48	NO	1.13	1.007	40.27	40.27	1.000	1.000	NO	2350		88.6	2350
5	36 13C6-Lindane (gamma)	1.79e5	1.25e6	0.81	NO	0.201	1.007	26.52	26.54	1.019	1.018	NO	3530	71.1	53.4	
6	40 13C12-Aldrin	5.03e4	1.25e6	1.78	NO	0.130	1.007	30.86	30.77	1.181	1.185	NO	1530	30.9	90.5	
7	41 13C10-Oxychlorane	2.01e4	1.25e6	1.51	NO	0.0314	1.007	33.46	33.37	1.281	1.285	NO	2540	51.1	376	

Dataset: U:\VG11.PRO\Results\200201K2\200201K2-10.qld

Last Altered: Monday, February 03, 2020 11:31:03 Pacific Standard Time

Printed: Monday, February 03, 2020 11:32:05 Pacific Standard Time

Method: Untitled 25 Jan 2020 13:55:51

Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-1-25-20-LIMITED.cdb 27 Jan 2020 09:02:26

Name: 200201K2_10, Date: 01-Feb-2020, Time: 21:16:02, ID: 1904021-01RE1 PDI-1142RAB-20-30.4-191112 1.16, Description: PDI-1142RAB-20-30.4-191112

	#-Name	Resp	IS Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	RRT Fail	Conc	%Rec	DL	EMPC
1	43 13C10-trans-Chlordan...	1.84e4	1.25e6	1.59	NO	0.0281	1.007	35.17	35.08	1.347	1.350	NO	2590	52.2	420	
2	44 13C10-trans-Nonachlor	2.69e4	1.25e6	1.69	NO	0.0330	1.007	35.36	35.26	1.354	1.357	NO	3230	65.1	357	
3	46 13C12-2,4'-DDE	6.28e5	1.25e6	1.64	NO	0.765	1.007	35.78	35.76	0.995	0.995	NO	3260	65.6	118	
4	47 13C12-4,4'-DDE	4.21e5	1.25e6	1.64	NO	0.556	1.007	36.86	36.84	1.025	1.025	NO	3010	60.5	162	
5	48 13C12-Dieldrin	6.10e4	1.25e6	1.49	NO	0.0759	1.007	37.37	37.31	1.038	1.040	NO	3190	64.2	286	
6	50 13C10-cis-Nonachlor	3.05e4	1.25e6	1.69	NO	0.0389	1.007	39.07	38.99	1.085	1.087	NO	3110	62.7	559	
7	52 13C12-2,4'-DDD	1.75e5	1.25e6	1.50	NO	0.754	1.007	37.95	37.94	1.457	1.457	NO	921	18.6	155	
8	53 13C12-2,4'-DDT	3.85e5	1.25e6	1.63	NO	0.519	1.007	39.07	39.06	1.500	1.500	NO	2940	59.2	226	
9	54 13C12-4,4'-DDD	4.19e5	1.25e6	1.57	NO	0.662	1.007	39.21	39.20	1.505	1.505	NO	2510	50.6	177	
10	55 13C12-4,4'-DDT	3.12e5	1.25e6	1.72	NO	0.419	1.007	40.26	40.25	1.545	1.546	NO	2950	59.4	280	
11	62 13C-PCB-15	1.25e6	1.25e6	1.57	NO	1.00	1.007	25.96	26.04	1.000	1.000	NO	4960	100	33.7	

Dataset: U:\VG11.PRO\Results\200201K2\200201K2-10.qld

Last Altered: Monday, February 03, 2020 11:20:31 Pacific Standard Time

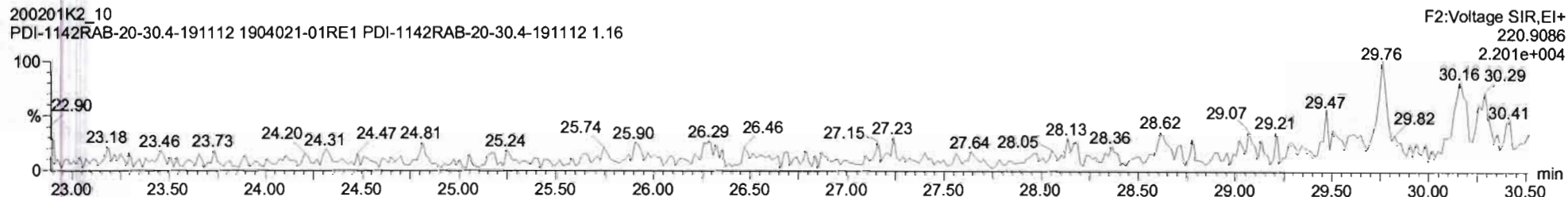
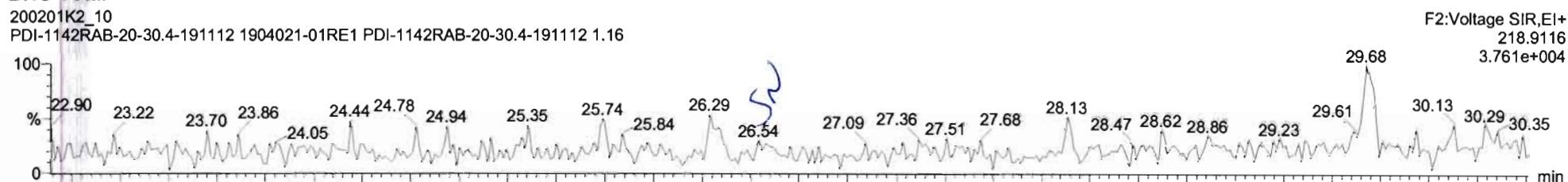
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Method: U:\VG11.PRO\MethDB\1699rrt-01-25-2020.mdb 25 Jan 2020 13:55:51

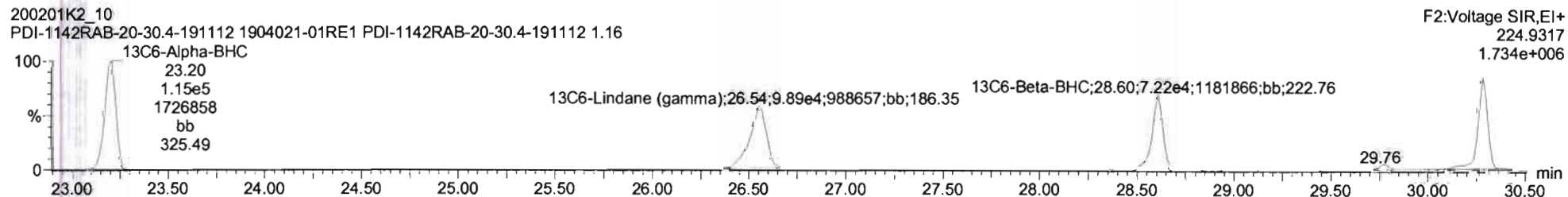
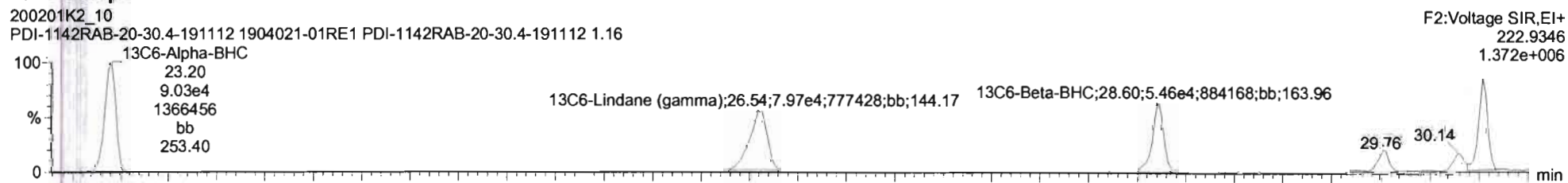
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Name: 200201K2_10, Date: 01-Feb-2020, Time: 21:16:02, ID: 1904021-01RE1 PDI-1142RAB-20-30.4-191112 1.16, Description: PDI-1142RAB-20-30.4-191112

BHC Totals



BHC-isotopes



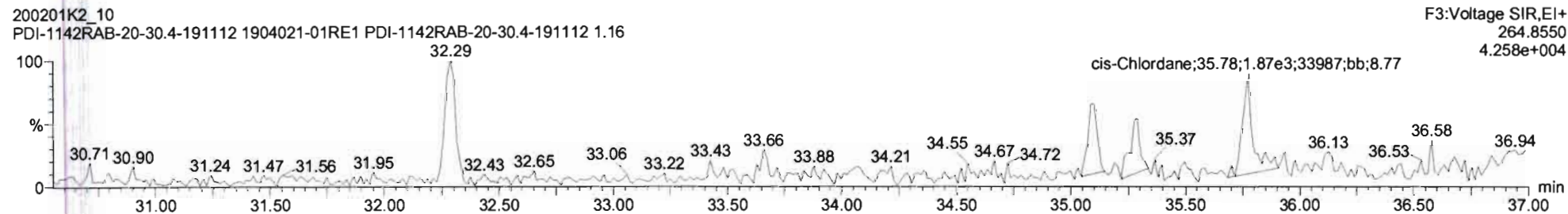
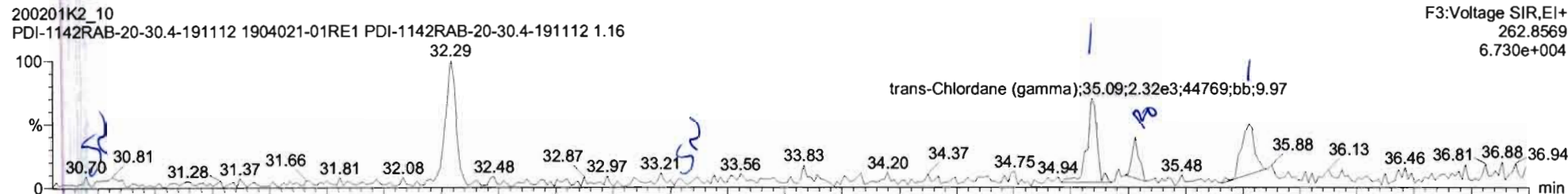
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Last Altered: Monday, February 03, 2020 11:20:31 Pacific Standard Time

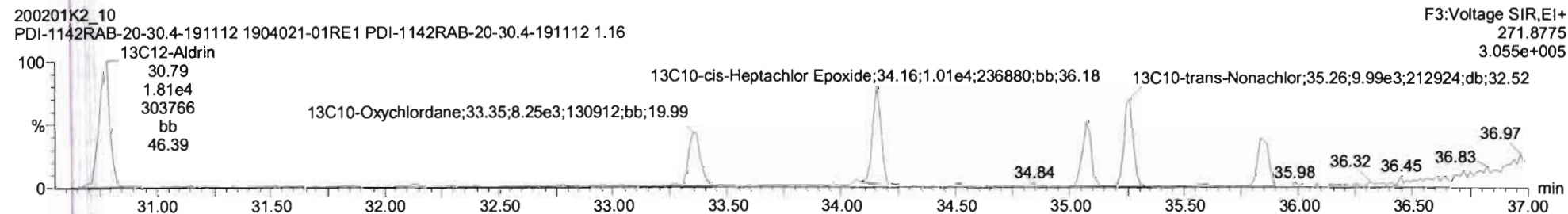
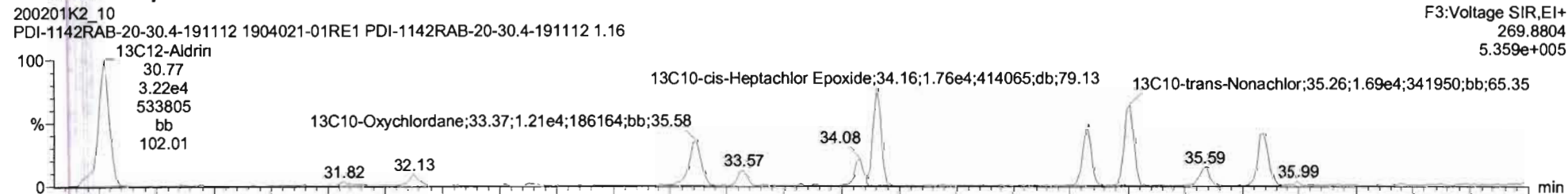
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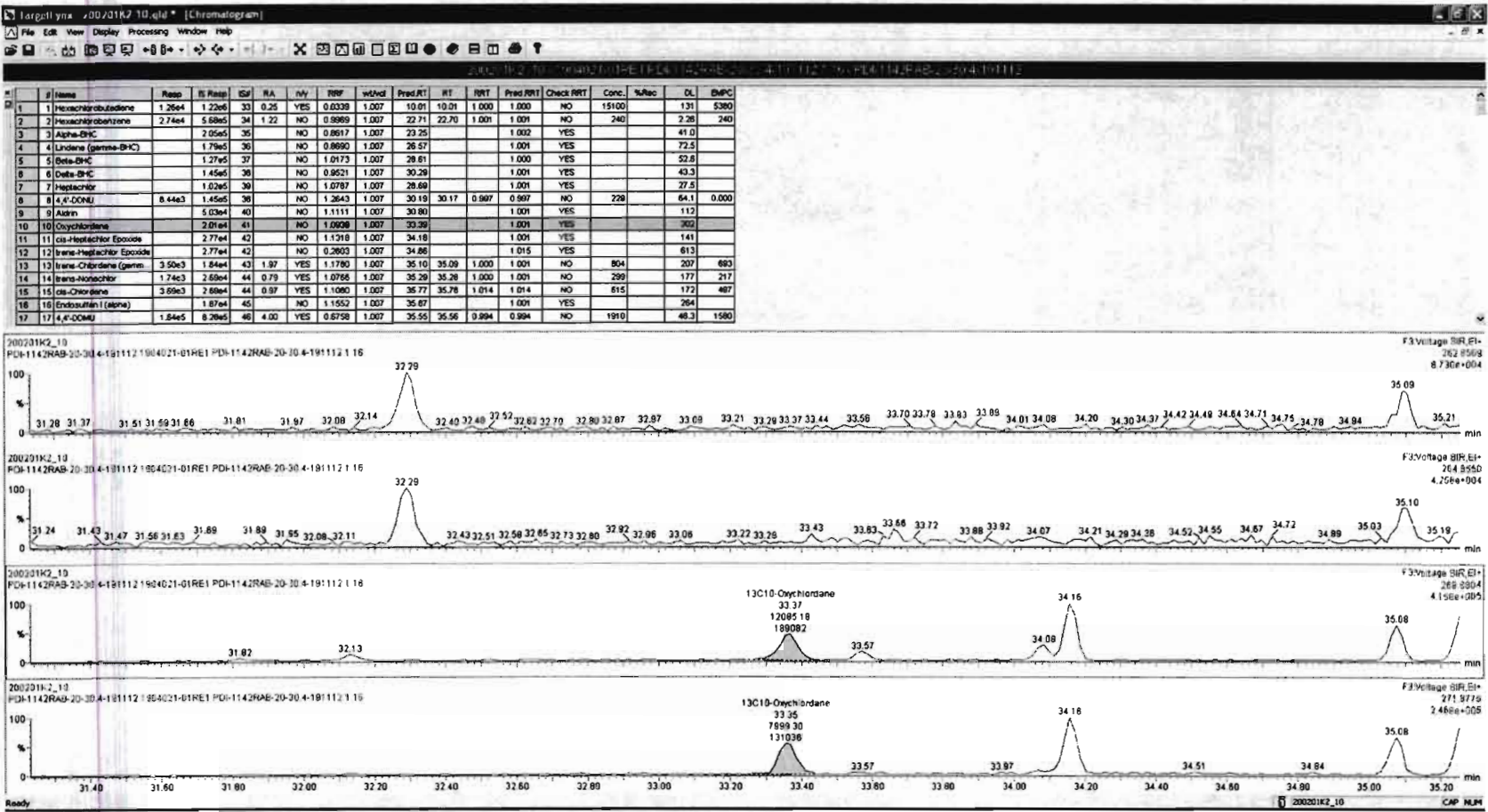
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Aldrin-EI

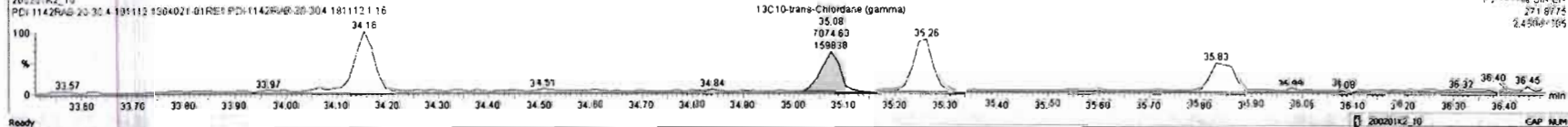
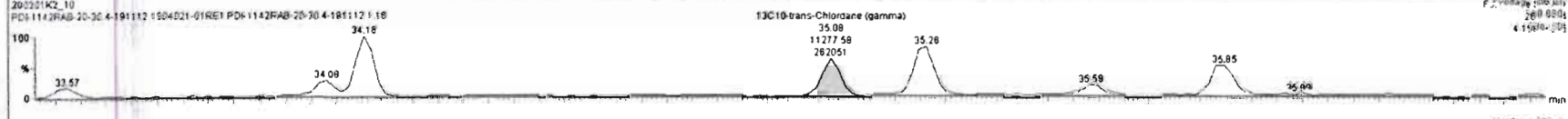
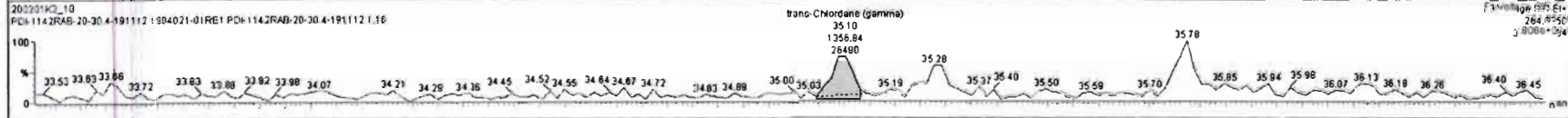
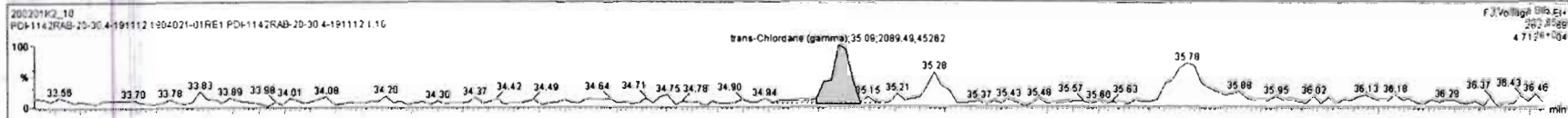


Aldrin-EI-isotopes

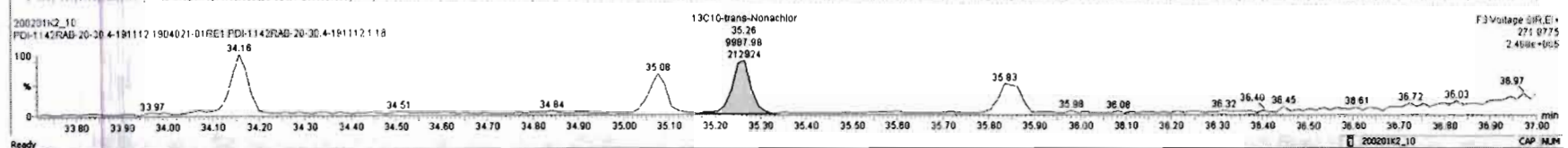
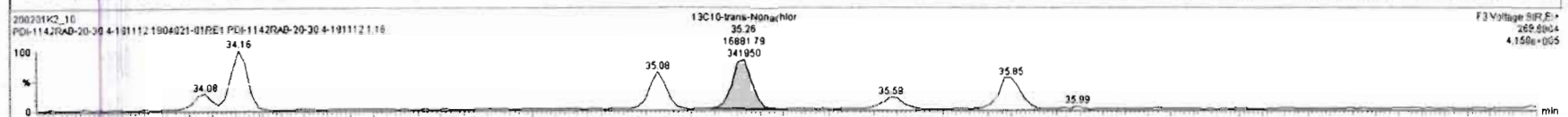
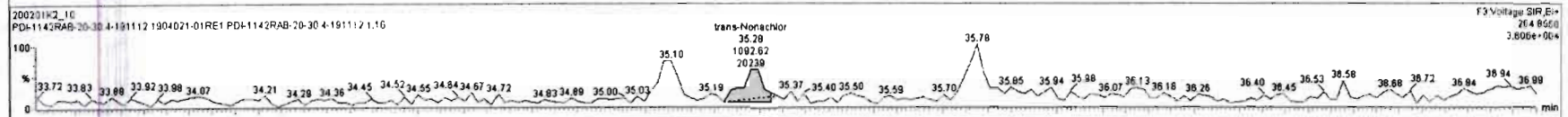
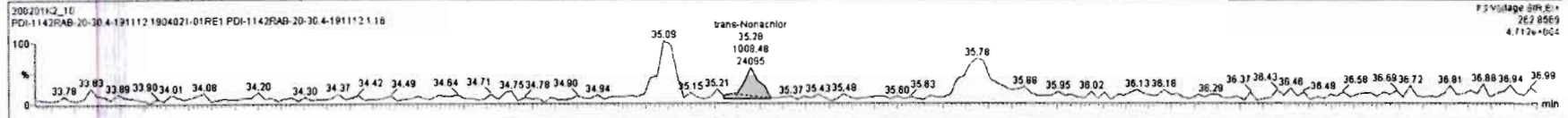




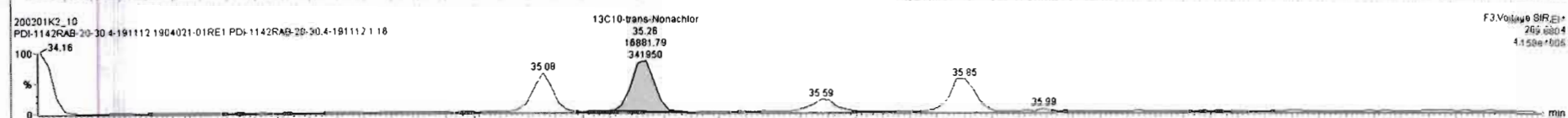
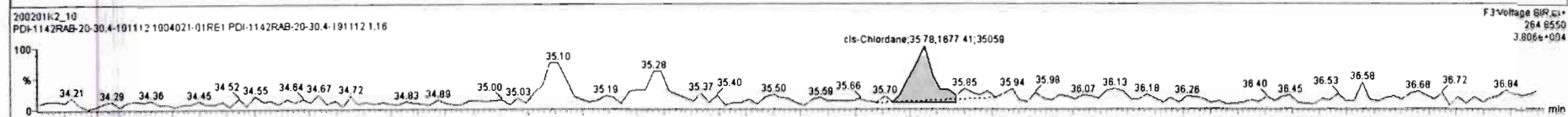
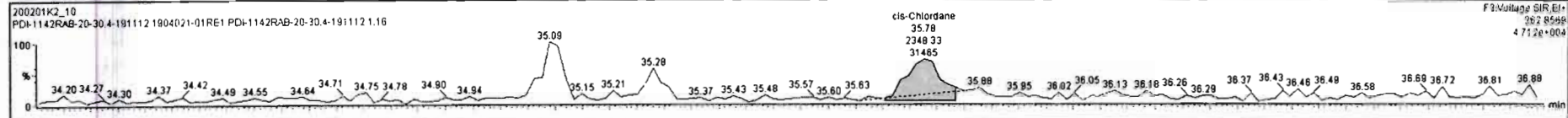
#	Name	Resp	IS Resp	EIF	RA	rvj	RSF	wtVol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	Hexachlorobutadiene	1.26e4	1.22e6	33	0.25	YES	0.0339	1.007	10.01	10.01	1.000	1.000	NO	15100		131	5380
2	Hexachlorobenzene	2.74e4	5.68e5	34	1.22	NO	0.8968	1.007	22.71	22.70	1.001	1.001	NO	240		2.26	240
3	Alpha-BHC		2.05e5	35		NO	0.8617	1.007	23.25			1.002	YES				41.0
4	Lindane (gamma-BHC)		1.73e5	36		NO	0.8680	1.007	26.57			1.001	YES				72.5
5	Beta-BHC		1.27e5	37		NO	1.0773	1.007	28.61			1.000	YES				52.6
6	Delta-BHC		1.45e5	38		NO	0.9821	1.007	33.29			1.001	YES				43.3
7	Heptachlor		1.02e5	39		NO	1.0787	1.007	28.89			1.001	YES				37.5
8	4,4'-DDMU	8.44e3	1.45e5	38		NO	1.2643	1.007	30.19	30.17	0.997	0.997	NO	229		64.1	0.000
9	Alalin		5.03e4	40		NO	1.1111	1.007	30.80			1.001	YES				112
10	Orychlorane		2.01e4	41		NO	1.0839	1.007	33.39			1.001	YES				302
11	cis-Heptachlor Epoxide		2.77e4	42		NO	1.1318	1.007	34.18			1.001	YES				141
12	trans-Heptachlor Epoxide		2.77e4	42		NO	0.2603	1.007	34.66			1.015	YES				613
13	trans-Chlordane (gamma)	3.45e3	1.84e4	43	1.54	NO	1.1780	1.007	35.10	35.09	1.000	1.001	NO	791		207	791
14	trans-Nonachlor	1.74e3	2.69e4	44	0.78	YES	1.0768	1.007	35.29	35.26	1.000	1.001	NO	299		177	217
15	cis-Chlordane	3.69e3	2.69e4	44	0.97	YES	1.1080	1.007	35.77	35.76	1.014	1.014	NO	615		172	497
16	Endosulfan (alpha)		1.87e4	45		NO	1.1552	1.007	35.97			1.001	YES				264
17	4,4'-DDMU	1.64e5	6.28e5	46	4.00	YES	0.6758	1.007	35.56	35.56	0.994	0.994	NO	1910		46.3	1580



#	Name	Resp	IS Resp	ISJ	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	Hexachlorobutadiene	1.26e4	1.22e6	33	0.25	YES	0.0039	1.007	10.91	10.01	1.000	1.000	NO	15100		131	5300
2	Hexachlorobenzene	2.74e4	5.68e5	34	1.22	NO	0.9869	1.007	22.71	22.70	1.001	1.001	NO	240		2.26	240
3	Alpha-BHC		2.05e5	35		NO	0.8617	1.007	23.25				YES				41.0
4	Lindane (gamma-BHC)		1.79e5	36		NO	0.8690	1.007	26.57				YES				72.5
5	Beta-BHC		1.27e5	37		NO	1.0173	1.007	28.51				YES				52.6
6	Delta-BHC		1.45e5	38		NO	0.9521	1.007	30.29				YES				43.3
7	Heptachlor		1.07e5	39		NO	1.0787	1.007	28.89				YES				27.5
8	4,4'-DDNU	8.44e3	1.45e5	38		NO	1.2643	1.007	30.19	30.17	0.997	0.997	NO	229		64.1	0.000
9	Aldrin		5.03e4	40		NO	1.1111	1.007	30.90				YES				112
10	Oryzthione		2.01e4	41		NO	1.0929	1.007	33.38				YES				302
11	cis-Heptachlor Epoxide		2.77e4	42		NO	1.1318	1.007	34.18				YES				141
12	trans-Heptachlor Epoxide		2.77e4	42		NO	0.2603	1.007	34.66				YES				613
13	trans-Chlordane (genm.)	3.45e3	1.84e4	43	1.54	NO	1.1190	1.007	35.10	35.09	1.000	1.001	NO	791		207	791
14	trans-Nonachlor	2.10e3	2.89e4	44	0.82	YES	1.0766	1.007	35.28	35.28	1.000	1.001	NO	301		177	284
15	cis-Chlordane	3.88e3	2.89e4	44	0.87	YES	1.1000	1.007	35.77	35.78	1.014	1.014	NO	615		172	487
16	Endosulfan I (alpha)		1.87e4	45		NO	1.1552	1.007	35.87				YES				264
17	4,4'-DDMU	1.84e5	6.20e5	46	4.00	YES	0.6758	1.007	35.56	35.56	0.994	0.994	NO	1910		46.3	1590



#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wt/vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	Hexachlorobutadiene	1.26e4	1.22e6	33	0.25	YES	0.0339	1.007	10.01	10.01	1.000	1.000	NO	15100		131	5380
2	Hexachlorobenzene	2.74e4	5.68e5	34	1.22	NO	0.9969	1.007	22.71	22.70	1.001	1.001	NO	240		2.28	240
3	Alpha-BHC		2.05e5	35		NO	0.8617	1.007	23.25			1.002	YES				41.0
4	Lindane (gamma-BHC)		1.79e5	36		NO	0.8690	1.007	26.57			1.001	YES				72.5
5	Beta-BHC		1.27e5	37		NO	1.0173	1.007	28.61			1.000	YES				52.6
6	Delta-BHC		1.45e5	38		NO	0.9521	1.007	30.29			1.001	YES				43.3
7	Heptachlor		1.02e5	39		NO	1.0787	1.007	28.89			1.001	YES				27.5
8	4,4'-DDNU	8.44e3	1.45e5	38		NO	1.2643	1.007	30.19	30.17	0.997	0.997	NO	229		84.1	0.000
9	Aldrin		5.03e4	40		NO	1.1111	1.007	30.80			1.001	YES				112
10	Oxychlorane		2.01e4	41		NO	1.0938	1.007	33.39			1.001	YES				302
11	cis-Heptachlor Epoxide		2.77e4	42		NO	1.1318	1.007	34.18			1.001	YES				141
12	trans-Heptachlor Epoxide		2.77e4	42		NO	0.2803	1.007	34.86			1.015	YES				613
13	trans-Chlordane (gamma)	3.45e3	1.84e4	43	1.54	NO	1.1780	1.007	35.10	35.09	1.000	1.001	NO	791		207	791
14	trans-Nonachlor	2.10e3	2.89e4	44	0.92	YES	1.0768	1.007	35.29	35.28	1.000	1.001	NO	361		177	284
15	cis-Chlordane	4.03e3	2.89e4	44	1.40	NO	1.1000	1.007	35.77	35.78	1.014	1.014	NO	871		122	671
16	Endosulfen I (alpha)		1.87e4	45		NO	1.1552	1.007	35.87			1.001	YES				294
17	4,4'-DDMU	1.84e5	8.26e5	46	4.00	YES	0.6758	1.007	35.55	35.56	0.994	0.994	NO	1910		46.3	1580



Dataset: U:\VG11.PRO\Results\200201K2\200201K2-10.qld

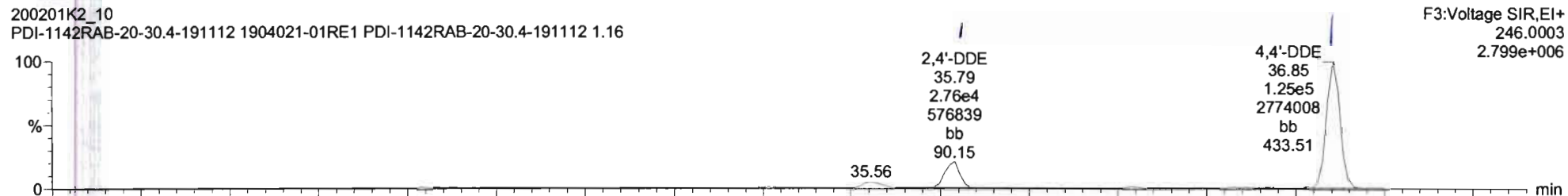
Last Altered: Monday, February 03, 2020 11:20:31 Pacific Standard Time

Printed: Monday, February 03, 2020 11:21:36 Pacific Standard Time

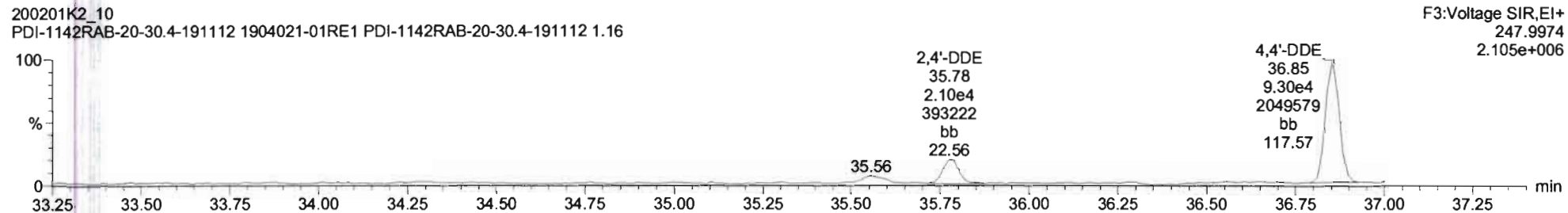
Name: 200201K2_10, Date: 01-Feb-2020, Time: 21:16:02, ID: 1904021-01RE1 PDI-1142RAB-20-30.4-191112 1.16, Description: PDI-1142RAB-20-30.4-191112

DDMU-DDE

200201K2_10
PDI-1142RAB-20-30.4-191112 1904021-01RE1 PDI-1142RAB-20-30.4-191112 1.16

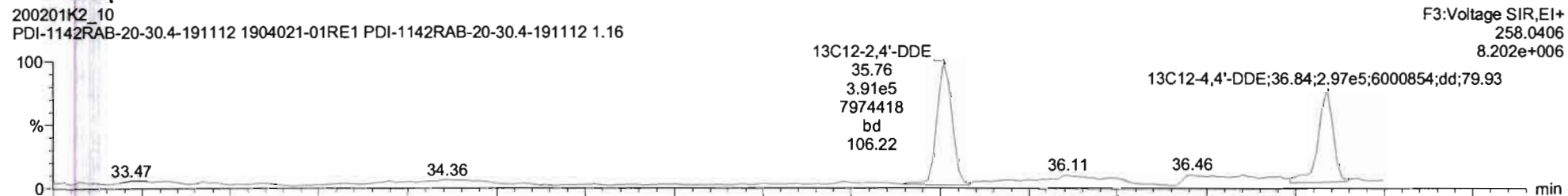


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PDI-1142RAB-20-30.4-191112 1904021-01RE1 PDI-1142RAB-20-30.4-191112 1.16

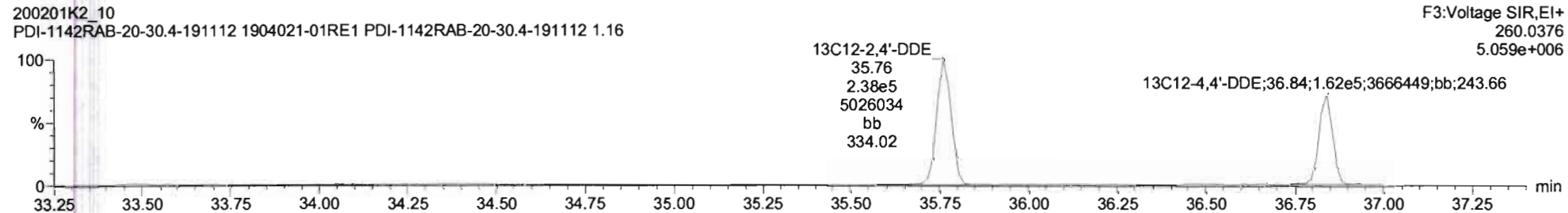


DDE-isotopes

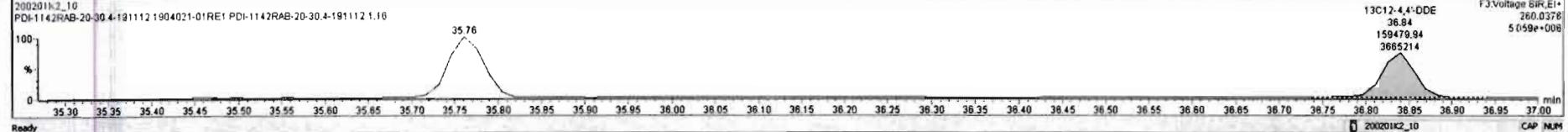
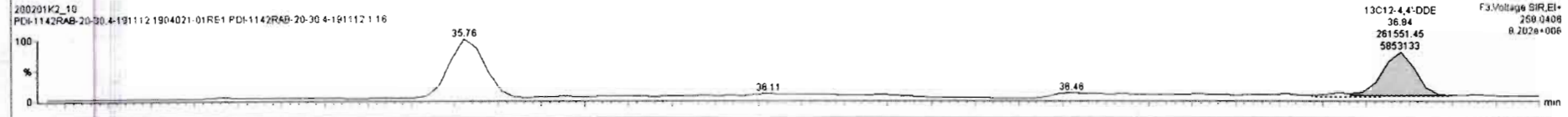
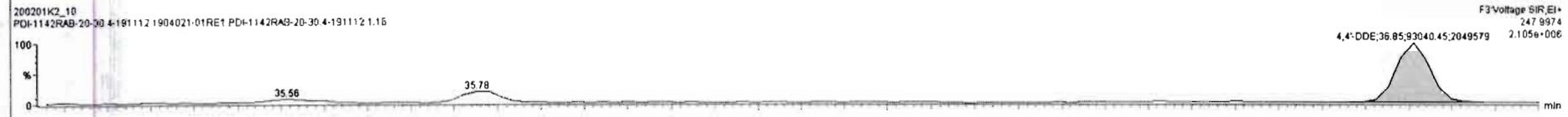
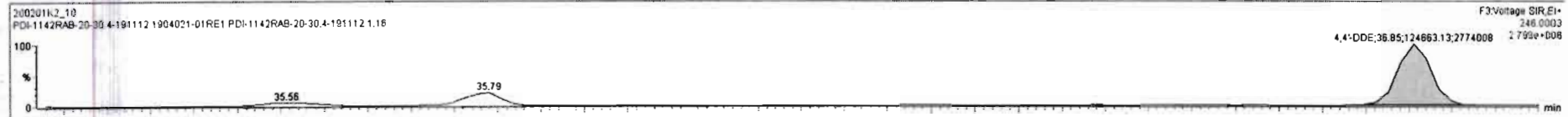
200201K2_10
PDI-1142RAB-20-30.4-191112 1904021-01RE1 PDI-1142RAB-20-30.4-191112 1.16



200201K2_10
PDI-1142RAB-20-30.4-191112 1904021-01RE1 PDI-1142RAB-20-30.4-191112 1.16



#	Name	Resp	IS Resp	IS#	RA	rv	RRF	wt/mol	Pred.RT	RT	RR1	Pred.RR1	Check RRT	Conc.	%Rec	DL	EMPC
1	Hexachlorobutadiene	1.26e4	1.22e6	33	0.25	YES	0.0338	1.007	10.01	10.01	1.000	1.000	NO	15100		131	5380
2	Hexachlorobenzene	2.74e4	5.68e5	34	1.22	NO	0.9869	1.007	22.71	22.70	1.001	1.001	NO	240		226	240
3	Alpha-BHC		2.05e5	35		NO	0.8617	1.007	23.25			1.002	YES			41.0	
4	Lindane (gamma-BHC)		1.79e5	36		NO	0.8690	1.007	26.57			1.001	YES			72.5	
5	Beta-BHC		1.27e5	37		NO	1.0173	1.007	29.61			1.000	YES			52.6	
6	Delta-BHC		1.45e5	38		NO	0.8521	1.007	30.29			1.001	YES			43.3	
7	Heptachlor		1.02e5	39		NO	1.0787	1.007	28.88			1.001	YES			27.5	
8	4,4'-DDMU	8.44e3	1.45e5	38		NO	1.2643	1.007	30.19	30.17	0.997	0.997	NO	229		64.1	0.000
9	Aldrin		5.03e4	40		NO	1.1111	1.007	30.80			1.001	YES			112	
10	Oxychlorodane		2.01e4	41		NO	1.0939	1.007	33.39			1.001	YES			302	
11	cis-Heptachlor Epoxide		2.77e4	42		NO	1.1318	1.007	34.18			1.001	YES			141	
12	trans-Heptachlor Epoxide		2.77e4	42		NO	0.2603	1.007	34.68			1.015	YES			613	
13	trans-Chlordane (gamma)	3.45e3	1.84e4	43	1.54	NO	1.1780	1.007	35.10	35.09	1.000	1.001	NO	791		207	791
14	trans-Nonachlor	2.10e3	2.89e4	44	0.92	YES	1.0766	1.007	35.29	35.28	1.000	1.001	NO	361		177	284
15	cis-Chlordane	4.03e3	2.89e4	44	1.40	NO	1.1080	1.007	35.77	35.78	1.014	1.014	NO	671		172	671
16	Endosulfan I (alpha)		1.87e4	45		NO	1.1552	1.007	35.87			1.001	YES			264	
17	4,4'-DDMU	1.84e5	6.26e5	46	4.00	YES	0.6758	1.007	35.55	35.56	0.994	0.994	NO	1910		46.3	1580



Dataset: U:\VG11.PRO\Results\200201K2\200201K2-10.qld

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Printed: Monday, February 03, 2020 11:21:36 Pacific Standard Time

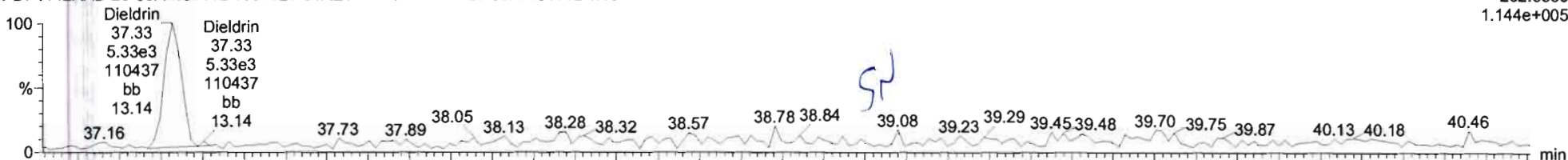
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Dieldrin-EII

200201K2_10

PDI-1142RAB-20-30.4-191112 1904021-01RE1 PDI-1142RAB-20-30.4-191112 1.16

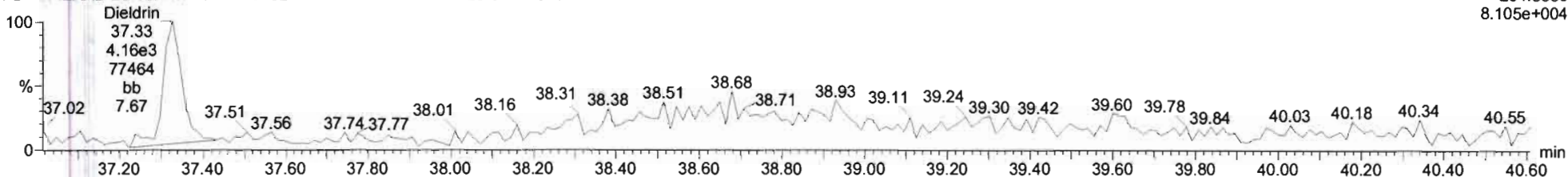
F4:Voltage SIR,EI+
262.8569
1.144e+005



200201K2_10

PDI-1142RAB-20-30.4-191112 1904021-01RE1 PDI-1142RAB-20-30.4-191112 1.16

F4:Voltage SIR,EI+
264.8550
8.105e+004

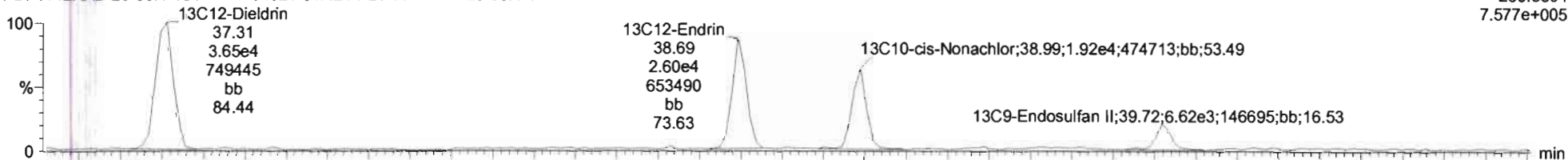


Dieldrin-EII-isotopes

200201K2_10

PDI-1142RAB-20-30.4-191112 1904021-01RE1 PDI-1142RAB-20-30.4-191112 1.16

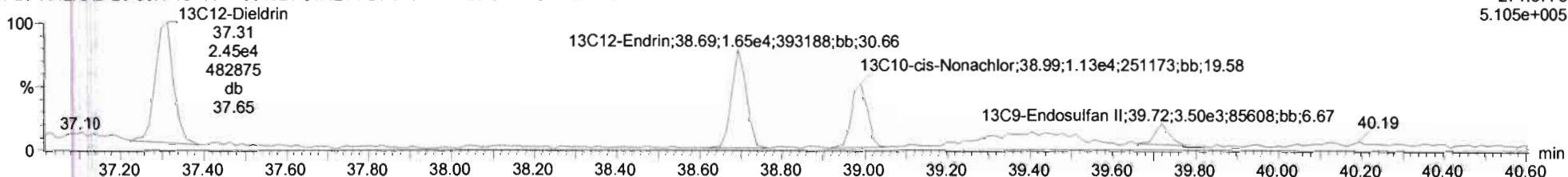
F4:Voltage SIR,EI+
269.8804
7.577e+005

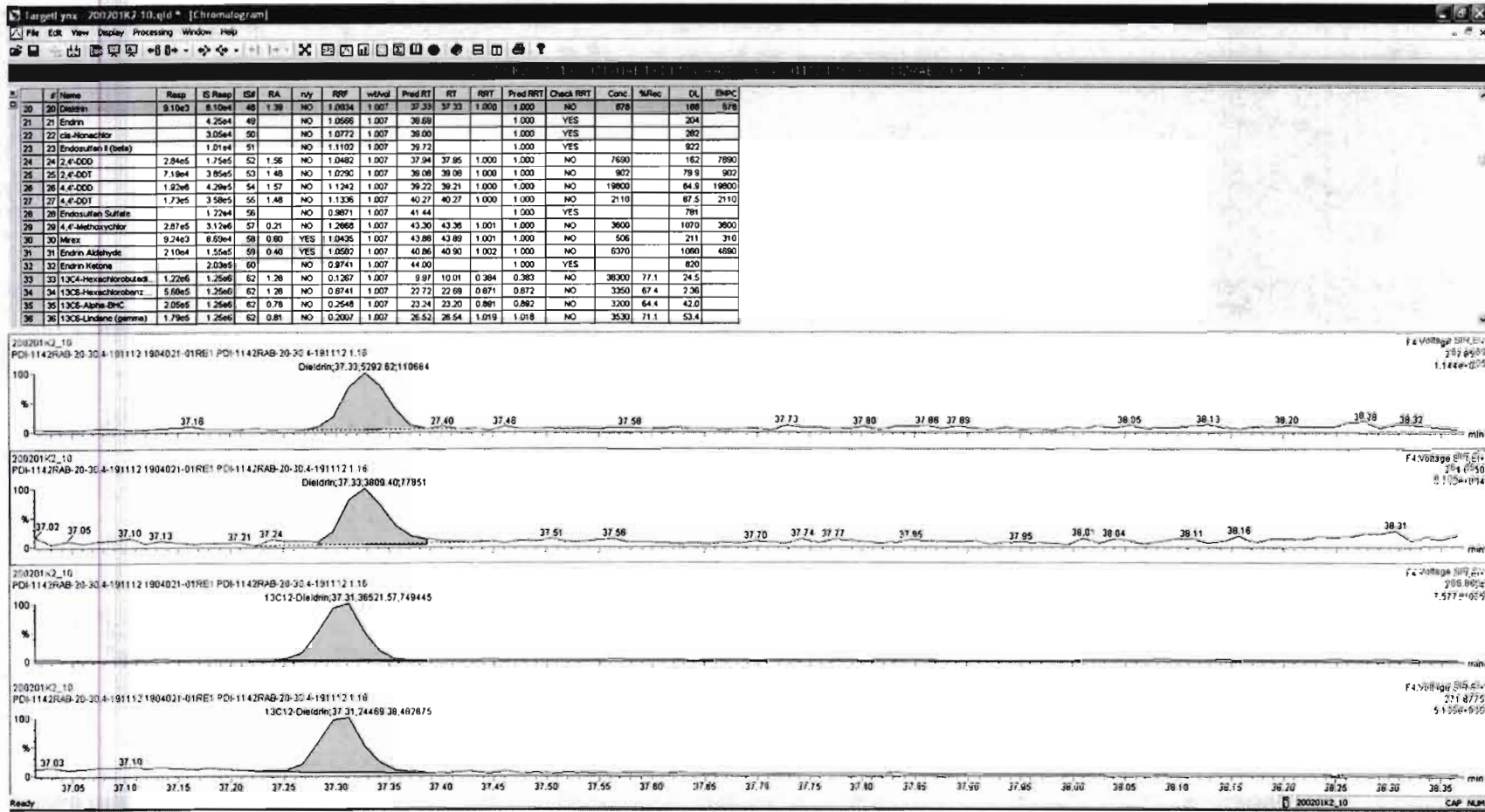


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PDI-1142RAB-20-30.4-191112 1904021-01RE1 PDI-1142RAB-20-30.4-191112 1.16

F4:Voltage SIR,EI+
271.8775
5.105e+005





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Last Altered: Monday, February 03, 2020 11:20:31 Pacific Standard Time

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Name: 200201K2_10, Date: 01-Feb-2020, Time: 21:16:02, ID: 1904021-01RE1 PDI-1142RAB-20-30.4-191112 1.16, Description: PDI-1142RAB-20-30.4-191112

DDD-DDT

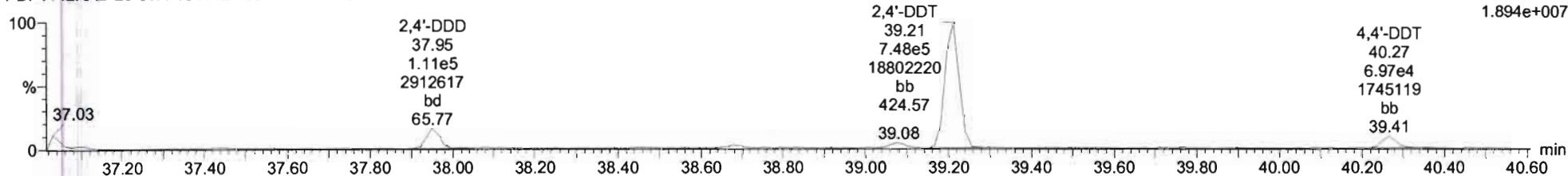
200201K2_10
PDI-1142RAB-20-30.4-191112 1904021-01RE1 PDI-1142RAB-20-30.4-191112 1.16

F4:Voltage SIR,EI+
235.0081
2.997e+007



200201K2_10
PDI-1142RAB-20-30.4-191112 1904021-01RE1 PDI-1142RAB-20-30.4-191112 1.16

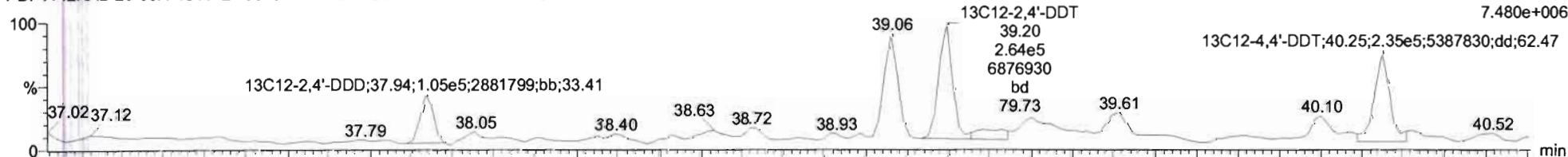
F4:Voltage SIR,EI+
237.0052
1.894e+007



DDD-DDT-isotopes

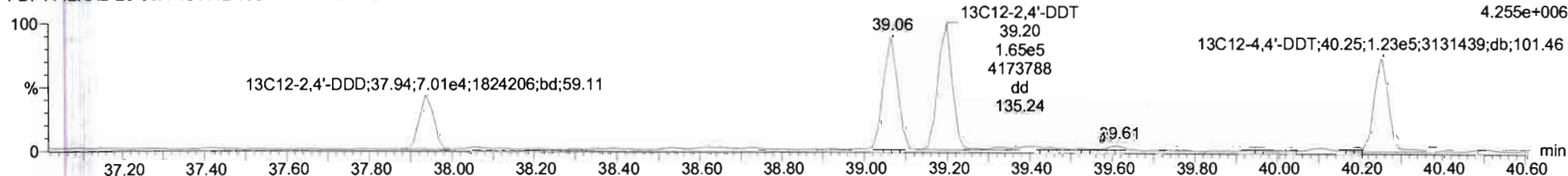
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PDI-1142RAB-20-30.4-191112 1904021-01RE1 PDI-1142RAB-20-30.4-191112 1.16

F4:Voltage SIR,EI+
247.0484
7.480e+006

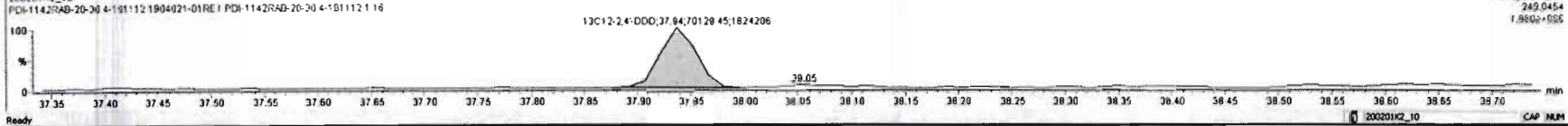
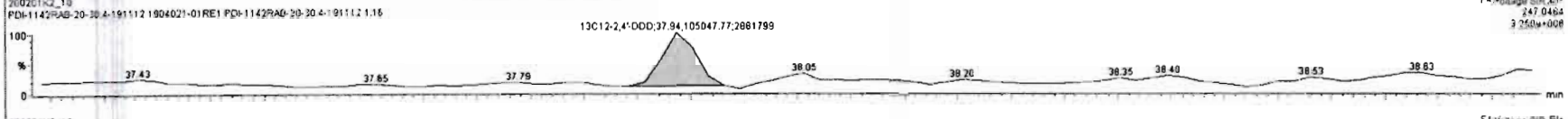
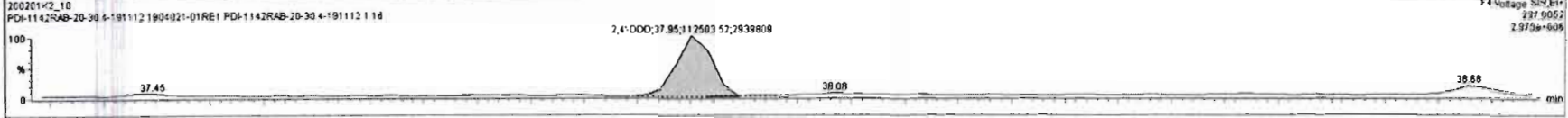
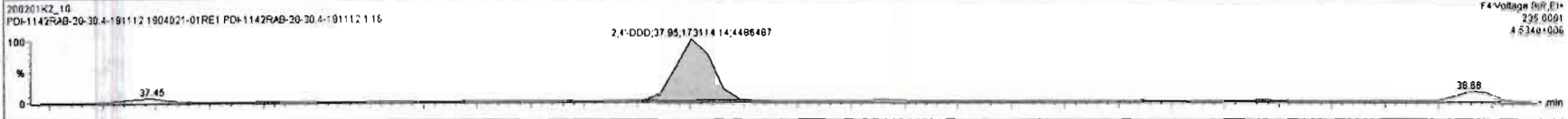


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PDI-1142RAB-20-30.4-191112 1904021-01RE1 PDI-1142RAB-20-30.4-191112 1.16

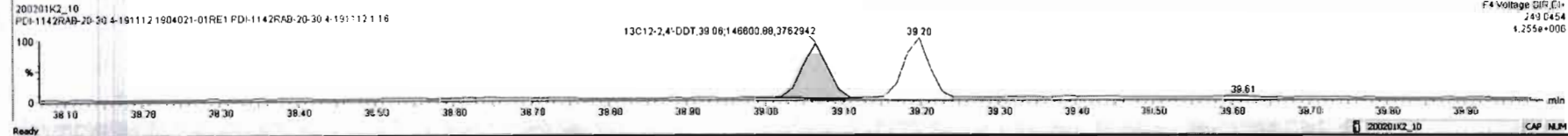
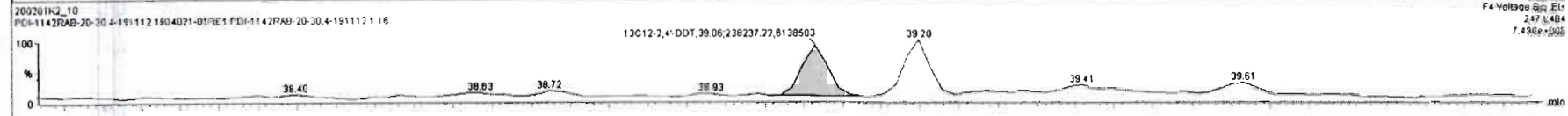
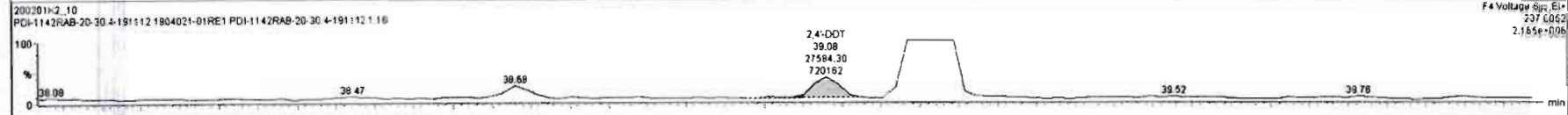
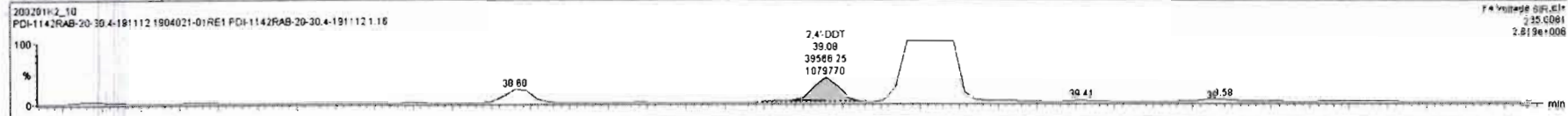
F4:Voltage SIR,EI+
249.0454
4.255e+006



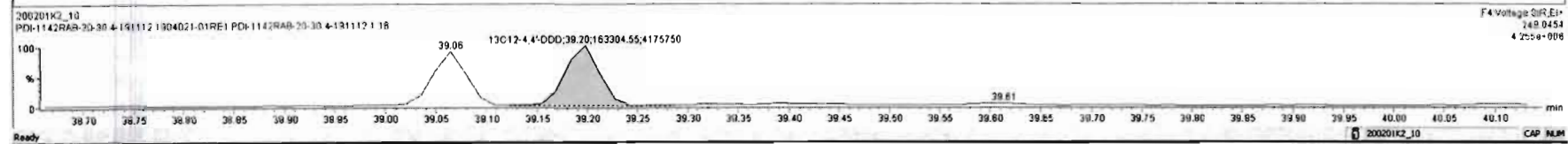
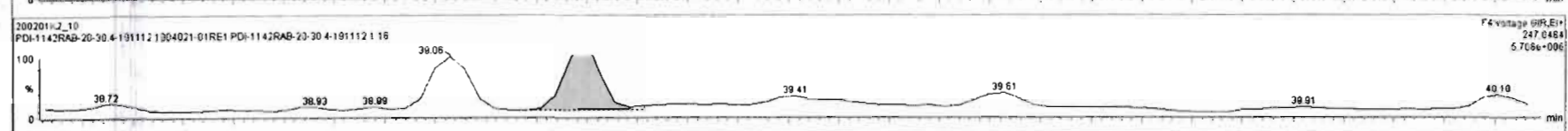
#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wtVol	Prod RT	RT	PRT	Pred PRT	Check PRT	Conc	%Rec	DL	EMPC
20	Dieldrin	9.10e3	6.10e4	48	1.29	NO	1.0934	1.007	37.33	37.33	1.000	1.000	NO	678		168	678
21	Endrin		4.25e4	49		NO	1.0566	1.007	38.89			1.000	YES				204
22	cis-Nonachlor		3.05e4	50		NO	1.0772	1.007	38.00			1.000	YES				287
23	Endosulfan II (beta)		1.01e4	51		NO	1.1102	1.007	39.72			1.000	YES				922
24	2,4'-DDD	2.86e5	1.75e5	52	1.54	NO	1.0482	1.007	37.94	37.95	1.000	1.000	NO	7720		163	7720
25	2,4'-DDT	7.19e4	3.85e5	53	1.40	NO	1.0280	1.007	38.09	38.08	1.000	1.000	NO	902		79.9	902
26	4,4'-DDD	1.92e6	4.29e5	54	1.57	NO	1.1242	1.007	39.22	39.21	1.000	1.000	NO	19800		64.9	19800
27	4,4'-DDT	1.73e5	3.58e5	55	1.48	NO	1.1336	1.007	40.27	40.27	1.000	1.000	NO	2110		87.5	2110
28	Endosulfan Sulfate		1.22e4	56		NO	0.9871	1.007	41.44			1.000	YES				781
29	4,4'-Methoxychlor	2.87e5	3.12e6	57	0.21	NO	1.2668	1.007	43.30	43.36	1.001	1.000	NO	3600		1070	3600
30	lindax	9.24e3	8.89e4	58	0.60	YES	1.0435	1.007	43.86	43.89	1.001	1.000	NO	506		211	310
31	Endrin Aldehyde	2.10e4	1.55e5	59	0.40	YES	1.0582	1.007	40.86	40.90	1.002	1.000	NO	6370		1060	4690
32	Endrin Ketone		2.03e5	60		NO	0.9741	1.007	44.00			1.000	YES				820
33	13C4-Hexachlorobutadiene	1.22e6	1.25e6	62	1.28	NO	0.1267	1.007	9.97	10.01	0.384	0.383	NO	36300	77.1	24.5	
34	13C6-Hexachlorobenzene	5.68e5	1.25e6	62	1.28	NO	0.6741	1.007	22.72	22.68	0.871	0.872	NO	3350	67.4	2.36	
35	13C8-Alpha-BHC	2.05e5	1.25e6	62	0.78	NO	0.2548	1.007	23.24	23.20	0.891	0.892	NO	3200	64.4	42.0	
36	13C8-Lindane (gamma)	1.79e5	1.25e6	62	0.81	NO	0.2007	1.007	26.52	26.54	1.019	1.018	NO	3530	71.1	53.4	

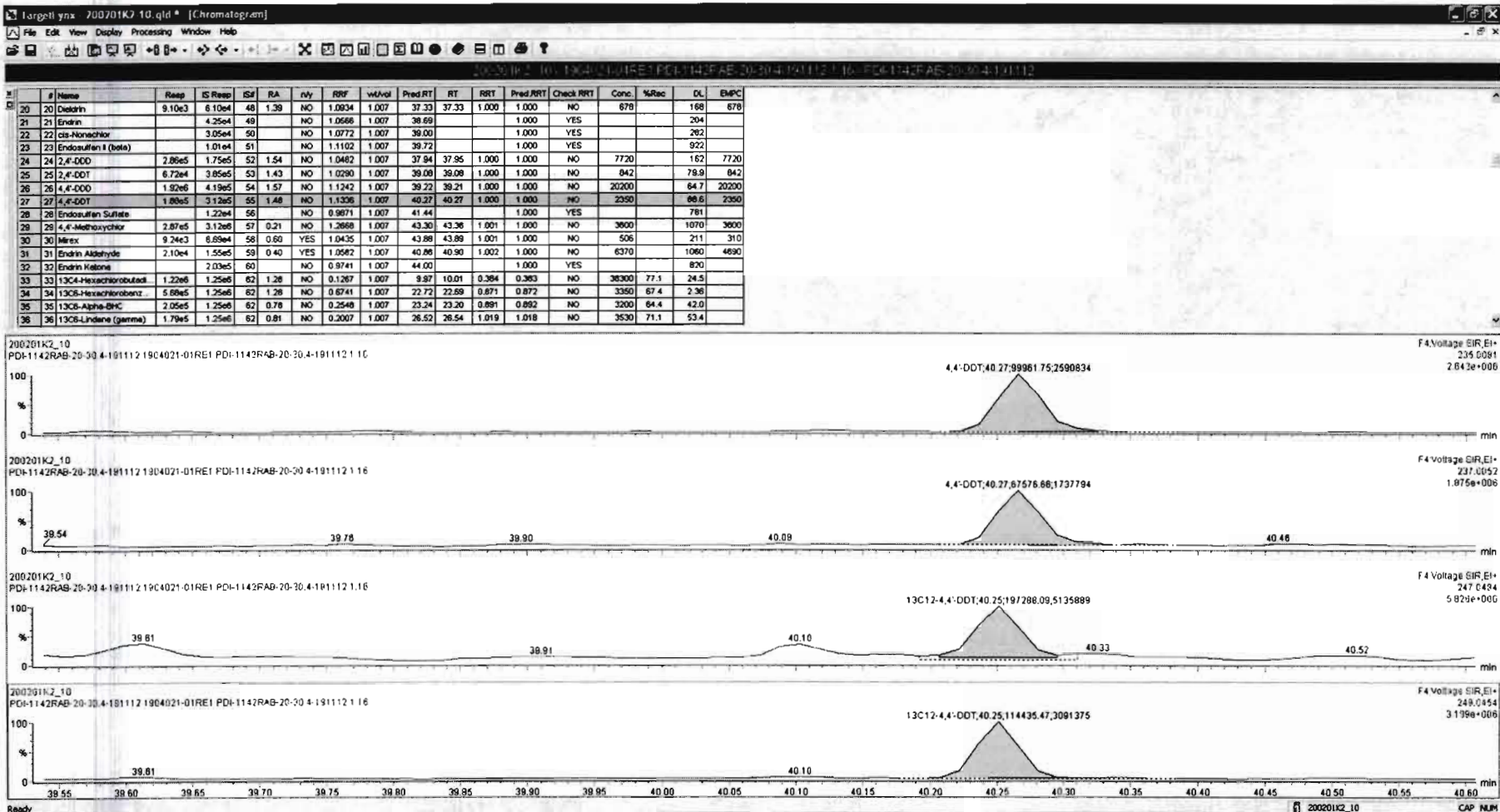


#	Name	Resp	IS Resp	ISF	RA	rvj	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	Check RRT	Conc.	%Rec	DL	EMPC
20	Dieldrin	9.10e3	6.10e4	48	1.39	NO	1.0934	1.007	37.33	37.33	1.000	1.000	NO	578		168	878
21	Endrin		4.25e4	49		NO	1.0556	1.007	36.69			1.000	YES				204
22	cis-Nonachlor		3.05e4	50		NO	1.0772	1.007	39.00			1.000	YES				287
23	Endosulfan II (beta)		1.01e4	51		NO	1.1102	1.007	39.72			1.000	YES				922
24	2,4'-DDD	2.86e5	1.75e5	52	1.54	NO	1.0482	1.007	37.94	37.95	1.000	1.000	NO	7720		162	7720
25	2,4'-DDT	8.72e4	3.85e5	53	1.43	NO	1.0290	1.007	39.08	39.08	1.000	1.000	NO	842		79.9	842
26	4,4'-DDD	1.32e6	4.29e5	54	1.57	NO	1.1242	1.007	39.22	39.21	1.000	1.000	NO	19900		64.9	19900
27	4,4'-DDT	1.73e5	3.58e5	55	1.48	NO	1.1336	1.007	40.27	40.27	1.000	1.000	NO	2110		87.5	2110
28	Endosulfan Sulfate		1.22e4	56		NO	0.9871	1.007	41.44			1.000	YES				781
29	4,4'-Methoxychlor	2.87e5	3.12e6	57	0.21	NO	1.2668	1.007	43.30	43.36	1.001	1.000	NO	3600		1070	3600
30	Mirex	9.24e3	8.69e4	58	0.80	YES	1.0435	1.007	43.88	43.89	1.001	1.000	NO	506		21.1	310
31	Endrin Aldehyde	2.10e4	1.55e5	59	0.40	YES	1.0582	1.007	40.86	40.90	1.002	1.000	NO	6370		1060	4690
32	Endrin Ketone		2.03e5	60		NO	0.9741	1.007	44.00			1.000	YES				820
33	13C4-Hexachlorobutadi...	1.22e6	1.25e6	62	1.28	NO	0.1267	1.007	9.87	10.01	0.384	0.383	NO	36300	77.1	24.5	
34	13C6-Hexachlorobenz...	5.88e5	1.25e6	62	1.28	NO	0.6741	1.007	22.72	22.89	0.871	0.872	NO	3350	67.4	2.36	
35	13C6-Alpha-BHC	2.05e5	1.25e6	62	0.78	NO	0.2548	1.007	23.24	23.20	0.891	0.882	NO	3200	64.4	42.0	
36	13C6-Lindane (gamma)	1.79e5	1.25e6	62	0.81	NO	0.2007	1.007	26.52	26.54	1.019	1.018	NO	3530	71.1	53.4	



#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wtAve	Pred.RT	RT	RRT	Pred.RRT	Check.RRT	Conc	%Rec	DL	EMPC
20	Dieldrin	9.10e3	6.10e4	48	1.38	NO	1.0834	1.007	37.33	37.33	1.000	1.000	NO	678		168	678
21	Endrin		4.25e4	49		NO	1.0566	1.007	38.69			1.000	YES			204	
22	cis-Nonachlor		3.05e4	50		NO	1.0772	1.007	39.00			1.000	YES			262	
23	Endosulfan I (beta)		1.01e4	51		NO	1.1102	1.007	39.72			1.000	YES			922	
24	2,4'-DDD	2.86e5	1.75e5	52	1.54	NO	1.0482	1.007	37.94	37.95	1.000	1.000	NO	77.20		162	7720
25	2,4'-DDT	6.72e4	3.85e5	53	1.43	NO	1.0290	1.007	39.08	39.08	1.000	1.000	NO	842		79.9	842
26	4,4'-DDD	1.82e6	4.19e5	54	1.57	NO	1.1242	1.007	39.22	39.21	1.000	1.000	NO	20300		84.7	20300
27	4,4'-DDT	1.73e5	3.58e5	55	1.48	NO	1.1336	1.007	40.27	40.27	1.000	1.000	NO	2110		87.5	2110
28	Endosulfan Sulfate		1.22e4	56		NO	0.9871	1.007	41.44			1.000	YES			781	
29	4,4'-Methoxychlor	2.87e5	3.12e6	57	0.21	NO	1.2688	1.007	43.30	43.36	1.001	1.000	NO	3600		1070	3600
30	Mirex	9.24e3	8.89e4	58	0.80	YES	1.0435	1.007	43.88	43.89	1.001	1.000	NO	508		211	310
31	Endrin Aldehyde	2.10e4	1.55e5	59	0.40	YES	1.0582	1.007	40.86	40.90	1.002	1.000	NO	6370		1063	4690
32	Endrin Ketone		2.03e5	60		NO	0.9741	1.007	44.00			1.000	YES			600	
33	13C4-Hexachlorobutadi...	1.22e6	1.25e6	62	1.28	NO	0.1267	1.007	9.97	10.01	0.304	0.383	NO	38300	77.1	34.5	
34	13C6-Hexachlorobenz...	5.68e5	1.25e6	62	1.28	NO	0.6741	1.007	22.72	22.69	0.871	0.872	NO	3350	67.4	2.36	
35	13C6-Alpha-BHC	2.05e5	1.25e6	62	0.78	NO	0.2548	1.007	23.24	23.20	0.881	0.882	NO	3200	64.4	42.0	
36	13C6-Lindane (gamma)	1.78e5	1.25e6	62	0.81	NO	0.2007	1.007	26.52	26.54	1.019	1.018	NO	3530	71.1	53.4	





Dataset: U:\VG11.PRO\Results\200201K2\200201K2-10.qld

Last Altered: Monday, February 03, 2020 11:20:31 Pacific Standard Time

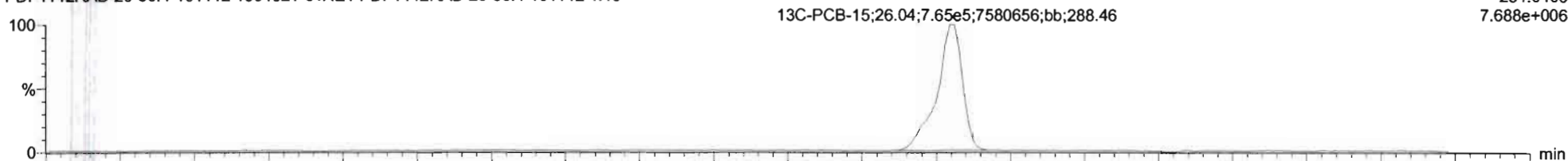
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13C-PCB-15

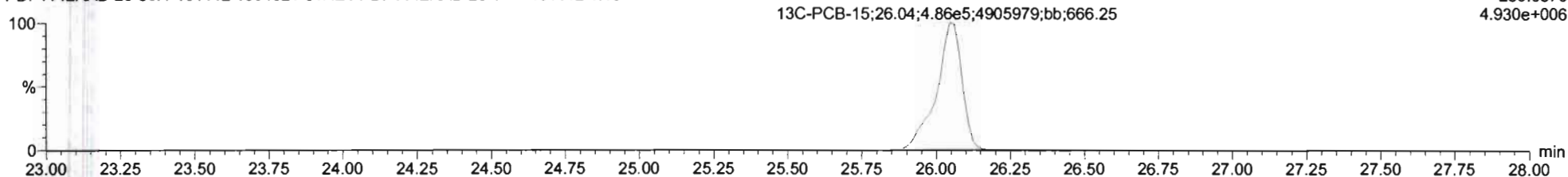
200201K2_10
PDI-1142RAB-20-30.4-191112 1904021-01RE1 PDI-1142RAB-20-30.4-191112 1.16

F2:Voltage SIR,EI+
234.0406
7.688e+006



200201K2_10
PDI-1142RAB-20-30.4-191112 1904021-01RE1 PDI-1142RAB-20-30.4-191112 1.16

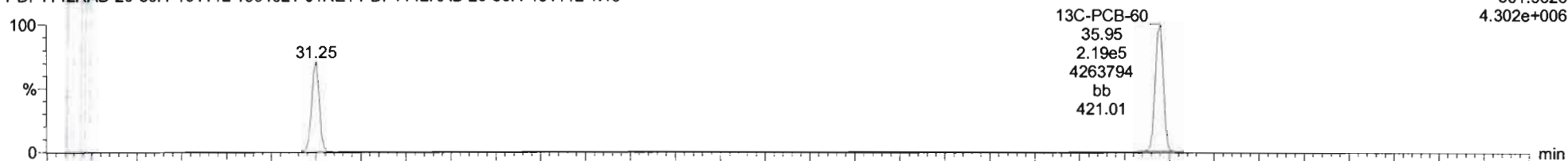
F2:Voltage SIR,EI+
236.0376
4.930e+006



13C-PCB-60

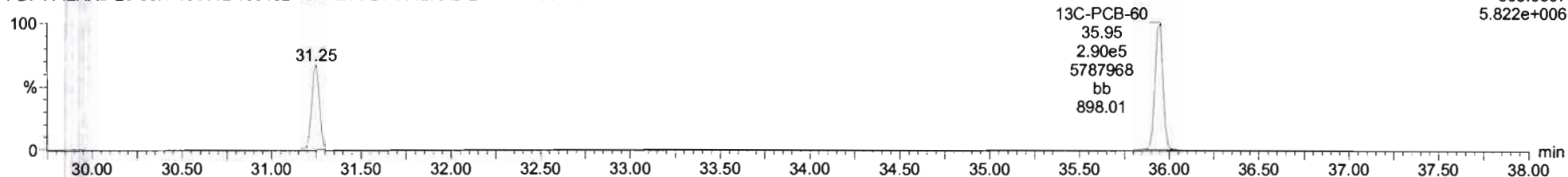
200201K2_10
PDI-1142RAB-20-30.4-191112 1904021-01RE1 PDI-1142RAB-20-30.4-191112 1.16

F3:Voltage SIR,EI+
301.9626
4.302e+006



200201K2_10
PDI-1142RAB-20-30.4-191112 1904021-01RE1 PDI-1142RAB-20-30.4-191112 1.16

F3:Voltage SIR,EI+
303.9597
5.822e+006



Dataset: U:\VG11.PRO\Results\200201K2\200201K2-10.qld

Last Altered: Monday, February 03, 2020 11:20:31 Pacific Standard Time

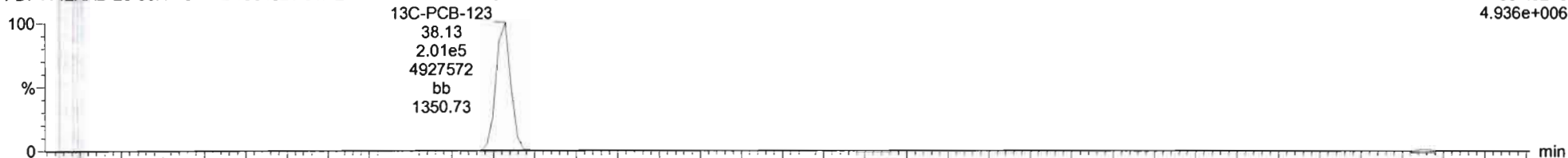
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13C-PCB-123

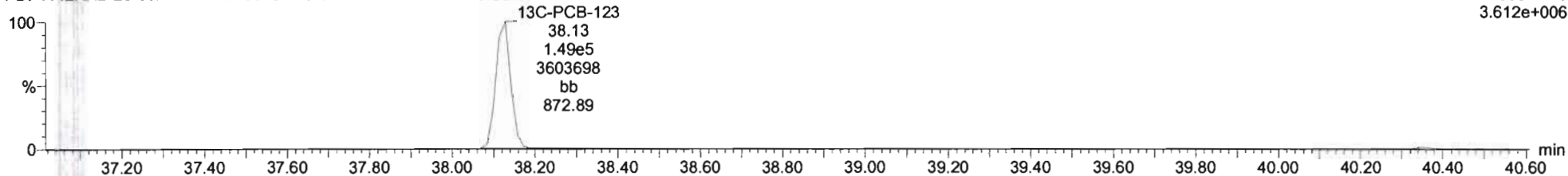
200201K2_10
PDI-1142RAB-20-30.4-191112 1904021-01RE1 PDI-1142RAB-20-30.4-191112 1.16

F4:Voltage SIR,EI+
337.9210
4.936e+006



200201K2_10
PDI-1142RAB-20-30.4-191112 1904021-01RE1 PDI-1142RAB-20-30.4-191112 1.16

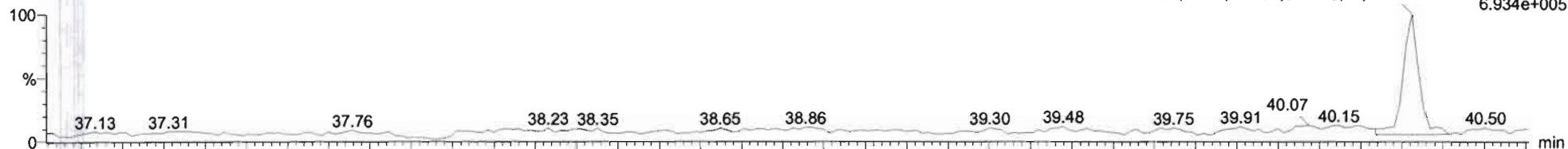
F4:Voltage SIR,EI+
339.9180
3.612e+006



13C-PARLAR 39

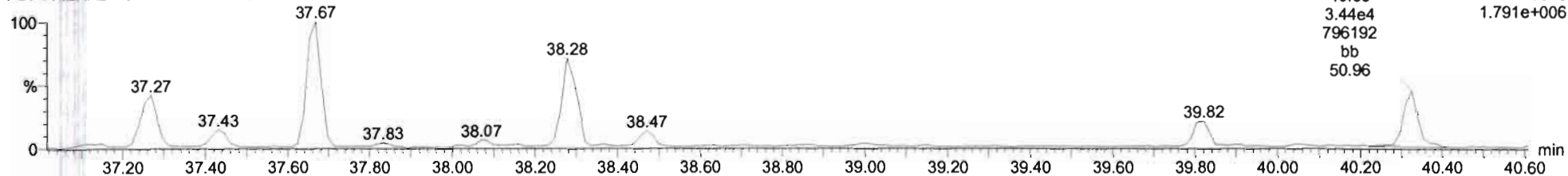
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PDI-1142RAB-20-30.4-191112 1904021-01RE1 PDI-1142RAB-20-30.4-191112 1.16

F4:Voltage SIR,EI+
251.9648
6.934e+005
13C-PARLAR 39;40.33;3.04e4;656916;db;33.98



200201K2_10
PDI-1142RAB-20-30.4-191112 1904021-01RE1 PDI-1142RAB-20-30.4-191112 1.16

F4:Voltage SIR,EI+
253.9619
1.791e+006
13C-PARLAR 39
40.33
3.44e4
796192
bb
50.96



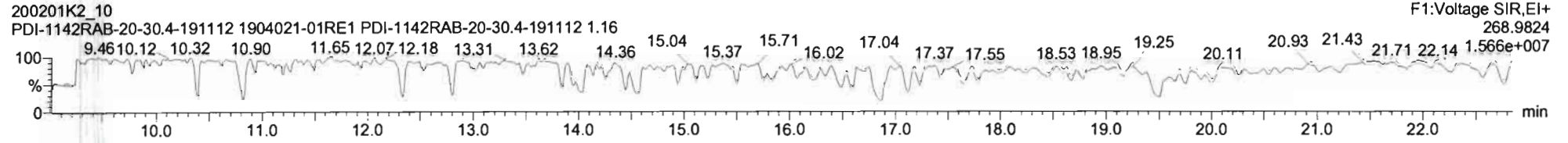
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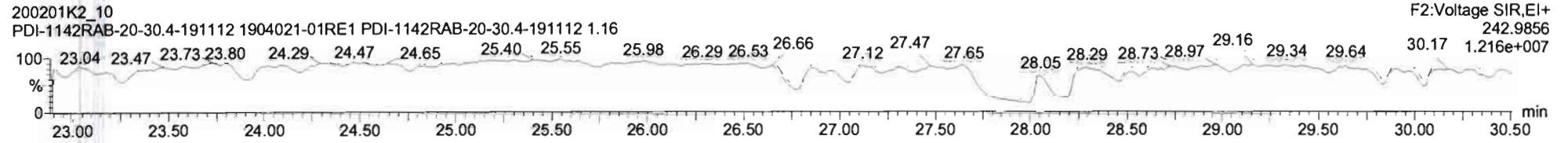
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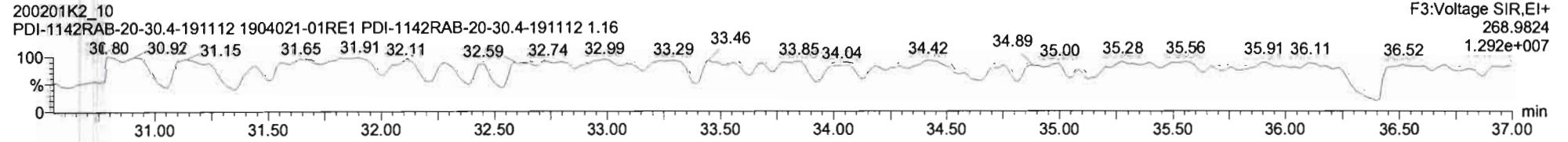
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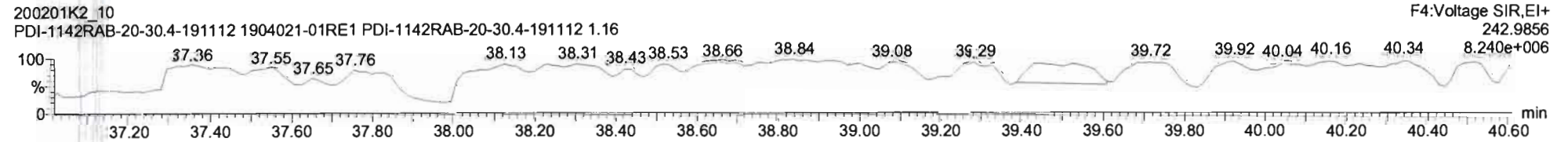
PFK2



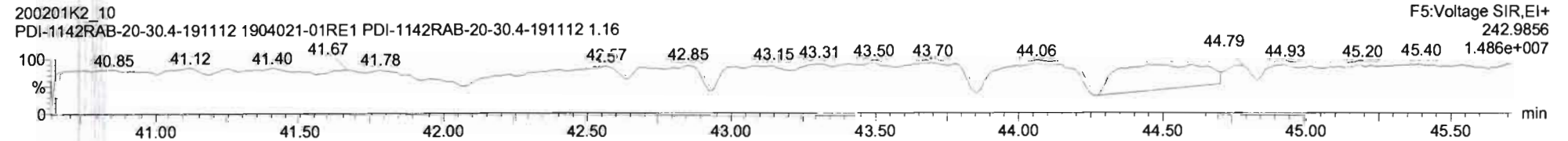
PFK3



PFK4



PFK5



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Last Altered: Tuesday, November 26, 2019 09:25:44 Pacific Standard Time

Printed: Tuesday, November 26, 2019 09:26:08 Pacific Standard Time

GRG 11/26/19

CT 02/04/2020

Method: U:\VG11.PRO\MethDB\1699rrt-11-21-19.mdb 21 Nov 2019 11:39:32

Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-11-22-19-LIMITEDB.cdb 23 Nov 2019 13:11:31

Name: 191122K3_16, Date: 23-Nov-2019, Time: 04:21:41, ID: 1904021-02 PDI-142RAB-00-10-191112 1, Description: PDI-142RAB-00-10-191112

	# Name	Resp	IS Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	RRT Fail	Conc.	%Rec	DL	EMPC
1	4 Lindane (gamma-BHC)		1.39e5		NO	0.744	1.023	✓ 26.65				1.001	YES		6.33	
2	9 Aldrin		1.01e5		NO	1.02	1.023	30.99				1.001	YES		2.18	
3	10 Oxychlordane		2.44e4		NO	0.992	1.023	33.59				1.001	YES		8.19	
4	13 trans-Chlordane (gam...	3.33e2	2.37e4	0.98	YES	1.08	1.023	35.28	35.31	1.001	1.001	NO	12.7		7.01	10.3
5	14 trans-Nonachlor	4.54e2	2.69e4	1.79	NO	1.00	1.023	35.47	35.47	1.000	1.001	NO	16.4		6.02	16.4
6	15 cis-Chlordane	3.84e2	2.69e4	0.95	YES	0.981	1.023	35.96	35.95	1.014	1.014	NO	14.2		6.18	11.4
7	18 2,4'-DDE		7.03e5		NO	0.854	1.023	35.94				1.000	NO		2.21	
8	19 4,4'-DDE	1.29e4	5.13e5	1.25	NO	0.873	1.023	37.03	37.03	1.000	1.000	NO	28.2		2.79	28.2
9	20 Dieldrin	1.13e3	6.26e4	1.70	NO	0.957	1.023	37.52	37.51	1.000	1.000	NO	18.4		4.42	18.4
10	22 cis-Nonachlor		3.25e4		NO	0.956	1.023	39.22				1.000	YES		7.76	

Dataset: U:\VG11.PRO\Results\191122K3\191122K3-16.qld

Last Altered: Tuesday, November 26, 2019 09:21:55 Pacific Standard Time

Printed: Tuesday, November 26, 2019 09:24:45 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1699rrt-11-21-19.mdb 21 Nov 2019 11:39:32

Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-11-22-19-LIMITEDB.cdb 23 Nov 2019 13:11:31

Name: 191122K3_16, Date: 23-Nov-2019, Time: 04:21:41, ID: 1904021-02 PDI-142RAB-00-10-191112 1, Description: PDI-142RAB-00-10-191112

	# Name	Resp	IS Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	RRT Fail	Conc.	%Rec	DL	EMPC
1	24 2,4'-DDD	1.81e4	6.28e5	1.38	NO	0.915	1.023	38.15	38.18	1.001	1.000	NO	30.7		3.26	30.7
2	25 2,4'-DDT	1.01e4	3.67e5	1.52	NO	0.921	1.023	39.30	39.29	1.000	1.000	NO	29.2		5.41	29.2
3	26 4,4'-DDD	5.18e4	5.18e5	1.48	NO	1.00	1.023	39.43	39.43	1.000	1.000	NO	97.4		3.22	97.4
4	27 4,4'-DDT	7.52e4	3.00e5	1.67	NO	0.986	1.023	40.50	40.50	1.000	1.000	NO	249		5.92	249
5	36 13C6-Lindane (gamma)	1.39e5	1.31e6	0.79	NO	0.189	1.023	26.64	26.62	1.018	1.020	NO	550	56.3	3.74	
6	40 13C12-Aldrin	1.01e5	1.31e6	1.66	NO	0.122	1.023	30.95	30.96	1.185	1.184	NO	624	63.8	2.80	
7	41 13C10-Oxychlorane	2.44e4	1.31e6	1.49	NO	0.0283	1.023	33.55	33.57	1.285	1.284	NO	645	66.0	12.0	
8	43 13C10-trans-Chlordan...	2.37e4	1.31e6	1.68	NO	0.0292	1.023	35.25	35.26	1.349	1.349	NO	609	62.3	11.7	
9	44 13C10-trans-Nonachlor	2.69e4	1.31e6	1.64	NO	0.0333	1.023	35.44	35.45	1.357	1.356	NO	604	61.8	10.2	

Dataset: U:\VG11.PRO\Results\191122K3\191122K3-16.qld

Last Altered: Tuesday, November 26, 2019 09:21:55 Pacific Standard Time
Printed: Tuesday, November 26, 2019 09:24:54 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1699rrt-11-21-19.mdb 21 Nov 2019 11:39:32

Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-11-22-19-LIMITEDB.cdb 23 Nov 2019 13:11:31

Name: 191122K3_16, Date: 23-Nov-2019, Time: 04:21:41, ID: 1904021-02 PDI-142RAB-00-10-191112 1, Description: PDI-142RAB-00-10-191112

	# Name	Resp	IS Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	RRT Fail	Conc.	%Rec	DL	EMPC
1	46 13C12-2,4'-DDE	7.03e5	1.31e6	1.55	NO	0.763	1.023	35.95	35.93	0.996	0.996	NO	690	70.6	6.28	
2	47 13C12-4,4'-DDE	5.13e5	1.31e6	1.56	NO	0.552	1.023	37.01	37.01	1.025	1.026	NO	695	71.1	8.68	
3	48 13C12-Dieldrin	6.26e4	1.31e6	1.56	NO	0.0749	1.023	37.51	37.50	1.039	1.039	NO	625	63.9	5.15	
4	50 13C10-cis-Nonachlor	3.25e4	1.31e6	1.64	NO	0.0389	1.023	39.20	39.21	1.086	1.086	NO	625	63.9	9.91	
5	52 13C12-2,4'-DDD	6.28e5	1.31e6	1.56	NO	0.588	1.023	38.12	38.15	1.460	1.459	NO	799	81.7	3.94	
6	53 13C12-2,4'-DDT	3.67e5	1.31e6	1.62	NO	0.370	1.023	39.25	39.28	1.503	1.502	NO	742	75.9	6.25	
7	54 13C12-4,4'-DDD	5.18e5	1.31e6	1.61	NO	0.473	1.023	39.37	39.41	1.508	1.507	NO	820	83.8	4.89	
8	55 13C12-4,4'-DDT	3.00e5	1.31e6	1.57	NO	0.280	1.023	40.44	40.48	1.549	1.547	NO	801	82.0	8.26	
9	62 13C-PCB-15	1.31e6	1.31e6	1.56	NO	1.00	1.023	26.18	26.13	1.000	1.000	NO	978	100	0.846	

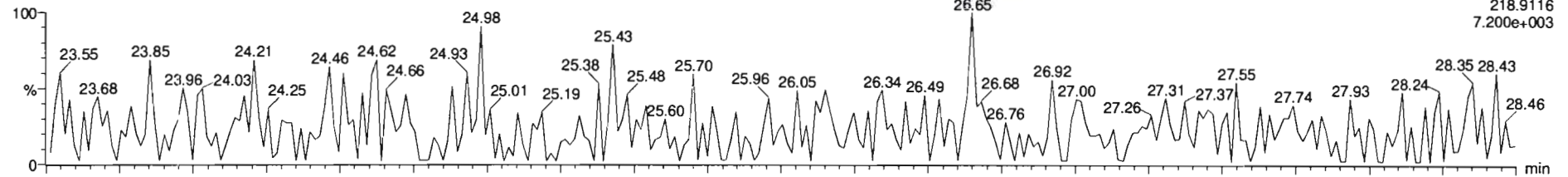
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Printed: Monday, November 25, 2019 11:23:53 Pacific Standard Time

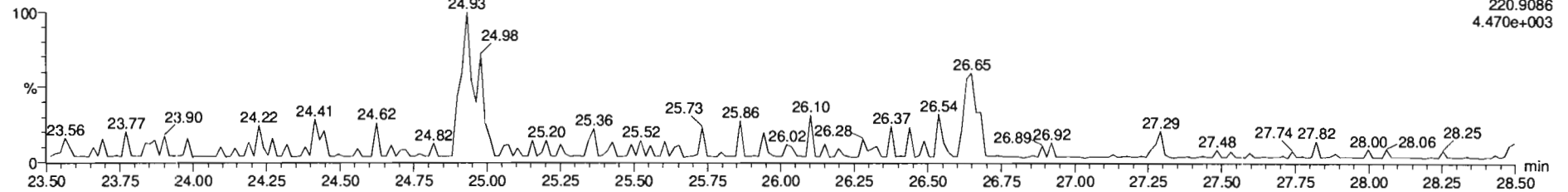
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Lindane (gamma-BHC)

191122K3_16

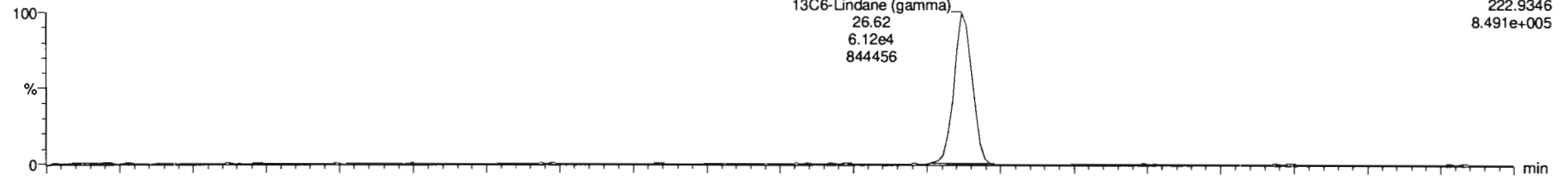


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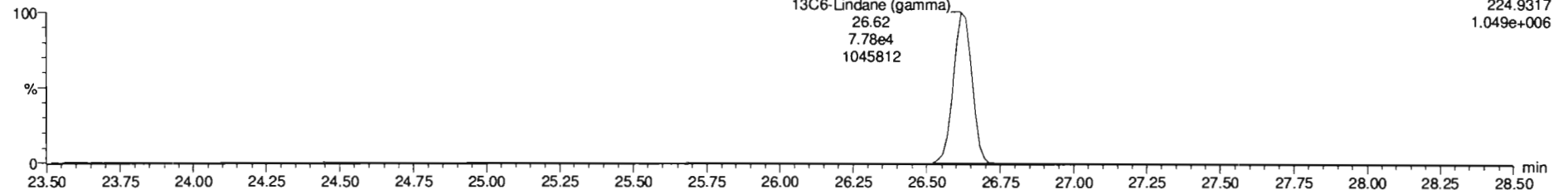


13C6-Lindane (gamma)

191122K3_16



191122K3_16



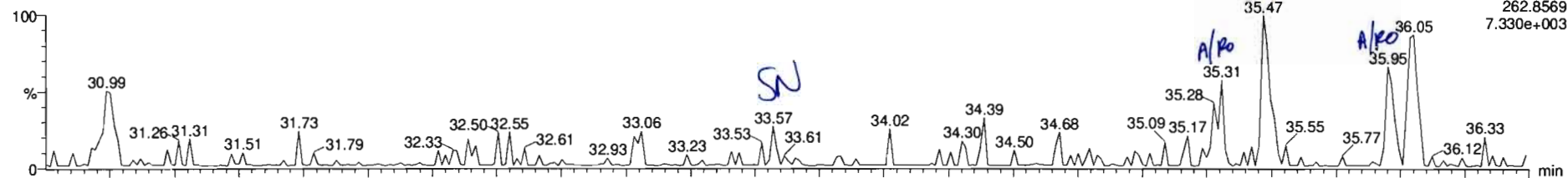
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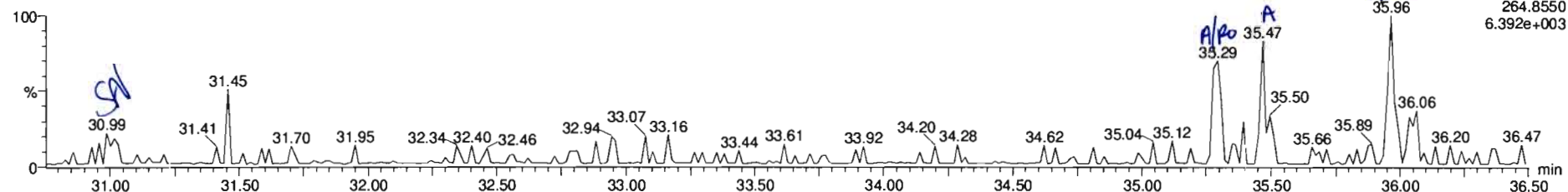
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Aldrin-EI

191122K3_16

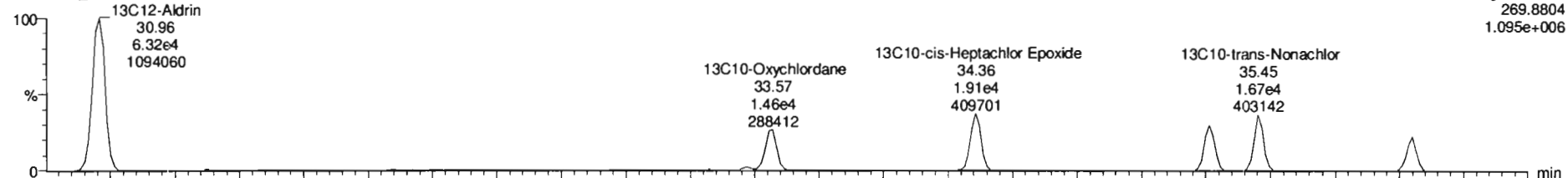


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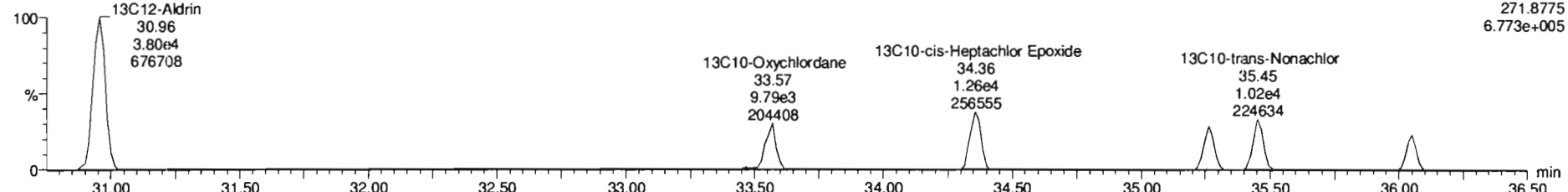


Aldrin-EI-isotopes

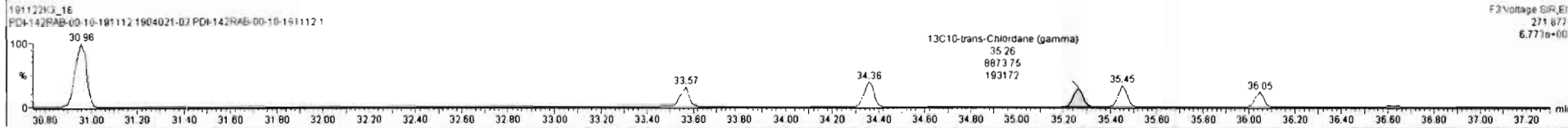
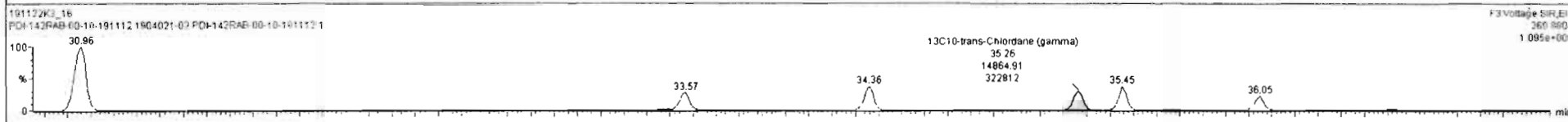
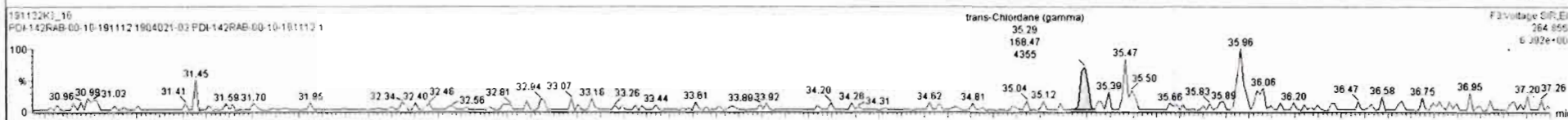
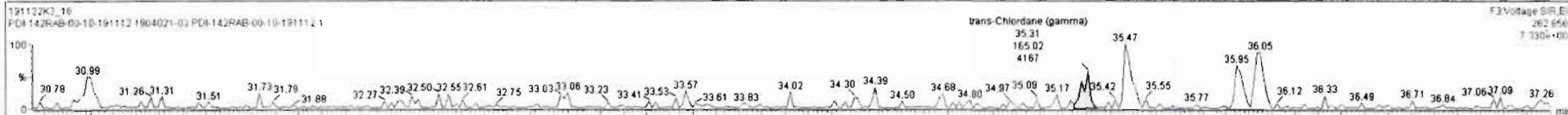
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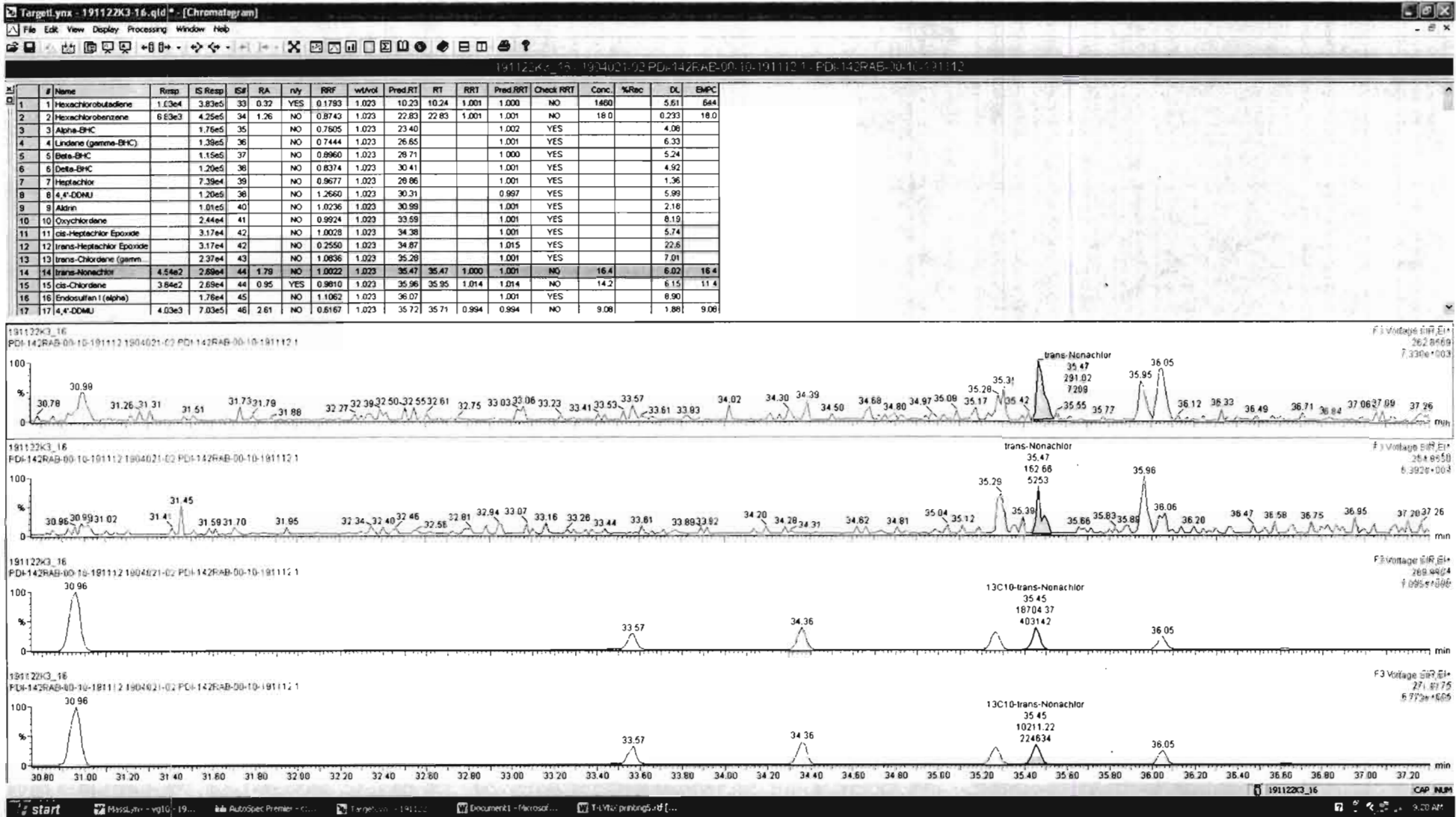


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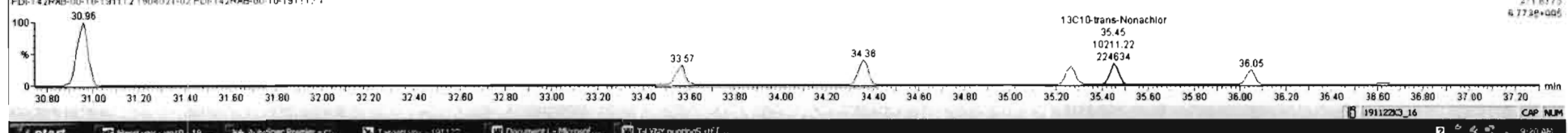
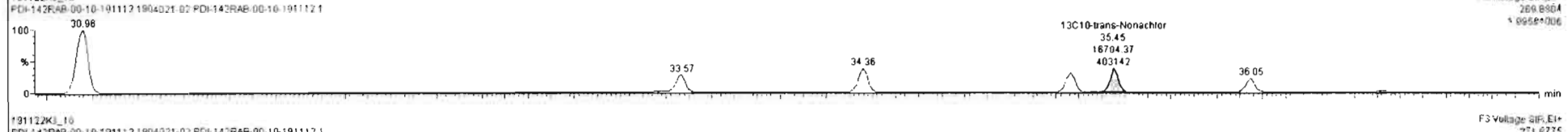
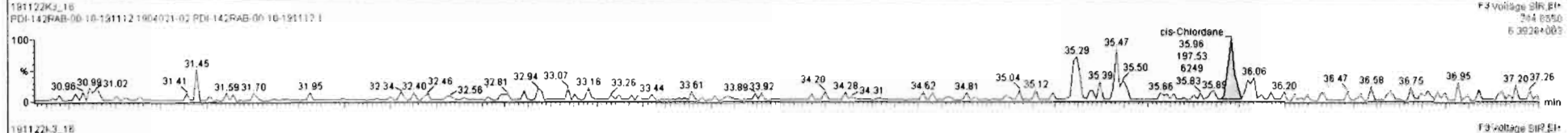
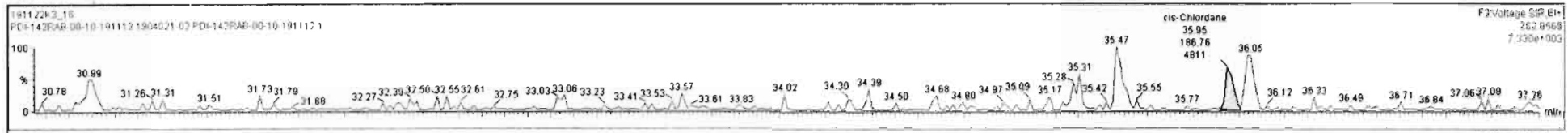


#	Name	Resp	IS Resp	IS#	RA	rvy	RRF	wVvd	Pred.RT	RT	RRT	Pred.RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	Hexachlorobutadiene	1.03e4	3.83e5	33	0.32	YES	0.1793	1.023	10.23	10.24	1.001	1.000	NO	1460	5.61	644	
2	Hexachlorobenzene	6.63e3	4.25e5	34	1.26	NO	0.8743	1.023	22.83	22.83	1.001	1.001	NO	18.0	0.233	18.0	
3	Alpha-BHC		1.75e5	35		NO	0.7605	1.023	23.40			1.002	YES		4.08		
4	Lindane (gamma-BHC)		1.39e5	36		NO	0.7444	1.023	26.65			1.001	YES		6.33		
5	Beta-BHC		1.15e5	37		NO	0.8960	1.023	28.71			1.000	YES		5.24		
6	Delta-BHC		1.20e5	38		NO	0.8374	1.023	30.41			1.001	YES		4.92		
7	Heptachlor		7.39e4	39		NO	0.9677	1.023	28.86			1.001	YES		1.36		
8	4,4'-DDMU		1.20e5	38		NO	1.2660	1.023	30.31			0.997	YES		5.99		
9	Aldrin		1.01e5	40		NO	1.0236	1.023	30.99			1.001	YES		2.18		
10	Oxychlorane		2.44e4	41		NO	0.9924	1.023	33.59			1.001	YES		8.19		
11	cis-Heptachlor Epoxide		3.17e4	42		NO	1.0028	1.023	34.38			1.001	YES		5.74		
12	trans-Heptachlor Epoxide		3.17e4	42		NO	0.2550	1.023	34.87			1.015	YES		22.6		
13	trans-Chlordane (gamma)	3.33e2	2.37e4	43	0.96	YES	1.0836	1.023	35.28	35.31	1.001	1.001	NO	12.7	7.01	10.3	
14	trans-Nonachlor	4.54e2	2.89e4	44	1.79	NO	1.0022	1.023	35.47	35.47	1.000	1.001	NO	16.4	6.02	16.4	
15	cis-Chlordane	3.84e2	2.89e4	44	0.95	YES	0.9610	1.023	35.96	35.95	1.014	1.014	NO	14.2	6.15	11.4	
16	Endosulfen I (alpha)		1.76e4	45		NO	1.1062	1.023	36.07			1.001	YES		8.90		
17	4,4'-DDMU	4.03e3	7.03e5	46	2.61	NO	0.6167	1.023	35.72	35.71	0.994	0.994	NO	9.08	1.88	9.08	





#	Name	Resp	IS Resp	IS#	RA	nly	RRF	wt%id	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	BMP
1	Hexachlorobutadiene	1.03e4	3.83e5	33	0.32	YES	0.1793	1.023	10.23	10.24	1.001	1.000	NO	1460		5.61	644
2	Hexachlorobenzene	6.83e3	4.25e5	34	1.26	NO	0.8743	1.023	22.83	22.83	1.001	1.001	NO	18.0		0.233	18.0
3	Alpha-BHC		1.78e5	35		NO	0.7605	1.023	23.40			1.002	YES				4.08
4	Lindane (gamma-BHC)		1.39e5	36		NO	0.7444	1.023	26.55			1.001	YES				6.33
5	Beta-BHC		1.15e5	37		NO	0.8960	1.023	28.71			1.000	YES				5.24
6	Delta-BHC		1.20e5	38		NO	0.8374	1.023	30.41			1.001	YES				4.52
7	Heptachlor		7.39e4	39		NO	0.9677	1.023	28.86			1.001	YES				1.36
8	4,4'-DDMU		1.20e5	38		NO	1.2660	1.023	30.31			0.997	YES				5.99
9	Alkalin		1.01e5	40		NO	1.0236	1.023	30.99			1.001	YES				2.18
10	Chrychlorane		2.44e4	41		NO	0.9924	1.023	33.59			1.001	YES				8.19
11	cis-Heptachlor Epoxide		3.17e4	42		NO	1.0028	1.023	34.36			1.001	YES				5.74
12	trans-Heptachlor Epoxide		3.17e4	42		NO	0.2550	1.023	34.87			1.015	YES				22.6
13	trans-Chlordane (gamm)		2.37e4	43		NO	1.0836	1.023	35.28			1.001	YES				7.01
14	trans-Nonachlor		4.54e2	44	1.78	NO	1.0022	1.023	35.47	35.47	1.000	1.001	NO	16.4		6.02	16.4
15	cis-Chlordane		3.84e2	44	0.95	YES	0.9810	1.023	35.96	35.95	1.014	1.014	NO	14.2		6.15	11.4
16	Endosulfan I (alpha)		1.78e4	45		NO	1.1062	1.023	36.07			1.001	YES				8.90
17	4,4'-DDMU		4.03e3	46	2.61	NO	0.6167	1.023	35.72	35.71	0.994	0.994	NO	9.06		1.86	9.06



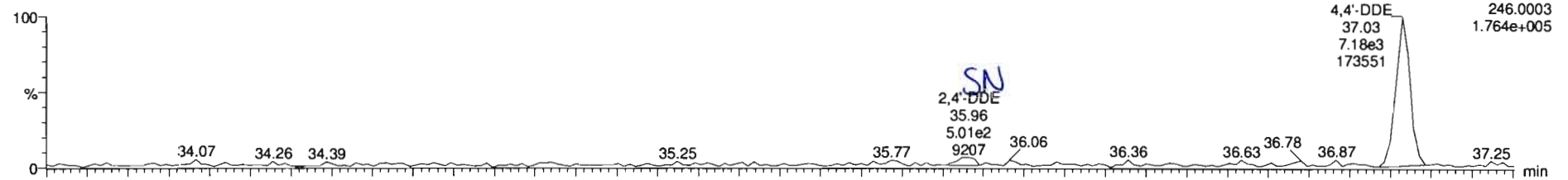
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Printed: Monday, November 25, 2019 11:23:53 Pacific Standard Time

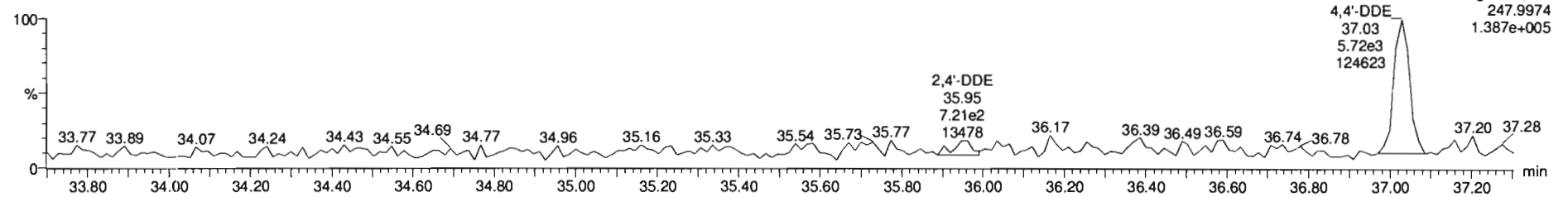
Name: 191122K3_16, Date: 23-Nov-2019, Time: 04:21:41, ID: 1904021-02 PDI-142RAB-00-10-191112 1, Description: PDI-142RAB-00-10-191112

DDMU-DDE

191122K3_16

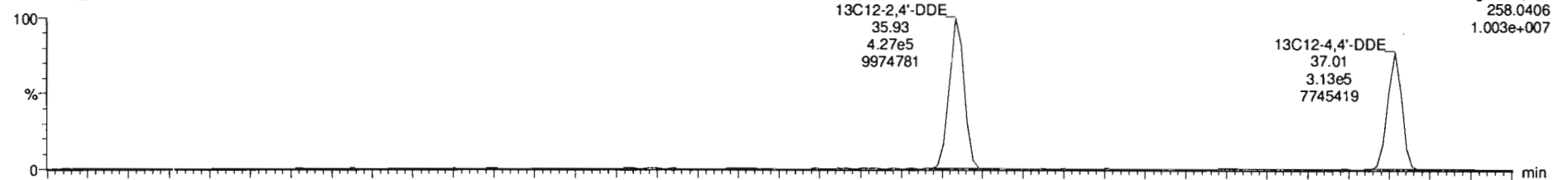


191122K3_16

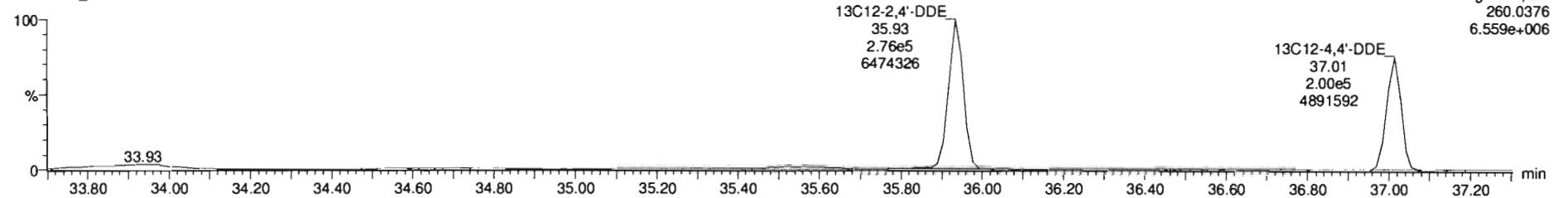


DDE-isotopes

191122K3_16



191122K3_16

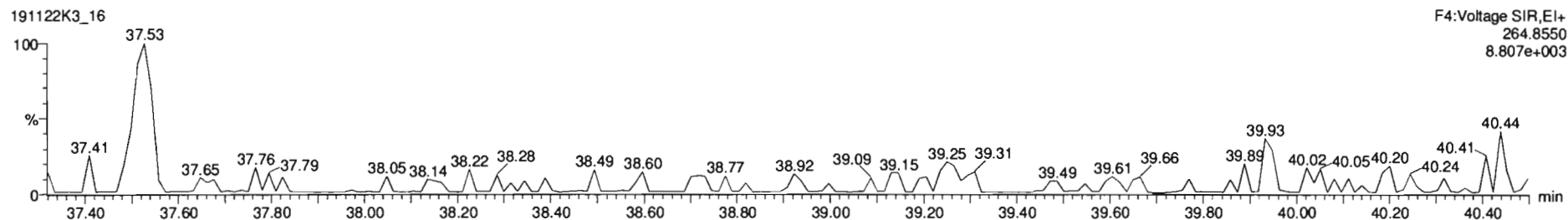
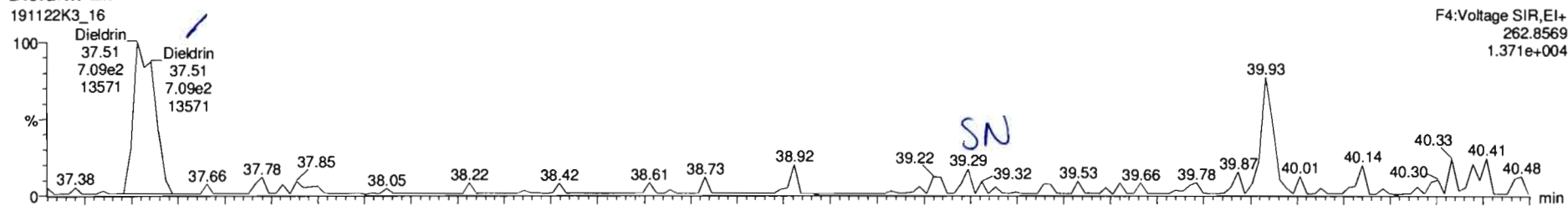


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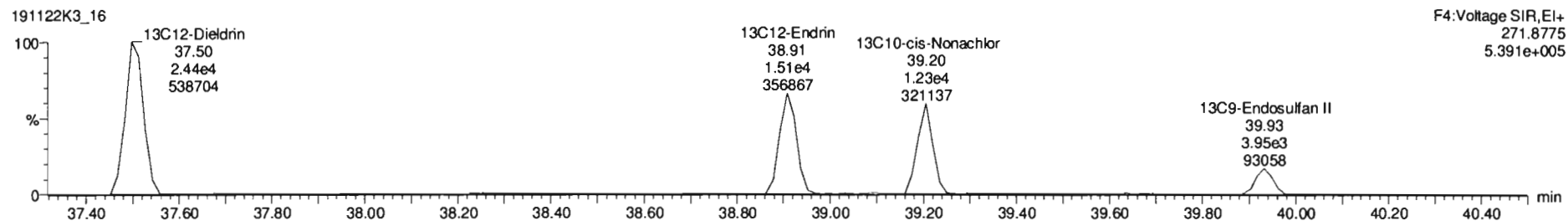
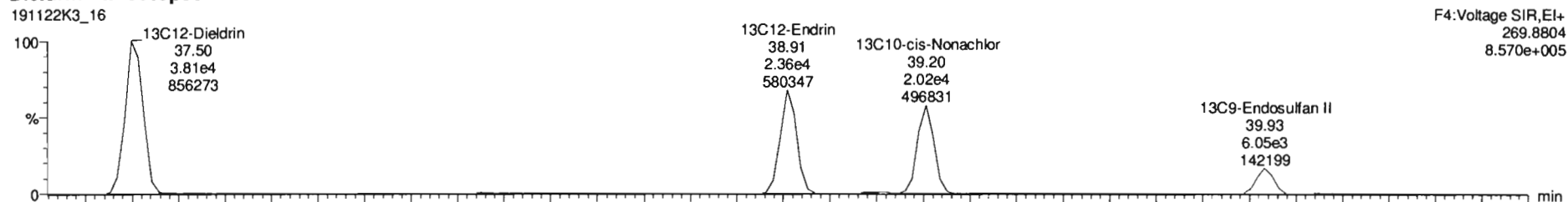
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Printed: Monday, November 25, 2019 11:23:53 Pacific Standard Time

Name: 191122K3_16, Date: 23-Nov-2019, Time: 04:21:41, ID: 1904021-02 PDI-142RAB-00-10-191112 1, Description: PDI-142RAB-00-10-191112

Dieldrin-EII



Dieldrin-EII-isotopes



Dataset: Untitled

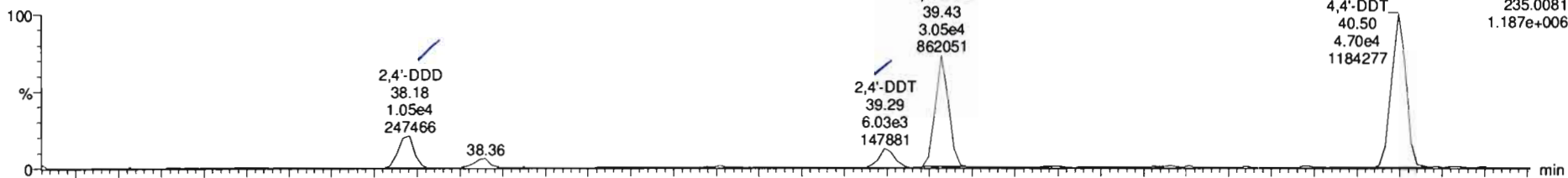
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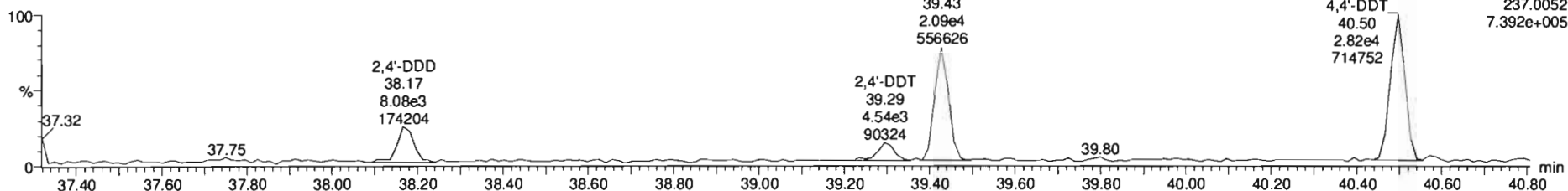
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DDD-DDT

191122K3_16

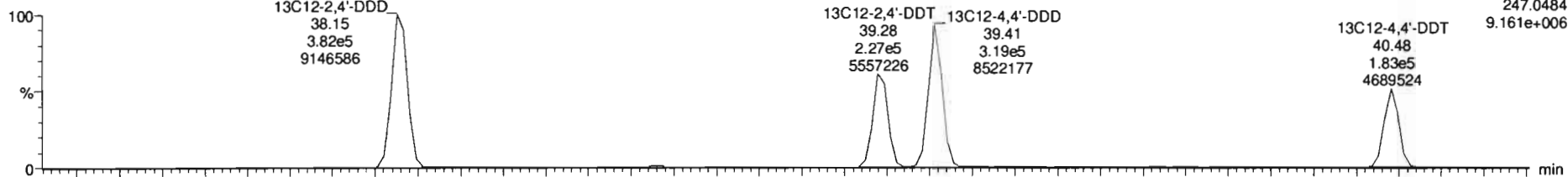


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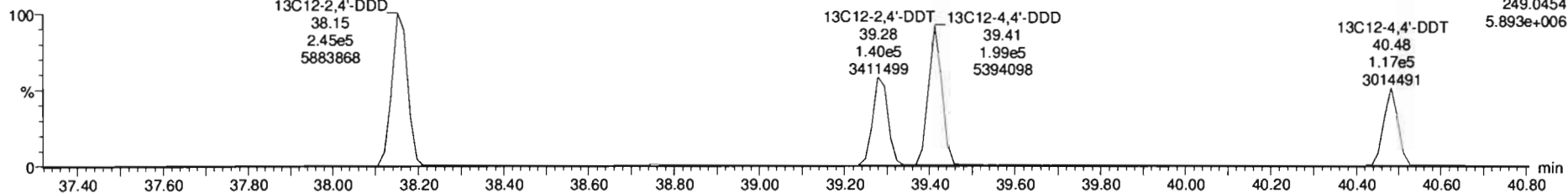


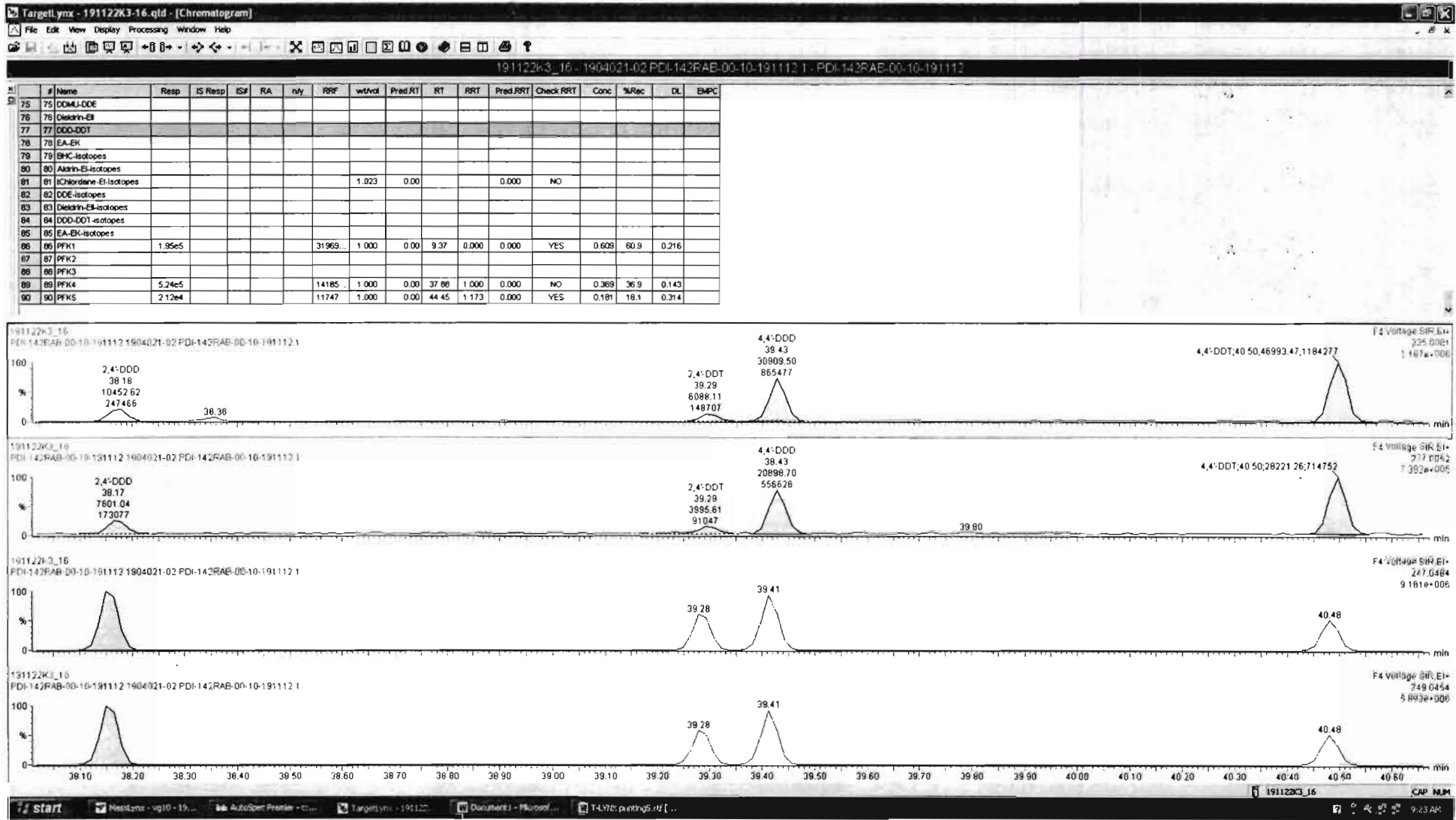
DDD-DDT-isotopes

191122K3_16



191122K3_16





Dataset: Untitled

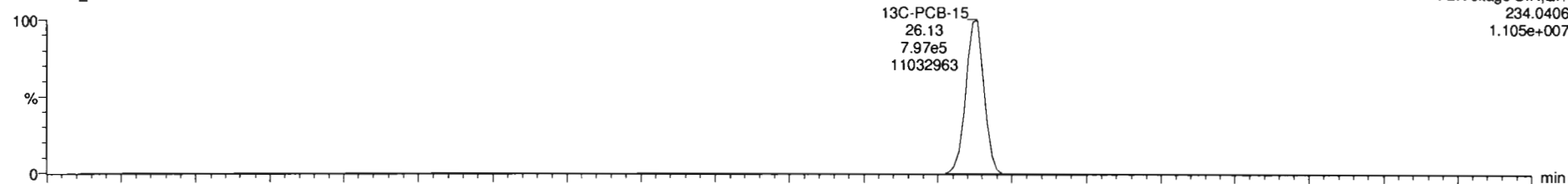
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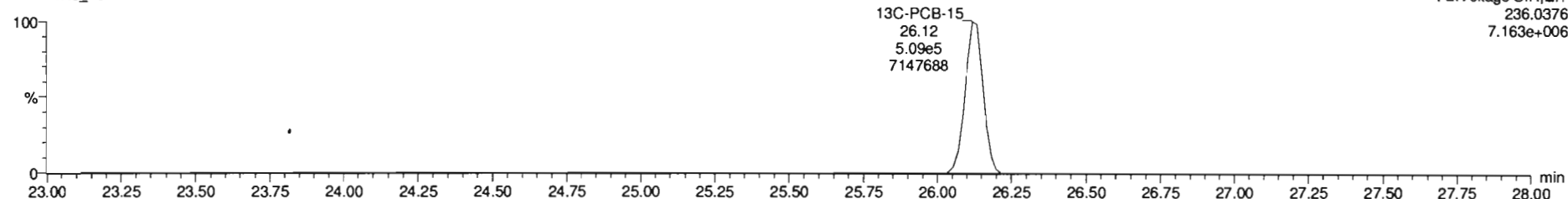
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13C-PCB-15

191122K3_16

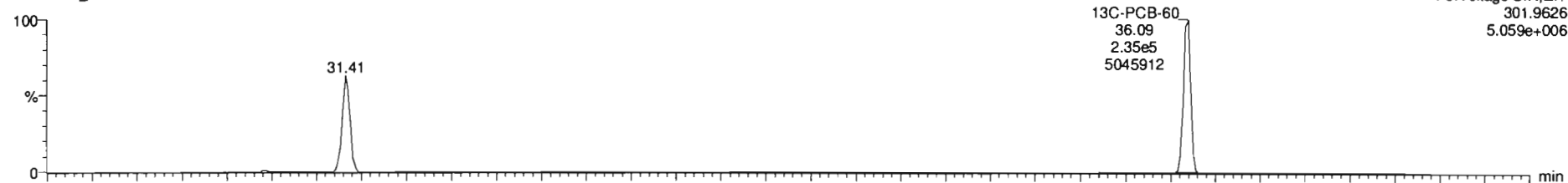


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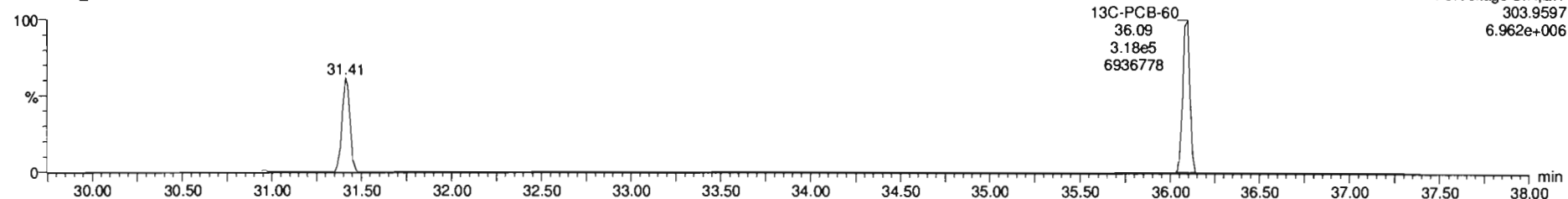


13C-PCB-60

191122K3_16



191122K3_16



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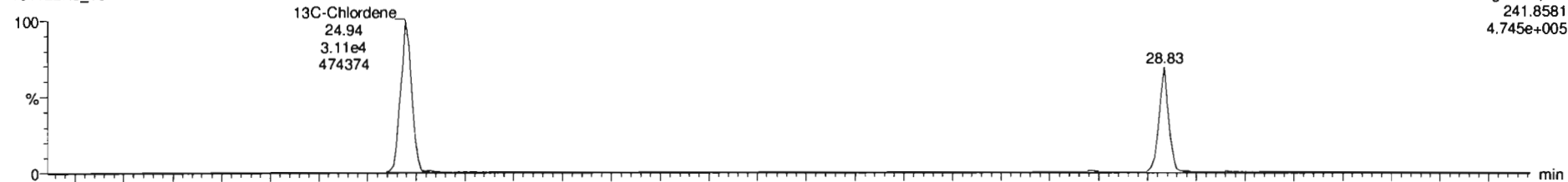
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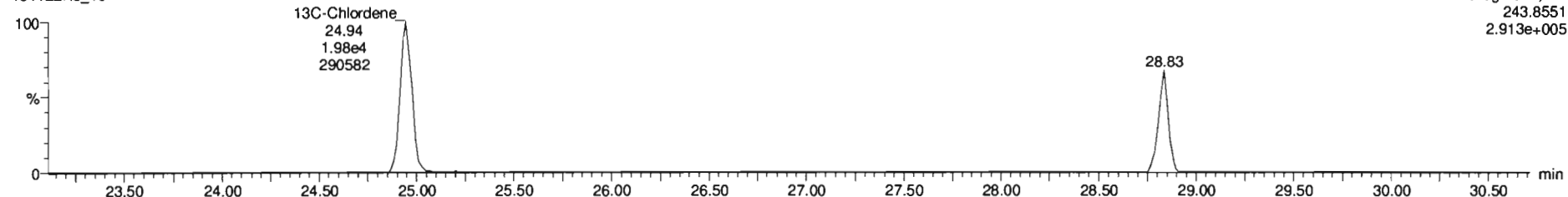
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13C-Chlordene

191122K3_16

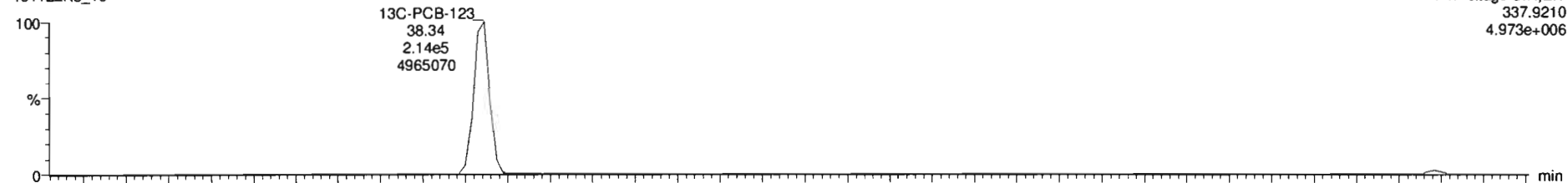


191122K3_16

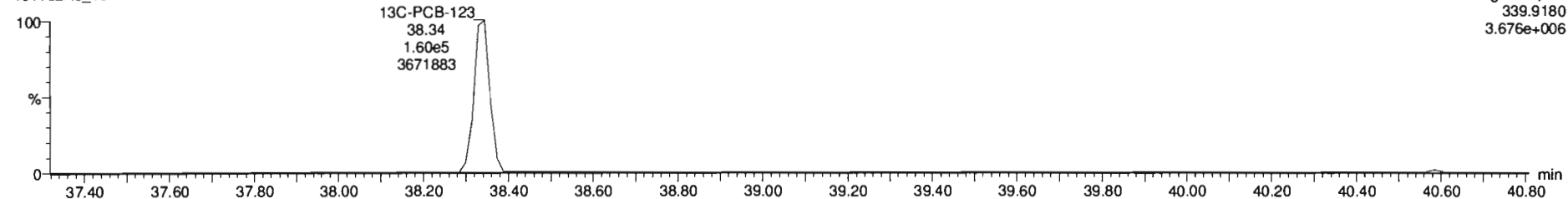


13C-PCB-123

191122K3_16



191122K3_16



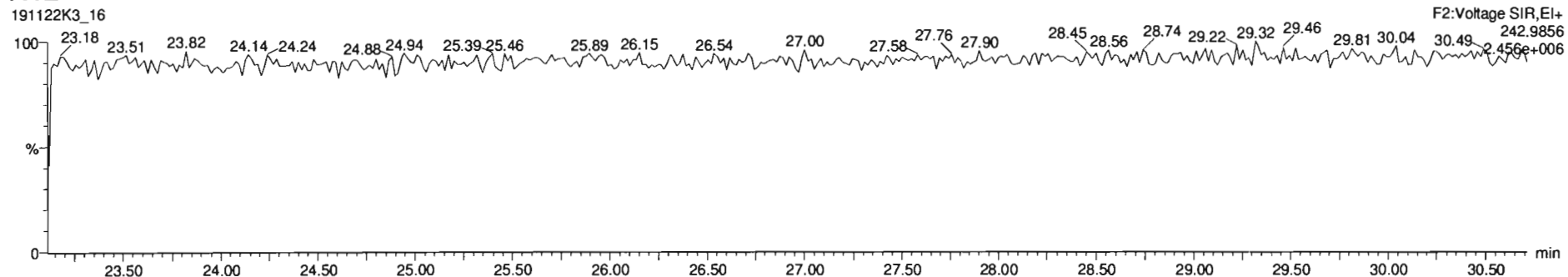
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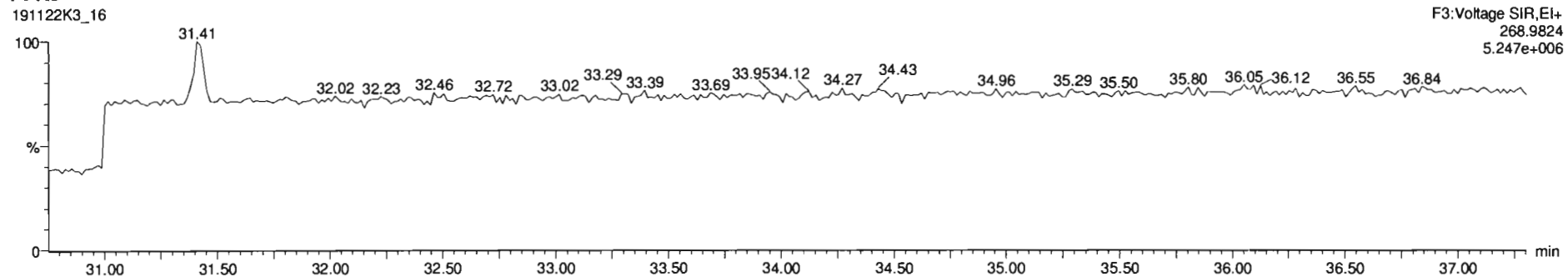
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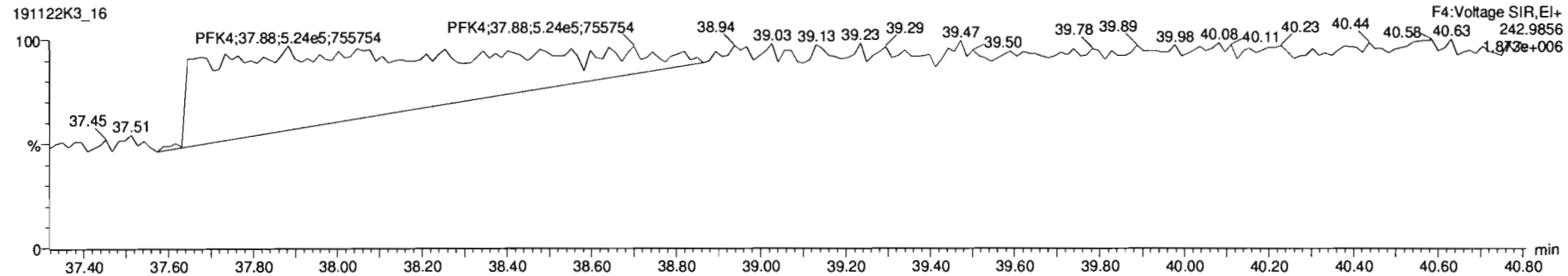
PFK2



PFK3



PFK4



Dataset: U:\VG11.PRO\Results\191122K3\191122K3-17.qld

Last Altered: Tuesday, November 26, 2019 09:54:58 Pacific Standard Time

Printed: Tuesday, November 26, 2019 09:56:36 Pacific Standard Time

Geo 11/26/19

C7 02/04/2020

Method: U:\VG11.PRO\MethDB\1699rrt-11-21-19.mdb 21 Nov 2019 11:39:32

Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-11-22-19-LIMITEDB.cdb 23 Nov 2019 13:11:31

Name: 191122K3_17, Date: 23-Nov-2019, Time: 05:11:17, ID: 1904021-03 PDI-142RAB-10-20-191112 1, Description: PDI-142RAB-10-20-191112

	# Name	Resp	IS Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	RRT Fail	Conc.	%Rec	DL	EMPC
1	4 Lindane (gamma-BHC)	4.04e2	1.28e5	2.34	NO	0.744	1.017	✓ 26.66	26.66	1.001	1.001	NO	4.19		7.76	4.19
2	9 Aldrin		9.63e4		NO	1.02	1.017	30.99			1.001	YES			2.87	
3	10 Oxychlordane		2.44e4		NO	0.992	1.017	33.59			1.001	YES			11.4	
4	13 trans-Chlordane (gam...	4.23e2	2.29e4	1.21	NO	1.08	1.017	35.30	35.29	1.000	1.001	NO	16.8		9.32	16.8
5	14 trans-Nonachlor	2.70e2	2.47e4	2.24	YES	1.00	1.017	35.49	35.50	1.001	1.001	NO	10.7		9.27	8.47
6	15 cis-Chlordane	3.90e2	2.47e4	2.08	YES	0.981	1.017	35.97	35.98	1.014	1.014	NO	15.8		9.47	13.1
7	18 2,4'-DDE		6.33e5		NO	0.854	1.017	35.96			1.000	NO			2.35	
8	19 4,4'-DDE	1.69e4	4.51e5	1.22	NO	0.873	1.017	37.05	37.04	1.000	1.000	NO	42.2		3.18	42.2
9	20 Dieldrin	8.46e2	5.66e4	2.30	YES	0.957	1.017	37.53	37.54	1.001	1.000	NO	15.3		6.82	11.9
10	22 cis-Nonachlor		2.79e4		NO	0.956	1.017	39.23			1.000	YES			13.8	

Dataset: U:\VG11.PRO\Results\191122K3\191122K3-17.qld

Last Altered: Tuesday, November 26, 2019 09:54:58 Pacific Standard Time

Printed: Tuesday, November 26, 2019 09:56:42 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1699rrt-11-21-19.mdb 21 Nov 2019 11:39:32

Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-11-22-19-LIMITEDB.cdb 23 Nov 2019 13:11:31

Name: 191122K3_17, Date: 23-Nov-2019, Time: 05:11:17, ID: 1904021-03 PDI-142RAB-10-20-191112 1, Description: PDI-142RAB-10-20-191112

	# Name	Resp	IS Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	RRT Fail	Conc.	%Rec	DL	EMPC
1	24 2,4'-DDD	4.48e4	5.52e5	1.65	NO	0.915	1.017	38.17	38.18	1.000	1.000	NO	87.2		3.96	87.2
2	25 2,4'-DDT	2.09e4	3.32e5	1.86	NO	0.921	1.017	39.31	39.31	1.000	1.000	NO	67.1		6.57	67.1
3	26 4,4'-DDD	1.44e5	4.60e5	1.56	NO	1.00	1.017	39.45	39.44	1.000	1.000	NO	307		4.41	307
4	27 4,4'-DDT	1.08e5	2.80e5	1.64	NO	0.986	1.017	40.52	40.51	1.000	1.000	NO	385		7.63	385
5	36 13C6-Lindane (gamma)	1.28e5	9.51e5	0.79	NO	0.189	1.017	26.64	26.63	1.019	1.020	NO	697	70.9	5.06	
6	40 13C12-Aldrin	9.63e4	9.51e5	1.63	NO	0.122	1.017	30.95	30.96	1.185	1.184	NO	819	83.3	5.28	
7	41 13C10-Oxychlorane	2.44e4	9.51e5	1.49	NO	0.0283	1.017	33.55	33.57	1.285	1.284	NO	892	90.7	22.7	
8	43 13C10-trans-Chlordan...	2.29e4	9.51e5	1.64	NO	0.0292	1.017	35.25	35.28	1.350	1.349	NO	810	82.4	22.0	
9	44 13C10-trans-Nonachlor	2.47e4	9.51e5	1.57	NO	0.0333	1.017	35.44	35.47	1.357	1.356	NO	765	77.8	19.2	

Dataset: U:\VG11.PRO\Results\191122K3\191122K3-17.qld

Last Altered: Tuesday, November 26, 2019 09:54:58 Pacific Standard Time

Printed: Tuesday, November 26, 2019 09:56:49 Pacific Standard Time

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Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-11-22-19-LIMITEDB.cdb 23 Nov 2019 13:11:31

Name: 191122K3_17, Date: 23-Nov-2019, Time: 05:11:17, ID: 1904021-03 PDI-142RAB-10-20-191112 1, Description: PDI-142RAB-10-20-191112

	# Name	Resp	IS Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	RRT Fail	Conc.	%Rec	DL	EMPC
1	46 13C12-2,4'-DDE	6.33e5	9.51e5	1.59	NO	0.763	1.017	35.95	35.95	0.996	0.996	NO	857	87.2	5.94	
2	47 13C12-4,4'-DDE	4.51e5	9.51e5	1.60	NO	0.552	1.017	37.01	37.03	1.026	1.026	NO	844	85.9	8.22	
3	48 13C12-Dieldrin	5.66e4	9.51e5	1.56	NO	0.0749	1.017	37.51	37.51	1.039	1.039	NO	781	79.4	6.98	
4	50 13C10-cis-Nonachlor	2.79e4	9.51e5	1.50	NO	0.0389	1.017	39.20	39.22	1.087	1.086	NO	740	75.3	13.4	
5	52 13C12-2,4'-DDD	5.52e5	9.51e5	1.56	NO	0.588	1.017	38.12	38.17	1.460	1.459	NO	969	98.6	6.77	
6	53 13C12-2,4'-DDT	3.32e5	9.51e5	1.60	NO	0.370	1.017	39.25	39.29	1.504	1.502	NO	927	94.3	10.7	
7	54 13C12-4,4'-DDD	4.60e5	9.51e5	1.56	NO	0.473	1.017	39.37	39.43	1.509	1.507	NO	1000	102	8.41	
8	55 13C12-4,4'-DDT	2.80e5	9.51e5	1.63	NO	0.280	1.017	40.44	40.50	1.550	1.547	NO	1030	105	14.2	
9	62 13C-PCB-15	9.51e5	9.51e5	1.59	NO	1.00	1.017	26.18	26.13	1.000	1.000	NO	983	100	1.14	

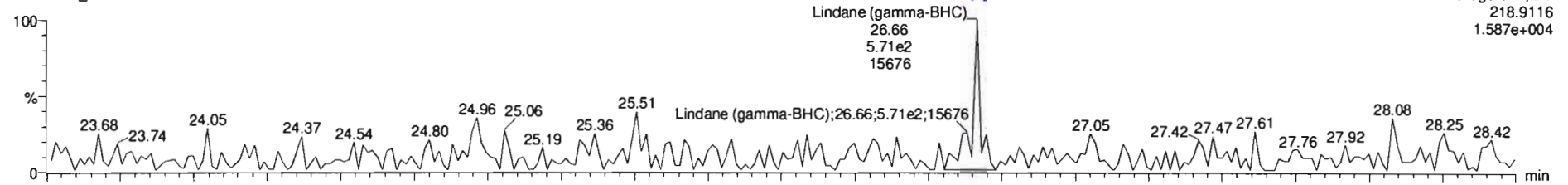
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Printed: Monday, November 25, 2019 11:23:53 Pacific Standard Time

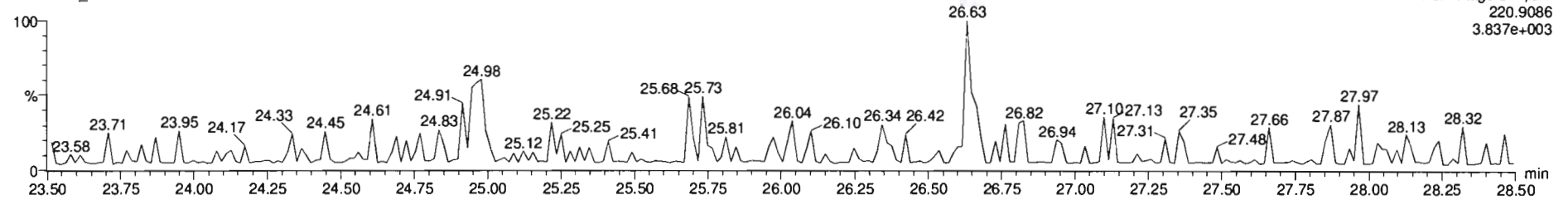
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Lindane (gamma-BHC)

191122K3_17

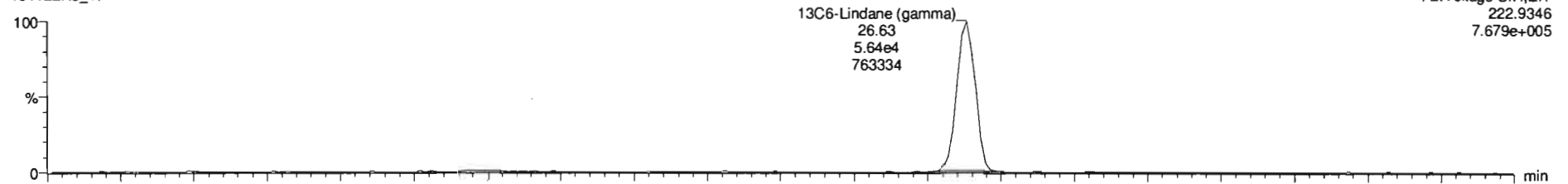


191122K3_17

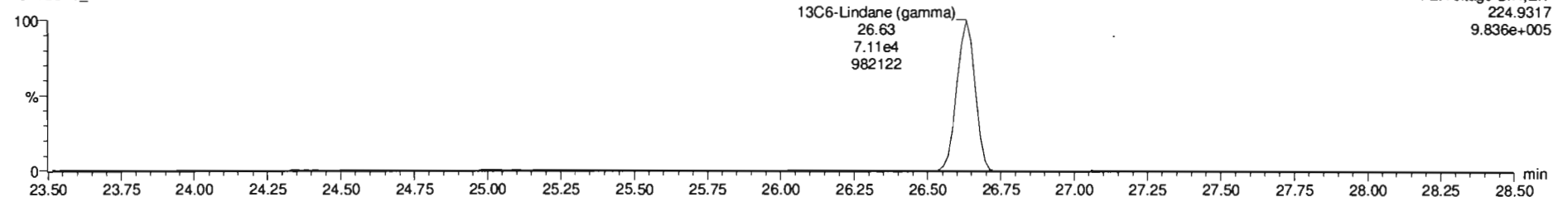


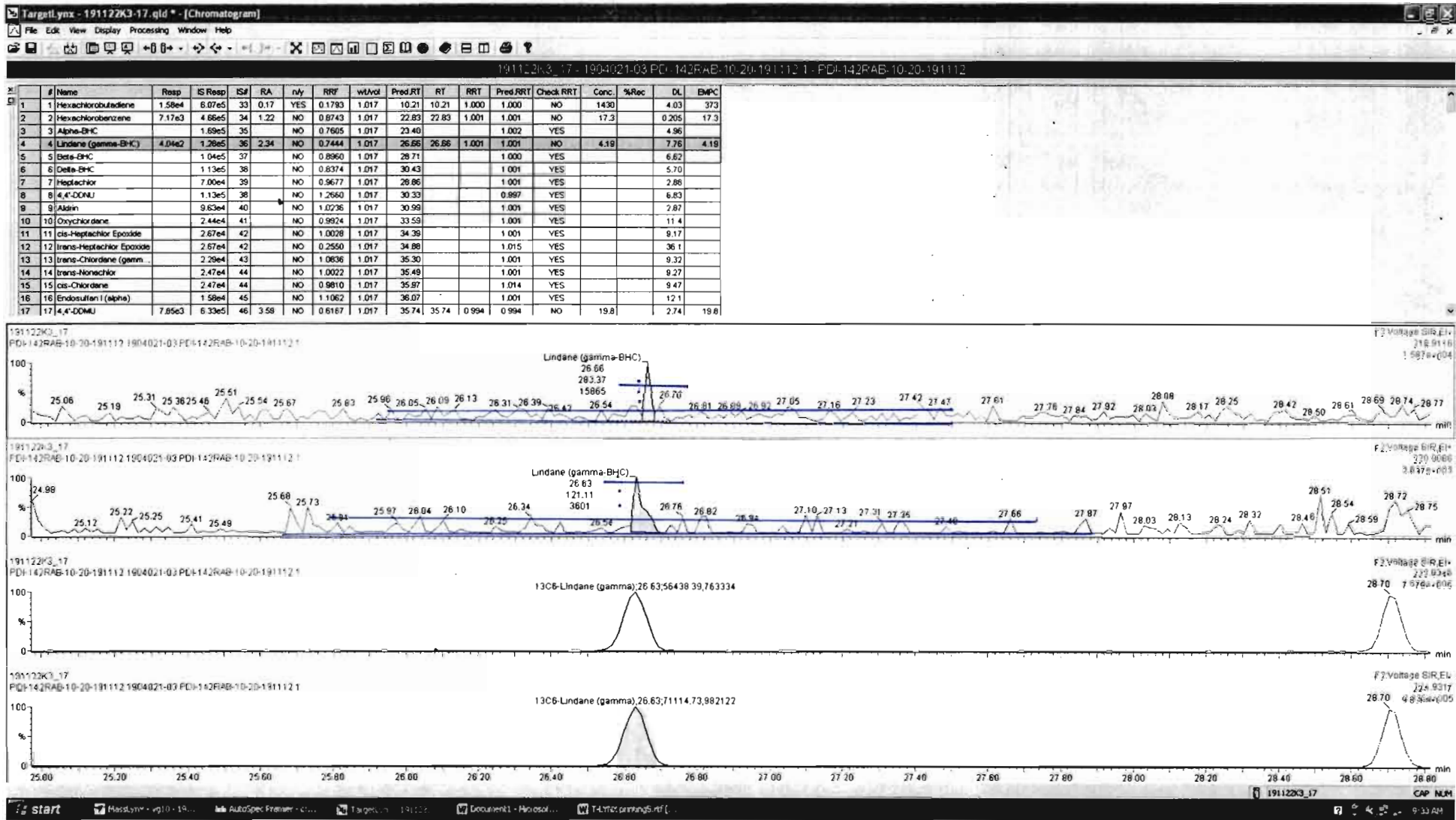
13C6-Lindane (gamma)

191122K3_17



191122K3_17





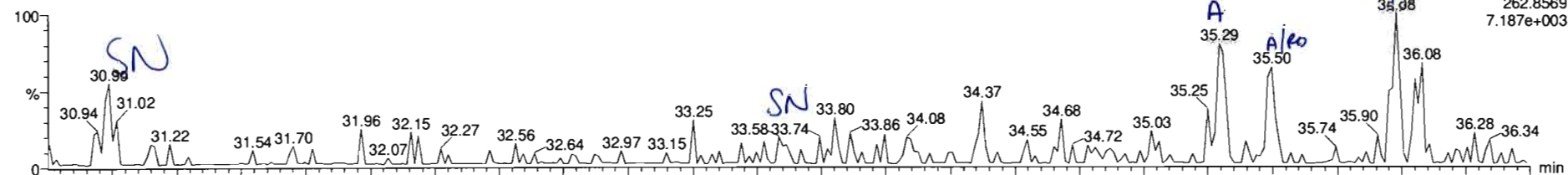
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Printed: Monday, November 25, 2019 11:23:53 Pacific Standard Time

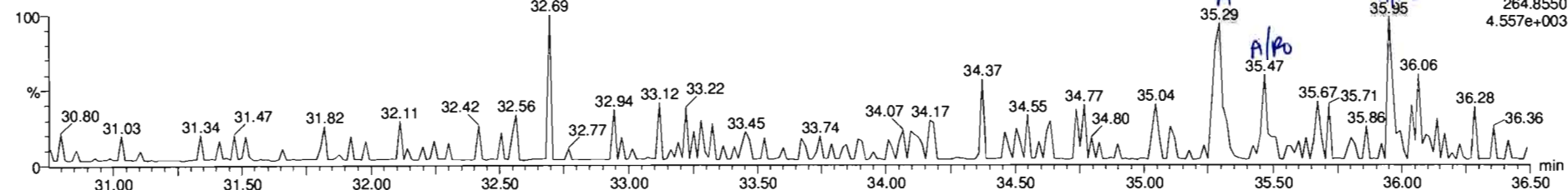
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Aldrin-EI

191122K3_17

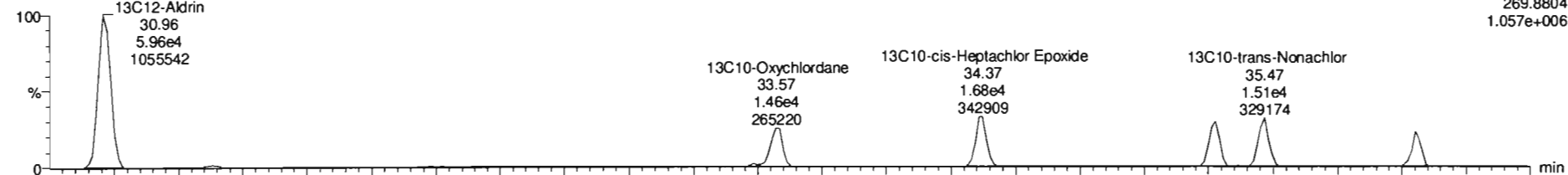


191122K3_17

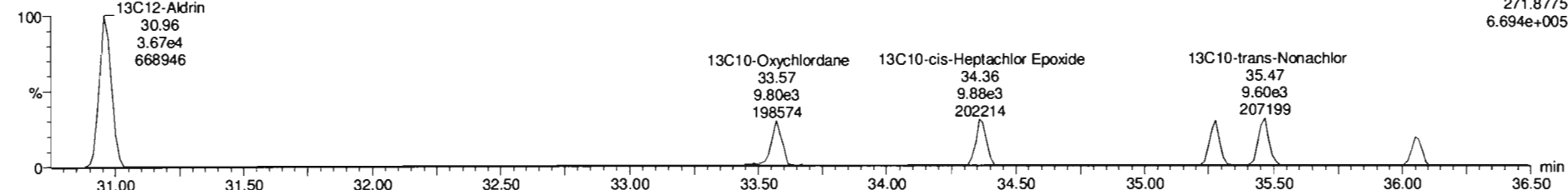


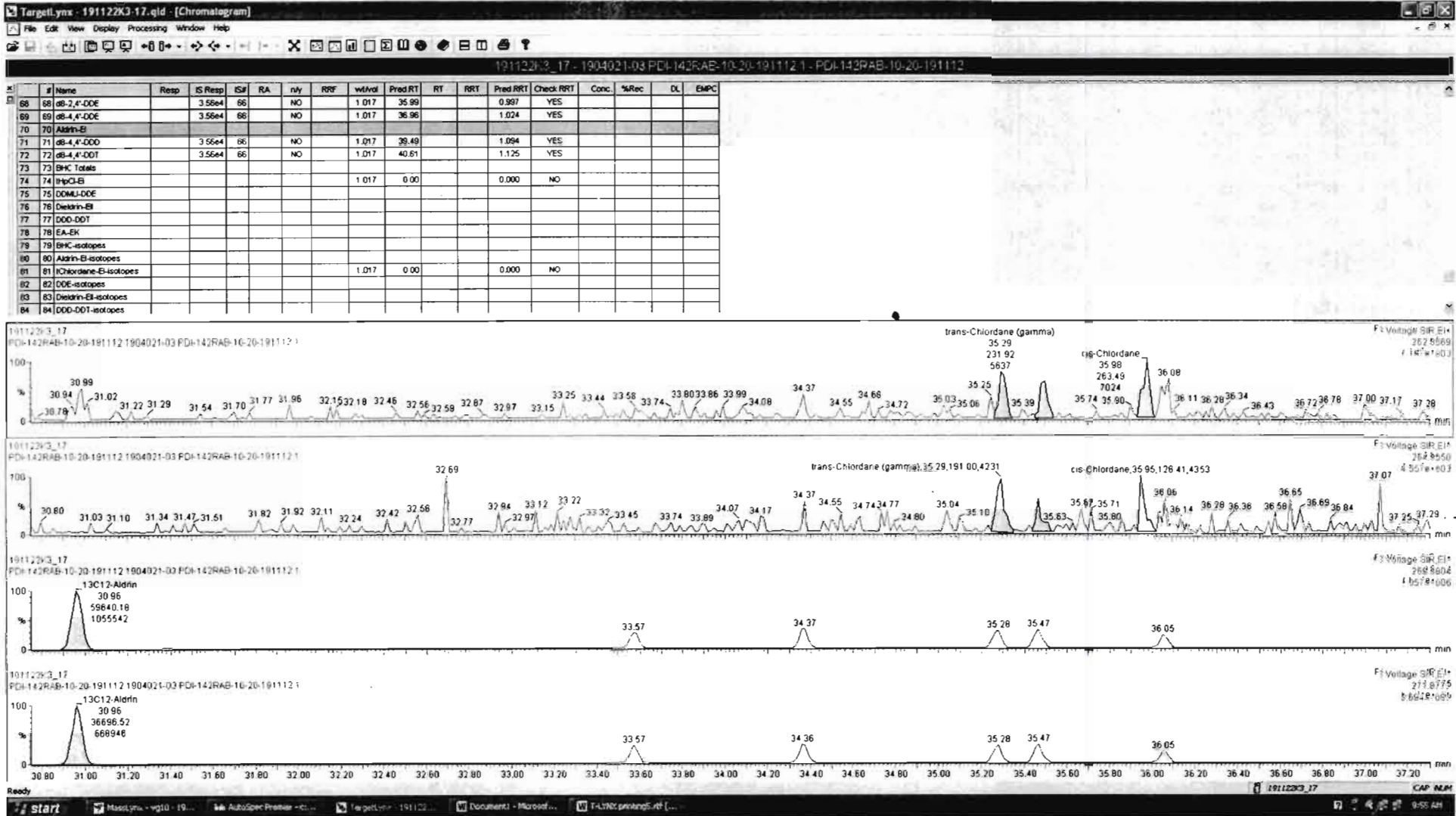
Aldrin-EI-isotopes

191122K3_17



191122K3_17





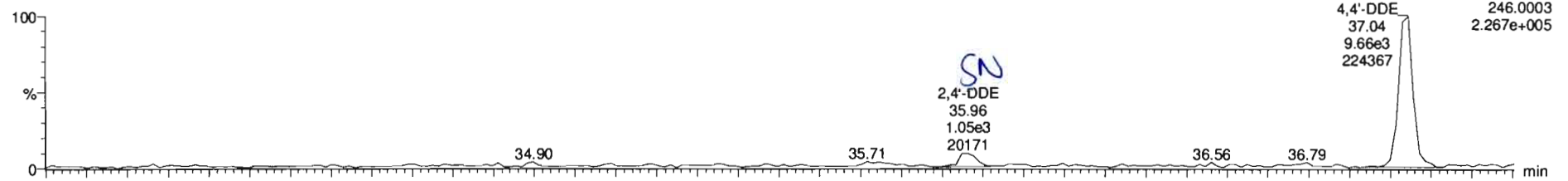
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Printed: Monday, November 25, 2019 11:23:53 Pacific Standard Time

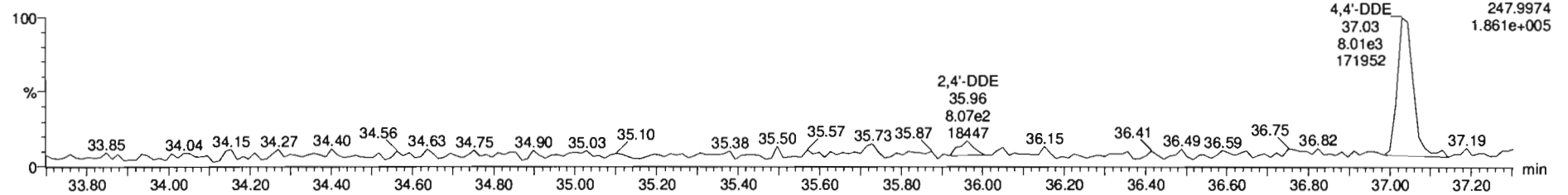
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DDMU-DDE

191122K3_17

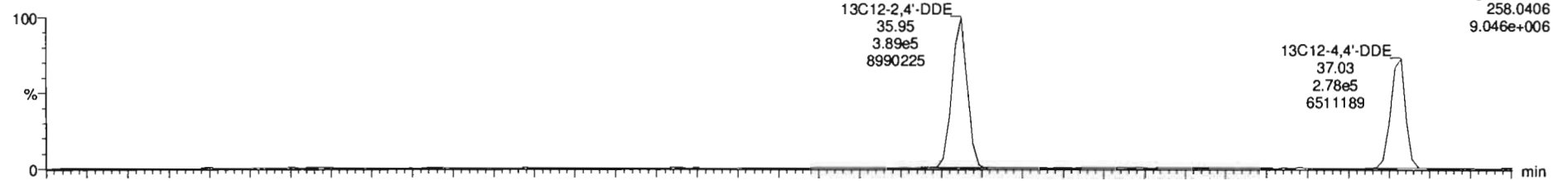


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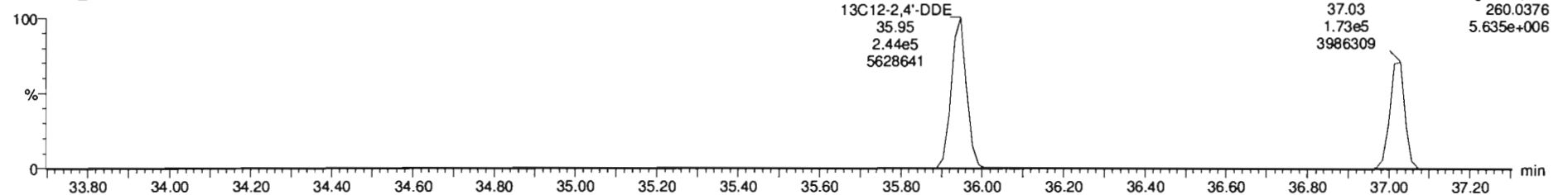


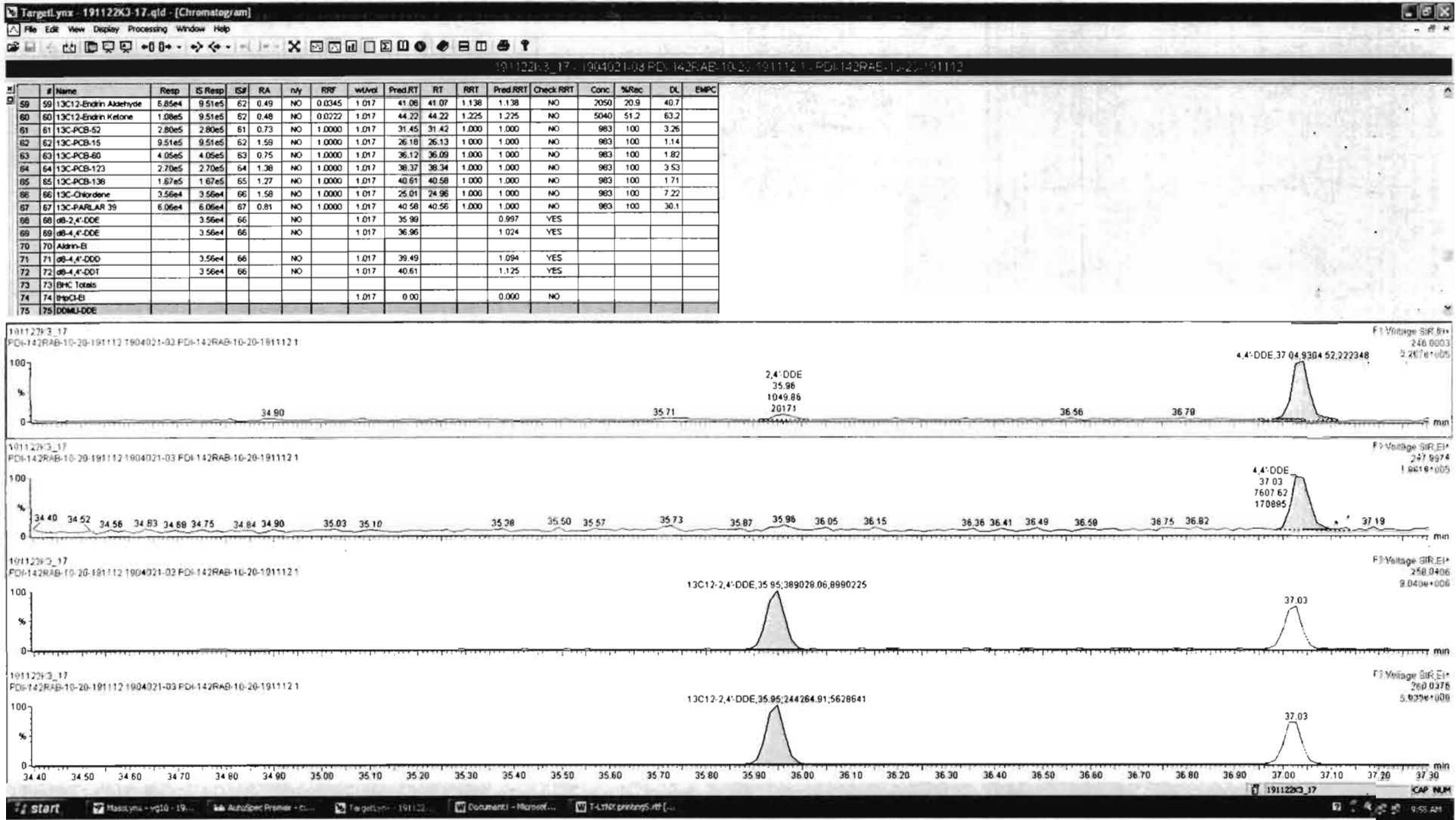
DDE-isotopes

191122K3_17



191122K3_17



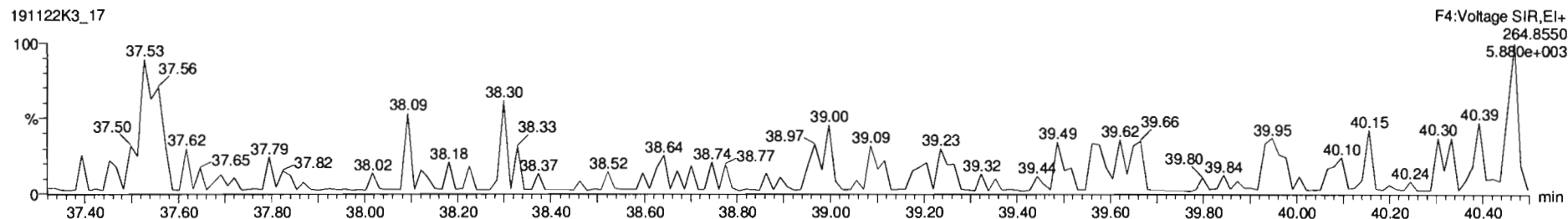
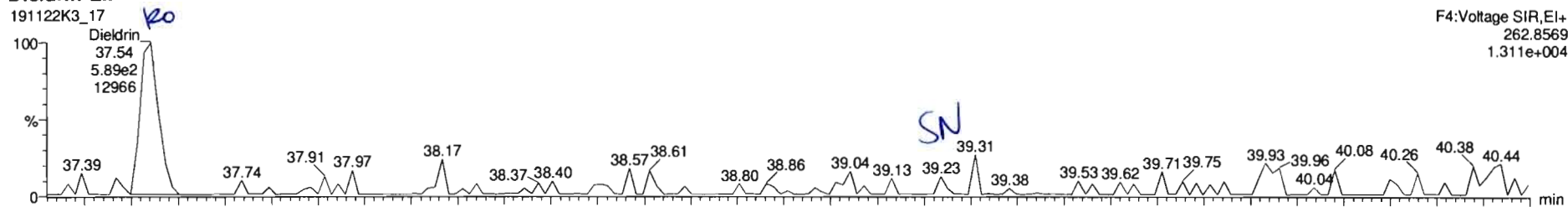


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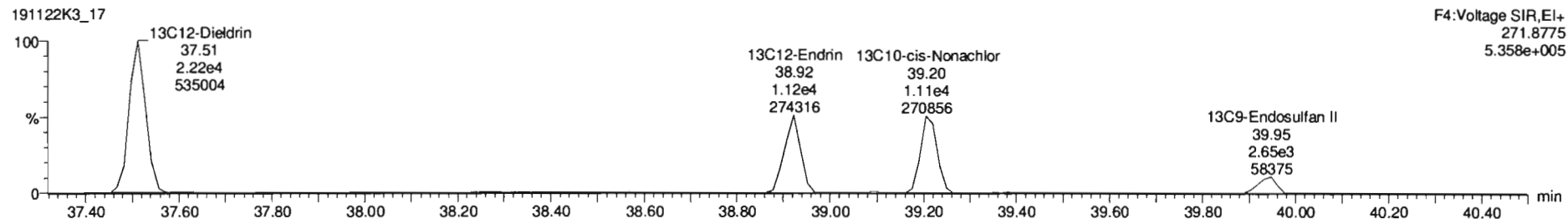
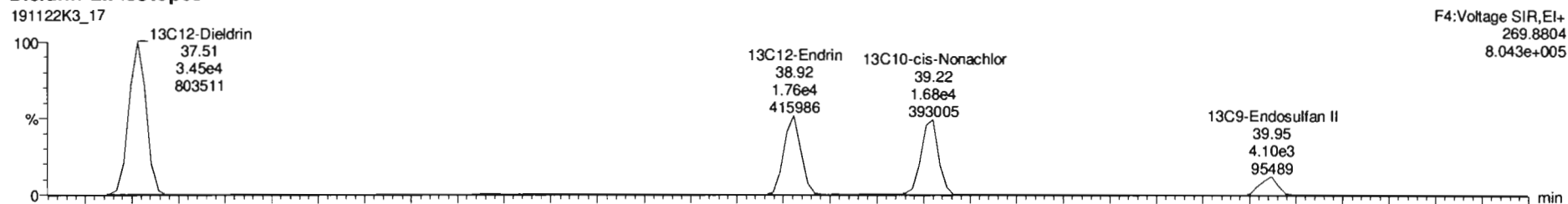
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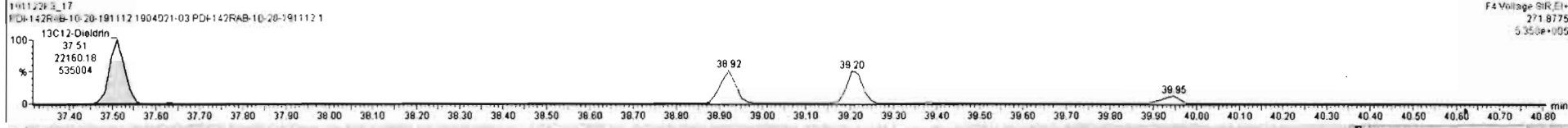
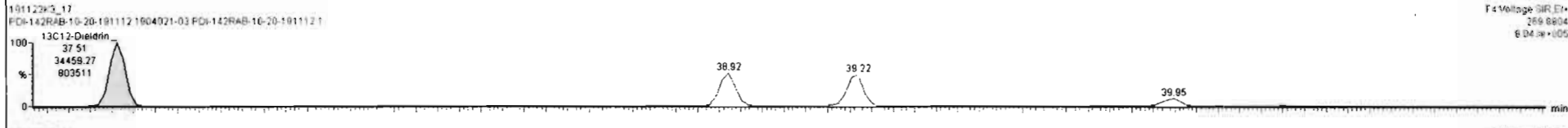
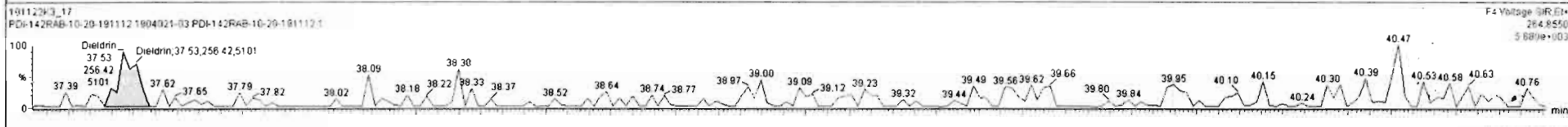
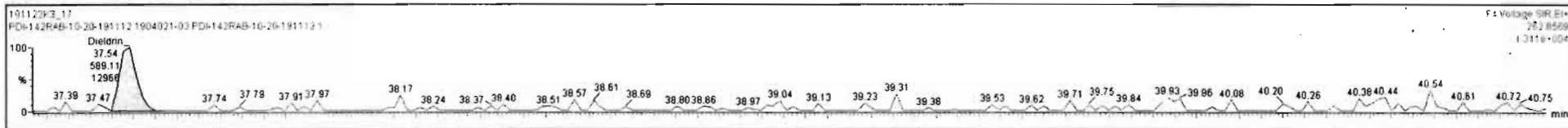
Dieldrin-EII



Dieldrin-EII-isotopes



#	Name	Resp	IS Resp	ISF	RA	nly	RRF	wt/Vol	Pred.RT	RT	RRT	Pred.RRT	Check RRT	Conc.	%Rec	DL	EMPC
75	DOML-DDE																
76	Dieldrin-EI																
77	DDO-DDT																
78	EA-EK																
79	BHC-isotopes																
80	Aldrin-EI-isotopes																
81	Chlordane-EI-isotopes						1.017	0.00				0.000	NO				
82	DDE-isotopes																
83	Dieldrin-EI-isotopes																
84	DDO-DDT-isotopes																
85	EA-EK-isotopes																
86	PFK1	8.42e4					31969	1.000	0.00	9.26	0.000	0.000	YES	0.264	26.4	0.0531	
87	PFK2																
88	PFK3																
89	PFK4	3.22e5					14185	1.000	0.00	37.90	1.000	0.000	NO	0.227	22.7	0.0627	
90	PFK5	2.56e4					11747	1.000	0.00	42.44	1.120	0.000	YES	0.218	21.8	0.362	



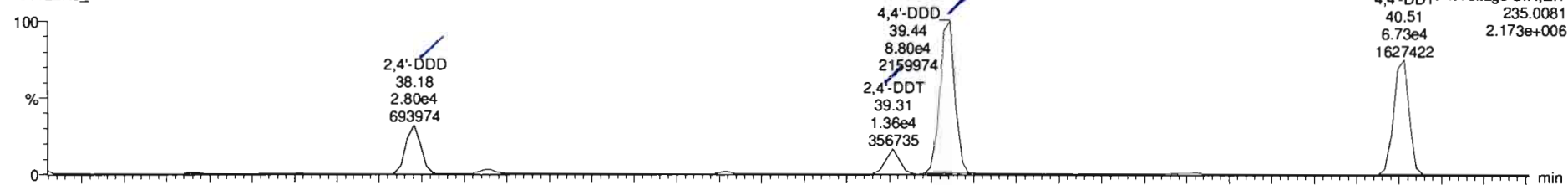
Dataset: Untitled

Last Altered: Monday, November 25, 2019 11:01:53 Pacific Standard Time
Printed: Monday, November 25, 2019 11:23:53 Pacific Standard Time

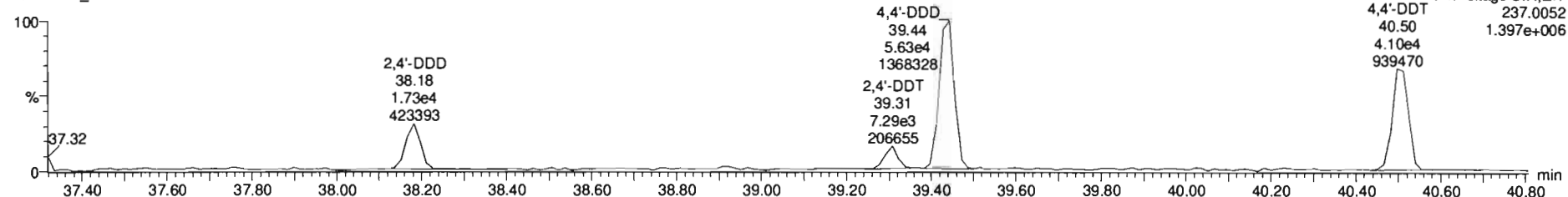
Name: 191122K3_17, Date: 23-Nov-2019, Time: 05:11:17, ID: 1904021-03 PDI-142RAB-10-20-191112 1, Description: PDI-142RAB-10-20-191112

DDD-DDT

191122K3_17

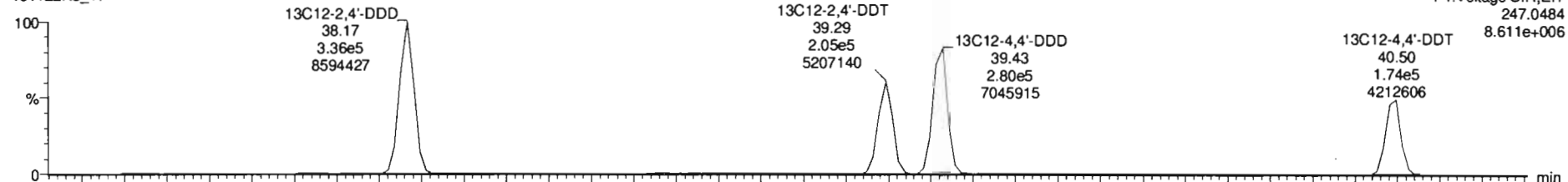


191122K3_17

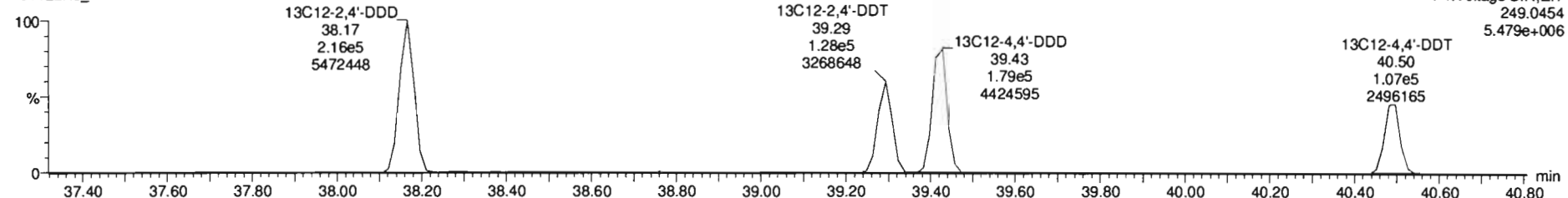


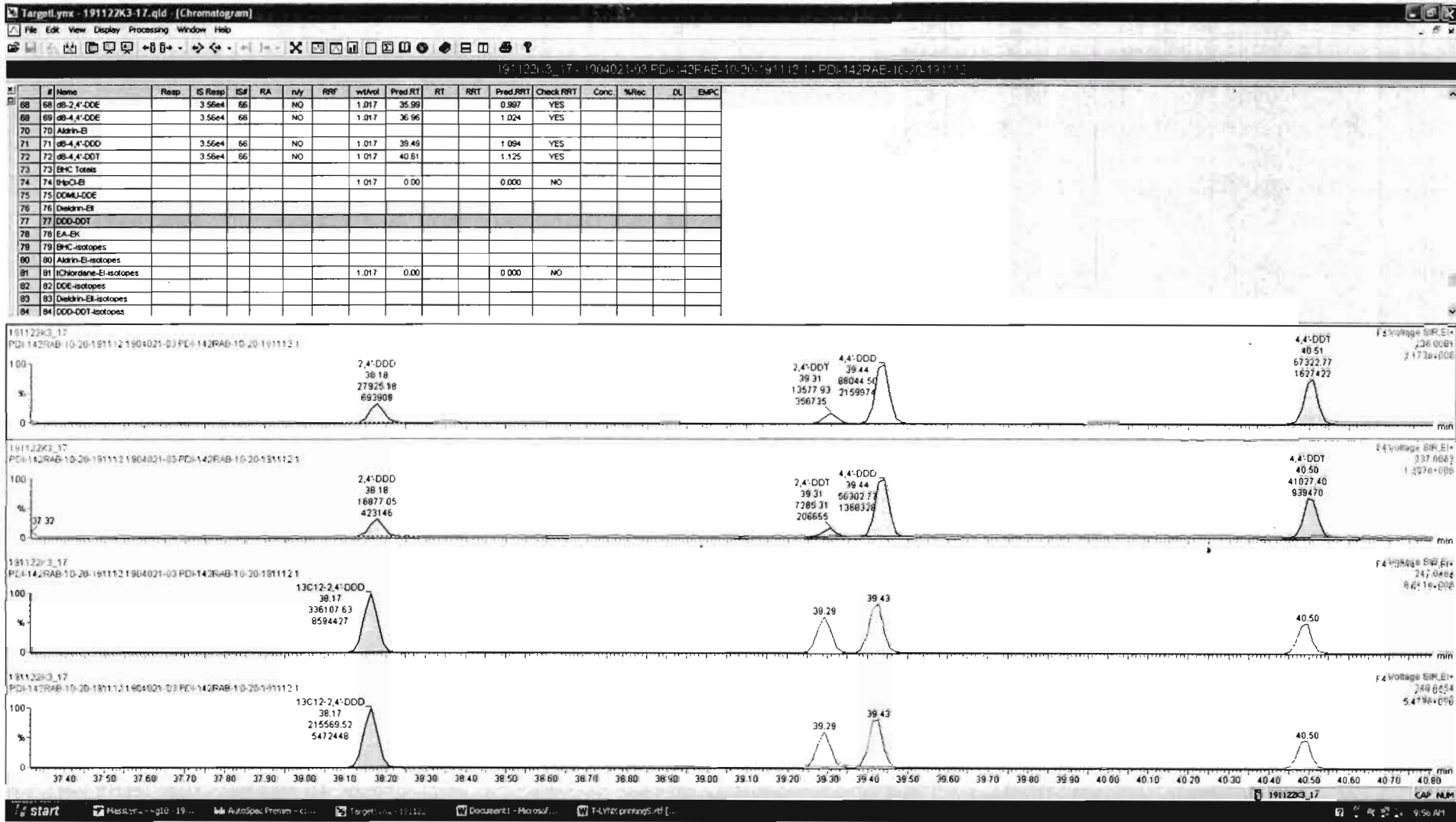
DDD-DDT-isotopes

191122K3_17



191122K3_17





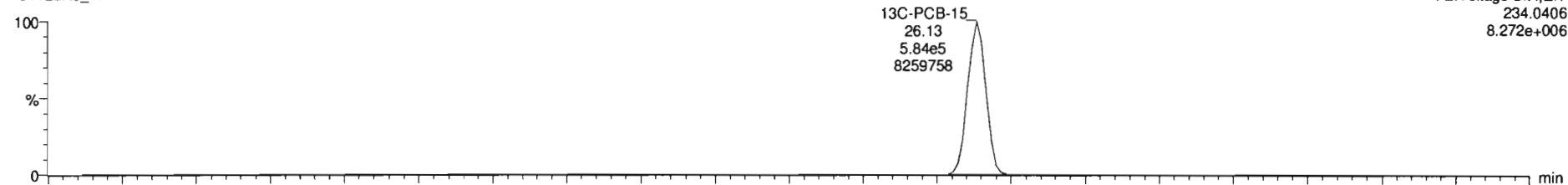
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Last Altered: Monday, November 25, 2019 11:01:53 Pacific Standard Time
Printed: Monday, November 25, 2019 11:23:53 Pacific Standard Time

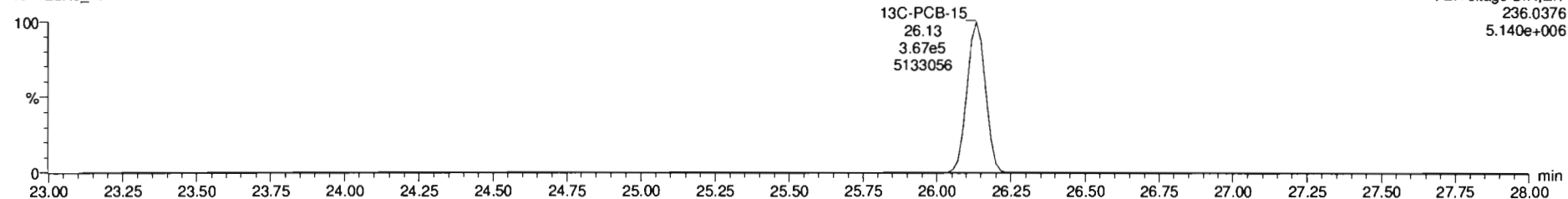
Name: 191122K3_17, Date: 23-Nov-2019, Time: 05:11:17, ID: 1904021-03 PDI-142RAB-10-20-191112 1, Description: PDI-142RAB-10-20-191112

13C-PCB-15

191122K3_17

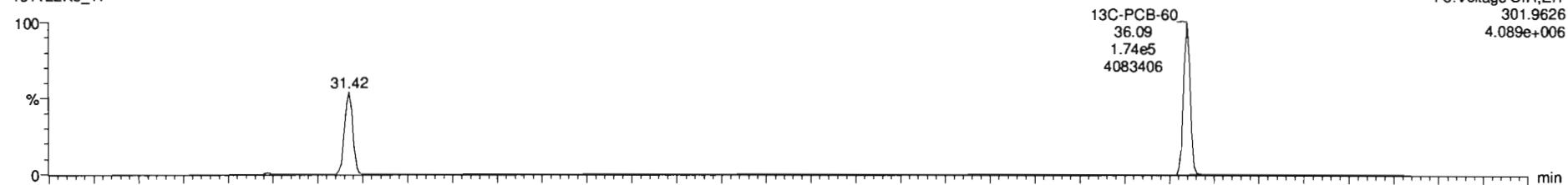


191122K3_17

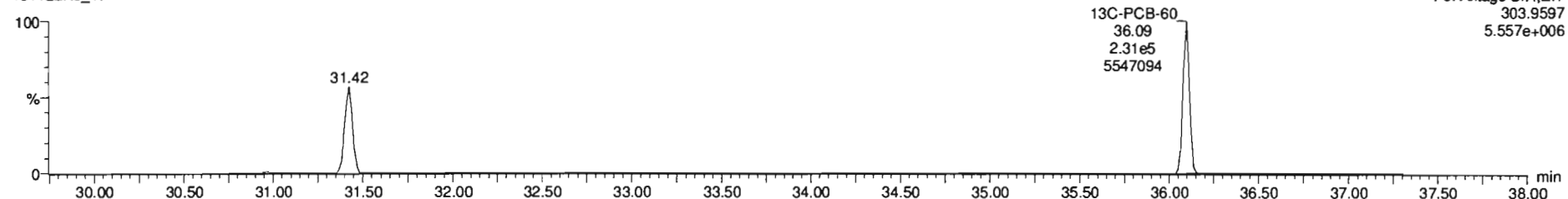


13C-PCB-60

191122K3_17



191122K3_17



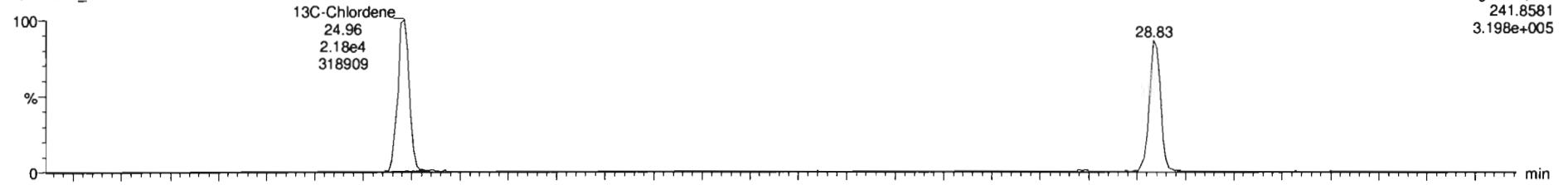
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Last Altered: Monday, November 25, 2019 11:01:53 Pacific Standard Time
Printed: Monday, November 25, 2019 11:23:53 Pacific Standard Time

Name: 191122K3_17, Date: 23-Nov-2019, Time: 05:11:17, ID: 1904021-03 PDI-142RAB-10-20-191112 1, Description: PDI-142RAB-10-20-191112

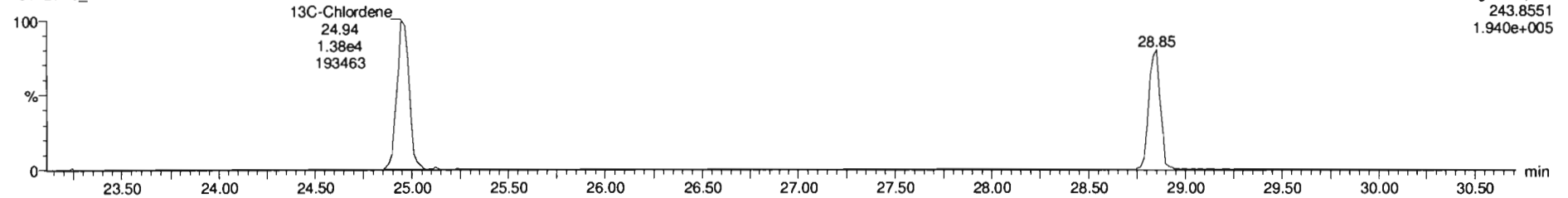
13C-Chlordene

191122K3_17



F2:Voltage SIR,EI+
241.8581
3.198e+005

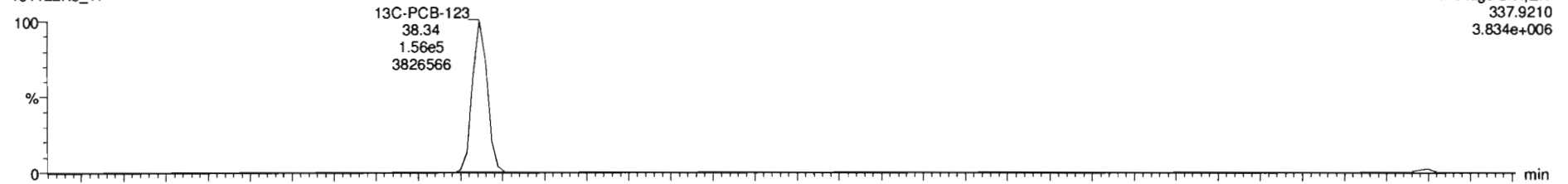
191122K3_17



F2:Voltage SIR,EI+
243.8551
1.940e+005

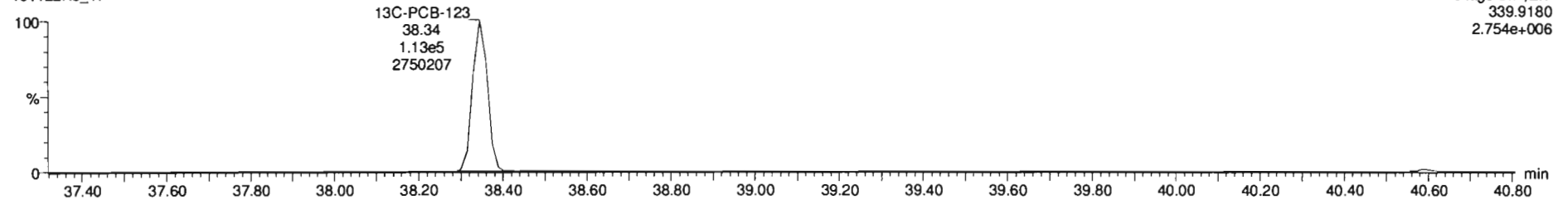
13C-PCB-123

191122K3_17



F4:Voltage SIR,EI+
337.9210
3.834e+006

191122K3_17



F4:Voltage SIR,EI+
339.9180
2.754e+006

Dataset: Untitled

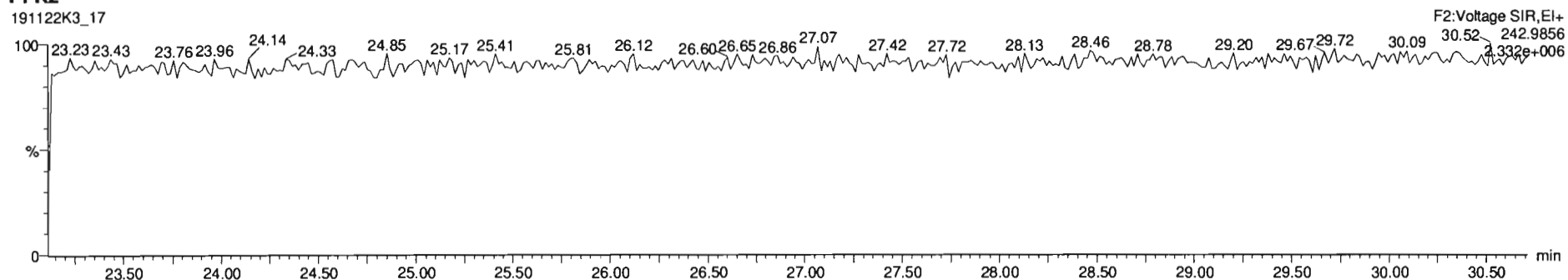
Last Altered: Monday, November 25, 2019 11:01:53 Pacific Standard Time

Printed: Monday, November 25, 2019 11:23:53 Pacific Standard Time

Name: 191122K3_17, Date: 23-Nov-2019, Time: 05:11:17, ID: 1904021-03 PDI-142RAB-10-20-191112 1, Description: PDI-142RAB-10-20-191112

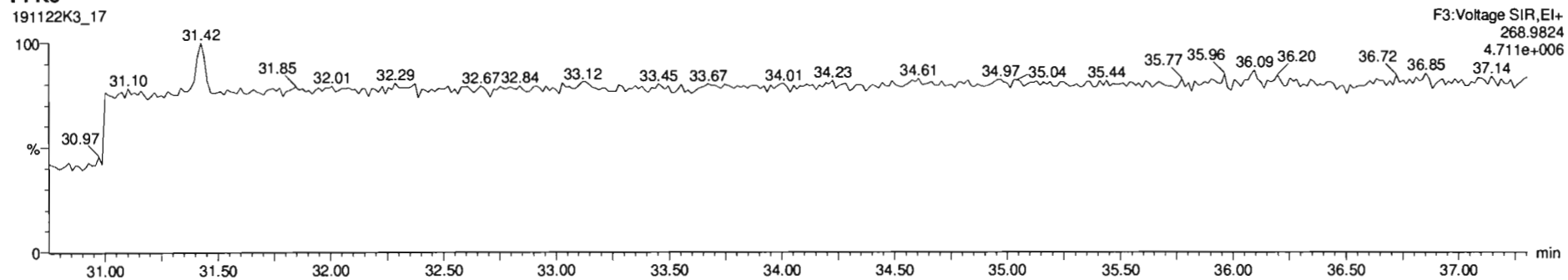
PFK2

191122K3_17



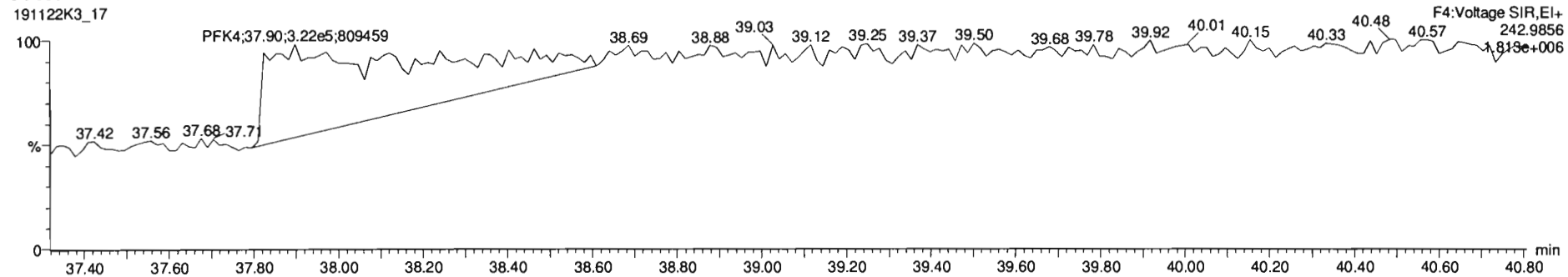
PFK3

191122K3_17



PFK4

191122K3_17



Dataset: U:\VG11.PRO\Results\200201K2\200201K2-13.qld

Last Altered: Monday, February 03, 2020 12:06:34 Pacific Standard Time

Printed: Monday, February 03, 2020 12:07:27 Pacific Standard Time

h 2-3-2020

C1 02/04/2020

Method: U:\VG11.PRO\MethDB\1699rrt-01-25-2020.mdb 25 Jan 2020 13:55:51

Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-1-25-20-LIMITED.cdb 27 Jan 2020 09:02:26

Name: 200201K2_13, Date: 01-Feb-2020, Time: 23:44:36, ID: 1904021-04RE2 PDI-142RAB-20-30.4-191112 1.15, Description: PDI-142RAB-20-30.4-191112

#	Name	Resp	IS Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	RRT Fail	Conc	%Rec	DL	EMPC
1	4 Lindane (gamma-BHC)		2.29e5		NO	0.869	1.013	26.49			1.001	YES			41.8	
2	9 Aldrin	4.91e2	8.27e4	1.98	YES	1.11	1.013	30.77	30.77	1.001	1.001	NO	26.4		36.2	22.7
3	10 Oxychlordane		4.09e4		NO	1.09	1.013	33.36			1.001	YES			65.1	
4	13 trans-Chlordane (gam...	2.04e3	3.69e4	1.76	NO	1.18	1.013	35.05	35.06	1.001	1.001	NO	232		63.9	232
5	14 trans-Nonachlor	9.82e2	4.35e4	1.61	NO	1.08	1.013	35.24	35.26	1.001	1.001	NO	104		60.7	104
6	15 cis-Chlordane	2.76e3	4.35e4	1.70	NO	1.11	1.013	35.72	35.73	1.014	1.014	NO	283		58.9	283
7	18 2,4'-DDE	1.80e4	9.94e5	1.24	NO	0.984	1.013	35.71	35.72	1.000	1.000	NO	90.8		13.7	90.8
8	19 4,4'-DDE	9.83e4	7.39e5	1.32	NO	0.996	1.013	36.80	36.80	1.000	1.000	NO	659		18.4	659
9	20 Dieldrin	4.10e3	8.95e4	1.63	NO	1.09	1.013	37.30	37.30	1.000	1.000	NO	207		47.1	207
10	22 cis-Nonachlor		4.72e4		NO	1.08	1.013	38.97			1.000	YES			75.3	

Dataset: U:\VG11.PRO\Results\200201K2\200201K2-13.qld

Last Altered: Monday, February 03, 2020 12:06:34 Pacific Standard Time

Printed: Monday, February 03, 2020 12:07:33 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1699rrt-01-25-2020.mdb 25 Jan 2020 13:55:51

Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-1-25-20-LIMITED.cdb 27 Jan 2020 09:02:26

Name: 200201K2_13, Date: 01-Feb-2020, Time: 23:44:36, ID: 1904021-04RE2 PDI-142RAB-20-30.4-191112 1.15, Description: PDI-142RAB-20-30.4-191112

	#-Name	Resp	IS Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	RRT Fail	Conc	%Rec	DL	EMPC
1	24 2,4'-DDD	2.80e5	9.11e5	1.44	NO	1.05	1.013	37.91	37.92	1.000	1.000	NO	1450		24.9	1450
2	25 2,4'-DDT	5.21e4	5.57e5	1.78	NO	1.03	1.013	39.05	39.05	1.000	1.000	NO	448		39.3	448
3	26 4,4'-DDD	9.08e5	7.69e5	1.56	NO	1.12	1.013	39.19	39.18	1.000	1.000	NO	5180		24.8	5180
4	27 4,4'-DDT	1.62e5	4.34e5	1.47	NO	1.13	1.013	40.26	40.25	1.000	1.000	NO	1630		47.2	1630
5	36 13C6-Lindane (gamma)	2.29e5	1.39e6	0.78	NO	0.201	1.013	26.44	26.46	1.019	1.018	NO	4070	82.5	27.9	
6	40 13C12-Aldrin	8.27e4	1.39e6	1.59	NO	0.130	1.013	30.76	30.74	1.184	1.185	NO	2260	45.8	34.9	
7	41 13C10-Oxychlorane	4.09e4	1.39e6	1.69	NO	0.0314	1.013	33.36	33.34	1.284	1.285	NO	4640	94.0	145	

Dataset: U:\VG11.PRO\Results\200201K2\200201K2-13.qld

Last Altered: Monday, February 03, 2020 12:06:34 Pacific Standard Time

Printed: Monday, February 03, 2020 12:07:40 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1699rrt-01-25-2020.mdb 25 Jan 2020 13:55:51

Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-1-25-20-LIMITED.cdb 27 Jan 2020 09:02:26

Name: 200201K2_13, Date: 01-Feb-2020, Time: 23:44:36, ID: 1904021-04RE2 PDI-142RAB-20-30.4-191112 1.15, Description: PDI-142RAB-20-30.4-191112

	#-Name	Resp	IS Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	RRT Fail	Conc	%Rec	DL	EMPC
1	43 13C10-trans-Chlordan...	3.69e4	1.39e6	1.60	NO	0.0281	1.013	35.06	35.03	1.349	1.350	NO	4680	94.8	162	
2	44 13C10-trans-Nonachlor	4.35e4	1.39e6	1.69	NO	0.0330	1.013	35.25	35.22	1.357	1.357	NO	4700	95.1	138	
3	46 13C12-2,4'-DDE	9.94e5	1.39e6	1.57	NO	0.765	1.013	35.69	35.70	0.996	0.995	NO	4630	93.7	26.7	
4	47 13C12-4,4'-DDE	7.39e5	1.39e6	1.61	NO	0.556	1.013	36.77	36.78	1.026	1.025	NO	4740	95.9	36.8	
5	48 13C12-Dieldrin	8.95e4	1.39e6	1.60	NO	0.0759	1.013	37.28	37.28	1.040	1.040	NO	4200	85.1	124	
6	50 13C10-cis-Nonachlor	4.72e4	1.39e6	1.56	NO	0.0389	1.013	38.97	38.96	1.086	1.087	NO	4320	87.6	243	
7	52 13C12-2,4'-DDD	9.11e5	1.39e6	1.66	NO	0.754	1.013	37.93	37.91	1.460	1.461	NO	4300	87.1	64.4	
8	53 13C12-2,4'-DDT	5.57e5	1.39e6	1.65	NO	0.519	1.013	39.06	39.03	1.503	1.504	NO	3830	77.5	93.6	
9	54 13C12-4,4'-DDD	7.69e5	1.39e6	1.62	NO	0.662	1.013	39.18	39.17	1.509	1.509	NO	4140	83.8	73.4	
10	55 13C12-4,4'-DDT	4.34e5	1.39e6	1.64	NO	0.419	1.013	40.26	40.24	1.550	1.551	NO	3690	74.7	116	
11	62 13C-PCB-15	1.39e6	1.39e6	1.59	NO	1.00	1.013	25.96	25.96	1.000	1.000	NO	4940	100	12.8	

Dataset: U:\VG11.PRO\Results\200201K2\200201K2-13.qld

Last Altered: Monday, February 03, 2020 11:33:58 Pacific Standard Time
Printed: Monday, February 03, 2020 12:00:53 Pacific Standard Time

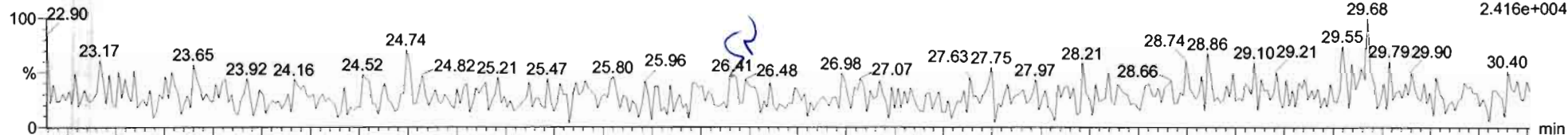
Method: U:\VG11.PRO\MethDB\1699rrt-01-25-2020.mdb 25 Jan 2020 13:55:51
Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-1-25-20-LIMITED.cdb 27 Jan 2020 09:02:26

Name: 200201K2_13, Date: 01-Feb-2020, Time: 23:44:36, ID: 1904021-04RE2 PDI-142RAB-20-30.4-191112 1.15, Description: PDI-142RAB-20-30.4-191112

BHC Totals

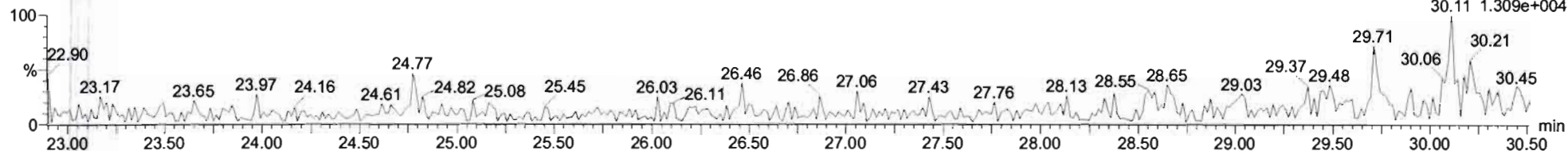
200201K2_13
PDI-142RAB-20-30.4-191112 1904021-04RE2 PDI-142RAB-20-30.4-191112 1.15

F2:Voltage SIR,EI+
218.9116
2.416e+004



200201K2_13
PDI-142RAB-20-30.4-191112 1904021-04RE2 PDI-142RAB-20-30.4-191112 1.15

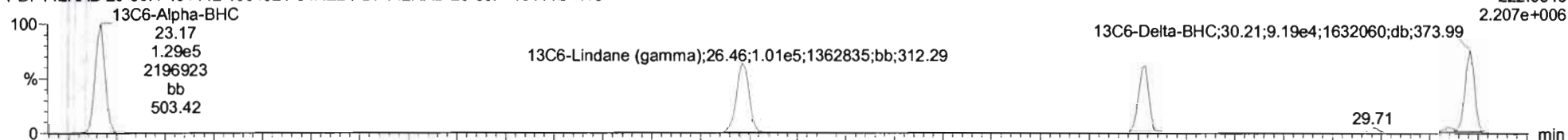
F2:Voltage SIR,EI+
220.9086
30.11 1.309e+004



BHC-isotopes

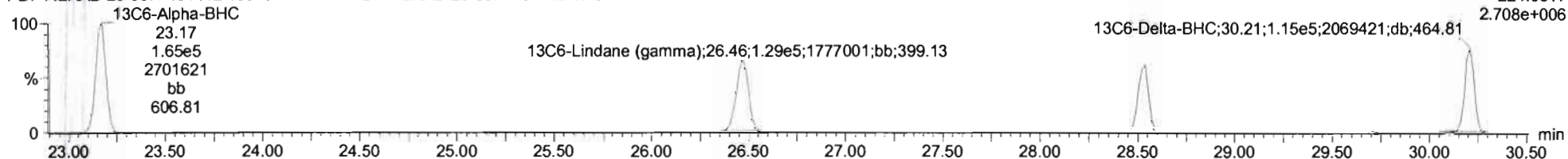
200201K2_13
PDI-142RAB-20-30.4-191112 1904021-04RE2 PDI-142RAB-20-30.4-191112 1.15

F2:Voltage SIR,EI+
222.9346
2.207e+006



200201K2_13
PDI-142RAB-20-30.4-191112 1904021-04RE2 PDI-142RAB-20-30.4-191112 1.15

F2:Voltage SIR,EI+
224.9317
2.708e+006



Dataset: U:\VG11.PRO\Results\200201K2\200201K2-13.qld

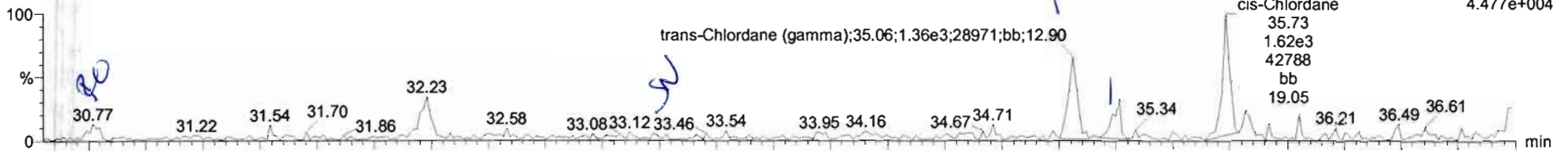
Last Altered: Monday, February 03, 2020 11:33:58 Pacific Standard Time
Printed: Monday, February 03, 2020 12:00:53 Pacific Standard Time

Name: 200201K2_13, Date: 01-Feb-2020, Time: 23:44:36, ID: 1904021-04RE2 PDI-142RAB-20-30.4-191112 1.15, Description: PDI-142RAB-20-30.4-191112

Aldrin-EI

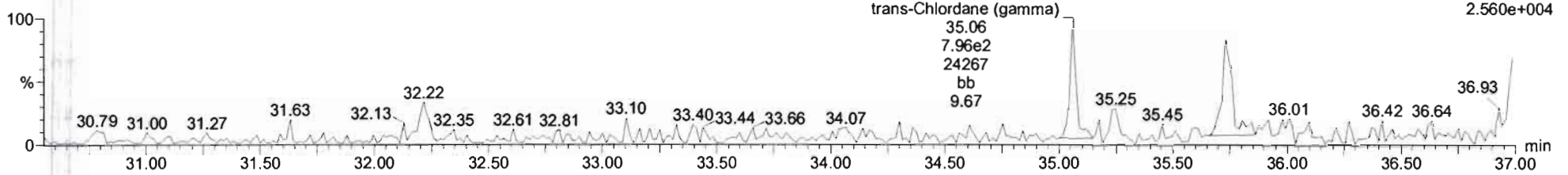
200201K2_13
PDI-142RAB-20-30.4-191112 1904021-04RE2 PDI-142RAB-20-30.4-191112 1.15

F3:Voltage SIR,EI+
262.8569
4.477e+004



200201K2_13
PDI-142RAB-20-30.4-191112 1904021-04RE2 PDI-142RAB-20-30.4-191112 1.15

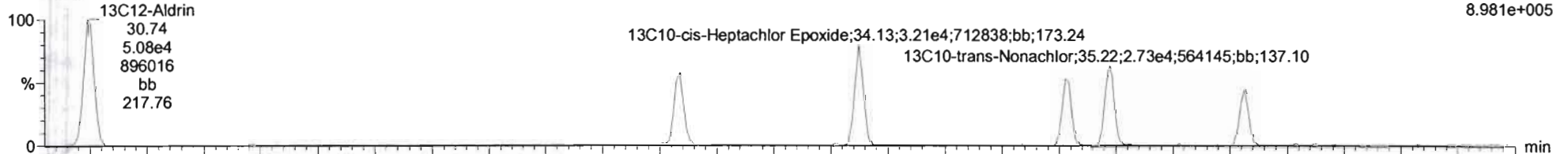
F3:Voltage SIR,EI+
264.8550
2.560e+004



Aldrin-EI-isotopes

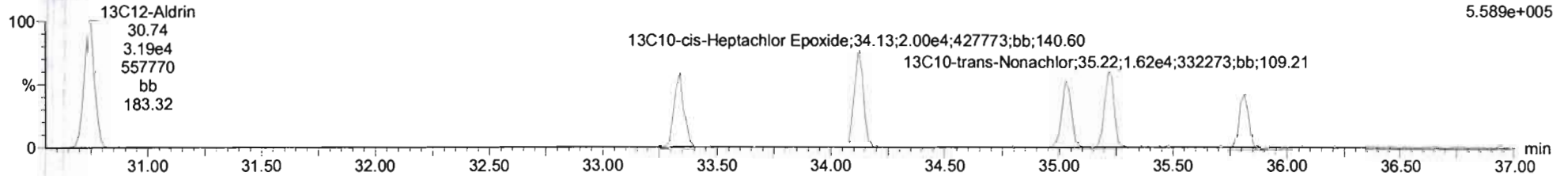
200201K2_13
PDI-142RAB-20-30.4-191112 1904021-04RE2 PDI-142RAB-20-30.4-191112 1.15

F3:Voltage SIR,EI+
269.8804
8.981e+005

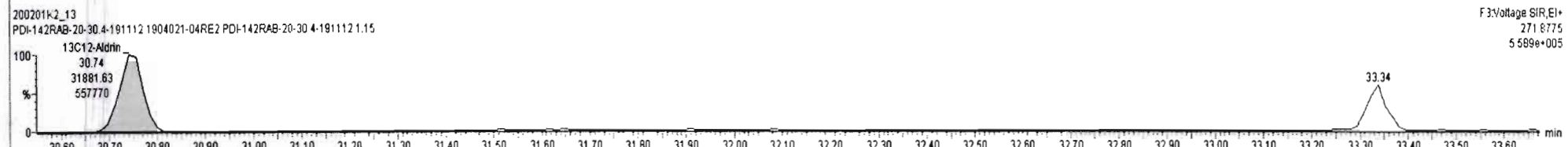
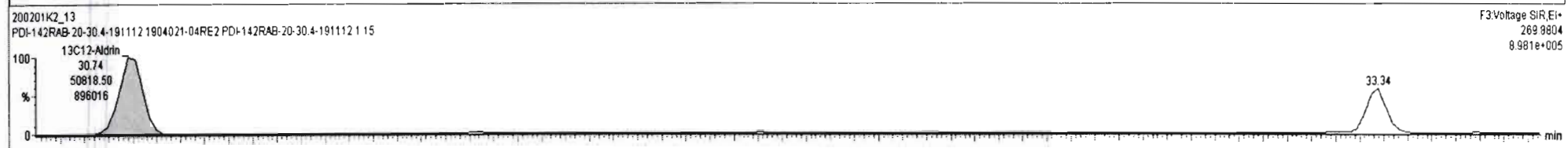
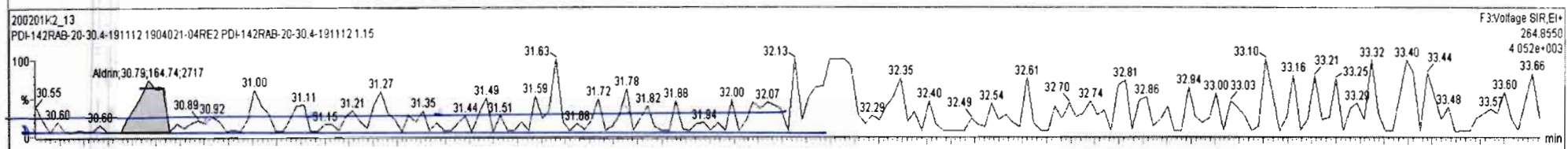
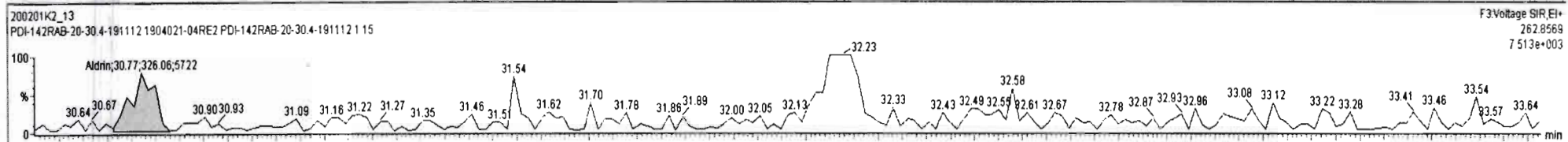


200201K2_13
PDI-142RAB-20-30.4-191112 1904021-04RE2 PDI-142RAB-20-30.4-191112 1.15

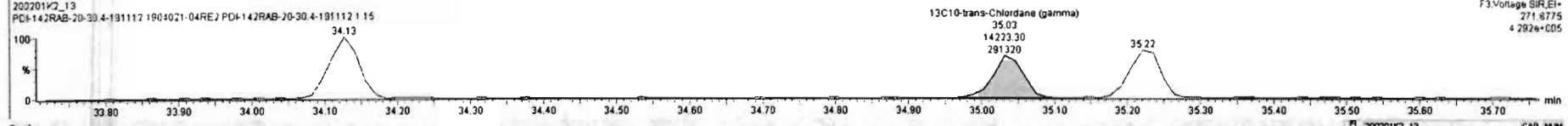
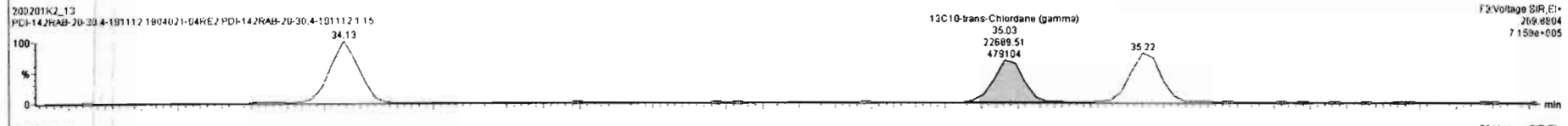
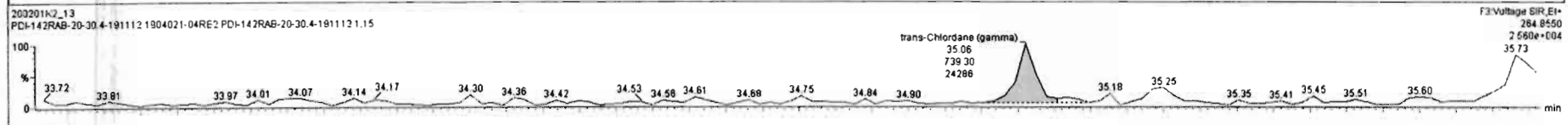
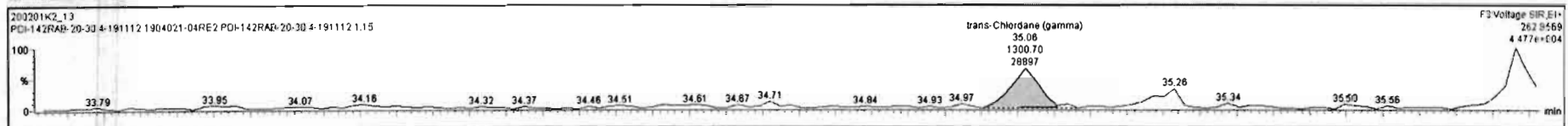
F3:Voltage SIR,EI+
271.8775
5.589e+005



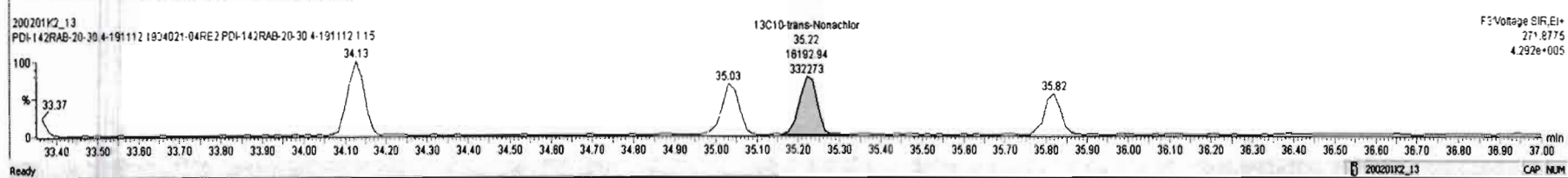
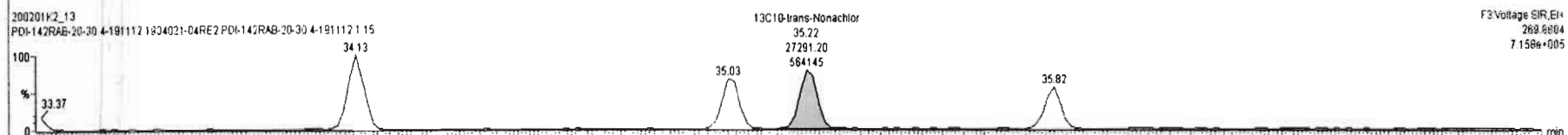
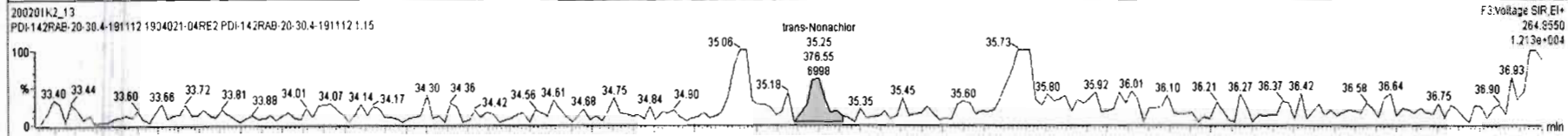
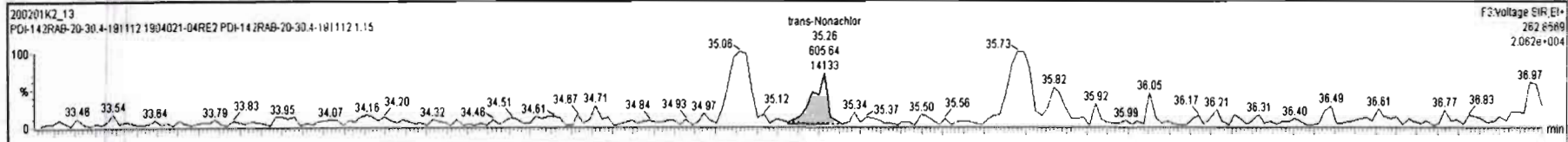
#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	Hexachlorobutadiene	1.26e4	1.30e6	33	0.14	YES	0.0339	1.013	9.98	9.98	1.000	1.000	NO	14100		80.1	3090
2	Hexachlorobenzene	1.04e4	8.09e5	34	1.21	NO	0.9969	1.013	22.66	22.85	1.001	1.001	NO	53.8		0.910	63.8
3	Alpha-BHC		2.94e5	35		NO	0.8617	1.013	23.21				1.002	YES			26.2
4	Lindane (gamma-BHC)		2.29e5	36		NO	0.8630	1.013	26.49				1.001	YES			41.8
5	Beta-BHC		1.83e5	37		NO	1.0173	1.013	28.54				1.000	YES			37.2
6	Delta-BHC		2.07e5	38		NO	0.9521	1.013	30.23				1.001	YES			32.2
7	Heptachlor		1.48e5	39		NO	1.0787	1.013	28.66				1.001	YES			11.1
8	4,4'-DDNU	1.22e3	2.07e5	38		NO	1.2643	1.013	30.12	30.13	0.997	0.997	NO	23.0		31.8	0.000
9	Aldrin	4.91e2	8.27e4	40	1.98	YES	1.1111	1.013	30.77	30.77	1.001	1.001	NO	26.4		36.2	22.7
10	Oxychlorane		4.09e4	41		NO	1.0939	1.013	33.36				1.001	YES			65.1
11	cis-Heptachlor Epoxide		5.21e4	42		NO	1.1318	1.013	34.15				1.001	YES			44.8
12	trans-Heptachlor Epoxide		5.21e4	42		NO	0.2603	1.013	34.63				1.015	YES			195
13	trans-Chlordane (gamm...	2.15e3	3.69e4	43	1.70	NO	1.1780	1.013	35.05	35.06	1.001	1.001	NO	245		63.9	245
14	trans-Nonachlor	5.77e2	4.35e4	44		NO	1.0766	1.013	35.24	35.26	1.001	1.001	NO	60.9		60.7	0.000
15	cis-Chlordane	2.67e3	4.35e4	44	1.56	NO	1.1080	1.013	35.72	35.73	1.014	1.014	NO	273		58.9	273
16	Endosulfan I (alpha)		2.89e4	45		NO	1.1552	1.013	35.84				1.001	YES			79.2
17	4,4'-DDNU	3.25e4	9.94e5	46	3.42	NO	0.6758	1.013	35.49	35.50	0.994	0.994	NO	239		22.8	239



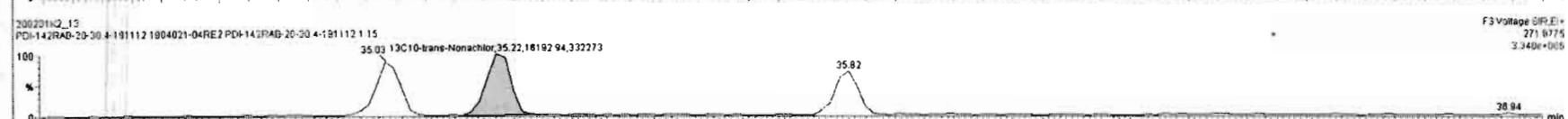
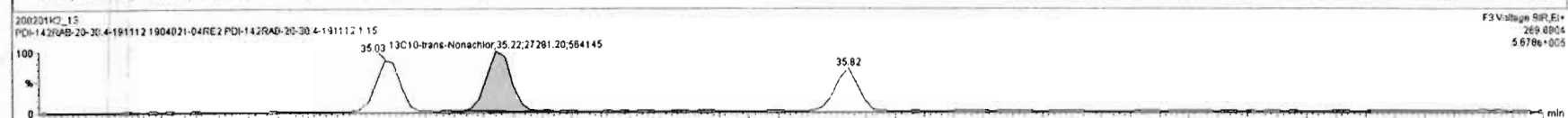
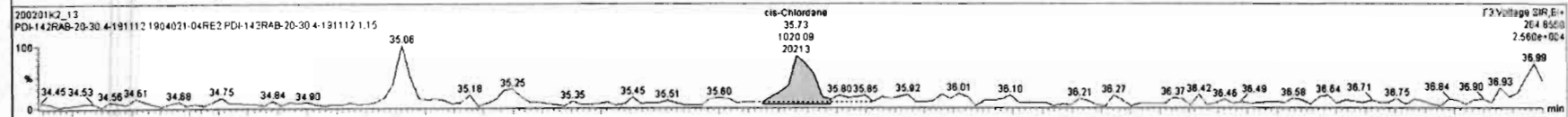
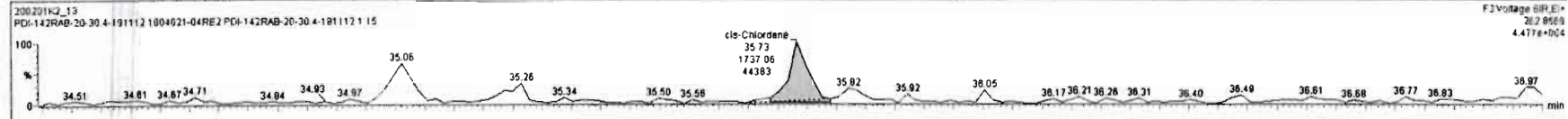
#	Name	Resp	IS Resp	ISF	RA	n/y	RRF	wtAval	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	Hexachlorobutadiene	1.26e4	1.30e6	33	0.14	YES	0.0339	1.013	9.96	9.96	1.000	1.000	NO	14100		80.1	3090
2	Hexachlorobenzene	1.04e4	8.09e5	34	1.21	NO	0.9969	1.013	22.66	22.65	1.001	1.001	NO	63.8		0.910	63.8
3	Alpha-BHC		2.94e5	35		NO	0.8617	1.013	23.21			1.002	YES				26.2
4	Lindane (gamma-BHC)		2.28e5	36		NO	0.8690	1.013	26.49			1.001	YES				41.8
5	Beta-BHC		1.83e5	37		NO	1.0113	1.013	28.54			1.000	YES				37.2
6	Delta-BHC		2.07e5	38		NO	0.9521	1.013	30.23			1.001	YES				32.2
7	Heptachlor		1.48e5	39		NO	1.0787	1.013	28.66			1.001	YES				11.1
8	4,4'-DDMU	1.22e3	2.07e5	39		NO	1.2643	1.013	30.12	30.13	0.997	0.997	NO	23.0			31.8
9	Aldrin	4.91e2	8.27e4	40	1.98	YES	1.1111	1.013	30.77	30.77	1.001	1.001	NO	26.4			36.2
10	Oxychlorane		4.08e4	41		NO	1.0938	1.013	33.36			1.001	YES				65.1
11	cis-Heptachlor Epoxide		5.21e4	42		NO	1.1316	1.013	34.15			1.001	YES				44.8
12	trans-Heptachlor Epoxide		5.21e4	42		NO	0.2603	1.013	34.63			1.015	YES				195
13	trans-Chlordane (gamma)	2.04e3	3.69e4	43	1.78	NO	1.1780	1.013	35.05	35.06	1.001	1.001	NO	232			63.8
14	trans-Nonachlor	5.77e2	4.35e4	44		NO	1.0766	1.013	36.24	36.26	1.001	1.001	NO	80.9			60.7
15	cis-Chlordane	2.87e3	4.35e4	44	1.56	NO	1.1080	1.013	35.72	35.73	1.014	1.014	NO	273			58.9
16	Endosulfan I (alpha)		2.99e4	45		NO	1.1552	1.013	35.84			1.001	YES				79.2
17	4,4'-DDMU	3.25e4	9.94e5	46	3.42	NO	0.6758	1.013	35.49	35.50	0.994	0.994	NO	239			22.8



#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wtVol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	BMC
1	Hexachlorobutadiene	1.26e4	1.30e6	33	0.14	YES	0.0339	1.013	9.98	9.98	1.000	1.000	NO	14100		80.1	3090
2	Hexachlorobenzene	1.04e4	8.09e5	34	1.21	NO	0.8968	1.013	22.66	22.65	1.001	1.001	NO	63.8		0.910	63.8
3	Alpha-BHC		2.94e5	35		NO	0.8617	1.013	23.21			1.002	YES				26.2
4	Lindane (gamma-BHC)		2.29e5	36		NO	0.8690	1.013	26.49			1.001	YES				41.8
5	Beta-BHC		1.83e5	37		NO	1.0173	1.013	28.54			1.000	YES				37.2
6	Delta-BHC		2.07e5	38		NO	0.9521	1.013	30.23			1.001	YES				32.2
7	Heptachlor		1.48e5	39		NO	1.0787	1.013	28.66			1.001	YES				11.1
8	4,4'-DDMU	1.22e3	2.07e5	38		NO	1.2643	1.013	30.12	30.13	0.997	0.997	NO	23.0		31.8	0.000
9	Aldrin	4.91e2	6.27e4	40	1.98	YES	1.1111	1.013	30.77	30.77	1.001	1.001	NO	26.4		36.2	22.7
10	Oxychlorane		4.09e4	41		NO	1.0839	1.013	33.36			1.001	YES				65.1
11	cis-Heptachlor Epoxide		5.21e4	42		NO	1.1318	1.013	34.15			1.001	YES				44.8
12	trans-Heptachlor Epoxide		5.21e4	42		NO	0.2603	1.013	34.63			1.015	YES				195
13	trans-Chlordane (gemm...	2.04e3	3.69e4	43	1.76	NO	1.1780	1.013	35.05	35.06	1.001	1.001	NO	232		63.9	232
14	trans-Nonachlor	9.82e2	4.35e4	44	1.81	NO	1.0786	1.013	35.24	35.26	1.001	1.001	NO	104		60.7	104
15	cis-Chlordane	2.67e3	4.35e4	44	1.56	NO	1.1080	1.013	35.72	35.73	1.014	1.014	NO	273		58.9	273
16	Endosulfan (alpha)		2.89e4	45		NO	1.1552	1.013	35.84			1.001	YES				79.2
17	4,4'-DDMU	3.25e4	9.94e5	46	3.42	NO	0.6758	1.013	35.49	35.50	0.994	0.994	NO	239		22.8	239



#	Name	Resp	IS Resp	ISF	RA	n/y	RPF	wt/wt	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	BMP2
1	1 Hexachlorobutadiene	1.26e4	1.30e6	33	0.14	YES	0.0339	1.013	9.98	9.98	1.000	1.000	NO	14100		80.1	3090
2	2 Heptachlorobenzene	1.04e4	8.09e5	34	1.21	NO	0.9969	1.013	22.06	22.85	1.001	1.001	NO	63.8		0.910	63.8
3	3 Alpha-BHC		2.94e5	35		NO	0.9817	1.013	23.21				1.002	YES			28.2
4	4 Lindane (gamma-BHC)		2.29e5	36		NO	0.9690	1.013	26.48				1.001	YES			41.8
5	5 Beta-BHC		1.83e5	37		NO	1.0173	1.013	28.54				1.000	YES			37.2
6	6 Delta-BHC		2.07e5	38		NO	0.9521	1.013	30.23				1.001	YES			32.2
7	7 Heptachlor		1.48e5	39		NO	1.0787	1.013	28.86				1.001	YES			11.1
8	8 4,4'-DDMU	1.22e3	2.07e5	38		NO	1.2643	1.013	30.12	30.13	0.997	0.997	NO	23.0		31.8	0.000
9	9 Aldrin	4.91e2	8.27e4	40	1.98	YES	1.1111	1.013	30.77	30.77	1.001	1.001	NO	26.4		36.2	22.7
10	10 Cyclohexene		4.09e4	41		NO	1.0930	1.013	33.36				1.001	YES			65.1
11	11 cis-Heptachlor Epoxide		5.21e4	42		NO	1.1318	1.013	34.15				1.001	YES			44.8
12	12 trans-Heptachlor Epoxide		5.21e4	42		NO	0.2603	1.013	34.63				1.015	YES			195
13	13 trans-Chlordane (gamma)	2.04e3	3.89e4	43	1.78	NO	1.1780	1.013	35.05	35.06	1.001	1.001	NO	232		83.8	232
14	14 trans-Nonachlor	9.82e3	4.35e4	44	1.61	NO	1.0766	1.013	35.24	35.26	1.001	1.001	NO	104		60.7	104
15	15 cis-Chlordane	2.75e3	4.35e4	44	1.70	NO	1.1080	1.013	35.72	35.73	1.014	1.014	NO	263		58.9	263
16	16 Endosulfan I (alpha)		2.89e4	45		NO	1.1552	1.013	35.84				1.001	YES			79.2
17	17 4,4'-DDMU	3.25e4	9.94e5	46	3.42	NO	0.6758	1.013	35.49	35.50	0.984	0.984	NO	239		22.8	239



Dataset: U:\VG11.PRO\Results\200201K2\200201K2-13.qld

Last Altered: Monday, February 03, 2020 11:33:58 Pacific Standard Time

Printed: Monday, February 03, 2020 12:00:53 Pacific Standard Time

Name: 200201K2_13, Date: 01-Feb-2020, Time: 23:44:36, ID: 1904021-04RE2 PDI-142RAB-20-30.4-191112 1.15, Description: PDI-142RAB-20-30.4-191112

DDMU-DDE

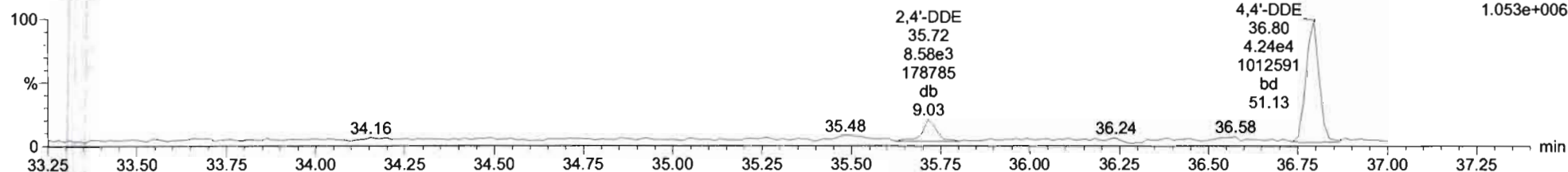
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1.400e+006



200201K2_13
PDI-142RAB-20-30.4-191112 1904021-04RE2 PDI-142RAB-20-30.4-191112 1.15

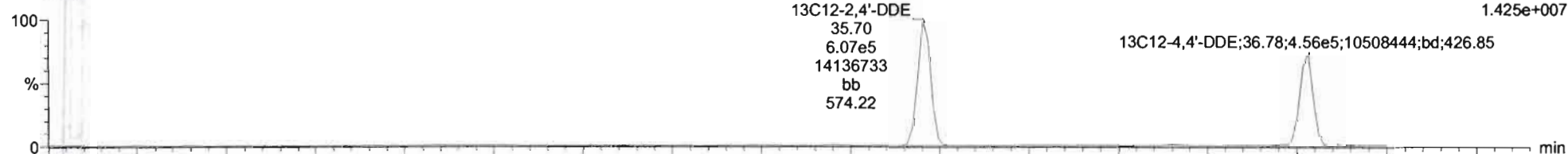
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DDE-isotopes

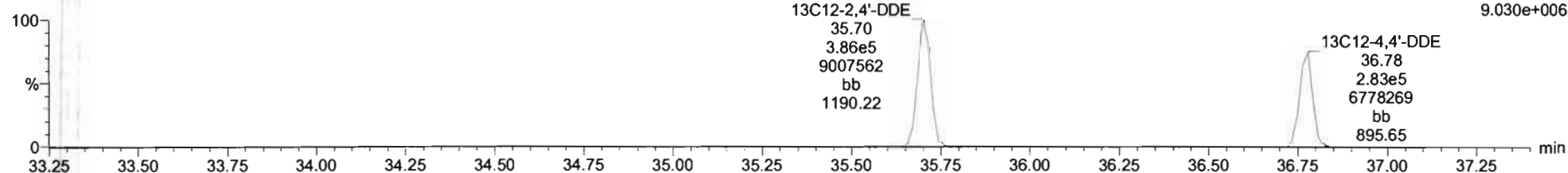
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F3:Voltage SIR,EI+
258.0406
1.425e+007

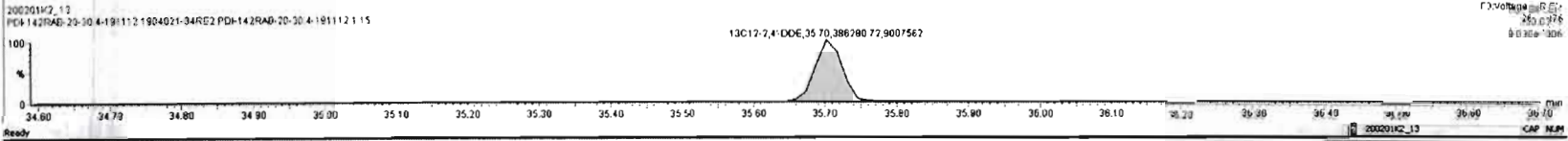
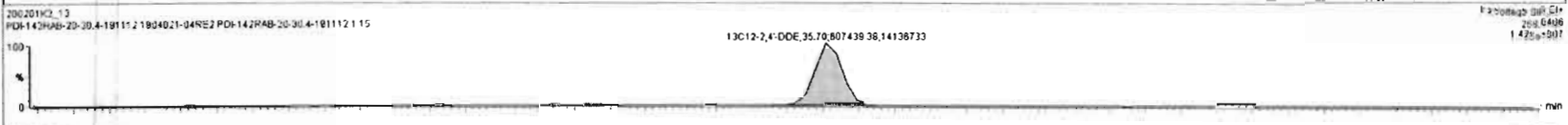
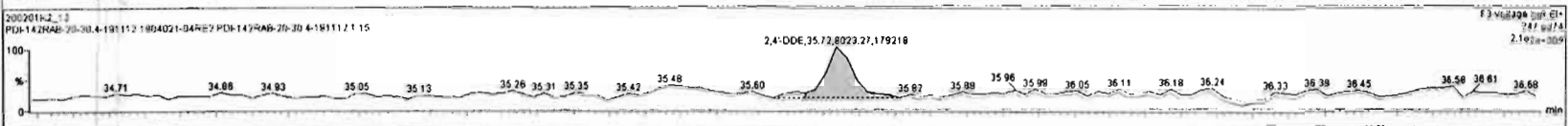
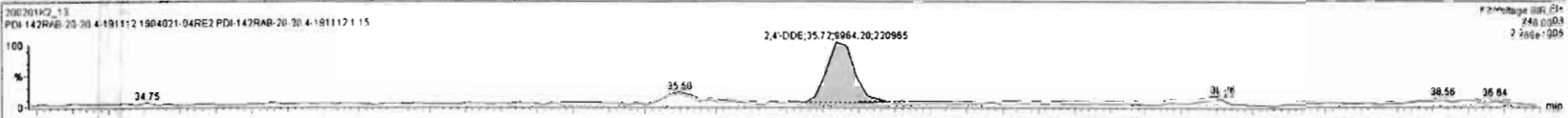


200201K2_13
PDI-142RAB-20-30.4-191112 1904021-04RE2 PDI-142RAB-20-30.4-191112 1.15

F3:Voltage SIR,EI+
260.0376
9.030e+006



#	Name	Resp	IS Resp	IS#	RA	Qty	RSE	width	Pres RT	RT	RR1	Pres RR1	Check RR1	Conc	Unit	DL	EMPC
18	2,4'-DDE	1.80e4	9.94e5	46	1.28	NO	0.9841	1.013	35.71	35.72	1.000	1.000	NO	80.8		13.7	90.8
19	4,4'-DDE	9.82e4	7.20e5	47	1.32	NO	0.9961	1.013	36.80	36.80	1.000	1.000	NO	859		18.4	658
20	Dieldrin	4.20e3	8.95e4	48	1.75	NO	1.0924	1.013	37.30	37.30	1.000	1.000	NO	21.2		47.1	212
21	Endrin		8.41e4	49		NO	1.0566	1.013	38.66				1.000	YES			63.4
22	cis-Nonachlor		4.72e4	50		NO	1.0772	1.013	38.87				1.000	YES			75.3
23	Endosulfan I (beta)		1.55e4	51		NO	1.1102	1.013	38.68				1.000	YES			269
24	2,4'-DDD	2.80e5	9.11e5	52	1.44	NO	1.0482	1.013	37.81	37.82	1.000	1.000	NO	1450		24.8	1450
25	2,4'-DDT	4.97e4	5.57e5	53	1.83	NO	1.0280	1.013	39.08	39.08	1.000	1.000	NO	428		30.3	428
26	4,4'-DDD	9.08e5	7.89e5	54	1.56	NO	1.1242	1.013	38.19	38.18	1.000	1.000	NO	5180		24.8	6180
27	4,4'-DDT	1.82e5	4.34e5	55	1.47	NO	1.1338	1.013	40.26	40.25	1.000	1.000	NO	1630		47.2	1630
28	Endosulfan Sulfate		2.07e4	56		NO	0.9871	1.013	41.42				1.000	YES			288
29	4,4'-Methoxychlor	2.90e4	3.82e6	57	0.42	NO	1.2688	1.013	43.28	43.34	1.001	1.000	NO	298		147	298
30	Mirex	3.97e3	1.24e5	58	0.40	YES	1.0435	1.013	43.88	43.86	1.000	1.000	NO	108		38.5	50.7
31	Endrin Aldehyde		2.14e5	59		NO	1.0582	1.013	40.83				1.000	YES			266
32	Endrin Ketone	1.87e3	2.27e5	60	0.48	NO	0.9741	1.013	43.98	44.06	1.002	1.000	NO	305		226	305
33	13C4-Hexachlorobutadiene	1.30e6	1.30e6	62	1.28	NO	0.1267	1.013	9.94	9.98	0.384	0.383	NO	38800	74.2	8.45	
34	13C6-Hexachlorobenzene	8.08e5	1.30e6	62	1.28	NO	0.6741	1.013	22.85	22.84	0.872	0.872	NO	4280	86.8	1.79	

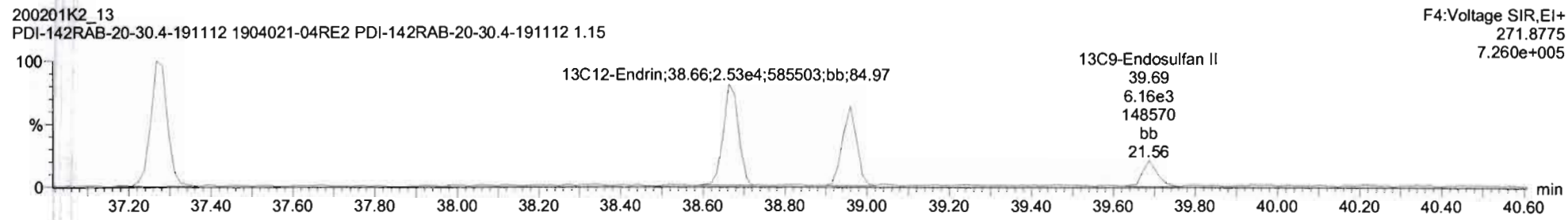
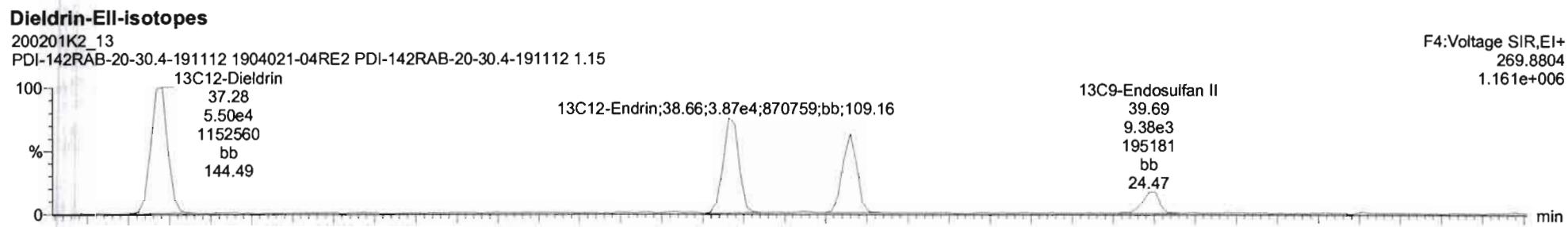
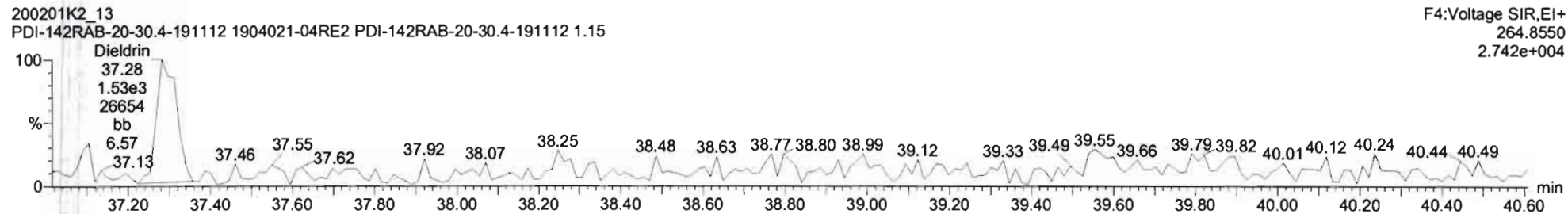
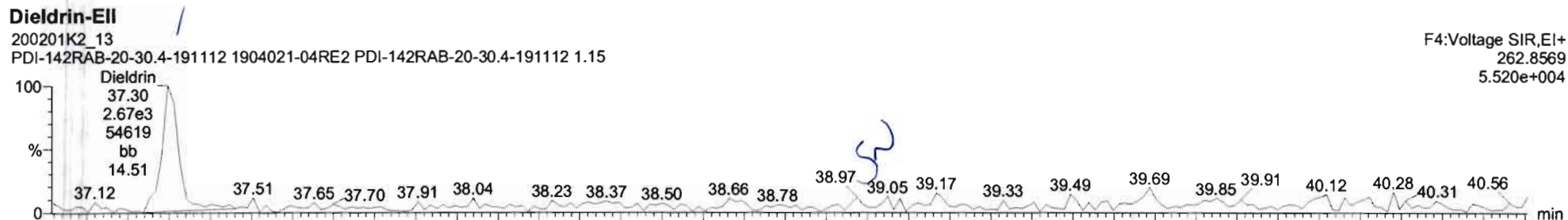


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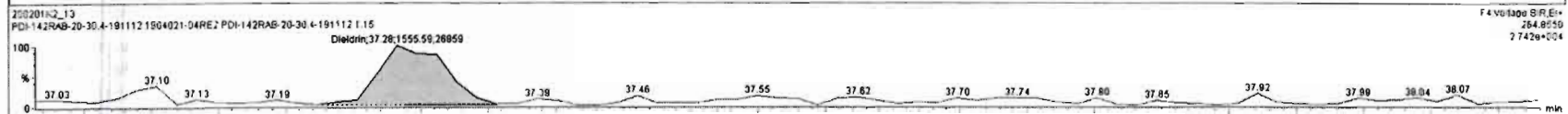
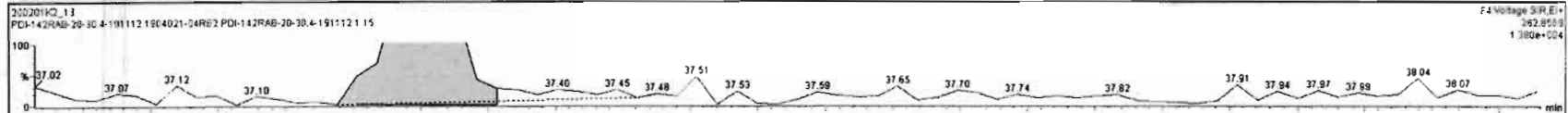
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Name: 200201K2_13, Date: 01-Feb-2020, Time: 23:44:36, ID: 1904021-04RE2 PDI-142RAB-20-30.4-191112 1.15, Description: PDI-142RAB-20-30.4-191112



#	Name	Resp	IS Resp	ISat	RA	nly	RRF	wtVol	Prod RT	RT	RRT	Prod RRT	Check RRT	Conc	%Rec	DL	EMPC
18	2,4'-DDE	1.80e4	9.94e5	46	1.24	NO	0.8641	1.013	35.71	35.72	1.000	1.000	NO	90.8		13.7	90.8
19	4,4'-DDE	9.83e4	7.30e5	47	1.32	NO	0.5961	1.013	36.80	36.80	1.000	1.000	NO	659		18.4	659
20	Dieldrin	4.10e3	8.95e4	48	1.83	NO	1.0934	1.013	37.30	37.30	1.000	1.000	NO	207		47.1	207
21	Endrin		8.41e4	49		NO	1.0566	1.013	38.66				1.000	YES			63.4
22	cis-Nonachlor		4.72e4	50		NO	1.0772	1.013	39.97				1.000	YES			75.3
23	Endosulfan I (beta)		1.55e4	51		NO	1.1102	1.013	39.60				1.000	YES			269
24	2,4'-DDD	2.89e5	9.11e5	52	1.44	NO	1.0462	1.013	37.91	37.92	1.000	1.000	NO	1450		24.9	1450
25	2,4'-DDT	4.97e4	5.57e5	53	1.63	NO	1.0250	1.013	39.25	39.26	1.000	1.000	NO	428		39.3	428
26	4,4'-DDD	9.09e5	7.69e5	54	1.56	NO	1.1242	1.013	39.19	39.18	1.000	1.000	NO	5180		24.8	5180
27	4,4'-DDT	1.62e5	4.34e5	55	1.47	NO	1.1336	1.013	40.26	40.25	1.000	1.000	NO	1630		47.2	1630
28	Endosulfan Sulfate		2.07e4	56		NO	0.9871	1.013	41.42				1.000	YES			268
29	4,4'-Methoxychlor	2.82e4	3.82e5	57	0.42	NO	1.2668	1.013	43.28	43.34	1.001	1.000	NO	298		14.7	298
30	Mirex	3.97e3	1.74e5	58	0.40	YES	1.0435	1.013	43.86	43.86	1.000	1.000	NO	108		38.5	50.7
31	Endrin Aldehyde		2.14e5	59		NO	1.0582	1.013	40.83				1.000	YES			266
32	Endrin Ketone	1.67e3	2.77e5	60	0.48	NO	0.9741	1.013	43.98	44.06	1.002	1.000	NO	305		2.38	305
33	13C4-Hexachlorobutadi...	1.30e6	1.30e6	62	1.28	NO	0.1287	1.013	9.94	9.98	0.384	0.383	NO	36600	74.2	8.45	
34	13C6-Hexachlorobenz.	8.09e5	1.39e6	62	1.28	NO	0.8741	1.013	22.65	22.64	0.872	0.872	NO	4280	86.6	1.78	



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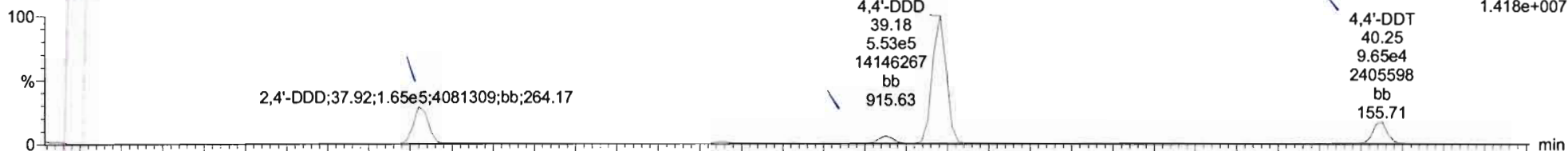
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Name: 200201K2_13, Date: 01-Feb-2020, Time: 23:44:36, ID: 1904021-04RE2 PDI-142RAB-20-30.4-191112 1.15, Description: PDI-142RAB-20-30.4-191112

DDD-DDT

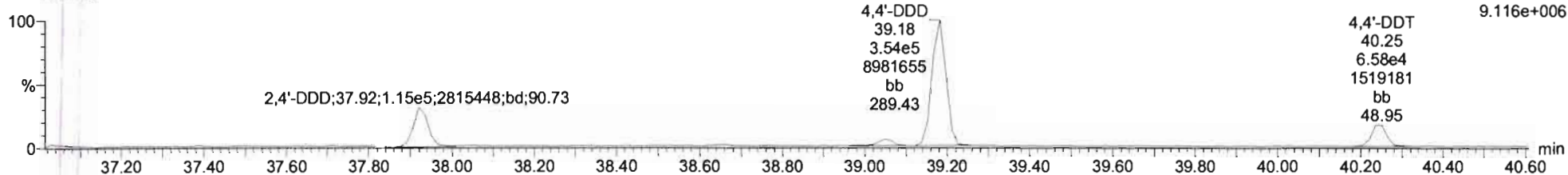
200201K2_13
PDI-142RAB-20-30.4-191112 1904021-04RE2 PDI-142RAB-20-30.4-191112 1.15

F4:Voltage SIR,EI+
235.0081
1.418e+007



200201K2_13
PDI-142RAB-20-30.4-191112 1904021-04RE2 PDI-142RAB-20-30.4-191112 1.15

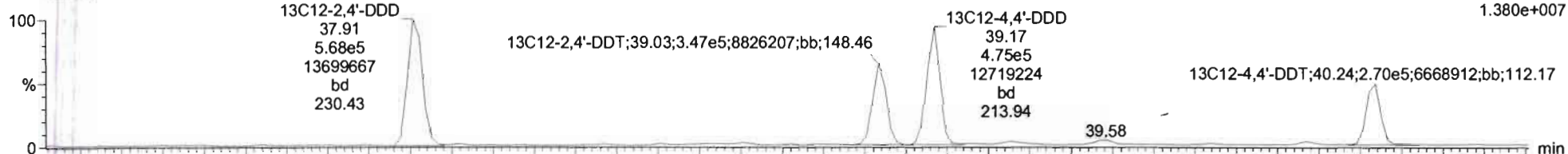
F4:Voltage SIR,EI+
237.0052
9.116e+006



DDD-DDT-isotopes

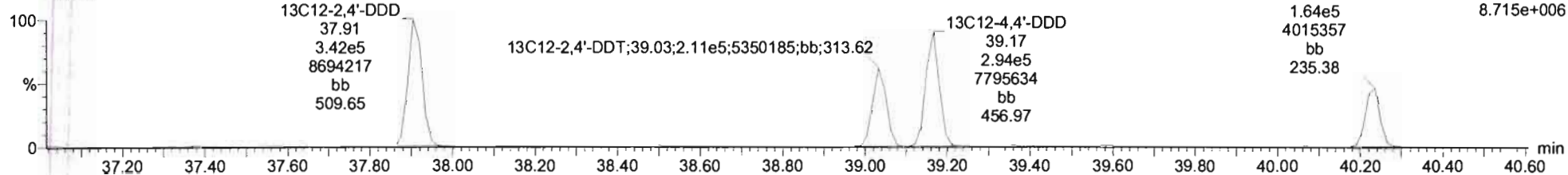
200201K2_13
PDI-142RAB-20-30.4-191112 1904021-04RE2 PDI-142RAB-20-30.4-191112 1.15

F4:Voltage SIR,EI+
247.0484
1.380e+007

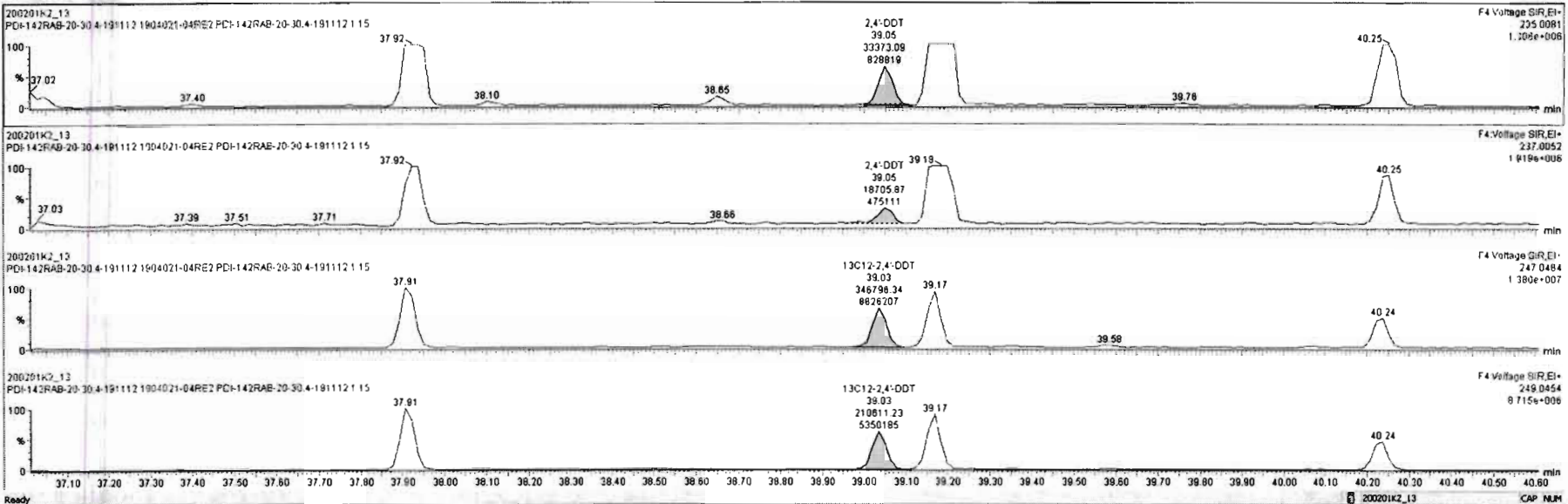


200201K2_13
PDI-142RAB-20-30.4-191112 1904021-04RE2 PDI-142RAB-20-30.4-191112 1.15

F4:Voltage SIR,EI+
249.0454
8.715e+006



#	Name	Resp	IS Resp	ISf	RA	nly	RPF	wt/vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	EMPC
18	2,4'-DDE	1.80e4	9.94e5	46	1.24	NO	0.9941	1.013	35.71	35.72	1.000	1.000	NO	90.8	13.7	90.8	
19	4,4'-DDE	9.83e4	7.39e5	47	1.32	NO	0.9961	1.013	36.80	36.80	1.000	1.000	NO	659	18.4	659	
20	Dieldrin	4.10e3	8.85e4	48	1.63	NO	1.0934	1.013	37.30	37.30	1.000	1.000	NO	207	47.1	207	
21	Endrin		6.41e4	49		NO	1.0566	1.013	38.66			1.000	YES			63.4	
22	cis-Norachlor		4.72e4	50		NO	1.0772	1.013	38.97			1.000	YES			75.3	
23	Endosulfan II (beta)		1.55e4	51		NO	1.1102	1.013	39.69			1.000	YES			269	
24	2,4'-DDD	2.80e5	9.11e5	52	1.44	NO	1.0482	1.013	37.91	37.92	1.000	1.000	NO	1450	24.9	1450	
25	2,4'-DDT	5.21e4	5.57e5	53	1.78	NO	1.0290	1.013	39.05	39.05	1.000	1.000	NO	448	39.3	448	
26	4,4'-DDD	9.08e5	7.89e5	54	1.56	NO	1.1242	1.013	39.19	39.18	1.000	1.000	NO	5190	24.8	5190	
27	4,4'-DDT	1.62e5	4.34e5	55	1.47	NO	1.1336	1.013	40.26	40.25	1.000	1.000	NO	1630	47.2	1630	
28	Endosulfan Sulfate		2.07e4	56		NO	0.9971	1.013	41.42			1.000	YES			268	
29	4,4'-Methoxychlor	2.92e4	3.82e6	57	0.42	NO	1.2668	1.013	43.28	43.34	1.001	1.000	NO	298	147	298	
30	Mirex	3.97e3	1.74e5	58	0.40	YES	1.0435	1.013	43.86	43.86	1.000	1.000	NO	108	38.5	50.7	
31	Endrin Aldehyde		2.14e5	59		NO	1.0592	1.013	40.83			1.000	YES			266	
32	Endrin Ketone	1.87e3	2.77e5	60	0.48	NO	0.9741	1.013	43.98	44.06	1.002	1.000	NO	305	236	305	
33	13C4-Hexachlorobutadi...	1.30e6	1.39e6	62	1.28	NO	0.1267	1.013	9.94	9.98	0.384	0.383	NO	36600	74.2	8.45	
34	13C8-Hexachlorobenz...	8.09e5	1.39e6	62	1.26	NO	0.6741	1.013	22.65	22.64	0.072	0.072	NO	4280	86.6	1.78	



Dataset: U:\VG11.PRO\Results\200201K2\200201K2-13.qld

Last Altered: Monday, February 03, 2020 11:33:58 Pacific Standard Time

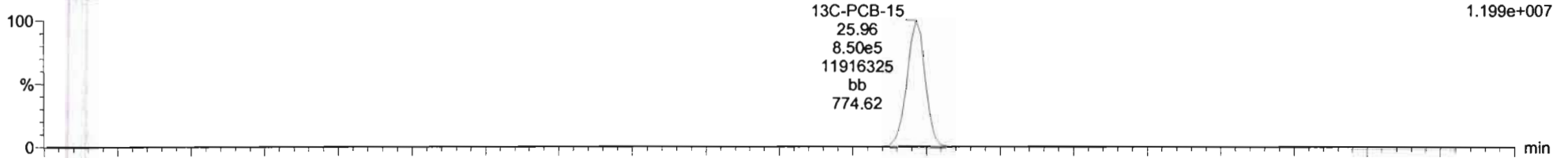
Printed: Monday, February 03, 2020 12:00:53 Pacific Standard Time

Name: 200201K2_13, Date: 01-Feb-2020, Time: 23:44:36, ID: 1904021-04RE2 PDI-142RAB-20-30.4-191112 1.15, Description: PDI-142RAB-20-30.4-191112

13C-PCB-15

200201K2_13
PDI-142RAB-20-30.4-191112 1904021-04RE2 PDI-142RAB-20-30.4-191112 1.15

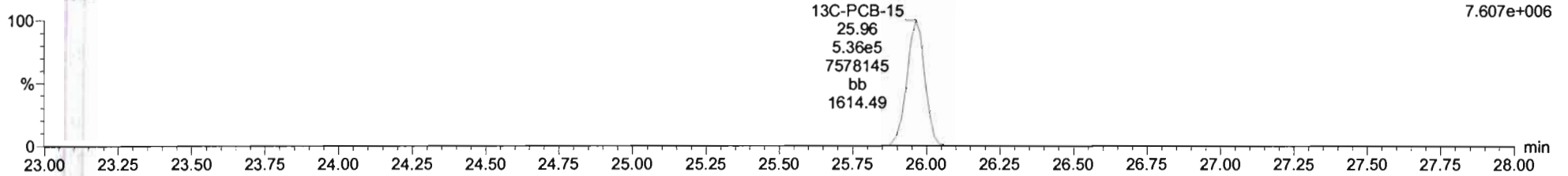
F2:Voltage SIR,EI+
234.0406
1.199e+007



200201K2_13

PDI-142RAB-20-30.4-191112 1904021-04RE2 PDI-142RAB-20-30.4-191112 1.15

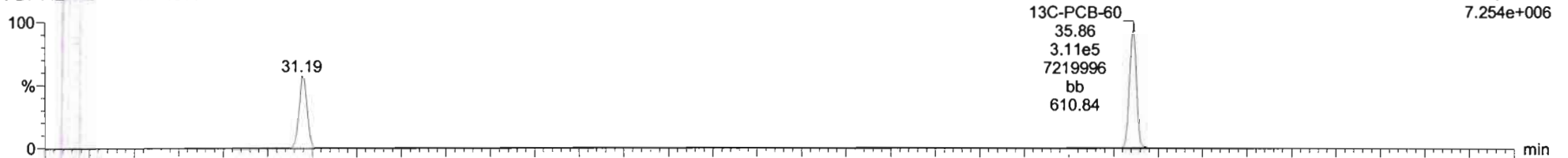
F2:Voltage SIR,EI+
236.0376
7.607e+006



13C-PCB-60

200201K2_13
PDI-142RAB-20-30.4-191112 1904021-04RE2 PDI-142RAB-20-30.4-191112 1.15

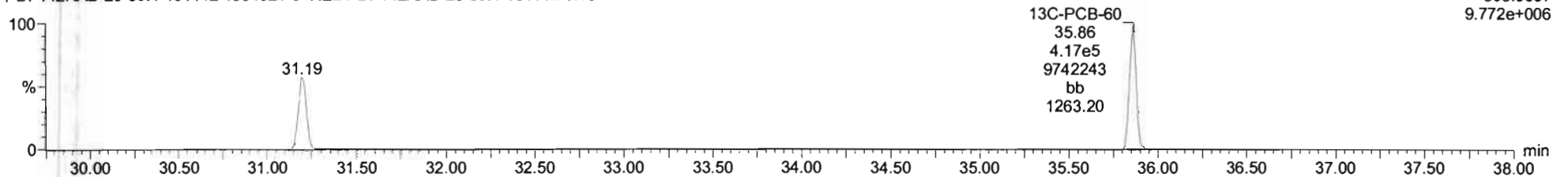
F3:Voltage SIR,EI+
301.9626
7.254e+006



200201K2_13

PDI-142RAB-20-30.4-191112 1904021-04RE2 PDI-142RAB-20-30.4-191112 1.15

F3:Voltage SIR,EI+
303.9597
9.772e+006



Dataset: U:\VG11.PRO\Results\200201K2\200201K2-13.qld

Last Altered: Monday, February 03, 2020 11:33:58 Pacific Standard Time

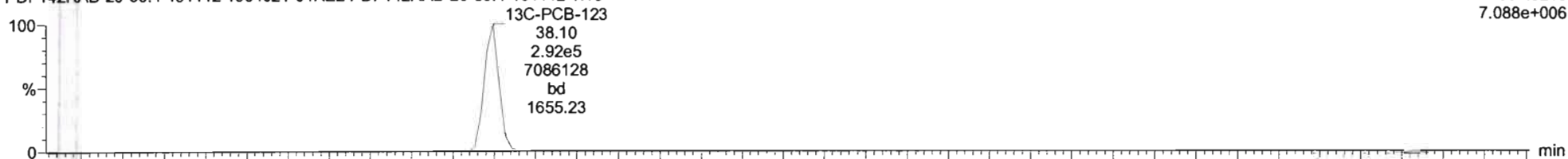
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13C-PCB-123

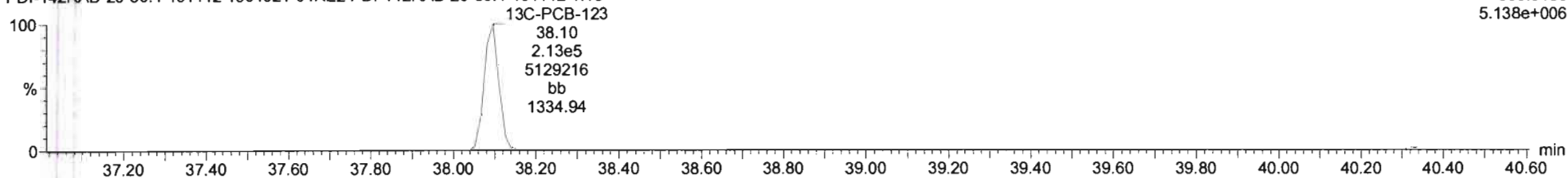
200201K2_13
PDI-142RAB-20-30.4-191112 1904021-04RE2 PDI-142RAB-20-30.4-191112 1.15

F4:Voltage SIR,EI+
337.9210
7.088e+006



200201K2_13
PDI-142RAB-20-30.4-191112 1904021-04RE2 PDI-142RAB-20-30.4-191112 1.15

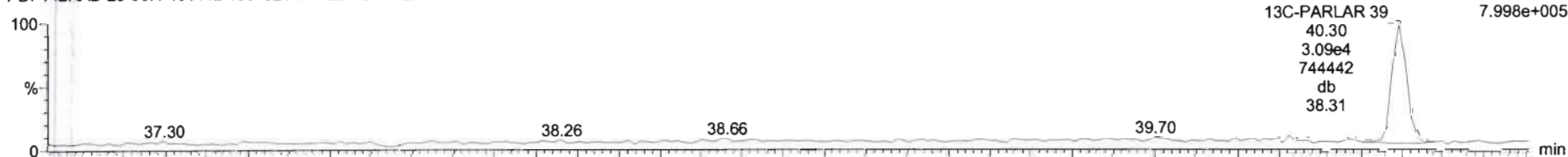
F4:Voltage SIR,EI+
339.9180
5.138e+006



13C-PARLAR 39

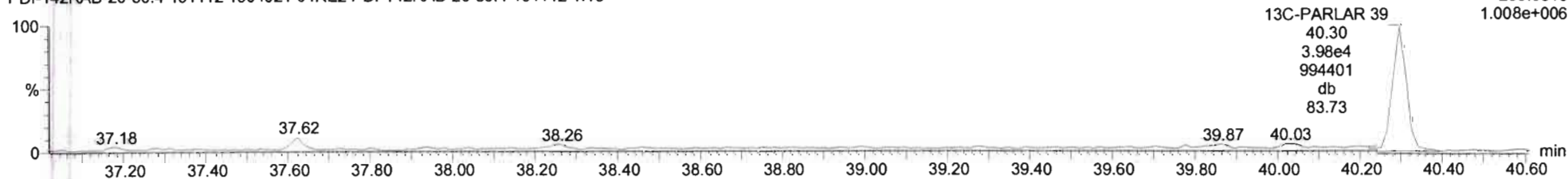
200201K2_13
PDI-142RAB-20-30.4-191112 1904021-04RE2 PDI-142RAB-20-30.4-191112 1.15

F4:Voltage SIR,EI+
251.9648
7.998e+005



200201K2_13
PDI-142RAB-20-30.4-191112 1904021-04RE2 PDI-142RAB-20-30.4-191112 1.15

F4:Voltage SIR,EI+
253.9619
1.008e+006

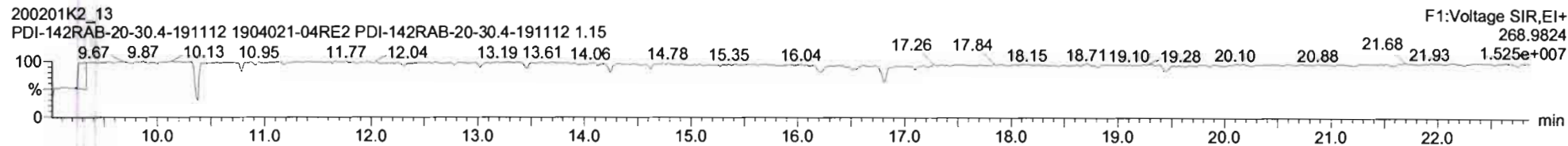


Dataset: U:\VG11.PRO\Results\200201K2\200201K2-13.qld

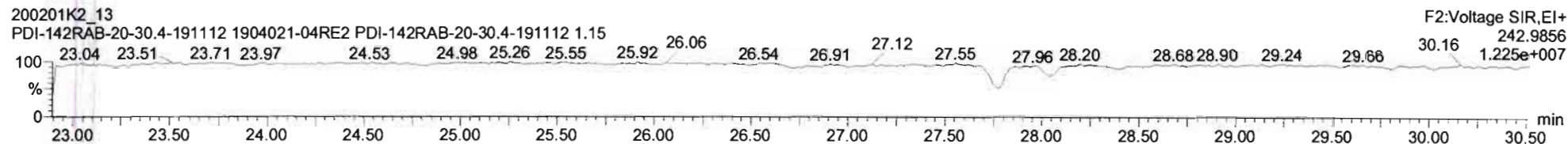
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Name: 200201K2_13, Date: 01-Feb-2020, Time: 23:44:36, ID: 1904021-04RE2 PDI-142RAB-20-30.4-191112 1.15, Description: PDI-142RAB-20-30.4-191112

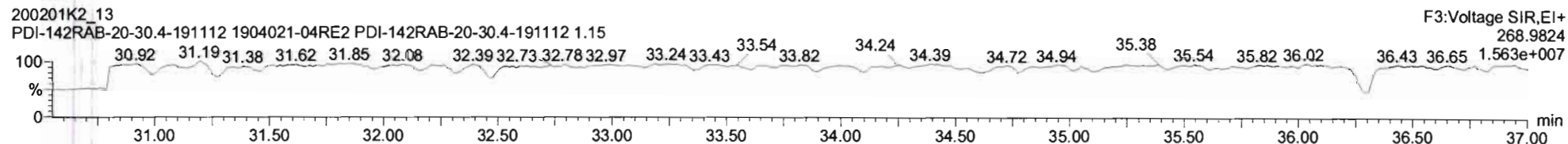
PFK1



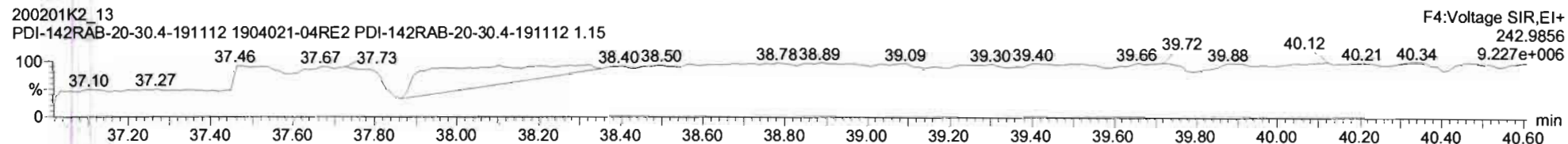
PFK2



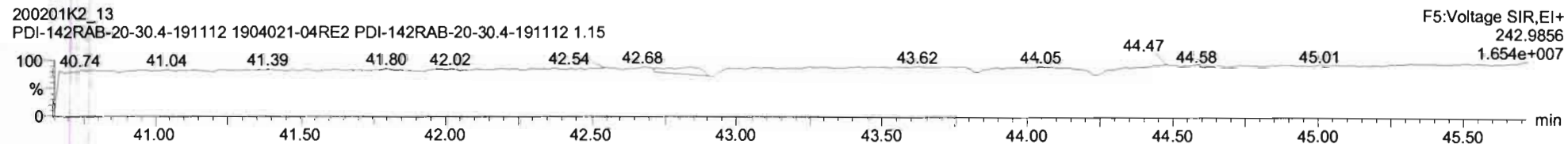
PFK3



PFK4



PFK5



Dataset: U:\VG11.PRO\Results\191122K3\191122K3-18.qld

Last Altered: Tuesday, November 26, 2019 10:09:05 Pacific Standard Time

Printed: Tuesday, November 26, 2019 10:10:13 Pacific Standard Time

GPB 11/26/19

C1 02/04/2020

Method: U:\VG11.PRO\MethDB\1699rrt-11-21-19.mdb 21 Nov 2019 11:39:32

Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-11-22-19-LIMITEDB.cdb 23 Nov 2019 13:11:31

Name: 191122K3_18, Date: 23-Nov-2019, Time: 06:00:48, ID: 1904021-05 PDI-144RAB-00-10-191113 1, Description: PDI-144RAB-00-10-191113

#	Name	Resp	IS Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	RRT Fail	Conc.	%Rec	DL	EMPC
1	4 Lindane (gamma-BHC)		1.33e5		NO	0.744	1.011	✓ 26.66				1.001	YES		6.62	
2	9 Aldrin		9.31e4		NO	1.02	1.011	30.99				1.001	YES		3.90	
3	10 Oxychlordan		2.38e4		NO	0.992	1.011	33.59				1.001	YES		14.0	
4	13 trans-Chlordane (gam...	4.35e2	2.32e4	1.52	NO	1.08	1.011	35.30	35.29	1.000	1.001	NO	17.2		12.7	17.2
5	14 trans-Nonachlor		2.59e4		NO	1.00	1.011	35.49				1.001	YES		12.2	
6	15 cis-Chlordane		2.59e4		NO	0.981	1.011	35.97				1.014	YES		12.5	
7	18 2,4'-DDE		6.47e5		NO	0.854	1.011	35.94				1.000	YES		2.57	
8	19 4,4'-DDE	8.68e3	4.67e5	1.26	NO	0.873	1.011	37.03	37.03	1.000	1.000	NO	21.1		3.27	21.1
9	20 Dieldrin	6.85e2	6.06e4	1.32	NO	0.957	1.011	37.53	37.53	1.000	1.000	NO	11.7		5.64	11.7
10	22 cis-Nonachlor		3.08e4		NO	0.956	1.011	39.22				1.000	YES		11.3	

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191122K3\191122K3-18.qld

Last Altered: Tuesday, November 26, 2019 10:09:05 Pacific Standard Time

Printed: Tuesday, November 26, 2019 10:10:06 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1699rrt-11-21-19.mdb 21 Nov 2019 11:39:32

Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-11-22-19-LIMITEDB.cdb 23 Nov 2019 13:11:31

Name: 191122K3_18, Date: 23-Nov-2019, Time: 06:00:48, ID: 1904021-05 PDI-144RAB-00-10-191113 1, Description: PDI-144RAB-00-10-191113

	# Name	Resp	IS Resp	RA	n/y	RRF	wt/vol	Pred. RT	RT	RRT	Pred.RRT	RRT Fail	Conc.	%Rec	DL	EMPC
1	24 2,4'-DDD	2.82e4	6.10e5	1.55	NO	0.915	1.011	38.17	38.18	1.000	1.000	NO	50.1		3.51	50.1
2	25 2,4'-DDT	8.64e3	3.71e5	1.78	NO	0.921	1.011	39.31	39.31	1.000	1.000	NO	25.0		5.68	25.0
3	26 4,4'-DDD	7.47e4	5.14e5	1.56	NO	1.00	1.011	39.43	39.43	1.000	1.000	NO	143		3.58	143
4	27 4,4'-DDT	6.04e4	3.03e5	1.60	NO	0.986	1.011	40.50	40.50	1.000	1.000	NO	200		6.01	200
5	36 13C6-Lindane (gamma)	1.33e5	1.10e6	0.78	NO	0.189	1.011	26.63	26.63	1.020	1.020	NO	632	63.9	4.52	
6	40 13C12-Aldrin	9.31e4	1.10e6	1.61	NO	0.122	1.011	30.93	30.96	1.185	1.184	NO	686	69.4	5.26	
7	41 13C10-Oxychlorane	2.38e4	1.10e6	1.88	NO	0.0283	1.011	33.53	33.57	1.285	1.284	NO	755	76.3	22.6	
8	43 13C10-trans-Chlordan...	2.32e4	1.10e6	1.59	NO	0.0292	1.011	35.23	35.28	1.351	1.349	NO	712	72.0	21.9	
9	44 13C10-trans-Nonachlor	2.59e4	1.10e6	1.74	NO	0.0333	1.011	35.42	35.47	1.358	1.356	NO	698	70.5	19.2	

Dataset: U:\VG11.PRO\Results\191122K3\191122K3-18.qld

Last Altered: Tuesday, November 26, 2019 10:09:05 Pacific Standard Time

Printed: Tuesday, November 26, 2019 10:09:26 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1699rrt-11-21-19.mdb 21 Nov 2019 11:39:32

Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-11-22-19-LIMITEDB.cdb 23 Nov 2019 13:11:31

Name: 191122K3_18, Date: 23-Nov-2019, Time: 06:00:48, ID: 1904021-05 PDI-144RAB-00-10-191113 1, Description: PDI-144RAB-00-10-191113

	# Name	Resp	IS Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	RRT Fail	Conc.	%Rec	DL	EMPC
1	46 13C12-2,4'-DDE	6.47e5	1.10e6	1.57	NO	0.763	1.011	35.95	35.93	0.996	0.996	NO	760	76.8	4.42	
2	47 13C12-4,4'-DDE	4.67e5	1.10e6	1.59	NO	0.552	1.011	37.01	37.01	1.025	1.026	NO	759	76.7	6.11	
3	48 13C12-Dieldrin	6.06e4	1.10e6	1.57	NO	0.0749	1.011	37.51	37.51	1.039	1.039	NO	725	73.2	17.7	
4	50 13C10-cis-Nonachlor	3.08e4	1.10e6	1.67	NO	0.0389	1.011	39.20	39.20	1.086	1.086	NO	708	71.5	34.1	
5	52 13C12-2,4'-DDD	6.10e5	1.10e6	1.61	NO	0.588	1.011	38.10	38.17	1.461	1.459	NO	929	93.9	4.35	
6	53 13C12-2,4'-DDT	3.71e5	1.10e6	1.58	NO	0.370	1.011	39.23	39.29	1.504	1.502	NO	898	90.8	6.91	
7	54 13C12-4,4'-DDD	5.14e5	1.10e6	1.59	NO	0.473	1.011	39.35	39.41	1.509	1.507	NO	974	98.4	5.41	
8	55 13C12-4,4'-DDT	3.03e5	1.10e6	1.59	NO	0.280	1.011	40.41	40.48	1.550	1.547	NO	969	97.9	9.14	
9	62 13C-PCB-15	1.10e6	1.10e6	1.56	NO	1.00	1.011	26.18	26.12	1.000	1.000	NO	990	100	0.933	

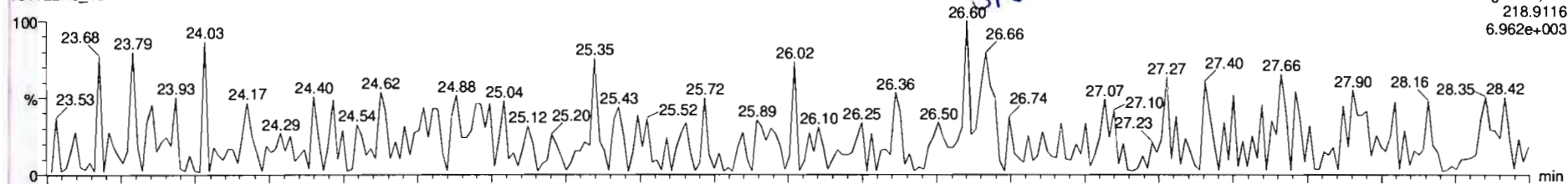
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Last Altered: Monday, November 25, 2019 11:01:53 Pacific Standard Time
Printed: Monday, November 25, 2019 11:23:53 Pacific Standard Time

Name: 191122K3_18, Date: 23-Nov-2019, Time: 06:00:48, ID: 1904021-05 PDI-144RAB-00-10-191113 1, Description: PDI-144RAB-00-10-191113

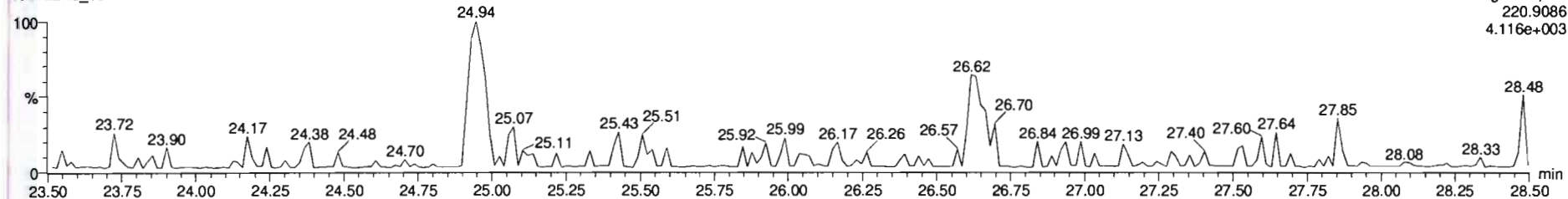
Lindane (gamma-BHC)

191122K3_18



F2: Voltage SIR, EI+
218.9116
6.962e+003

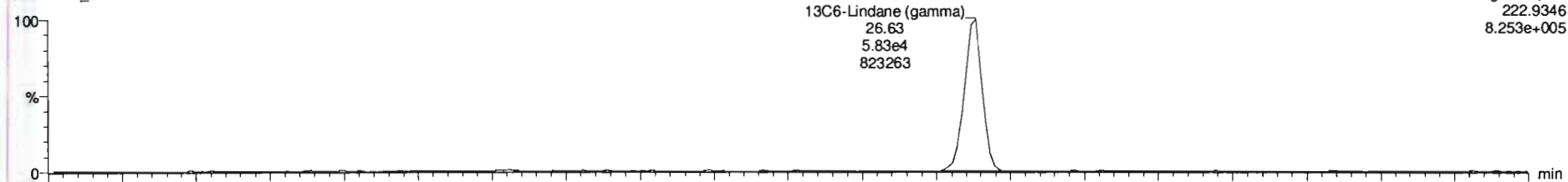
191122K3_18



F2: Voltage SIR, EI+
220.9086
4.116e+003

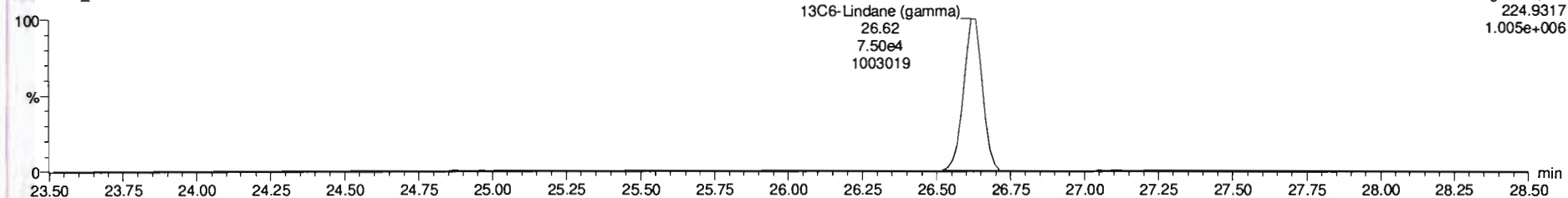
¹³C6-Lindane (gamma)

191122K3_18



F2: Voltage SIR, EI+
222.9346
8.253e+005

191122K3_18



F2: Voltage SIR, EI+
224.9317
1.005e+006

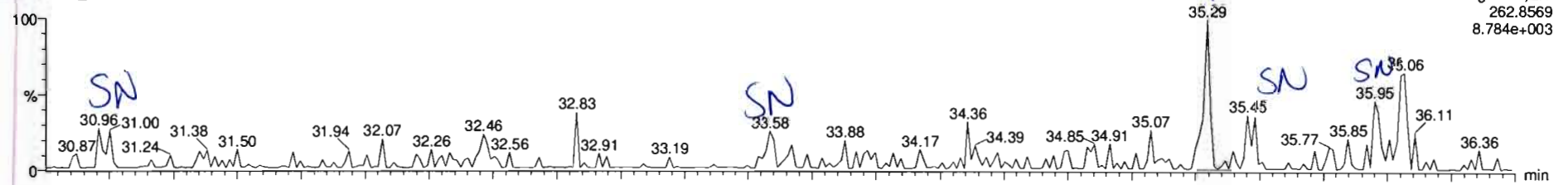
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Printed: Monday, November 25, 2019 11:23:53 Pacific Standard Time

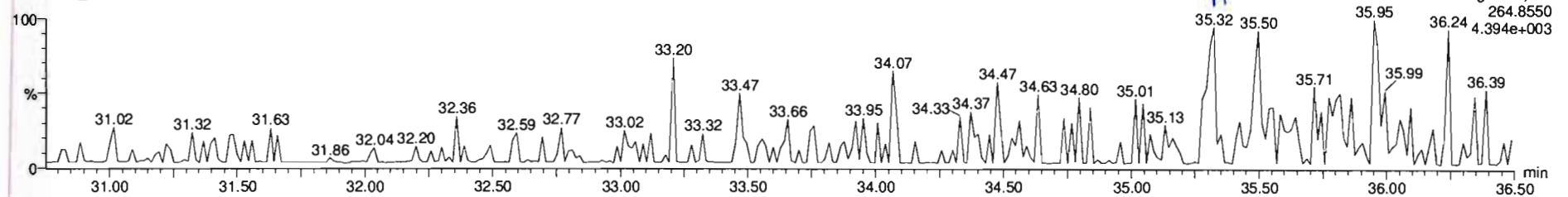
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Aldrin-EI

191122K3_18

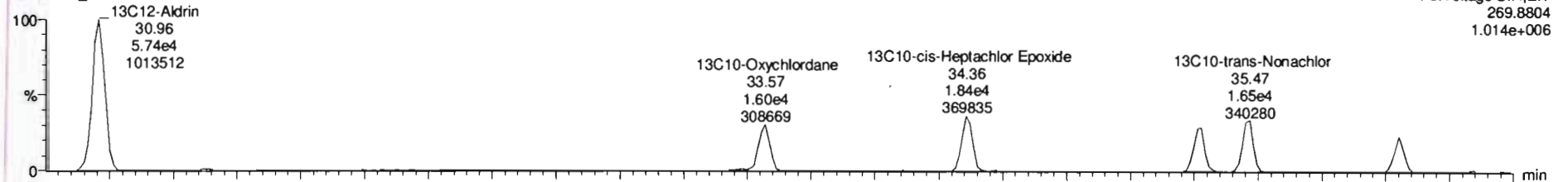


191122K3_18

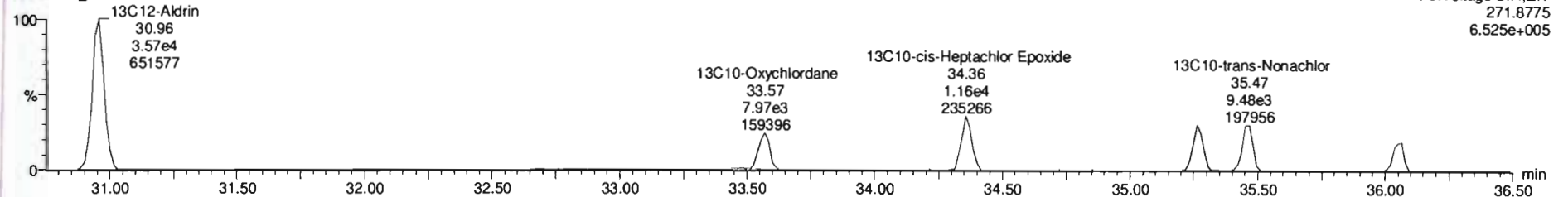


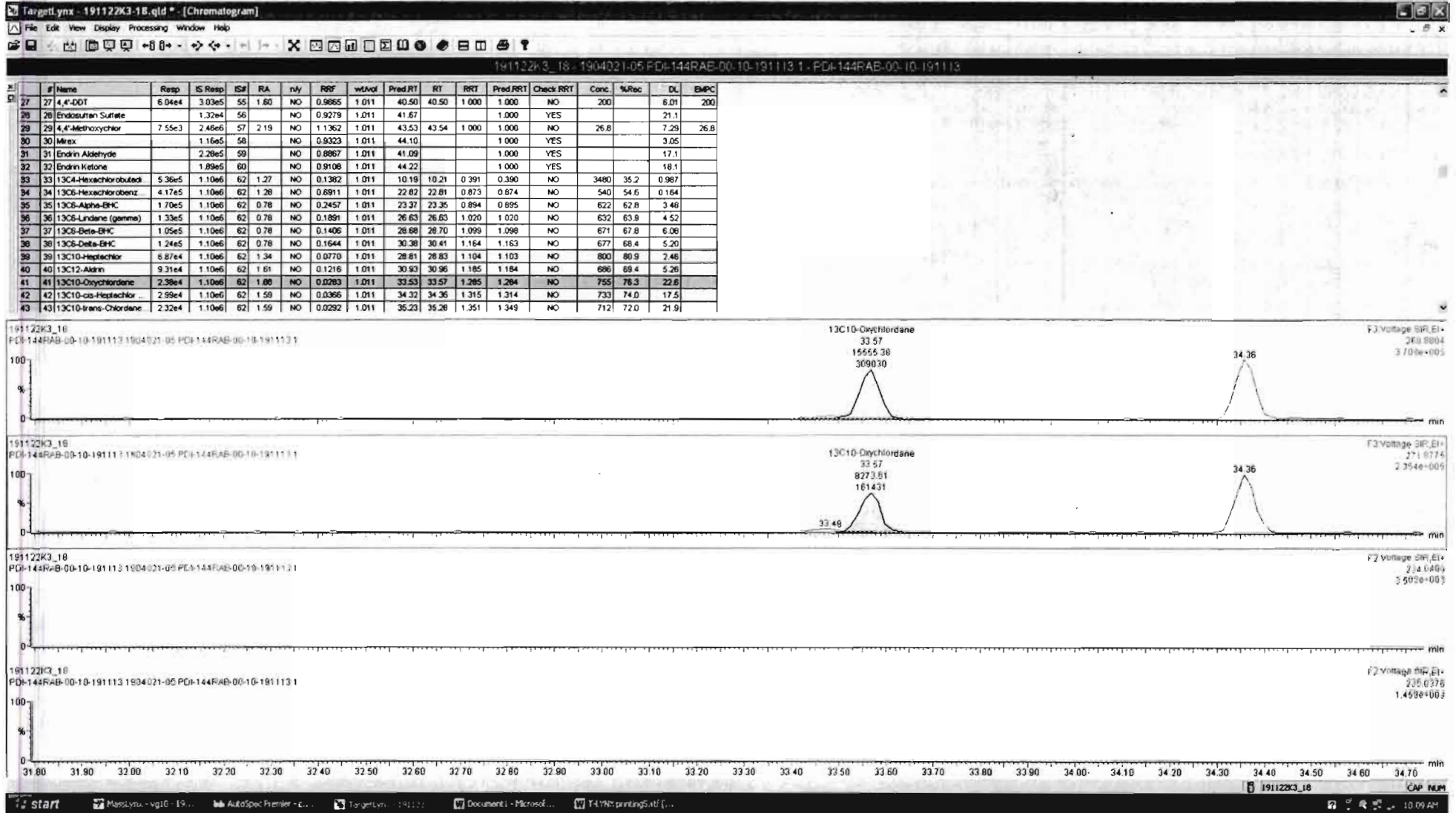
Aldrin-EI-isotopes

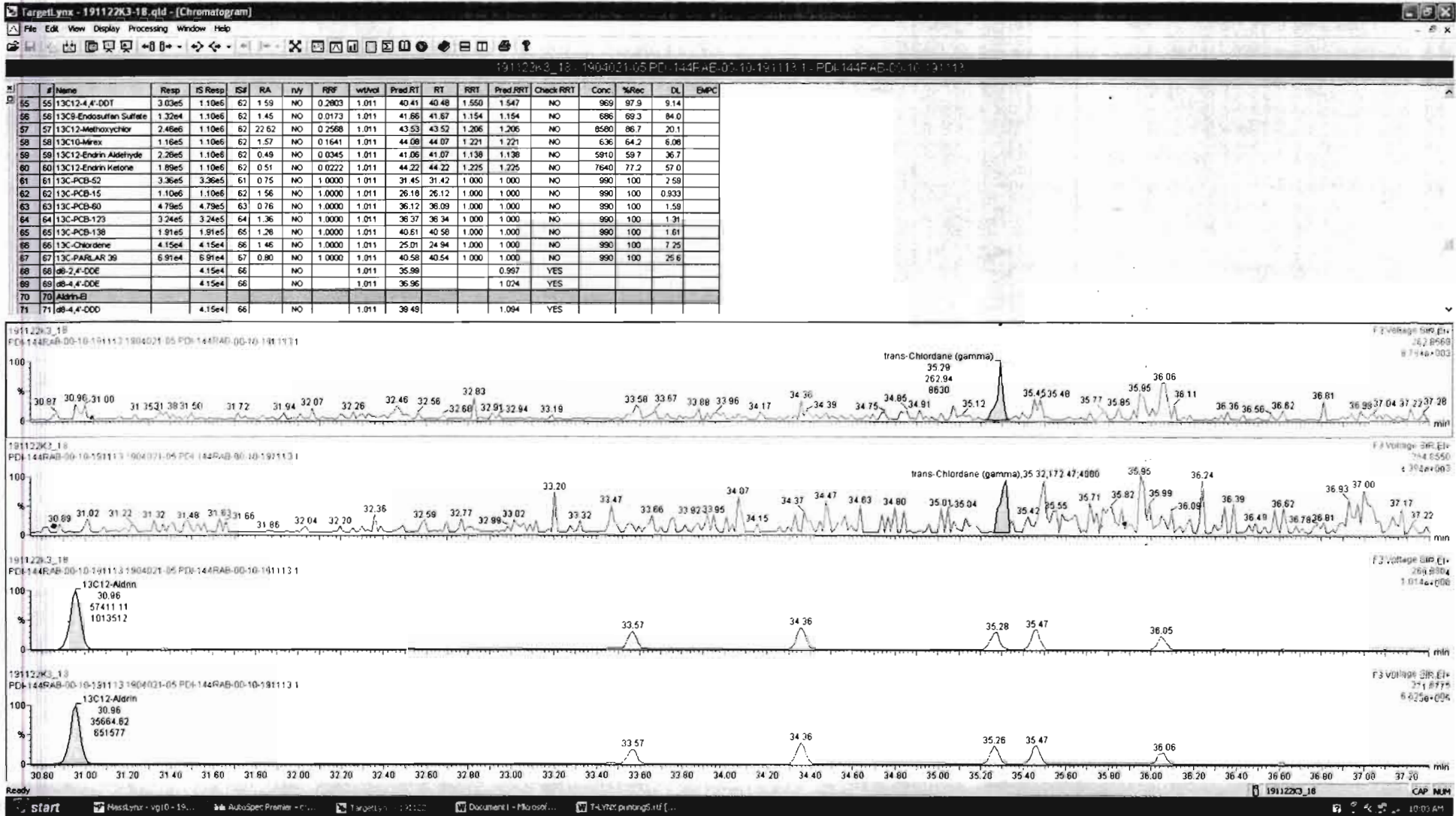
191122K3_18



191122K3_18







Dataset: Untitled

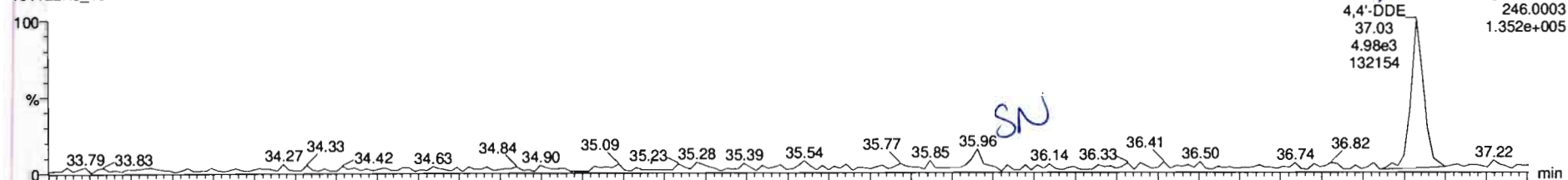
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Printed: Monday, November 25, 2019 11:23:53 Pacific Standard Time

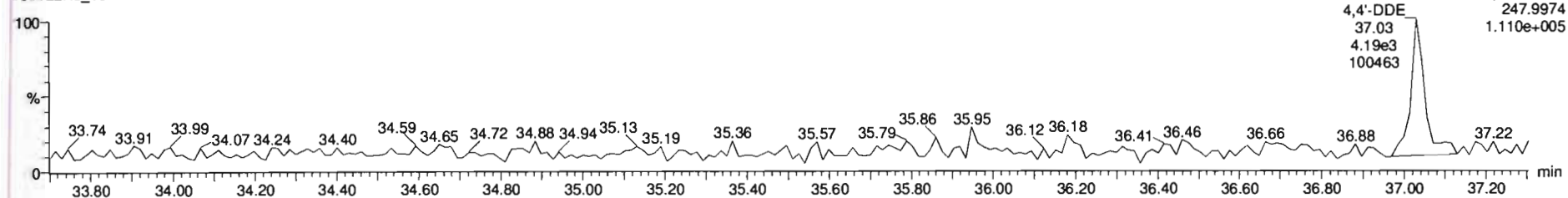
Name: 191122K3_18, Date: 23-Nov-2019, Time: 06:00:48, ID: 1904021-05 PDI-144RAB-00-10-191113 1, Description: PDI-144RAB-00-10-191113

DDMU-DDE

191122K3_18

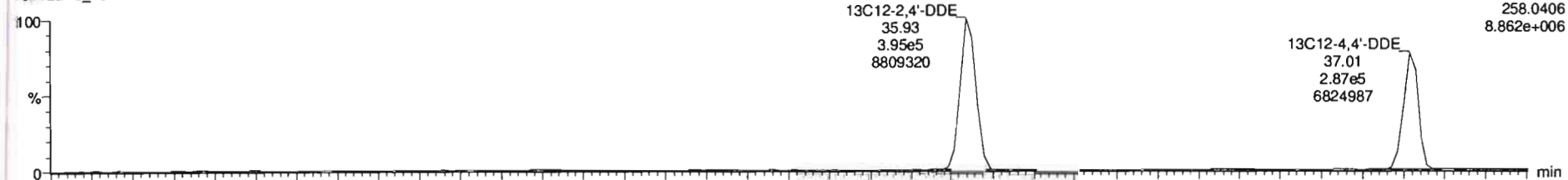


191122K3_18

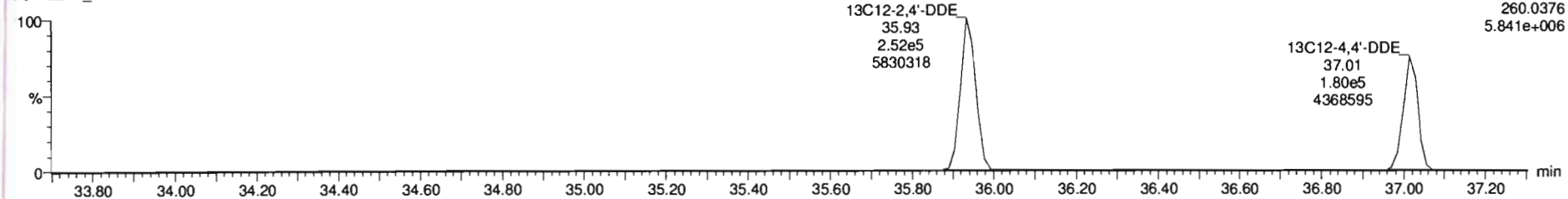


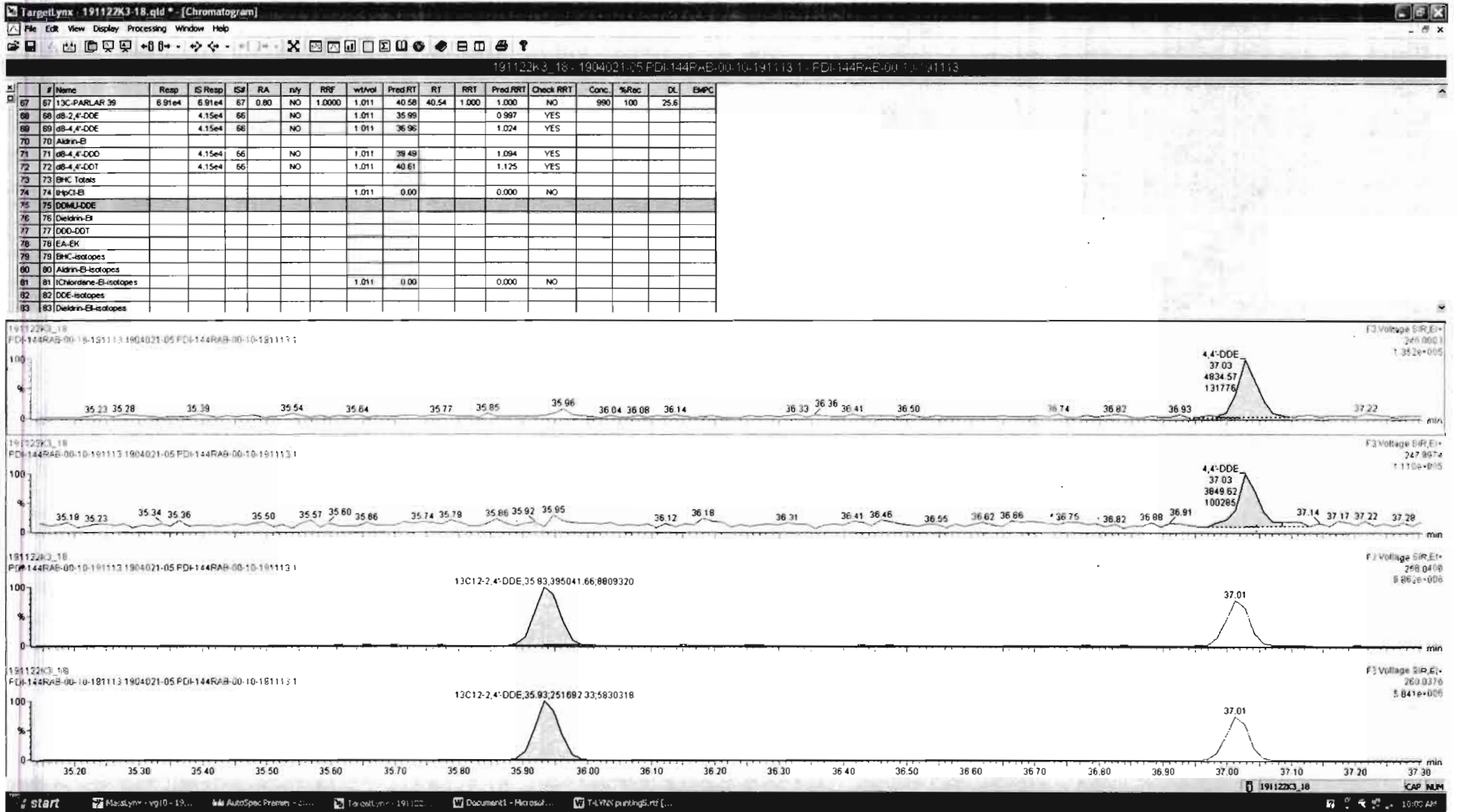
DDE-isotopes

191122K3_18



191122K3_18





Dataset: Untitled

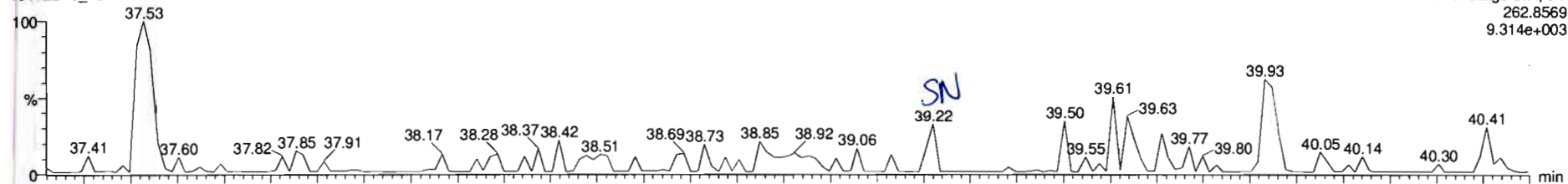
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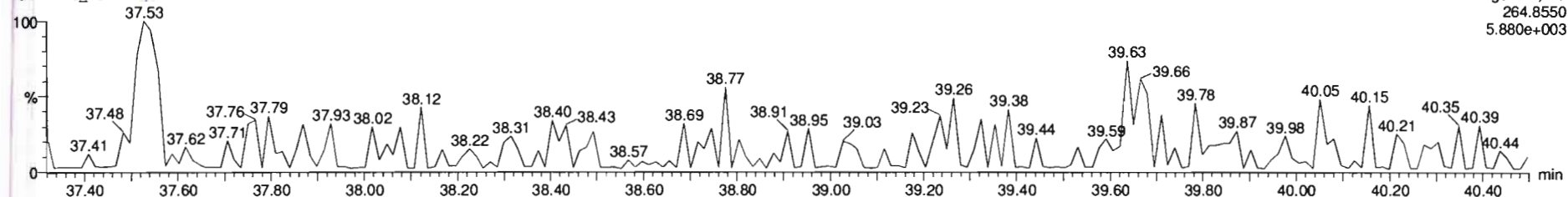
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Dieldrin-EII

191122K3_18

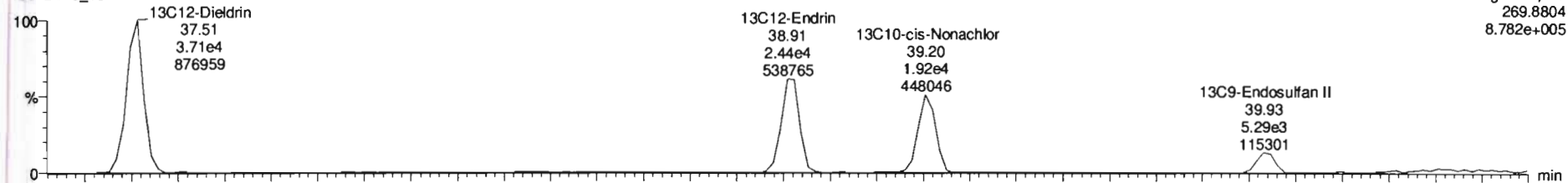


191122K3_18

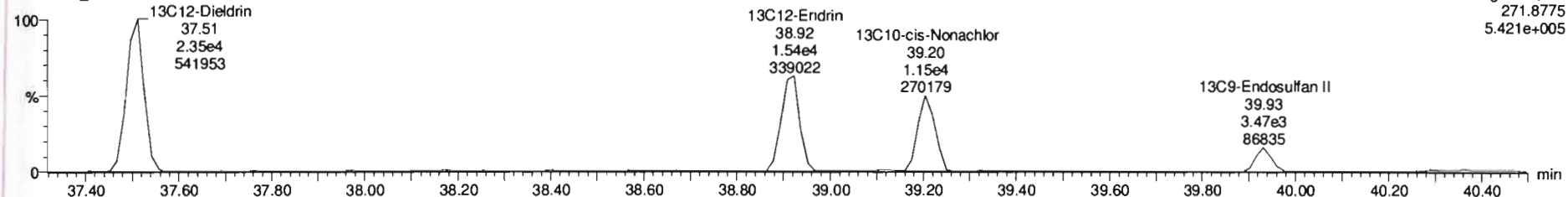


Dieldrin-EII-isotopes

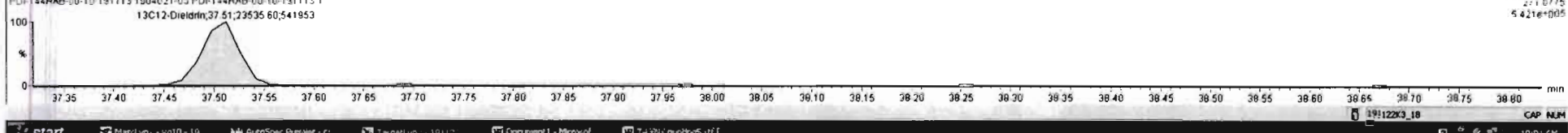
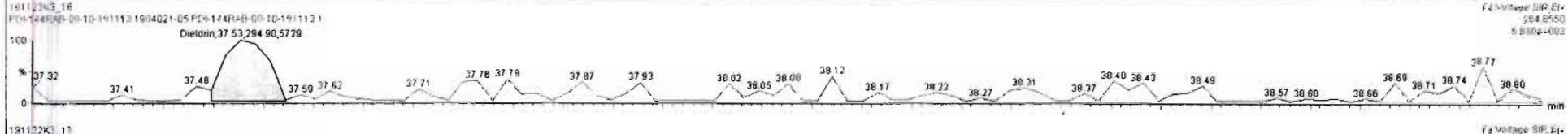
191122K3_18



191122K3_18



#	Name	Resp	IS Resp	IS#	RA	nly	RRF	wtVal	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	EMPC
67	13C-PARLAR 39	6.91e4	6.91e4	67	0.80	NO	1.0000	1.011	40.58	40.54	1.000	1.000	NO	990	100	25.6	
68	dB-2,4'-DDE		4.15e4	66		NO		1.011	35.98			0.987	YES				
69	dB-4,4'-DDE		4.15e4	66		NO		1.011	36.96			1.024	YES				
70	Alkalin-EI																
71	dB-4,4'-DDD		4.15e4	66		NO		1.011	39.49			1.094	YES				
72	dB-4,4'-DDT		4.15e4	66		NO		1.011	40.51			1.125	YES				
73	EHC Totals																
74	ImpCl-EI							1.011	0.00			0.000	NO				
75	DDMJ-DDE																
76	Dieldrin-EI																
77	DDD-DDT																
78	EA-ER																
79	EHC-isotopes																
80	Alkalin-EI-isotopes							1.011	0.00			0.000	NO				
81	1Chloroene-EI-isotopes																
82	DDE-isotopes																
83	Dieldrin-EI-isotopes																

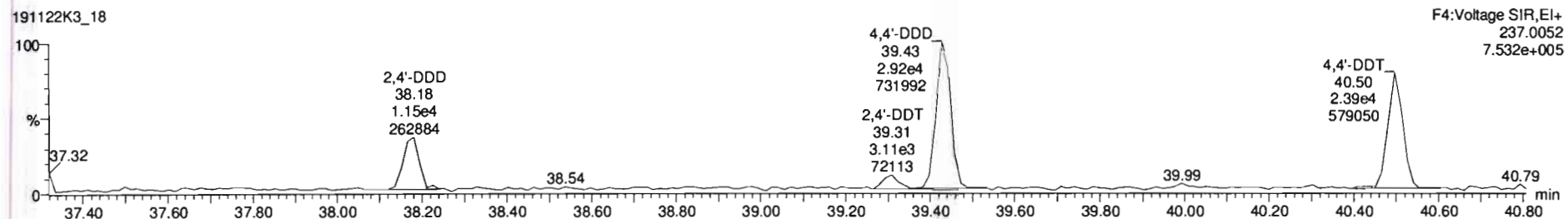
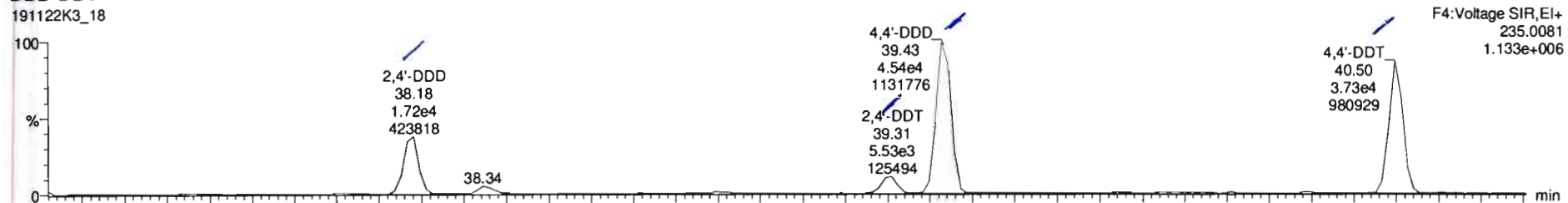


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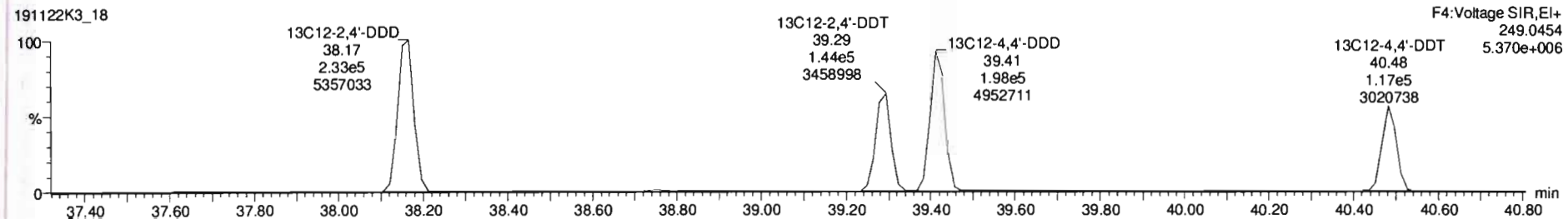
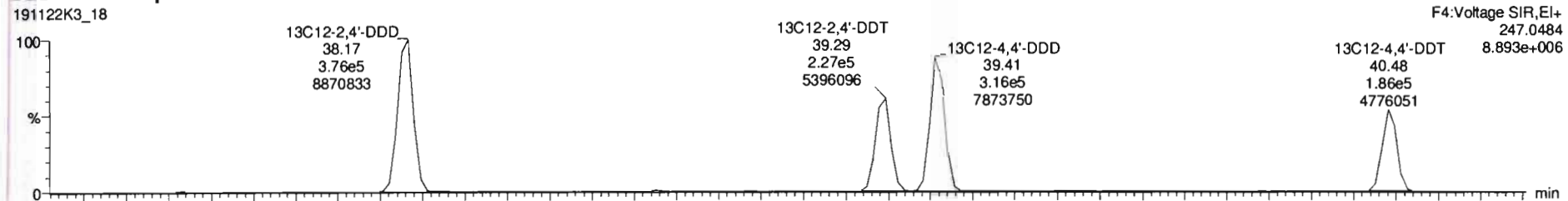
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Printed: Monday, November 25, 2019 11:23:53 Pacific Standard Time

Name: 191122K3_18, Date: 23-Nov-2019, Time: 06:00:48, ID: 1904021-05 PDI-144RAB-00-10-191113 1, Description: PDI-144RAB-00-10-191113

DDD-DDT

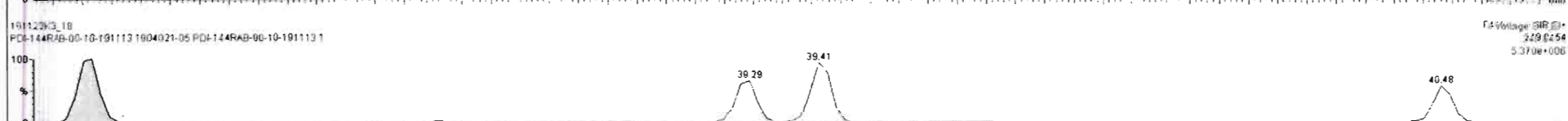
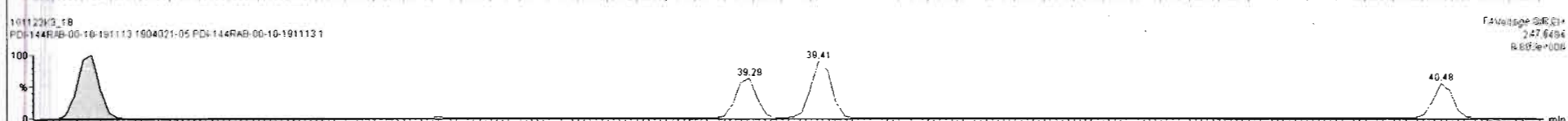
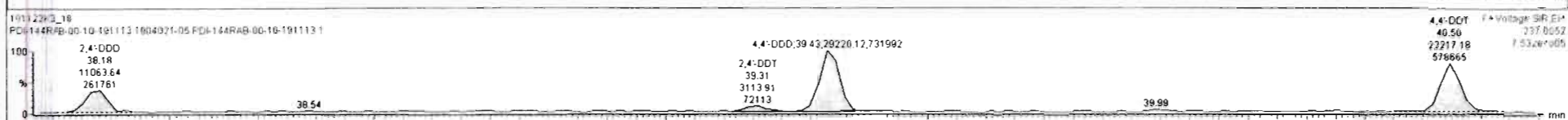
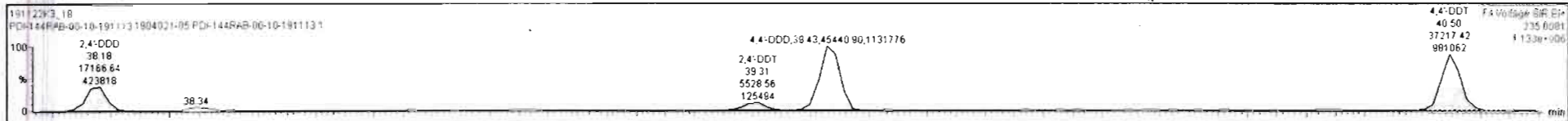


DDD-DDT-isotopes



191122K3_18 - 1904021-05 PDI-144RAB-00-10-191113 1 - PDI-144RAB-00-10-191113

#	Name	Resp	IS Resp	ISF	RA	nHy	RRF	wt/nd	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC
67	13C-PARLAR 39	6.91e4	6.91e4	67	0.80	NO	1.0000	1.011	40.58	40.54	1.000	1.000	NO			25.6	
68	d8-2,4'-DOE		4.15e4	66		NO		1.011	35.99			0.997	YES				
69	d8-4'-DOE		4.15e4	66		NO		1.011	36.96			1.024	YES				
70	Aldrin-EI																
71	d8-4'-DDD		4.15e4	66		NO		1.011	39.49			1.094	YES				
72	d8-4'-DDT		4.15e4	66		NO		1.011	40.61			1.125	YES				
73	BHC Totals																
74	DDU-EI							1.011	0.00			0.000	NO				
75	DDMU-DOE																
76	Dieldrin-EI																
77	DDD-DDT																
78	EA-EI																
79	BHC-isotopes																
80	Aldrin-EI-isotopes							1.011	0.00			0.000	NO				
81	Chlordane-EI-isotopes																
82	DDE-isotopes																
83	Dieldrin-EI-isotopes																



Dataset: Untitled

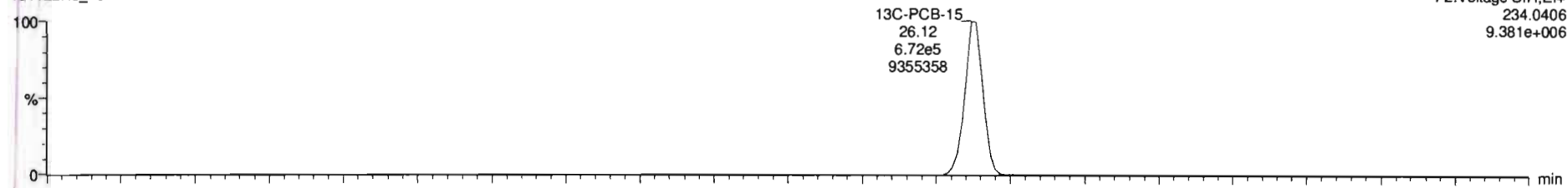
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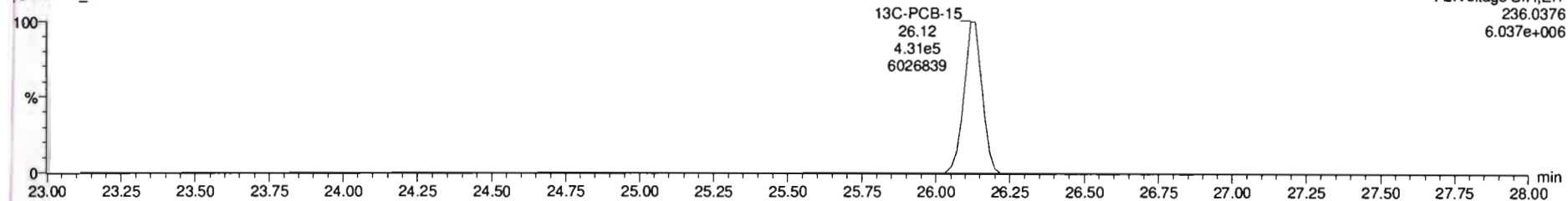
Name: 191122K3_18, Date: 23-Nov-2019, Time: 06:00:48, ID: 1904021-05 PDI-144RAB-00-10-191113 1, Description: PDI-144RAB-00-10-191113

13C-PCB-15

191122K3_18

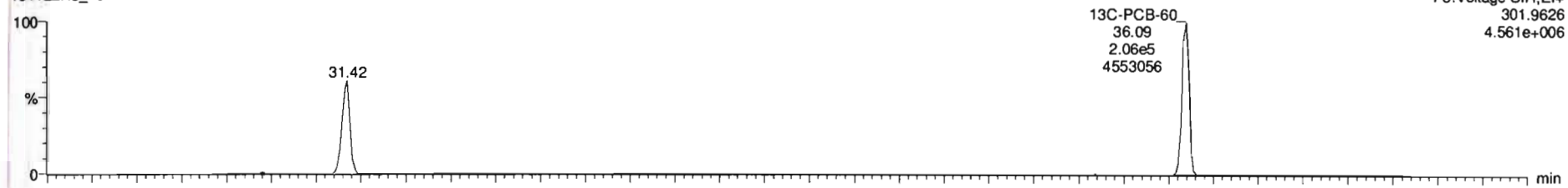


191122K3_18

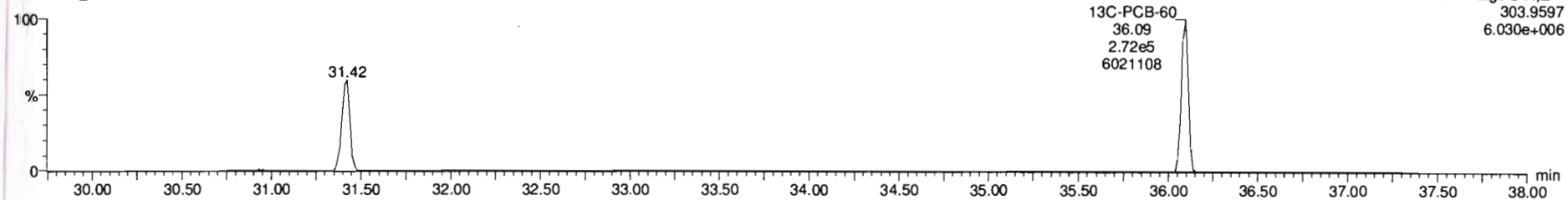


13C-PCB-60

191122K3_18



191122K3_18



Dataset: Untitled

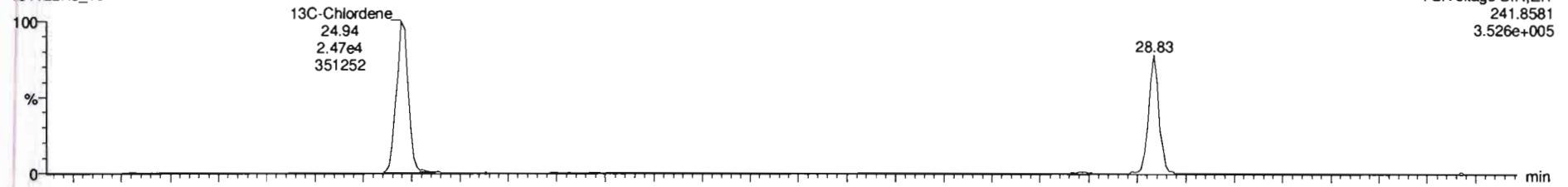
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Printed: Monday, November 25, 2019 11:23:53 Pacific Standard Time

Name: 191122K3_18, Date: 23-Nov-2019, Time: 06:00:48, ID: 1904021-05 PDI-144RAB-00-10-191113 1, Description: PDI-144RAB-00-10-191113

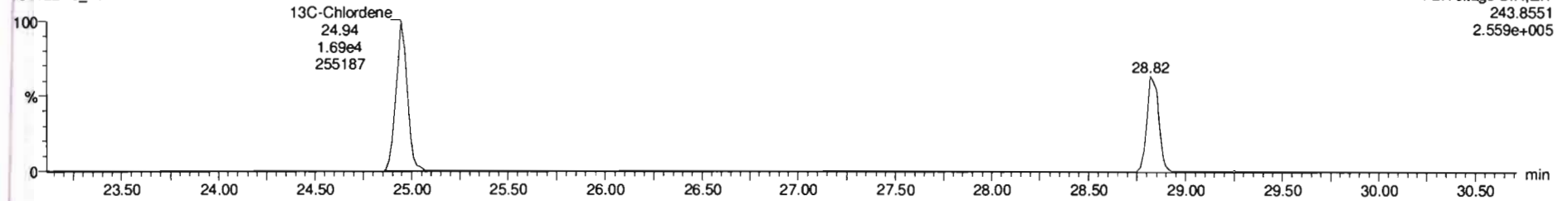
13C-Chlordene

191122K3_18



F2:Voltage SIR,EI+
241.8581
3.526e+005

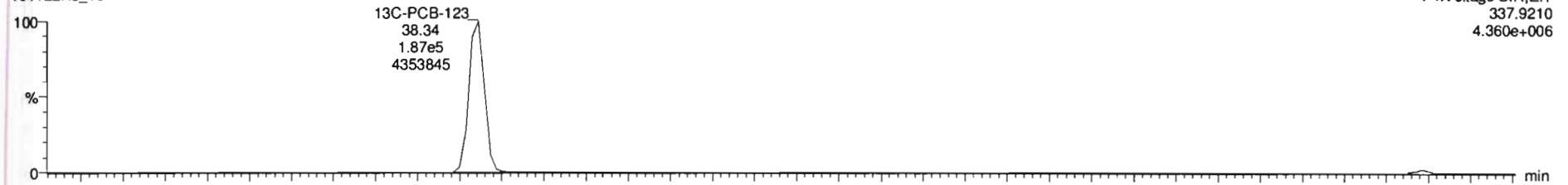
191122K3_18



F2:Voltage SIR,EI+
243.8551
2.559e+005

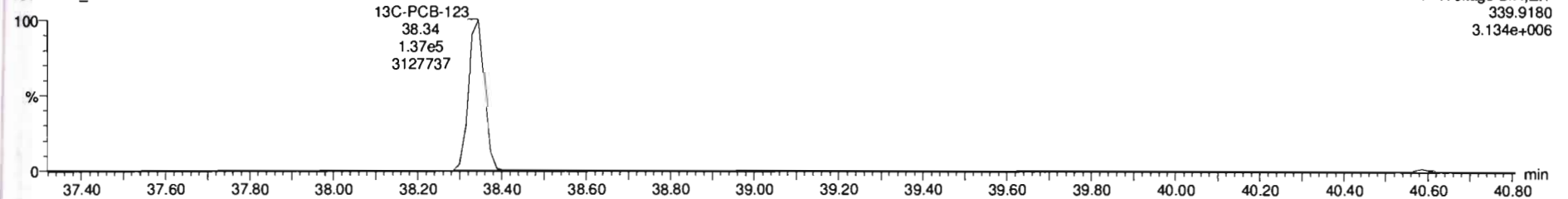
13C-PCB-123

191122K3_18



F4:Voltage SIR,EI+
337.9210
4.360e+006

191122K3_18



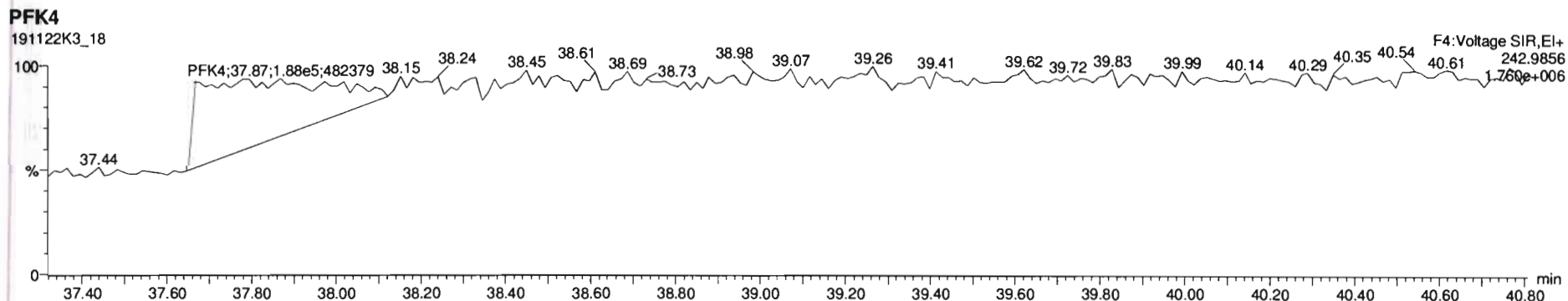
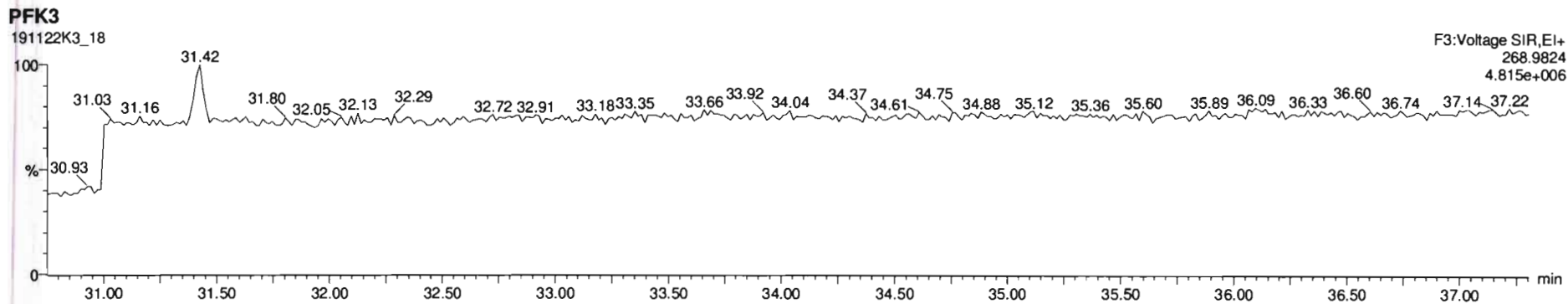
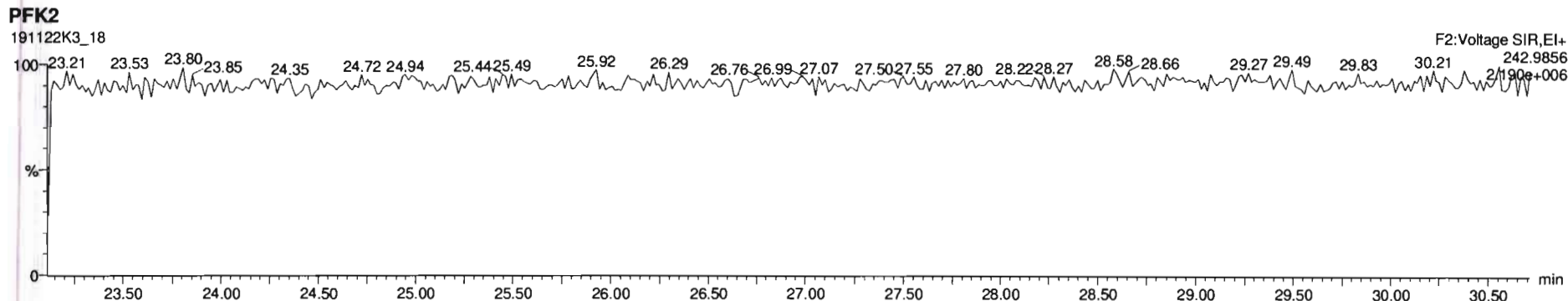
F4:Voltage SIR,EI+
339.9180
3.134e+006

Dataset: Untitled

Last Altered: Monday, November 25, 2019 11:01:53 Pacific Standard Time

Printed: Monday, November 25, 2019 11:23:53 Pacific Standard Time

Name: 191122K3_18, Date: 23-Nov-2019, Time: 06:00:48, ID: 1904021-05 PDI-144RAB-00-10-191113 1, Description: PDI-144RAB-00-10-191113



Dataset: U:\VG11.PRO\Results\191122K3\191122K3-19.qld

Last Altered: Tuesday, November 26, 2019 10:13:33 Pacific Standard Time

Printed: Tuesday, November 26, 2019 10:14:40 Pacific Standard Time

GRB 11/26/19

Cr 02/04/2020

Method: U:\VG11.PRO\MethDB\1699rrt-11-21-19.mdb 21 Nov 2019 11:39:32

Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-11-22-19-LIMITEDB.cdb 23 Nov 2019 13:11:31

Name: 191122K3_19, Date: 23-Nov-2019, Time: 06:51:35, ID: 1904021-06 PDI-144RAB-10-20-191113 1, Description: PDI-144RAB-10-20-191113

	# Name	Resp	IS Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	RRT Fail	Conc.	%Rec	DL	EMPC
1	4 Lindane (gamma-BHC)		1.48e5		NO	0.744	1.009	26.65			1.001	YES			5.52	
2	9 Aldrin		1.04e5		NO	1.02	1.009	30.97			1.001	YES			2.34	
3	10 Oxychlordane		2.53e4		NO	0.992	1.009	33.58			1.001	YES			8.52	
4	13 trans-Chlordane (gam...	6.91e2	2.56e4	3.28	YES	1.08	1.009	35.27	35.28	1.001	1.001	NO	24.7		7.62	14.7
5	14 trans-Nonachlor	3.82e2	2.86e4	1.73	NO	1.00	1.009	35.47	35.45	1.000	1.001	NO	13.2		6.74	13.2
6	15 cis-Chlordane	4.78e2	2.86e4	1.61	NO	0.981	1.009	35.96	35.95	1.014	1.014	NO	16.9		6.89	16.9
7	18 2,4'-DDE		7.23e5		NO	0.854	1.009	35.93			1.000	NO			2.36	
8	19 4,4'-DDE	1.33e4	5.14e5	1.23	NO	0.873	1.009	37.02	37.01	1.000	1.000	NO	29.4		3.03	29.4
9	20 Dieldrin	1.86e3	6.58e4	1.47	NO	0.957	1.009	37.52	37.53	1.001	1.000	NO	29.2		4.59	29.2
10	22 cis-Nonachlor		3.37e4		NO	0.956	1.009	39.20			1.000	YES			8.69	

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191122K3\191122K3-19.qld

Last Altered: Tuesday, November 26, 2019 10:13:33 Pacific Standard Time

Printed: Tuesday, November 26, 2019 10:14:46 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1699rrt-11-21-19.mdb 21 Nov 2019 11:39:32

Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-11-22-19-LIMITEDB.cdb 23 Nov 2019 13:11:31

Name: 191122K3_19, Date: 23-Nov-2019, Time: 06:51:35, ID: 1904021-06 PDI-144RAB-10-20-191113 1, Description: PDI-144RAB-10-20-191113

	# Name	Resp	IS Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	RRT Fail	Conc.	%Rec	DL	EMPC
1	24 2,4'-DDD	4.05e4	6.70e5	1.69	NO	0.915	1.009	38.15	38.17	1.000	1.000	NO	65.6		3.63	65.6
2	25 2,4'-DDT	1.53e4	4.22e5	1.54	NO	0.921	1.009	39.30	39.29	1.000	1.000	NO	39.1		5.15	39.1
3	26 4,4'-DDD	1.16e5	5.62e5	1.58	NO	1.00	1.009	39.42	39.41	1.000	1.000	NO	204		3.62	204
4	27 4,4'-DDT	9.01e4	3.41e5	1.53	NO	0.986	1.009	40.49	40.48	1.000	1.000	NO	265		6.14	265
5	36 13C6-Lindane (gamma)	1.48e5	1.13e6	0.82	NO	0.189	1.009	26.63	26.62	1.019	1.020	NO	687	69.3	4.49	
6	40 13C12-Aldrin	1.04e5	1.13e6	1.67	NO	0.122	1.009	30.93	30.94	1.185	1.184	NO	753	76.0	5.59	
7	41 13C10-Oxychlorane	2.53e4	1.13e6	1.59	NO	0.0283	1.009	33.53	33.56	1.285	1.284	NO	788	79.5	24.0	
8	43 13C10-trans-Chlordan...	2.56e4	1.13e6	1.56	NO	0.0292	1.009	35.23	35.25	1.350	1.349	NO	774	78.1	23.3	
9	44 13C10-trans-Nonachlor	2.86e4	1.13e6	1.52	NO	0.0333	1.009	35.42	35.45	1.357	1.356	NO	754	76.1	20.4	

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191122K3\191122K3-19.qld

Last Altered: Tuesday, November 26, 2019 10:13:33 Pacific Standard Time

Printed: Tuesday, November 26, 2019 10:14:54 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1699rrt-11-21-19.mdb 21 Nov 2019 11:39:32

Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-11-22-19-LIMITEDB.cdb 23 Nov 2019 13:11:31

Name: 191122K3_19, Date: 23-Nov-2019, Time: 06:51:35, ID: 1904021-06 PDI-144RAB-10-20-191113 1, Description: PDI-144RAB-10-20-191113

	# Name	Resp	IS Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	RRT Fail	Conc.	%Rec	DL	EMPC
1	46 13C12-2,4'-DDE	7.23e5	1.13e6	1.57	NO	0.763	1.009	35.94	35.92	0.996	0.996	NO	833	84.1	3.91	
2	47 13C12-4,4'-DDE	5.14e5	1.13e6	1.55	NO	0.552	1.009	37.00	37.00	1.025	1.026	NO	820	82.7	5.41	
3	48 13C12-Dieldrin	6.58e4	1.13e6	1.60	NO	0.0749	1.009	37.50	37.50	1.039	1.039	NO	773	78.0	14.6	
4	50 13C10-cis-Nonachlor	3.37e4	1.13e6	1.51	NO	0.0389	1.009	39.19	39.19	1.086	1.086	NO	763	76.9	28.1	
5	52 13C12-2,4'-DDD	6.70e5	1.13e6	1.61	NO	0.588	1.009	38.10	38.15	1.461	1.459	NO	1000	101	4.72	
6	53 13C12-2,4'-DDT	4.22e5	1.13e6	1.59	NO	0.370	1.009	39.23	39.28	1.504	1.502	NO	1000	101	7.50	
7	54 13C12-4,4'-DDD	5.62e5	1.13e6	1.58	NO	0.473	1.009	39.35	39.40	1.508	1.507	NO	1050	105	5.87	
8	55 13C12-4,4'-DDT	3.41e5	1.13e6	1.60	NO	0.280	1.009	40.41	40.47	1.549	1.547	NO	1070	108	9.91	
9	62 13C-PCB-15	1.13e6	1.13e6	1.56	NO	1.00	1.009	26.18	26.12	1.000	1.000	NO	991	100	0.836	

Dataset: Untitled

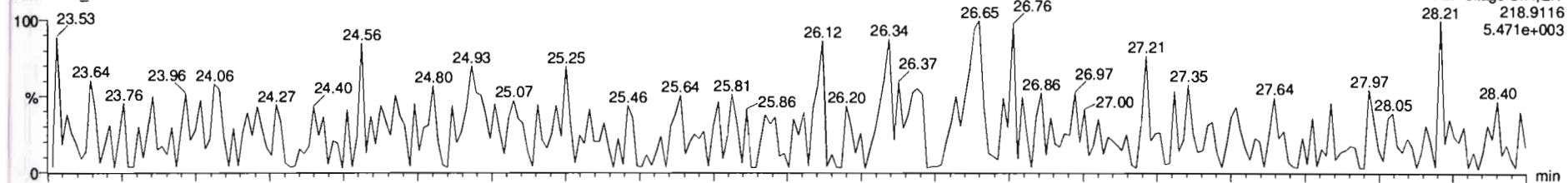
Last Altered: Monday, November 25, 2019 11:01:53 Pacific Standard Time

Printed: Monday, November 25, 2019 11:23:53 Pacific Standard Time

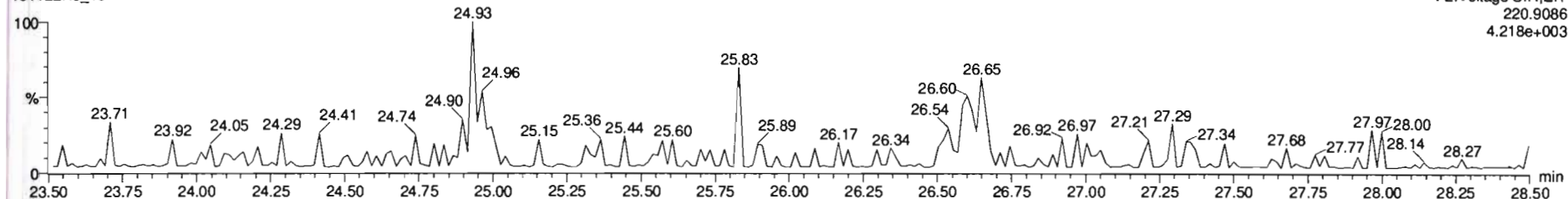
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Lindane (gamma-BHC)

191122K3_19

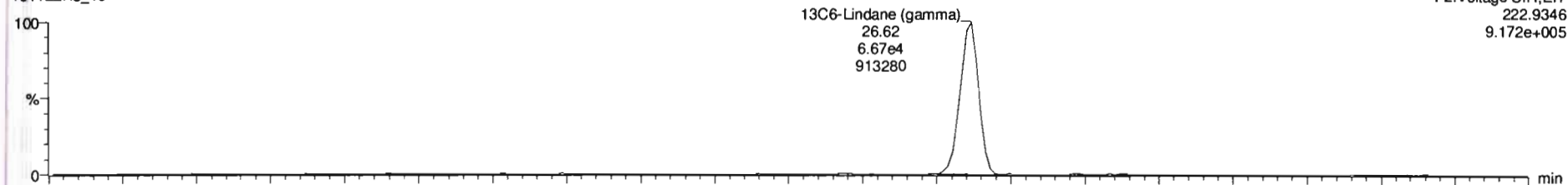


191122K3_19

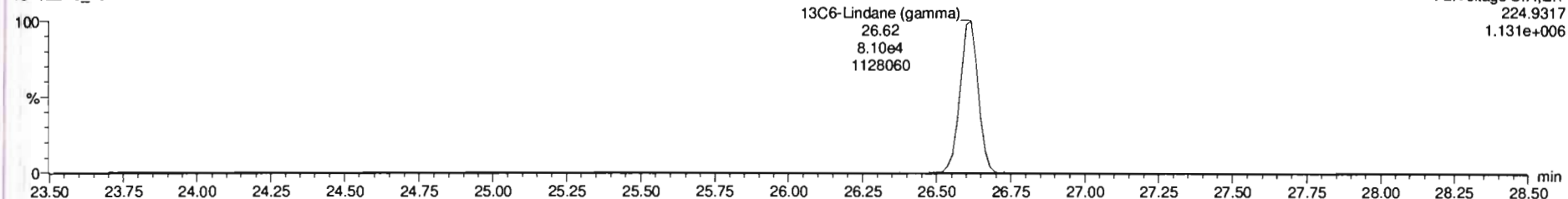


13C6-Lindane (gamma)

191122K3_19



191122K3_19



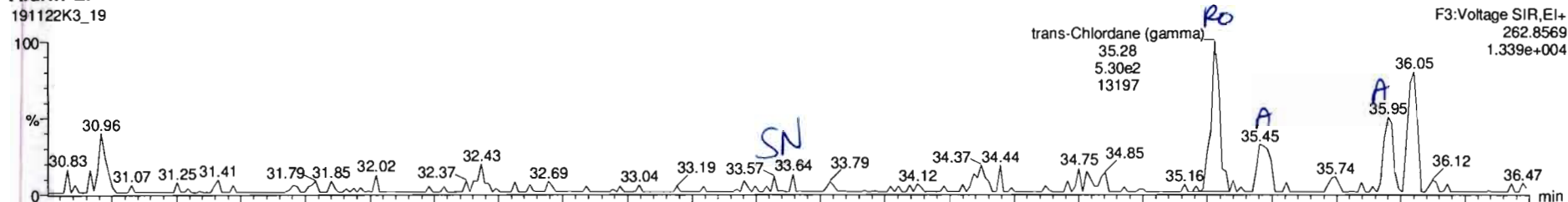
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Printed: Monday, November 25, 2019 11:23:53 Pacific Standard Time

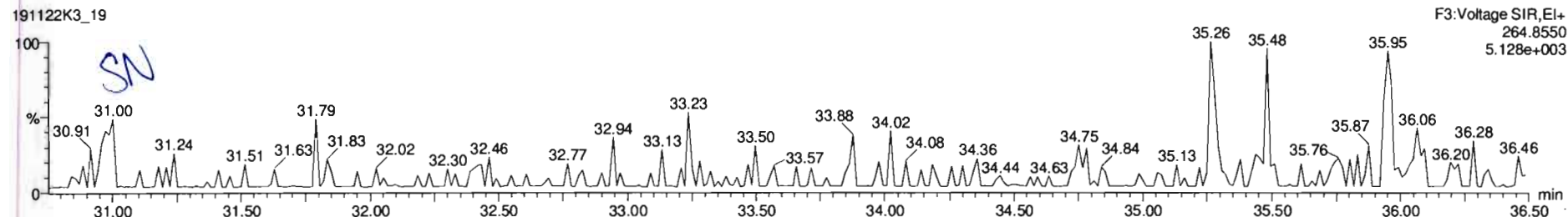
Name: 191122K3_19, Date: 23-Nov-2019, Time: 06:51:35, ID: 1904021-06 PDI-144RAB-10-20-191113 1, Description: PDI-144RAB-10-20-191113

Aldrin-EI

191122K3_19

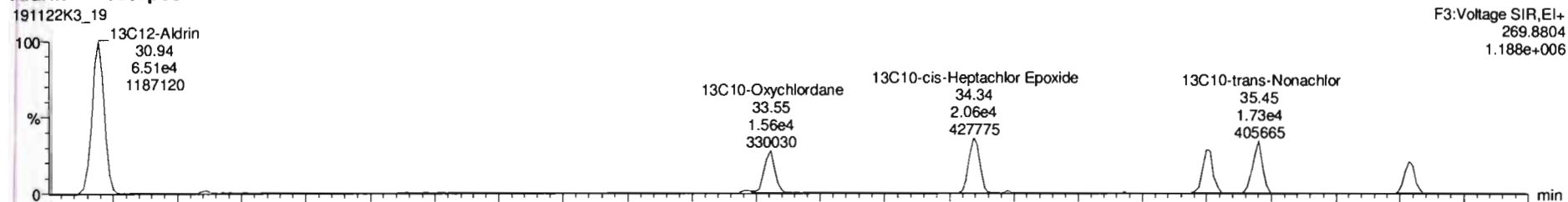


191122K3_19

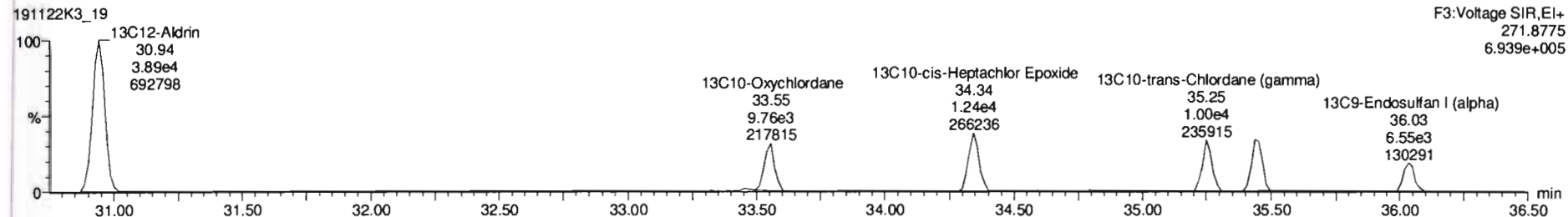


Aldrin-EI-isotopes

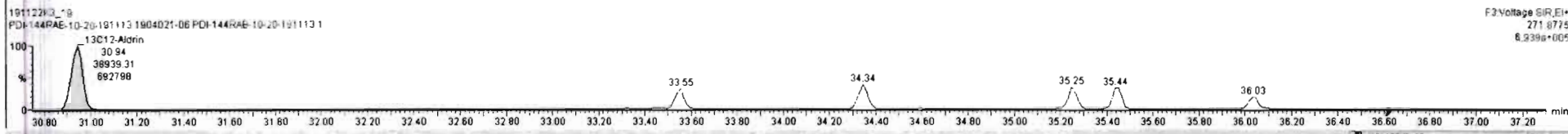
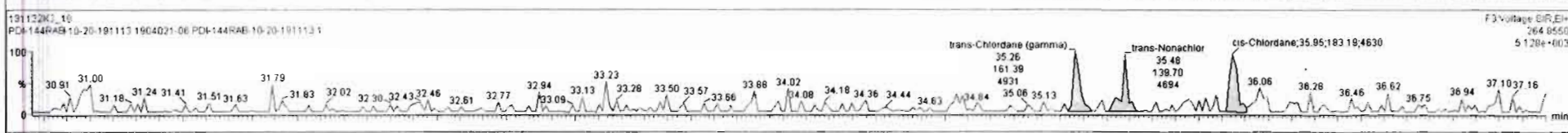
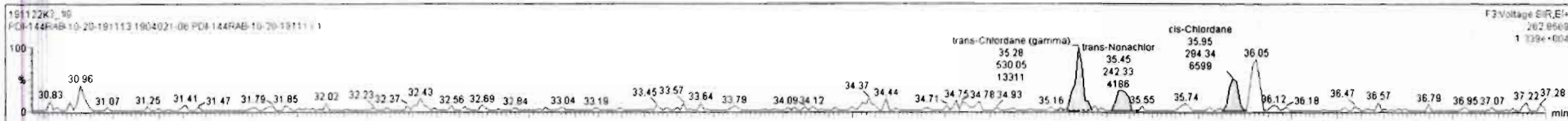
191122K3_19



191122K3_19



#	Name	Resp	IS Resp	IS#	RA	nly	RR#	wtVol	Pred.RT	RT	RRT	Pred.RRT	Check RRT	Conc.	%Rec	DL	BMP
59	13C12-Endrin Aldehyde	3.06e5	1.13e6	62	0.50	NO	0.0345	1.009	41.04	41.05	1.136	1.136	NO	7800	78.7	44.5	
60	13C12-Endrin Ketone	2.17e5	1.13e6	62	0.48	NO	0.0222	1.009	44.20	44.20	1.225	1.225	NO	8600	86.7	58.2	
61	13C-PCB-52	3.30e5	3.30e5	61	0.74	NO	1.0000	1.009	31.45	31.40	1.000	1.000	NO	991	100	2.47	
62	13C-PCB-15	1.13e6	1.13e6	62	1.56	NO	1.0000	1.009	26.18	26.12	1.000	1.000	NO	991	100	0.636	
63	13C-PCB-60	4.83e5	4.83e5	63	0.73	NO	1.0000	1.009	38.12	38.08	1.000	1.000	NO	991	100	1.37	
64	13C-PCB-123	3.34e5	3.34e5	64	1.34	NO	1.0000	1.009	38.37	38.33	1.000	1.000	NO	991	100	1.43	
65	13C-PCB-138	1.95e5	1.95e5	65	1.26	NO	1.0000	1.009	40.61	40.57	1.000	1.000	NO	991	100	1.69	
66	13C-Chlordane	4.22e4	4.22e4	66	1.59	NO	1.0000	1.009	25.01	24.93	1.000	1.000	NO	991	100	6.79	
67	13C-PARLAR 39	7.11e4	7.11e4	67	0.81	NO	1.0000	1.009	40.58	40.53	1.000	1.000	NO	991	100	26.3	
68	dB-2,4'-DDE	1.15e3	4.22e4	68		NO		1.009	35.97	36.02	0.998	0.997	NO				
69	dB-4,4'-DDE	1.31e3	4.22e4	68		NO		1.009	36.94	36.92	1.023	1.024	NO				
70	Aldrin-B																
71	dB-4,4'-DDD		4.22e4	66		NO		1.008	39.47			1.094	YES				
72	dB-4,4'-DDT		4.22e4	66		NO		1.009	40.59			1.125	YES				
73	BHC Totals																
74	(hpc)EI							1.009	0.00			0.000	NO				
75	DDMU-DDE																



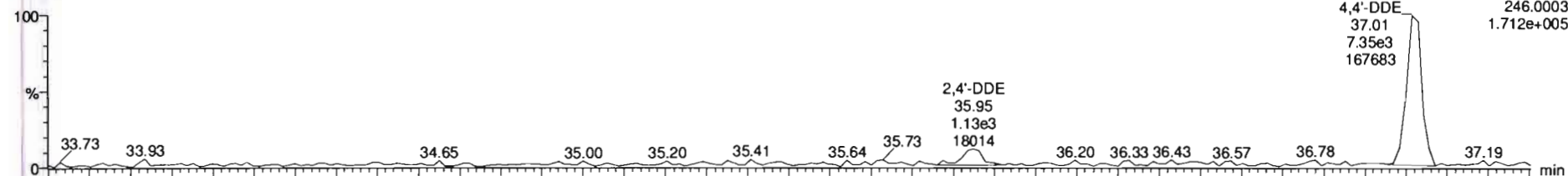
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Printed: Monday, November 25, 2019 11:23:53 Pacific Standard Time

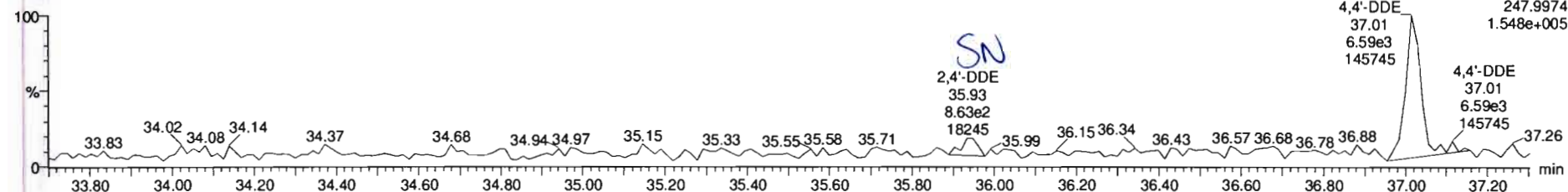
Name: 191122K3_19, Date: 23-Nov-2019, Time: 06:51:35, ID: 1904021-06 PDI-144RAB-10-20-191113 1, Description: PDI-144RAB-10-20-191113

DDMU-DDE

191122K3_19

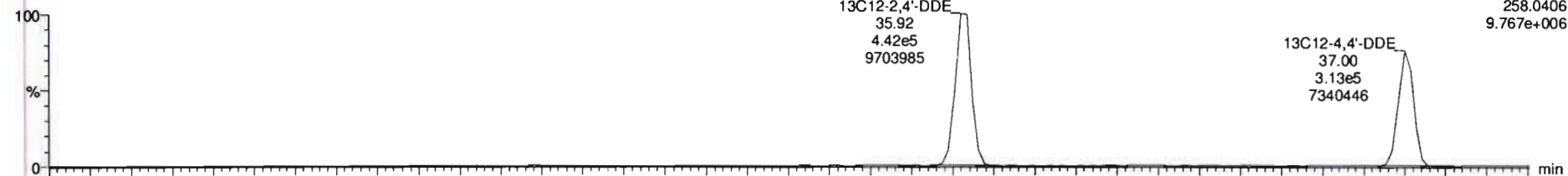


191122K3_19

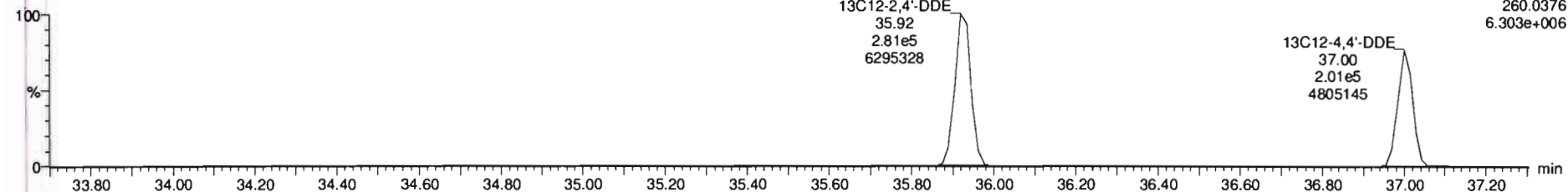


DDE-isotopes

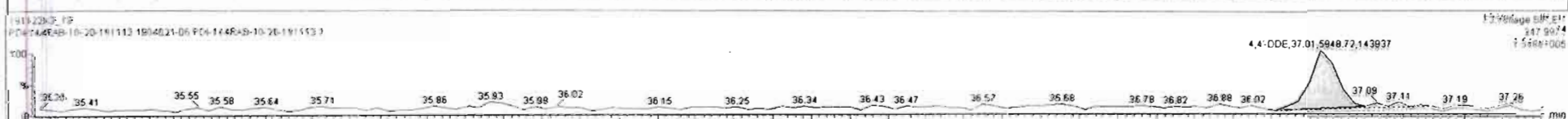
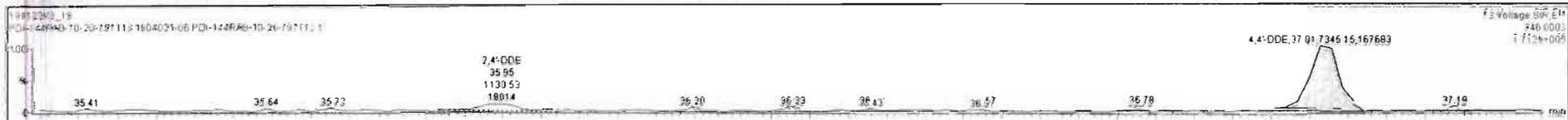
191122K3_19



191122K3_19



#	Name	Resp	IS Resp	IS#	RA	nly	RRF	wt/nd	Pred.RT	RT	RRT	Pred.RRT	Check.RRT	Conc.	%Rec	DL	EMPC	
59	13C12-Endrin Aldehyde	3.06e5	1.13e6	62	0.50	NO	0.0345	1.009	41.04	41.05	1.138	1.138	NO	7800	78.7	44.5		
60	13C12-Endrin Ketone	2.17e5	1.13e6	62	0.46	NO	0.0222	1.008	44.20	44.20	1.225	1.225	NO	8600	86.7	69.2		
61	13C-PCB-52	3.30e5	3.30e5	81	0.74	NO	1.0000	1.009	31.45	31.40	1.000	1.000	NO	991	100	2.47		
62	13C-PCB-15	1.13e6	1.13e6	62	1.56	NO	1.0000	1.009	26.18	26.12	1.000	1.000	NO	991	100	0.836		
63	13C-PCB-60	4.83e5	4.83e5	63	0.73	NO	1.0000	1.009	36.12	36.06	1.000	1.000	NO	991	100	1.37		
64	13C-PCB-123	3.34e5	3.34e5	64	1.34	NO	1.0000	1.009	38.37	38.33	1.000	1.000	NO	991	100	1.43		
65	13C-PCB-138	1.95e5	1.95e5	65	1.26	NO	1.0000	1.009	40.61	40.57	1.000	1.000	NO	991	100	1.69		
66	13C-Chlordane	4.22e4	4.22e4	66	1.59	NO	1.0000	1.009	25.01	24.93	1.000	1.000	NO	991	100	6.79		
67	13C-PARLAR 38	7.11e4	7.11e4	67	0.81	NO	1.0000	1.009	40.58	40.53	1.000	1.000	NO	991	100	26.3		
68	ds-2,4'-DDE	1.15e3	4.22e4	66		NO		1.009	35.97	36.02	0.998	0.997	NO					
69	ds-4,4'-DDE	1.31e3	4.22e4	66		NO		1.009	36.94	36.92	1.023	1.024	NO					
70	Aldrin-B																	
71	ds-4,4'-DDD		4.22e4	66		NO		1.009	39.47			1.094	YES					
72	ds-4,4'-DDT		4.22e4	66		NO		1.009	40.59			1.125	YES					
73	EMC Totals																	
74	ImpCl-B							1.009	0.00			0.000	NO					
75	DDMU-DDE																	



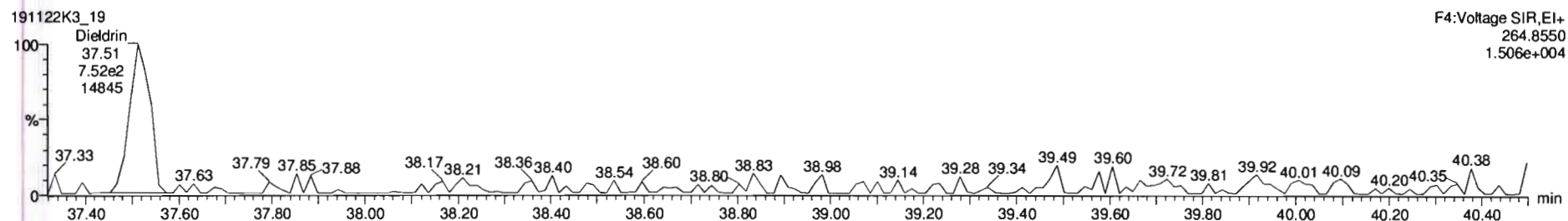
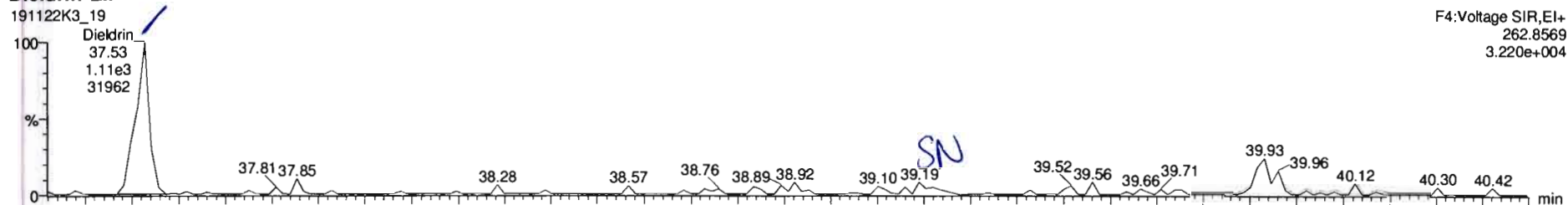
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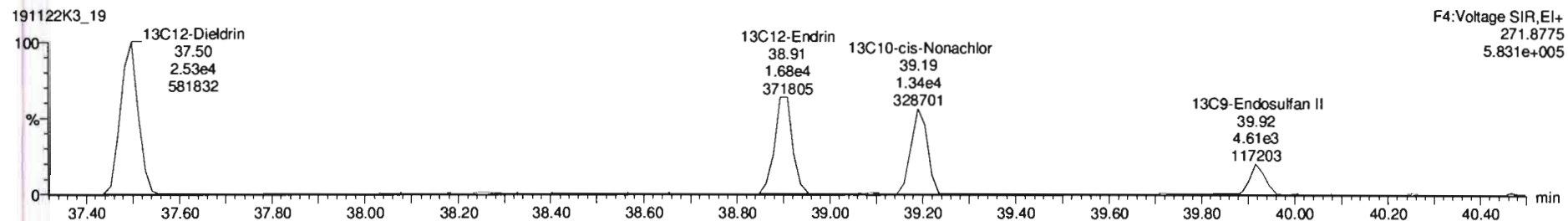
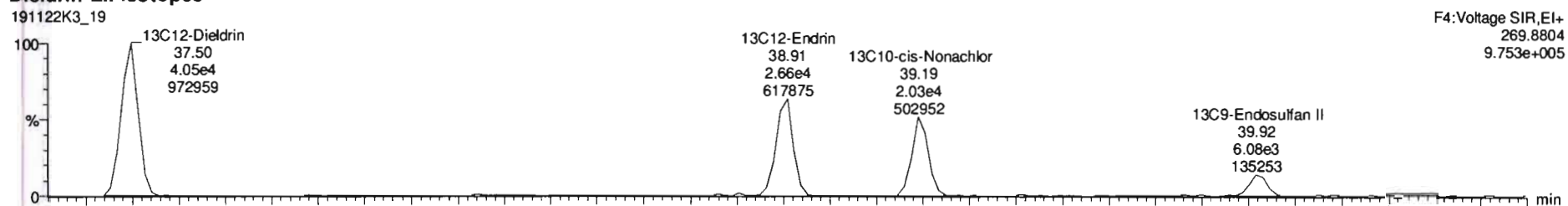
Printed: Monday, November 25, 2019 11:23:53 Pacific Standard Time

Name: 191122K3_19, Date: 23-Nov-2019, Time: 06:51:35, ID: 1904021-06 PDI-144RAB-10-20-191113 1, Description: PDI-144RAB-10-20-191113

Dieldrin-EII



Dieldrin-EII-isotopes



Dataset: Untitled

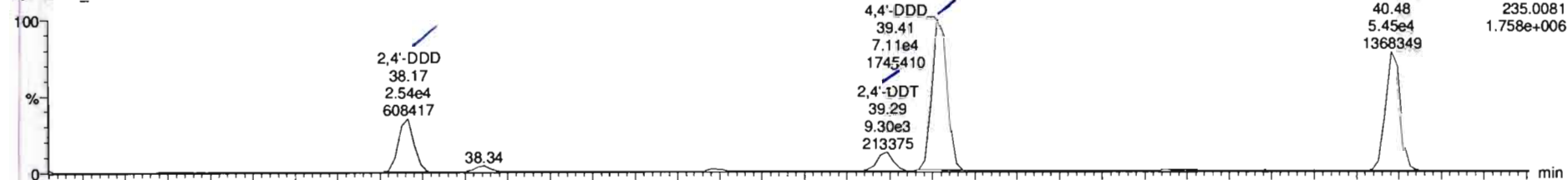
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Printed: Monday, November 25, 2019 11:23:53 Pacific Standard Time

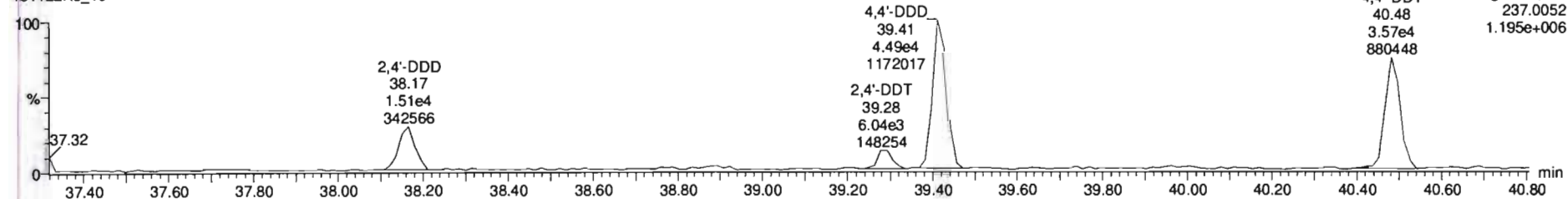
Name: 191122K3_19, Date: 23-Nov-2019, Time: 06:51:35, ID: 1904021-06 PDI-144RAB-10-20-191113 1, Description: PDI-144RAB-10-20-191113

DDD-DDT

191122K3_19

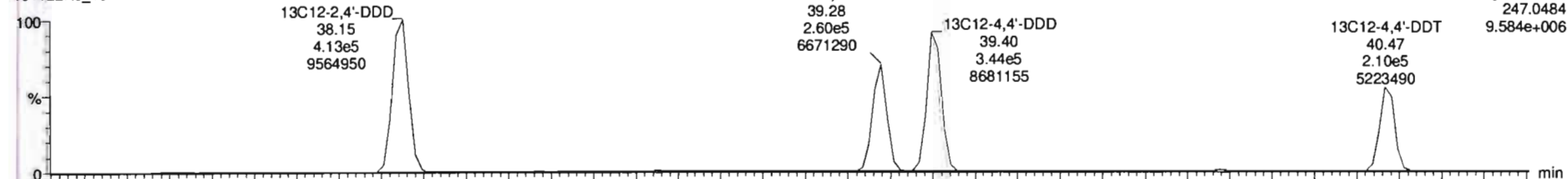


191122K3_19

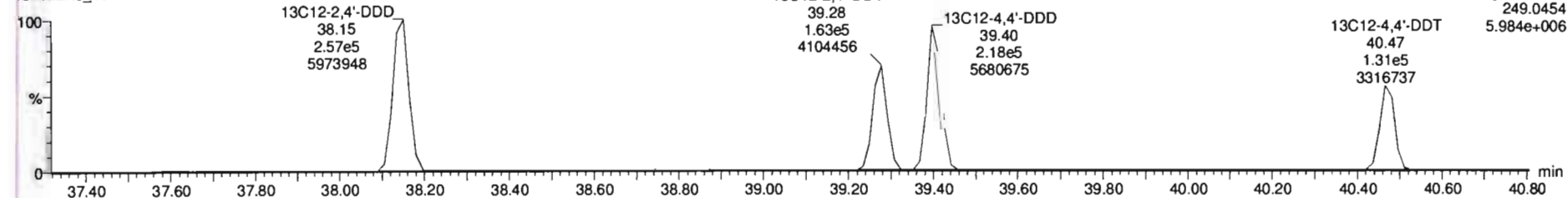


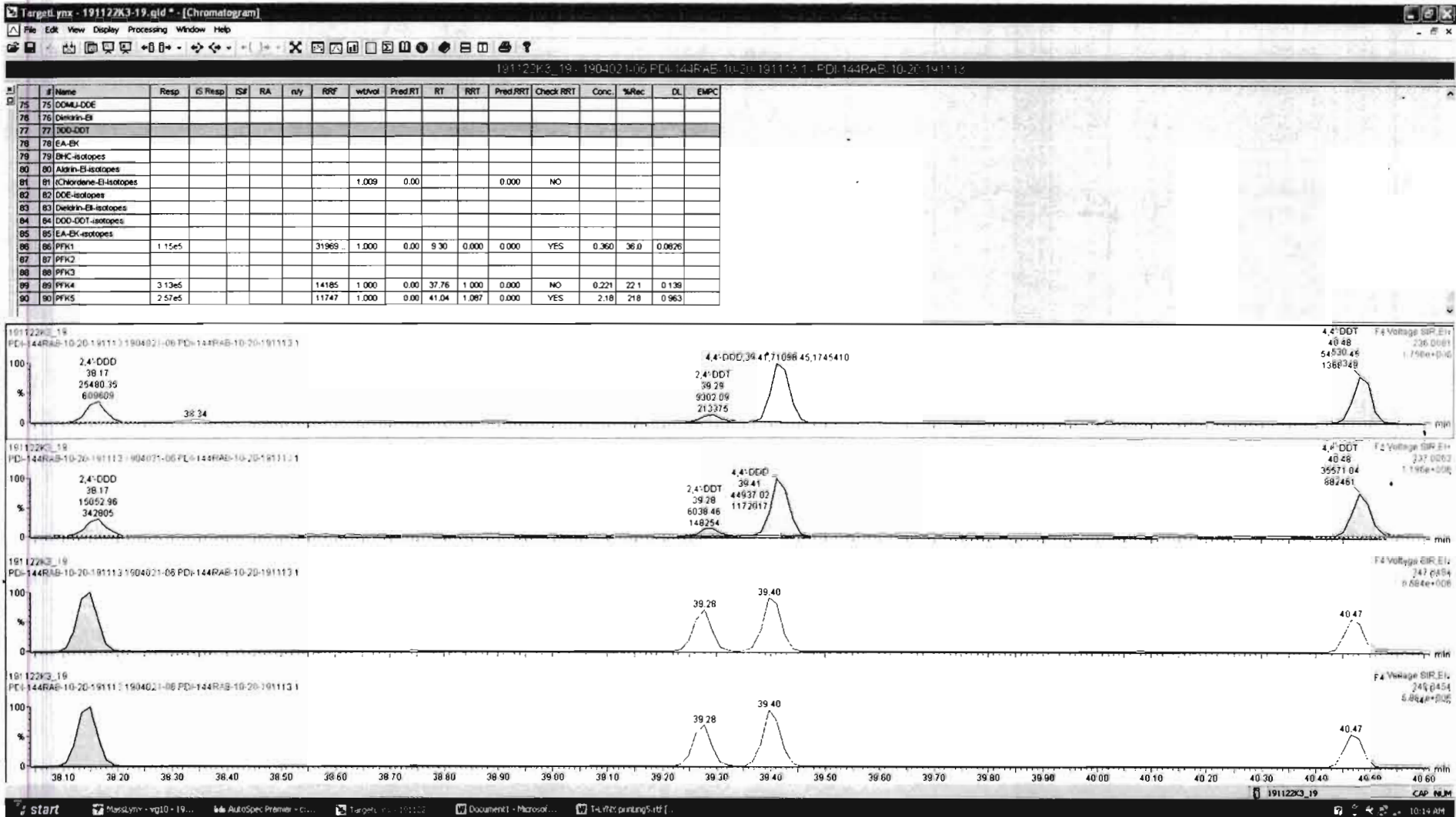
DDD-DDT-isotopes

191122K3_19



191122K3_19





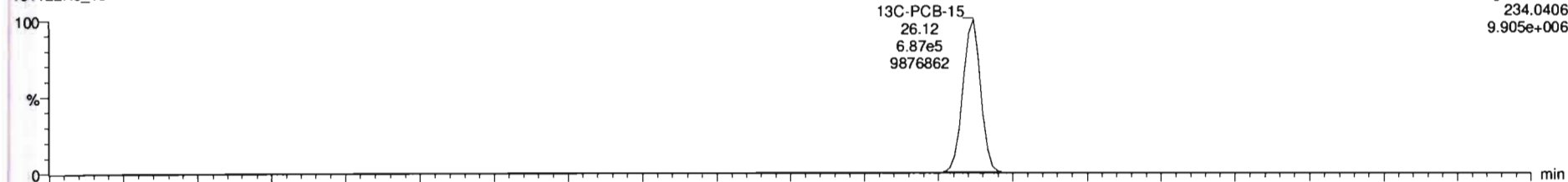
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Last Altered: Monday, November 25, 2019 11:01:53 Pacific Standard Time
Printed: Monday, November 25, 2019 11:23:53 Pacific Standard Time

Name: 191122K3_19, Date: 23-Nov-2019, Time: 06:51:35, ID: 1904021-06 PDI-144RAB-10-20-191113 1, Description: PDI-144RAB-10-20-191113

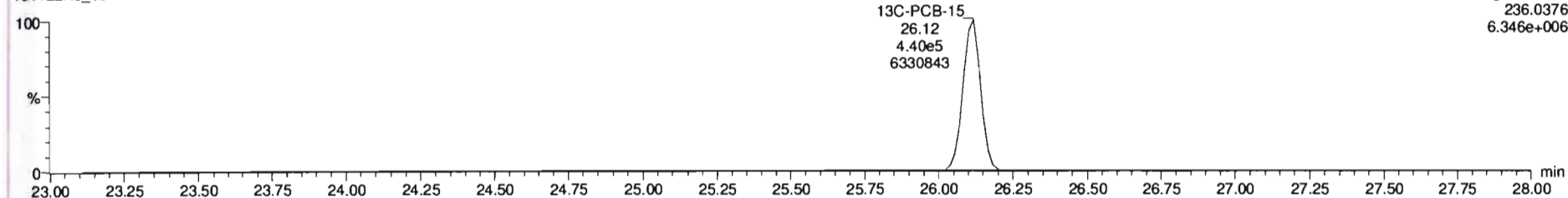
13C-PCB-15

191122K3_19



F2:Voltage SIR,EI+
234.0406
9.905e+006

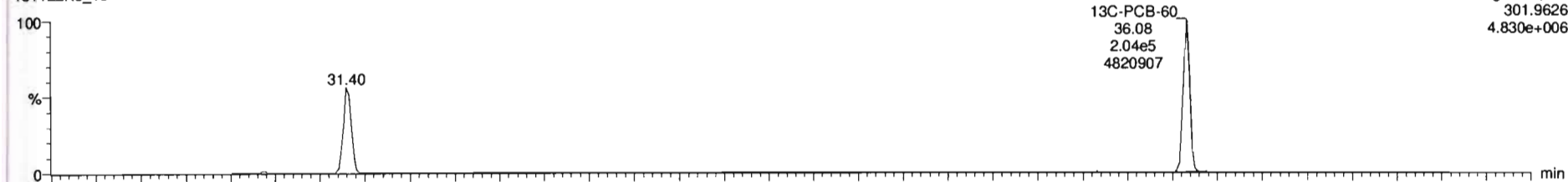
191122K3_19



F2:Voltage SIR,EI+
236.0376
6.346e+006

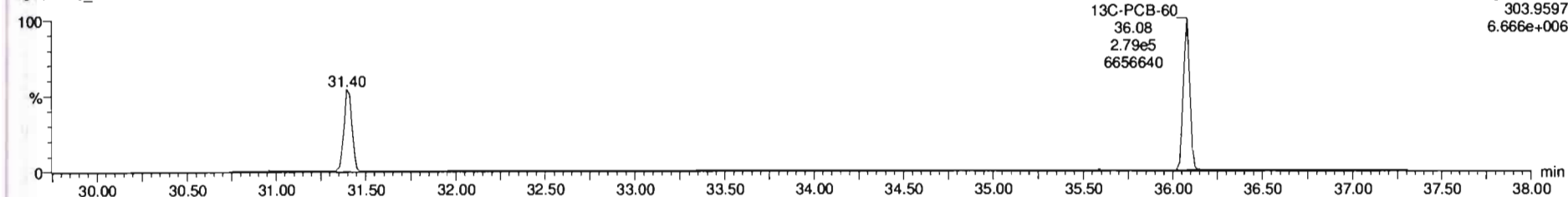
13C-PCB-60

191122K3_19



F3:Voltage SIR,EI+
301.9626
4.830e+006

191122K3_19



F3:Voltage SIR,EI+
303.9597
6.666e+006

Dataset: Untitled

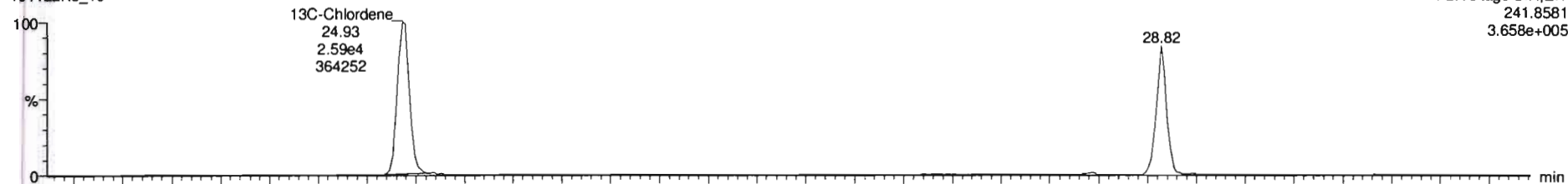
Last Altered: Monday, November 25, 2019 11:01:53 Pacific Standard Time

Printed: Monday, November 25, 2019 11:23:53 Pacific Standard Time

Name: 191122K3_19, Date: 23-Nov-2019, Time: 06:51:35, ID: 1904021-06 PDI-144RAB-10-20-191113 1, Description: PDI-144RAB-10-20-191113

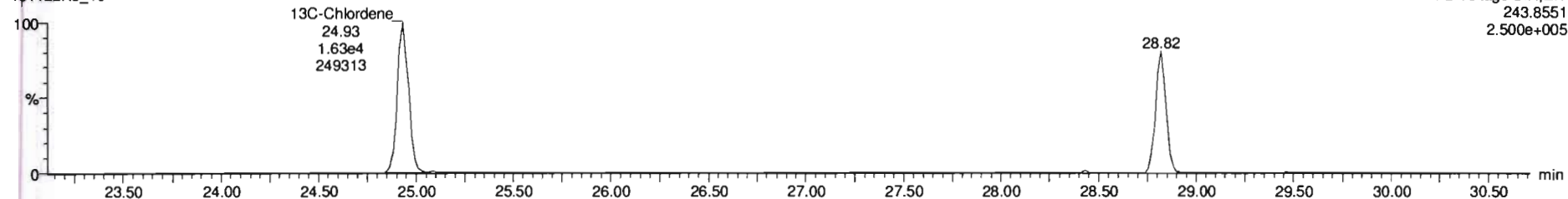
13C-Chlordene

191122K3_19



F2:Voltage SIR,EI+
241.8581
3.658e+005

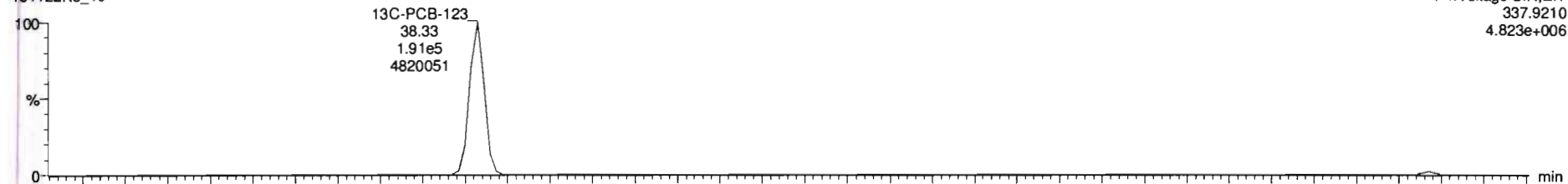
191122K3_19



F2:Voltage SIR,EI+
243.8551
2.500e+005

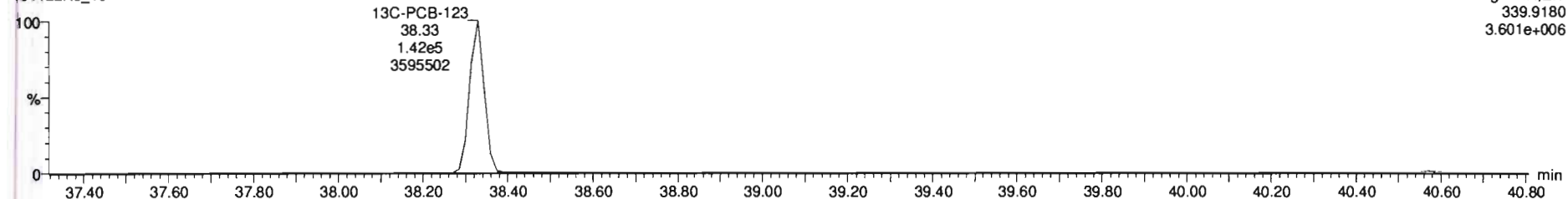
13C-PCB-123

191122K3_19



F4:Voltage SIR,EI+
337.9210
4.823e+006

191122K3_19

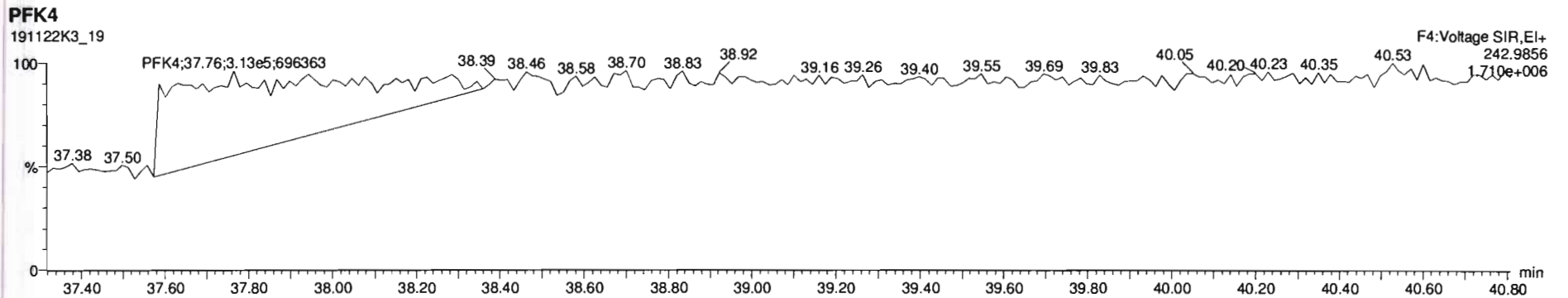
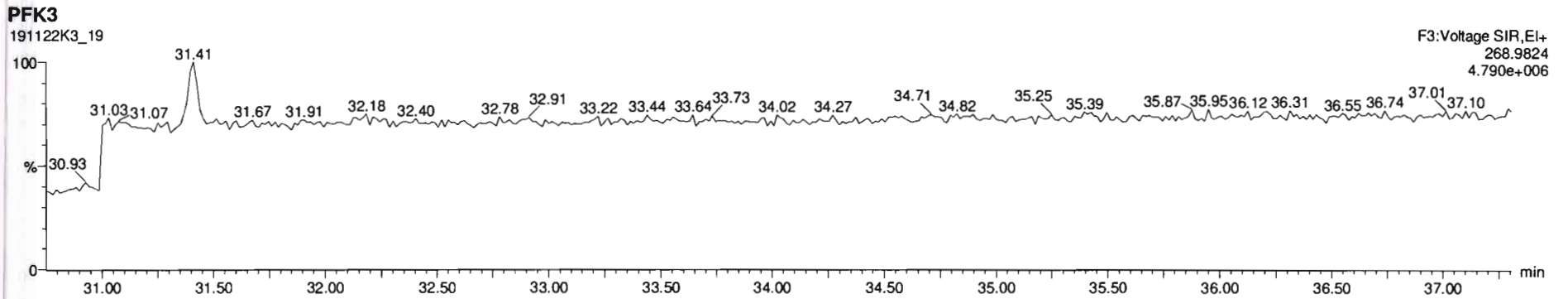
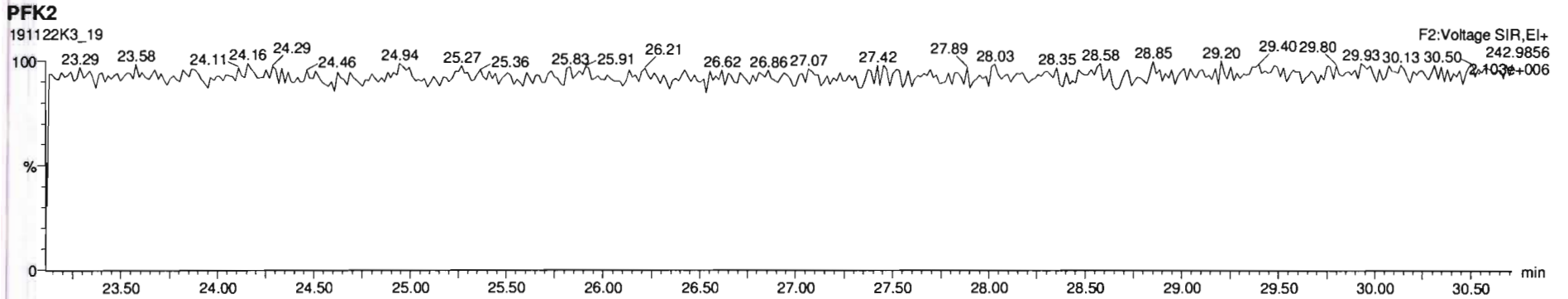


F4:Voltage SIR,EI+
339.9180
3.601e+006

Dataset: Untitled

Last Altered: Monday, November 25, 2019 11:01:53 Pacific Standard Time
Printed: Monday, November 25, 2019 11:23:53 Pacific Standard Time

Name: 191122K3_19, Date: 23-Nov-2019, Time: 06:51:35, ID: 1904021-06 PDI-144RAB-10-20-191113 1, Description: PDI-144RAB-10-20-191113



Dataset: U:\VG11.PRO\Results\191122K3\191122K3-20.qld

Last Altered: Tuesday, November 26, 2019 10:19:47 Pacific Standard Time

Printed: Tuesday, November 26, 2019 10:21:32 Pacific Standard Time

GRB 11/26/19

CT 02/04/2020

Method: U:\VG11.PRO\MethDB\1699rrt-11-21-19.mdb 21 Nov 2019 11:39:32

Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-11-22-19-LIMITEDB.cdb 23 Nov 2019 13:11:31

Name: 191122K3_20, Date: 23-Nov-2019, Time: 07:40:46, ID: 1904021-07 PDI-144RAB-20-29-191113 1, Description: PDI-144RAB-20-29-191113

	# Name	Resp	IS Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	RRT Fail	Conc.	%Rec	DL	EMPC
1	4 Lindane (gamma-BHC)		2.05e5		NO	0.744	1.075	✓ 26.65			1.001	YES			4.28	
2	9 Aldrin	8.43e2	1.41e5	1.11	YES	1.02	1.075	30.97	30.99	1.001	1.001	NO	5.45		3.37	4.71
3	10 Oxychlordane		3.62e4		NO	0.992	1.075	33.58			1.001	YES			11.5	
4	13 trans-Chlordane (gam...	1.94e3	3.50e4	1.92	NO	1.08	1.075	35.28	35.29	1.001	1.001	NO	47.7		9.40	47.7
5	14 trans-Nonachlor	6.73e2	3.82e4	1.25	NO	1.00	1.075	35.47	35.47	1.000	1.001	NO	16.3		9.76	16.3
6	15 cis-Chlordane	1.08e3	3.82e4	1.26	NO	0.981	1.075	35.96	35.95	1.014	1.014	NO	26.8		9.97	26.8
7	18 2,4'-DDE	3.89e3	9.52e5	1.15	YES	0.854	1.075	35.94	35.95	1.000	1.000	NO	4.45		1.88	3.91
8	19 4,4'-DDE	2.87e4	6.99e5	1.40	NO	0.873	1.075	37.03	37.03	1.000	1.000	NO	43.7		2.08	43.7
9	20 Dieldrin	7.33e3	9.23e4	1.56	NO	0.957	1.075	37.52	37.53	1.001	1.000	NO	77.2		6.44	77.2
10	22 cis-Nonachlor		4.89e4		NO	0.956	1.075	39.22			1.000	YES			12.2	

Dataset: U:\VG11.PRO\Results\191122K3\191122K3-20.qld

Last Altered: Tuesday, November 26, 2019 10:19:47 Pacific Standard Time

Printed: Tuesday, November 26, 2019 10:21:41 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1699rrt-11-21-19.mdb 21 Nov 2019 11:39:32

Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-11-22-19-LIMITEDB.cdb 23 Nov 2019 13:11:31

Name: 191122K3_20, Date: 23-Nov-2019, Time: 07:40:46, ID: 1904021-07 PDI-144RAB-20-29-191113 1, Description: PDI-144RAB-20-29-191113

	# Name	Resp	IS Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	RRT Fail	Conc.	%Rec	DL	EMPC
1	24 2,4'-DDD	5.00e4	9.22e5	1.50	NO	0.915	1.075	38.15	38.17	1.000	1.000	NO	55.1		2.41	55.1
2	25 2,4'-DDT	4.58e4	5.91e5	1.56	NO	0.921	1.075	39.30	39.29	1.000	1.000	NO	78.3		3.93	78.3
3	26 4,4'-DDD	1.56e5	8.08e5	1.60	NO	1.00	1.075	39.43	39.43	1.000	1.000	NO	179		2.56	179
4	27 4,4'-DDT	2.58e5	5.11e5	1.59	NO	0.986	1.075	40.50	40.50	1.000	1.000	NO	476		4.17	476
5	36 13C6-Lindane (gamma)	2.05e5	1.36e6	0.79	NO	0.189	1.075	26.63	26.62	1.019	1.020	NO	738	79.3	4.10	
6	40 13C12-Aldrin	1.41e5	1.36e6	1.62	NO	0.122	1.075	30.93	30.94	1.185	1.184	NO	789	84.9	3.53	
7	41 13C10-Oxychlorane	3.62e4	1.36e6	1.59	NO	0.0283	1.075	33.53	33.56	1.285	1.284	NO	873	93.8	15.2	
8	43 13C10-trans-Chlordan...	3.50e4	1.36e6	1.59	NO	0.0292	1.075	35.23	35.26	1.350	1.349	NO	818	88.0	14.7	
9	44 13C10-trans-Nonachlor	3.82e4	1.36e6	1.66	NO	0.0333	1.075	35.42	35.45	1.357	1.356	NO	782	84.0	12.9	

Dataset: U:\VG11.PRO\Results\191122K3\191122K3-20.qld

Last Altered: Tuesday, November 26, 2019 10:19:47 Pacific Standard Time

Printed: Tuesday, November 26, 2019 10:21:47 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1699rrt-11-21-19.mdb 21 Nov 2019 11:39:32

Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-11-22-19-LIMITEDB.cdb 23 Nov 2019 13:11:31

Name: 191122K3_20, Date: 23-Nov-2019, Time: 07:40:46, ID: 1904021-07 PDI-144RAB-20-29-191113 1, Description: PDI-144RAB-20-29-191113

	# Name	Resp	IS Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	RRT Fail	Conc.	%Rec	DL	EMPC
1	46 13C12-2,4'-DDE	9.52e5	1.36e6	1.60	NO	0.763	1.075	35.94	35.93	0.996	0.996	NO	851	91.4	3.72	
2	47 13C12-4,4'-DDE	6.99e5	1.36e6	1.61	NO	0.552	1.075	37.00	37.01	1.026	1.026	NO	864	92.8	5.14	
3	48 13C12-Dieldrin	9.23e4	1.36e6	1.53	NO	0.0749	1.075	37.50	37.50	1.039	1.039	NO	840	90.3	7.45	
4	50 13C10-cis-Nonachlor	4.89e4	1.36e6	1.66	NO	0.0389	1.075	39.19	39.20	1.087	1.086	NO	856	92.0	14.3	
5	52 13C12-2,4'-DDD	9.22e5	1.36e6	1.60	NO	0.588	1.075	38.10	38.15	1.461	1.459	NO	1070	115	5.54	
6	53 13C12-2,4'-DDT	5.91e5	1.36e6	1.62	NO	0.370	1.075	39.23	39.28	1.504	1.502	NO	1090	117	8.81	
7	54 13C12-4,4'-DDD	8.08e5	1.36e6	1.59	NO	0.473	1.075	39.35	39.41	1.509	1.507	NO	1160	125	6.89	
8	55 13C12-4,4'-DDT	5.11e5	1.36e6	1.59	NO	0.280	1.075	40.41	40.48	1.550	1.547	NO	1240	134	11.6	
9	62 13C-PCB-15	1.36e6	1.36e6	1.59	NO	1.00	1.075	26.18	26.12	1.000	1.000	NO	930	100	0.824	

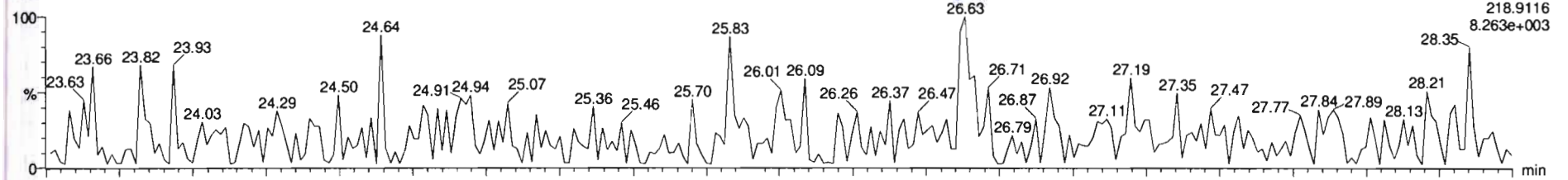
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Printed: Monday, November 25, 2019 11:23:53 Pacific Standard Time

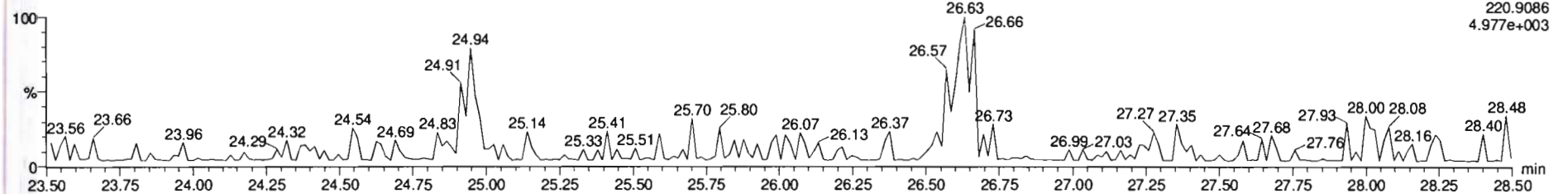
Name: 191122K3_20, Date: 23-Nov-2019, Time: 07:40:46, ID: 1904021-07 PDI-144RAB-20-29-191113 1, Description: PDI-144RAB-20-29-191113

Lindane (gamma-BHC)

191122K3_20

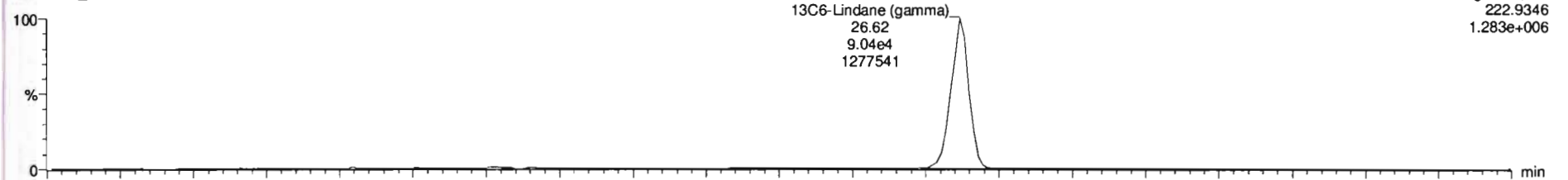


191122K3_20

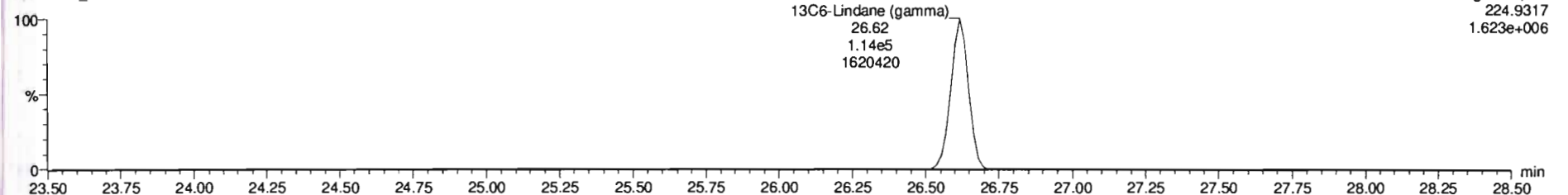


¹³C6-Lindane (gamma)

191122K3_20



191122K3_20

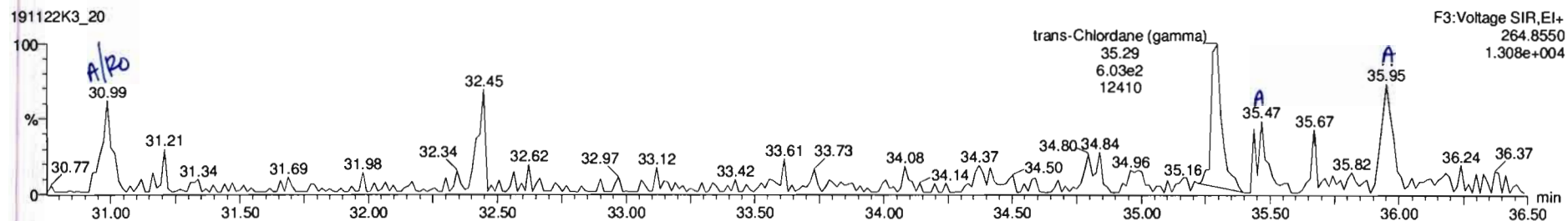
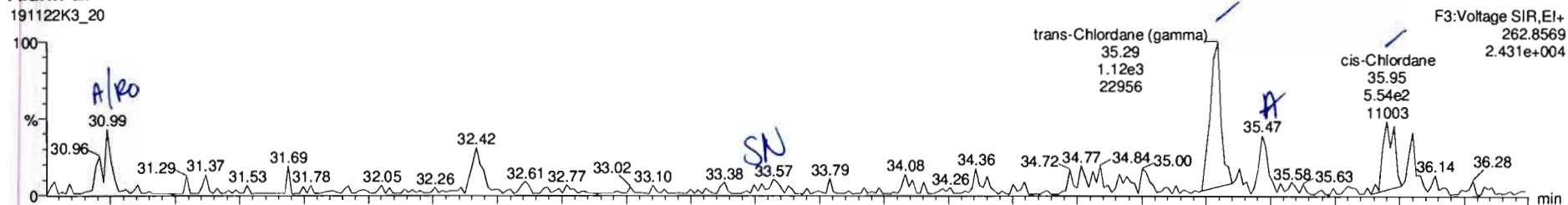


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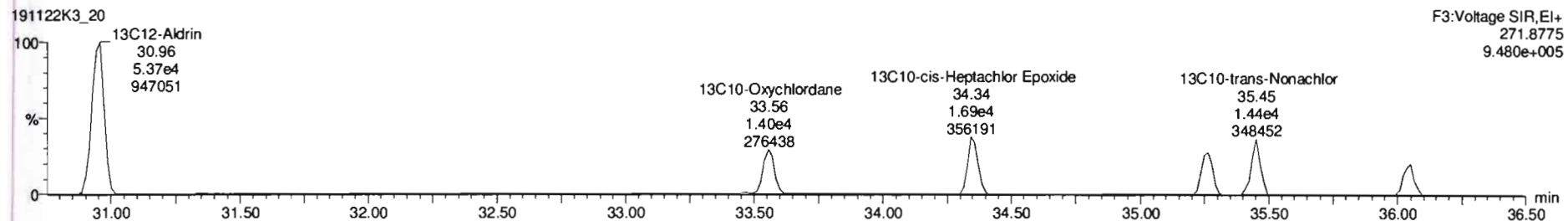
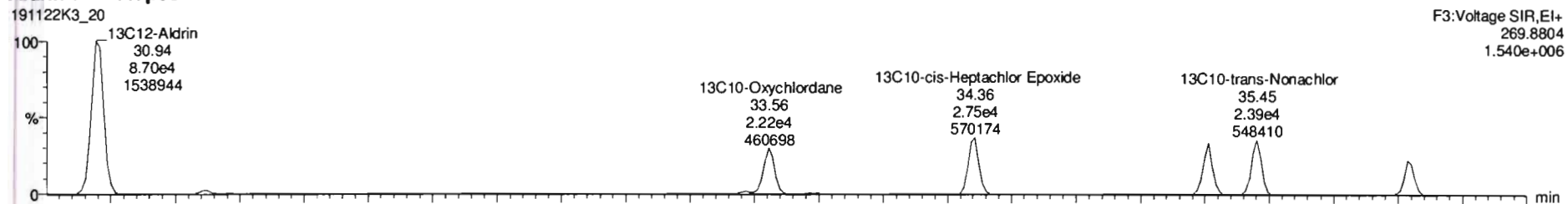
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Name: 191122K3_20, Date: 23-Nov-2019, Time: 07:40:46, ID: 1904021-07 PDI-144RAB-20-29-191113 1, Description: PDI-144RAB-20-29-191113

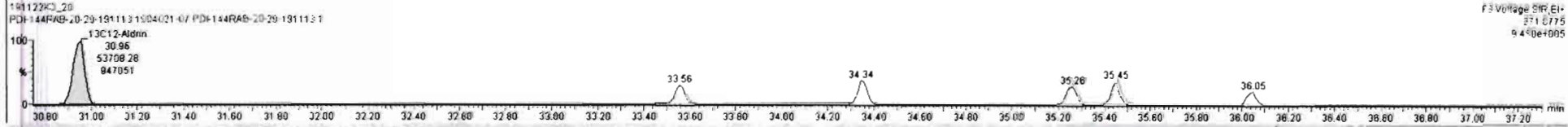
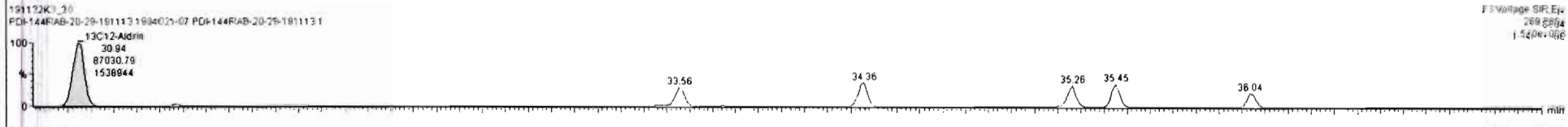
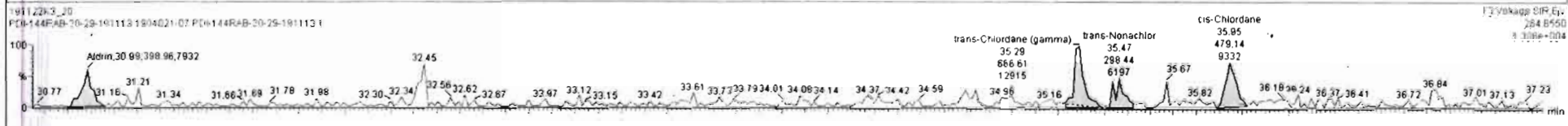
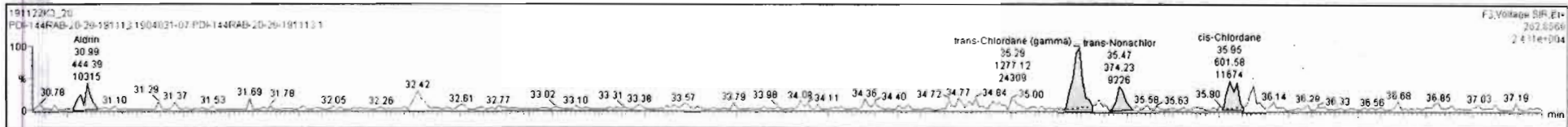
Aldrin-EI



Aldrin-EI-isotopes



#	Name	Resp	IS Resp	IS#	RA	nly	RRF	wfnd	Pred.RT	RT	RRT	Pred.RRT	Check.RRT	Conc	%Rec	DL	EMPC	
59	13C12-Endrin Aldehyde	3.87e5	1.36e6	62	0.50	NO	0.0345	1.075	41.04	41.05	1.138	1.138	NO	7640	82.1	45.5		
60	13C12-Endrin Ketone	2.90e5	1.36e6	62	0.48	NO	0.0222	1.075	44.20	44.20	1.225	1.225	NO	8920	86.9	70.7		
61	13C-PCB-52	3.73e5	3.73e5	61	0.76	NO	1.0000	1.075	31.45	31.41	1.000	1.000	NO	930	100	2.36		
62	13C-PCB-15	1.36e6	1.36e6	62	1.59	NO	1.0000	1.075	26.18	26.12	1.000	1.000	NO	930	100	0.624		
63	13C-PCB-80	5.67e5	5.67e5	63	0.74	NO	1.0000	1.075	36.12	36.08	1.000	1.000	NO	930	100	1.20		
64	13C-PCB-123	3.96e5	3.96e5	64	1.35	NO	1.0000	1.075	38.37	38.33	1.000	1.000	NO	930	100	1.12		
65	13C-PCB-138	2.32e5	2.32e5	65	1.27	NO	1.0000	1.075	40.61	40.57	1.000	1.000	NO	930	100	1.23		
66	13C-Chlordane	5.09e4	5.09e4	66	1.53	NO	1.0000	1.075	25.01	24.94	1.000	1.000	NO	930	100	5.80		
67	13C-PARLAR 39	8.43e4	8.43e4	67	0.79	NO	1.0000	1.075	40.58	40.54	1.000	1.000	NO	930	100	20.4		
68	dB-2,4'-DDE	1.11e3	5.09e4	66		NO		1.075	35.97	35.78	0.991	0.987	NO					
69	dB-4,4'-DDE		5.09e4	66		NO		1.075	36.94				YES					
70	Aldrin-B																	
71	dB-4,4'-DDD	1.32e3	5.09e4	66		NO		1.075	39.47	39.47	1.084	1.084	NO					
72	dB-4,4'-DDT		5.09e4	66		NO		1.075	40.59				YES					
73	EMC Totals																	
74	hpb-Cl-B							1.075	0.00			0.000	NO					
75	DDMU-DDE																	

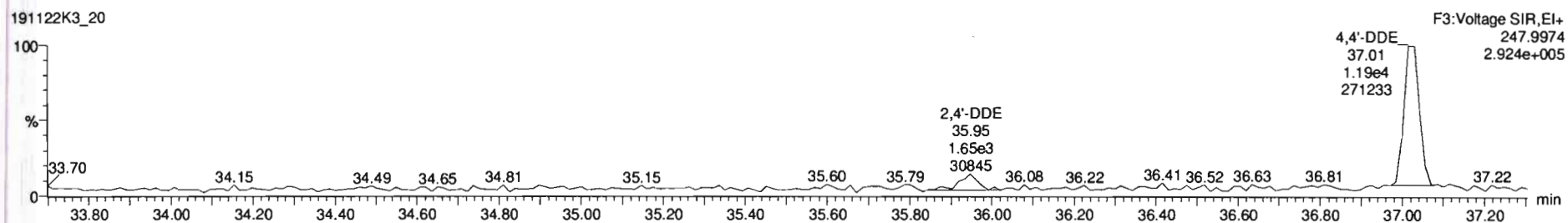
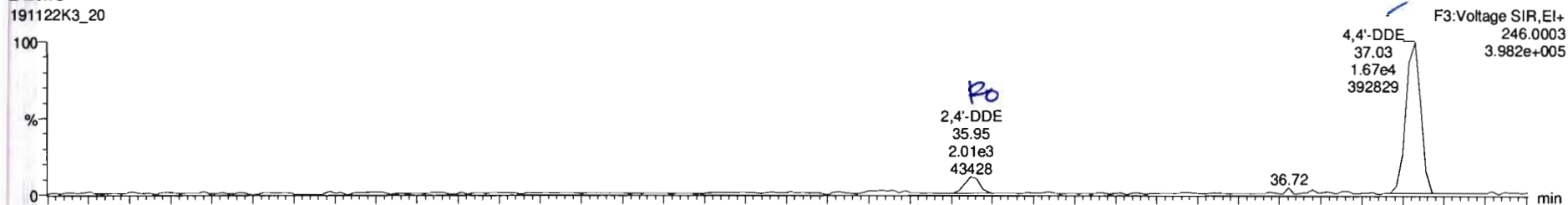


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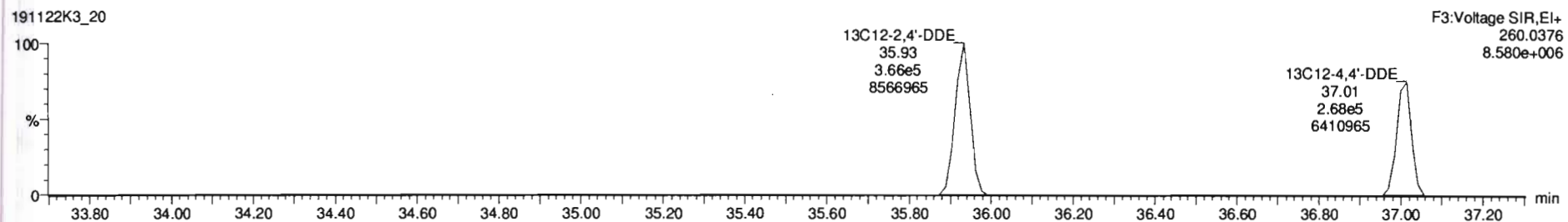
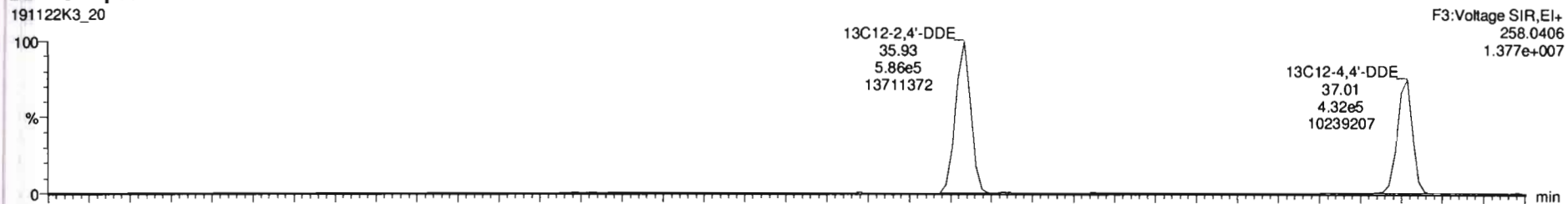
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Name: 191122K3_20, Date: 23-Nov-2019, Time: 07:40:46, ID: 1904021-07 PDI-144RAB-20-29-191113 1, Description: PDI-144RAB-20-29-191113

DDMU-DDE

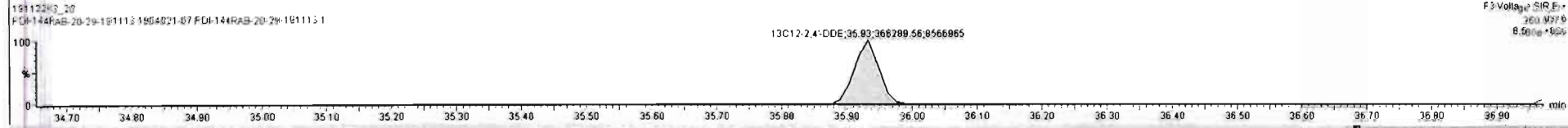
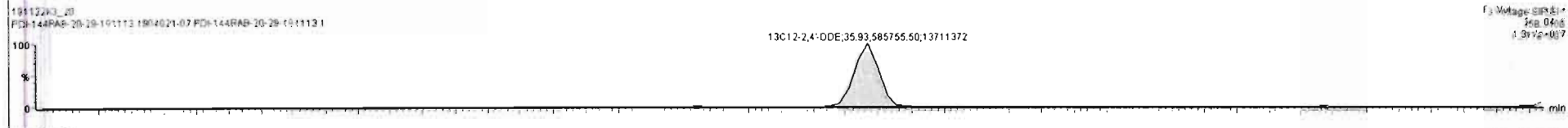
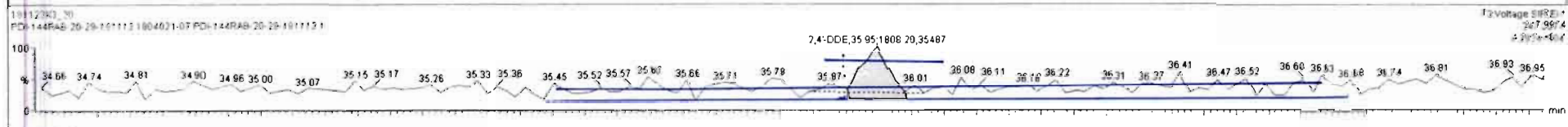
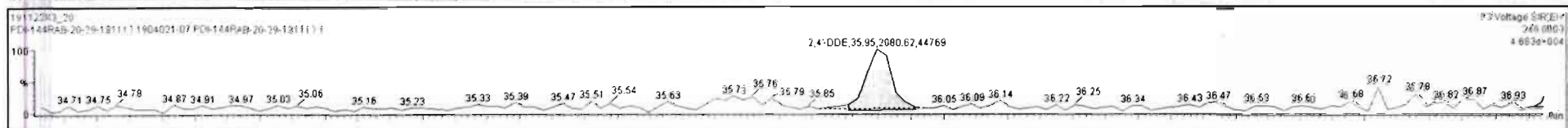


DDE-isotopes



191122K3_20 - 1904021-07 FDI-144RAB-20-20-191113 1 - FDI-144RAB-20-20-191113

#	Name	Resp	IS Resp	IS#	RA	nly	RRF	wfvol	Prod RT	RT	RRT	Prod RRT	Check RRT	Conc	%Rec	DL	EMPC
59	13C12-Endrin Aldehyde	3.87e5	1.36e6	82	0.50	NO	0.0345	1.075	41.04	41.05	1.138	1.138	NO	7640	82.1	45.5	
60	13C12-Endrin Ketone	2.90e5	1.36e6	82	0.48	NO	0.0222	1.075	44.20	44.20	1.225	1.225	NO	8920	95.9	70.7	
61	13C-PCB-52	3.73e5	3.73e5	81	0.76	NO	1.0000	1.075	31.45	31.41	1.000	1.000	NO	930	100	2.36	
62	13C-PCB-15	1.36e6	1.36e6	82	1.59	NO	1.0000	1.075	26.18	26.12	1.000	1.000	NO	930	100	0.824	
63	13C-PCB-60	5.67e5	5.67e5	83	0.74	NO	1.0000	1.075	36.12	36.06	1.000	1.000	NO	930	100	1.20	
64	13C-PCB-123	3.96e5	3.96e5	84	1.35	NO	1.0000	1.075	36.37	36.33	1.000	1.000	NO	930	100	1.12	
65	13C-PCB-138	2.32e5	2.32e5	85	1.27	NO	1.0000	1.075	40.61	40.57	1.000	1.000	NO	930	100	1.23	
66	13C-Chlordane	5.09e4	5.09e4	66	1.53	NO	1.0000	1.075	25.01	24.94	1.000	1.000	NO	930	100	6.80	
67	13C-PARLAR 39	8.43e4	8.43e4	67	0.79	NO	1.0000	1.075	40.58	40.54	1.000	1.000	NO	930	100	20.4	
68	d8-2,4'-DDE	1.11e3	5.09e4	66		NO		1.075	35.97	35.76	0.991	0.997	NO				
69	d8-4,4'-DDE	5.09e4	5.09e4	66		NO		1.075	36.94			1.024	YES				
70	Alidin-EI																
71	d8-4,4'-DDD	1.32e3	5.09e4	66		NO		1.075	39.47	39.47	1.094	1.094	NO				
72	d8-4,4'-DDT	5.09e4	5.09e4	66		NO		1.075	40.59			1.125	YES				
73	BHC Totals																
74	HeCh-EI							1.075	0.00			0.000	NO				
75	DDMU-DDE																



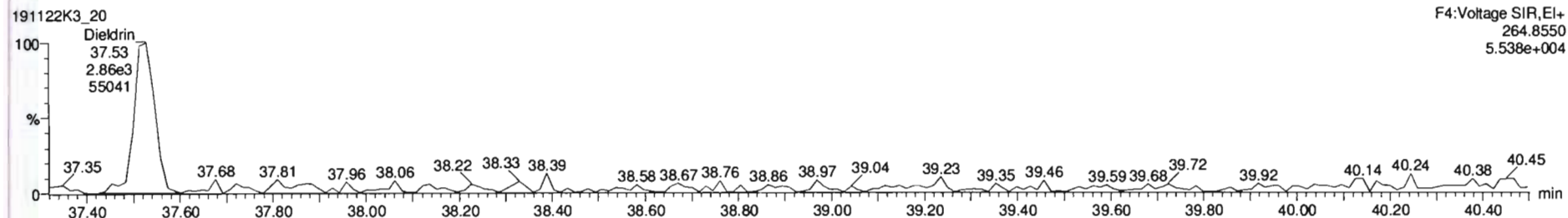
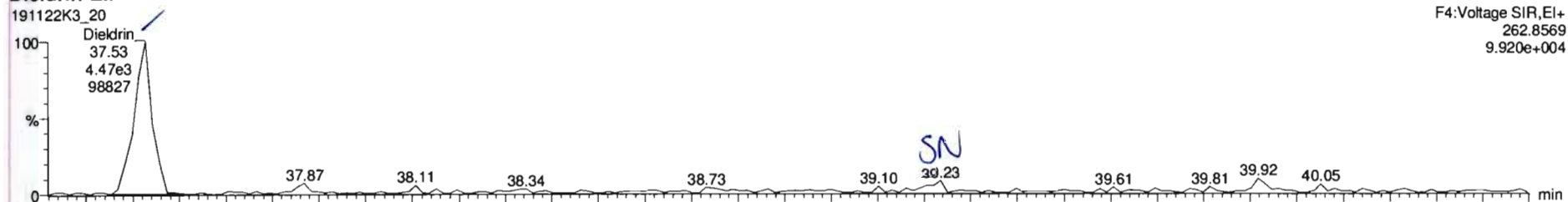
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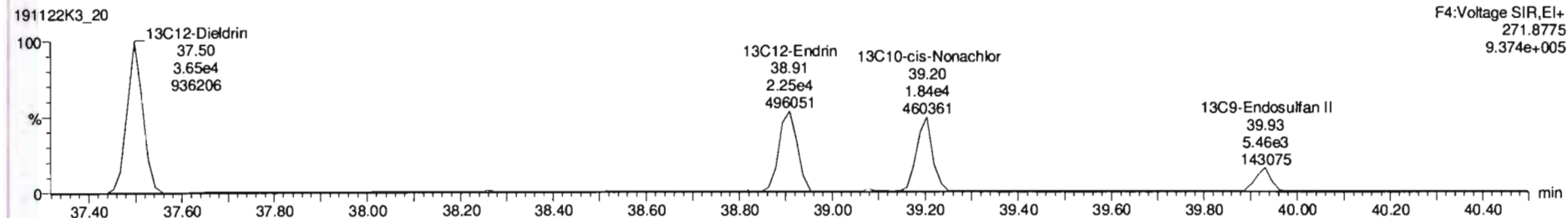
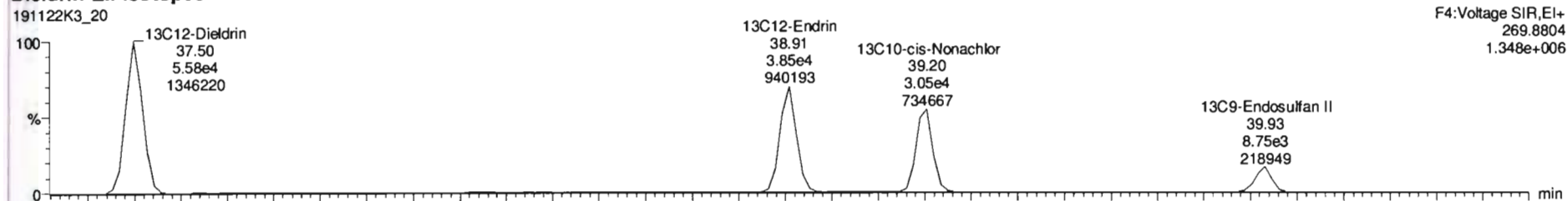
Printed: Monday, November 25, 2019 11:23:53 Pacific Standard Time

Name: 191122K3_20, Date: 23-Nov-2019, Time: 07:40:46, ID: 1904021-07 PDI-144RAB-20-29-191113 1, Description: PDI-144RAB-20-29-191113

Dieldrin-EII



Dieldrin-EII-isotopes



Dataset: Untitled

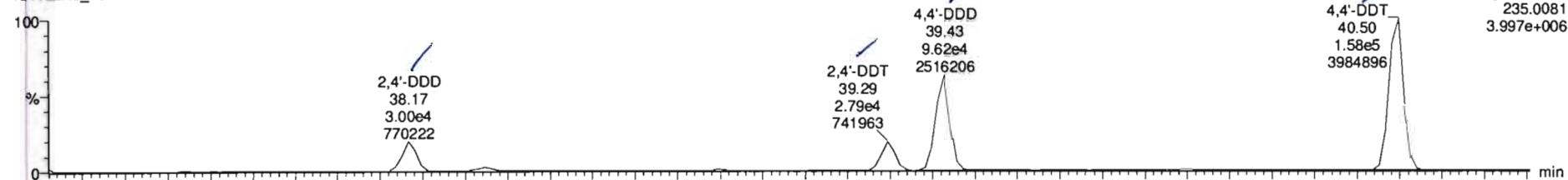
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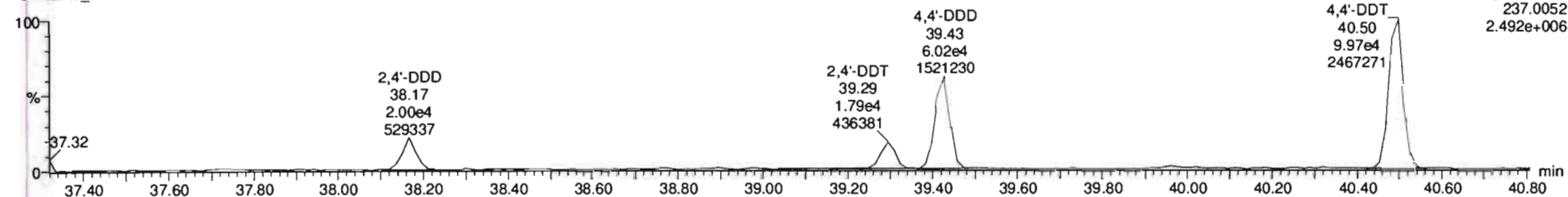
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DDD-DDT

191122K3_20

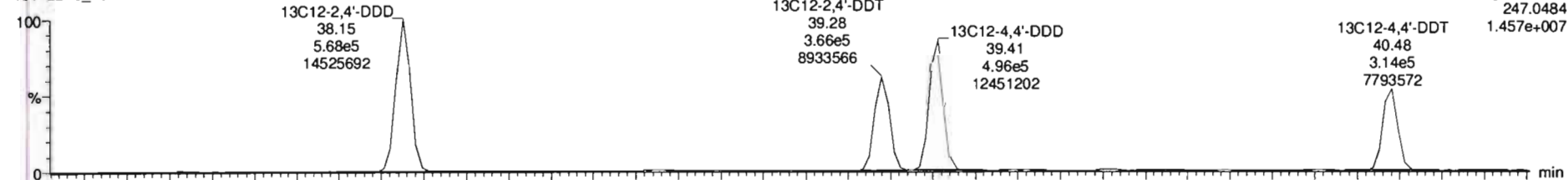


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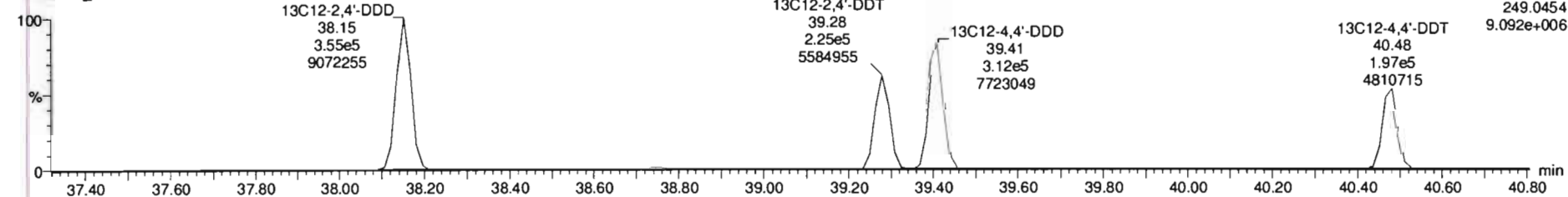


DDD-DDT-isotopes

191122K3_20



191122K3_20



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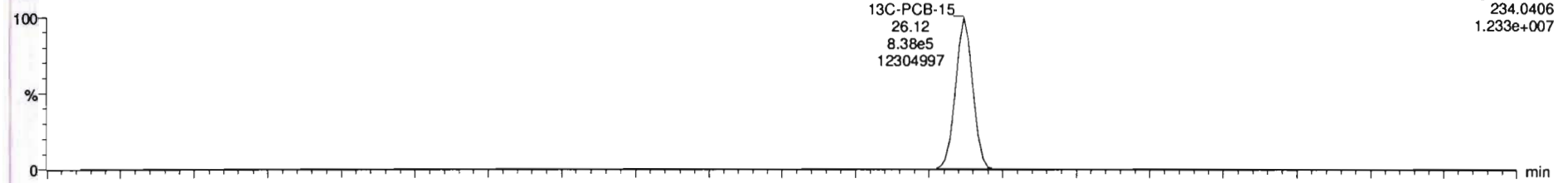
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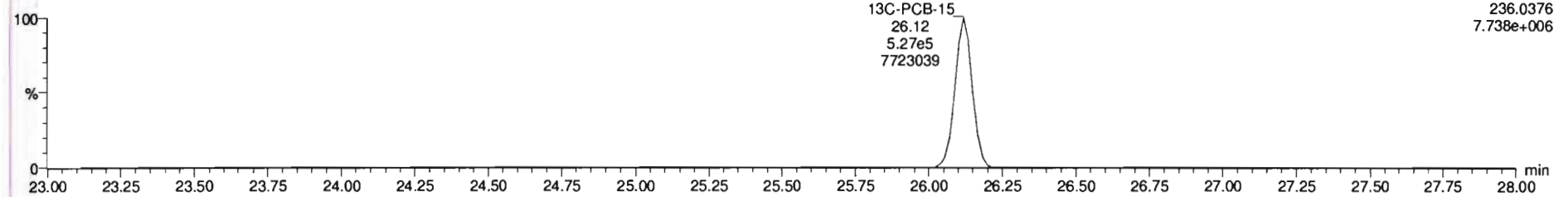
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13C-PCB-15

191122K3_20

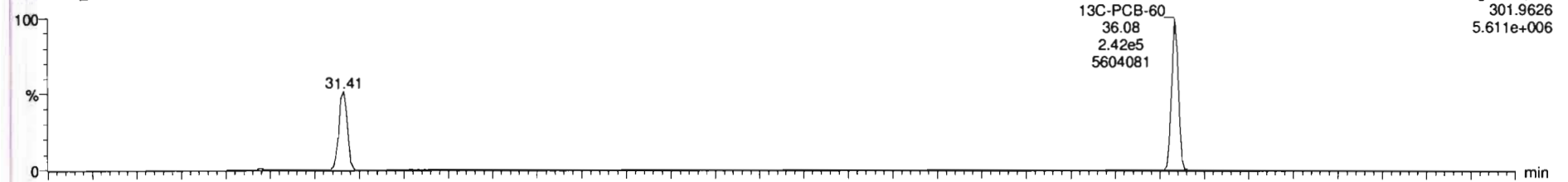


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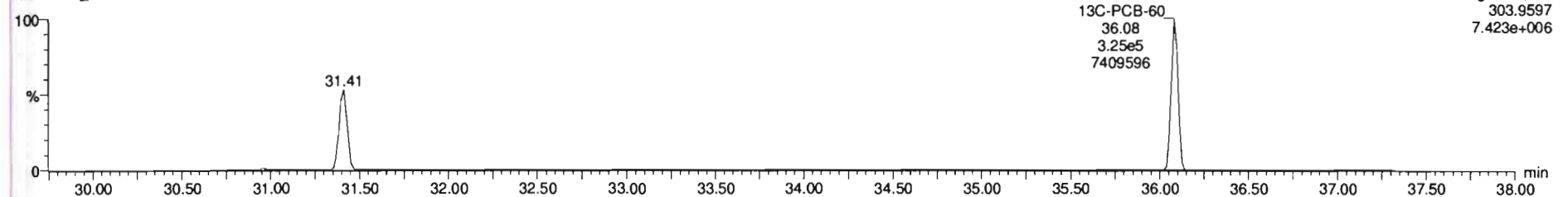


13C-PCB-60

191122K3_20



191122K3_20



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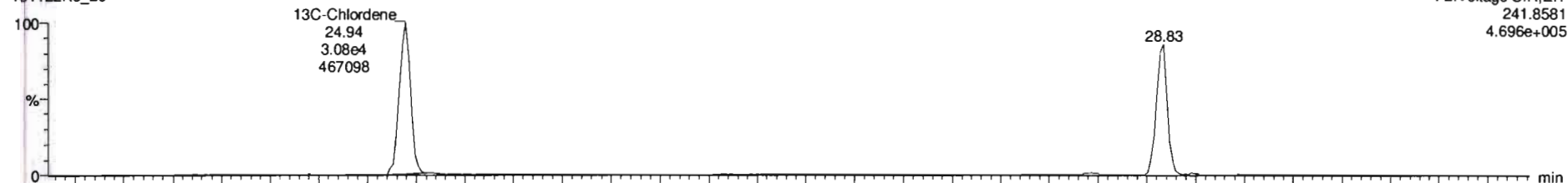
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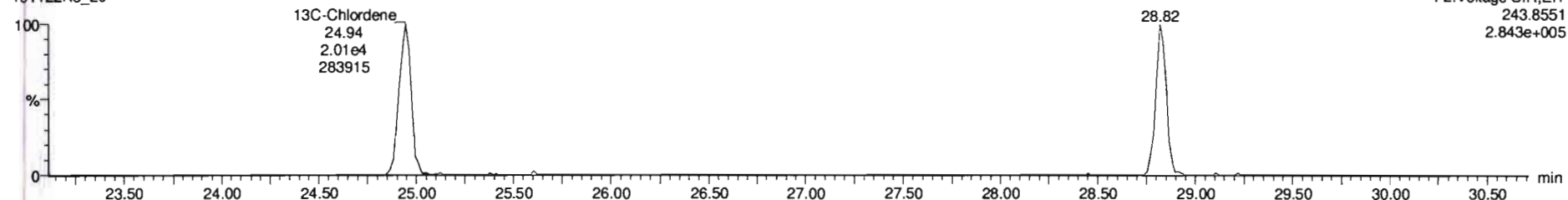
13C-Chlordene

191122K3_20



F2:Voltage SIR,EI+
241.8581
4.696e+005

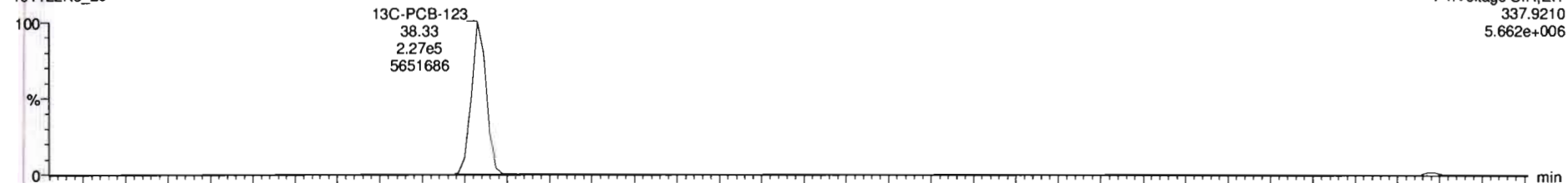
191122K3_20



F2:Voltage SIR,EI+
243.8551
2.843e+005

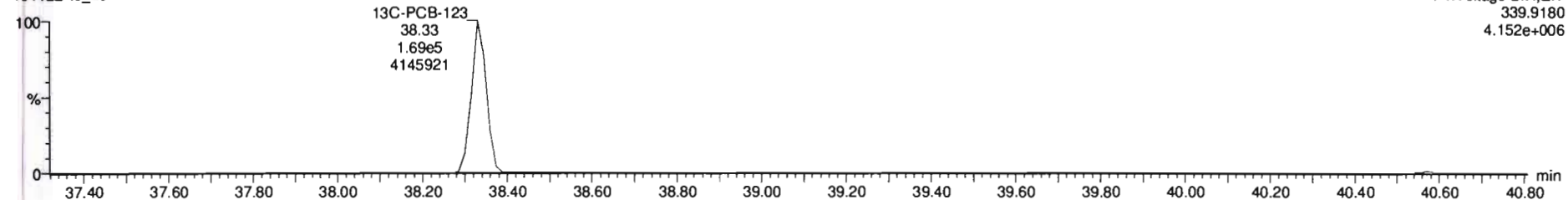
13C-PCB-123

191122K3_20



F4:Voltage SIR,EI+
337.9210
5.662e+006

191122K3_20



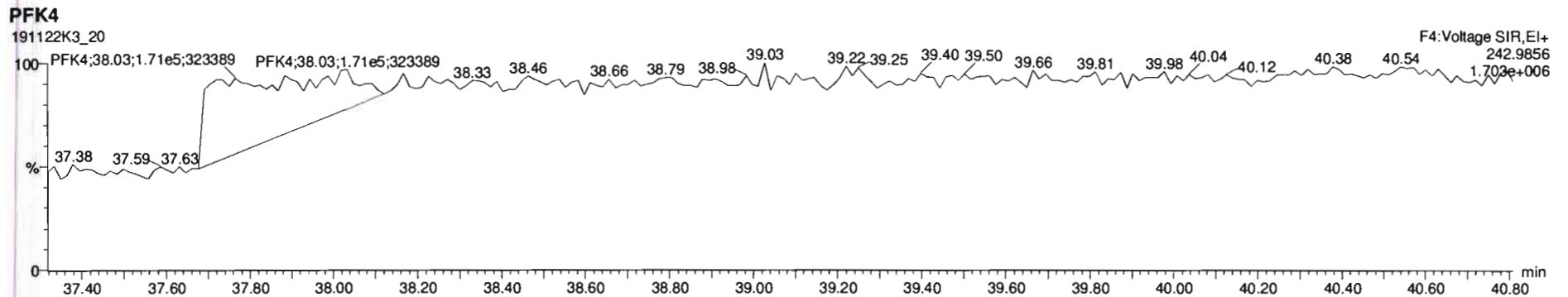
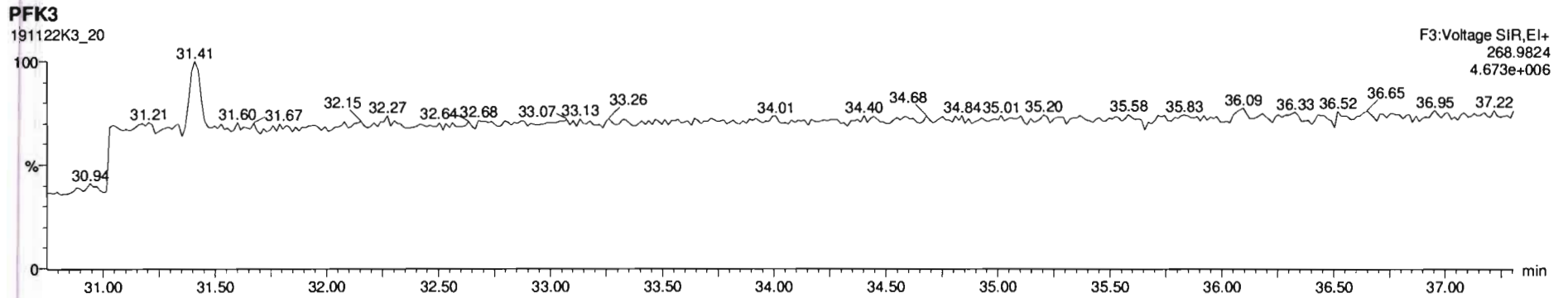
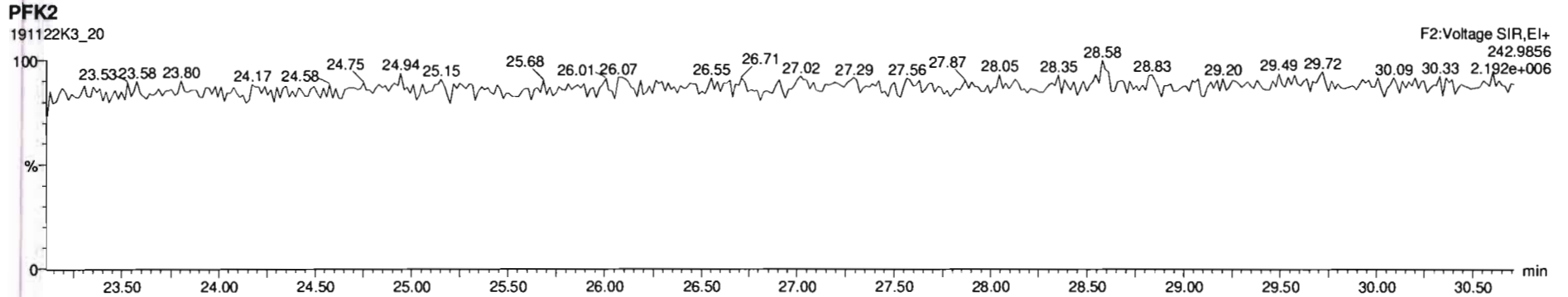
F4:Voltage SIR,EI+
339.9180
4.152e+006

Dataset: Untitled

Last Altered: Monday, November 25, 2019 11:01:53 Pacific Standard Time

Printed: Monday, November 25, 2019 11:23:53 Pacific Standard Time

Name: 191122K3_20, Date: 23-Nov-2019, Time: 07:40:46, ID: 1904021-07 PDI-144RAB-20-29-191113 1, Description: PDI-144RAB-20-29-191113



CONTINUING CALIBRATION

PKMS CALIBRATION STANDARDS REVIEW CHECKLIST

Begin Calibration ID: ST191204112-1

Reviewed By: EL 12/6/19

Initials & Date

End Calibration ID: NA

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

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

Integrated peaks display correctly? NA

GC Break <20% NA

8280 CS1 End Standard:

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

Comments:

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.:

CCAL ID: ST191204D2-1

Contract No.: SAS No.:

Initial Calibration Date: 10-9-19

Instrument ID: VG-7

GC Column ID: ZB-5MS

VER Data Filename: 191204D2 S#1 Analysis Date: 5-DEC-19 Time: 07:34:10

NATIVE ANALYTES	M/Z'S	ION	QC	Pass	CONC. FOUND	CONC.
	FORMING RATIO (1)	ABUND. RATIO	LIMITS (2)			RANGE (3)
2,3,7,8-TCDD	M/M+2	0.79	0.65-0.89	y	10.3	7.8 - 12.9 8.2 - 12.3 (4)
1,2,3,7,8-PeCDD	M/M+2	0.65	0.54-0.72	y	50.6	39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.24	1.05-1.43	y	48.1	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	49.3	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.26	1.05-1.43	y	49.5	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.03	0.88-1.20	y	48.4	43.0 - 58.0
OCDD	M+2/M+4	0.87	0.76-1.02	y	99.3	79.0 - 126.0
2,3,7,8-TCDF	M/M+2	0.76	0.65-0.89	y	9.48	8.4 - 12.0 8.6 - 11.6 (4)
1,2,3,7,8-PeCDF	M+2/M+4	1.54	1.32-1.78	y	48.7	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.58	1.32-1.78	y	49.1	41.0 - 61.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.22	1.05-1.43	y	45.8	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.22	1.05-1.43	y	46.0	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.22	1.05-1.43	y	47.5	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.25	1.05-1.43	y	46.9	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	0.99	0.88-1.20	y	45.7	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.01	0.88-1.20	y	43.7	43.0 - 58.0
OCDF	M+2/M+4	0.88	0.76-1.02	y	92.5	63.0 - 159.0

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(3) Contract-required concentration range as specified in Table 6, Method 1613.

(4) Contract-required concentration range as specified in Table 6a, Method 1613, for tetras only.

Analyst: DB

Date: 12/5/19

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 10-9-19

Instrument ID: VG-7

GC Column ID: ZB-5MS

VER Data Filename: 191204D2 S#1 Analysis Date: 5-DEC-19 Time: 07:34:10

Labeled Compounds	M/Z'S	ION	QC	Pass	CONC. FOUND	CONC. RANGE (ng/mL)
	FORMING RATIO (1)	ABUND. RATIO	LIMITS (2)			
13C-2,3,7,8-TCDD	M/M+2	0.79	0.65-0.89	y	104	82.0 - 121.0
13C-1,2,3,7,8-PeCDD	M/M+2	0.62	0.54-0.72	y	102	62.0 - 160.0
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.28	1.05-1.43	y	108	85.0 - 117.0
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.29	1.05-1.43	y	92.5	85.0 - 118.0
13C-1,2,3,7,8,9-HxCDD	M+2/M+4	1.24	1.05-1.43	y	98.4	85.0 - 118.0
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.05	0.88-1.20	y	100	72.0 - 138.0
13C-OCDD	M/M+2	0.89	0.76-1.02	y	252	96.0 - 415.0
13C-2,3,7,8-TCDF	M+2/M+4	0.77	0.65-0.89	y	100	71.0 - 140.0
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.60	1.32-1.78	y	111	76.0 - 130.0
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.60	1.32-1.78	y	109	77.0 - 130.0
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	113	76.0 - 131.0
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	98.5	70.0 - 143.0
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	99.8	73.0 - 137.0
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.51	0.43-0.59	y	103	74.0 - 135.0
13C-1,2,3,4,6,7,8-HpCDF	M+2/M+4	0.44	0.37-0.51	y	97.5	78.0 - 129.0
13C-1,2,3,4,7,8,9-HpCDF	M+2/M+4	0.43	0.37-0.51	y	107	77.0 - 129.0
13C-OCDF	M+2/M+4	0.88	0.76-1.02	y	257	96.0 - 415.0
CLEANUP STANDARD (3)						
37Cl-2,3,7,8-TCDD					9.34	7.9 - 12.7

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified

(3) No ion abundance ratio; report concentration found.

Analyst: DB

Date: 12/5/19

EPA METHOD 8290

PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.: CCAL ID: ST191204D2-1

Contract No.: SAS No.:

Initial Calibration Date: 10-9-19

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 191204D2 S#1 Analysis Date: 5-DEC-19 Time: 07:34:10

NATIVE ANALYTES	M/Z'S	ION	QC	Pass	CONC. FOUND	CONC. RANGE (ng/mL)
	FORMING RATIO	ABUND. RATIO	LIMITS			
2,3,7,8-TCDD	M/M+2	0.79	0.65-0.89	y	10.3	8.00 - 12.0
1,2,3,7,8-PeCDD	M/M+2	0.65	0.54-0.72	y	50.6	40.0 - 60.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.24	1.05-1.43	y	48.1	40.0 - 60.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	49.3	40.0 - 60.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.26	1.05-1.43	y	49.5	40.0 - 60.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.03	0.88-1.20	y	48.4	40.0 - 60.0
OCDD	M+2/M+4	0.87	0.76-1.02	y	99.3	80.0 - 120
2,3,7,8-TCDF	M/M+2	0.76	0.65-0.89	y	9.48	8.00 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.54	1.32-1.78	y	48.7	40.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.58	1.32-1.78	y	49.1	40.0 - 60.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.22	1.05-1.43	y	45.8	40.0 - 60.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.22	1.05-1.43	y	46.0	40.0 - 60.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.22	1.05-1.43	y	47.5	40.0 - 60.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.25	1.05-1.43	y	46.9	40.0 - 60.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	0.99	0.88-1.20	y	45.7	40.0 - 60.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.01	0.88-1.20	y	43.7	40.0 - 60.0
OCDF	M+2/M+4	0.88	0.76-1.02	y	92.5	80.0 - 120

Analyst: DB

Date: 12/5/19

EPA METHOD 8290

PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 10-9-19

Instrument ID: VG-7

GC Column ID: ZB-5MS

VER Data Filename: 191204D2 S#1 Analysis Date: 5-DEC-19 Time: 07:34:10

LABELED COMPOUNDS	M/Z'S	ION	QC	Pass	CONC.	CONC.
	FORMING	ABUND.	LIMITS		FOUND	RANGE
	RATIO	RATIO				(ng/mL)
13C-2,3,7,8-TCDD	M/M+2	0.79	0.65-0.89	y	104	70.0 - 130
13C-1,2,3,7,8-PeCDD	M/M+2	0.62	0.54-0.72	y	102	70.0 - 130
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.28	1.05-1.43	y	108	70.0 - 130
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.29	1.05-1.43	y	92.5	70.0 - 130
13C-1,2,3,7,8,9-HxCDD	M+2/M+4	1.24	1.05-1.43	y	98.4	70.0 - 130
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.05	0.88-1.20	y	100	70.0 - 130
13C-OCDD	M+2/M+4	0.89	0.76-1.02	y	252	140 - 260
13C-2,3,7,8-TCDF	M/M+2	0.77	0.65-0.89	y	100	70.0 - 130
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.60	1.32-1.78	y	111	70.0 - 130
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.60	1.32-1.78	y	109	70.0 - 130
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	113	70.0 - 130
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	98.5	70.0 - 130
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	99.8	70.0 - 130
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.51	0.43-0.59	y	103	70.0 - 130
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.44	0.37-0.51	y	97.5	70.0 - 130
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.43	0.37-0.51	y	107	70.0 - 130
13C-OCDF	M+2/M+4	0.88	0.76-1.02	y	257	140 - 260
CLEANUP STANDARD						
37Cl-2,3,7,8-TCDD					9.34	7.00 - 13.0

Analyst: DBDate: 12/5/19

FORM 5
PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Instrument ID: VG-7 Initial Calibration Date: 10-9-19

RT Window Data Filename: 191204D2 S#1 Analysis Date: 5-DEC-19 Time: 07:34:10

ZB-5MS IS Data Filename: 191204D2 S#1 Analysis Date: 5-DEC-19 Time: 07:34:10

DB_225 IS Data Filename: Analysis Date: Time:

ZB-5MS RT WINDOW DEFINING STANDARDS RESULTS

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	22:40	1,3,6,8-TCDF (F)	20:32
1,2,8,9-TCDD (L)	26:57	1,2,8,9-TCDF (L)	27:05
1,2,4,7,9-PeCDD (F)	28:33	1,3,4,6,8-PeCDF (F)	27:04
1,2,3,8,9-PeCDD (L)	30:58	1,2,3,8,9-PeCDF (L)	31:12
1,2,4,6,7,9-HxCDD (F)	32:23	1,2,3,4,6,8-HxCDF (F)	31:51
1,2,3,7,8,9-HxCDD (L)	34:18	1,2,3,7,8,9-HxCDF (L)	34:41
1,2,3,4,6,7,9-HpCDD (F)	36:54	1,2,3,4,6,7,8-HpCDF (F)	36:31
1,2,3,4,6,7,8-HpCDD (L)	37:46	1,2,3,4,7,8,9-HpCDF (L)	38:18

(F) = First eluting isomer (ZB-5MS); (L) = Last eluting isomer (ZB-5MS).

=====

ISOMER SPECIFICITY (IS) TEST STANDARD RESULTS

% VALLEY HEIGHT
BETWEEN
COMPARED PEAKS (1)

<25%

(1) To meet contract requirements, %Valley Height Between Compared Peaks shall not exceed 25% (section 15.4.2.2, Method 1613).

Analyst: DB

Date: 12/5/19

FORM 6A
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 10-9-19

Instrument ID: VG-7

GC Column ID: ZB-5MS

VER Data Filename: 191204D2 S#1 Analysis Date: 5-DEC-19 Time: 07:34:10

Compounds Using 13C-1234-TCDD as RT Internal Standard

NATIVE ANALYTES	RETENTION TIME	RRT	RRT
	REFERENCE		QC LIMITS (1)
2,3,7,8-TCDD	13C-2,3,7,8-TCDD	1.001	0.999-1.002
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD	1.001	0.999-1.002
2,3,7,8-TCDF	13C-2,3,7,8-TCDF	1.001	0.999-1.003
1,2,3,7,8-PeCDF	13C-1,2,3,7,8-PeCDF	1.000	0.999-1.002
2,3,4,7,8-PeCDF	13C-2,3,4,7,8-PeCDF	1.000	0.999-1.002

LABELED COMPOUNDS

13C-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.022	0.976-1.043
13C-1,2,3,7,8-PeCDD	13C-1,2,3,4-TCDD	1.200	1.000-1.567
13C-2,3,7,8-TCDF	13C-1,2,3,4-TCDD	0.991	0.923-1.103
13C-1,2,3,7,8-PeCDF	13C-1,2,3,4-TCDD	1.153	1.000-1.425
13C-2,3,4,7,8-PeCDF	13C-1,2,3,4-TCDD	1.189	1.011-1.526
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.023	0.989-1.052

Analyst: DB

Date: 12/5/19

FORM 6B
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 10-9-19

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 191204D2 S#1 Analysis Date: 5-DEC-19 Time: 07:34:10

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
1,2,3,4,7,8-HxCDF	13C-1,2,3,4,7,8-HxCDF	1.000	0.999-1.001
1,2,3,6,7,8-HxCDF	13C-1,2,3,6,7,8-HxCDF	1.001	0.997-1.005
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF	1.000	0.999-1.001
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF	1.001	0.999-1.001
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD	1.000	0.999-1.001
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.001	0.998-1.004
1,2,3,7,8,9-HxCDD	13C-1,2,3,7,8,9-HxCDD	1.000	0.998-1.004
1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,7,8-HpCDF	1.000	0.999-1.001
1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,7,8-HpCDD	1.000	0.999-1.001
1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,7,8,9-HpCDF	1.000	0.999-1.001
OCDD	13C-OCDD	1.000	0.999-1.001
OCDF	13C-OCDF	1.000	0.999-1.001

LABELED COMPOUNDS

13C-1,2,3,4,7,8-HxCDF	13C-1,2,3,4,6,9-HxCDF	0.988	0.975-1.001
13C-1,2,3,6,7,8-HxCDF	13C-1,2,3,4,6,9-HxCDF	0.991	0.979-1.005
13C-2,3,4,6,7,8-HxCDF	13C-1,2,3,4,6,9-HxCDF	1.009	1.001-1.020
13C-1,2,3,7,8,9-HxCDF	13C-1,2,3,4,6,9-HxCDF	1.037	1.002-1.072
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.014	1.002-1.026
13C-1,2,3,6,7,8-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.017	1.007-1.029
13C-1,2,3,7,8,9-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.026	1.014-1.038
13C-1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,9-HxCDF	1.092	1.069-1.111
13C-1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,6,9-HxCDF	1.146	1.098-1.192
13C-1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,9-HxCDF	1.130	1.117-1.141
13C-OCDD	13C-1,2,3,4,6,9-HxCDF	1.227	1.085-1.365
13C-OCDF	13C-1,2,3,4,6,9-HxCDF	1.234	1.091-1.371

Analyst: JB

Date: 12/5/19

Client ID: 1613 CS3 19C2204
Lab ID: ST191204D2-1

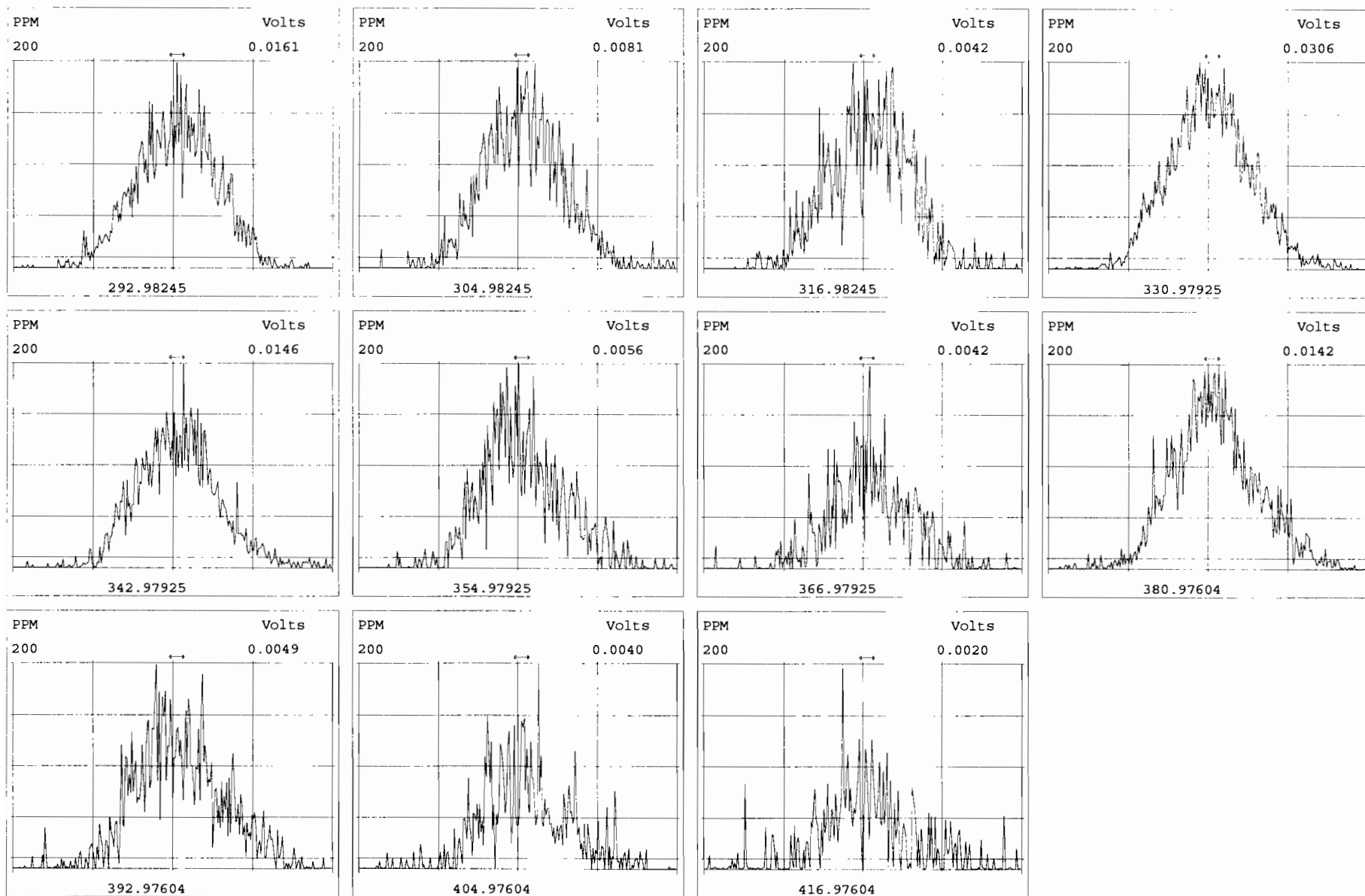
Filename: 191204D2 S:1 Acq: 5-DEC-19 07:34:10
GC Column ID: ZB-5MS ICal: 1613VG7-10-9-19 wt/vol: 1.000

ConCal: ST191204D2-1
EndCAL: NA

Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	7.22e+05	0.79 y	0.91	26:05	10.336		* 2.5		*	Total Tetra-Dioxins	74.0	75.1		*	*
1,2,3,7,8-PeCDD	2.81e+06	0.65 y	0.90	30:37	50.623		* 2.5		*	Total Penta-Dioxins	203	204		*	*
1,2,3,4,7,8-HxCDD	2.55e+06	1.24 y	1.10	33:54	48.073		* 2.5		*	Total Hexa-Dioxins	216	217		*	*
1,2,3,6,7,8-HxCDD	2.54e+06	1.25 y	0.94	34:01	49.253		* 2.5		*	Total Hepta-Dioxins	116	117		*	*
1,2,3,7,8,9-HxCDD	2.62e+06	1.26 y	0.96	34:18	49.513		* 2.5		*	Total Tetra-Furans	36.5	37.5		*	*
1,2,3,4,6,7,8-HpCDD	2.16e+06	1.03 y	0.98	37:46	48.413		* 2.5		*	Total Penta-Furans	212.60	213.66		*	*
OCDD	4.83e+06	0.87 y	0.96	41:01	99.336		* 2.5		*	Total Hexa-Furans	247	248		*	*
										Total Hepta-Furans	90.3	91.4		*	*
2,3,7,8-TCDF	9.78e+05	0.76 y	0.95	25:18	9.4763		* 2.5		*						
1,2,3,7,8-PeCDF	4.64e+06	1.54 y	0.96	29:25	48.720		* 2.5		*						
2,3,4,7,8-PeCDF	4.82e+06	1.58 y	1.01	30:20	49.057		* 2.5		*						
1,2,3,4,7,8-HxCDF	3.51e+06	1.22 y	1.18	33:01	45.805		* 2.5		*						
1,2,3,6,7,8-HxCDF	3.48e+06	1.22 y	1.07	33:09	46.040		* 2.5		*						
2,3,4,6,7,8-HxCDF	3.49e+06	1.22 y	1.11	33:44	47.466		* 2.5		*						
1,2,3,7,8,9-HxCDF	2.94e+06	1.25 y	1.06	34:41	46.941		* 2.5		*						
1,2,3,4,6,7,8-HpCDF	2.64e+06	0.99 y	1.13	36:31	45.684		* 2.5		*						
1,2,3,4,7,8,9-HpCDF	2.42e+06	1.01 y	1.28	38:18	43.687		* 2.5		*						
OCDF	5.38e+06	0.88 y	0.95	41:14	92.517		* 2.5		*						
										Rec	Qual				
IS 13C-2,3,7,8-TCDD	7.72e+06	0.79 y	1.10	26:04	103.54					104					
IS 13C-1,2,3,7,8-PeCDD	6.15e+06	0.62 y	0.88	30:36	102.47					102					
IS 13C-1,2,3,4,7,8-HxCDD	4.82e+06	1.28 y	0.64	33:53	107.98					108					
IS 13C-1,2,3,6,7,8-HxCDD	5.50e+06	1.29 y	0.86	33:59	92.466					92.5					
IS 13C-1,2,3,7,8,9-HxCDD	5.51e+06	1.24 y	0.81	34:17	98.411					98.4					
IS 13C-1,2,3,4,6,7,8-HpCDD	4.56e+06	1.05 y	0.65	37:45	100.43					100					
IS 13C-OCDD	1.01e+07	0.89 y	0.58	41:01	251.82					126					
IS 13C-2,3,7,8-TCDF	1.09e+07	0.77 y	1.03	25:17	100.26					100					
IS 13C-1,2,3,7,8-PeCDF	9.93e+06	1.60 y	0.85	29:25	111.02					111					
IS 13C-2,3,4,7,8-PeCDF	9.68e+06	1.60 y	0.85	30:19	109.16					109					
IS 13C-1,2,3,4,7,8-HxCDF	6.51e+06	0.52 y	0.83	33:00	112.62					113					
IS 13C-1,2,3,6,7,8-HxCDF	7.08e+06	0.51 y	1.03	33:08	98.534					98.5					
IS 13C-2,3,4,6,7,8-HxCDF	6.61e+06	0.51 y	0.95	33:43	99.828					99.8					
IS 13C-1,2,3,7,8,9-HxCDF	5.90e+06	0.51 y	0.83	34:40	102.68					103					
IS 13C-1,2,3,4,6,7,8-HpCDF	5.13e+06	0.44 y	0.76	36:30	97.457					97.5					
IS 13C-1,2,3,4,7,8,9-HpCDF	4.33e+06	0.43 y	0.58	38:18	107.20					107					
IS 13C-OCDF	1.23e+07	0.88 y	0.69	41:14	256.78					128					
C/Up 37Cl-2,3,7,8-TCDD	7.62e+05		1.20	26:05	9.3443					93.4					
RS/RT 13C-1,2,3,4-TCDD	6.81e+06	0.79 y	1.00	25:30	100.00						Integrations		Reviewed		
RS 13C-1,2,3,4-TCDF	1.05e+07	0.80 y	1.00	24:03	100.00						by		by		
RS/RT 13C-1,2,3,4,6,9-HxCDF	6.95e+06	0.52 y	1.00	33:25	100.00						Analyst: <u>DB</u>		Analyst: <u>EL</u>		
											Date: <u>12/5/19</u>		Date: <u>12/6/19</u>		

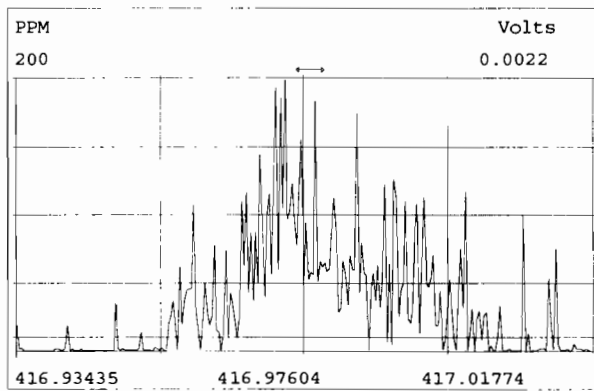
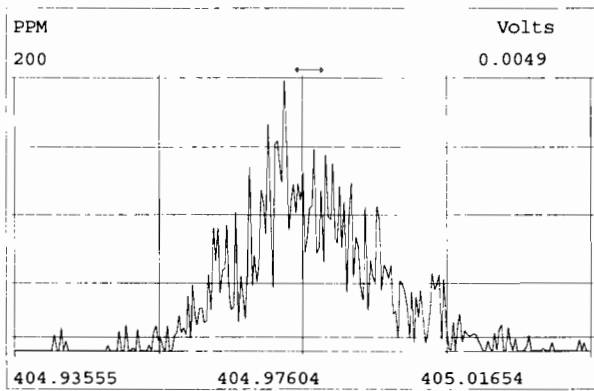
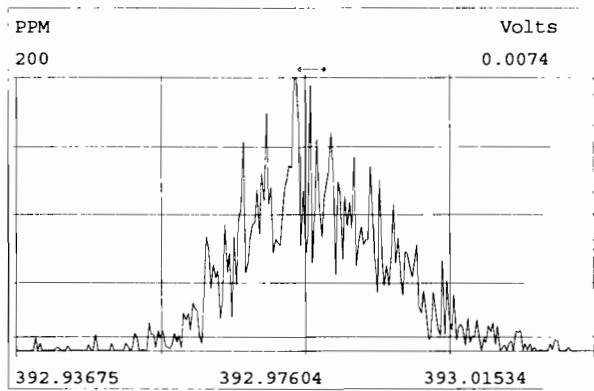
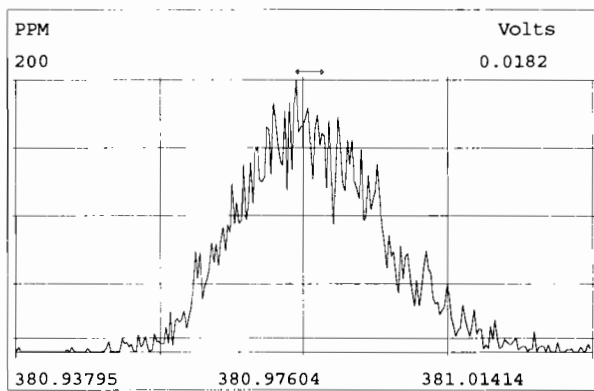
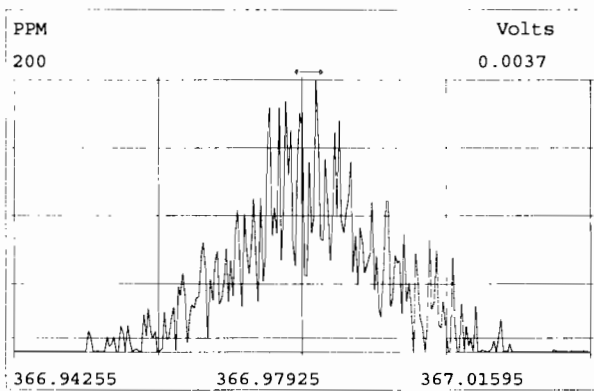
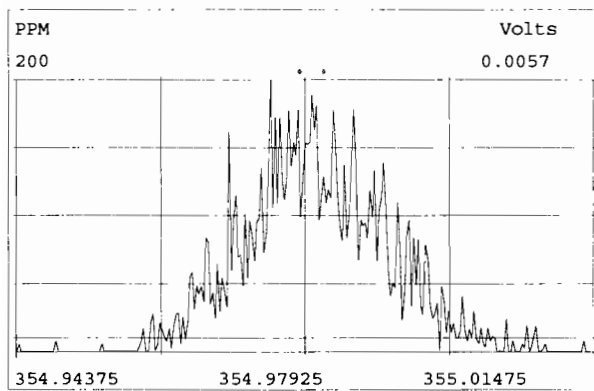
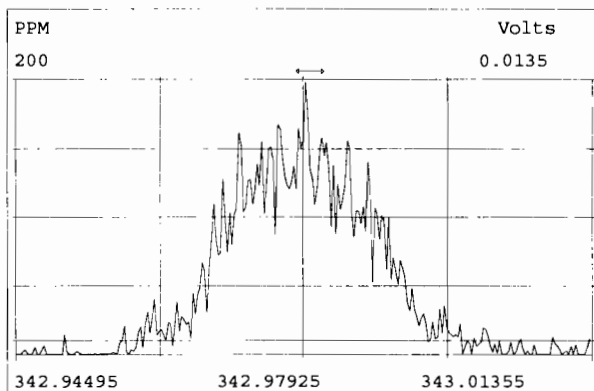
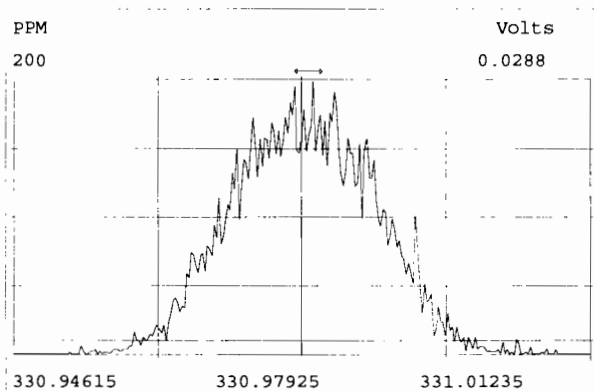
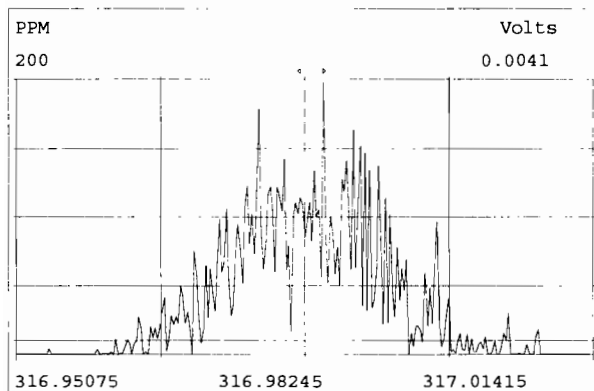
Vista Analytical Laboratory - Injection Log Run file: 191204D2 Instrument ID: VG-7 GC Column ID: ZB-5MS

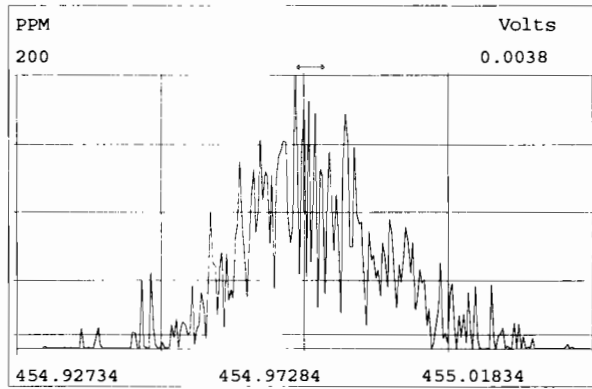
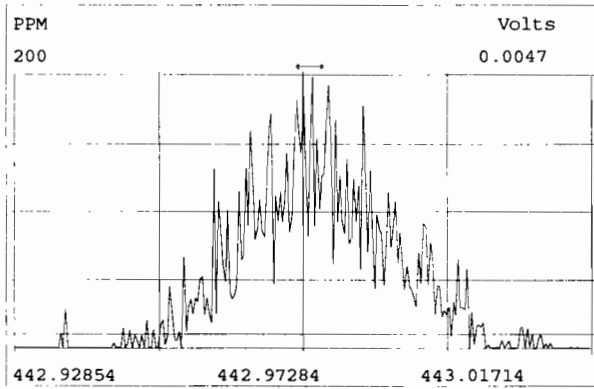
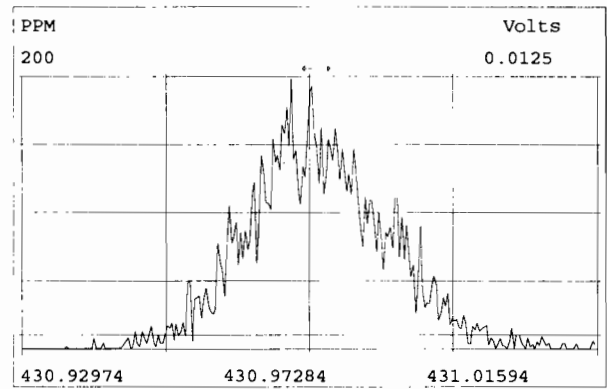
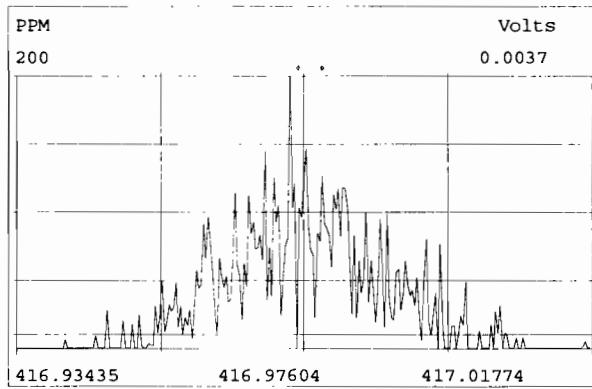
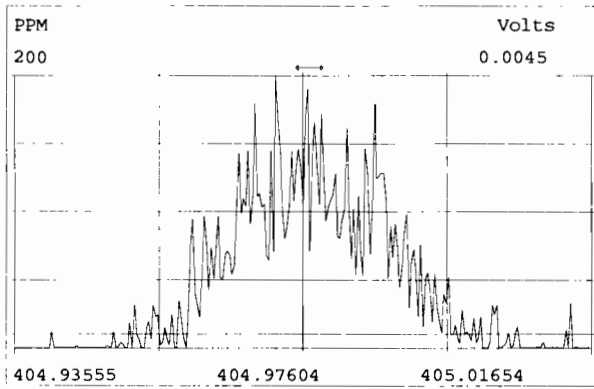
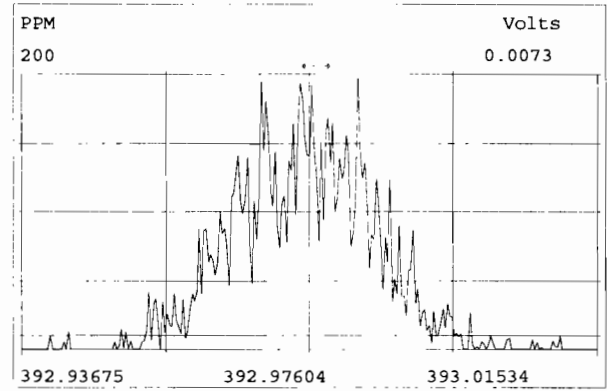
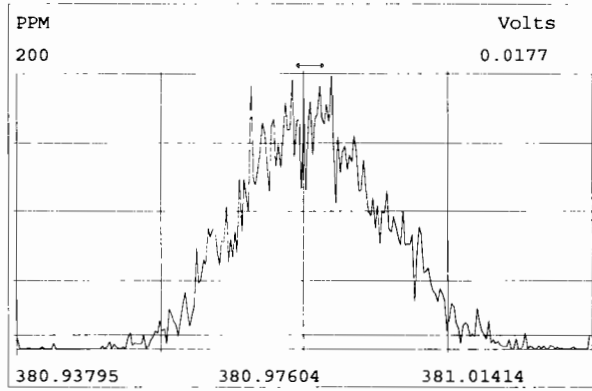
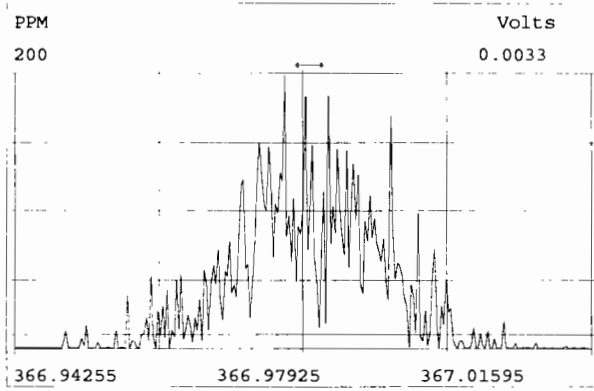
Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
191204D2	1	ST191204D2-1	DB	5-DEC-19	07:34:10	ST191204D2-1	NA
191204D2	2	B9K0169-BS1	DB	5-DEC-19	08:21:55	ST191204D2-1	NA
191204D2	3	SOLVENT BLANK	DB	5-DEC-19	09:09:51	ST191204D2-1	NA
191204D2	4	B9K0169-BLK1	DB	5-DEC-19	09:57:48	ST191204D2-1	NA
191204D2	5	1904016-03	DB	5-DEC-19	10:45:45	ST191204D2-1	NA
191204D2	6	1904016-04	DB	5-DEC-19	11:33:42	ST191204D2-1	NA
191204D2	7	1904016-05	DB	5-DEC-19	12:21:33	ST191204D2-1	NA
191204D2	8	1904016-06	DB	5-DEC-19	13:09:20	ST191204D2-1	NA
191204D2	9	1904016-07	DB	5-DEC-19	13:57:12	ST191204D2-1	NA
191204D2	10	1904016-08	DB	5-DEC-19	14:45:08	ST191204D2-1	NA
191204D2	11	1904016-09	DB	5-DEC-19	15:33:00	ST191204D2-1	NA



Peak Locate Examination: 5-DEC-2019:07:30 File:RES_CHECK

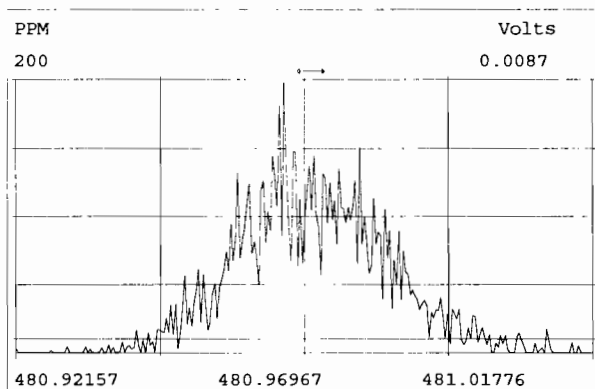
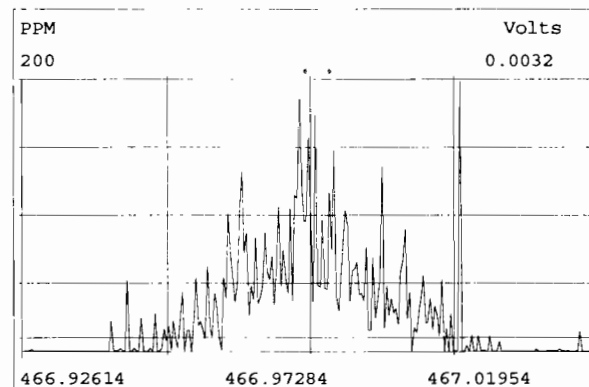
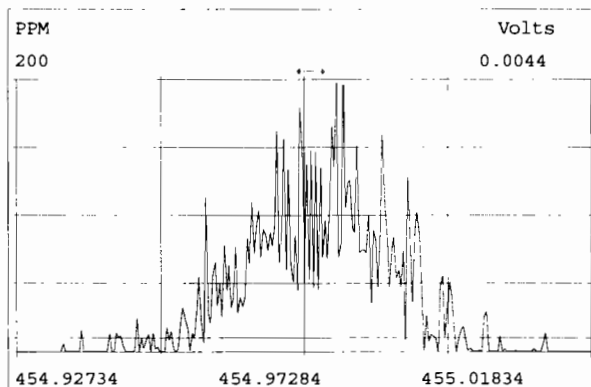
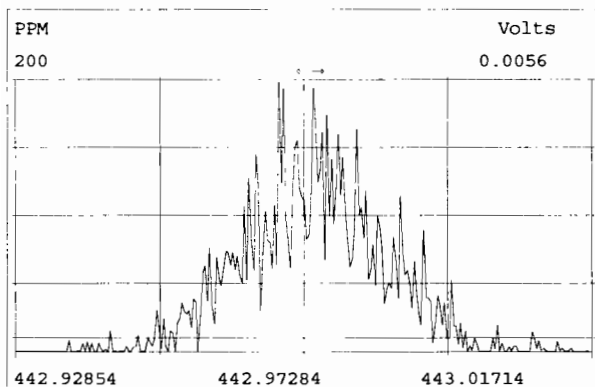
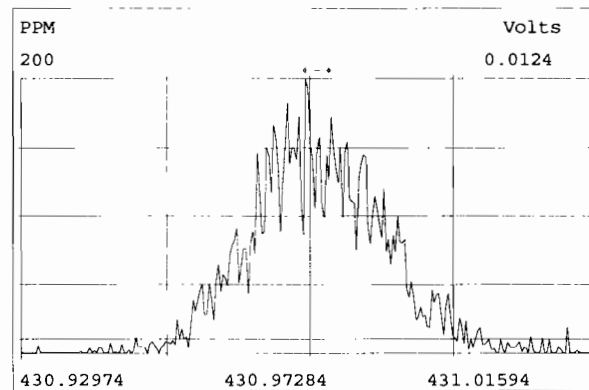
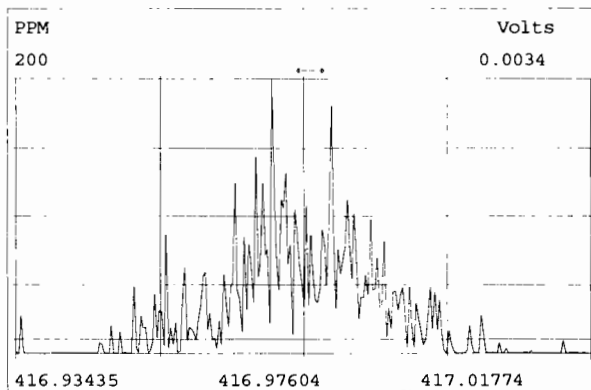
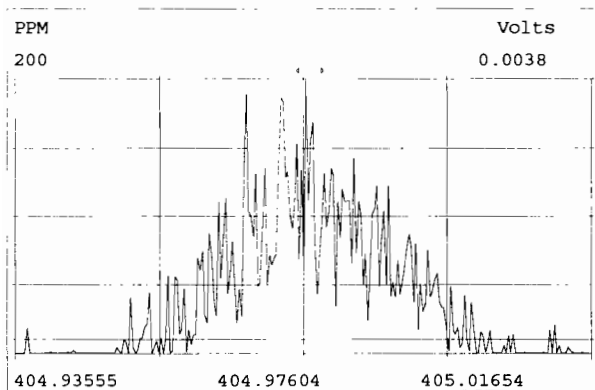
Experiment:OCDD_DB5 Function:2 Reference:PFK

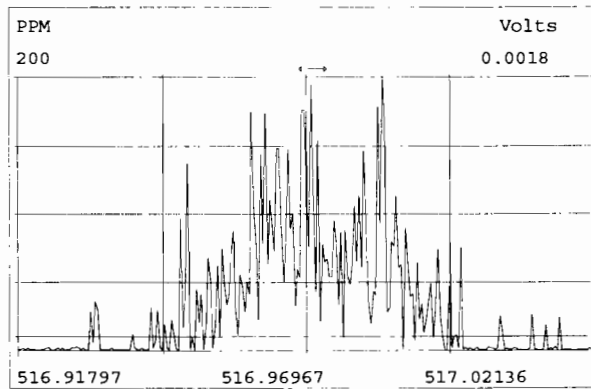
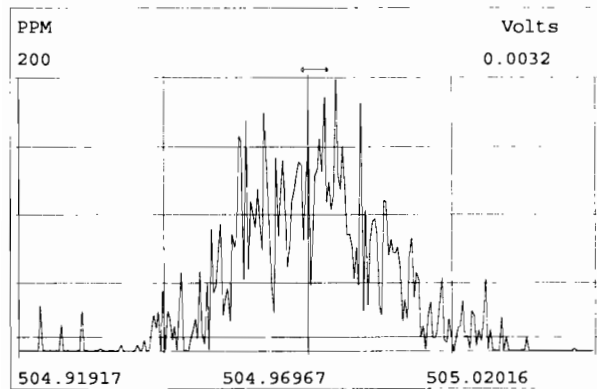
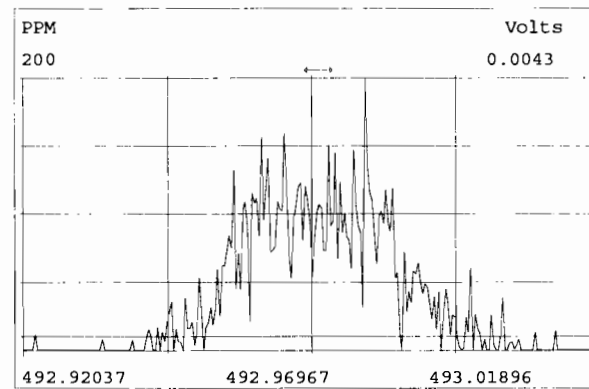
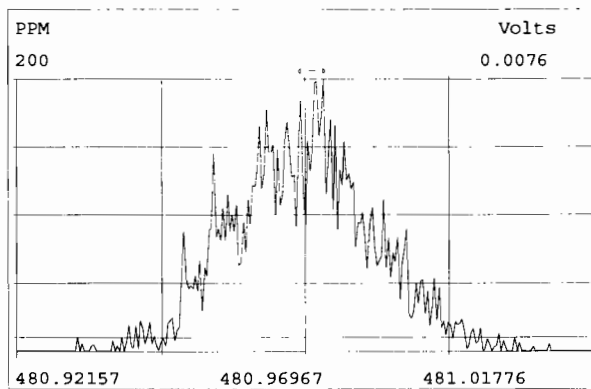
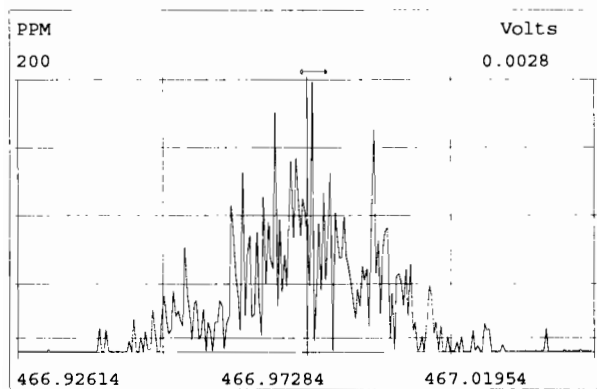
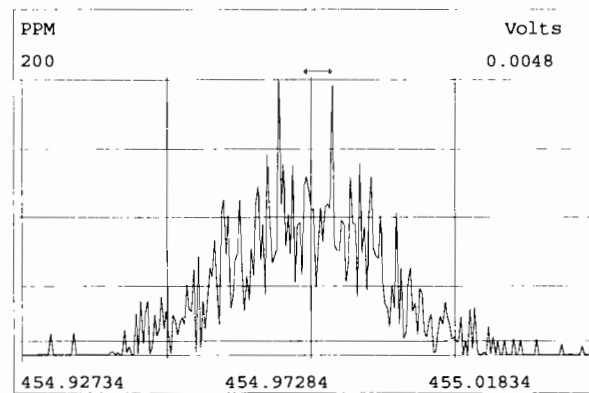
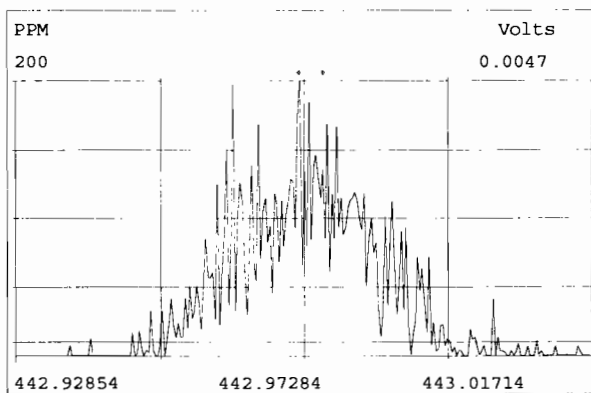
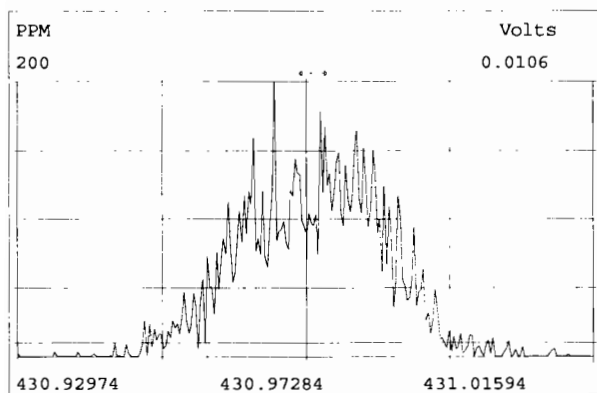




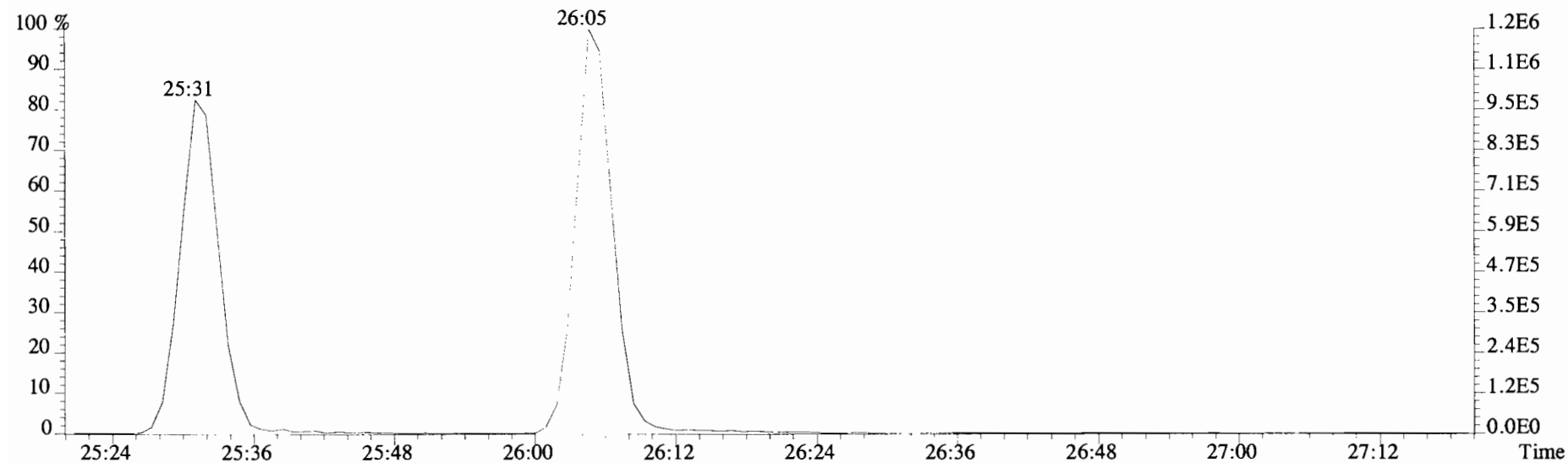
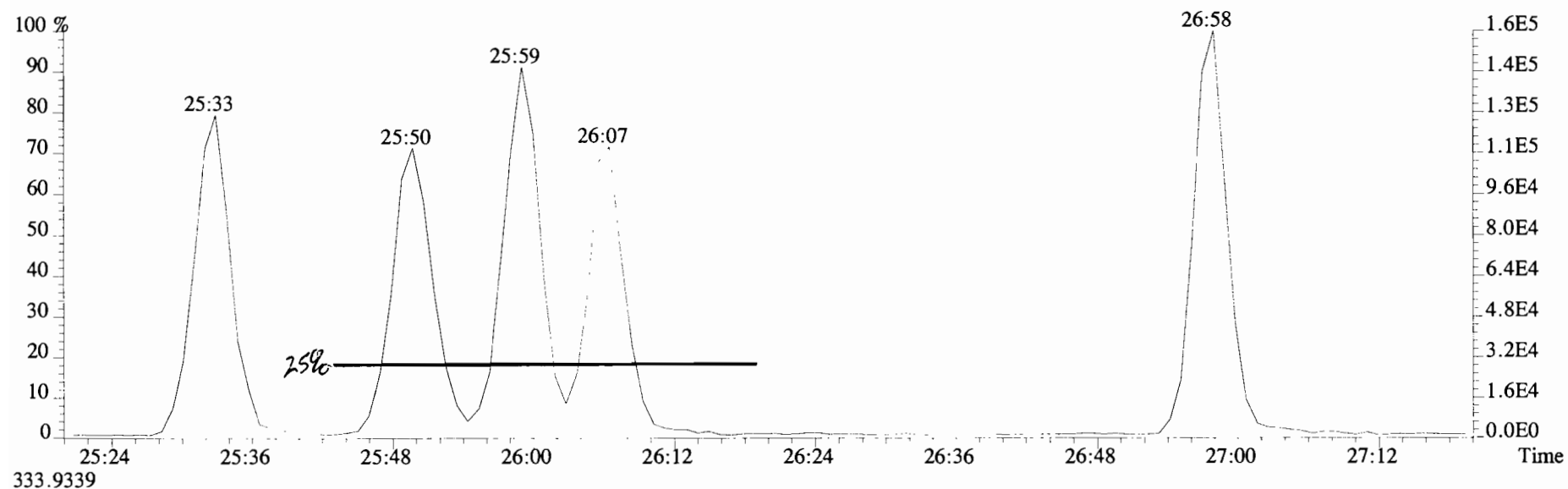
Peak Locate Examination: 5-DEC-2019:07:32 File:RES_CHECK

Experiment:OCDD_DB5 Function:4 Reference:PFK

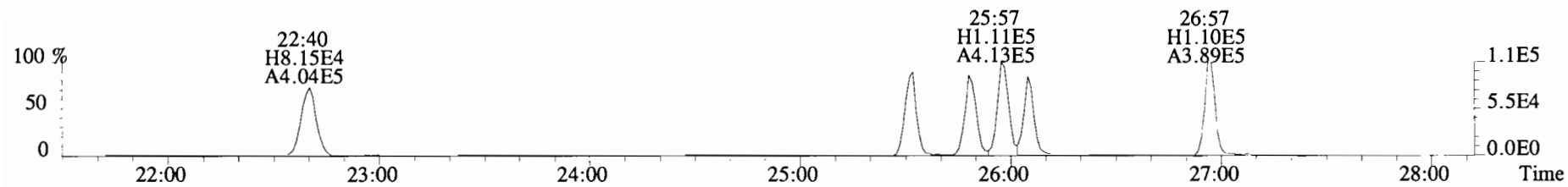




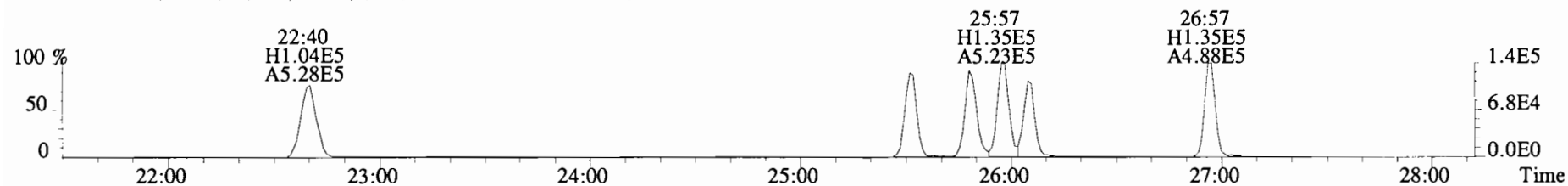
File:191204D1 #1-493 Acq: 4-DEC-2019 17:47:03 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191204D1-1 1613 CS3 19C2204 Exp:OCDD_DB5
321.8936



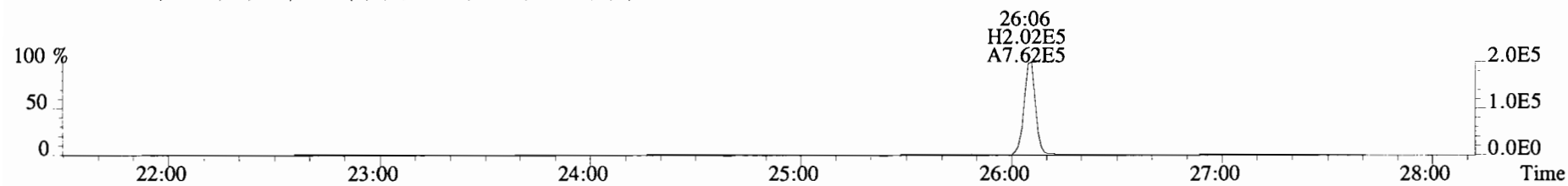
File: 191204D2 #1-492 Acq: 5-DEC-2019 07:34:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text: Vista_Analytical_Laboratory_VG7 Text: ST191204D2-1 1613 CS3 19C2204 Exp: OCDD_DB5
319.8965 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



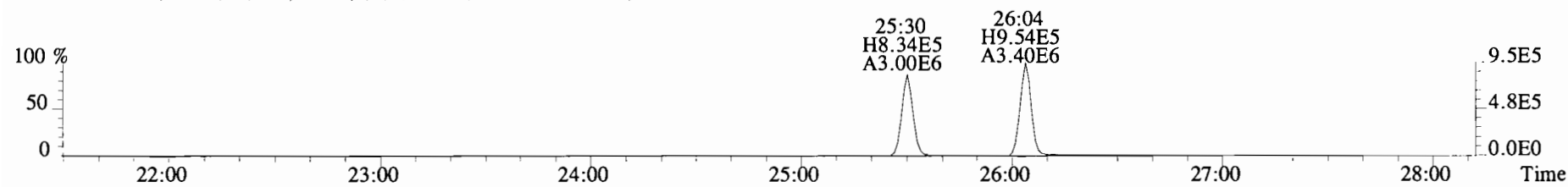
321.8936 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



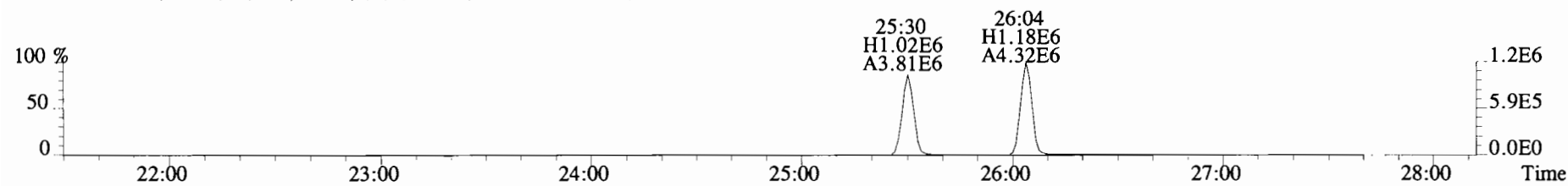
327.8847 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



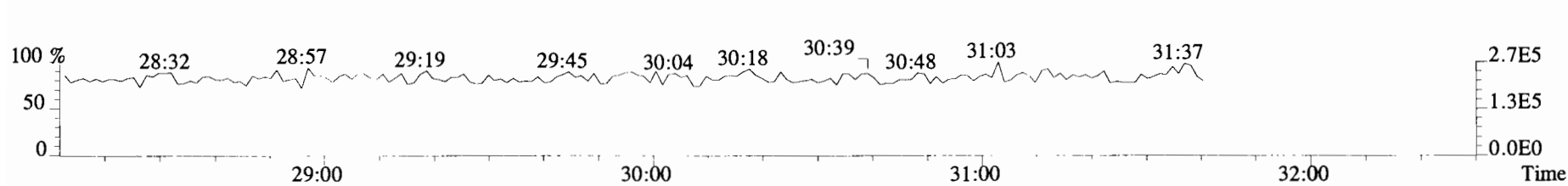
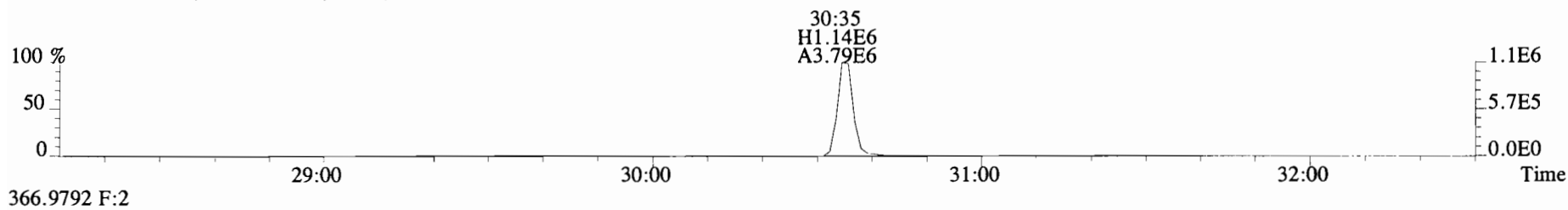
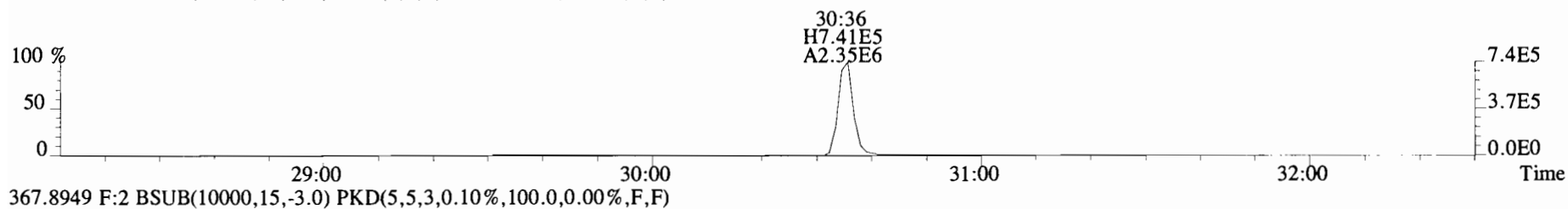
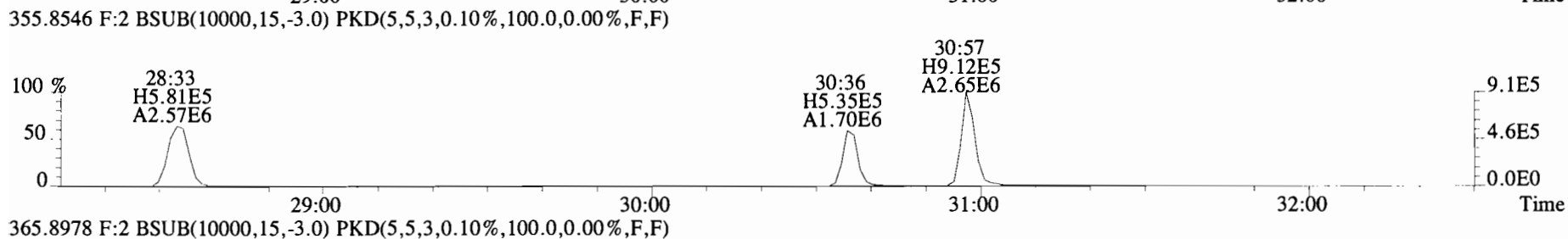
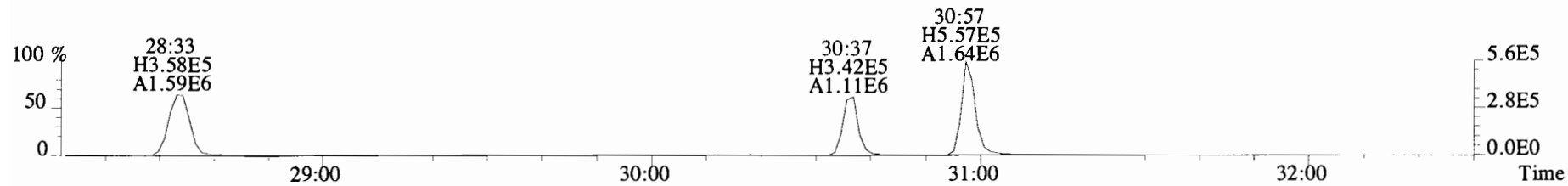
331.9368 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



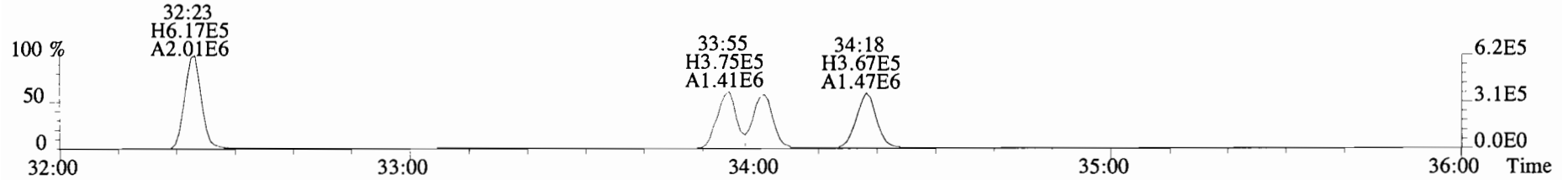
333.9339 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



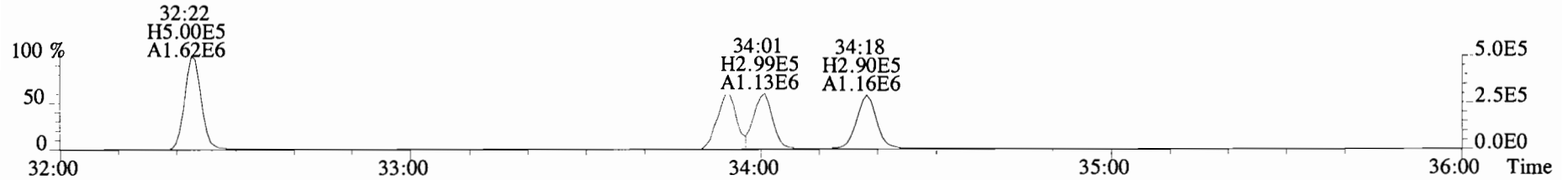
File:191204D2 #1-211 Acq: 5-DEC-2019 07:34:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191204D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
353.8576 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



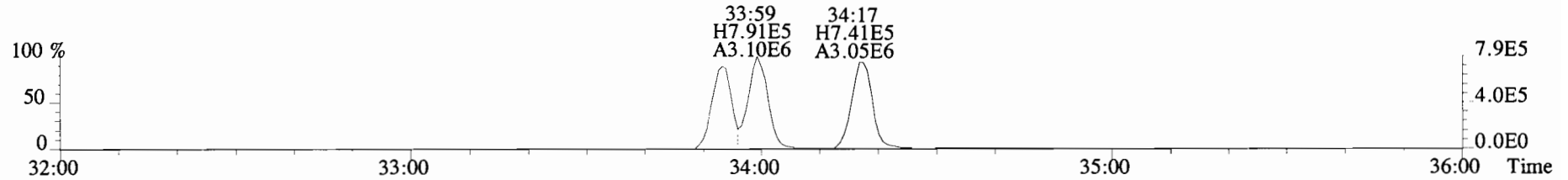
File:191204D2 #1-385 Acq: 5-DEC-2019 07:34:10 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191204D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
 389.8156 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



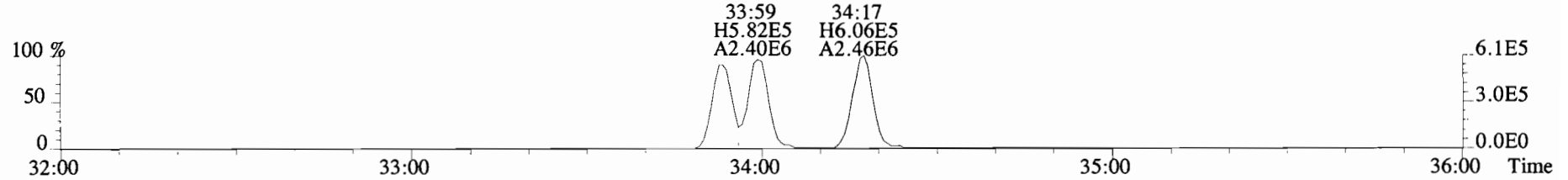
391.8127 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



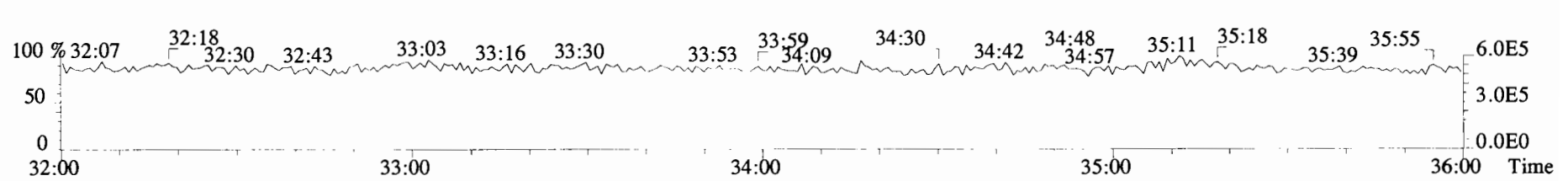
401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



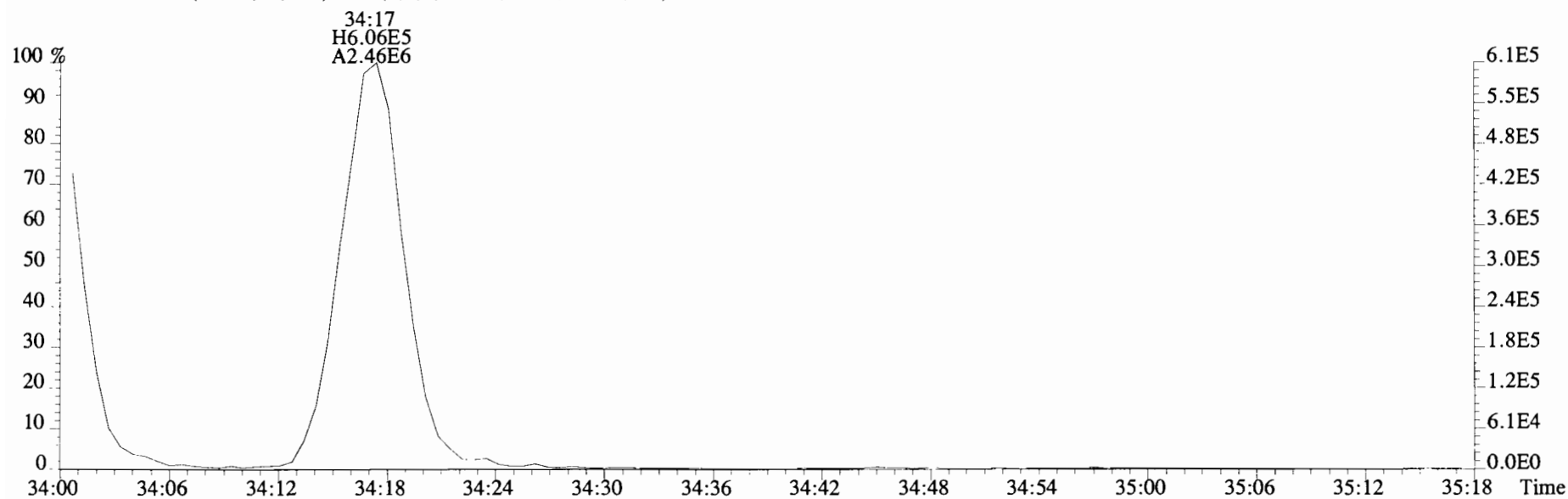
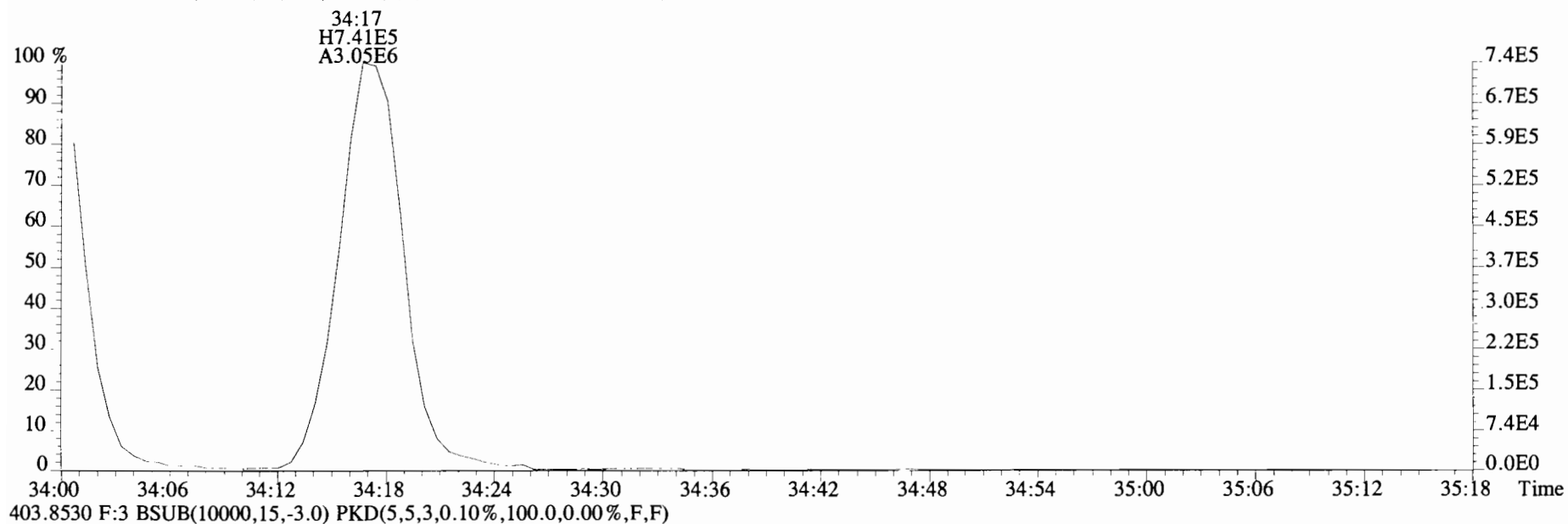
403.8530 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



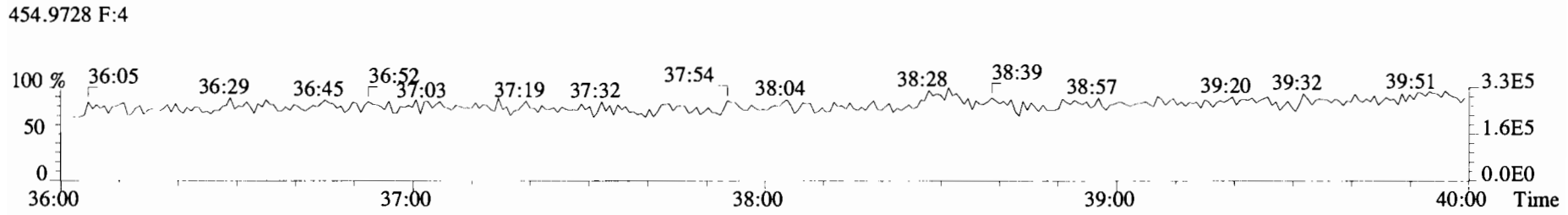
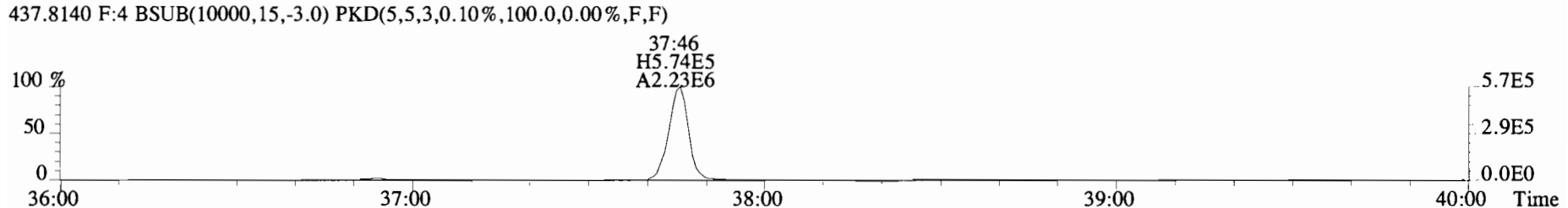
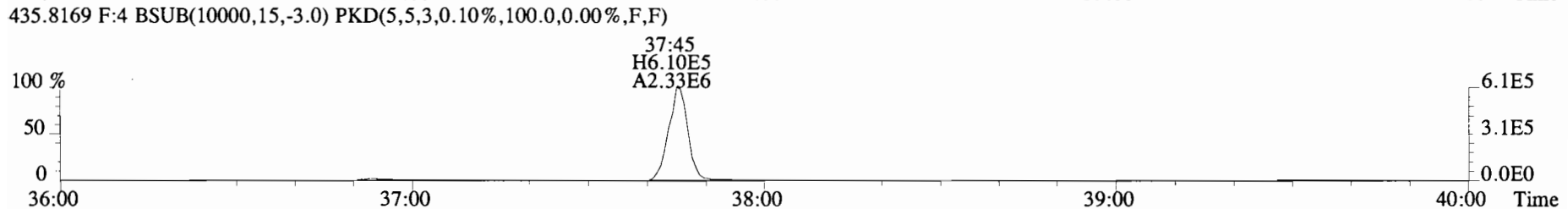
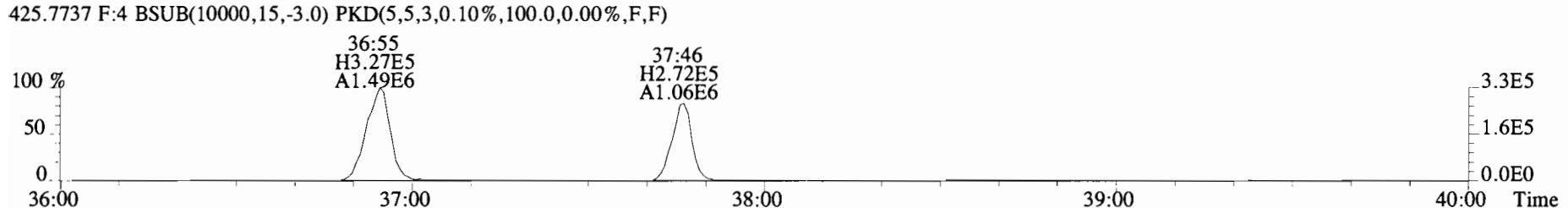
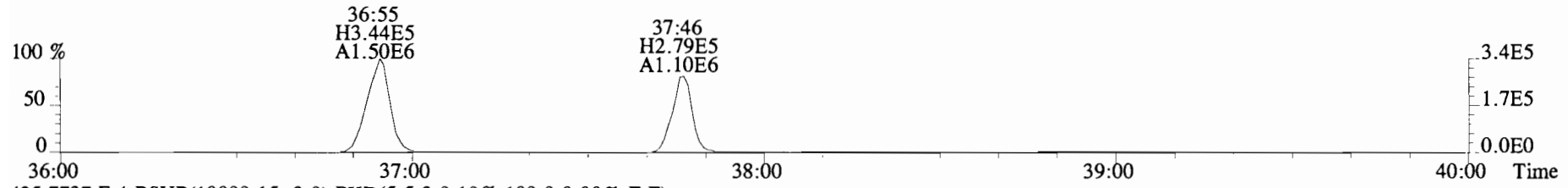
392.9760 F:3



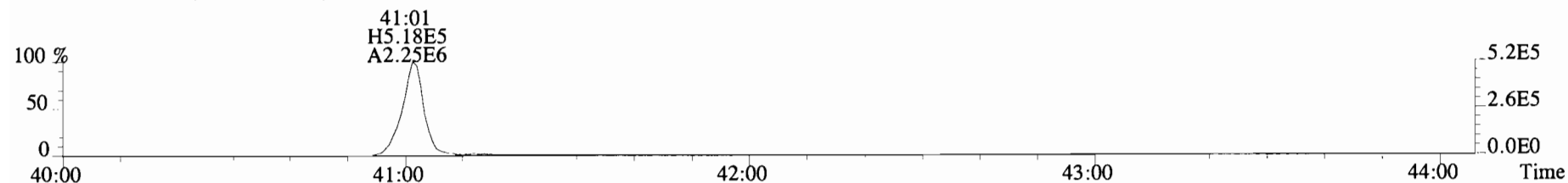
File:191204D2 #1-385 Acq: 5-DEC-2019 07:34:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory_VG7 Text:ST191204D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



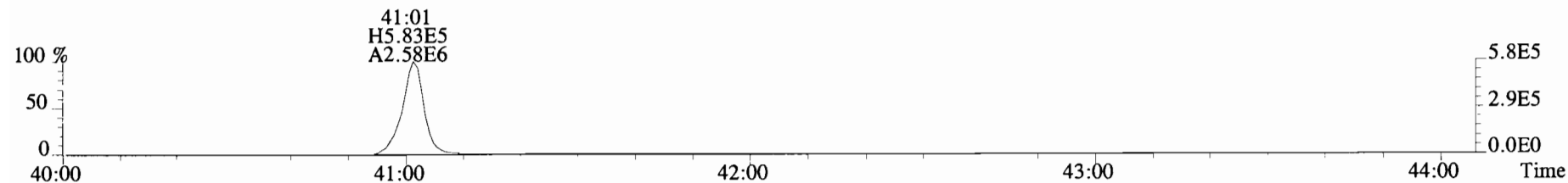
File:191204D2 #1-355 Acq: 5-DEC-2019 07:34:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191204D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



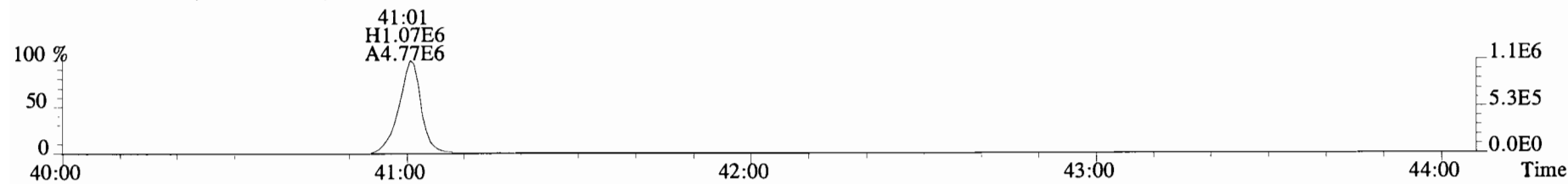
File:191204D2 #1-432 Acq: 5-DEC-2019 07:34:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191204D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



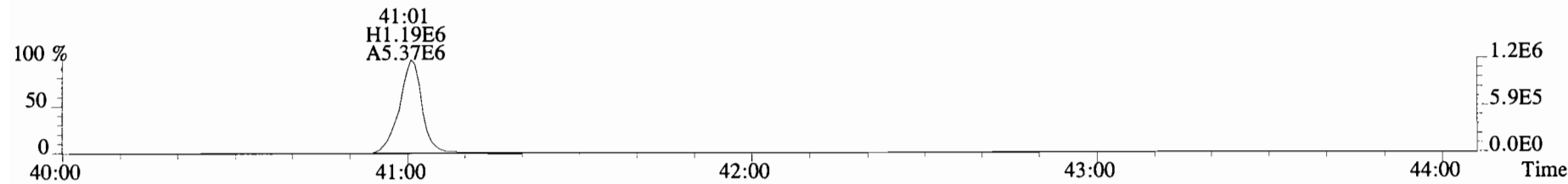
459.7348 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



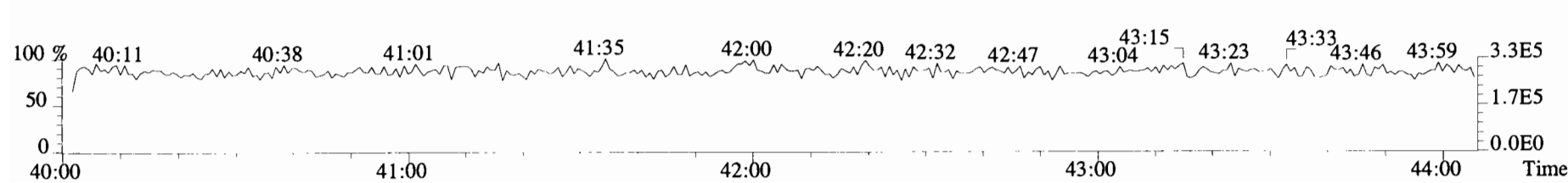
469.7780 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



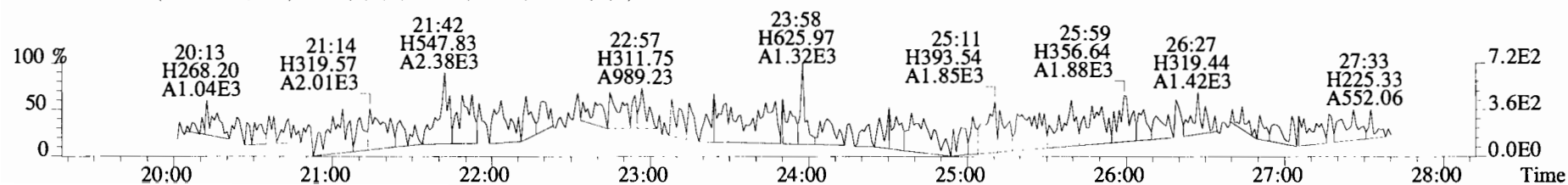
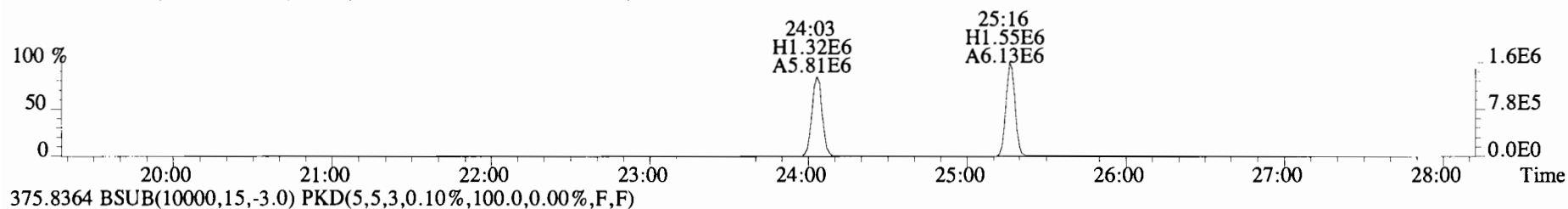
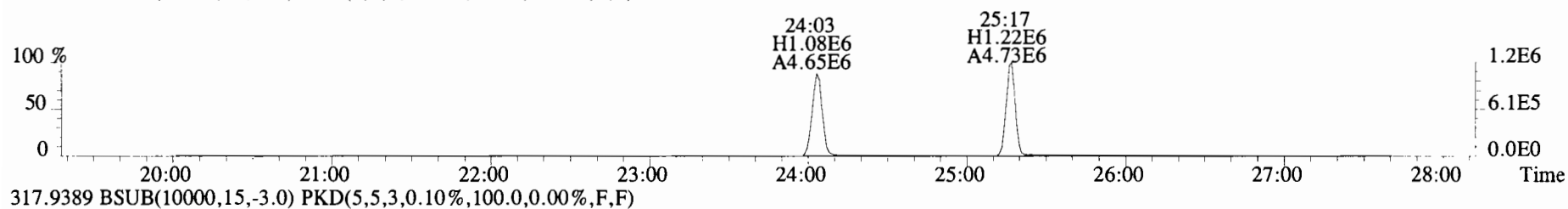
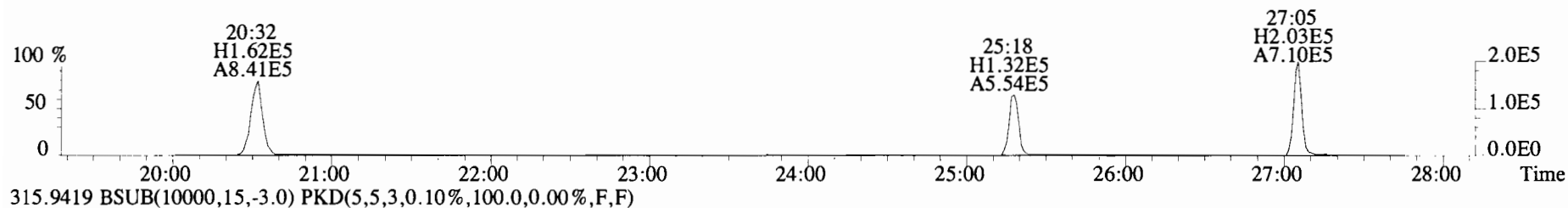
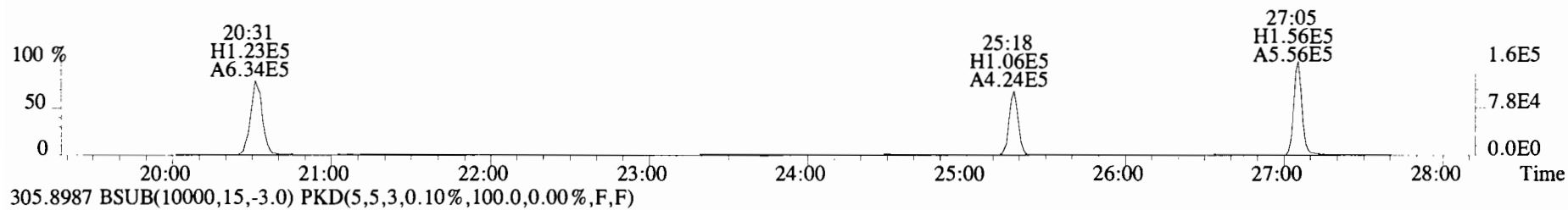
471.7750 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



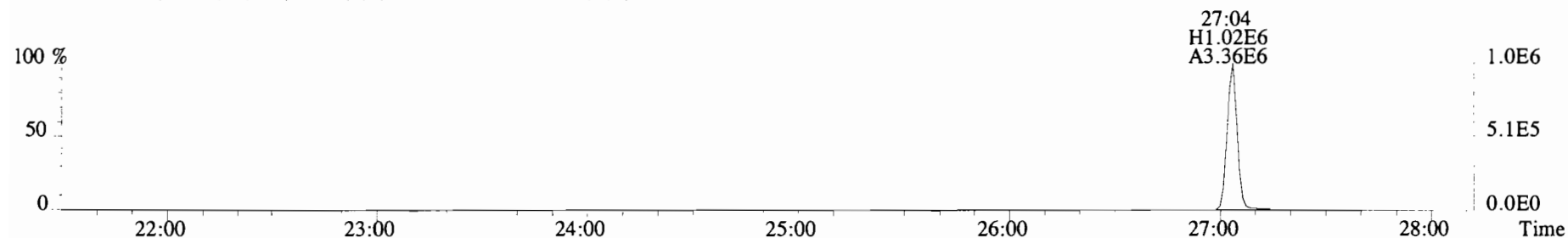
454.9728 F:5



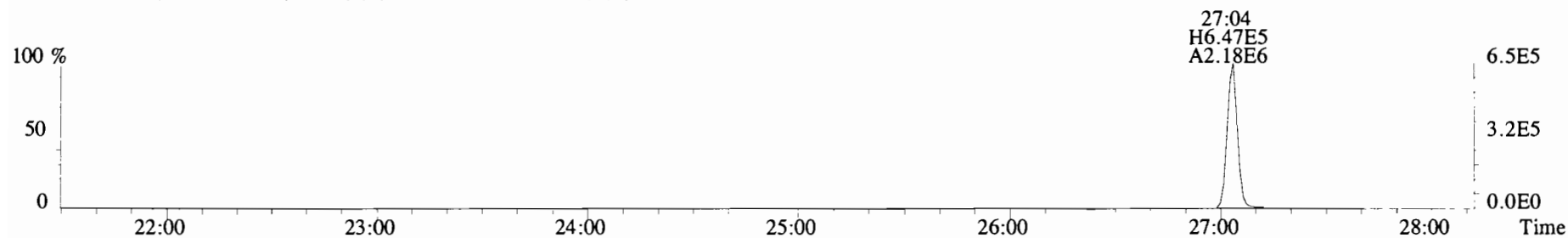
File:191204D2 #1-492 Acq: 5-DEC-2019 07:34:10 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191204D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
 303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



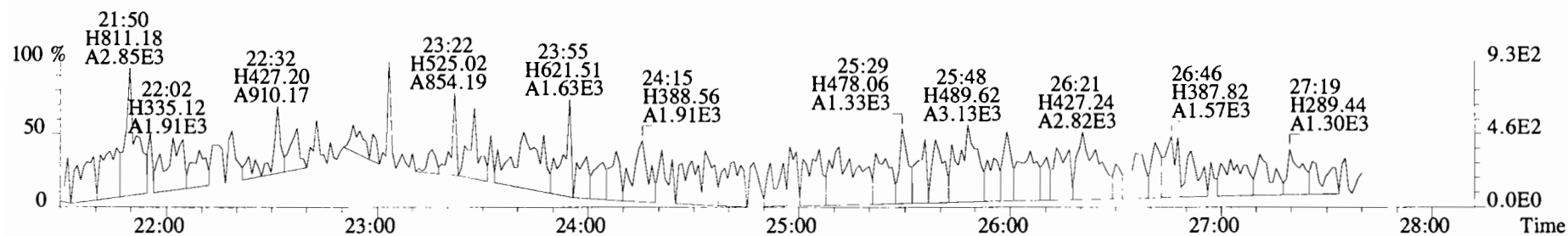
File:191204D2 #1-492 Acq: 5-DEC-2019 07:34:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST191204D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
339.8597 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



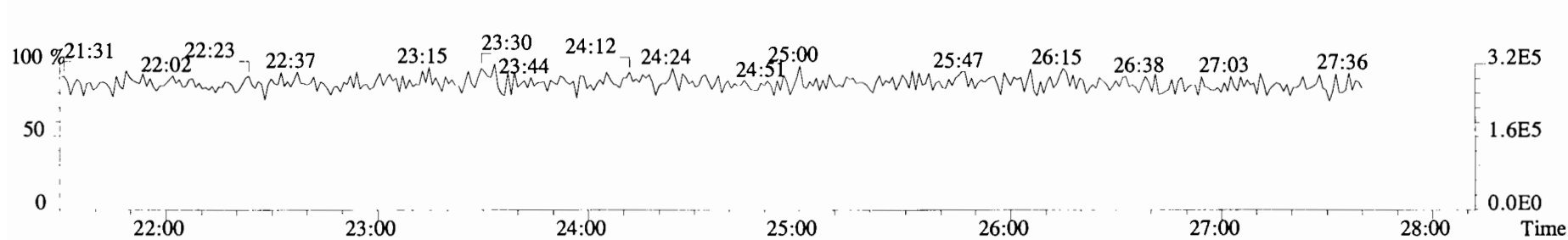
341.8568 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



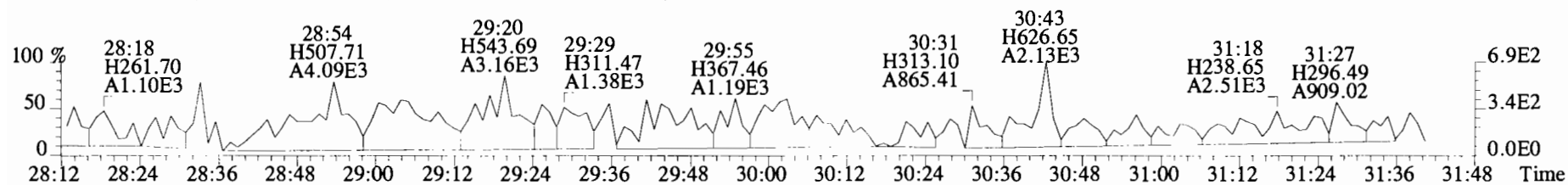
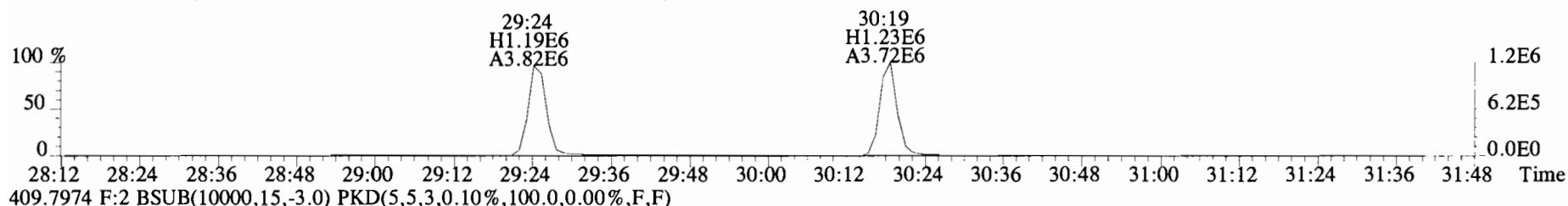
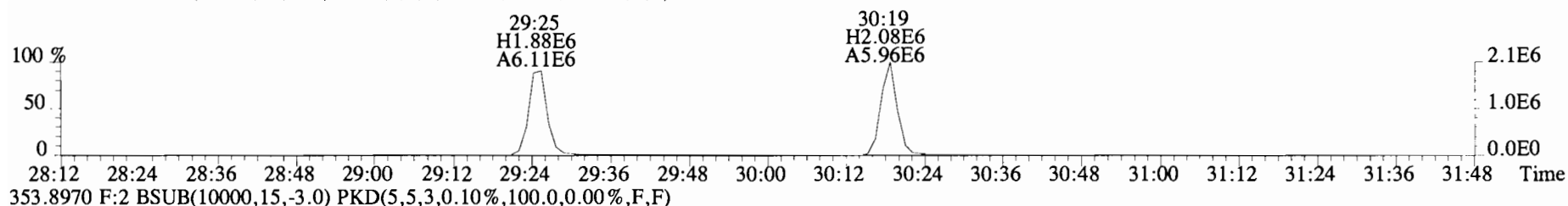
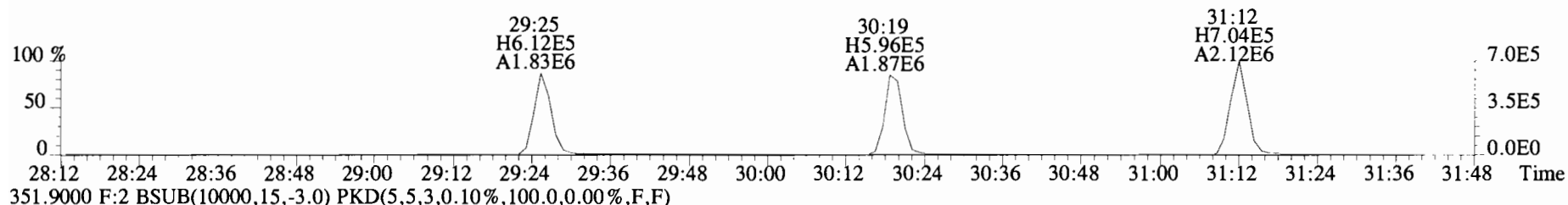
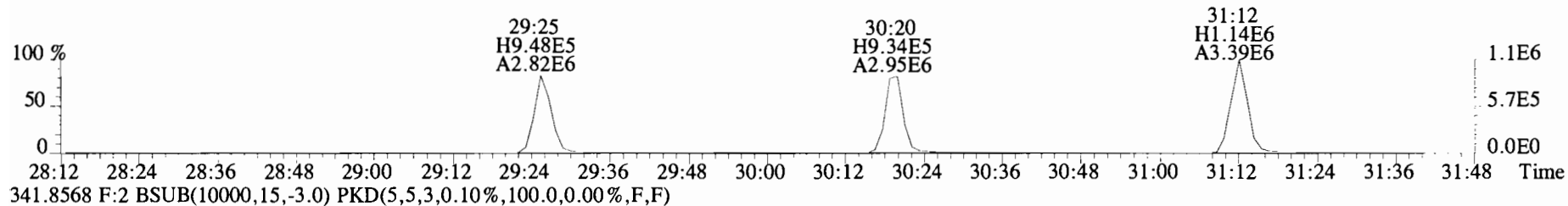
409.7974 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



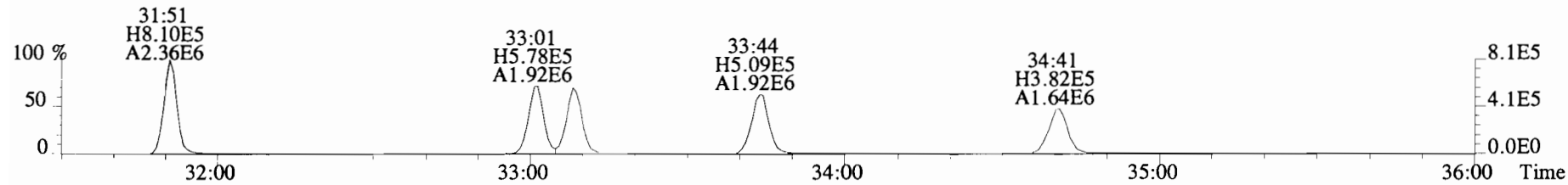
316.9824



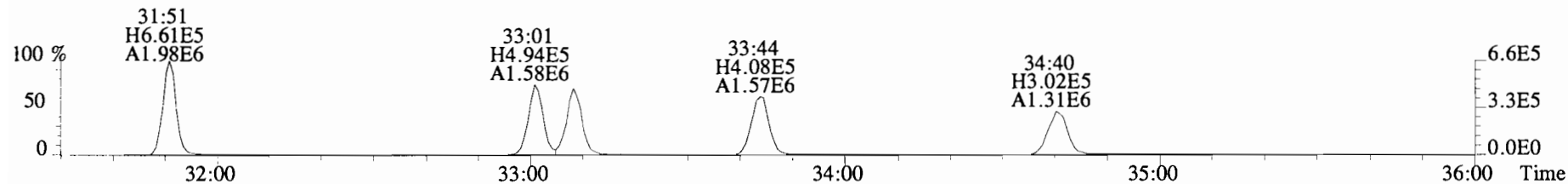
File:191204D2 #1-211 Acq: 5-DEC-2019 07:34:10 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191204D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
 339.8597 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



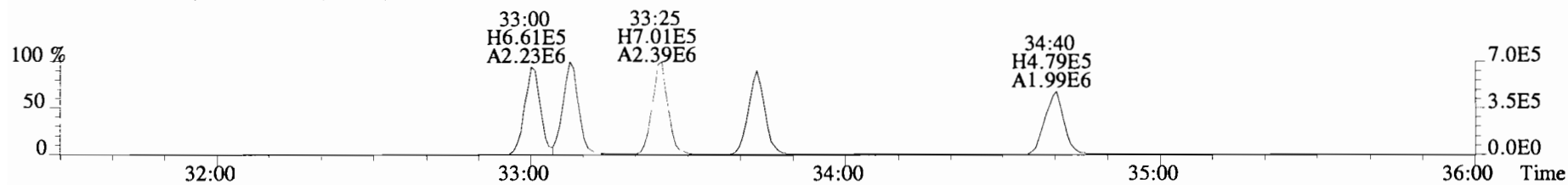
File:191204D2 #1-385 Acq: 5-DEC-2019 07:34:10 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191204D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
 373.8207 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



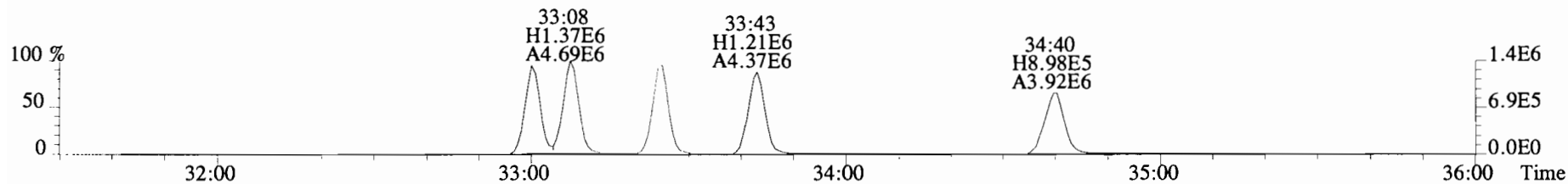
375.8178 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



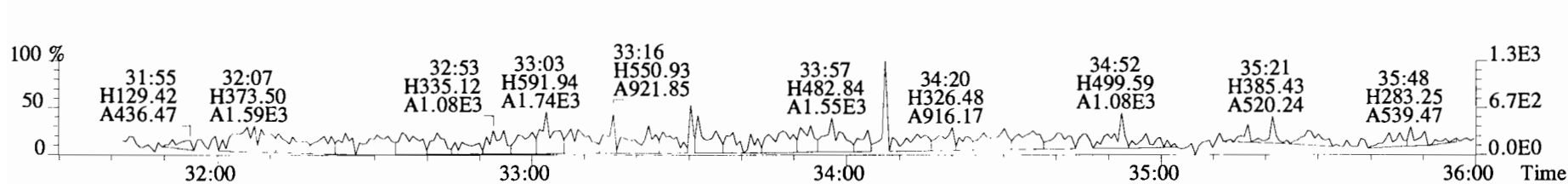
383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



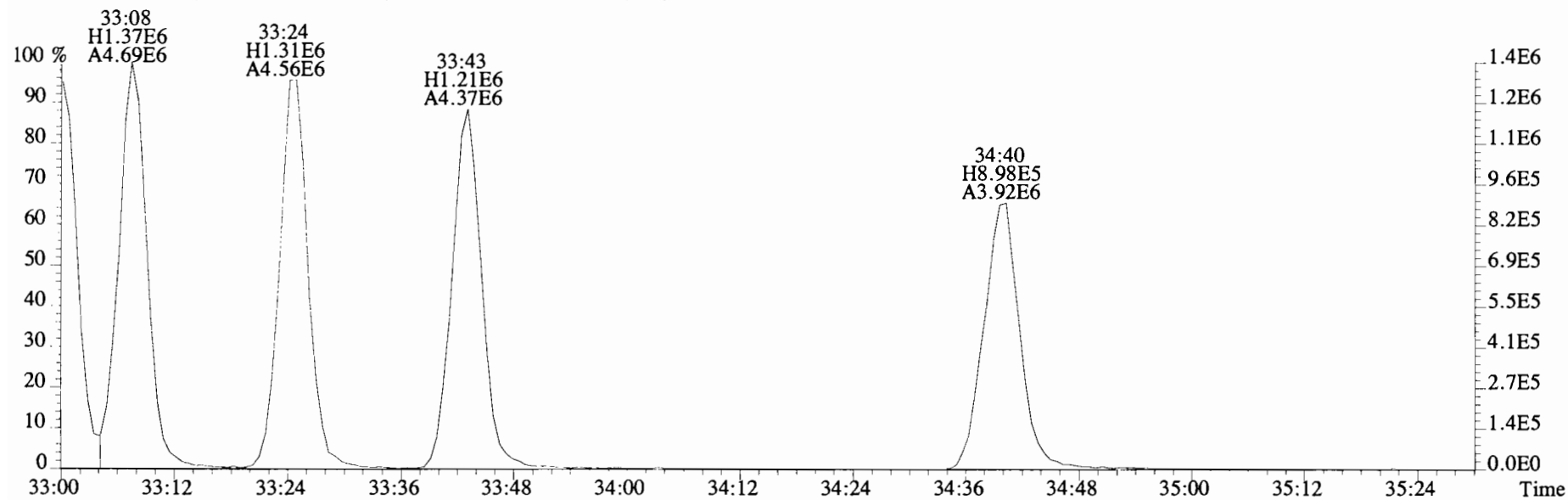
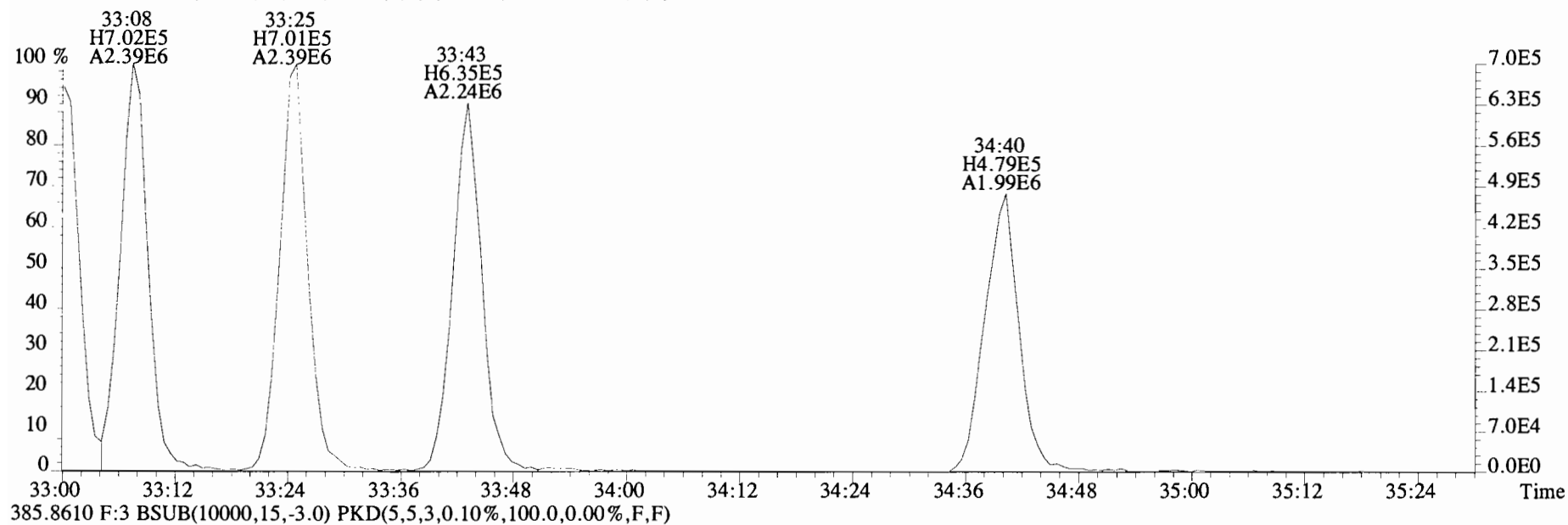
385.8610 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



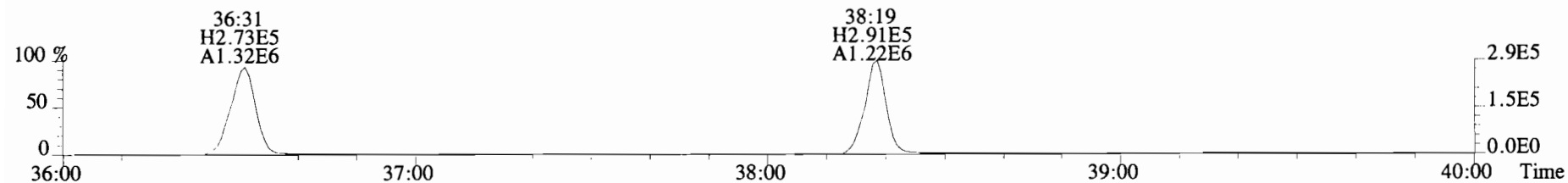
445.7555 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



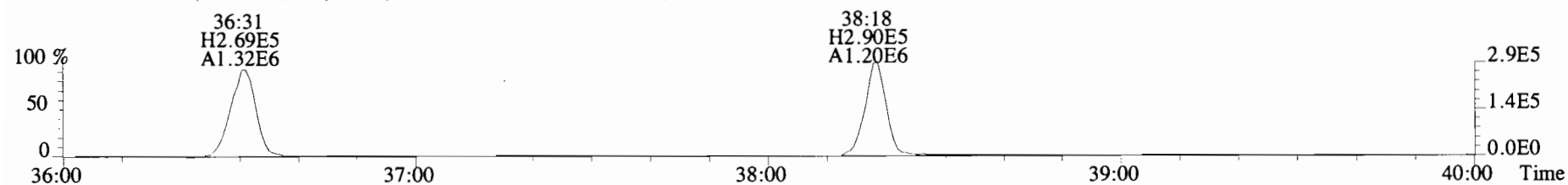
File:191204D2 #1-385 Acq: 5-DEC-2019 07:34:10 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory_VG7 Text:ST191204D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



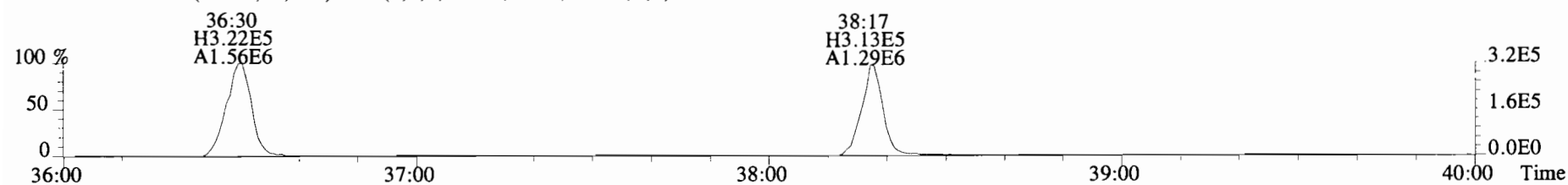
File:191204D2 #1-355 Acq: 5-DEC-2019 07:34:10 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text: Vista_Analytical_Laboratory_VG7 Text:ST191204D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
 407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



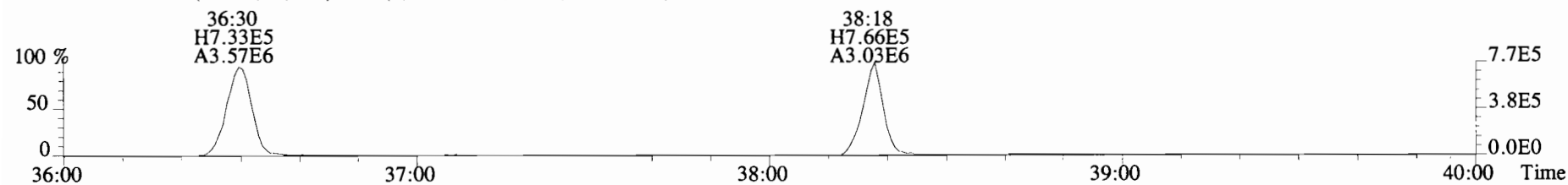
409.7788 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



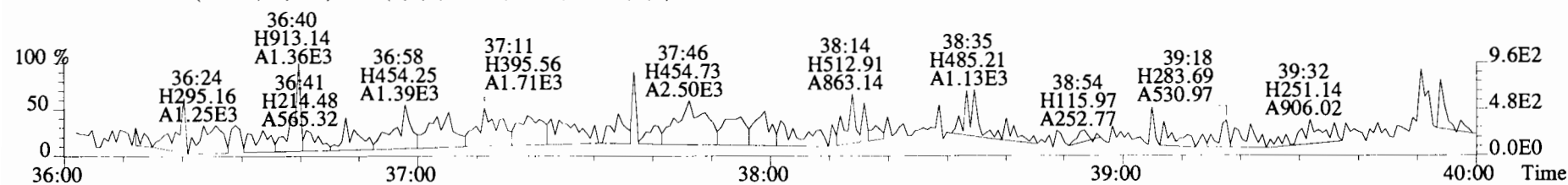
417.8253 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



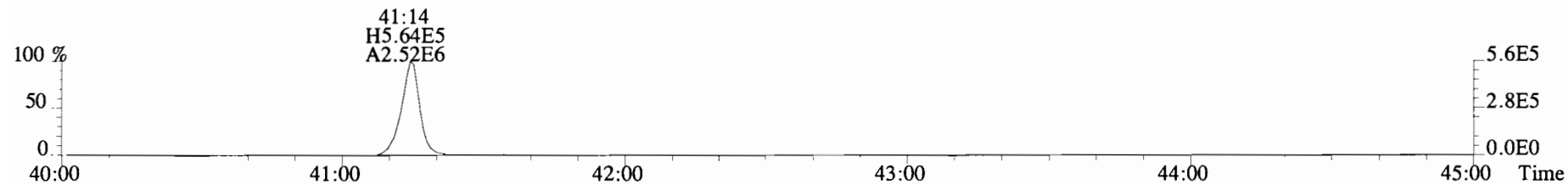
419.8220 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



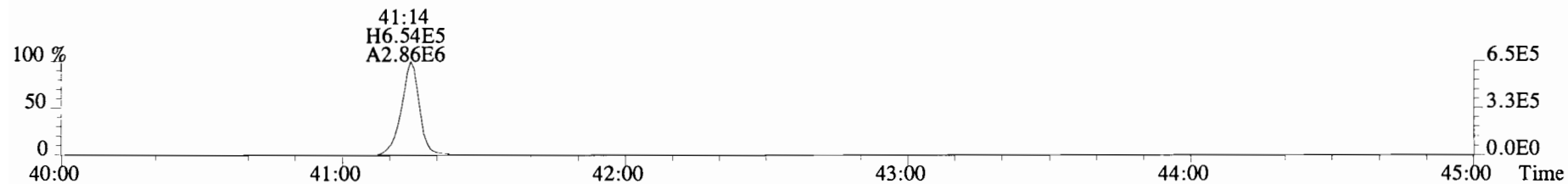
479.7165 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



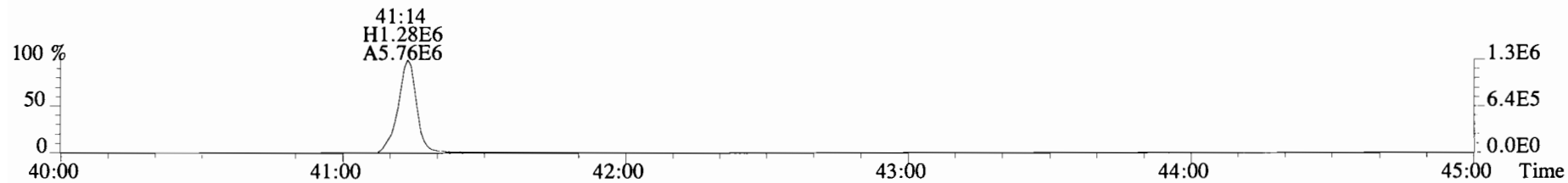
File:191204D2 #1-432 Acq: 5-DEC-2019 07:34:10 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191204D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
 441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



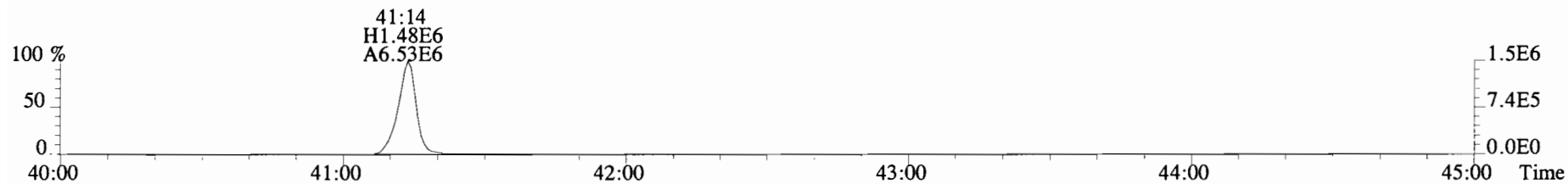
443.7398 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



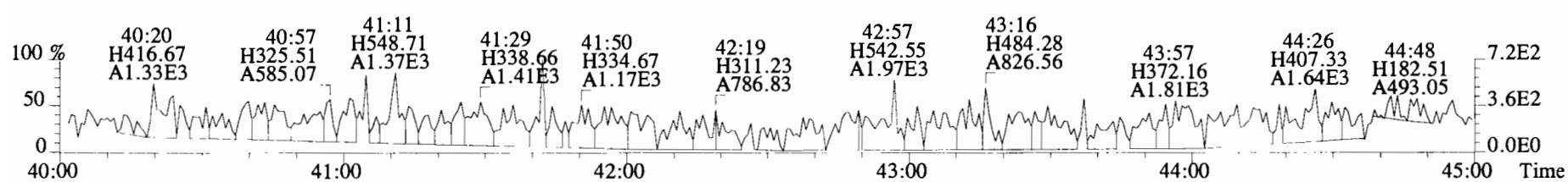
453.7831 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

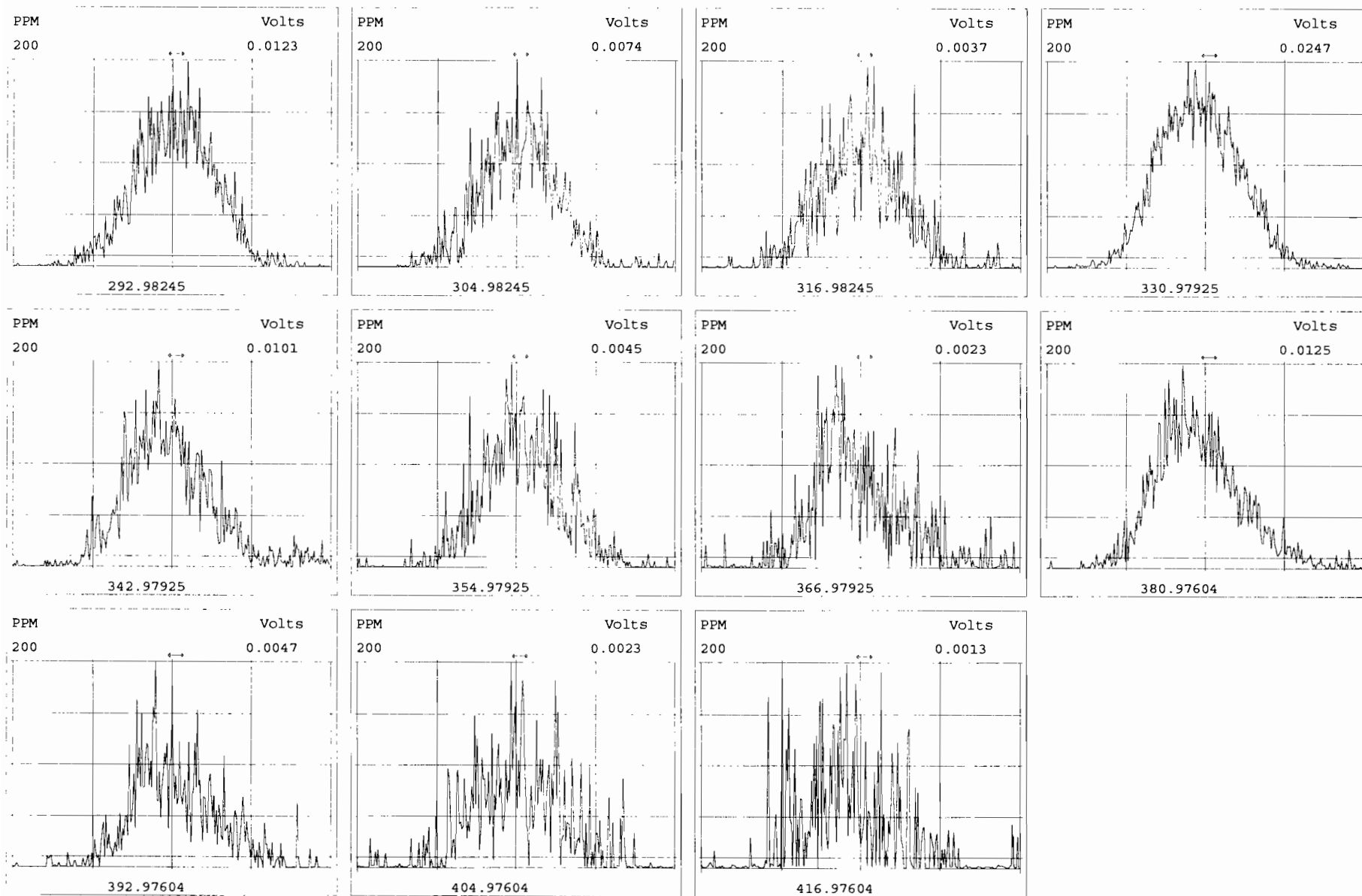


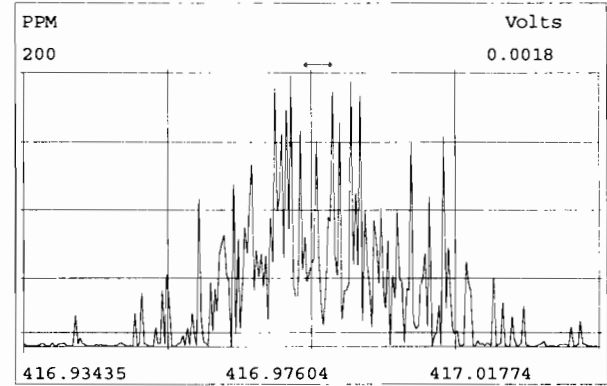
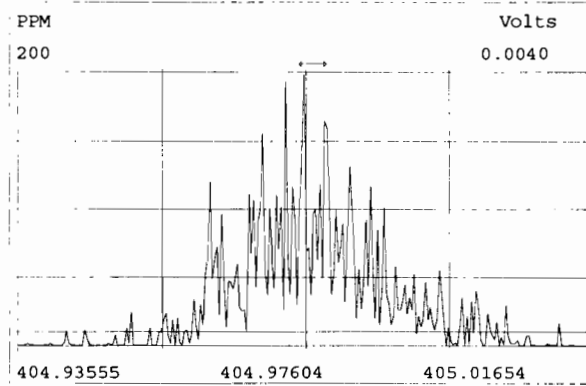
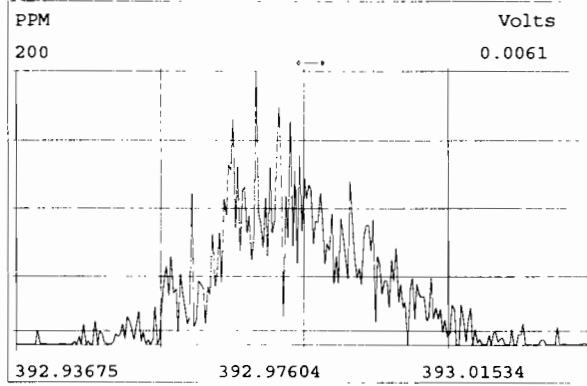
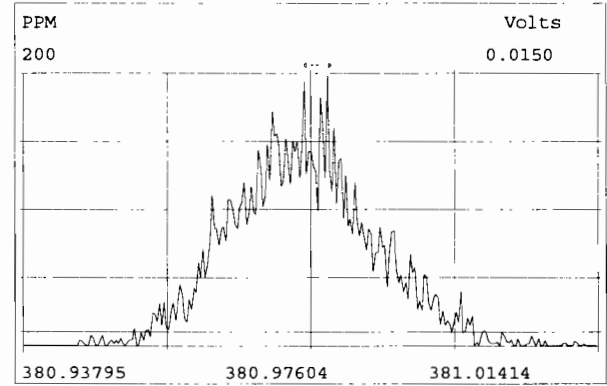
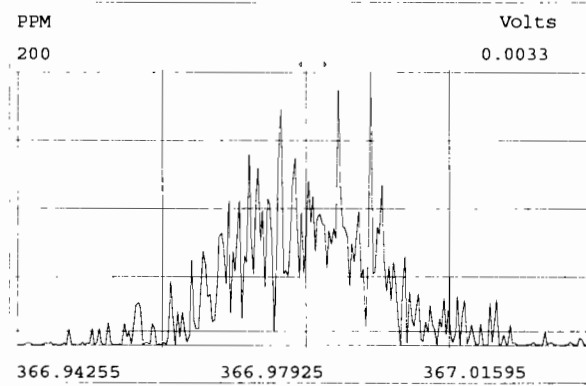
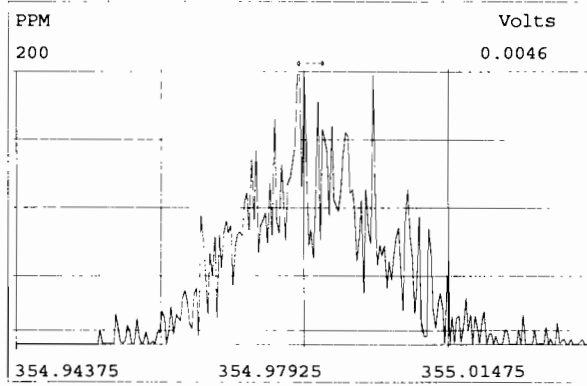
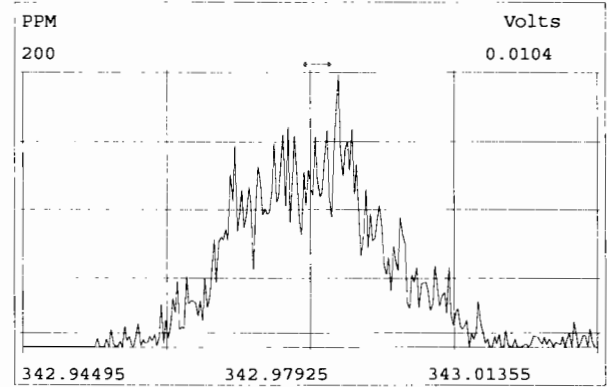
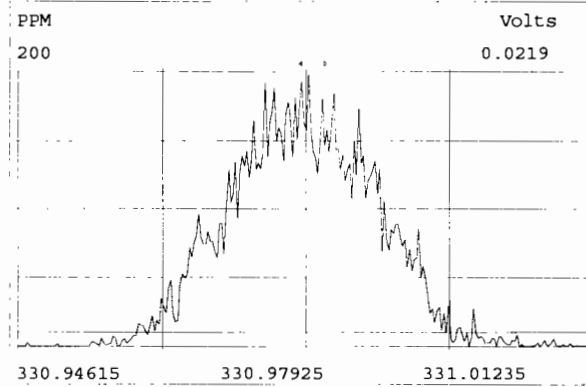
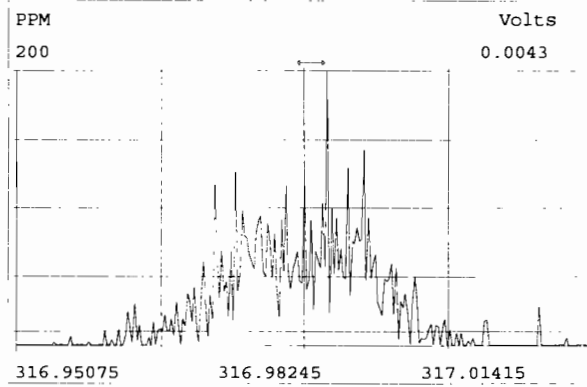
455.7801 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



513.6775 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

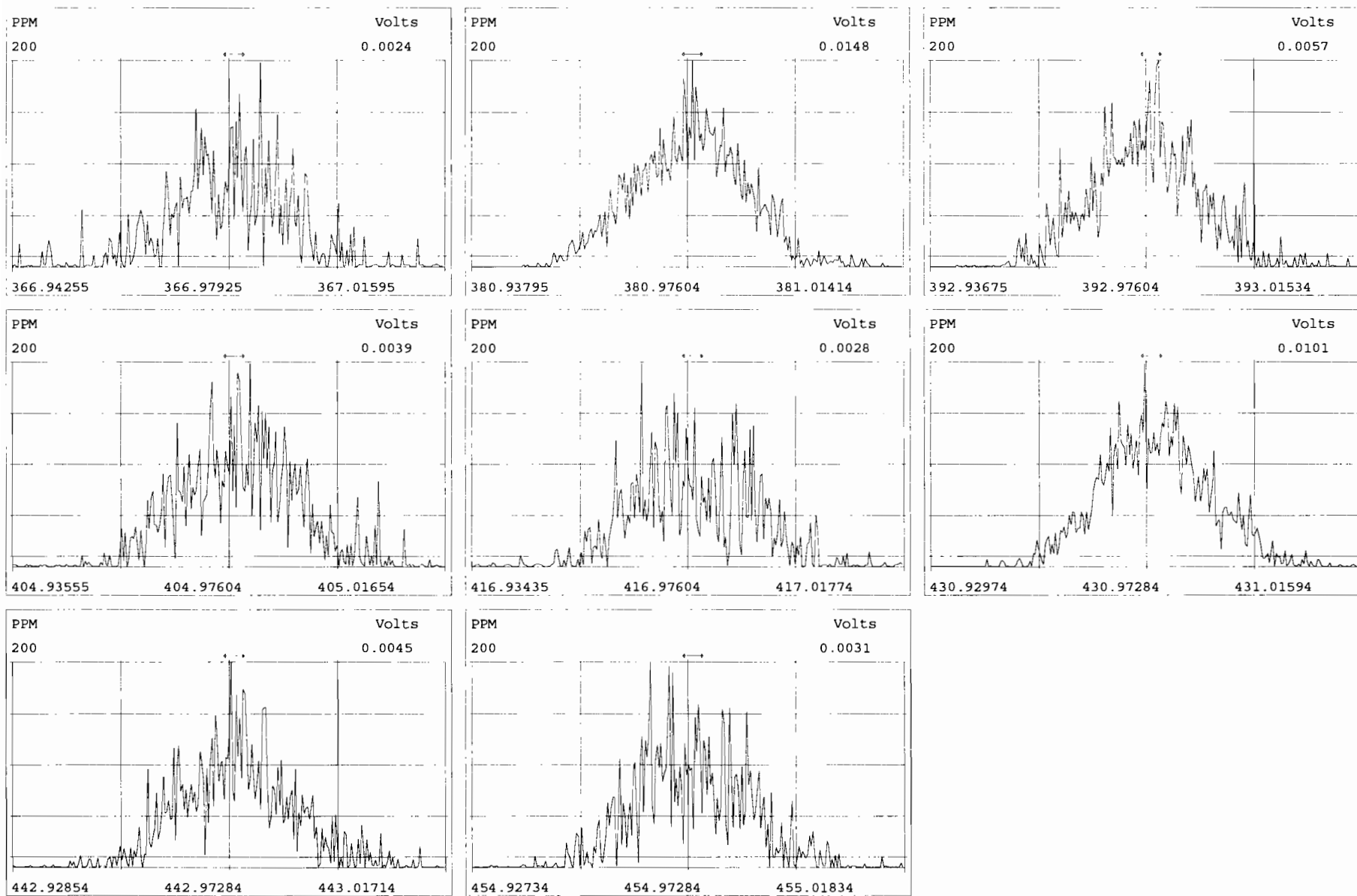






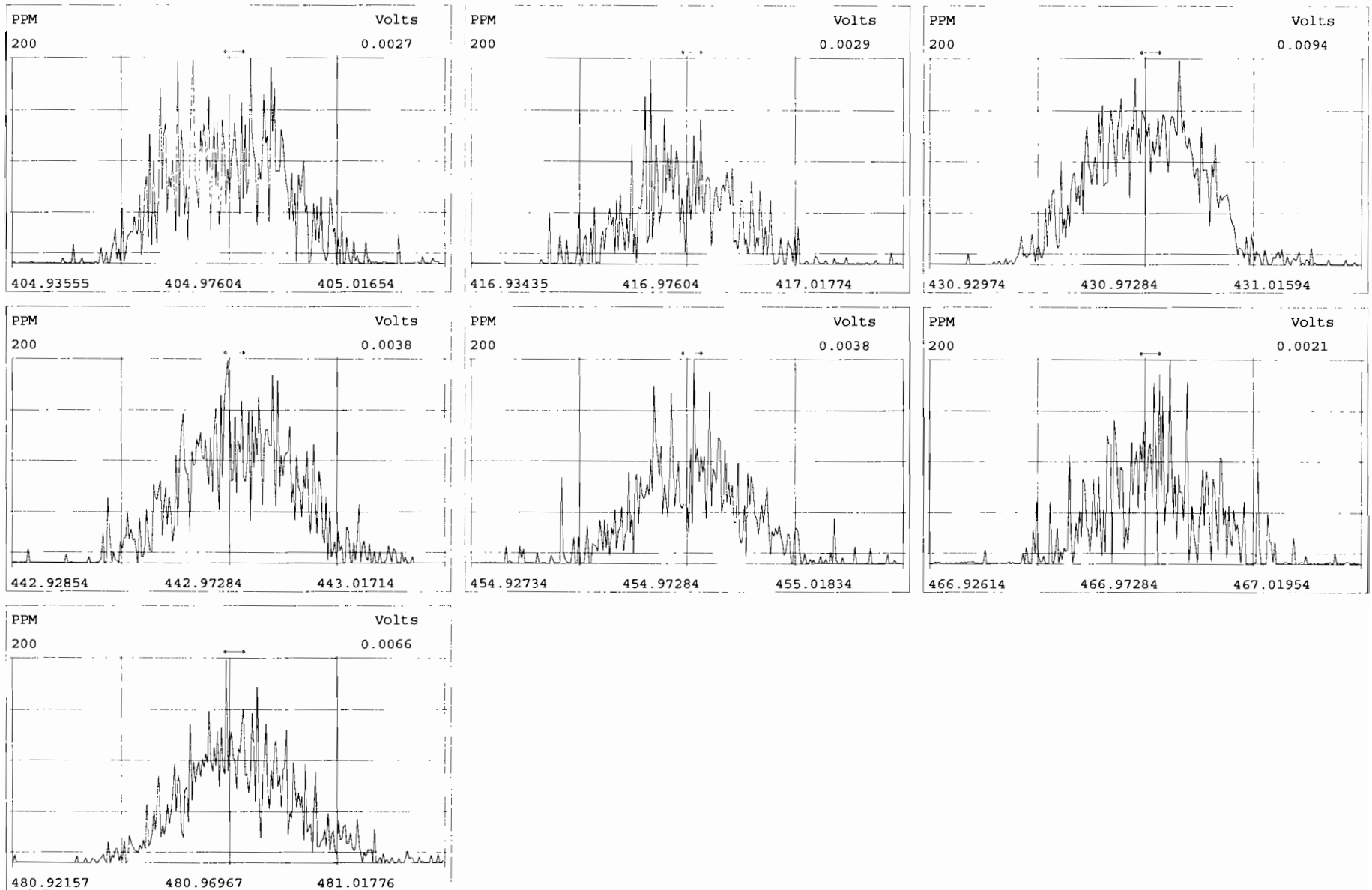
Peak Locate Examination: 5-DEC-2019:16:23 File:RES_CHECK

Experiment:OCDD_DB5 Function:3 Reference:PFK



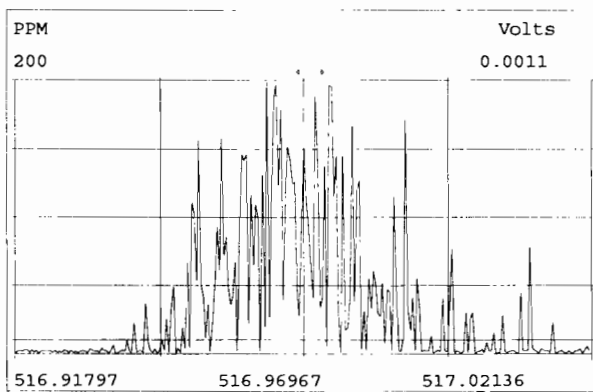
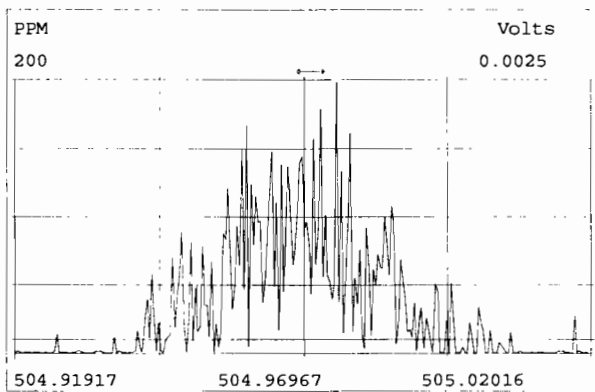
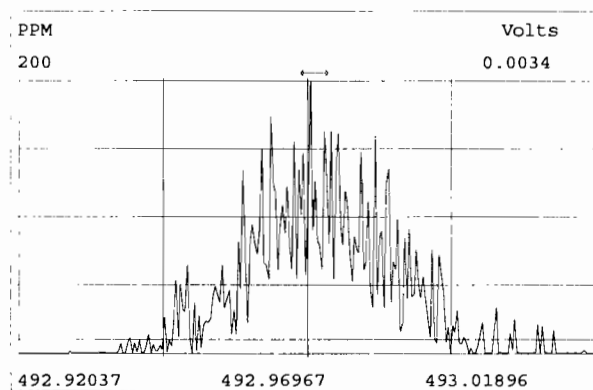
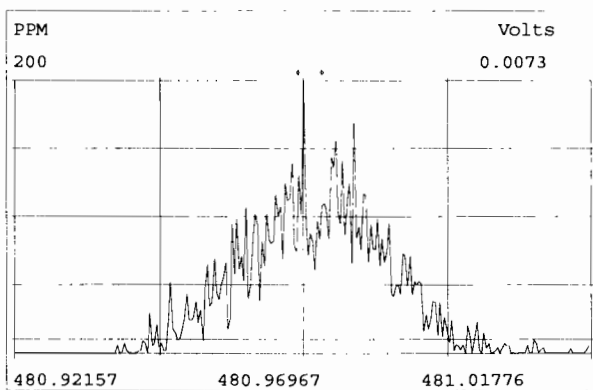
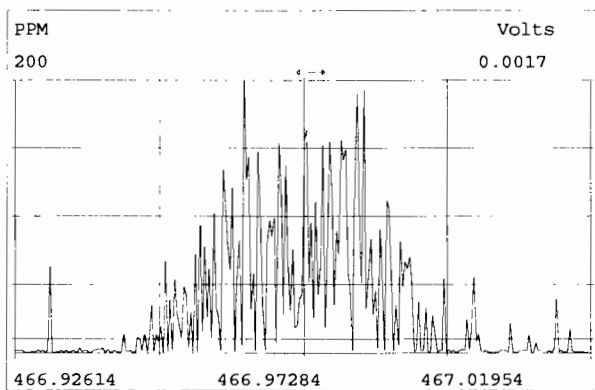
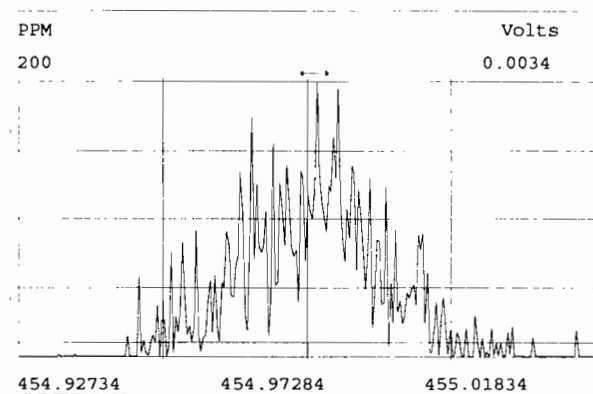
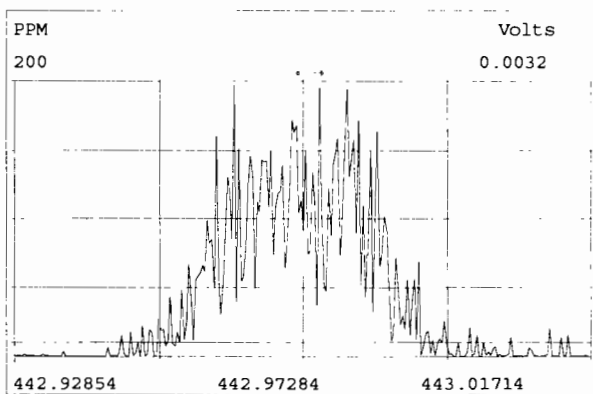
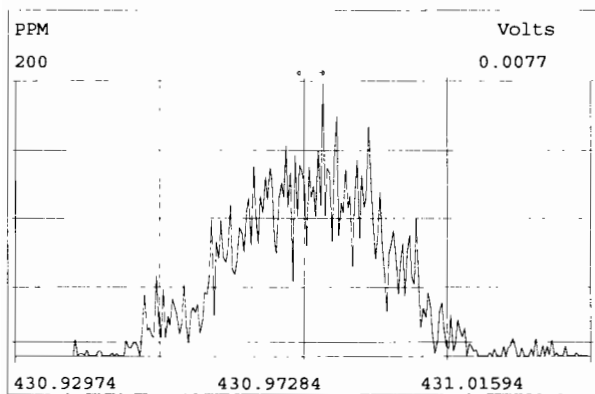
Peak Locate Examination: 5-DEC-2019:16:23 File:RES_CHECK

Experiment:OCDD_DB5 Function:4 Reference:PFK



Peak Locate Examination: 5-DEC-2019:16:23 File:RES_CHECK

Experiment:OCDD_DB5 Function:5 Reference:PFK



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST191212D2-1

Reviewed By: CT 12/13/14
Initials & Date

End Calibration ID: NA

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

	<u>Beg.</u>	<u>End</u>
Mass resolution \geq	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K 1614 1699 429 1613/1668/8280		
Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
GC Break <20%		<input type="checkbox"/> NA
<u>8280 CS1 End Standard:</u>		
- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		<input type="checkbox"/> NA

Comments:

Vista Analytical Laboratory - Injection Log Run file: 191212D2 Instrument ID: VG-7 GC Column ID: ZB-5MS

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
191212D2	1	ST191212D2-1	DB	13-DEC-19	00:56:17	ST191212D2-1	NA
191212D2	2	SOLVENT BLANK	DB	13-DEC-19	01:44:02	ST191212D2-1	NA
191212D2	3	1903828-01	DB	13-DEC-19	02:31:49	ST191212D2-1	NA
191212D2	4	1903828-02	DB	13-DEC-19	03:19:45	ST191212D2-1	NA
191212D2	5	1903828-03	DB	13-DEC-19	04:07:42	ST191212D2-1	NA
191212D2	6	1903828-06	DB	13-DEC-19	04:55:29	ST191212D2-1	NA
191212D2	7	1903828-07	DB	13-DEC-19	05:43:25	ST191212D2-1	NA
191212D2	8	1904021-01	DB	13-DEC-19	06:31:22	ST191212D2-1	NA
191212D2	9	1904021-02	DB	13-DEC-19	07:19:19	ST191212D2-1	NA
191212D2	10	1904021-03	DB	13-DEC-19	08:07:11	ST191212D2-1	NA
191212D2	11	1904021-04	DB	13-DEC-19	08:55:01	ST191212D2-1	NA
191212D2	12	1904021-05	DB	13-DEC-19	09:42:52	ST191212D2-1	NA
191212D2	13	1904021-06	DB	13-DEC-19	10:30:47	ST191212D2-1	NA
191212D2	14	1904021-07	DB	13-DEC-19	11:18:43	ST191212D2-1	NA

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory

Episode No.:

CCAL ID: ST191212D2-1

Contract No.:

SAS No.:

Initial Calibration Date: 10-9-19

Instrument ID: VG-7

GC Column ID: ZB-5MS

VER Data Filename: 191212D2 S#1 Analysis Date: 13-DEC-19 Time: 00:56:17

NATIVE ANALYTES	M/Z'S	ION	QC	Pass	CONC. FOUND	CONC. RANGE (3) (ng/mL)
	FORMING RATIO (1)	ABUND. RATIO	LIMITS (2)			
2,3,7,8-TCDD	M/M+2	0.85	0.65-0.89	y	10.6	7.8 - 12.9 8.2 - 12.3 (4)
1,2,3,7,8-PeCDD	M/M+2	0.61	0.54-0.72	y	52.8	39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.28	1.05-1.43	y	50.1	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.20	1.05-1.43	y	53.4	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.26	1.05-1.43	y	53.4	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.04	0.88-1.20	y	51.6	43.0 - 58.0
OCDD	M+2/M+4	0.88	0.76-1.02	y	104	79.0 - 126.0
2,3,7,8-TCDF	M/M+2	0.77	0.65-0.89	y	9.63	8.4 - 12.0 8.6 - 11.6 (4)
1,2,3,7,8-PeCDF	M+2/M+4	1.61	1.32-1.78	y	51.9	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.61	1.32-1.78	y	51.6	41.0 - 61.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.21	1.05-1.43	y	49.2	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.23	1.05-1.43	y	48.0	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.17	1.05-1.43	y	48.4	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.26	1.05-1.43	y	49.0	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.01	0.88-1.20	y	46.4	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.01	0.88-1.20	y	46.3	43.0 - 58.0
OCDF	M+2/M+4	0.88	0.76-1.02	y	96.4	63.0 - 159.0

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(3) Contract-required concentration range as specified in Table 6, Method 1613.

(4) Contract-required concentration range as specified in Table 6a, Method 1613, for tetras only.

Analyst: DBDate: 12/13/19

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 10-9-19

Instrument ID: VG-7

GC Column ID: ZB-5MS

VER Data Filename: 191212D2 S#1 Analysis Date: 13-DEC-19 Time: 00:56:17

LABELLED COMPOUNDS	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	Pass	CONC. FOUND	CONC. RANGE (ng/mL)
13C-2,3,7,8-TCDD	M/M+2	0.77	0.65-0.89	y	102	82.0 - 121.0
13C-1,2,3,7,8-PeCDD	M/M+2	0.64	0.54-0.72	y	91.5	62.0 - 160.0
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.29	1.05-1.43	y	103	85.0 - 117.0
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	89.2	85.0 - 118.0
13C-1,2,3,7,8,9-HxCDD	M+2/M+4	1.26	1.05-1.43	y	95.0	85.0 - 118.0
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.07	0.88-1.20	y	96.2	72.0 - 138.0
13C-OCDD	M/M+2	0.90	0.76-1.02	y	215	96.0 - 415.0
13C-2,3,7,8-TCDF	M+2/M+4	0.79	0.65-0.89	y	99.5	71.0 - 140.0
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.60	1.32-1.78	y	91.9	76.0 - 130.0
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.62	1.32-1.78	y	90.3	77.0 - 130.0
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.53	0.43-0.59	y	101	76.0 - 131.0
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	95.4	70.0 - 143.0
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.53	0.43-0.59	y	105	73.0 - 137.0
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.53	0.43-0.59	y	109	74.0 - 135.0
13C-1,2,3,4,6,7,8-HpCDF	M+2/M+4	0.43	0.37-0.51	y	101	78.0 - 129.0
13C-1,2,3,4,7,8,9-HpCDF	M+2/M+4	0.43	0.37-0.51	y	108	77.0 - 129.0
13C-OCDF	M+2/M+4	0.88	0.76-1.02	y	232	96.0 - 415.0
CLEANUP STANDARD (3)						
37Cl-2,3,7,8-TCDD					9.47	7.9 - 12.7

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified

(3) No ion abundance ratio; report concentration found.

Analyst: DB

Date: 12/13/19

FORM 5

PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Instrument ID: VG-7 Initial Calibration Date: 10-9-19

RT Window Data Filename: 191212D2 S#1 Analysis Date: 13-DEC-19 Time: 00:56:17

ZB-5MS IS Data Filename: 191212D2 S#1 Analysis Date: 13-DEC-19 Time: 00:56:17

DB_225 IS Data Filename: Analysis Date: Time:

ZB-5MS RT WINDOW DEFINING STANDARDS RESULTS

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	22:37	1,3,6,8-TCDF (F)	20:29
1,2,8,9-TCDD (L)	26:55	1,2,8,9-TCDF (L)	27:04
1,2,4,7,9-PeCDD (F)	28:32	1,3,4,6,8-PeCDF (F)	27:02
1,2,3,8,9-PeCDD (L)	30:56	1,2,3,8,9-PeCDF (L)	31:11
1,2,4,6,7,9-HxCDD (F)	32:22	1,2,3,4,6,8-HxCDF (F)	31:50
1,2,3,7,8,9-HxCDD (L)	34:17	1,2,3,7,8,9-HxCDF (L)	34:40
1,2,3,4,6,7,9-HpCDD (F)	36:53	1,2,3,4,6,7,8-HpCDF (F)	36:29
1,2,3,4,6,7,8-HpCDD (L)	37:45	1,2,3,4,7,8,9-HpCDF (L)	38:17

(F) = First eluting isomer (ZB-5MS); (L) = Last eluting isomer (ZB-5MS).

=====

ISOMER SPECIFICITY (IS) TEST STANDARD RESULTS

% VALLEY HEIGHT
BETWEEN
COMPARED PEAKS (1)

<25%

Analyst: DBDate: 12/13/19

(1) To meet contract requirements, %Valley Height Between Compared Peaks shall not exceed 25% (section 15.4.2.2, Method 1613).

FORM 6A
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 10-9-19

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 191212D2 #1 Analysis Date: 13-DEC-19 Time: 00:56:17

Compounds Using 13C-1234-TCDD as RT Internal Standard

NATIVE ANALYTES	RETENTION TIME		RRT	QC LIMITS (1)
	REFERENCE			
2,3,7,8-TCDD	13C-2,3,7,8-TCDD		1.001	0.999-1.002
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD		1.000	0.999-1.002
2,3,7,8-TCDF	13C-2,3,7,8-TCDF		1.001	0.999-1.003
1,2,3,7,8-PeCDF	13C-1,2,3,7,8-PeCDF		1.000	0.999-1.002
2,3,4,7,8-PeCDF	13C-2,3,4,7,8-PeCDF		1.000	0.999-1.002
LABELED COMPOUNDS				
13C-2,3,7,8-TCDD	13C-1,2,3,4-TCDD		1.022	0.976-1.043
13C-1,2,3,7,8-PeCDD	13C-1,2,3,4-TCDD		1.200	1.000-1.567
13C-2,3,7,8-TCDF	13C-1,2,3,4-TCDD		0.991	0.923-1.103
13C-1,2,3,7,8-PeCDF	13C-1,2,3,4-TCDD		1.154	1.000-1.425
13C-2,3,4,7,8-PeCDF	13C-1,2,3,4-TCDD		1.189	1.011-1.526
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD		1.023	0.989-1.052

Analyst: DB

Date: 12/13/19

FORM 6B
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 10-9-19

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 191212D2 #1 Analysis Date: 13-DEC-19 Time: 00:56:17

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
1,2,3,4,7,8-HxCDF	13C-1,2,3,4,7,8-HxCDF	1.000	0.999-1.001
1,2,3,6,7,8-HxCDF	13C-1,2,3,6,7,8-HxCDF	1.000	0.997-1.005
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF	1.000	0.999-1.001
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF	1.001	0.999-1.001
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD	1.000	0.999-1.001
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.001	0.998-1.004
1,2,3,7,8,9-HxCDD	13C-1,2,3,7,8,9-HxCDD	1.000	0.998-1.004
1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,7,8-HpCDF	1.000	0.999-1.001
1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,7,8-HpCDD	1.000	0.999-1.001
1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,7,8,9-HpCDF	1.000	0.999-1.001
OCDD	13C-OCDD	1.000	0.999-1.001
OCDF	13C-OCDF	1.000	0.999-1.001

LABELLED COMPOUNDS

13C-1,2,3,4,7,8-HxCDF	13C-1,2,3,4,6,9-HxCDF	0.988	0.975-1.001
13C-1,2,3,6,7,8-HxCDF	13C-1,2,3,4,6,9-HxCDF	0.991	0.979-1.005
13C-2,3,4,6,7,8-HxCDF	13C-1,2,3,4,6,9-HxCDF	1.009	1.001-1.020
13C-1,2,3,7,8,9-HxCDF	13C-1,2,3,4,6,9-HxCDF	1.037	1.002-1.072
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.014	1.002-1.026
13C-1,2,3,6,7,8-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.017	1.007-1.029
13C-1,2,3,7,8,9-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.026	1.014-1.038
13C-1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,9-HxCDF	1.092	1.069-1.111
13C-1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,6,9-HxCDF	1.146	1.098-1.192
13C-1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,9-HxCDF	1.130	1.117-1.141
13C-OCDD	13C-1,2,3,4,6,9-HxCDF	1.227	1.085-1.365
13C-OCDF	13C-1,2,3,4,6,9-HxCDF	1.234	1.091-1.371

Analyst: DB

Date: 12/13/19

Client ID: 1613 CS3 19C2204
Lab ID: ST191212D2-1

Filename: 191212D2 S:1 Acq:13-DEC-19 00:56:17
GC Column ID: ZB-5MS ICal: 1613VG7-10-9-19 wt/vol: 1.000

ConCal: ST191212D2-1
EndCAL: NA

Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	1.17e+06	0.85 y	0.91	26:04	10.619		* 2.5		*	Total Tetra-Dioxins	76.9	77.5	*	*	
1,2,3,7,8-PeCDD	4.22e+06	0.61 y	0.90	30:35	52.799		* 2.5		*	Total Penta-Dioxins	202	203	*	*	
1,2,3,4,7,8-HxCDD	4.67e+06	1.28 y	1.10	33:53	50.109		* 2.5		*	Total Hexa-Dioxins	226	228	*	*	
1,2,3,6,7,8-HxCDD	4.91e+06	1.20 y	0.94	33:59	53.381		* 2.5		*	Total Hepta-Dioxins	118	120	*	*	
1,2,3,7,8,9-HxCDD	5.06e+06	1.26 y	0.96	34:17	53.437		* 2.5		*	Total Tetra-Furans	37.1	37.9	*	*	
1,2,3,4,6,7,8-HpCDD	4.08e+06	1.04 y	0.98	37:45	51.562		* 2.5		*	Total Penta-Furans	231.17	232.60	*	*	
OCDD	7.98e+06	0.88 y	0.96	41:00	104.10		* 2.5		*	Total Hexa-Furans	254	255	*	*	
										Total Hepta-Furans	92.9	93.9	*	*	
2,3,7,8-TCDF	1.64e+06	0.77 y	0.95	25:16	9.6274		* 2.5		*						
1,2,3,7,8-PeCDF	6.82e+06	1.61 y	0.96	29:24	51.907		* 2.5		*						
2,3,4,7,8-PeCDF	6.98e+06	1.61 y	1.01	30:18	51.641		* 2.5		*						
1,2,3,4,7,8-HxCDF	6.23e+06	1.21 y	1.18	32:60	49.223		* 2.5		*						
1,2,3,6,7,8-HxCDF	6.51e+06	1.23 y	1.07	33:07	48.047		* 2.5		*						
2,3,4,6,7,8-HxCDF	6.93e+06	1.17 y	1.11	33:43	48.375		* 2.5		*						
1,2,3,7,8,9-HxCDF	6.01e+06	1.26 y	1.06	34:40	48.976		* 2.5		*						
1,2,3,4,6,7,8-HpCDF	5.15e+06	1.01 y	1.13	36:29	46.412		* 2.5		*						
1,2,3,4,7,8,9-HpCDF	4.78e+06	1.01 y	1.28	38:17	46.318		* 2.5		*						
OCDF	9.37e+06	0.88 y	0.95	41:13	96.377		* 2.5		*						
IS	13C-2,3,7,8-TCDD	1.22e+07	0.77 y	1.10	26:02	101.50				Rec	Qual				
IS	13C-1,2,3,7,8-PeCDD	8.85e+06	0.64 y	0.88	30:34	91.529				102					
IS	13C-1,2,3,4,7,8-HxCDD	8.46e+06	1.29 y	0.64	33:52	102.53				91.5					
IS	13C-1,2,3,6,7,8-HxCDD	9.80e+06	1.25 y	0.86	33:58	89.165				103					
IS	13C-1,2,3,7,8,9-HxCDD	9.84e+06	1.26 y	0.81	34:16	94.967				89.2					
IS	13C-1,2,3,4,6,7,8-HpCDD	8.09e+06	1.07 y	0.65	37:44	96.229				95.0					
IS	13C-OCDD	1.60e+07	0.90 y	0.58	40:59	214.88				96.2					
IS	13C-2,3,7,8-TCDF	1.79e+07	0.79 y	1.03	25:15	99.545				107					
IS	13C-1,2,3,7,8-PeCDF	1.37e+07	1.60 y	0.85	29:24	91.901				99.5					
IS	13C-2,3,4,7,8-PeCDF	1.33e+07	1.62 y	0.85	30:18	90.334				91.9					
IS	13C-1,2,3,4,7,8-HxCDF	1.07e+07	0.53 y	0.83	32:59	100.58				90.3					
IS	13C-1,2,3,6,7,8-HxCDF	1.27e+07	0.52 y	1.03	33:06	95.403				101					
IS	13C-2,3,4,6,7,8-HxCDF	1.29e+07	0.53 y	0.95	33:42	105.05				95.4					
IS	13C-1,2,3,7,8,9-HxCDF	1.16e+07	0.53 y	0.83	34:39	108.74				105					
IS	13C-1,2,3,4,6,7,8-HpCDF	9.85e+06	0.43 y	0.76	36:28	101.16				109					
IS	13C-1,2,3,4,7,8,9-HpCDF	8.06e+06	0.43 y	0.58	38:16	107.95				101					
IS	13C-OCDF	2.05e+07	0.88 y	0.69	41:13	231.88				108					
C/Up	37Cl-2,3,7,8-TCDD	1.24e+06		1.20	26:03	9.4729				116					
RS/RT	13C-1,2,3,4-TCDD	1.10e+07	0.79 y	1.00	25:28	100.00									
RS	13C-1,2,3,4-TCDF	1.74e+07	0.80 y	1.00	24:01	100.00									
RS/RT	13C-1,2,3,4,6,9-HxCDF	1.28e+07	0.50 y	1.00	33:24	100.00									

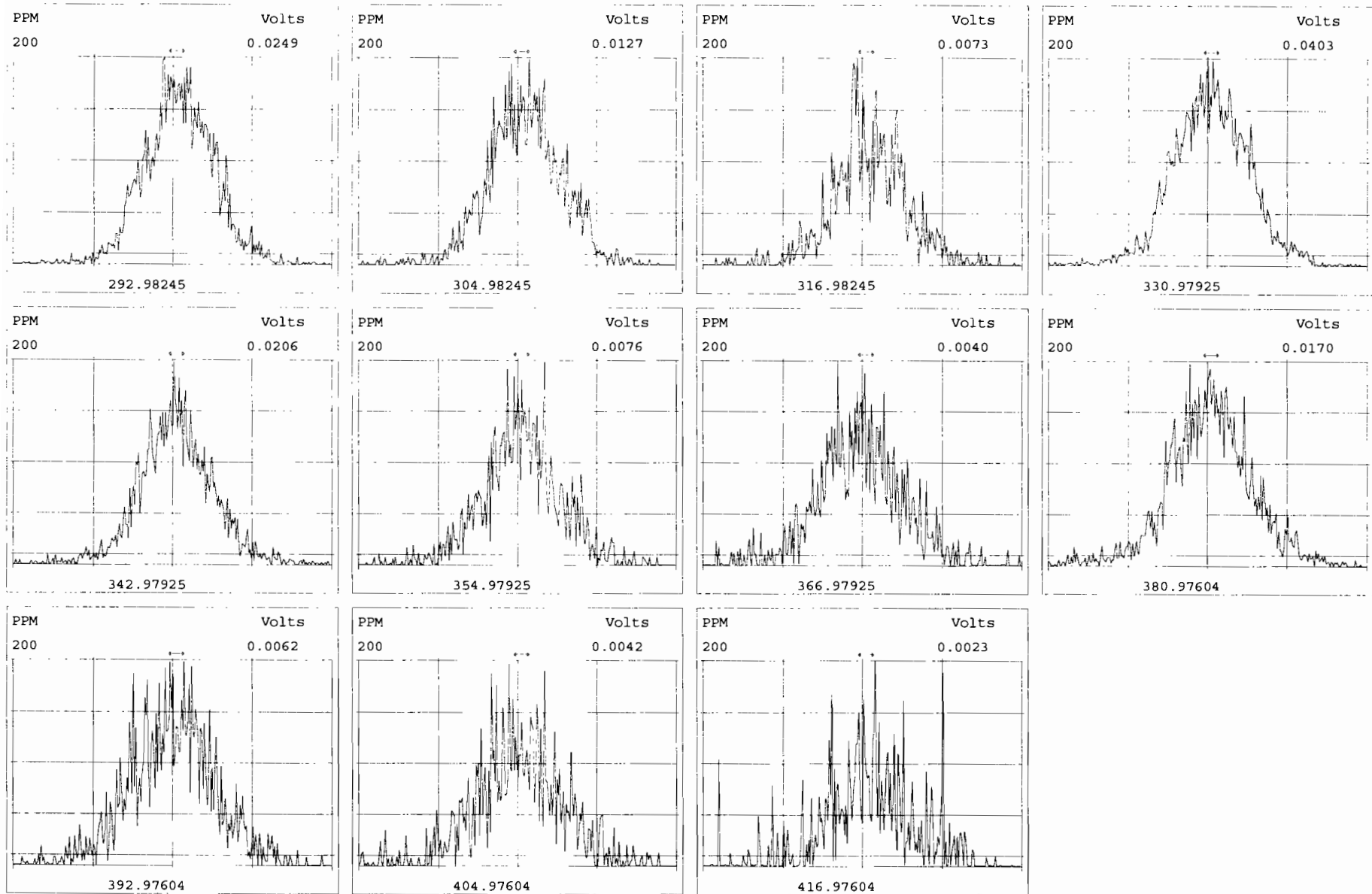
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by Analyst: DB by Analyst: CT
Date: 12/13/19 Date: 12/13/19

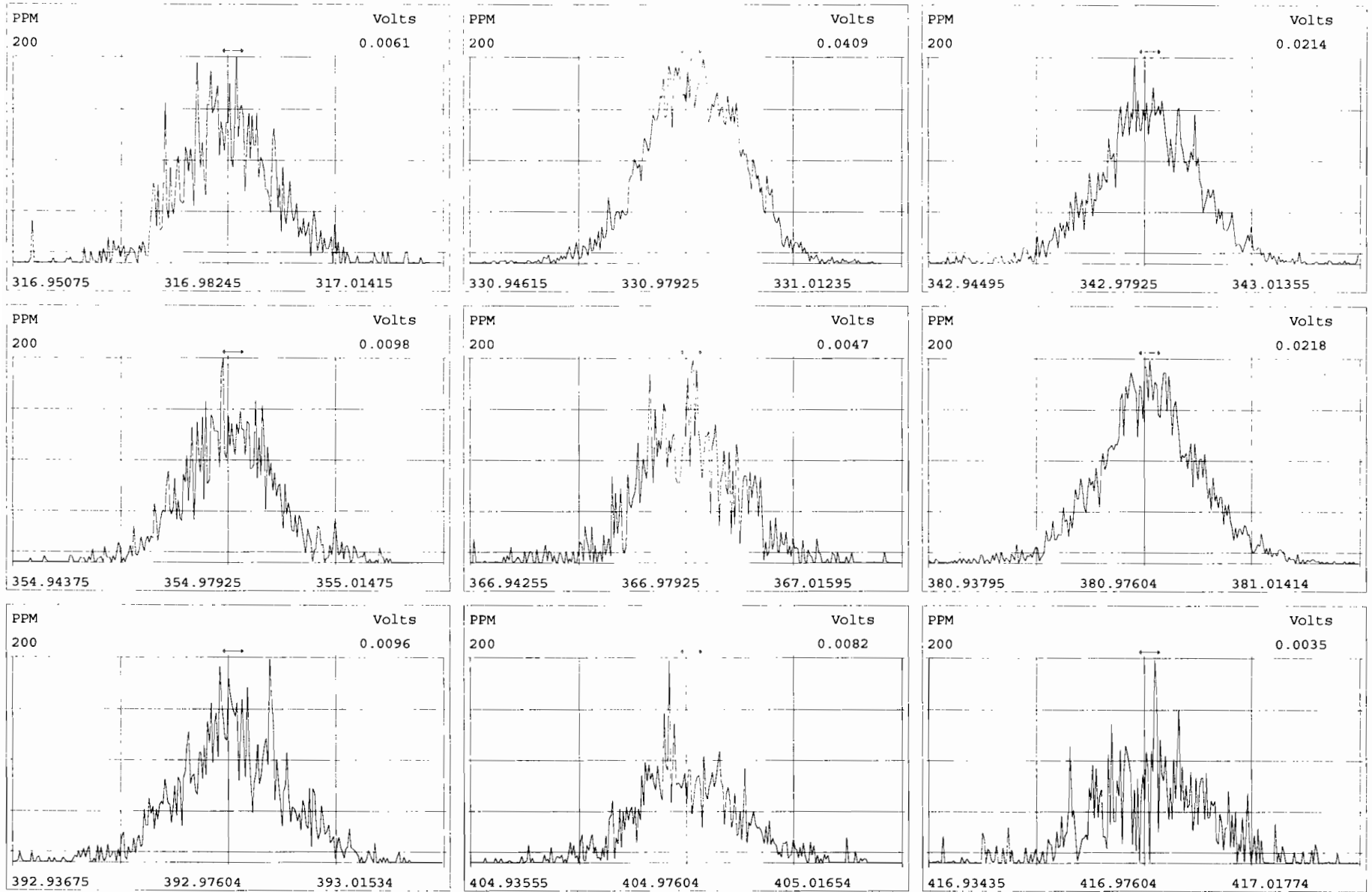
Vista Analytical Laboratory - Injection Log Run file: 191212D2 Instrument ID: VG-7 GC Column ID: ZB-5MS

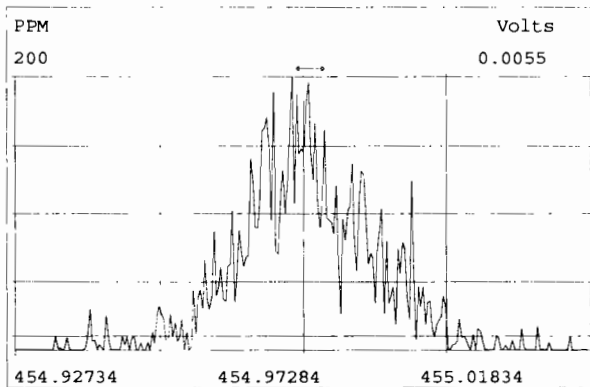
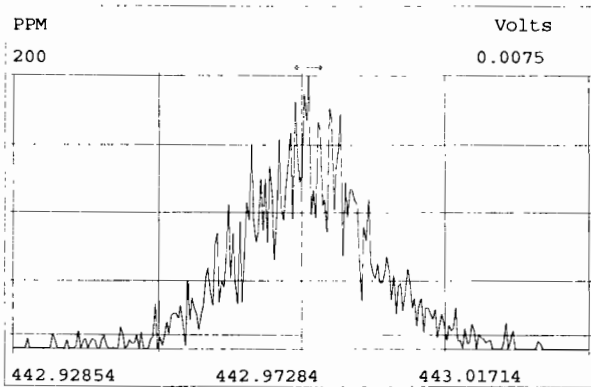
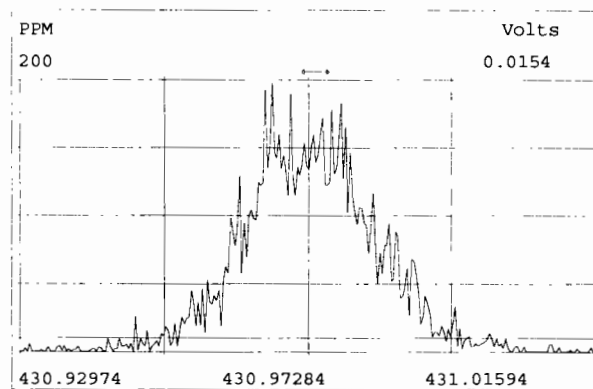
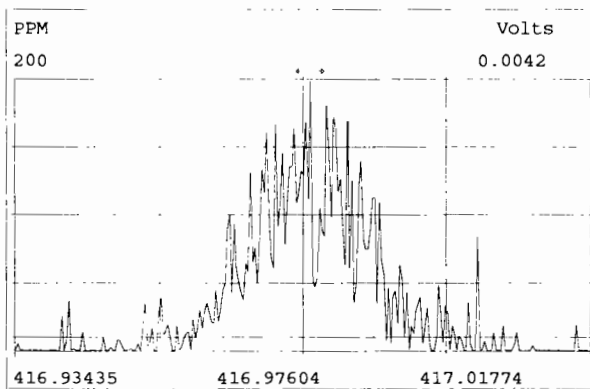
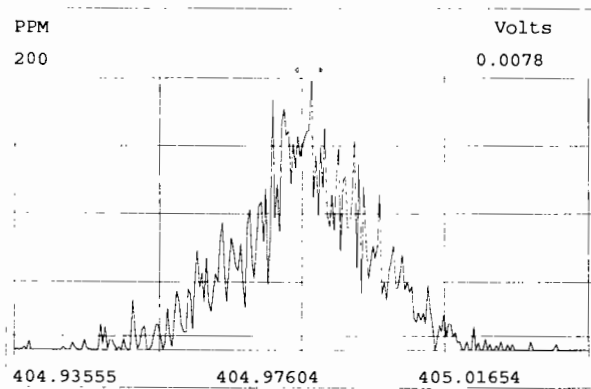
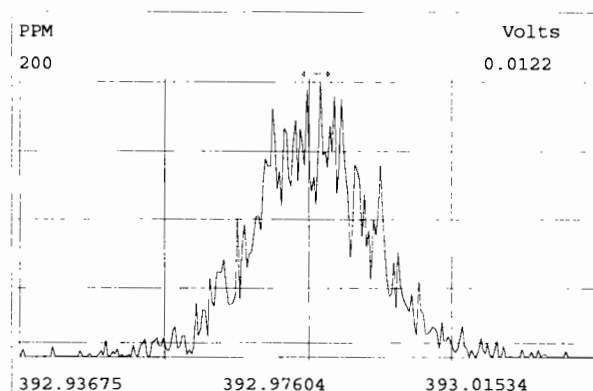
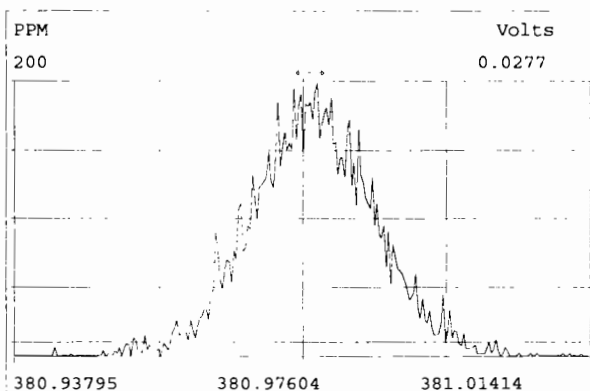
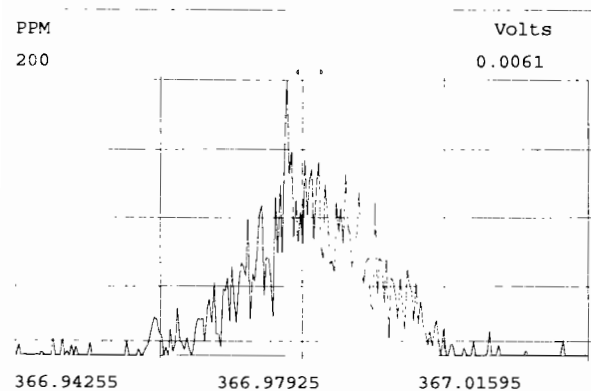
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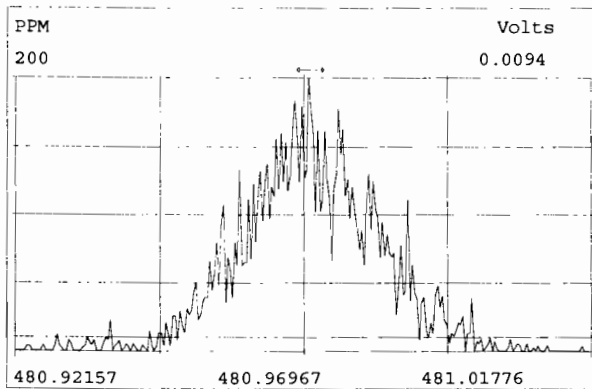
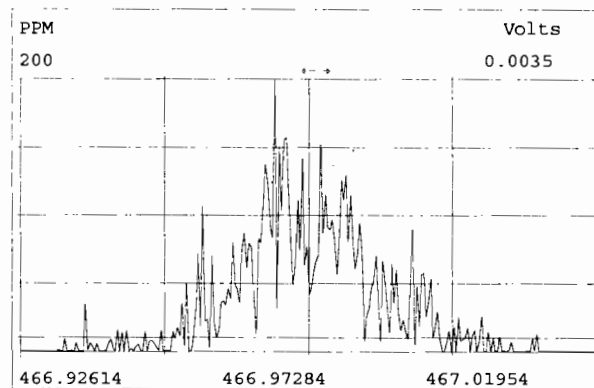
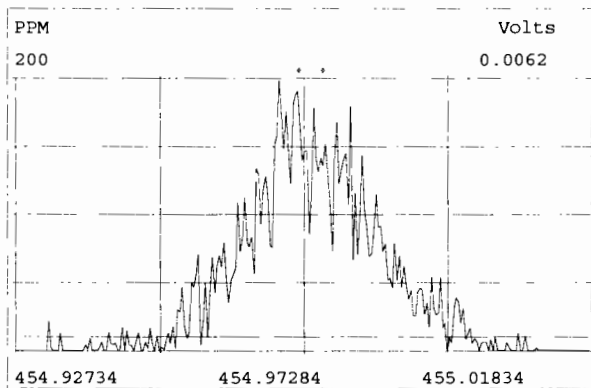
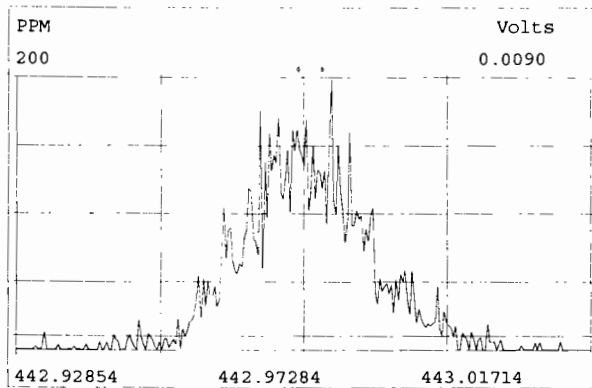
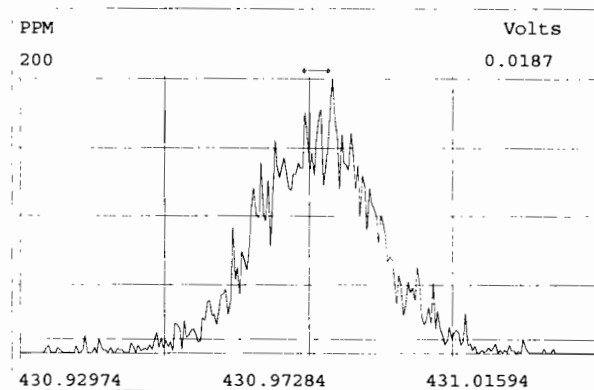
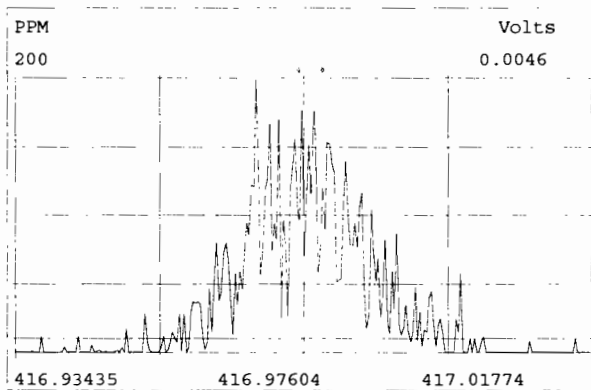
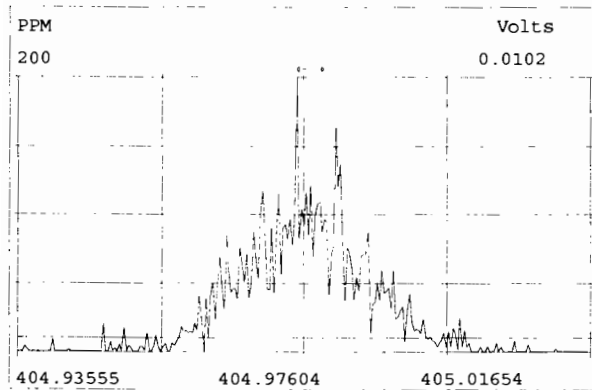
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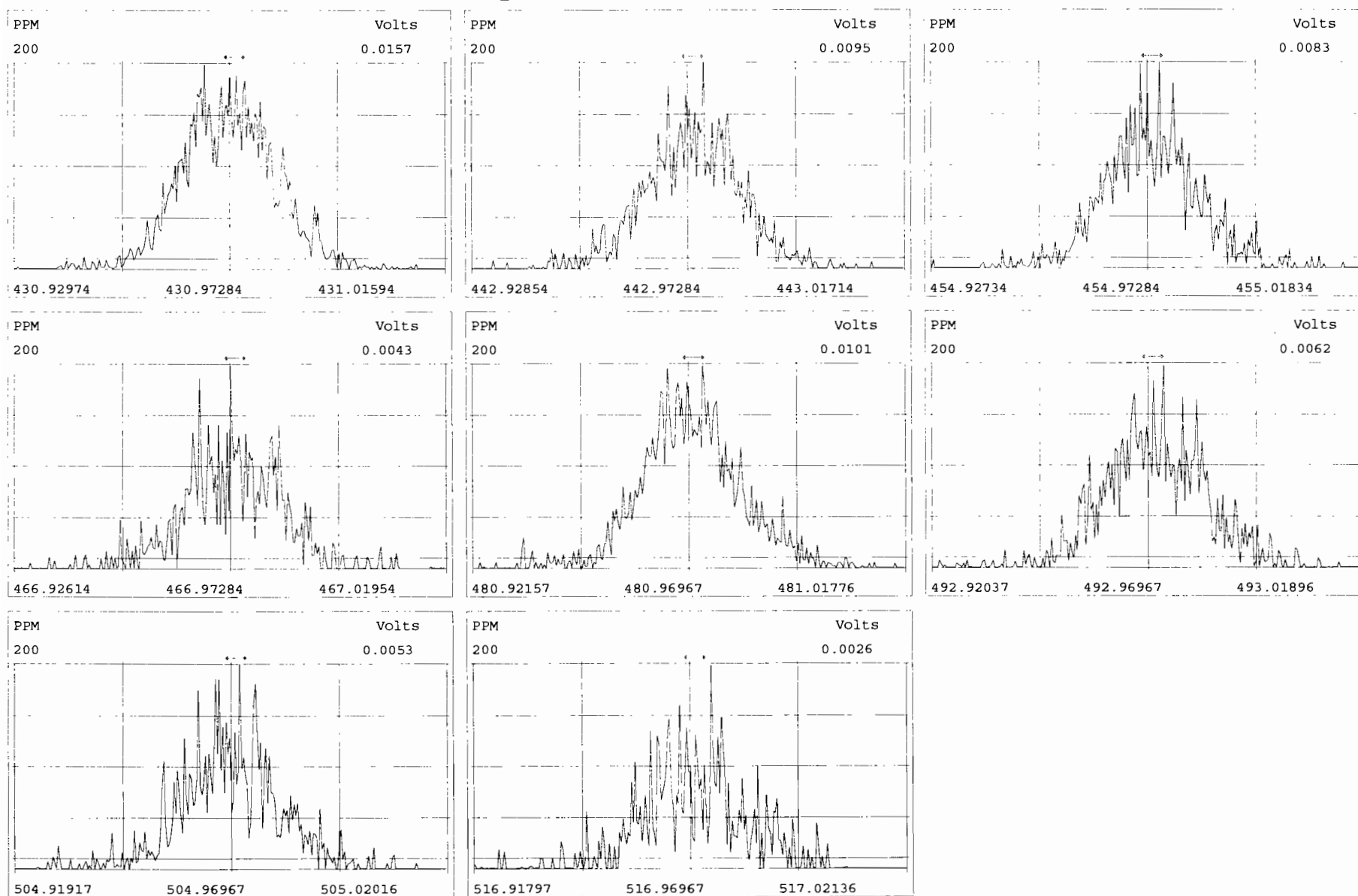
Experiment:OCDD_DB5 Function:1 Reference:PFK



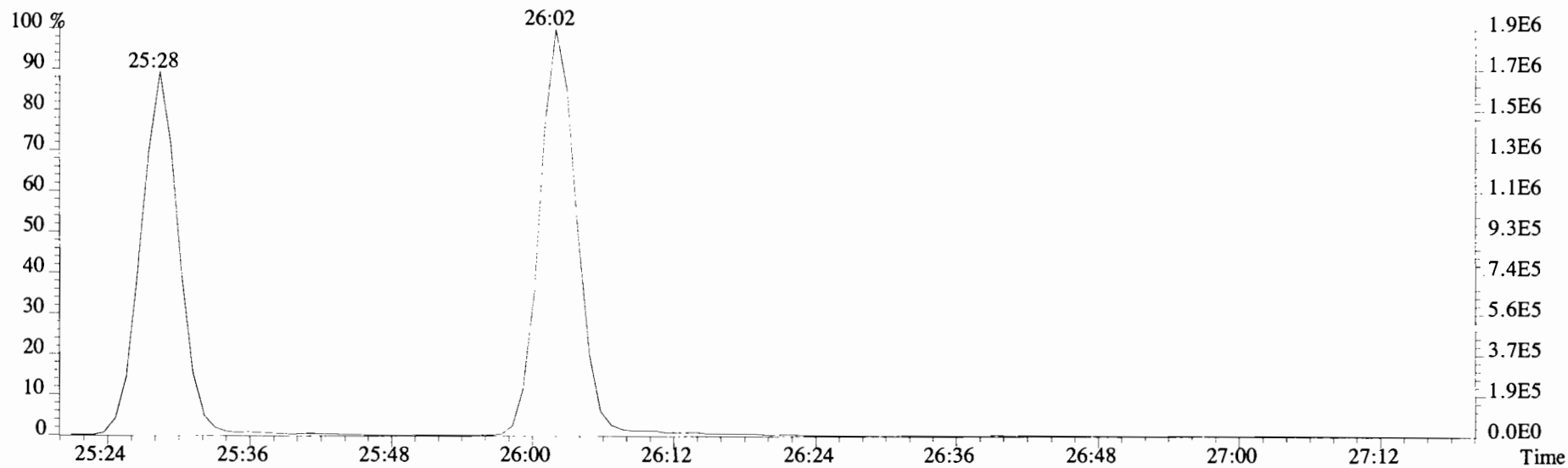
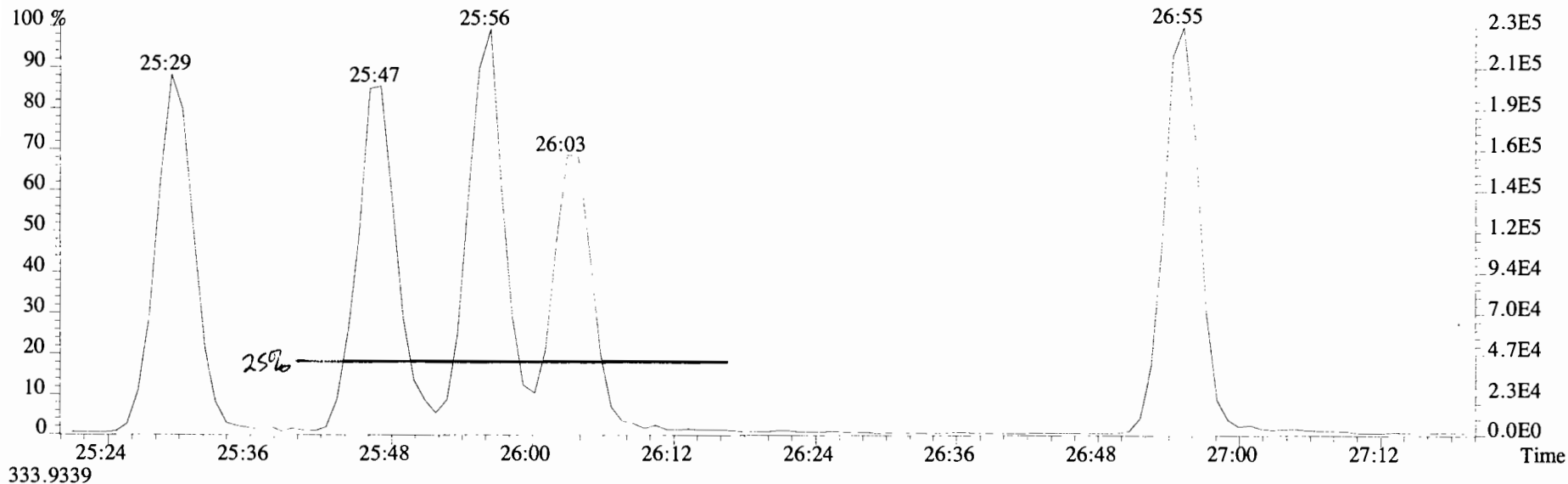




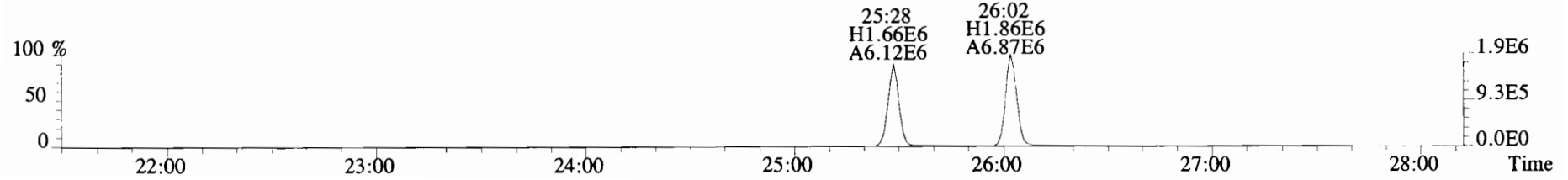
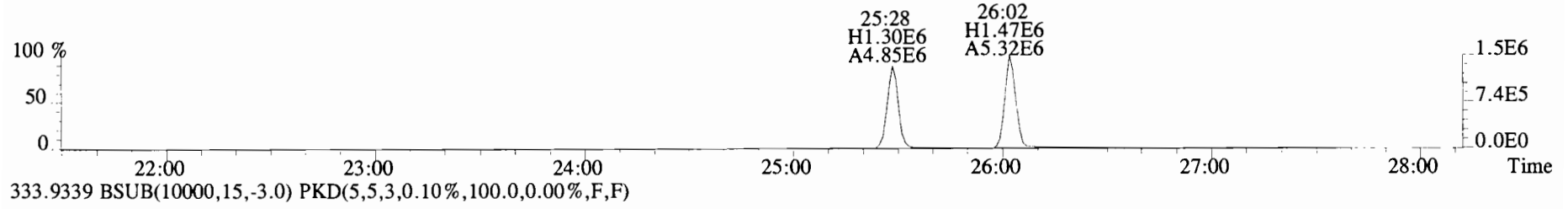
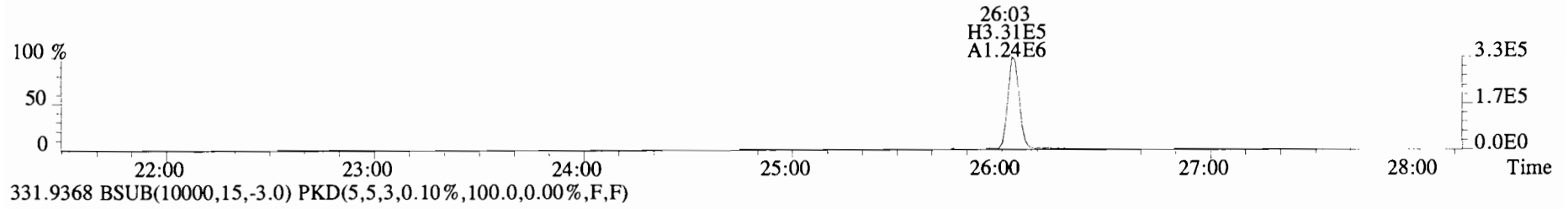
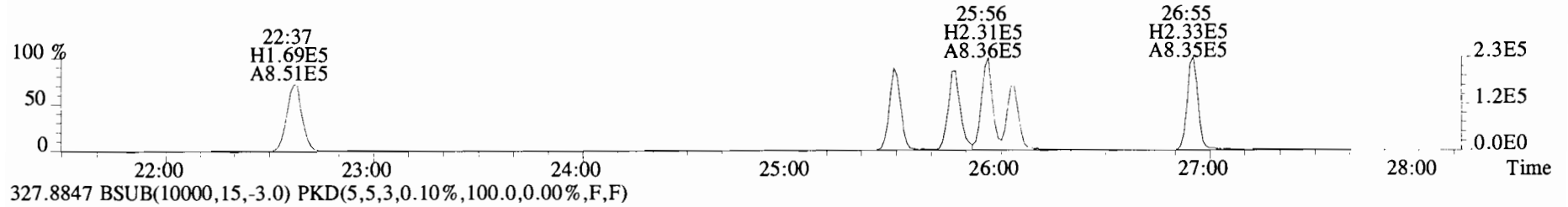
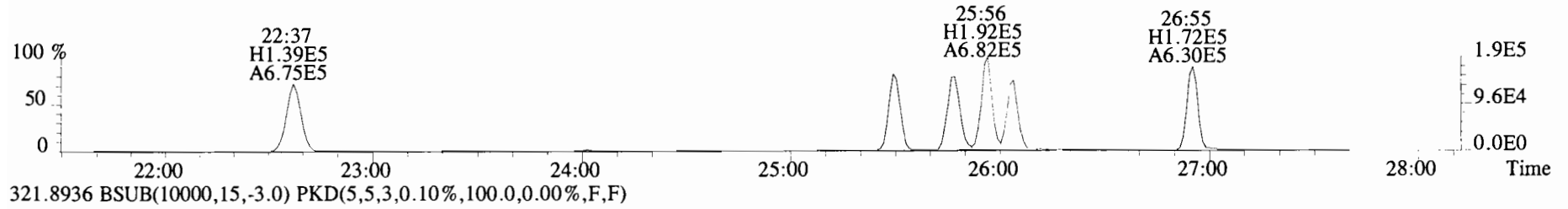




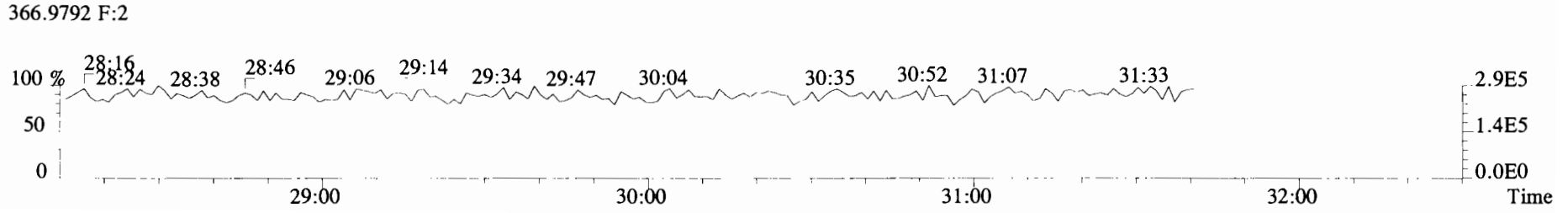
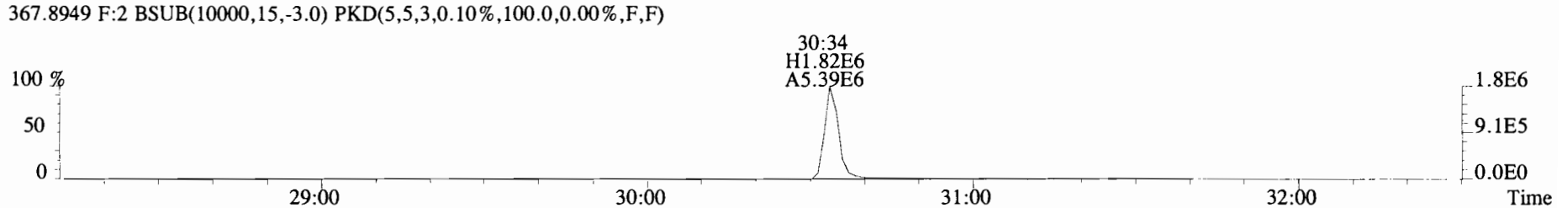
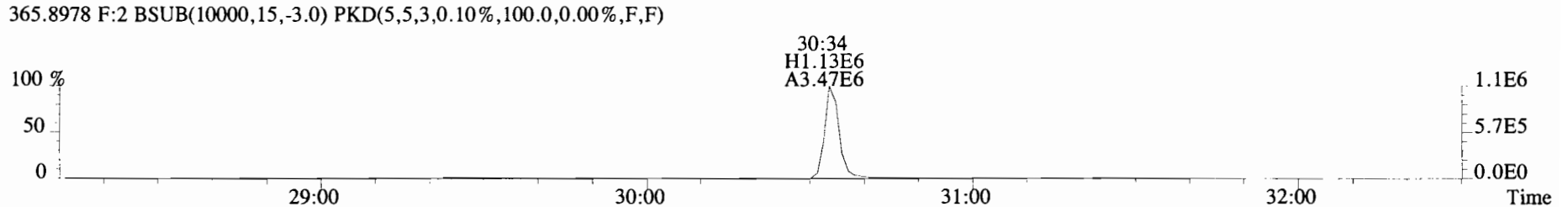
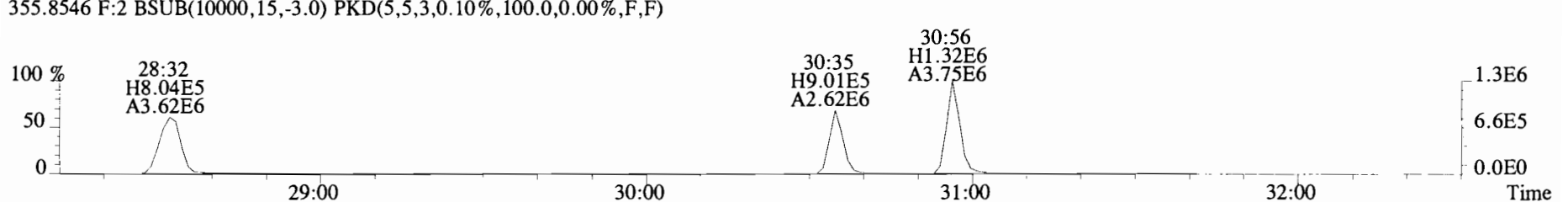
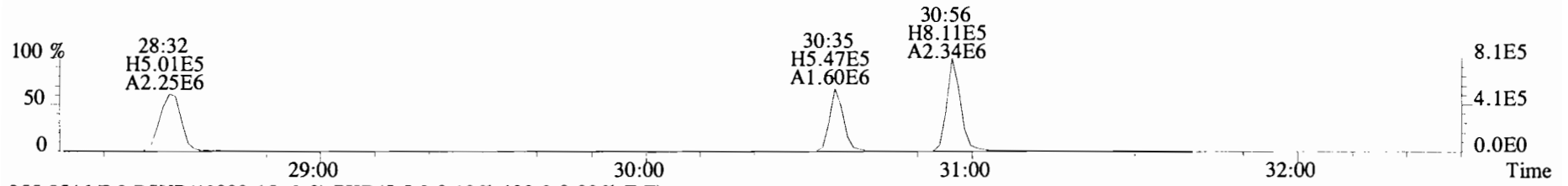
File:191212D2 #1-492 Acq:13-DEC-2019 00:56:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191212D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
321.8936



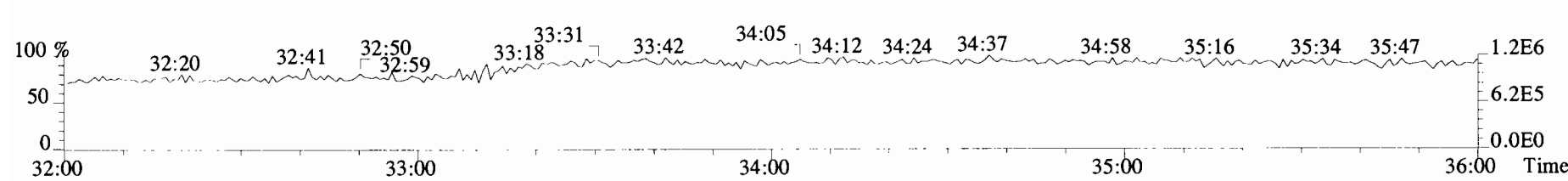
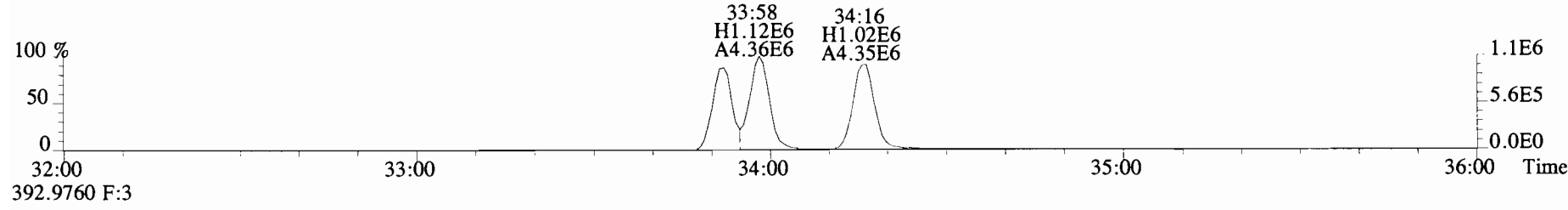
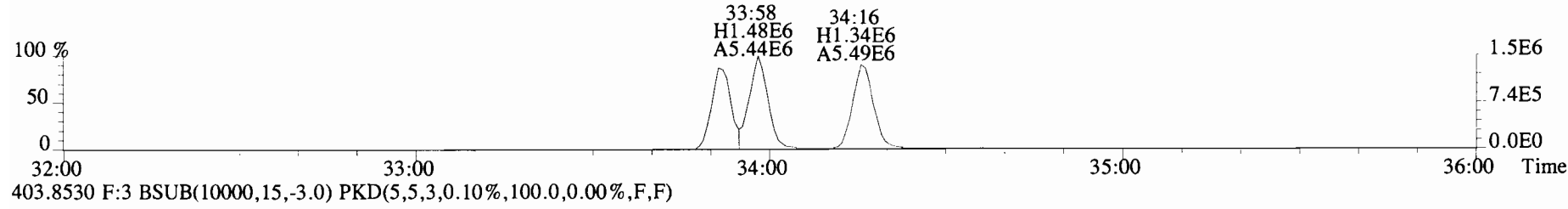
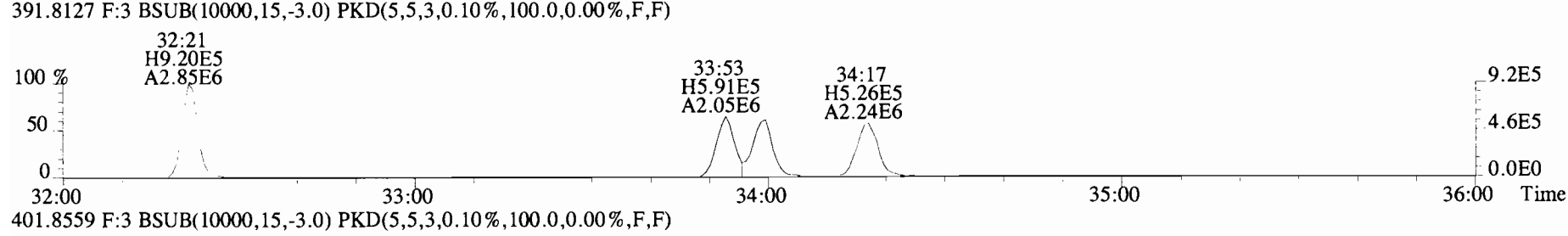
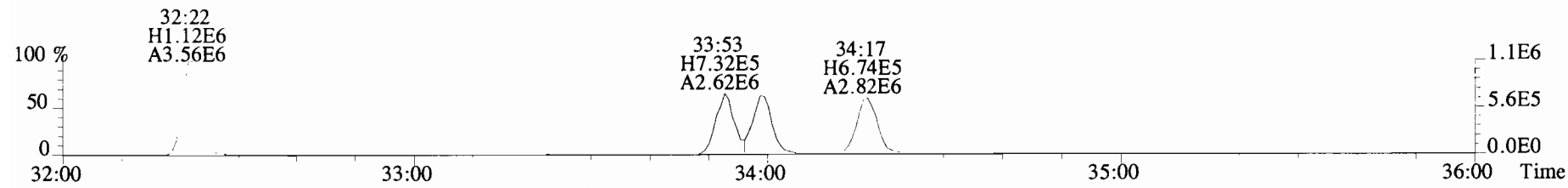
File:191212D2 #1-492 Acq:13-DEC-2019 00:56:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191212D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
319.8965 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



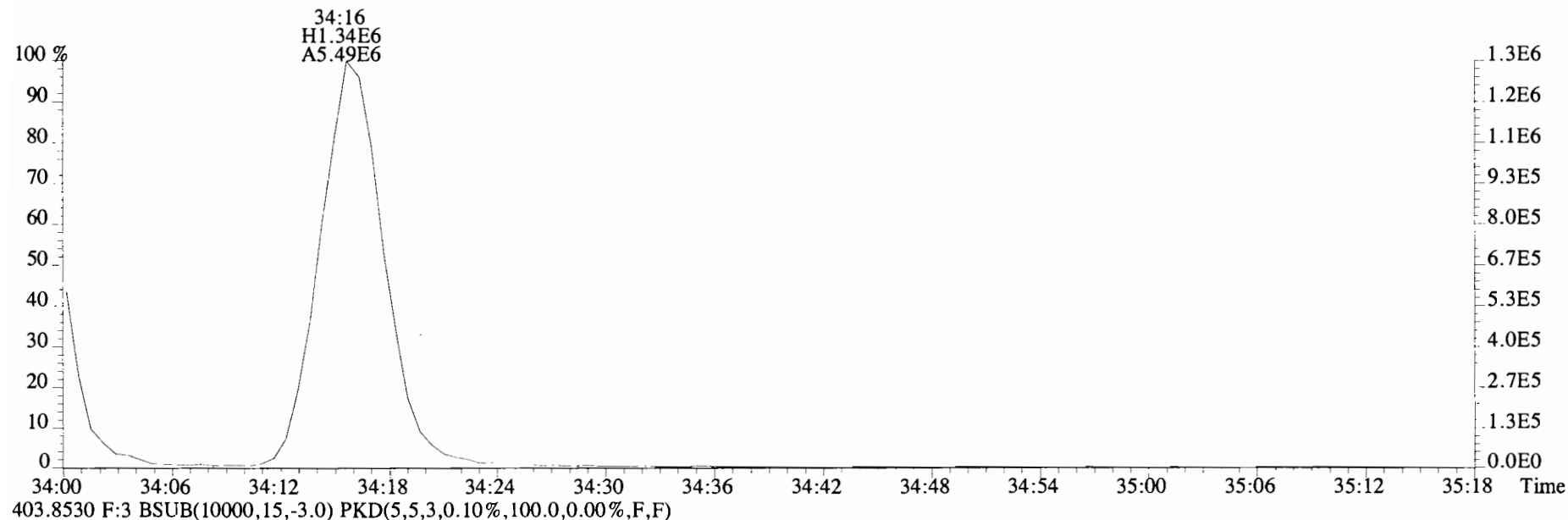
File:191212D2 #1-211 Acq:13-DEC-2019 00:56:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191212D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
353.8576 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



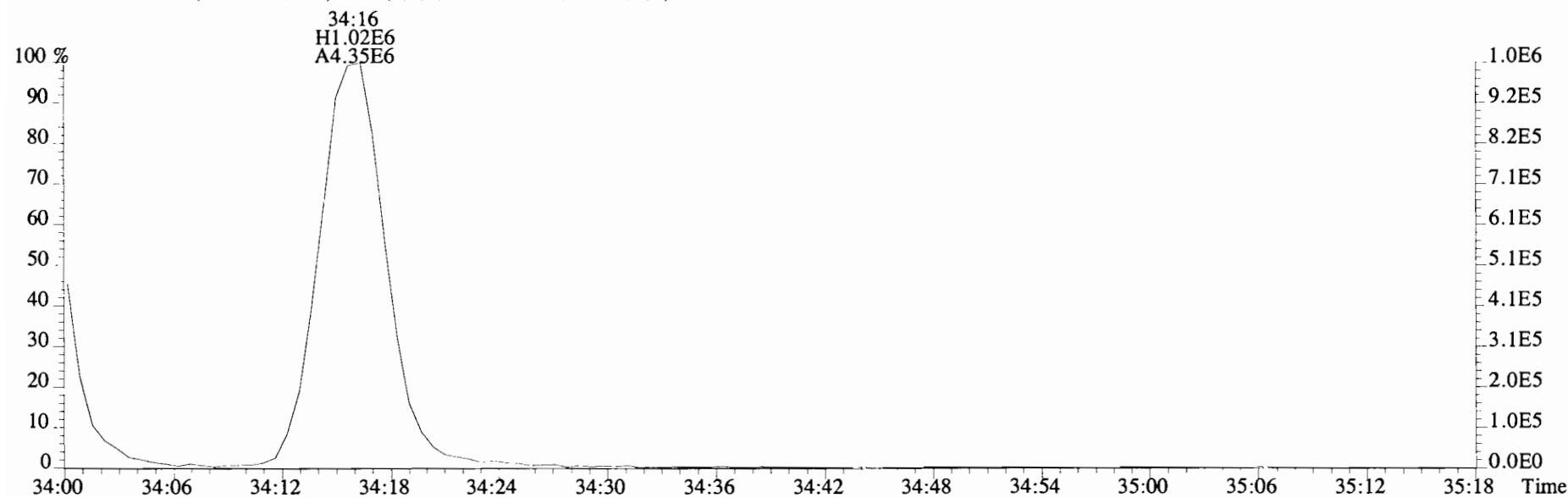
File:191212D2 #1-385 Acq:13-DEC-2019 00:56:17 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text:Vista Analytical Laboratory_VG7 Text:ST191212D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
 389.8156 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



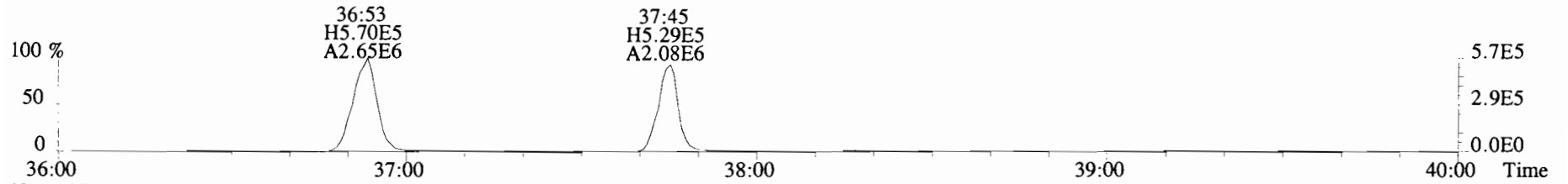
File:191212D2 #1-385 Acq:13-DEC-2019 00:56:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST191212D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



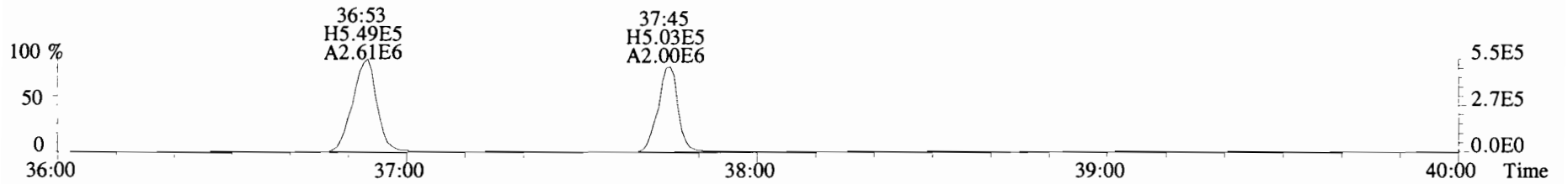
403.8530 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



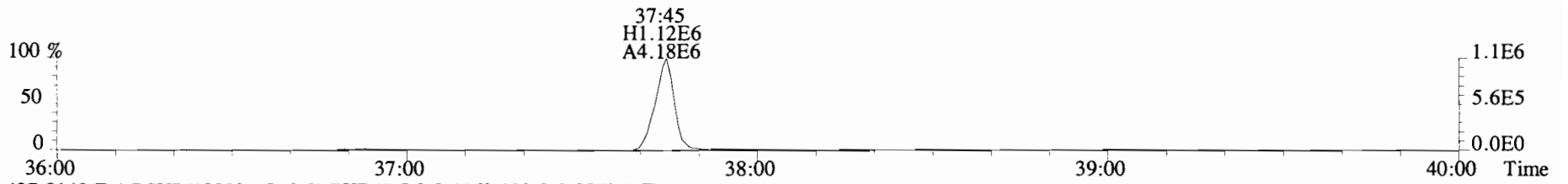
File:191212D2 #1-355 Acq:13-DEC-2019 00:56:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191212D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



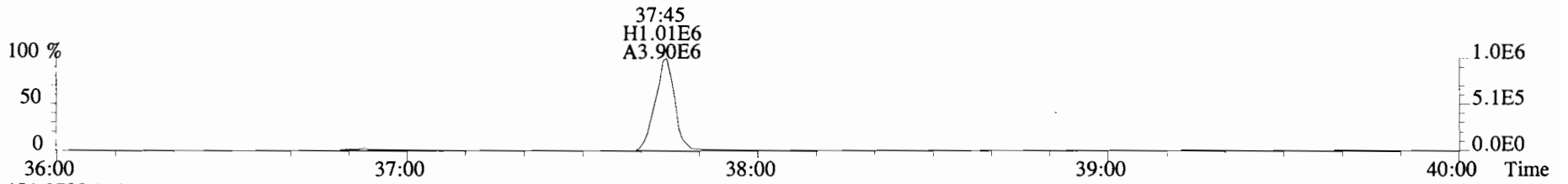
425.7737 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



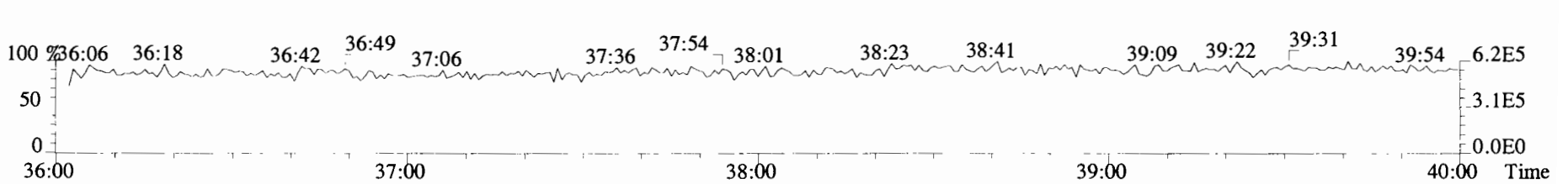
435.8169 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



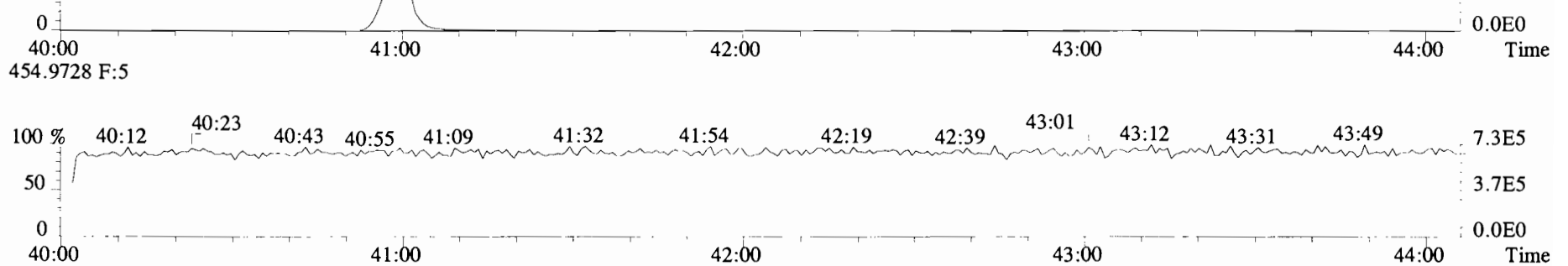
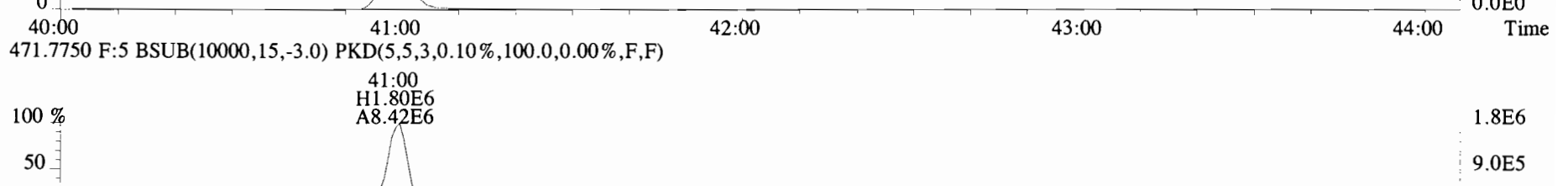
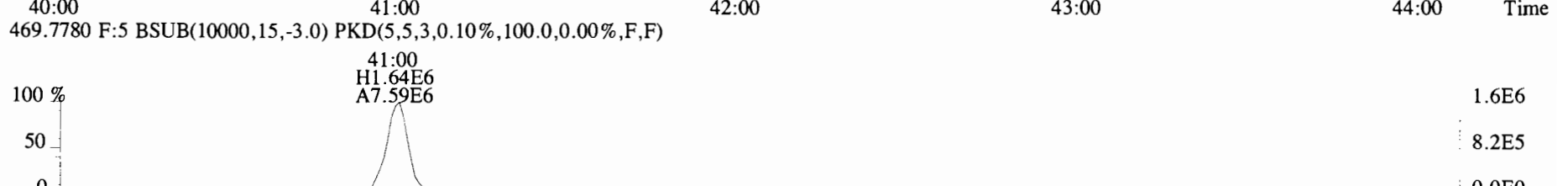
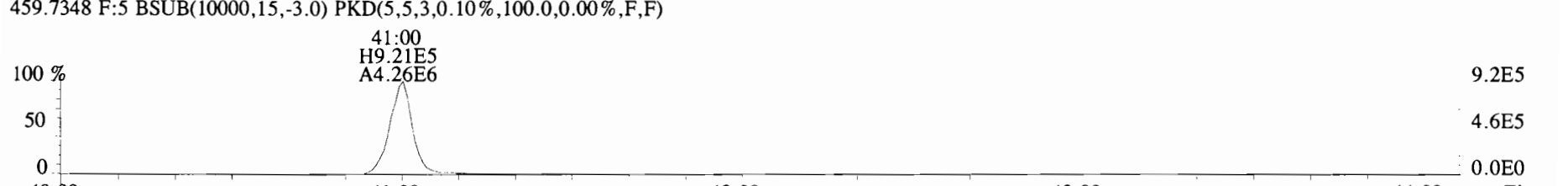
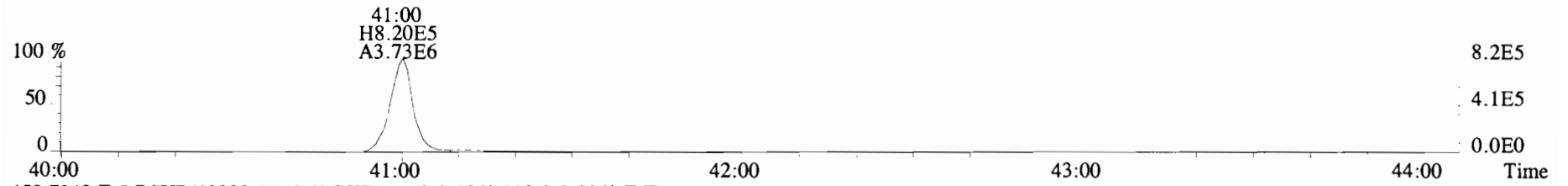
437.8140 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



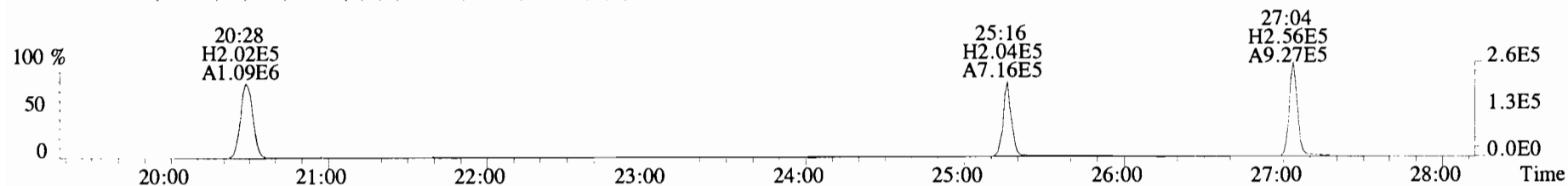
454.9728 F:4



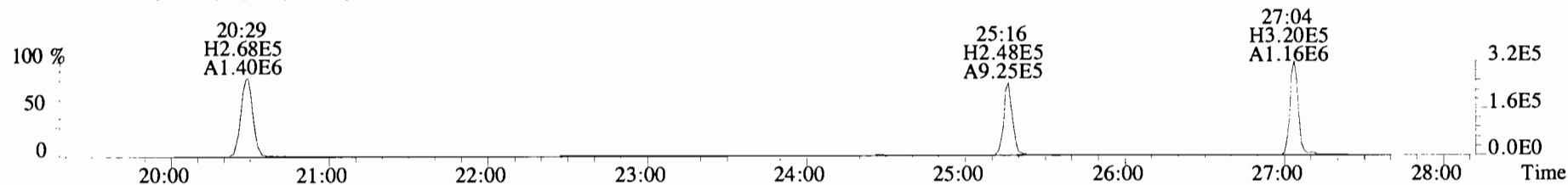
File:191212D2 #1-432 Acq:13-DEC-2019 00:56:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191212D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



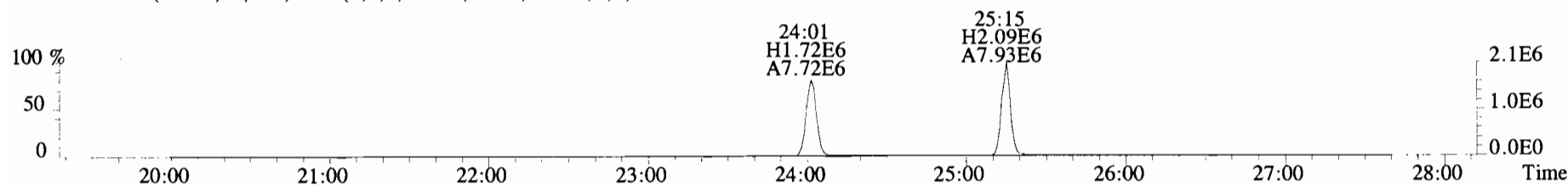
File:191212D2 #1-492 Acq:13-DEC-2019 00:56:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory_VG7 Text:ST191212D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



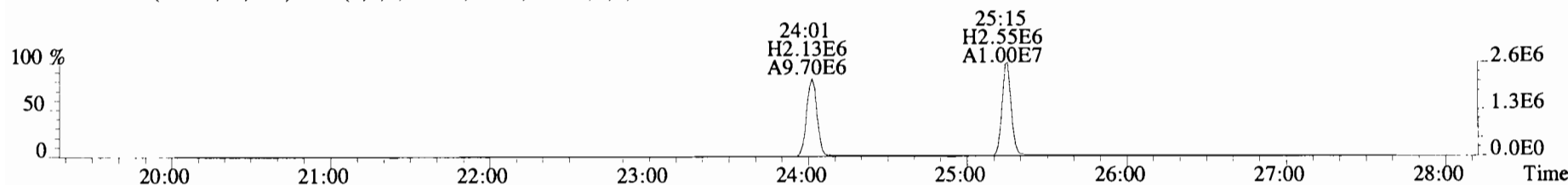
305.8987 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



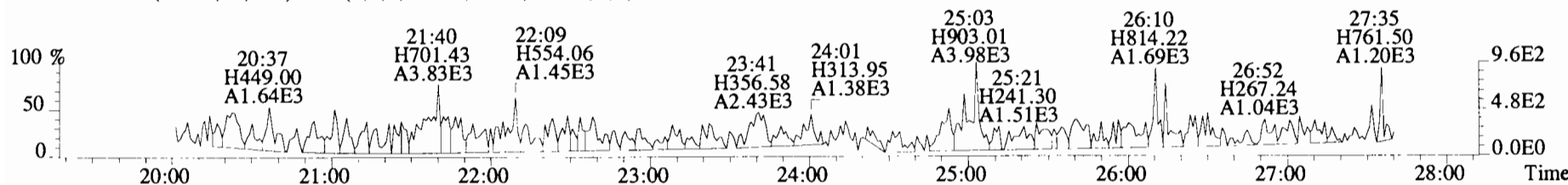
315.9419 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



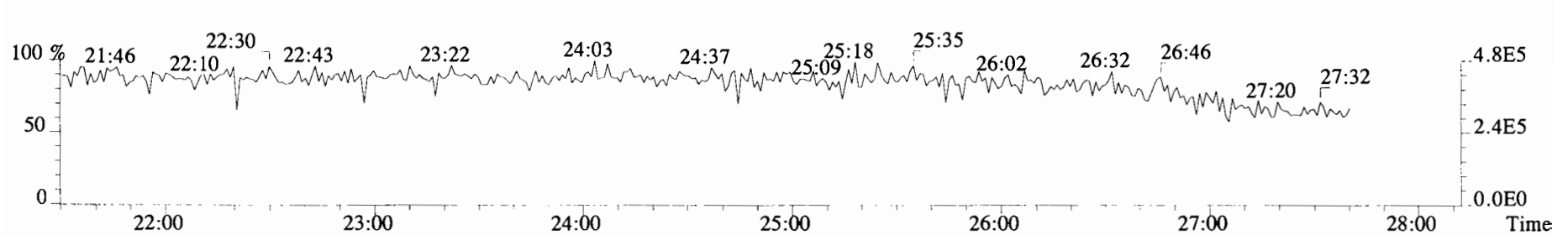
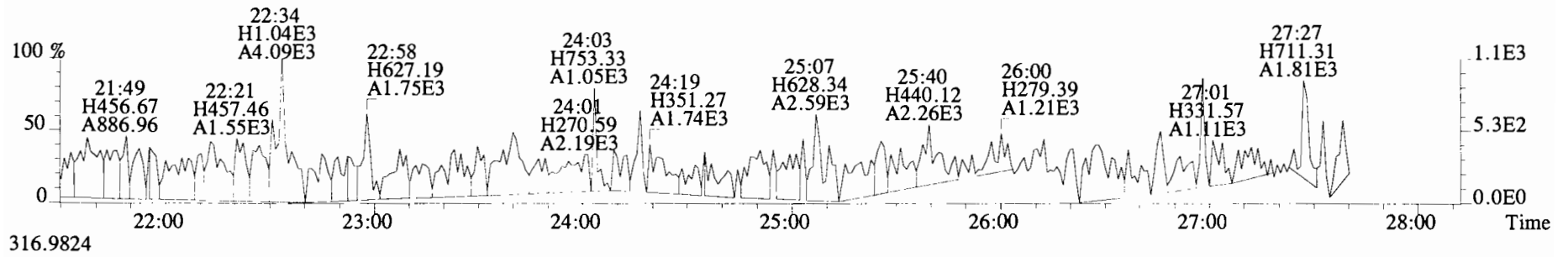
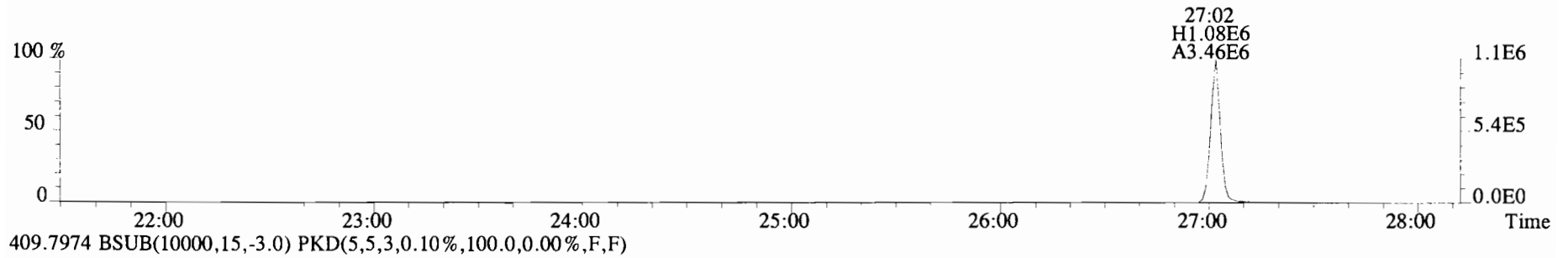
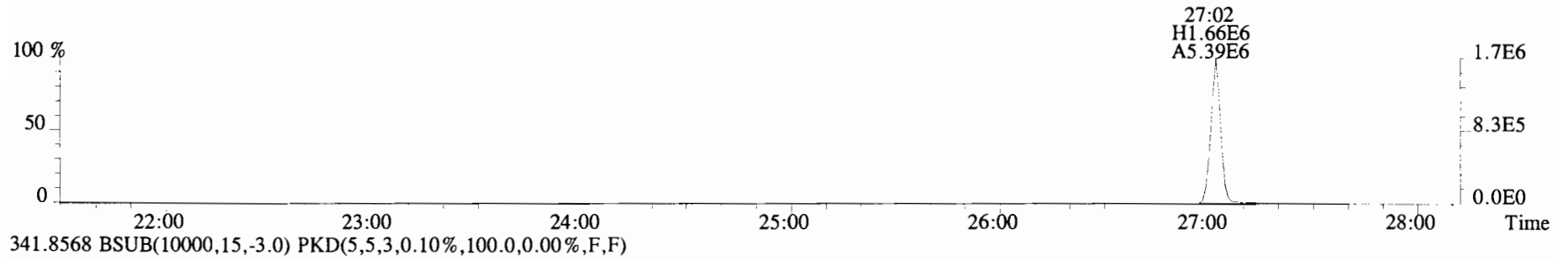
317.9389 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



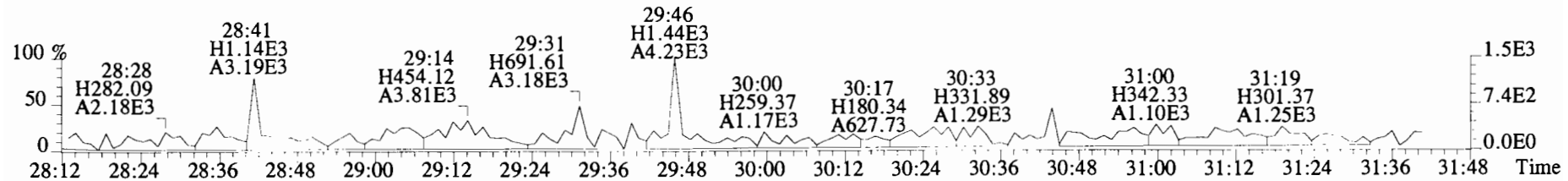
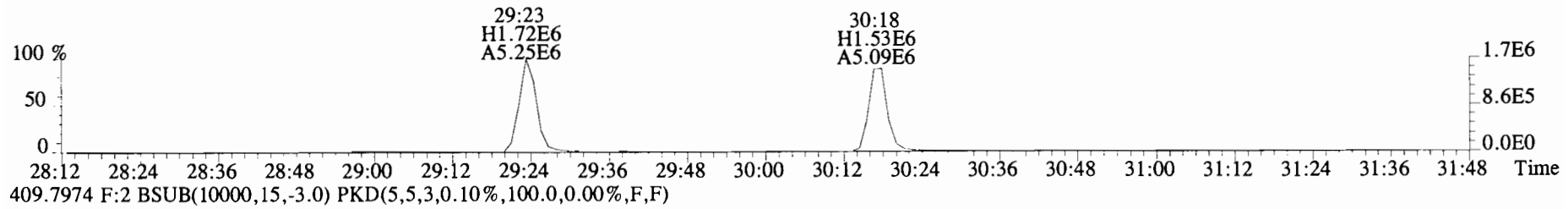
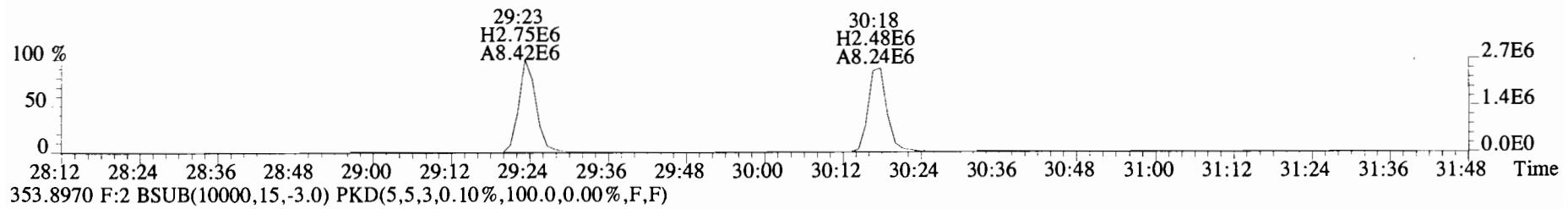
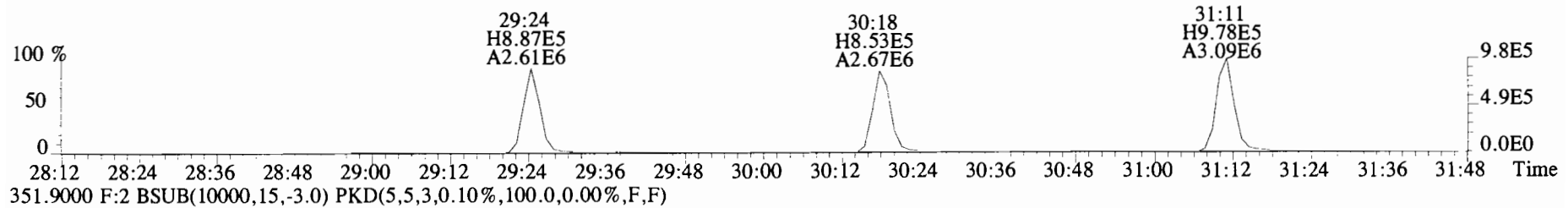
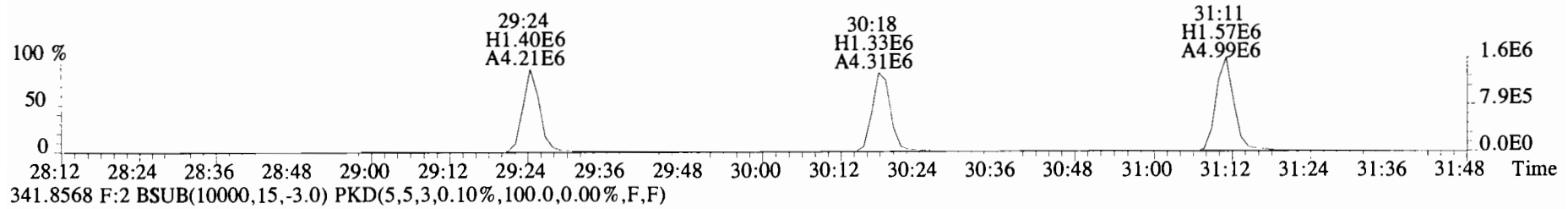
375.8364 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



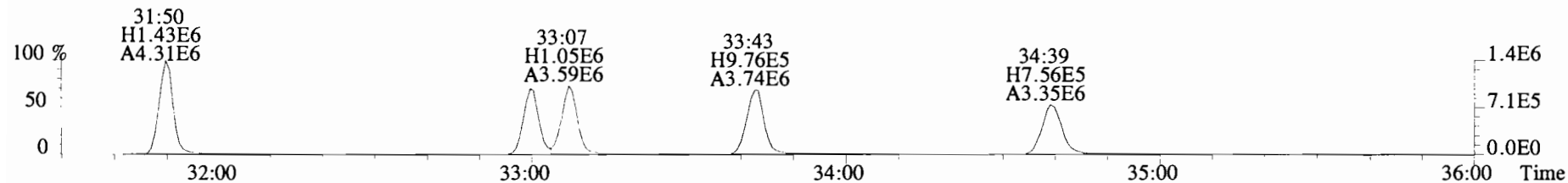
File:191212D2 #1-492 Acq:13-DEC-2019 00:56:17 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST191212D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
 339.8597 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



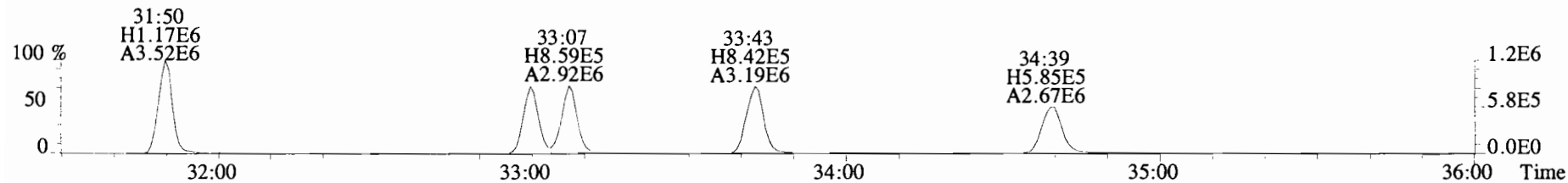
File:191212D2 #1-211 Acq:13-DEC-2019 00:56:17 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191212D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
 339.8597 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



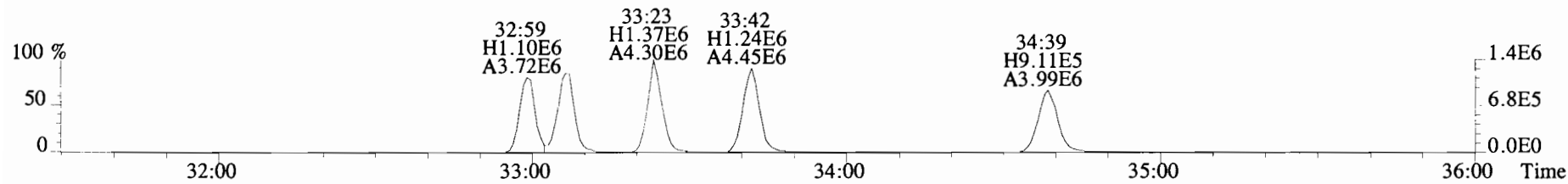
File:191212D2 #1-385 Acq:13-DEC-2019 00:56:17 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191212D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
 373.8207 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



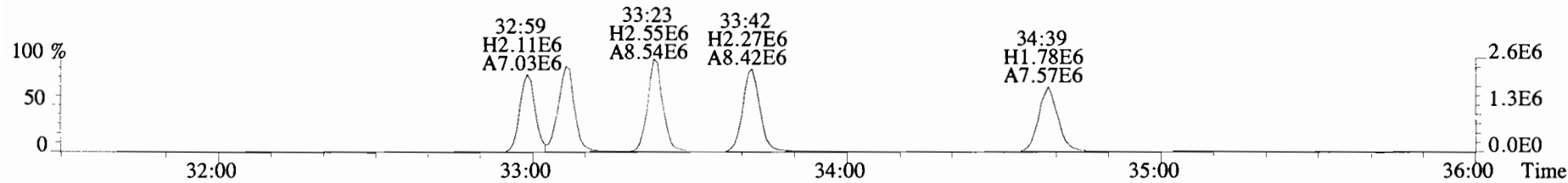
375.8178 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



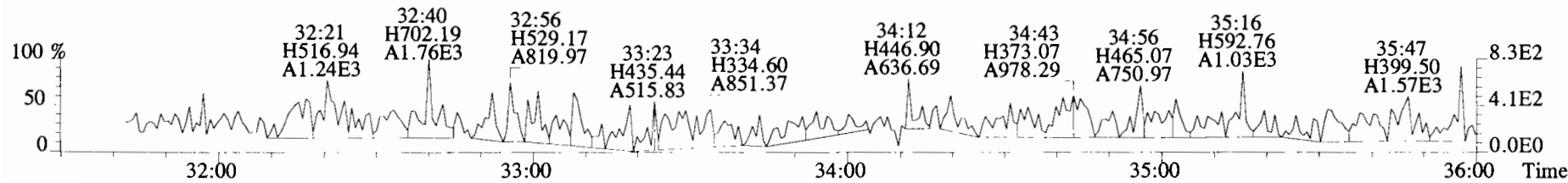
383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



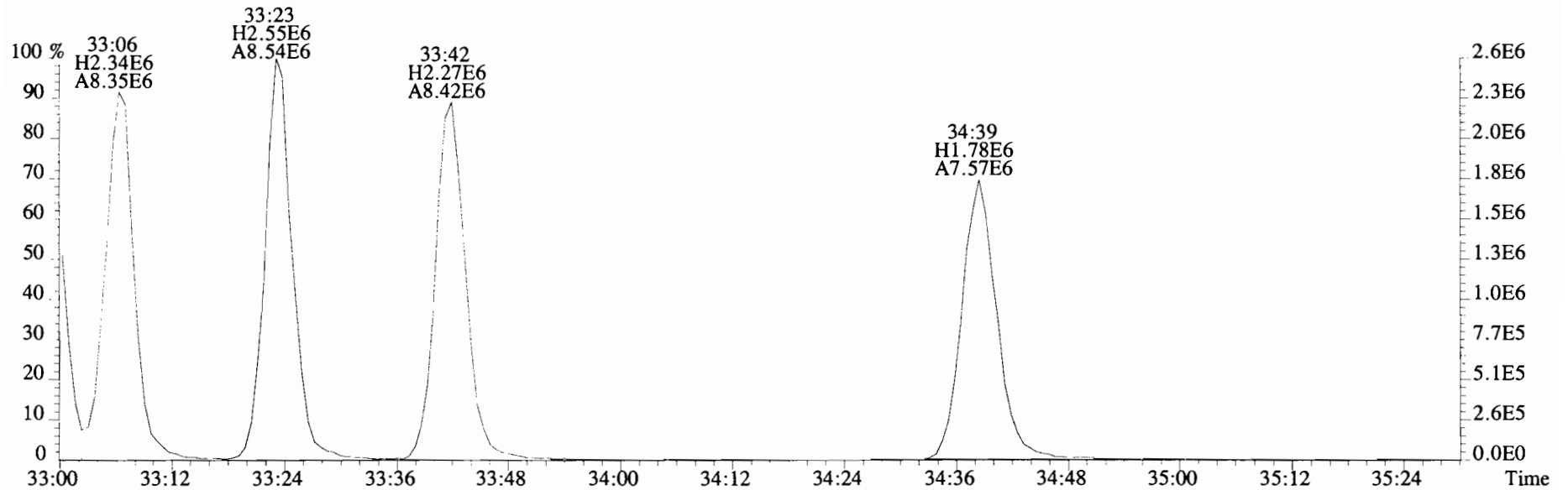
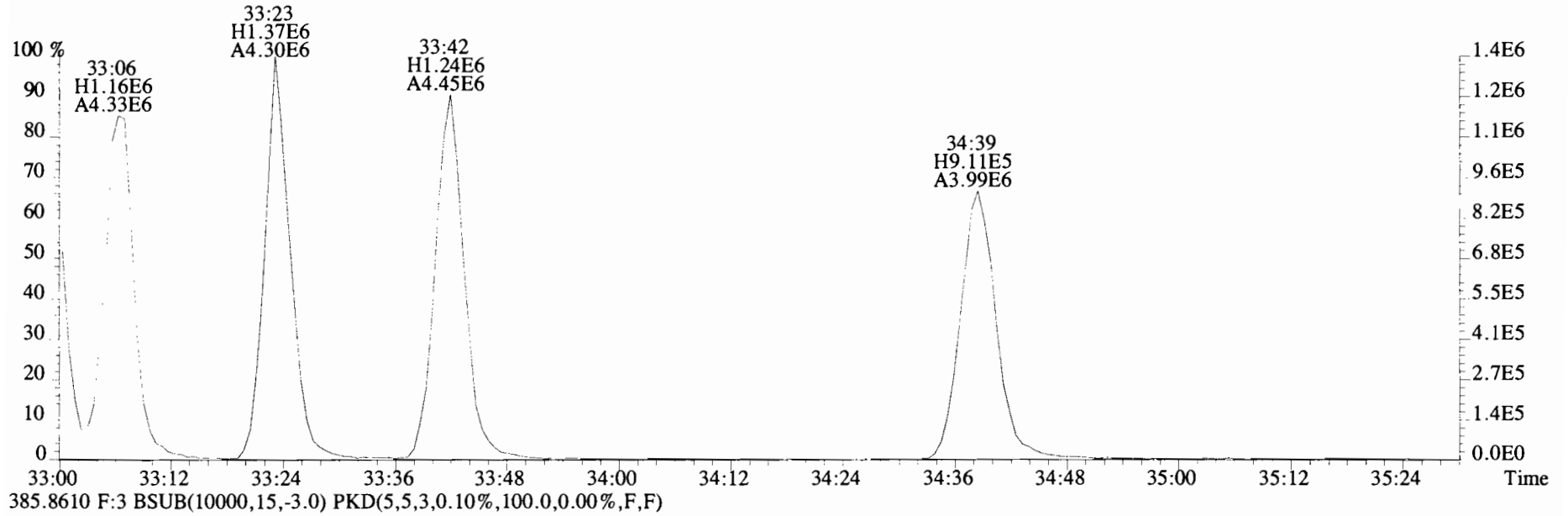
385.8610 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



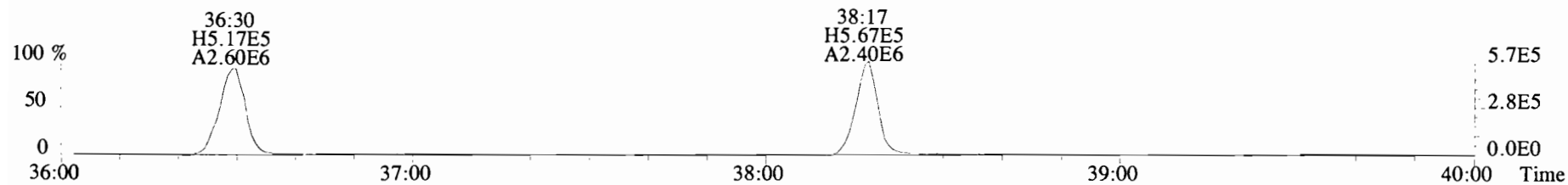
445.7555 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



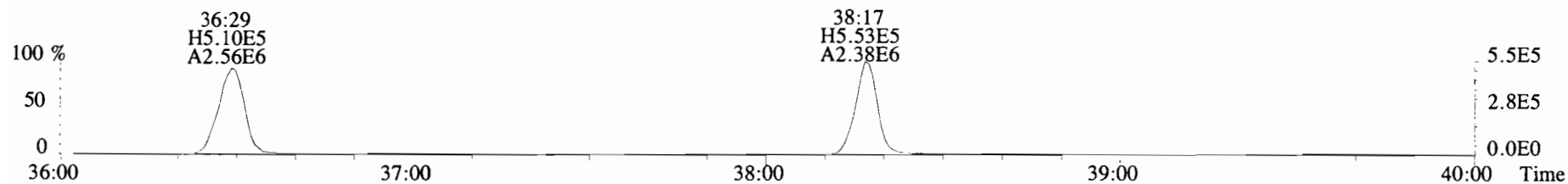
File:191212D2 #1-385 Acq:13-DEC-2019 00:56:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191212D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



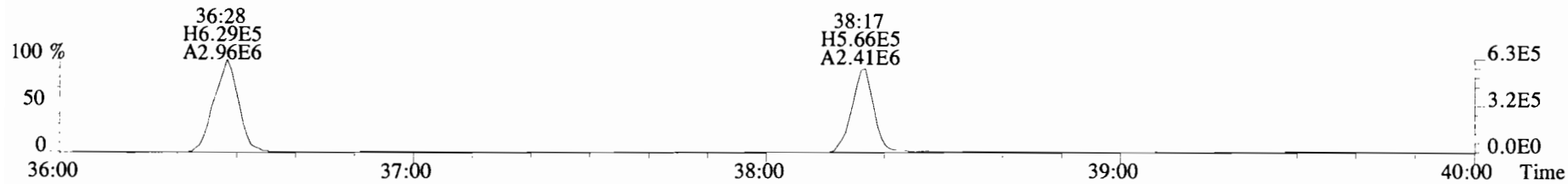
File:191212D2 #1-355 Acq:13-DEC-2019 00:56:17 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191212D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
 407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



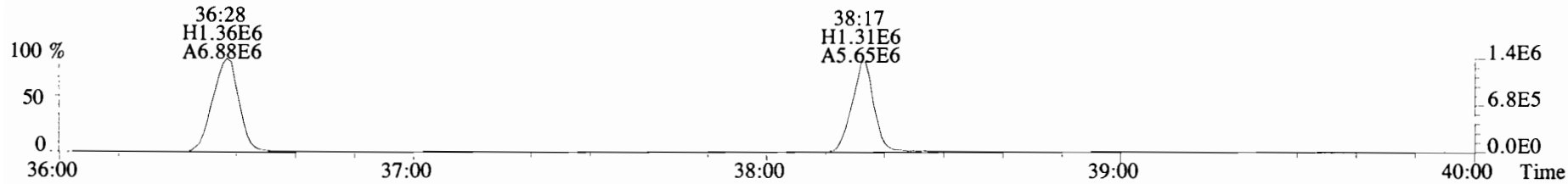
409.7788 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



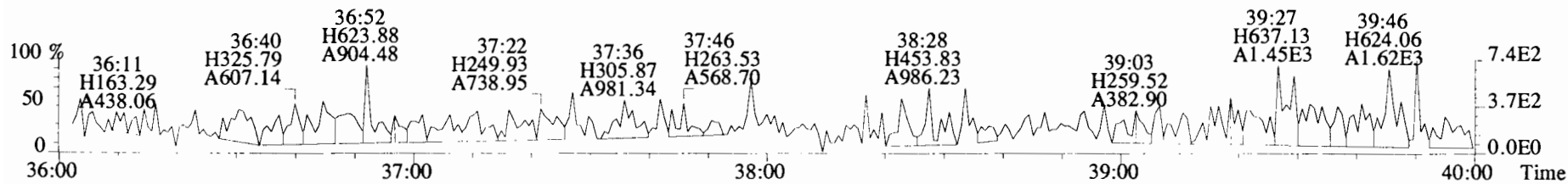
417.8253 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



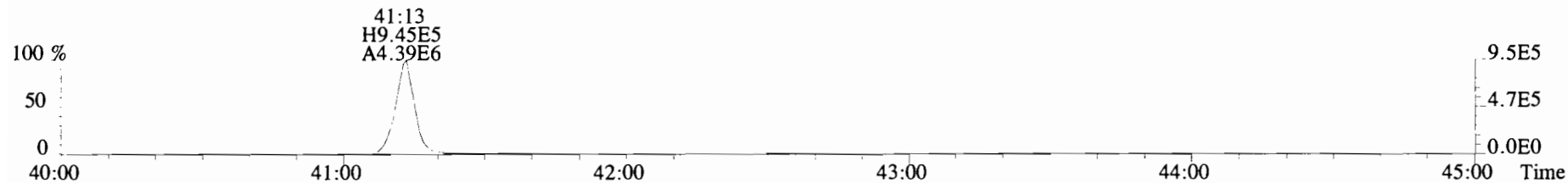
419.8220 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



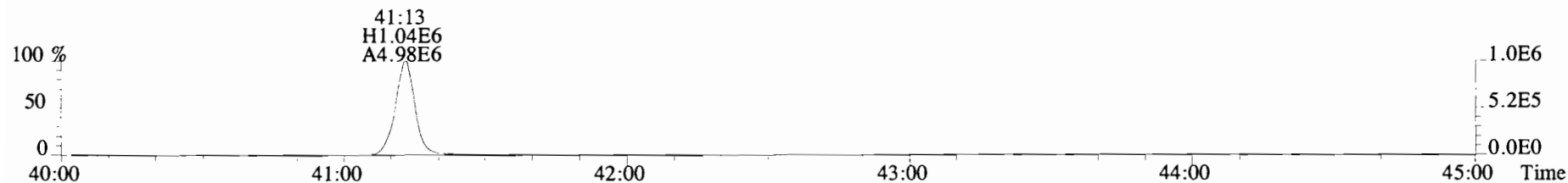
479.7165 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



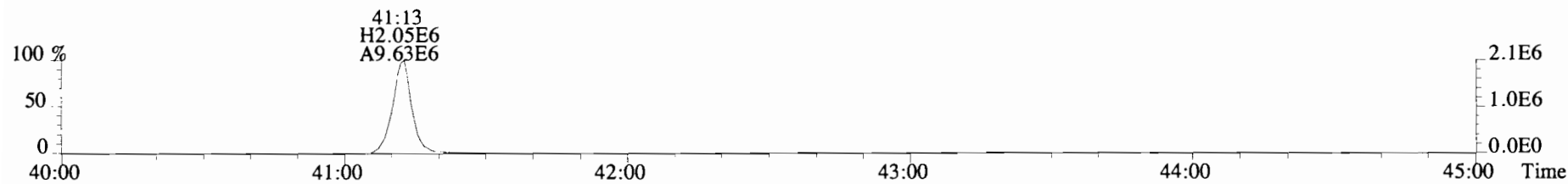
File:191212D2 #1-432 Acq:13-DEC-2019 00:56:17 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191212D2-1 1613 CS3 19C2204 Exp:OCDD_DB5
 441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



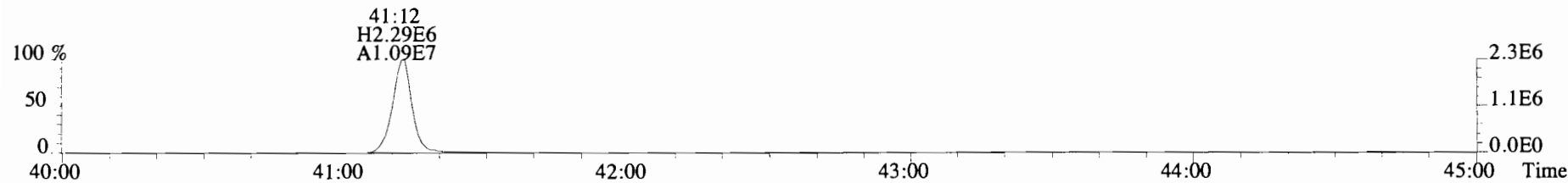
443.7398 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



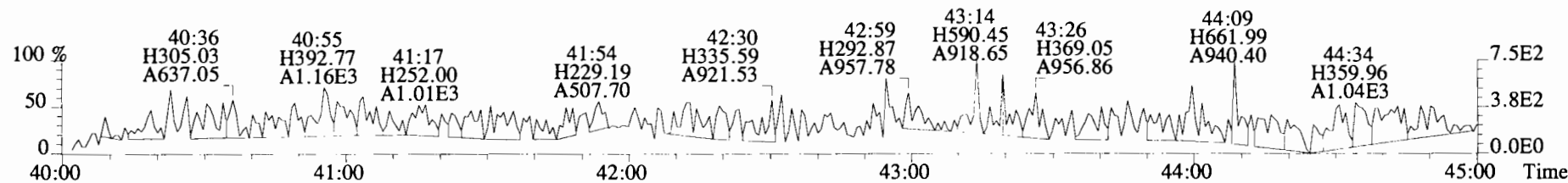
453.7831 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

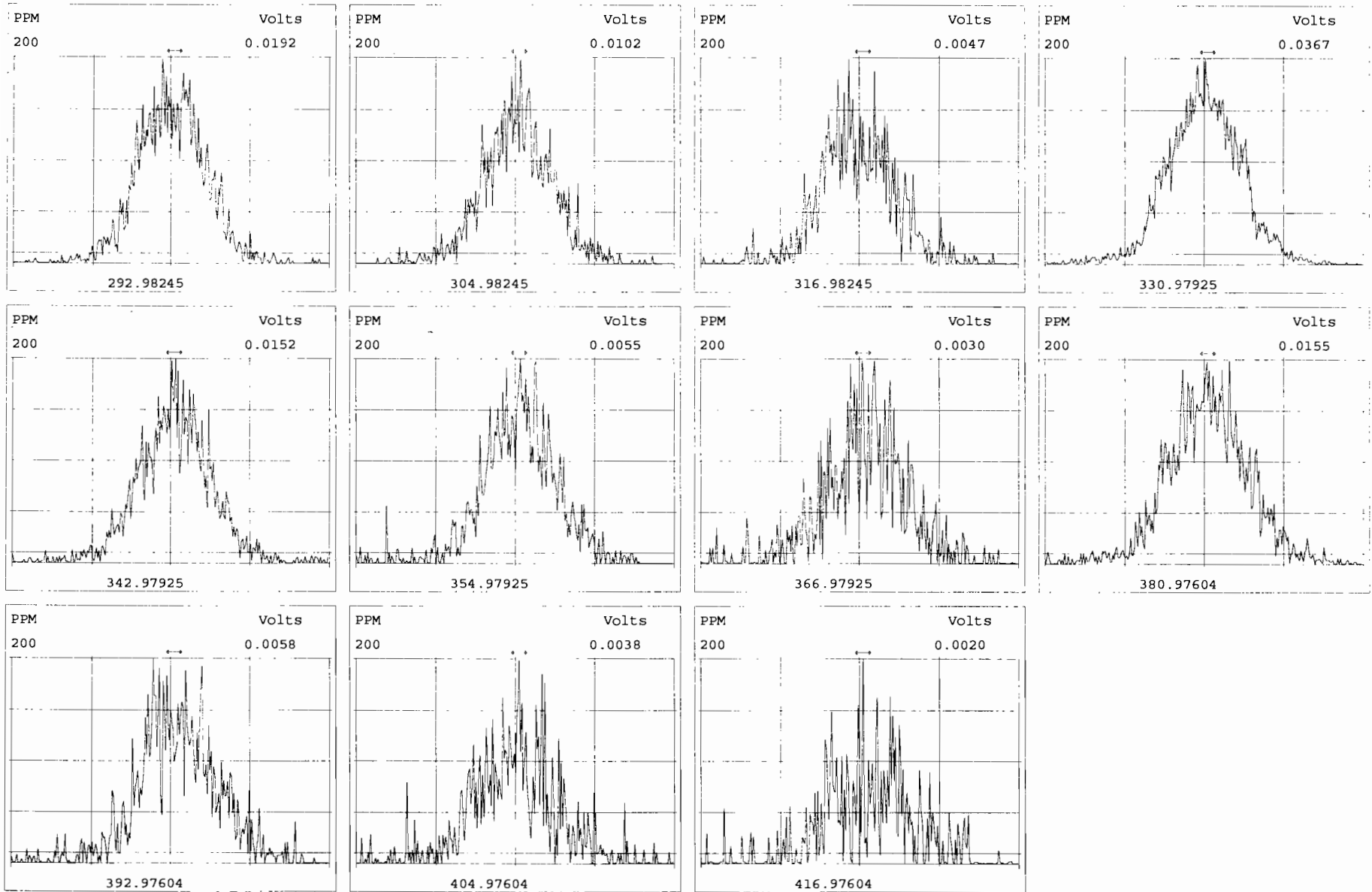


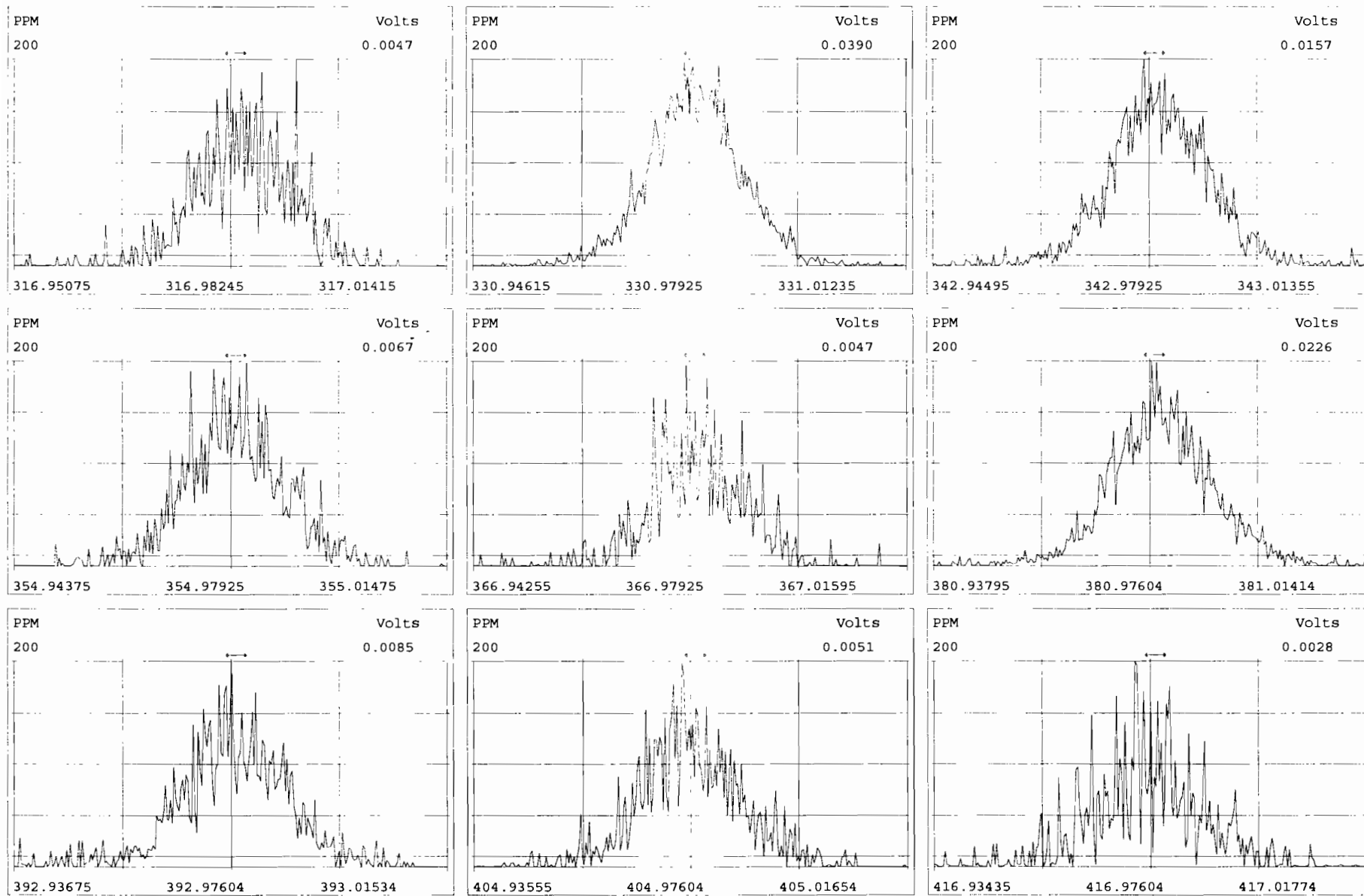
513.6775 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

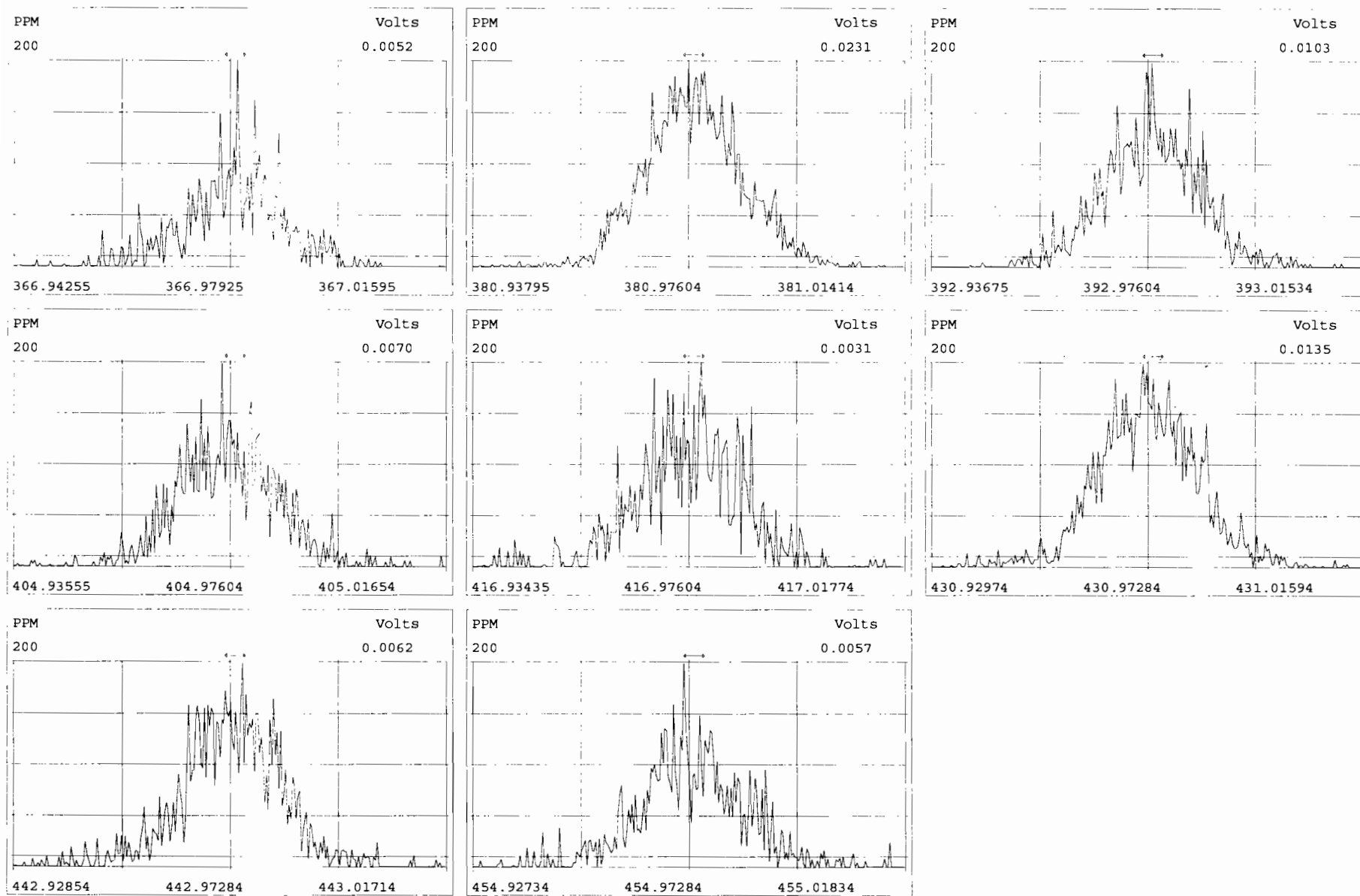


Peak Locate Examination:13-DEC-2019:12:16 File:RES_CHECK

Experiment:OCDD_DB5 Function:1 Reference:PFK

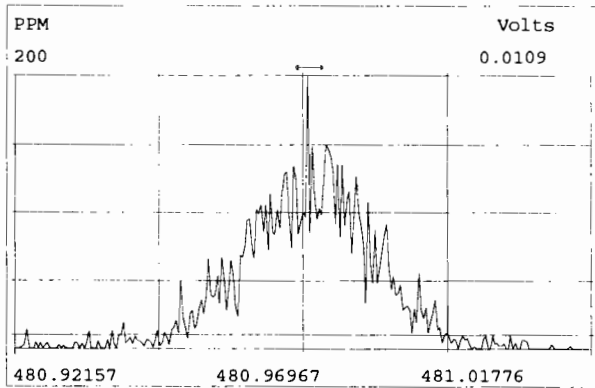
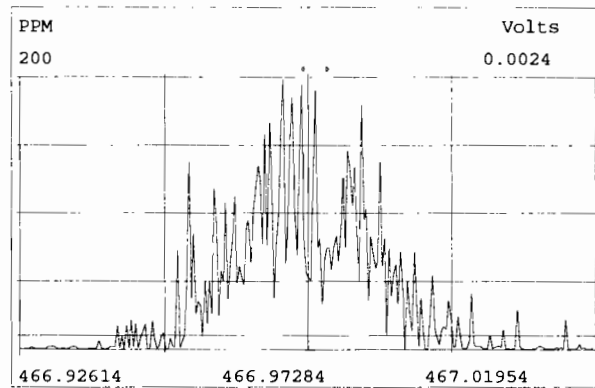
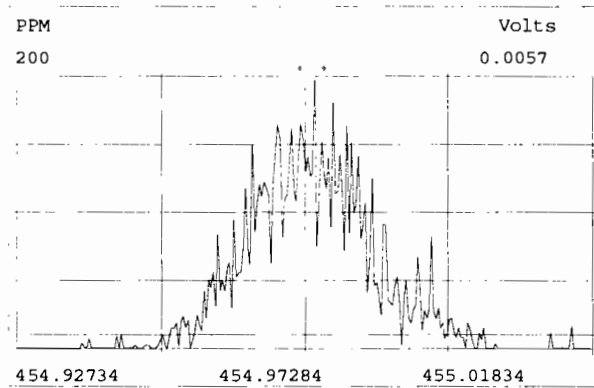
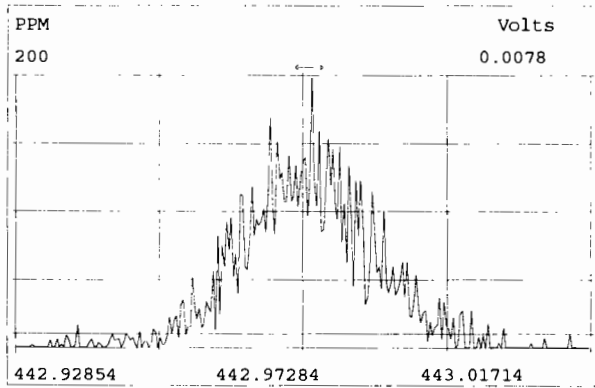
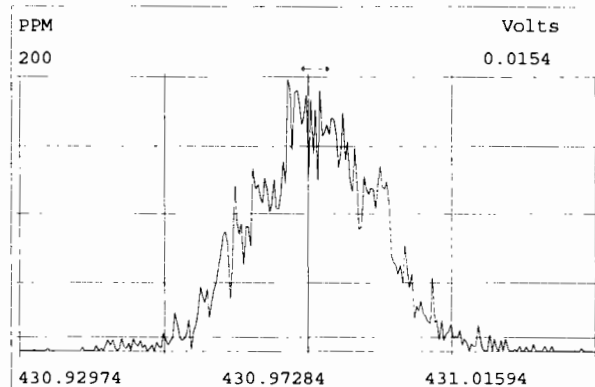
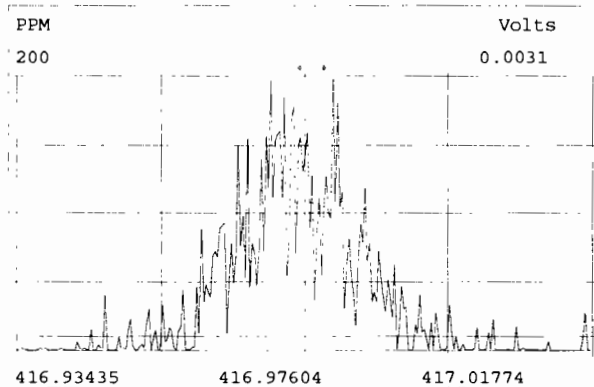
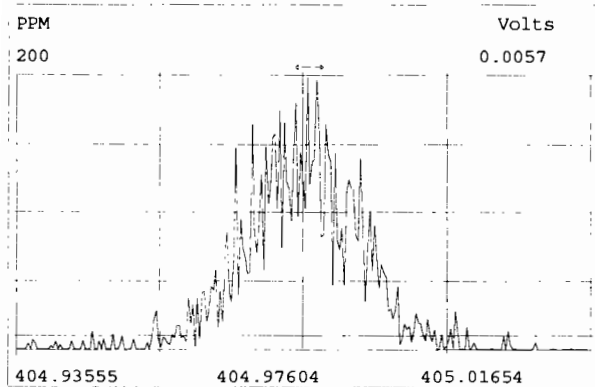


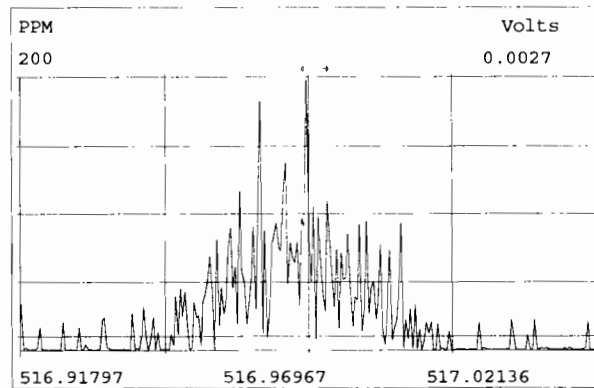
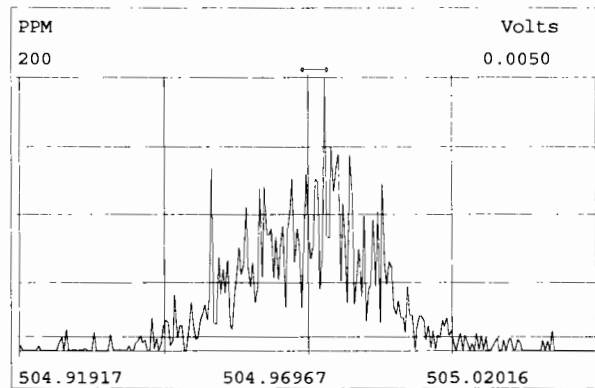
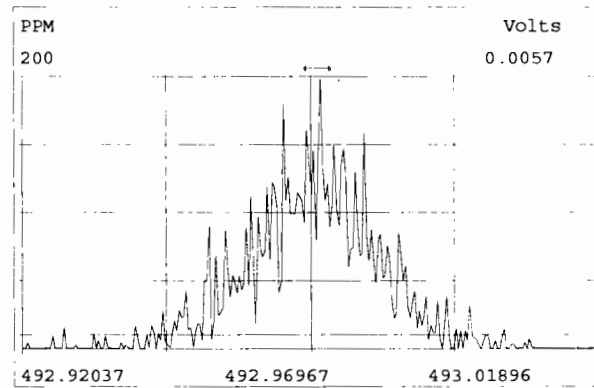
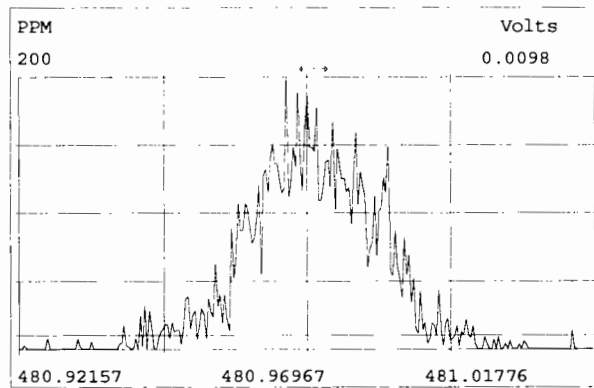
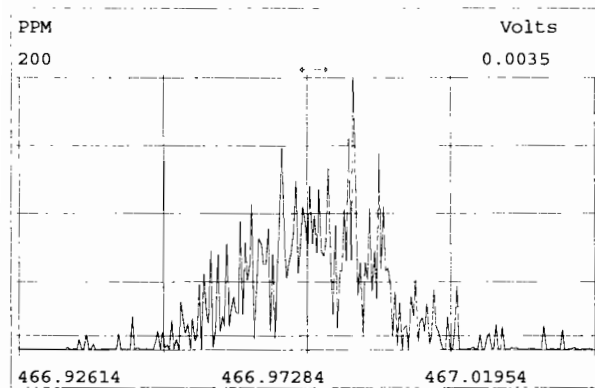
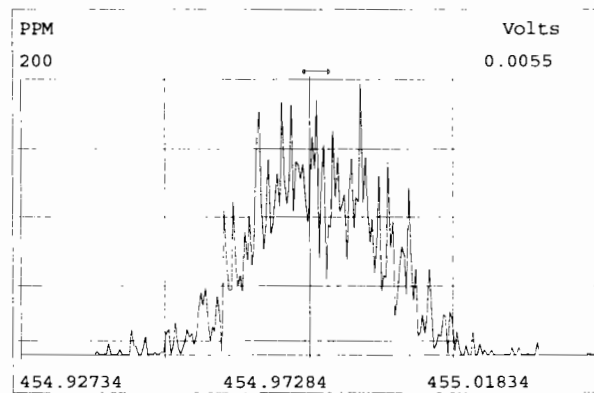
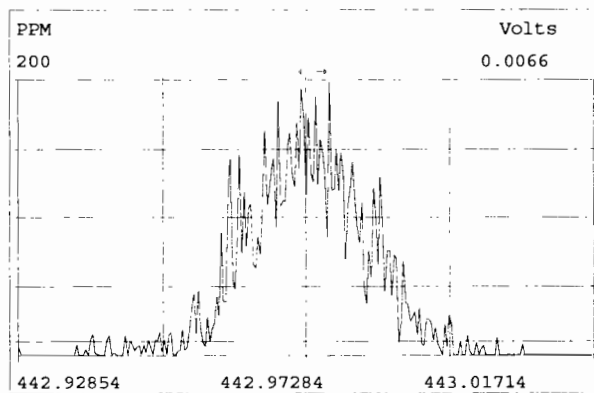
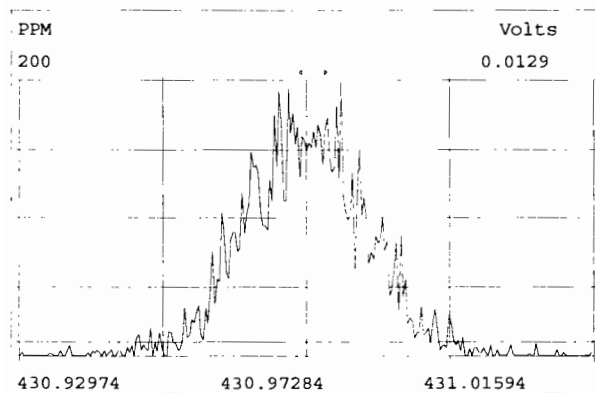




Peak Locate Examination:13-DEC-2019:12:19 File:RES_CHECK

Experiment:OCDD_DB5 Function:4 Reference:PFK





HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST191216D1-1

Reviewed By: CT 12/17/19

Initials & Date

End Calibration ID: NA

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

Mass resolution \geq

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

Intergrated peaks display correctly?

GC Break <20%

NA

8280 CS1 End Standard:

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

NA

Comments:

FORM 4A/4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory

CCAL ID: ST191216D1-1

Initial Calibration Date: 5-30-19

Instrument ID: VG-7

GC Column ID: DB-225

VER Data Filename: 191216D1 S#2 Analysis Date: 16-DEC-19 Time: 14:33:44

ANALYTES	M/Z'S	ION	QC	CONC.	CONC. RANGE	CONC. RANGE
	FORMING	ABUND.	LIMITS		1613	8290
	RATIO (1)	RATIO	(2)	FOUND	(ng/mL)	(ng/mL)
2,3,7,8-TCDF	M/M+2	0.80	0.65-0.89	11.5	8.4 - 12.0 (3) 8.6 - 11.6 (4)	8.0 - 12.0
13C-2,3,7,8-TCDF	M/M+2	0.78	0.65-0.89	102.3	71.0 - 140.0 (3) 76.0 - 131.0 (4)	70.0 - 130.0

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(3) Contract-required concentration range as specified in Table 6a, Method 1613, under VER.

(4) Contract required concentration range as specified in Table 6a, Method 1613, for tetras only.

Analyst: DBDate: 12/16/19

Client ID: 1613 CS3 19C2204
Lab ID: ST191216D1-1

Filename: 191216D1 S:2 Acq:16-DEC-19 14:33:44
GC Column ID: DB-225 ICal: 1613TCDFVG7-5-30-19 wt/vol: 1.000

ConCal: ST191216D1-1
EndCAL: NA

Page 1 of 1

Name	Resp	RA	RT	RRF	Conc	Rec
13C-1,2,3,4-TCDF	1.01e+07	0.79 y	15:35	1.00	100.0	-
13C-2,3,7,8-TCDF	1.05e+07	0.78 y	17:41	1.02	102.3	102.3
2,3,7,8-TCDF	1.14e+06	0.80 y	17:43	0.95	11.46	

Integrations

by
Analyst: DB

Date: 12/16/19

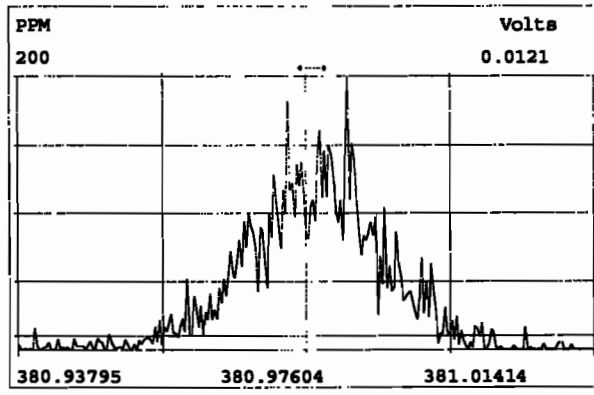
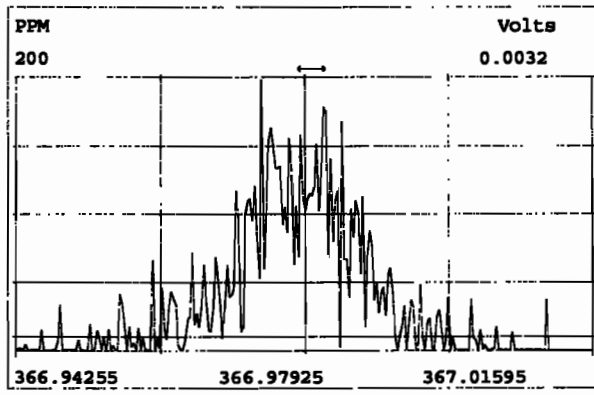
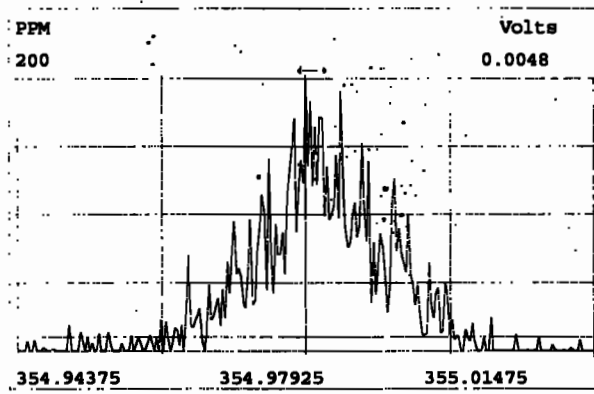
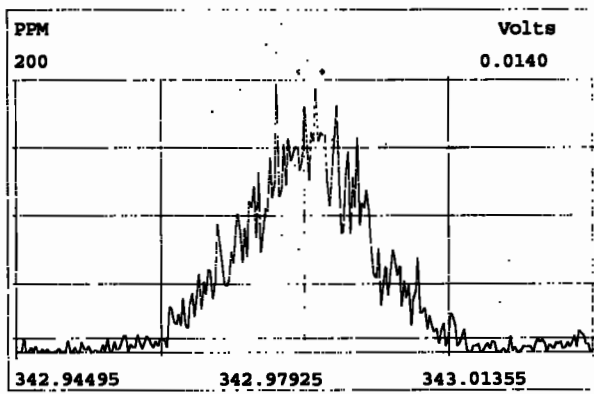
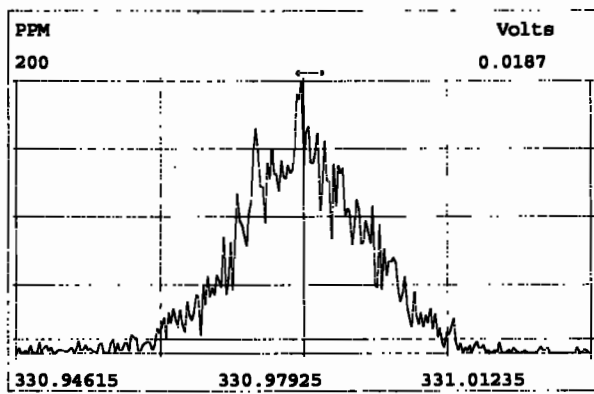
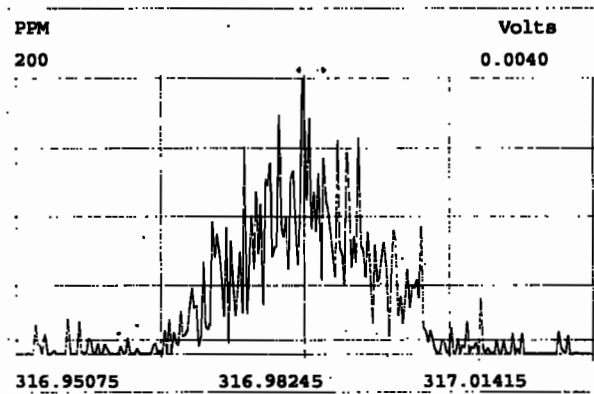
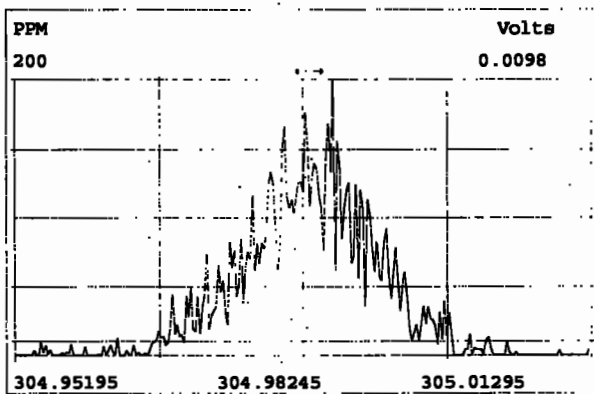
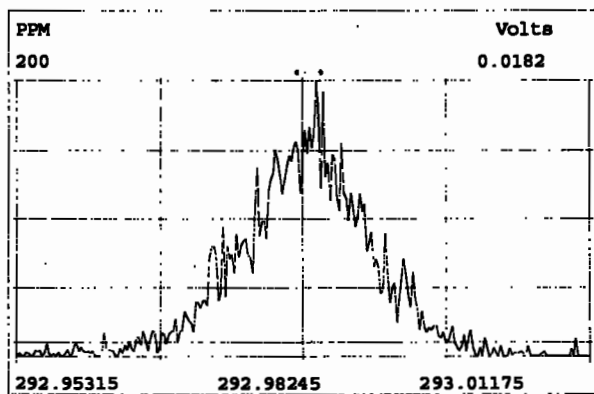
Reviewed

by
Analyst: OT

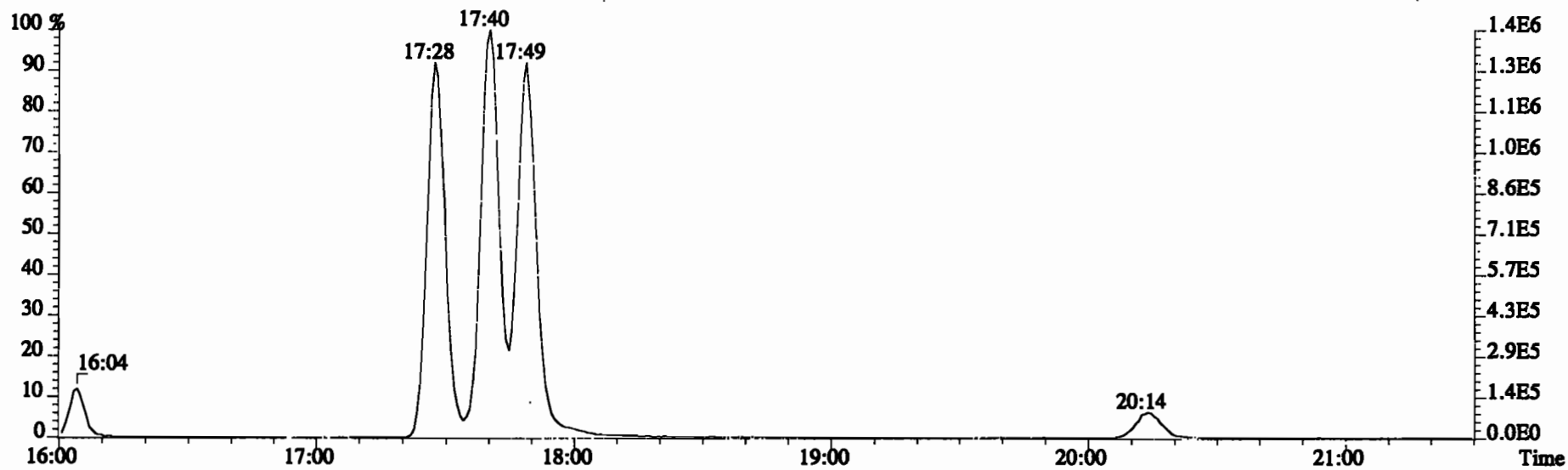
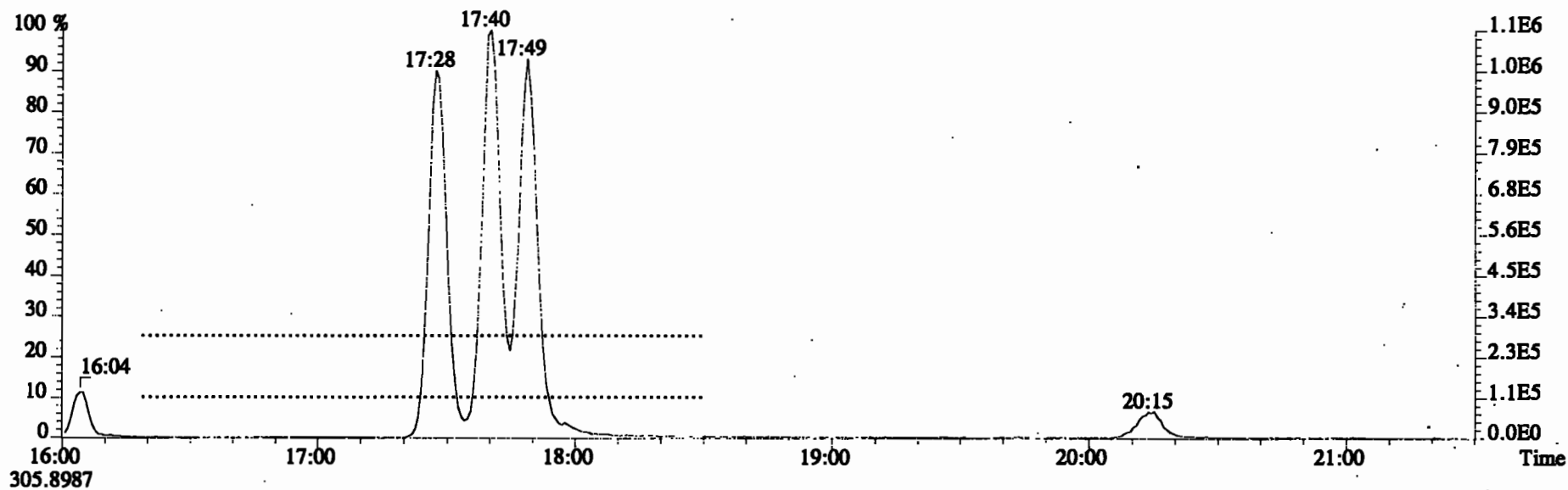
Date: 12/17/19

Vista Analytical Laboratory - Injection Log Run file: 191216D1 Instrument ID: VG-7 GC Column ID: DB-225

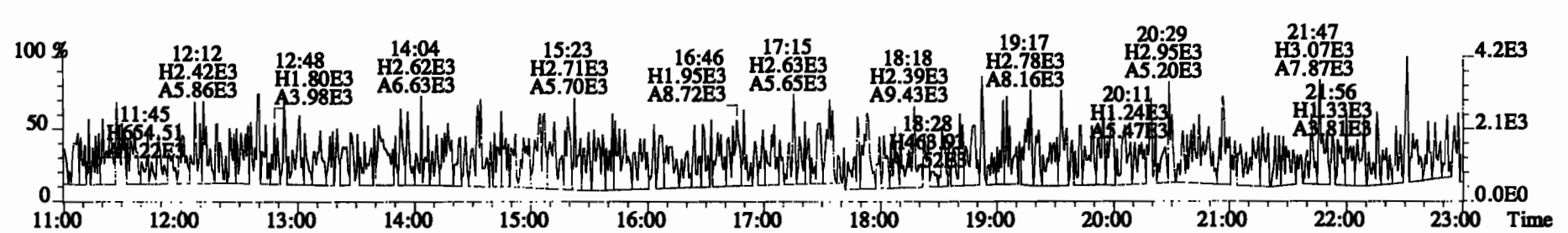
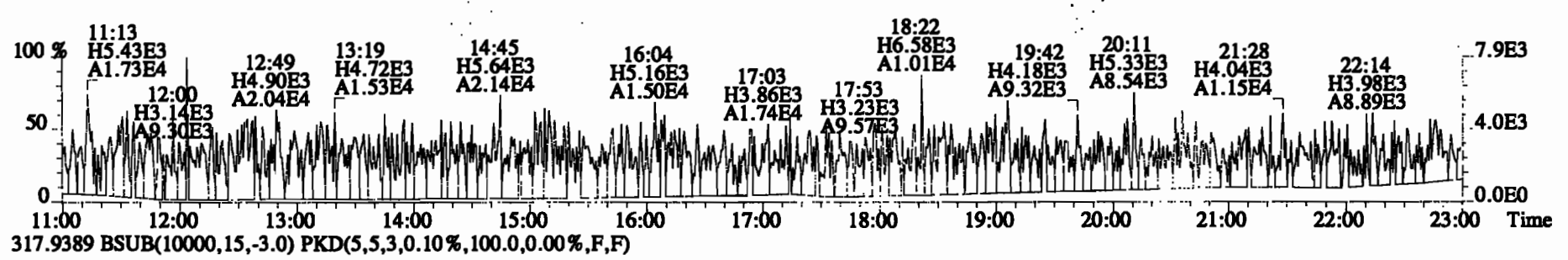
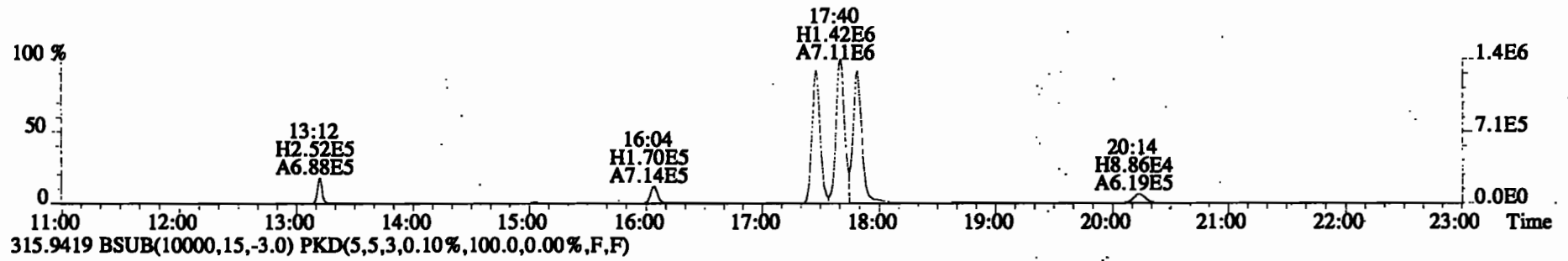
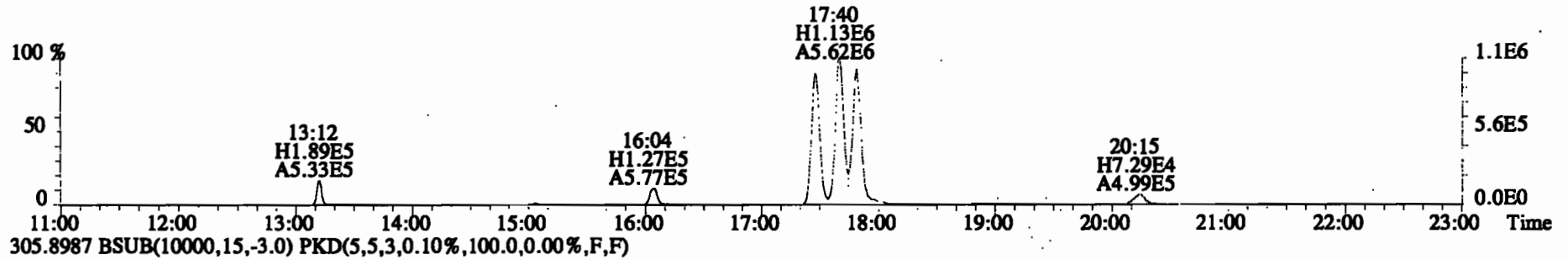
Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
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191216D1	2	ST191216D1-1	DB	16-DEC-19	14:33:44	ST191216D1-1	NA
191216D1	3	SOLVENT BLANK	DB	16-DEC-19	15:06:01	ST191216D1-1	NA
191216D1	4	1904021-04RE1	DB	16-DEC-19	15:38:18	ST191216D1-1	NA
191216D1	5	1904021-01RE1	DB	16-DEC-19	16:10:34	ST191216D1-1	NA
191216D1	6	1903430-06RE3	DB	16-DEC-19	16:42:50	ST191216D1-1	NA
191216D1	7	1903828-01RE1	DB	16-DEC-19	17:15:07	ST191216D1-1	NA



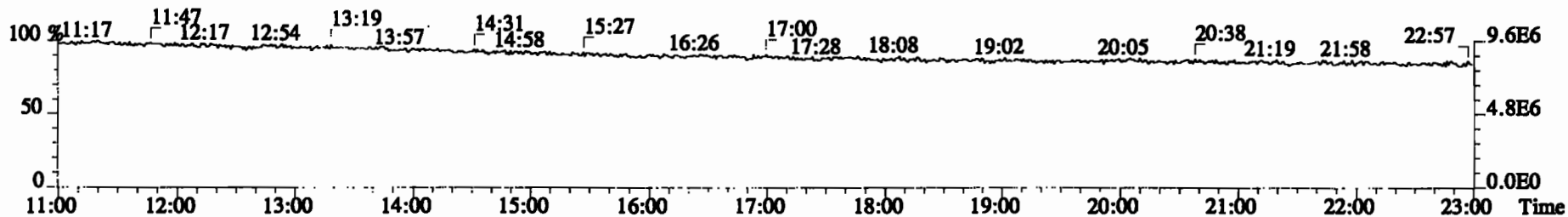
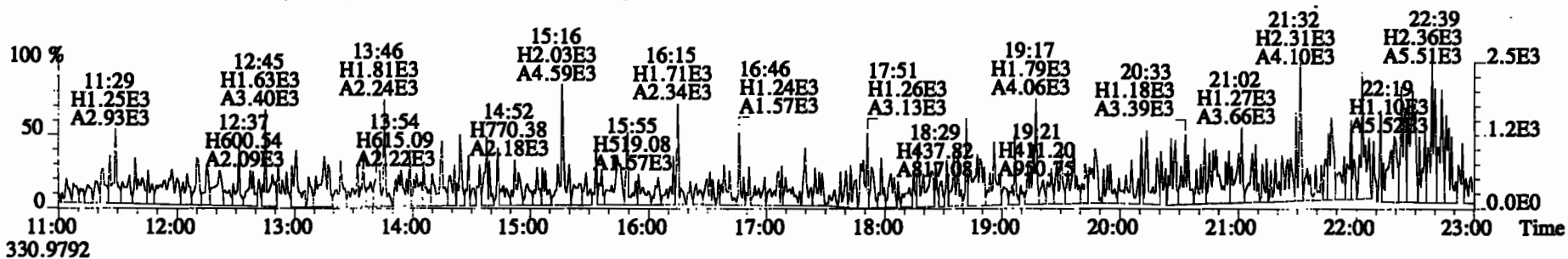
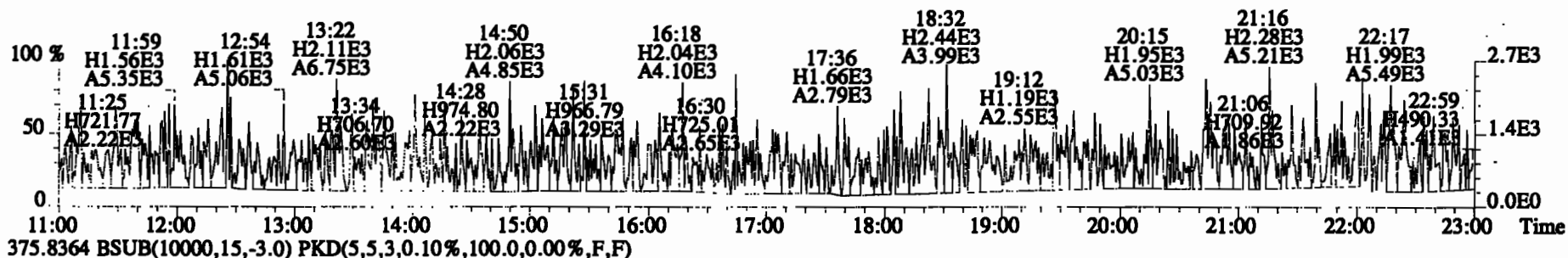
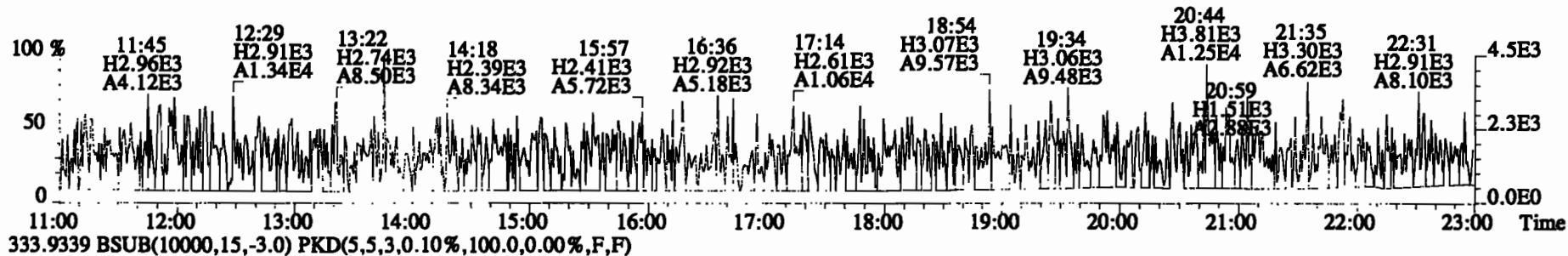
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Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:CP191216D1-1 DB225 CPSM Exp:TCDF_DB225
303.9016



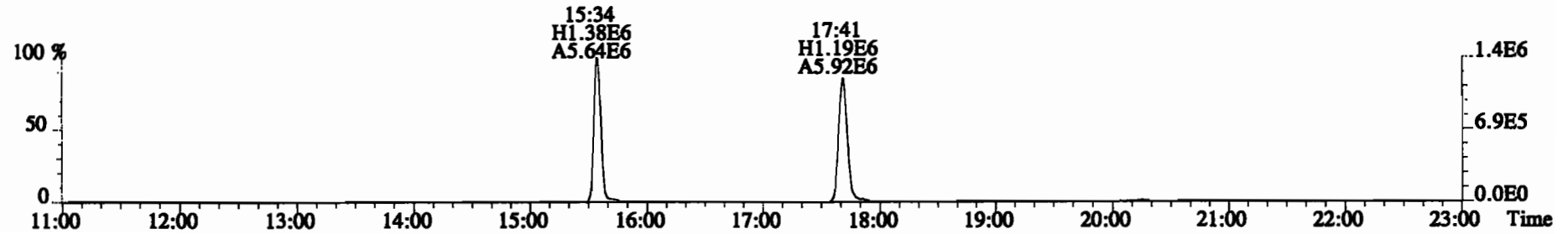
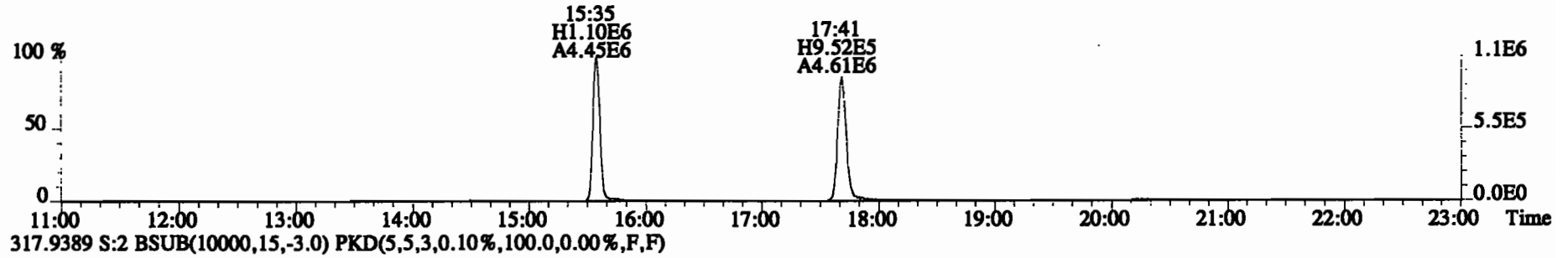
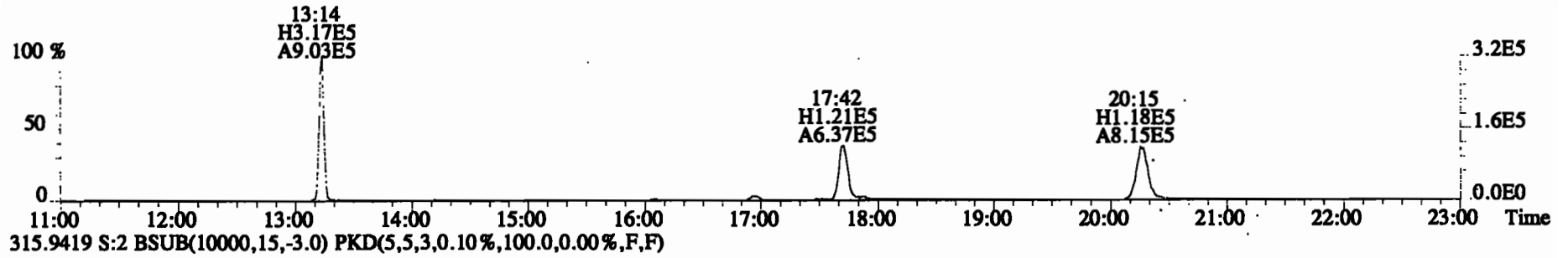
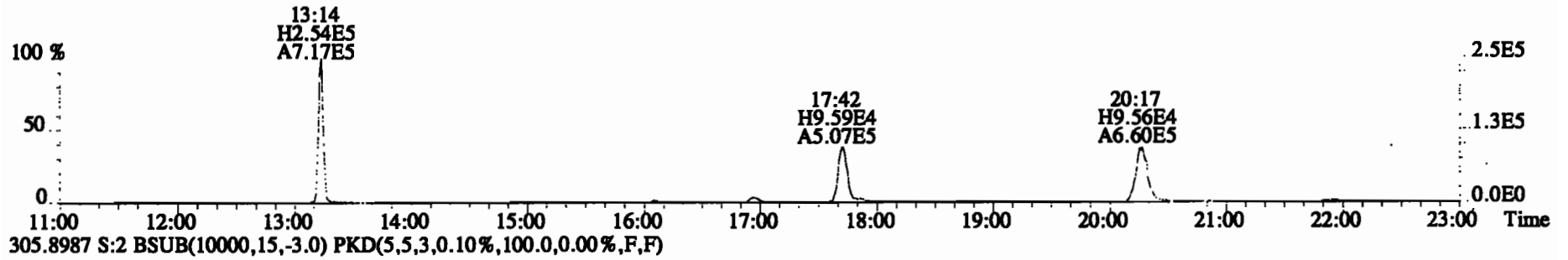
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 Sample#1 File Text:Vista Analytical Laboratory VG7 Text:CP191216D1-1 DB225 CPSM Exp:TCDF_DB225
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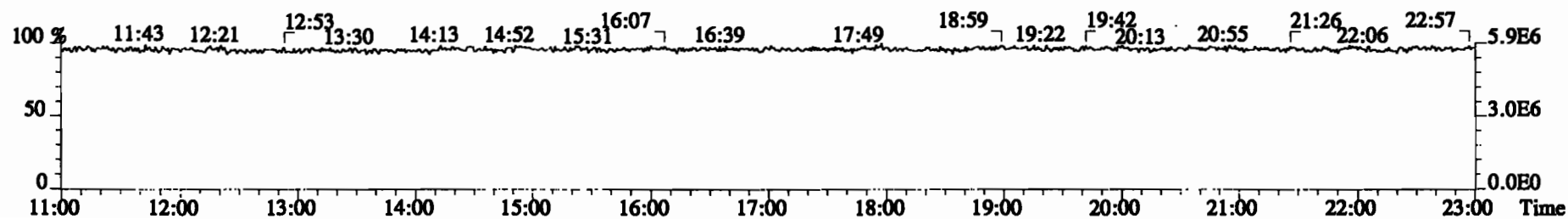
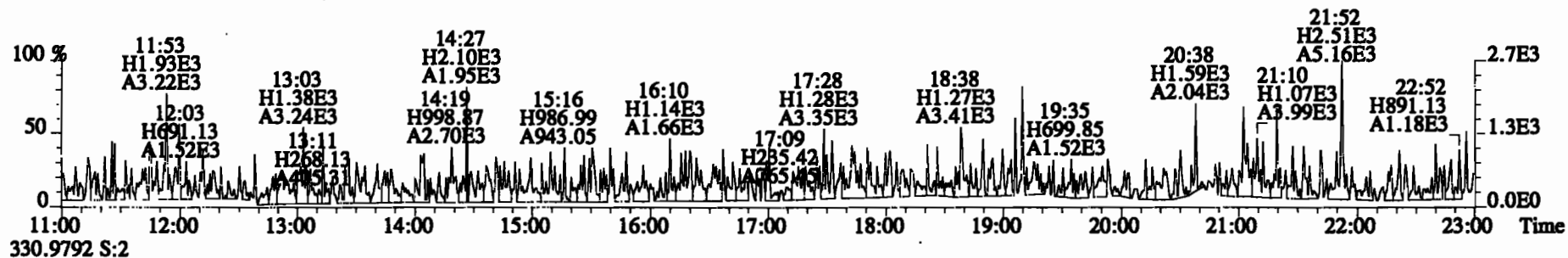
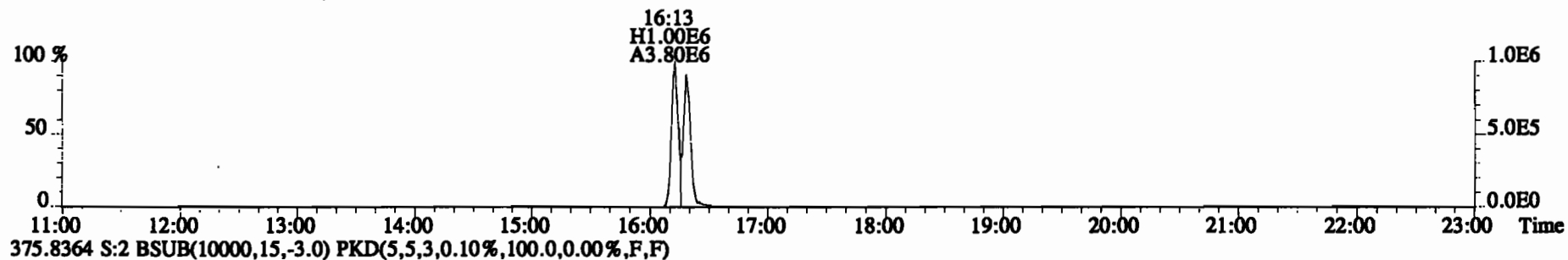
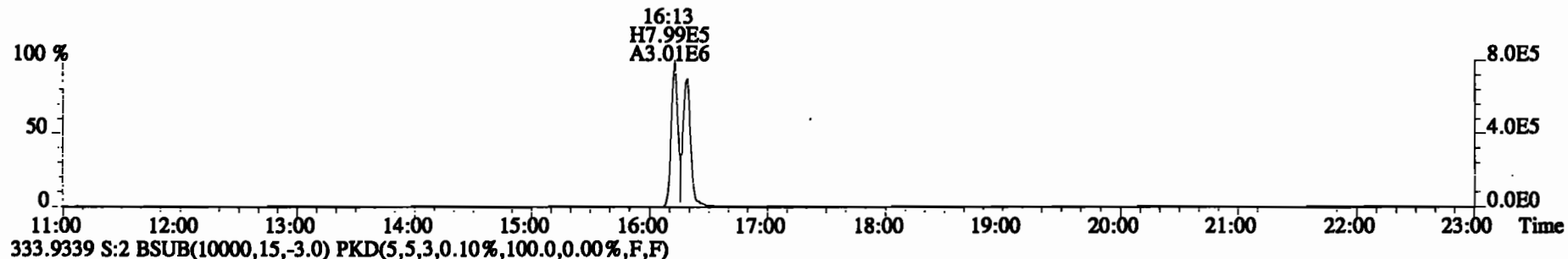
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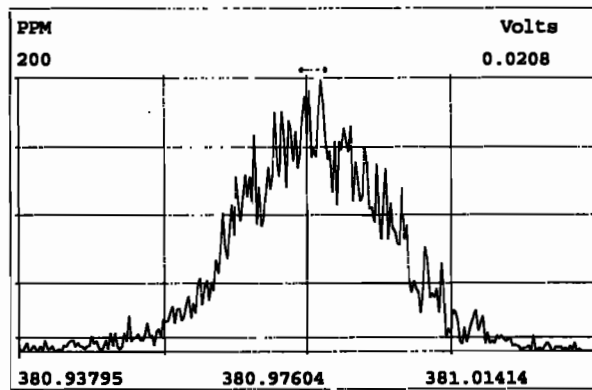
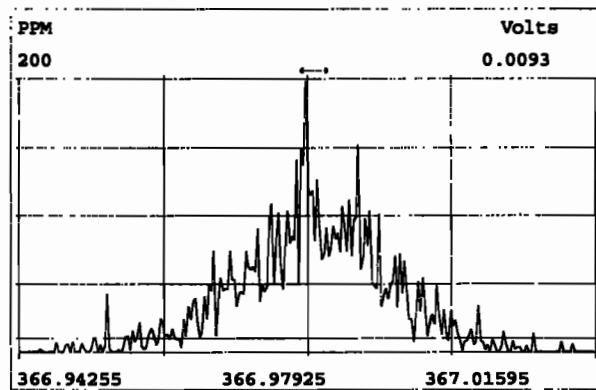
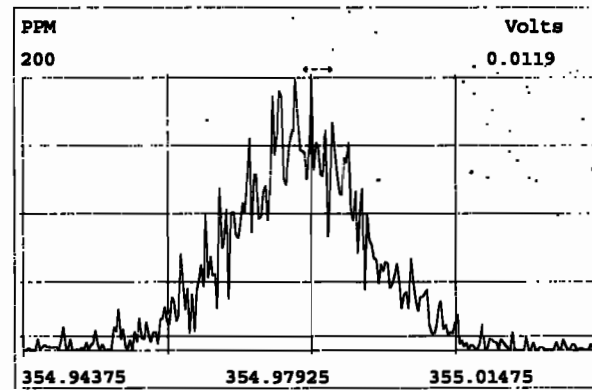
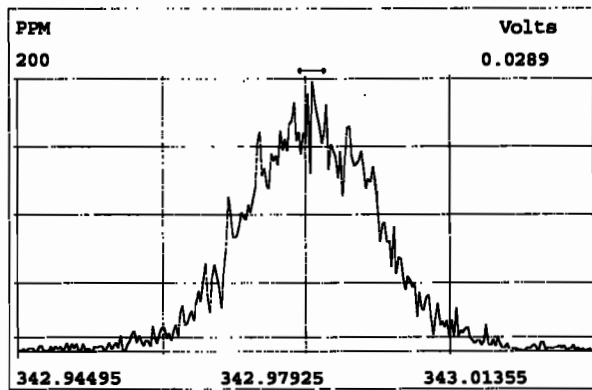
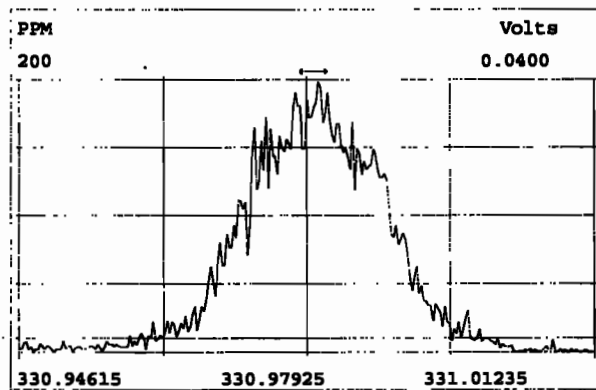
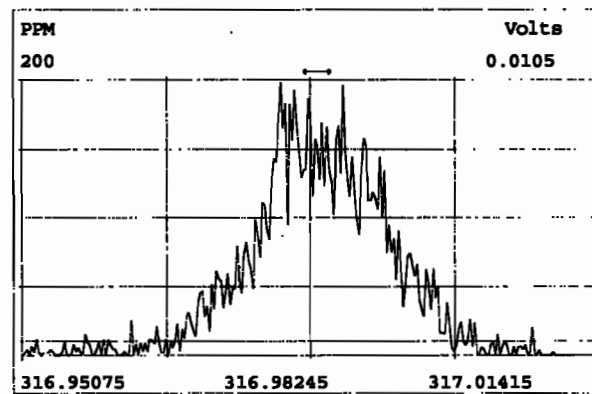
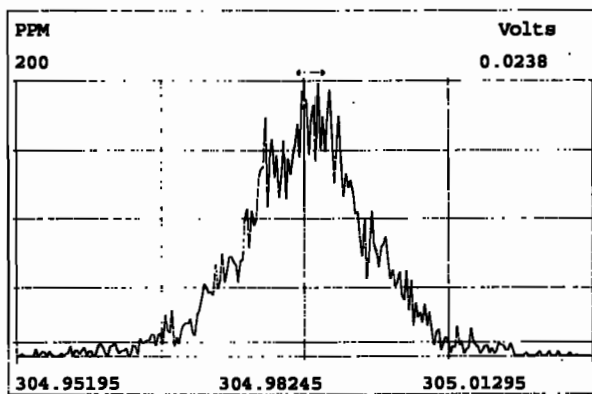
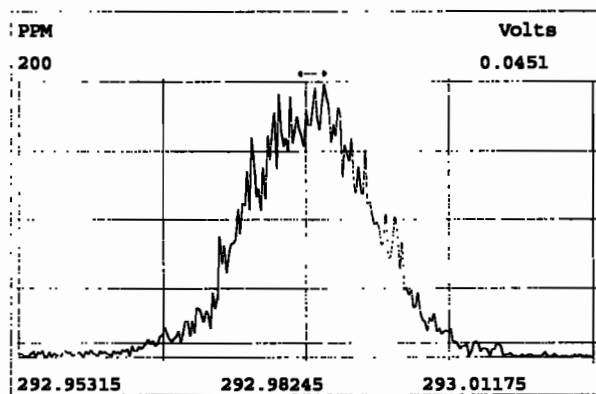


File:191216D1 #1-1682 Acq:16-DEC-2019 14:33:44 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG7 Text:ST191216D1-1 1613 CS3 19C2204 Exp:TCDF_DB225
303.9016 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:191216D1 #1-1682 Acq:16-DEC-2019 14:33:44 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text:Vista Analytical Laboratory VG7 Text:ST191216D1-1 1613 CS3 19C2204 Exp:TCDF_DB225
 331.9368 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)





HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200109D2-1

Reviewed By: CT 01/10/2020
Initials & Date

End Calibration ID: NA

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

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

Intergrated peaks display correctly?

GC Break <20% NA

8280 CS1 End Standard:

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

Comments:

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.:

CCAL ID: ST200109D2-1

Contract No.: SAS No.:

Initial Calibration Date: 10-9-19

Instrument ID: VG-7

GC Column ID: ZB-5MS

VER Data Filename: 200109D2 S#1 Analysis Date: 9-JAN-20 Time: 22:42:55

NATIVE ANALYTES	M/Z'S	ION	QC	Pass	CONC. FOUND	CONC. RANGE (3) (ng/mL)
	FORMING RATIO (1)	ABUND. RATIO	LIMITS (2)			
2,3,7,8-TCDD	M/M+2	0.78	0.65-0.89	y	11.2	7.8 - 12.9 8.2 - 12.3 (4)
1,2,3,7,8-PeCDD	M/M+2	0.62	0.54-0.72	y	53.8	39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.23	1.05-1.43	y	49.9	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	54.4	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.22	1.05-1.43	y	53.1	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.05	0.88-1.20	y	47.7	43.0 - 58.0
OCDD	M+2/M+4	0.87	0.76-1.02	y	101	79.0 - 126.0
2,3,7,8-TCDF	M/M+2	0.76	0.65-0.89	y	9.57	8.4 - 12.0 8.6 - 11.6 (4)
1,2,3,7,8-PeCDF	M+2/M+4	1.52	1.32-1.78	y	54.4	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.49	1.32-1.78	y	52.5	41.0 - 61.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.25	1.05-1.43	y	46.0	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.20	1.05-1.43	y	45.8	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.21	1.05-1.43	y	47.9	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.20	1.05-1.43	y	46.8	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.03	0.88-1.20	y	45.0	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	0.99	0.88-1.20	y	45.2	43.0 - 58.0
OCDF	M+2/M+4	0.87	0.76-1.02	y	89.7	63.0 - 159.0

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(3) Contract-required concentration range as specified in Table 6, Method 1613.

(4) Contract-required concentration range as specified in Table 6a, Method 1613, for tetras only.

Analyst: DB

Date: 1/10/20

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 10-9-19

Instrument ID: VG-7

GC Column ID: ZB-SMS

VER Data Filename: 200109D2 S#1 Analysis Date: 9-JAN-20 Time: 22:42:55

LABELLED COMPOUNDS	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	Pass	CONC. FOUND	CONC. RANGE (ng/mL)
13C-2,3,7,8-TCDD	M/M+2	0.79	0.65-0.89	y	110	82.0 - 121.0
13C-1,2,3,7,8-PeCDD	M/M+2	0.63	0.54-0.72	y	109	62.0 - 160.0
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.28	1.05-1.43	y	115	85.0 - 117.0
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.22	1.05-1.43	y	94.6	85.0 - 118.0
13C-1,2,3,7,8,9-HxCDD	M+2/M+4	1.26	1.05-1.43	y	103	85.0 - 118.0
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.07	0.88-1.20	y	122	72.0 - 138.0
13C-OCDD	M/M+2	0.89	0.76-1.02	y	268	96.0 - 415.0
13C-2,3,7,8-TCDF	M+2/M+4	0.78	0.65-0.89	y	110	71.0 - 140.0
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.65	1.32-1.78	y	109	76.0 - 130.0
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.60	1.32-1.78	y	109	77.0 - 130.0
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.50	0.43-0.59	y	113	76.0 - 131.0
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	106	70.0 - 143.0
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	105	73.0 - 137.0
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.51	0.43-0.59	y	113	74.0 - 135.0
13C-1,2,3,4,6,7,8-HpCDF	M+2/M+4	0.45	0.37-0.51	y	109	78.0 - 129.0
13C-1,2,3,4,7,8,9-HpCDF	M+2/M+4	0.45	0.37-0.51	y	123	77.0 - 129.0
13C-OCDF	M+2/M+4	0.89	0.76-1.02	y	268	96.0 - 415.0
CLEANUP STANDARD (3)						
37C1-2,3,7,8-TCDD					9.81	7.9 - 12.7

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified

(3) No ion abundance ratio; report concentration found.

Analyst: DB

Date: 1/10/20

FORM 5
PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Instrument ID: VG-7 Initial Calibration Date: 10-9-19

RT Window Data Filename: 200109D2 S#1 Analysis Date: 9-JAN-20 Time: 22:42:55

ZB-5MS IS Data Filename: 200109D2 S#1 Analysis Date: 9-JAN-20 Time: 22:42:55

DE_225 IS Data Filename: Analysis Date: Time:

ZB-5MS RT WINDOW DEFINING STANDARDS RESULTS

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	22:32	1,3,6,8-TCDF (F)	20:23
1,2,8,9-TCDD (L)	26:52	1,2,8,9-TCDF (L)	27:01
1,2,4,7,9-PeCDD (F)	28:30	1,3,4,6,8-PeCDF (F)	26:59
1,2,3,8,9-PeCDD (L)	30:56	1,2,3,8,9-PeCDF (L)	31:10
1,2,4,6,7,9-HxCDD (F)	32:21	1,2,3,4,6,8-HxCDF (F)	31:49
1,2,3,7,8,9-HxCDD (L)	34:17	1,2,3,7,8,9-HxCDF (L)	34:40
1,2,3,4,6,7,9-HpCDD (F)	36:53	1,2,3,4,6,7,8-HpCDF (F)	36:30
1,2,3,4,6,7,8-HpCDD (L)	37:46	1,2,3,4,7,8,9-HpCDF (L)	38:18

(F) = First eluting isomer (ZB-5MS); (L) = Last eluting isomer (ZB-5MS).

ISOMER SPECIFICITY (IS) TEST STANDARD RESULTS

‡ VALLEY HEIGHT
BETWEEN
COMPARED PEAKS (1)

<25‡

(1) To meet contract requirements, ‡Valley Height Between Compared Peaks shall not exceed 25‡ (section 15.4.2.2, Method 1613).

Analyst: DB

Date: 1/10/20

FORM 6A
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 10-9-19

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 200109D2 S#1 Analysis Date: 9-JAN-20 Time: 22:42:55

Compounds Using 13C-1234-TCDD as RT Internal Standard

NATIVE ANALYTES	RETENTION TIME	RRT	RRT
	REFERENCE		QC LIMITS (1)
2,3,7,8-TCDD	13C-2,3,7,8-TCDD	1.001	0.999-1.002
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD	1.001	0.999-1.002
2,3,7,8-TCDF	13C-2,3,7,8-TCDF	1.001	0.999-1.003
1,2,3,7,8-PeCDF	13C-1,2,3,7,8-PeCDF	1.000	0.999-1.002
2,3,4,7,8-PeCDF	13C-2,3,4,7,8-PeCDF	1.001	0.999-1.002

LABELED COMPOUNDS

13C-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.022	0.976-1.043
13C-1,2,3,7,8-PeCDD	13C-1,2,3,4-TCDD	1.202	1.000-1.567
13C-2,3,7,8-TCDF	13C-1,2,3,4-TCDD	0.991	0.923-1.103
13C-1,2,3,7,8-PeCDF	13C-1,2,3,4-TCDD	1.156	1.000-1.425
13C-2,3,4,7,8-PeCDF	13C-1,2,3,4-TCDD	1.191	1.011-1.526
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.023	0.989-1.052

Analyst: DB

Date: 1/10/20

FORM 6B
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 10-9-19

Instrument ID: VG-7

GC Column ID: ZB-5MS

VER Data Filename: 200109D2 S#1 Analysis Date: 9-JAN-20 Time: 22:42:55

NATIVE ANALYTBS	RETENTION TIME		RRT	QC LIMITS (1)
	REFERENCE	RRT		
1,2,3,4,7,8-HxCDF	13C-1,2,3,4,7,8-HxCDF	1.000	0.999-1.001	
1,2,3,6,7,8-HxCDF	13C-1,2,3,6,7,8-HxCDF	1.000	0.997-1.005	
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF	1.001	0.999-1.001	
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF	1.000	0.999-1.001	
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD	1.000	0.999-1.001	
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.000	0.998-1.004	
1,2,3,7,8,9-HxCDD	13C-1,2,3,7,8,9-HxCDD	1.000	0.998-1.004	
1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,7,8-HpCDF	1.000	0.999-1.001	
1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,7,8-HpCDD	1.000	0.999-1.001	
1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,7,8,9-HpCDF	1.000	0.999-1.001	
OCDD	13C-OCDD	1.000	0.999-1.001	
OCDF	13C-OCDF	1.000	0.999-1.001	

LABELED COMPOUNDS

13C-1,2,3,4,7,8-HxCDF	13C-1,2,3,4,6,9-HxCDF	0.988	0.975-1.001
13C-1,2,3,6,7,8-HxCDF	13C-1,2,3,4,6,9-HxCDF	0.991	0.979-1.005
13C-2,3,4,6,7,8-HxCDF	13C-1,2,3,4,6,9-HxCDF	1.009	1.001-1.020
13C-1,2,3,7,8,9-HxCDF	13C-1,2,3,4,6,9-HxCDF	1.038	1.002-1.072
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.014	1.002-1.026
13C-1,2,3,6,7,8-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.017	1.007-1.029
13C-1,2,3,7,8,9-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.026	1.014-1.038
13C-1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,9-HxCDF	1.093	1.069-1.111
13C-1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,6,9-HxCDF	1.147	1.098-1.192
13C-1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,9-HxCDF	1.131	1.117-1.141
13C-OCDD	13C-1,2,3,4,6,9-HxCDF	1.228	1.085-1.365
13C-OCDF	13C-1,2,3,4,6,9-HxCDF	1.235	1.091-1.371

Analyst: DB

Date: 1/10/20

Client ID: 1613 CS3 19I1604
Lab ID: ST200109D2-1

Filename: 200109D2 S:1 Acq: 9-JAN-20 22:42:55
GC Column ID: ZB-5MS ICal: 1613VG7-10-9-19 wt/vol: 1.000

ConCal: ST200109D2-1
EndCAL: NA

Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	7.95e+05	0.78 y	0.91	26:00	11.181			* 2.5	*	Total Tetra-Dioxins	90.4	91.3		*	*
1,2,3,7,8-PeCDD	3.05e+06	0.62 y	0.90	30:34	53.838			* 2.5	*	Total Penta-Dioxins	222	222		*	*
1,2,3,4,7,8-HxCDD	3.32e+06	1.23 y	1.10	33:52	49.871			* 2.5	*	Total Hexa-Dioxins	243	244		*	*
1,2,3,6,7,8-HxCDD	3.37e+06	1.25 y	0.94	33:59	54.391			* 2.5	*	Total Hepta-Dioxins	118	120		*	*
1,2,3,7,8,9-HxCDD	3.47e+06	1.22 y	0.96	34:17	53.131			* 2.5	*	Total Tetra-Furans	40.5	41.4		*	*
1,2,3,4,6,7,8-HpCDD	3.05e+06	1.05 y	0.98	37:46	47.699			* 2.5	*	Total Penta-Furans	247.06	248.10		*	*
OCDD	6.11e+06	0.87 y	0.96	41:01	100.58			* 2.5	*	Total Hexa-Furans	257	258		*	*
										Total Hepta-Furans	90.6	91.2		*	*
2,3,7,8-TCDF	1.06e+06	0.76 y	0.95	25:12	9.5715			* 2.5	*						
1,2,3,7,8-PeCDF	4.97e+06	1.52 y	0.96	29:23	54.419			* 2.5	*						
2,3,4,7,8-PeCDF	5.03e+06	1.49 y	1.01	30:17	52.547			* 2.5	*						
1,2,3,4,7,8-HxCDF	4.14e+06	1.25 y	1.18	32:59	45.972			* 2.5	*						
1,2,3,6,7,8-HxCDF	4.37e+06	1.20 y	1.07	33:07	45.750			* 2.5	*						
2,3,4,6,7,8-HxCDF	4.36e+06	1.21 y	1.11	33:43	47.929			* 2.5	*						
1,2,3,7,8,9-HxCDF	3.79e+06	1.20 y	1.06	34:40	46.770			* 2.5	*						
1,2,3,4,6,7,8-HpCDF	3.41e+06	1.03 y	1.13	36:30	45.021			* 2.5	*						
1,2,3,4,7,8,9-HpCDF	3.36e+06	0.99 y	1.28	38:18	45.184			* 2.5	*						
OCDF	6.40e+06	0.87 y	0.95	41:14	89.673			* 2.5	*						
IS	13C-2,3,7,8-TCDD	7.86e+06	0.79 y	1.10	25:59	110.21				Rec			Qual		
IS	13C-1,2,3,7,8-PeCDD	6.27e+06	0.63 y	0.88	30:33	109.26				110					
IS	13C-1,2,3,4,7,8-HxCDD	6.05e+06	1.28 y	0.64	33:52	115.38				109					
IS	13C-1,2,3,6,7,8-HxCDD	6.60e+06	1.22 y	0.86	33:58	94.550				115					
IS	13C-1,2,3,7,8,9-HxCDD	6.80e+06	1.26 y	0.81	34:16	103.27				94.6					
IS	13C-1,2,3,4,6,7,8-HpCDD	6.54e+06	1.07 y	0.65	37:45	122.49				103					
IS	13C-OCDD	1.27e+07	0.89 y	0.58	41:00	267.99				122					
IS	13C-2,3,7,8-TCDF	1.16e+07	0.78 y	1.03	25:11	110.30				134					
IS	13C-1,2,3,7,8-PeCDF	9.51e+06	1.65 y	0.85	29:22	109.25				110					
IS	13C-2,3,4,7,8-PeCDF	9.43e+06	1.60 y	0.85	30:16	109.25				109					
IS	13C-1,2,3,4,7,8-HxCDF	7.65e+06	0.50 y	0.83	32:59	112.72				113					
IS	13C-1,2,3,6,7,8-HxCDF	8.94e+06	0.52 y	1.03	33:06	105.90				106					
IS	13C-2,3,4,6,7,8-HxCDF	8.18e+06	0.52 y	0.95	33:42	105.11				105					
IS	13C-1,2,3,7,8,9-HxCDF	7.64e+06	0.51 y	0.83	34:39	113.11				113					
IS	13C-1,2,3,4,6,7,8-HpCDF	6.71e+06	0.45 y	0.76	36:29	108.61				109					
IS	13C-1,2,3,4,7,8,9-HpCDF	5.81e+06	0.45 y	0.58	38:17	122.58				123					
IS	13C-OCDF	1.51e+07	0.89 y	0.69	41:13	268.26				134					
C/Up	37C1-2,3,7,8-TCDD	7.65e+05		1.20	25:60	9.8119				98.1					
RS/RT	13C-1,2,3,4-TCDD	6.51e+06	0.79 y	1.00	25:25	100.00									
RS	13C-1,2,3,4-TCDF	1.02e+07	0.79 y	1.00	23:57	100.00									
RS/RT	13C-1,2,3,4,6,9-HxCDF	8.16e+06	0.52 y	1.00	33:23	100.00									

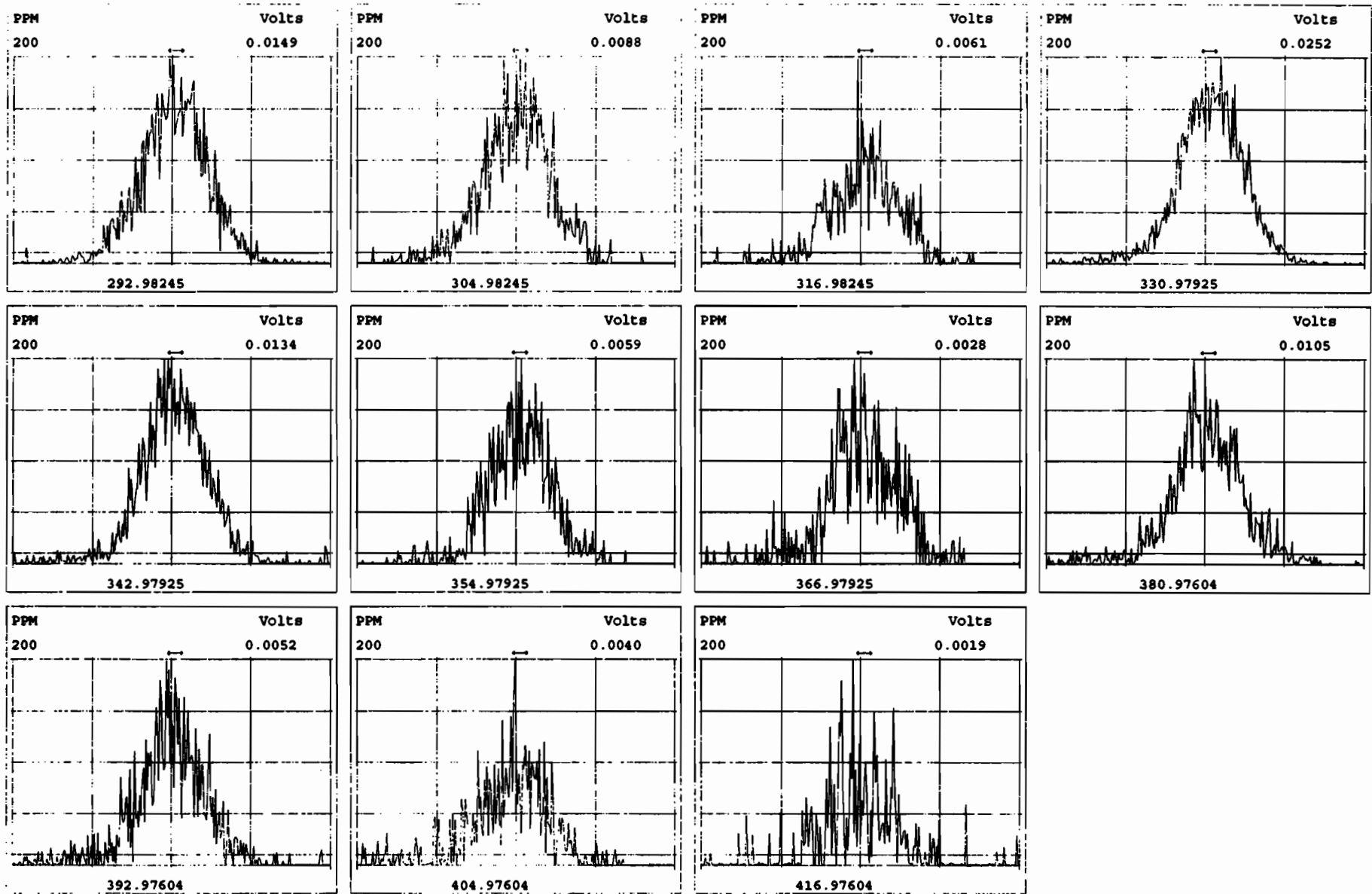
Integrations Reviewed
by Analyst: DB by Analyst: CT
Date: 1/10/20 Date: 01/10/2020

Vista Analytical Laboratory - Injection Log Run file: 200109D2 Instrument ID: VG-7 GC Column ID: ZB-5MS

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
200109D2	1	ST200109D2-1	DB	9-JAN-20	22:42:55	ST200109D2-1	NA
200109D2	2	B9L0200-BS1	DB	9-JAN-20	23:30:46	ST200109D2-1	NA
200109D2	3	B9L0173-BS1	DB	10-JAN-20	00:18:43	ST200109D2-1	NA
200109D2	4	SOLVENT BLANK	DB	10-JAN-20	01:06:38	ST200109D2-1	NA
200109D2	5	B9L0200-BLK1	DB	10-JAN-20	01:54:35	ST200109D2-1	NA
200109D2	6	B9L0173-BLK1	DB	10-JAN-20	02:42:32	ST200109D2-1	NA
200109D2	7	1904021-06RE1	DB	10-JAN-20	03:30:28	ST200109D2-1	NA
200109D2	8	1904246-01	DB	10-JAN-20	04:18:25	ST200109D2-1	NA
200109D2	9	1904246-02	DB	10-JAN-20	05:06:22	ST200109D2-1	NA
200109D2	10	1904246-03@20X	DB	10-JAN-20	05:54:18	ST200109D2-1	NA
200109D2	11	1904246-04	DB	10-JAN-20	06:42:14	ST200109D2-1	NA
200109D2	12	1904246-05	DB	10-JAN-20	07:30:10	ST200109D2-1	NA
200109D2	13	1904246-06	DB	10-JAN-20	08:18:05	ST200109D2-1	NA
200109D2	14	1904246-07@20X	DB	10-JAN-20	09:06:00	ST200109D2-1	NA
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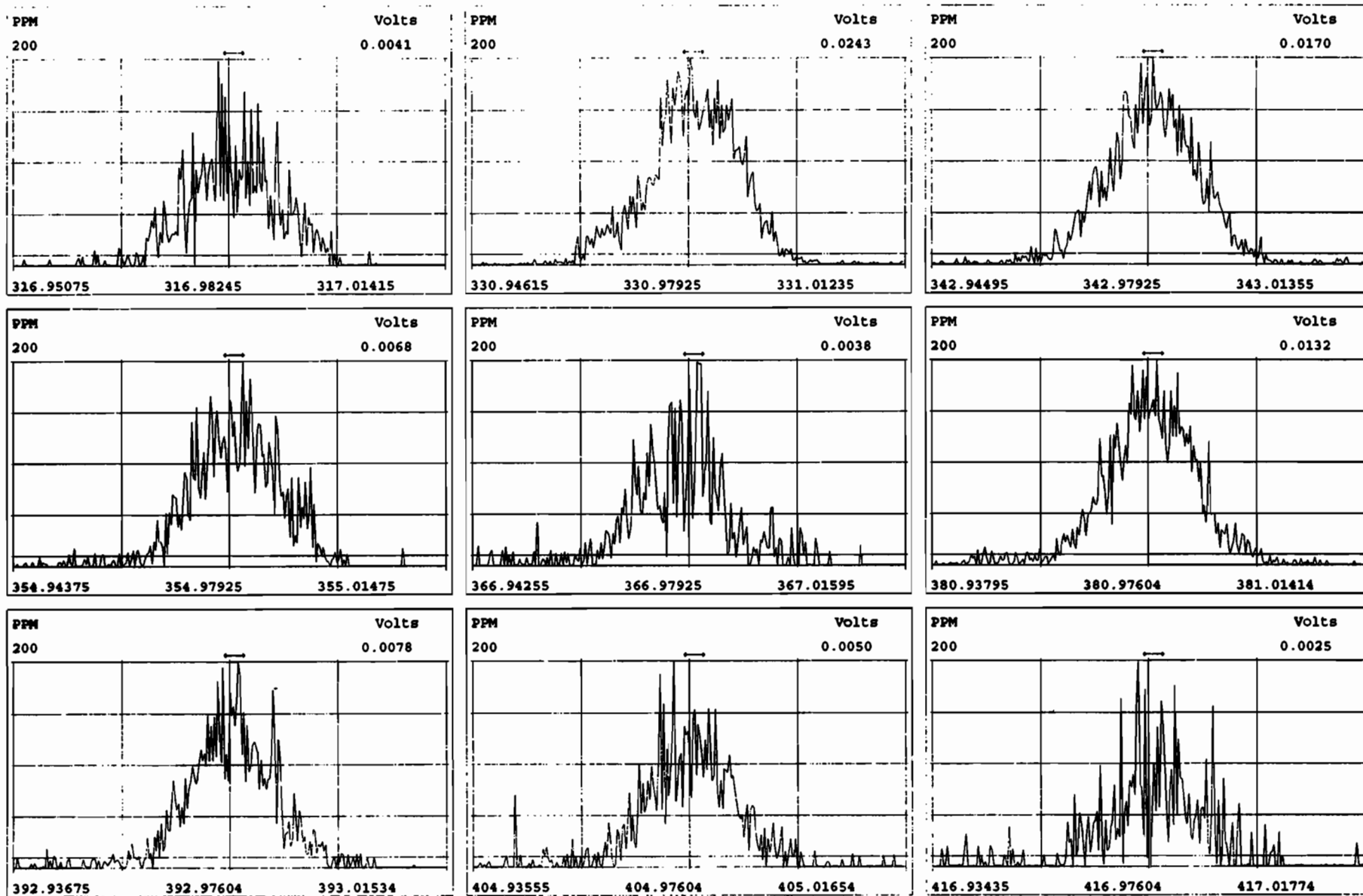
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Experiment:OCDD_DB5 Function:1 Reference:PFK



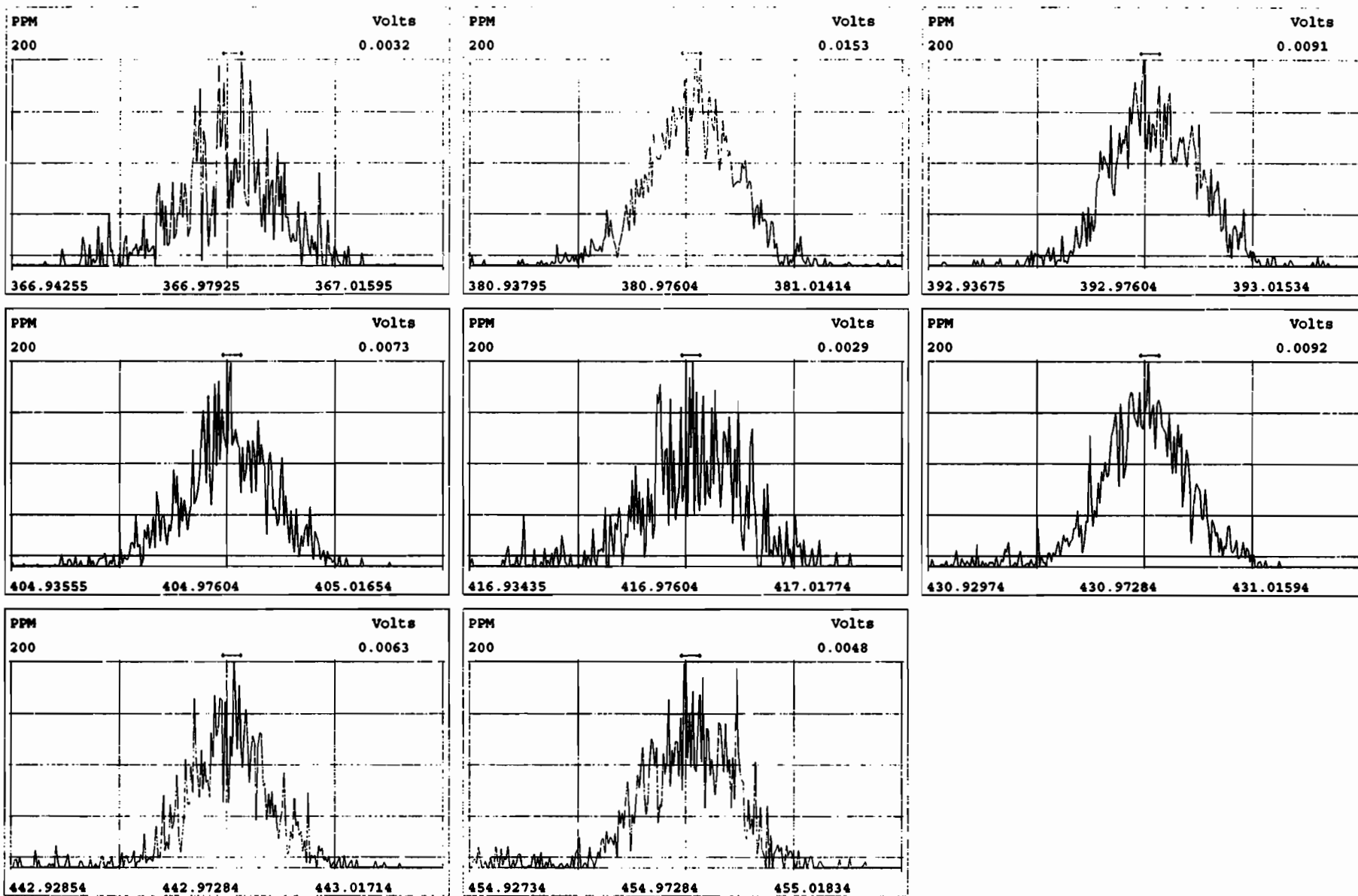
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Experiment:OCDD_DB5 Function:2 Reference:PFK



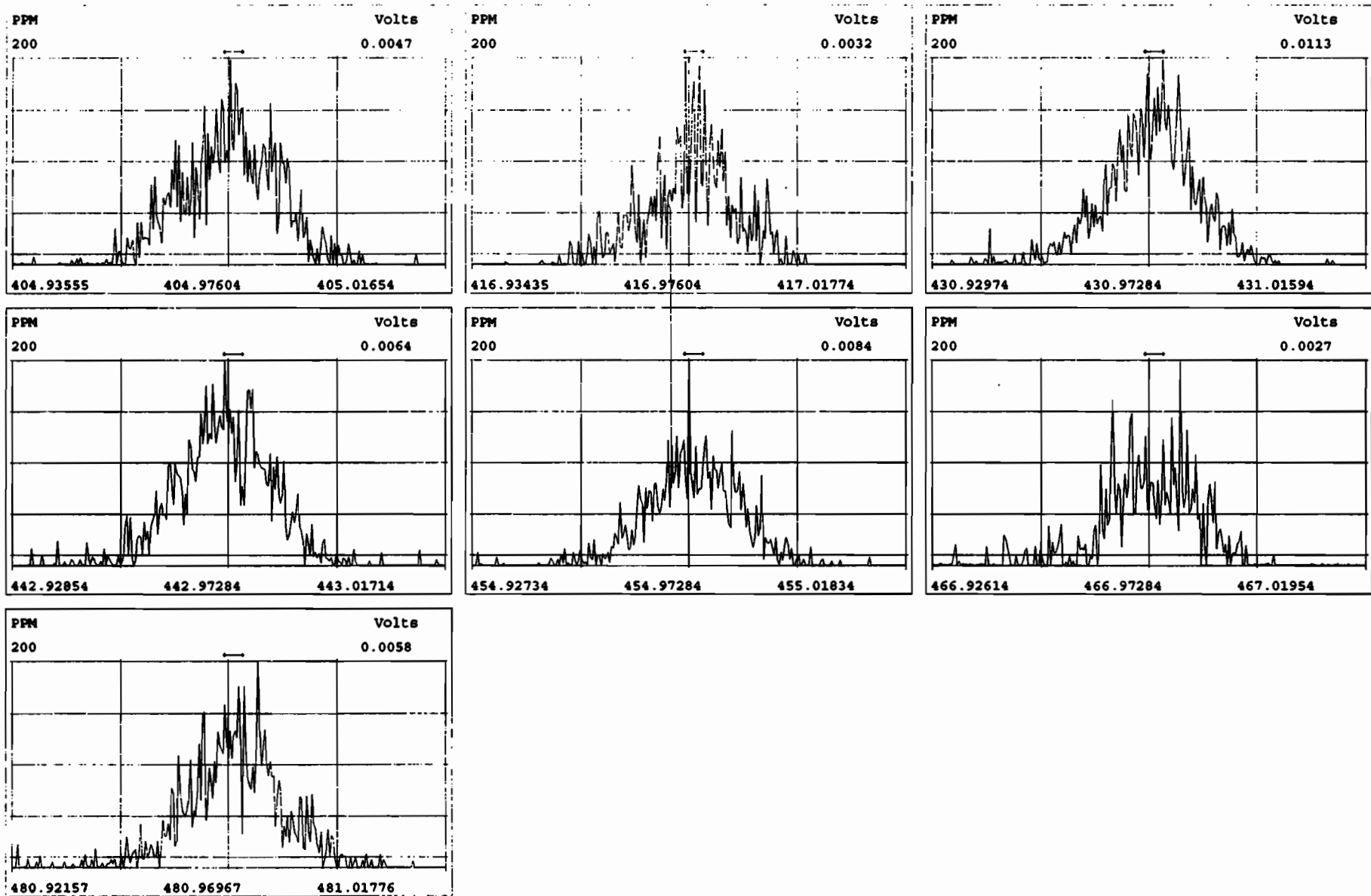
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Experiment:OCDD_DB5 Function:3 Reference:PFK



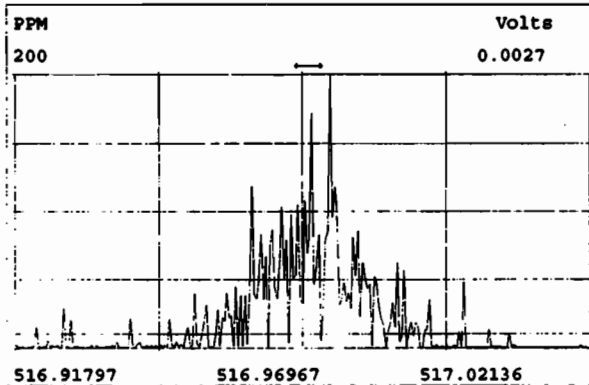
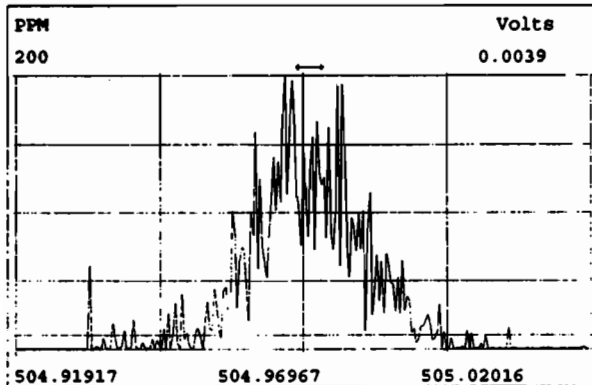
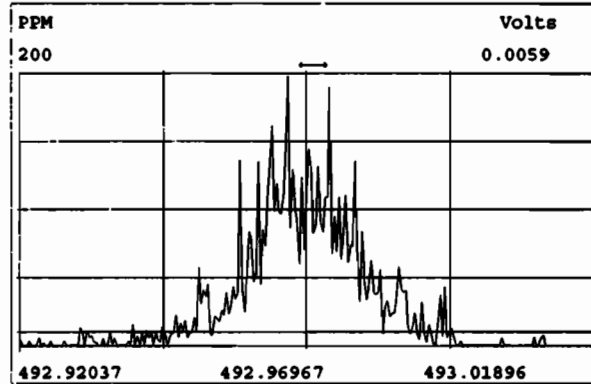
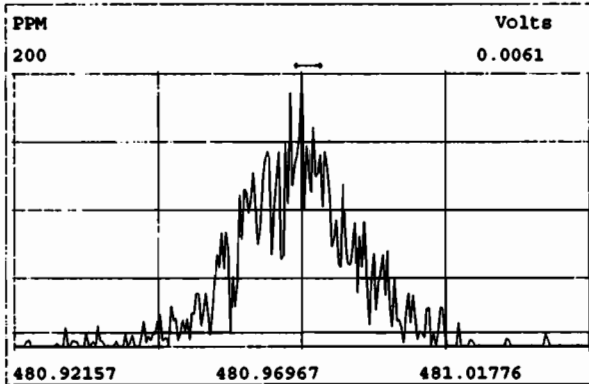
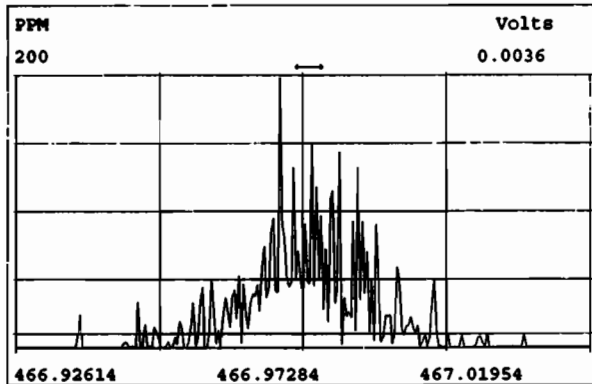
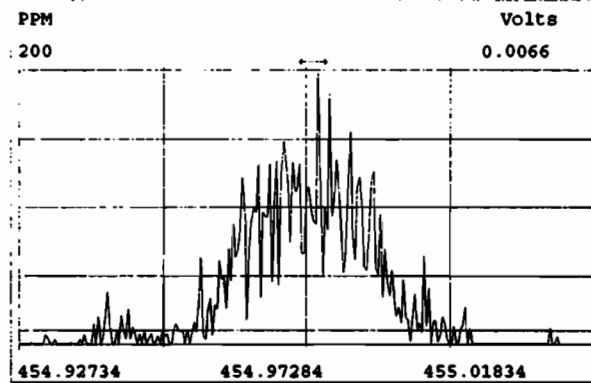
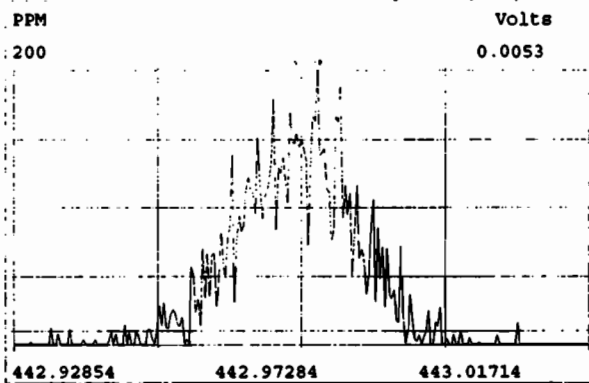
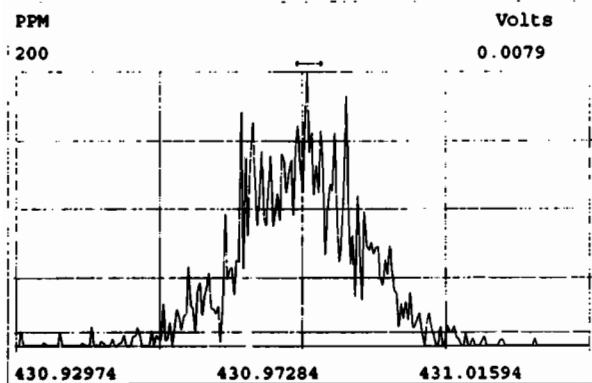
Peak Locate Examination: 9-JAN-2020:22:41 File:RES_CHECK

Experiment:OCDD_DB5 Function:4 Reference:PFK

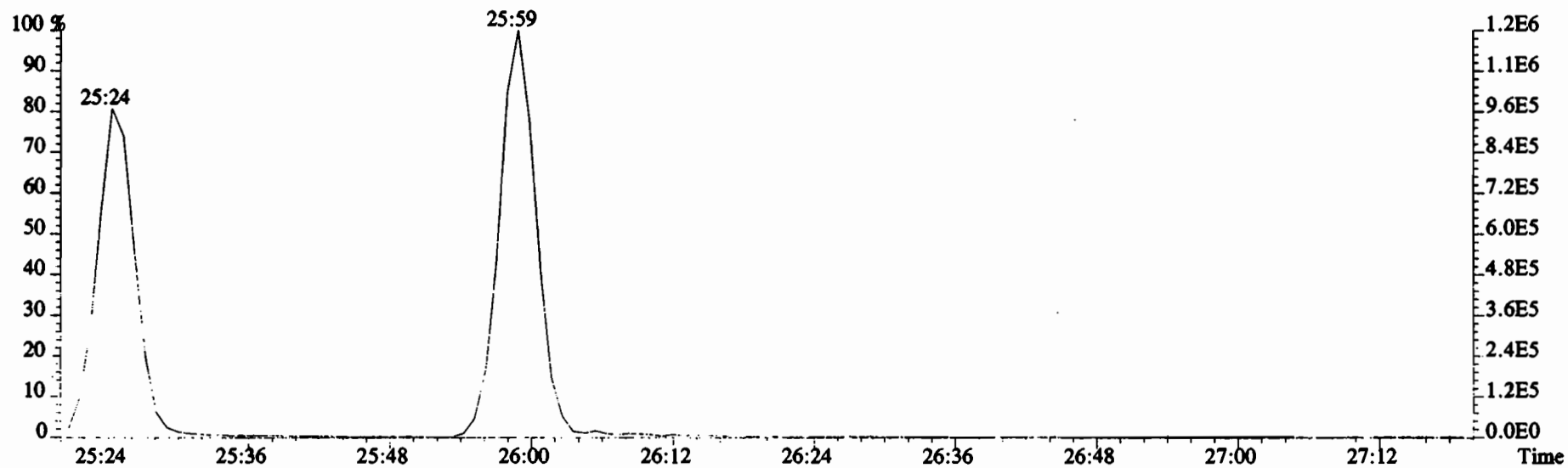
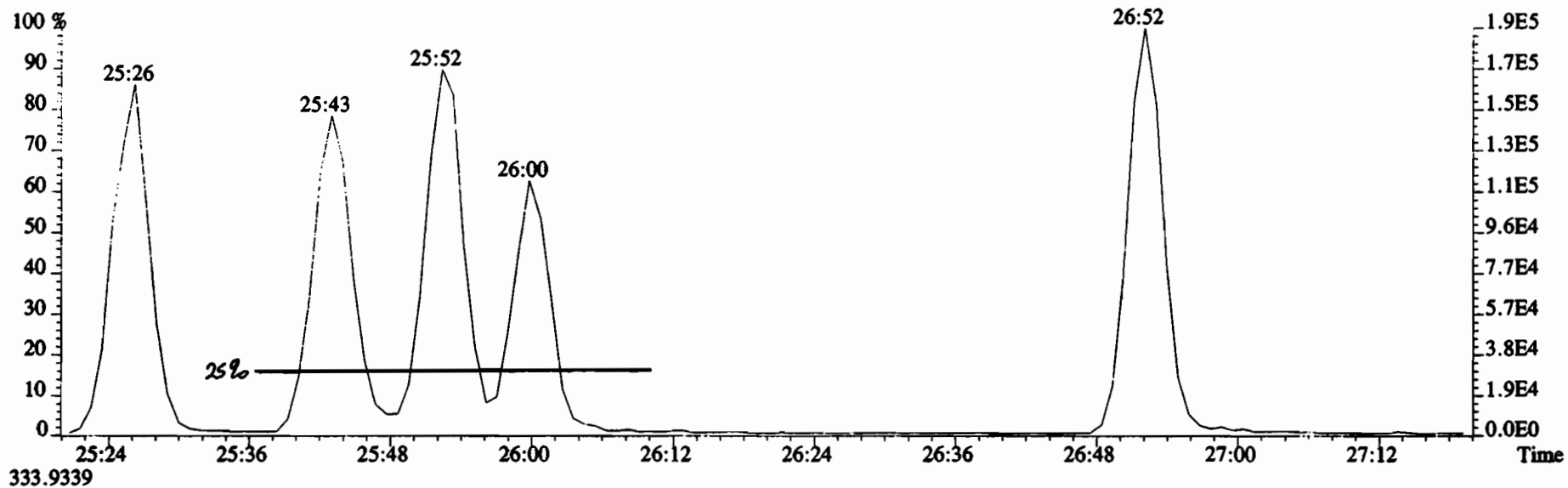


Peak Locate Examination: 9-JAN-2020:22:42 File:RES_CHECK

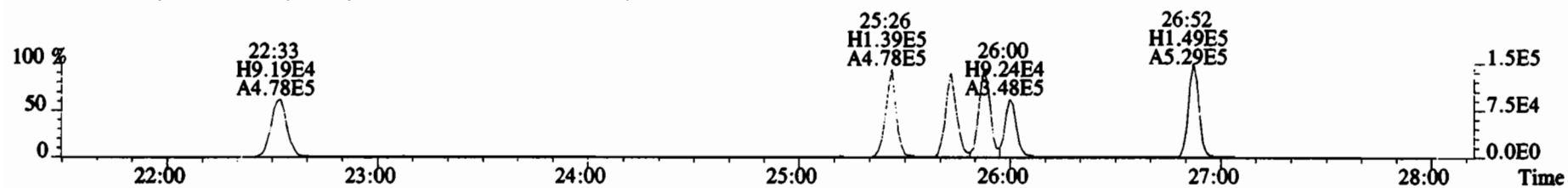
Experiment:OCDD_DB5 Function:5 Reference:PFK



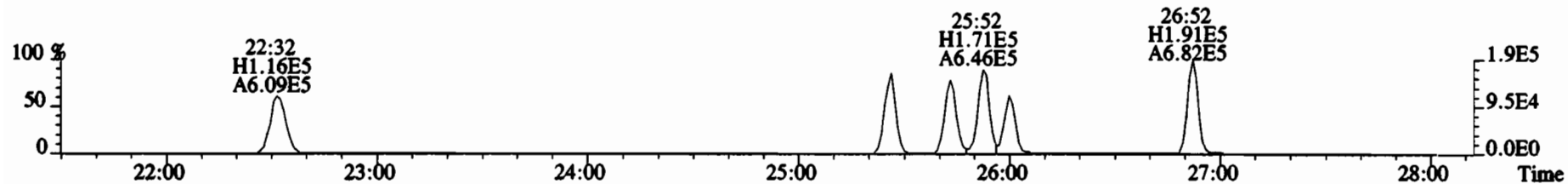
File:200109D2 #1-493 Acq: 9-JAN-2020 22:42:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST200109D2-1 1613 CS3 1911604 Exp:OCDD_DB5
321.8936



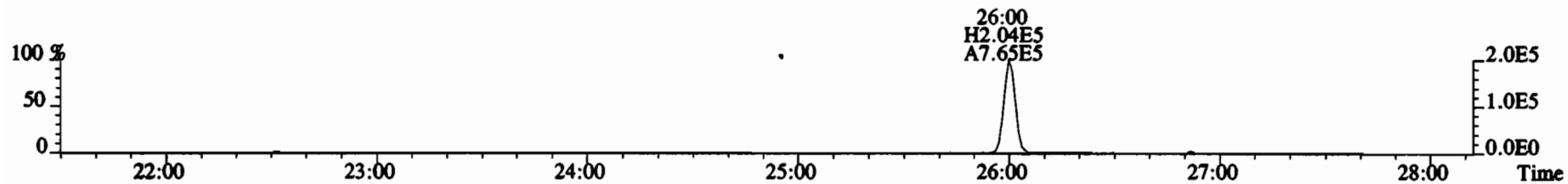
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Sample#1 File Text: Vista Analytical Laboratory_VG7 Text:ST200109D2-1 1613 CS3 1911604 Exp:OCDD_DB5
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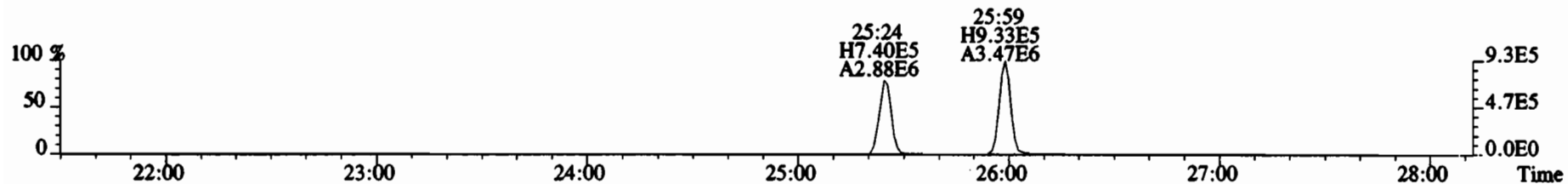
321.8936 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



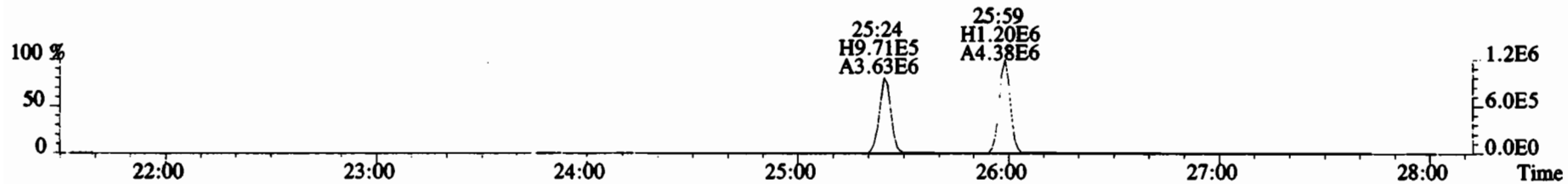
327.8847 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



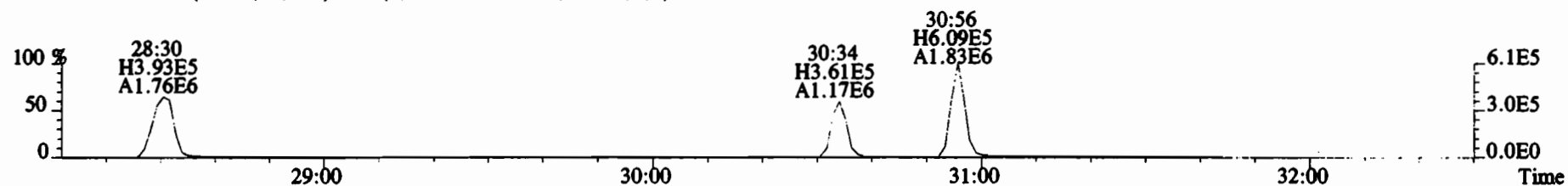
331.9368 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



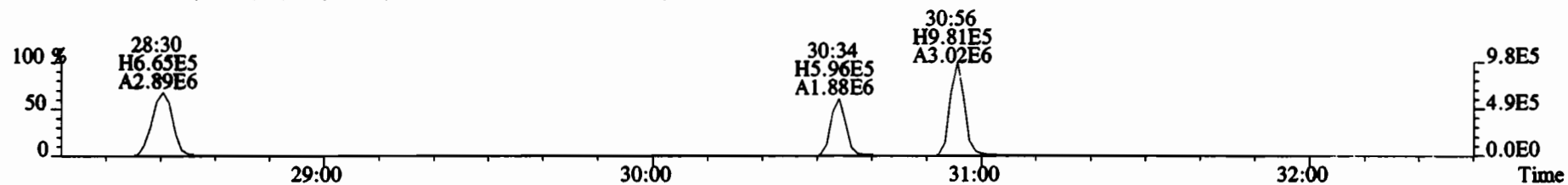
333.9339 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



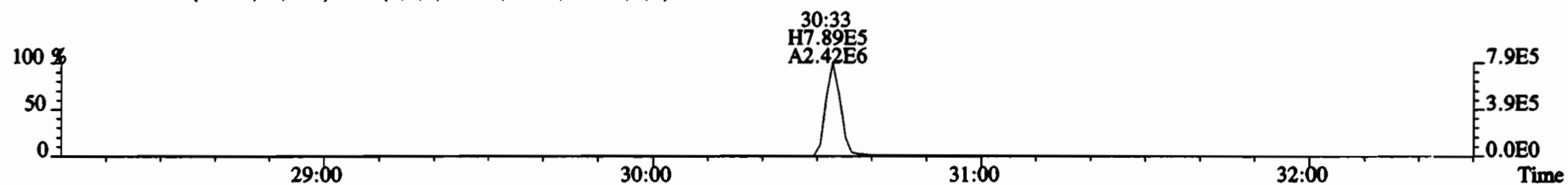
File:200109D2 #1-211 Acq: 9-JAN-2020 22:42:55 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text: Vista_Analytical Laboratory_VG7 Text:ST200109D2-1 1613 CS3 1911604 Exp:OCDD_DB5
 353.8576 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



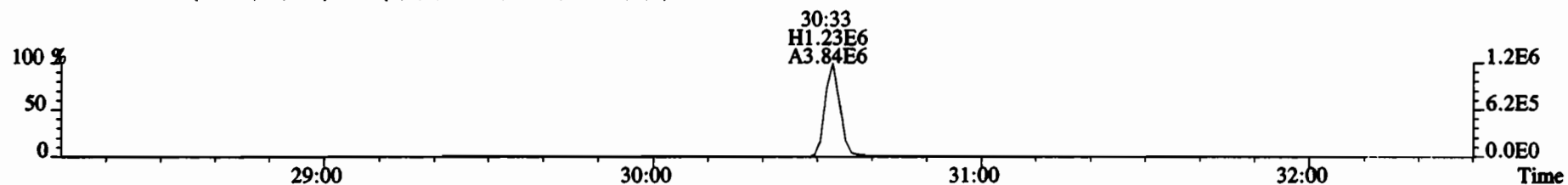
355.8546 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



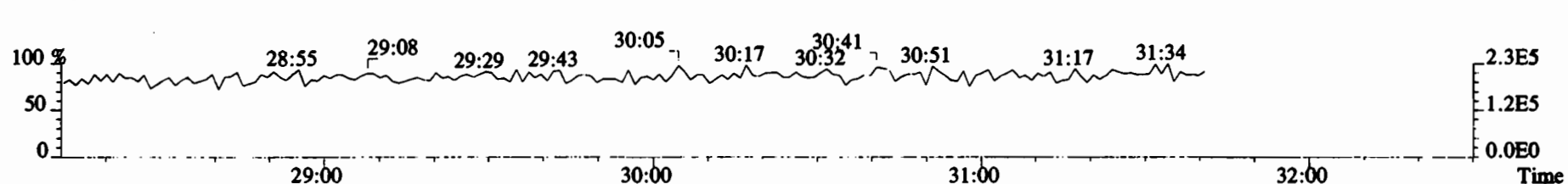
365.8978 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



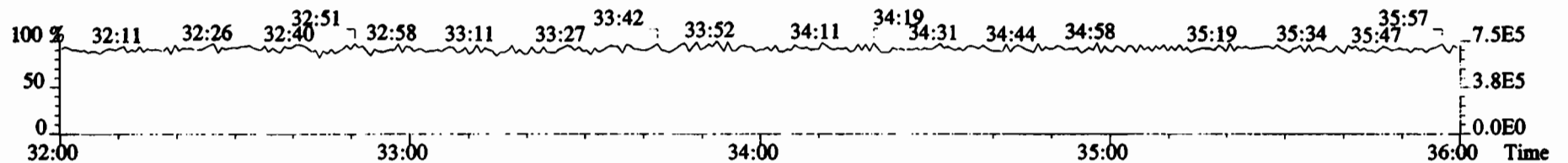
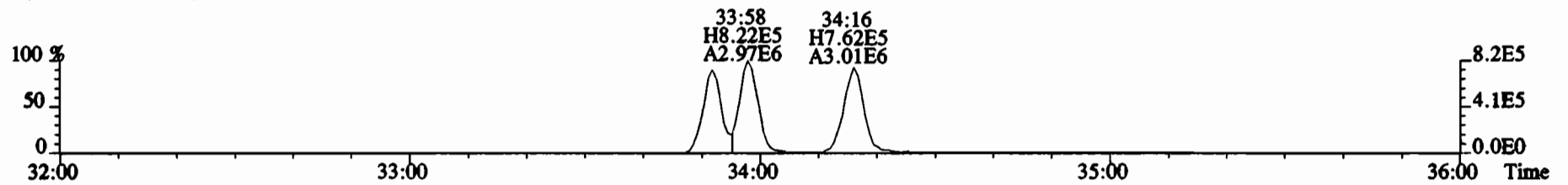
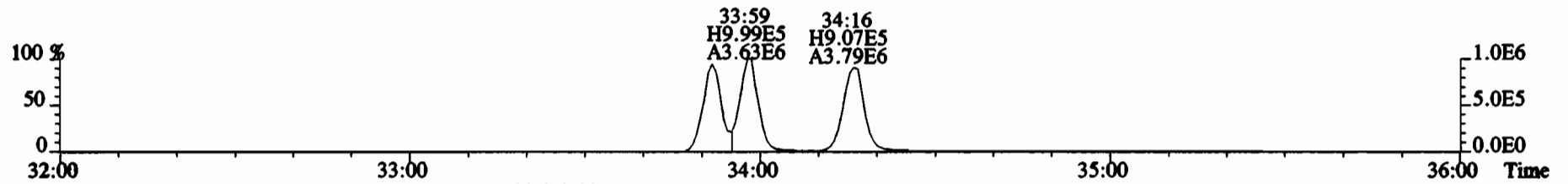
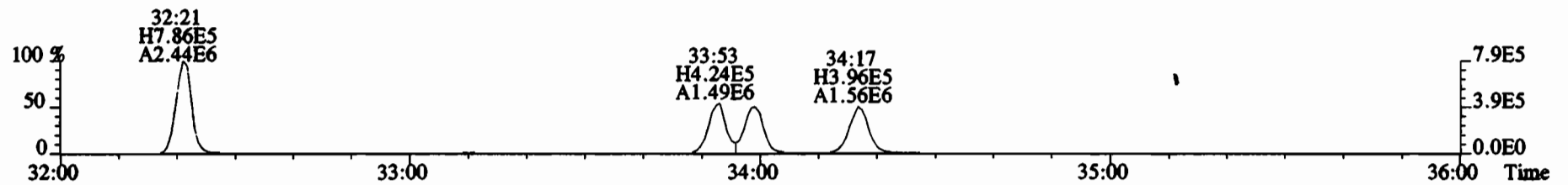
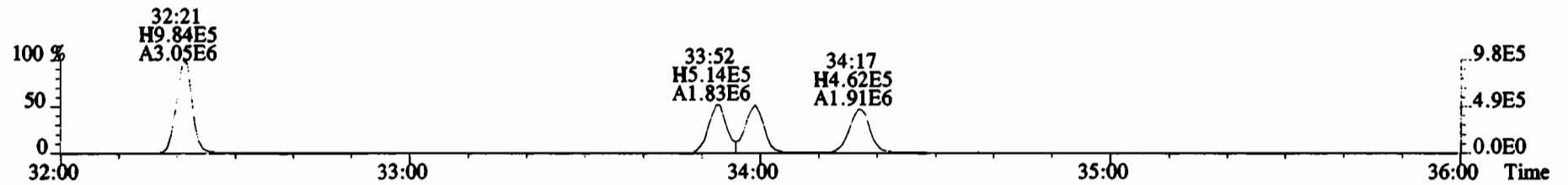
367.8949 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



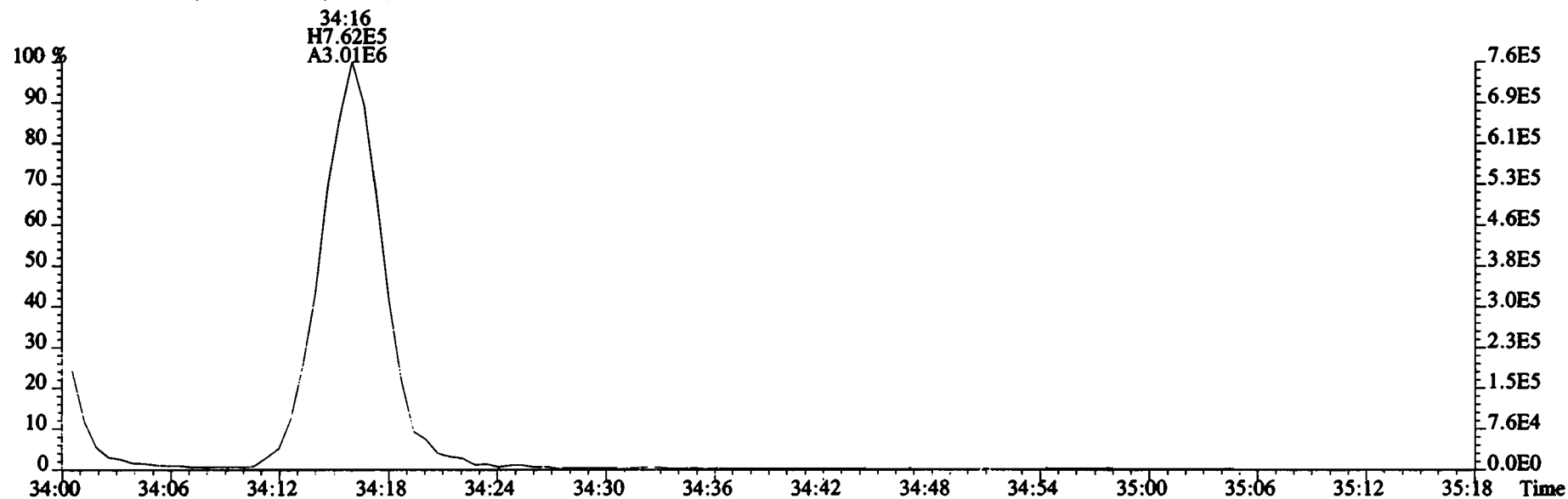
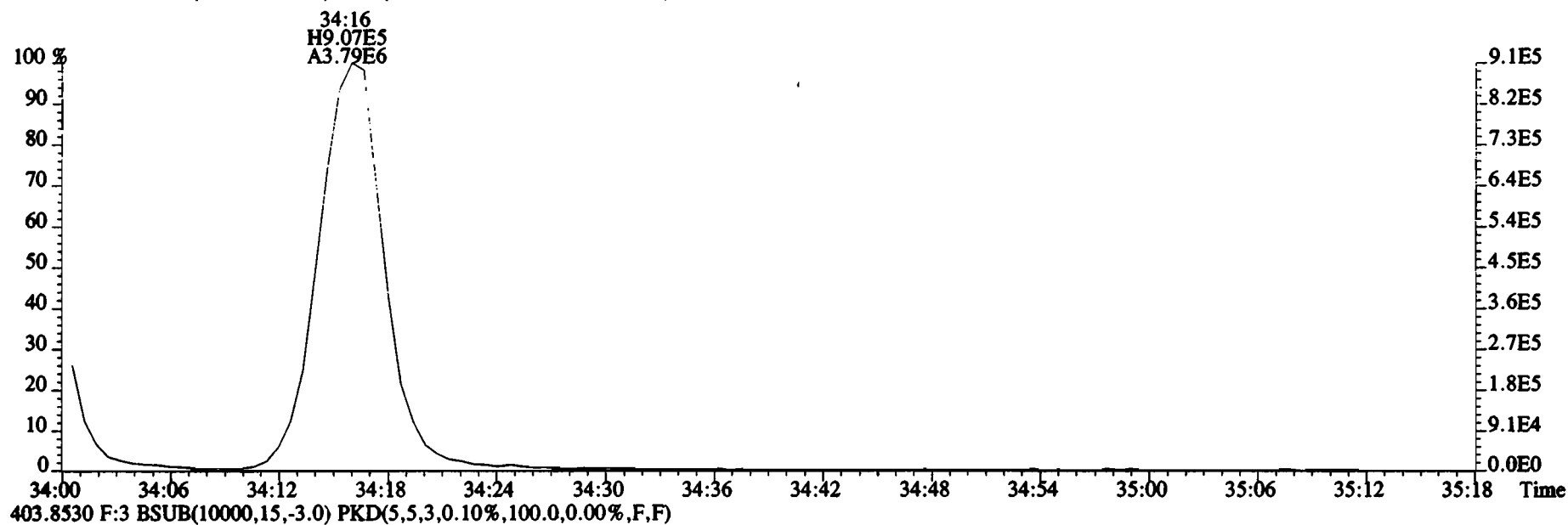
366.9792 F:2



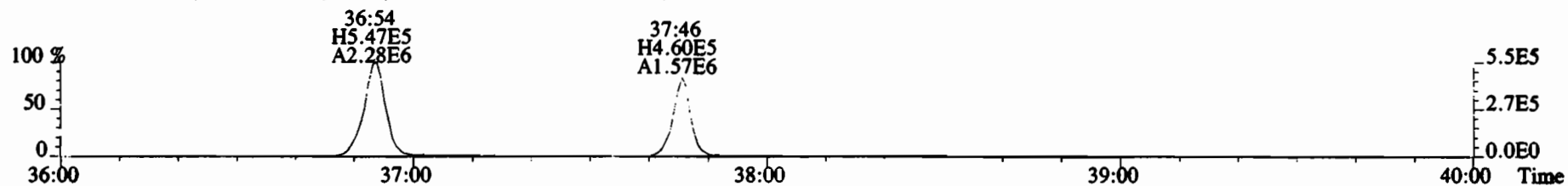
File:200109D2 #1-384 Acq: 9-JAN-2020 22:42:55 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text: Vista Analytical Laboratory_VG7 Text:ST200109D2-1 1613 CS3 1911604 Exp:OCDD_DB5
 389.8156 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



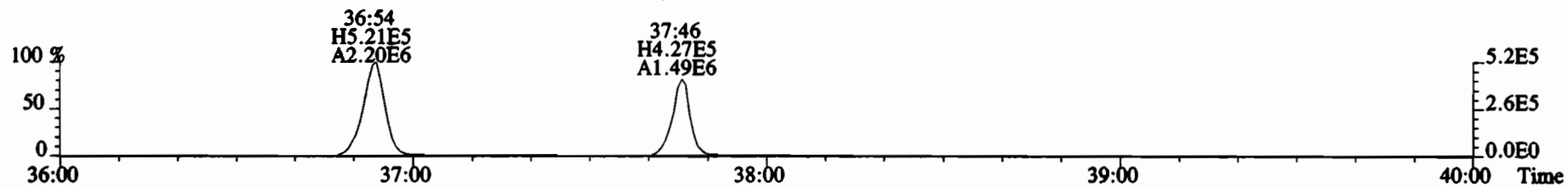
File:200109D2 #1-384 Acq: 9-JAN-2020 22:42:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST200109D2-1 1613 CS3 1911604 Exp:OCDD_DB5
401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



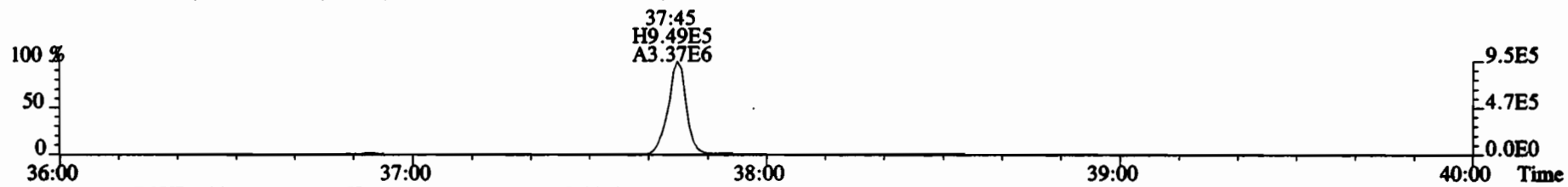
File:200109D2 #1-355 Acq: 9-JAN-2020 22:42:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text: Vista Analytical Laboratory_VG7 Text:ST200109D2-1 1613 CS3 1911604 Exp:OCDD_DB5
423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



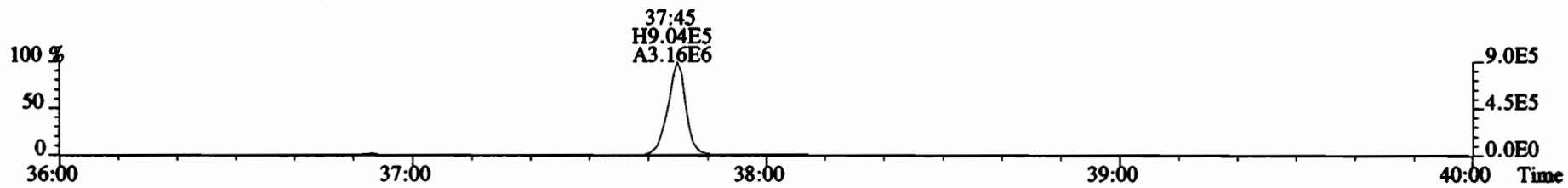
425.7737 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



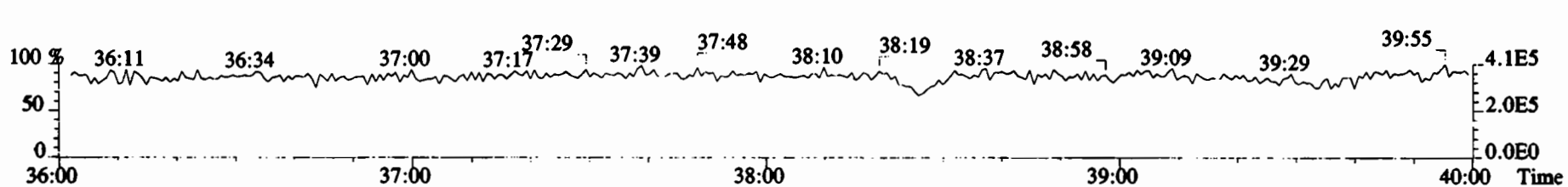
435.8169 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



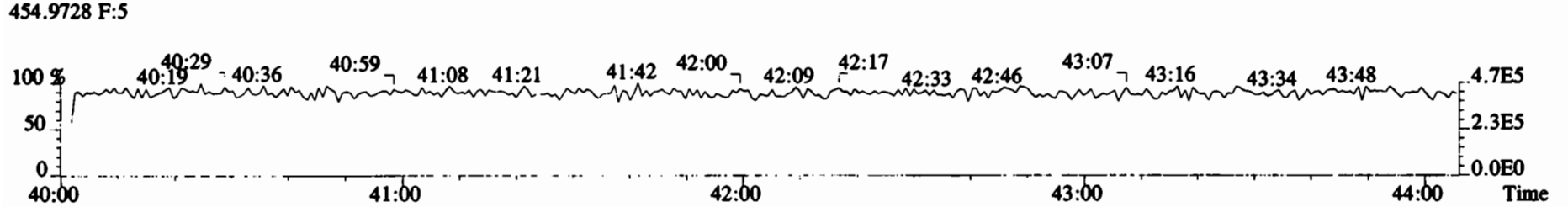
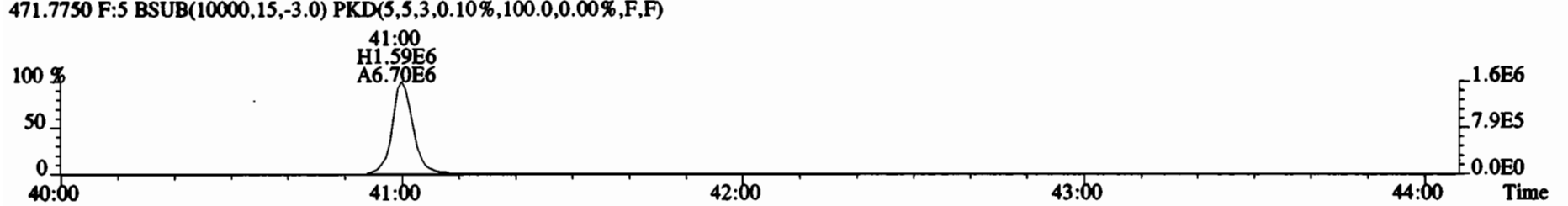
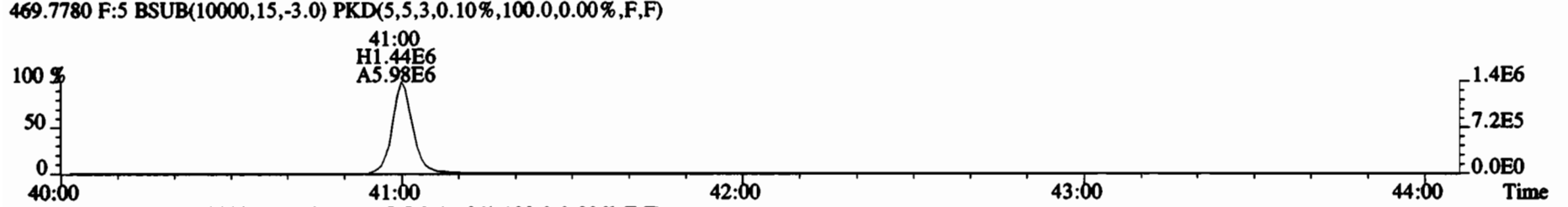
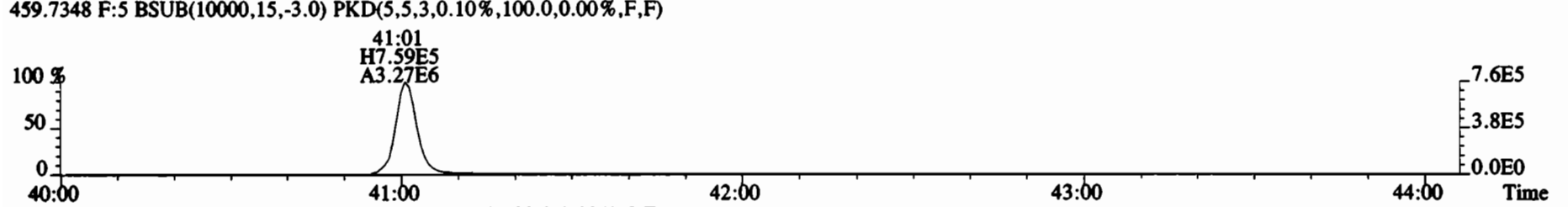
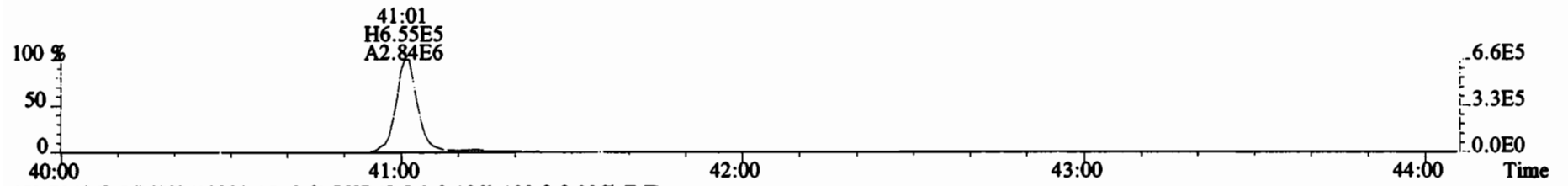
437.8140 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



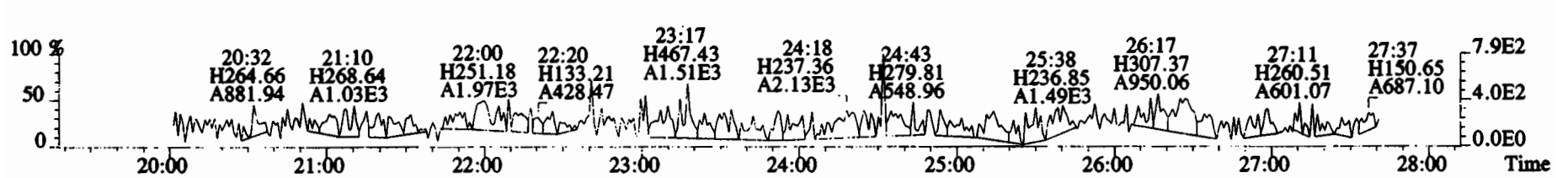
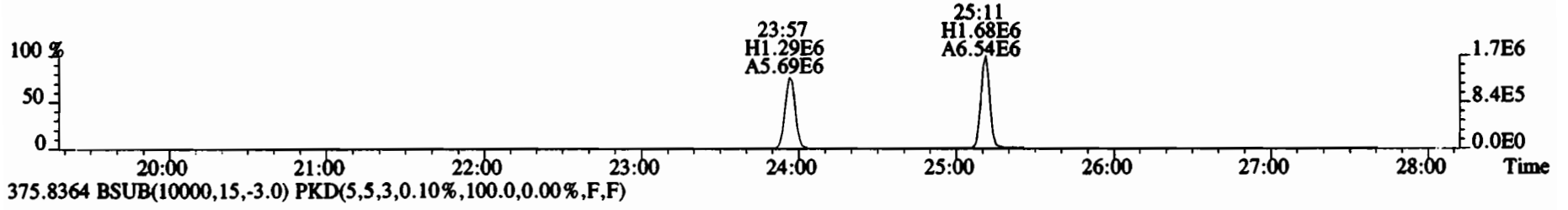
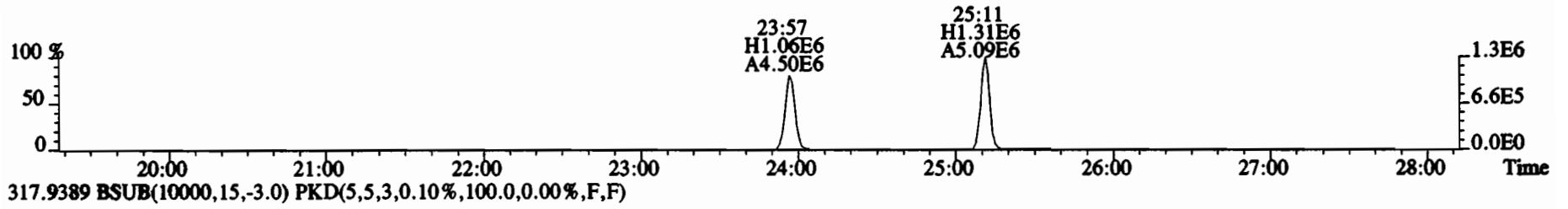
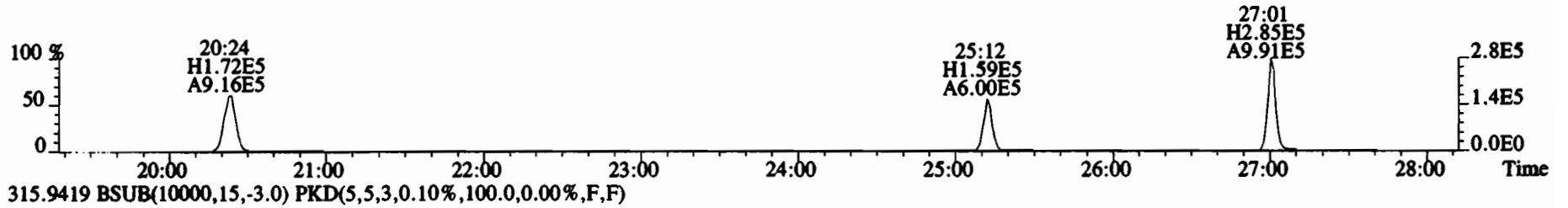
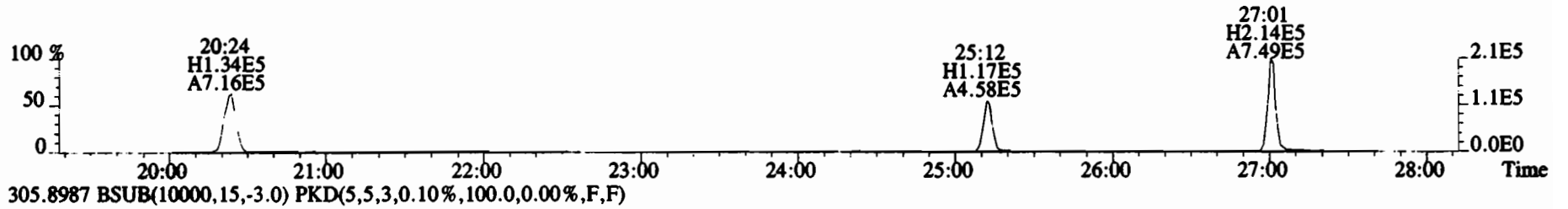
454.9728 F:4



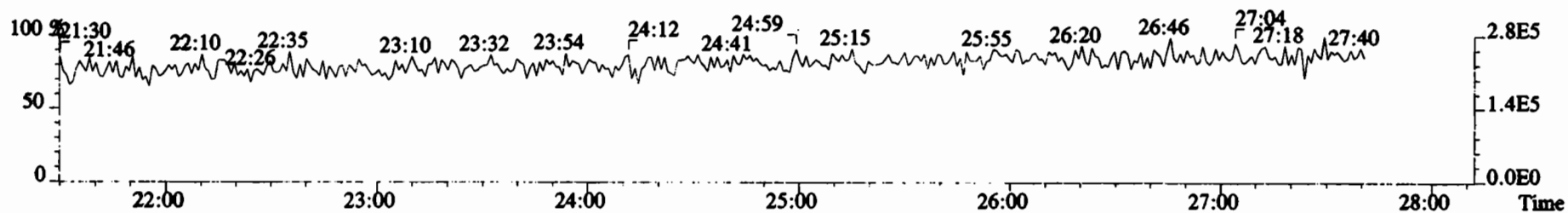
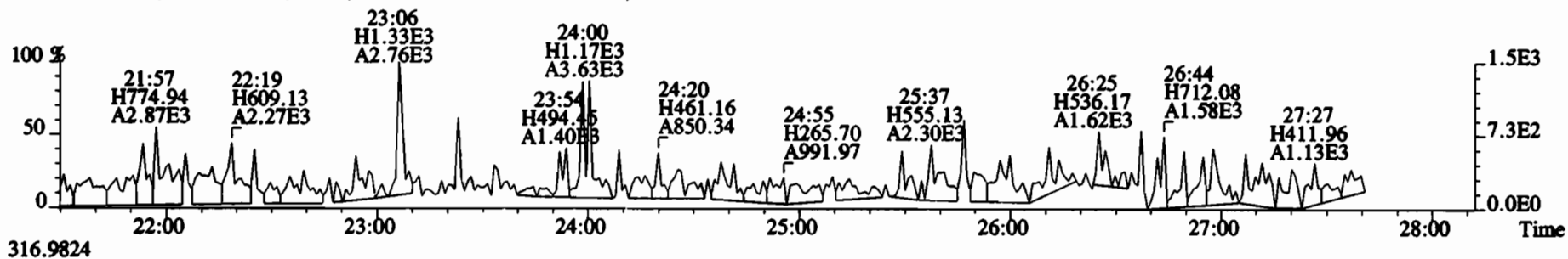
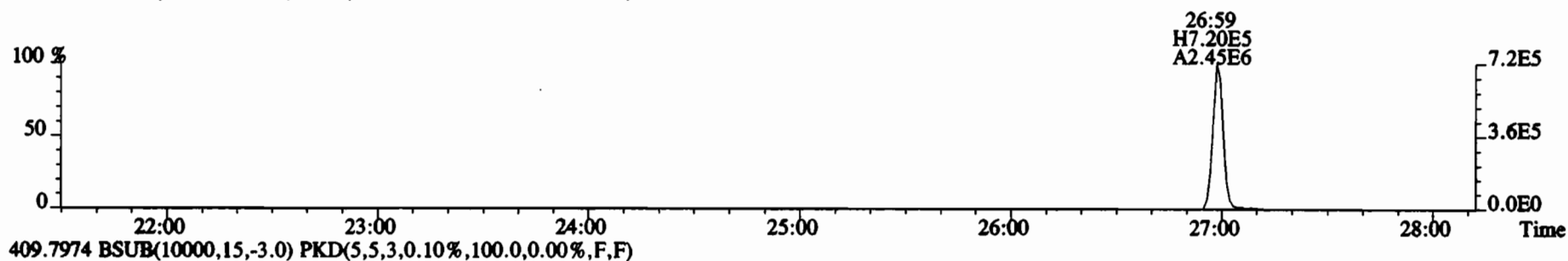
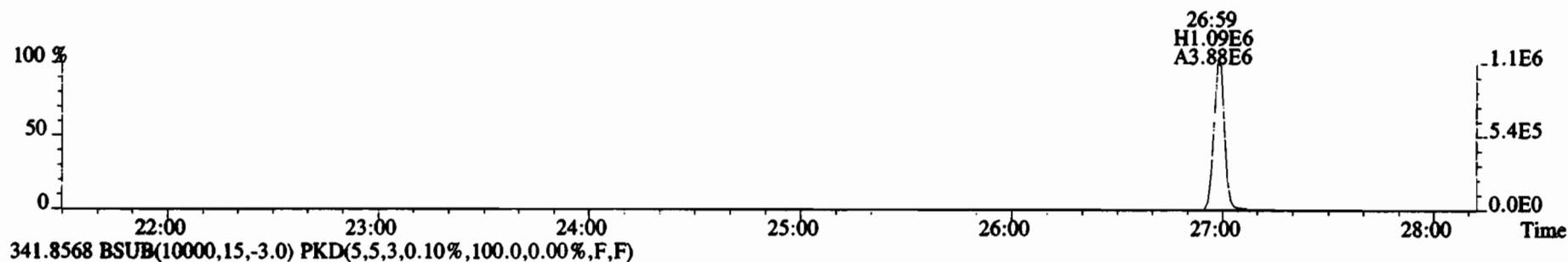
File:200109D2 #1-432 Acq: 9-JAN-2020 22:42:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text: Vista Analytical Laboratory_VG7 Text:ST200109D2-1 1613 CS3 1911604 Exp:OCDD_DB5
457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



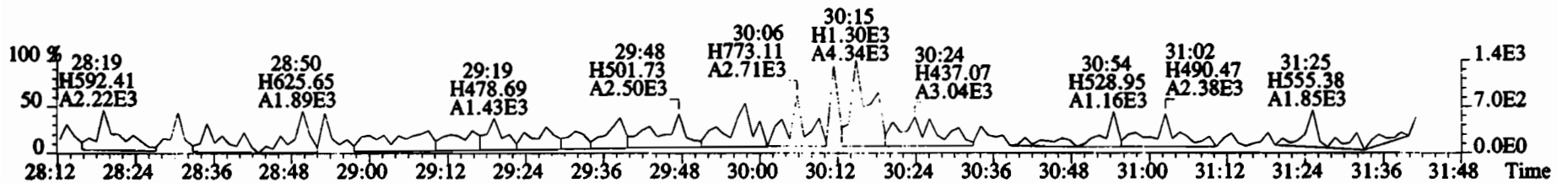
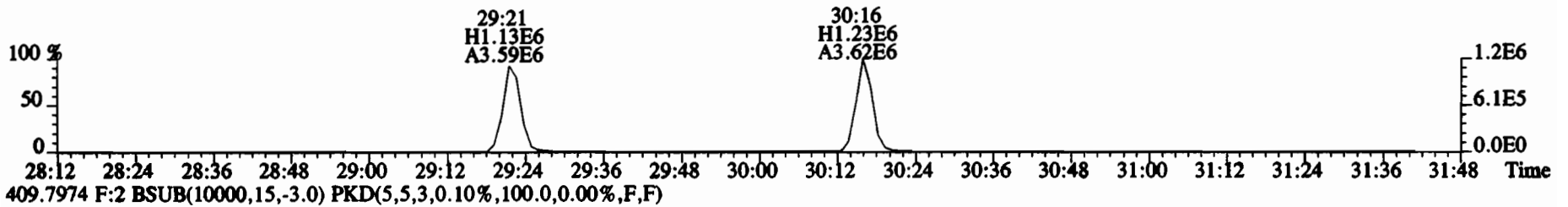
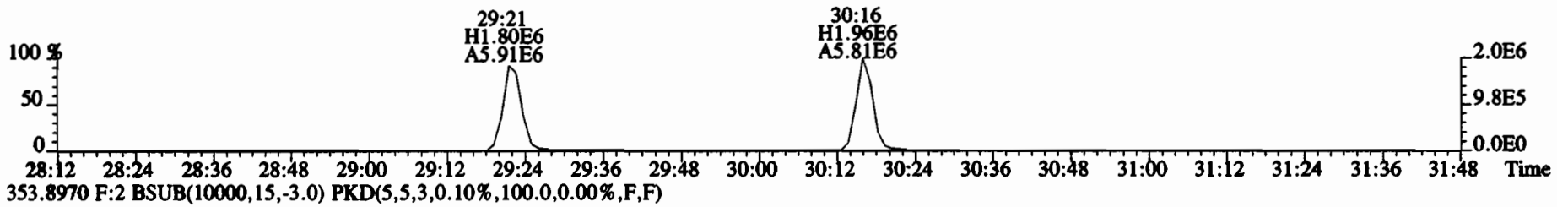
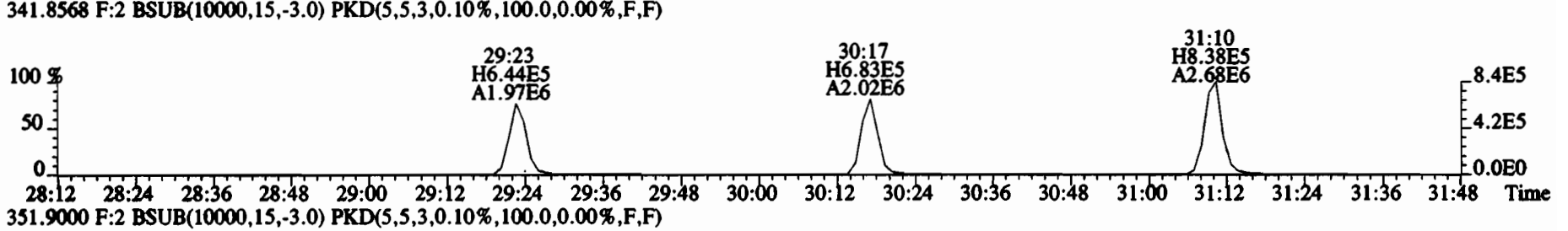
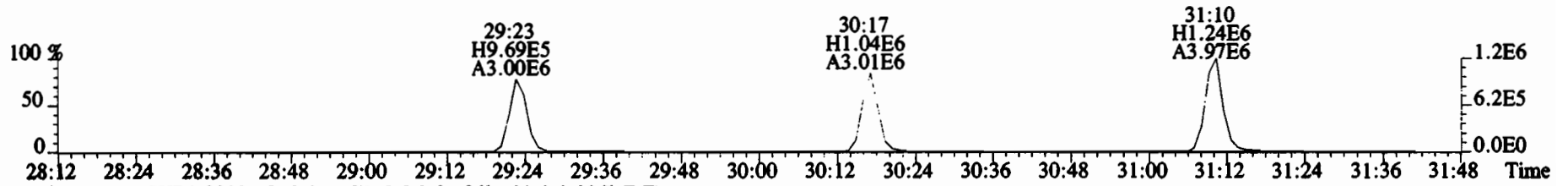
File:200109D2 #1-493 Acq: 9-JAN-2020 22:42:55 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text: Vista Analytical Laboratory_VG7 Text:ST200109D2-1 1613 CS3 1911604 Exp:OCDD_DB5
 303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



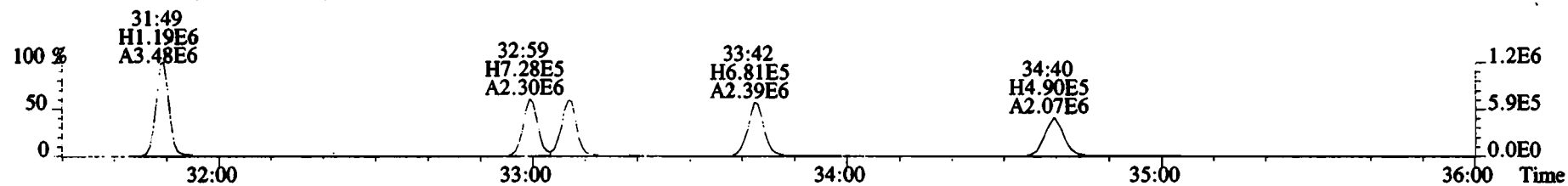
File:200109D2 #1-493 Acq: 9-JAN-2020 22:42:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST200109D2-1 1613 CS3 1911604 Exp:OCDD_DB5
339.8597 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



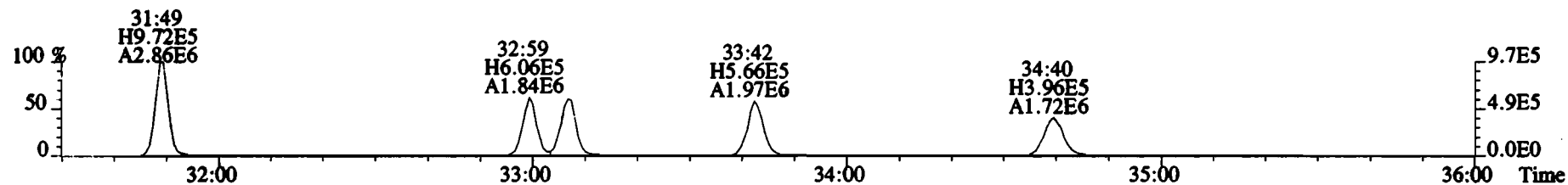
File:200109D2 #1-211 Acq: 9-JAN-2020 22:42:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text: Vista Analytical Laboratory_VG7 Text:ST200109D2-1 1613 CS3 19I1604 Exp:OCDD_DB5
339.8597 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



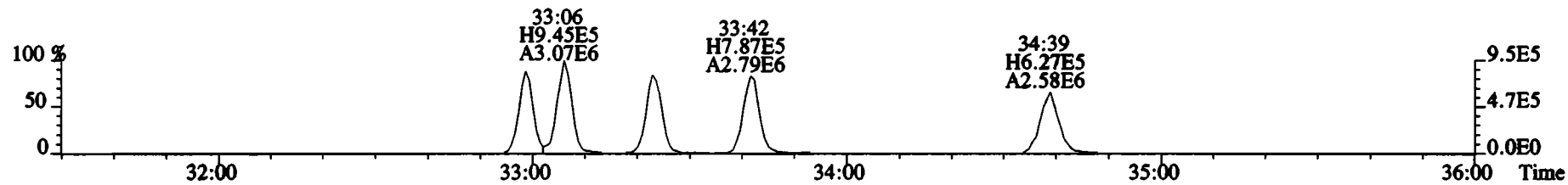
File:200109D2 #1-384 Acq: 9-JAN-2020 22:42:55 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text:Vista Analytical Laboratory_VG7 Text:ST200109D2-1 1613 CS3 19I1604 Exp:OCDD_DB5
 373.8207 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



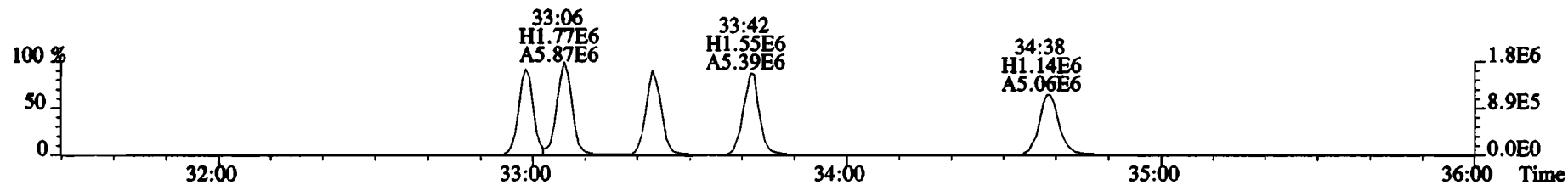
375.8178 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



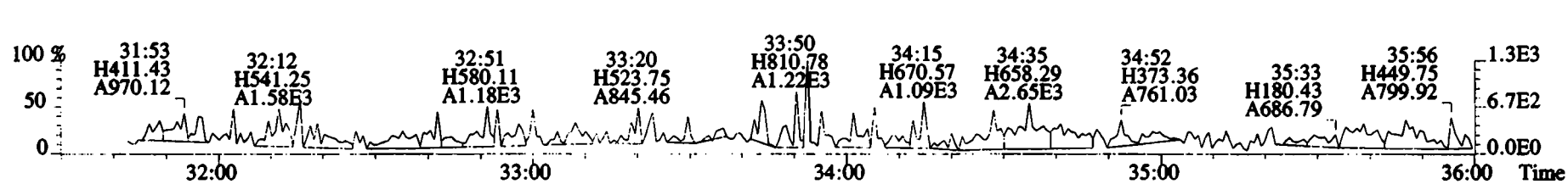
383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



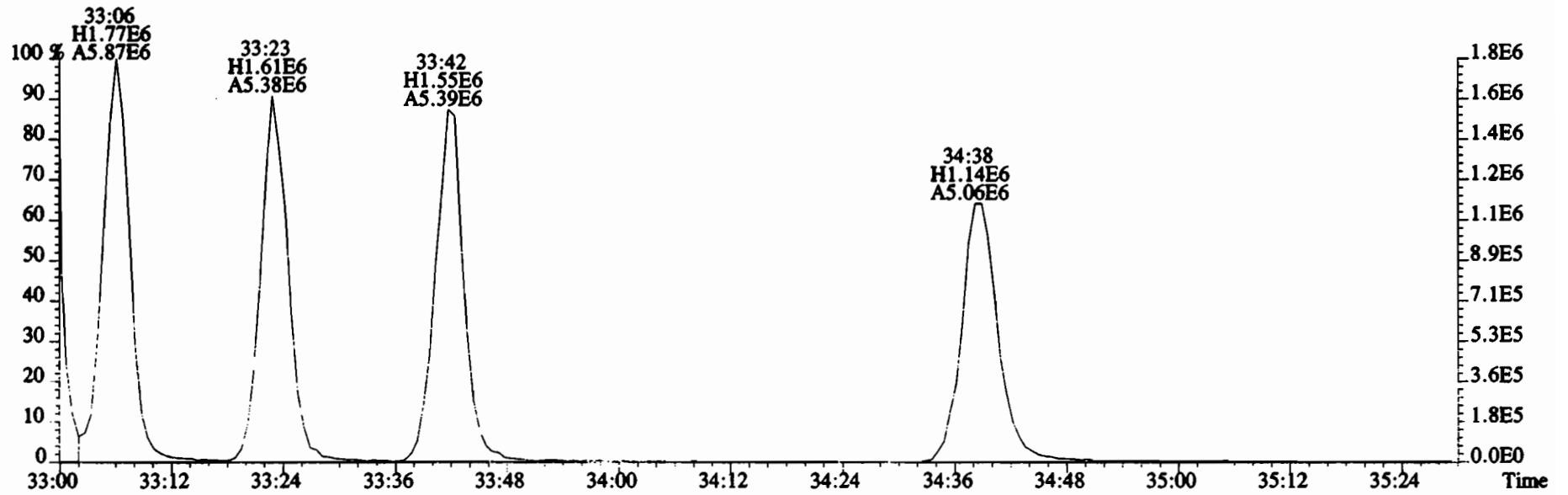
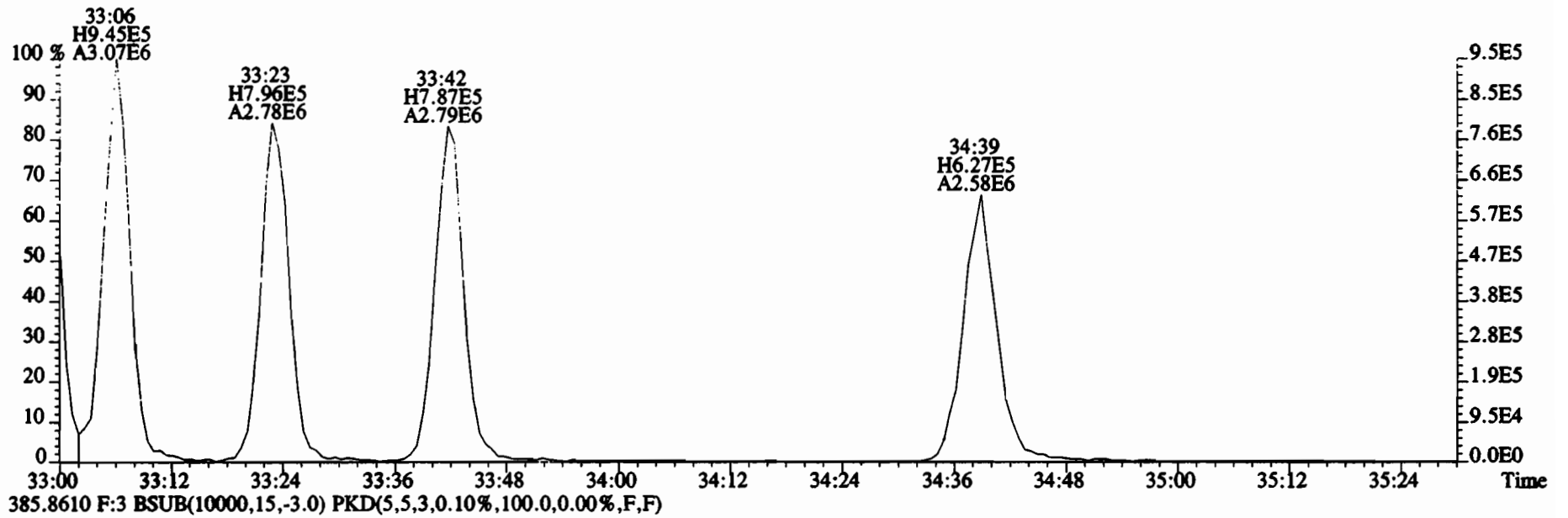
385.8610 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



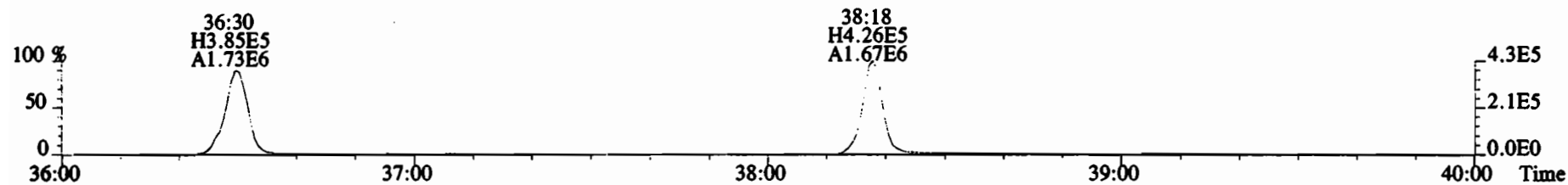
445.7555 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



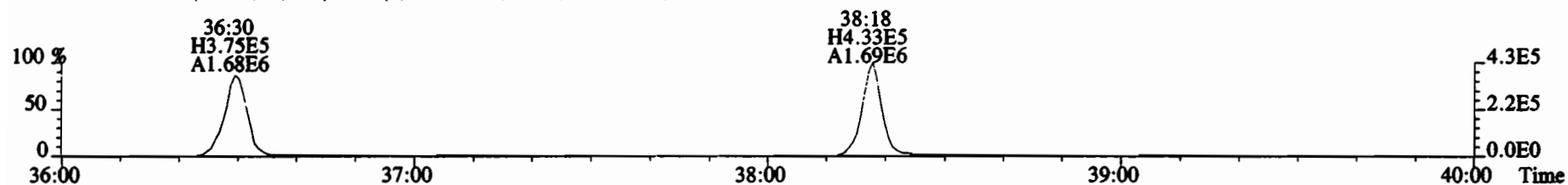
File:200109D2 #1-384 Acq: 9-JAN-2020 22:42:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text: Vista Analytical Laboratory VG7 Text:ST200109D2-1 1613 CS3 19I1604 Exp:OCDD_DB5
383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



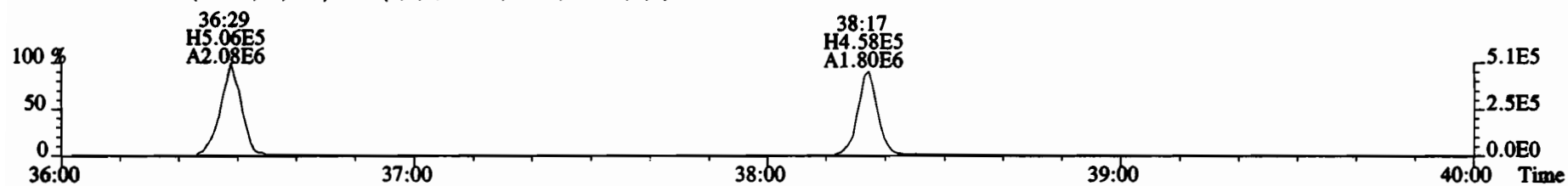
File:200109D2 #1-355 Acq: 9-JAN-2020 22:42:55 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text:Vista Analytical Laboratory_VG7 Text:ST200109D2-1 1613 CS3 1911604 Exp:OCDD_DB5
 407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



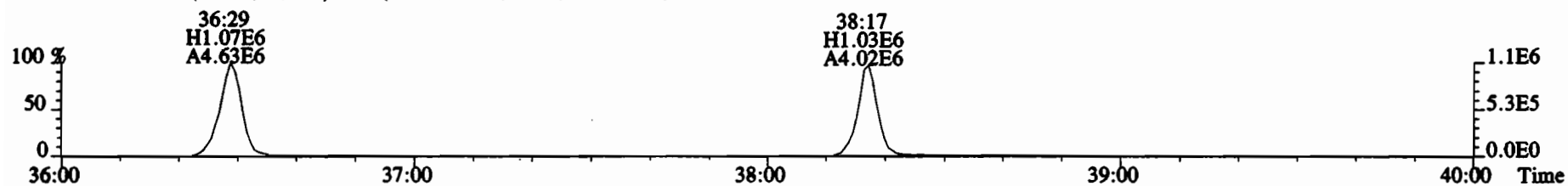
409.7788 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



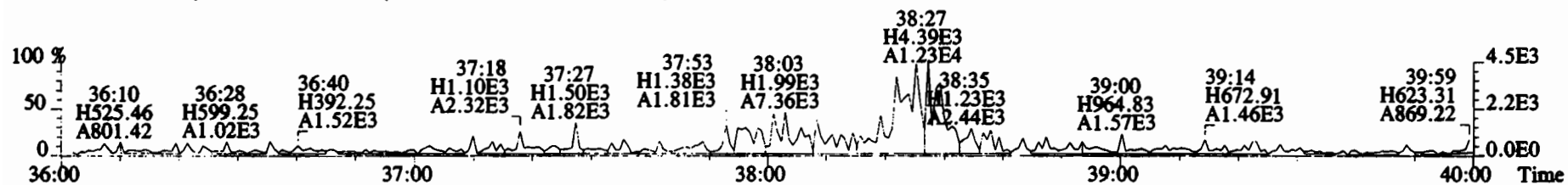
417.8253 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



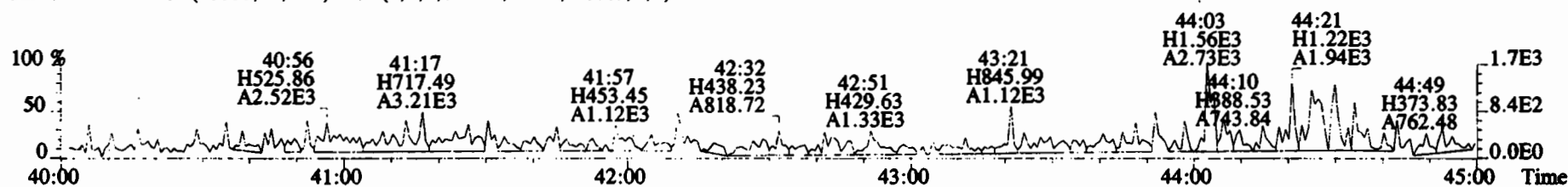
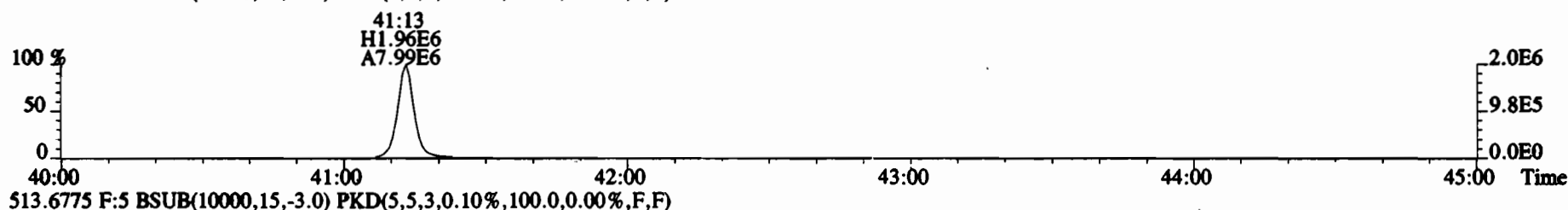
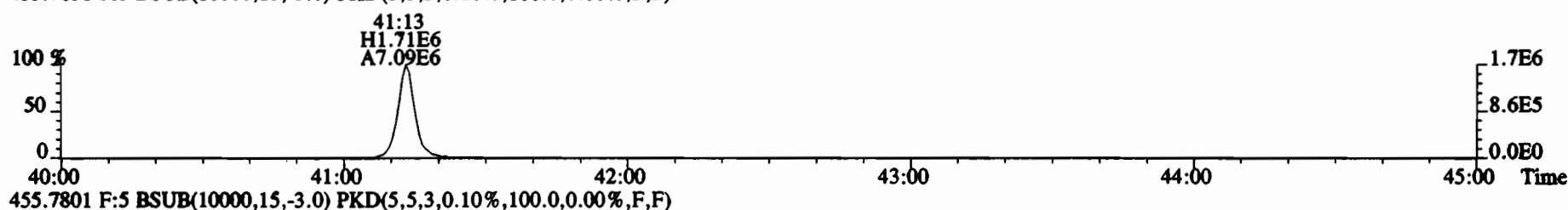
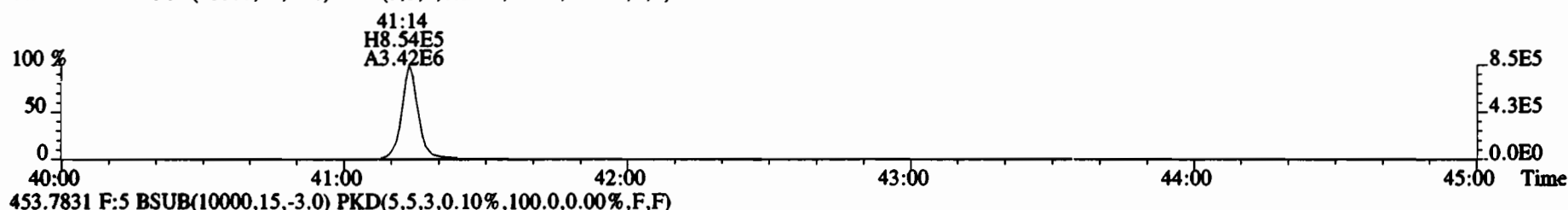
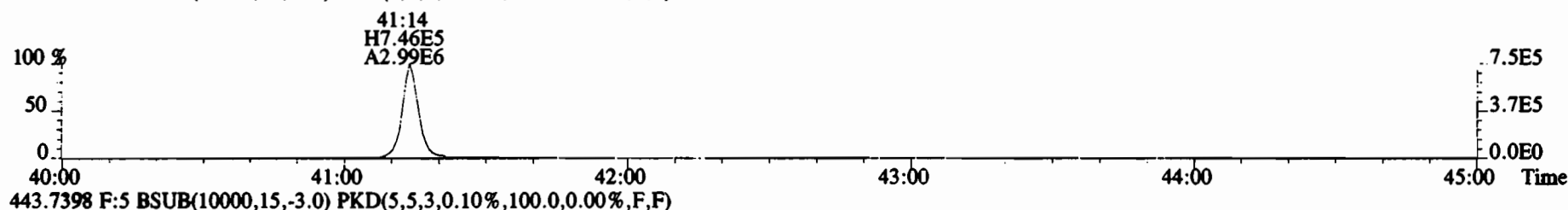
419.8220 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



479.7165 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

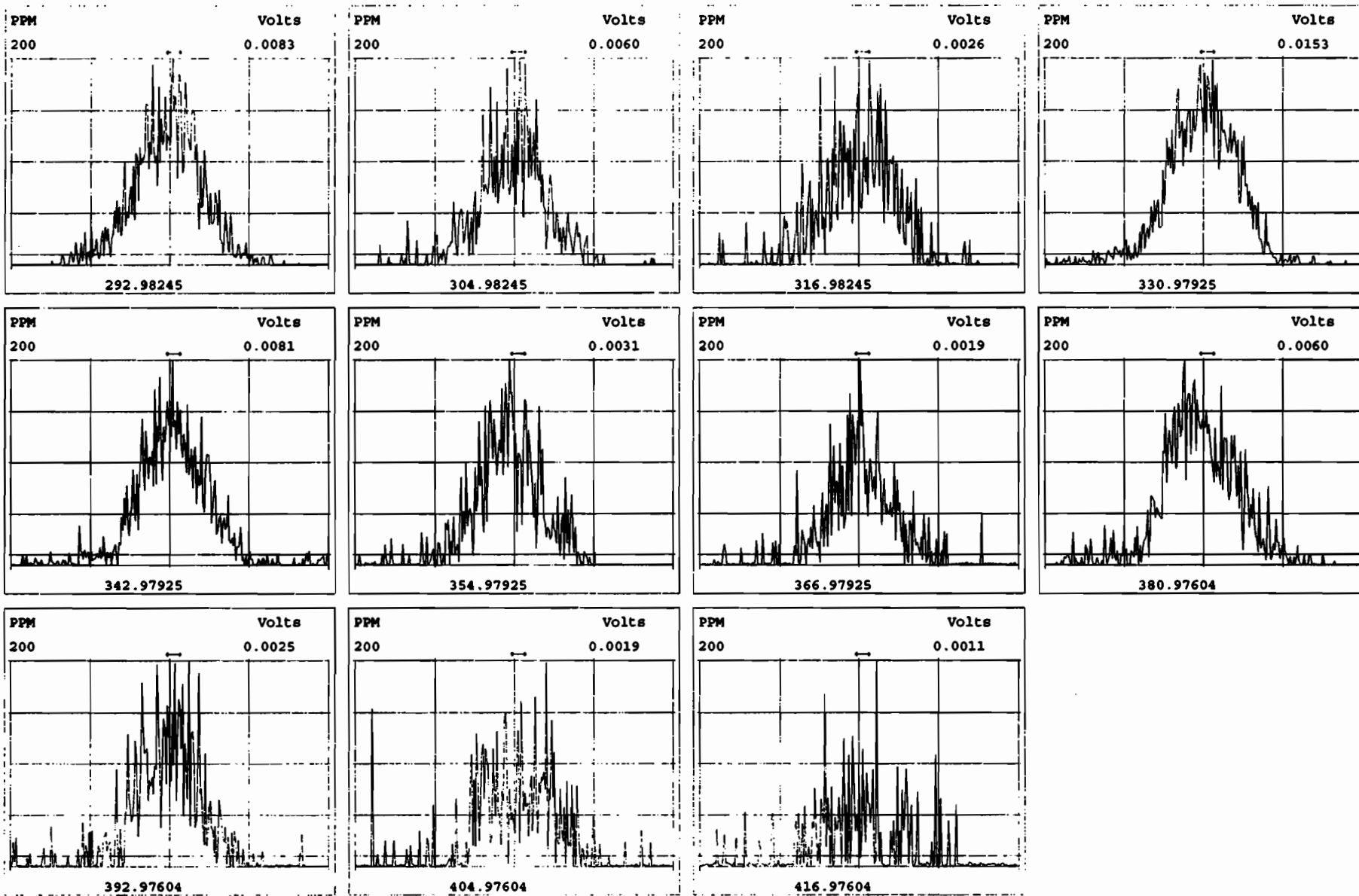


File:200109D2 #1-432 Acq: 9-JAN-2020 22:42:55 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory_VG7 Text:ST200109D2-1 1613 CS3 1911604 Exp:OCDD_DB5
441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



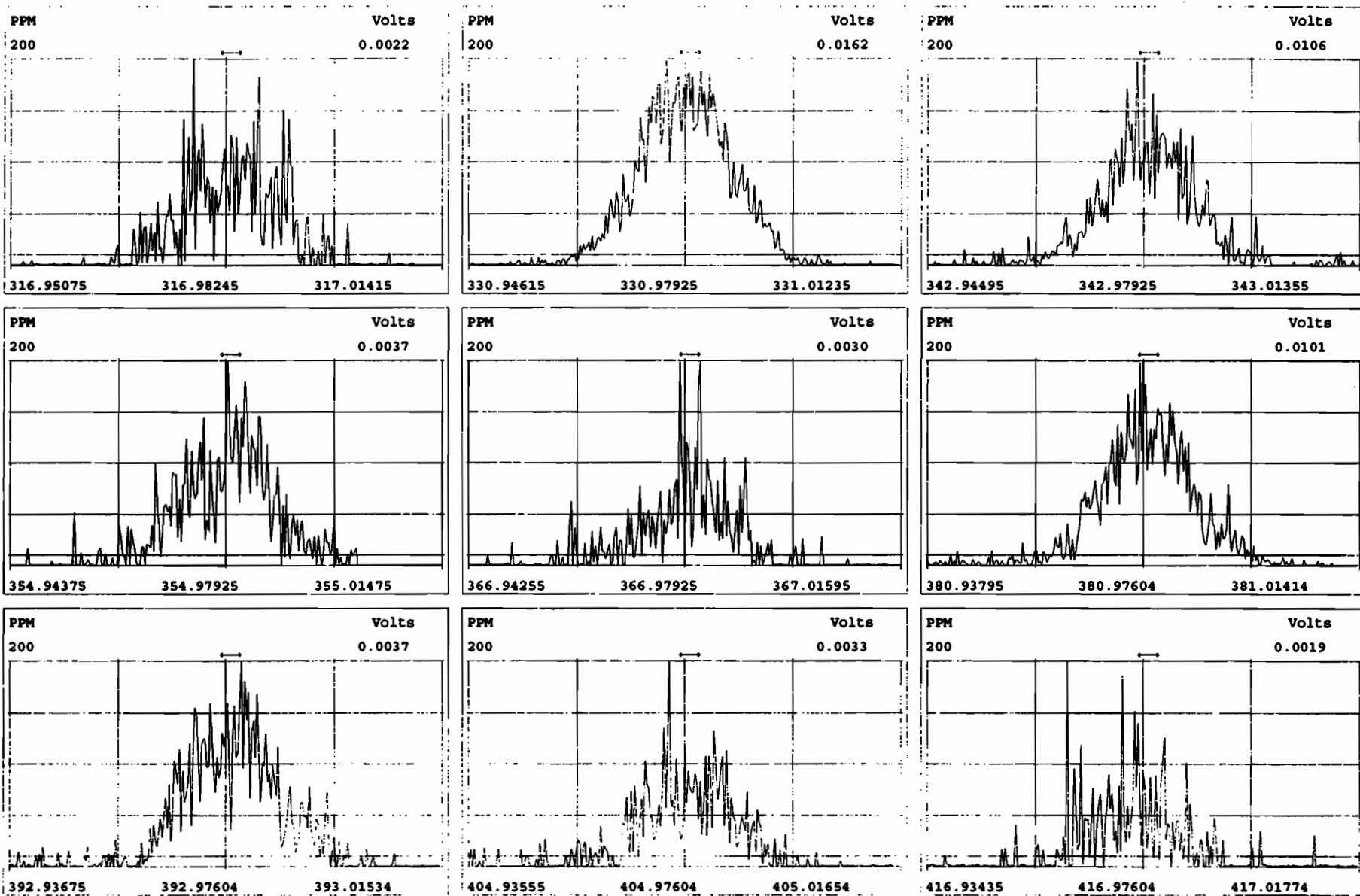
Peak Locate Examination:10-JAN-2020:10:51 File:RES_CHECK

Experiment:OCDD_DB5 Function:1 Reference:PFK



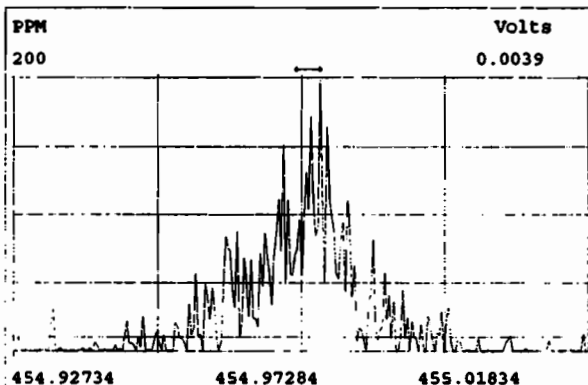
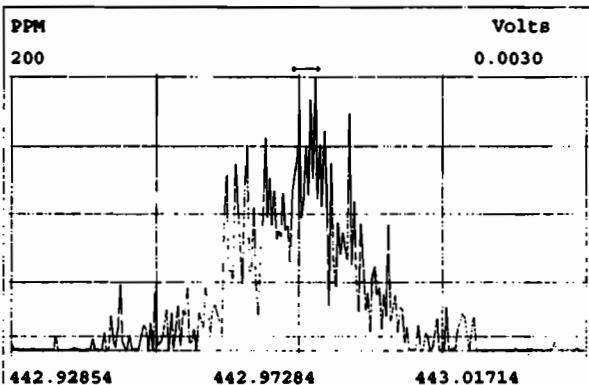
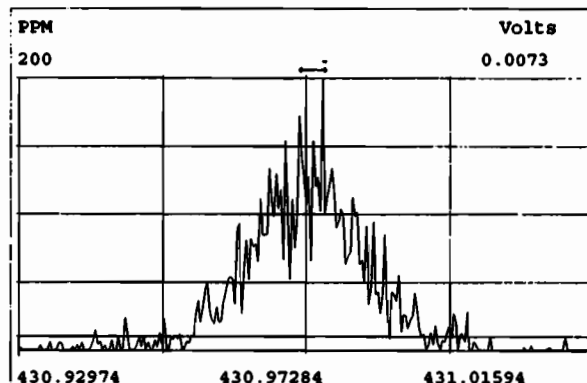
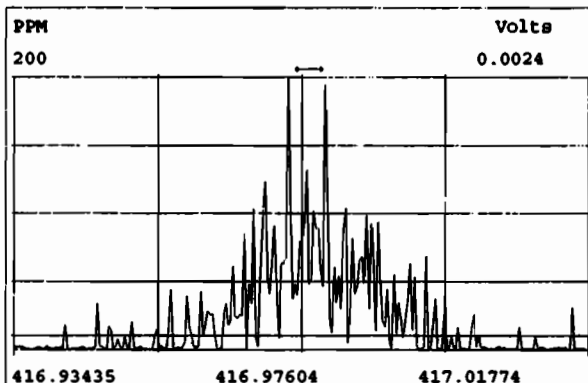
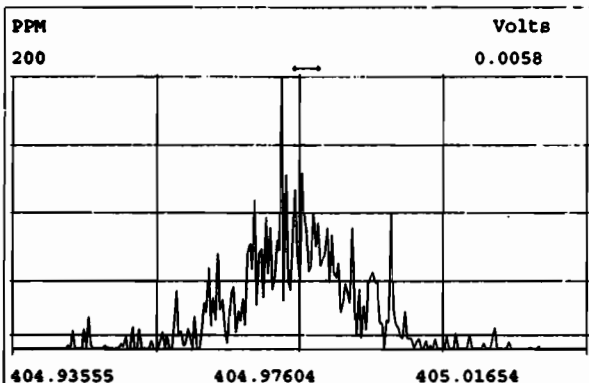
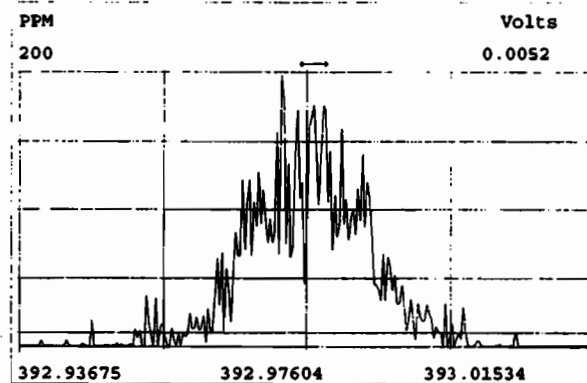
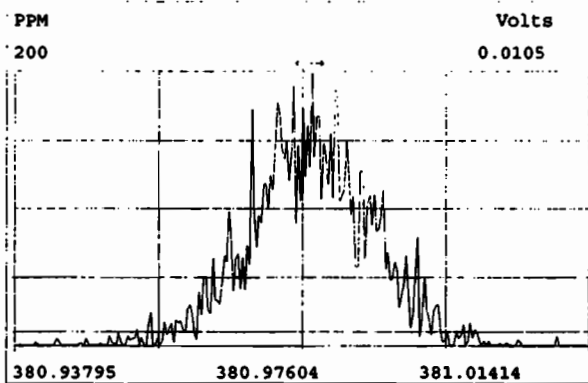
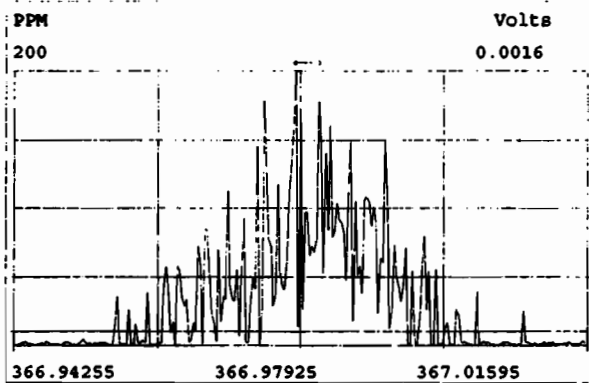
Peak Locate Examination:10-JAN-2020:10:52 File:RES_CHECK

Experiment:OCDD_DB5 Function:2 Reference:PFK



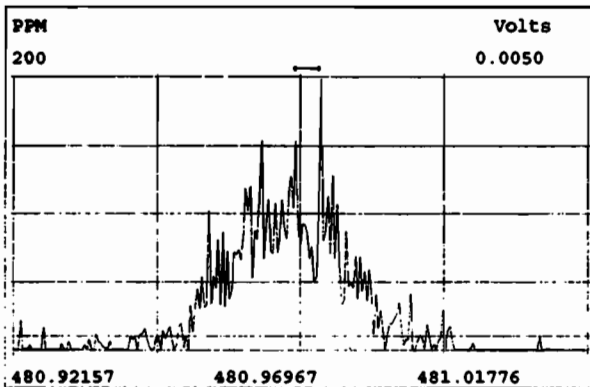
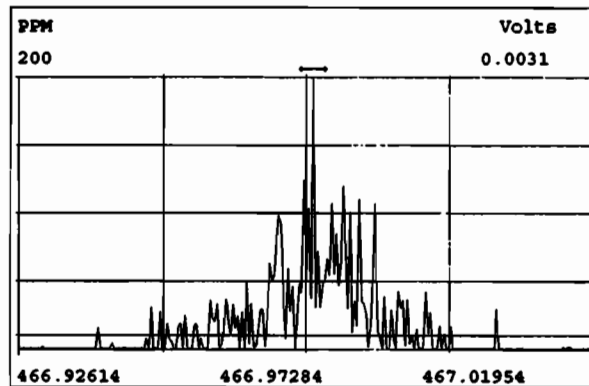
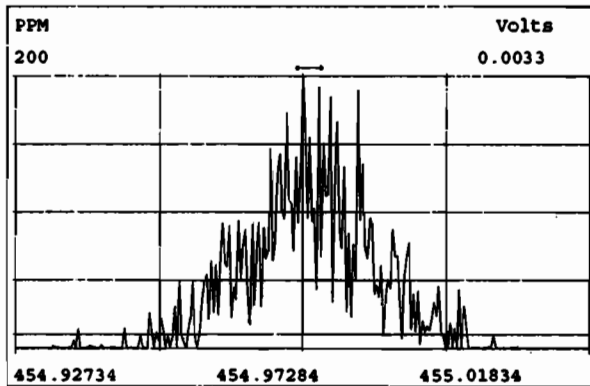
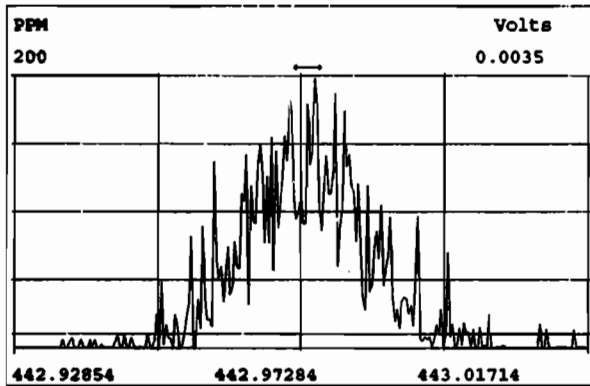
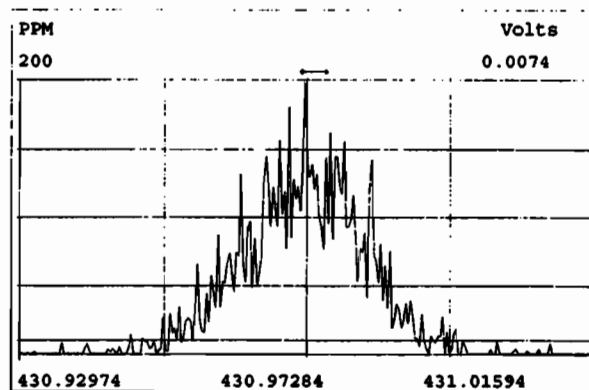
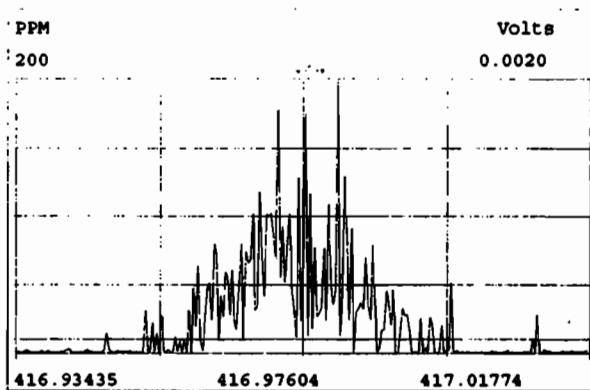
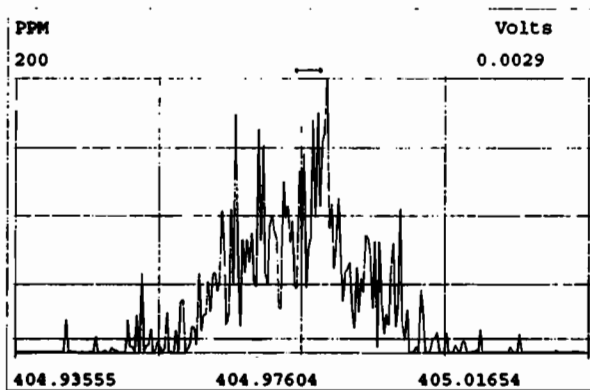
Peak Locate Examination:10-JAN-2020:10:53 File:RES_CHECK

Experiment:OCDD_DB5 Function:3 Reference:PFK



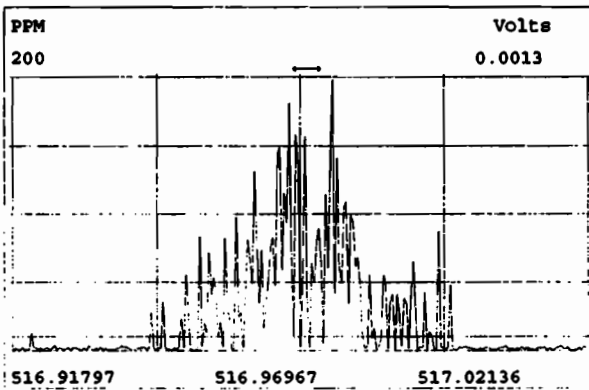
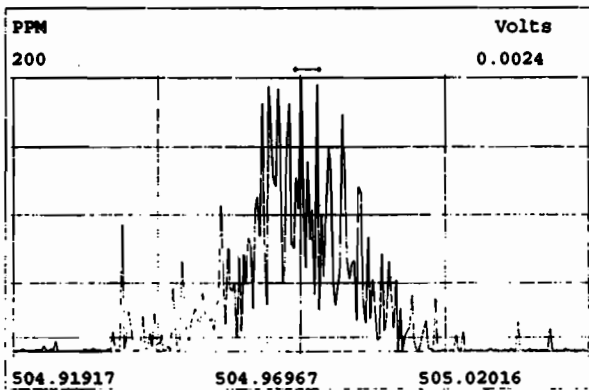
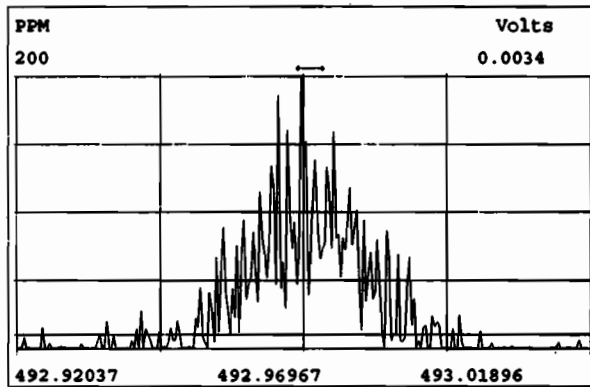
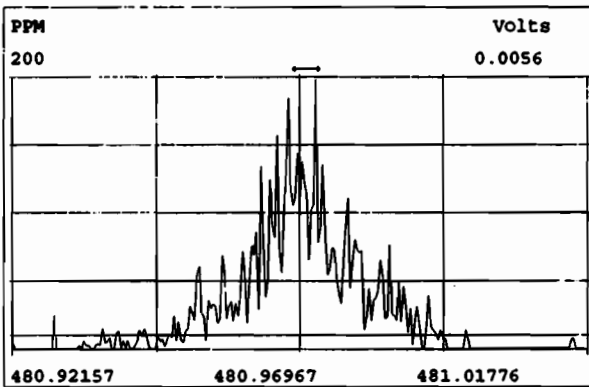
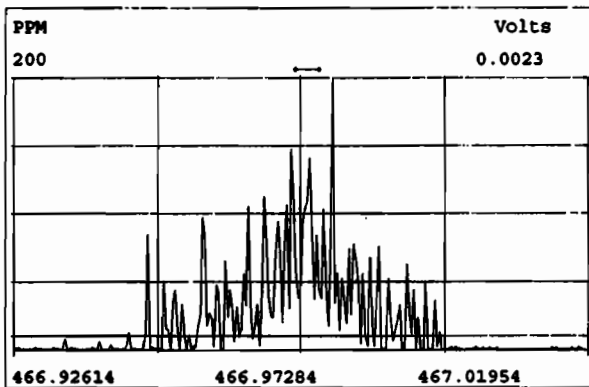
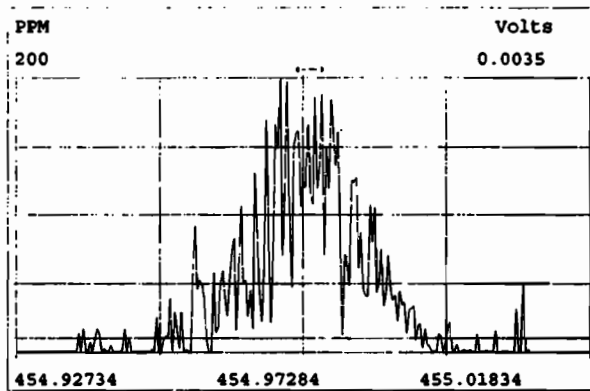
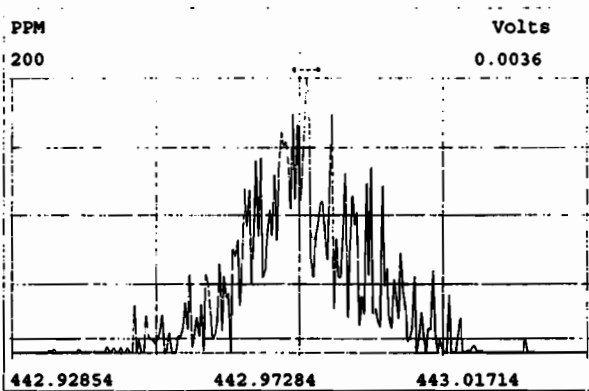
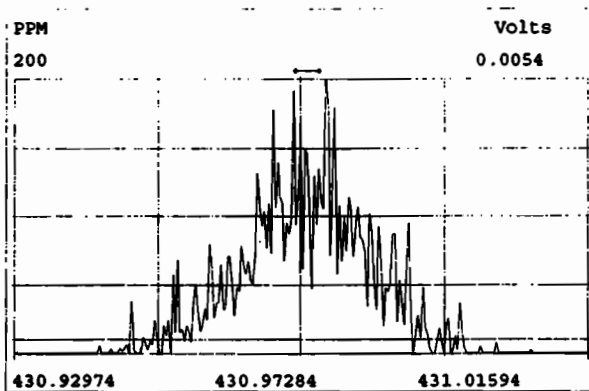
Peak Locate Examination:10-JAN-2020:10:54 File:RBS_CHECK

Experiment:OCDD_DB5 Function:4 Reference:PFK



Peak Locate Examination:10-JAN-2020:10:55 File:RES_CHECK

Experiment:OCDD_DB5 Function:5 Reference:PFK



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200201K2-1

Reviewed By: HC 2.3.2020
Initials & Date

End Calibration ID: NA

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

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

Intergrated peaks display correctly? NA

GC Break <20%

8280 CS1 End Standard:
 - Ratios within limits, S/N <2.5:1, CS1 within 12 hours NA

Comments:
 (A) END RES CHECK HAD ONE MASS BELOW 6K
 GPB 2/02/2020

Dataset: U:\VG11.PRO\Results\200201K2\200201K2-1.qld

Last Altered: Sunday, February 02, 2020 12:19:07 Pacific Standard Time

Printed: Sunday, February 02, 2020 12:20:07 Pacific Standard Time

GRB 02/02/2020
HL 2.3.2020

Method: U:\VG11.PRO\MethDB\1699rrt-01-25-2020.mdb 25 Jan 2020 13:55:51

Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-1-25-20-LIMITED.cdb 27 Jan 2020 09:02:26

Name: 200201K2_1, Date: 01-Feb-2020, Time: 13:55:36, ID: ST200201K2-1 1699 CS3 19K1309, Description: 1699 CS3 19K1309

#	Name	Resp	IS Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	RRT Fail	Conc	%Rec	DL	EMPC
1	2 Hexachlorobenzene	8.45e5	8.07e5	1.23	NO	0.997	1.000	22.63	22.63	1.001	1.001	NO	52.5	105 ^{15-125%}	0.0107	52.5
2	3 Alpha-BHC	2.90e5	3.11e5	2.19	NO	0.862	1.000	23.20	23.17	1.001	1.002	NO	54.1	108	0.257	54.1
3	4 Lindane (gamma-BHC)	2.18e5	2.33e5	2.16	NO	0.869	1.000	26.48	26.46	1.001	1.001	NO	53.7	107	0.405	53.7
4	5 Beta-BHC	2.02e5	1.84e5	2.22	NO	1.02	1.000	28.51	28.53	1.001	1.000	NO	53.8	108	0.371	53.8
5	6 Delta-BHC	2.12e5	2.12e5	2.14	NO	0.952	1.000	30.21	30.21	1.001	1.001	NO	52.6	105	0.312	52.6
6	7 Heptachlor	1.61e5	1.43e5	1.14	NO	1.08	1.000	28.64	28.65	1.001	1.001	NO	52.5	105	0.0870	52.5
7	9 Aldrin	1.92e5	1.70e5	1.64	NO	1.11	1.000	30.77	30.77	1.001	1.001	NO	50.9	102	0.128	50.9
8	10 Oxychlorane	4.91e4	4.28e4	1.60	NO	1.09	1.000	33.34	33.35	1.001	1.001	NO	52.5	105	0.455	52.5
9	11 cis-Heptachlor Epoxide	6.42e4	5.68e4	1.57	NO	1.13	1.000	34.13	34.14	1.001	1.001	NO	50.0	100	0.338	50.0
10	12 trans-Heptachlor Epox...	1.53e4	5.68e4	1.50	NO	0.260	1.000	34.62	34.64	1.015	1.015	NO	51.7	103	1.47	51.7
11	13 trans-Chlordane (gam...	4.77e4	4.18e4	1.63	NO	1.18	1.000	35.05	35.05	1.000	1.001	NO	48.4	96.8	0.414	48.4
12	14 trans-Nonachlor	5.01e4	4.68e4	1.59	NO	1.08	1.000	35.24	35.23	1.000	1.001	NO	49.7	99.4	0.389	49.7
13	15 cis-Chlordane	5.16e4	4.68e4	1.62	NO	1.11	1.000	35.72	35.73	1.014	1.014	NO	49.8	99.6	0.378	49.8
14	16 Endosulfan I (alpha)	3.37e4	2.95e4	1.48	NO	1.16	1.000	35.83	35.83	1.001	1.001	NO	49.5	98.9	0.588	49.5
15	18 2,4'-DDE	9.85e5	1.00e6	1.35	NO	0.984	1.000	35.70	35.70	1.000	1.000	NO	50.0	100	0.252	50.0
16	19 4,4'-DDE	7.30e5	7.43e5	1.35	NO	0.996	1.000	36.78	36.78	1.000	1.000	NO	49.3	98.6	0.316	49.3
17	20 Dieldrin	1.01e5	8.87e4	1.58	NO	1.09	1.000	37.27	37.28	1.001	1.000	NO	52.3	105	0.316	52.3
18	21 Endrin	8.30e4	7.57e4	1.63	NO	1.06	1.000	38.66	38.69	1.001	1.000	NO	51.9	104	0.343	51.9
19	22 cis-Nonachlor	5.76e4	5.10e4	1.54	NO	1.08	1.000	38.97	38.97	1.000	1.000	NO	52.5	105	0.501	52.5
20	23 Endosulfan II (beta)	1.94e4	1.60e4	1.62	NO	1.11	1.000	39.69	39.70	1.000	1.000	NO	54.7	109	1.60	54.7
21	24 2,4'-DDD	1.07e6	9.70e5	1.54	NO	1.05	1.000	37.91	37.92	1.000	1.000	NO	52.5	105	0.337	52.5
22	25 2,4'-DDT	7.07e5	6.52e5	1.56	NO	1.03	1.000	39.05	39.05	1.000	1.000	NO	52.7	105	0.521	52.7
23	26 4,4'-DDD	9.80e5	8.38e5	1.55	NO	1.12	1.000	39.19	39.18	1.000	1.000	NO	52.0	104	0.343	52.0
24	27 4,4'-DDT	6.23e5	5.25e5	1.53	NO	1.13	1.000	40.26	40.25	1.000	1.000	NO	52.4	105	0.554	52.4
25	28 Endosulfan Sulfate	2.37e4	2.32e4	1.36	NO	0.987	1.000	41.42	41.44	1.000	1.000	NO	51.7	103	1.63	51.7
26	29 4,4'-Methoxychlor	7.37e5	5.70e6	6.07	NO	1.27	1.000	43.28	43.29	1.000	1.000	NO	51.1	102	0.192	51.1
27	30 Mirex	2.62e5	2.44e5	1.55	NO	1.04	1.000	43.86	43.86	1.000	1.000	NO	51.5	103	0.147	51.5
28	31 Endrin Aldehyde	4.16e4	3.85e5	0.65	NO	1.06	1.000	40.83	40.84	1.001	1.000	NO	51.1	102	0.644	51.1
29	32 Endrin Ketone	3.36e4	3.27e5	0.59	NO	0.974	1.000	43.98	44.00	1.000	1.000	NO	52.7	105	0.912	52.7
30	34 13C6-Hexachlorobenz...	8.07e5	1.22e6	1.27	NO	0.674	1.000	22.63	22.61	0.871	0.872	NO	49.2	98.4 ^{98%}	0.0175	49.2
31	35 13C6-Alpha-BHC	3.11e5	1.22e6	0.80	NO	0.255	1.000	23.16	23.15	0.892	0.892	NO	50.1	100	0.455	50.1

Dataset: U:\VG11.PRO\Results\200201K2\200201K2-1.qld

Last Altered: Sunday, February 02, 2020 12:19:07 Pacific Standard Time
Printed: Sunday, February 02, 2020 12:20:07 Pacific Standard Time

Name: 200201K2_1, Date: 01-Feb-2020, Time: 13:55:36, ID: ST200201K2-1 1699 CS3 19K1309, Description: 1699 CS3 19K1309

	#-Name	Resp	IS Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	RRT Fail	Conc.	%Rec	DL	EMPC
32	36 13C6-Lindane (gamma)	2.33e5	1.22e6	0.80	NO	0.201	1.000	26.42	26.45	1.019	1.018	NO	47.8	95.5	0.577	
33	37 13C6-Beta-BHC	1.84e5	1.22e6	0.79	NO	0.155	1.000	28.51	28.50	1.098	1.099	NO	49.0	97.9	0.749	
34	38 13C6-Delta-BHC	2.12e5	1.22e6	0.78	NO	0.183	1.000	30.20	30.19	1.163	1.164	NO	47.6	95.1	0.633	
35	39 13C10-Heptachlor	1.43e5	1.22e6	1.24	NO	0.106	1.000	28.64	28.61	1.103	1.104	NO	55.4	111	0.147	
36	40 13C12-Aldrin	1.70e5	1.22e6	1.61	NO	0.130	1.000	30.75	30.74	1.185	1.185	NO	53.5	107	0.393	
37	41 13C10-Oxychlorane	4.28e4	1.22e6	1.69	NO	0.0314	1.000	33.34	33.32	1.284	1.285	NO	56.0	112	1.63	
38	42 13C10-cis-Heptachlor ...	5.68e4	1.22e6	1.60	NO	0.0404	1.000	34.12	34.11	1.315	1.315	NO	57.6	115	1.26	
39	43 13C10-trans-Chlordan...	4.18e4	1.22e6	1.72	NO	0.0281	1.000	35.03	35.03	1.350	1.350	NO	61.0	122	1.82	
40	44 13C10-trans-Nonachlor	4.68e4	1.22e6	1.57	NO	0.0330	1.000	35.22	35.22	1.357	1.357	NO	58.2	116	1.55	
41	45 13C9-Endosulfan I (al...	2.95e4	1.22e6	1.80	NO	0.0219	1.000	35.80	35.80	1.380	1.380	NO	55.3	111	2.33	
42	46 13C12-2,4'-DDE	1.00e6	1.22e6	1.59	NO	0.765	1.000	35.68	35.69	0.996	0.995	NO	53.7	107	0.344	
43	47 13C12-4,4'-DDE	7.43e5	1.22e6	1.54	NO	0.556	1.000	36.75	36.77	1.026	1.025	NO	54.9	110	0.473	
44	48 13C12-Dieldrin	8.87e4	1.22e6	1.61	NO	0.0759	1.000	37.27	37.25	1.039	1.040	NO	48.0	95.9	0.673	
45	49 13C12-Endrin	7.57e4	1.22e6	1.56	NO	0.0477	1.000	38.67	38.66	1.079	1.079	NO	65.2	130	1.07	
46	50 13C10-cis-Nonachlor	5.10e4	1.22e6	1.73	NO	0.0389	1.000	38.96	38.96	1.087	1.087	NO	53.8	108	1.31	
47	51 13C9-Endosulfan II	1.60e4	1.22e6	1.51	NO	0.0122	1.000	39.69	39.69	1.107	1.107	NO	53.7	107	4.19	
48	52 13C12-2,4'-DDD	9.70e5	1.22e6	1.60	NO	0.754	1.000	37.90	37.91	1.461	1.461	NO	52.8	106	0.298	
49	53 13C12-2,4'-DDT	6.52e5	1.22e6	1.82	NO	0.519	1.000	39.03	39.03	1.504	1.504	NO	51.6	103	0.433	
50	54 13C12-4,4'-DDD	8.38e5	1.22e6	1.62	NO	0.662	1.000	39.16	39.17	1.509	1.509	NO	51.9	104	0.339	
51	55 13C12-4,4'-DDT	5.25e5	1.22e6	1.58	NO	0.419	1.000	40.23	40.24	1.551	1.551	NO	51.4	103	0.536	
52	56 13C9-Endosulfan Sulf...	2.32e4	1.22e6	1.60	NO	0.0189	1.000	41.43	41.42	1.155	1.156	NO	50.3	101	3.01	
53	57 13C12-Methoxychlor	5.70e6	1.22e6	23.44	NO	0.473	1.000	43.28	43.28	1.207	1.207	NO	495	99.0	0.755	
54	58 13C10-Mirex	2.44e5	1.22e6	1.55	NO	0.194	1.000	43.86	43.84	1.223	1.223	NO	51.6	103	0.239	
55	59 13C12-Endrin Aldehyde	3.85e5	1.22e6	0.43	NO	0.0388	1.000	40.83	40.81	1.138	1.139	NO	407	81.4	2.28	
56	60 13C12-Endrin Ketone	3.27e5	1.22e6	0.45	NO	0.0330	1.000	44.01	43.98	1.227	1.228	NO	408	81.6	2.68	
57	62 13C-PCB-15	1.22e6	1.22e6	1.59	NO	1.00	1.000	25.96	25.95	1.000	1.000	NO	50.0	100	0.0881	

Dataset: Untitled

Last Altered: Sunday, February 02, 2020 12:27:53 Pacific Standard Time

Printed: Sunday, February 02, 2020 12:28:10 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1699rrt-01-25-2020.mdb 25 Jan 2020 13:55:51

Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-1-25-20-LIMITED.cdb 27 Jan 2020 09:02:26

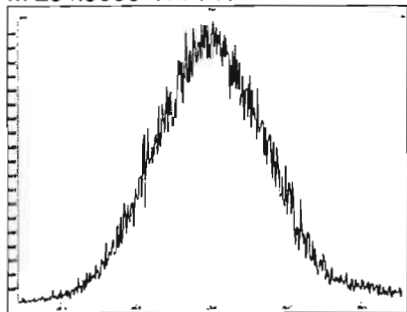
Compound name: Hexachlorobutadiene

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1	200201K2_1	ST200201K2-1 1699 CS3 19K1309	01-Feb-20	13:55:36
2	200201K2_2	GC200201K2-1 GC BREAK	01-Feb-20	14:43:33
3	200201K2_3	B9L0235-BS1 OPR 1	01-Feb-20	15:31:39
4	200201K2_4	SOLVENT BLANK	01-Feb-20	16:20:54
5	200201K2_5	B0A0087-BLK1 Method Blank 1	01-Feb-20	17:10:04
6	200201K2_6	1904016-06RE2@5X PDI-141RAB-10-17.7-19...	01-Feb-20	17:59:16
7	200201K2_7	1904016-06RE2 PDI-141RAB-10-17.7-191107...	01-Feb-20	18:48:29
8	200201K2_8	SOLVENT BLANK	01-Feb-20	19:38:43
9	200201K2_9	1904021-01RE1@5X PDI-1142RAB-20-30.4-1...	01-Feb-20	20:26:51
10	200201K2_10	1904021-01RE1 PDI-1142RAB-20-30.4-19111...	01-Feb-20	21:16:02
11	200201K2_11	SOLVENT BLANK	01-Feb-20	22:06:24
12	200201K2_12	1904021-04RE2@5X PDI-142RAB-20-30.4-19...	01-Feb-20	22:55:23
13	200201K2_13	1904021-04RE2 PDI-142RAB-20-30.4-191112...	01-Feb-20	23:44:36

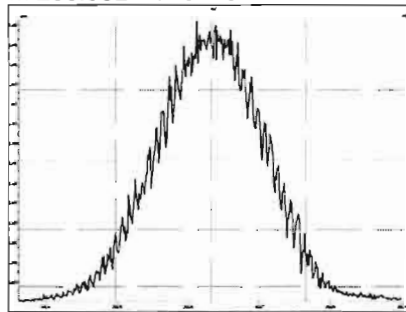
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Printed: Saturday, February 01, 2020 13:50:57 Pacific Standard Time

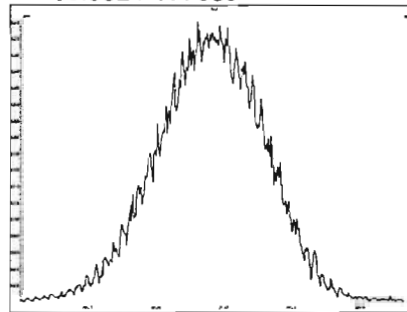
M 254.9856 R 7141



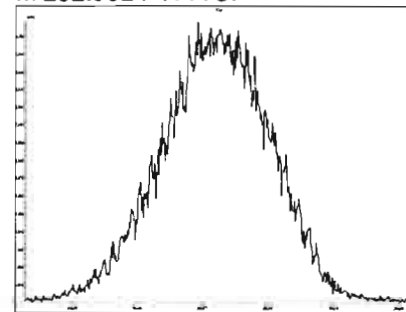
M 268.9824 R 8278



M 280.9824 R 7835



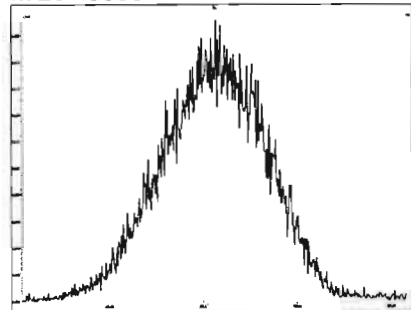
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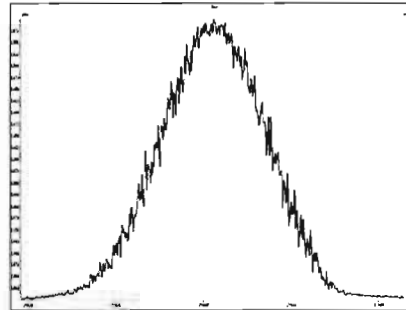
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Printed: Saturday, February 01, 2020 13:51:34 Pacific Standard Time

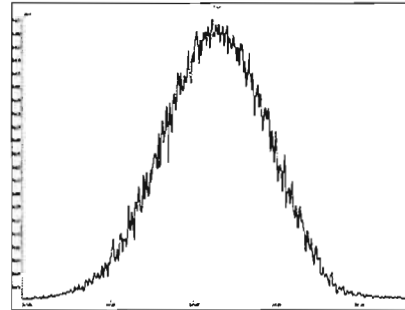
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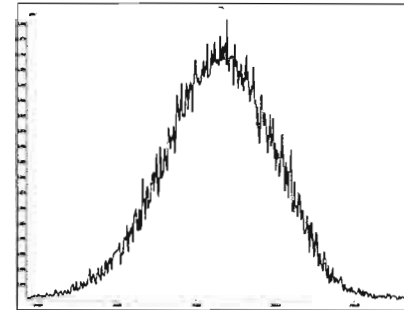
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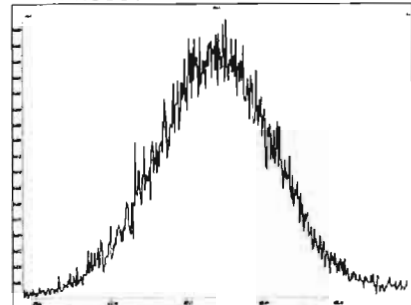
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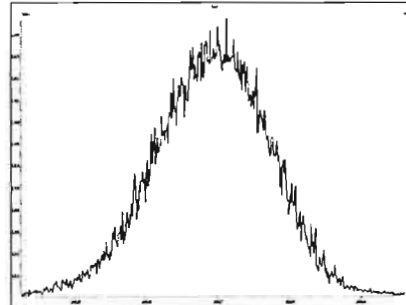
M 242.9856 R 7418



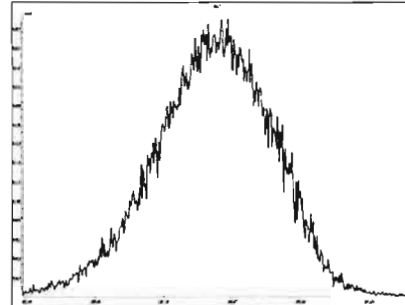
M 254.9856 R 6511



M 268.9824 R 7185



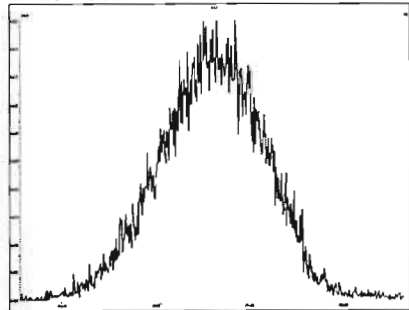
M 280.9824 R 7267



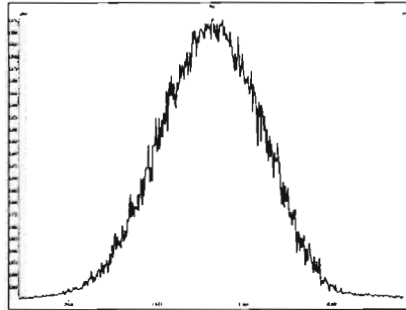
File: Experiment: 1699_ZB50_10K.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Saturday, February 01, 2020 13:52:22 Pacific Standard Time

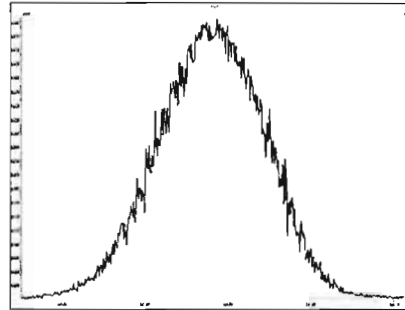
M 204.9888 R 8278



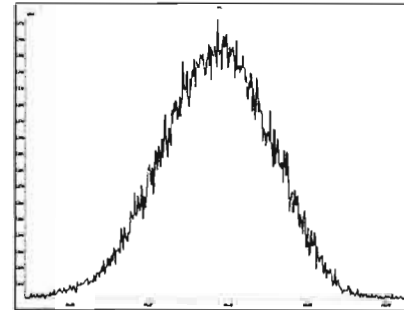
M 218.9856 R 8171



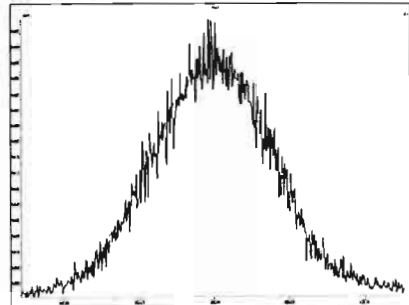
M 230.9856 R 7739



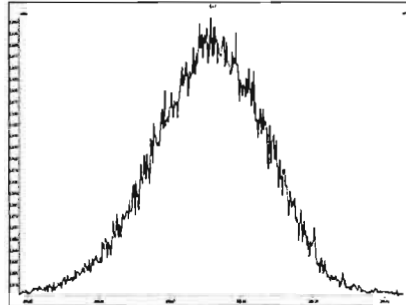
M 242.9856 R 7310



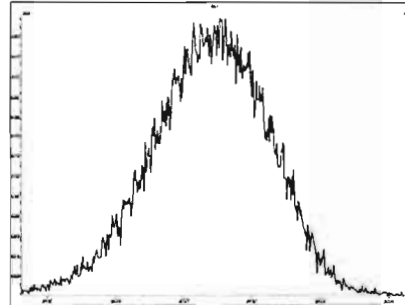
M 254.9856 R 6494



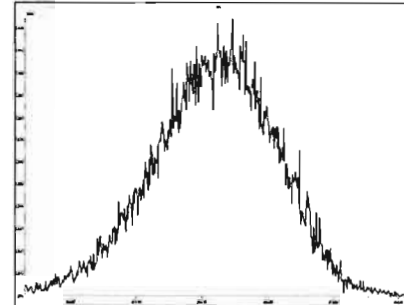
M 268.9824 R 7024



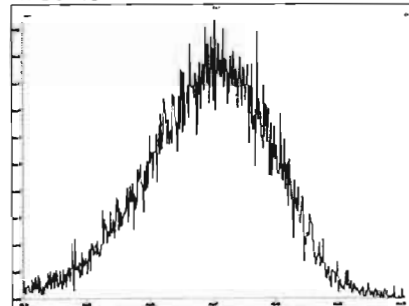
M 280.9824 R 7204



M 292.9824 R 6814



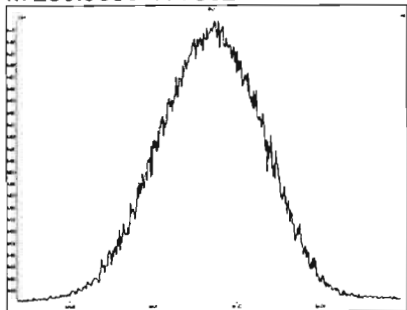
M 304.9824 R 7247



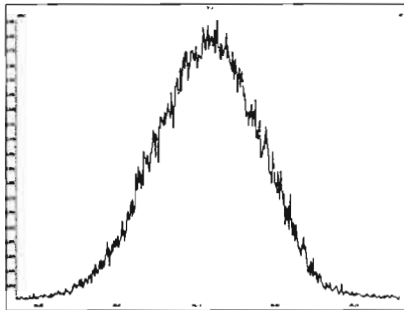
File: Experiment: 1699_ZB50_10K.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Saturday, February 01, 2020 13:53:46 Pacific Standard Time

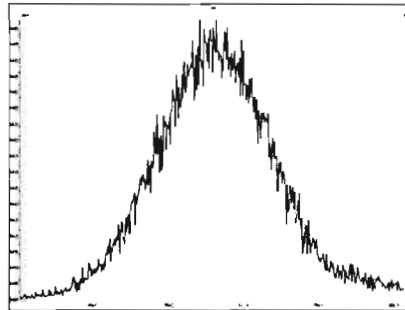
M 230.9856 R 7862



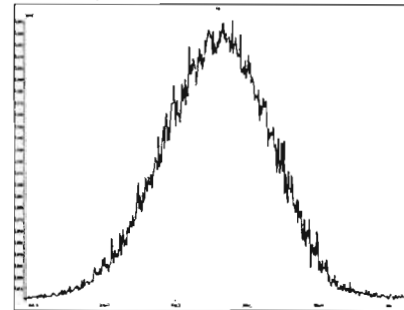
M 242.9856 R 7960



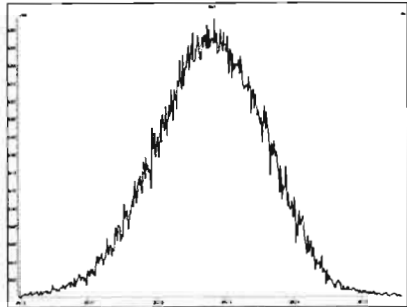
M 254.9856 R 6686



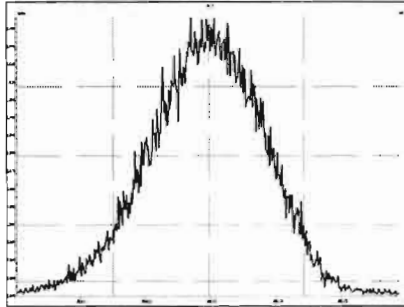
M 268.9824 R 7574



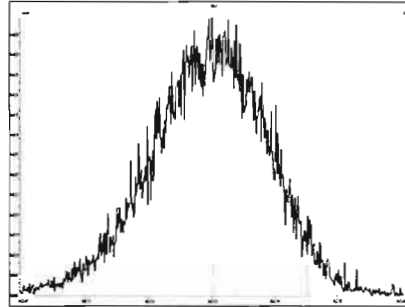
M 280.9824 R 8061



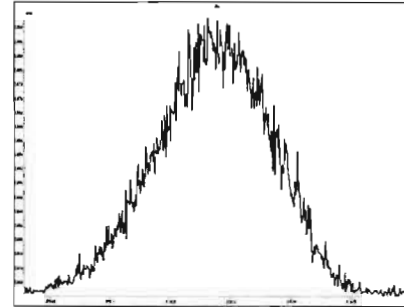
M 292.9824 R 7440



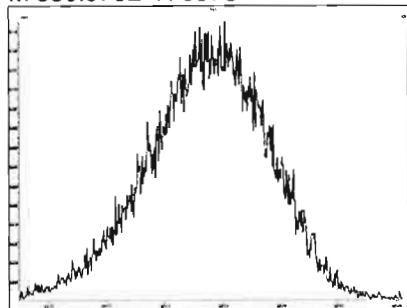
M 304.9824 R 7644



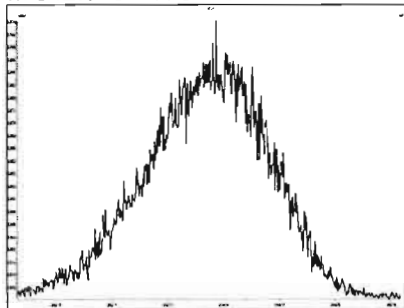
M 318.9792 R 7332



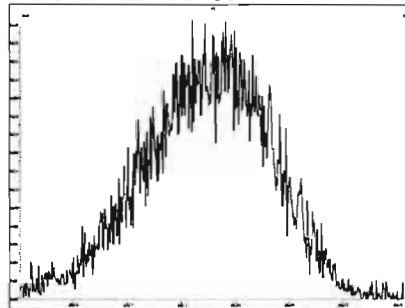
M 330.9792 R 6576



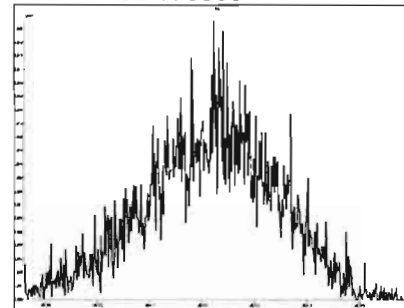
M 342.9792 R 6795



M 354.9792 R 6408



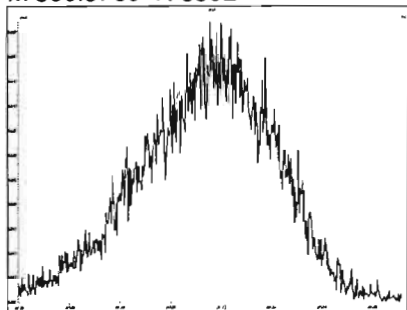
M 366.9792 R 8305



File: Experiment: 1699_ZB50_10K.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Saturday, February 01, 2020 13:53:46 Pacific Standard Time

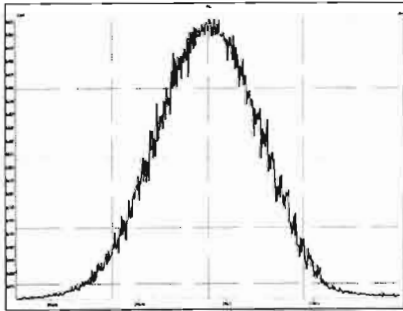
M 380.9760 R 6392



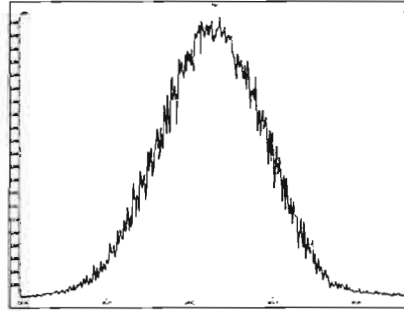
File: Experiment: 1699_ZB50_10K.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Saturday, February 01, 2020 13:54:33 Pacific Standard Time

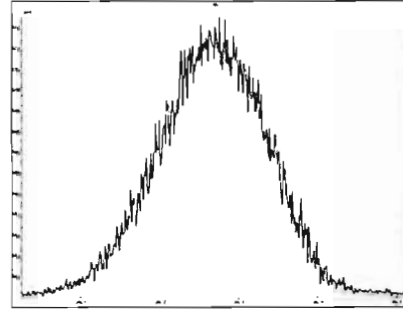
M 218.9856 R 7961



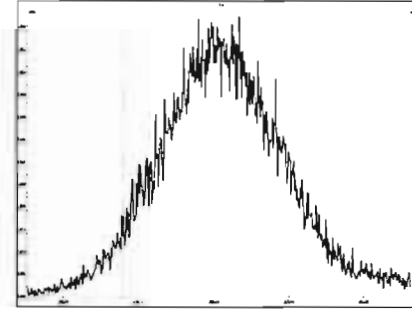
M 230.9856 R 7985



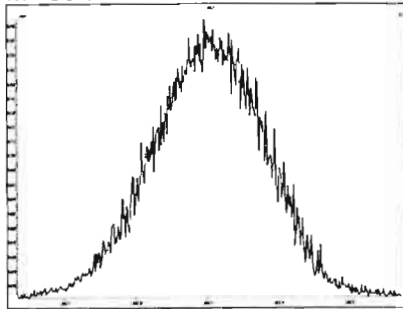
M 242.9856 R 8012



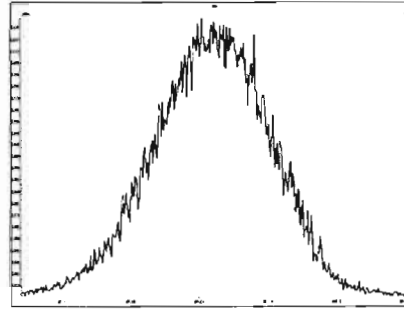
M 254.9856 R 6394



M 268.9824 R 7266



M 280.9824 R 6926



Dataset: U:\VG11.PRO\Results\200201K2\200201K2-2.qld

Last Altered: Sunday, February 02, 2020 12:22:27 Pacific Standard Time

Printed: Sunday, February 02, 2020 12:22:55 Pacific Standard Time

GRB 02/02/2020

Method: U:\VG11.PRO\MethDB\1699_GC-break.mdb 26 Jan 2020 09:58:44

Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-1-25-20-LIMITED.cdb 27 Jan 2020 09:02:26

Name: 200201K2_2, Date: 01-Feb-2020, Time: 14:43:33, ID: GC200201K2-1 GC BREAK, Description: GC BREAK

HC 7-3-2020

#	Name	Resp	RA	n/y	RT
1	1 Endrin Aldehyde	1.48e3	0.74	NO	40.82
2	2 Endrin Ketone	5.39e3	0.56	NO	44.00
3	3 Endrin	4.95e5	1.59	NO	38.69
4	4 4,4'-DDE			NO	
5	5 4,4'-DDD	1.74e4	1.60	NO	39.18
6	6 4,4'-DDT	9.25e6	1.57	NO	40.24

$$\frac{EA + EK}{E} \times 100\% = \underline{1.39\%}$$

$$\frac{DDE + DDD}{DDT} \times 100\% = \underline{0.19\%}$$

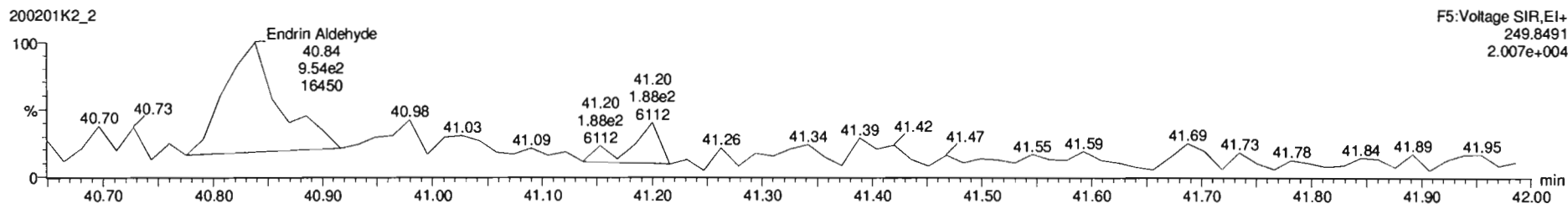
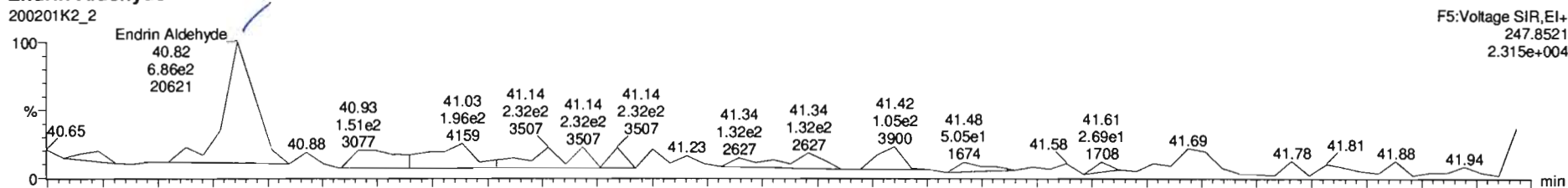
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 12:20:24 Pacific Standard Time
Printed: Sunday, February 02, 2020 12:21:08 Pacific Standard Time

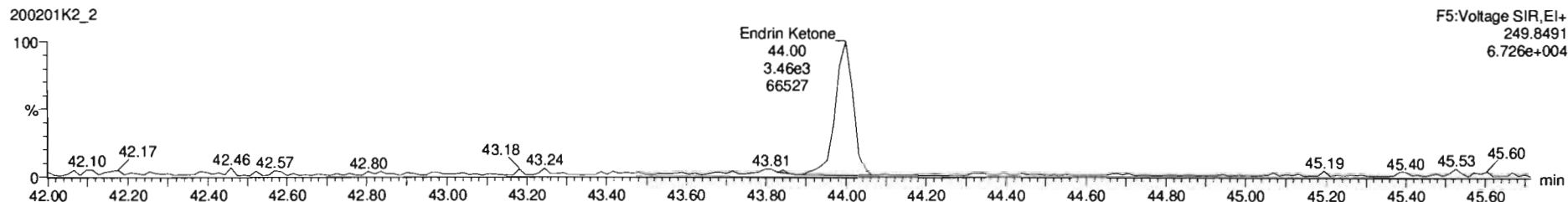
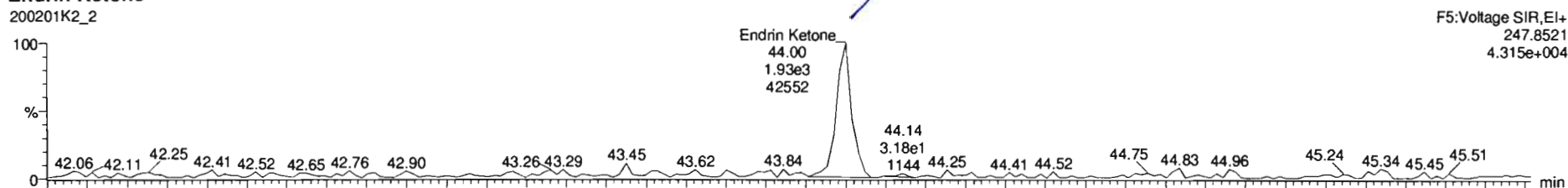
Method: U:\VG11.PRO\MethDB\1699_GC-break.mdb 26 Jan 2020 09:58:44
Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-1-25-20-LIMITED.cdb 27 Jan 2020 09:02:26

Name: 200201K2_2, Date: 01-Feb-2020, Time: 14:43:33, ID: GC200201K2-1 GC BREAK, Description: GC BREAK

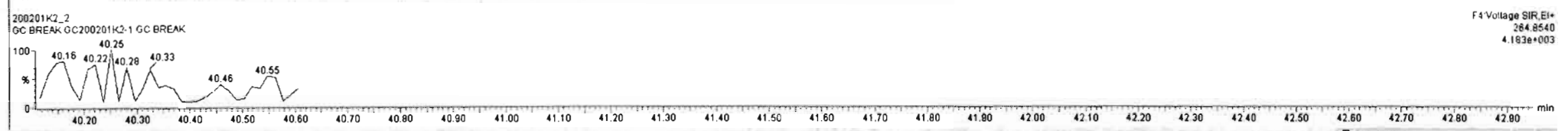
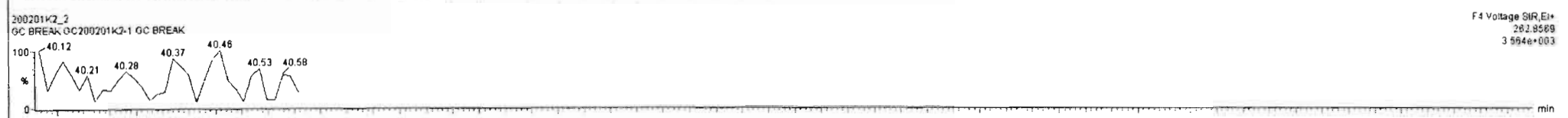
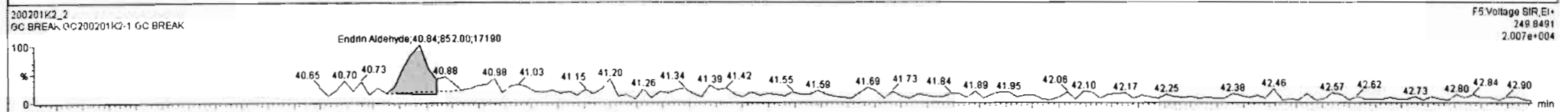
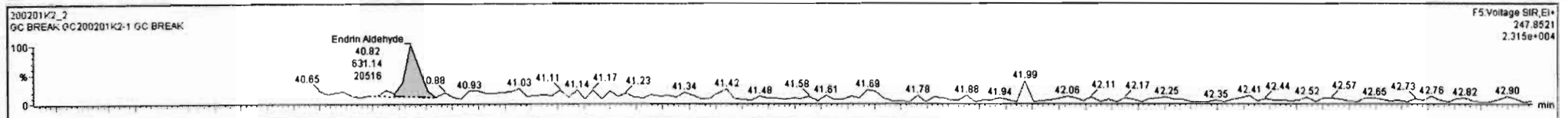
Endrin Aldehyde



Endrin Ketone



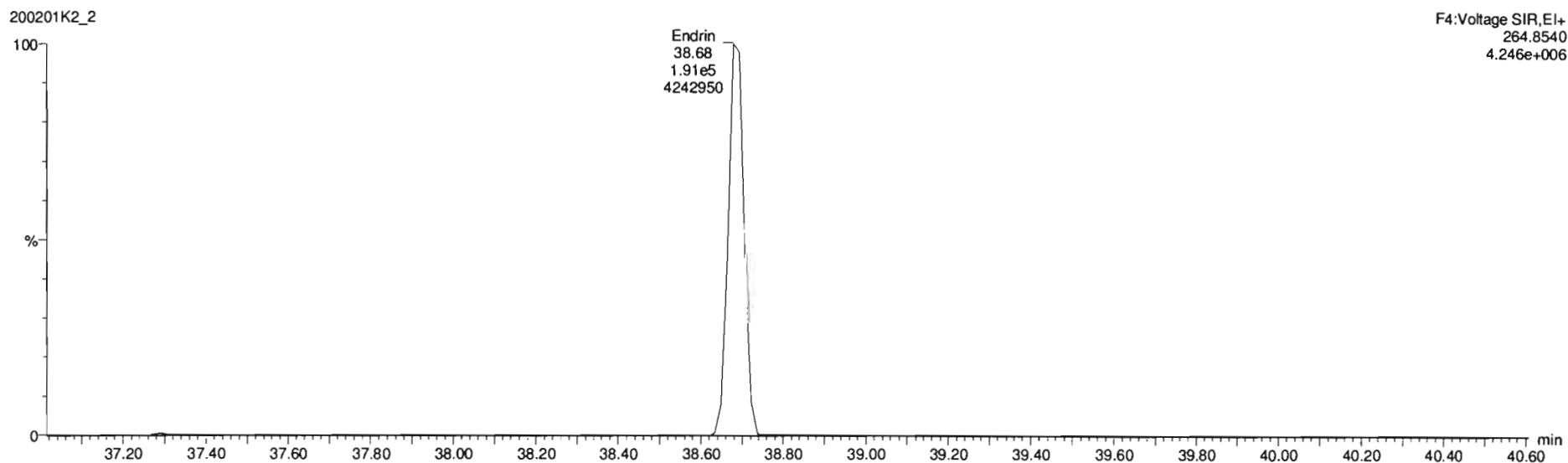
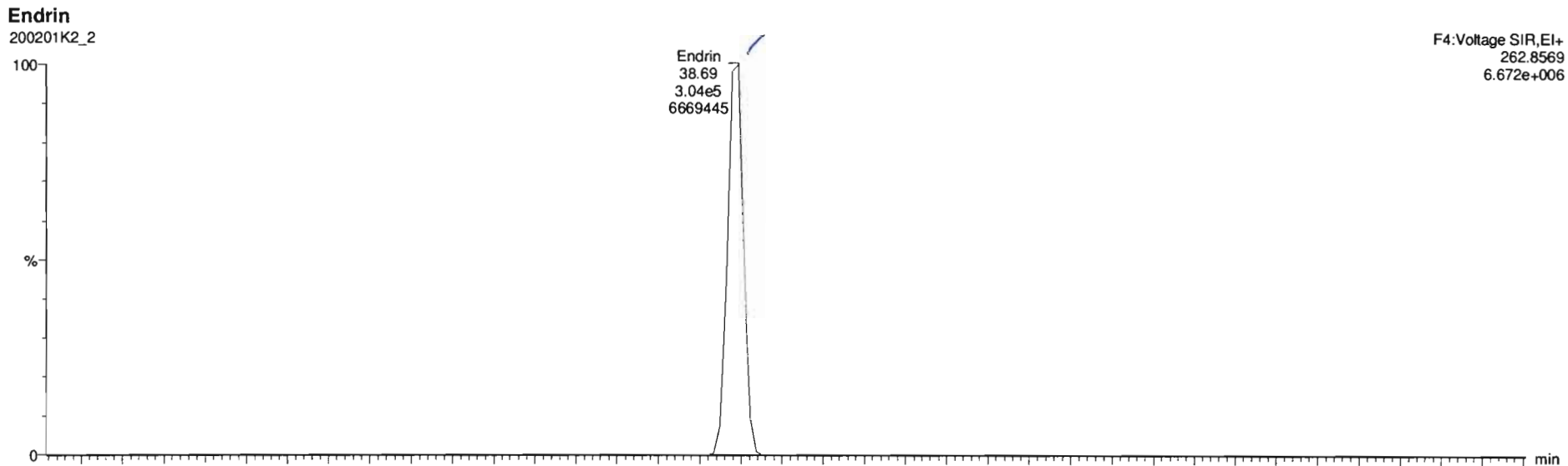
#	Name	Resp	RA	n/y	RRF	wVol	RT	RRT	Conc.	%Rec	DL	EMPC
1	Endrin Aldehyde	1.48e3	0.74	NO		1.000	40.82	0.000				
2	Endrin Ketone	5.39e3	0.58	NO		1.000	44.00	0.000				
3	Endrin	4.95e5	1.59	NO		1.000	38.69	0.000				
4	4,4'-DDE			NO		1.000						
5	4,4'-DDD	1.71e4	1.55	NO		1.000	39.18	0.000				
6	4,4'-DDT	9.25e6	1.57	NO		1.000	40.24	0.000				
7	PFK4					1.000						
8	PFK5					1.000						



Dataset: Untitled

Last Altered: Sunday, February 02, 2020 12:20:24 Pacific Standard Time
Printed: Sunday, February 02, 2020 12:21:08 Pacific Standard Time

Name: 200201K2_2, Date: 01-Feb-2020, Time: 14:43:33, ID: GC200201K2-1 GC BREAK, Description: GC BREAK



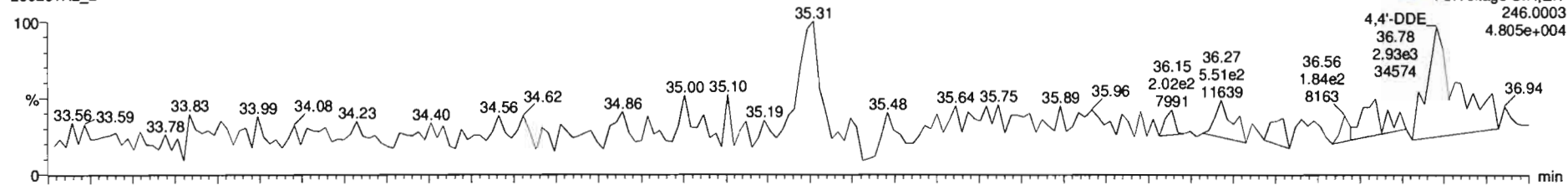
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 12:20:24 Pacific Standard Time
Printed: Sunday, February 02, 2020 12:21:08 Pacific Standard Time

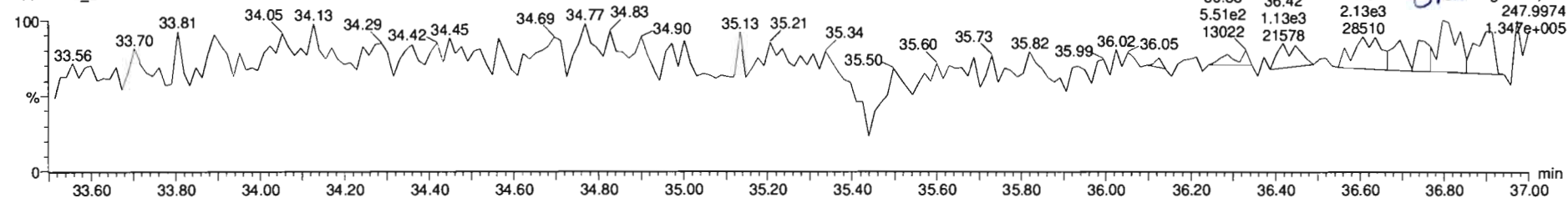
Name: 200201K2_2, Date: 01-Feb-2020, Time: 14:43:33, ID: GC200201K2-1 GC BREAK, Description: GC BREAK

4,4'-DDE

200201K2_2

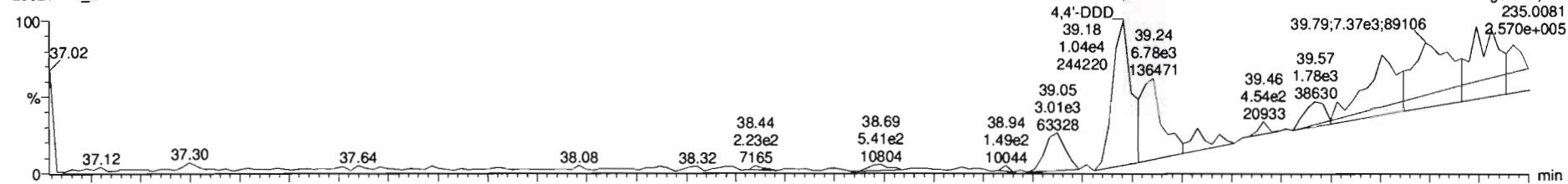


200201K2_2

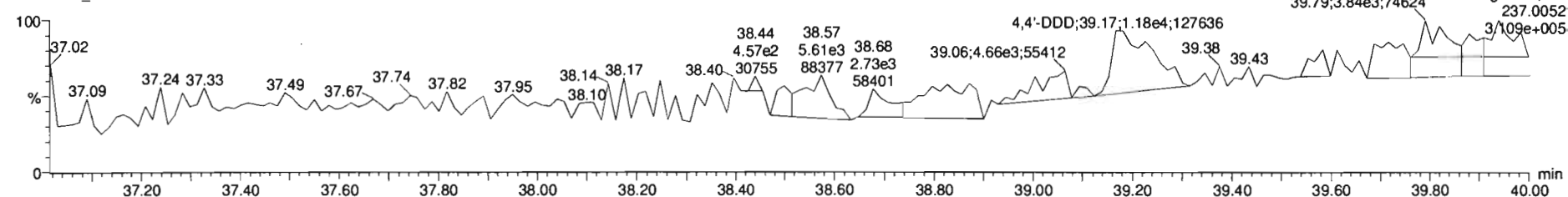


4,4'-DDD

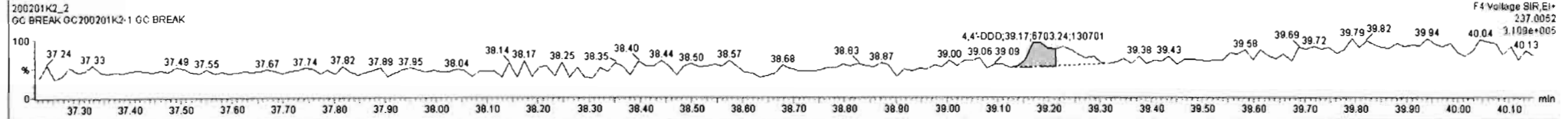
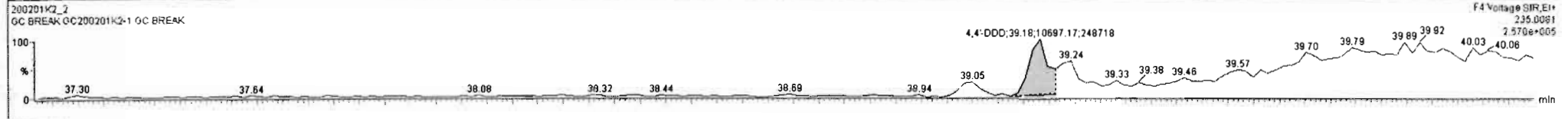
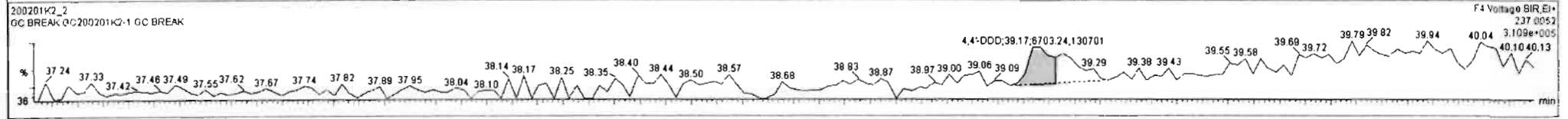
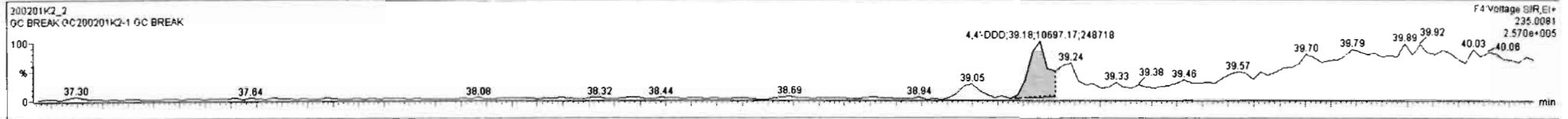
200201K2_2



200201K2_2



Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1 Endrin Aldehyde	1.48e3	0.74	NO		1.000	40.82	0.000				
2 Endrin Ketone	5.39e3	0.56	NO		1.000	44.00	0.000				
3 Endrin	4.95e5	1.59	NO		1.000	38.69	0.000				
4 4'-DDE			NO		1.000						
5 4'-DDD	1.74e4	1.60	NO		1.000	39.18	0.000				
6 4'-DDT	9.25e6	1.57	NO		1.000	40.24	0.000				
7 PFK4					1.000						
8 PFK5											

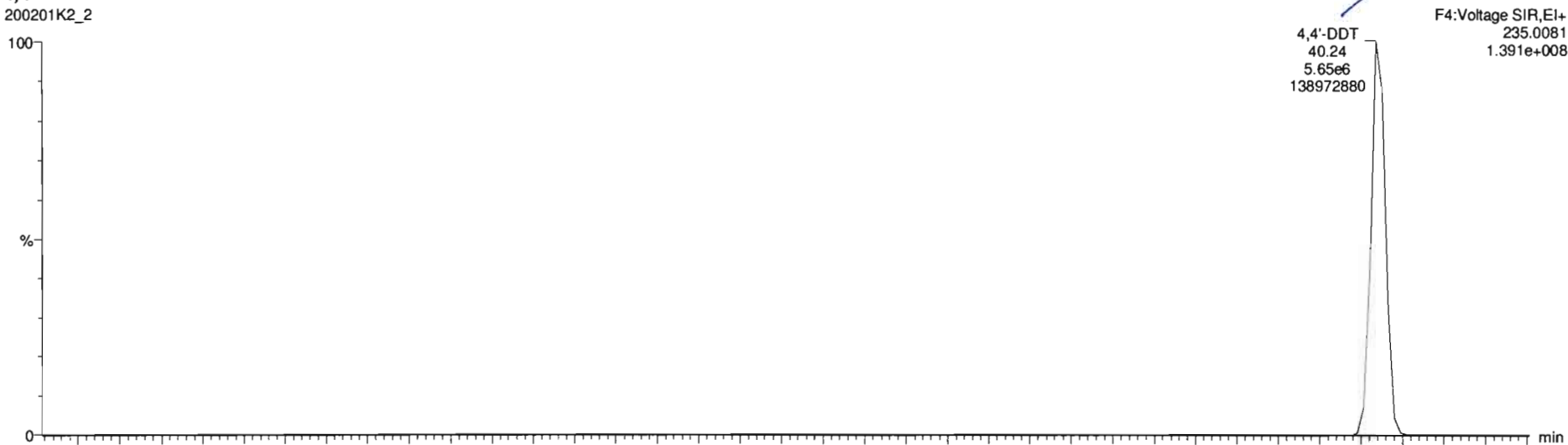


Dataset: Untitled

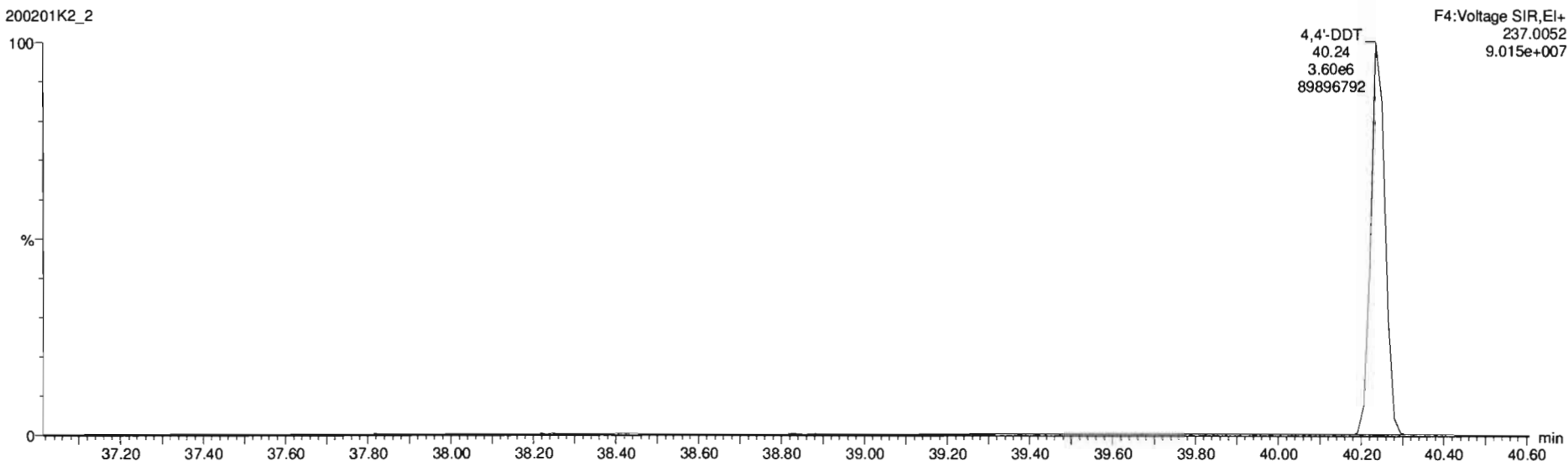
Last Altered: Sunday, February 02, 2020 12:20:24 Pacific Standard Time
Printed: Sunday, February 02, 2020 12:21:08 Pacific Standard Time

Name: 200201K2_2, Date: 01-Feb-2020, Time: 14:43:33, ID: GC200201K2-1 GC BREAK, Description: GC BREAK

4,4'-DDT
200201K2_2



200201K2_2



Dataset: Untitled

Last Altered: Sunday, February 02, 2020 12:15:58 Pacific Standard Time

Printed: Sunday, February 02, 2020 12:16:18 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1699rrt-01-25-2020.mdb 25 Jan 2020 13:55:51

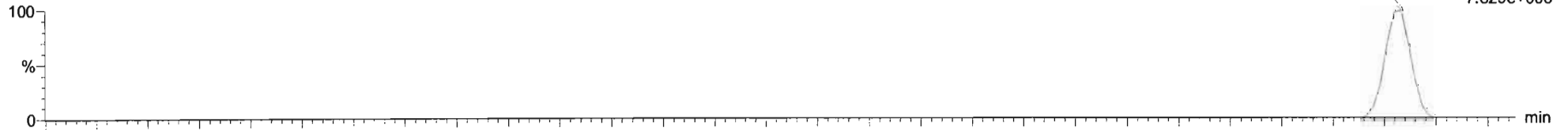
Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-1-25-20-LIMITED.cdb 27 Jan 2020 09:02:26

Name: 200201K2_1, Date: 01-Feb-2020, Time: 13:55:36, ID: ST200201K2-1 1699 CS3 19K1309, Description: 1699 CS3 19K1309

Hexachlorobenzene

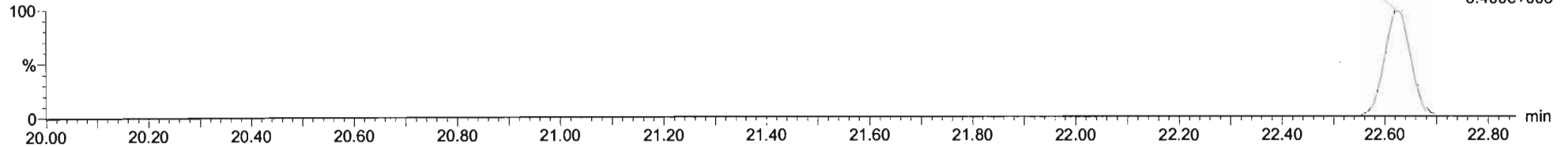
200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F1:Voltage SIR,EI+
Hexachlorobenzene;22.63;4.66e5;7818130;bb;15623.31
283.8102
7.829e+006



200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

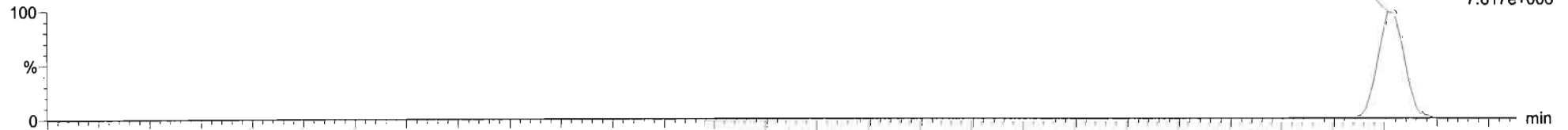
F1:Voltage SIR,EI+
Hexachlorobenzene;22.62;3.79e5;6391543;bb;9710.80
285.8072
6.400e+006



13C6-Hexachlorobenzene

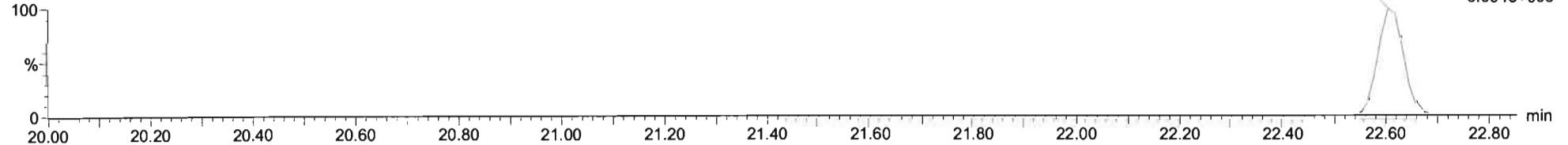
200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F1:Voltage SIR,EI+
13C6-Hexachlorobenzene;22.61;4.53e5;7606358;bb;8442.71
289.8303
7.617e+006



200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F1:Voltage SIR,EI+
13C6-Hexachlorobenzene;22.61;3.55e5;6087019;bb;8110.60
291.8273
6.094e+006



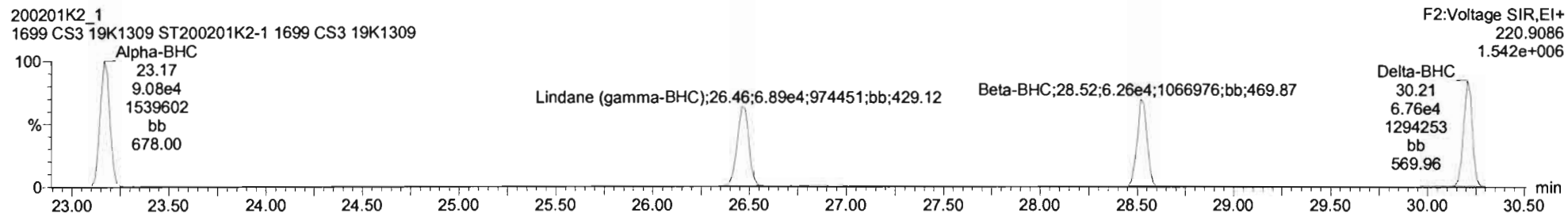
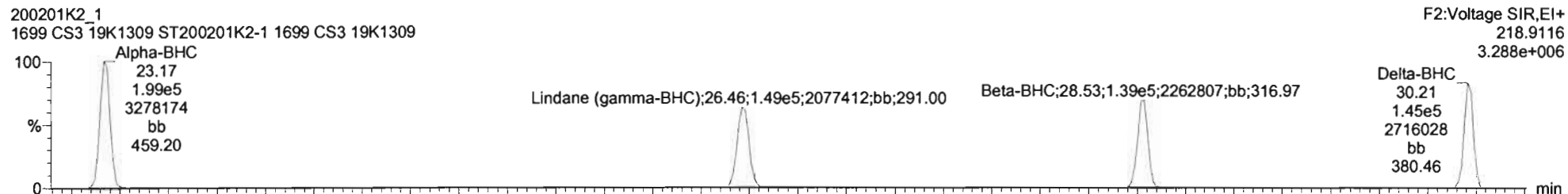
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 12:15:58 Pacific Standard Time

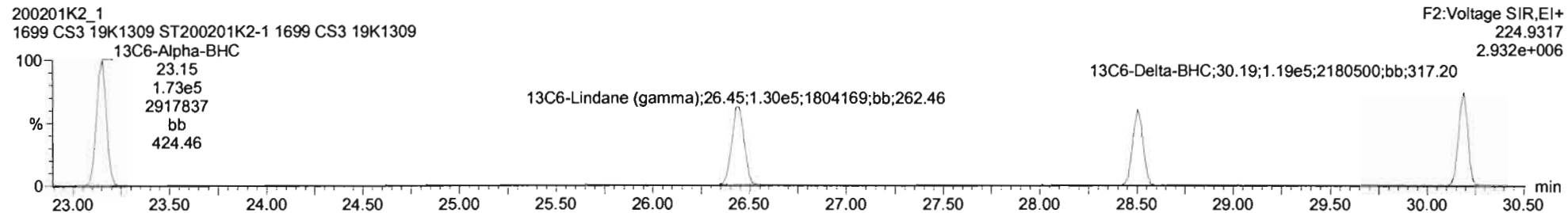
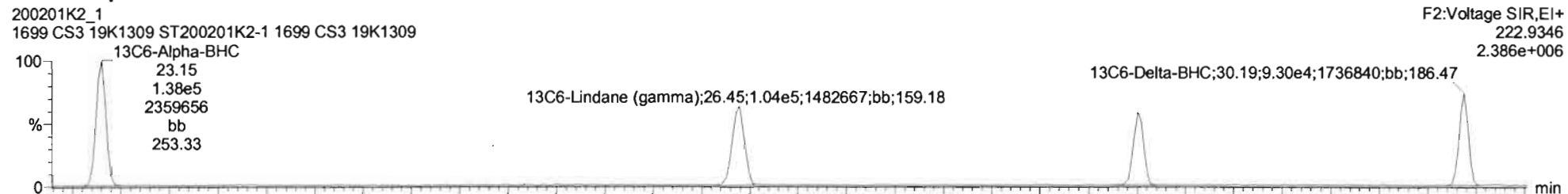
Printed: Sunday, February 02, 2020 12:16:18 Pacific Standard Time

Name: 200201K2_1, Date: 01-Feb-2020, Time: 13:55:36, ID: ST200201K2-1 1699 CS3 19K1309, Description: 1699 CS3 19K1309

BHC Totals



BHC-isotopes



Dataset: Untitled

Last Altered: Sunday, February 02, 2020 12:15:58 Pacific Standard Time

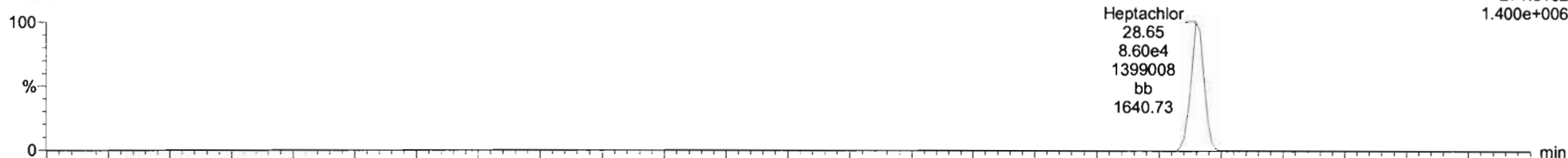
Printed: Sunday, February 02, 2020 12:16:18 Pacific Standard Time

Name: 200201K2_1, Date: 01-Feb-2020, Time: 13:55:36, ID: ST200201K2-1 1699 CS3 19K1309, Description: 1699 CS3 19K1309

Heptachlor

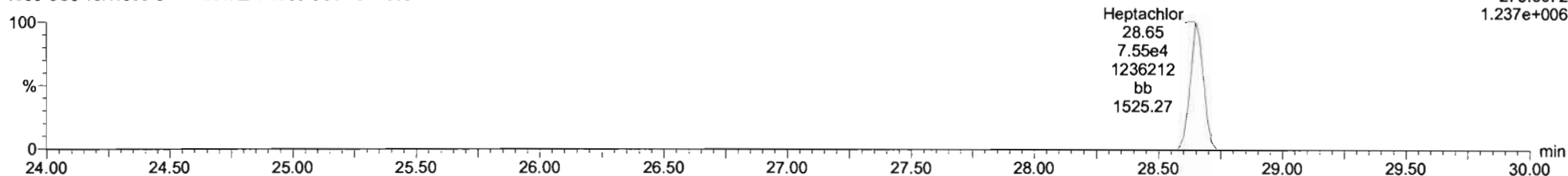
200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F2:Voltage SIR,EI+
271.8102
1.400e+006



200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

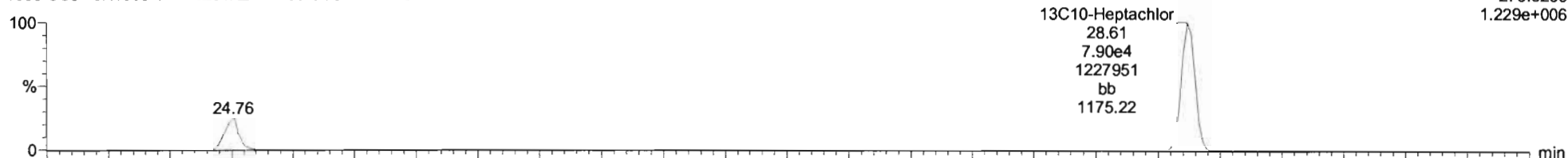
F2:Voltage SIR,EI+
273.8072
1.237e+006



13C10-Heptachlor

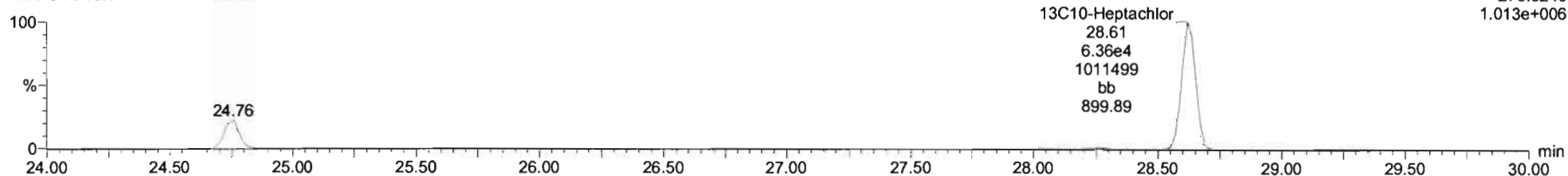
200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F2:Voltage SIR,EI+
276.8269
1.229e+006



200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F2:Voltage SIR,EI+
278.8240
1.013e+006



Dataset: Untitled

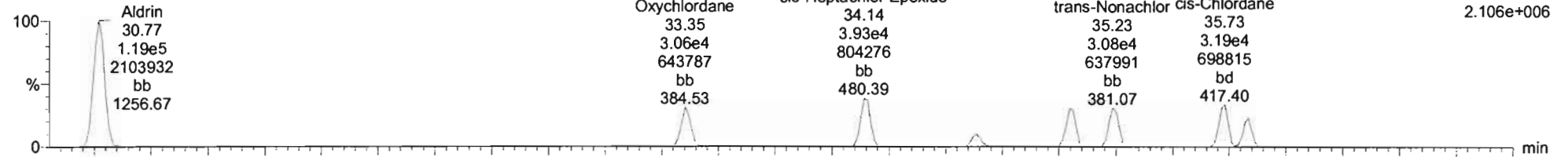
Last Altered: Sunday, February 02, 2020 12:15:58 Pacific Standard Time
Printed: Sunday, February 02, 2020 12:16:18 Pacific Standard Time

Name: 200201K2_1, Date: 01-Feb-2020, Time: 13:55:36, ID: ST200201K2-1 1699 CS3 19K1309, Description: 1699 CS3 19K1309

Aldrin-EI

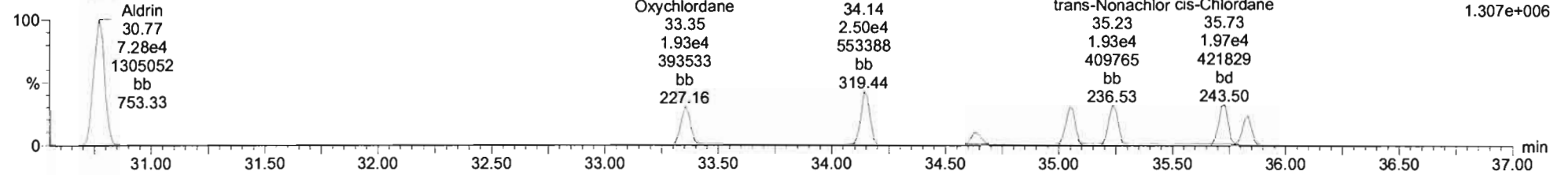
200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F3:Voltage SIR,EI+
262.8569
2.106e+006



200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

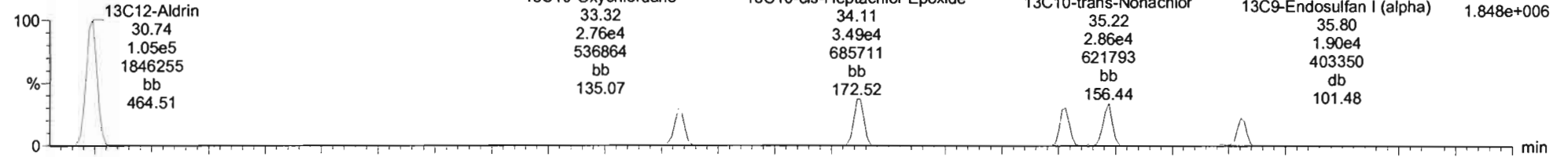
F3:Voltage SIR,EI+
264.8550
1.307e+006



Aldrin-EI-isotopes

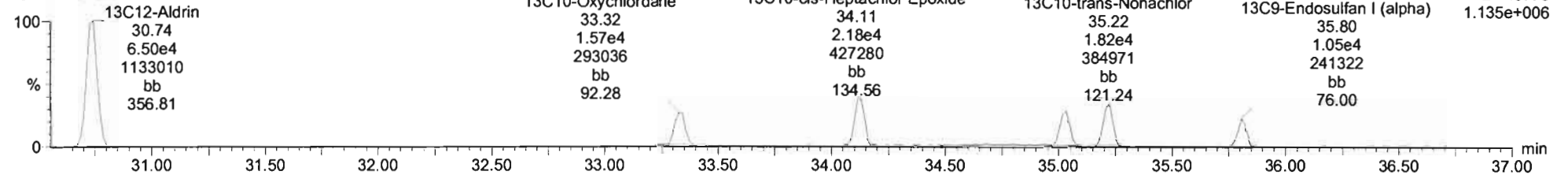
200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F3:Voltage SIR,EI+
269.8804
1.848e+006

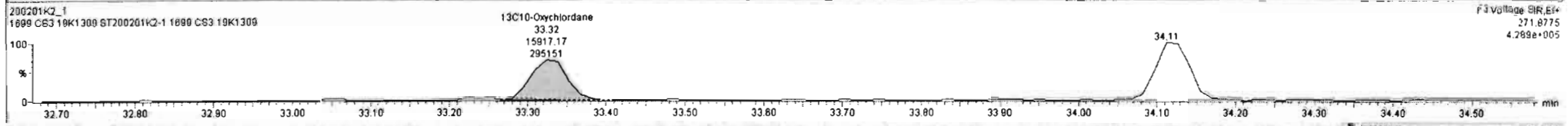
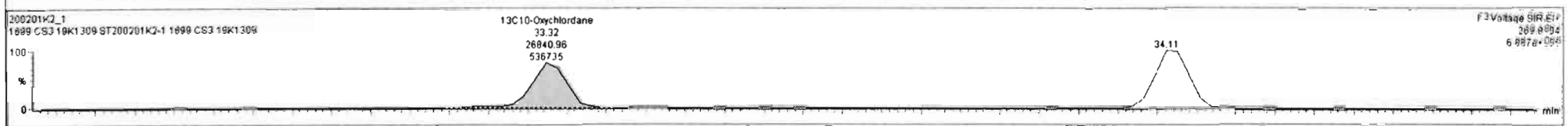
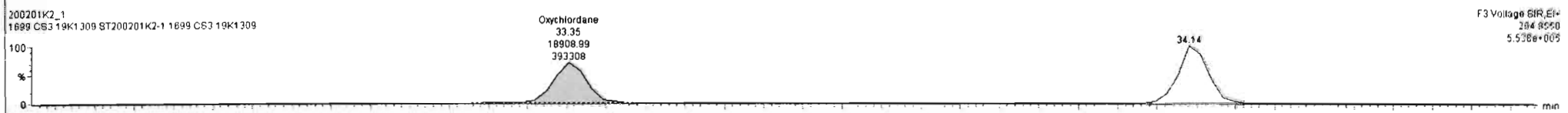
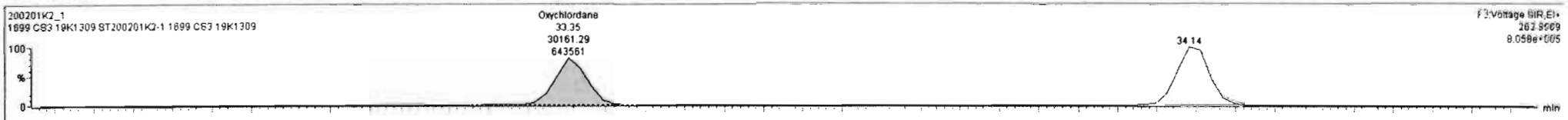


200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F3:Voltage SIR,EI+
271.8775
1.135e+006



#	Name	Resp	IS Resp	IS#	RA	nY	RRF	wtVol	Pred.RT	RT	RRT	Pred.RRT	Check.RRT	Conc.	%Rec	DL	EMPC
1	1 Hexachlorobutadiene	1.81e4	1.97e6	33	0.07	YES	0.0339	1.000	9.98	9.98	1.000	1.000	NO	135	54.1	0.539	16.3
2	2 Hexachlorobenzene	8.45e5	8.07e5	34	1.23	NO	0.9989	1.000	22.63	22.63	1.001	1.001	NO	52.5	105	0.0107	52.5
3	3 Alpha-BHC	2.90e5	3.11e5	35	2.19	NO	0.8617	1.000	23.20	23.17	1.001	1.002	NO	54.1	108	0.257	54.1
4	4 Lindane (gamma-BHC)	2.18e5	2.33e5	36	2.16	NO	0.8690	1.000	26.48	26.46	1.001	1.001	NO	53.7	107	0.405	53.7
5	5 Beta-BHC	2.02e5	1.84e5	37	2.22	NO	1.0173	1.000	28.51	28.53	1.001	1.000	NO	53.8	108	0.371	53.8
6	6 Delta-BHC	2.12e5	2.12e5	38	2.14	NO	0.9521	1.000	30.21	30.21	1.001	1.001	NO	52.6	105	0.312	52.6
7	7 Heptachlor	1.51e5	1.43e5	39	1.14	NO	1.0787	1.000	28.64	28.65	1.001	1.001	NO	52.5	105	0.0870	52.5
8	8 4,4'-DDMU	3.51e5	2.12e5	38	3.22	NO	1.2643	1.000	30.11	30.13	0.998	0.997	NO	65.4	131	0.289	65.4
9	9 Aldrin	1.92e5	1.70e5	40	1.64	NO	1.1111	1.000	30.77	30.77	1.001	1.001	NO	50.9	102	0.128	50.9
10	10 Oxychlordane	4.91e4	4.28e4	41	1.60	NO	1.0939	1.000	33.34	33.35	1.001	1.001	NO	52.5	105	0.455	52.5
11	11 cis-Heptachlor Epoxide	6.42e4	5.88e4	42	1.57	NO	1.1319	1.000	34.13	34.14	1.001	1.001	NO	50.0	100	0.338	50.0
12	12 trans-Heptachlor Epoxide	1.53e4	5.88e4	42	1.50	NO	0.2603	1.000	34.62	34.84	1.015	1.015	NO	51.7	103	1.47	51.7
13	13 trans-Chlordane (gamma...)	4.77e4	4.18e4	43	1.63	NO	1.1780	1.000	35.05	35.05	1.000	1.001	NO	48.4	96.8	0.414	48.4
14	14 trans-Nonachlor	5.01e4	4.68e4	44	1.59	NO	1.0766	1.000	35.24	35.23	1.000	1.001	NO	49.7	99.4	0.389	49.7
15	15 cis-Chlordane	5.16e4	4.68e4	44	1.62	NO	1.1080	1.000	35.72	35.73	1.014	1.014	NO	49.8	99.6	0.378	49.8
16	16 Endosulfan I (alpha)	3.37e4	2.95e4	45	1.48	NO	1.1552	1.000	35.83	35.83	1.001	1.001	NO	49.5	98.9	0.588	49.5
17	17 4,4'-DDMU	7.33e5	1.00e6	46	3.15	NO	0.6758	1.000	35.48	35.48	0.994	0.994	NO	54.2	108	0.0820	54.2
18	18 2,4'-DDE	9.85e5	1.00e6	46	1.35	NO	0.9841	1.000	35.70	35.70	1.000	1.000	NO	50.0	100	0.252	50.0



Dataset: Untitled

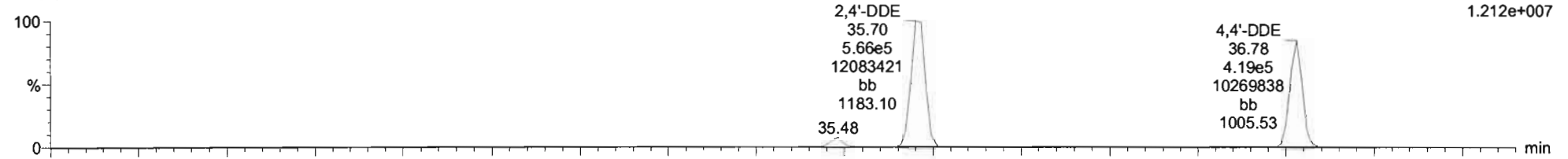
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Printed: Sunday, February 02, 2020 12:16:18 Pacific Standard Time

Name: 200201K2_1, Date: 01-Feb-2020, Time: 13:55:36, ID: ST200201K2-1 1699 CS3 19K1309, Description: 1699 CS3 19K1309

DDMU-DDE

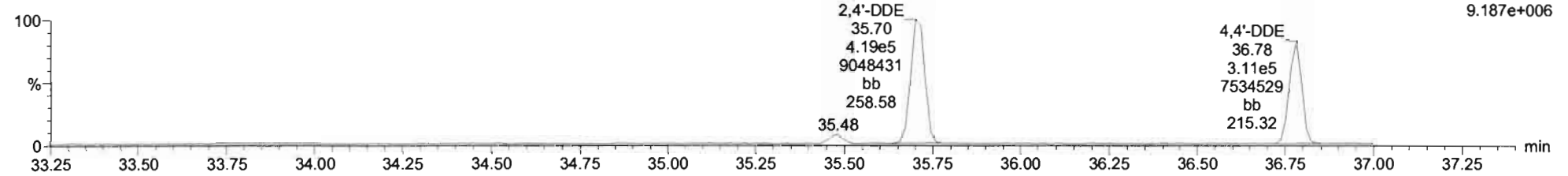
200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F3:Voltage SIR,EI+
246.0003
1.212e+007



200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

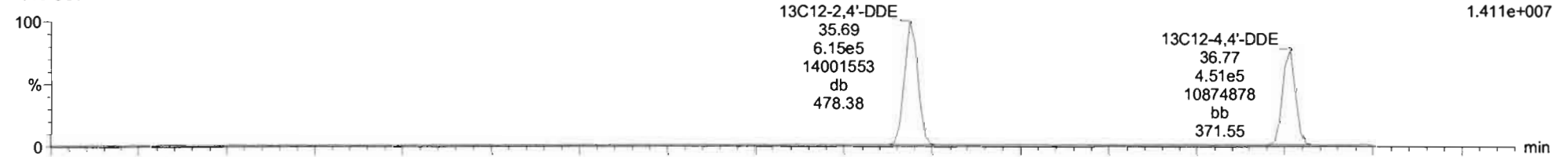
F3:Voltage SIR,EI+
247.9974
9.187e+006



DDE-isotopes

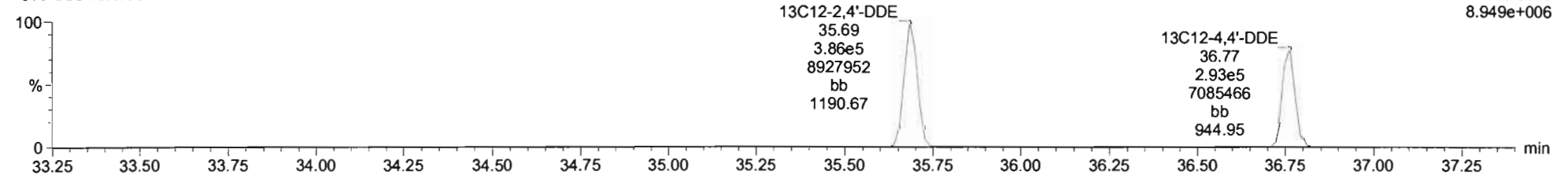
200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F3:Voltage SIR,EI+
258.0406
1.411e+007



200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F3:Voltage SIR,EI+
260.0376
8.949e+006



Dataset: Untitled

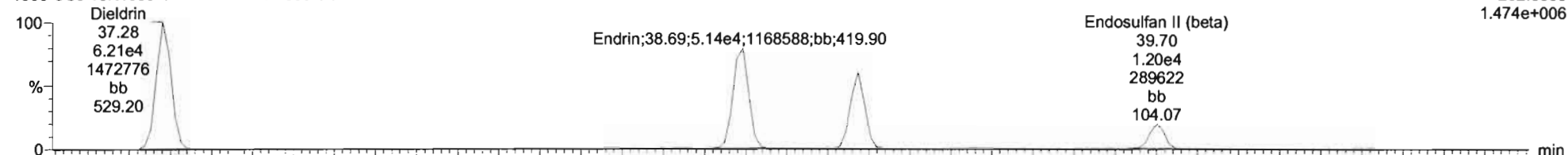
Last Altered: Sunday, February 02, 2020 12:15:58 Pacific Standard Time
Printed: Sunday, February 02, 2020 12:16:18 Pacific Standard Time

Name: 200201K2_1, Date: 01-Feb-2020, Time: 13:55:36, ID: ST200201K2-1 1699 CS3 19K1309, Description: 1699 CS3 19K1309

Dieldrin-ElI

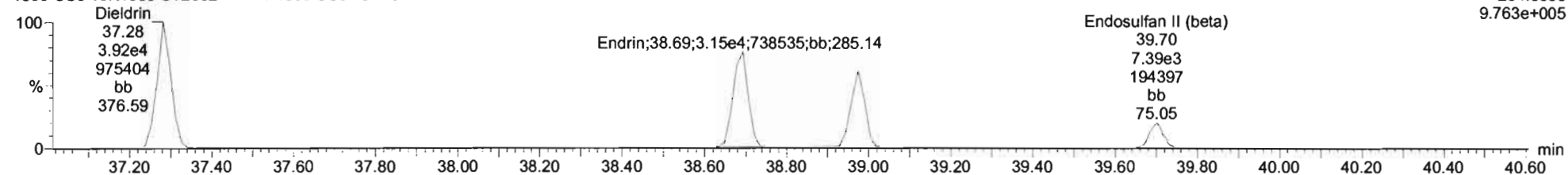
200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F4:Voltage SIR,EI+
262.8569
1.474e+006



200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

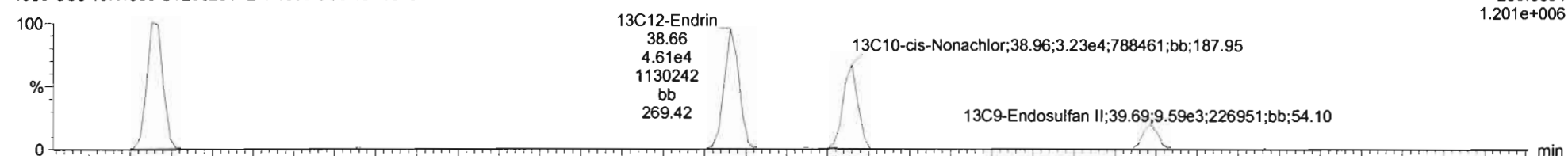
F4:Voltage SIR,EI+
264.8550
9.763e+005



Dieldrin-ElI-isotopes

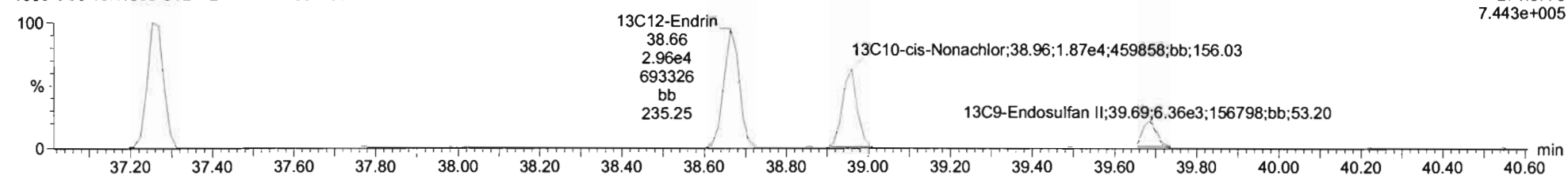
200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F4:Voltage SIR,EI+
269.8804
1.201e+006



200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F4:Voltage SIR,EI+
271.8775
7.443e+005



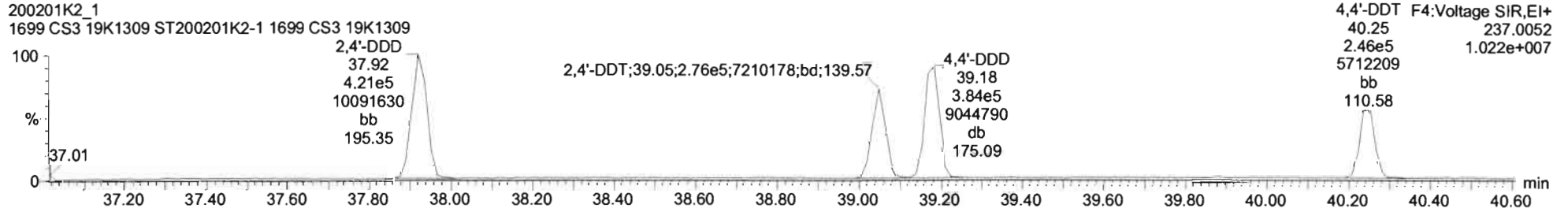
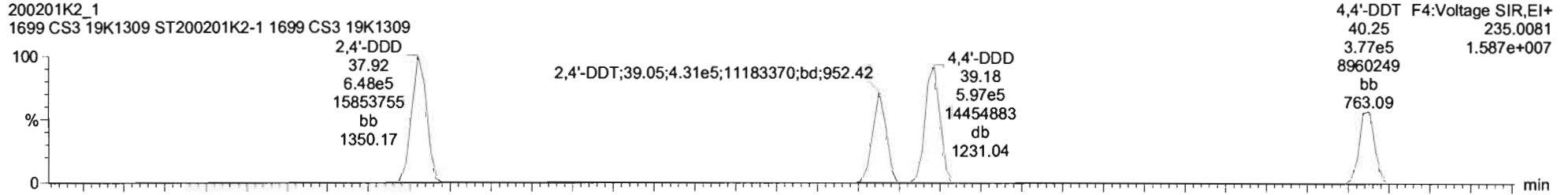
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Last Altered: Sunday, February 02, 2020 12:15:58 Pacific Standard Time

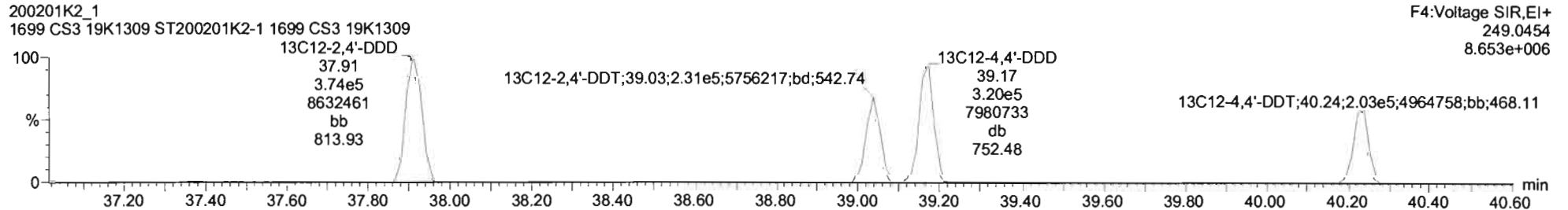
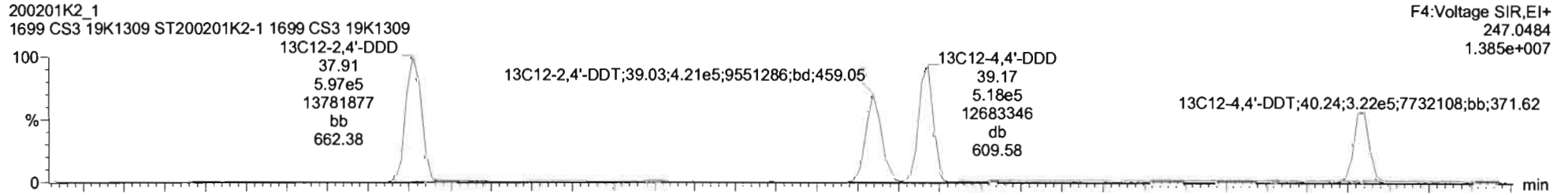
Printed: Sunday, February 02, 2020 12:16:18 Pacific Standard Time

Name: 200201K2_1, Date: 01-Feb-2020, Time: 13:55:36, ID: ST200201K2-1 1699 CS3 19K1309, Description: 1699 CS3 19K1309

DDD-DDT



DDD-DDT-isotopes



Dataset: Untitled

Last Altered: Sunday, February 02, 2020 12:15:58 Pacific Standard Time

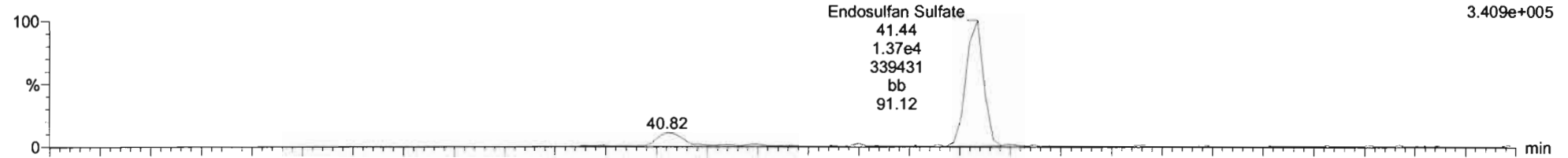
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Name: 200201K2_1, Date: 01-Feb-2020, Time: 13:55:36, ID: ST200201K2-1 1699 CS3 19K1309, Description: 1699 CS3 19K1309

Endosulfan Sulfate

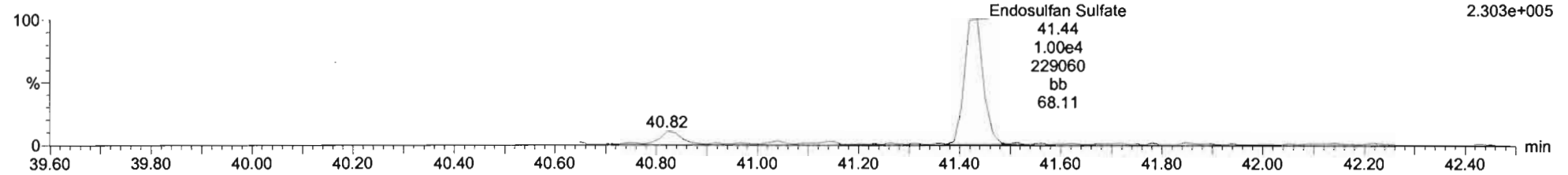
200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F5:Voltage SIR,EI+
262.8569
3.409e+005



200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

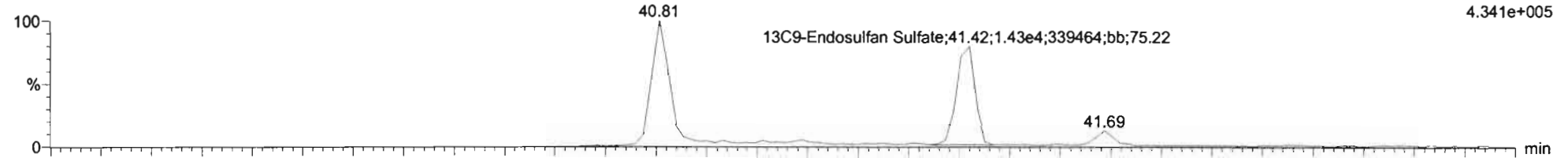
F5:Voltage SIR,EI+
264.8540
2.303e+005



13C9-Endosulfan Sulfate

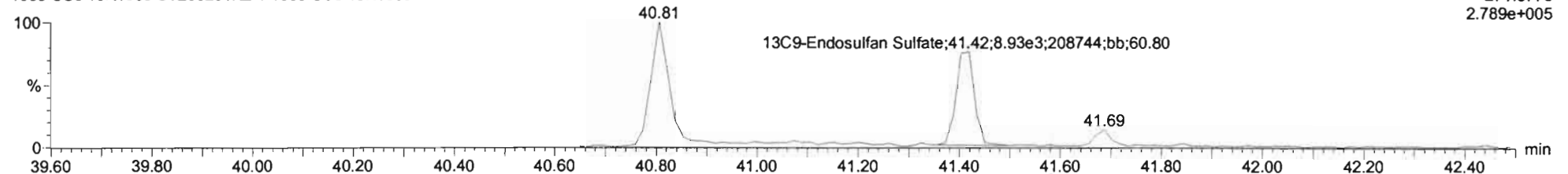
200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F5:Voltage SIR,EI+
269.8804
4.341e+005



200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F5:Voltage SIR,EI+
271.8775
2.789e+005



Dataset: Untitled

Last Altered: Sunday, February 02, 2020 12:15:58 Pacific Standard Time

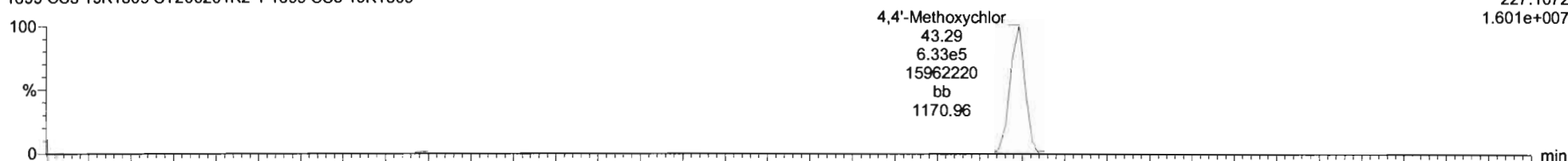
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Name: 200201K2_1, Date: 01-Feb-2020, Time: 13:55:36, ID: ST200201K2-1 1699 CS3 19K1309, Description: 1699 CS3 19K1309

4,4'-Methoxychlor

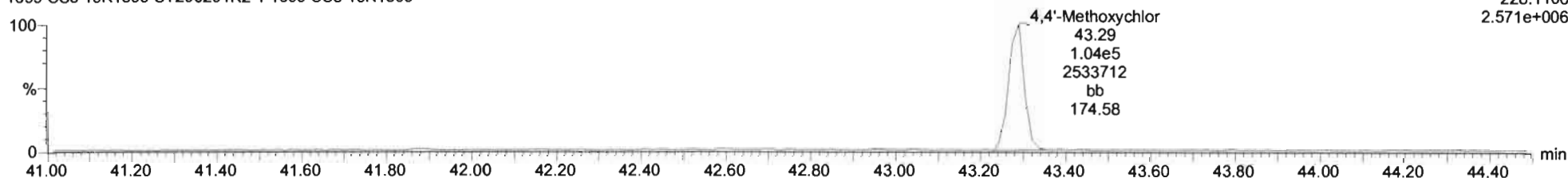
200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F5:Voltage SIR,EI+
227.1072
1.601e+007



200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

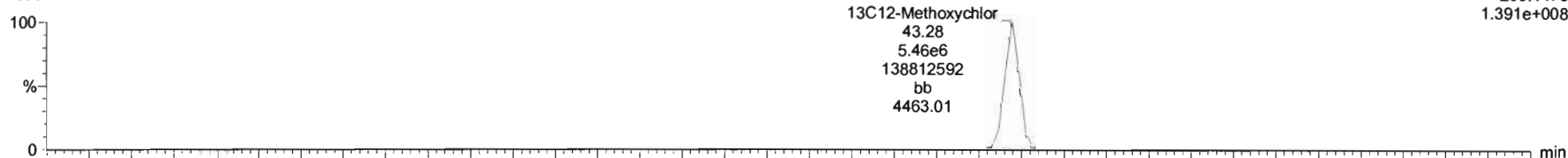
F5:Voltage SIR,EI+
228.1106
2.571e+006



13C12-Methoxychlor

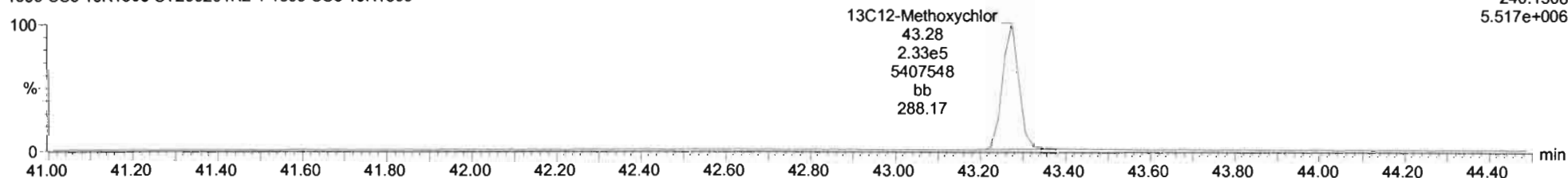
200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F5:Voltage SIR,EI+
239.1475
1.391e+008



200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F5:Voltage SIR,EI+
240.1508
5.517e+006



Dataset: Untitled

Last Altered: Sunday, February 02, 2020 12:15:58 Pacific Standard Time

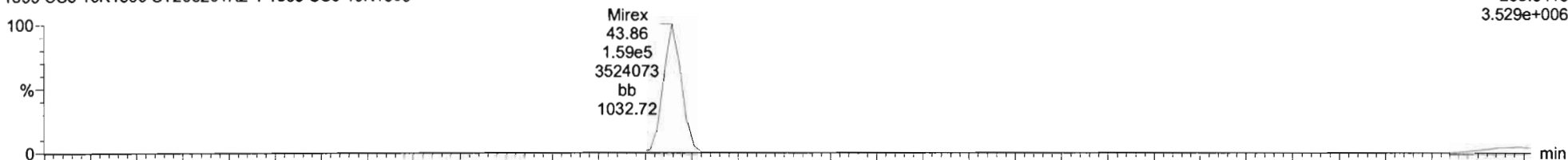
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Name: 200201K2_1, Date: 01-Feb-2020, Time: 13:55:36, ID: ST200201K2-1 1699 CS3 19K1309, Description: 1699 CS3 19K1309

Mirex

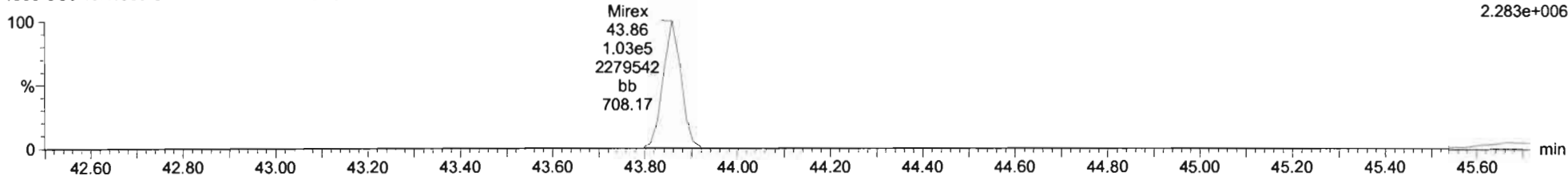
200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F5:Voltage SIR,EI+
236.8413
3.529e+006



200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

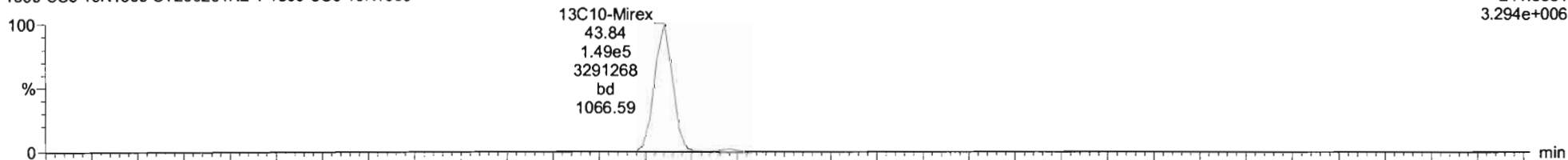
F5:Voltage SIR,EI+
238.8384
2.283e+006



13C10-Mirex

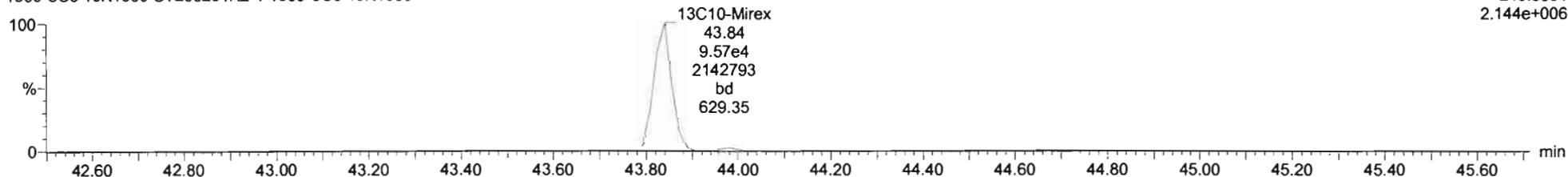
200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F5:Voltage SIR,EI+
241.8581
3.294e+006



200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F5:Voltage SIR,EI+
243.8551
2.144e+006



Dataset: Untitled

Last Altered: Sunday, February 02, 2020 12:15:58 Pacific Standard Time

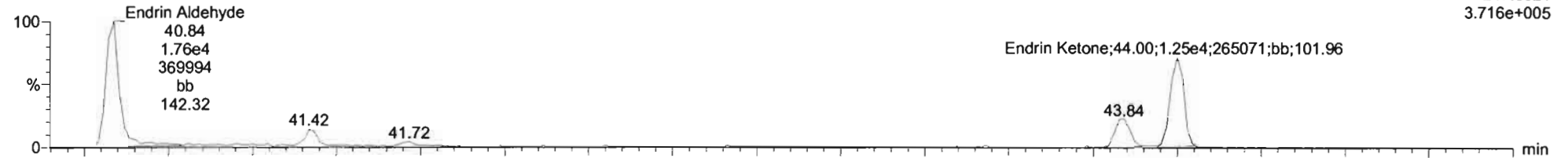
Printed: Sunday, February 02, 2020 12:16:18 Pacific Standard Time

Name: 200201K2_1, Date: 01-Feb-2020, Time: 13:55:36, ID: ST200201K2-1 1699 CS3 19K1309, Description: 1699 CS3 19K1309

EA-EK

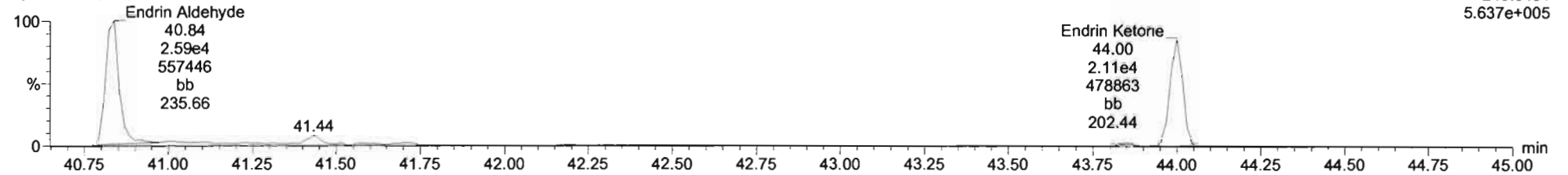
200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F5:Voltage SIR,EI+
247.8521
3.716e+005



200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

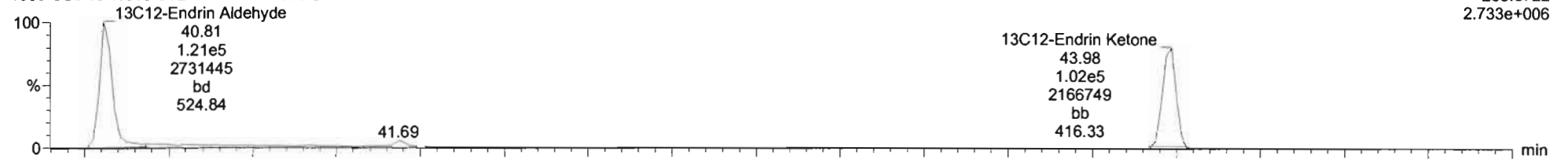
F5:Voltage SIR,EI+
249.8491
5.637e+005



EA-EK-isotopes

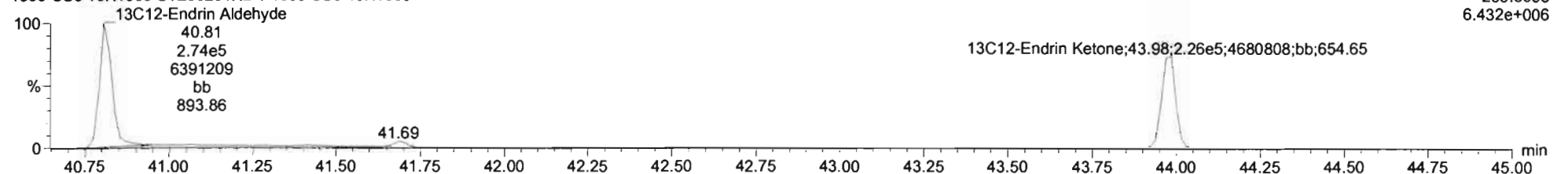
200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F5:Voltage SIR,EI+
253.8722
2.733e+006

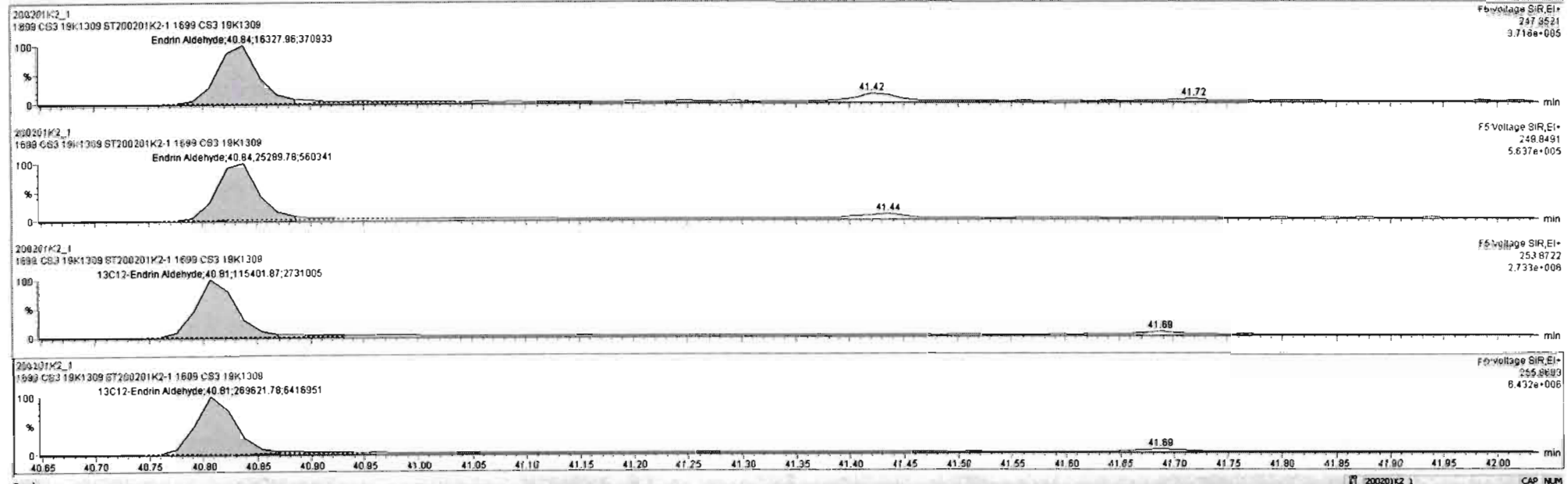


200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F5:Voltage SIR,EI+
255.8693
6.432e+006



#	Name	Resp	IS Resp	IS#	RA	nVt	RRF	wt/Vol	Pred.RT	RT	RRT	Pred.RRT	Check RRT	Conc.	%Rec	DL	EMPC
19	4,4'-DDE	7.30e5	7.43e5	47	1.35	NO	0.9961	1.000	36.78	36.78	1.000	1.000	NO	49.3	96.6	0.316	49.3
20	Dieldrin	1.01e5	8.87e4	48	1.58	NO	1.0934	1.000	37.27	37.28	1.001	1.000	NO	52.3	105	0.316	52.3
21	Endrin	8.30e4	7.57e4	49	1.63	NO	1.0568	1.000	38.66	38.69	1.001	1.000	NO	51.9	104	0.343	51.9
22	cis-Nonachlor	5.76e4	5.10e4	50	1.54	NO	1.0772	1.000	38.97	38.97	1.000	1.000	NO	52.5	105	0.501	52.5
23	Endosulfan I (beta)	1.94e4	1.60e4	51	1.62	NO	1.1102	1.000	39.69	39.70	1.000	1.000	NO	54.7	109	1.80	54.7
24	2,4'-DDD	1.07e6	9.70e5	52	1.54	NO	1.0482	1.000	37.91	37.92	1.000	1.000	NO	52.5	105	0.337	52.5
25	2,4'-DDT	7.07e5	6.52e5	53	1.58	NO	1.0290	1.000	39.05	39.05	1.000	1.000	NO	52.7	105	0.521	52.7
26	4,4'-DDD	9.80e5	8.38e5	54	1.55	NO	1.1242	1.000	39.19	39.18	1.000	1.000	NO	52.0	104	0.343	52.0
27	4,4'-DDT	6.23e5	5.25e5	55	1.53	NO	1.1306	1.000	40.26	40.25	1.000	1.000	NO	52.4	105	0.554	52.4
28	Endosulfan Sulfate	2.37e4	2.32e4	56	1.36	NO	0.9871	1.000	41.42	41.44	1.000	1.000	NO	51.7	103	1.63	51.7
29	4,4'-Methoxychlor	7.37e5	5.70e6	57	6.07	NO	1.2668	1.000	43.28	43.29	1.000	1.000	NO	51.1	102	0.182	51.1
30	Mirex	2.62e5	2.44e5	58	1.55	NO	1.0435	1.000	43.86	43.86	1.000	1.000	NO	51.5	103	0.147	51.5
31	Endrin Aldehyde	4.16e4	3.85e5	59	0.65	NO	1.0582	1.000	40.89	40.84	1.001	1.000	NO	51.1	102	0.644	51.1
32	Endrin Ketone	3.38e4	3.27e5	60	0.69	NO	0.9741	1.000	43.98	44.00	1.000	1.000	NO	52.7	105	0.912	52.7
33	13C4-Hexachlorobutadi...	1.97e6	1.22e6	62	1.29	NO	0.1267	1.000	9.93	9.98	0.385	0.383	NO	639	128	0.0996	
34	13C6-Hexachlorobenz...	8.07e5	1.22e6	62	1.27	NO	0.6741	1.000	22.63	22.61	0.871	0.872	NO	49.2	96.4	0.0175	
35	13C6-Alpha-BHC	3.11e5	1.22e6	62	0.80	NO	0.2548	1.000	23.16	23.15	0.892	0.892	NO	50.1	100	0.455	
36	13C6-Lindane (gamma)	2.33e5	1.22e6	62	0.80	NO	0.2007	1.000	26.42	26.45	1.019	1.018	NO	47.8	95.5	0.577	



Dataset: Untitled

Last Altered: Sunday, February 02, 2020 12:15:58 Pacific Standard Time

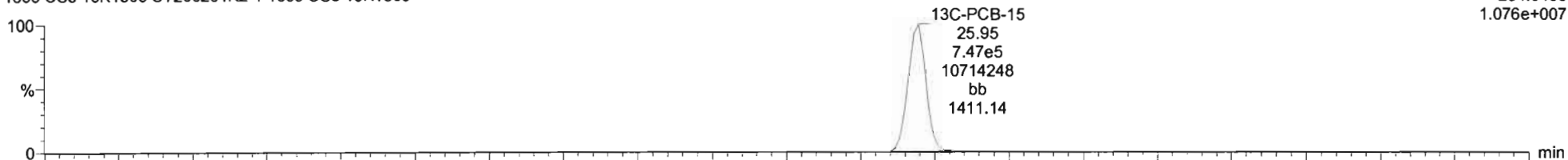
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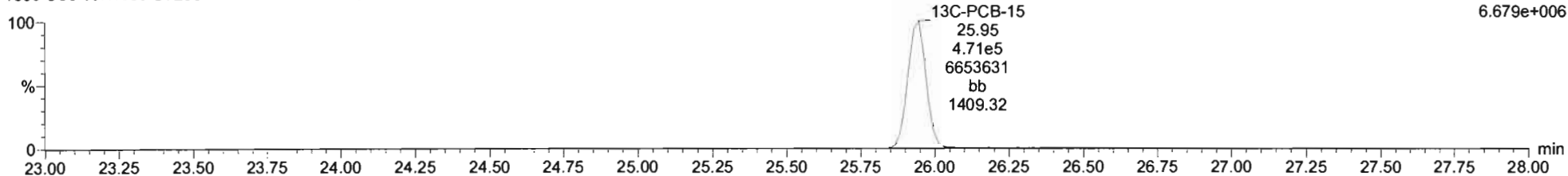
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1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F2:Voltage SIR,EI+
234.0406
1.076e+007



200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

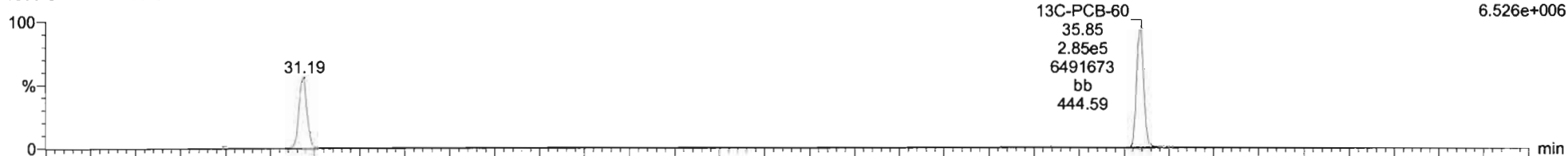
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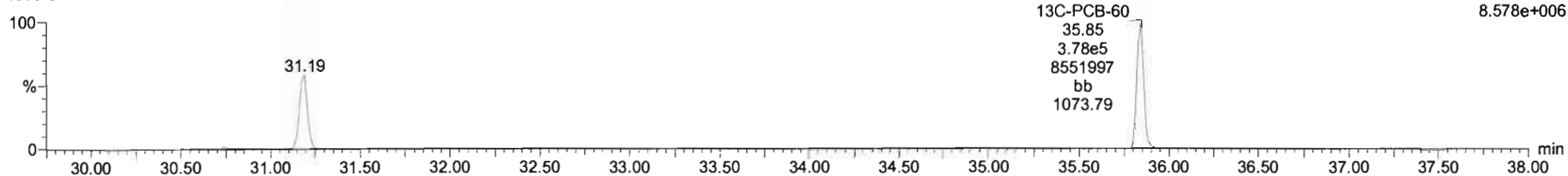
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1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F3:Voltage SIR,EI+
301.9626
6.526e+006



200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F3:Voltage SIR,EI+
303.9597
8.578e+006



Dataset: Untitled

Last Altered: Sunday, February 02, 2020 12:15:58 Pacific Standard Time

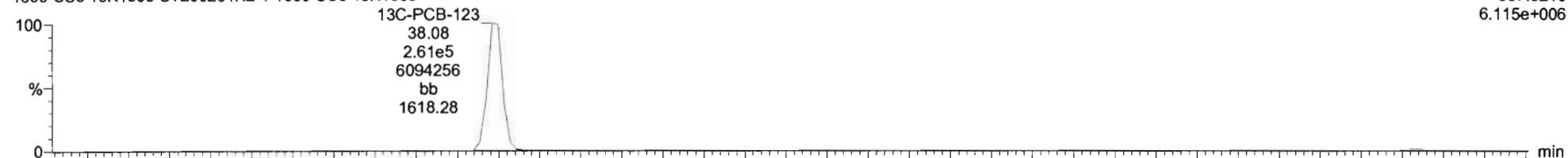
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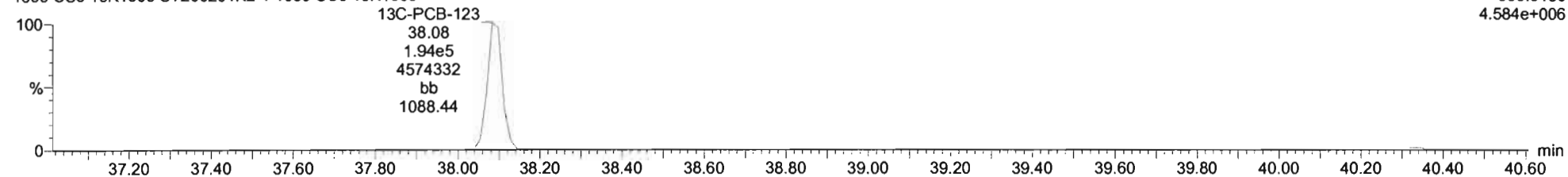
200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F4:Voltage SIR,EI+
337.9210
6.115e+006



200201K2_1
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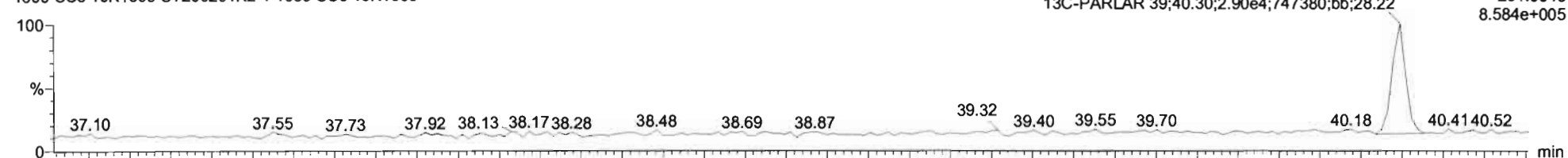
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339.9180
4.584e+006



13C-PARLAR 39

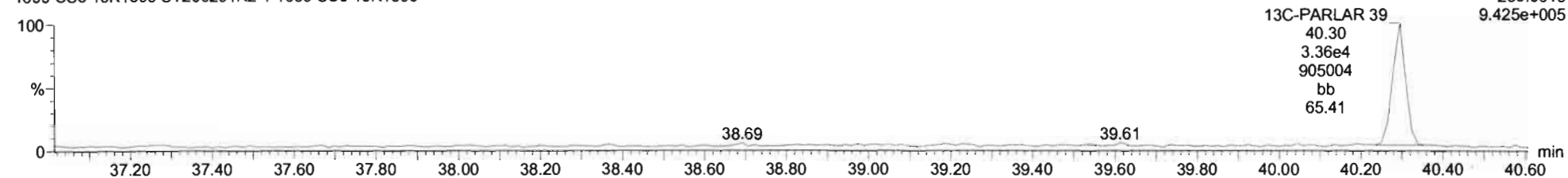
200201K2_1
1699 CS3 19K1309 ST200201K2-1 1699 CS3 19K1309

F4:Voltage SIR,EI+
251.9648
8.584e+005



200201K2_1
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F4:Voltage SIR,EI+
253.9619
9.425e+005



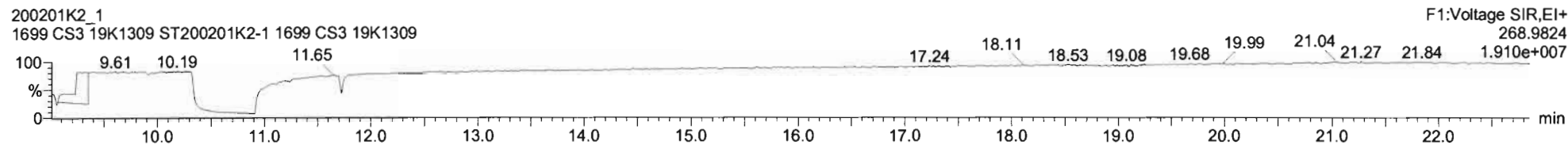
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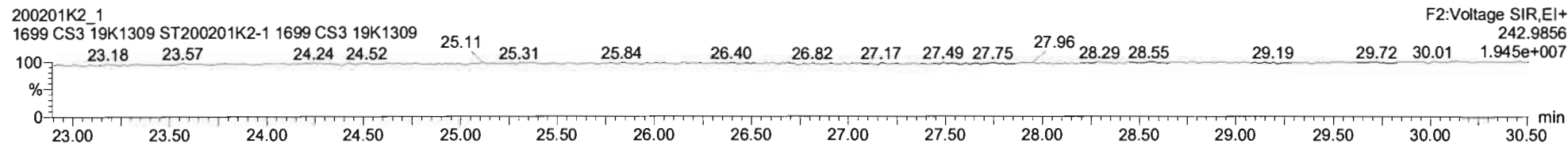
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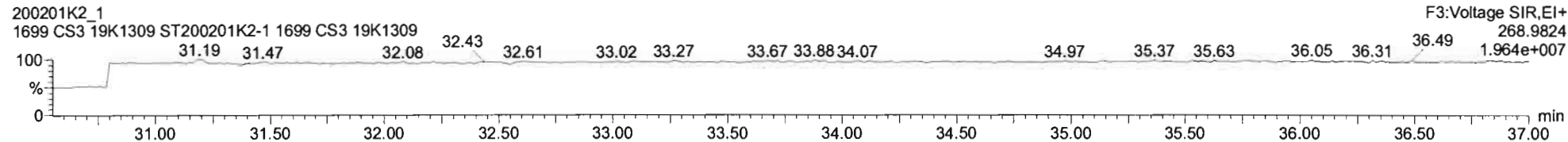
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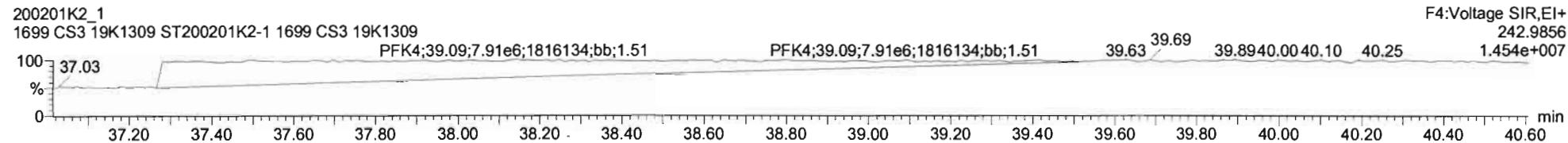
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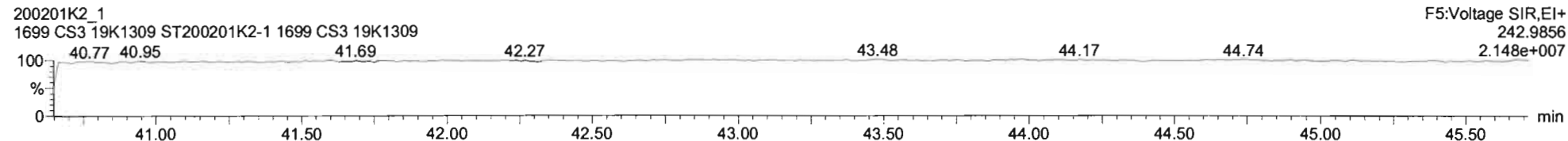
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PFK4

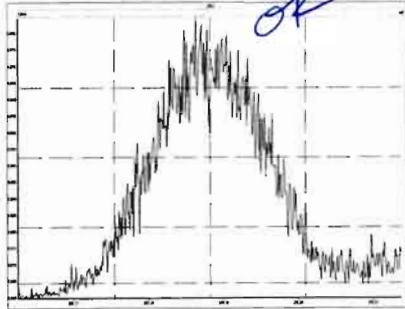


PFK5

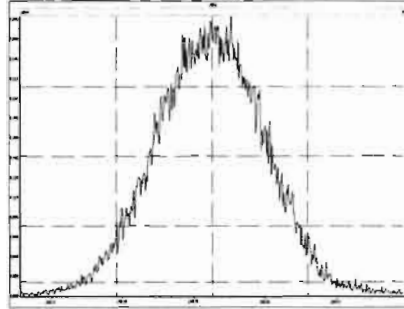


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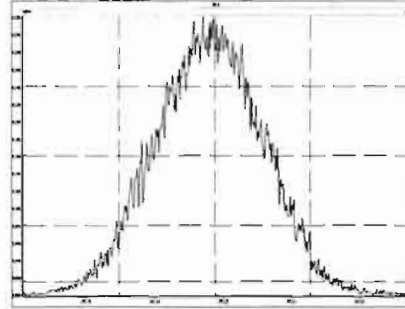
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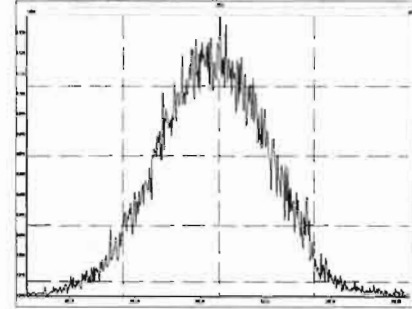
M 268.9824 R 7776



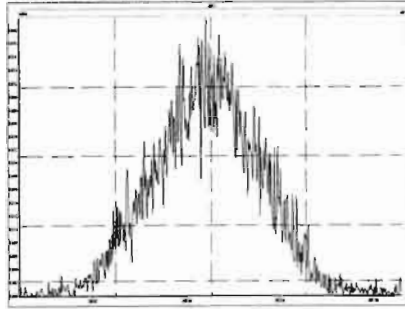
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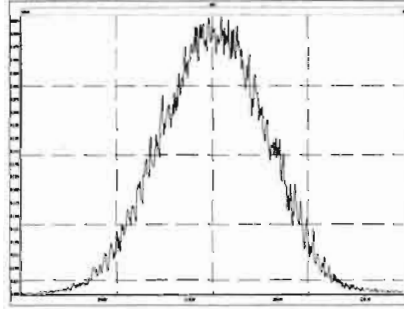
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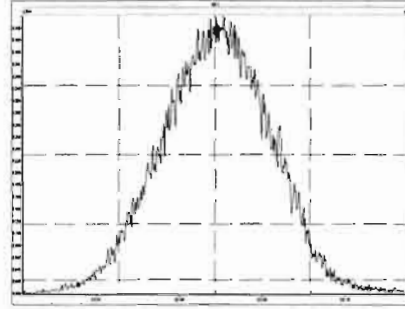
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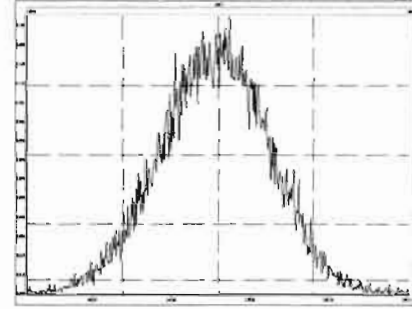
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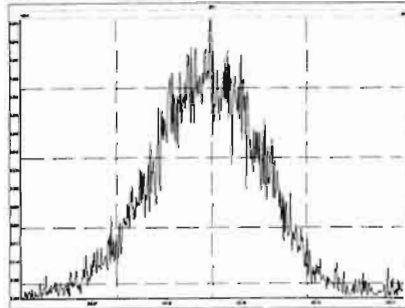
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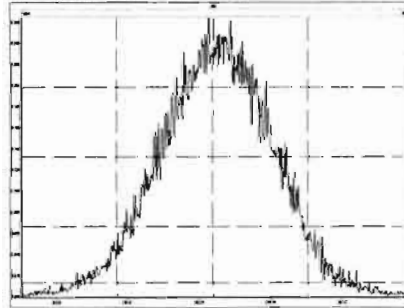
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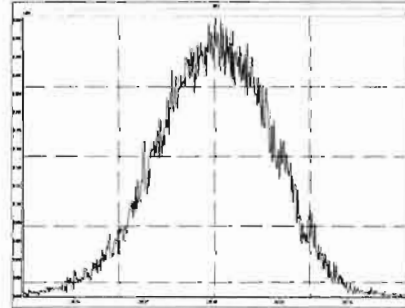
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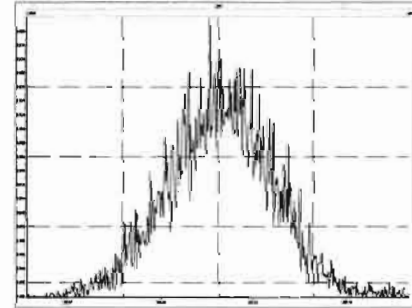
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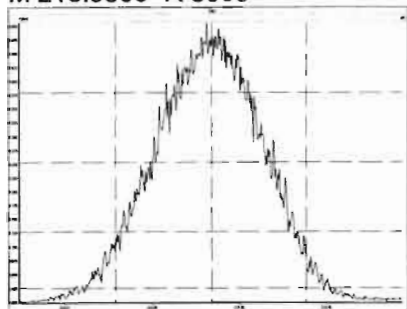
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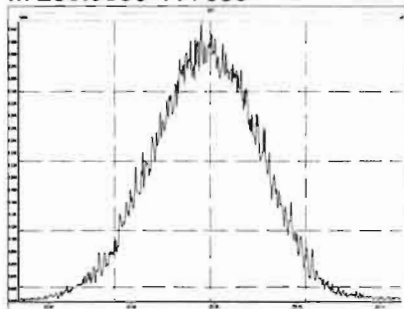
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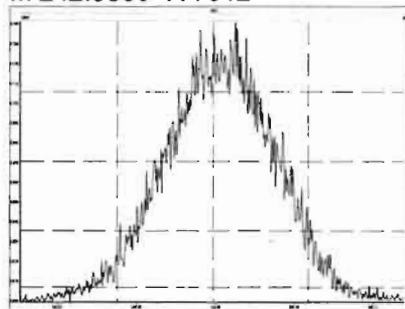
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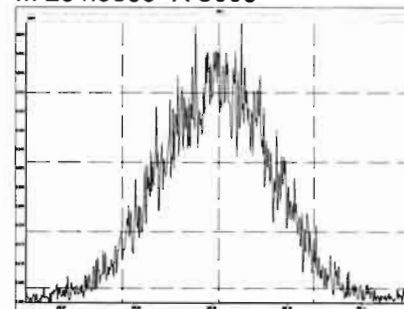
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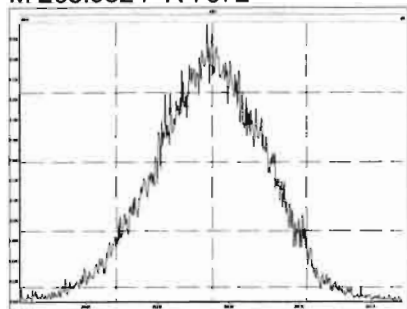
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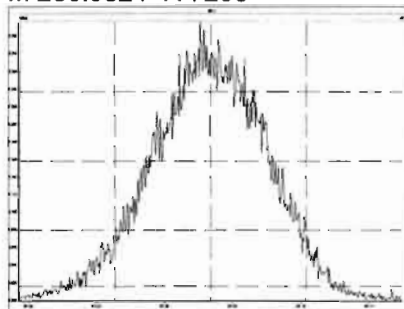
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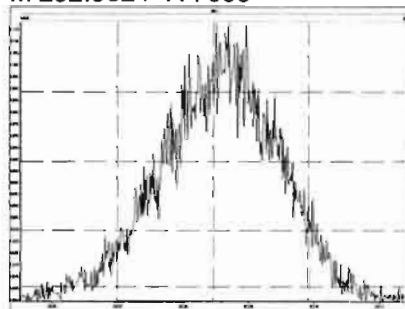
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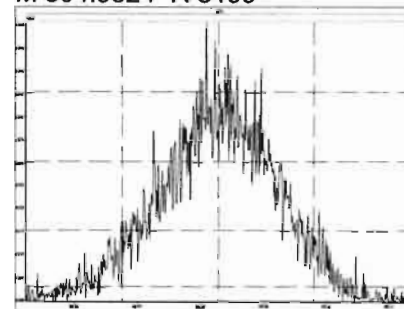
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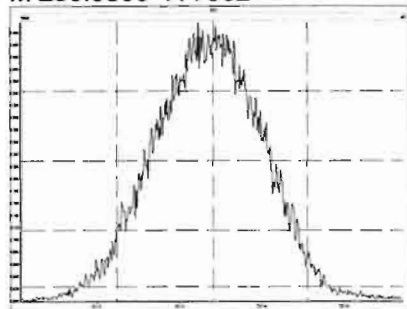
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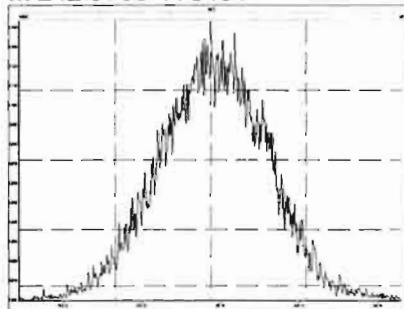
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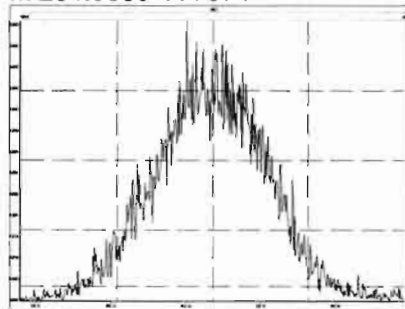
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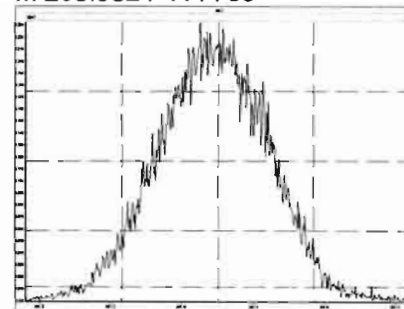
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M 254.9856 R 7974

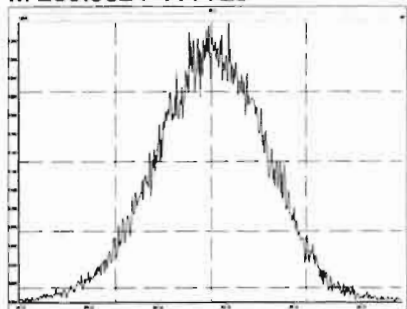


M 268.9824 R 7789

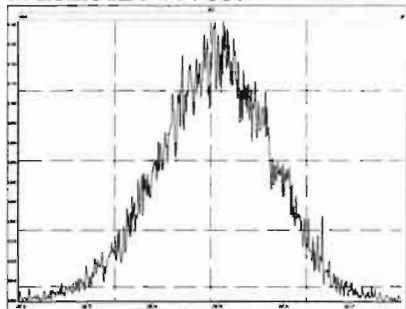


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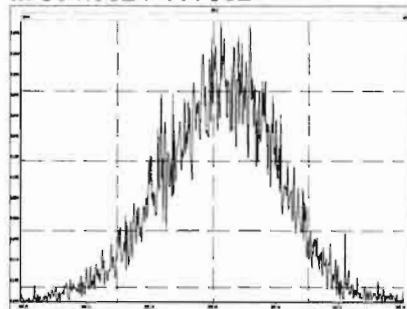
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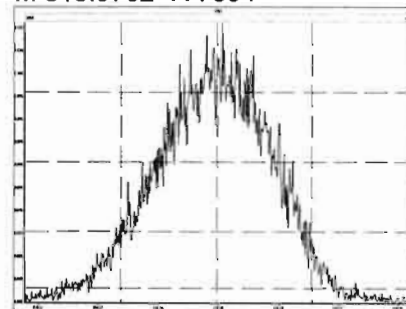
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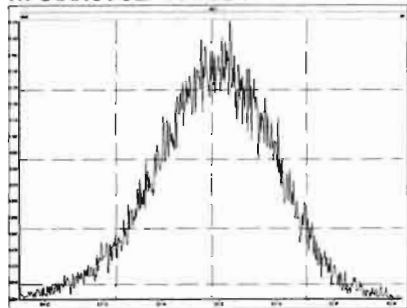
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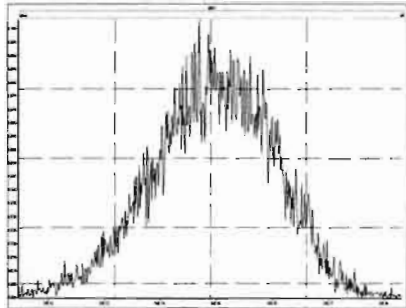
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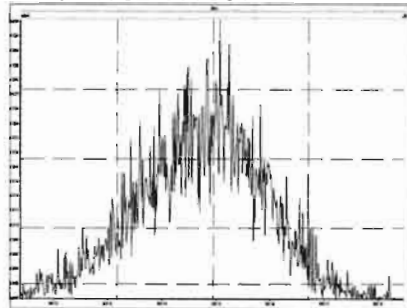
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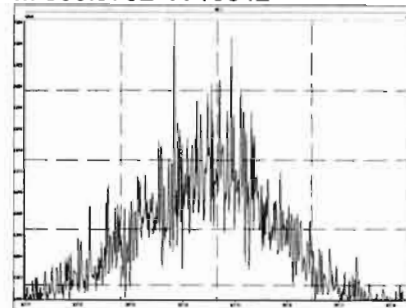
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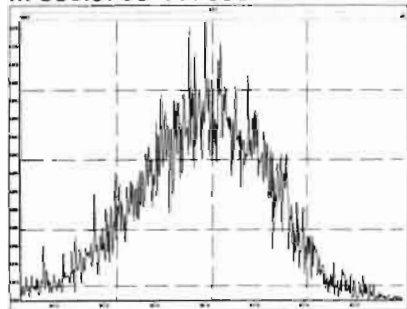
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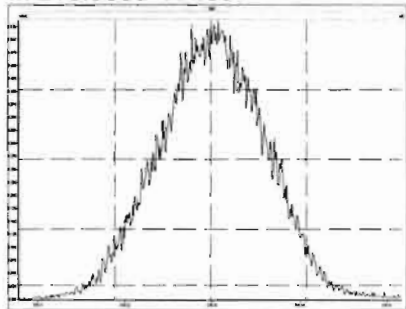
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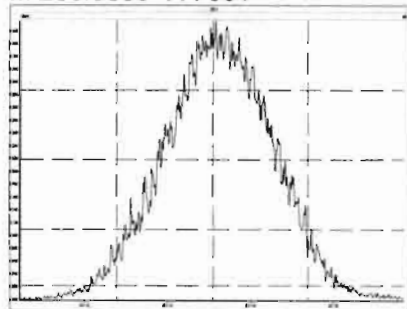
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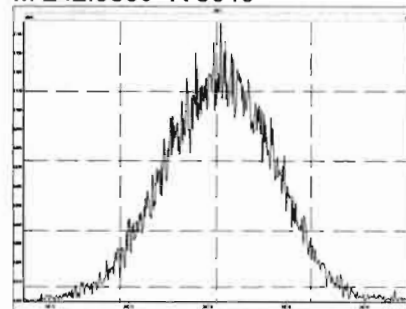
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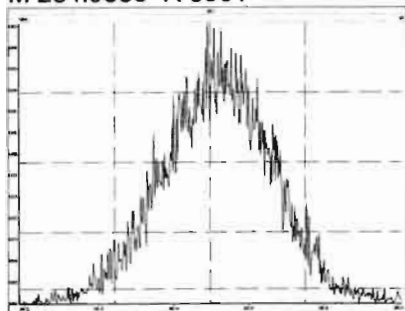
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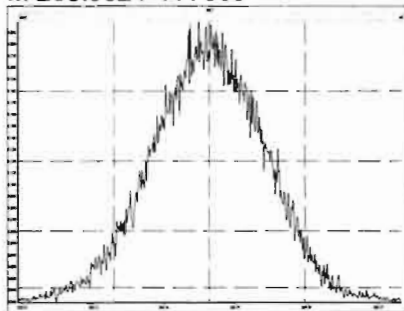
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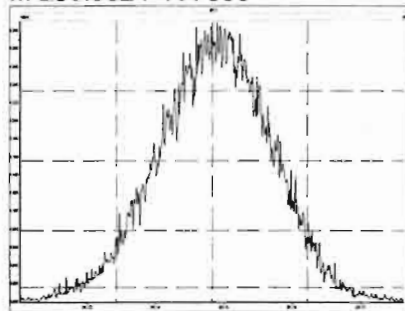
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M 268.9824 R 7659



M 280.9824 R 7385



INITIAL CALIBRATION

Data filename: 191009D1
 Samp# 1 0.25 Samp# 2 0.50 Samp# 3 2.0 Samp# 4 10 Samp# 5 40 Samp# 6 300

Name	Mean RRF	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6
2,3,7,8-TCDD	0.9053	7.55 %	0.84	0.83	0.87	0.99	0.92	0.98
1,2,3,7,8-PeCDD	0.9027	4.95 %	0.86	0.87	0.88	0.88	0.96	0.96
1,2,3,4,7,8-HxCDD	1.1013	3.97 %	1.12	1.13	1.03	1.08	1.09	1.15
1,2,3,6,7,8-HxCDD	0.9386	7.68 %	0.83	0.88	1.01	0.92	0.98	1.00
1,2,3,7,8,9-HxCDD	0.9613	4.62 %	0.95	0.90	0.93	0.95	1.00	1.03
1,2,3,4,6,7,8-HpCDD	0.9794	5.84 %	0.90	0.97	0.95	0.96	1.03	1.06
OCDD	0.9585	4.07 %	0.93	0.94	0.92	0.94	1.01	1.01
2,3,7,8-TCDF	0.9501	8.27 %	1.09	0.90	0.89	0.89	0.95	0.99
1,2,3,7,8-PeCDF	0.9603	4.05 %	0.94	0.94	0.92	0.95	1.00	1.01
2,3,4,7,8-PeCDF	1.0148	3.01 %	1.00	0.99	1.00	1.00	1.03	1.07
1,2,3,4,7,8-HxCDF	1.1768	4.35 %	1.23	1.11	1.15	1.14	1.20	1.24
1,2,3,6,7,8-HxCDF	1.0689	3.63 %	1.01	1.07	1.06	1.05	1.12	1.11
2,3,4,6,7,8-HxCDF	1.1136	5.58 %	1.06	1.03	1.12	1.11	1.16	1.20
1,2,3,7,8,9-HxCDF	1.0616	3.91 %	1.05	1.02	1.02	1.06	1.08	1.13
1,2,3,4,6,7,8-HpCDF	1.1276	3.90 %	1.13	1.13	1.06	1.10	1.17	1.18
1,2,3,4,7,8,9-HpCDF	1.2799	3.29 %	1.30	1.24	1.25	1.25	1.31	1.34
OCDF	0.9472	3.80 %	0.95	0.92	0.91	0.92	1.00	0.98
13C-2,3,7,8-TCDD	1.0954	1.91 %	1.11	1.08	1.06	1.10	1.12	1.11
13C-1,2,3,7,8-PeCDD	0.8814	5.11 %	0.89	0.86	0.83	0.86	0.89	0.96
13C-1,2,3,4,7,8-HxCDD	0.6421	10.35 %	0.65	0.60	0.58	0.61	0.65	0.77
13C-1,2,3,6,7,8-HxCDD	0.8555	4.13 %	0.86	0.87	0.82	0.87	0.80	0.90
13C-1,2,3,7,8,9-HxCDD	0.8066	5.57 %	0.84	0.80	0.76	0.80	0.76	0.88
13C-1,2,3,4,6,7,8-HpCDD	0.6539	9.07 %	0.70	0.63	0.59	0.62	0.63	0.75
13C-OCDD	0.5797	10.98 %	0.60	0.52	0.53	0.55	0.59	0.69
13C-2,3,7,8-TCDF	1.0349	1.62 %	1.04	1.00	1.03	1.05	1.04	1.04
13C-1,2,3,7,8-PeCDF	0.8542	4.58 %	0.84	0.82	0.82	0.87	0.86	0.92
13C-2,3,4,7,8-PeCDF	0.8471	3.79 %	0.81	0.84	0.83	0.84	0.85	0.91
13C-1,2,3,4,7,8-HxCDF	0.8317	8.50 %	0.76	0.80	0.79	0.86	0.83	0.96
13C-1,2,3,6,7,8-HxCDF	1.0344	5.35 %	1.00	1.03	1.03	1.03	0.98	1.14
13C-2,3,4,6,7,8-HxCDF	0.9533	6.17 %	0.94	0.94	0.90	0.93	0.93	1.07
13C-1,2,3,7,8,9-HxCDF	0.8277	8.68 %	0.82	0.80	0.77	0.78	0.83	0.96
13C-1,2,3,4,6,7,8-HpCDF	0.7575	6.47 %	0.76	0.73	0.72	0.75	0.73	0.85
13C-1,2,3,4,7,8,9-HpCDF	0.5812	8.97 %	0.62	0.54	0.52	0.55	0.58	0.66
13C-OCDF	0.6890	12.48 %	0.69	0.62	0.62	0.65	0.72	0.85
37Cl-2,3,7,8-TCDD	1.1977	8.83 %	1.40	1.16	1.16	1.11	1.15	1.21
13C-1,2,3,4-TCDD	1.0000	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-1,2,3,4-TCDF	1.0000	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-1,2,3,4,6,9-HxCDF	1.0000	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00

DB CT
 10/10/19 10/10/19

Filename: 191009D1 S: 1 Acquired: 9-OCT-19 16:13:04
 Run: 191009D1 Analyte: Cal: 1613VG7-10-9-19 Results:
 Sample text: ST191009D1-1 1613 CS0 19C2201

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	0.25	1.97e+04	0.80 y	26:32	-	0.84
2	Unk	1,2,3,7,8-PeCDD	1.25	8.06e+04	0.62 y	30:54	-	0.86
3	Unk	1,2,3,4,7,8-HxCDD	1.25	7.34e+04	1.23 y	34:16	-	1.12
4	Unk	1,2,3,6,7,8-HxCDD	1.25	7.23e+04	1.12 y	34:23	-	0.83
5	Unk	1,2,3,7,8,9-HxCDD	1.25	8.01e+04	1.19 y	34:43	-	0.95
6	Unk	1,2,3,4,6,7,8-HpCDD	1.25	6.39e+04	1.06 y	38:05	-	0.90
7	Unk	OCDD	2.50	1.14e+05	0.95 y	41:28	-	0.93
8	Unk	2,3,7,8-TCDF	0.25	3.62e+04	0.85 y	25:49	-	1.09
9	Unk	1,2,3,7,8-PeCDF	1.25	1.26e+05	1.52 y	29:46	-	0.94
10	Unk	2,3,4,7,8-PeCDF	1.25	1.31e+05	1.52 y	30:40	-	1.00
11	Unk	1,2,3,4,7,8-HxCDF	1.25	9.36e+04	1.22 y	33:22	-	1.23
12	Unk	1,2,3,6,7,8-HxCDF	1.25	1.02e+05	1.11 y	33:29	-	1.01
13	Unk	2,3,4,6,7,8-HxCDF	1.25	1.01e+05	1.30 y	34:07	-	1.06
14	Unk	1,2,3,7,8,9-HxCDF	1.25	8.74e+04	1.10 y	35:08	-	1.05
15	Unk	1,2,3,4,6,7,8-HpCDF	1.25	8.63e+04	1.01 y	36:57	-	1.13
16	Unk	1,2,3,4,7,8,9-HpCDF	1.25	8.18e+04	1.14 y	38:40	-	1.30
17	Unk	OCDF	2.50	1.32e+05	0.94 y	41:43	-	0.95
36	IS	13C-2,3,7,8-TCDD	100.00	9.40e+06	0.78 y	26:32	-	1.11
37	IS	13C-1,2,3,7,8-PeCDD	100.00	7.48e+06	0.62 y	30:55	-	0.89
38	IS	13C-1,2,3,4,7,8-HxCDD	100.00	5.24e+06	1.19 y	34:15	-	0.65
39	IS	13C-1,2,3,6,7,8-HxCDD	100.00	6.96e+06	1.32 y	34:22	-	0.86
40	IS	13C-1,2,3,7,8,9-HxCDD	100.00	6.74e+06	1.31 y	34:42	-	0.84
41	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	5.68e+06	1.05 y	38:05	-	0.70
42	IS	13C-OCDD	200.00	9.75e+06	0.88 y	41:28	-	0.60
43	IS	13C-2,3,7,8-TCDF	100.00	1.33e+07	0.79 y	25:49	-	1.04
44	IS	13C-1,2,3,7,8-PeCDF	100.00	1.07e+07	1.58 y	29:46	-	0.84
45	IS	13C-2,3,4,7,8-PeCDF	100.00	1.05e+07	1.58 y	30:39	-	0.81
46	IS	13C-1,2,3,4,7,8-HxCDF	100.00	6.11e+06	0.51 y	33:21	-	0.76
47	IS	13C-1,2,3,6,7,8-HxCDF	100.00	8.04e+06	0.50 y	33:29	-	1.00
48	IS	13C-2,3,4,6,7,8-HxCDF	100.00	7.61e+06	0.50 y	34:07	-	0.94
49	IS	13C-1,2,3,7,8,9-HxCDF	100.00	6.66e+06	0.48 y	35:07	-	0.82
50	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	6.12e+06	0.42 y	36:57	-	0.76
51	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	5.02e+06	0.45 y	38:41	-	0.62
52	IS	13C-OCDF	200.00	1.11e+07	0.90 y	41:43	-	0.69
53	C/Up	37Cl-2,3,7,8-TCDD	0.25	2.97e+04		26:33	-	1.40
54	RS/RT	13C-1,2,3,4-TCDD	100.00	8.45e+06	0.80 y	25:59	-	1.00
55	RS	13C-1,2,3,4-TCDF	100.00	1.28e+07	0.79 y	24:39	-	1.00
56	RS/RT	13C-1,2,3,4,6,9-HxCDF	100.00	8.07e+06	0.52 y	33:47	-	1.00

DB
10/10/14

Filename: 191009D1 S: 2 Acquired: 9-OCT-19 17:00:45
 Run: 191009D1 Analyte: Cal: 1613VG7-10-9-19 Results:
 Sample text: ST191009D1-2 1613 CS1 19C2202

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	0.50	3.54e+04	0.78 y	26:34	-	0.83
2	Unk	1,2,3,7,8-PeCDD	2.50	1.46e+05	0.60 y	30:56	-	0.87
3	Unk	1,2,3,4,7,8-HxCDD	2.50	1.25e+05	1.20 y	34:16	-	1.13
4	Unk	1,2,3,6,7,8-HxCDD	2.50	1.40e+05	1.22 y	34:23	-	0.88
5	Unk	1,2,3,7,8,9-HxCDD	2.50	1.33e+05	1.15 y	34:43	-	0.90
6	Unk	1,2,3,4,6,7,8-HpCDD	2.50	1.13e+05	0.97 y	38:06	-	0.97
7	Unk	OCDD	5.00	1.78e+05	0.90 y	41:28	-	0.94
8	Unk	2,3,7,8-TCDF	0.50	5.25e+04	0.74 y	25:51	-	0.90
9	Unk	1,2,3,7,8-PeCDF	2.50	2.25e+05	1.59 y	29:48	-	0.94
10	Unk	2,3,4,7,8-PeCDF	2.50	2.42e+05	1.50 y	30:40	-	0.99
11	Unk	1,2,3,4,7,8-HxCDF	2.50	1.62e+05	1.16 y	33:22	-	1.11
12	Unk	1,2,3,6,7,8-HxCDF	2.50	2.03e+05	1.20 y	33:30	-	1.07
13	Unk	2,3,4,6,7,8-HxCDF	2.50	1.79e+05	1.30 y	34:07	-	1.03
14	Unk	1,2,3,7,8,9-HxCDF	2.50	1.49e+05	1.24 y	35:08	-	1.02
15	Unk	1,2,3,4,6,7,8-HpCDF	2.50	1.51e+05	0.91 y	36:57	-	1.13
16	Unk	1,2,3,4,7,8,9-HpCDF	2.50	1.23e+05	0.94 y	38:41	-	1.24
17	Unk	OCDF	5.00	2.09e+05	0.91 y	41:43	-	0.92
36	IS	13C-2,3,7,8-TCDD	100.00	8.50e+06	0.78 y	26:34	-	1.08
37	IS	13C-1,2,3,7,8-PeCDD	100.00	6.74e+06	0.63 y	30:56	-	0.86
38	IS	13C-1,2,3,4,7,8-HxCDD	100.00	4.41e+06	1.38 y	34:16	-	0.60
39	IS	13C-1,2,3,6,7,8-HxCDD	100.00	6.35e+06	1.20 y	34:23	-	0.87
40	IS	13C-1,2,3,7,8,9-HxCDD	100.00	5.87e+06	1.26 y	34:42	-	0.80
41	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	4.64e+06	1.05 y	38:05	-	0.63
42	IS	13C-OCDD	200.00	7.58e+06	0.89 y	41:28	-	0.52
43	IS	13C-2,3,7,8-TCDF	100.00	1.17e+07	0.80 y	25:51	-	1.00
44	IS	13C-1,2,3,7,8-PeCDF	100.00	9.60e+06	1.59 y	29:48	-	0.82
45	IS	13C-2,3,4,7,8-PeCDF	100.00	9.80e+06	1.58 y	30:40	-	0.84
46	IS	13C-1,2,3,4,7,8-HxCDF	100.00	5.84e+06	0.52 y	33:21	-	0.80
47	IS	13C-1,2,3,6,7,8-HxCDF	100.00	7.58e+06	0.51 y	33:29	-	1.03
48	IS	13C-2,3,4,6,7,8-HxCDF	100.00	6.92e+06	0.51 y	34:07	-	0.94
49	IS	13C-1,2,3,7,8,9-HxCDF	100.00	5.84e+06	0.49 y	35:08	-	0.80
50	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	5.38e+06	0.43 y	36:57	-	0.73
51	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	3.99e+06	0.43 y	38:41	-	0.54
52	IS	13C-OCDF	200.00	9.05e+06	0.88 y	41:43	-	0.62
53	C/Up	37Cl-2,3,7,8-TCDD	0.50	4.55e+04		26:34	-	1.16
54	RS/RT	13C-1,2,3,4-TCDD	100.00	7.86e+06	0.77 y	26:01	-	1.00
55	RS	13C-1,2,3,4-TCDF	100.00	1.17e+07	0.83 y	24:41	-	1.00
56	RS/RT	13C-1,2,3,4,6,9-HxCDF	100.00	7.33e+06	0.52 y	33:47	-	1.00

DB
10/10/19

Filename: 191009D1 S: 3 Acquired: 9-OCT-19 17:48:27
 Run: 191009D1 Analyte: Cal: 1613VG7-10-9-19 Results:
 Sample text: ST191009D1-3 1613 CS2 19C2203

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	2.00	1.35e+05	0.74 y	26:33	-	0.87
2	Unk	1,2,3,7,8-PeCDD	10.00	5.33e+05	0.64 y	30:56	-	0.88
3	Unk	1,2,3,4,7,8-HxCDD	10.00	3.94e+05	1.22 y	34:16	-	1.03
4	Unk	1,2,3,6,7,8-HxCDD	10.00	5.50e+05	1.25 y	34:23	-	1.01
5	Unk	1,2,3,7,8,9-HxCDD	10.00	4.71e+05	1.36 y	34:43	-	0.93
6	Unk	1,2,3,4,6,7,8-HpCDD	10.00	3.70e+05	1.02 y	38:06	-	0.95
7	Unk	OCDD	20.00	6.41e+05	0.90 y	41:29	-	0.92
8	Unk	2,3,7,8-TCDF	2.00	1.90e+05	0.83 y	25:49	-	0.89
9	Unk	1,2,3,7,8-PeCDF	10.00	7.88e+05	1.58 y	29:47	-	0.92
10	Unk	2,3,4,7,8-PeCDF	10.00	8.71e+05	1.56 y	30:40	-	1.00
11	Unk	1,2,3,4,7,8-HxCDF	10.00	6.02e+05	1.14 y	33:22	-	1.15
12	Unk	1,2,3,6,7,8-HxCDF	10.00	7.20e+05	1.27 y	33:30	-	1.06
13	Unk	2,3,4,6,7,8-HxCDF	10.00	6.66e+05	1.26 y	34:08	-	1.12
14	Unk	1,2,3,7,8,9-HxCDF	10.00	5.16e+05	1.16 y	35:08	-	1.02
15	Unk	1,2,3,4,6,7,8-HpCDF	10.00	5.02e+05	1.05 y	36:57	-	1.06
16	Unk	1,2,3,4,7,8,9-HpCDF	10.00	4.31e+05	1.08 y	38:41	-	1.25
17	Unk	OCDF	20.00	7.38e+05	0.91 y	41:44	-	0.91
36	IS	13C-2,3,7,8-TCDD	100.00	7.73e+06	0.78 y	26:33	-	1.06
37	IS	13C-1,2,3,7,8-PeCDD	100.00	6.03e+06	0.62 y	30:55	-	0.83
38	IS	13C-1,2,3,4,7,8-HxCDD	100.00	3.81e+06	1.24 y	34:15	-	0.58
39	IS	13C-1,2,3,6,7,8-HxCDD	100.00	5.44e+06	1.28 y	34:22	-	0.82
40	IS	13C-1,2,3,7,8,9-HxCDD	100.00	5.03e+06	1.21 y	34:42	-	0.76
41	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	3.89e+06	1.09 y	38:05	-	0.59
42	IS	13C-OCDD	200.00	6.97e+06	0.90 y	41:28	-	0.53
43	IS	13C-2,3,7,8-TCDF	100.00	1.08e+07	0.82 y	25:49	-	1.03
44	IS	13C-1,2,3,7,8-PeCDF	100.00	8.55e+06	1.59 y	29:47	-	0.82
45	IS	13C-2,3,4,7,8-PeCDF	100.00	8.70e+06	1.59 y	30:40	-	0.83
46	IS	13C-1,2,3,4,7,8-HxCDF	100.00	5.22e+06	0.49 y	33:21	-	0.79
47	IS	13C-1,2,3,6,7,8-HxCDF	100.00	6.80e+06	0.51 y	33:29	-	1.03
48	IS	13C-2,3,4,6,7,8-HxCDF	100.00	5.93e+06	0.52 y	34:07	-	0.90
49	IS	13C-1,2,3,7,8,9-HxCDF	100.00	5.05e+06	0.51 y	35:08	-	0.77
50	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	4.73e+06	0.44 y	36:57	-	0.72
51	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	3.46e+06	0.45 y	38:41	-	0.52
52	IS	13C-OCDF	200.00	8.15e+06	0.92 y	41:44	-	0.62
53	C/Up	37Cl-2,3,7,8-TCDD	2.00	1.69e+05		26:33	-	1.16
54	RS/RT	13C-1,2,3,4-TCDD	100.00	7.29e+06	0.77 y	25:59	-	1.00
55	RS	13C-1,2,3,4-TCDF	100.00	1.04e+07	0.82 y	24:39	-	1.00
56	RS/RT	13C-1,2,3,4,6,9-HxCDF	100.00	6.60e+06	0.52 y	33:47	-	1.00

DB
10/10/19

Filename: 191009D1 S: 4 Acquired: 9-OCT-19 18:36:09
 Run: 191009D1 Analyte: Cal: 1613VG7-10-9-19 Results:
 Sample text: ST191009D1-4 1613 CS3 19C2204

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	10.00	8.37e+05	0.80 y	26:35	-	0.99
2	Unk	1,2,3,7,8-PeCDD	50.00	2.94e+06	0.61 y	30:56	-	0.88
3	Unk	1,2,3,4,7,8-HxCDD	50.00	2.38e+06	1.21 y	34:16	-	1.08
4	Unk	1,2,3,6,7,8-HxCDD	50.00	2.90e+06	1.19 y	34:23	-	0.92
5	Unk	1,2,3,7,8,9-HxCDD	50.00	2.74e+06	1.24 y	34:42	-	0.95
6	Unk	1,2,3,4,6,7,8-HpCDD	50.00	2.15e+06	1.03 y	38:05	-	0.96
7	Unk	OCDD	100.00	3.73e+06	0.91 y	41:28	-	0.94
8	Unk	2,3,7,8-TCDF	10.00	1.05e+06	0.80 y	25:51	-	0.89
9	Unk	1,2,3,7,8-PeCDF	50.00	4.65e+06	1.59 y	29:47	-	0.95
10	Unk	2,3,4,7,8-PeCDF	50.00	4.70e+06	1.68 y	30:40	-	1.00
11	Unk	1,2,3,4,7,8-HxCDF	50.00	3.52e+06	1.24 y	33:21	-	1.14
12	Unk	1,2,3,6,7,8-HxCDF	50.00	3.92e+06	1.25 y	33:29	-	1.05
13	Unk	2,3,4,6,7,8-HxCDF	50.00	3.74e+06	1.22 y	34:07	-	1.11
14	Unk	1,2,3,7,8,9-HxCDF	50.00	3.00e+06	1.19 y	35:07	-	1.06
15	Unk	1,2,3,4,6,7,8-HpCDF	50.00	2.97e+06	1.04 y	36:57	-	1.10
16	Unk	1,2,3,4,7,8,9-HpCDF	50.00	2.49e+06	1.07 y	38:41	-	1.25
17	Unk	OCDF	100.00	4.33e+06	0.91 y	41:43	-	0.92
36	IS	13C-2,3,7,8-TCDD	100.00	8.46e+06	0.74 y	26:33	-	1.10
37	IS	13C-1,2,3,7,8-PeCDD	100.00	6.66e+06	0.62 y	30:55	-	0.86
38	IS	13C-1,2,3,4,7,8-HxCDD	100.00	4.42e+06	1.25 y	34:15	-	0.61
39	IS	13C-1,2,3,6,7,8-HxCDD	100.00	6.30e+06	1.28 y	34:22	-	0.87
40	IS	13C-1,2,3,7,8,9-HxCDD	100.00	5.76e+06	1.27 y	34:41	-	0.80
41	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	4.47e+06	1.05 y	38:05	-	0.62
42	IS	13C-OCDD	200.00	7.90e+06	0.94 y	41:27	-	0.55
43	IS	13C-2,3,7,8-TCDF	100.00	1.18e+07	0.79 y	25:50	-	1.05
44	IS	13C-1,2,3,7,8-PeCDF	100.00	9.79e+06	1.62 y	29:47	-	0.87
45	IS	13C-2,3,4,7,8-PeCDF	100.00	9.43e+06	1.61 y	30:39	-	0.84
46	IS	13C-1,2,3,4,7,8-HxCDF	100.00	6.19e+06	0.50 y	33:21	-	0.86
47	IS	13C-1,2,3,6,7,8-HxCDF	100.00	7.47e+06	0.51 y	33:29	-	1.03
48	IS	13C-2,3,4,6,7,8-HxCDF	100.00	6.75e+06	0.49 y	34:06	-	0.93
49	IS	13C-1,2,3,7,8,9-HxCDF	100.00	5.64e+06	0.49 y	35:07	-	0.78
50	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	5.40e+06	0.43 y	36:55	-	0.75
51	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	3.99e+06	0.44 y	38:40	-	0.55
52	IS	13C-OCDF	200.00	9.37e+06	0.89 y	41:43	-	0.65
53	C/Up	37Cl-2,3,7,8-TCDD	10.00	8.56e+05		26:35	-	1.11
54	RS/RT	13C-1,2,3,4-TCDD	100.00	7.70e+06	0.75 y	26:00	-	1.00
55	RS	13C-1,2,3,4-TCDF	100.00	1.13e+07	0.82 y	24:41	-	1.00
56	RS/RT	13C-1,2,3,4,6,9-HxCDF	100.00	7.23e+06	0.51 y	33:47	-	1.00

DB

10/10/19

Filename: 191009D1 S: 5 Acquired: 9-OCT-19 19:23:46
Run: 191009D1 Analyte: Cal: 1613VG7-10-9-19 Results:
Sample text: ST191009D1-5 1613 CS4 19C2205

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	40.00	3.53e+06	0.81 y	26:35	-	0.92
2	Unk	1,2,3,7,8-PeCDD	200.00	1.48e+07	0.63 y	30:55	-	0.96
3	Unk	1,2,3,4,7,8-HxCDD	200.00	1.19e+07	1.19 y	34:15	-	1.09
4	Unk	1,2,3,6,7,8-HxCDD	200.00	1.34e+07	1.20 y	34:22	-	0.98
5	Unk	1,2,3,7,8,9-HxCDD	200.00	1.30e+07	1.18 y	34:41	-	1.00
6	Unk	1,2,3,4,6,7,8-HpCDD	200.00	1.10e+07	1.03 y	38:04	-	1.03
7	Unk	OCDD	400.00	2.03e+07	0.91 y	41:26	-	1.01
8	Unk	2,3,7,8-TCDF	40.00	5.17e+06	0.77 y	25:52	-	0.95
9	Unk	1,2,3,7,8-PeCDF	200.00	2.24e+07	1.58 y	29:47	-	1.00
10	Unk	2,3,4,7,8-PeCDF	200.00	2.29e+07	1.55 y	30:40	-	1.03
11	Unk	1,2,3,4,7,8-HxCDF	200.00	1.69e+07	1.21 y	33:21	-	1.20
12	Unk	1,2,3,6,7,8-HxCDF	200.00	1.85e+07	1.21 y	33:29	-	1.12
13	Unk	2,3,4,6,7,8-HxCDF	200.00	1.83e+07	1.21 y	34:06	-	1.16
14	Unk	1,2,3,7,8,9-HxCDF	200.00	1.53e+07	1.22 y	35:06	-	1.08
15	Unk	1,2,3,4,6,7,8-HpCDF	200.00	1.46e+07	1.04 y	36:56	-	1.17
16	Unk	1,2,3,4,7,8,9-HpCDF	200.00	1.30e+07	1.05 y	38:39	-	1.31
17	Unk	OCDF	400.00	2.42e+07	0.91 y	41:41	-	1.00
36	IS	13C-2,3,7,8-TCDD	100.00	9.63e+06	0.75 y	26:34	-	1.12
37	IS	13C-1,2,3,7,8-PeCDD	100.00	7.72e+06	0.63 y	30:54	-	0.89
38	IS	13C-1,2,3,4,7,8-HxCDD	100.00	5.48e+06	1.31 y	34:14	-	0.65
39	IS	13C-1,2,3,6,7,8-HxCDD	100.00	6.83e+06	1.22 y	34:21	-	0.80
40	IS	13C-1,2,3,7,8,9-HxCDD	100.00	6.48e+06	1.26 y	34:40	-	0.76
41	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	5.36e+06	1.08 y	38:03	-	0.63
42	IS	13C-OCDD	200.00	1.01e+07	0.91 y	41:25	-	0.59
43	IS	13C-2,3,7,8-TCDF	100.00	1.36e+07	0.80 y	25:51	-	1.04
44	IS	13C-1,2,3,7,8-PeCDF	100.00	1.12e+07	1.57 y	29:46	-	0.86
45	IS	13C-2,3,4,7,8-PeCDF	100.00	1.11e+07	1.52 y	30:39	-	0.85
46	IS	13C-1,2,3,4,7,8-HxCDF	100.00	7.05e+06	0.50 y	33:20	-	0.83
47	IS	13C-1,2,3,6,7,8-HxCDF	100.00	8.28e+06	0.49 y	33:28	-	0.98
48	IS	13C-2,3,4,6,7,8-HxCDF	100.00	7.90e+06	0.51 y	34:05	-	0.93
49	IS	13C-1,2,3,7,8,9-HxCDF	100.00	7.08e+06	0.51 y	35:06	-	0.83
50	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	6.23e+06	0.46 y	36:55	-	0.73
51	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	4.95e+06	0.44 y	38:38	-	0.58
52	IS	13C-OCDF	200.00	1.22e+07	0.90 y	41:40	-	0.72
53	C/Up	37Cl-2,3,7,8-TCDD	40.00	3.96e+06		26:35	-	1.15
54	RS/RT	13C-1,2,3,4-TCDD	100.00	8.64e+06	0.78 y	26:00	-	1.00
55	RS	13C-1,2,3,4-TCDF	100.00	1.30e+07	0.83 y	24:41	-	1.00
56	RS/RT	13C-1,2,3,4,6,9-HxCDF	100.00	8.48e+06	0.51 y	33:46	-	1.00

DB
10/10/19

Filename: 191009D1 S: 6 Acquired: 9-OCT-19 20:11:17
 Run: 191009D1 Analyte: Cal: 1613VG7-10-9-19 Results:
 Sample text: ST191009D1-6 1613 CS5 19C2206

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	300.00	2.80e+07	0.81 y	26:35	-	0.98
2	Unk	1,2,3,7,8-PeCDD	1500.00	1.19e+08	0.62 y	30:55	-	0.96
3	Unk	1,2,3,4,7,8-HxCDD	1500.00	1.04e+08	1.22 y	34:15	-	1.15
4	Unk	1,2,3,6,7,8-HxCDD	1500.00	1.07e+08	1.21 y	34:22	-	1.00
5	Unk	1,2,3,7,8,9-HxCDD	1500.00	1.06e+08	1.23 y	34:41	-	1.03
6	Unk	1,2,3,4,6,7,8-HpCDD	1500.00	9.32e+07	1.05 y	38:03	-	1.06
7	Unk	OCDD	3000.00	1.64e+08	0.92 y	41:25	-	1.01
8	Unk	2,3,7,8-TCDF	300.00	3.95e+07	0.79 y	25:52	-	0.99
9	Unk	1,2,3,7,8-PeCDF	1500.00	1.79e+08	1.58 y	29:47	-	1.01
10	Unk	2,3,4,7,8-PeCDF	1500.00	1.86e+08	1.57 y	30:39	-	1.07
11	Unk	1,2,3,4,7,8-HxCDF	1500.00	1.40e+08	1.20 y	33:21	-	1.24
12	Unk	1,2,3,6,7,8-HxCDF	1500.00	1.48e+08	1.21 y	33:29	-	1.11
13	Unk	2,3,4,6,7,8-HxCDF	1500.00	1.51e+08	1.22 y	34:06	-	1.20
14	Unk	1,2,3,7,8,9-HxCDF	1500.00	1.28e+08	1.25 y	35:06	-	1.13
15	Unk	1,2,3,4,6,7,8-HpCDF	1500.00	1.18e+08	1.03 y	36:55	-	1.18
16	Unk	1,2,3,4,7,8,9-HpCDF	1500.00	1.04e+08	1.05 y	38:38	-	1.34
17	Unk	OCDF	3000.00	1.96e+08	0.91 y	41:40	-	0.98
36	IS	13C-2,3,7,8-TCDD	100.00	9.53e+06	0.73 y	26:33	-	1.11
37	IS	13C-1,2,3,7,8-PeCDD	100.00	8.28e+06	0.64 y	30:54	-	0.96
38	IS	13C-1,2,3,4,7,8-HxCDD	100.00	6.01e+06	1.21 y	34:14	-	0.77
39	IS	13C-1,2,3,6,7,8-HxCDD	100.00	7.08e+06	1.32 y	34:21	-	0.90
40	IS	13C-1,2,3,7,8,9-HxCDD	100.00	6.90e+06	1.26 y	34:39	-	0.88
41	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	5.86e+06	1.08 y	38:03	-	0.75
42	IS	13C-OCDD	200.00	1.08e+07	0.92 y	41:25	-	0.69
43	IS	13C-2,3,7,8-TCDF	100.00	1.33e+07	0.80 y	25:51	-	1.04
44	IS	13C-1,2,3,7,8-PeCDF	100.00	1.18e+07	1.59 y	29:46	-	0.92
45	IS	13C-2,3,4,7,8-PeCDF	100.00	1.16e+07	1.60 y	30:38	-	0.91
46	IS	13C-1,2,3,4,7,8-HxCDF	100.00	7.52e+06	0.51 y	33:20	-	0.96
47	IS	13C-1,2,3,6,7,8-HxCDF	100.00	8.92e+06	0.50 y	33:28	-	1.14
48	IS	13C-2,3,4,6,7,8-HxCDF	100.00	8.38e+06	0.51 y	34:05	-	1.07
49	IS	13C-1,2,3,7,8,9-HxCDF	100.00	7.57e+06	0.52 y	35:05	-	0.96
50	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	6.70e+06	0.43 y	36:54	-	0.85
51	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	5.19e+06	0.43 y	38:37	-	0.66
52	IS	13C-OCDF	200.00	1.33e+07	0.89 y	41:39	-	0.85
53	C/Up	37Cl-2,3,7,8-TCDD	199.98	2.09e+07		26:35	-	1.21
54	RS/RT	13C-1,2,3,4-TCDD	100.00	8.62e+06	0.76 y	26:01	-	1.00
55	RS	13C-1,2,3,4-TCDF	100.00	1.27e+07	0.84 y	24:41	-	1.00
56	RS/RT	13C-1,2,3,4,6,9-HxCDF	100.00	7.85e+06	0.49 y	33:45	-	1.00

DB

10/10/19

Run: 191009D1 Analyte: Cal: 1613VG7-10 9-19 Inst. ID. VG-7

Data filename: 191009D1

Samp# 1	Samp# 2	Samp# 3	Samp# 4	Samp# 5	Samp# 6
0.25	0.50	2.0	10	40	300

Name	Mean RRF	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6
Total Tetra-Dioxins	0.9053	7.55 %	0.84	0.83	0.87	0.99	0.92	0.98
TCDD EMPC	0.9053	7.55 %	0.84	0.83	0.87	0.99	0.92	0.98
Total Penta-Dioxins	0.9027	4.95 %	0.86	0.87	0.88	0.88	0.96	0.96
PeCDD EMPC	0.9027	4.95 %	0.86	0.87	0.88	0.88	0.96	0.96
Total Hexa-Dioxins	0.9918	4.02 %	0.95	0.96	0.99	0.97	1.02	1.06
HxCDD EMPC	0.9918	4.02 %	0.95	0.96	0.99	0.97	1.02	1.06
Total Hepta-Dioxins	0.9794	5.84 %	0.90	0.97	0.95	0.96	1.03	1.06
HpCDD EMPC	0.9794	5.84 %	0.90	0.97	0.95	0.96	1.03	1.06
Total Tetra-Furans	0.9501	8.27 %	1.09	0.90	0.89	0.89	0.95	0.99
TCDF EMPC	0.9501	8.27 %	1.09	0.90	0.89	0.89	0.95	0.99
1st Func. Penta-Furans	0.9875	3.40 %	0.97	0.96	0.96	0.97	1.02	1.04
1st Func. PeCDF EMPC	0.9875	3.40 %	0.97	0.96	0.96	0.97	1.02	1.04
Total Penta-Furans	0.9875	3.40 %	0.97	0.96	0.96	0.97	1.02	1.04
PeCDF EMPC	0.9875	3.40 %	0.97	0.96	0.96	0.97	1.02	1.04
Total Hexa-Furans	1.1033	3.70 %	1.08	1.06	1.09	1.09	1.14	1.17
HxCDF EMPC	1.1033	3.70 %	1.08	1.06	1.09	1.09	1.14	1.17
Total Hepta-Furans	1.1937	3.56 %	1.21	1.17	1.14	1.16	1.23	1.25
HpCDF EMPC	1.1937	3.56 %	1.21	1.17	1.14	1.16	1.23	1.25

DB
10/10/19

Data filename: 191009D1

Name	RRT Limits		Samp# 1	Samp# 2	Samp# 3	Samp# 4	Samp# 5	Samp# 6
	Lower	Upper	0.25	0.50	2.0	10	40	300
2,3,7,8-TCDD	0.999	-1.002	1.000	1.000	1.000	1.001	1.001	1.001
1,2,3,7,8-PeCDD	0.999	-1.002	0.999	1.000	1.001	1.001	1.001	1.001
1,2,3,4,7,8-HxCDD	0.999	-1.001	1.000	1.000	1.001	1.000	1.000	1.000
1,2,3,6,7,8-HxCDD	0.998	-1.004	1.000	1.000	1.000	1.001	1.001	1.000
1,2,3,7,8,9-HxCDD	0.998	-1.004	1.001	1.000	1.000	1.000	1.001	1.001
1,2,3,4,6,7,8-HpCDD	0.999	-1.001	1.000	1.000	1.000	1.000	1.000	1.000
OCDD	0.999	-1.001	1.000	1.000	1.000	1.000	1.000	1.000
2,3,7,8-TCDF	0.999	-1.003	1.000	1.000	1.000	1.001	1.001	1.001
1,2,3,7,8-PeCDF	0.999	-1.002	1.000	1.000	1.000	1.000	1.000	1.001
2,3,4,7,8-PeCDF	0.999	-1.002	1.000	1.000	1.000	1.001	1.001	1.001
1,2,3,4,7,8-HxCDF	0.999	-1.001	1.000	1.000	1.000	1.000	1.000	1.000
1,2,3,6,7,8-HxCDF	0.997	-1.005	1.000	1.000	1.001	1.000	1.000	1.000
2,3,4,6,7,8-HxCDF	0.999	-1.001	1.000	1.000	1.000	1.001	1.001	1.000
1,2,3,7,8,9-HxCDF	0.999	-1.001	1.000	1.000	1.000	1.000	1.000	1.000
1,2,3,4,6,7,8-HpCDF	0.999	-1.001	1.000	1.000	1.000	1.001	1.000	1.000
1,2,3,4,7,8,9-HpCDF	0.999	-1.001	1.000	1.000	1.000	1.000	1.000	1.000
OCDF	0.999	-1.001	1.000	1.000	1.000	1.000	1.000	1.000
13C-2,3,7,8-TCDD	0.976	-1.043	1.022	1.022	1.022	1.021	1.021	1.021
13C-1,2,3,7,8-PeCDD	1.000	-1.567	1.190	1.189	1.190	1.189	1.188	1.188
13C-1,2,3,4,7,8-HxCDD	1.002	-1.026	1.014	1.014	1.014	1.014	1.014	1.014
13C-1,2,3,6,7,8-HxCDD	1.007	-1.029	1.017	1.018	1.018	1.017	1.017	1.018
13C-1,2,3,7,8,9-HxCDD	1.014	-1.038	1.027	1.027	1.027	1.027	1.027	1.027
13C-1,2,3,4,6,7,8-HpCDD	1.117	-1.141	1.127	1.127	1.128	1.127	1.127	1.127
13C-OCDD	1.085	-1.365	1.227	1.227	1.228	1.227	1.227	1.227
13C-2,3,7,8-TCDF	0.923	-1.103	0.994	0.994	0.994	0.994	0.994	0.994
13C-1,2,3,7,8-PeCDF	1.000	-1.425	1.146	1.146	1.146	1.145	1.145	1.144
13C-2,3,4,7,8-PeCDF	1.011	-1.526	1.180	1.179	1.180	1.179	1.178	1.178
13C-1,2,3,4,7,8-HxCDF	0.975	-1.001	0.987	0.987	0.987	0.987	0.987	0.987
13C-1,2,3,6,7,8-HxCDF	0.979	-1.005	0.991	0.991	0.991	0.991	0.991	0.991
13C-2,3,4,6,7,8-HxCDF	1.001	-1.020	1.010	1.010	1.010	1.009	1.009	1.010
13C-1,2,3,7,8,9-HxCDF	1.002	-1.072	1.040	1.040	1.040	1.039	1.039	1.039
13C-1,2,3,4,6,7,8-HpCDF	1.069	-1.111	1.093	1.093	1.094	1.093	1.093	1.093
13C-1,2,3,4,7,8,9-HpCDF	1.098	-1.192	1.145	1.145	1.145	1.145	1.144	1.144
13C-OCDF	1.091	-1.371	1.235	1.234	1.235	1.235	1.234	1.234
37Cl-2,3,7,8-TCDD	0.989	-1.052	1.022	1.021	1.022	1.022	1.022	1.022
13C-1,2,3,4-TCDD	0.000	-0.000	*	*	*	*	*	*
13C-1,2,3,4-TCDF	0.000	-0.000	*	*	*	*	*	*
13C-1,2,3,4,6,9-HxCDF	0.000	-0.000	*	*	*	*	*	*

D)B
 10/10/19

FORM 5

PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Instrument ID: VG-7 Initial Calibration Date: 10-9-19

RT Window Data Filename: 191009D1 S#4 Analysis Date: 9-OCT-19 Time: 18:36:09

ZB-5MS IS Data Filename: 191009D1 S#4 Analysis Date: 9-OCT-19 Time: 18:36:09

DB_225 IS Data Filename: Analysis Date: Time:

ZB-5MS RT WINDOW DEFINING STANDARDS RESULTS

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	23:24	1,3,6,8-TCDF (F)	21:25
1,2,8,9-TCDD (L)	27:24	1,2,8,9-TCDF (L)	27:33
1,2,4,7,9-PeCDD (F)	28:55	1,3,4,6,8-PeCDF (F)	27:28
1,2,3,8,9-PeCDD (L)	31:17	1,2,3,8,9-PeCDF (L)	31:32
1,2,4,6,7,9-HxCDD (F)	32:41	1,2,3,4,6,8-HxCDF (F)	32:08
1,2,3,7,8,9-HxCDD (L)	34:42	1,2,3,7,8,9-HxCDF (L)	35:07
1,2,3,4,6,7,9-HpCDD (F)	37:16	1,2,3,4,6,7,8-HpCDF (F)	36:57
1,2,3,4,6,7,8-HpCDD (L)	38:05	1,2,3,4,7,8,9-HpCDF (L)	38:41

(F) = First eluting isomer (ZB-5MS); (L) = Last eluting isomer (ZB-5MS).

=====

ISOMER SPECIFICITY (IS) TEST STANDARD RESULTS

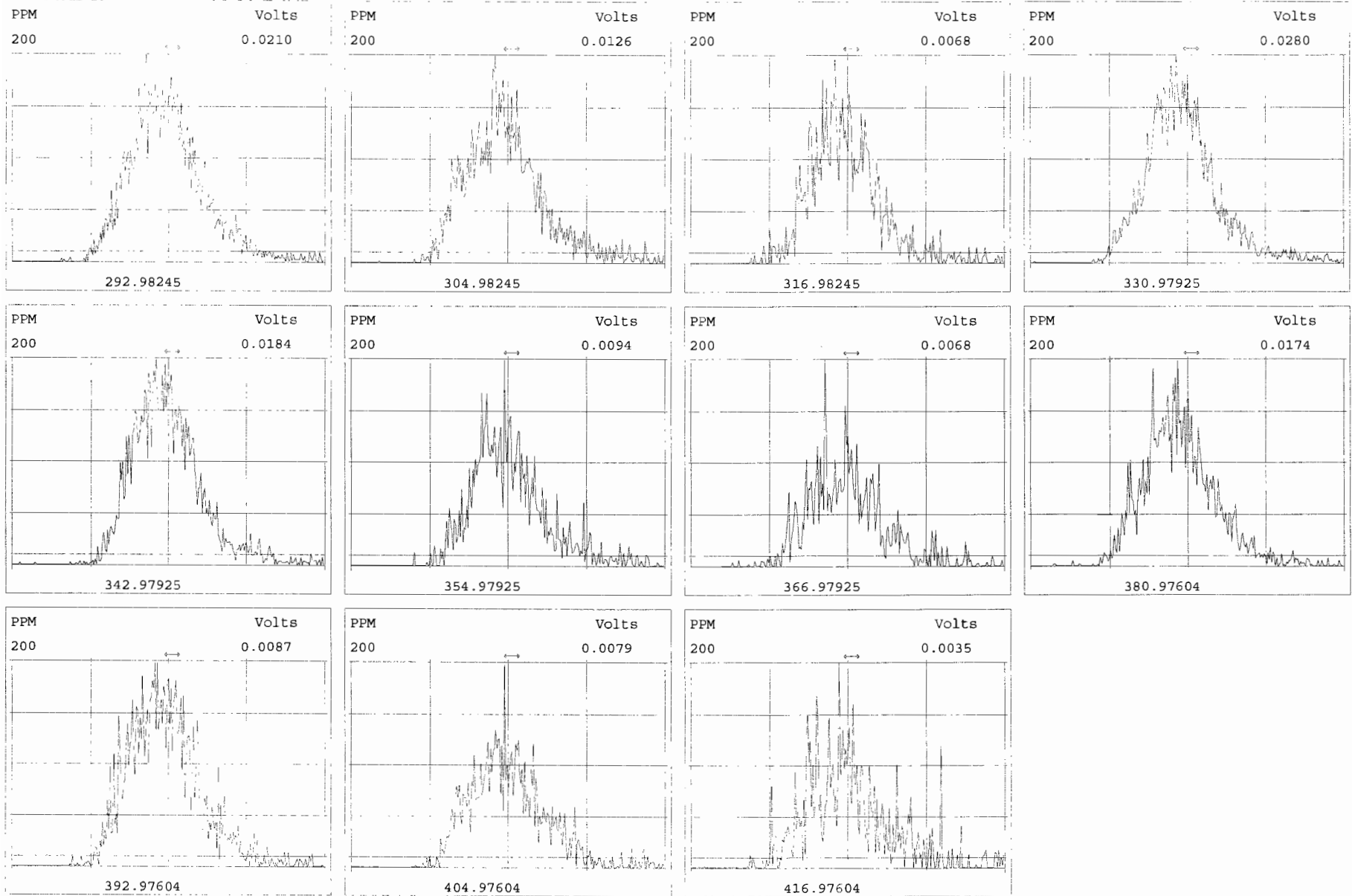
% VALLEY HEIGHT
BETWEEN
COMPARED PEAKS (1)

<25%

(1) To meet contract requirements, %Valley Height Between Compared Peaks shall not exceed 25% (section 15.4.2.2, Method 1613).

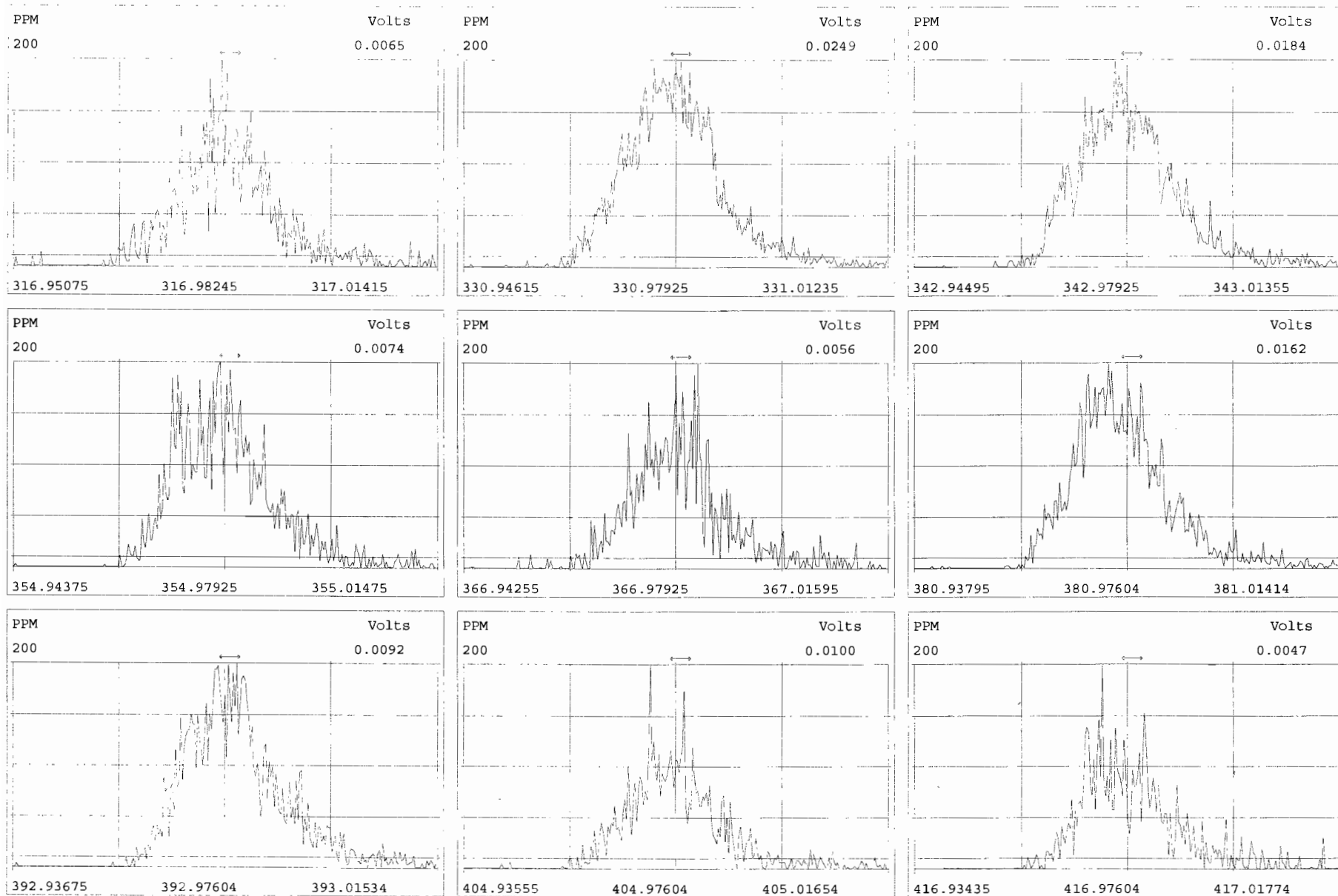
Analyst: DB

Date: 10/10/19



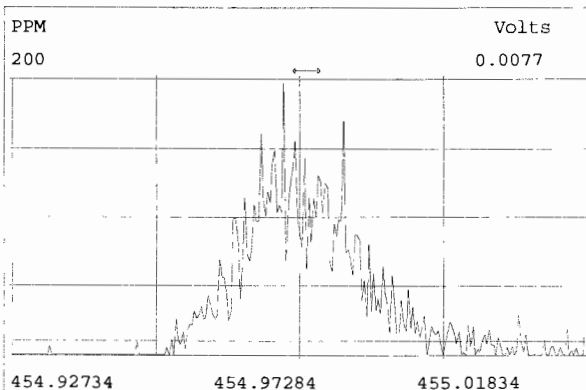
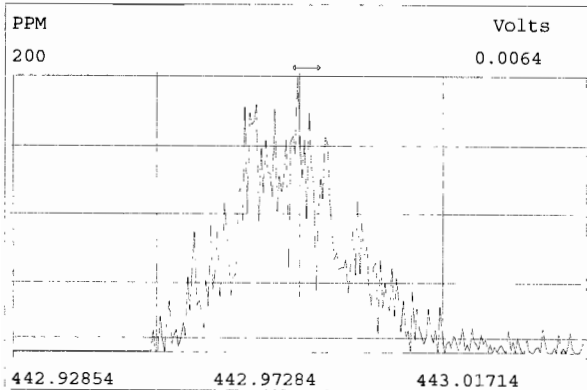
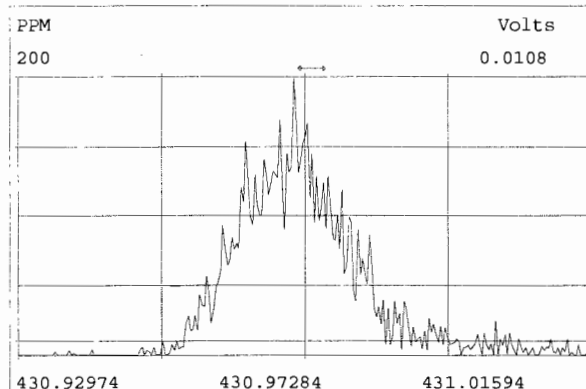
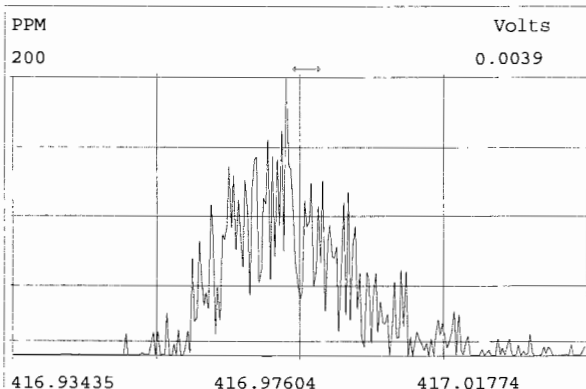
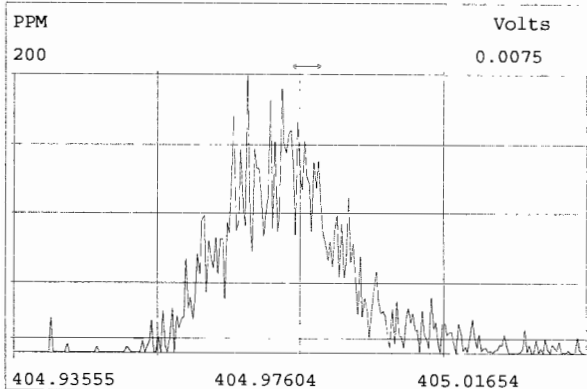
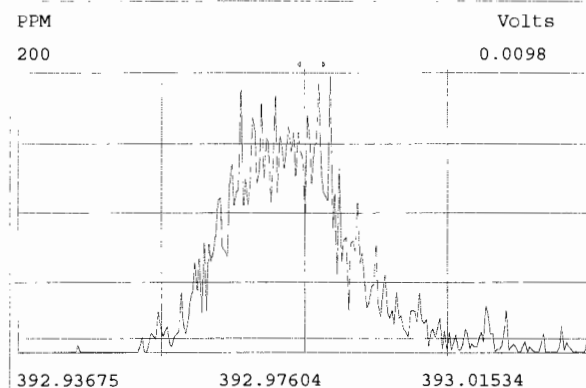
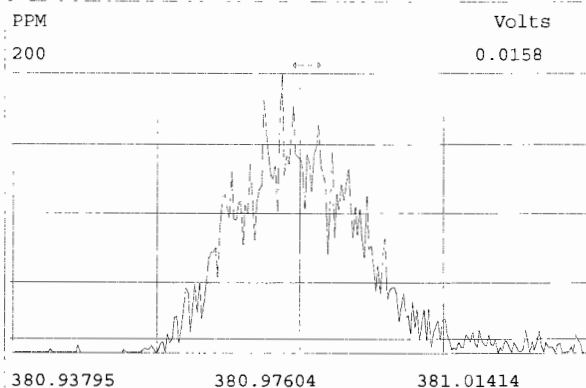
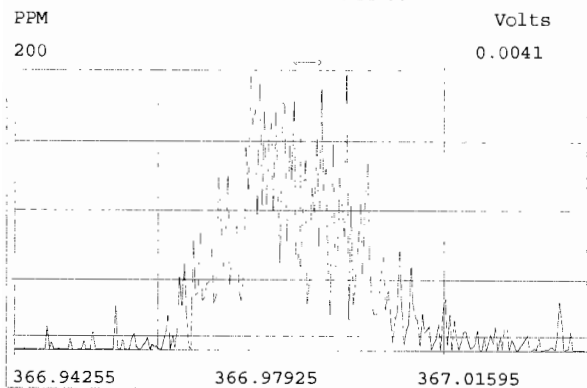
Peak Locate Examination: 9-OCT-2019:16:10 File:191009D1

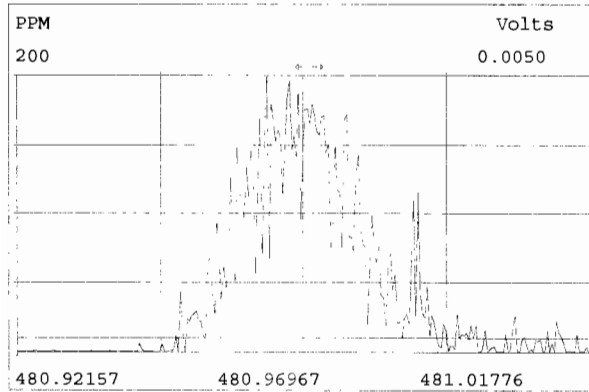
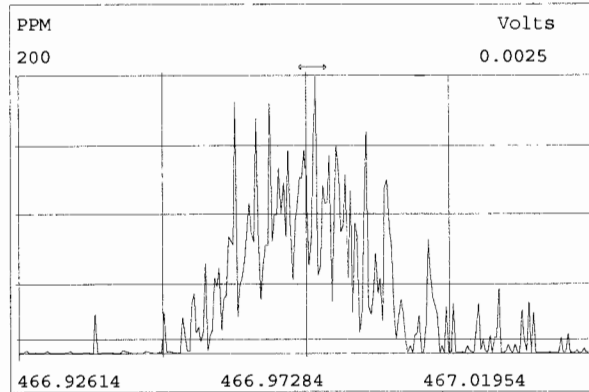
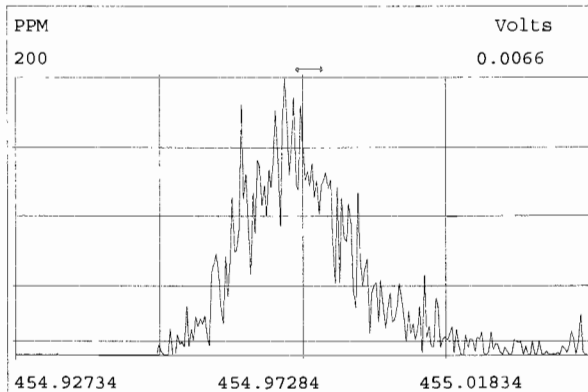
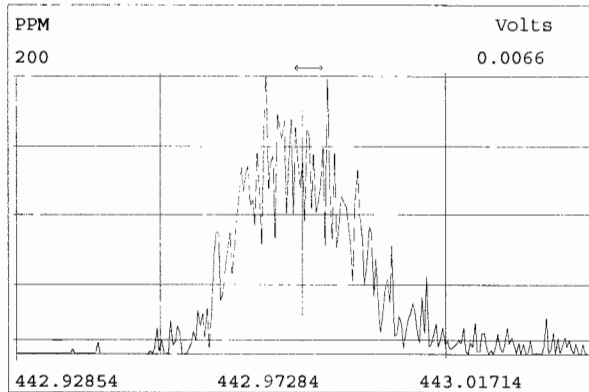
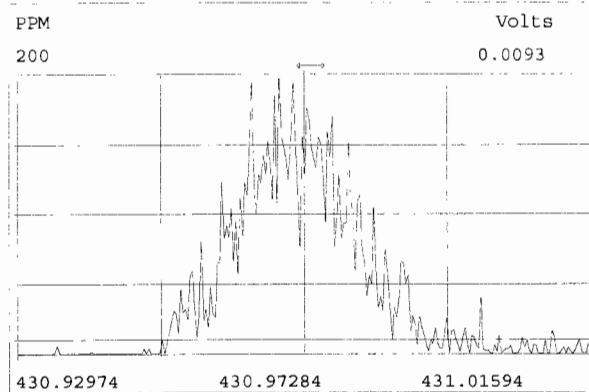
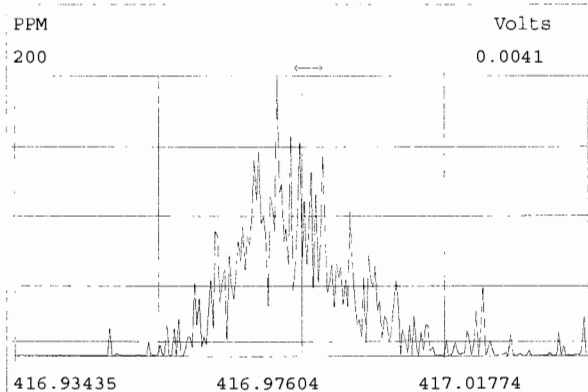
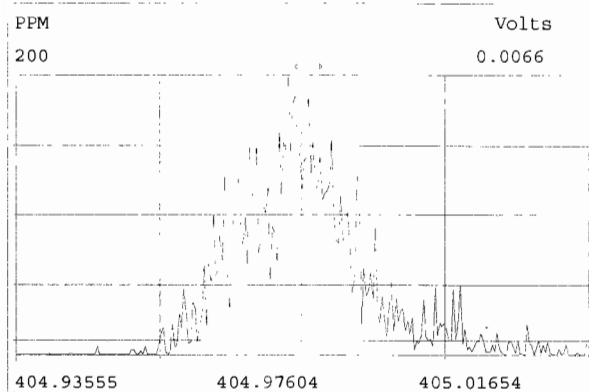
Experiment:OCDD_DB5 Function:2 Reference:PFK



Peak Locate Examination: 9-OCT-2019:16:11 File:191009D1

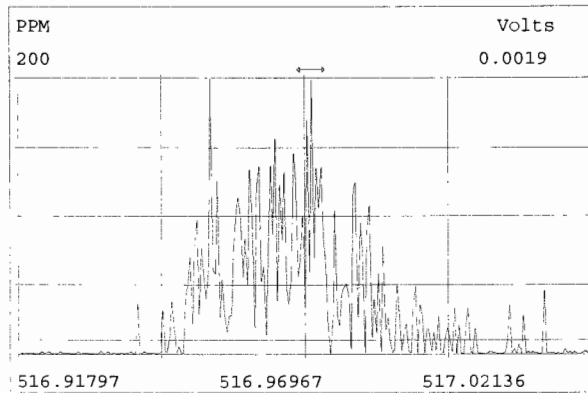
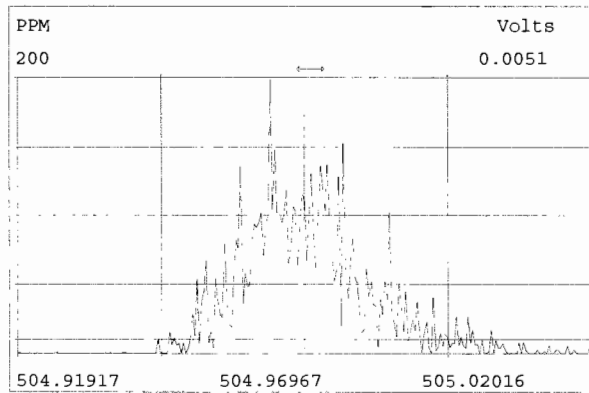
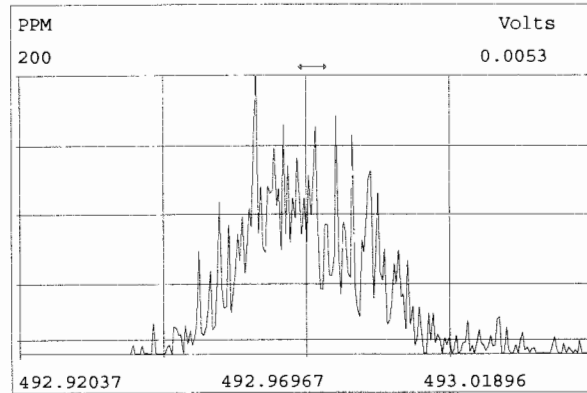
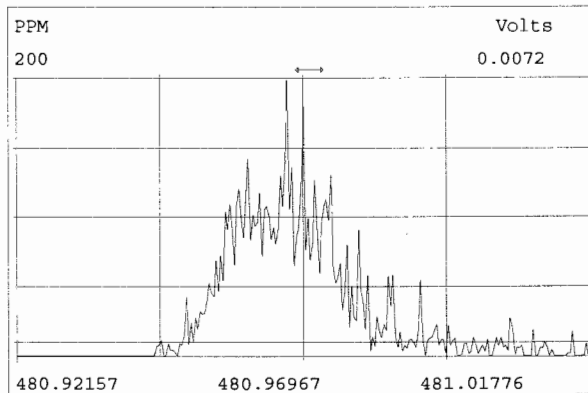
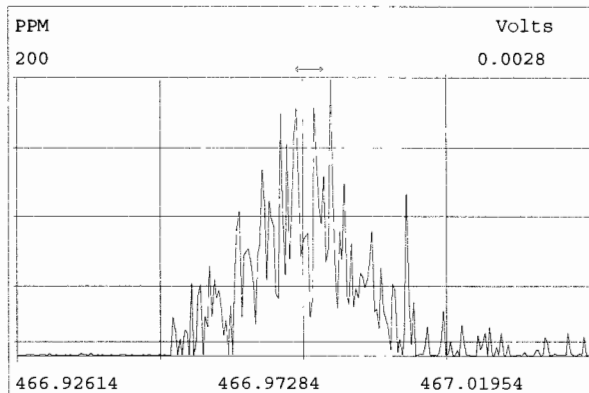
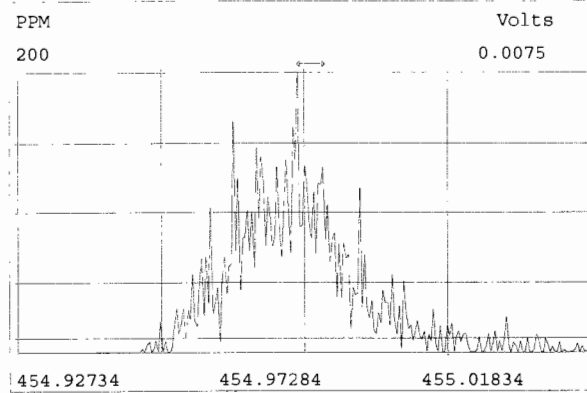
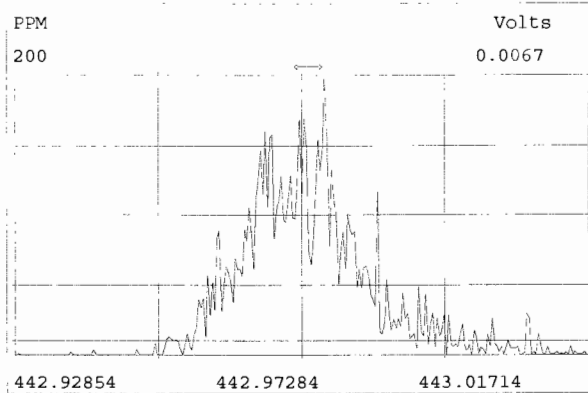
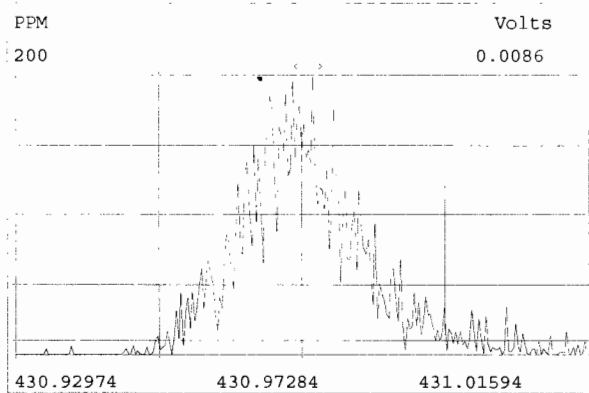
Experiment:OCDD_DB5 Function:3 Reference:PFK





Peak Locate Examination: 9-OCT-2019:16:12 File:191009D1

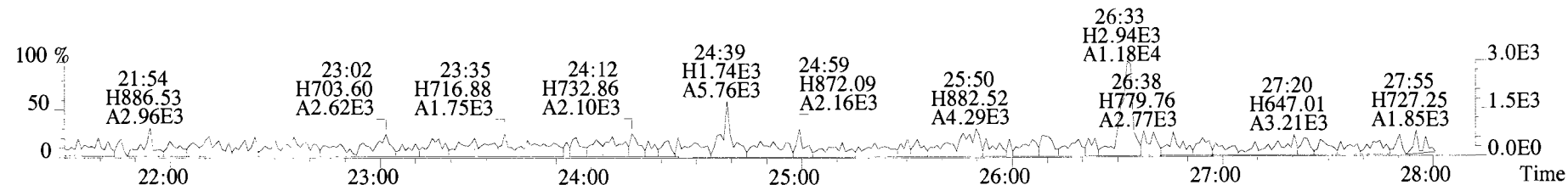
Experiment:OCDD_DB5 Function:5 Reference:PFK



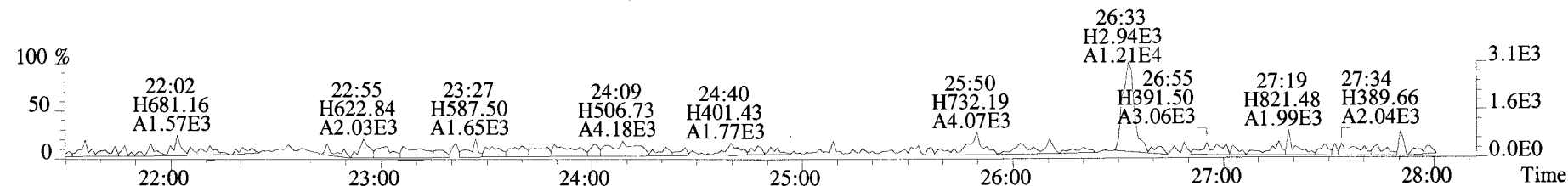
Vista Analytical Laboratory - Injection Log Run file: 191009D1 Instrument ID: VG-7 GC Column ID: ZB-5MS

Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
191009D1	1	ST191009D1-1	DB	9-OCT-19	16:13:04	ST191009D1-4	NA
191009D1	2	ST191009D1-2	DB	9-OCT-19	17:00:45	ST191009D1-4	NA
191009D1	3	ST191009D1-3	DB	9-OCT-19	17:48:27	ST191009D1-4	NA
191009D1	4	ST191009D1-4	DB	9-OCT-19	18:36:09	ST191009D1-4	NA
191009D1	5	ST191009D1-5	DB	9-OCT-19	19:23:46	ST191009D1-4	NA
191009D1	6	ST191009D1-6	DB	9-OCT-19	20:11:17	ST191009D1-4	NA
191009D1	7	SOLVENT BLANK	DB	9-OCT-19	20:58:57	ST191009D1-4	NA
191009D1	8	SS191009D1-1	DB	9-OCT-19	21:46:34	ST191009D1-4	NA
191009D1	9	B9J0001-BS1	DB	9-OCT-19	22:34:09	ST191009D1-4	NA
191009D1	10	SOLVENT BLANK	DB	9-OCT-19	23:21:45	ST191009D1-4	NA
191009D1	11	B9J0001-BLK1	DB	10-OCT-19	00:09:30	ST191009D1-4	NA
191009D1	12	QC191007D1-1	DB	10-OCT-19	00:57:00	ST191009D1-4	NA
191009D1	13	1903285-08	DB	10-OCT-19	01:44:36	ST191009D1-4	NA
191009D1	14	1903285-09	DB	10-OCT-19	02:32:11	ST191009D1-4	NA
191009D1	15	1903285-10	DB	10-OCT-19	03:19:47	ST191009D1-4	NA
191009D1	16	1903103-02@5X	DB	10-OCT-19	04:07:23	ST191009D1-4	NA
191009D1	17	1903103-01@5X	DB	10-OCT-19	04:54:54	ST191009D1-4	NA
191009D1	18	B9I0240-DUP1@5X	DB	10-OCT-19	05:42:38	ST191009D1-4	NA

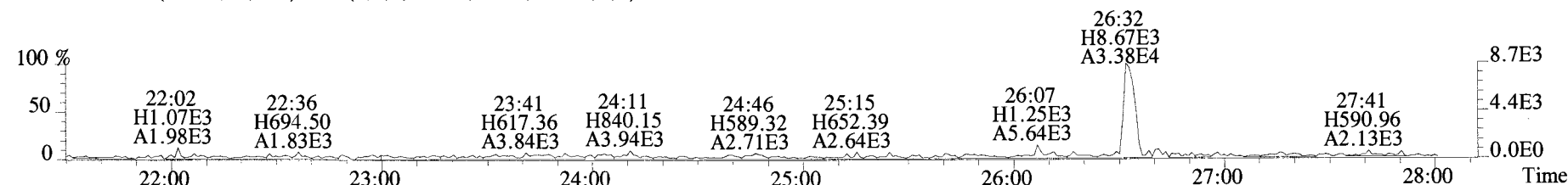
File:191009D1 #1-514 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
319.8965 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



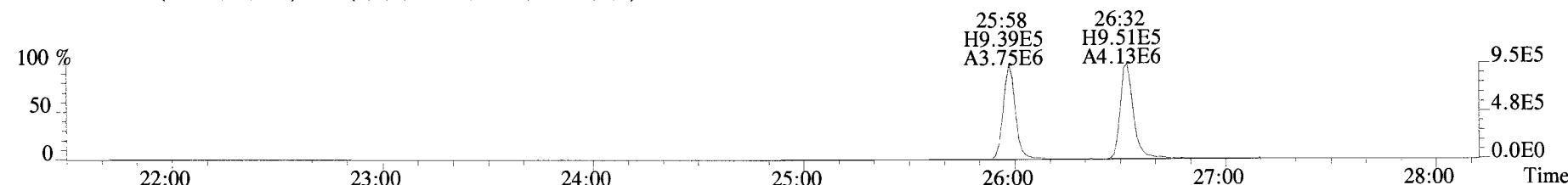
321.8936 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



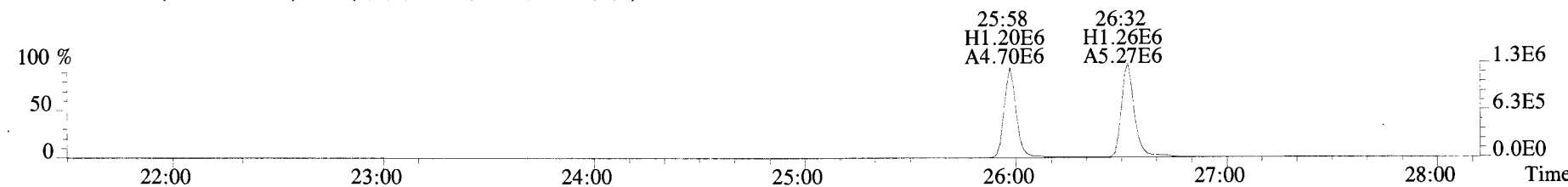
327.8847 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



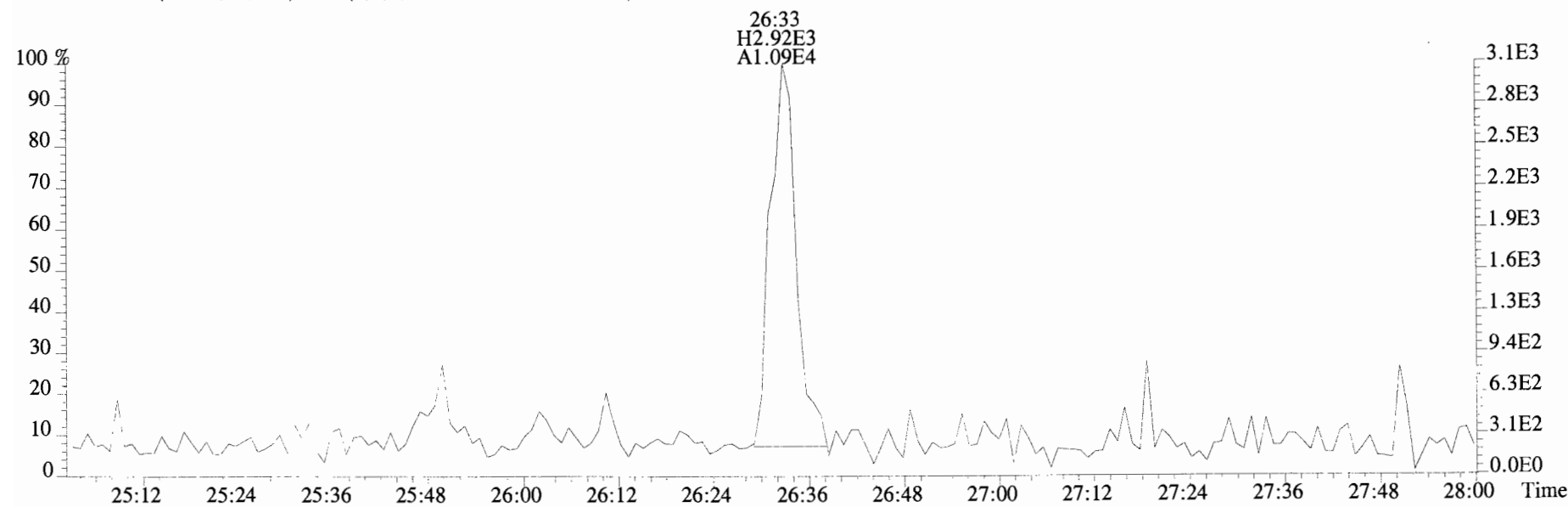
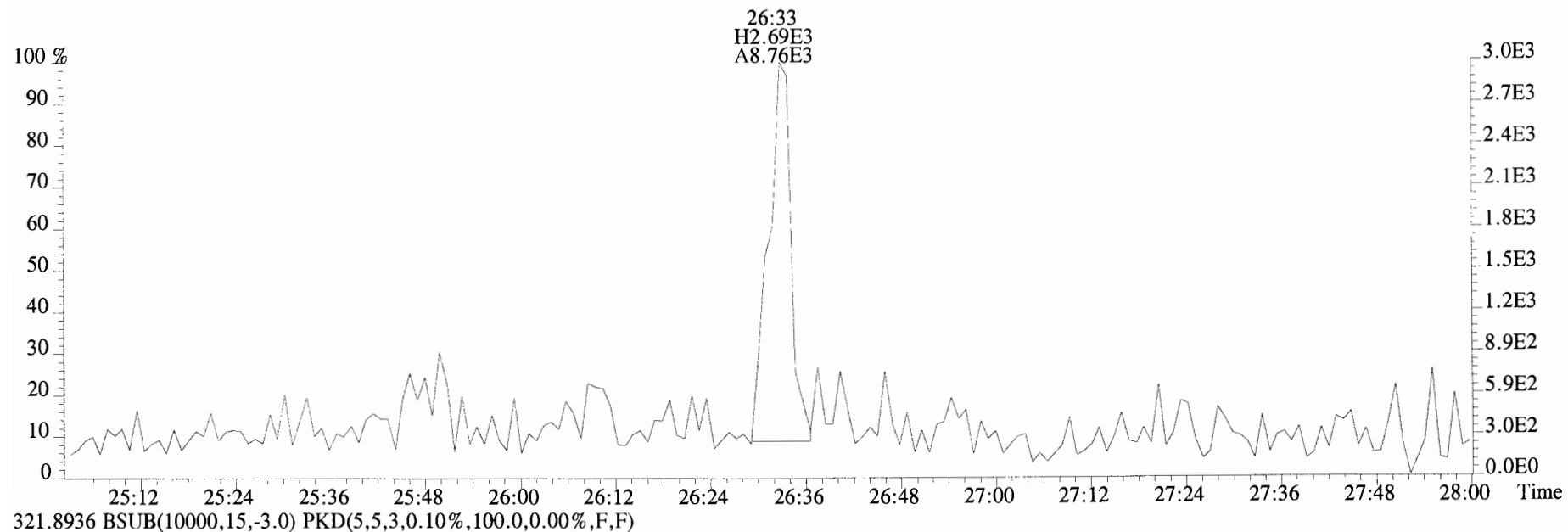
331.9368 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



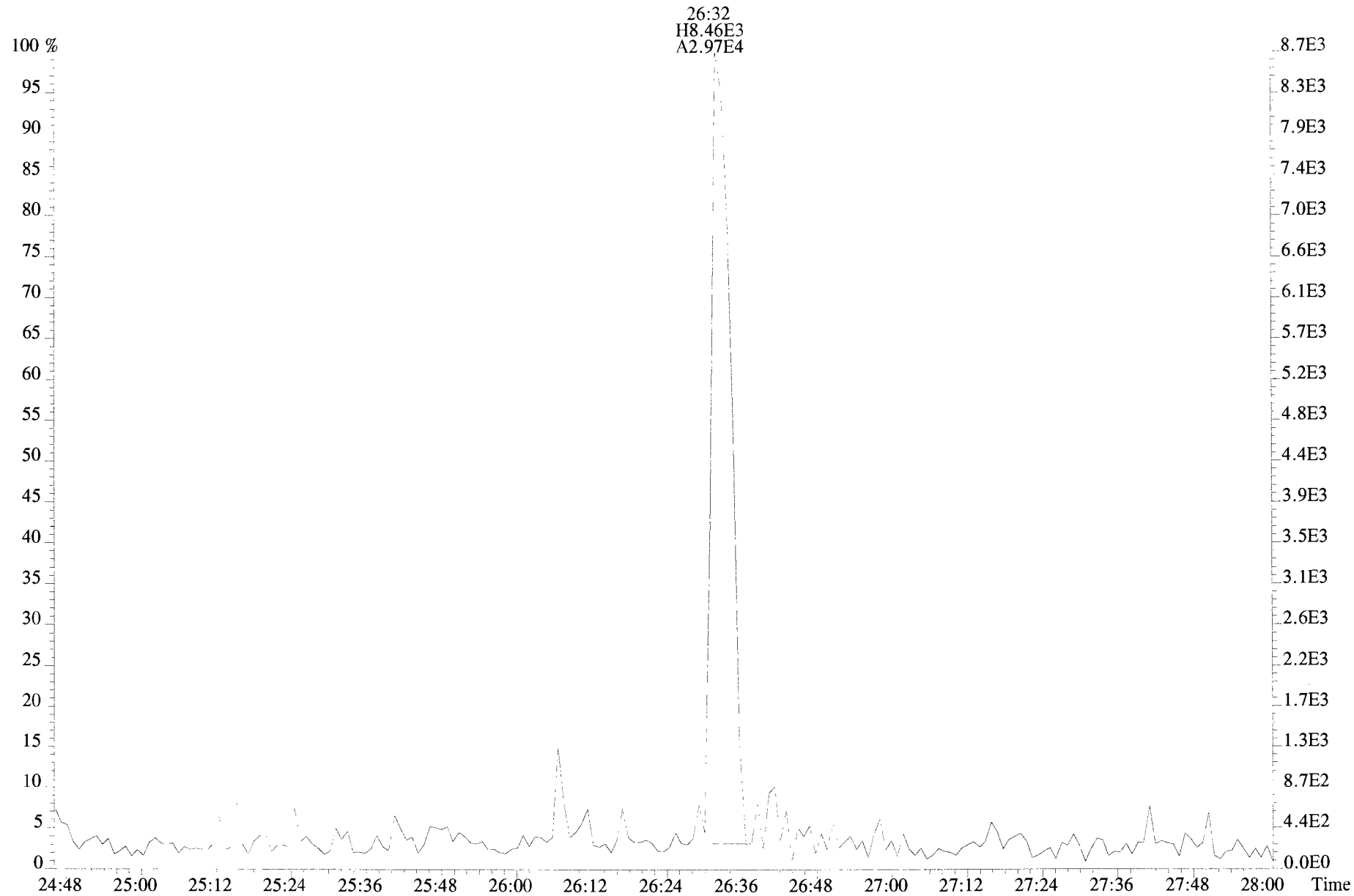
333.9339 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



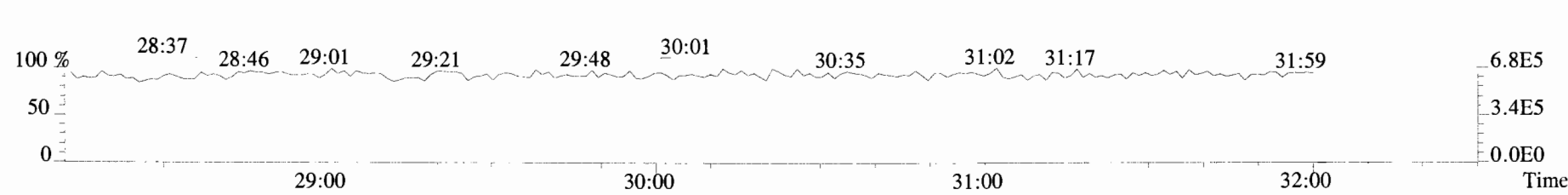
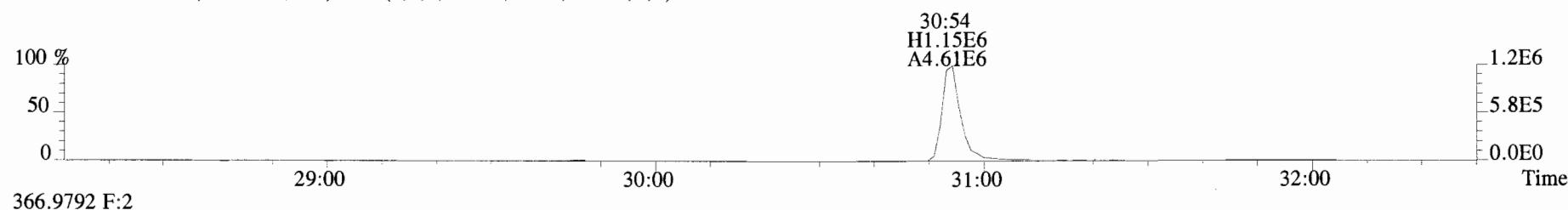
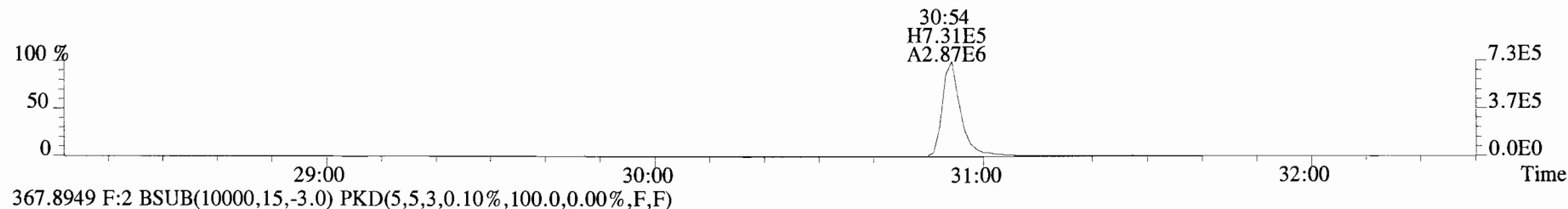
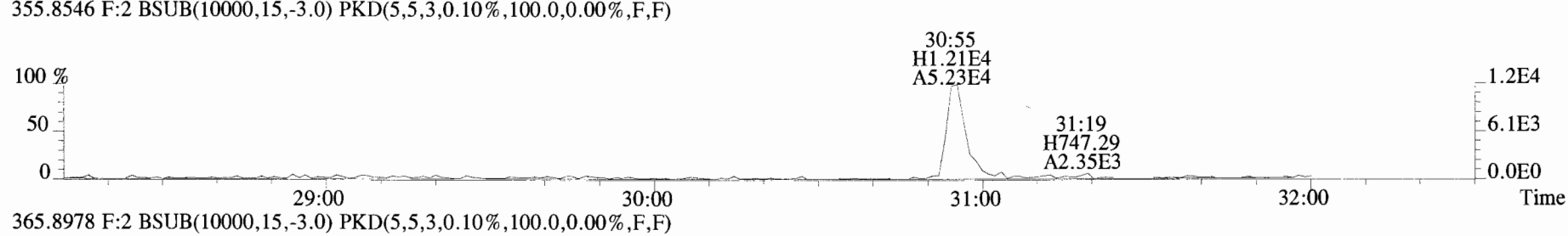
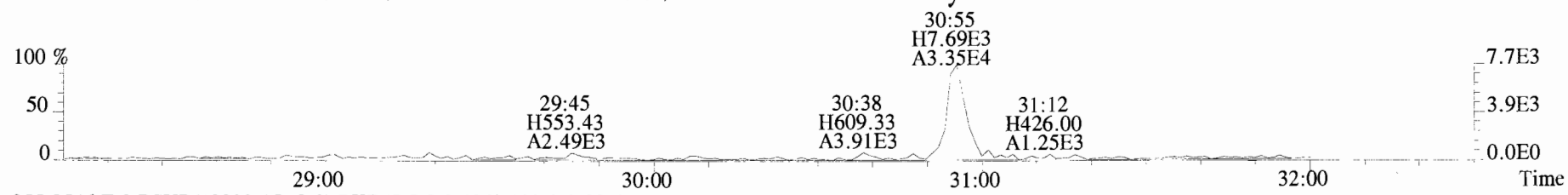
File:191009D1 #1-514 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
319.8965 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



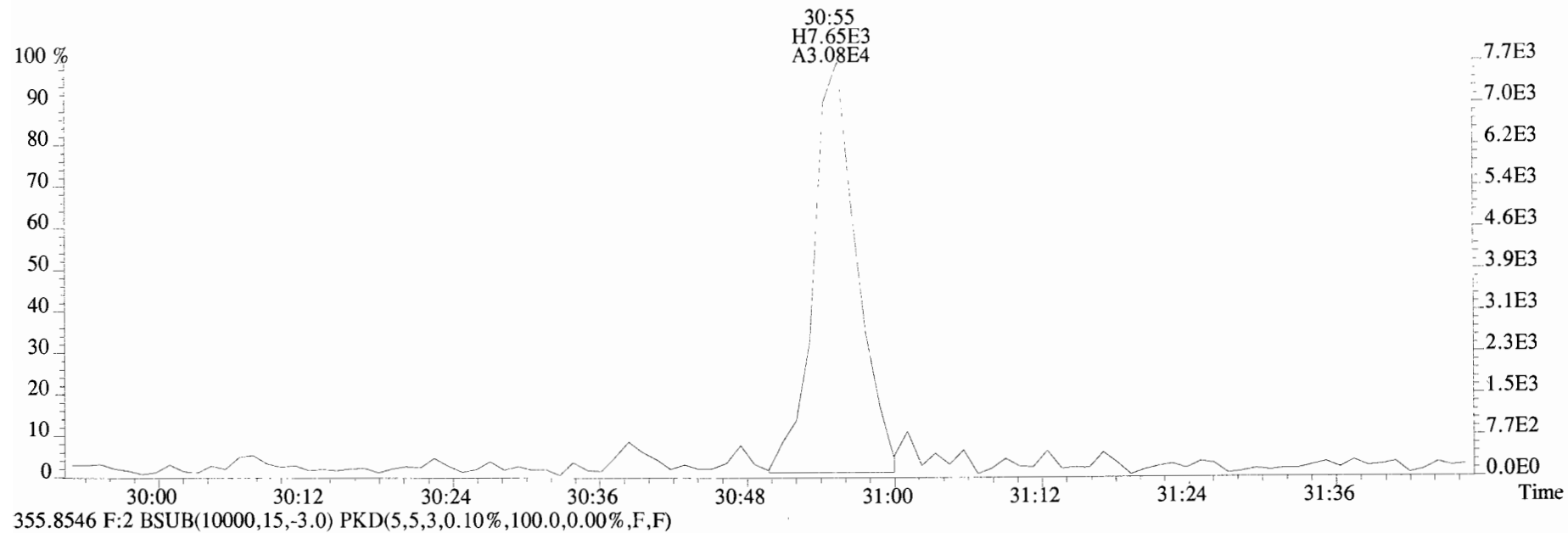
File:191009D1 #1-514 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
327.8847 BSUB(10000,15,-3.0)



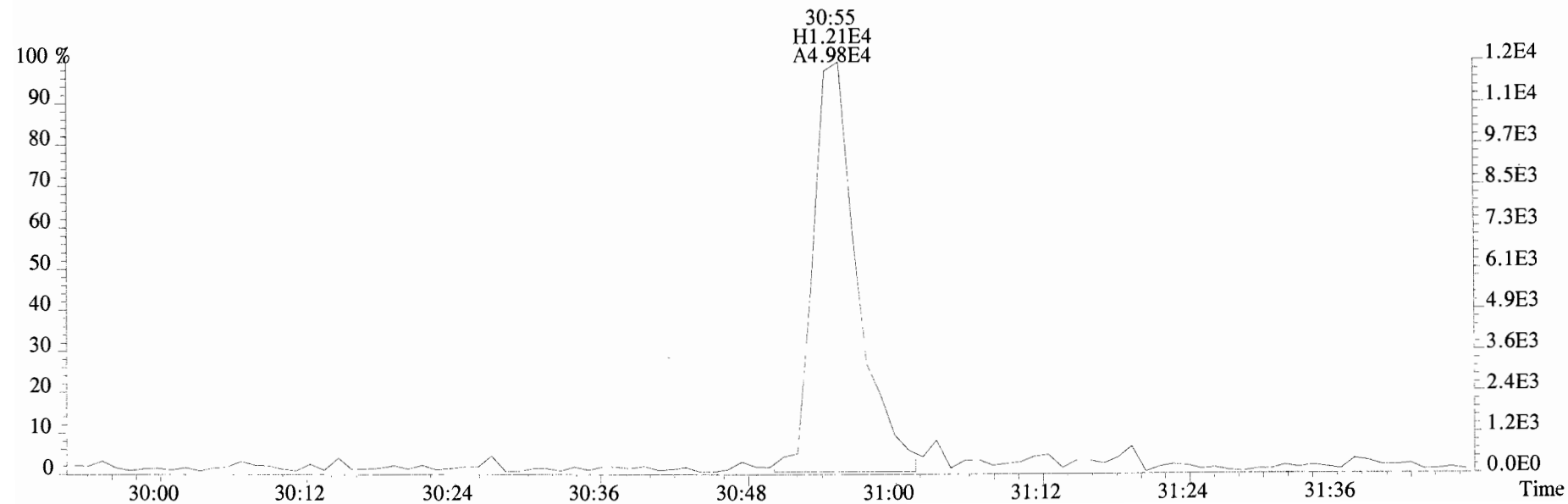
File:191009D1 #1-210 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
353.8576 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



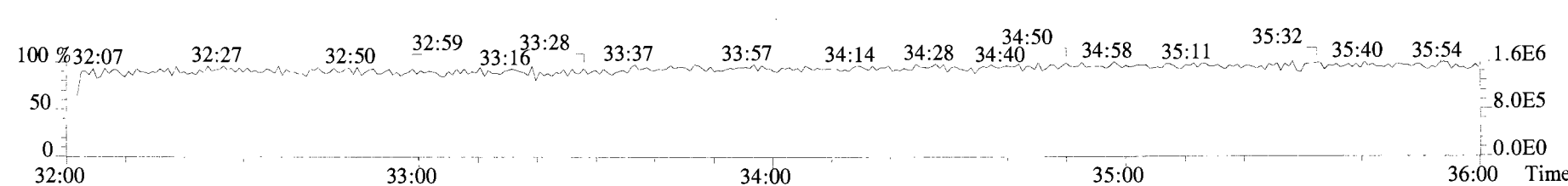
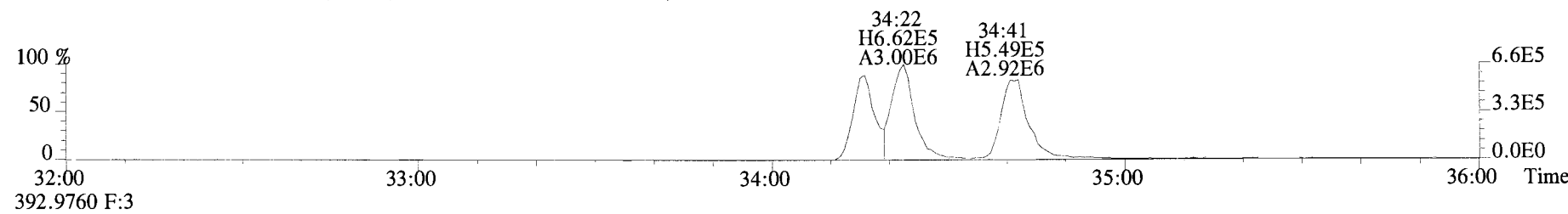
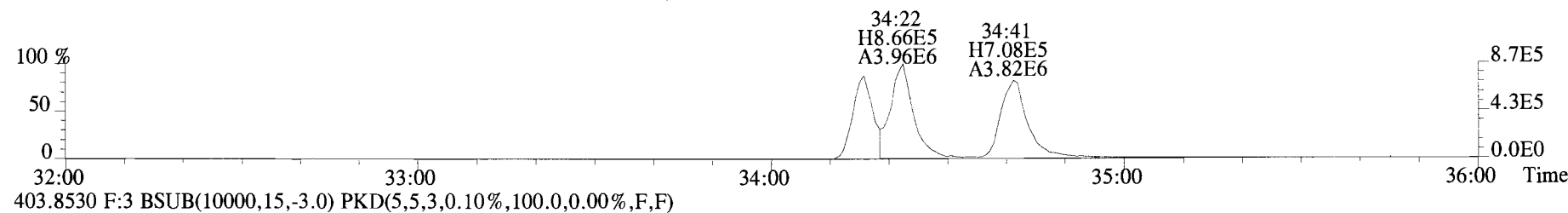
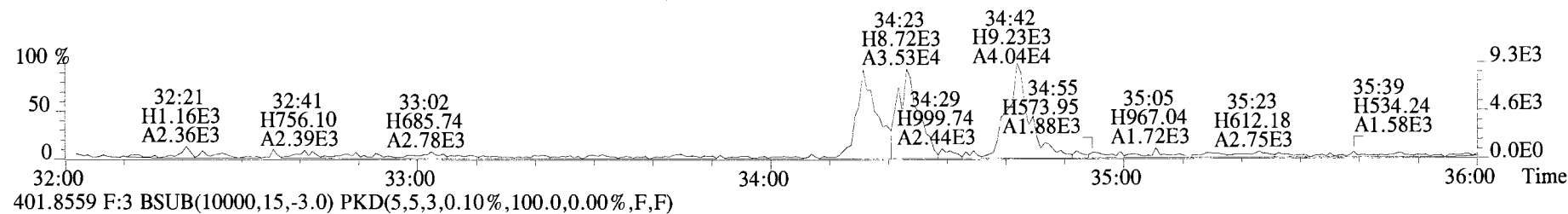
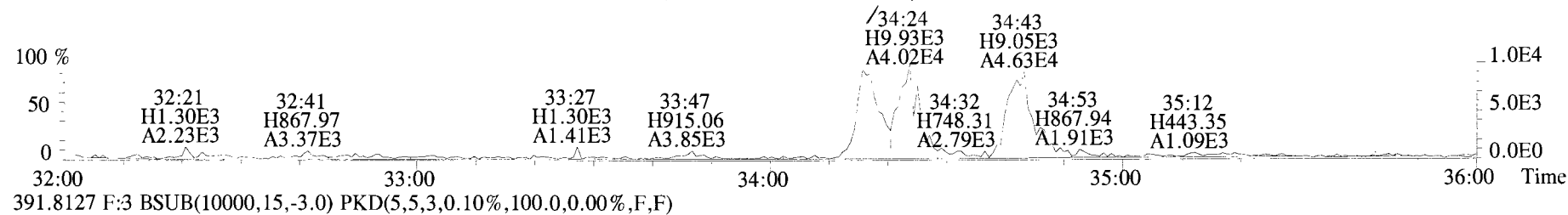
File:191009D1 #1-210 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
353.8576 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



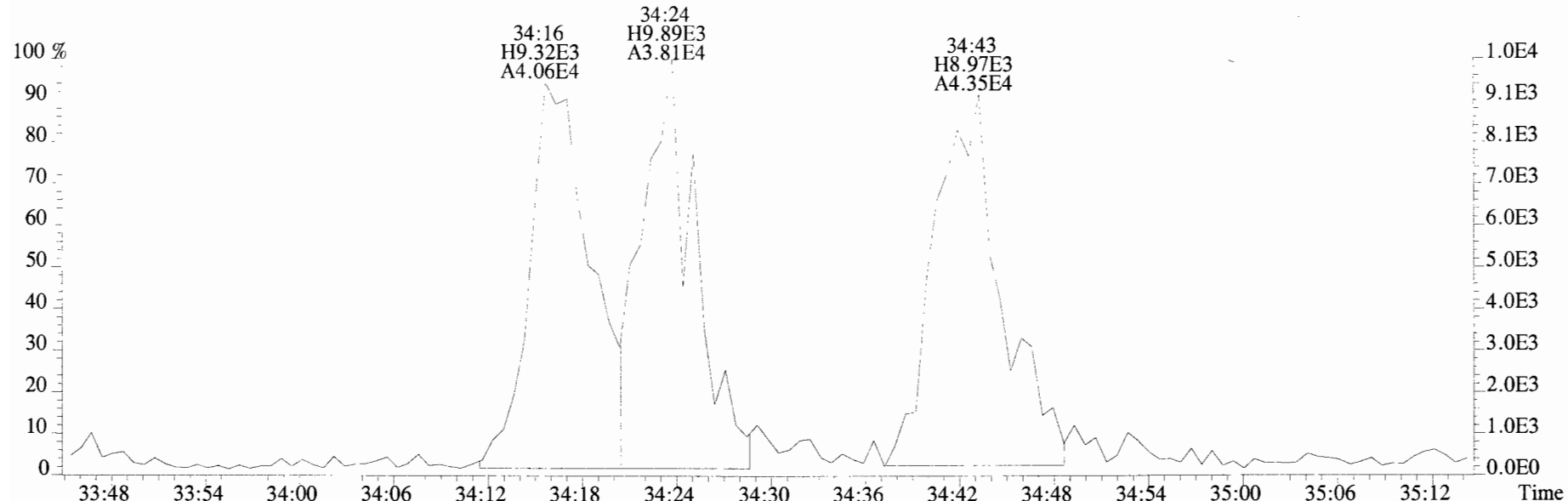
355.8546 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



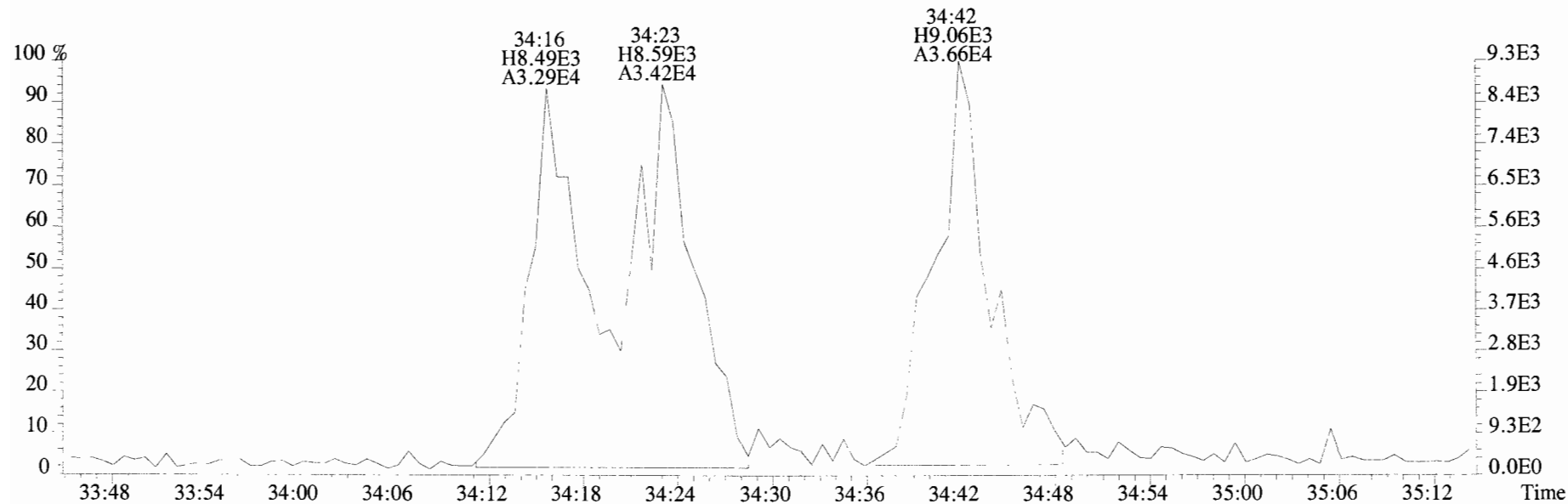
File:191009D1 #1-356 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
 389.8156 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



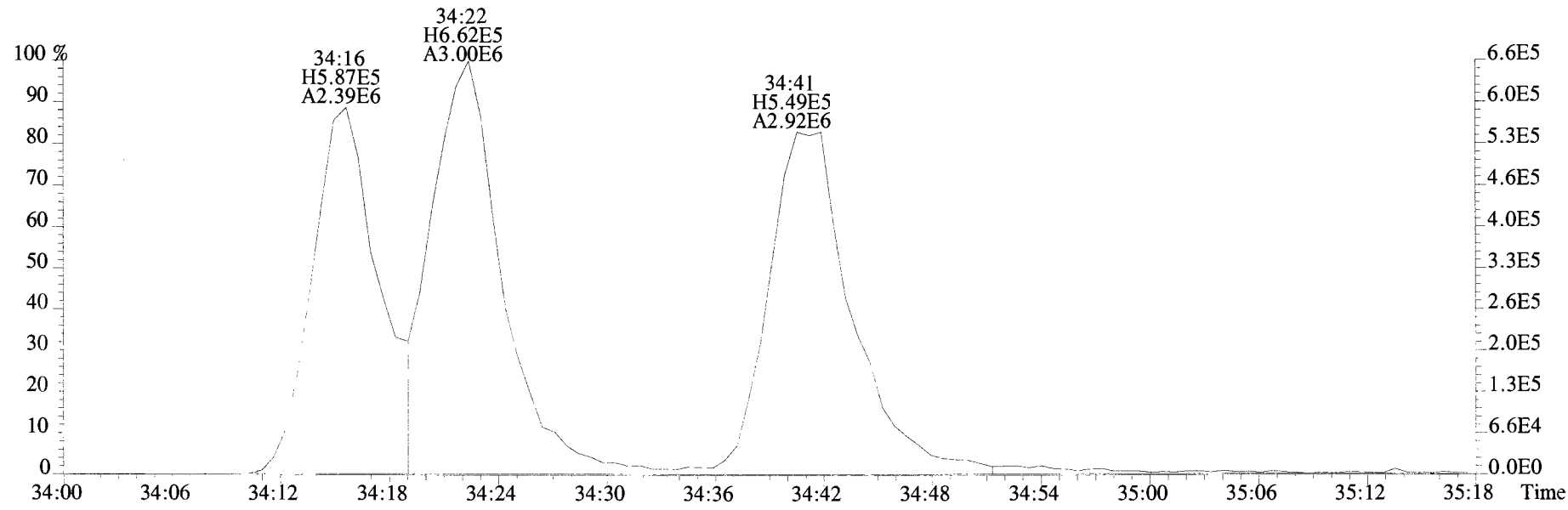
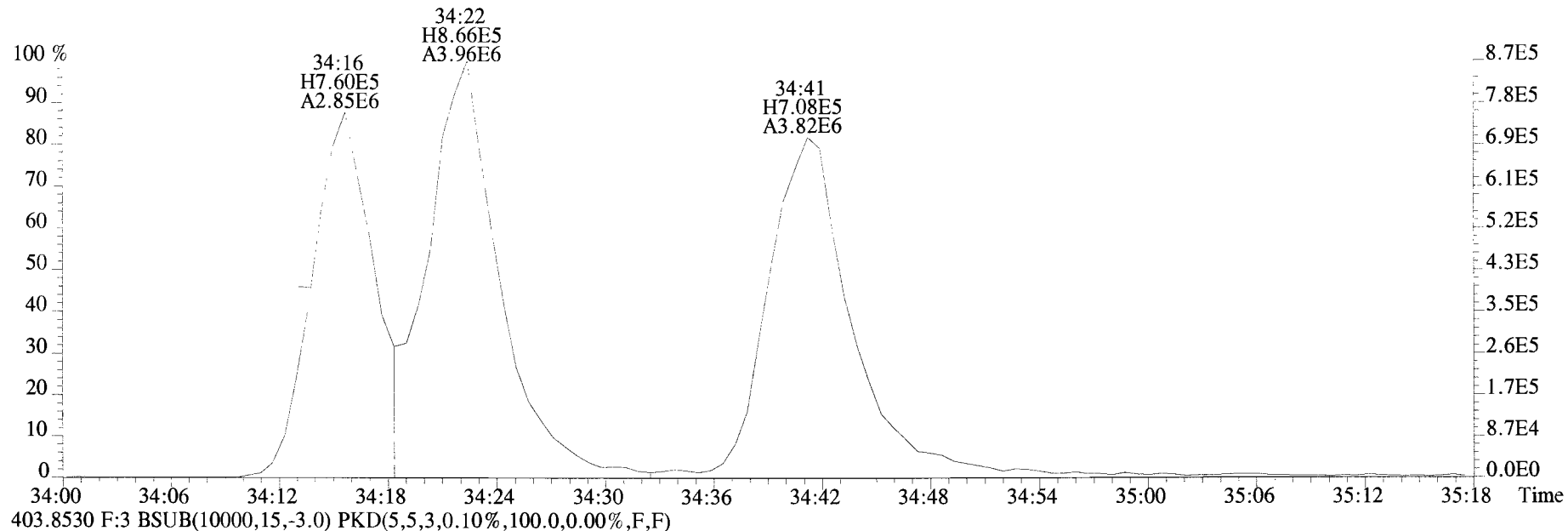
File:191009D1 #1-356 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
389.8156 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



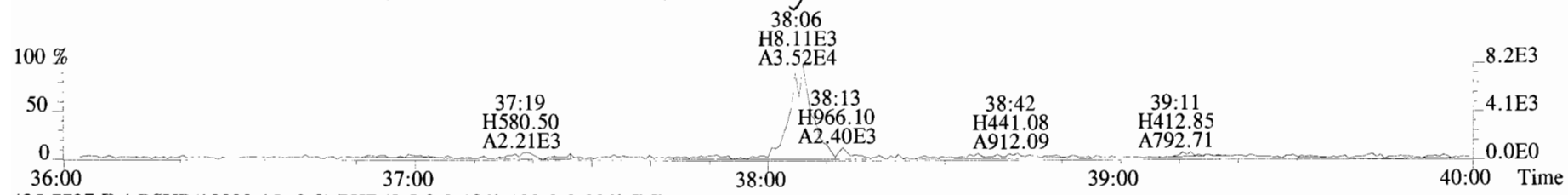
391.8127 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



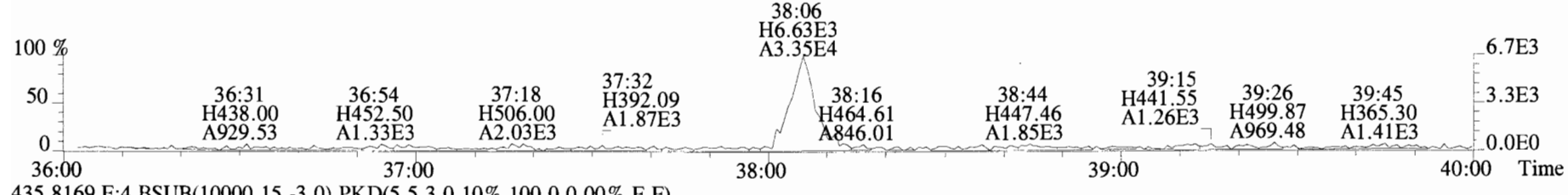
File:191009D1 #1-356 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



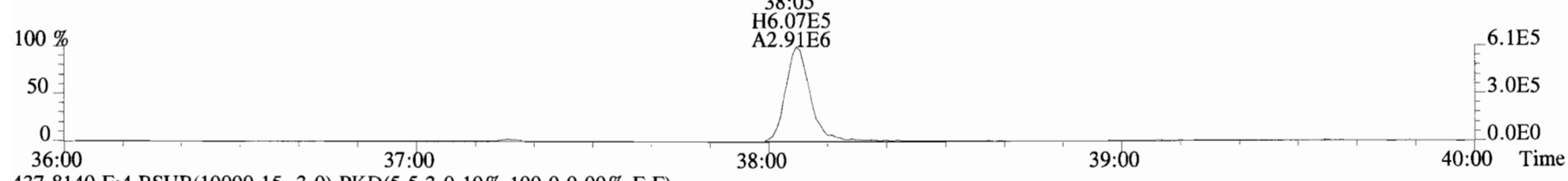
File:191009D1 #1-355 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
 423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



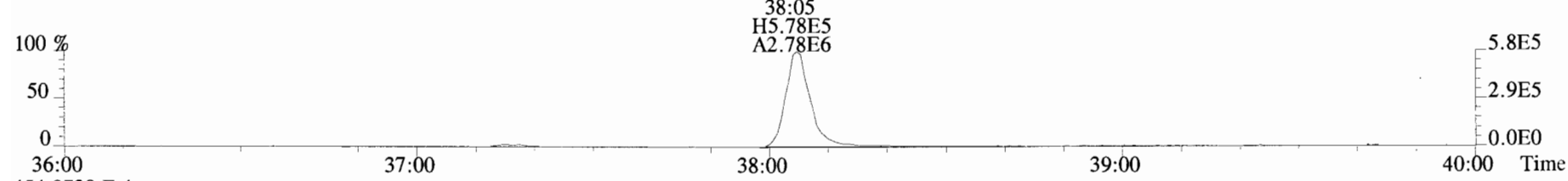
425.7737 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



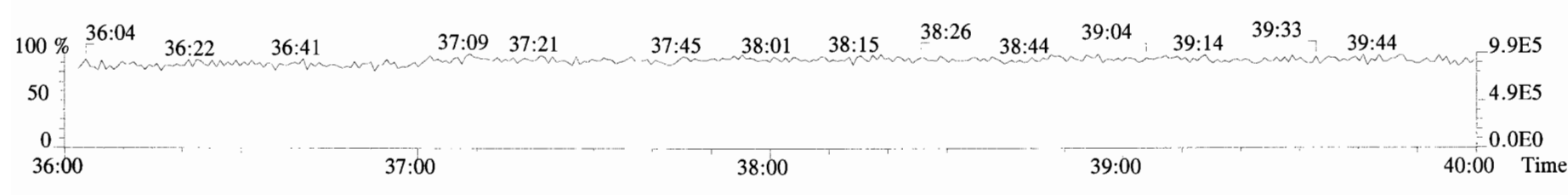
435.8169 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



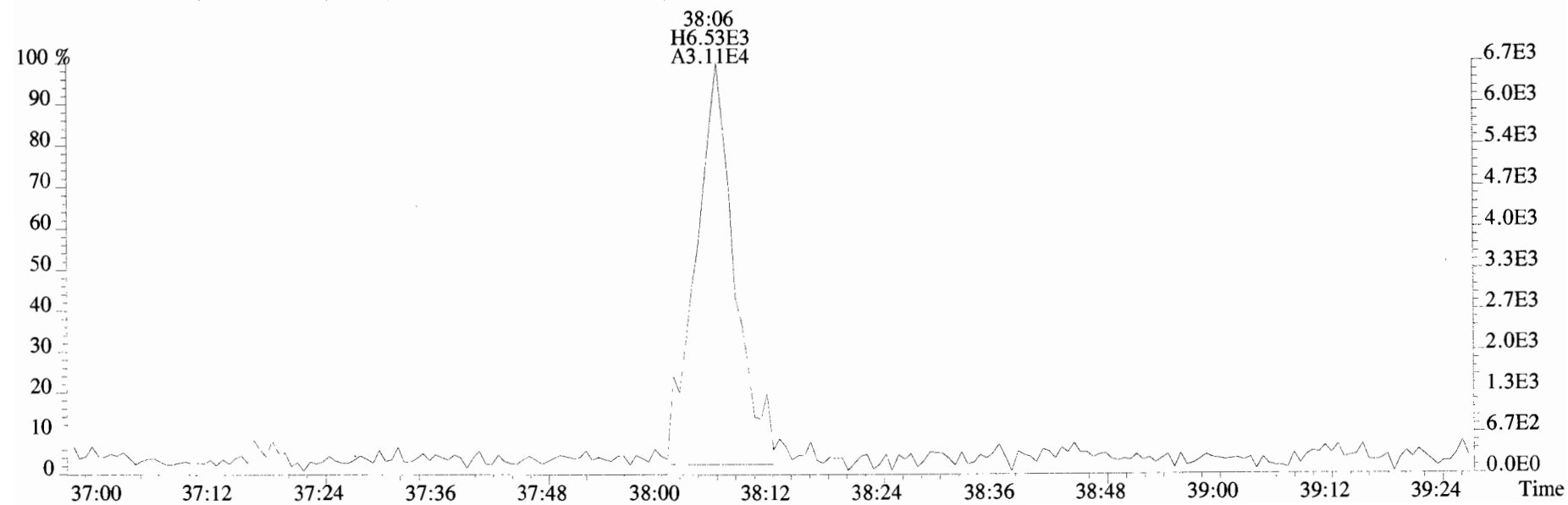
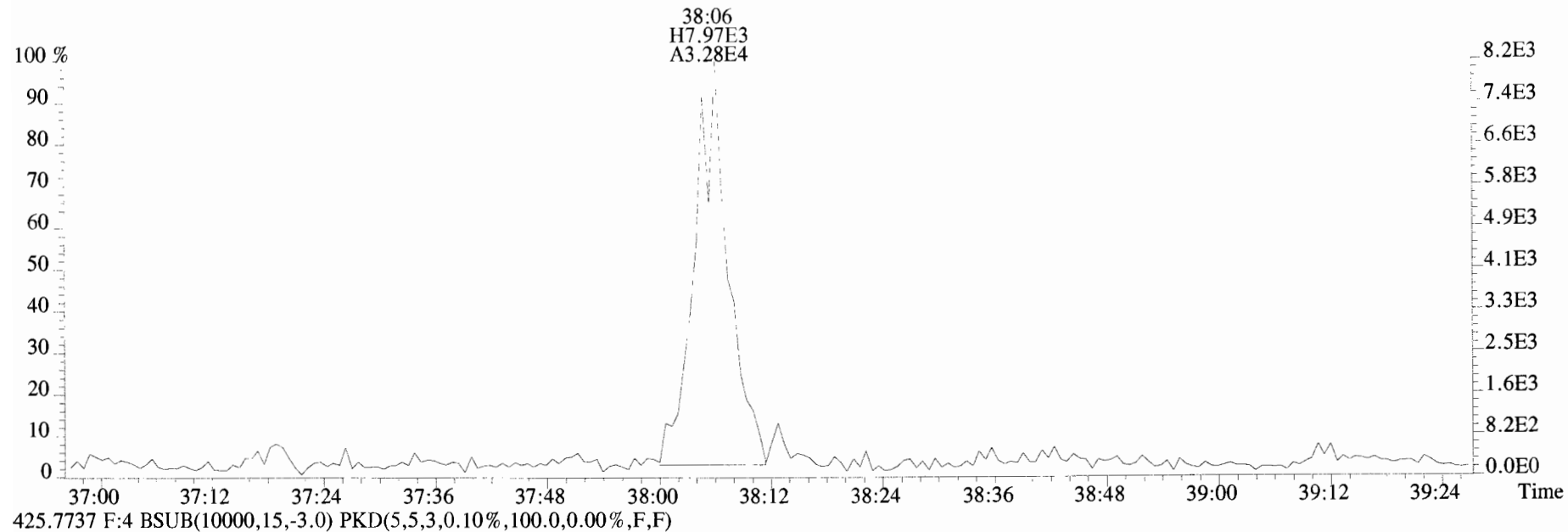
437.8140 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



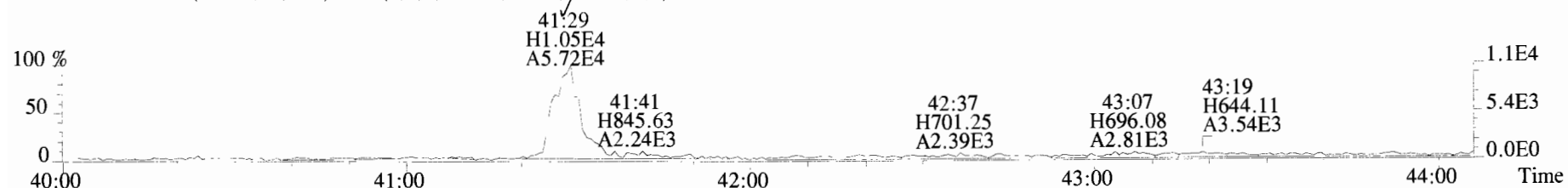
454.9728 F:4



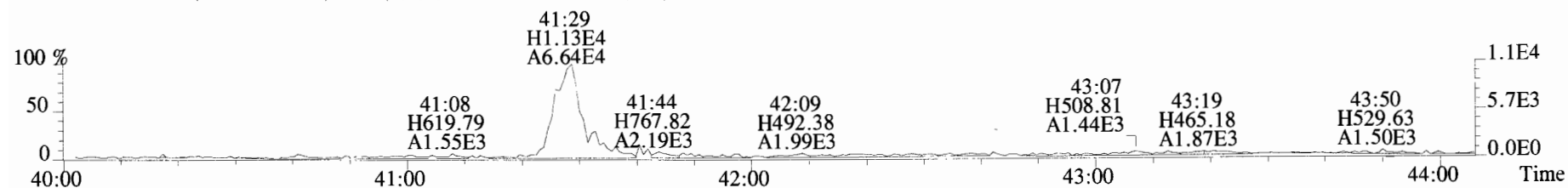
File:191009D1 #1-355 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



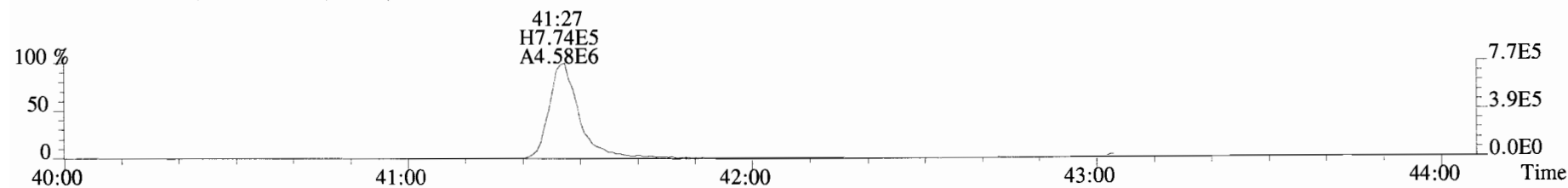
File:191009D1 #1-432 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
457.7377 F:5 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



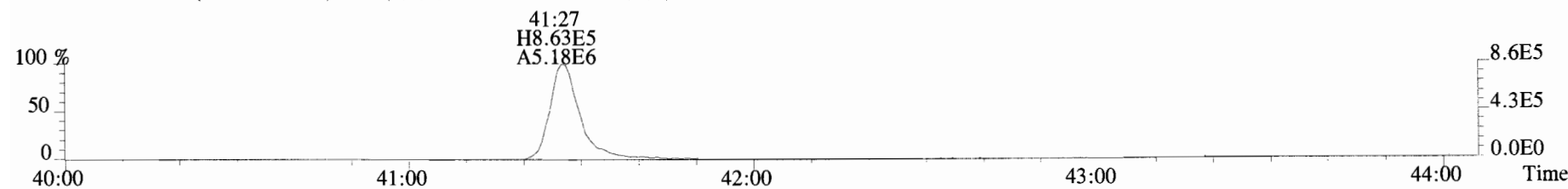
459.7348 F:5 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



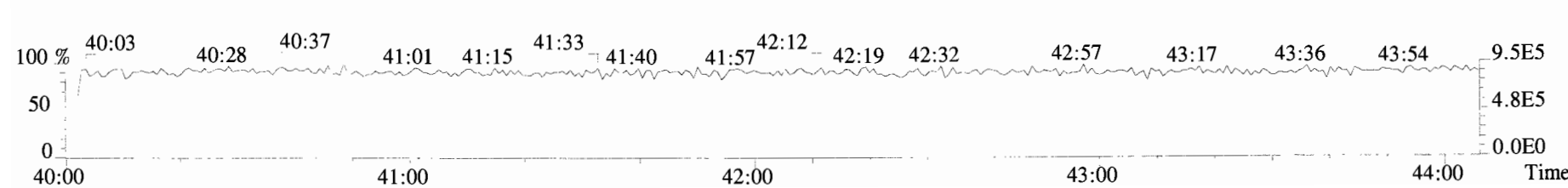
469.7780 F:5 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



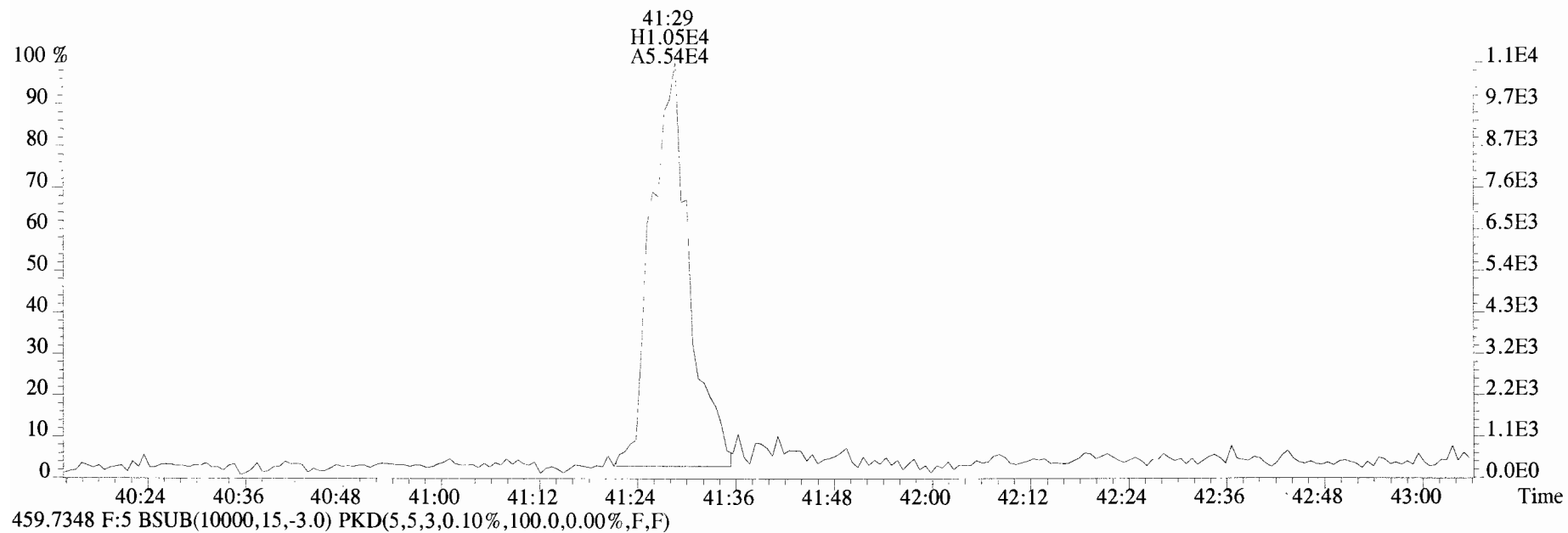
471.7750 F:5 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



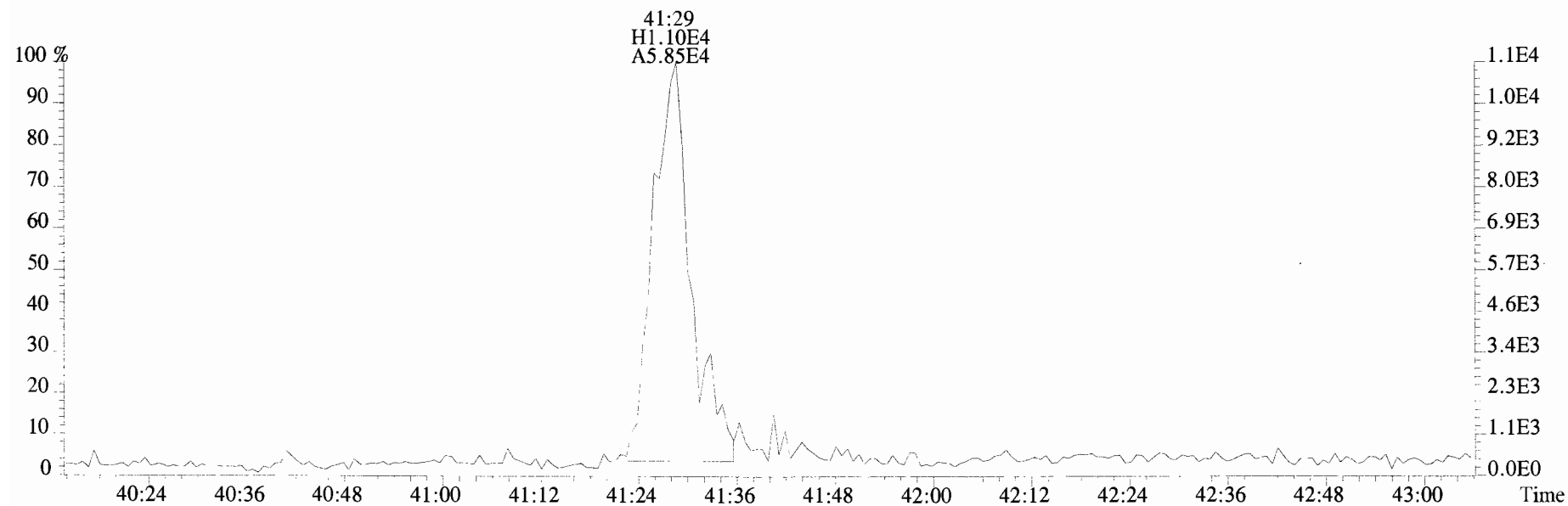
454.9728 F:5



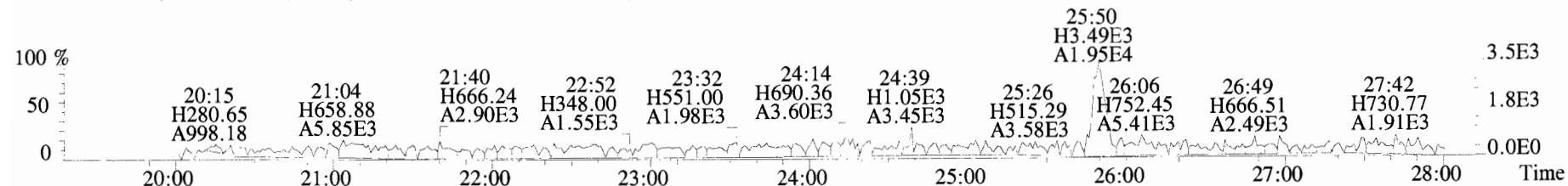
File:191009D1 #1-432 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



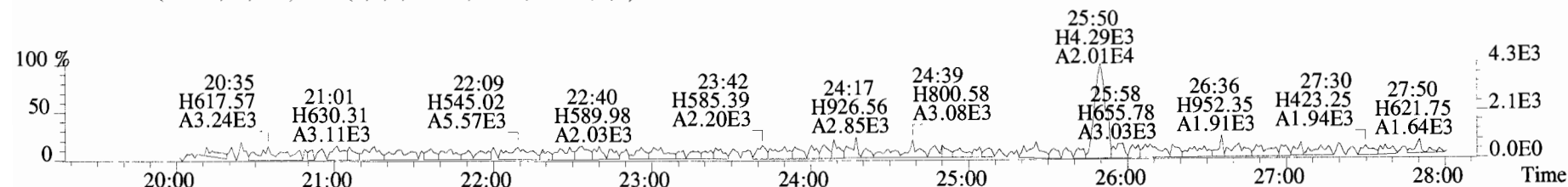
459.7348 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



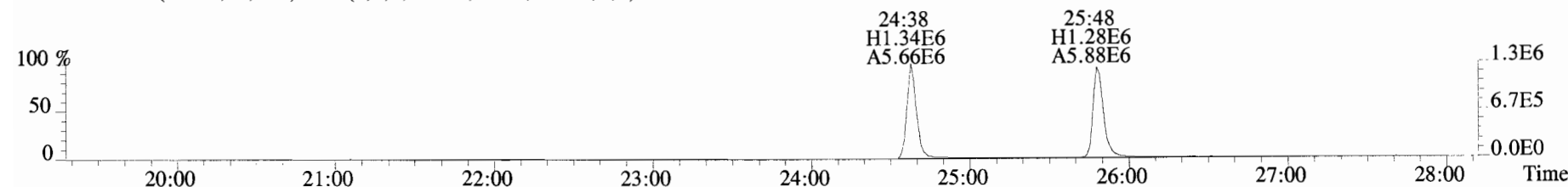
File:191009D1 #1-514 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
 303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



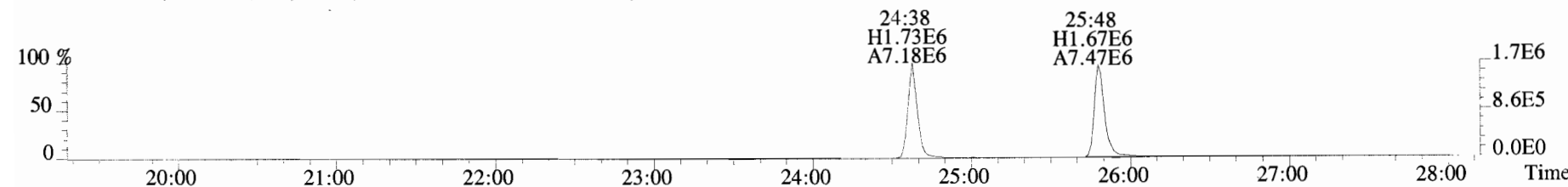
305.8987 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



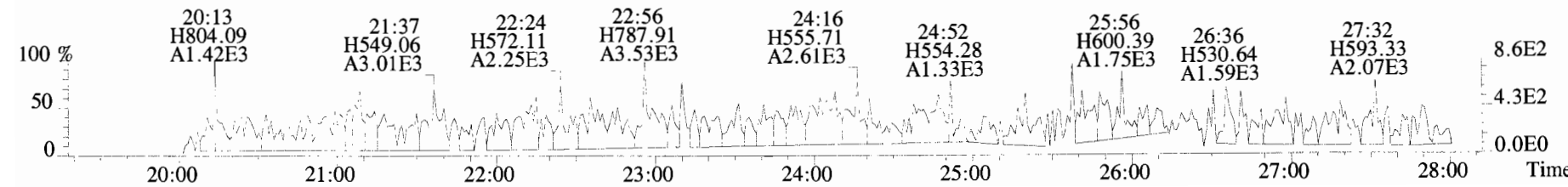
315.9419 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



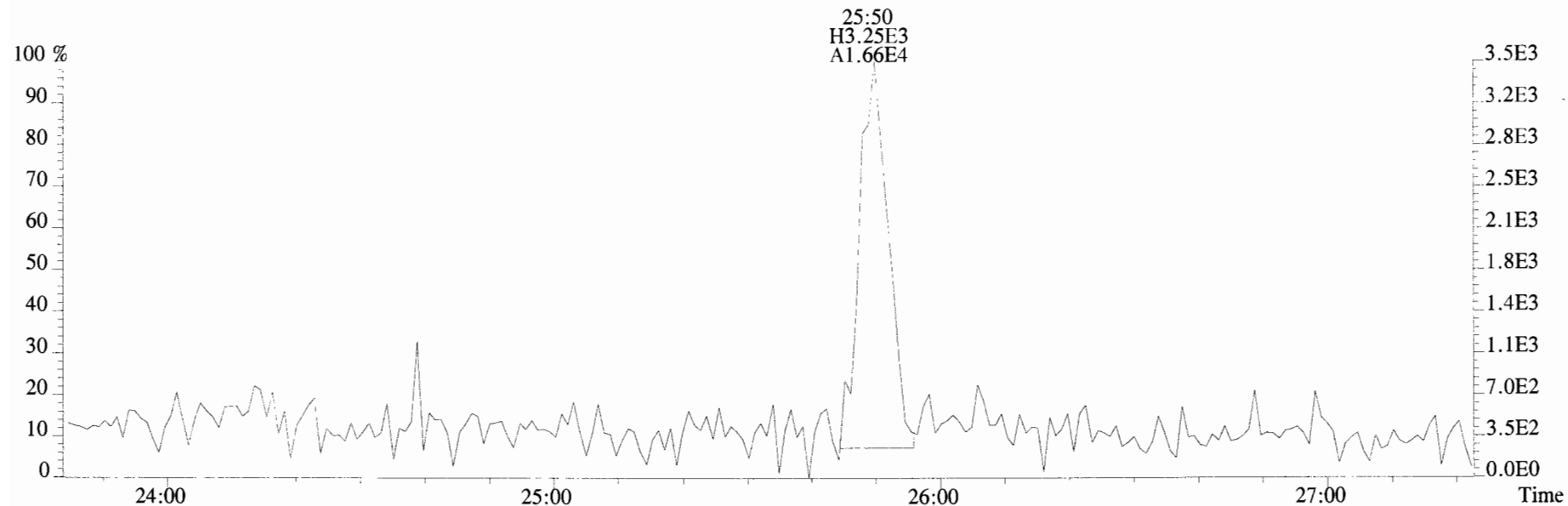
317.9389 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



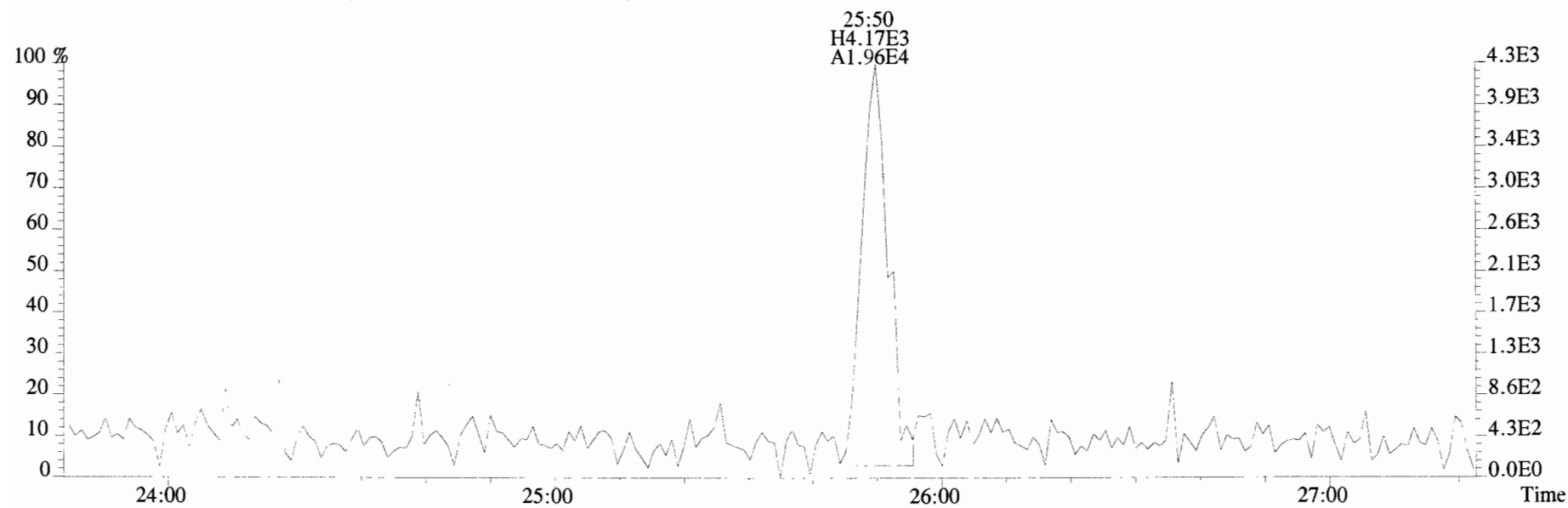
375.8364 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



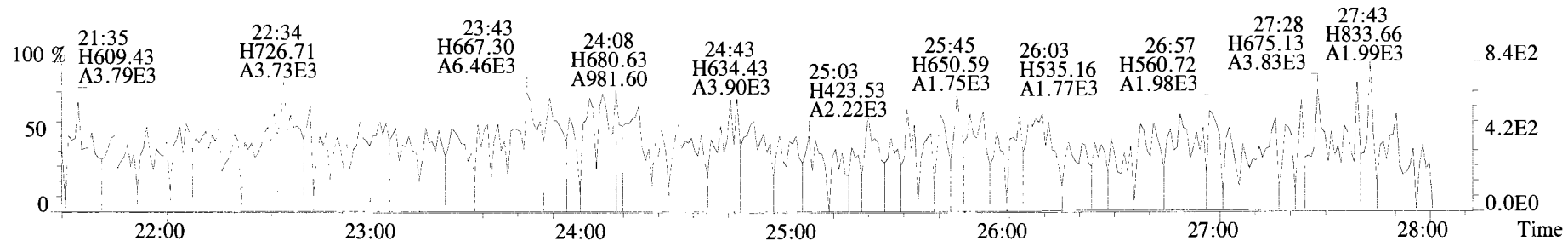
File:191009D1 #1-514 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



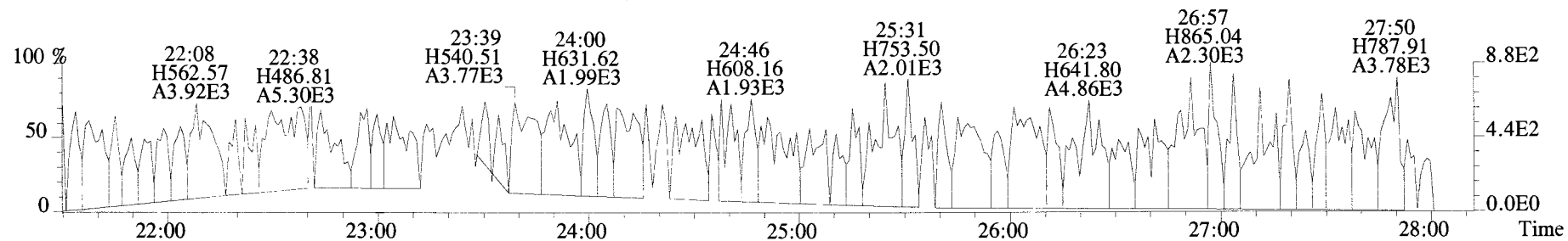
305.8987 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



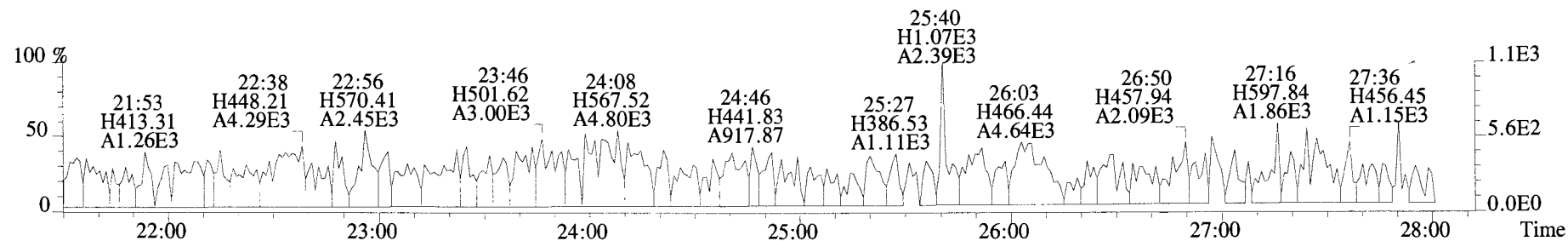
File:191009D1 #1-514 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
 339.8597 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



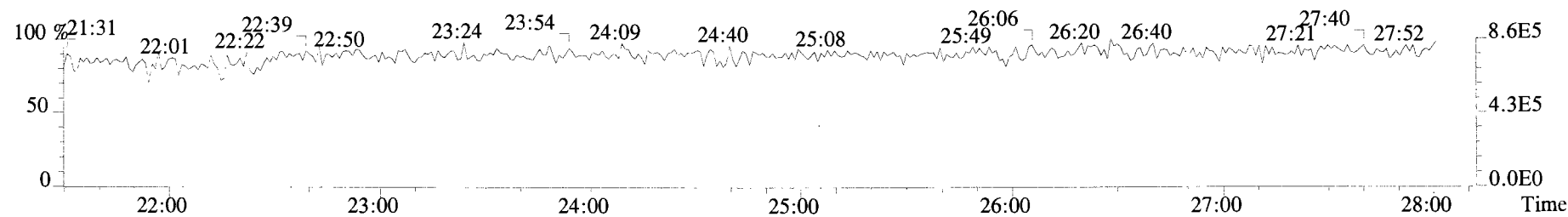
341.8568 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



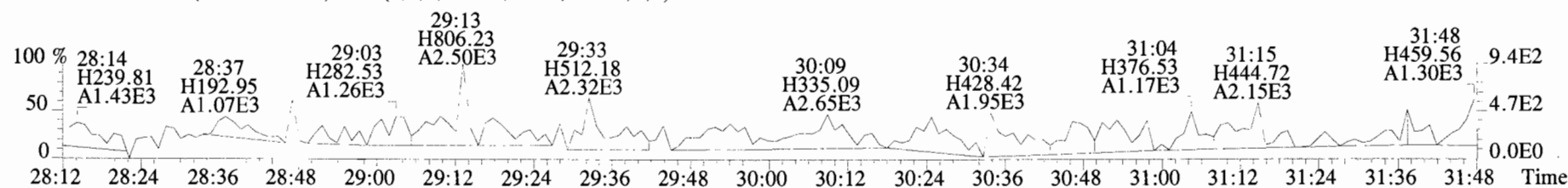
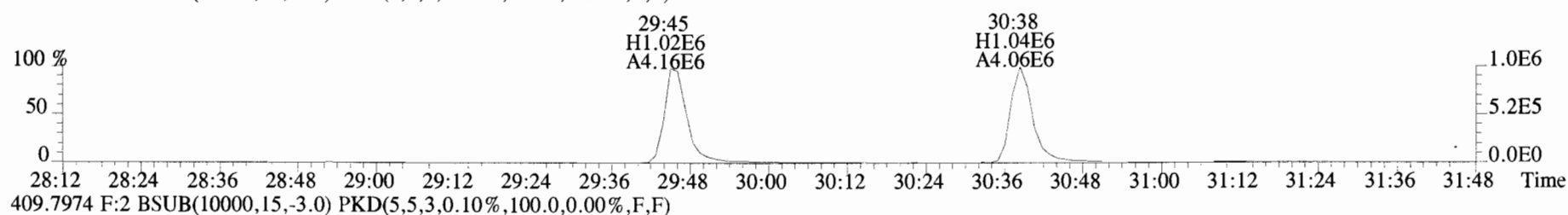
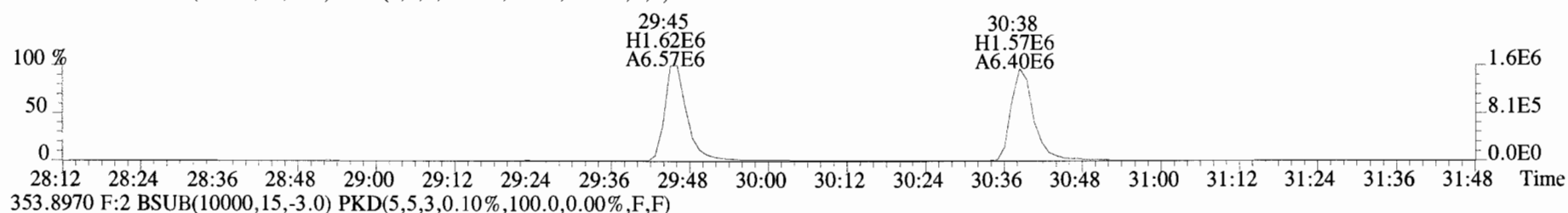
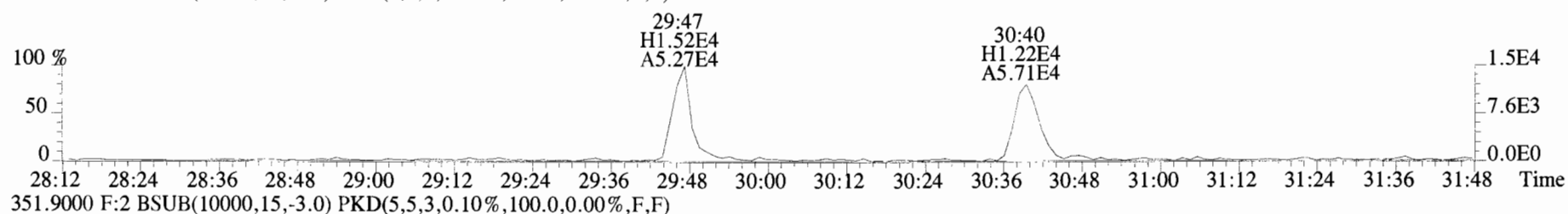
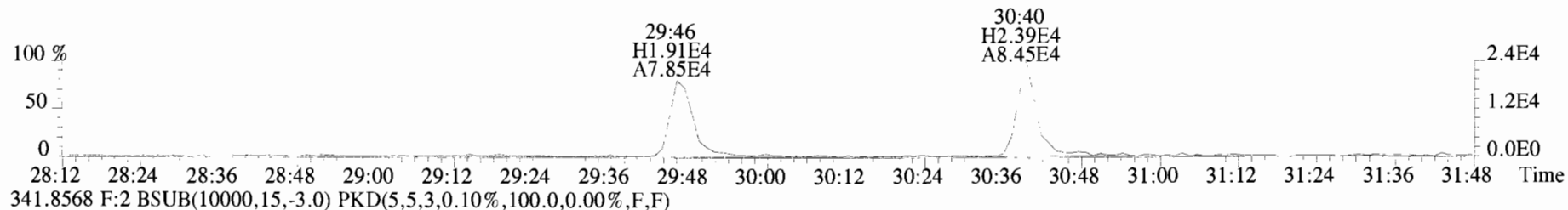
409.7974 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



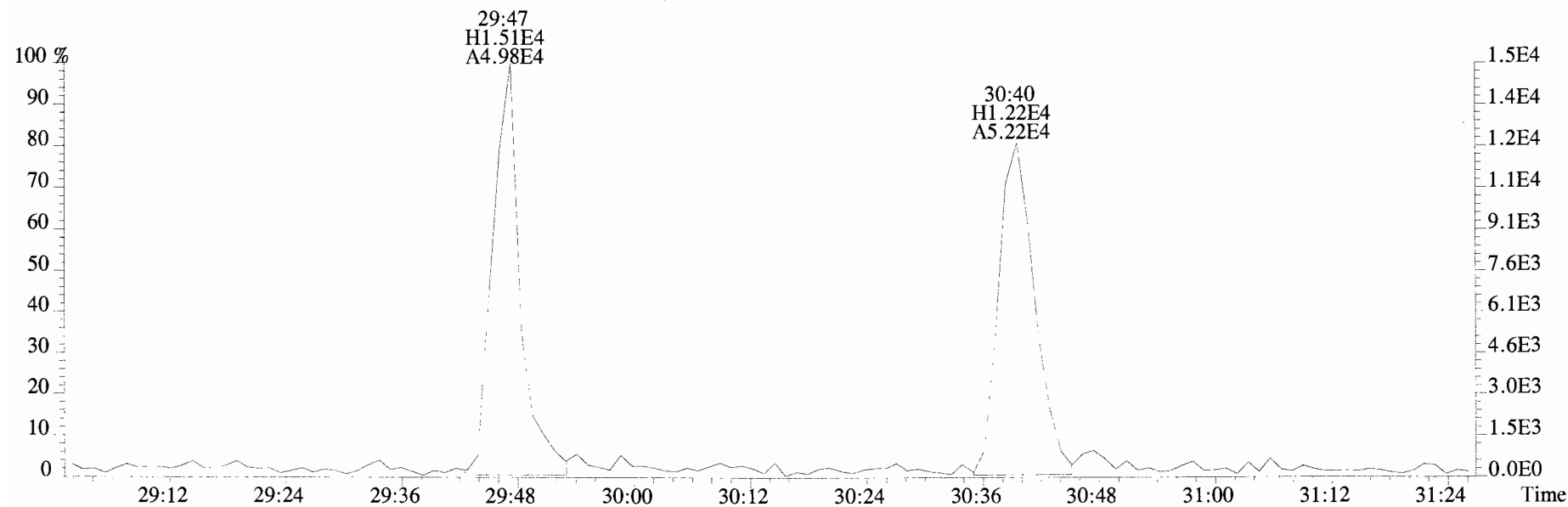
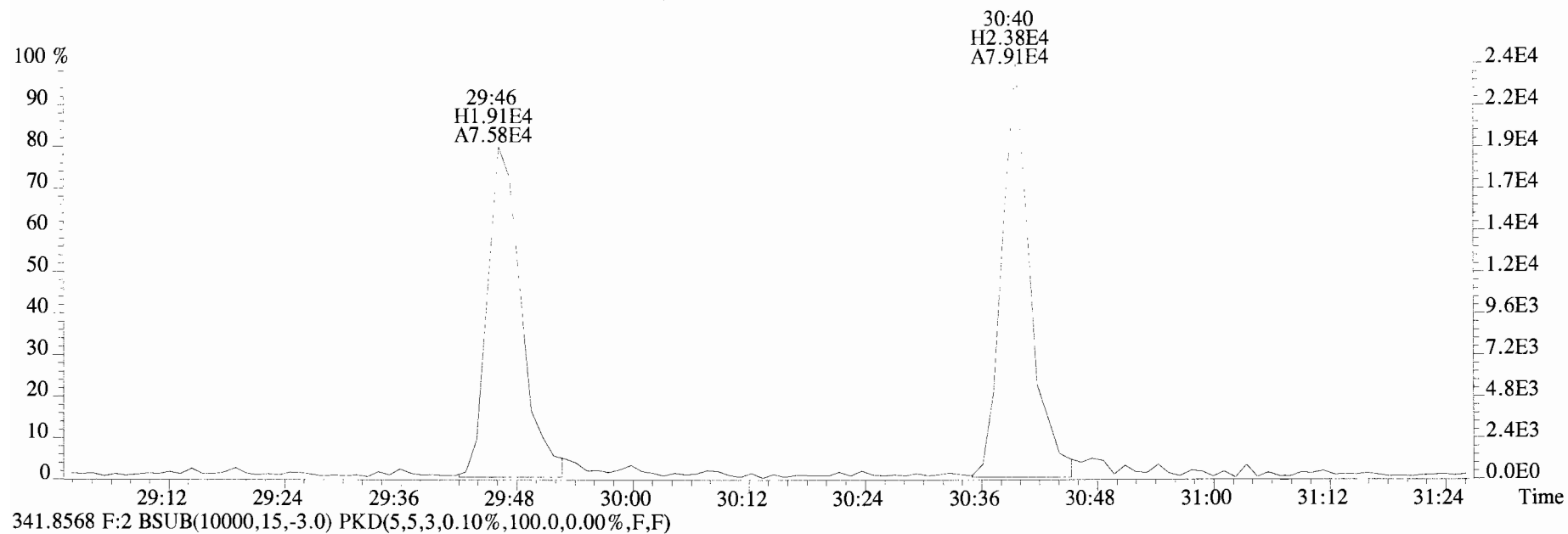
316.9824



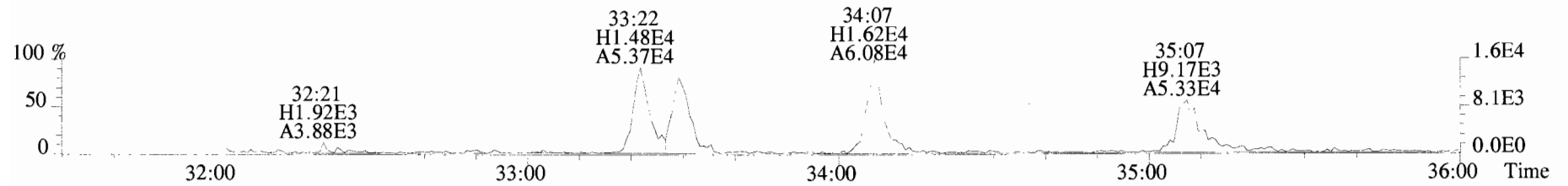
File:191009D1 #1-210 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
339.8597 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



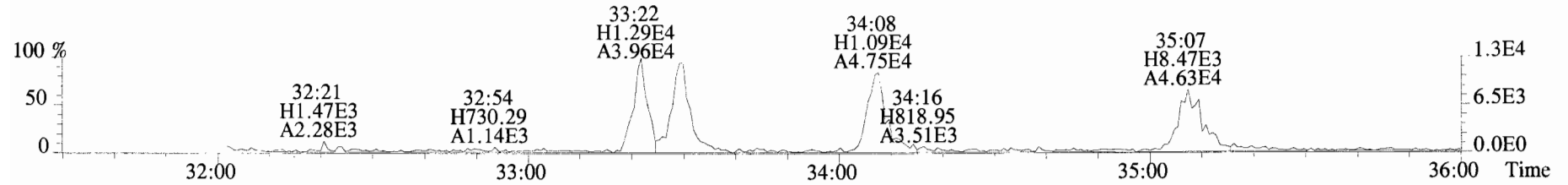
File:191009D1 #1-210 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
339.8597 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



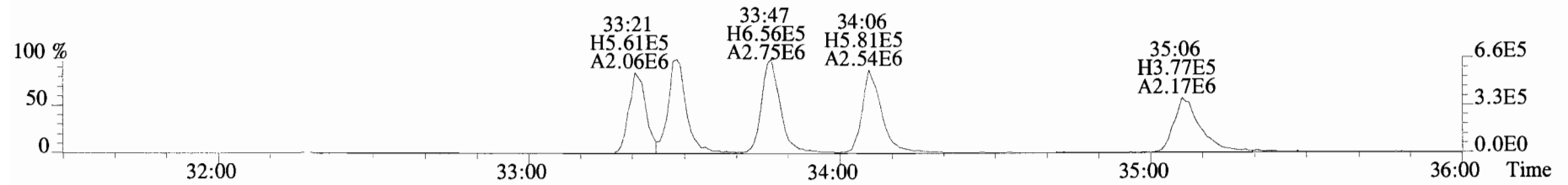
File:191009D1 #1-356 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
 373.8207 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



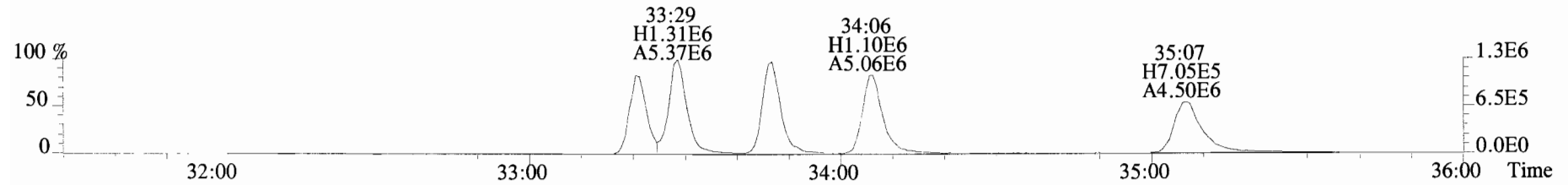
375.8178 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



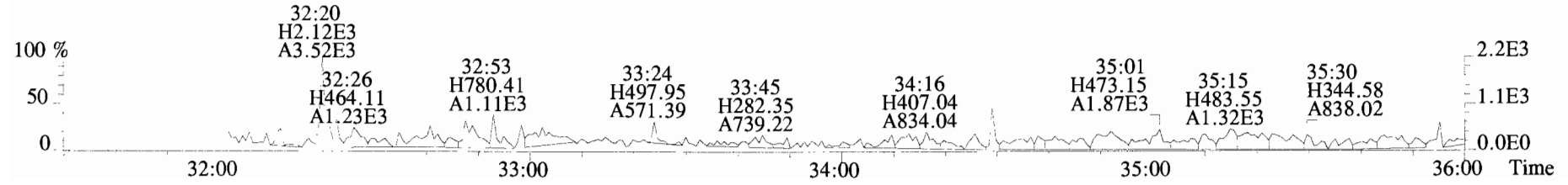
383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



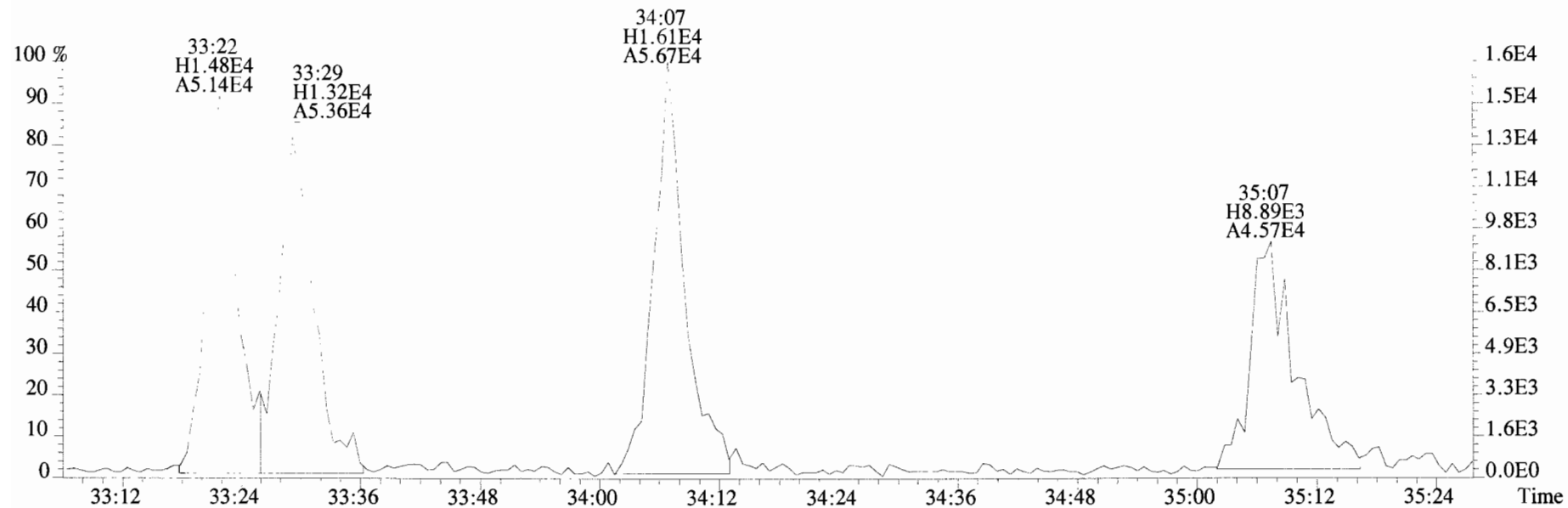
385.8610 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



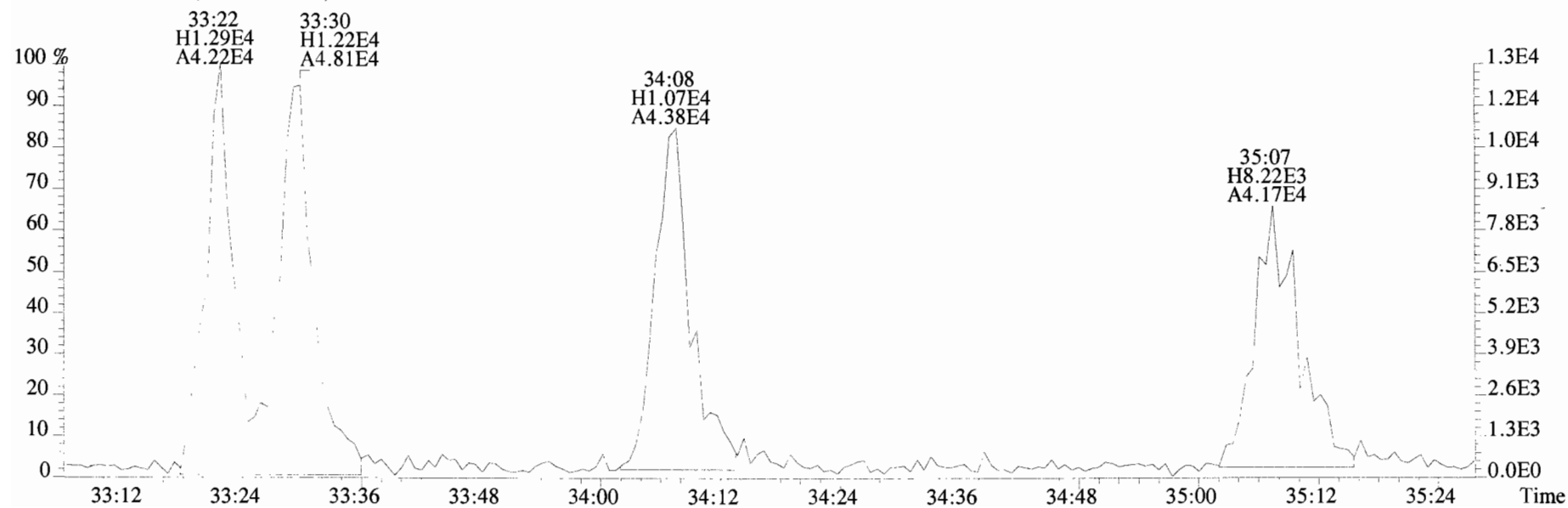
445.7555 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



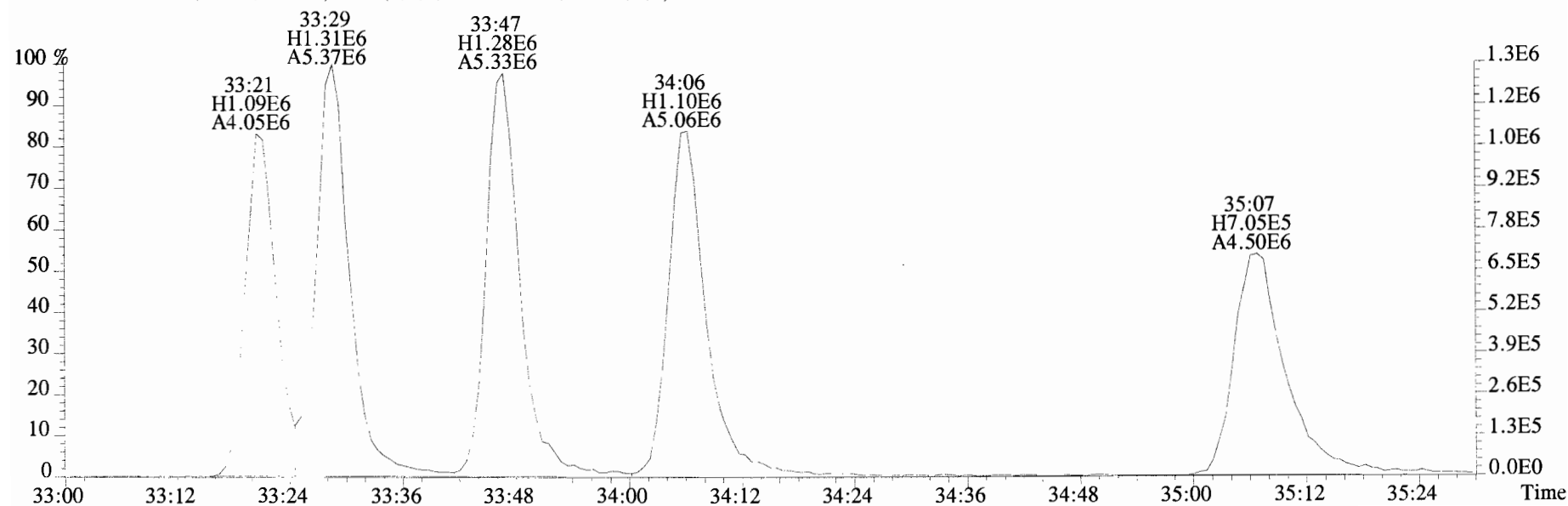
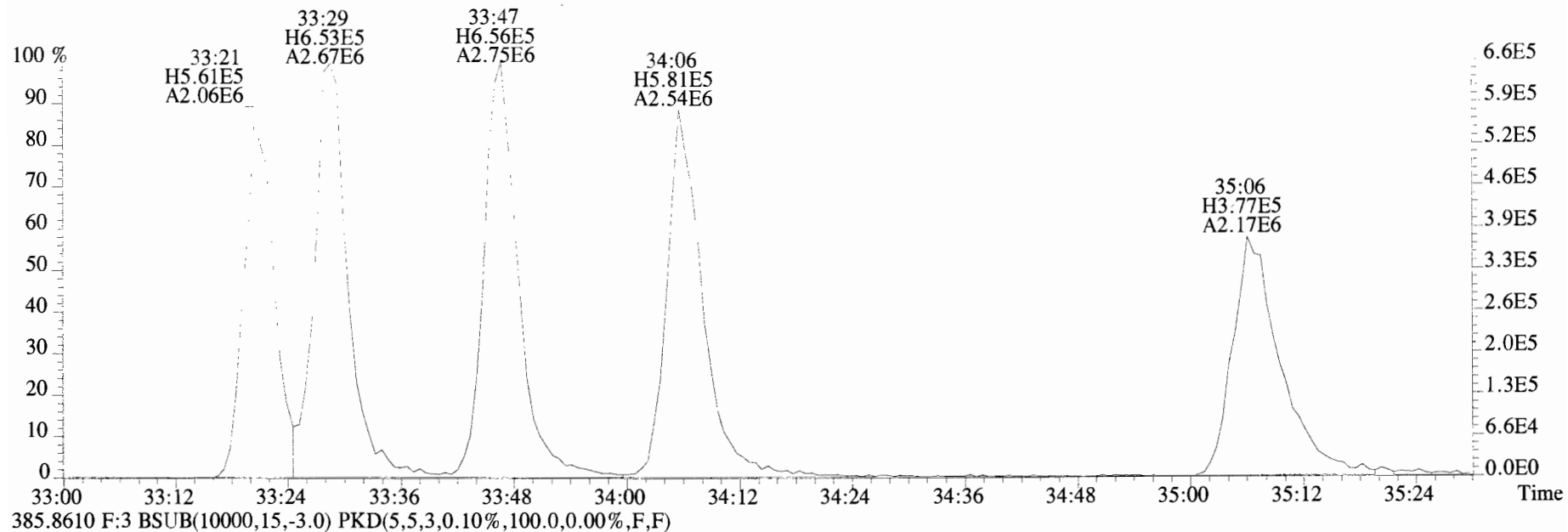
File:191009D1 #1-356 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical_Laboratory_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
373.8207 F:3 BSUB(10000,15,-3.0)



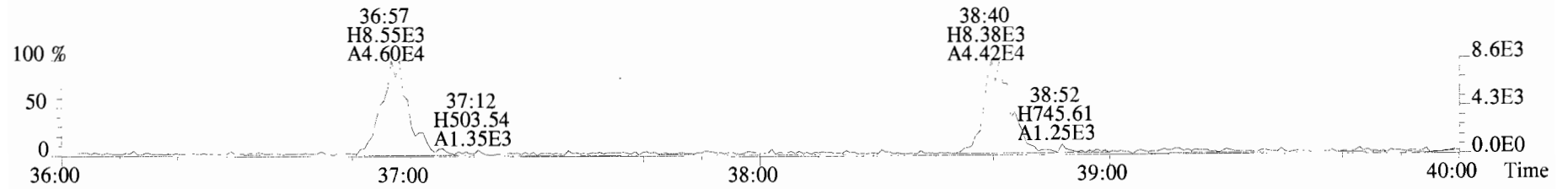
375.8178 F:3 BSUB(10000,15,-3.0)



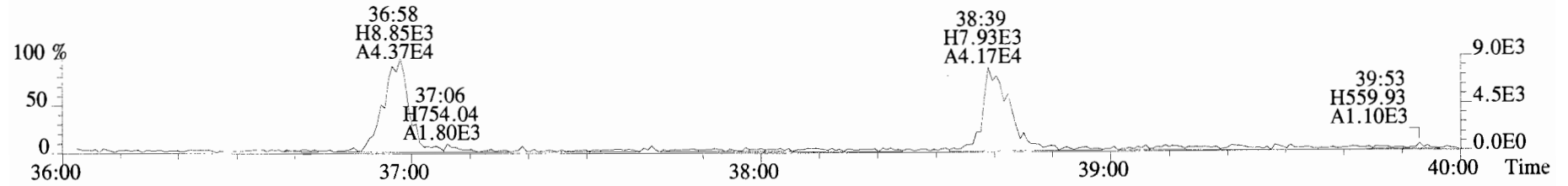
File:191009D1 #1-356 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



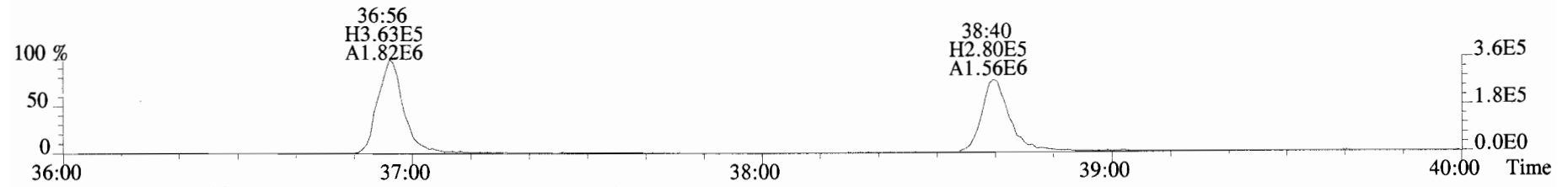
File:191009D1 #1-355 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



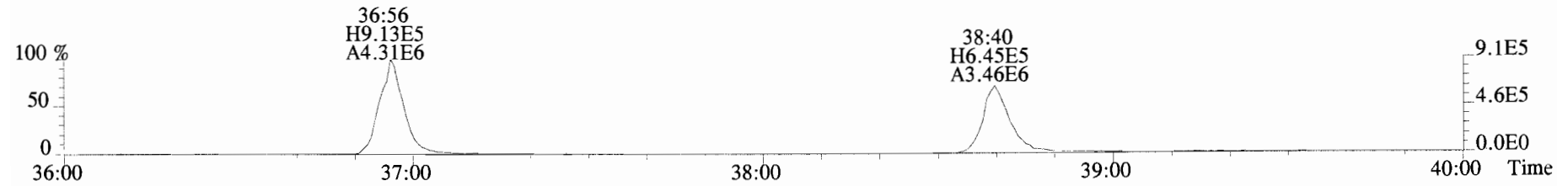
409.7788 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



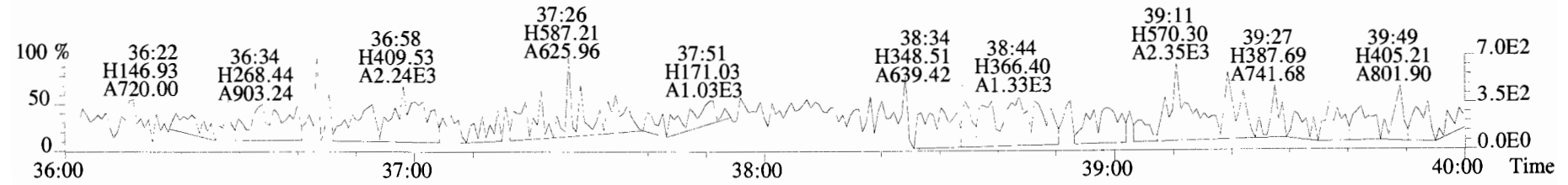
417.8253 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



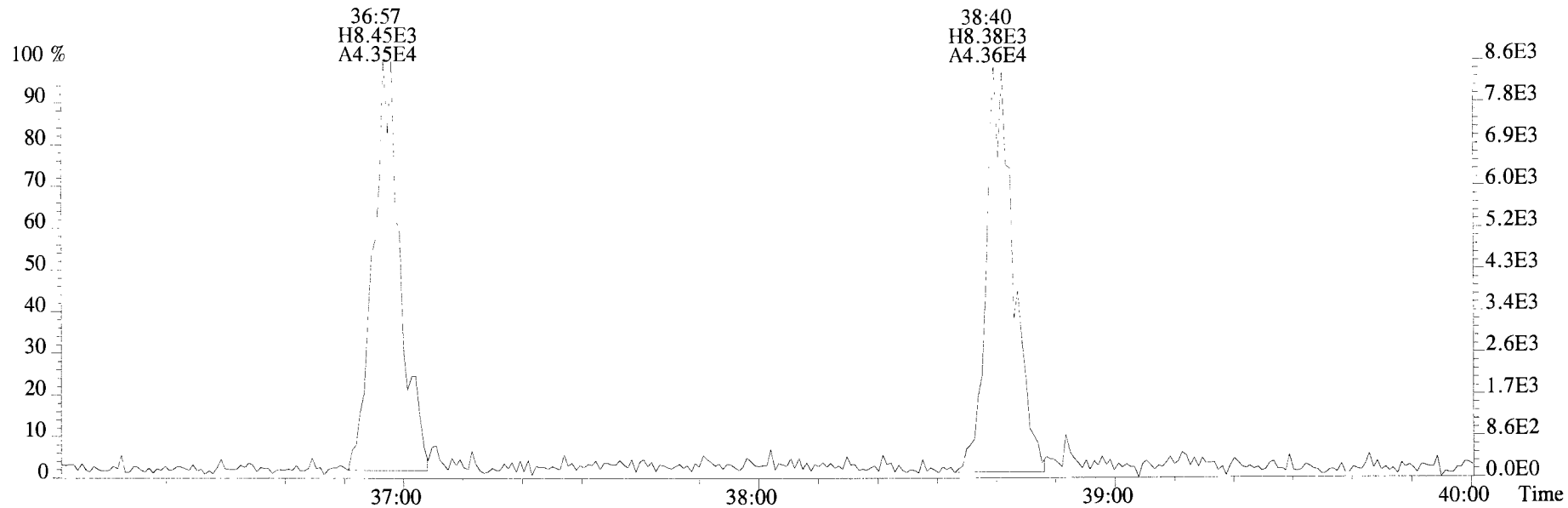
419.8220 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



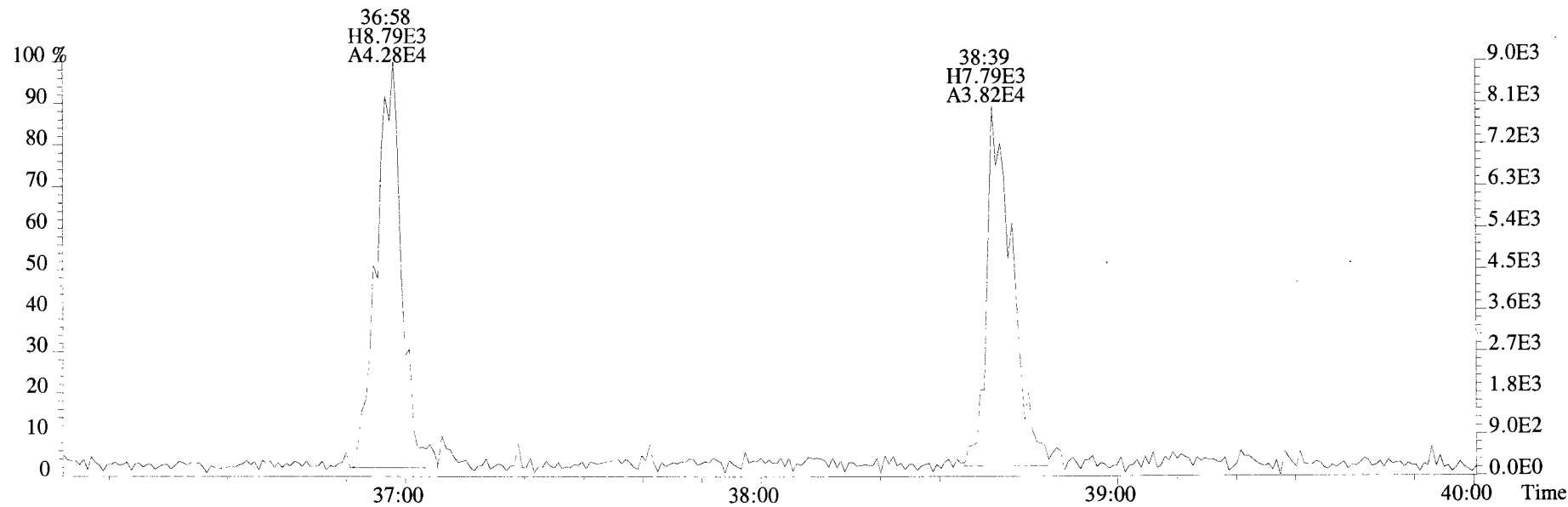
479.7165 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



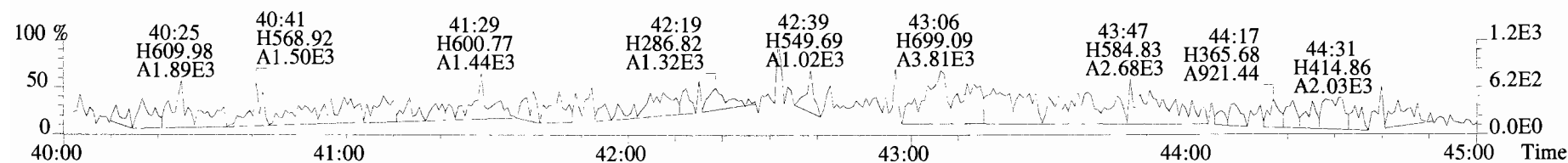
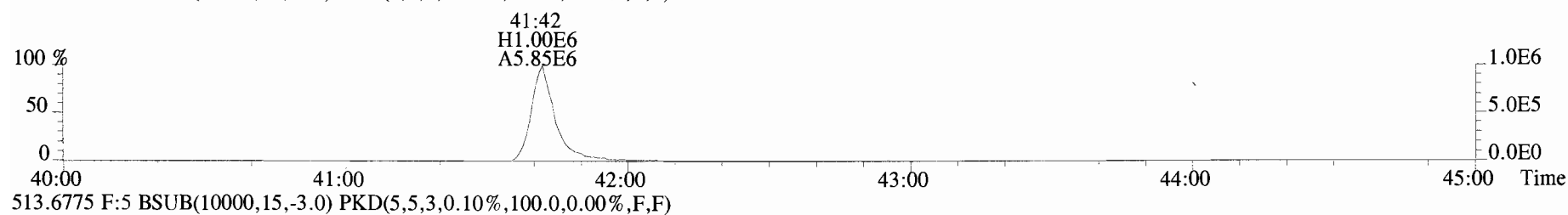
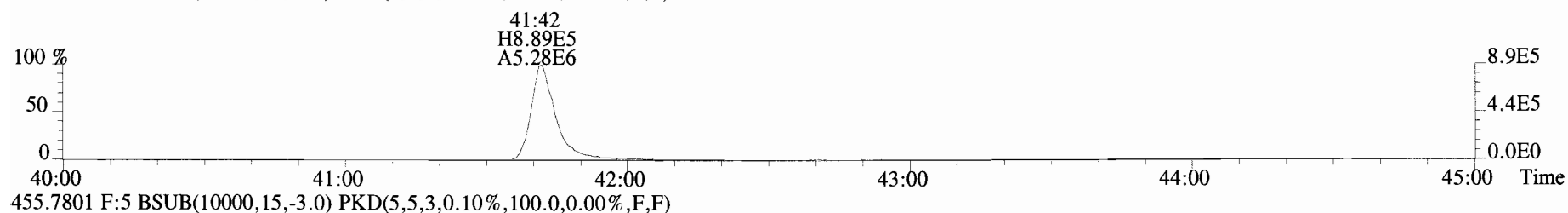
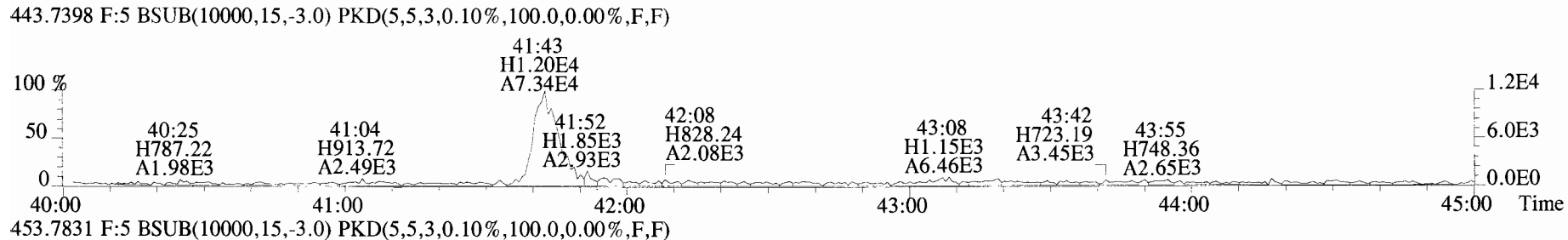
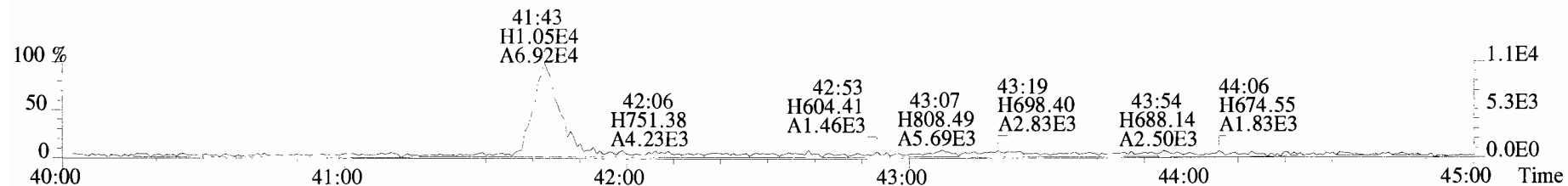
File:191009D1 #1-355 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



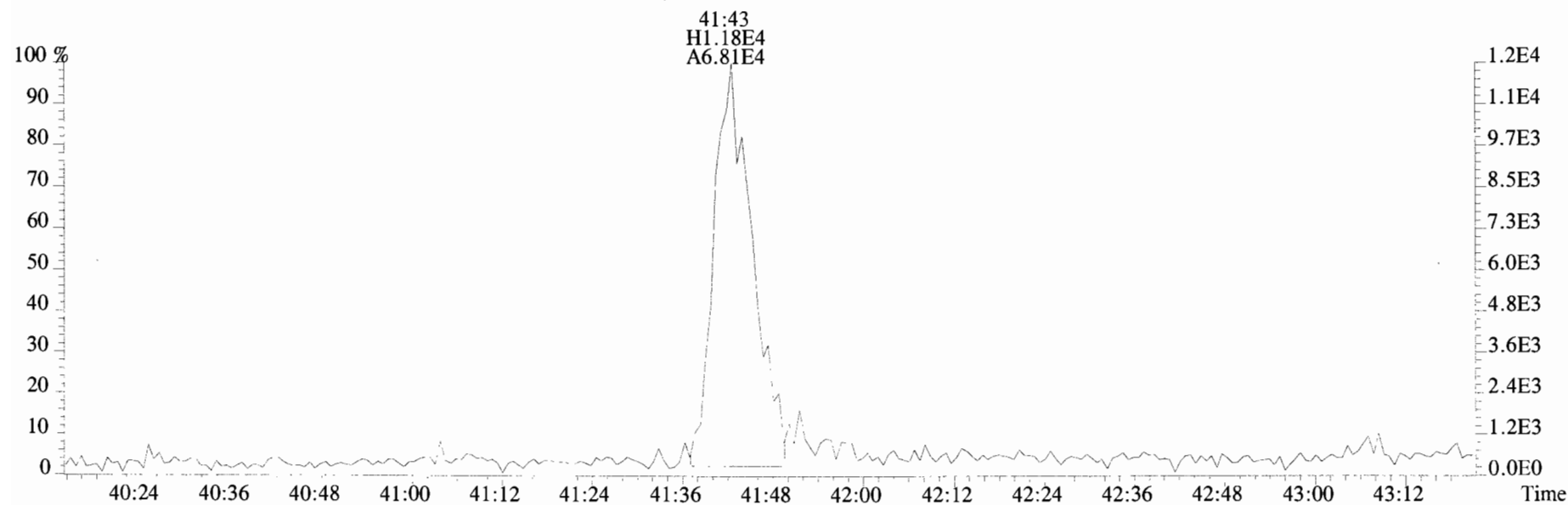
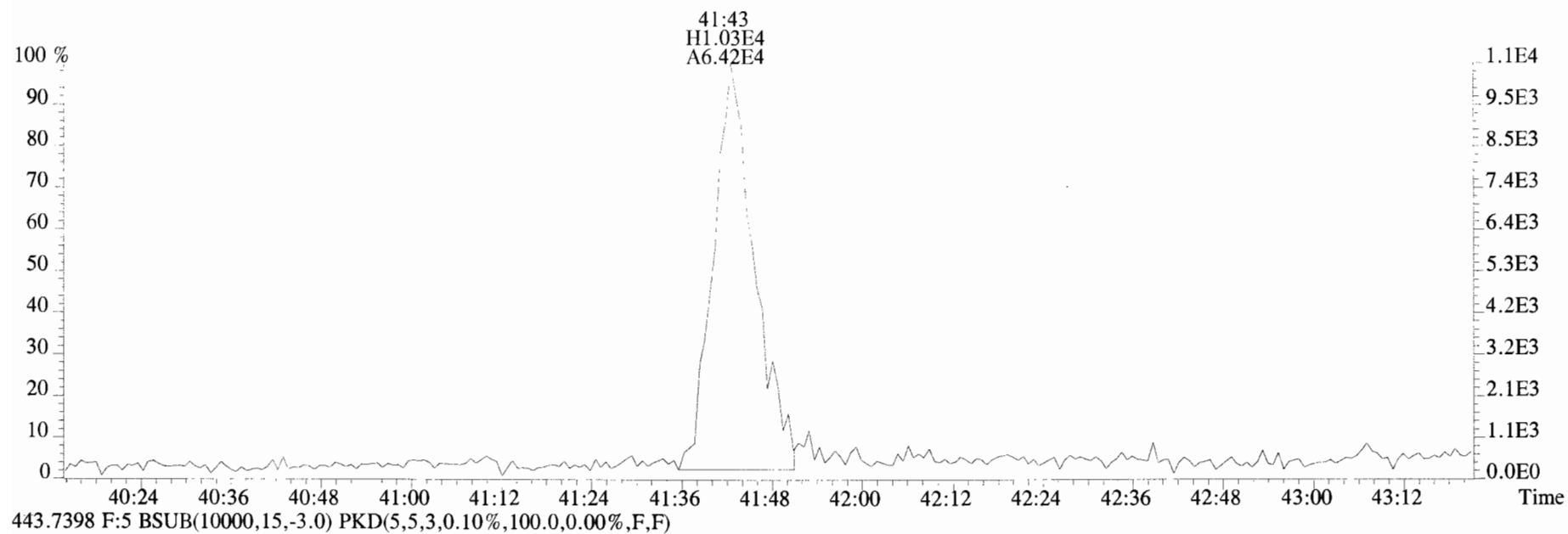
409.7788 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



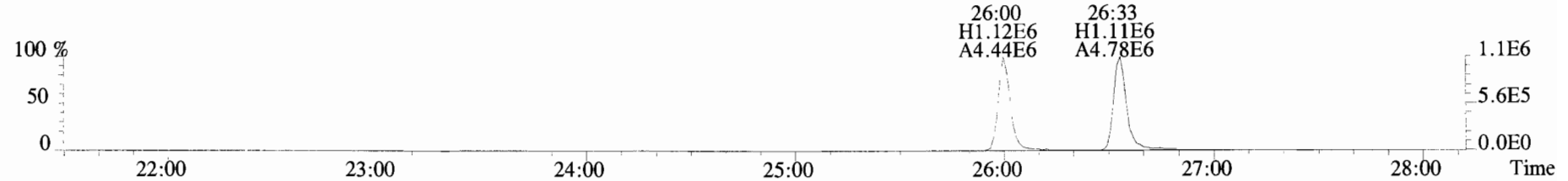
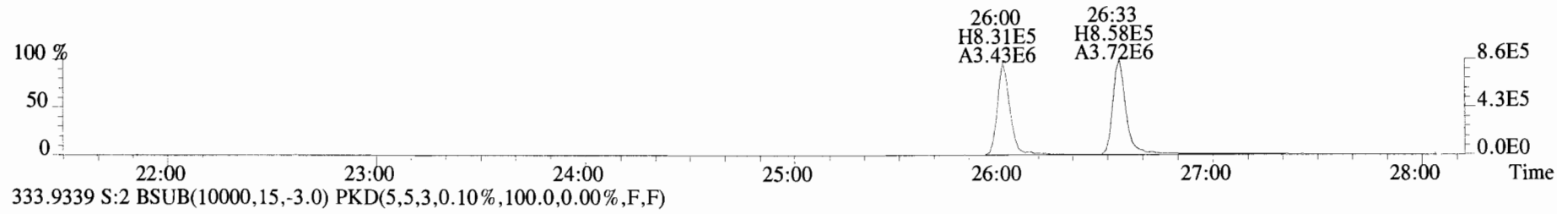
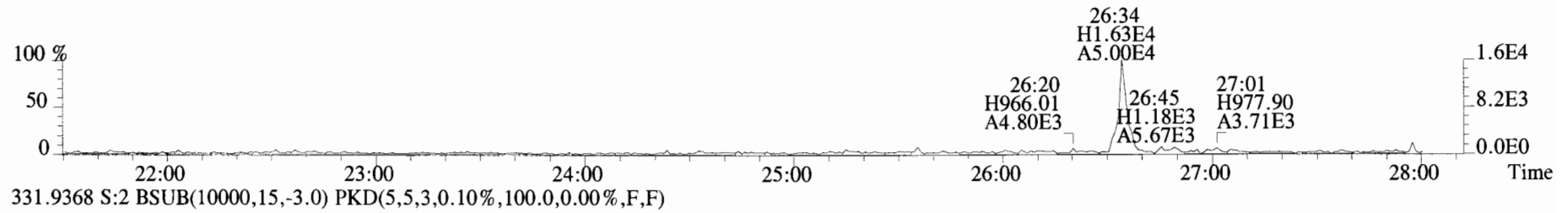
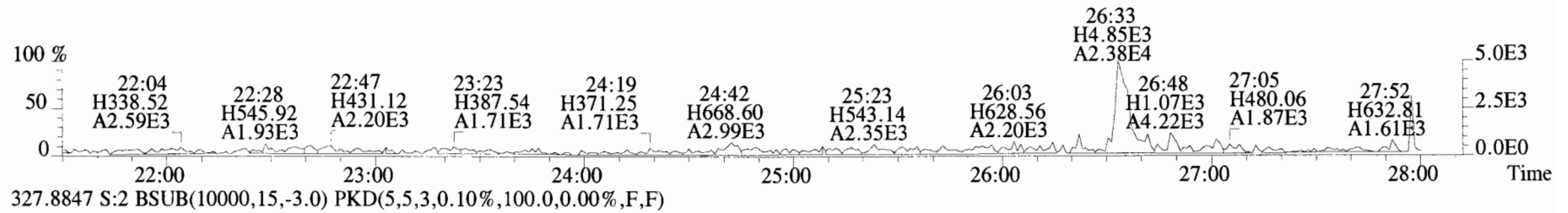
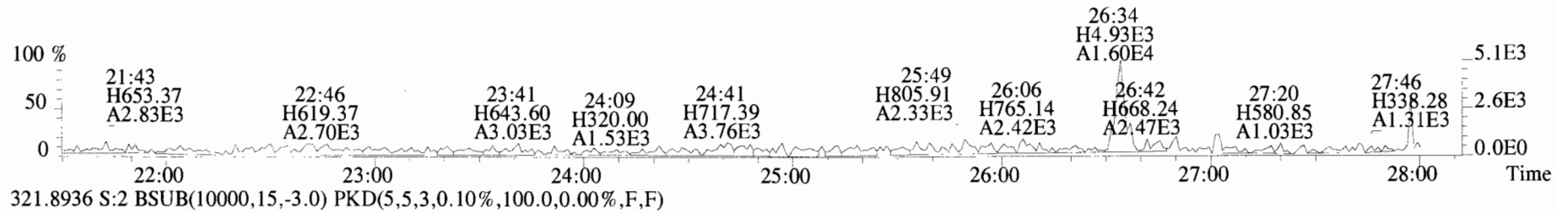
File:191009D1 #1-432 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



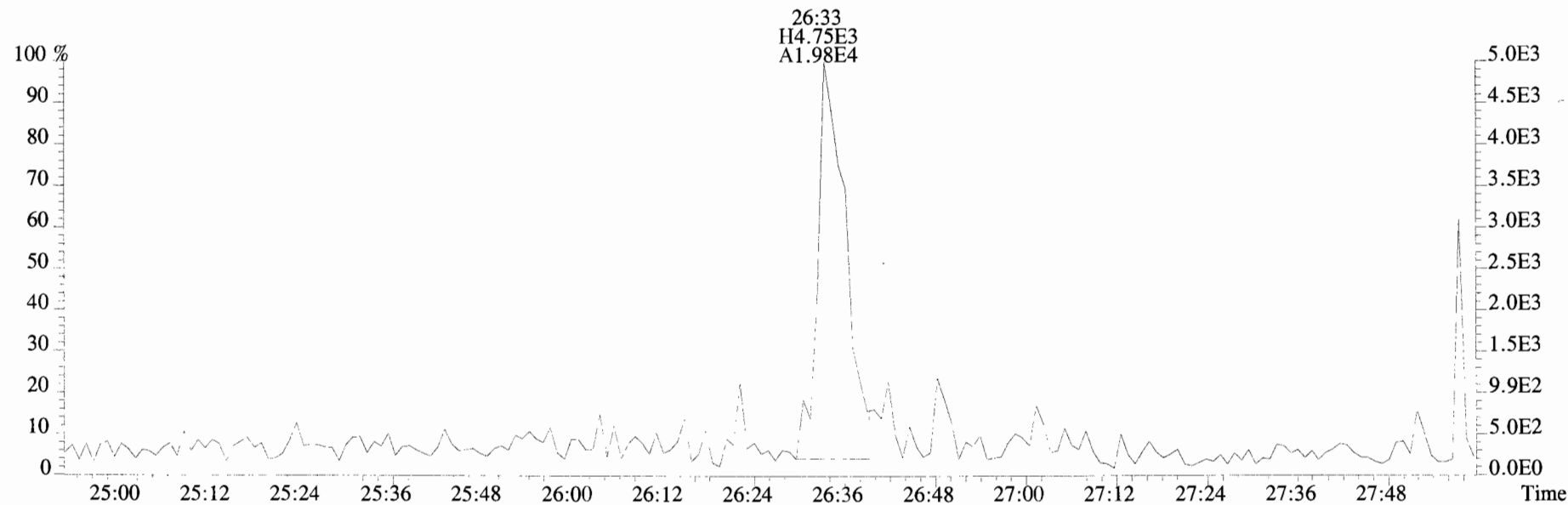
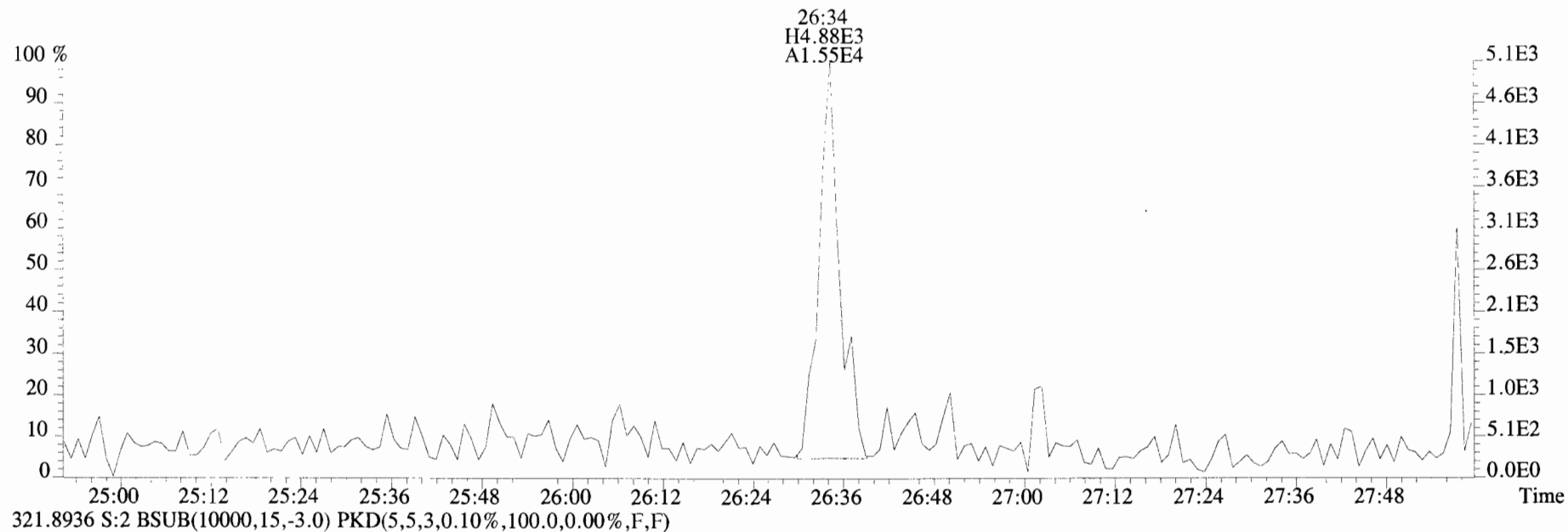
File:191009D1 #1-432 Acq: 9-OCT-2019 16:13:04 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-1 1613 CS0 19C2201 Exp:OCDD_DB5
441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



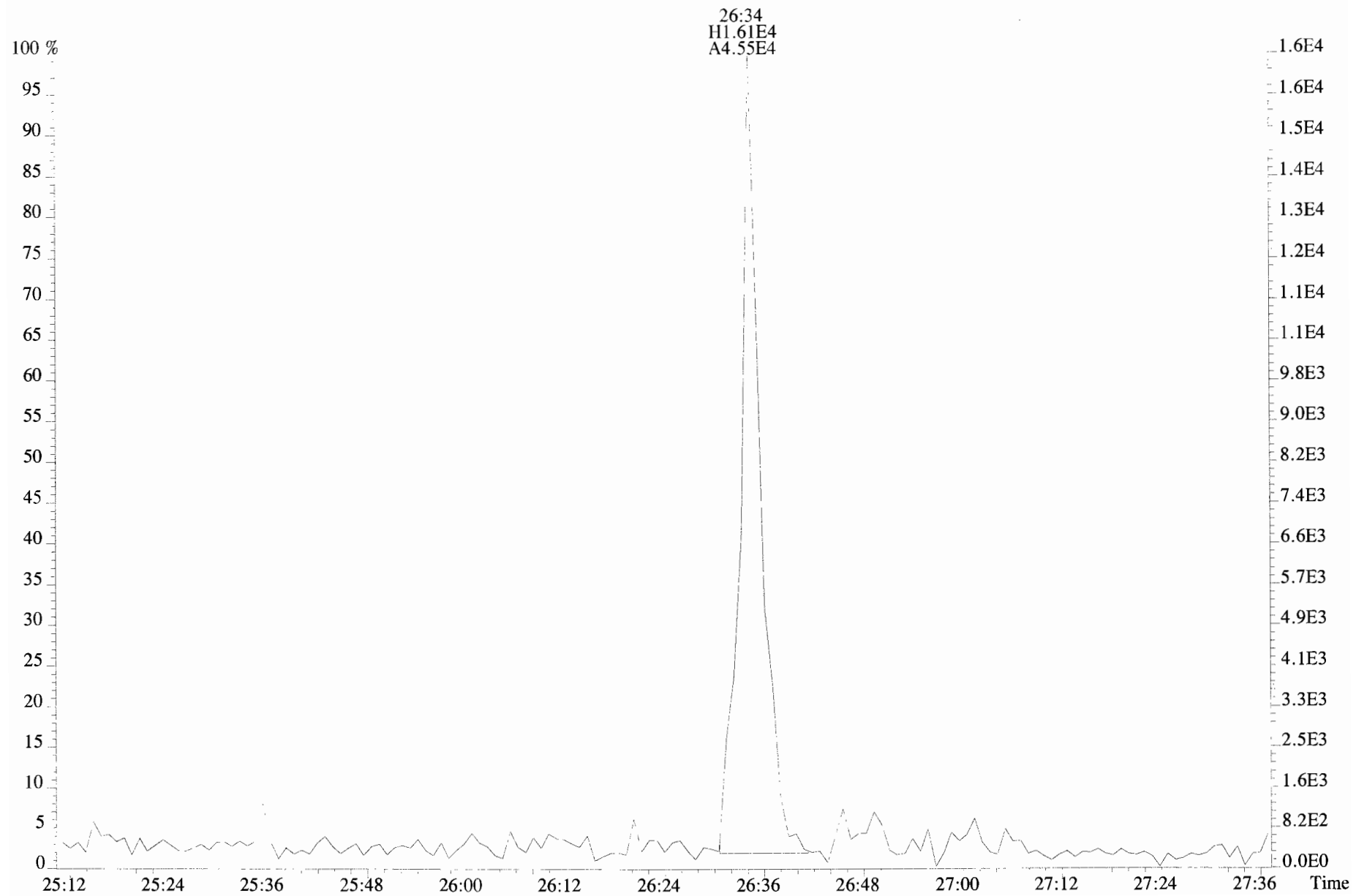
File:191009D1 #1-513 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
319.8965 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



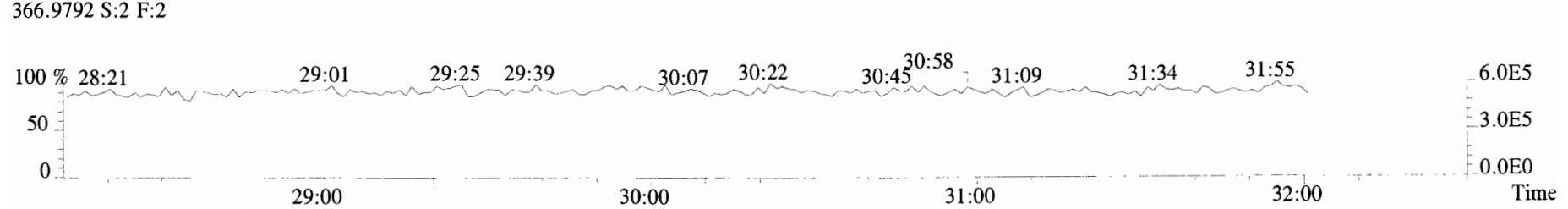
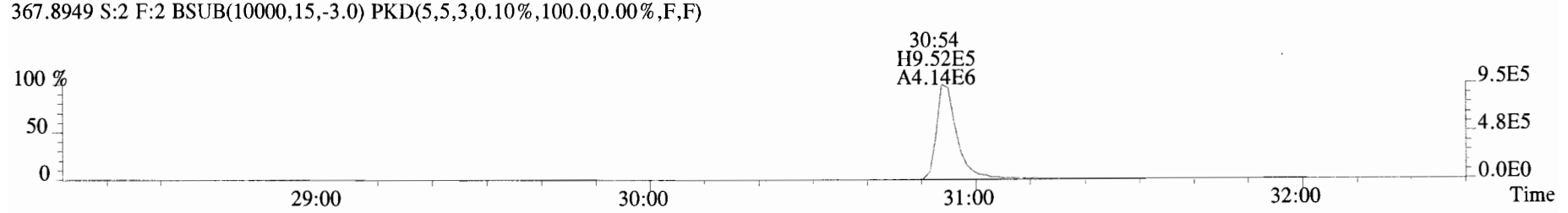
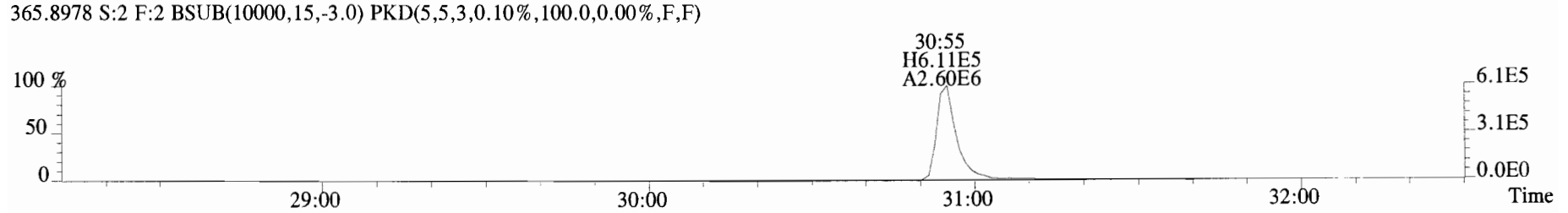
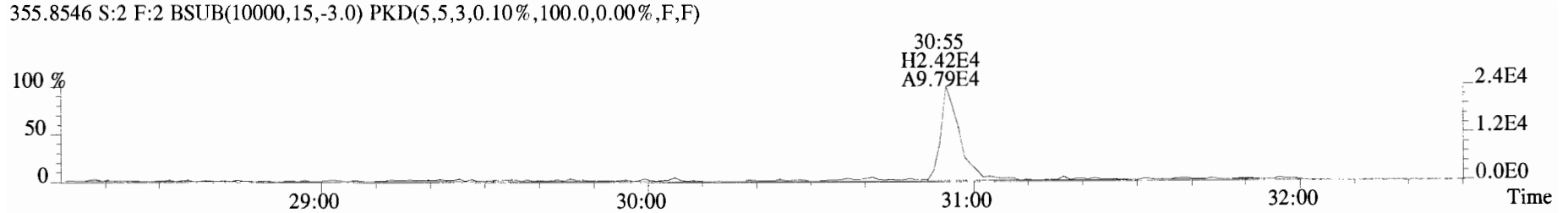
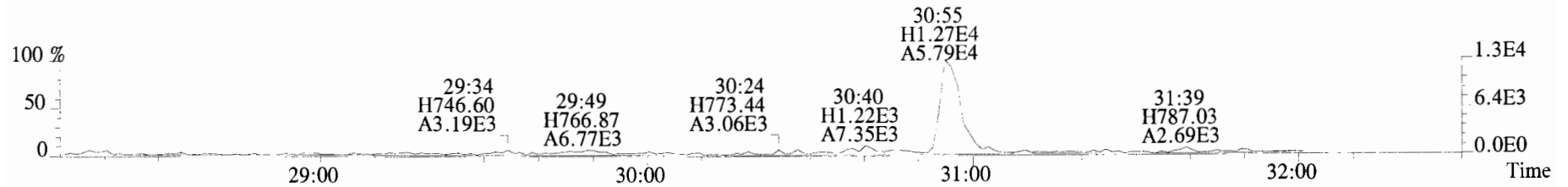
File:191009D1 #1-513 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
319.8965 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



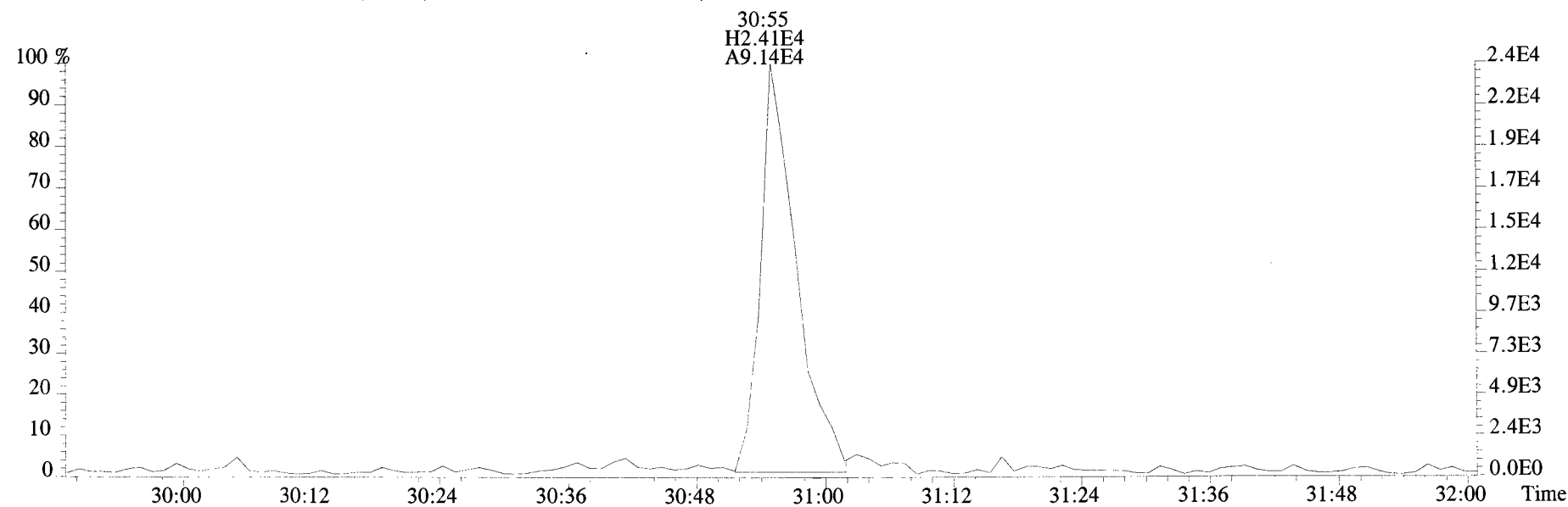
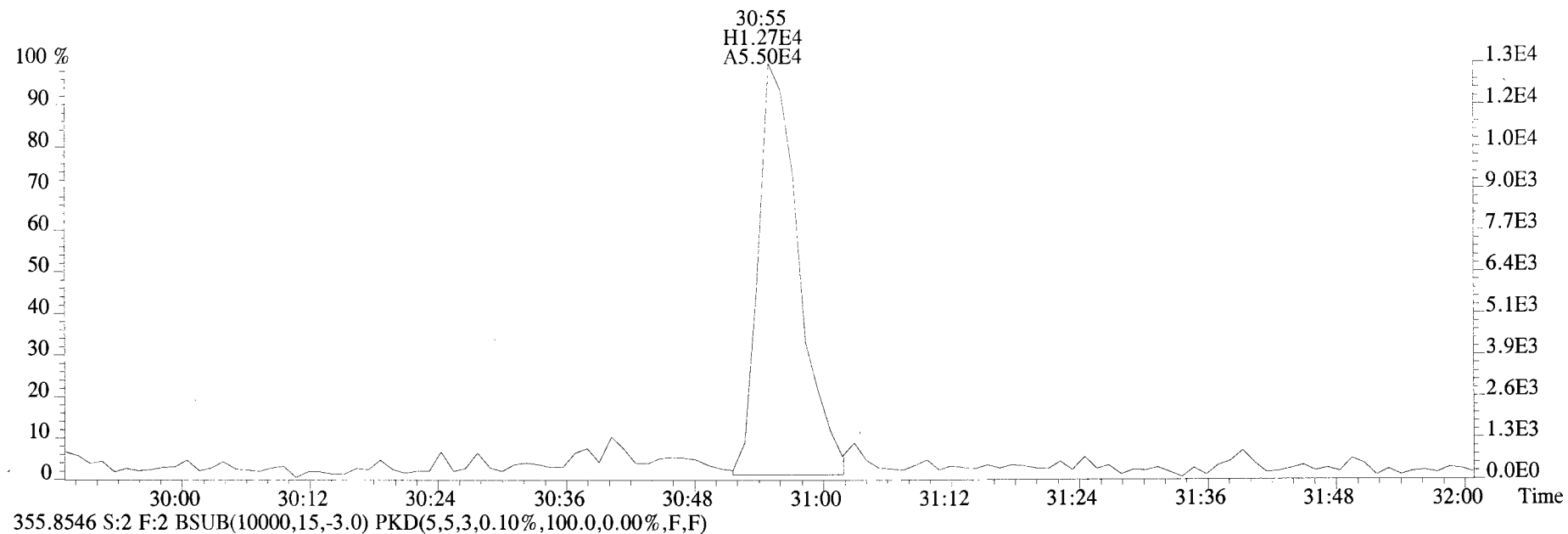
File:191009D1 #1-513 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
327.8847 S:2 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



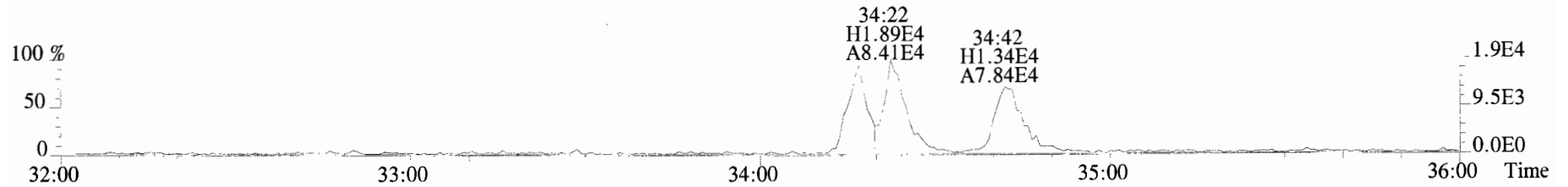
File:191009D1 #1-211 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text: Vista Analytical Laboratory_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
353.8576 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



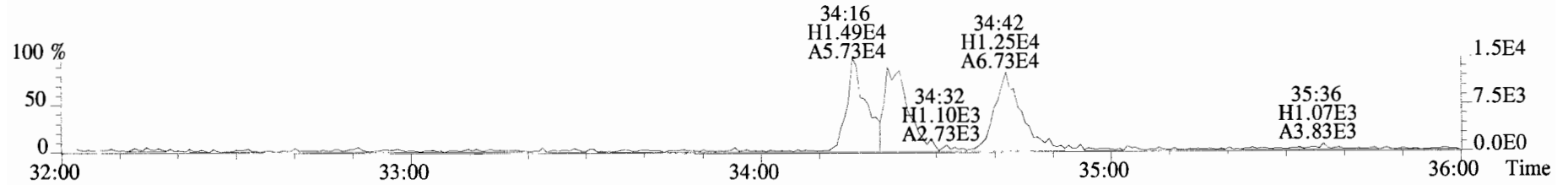
File:191009D1 #1-211 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
353.8576 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



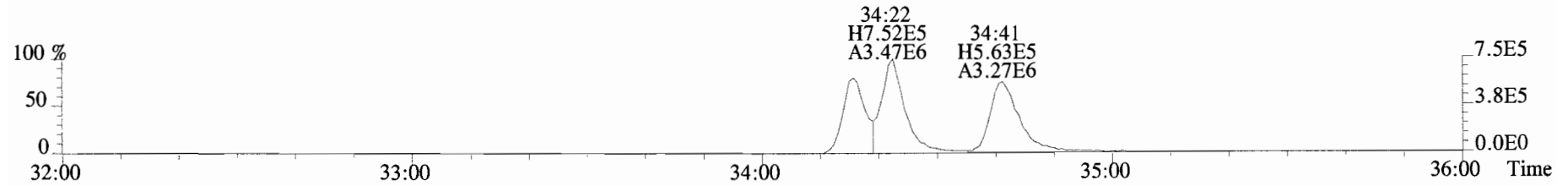
File:191009D1 #1-355 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
389.8156 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



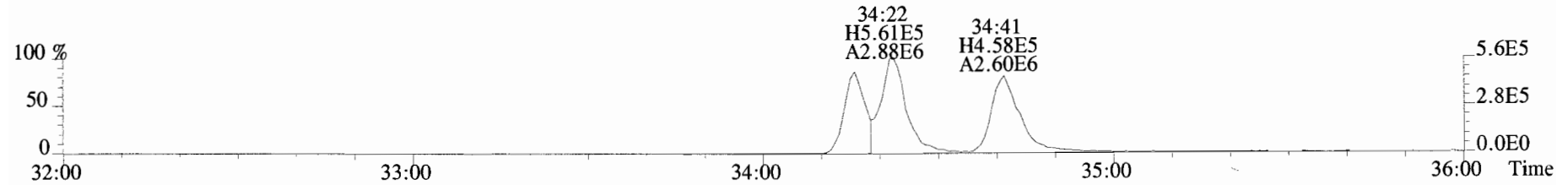
391.8127 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



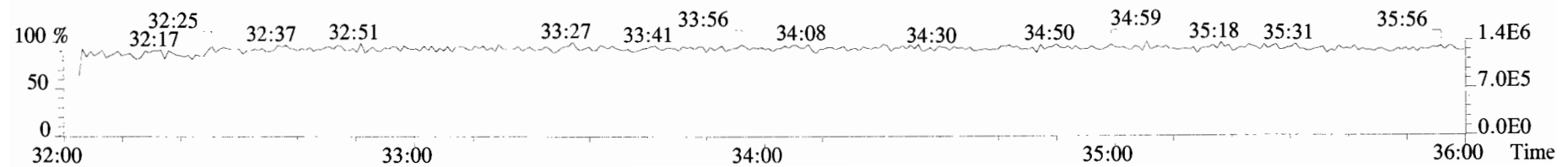
401.8559 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



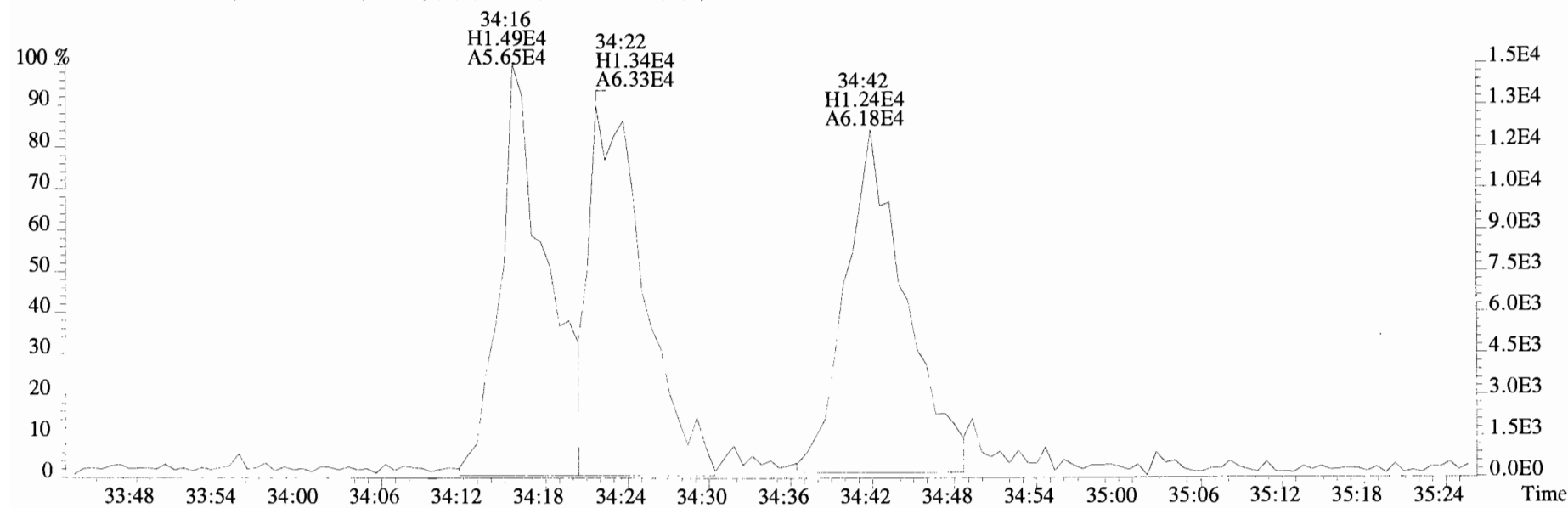
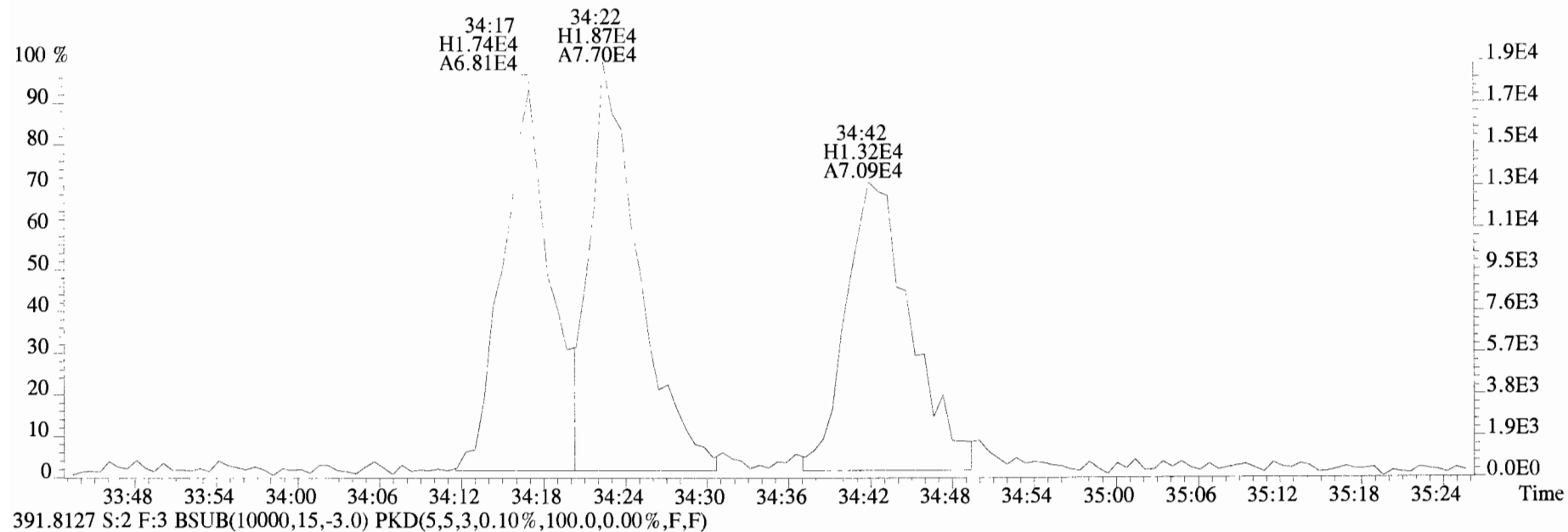
403.8530 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



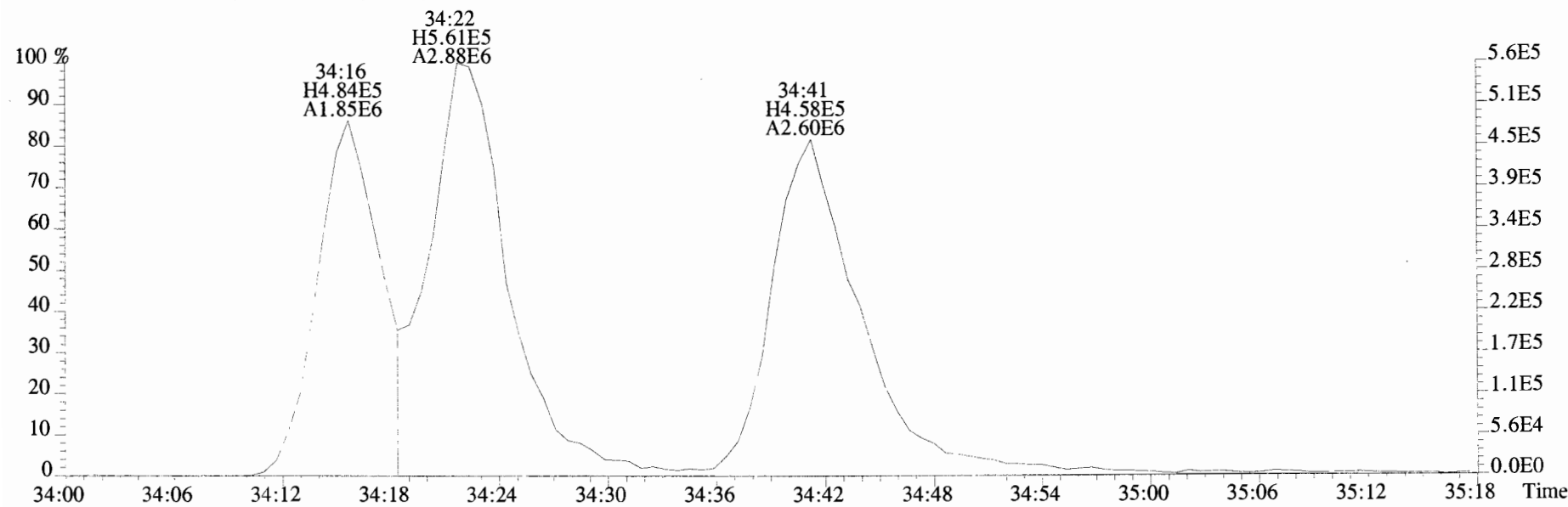
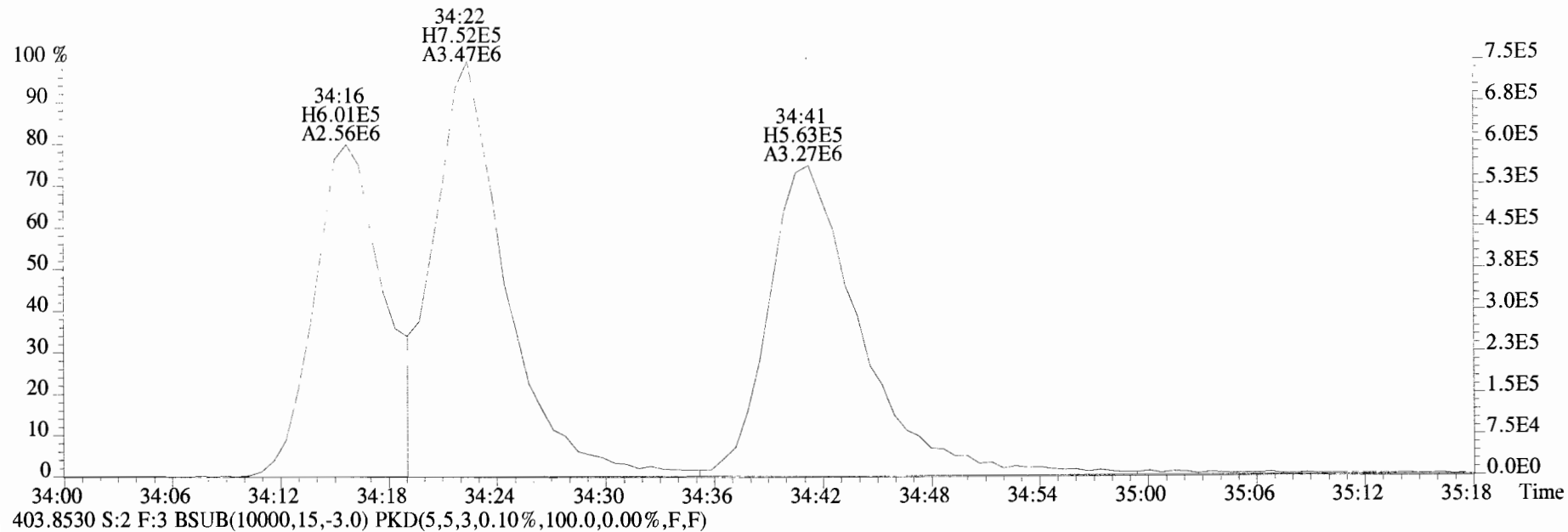
392.9760 S:2 F:3



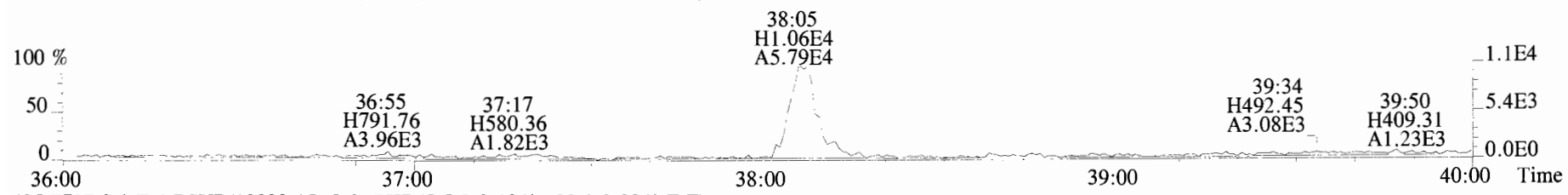
File:191009D1 #1-355 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
389.8156 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



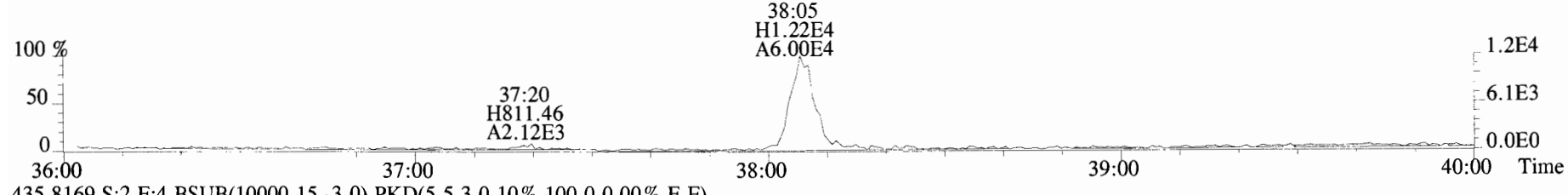
File:191009D1 #1-355 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
401.8559 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



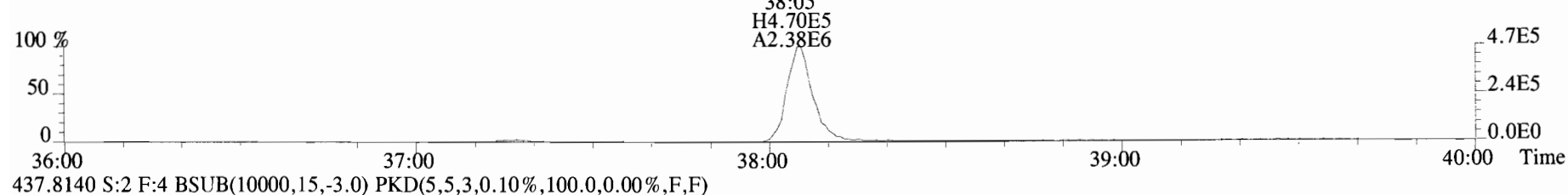
File:191009D1 #1-355 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
423.7767 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



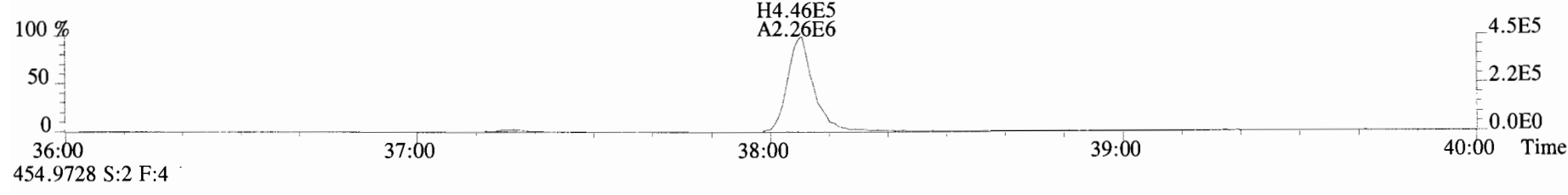
425.7737 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



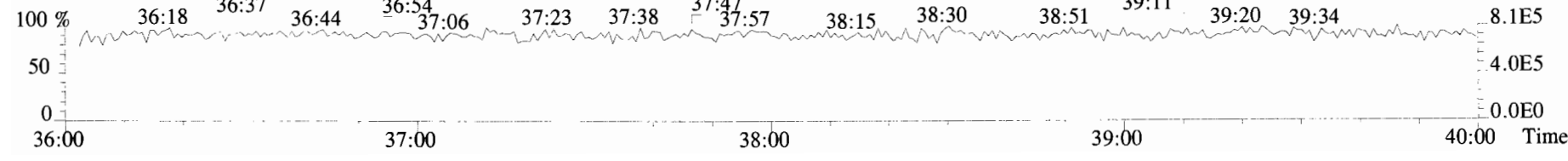
435.8169 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



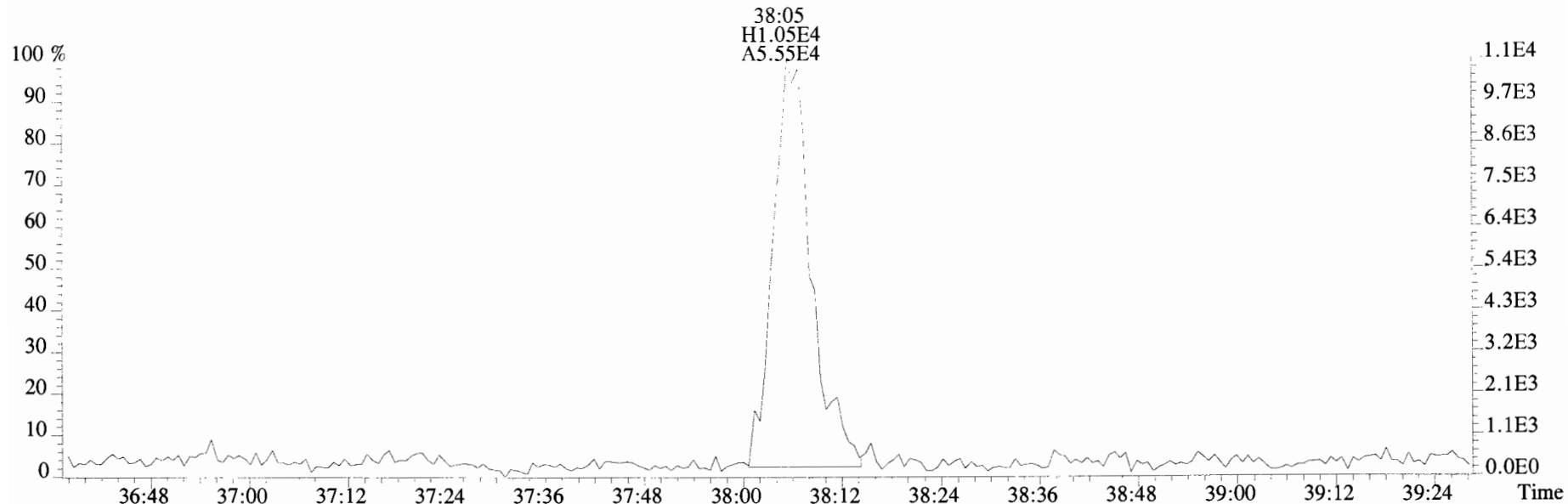
437.8140 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



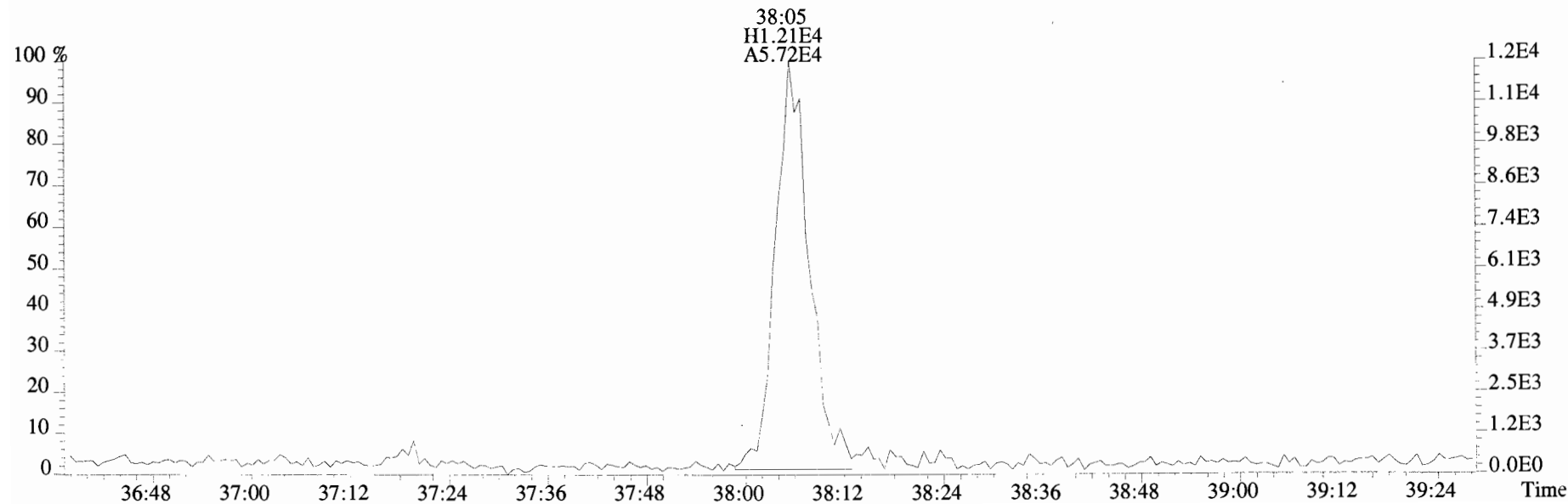
454.9728 S:2 F:4



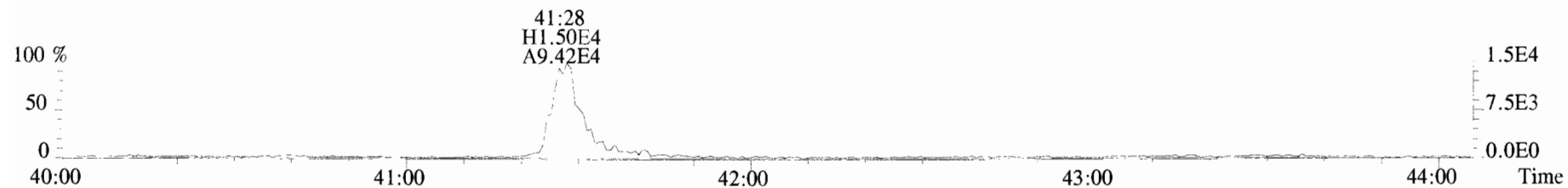
File:191009D1 #1-355 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
423.7767 S:2 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



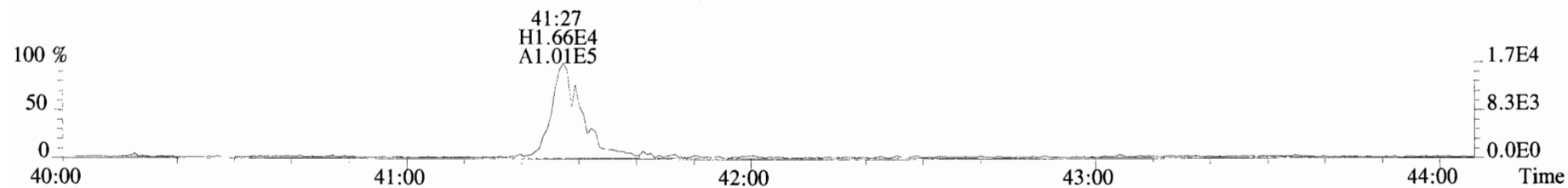
425.7737 S:2 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



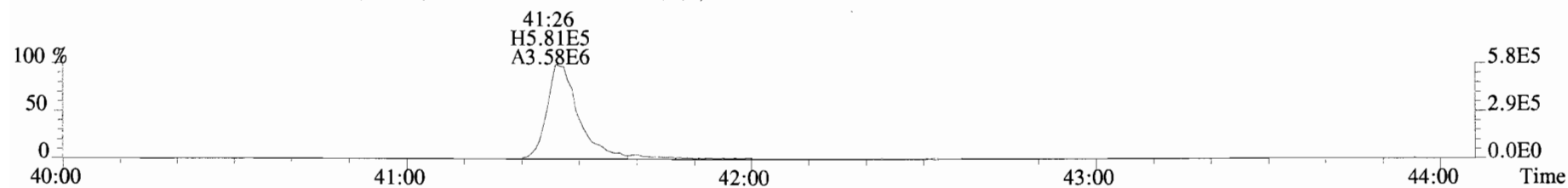
File:191009D1 #1-432 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
457.7377 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



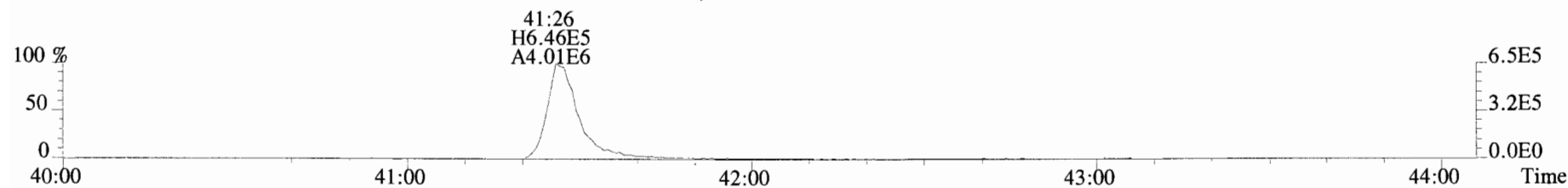
459.7348 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



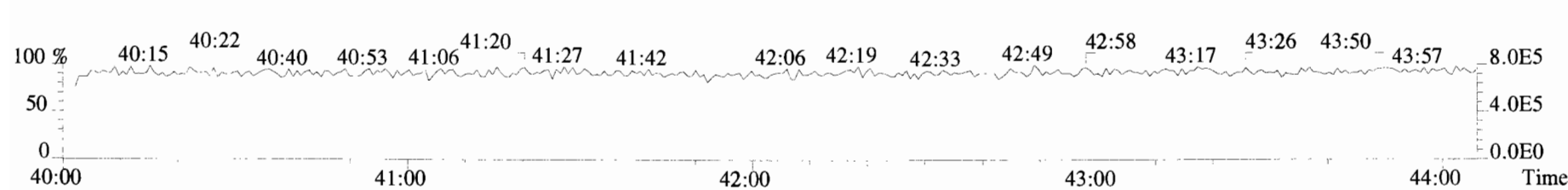
469.7780 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



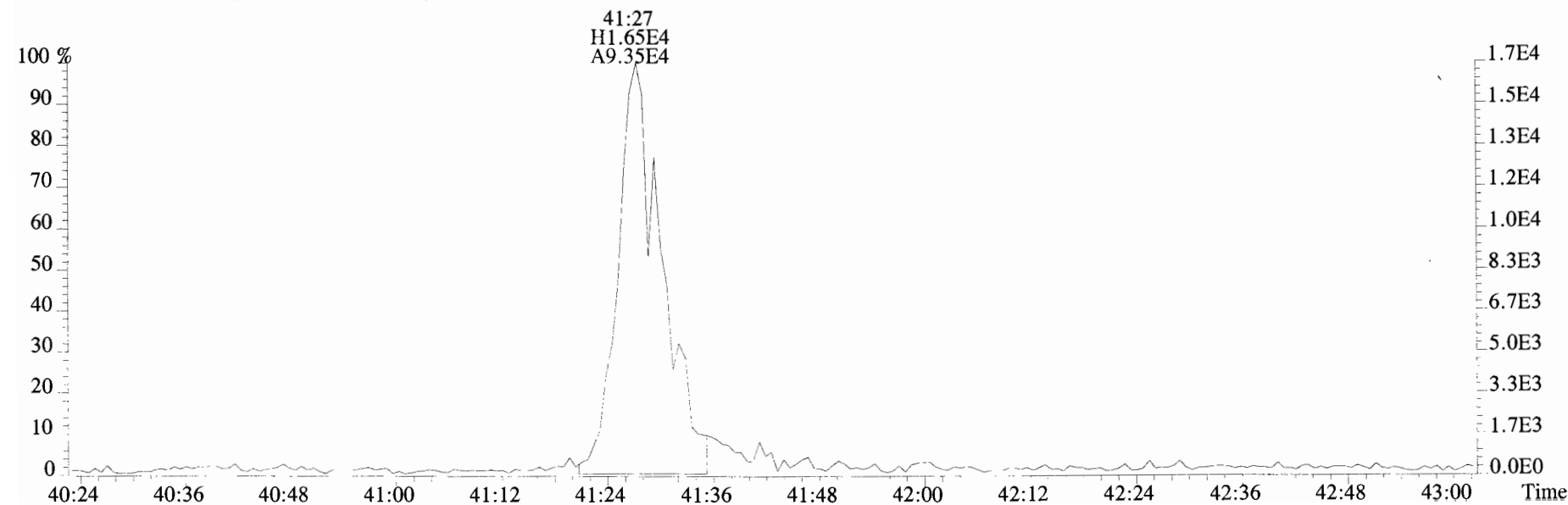
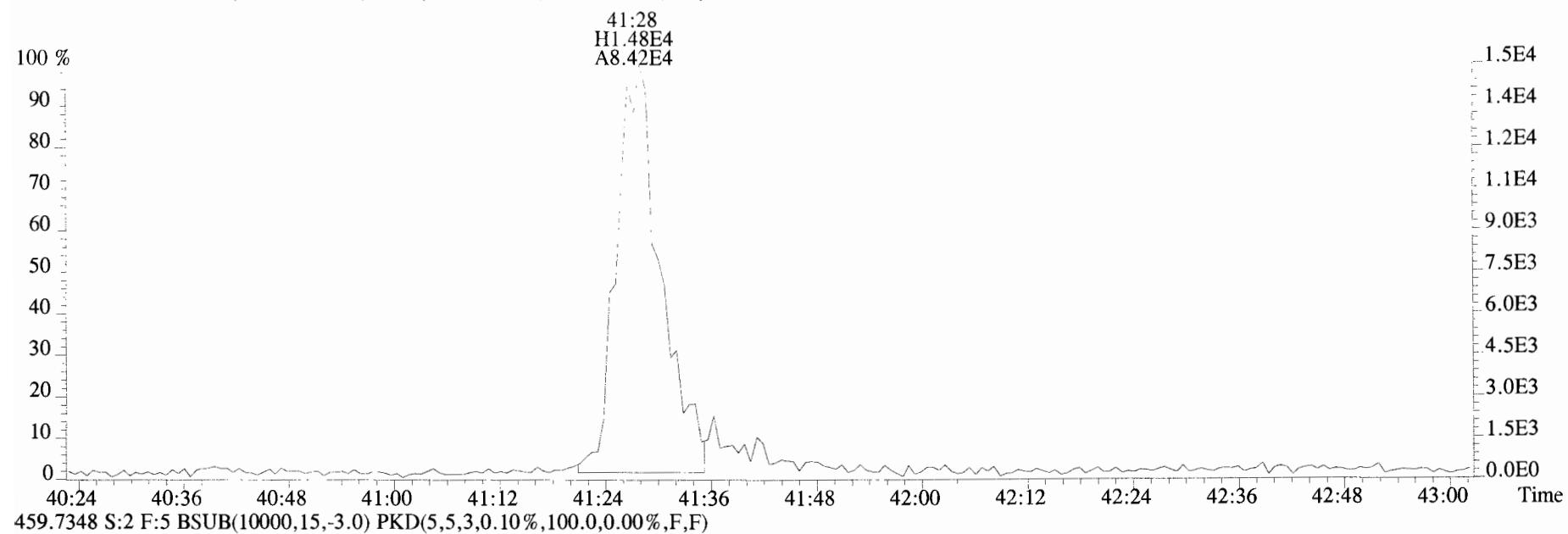
471.7750 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



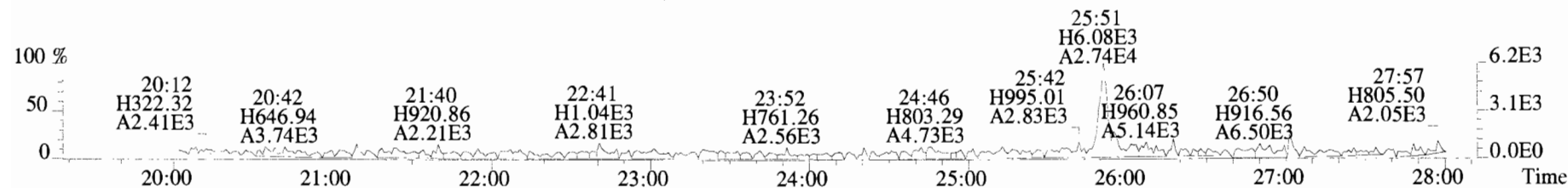
454.9728 S:2 F:5



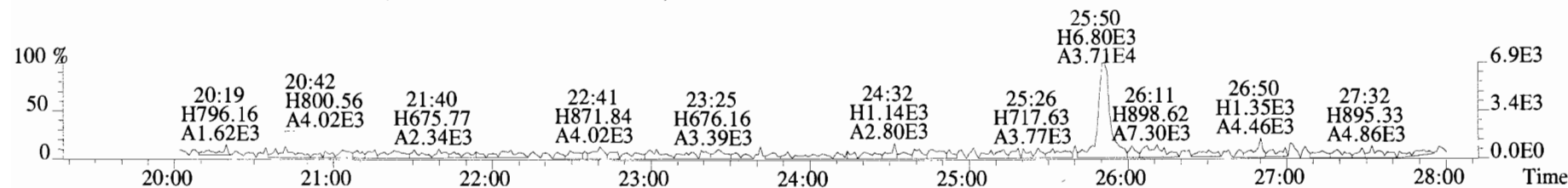
File:191009D1 #1-432 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
457.7377 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



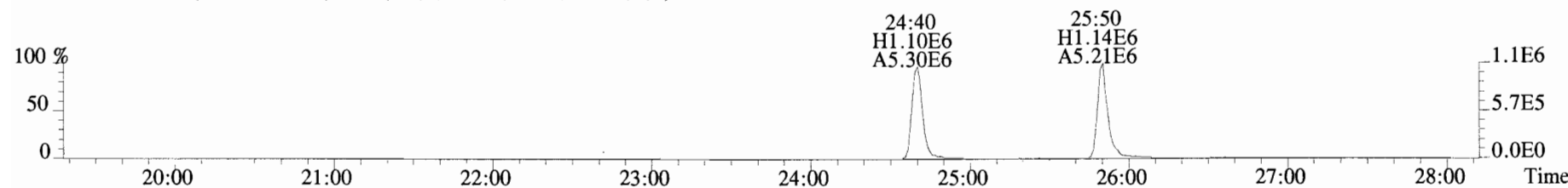
File:191009D1 #1-513 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
 303.9016 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



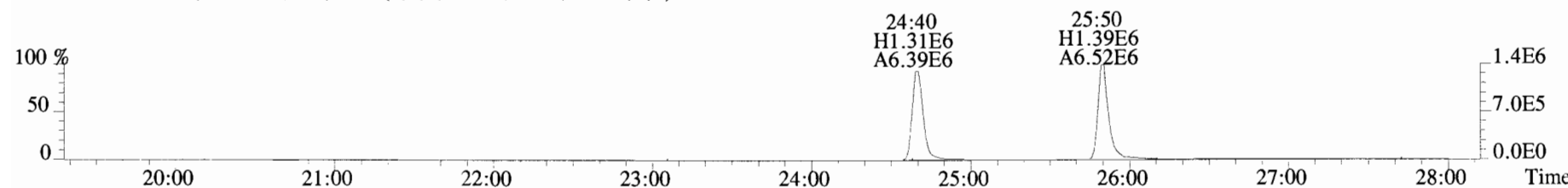
305.8987 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



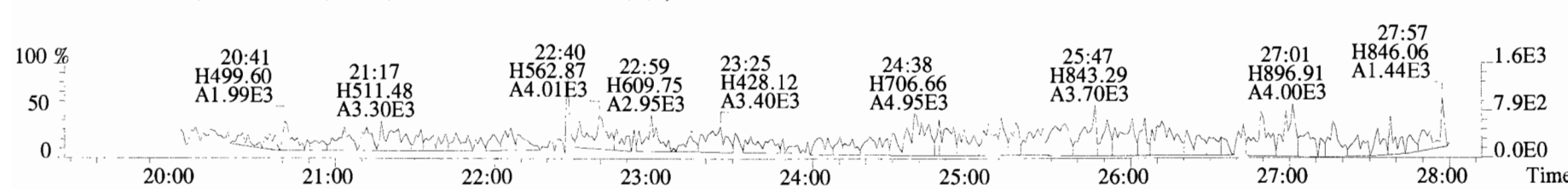
315.9419 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



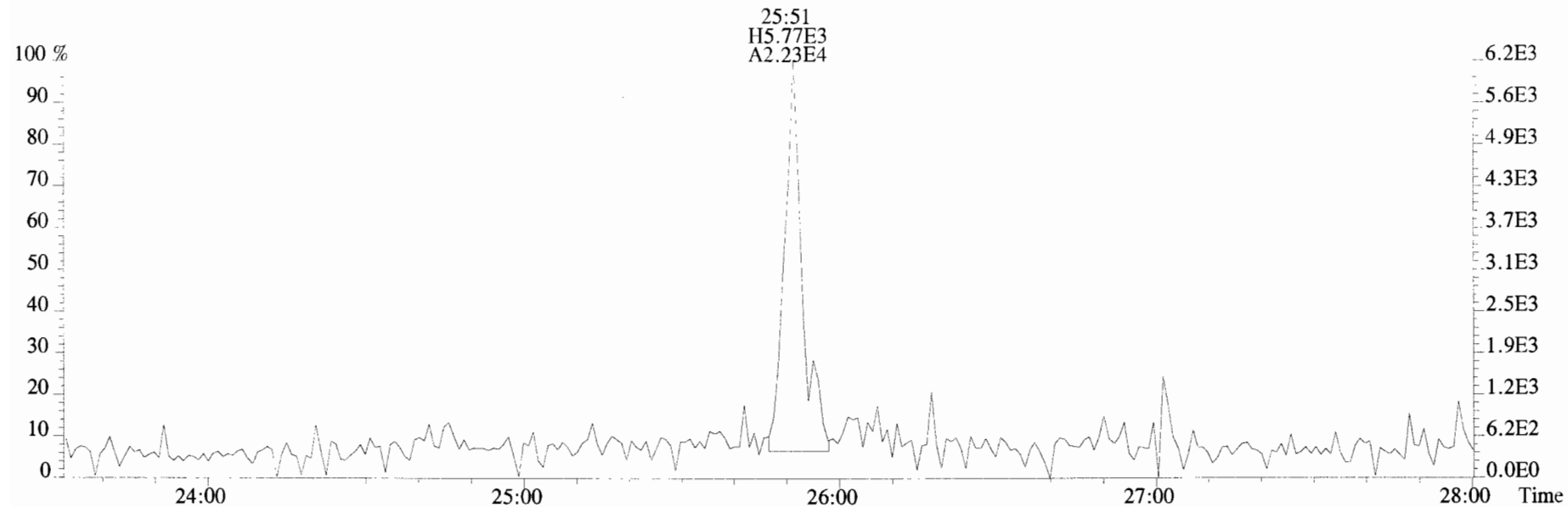
317.9389 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



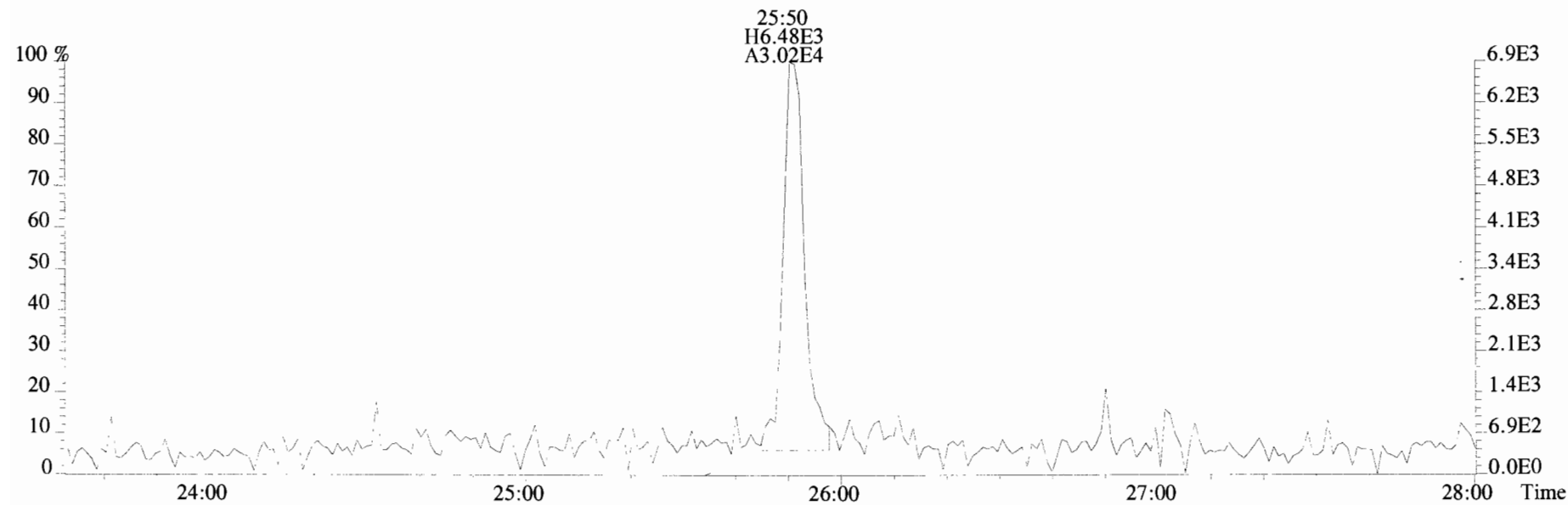
375.8364 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



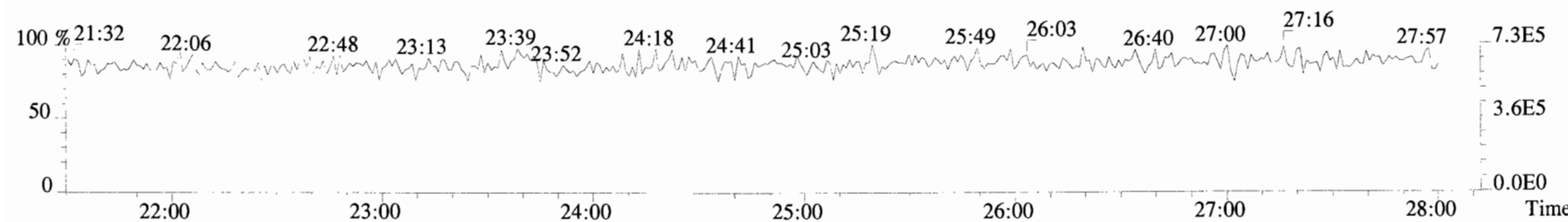
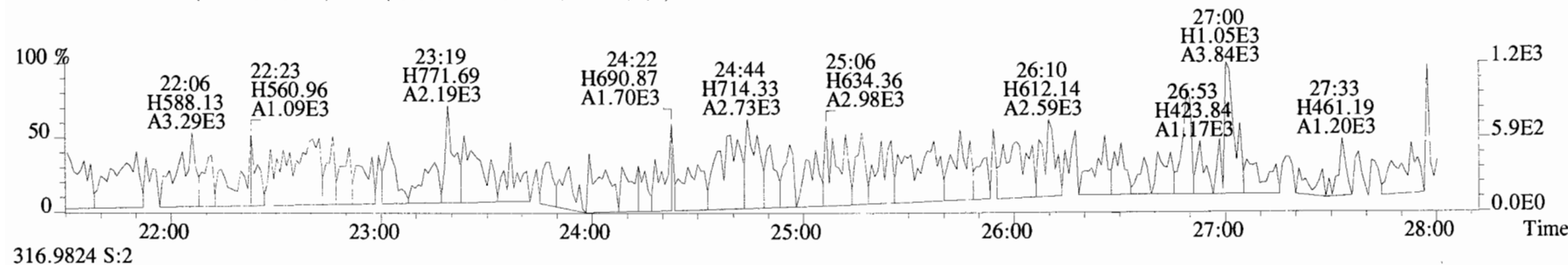
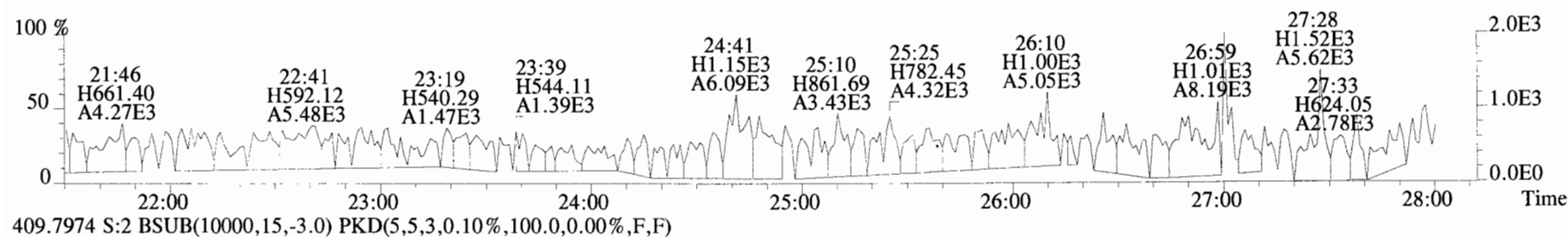
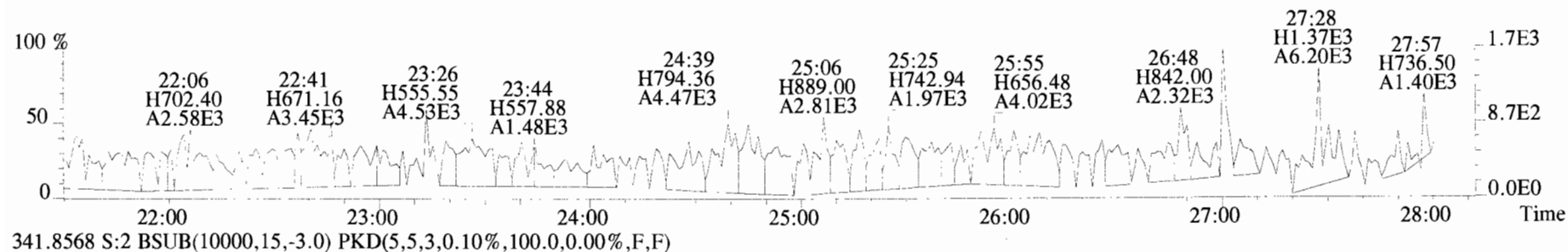
File:191009D1 #1-513 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
303.9016 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



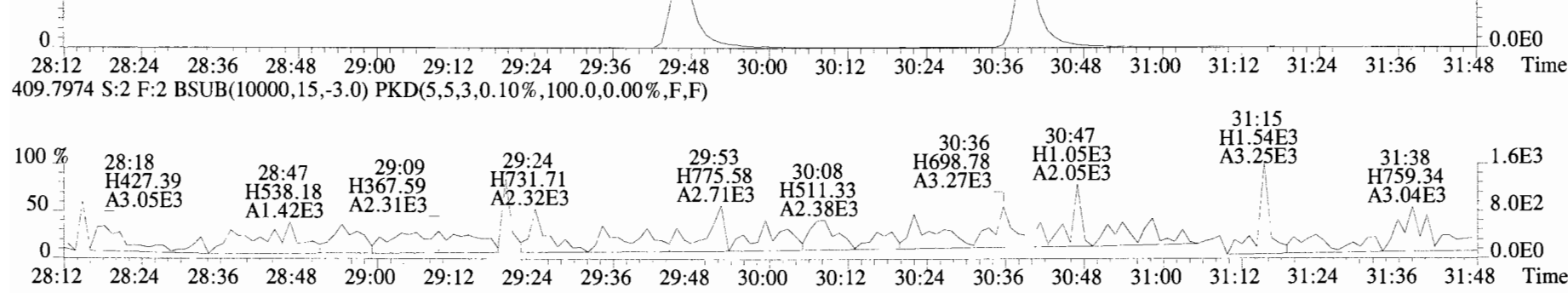
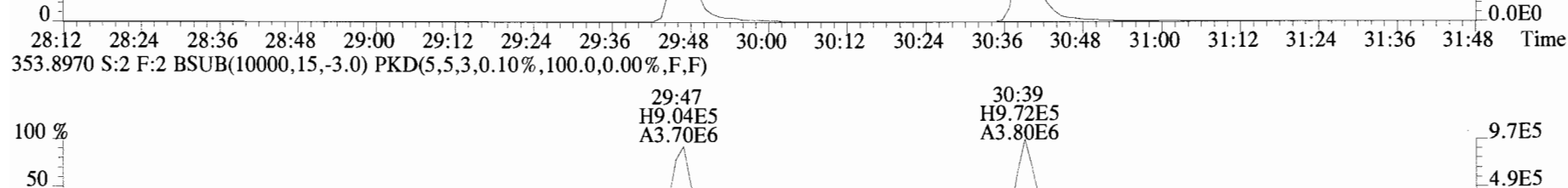
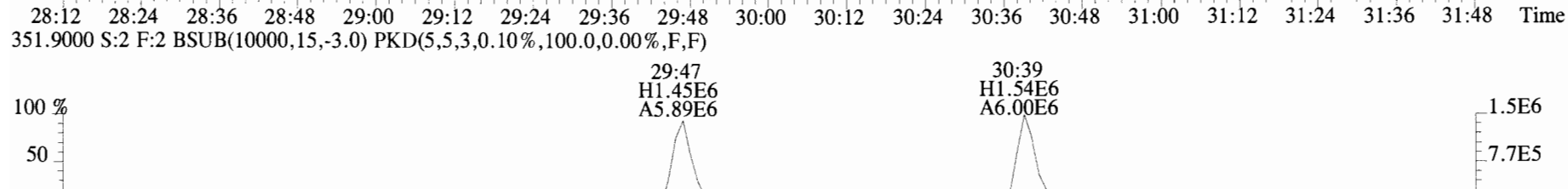
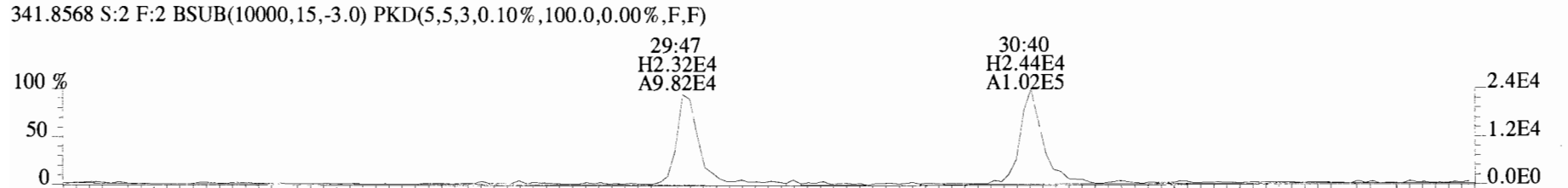
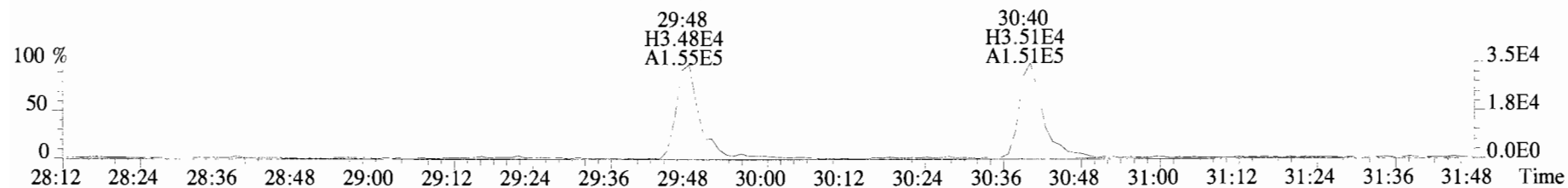
305.8987 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



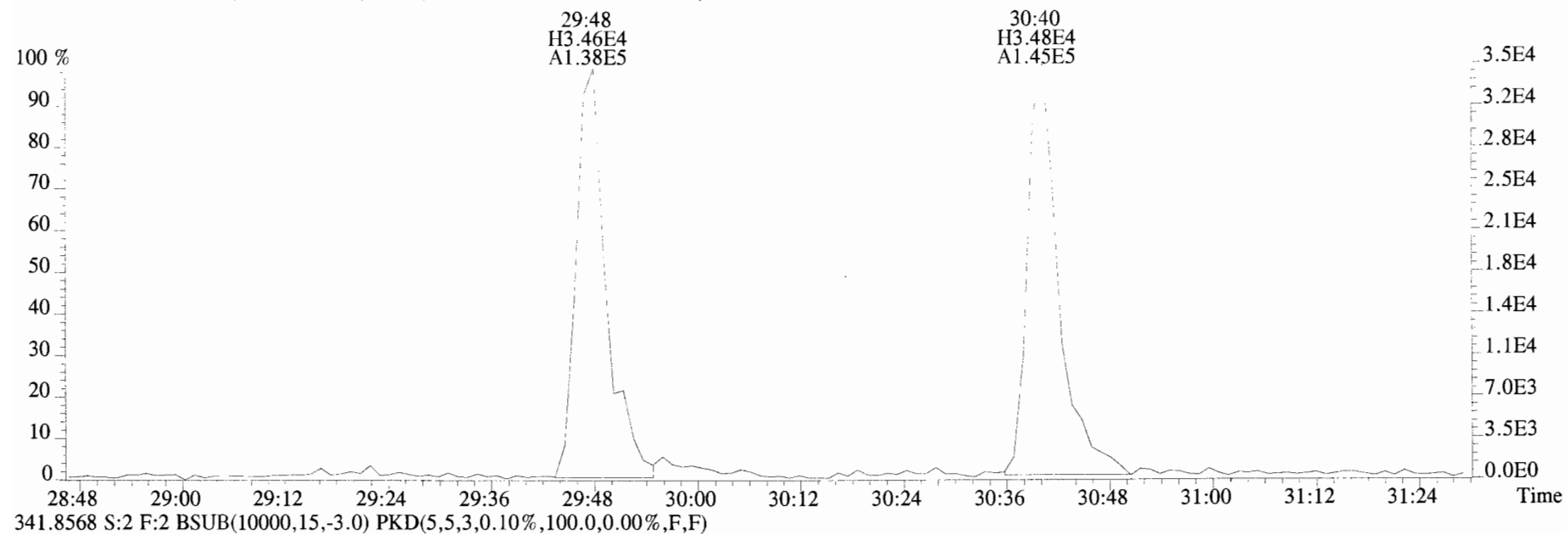
File:191009D1 #1-513 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
 339.8597 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



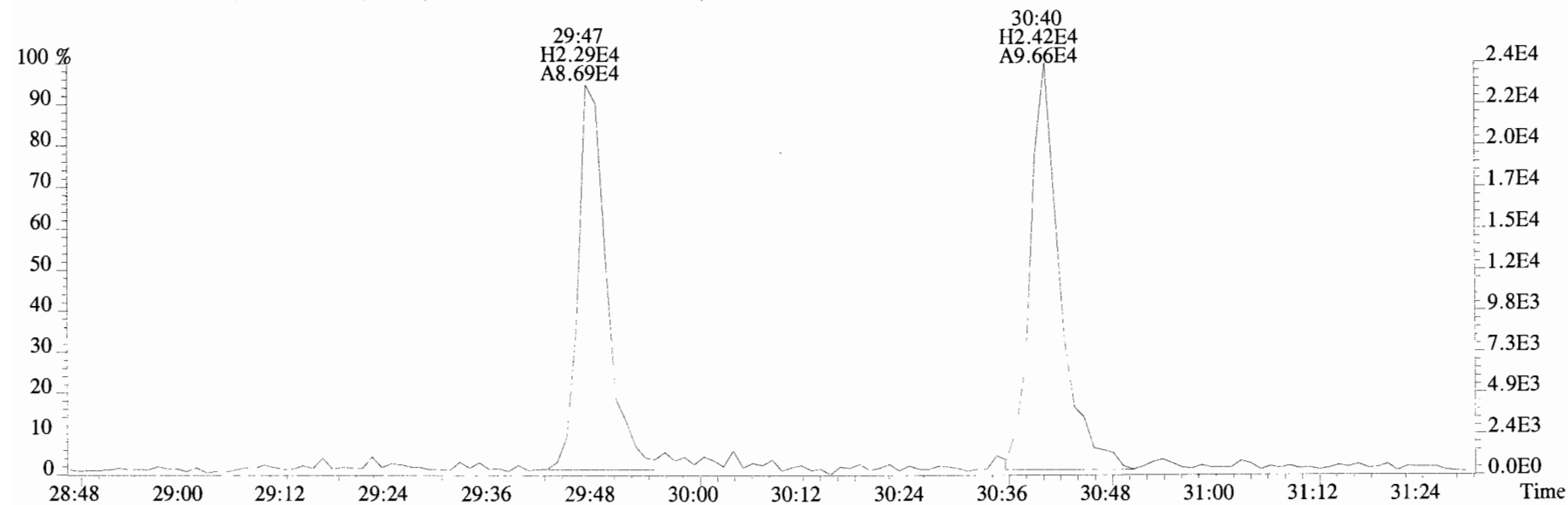
File:191009D1 #1-211 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
339.8597 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



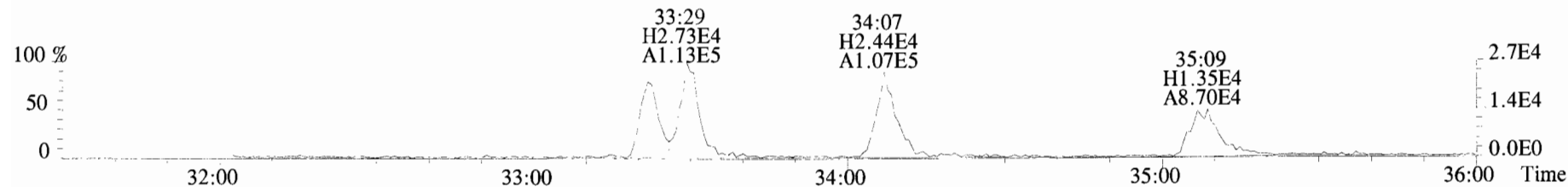
File:191009D1 #1-211 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
339.8597 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



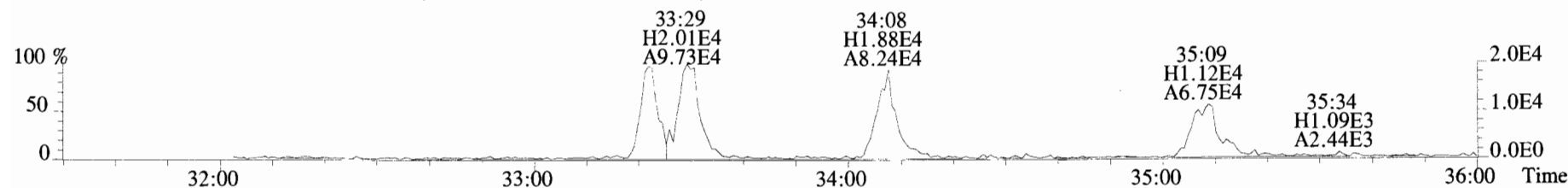
341.8568 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



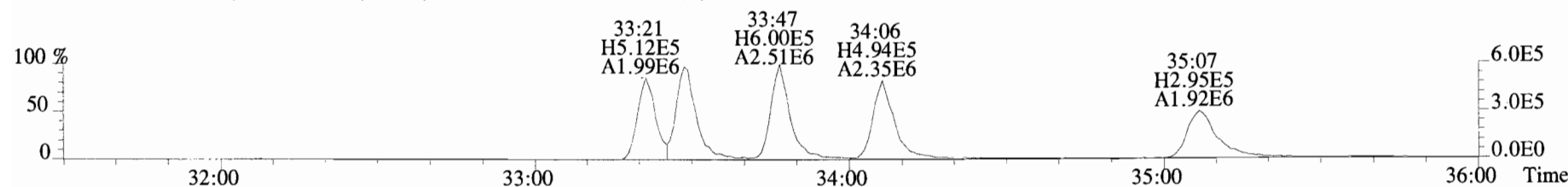
File:191009D1 #1-355 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
 373.8207 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



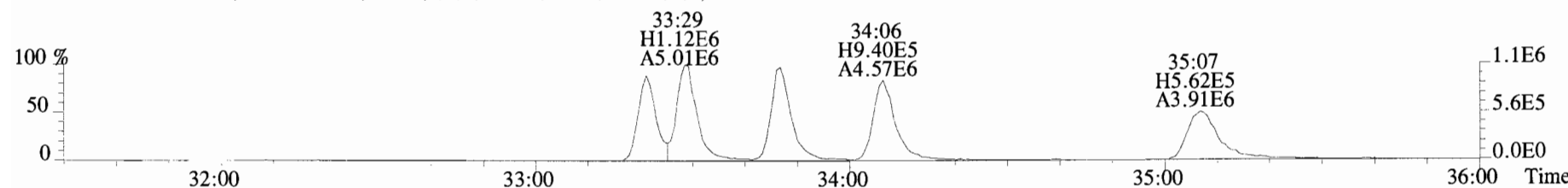
375.8178 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



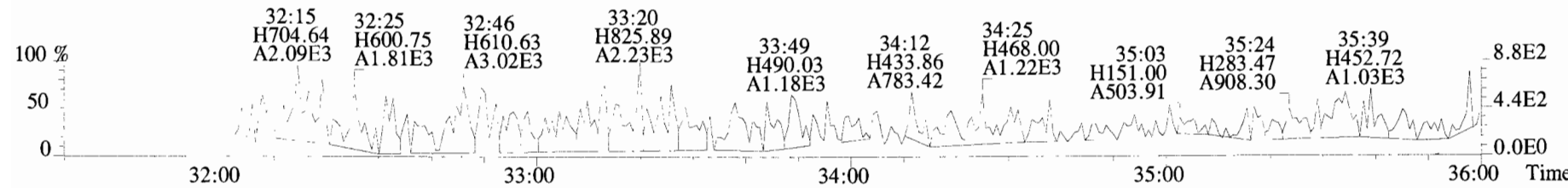
383.8639 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



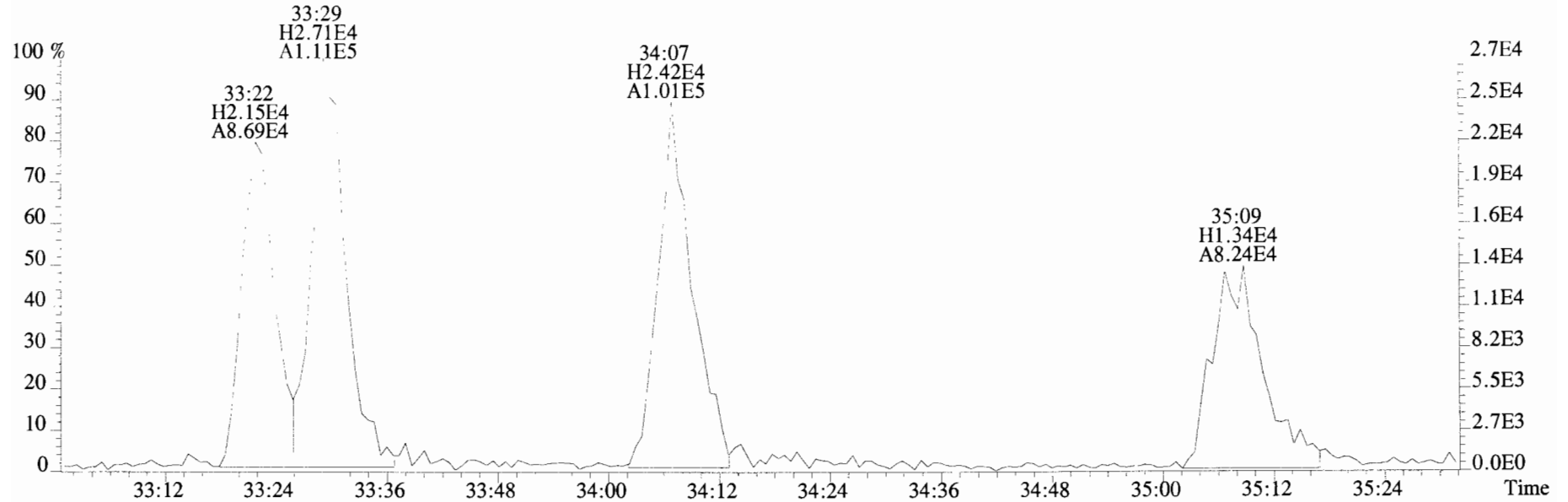
385.8610 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



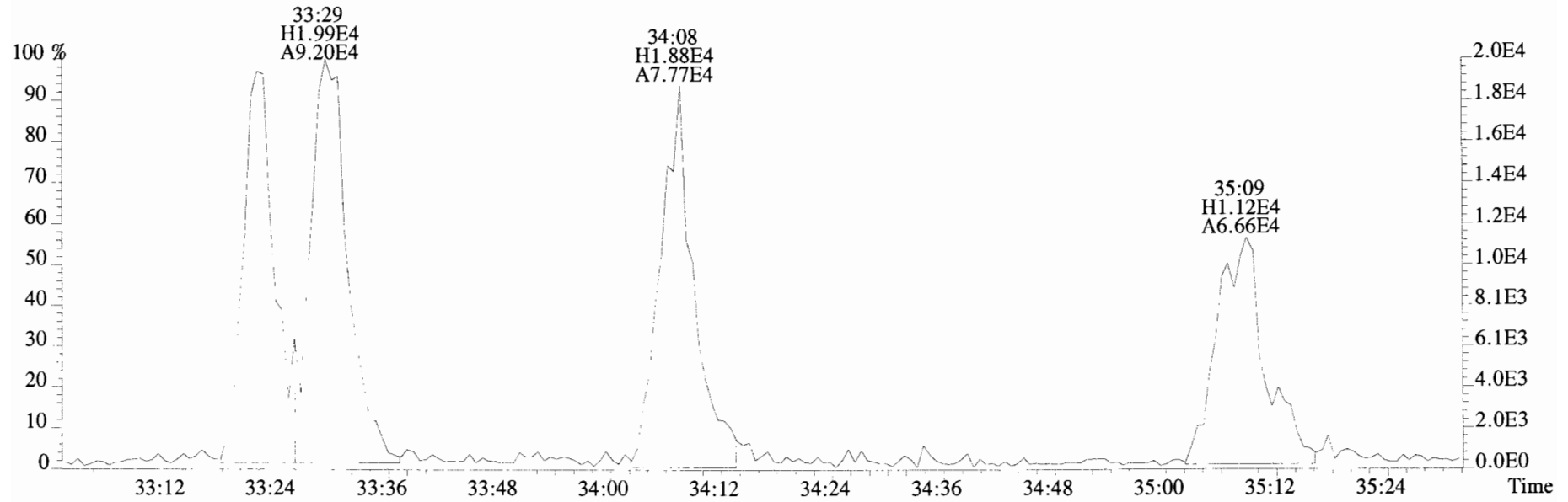
445.7555 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



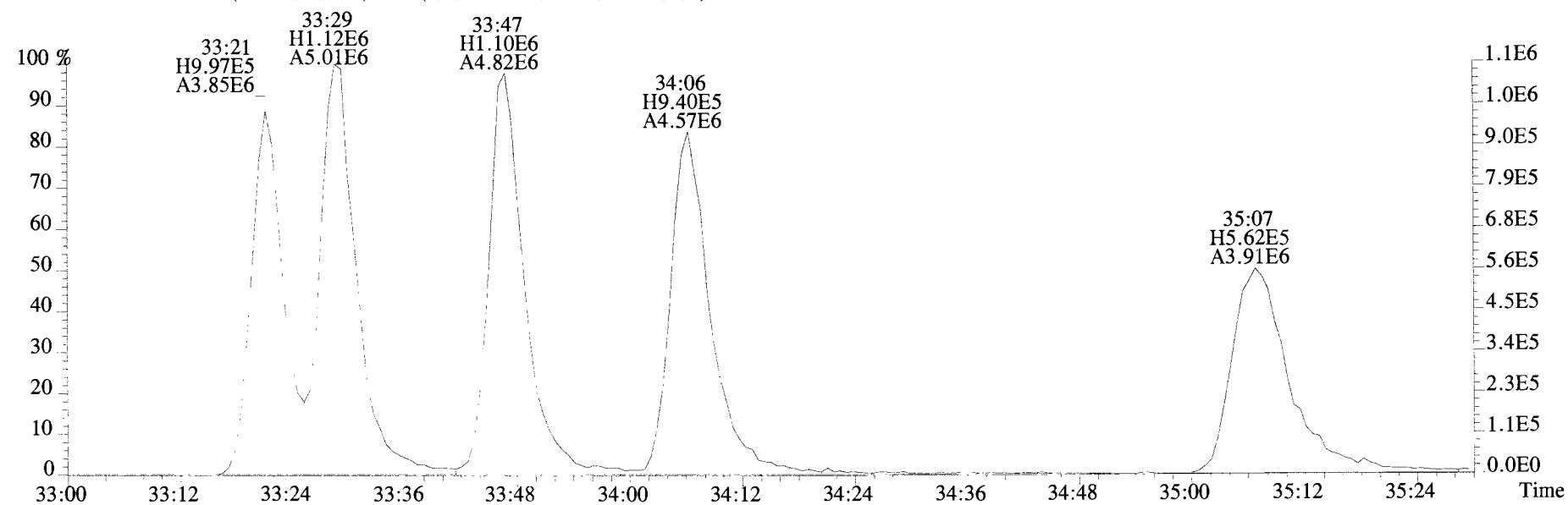
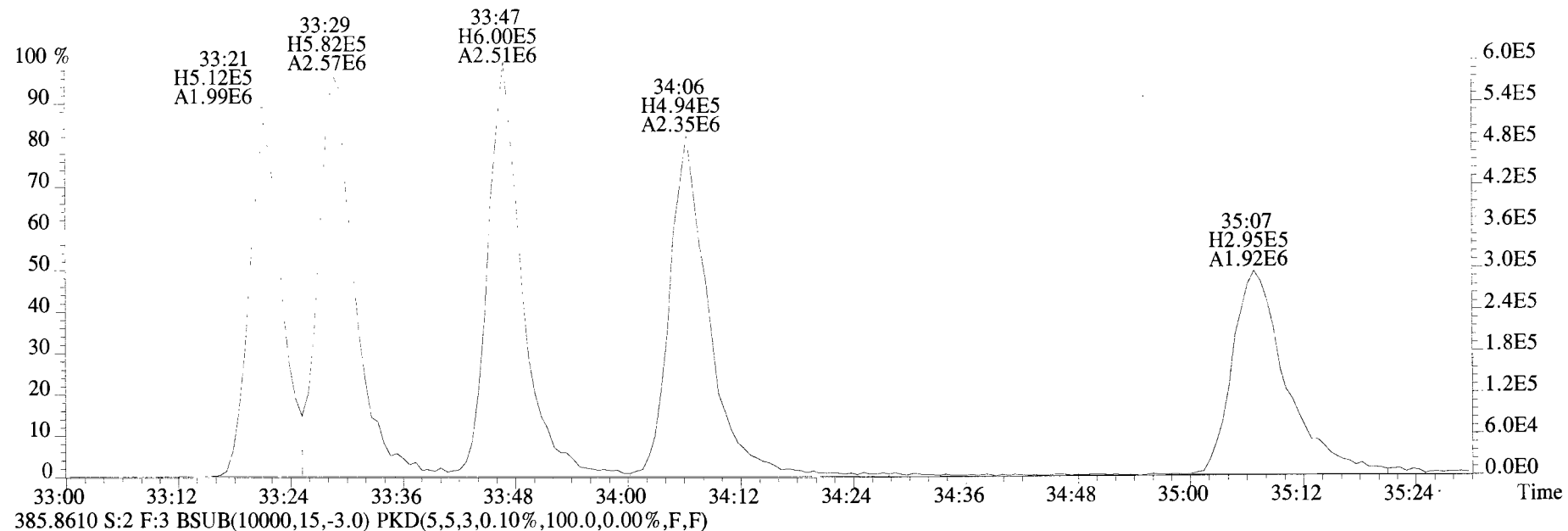
File:191009D1 #1-355 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
373.8207 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



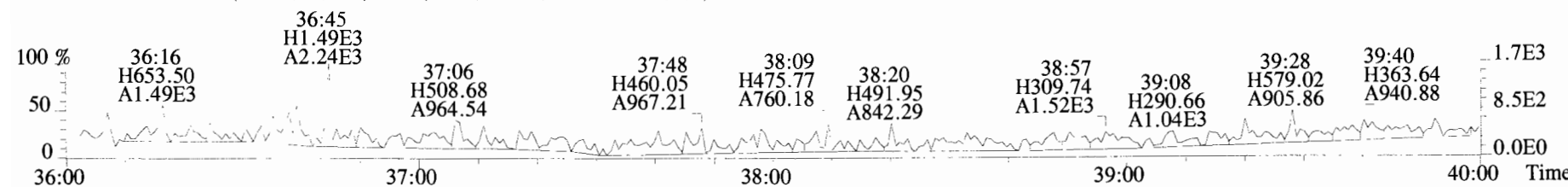
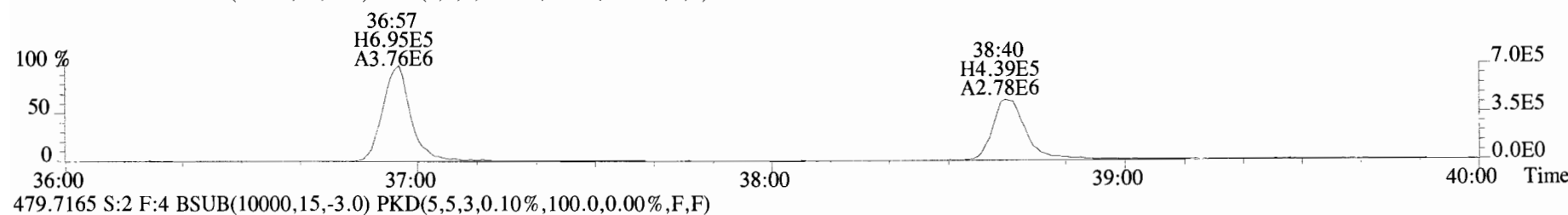
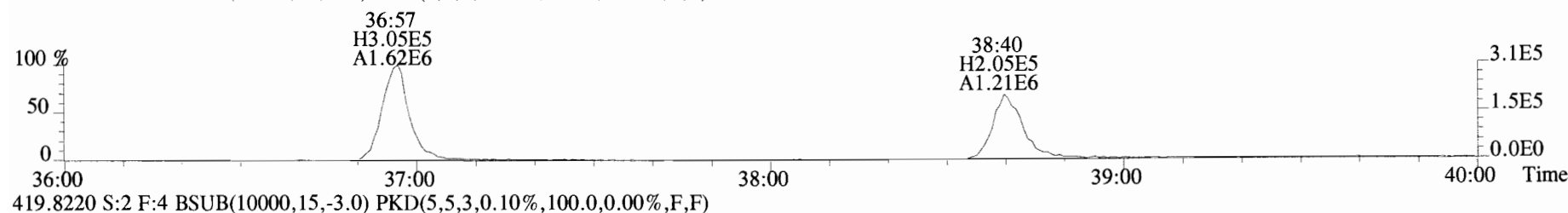
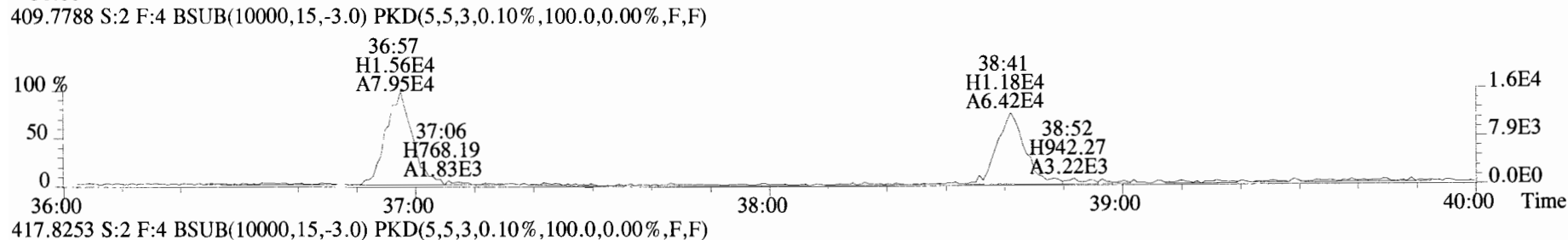
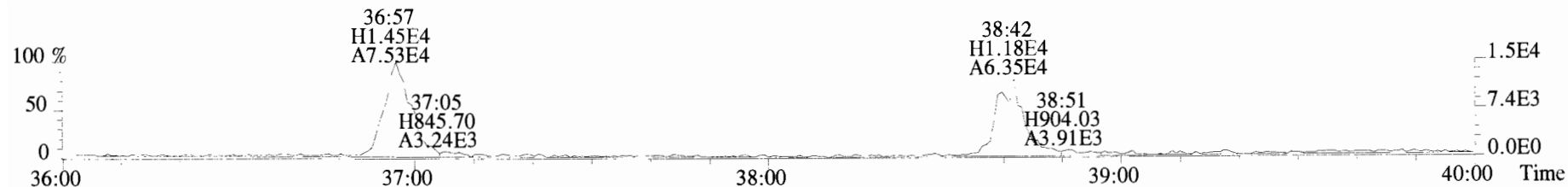
375.8178 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



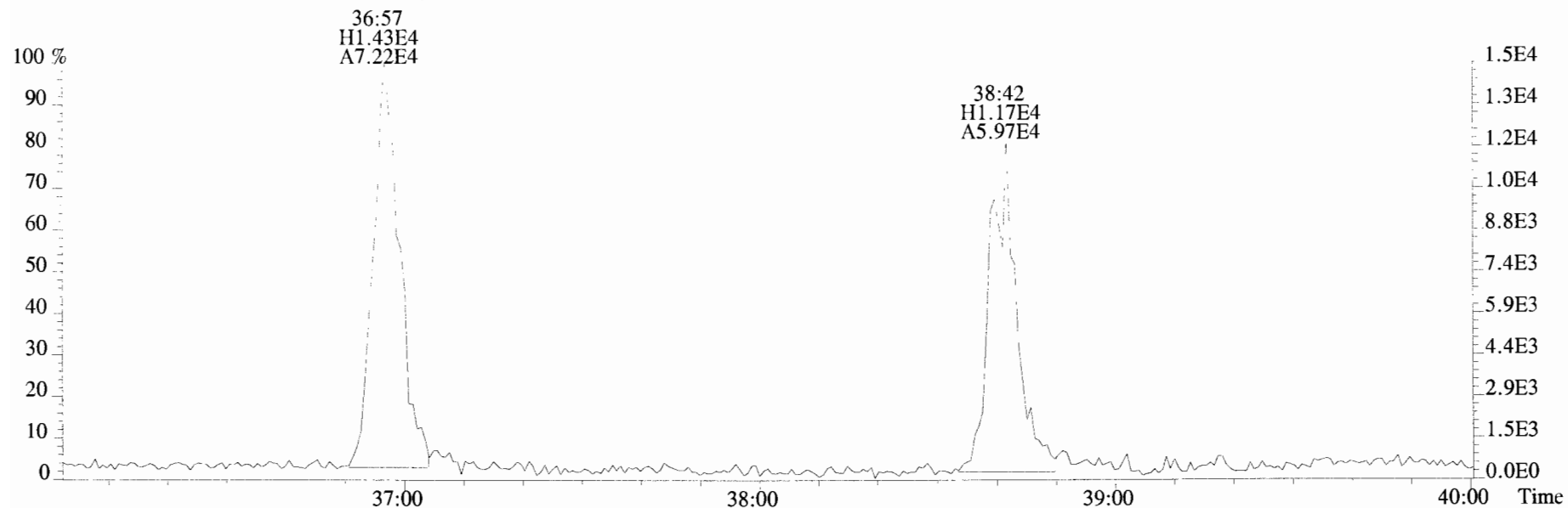
File:191009D1 #1-355 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
383.8639 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



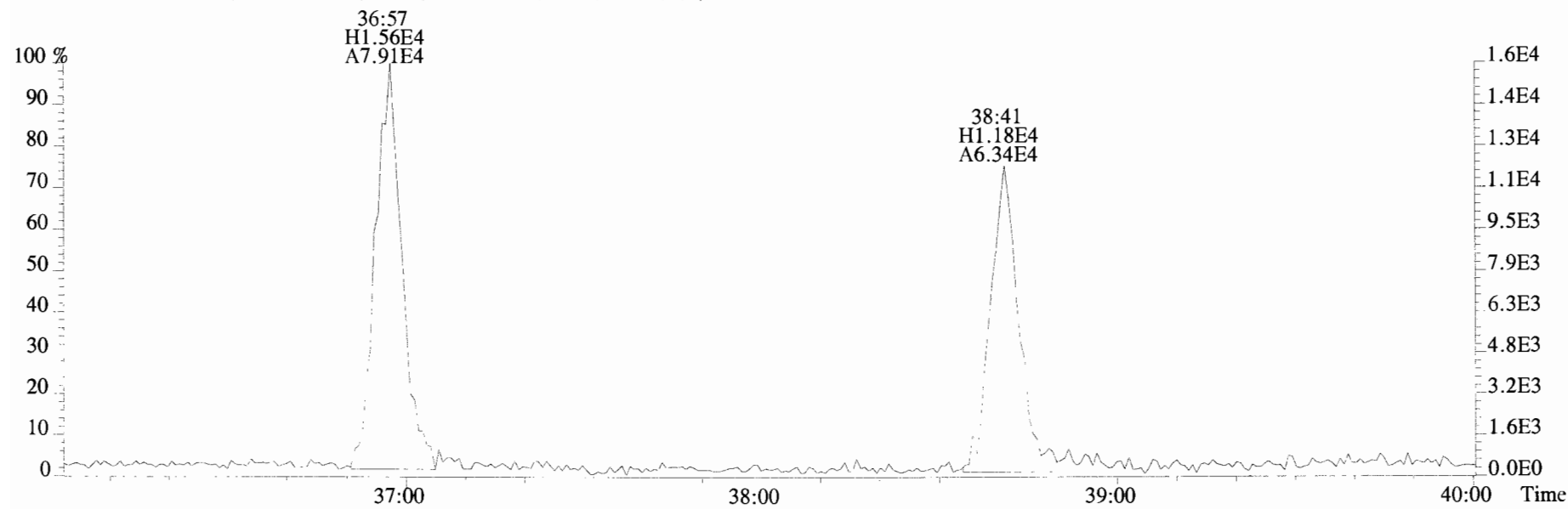
File:191009D1 #1-355 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text: Vista Analytical Laboratory_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
 407.7818 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



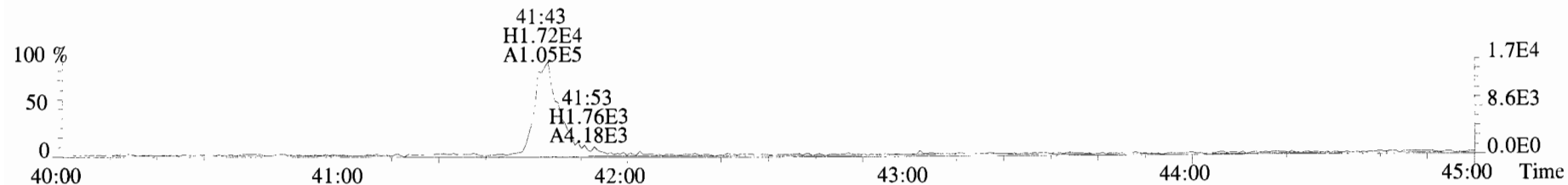
File:191009D1 #1-355 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
407.7818 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



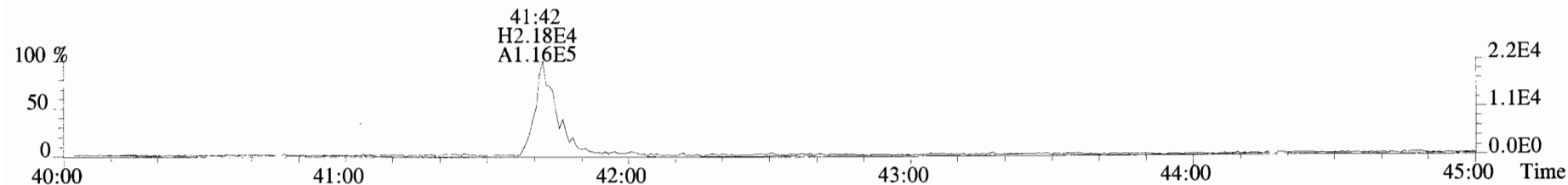
409.7788 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



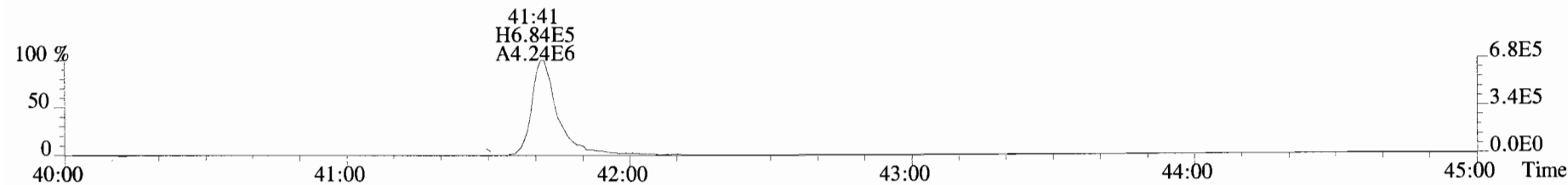
File:191009D1 #1-432 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
 441.7428 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



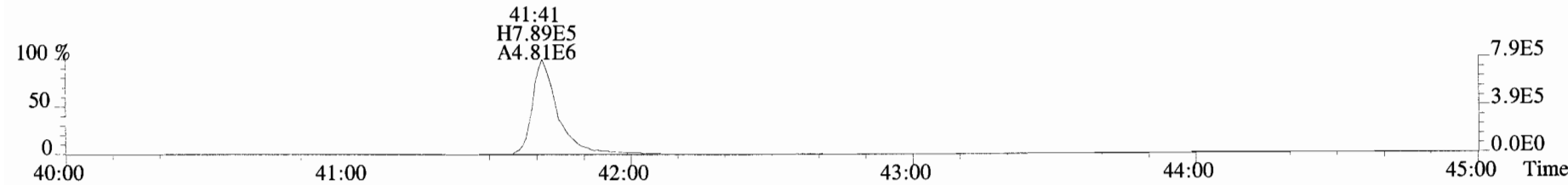
443.7398 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



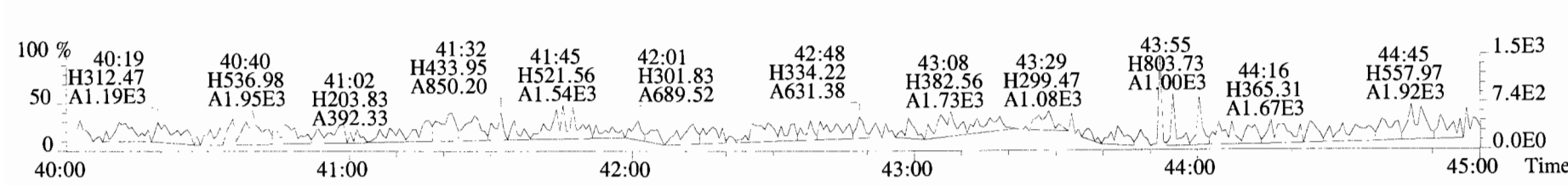
453.7831 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



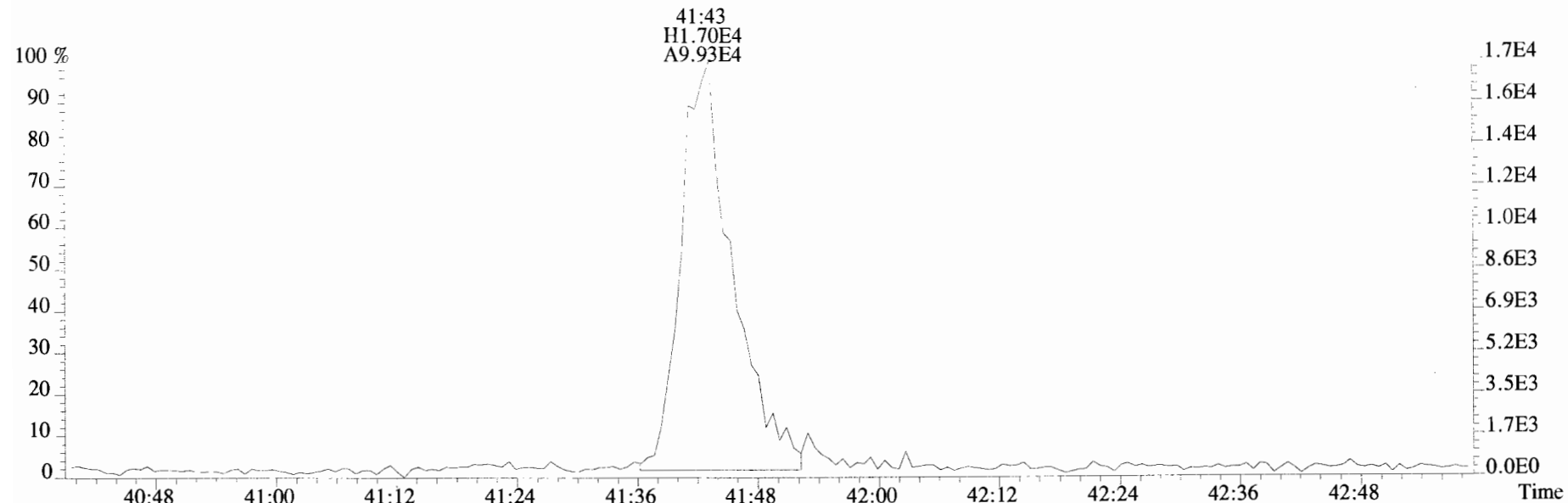
455.7801 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



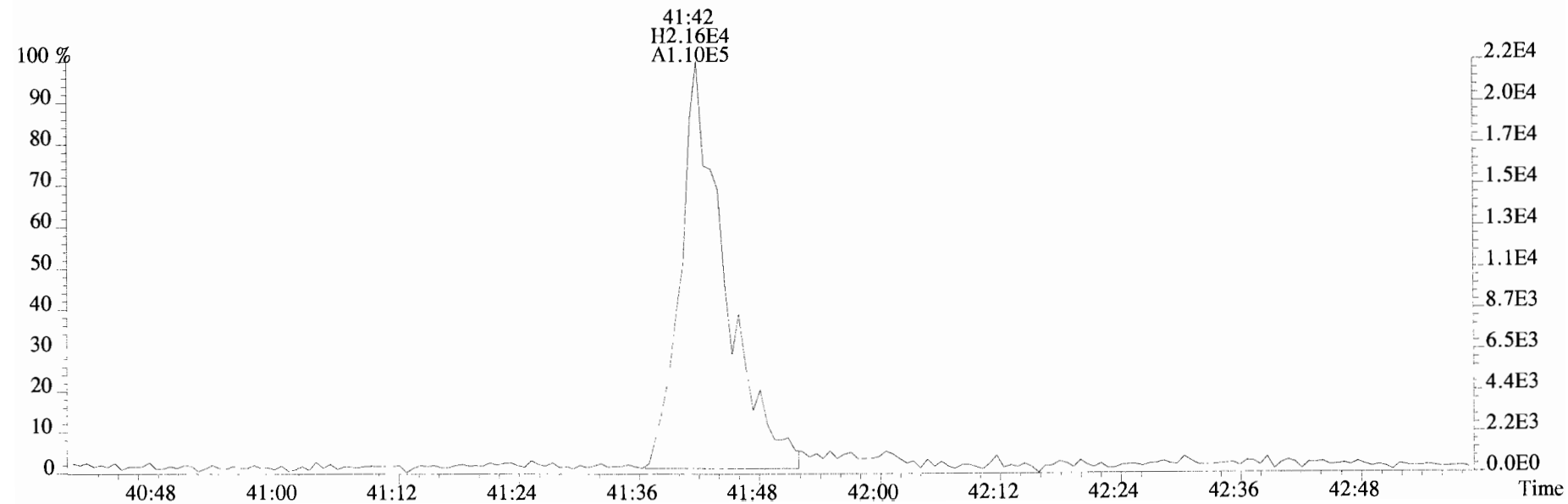
513.6775 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



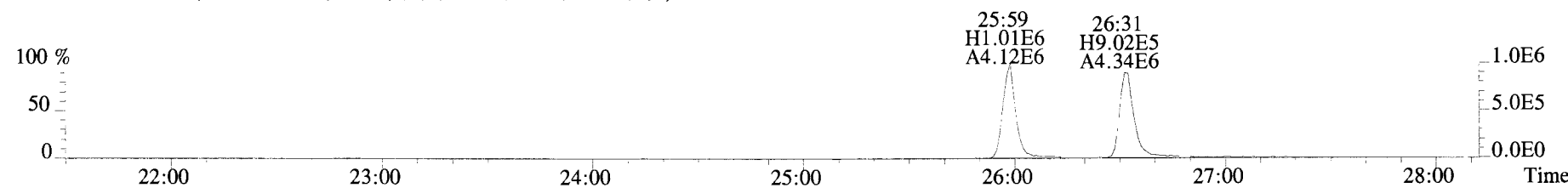
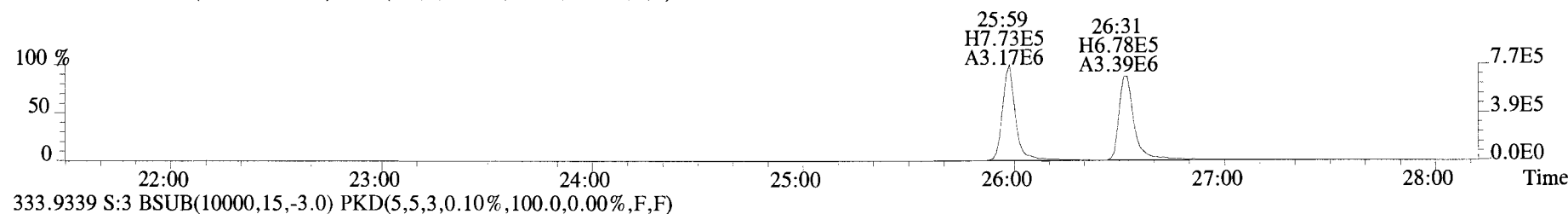
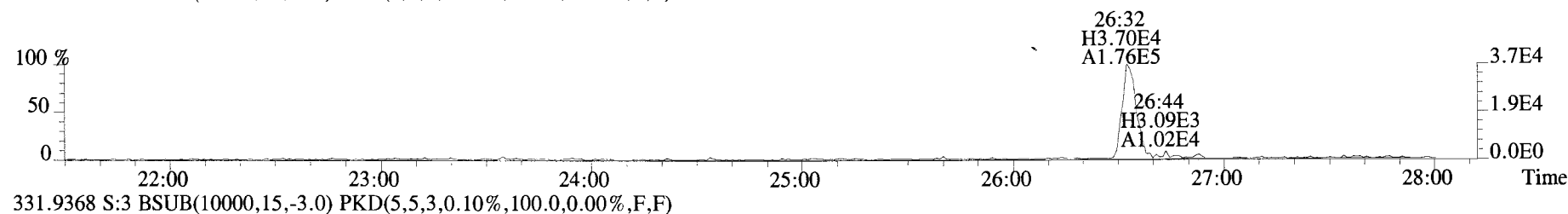
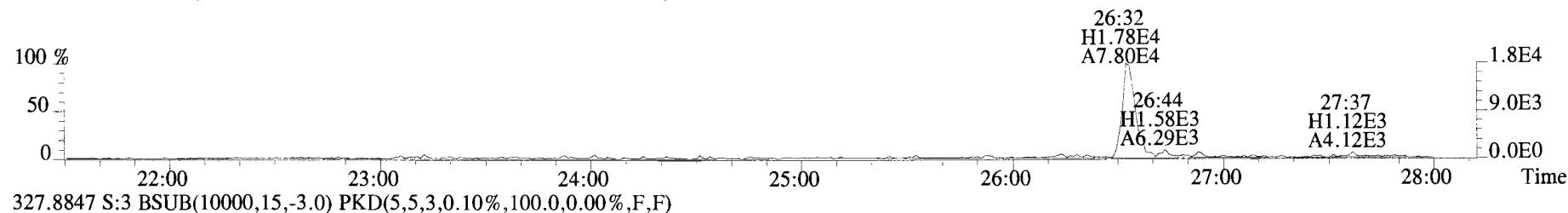
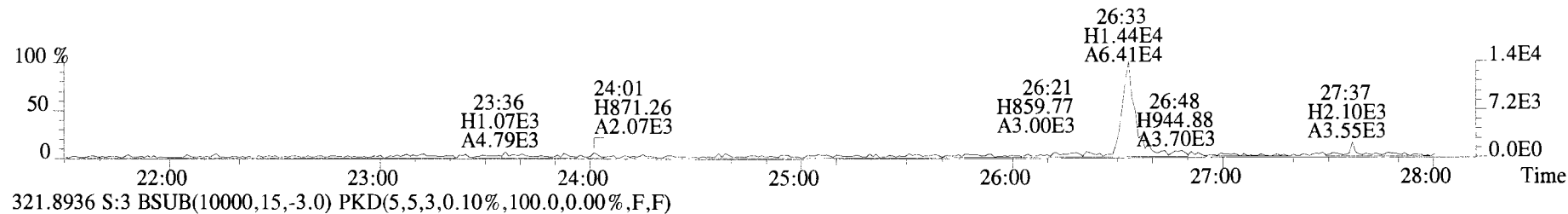
File:191009D1 #1-432 Acq: 9-OCT-2019 17:00:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-2 1613 CS1 19C2202 Exp:OCDD_DB5
441.7428 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



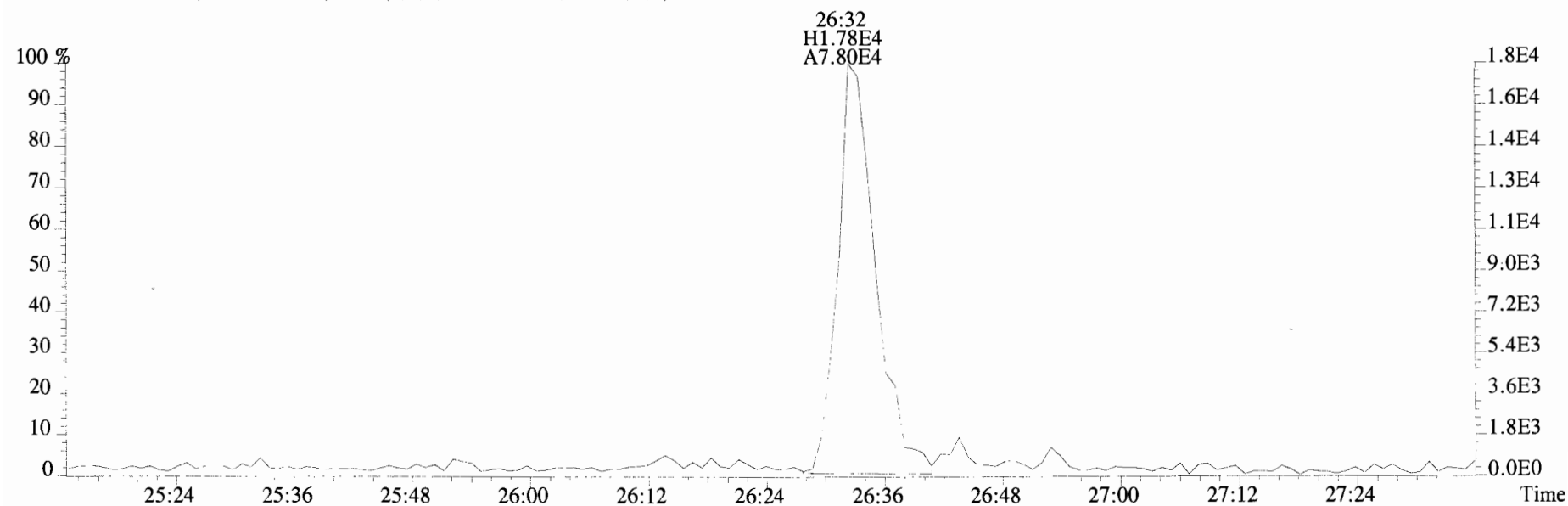
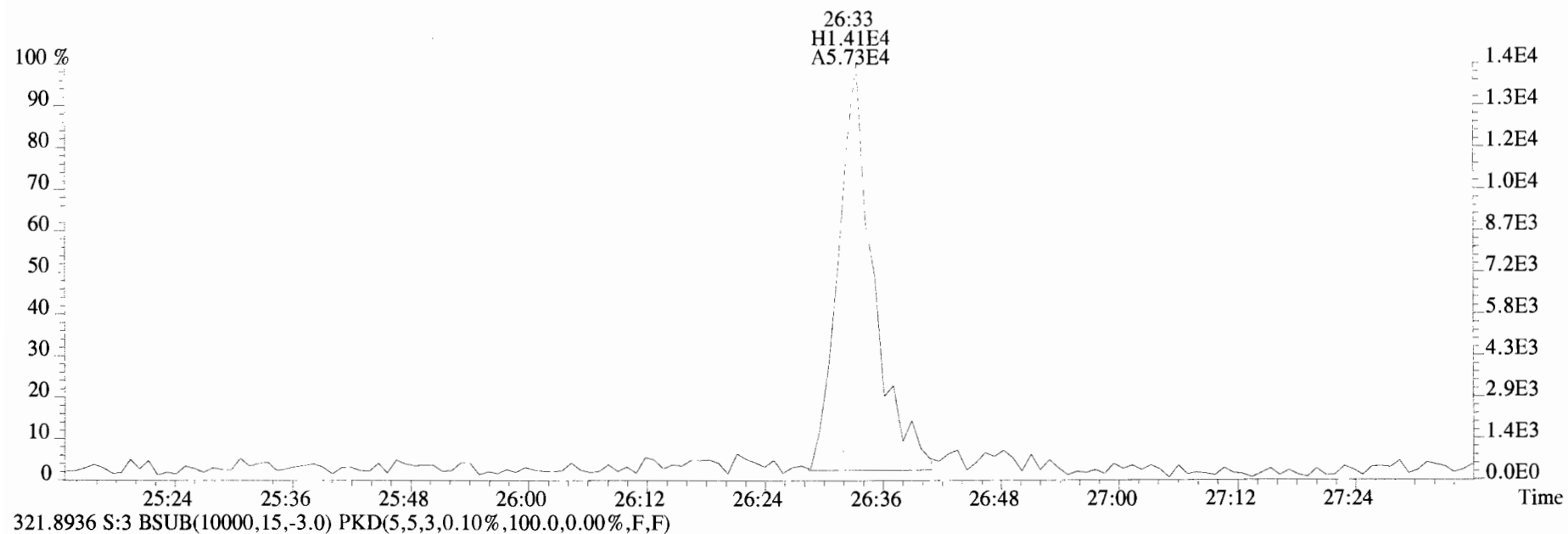
443.7398 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



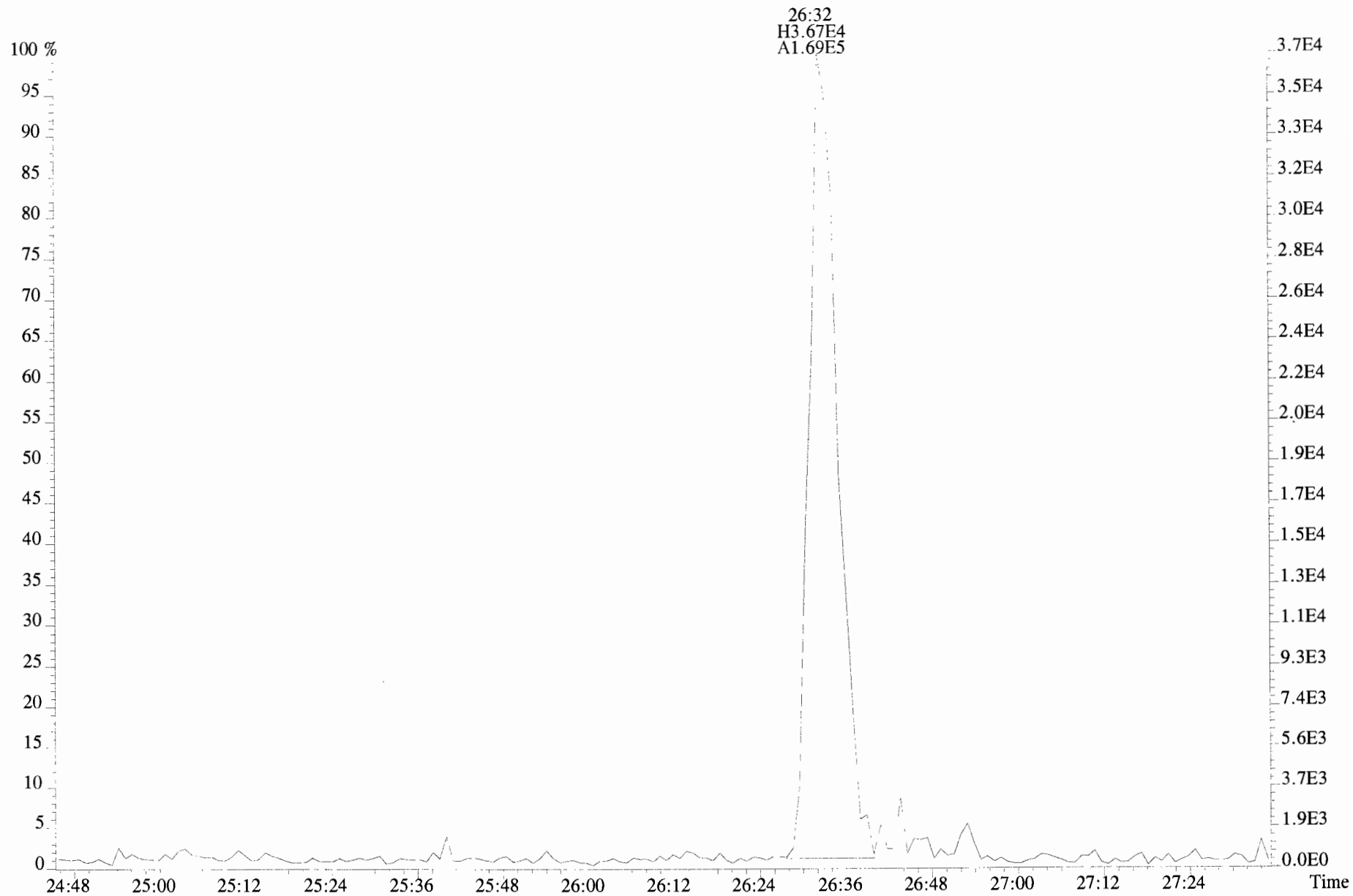
File:191009D1 #1-513 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD_DB5
319.8965 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



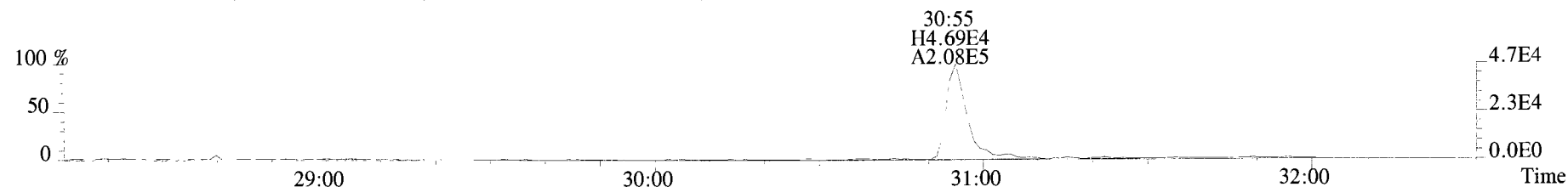
File:191009D1 #1-513 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD_DB5
319.8965 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



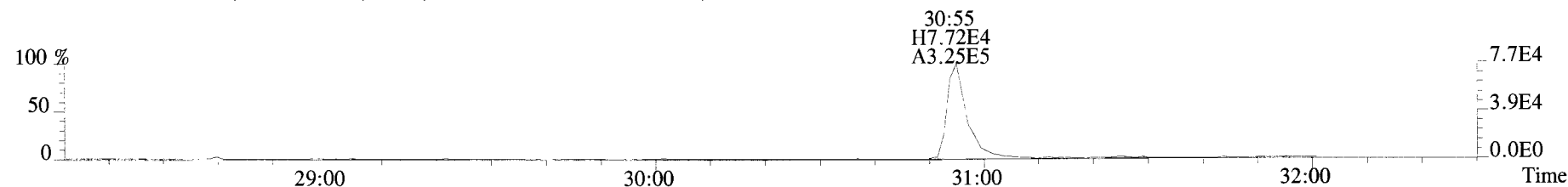
File:191009D1 #1-513 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD_DB5
327.8847 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



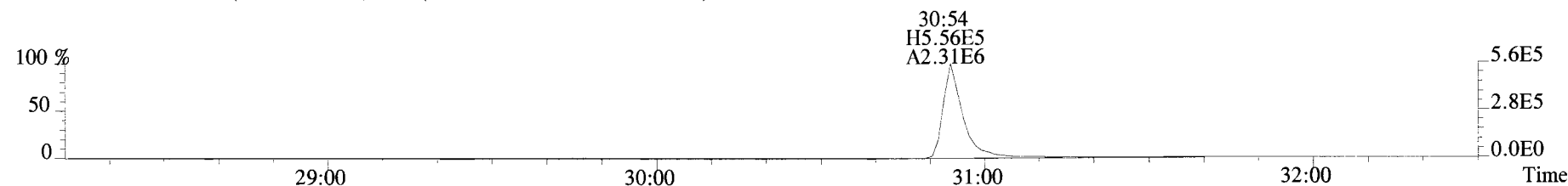
File:191009D1 #1-211 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD_DB5
353.8576 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



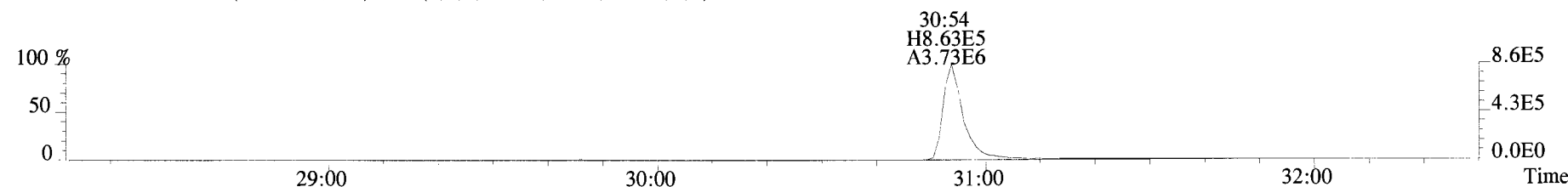
355.8546 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



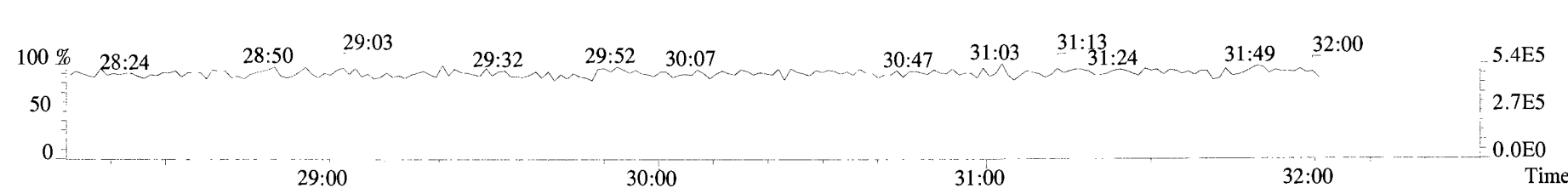
365.8978 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



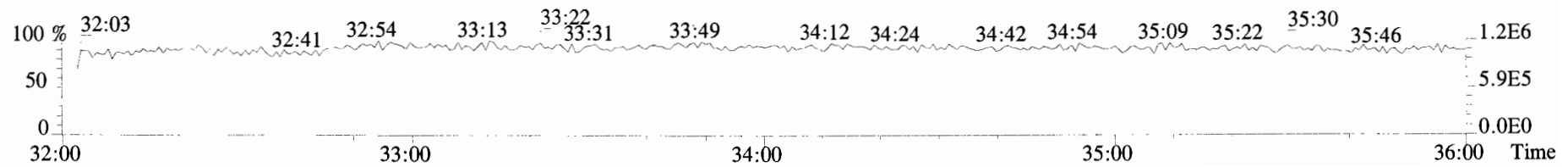
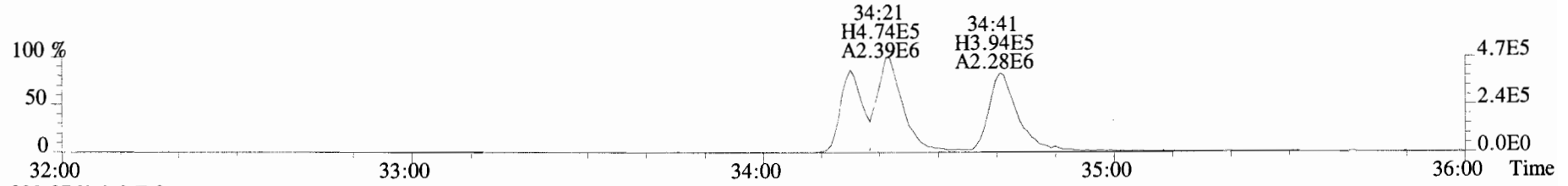
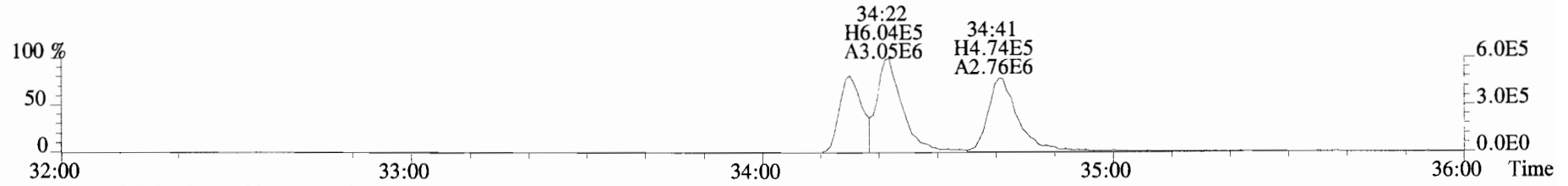
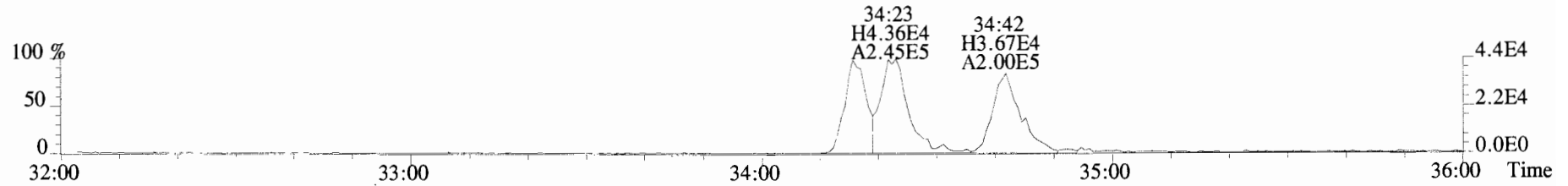
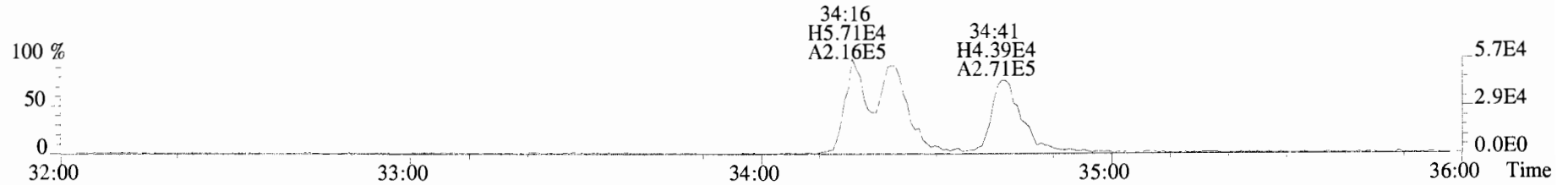
367.8949 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



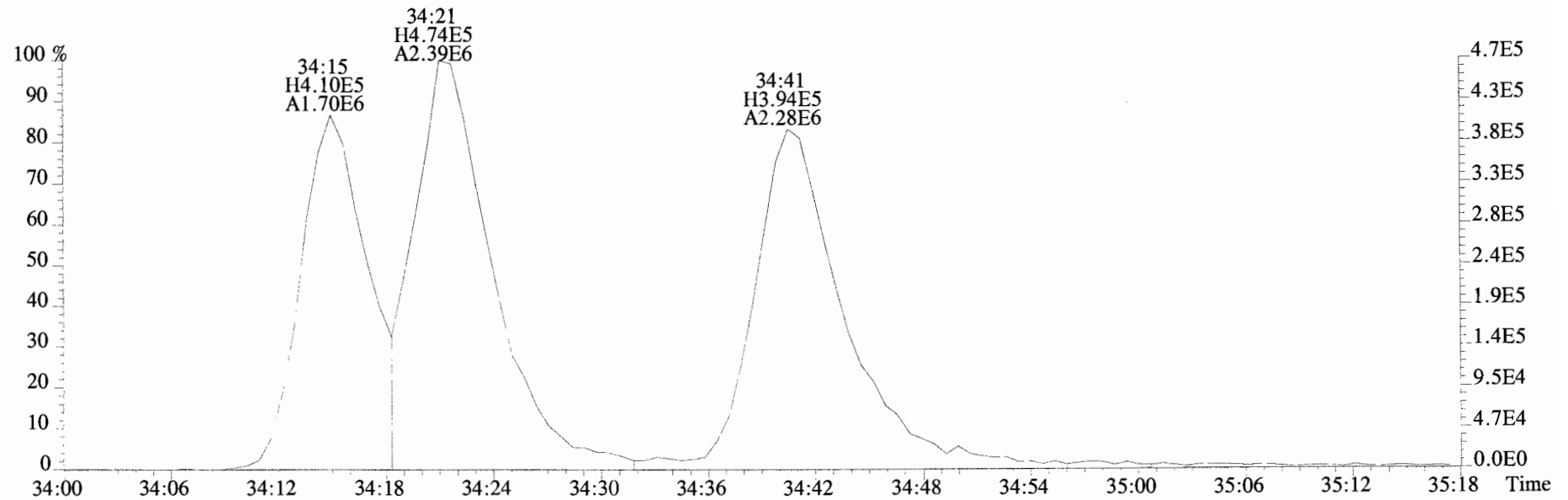
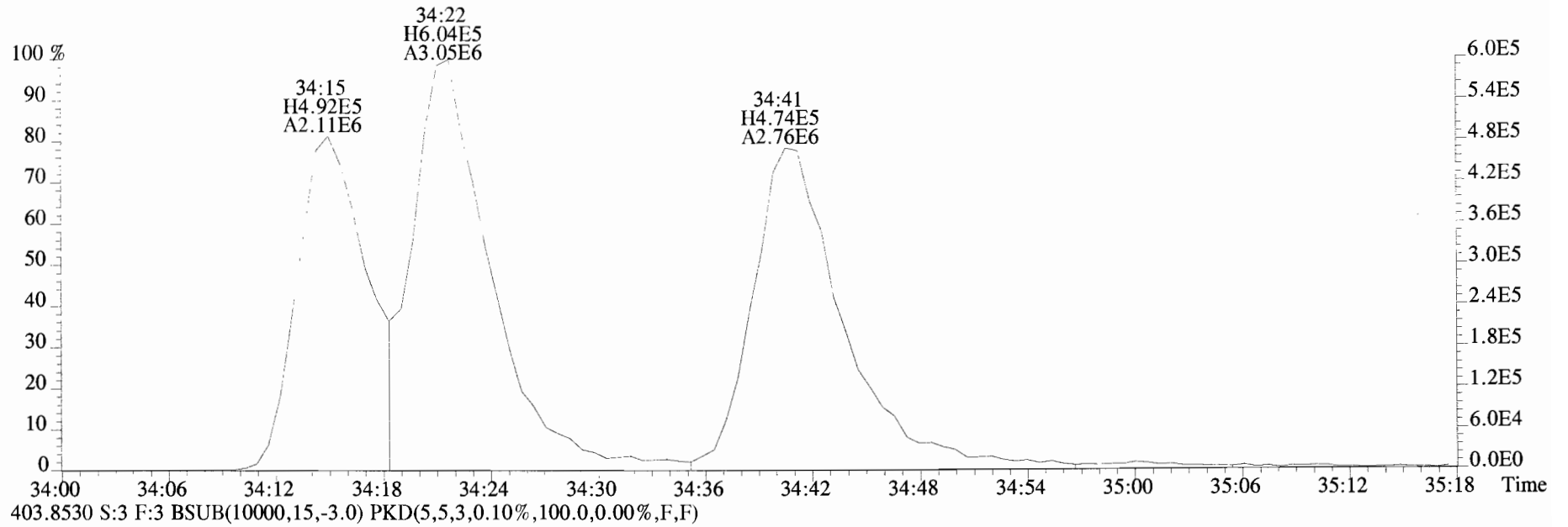
366.9792 S:3 F:2



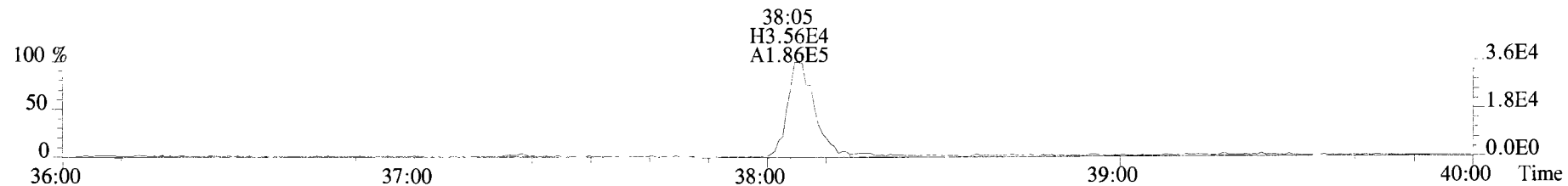
File:191009D1 #1-355 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD_DB5
389.8156 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



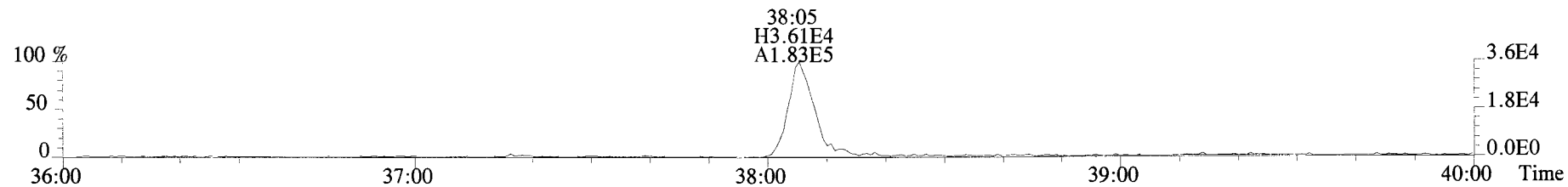
File:191009D1 #1-355 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text: Vista Analytical Laboratory VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD_DB5
401.8559 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



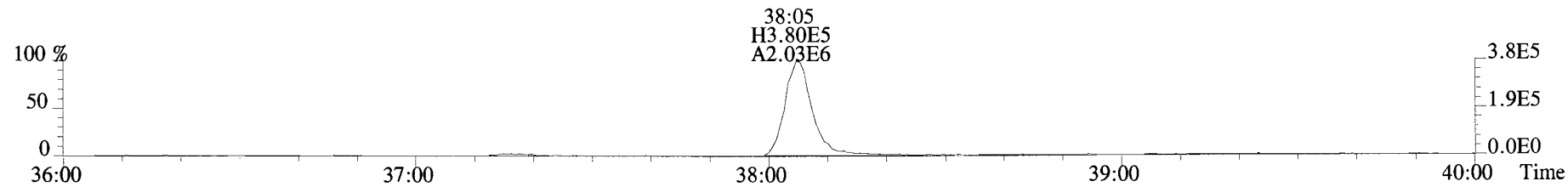
File:191009D1 #1-355 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD_DB5
423.7767 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



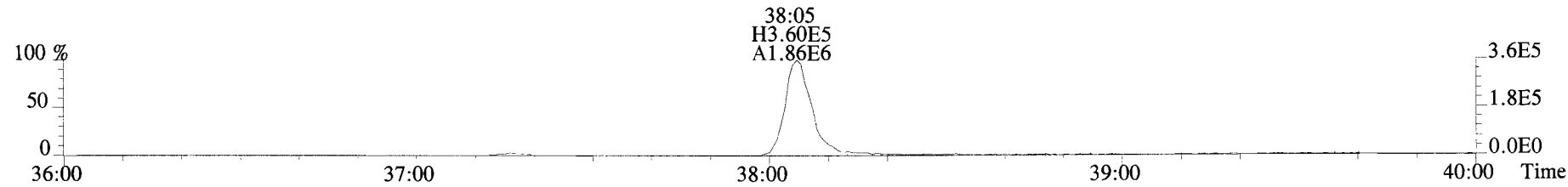
425.7737 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



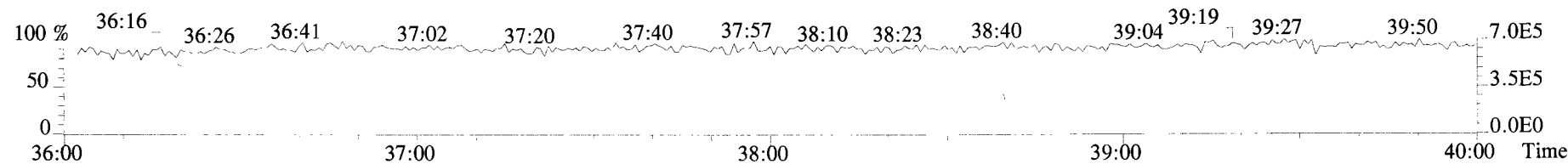
435.8169 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



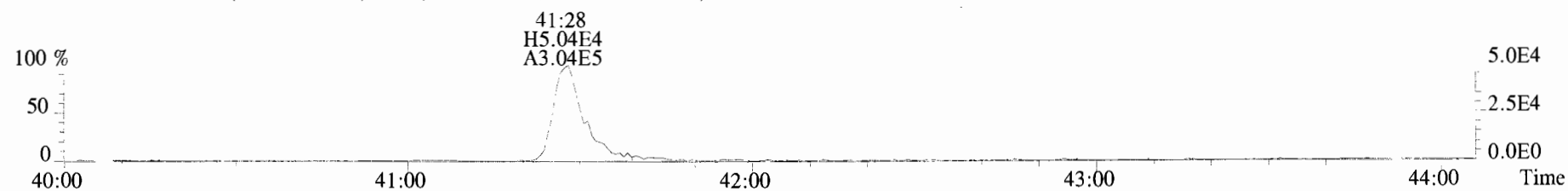
437.8140 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



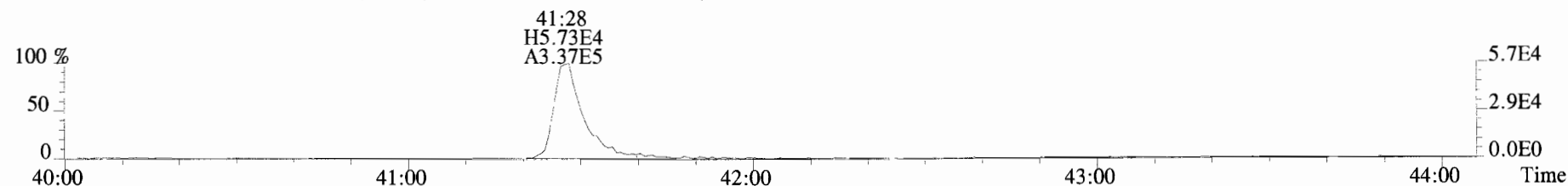
454.9728 S:3 F:4



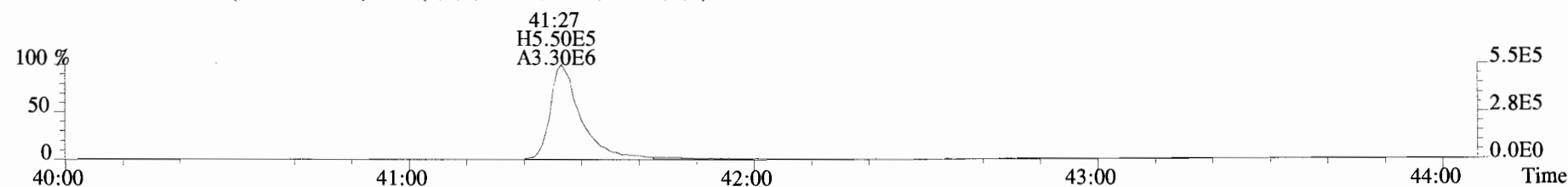
File:191009D1 #1-432 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD_DB5
457.7377 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



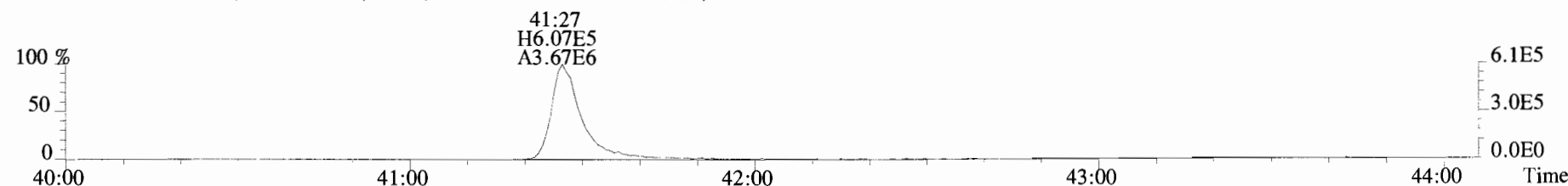
459.7348 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



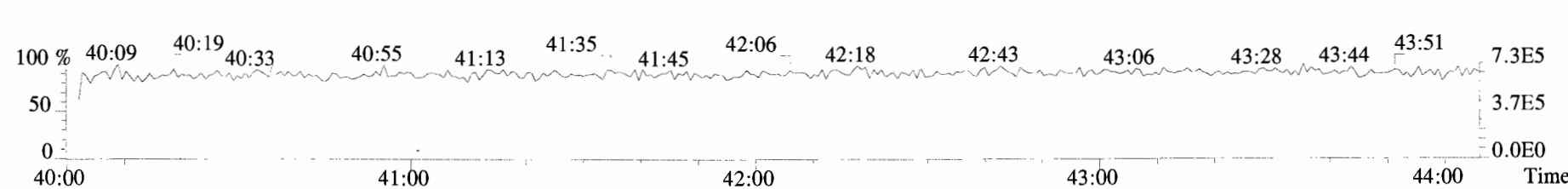
469.7780 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



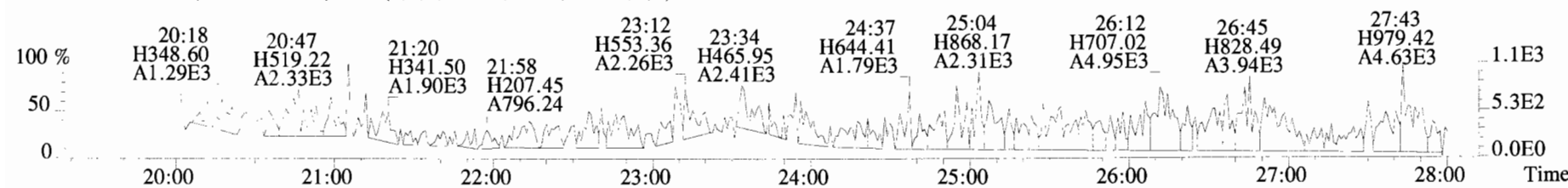
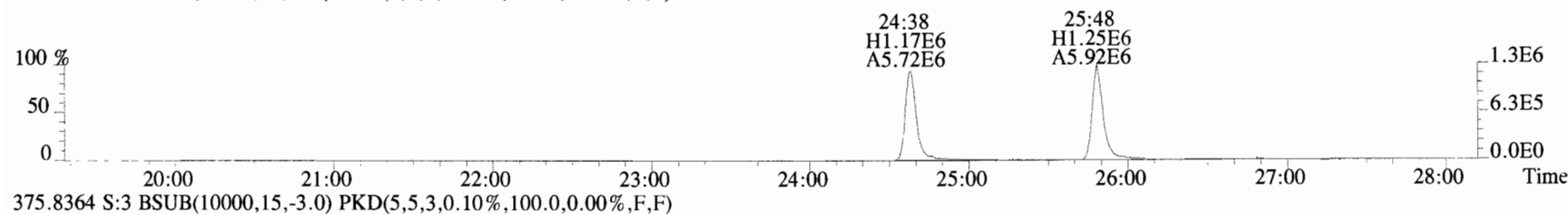
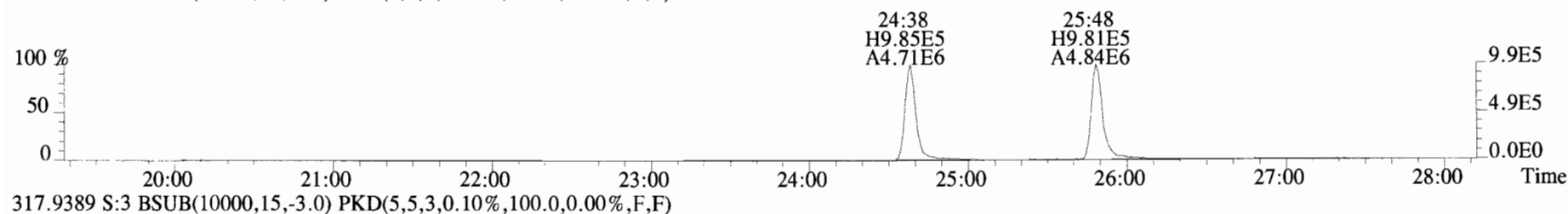
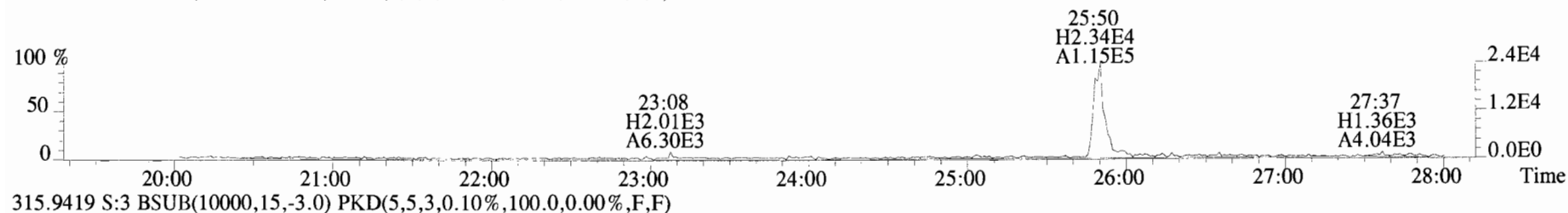
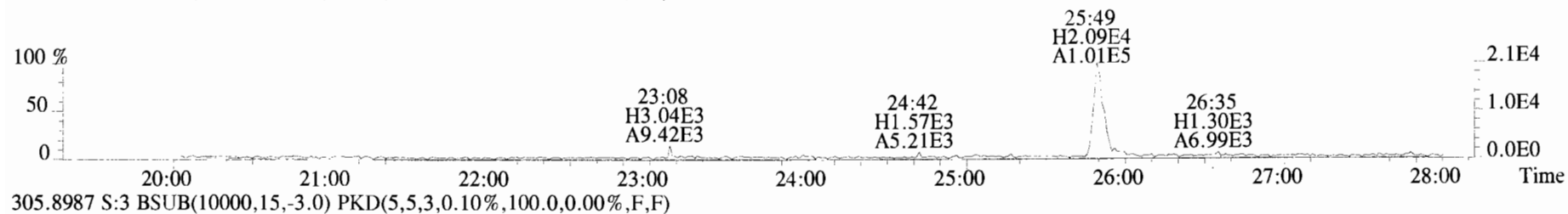
471.7750 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



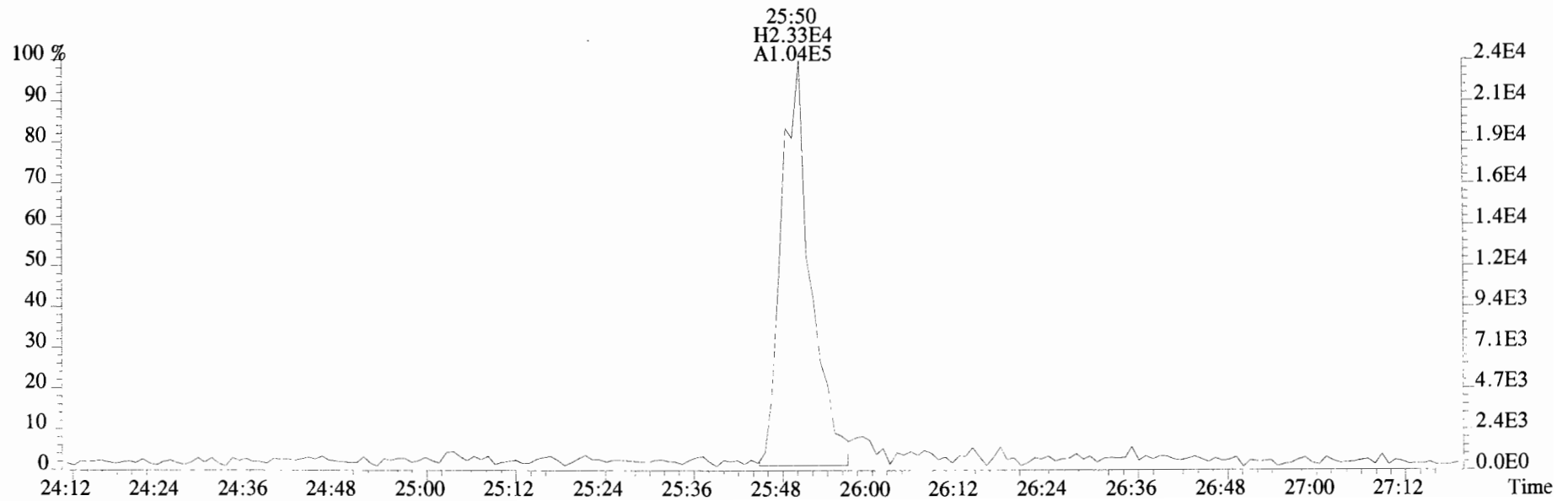
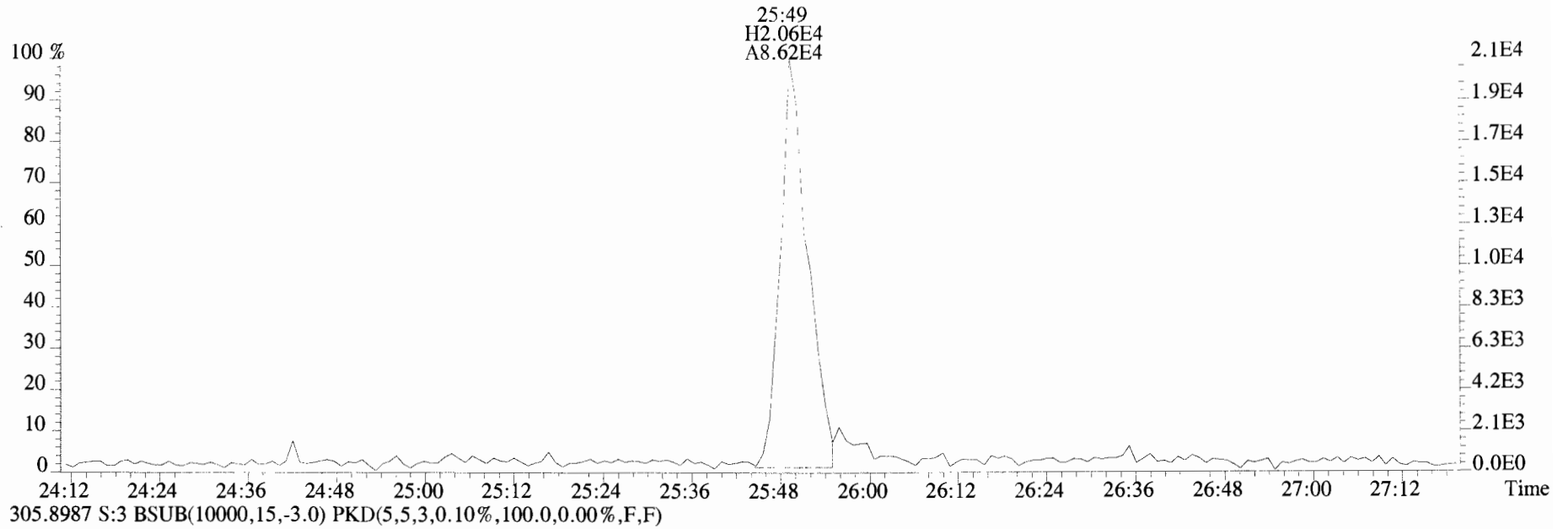
454.9728 S:3 F:5



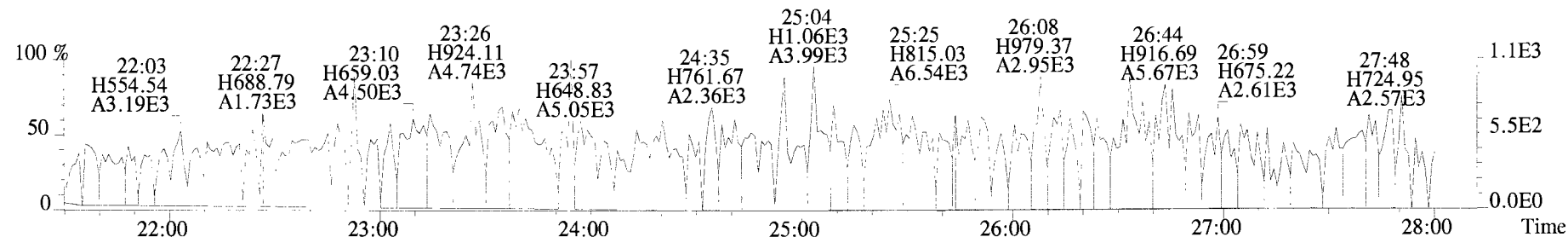
File:191009D1 #1-513 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD_DB5
303.9016 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



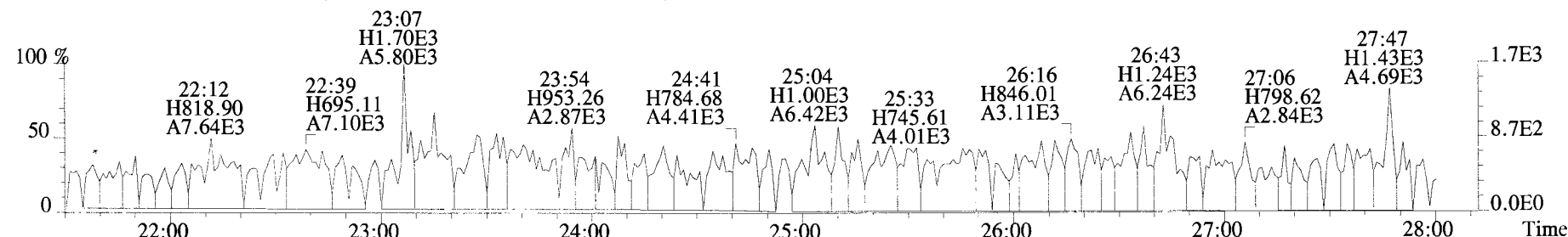
File:191009D1 #1-513 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD_DB5
303.9016 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



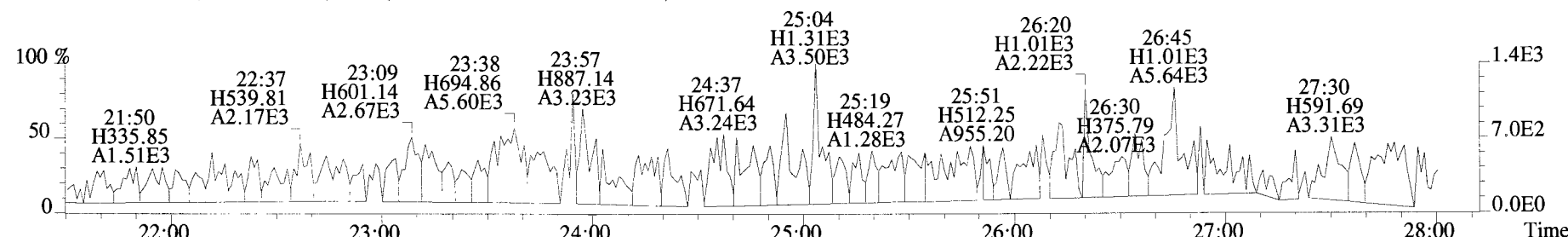
File:191009D1 #1-513 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD_DB5
 339.8597 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



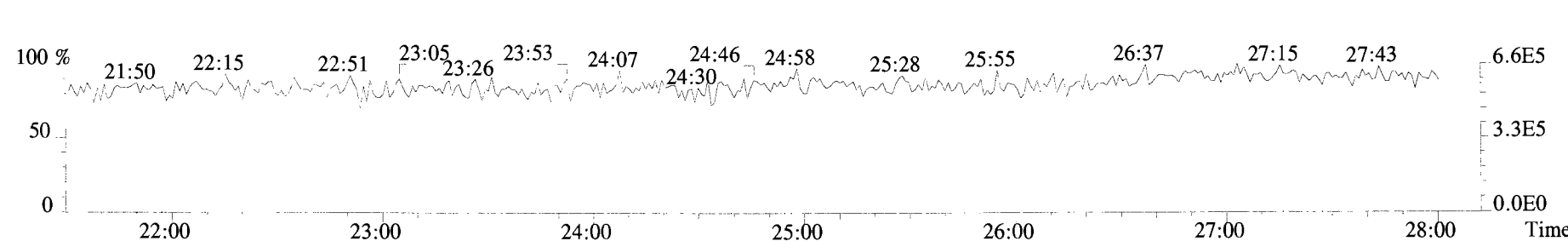
341.8568 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



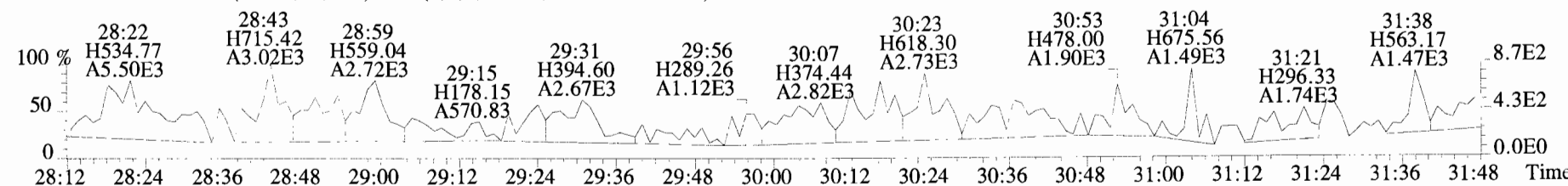
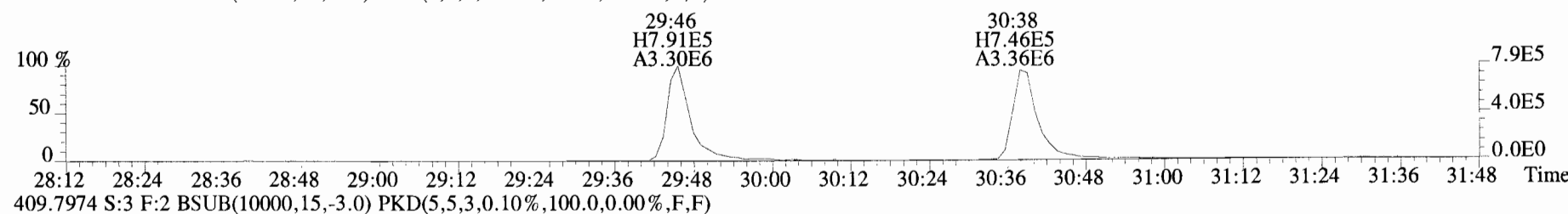
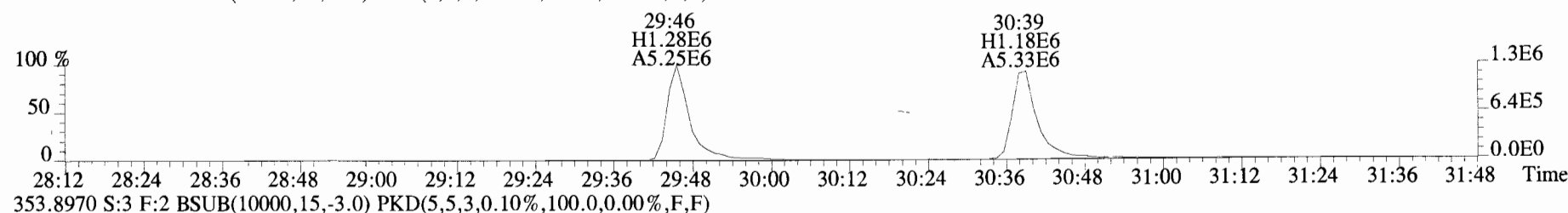
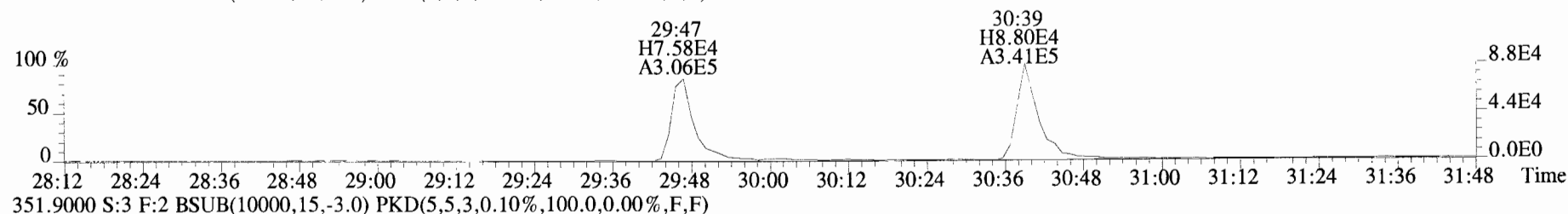
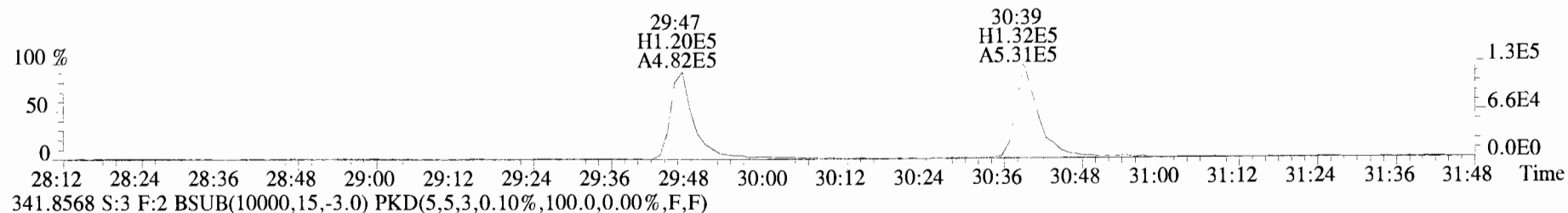
409.7974 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



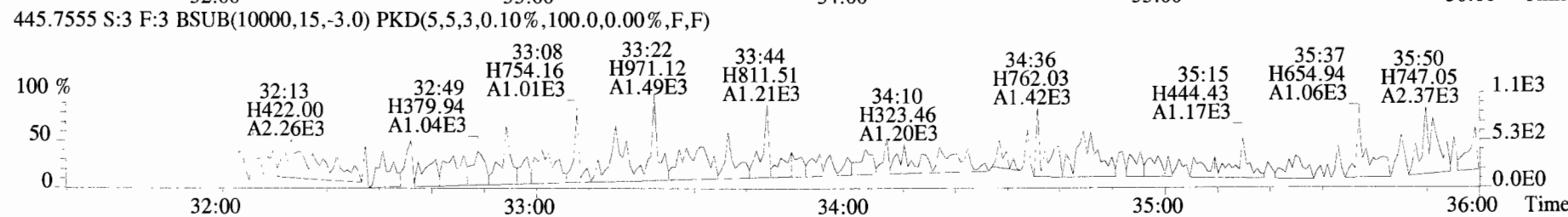
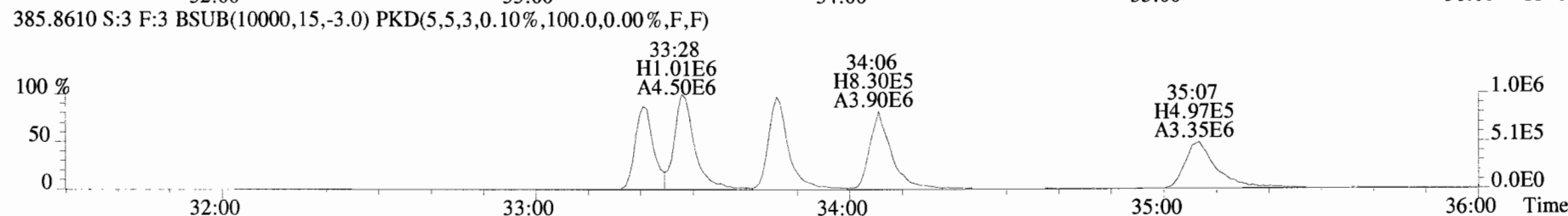
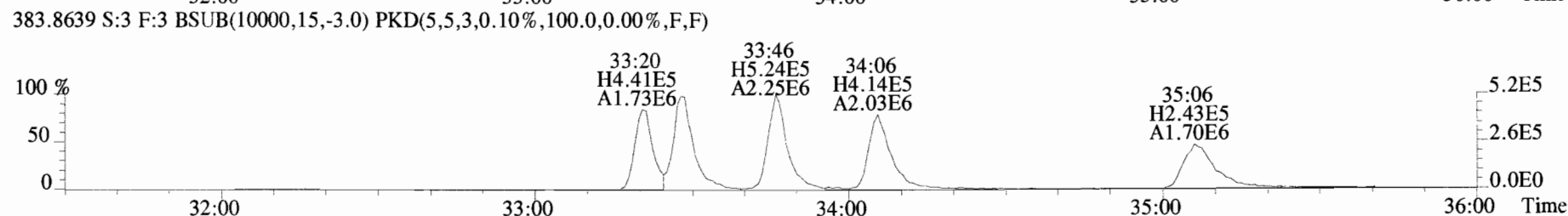
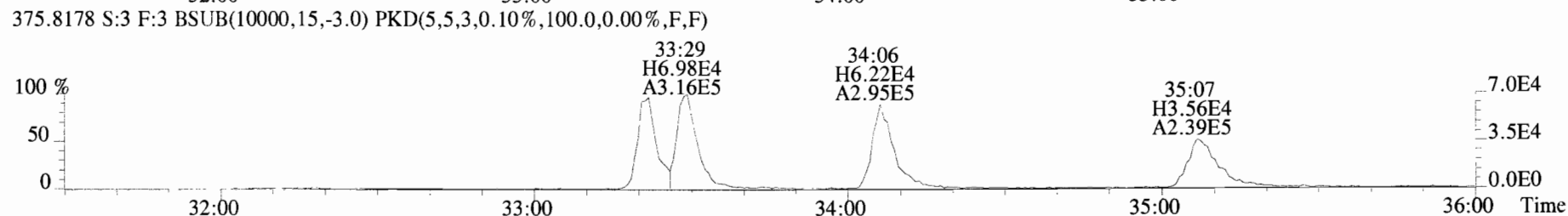
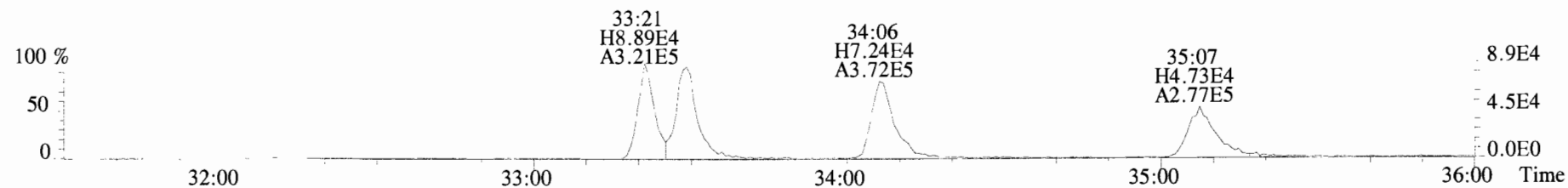
316.9824 S:3



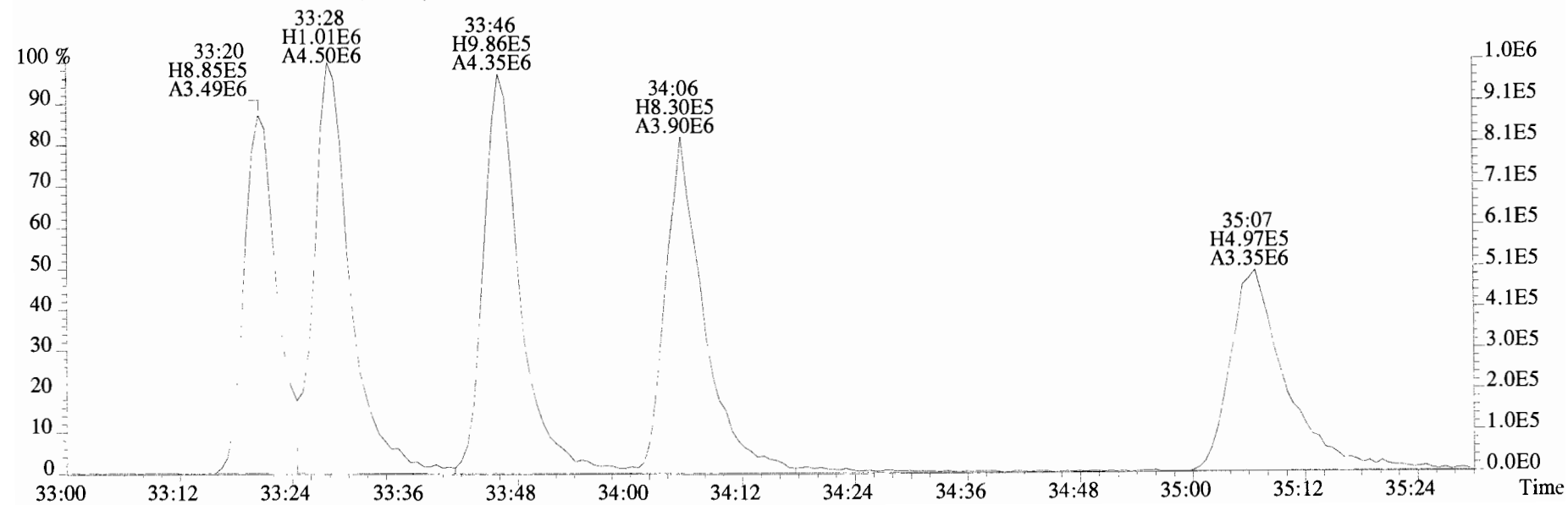
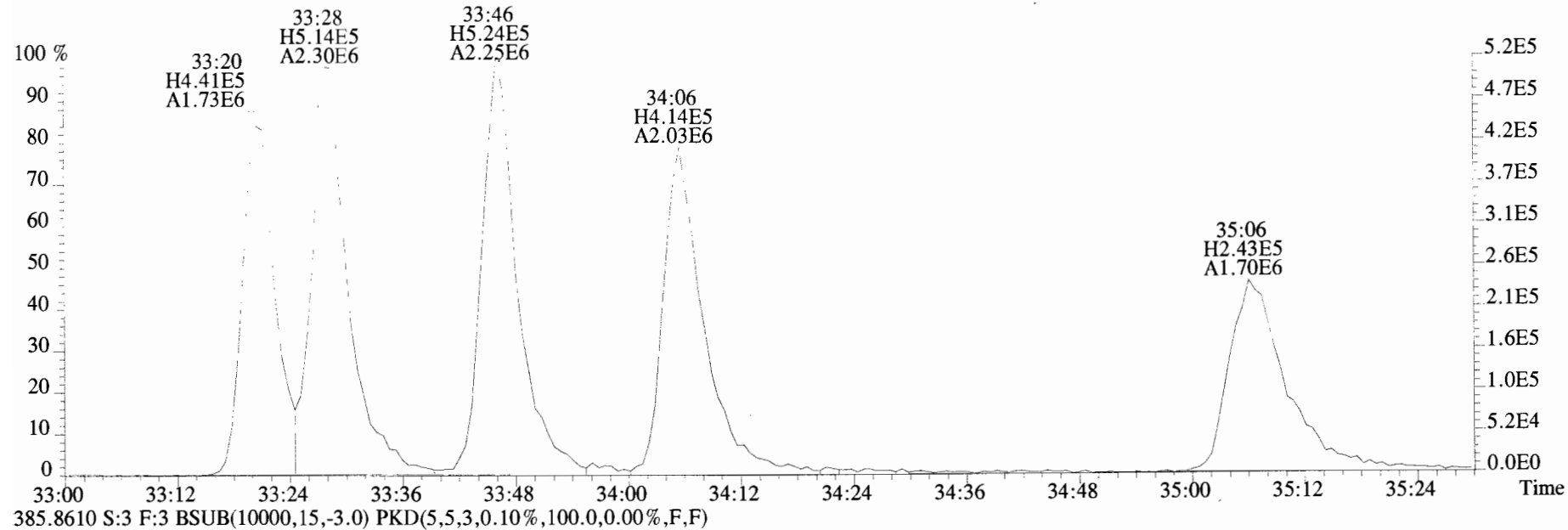
File:191009D1 #1-211 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD_DB5
 339.8597 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



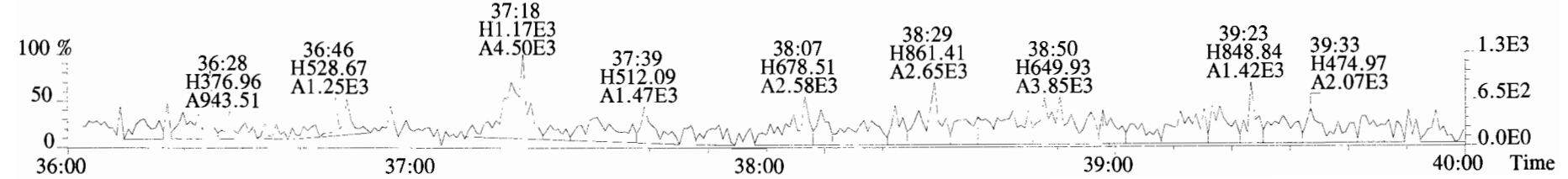
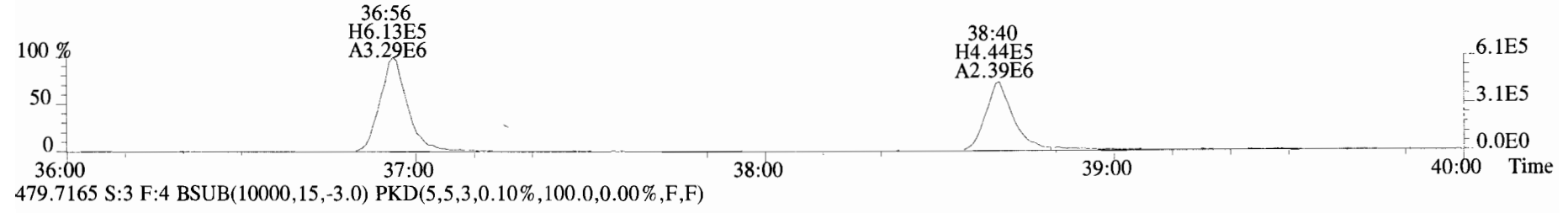
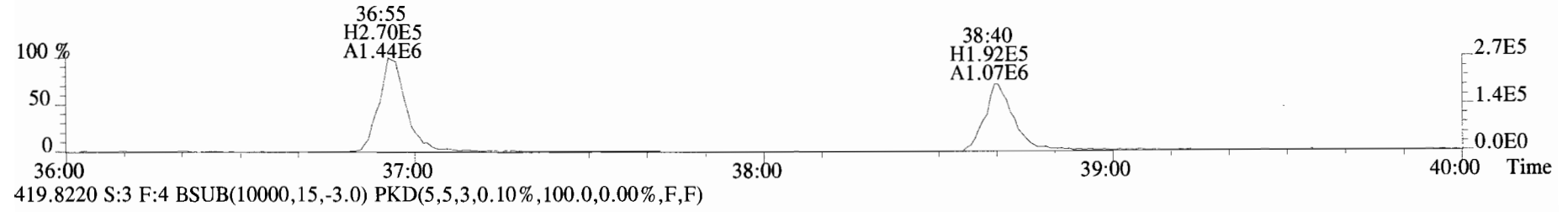
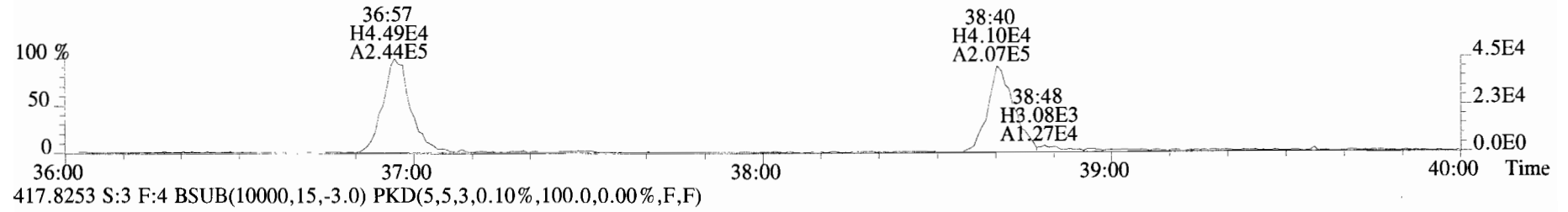
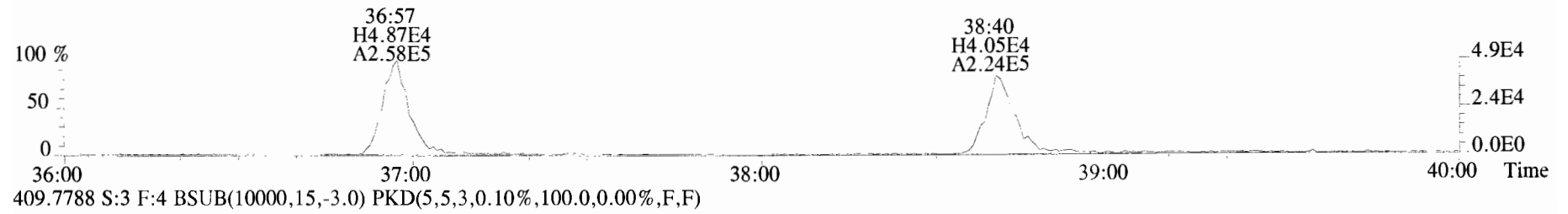
File:191009D1 #1-355 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD_DB5
 373.8207 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



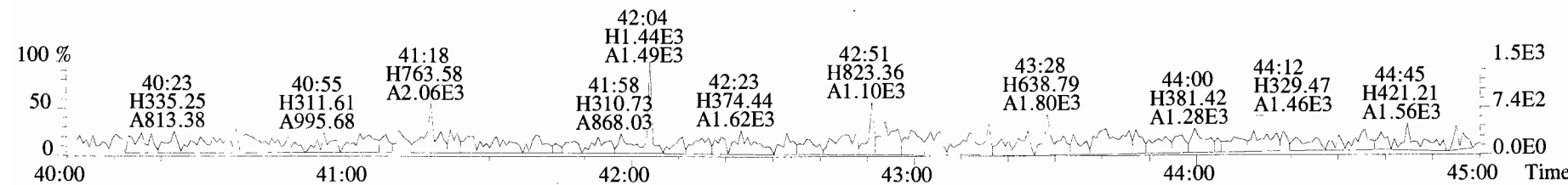
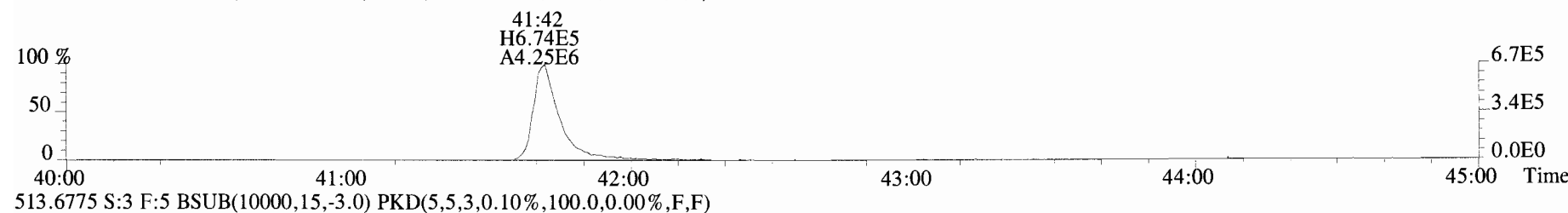
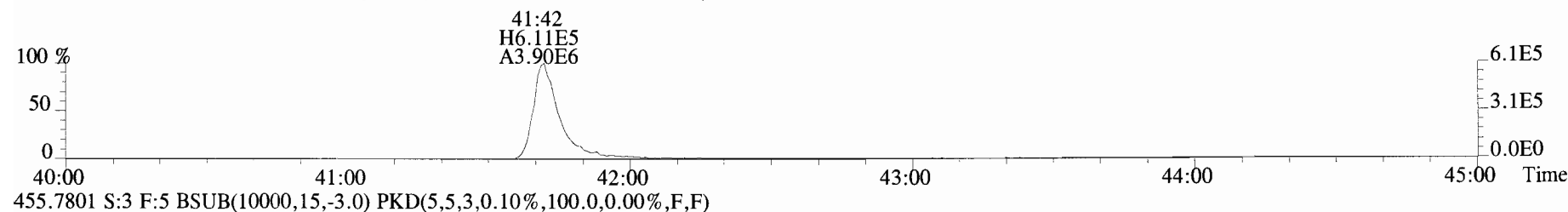
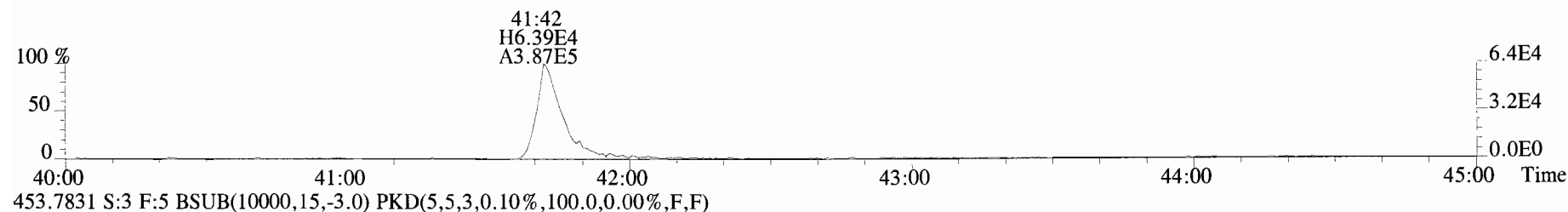
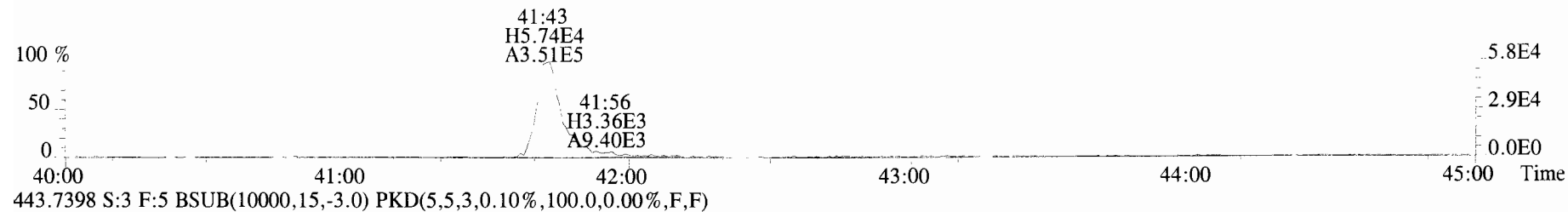
File:191009D1 #1-355 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD_DB5
383.8639 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



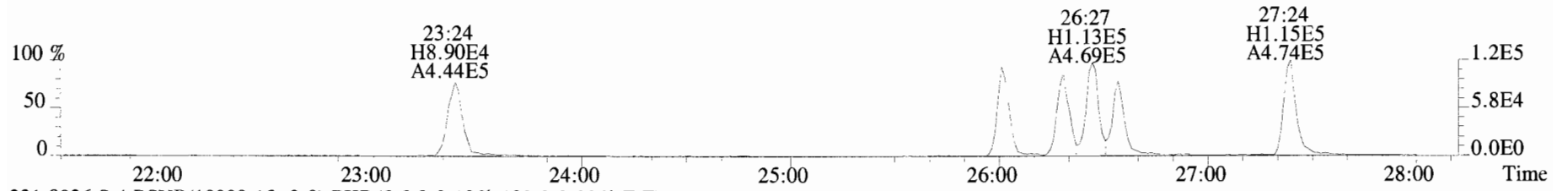
File:191009D1 #1-355 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD_DB5
407.7818 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



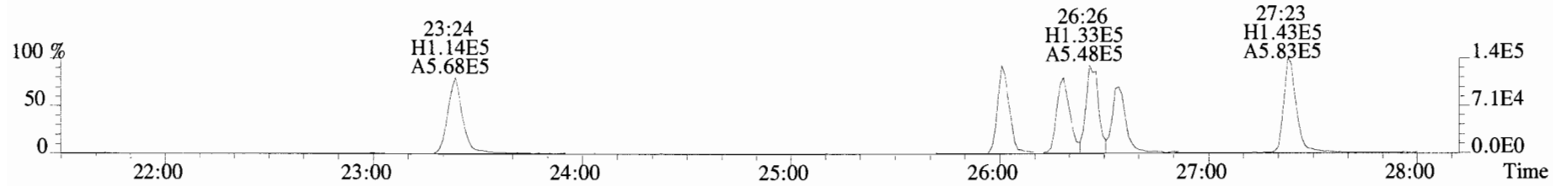
File:191009D1 #1-432 Acq: 9-OCT-2019 17:48:27 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-3 1613 CS2 19C2203 Exp:OCDD_DB5
441.7428 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



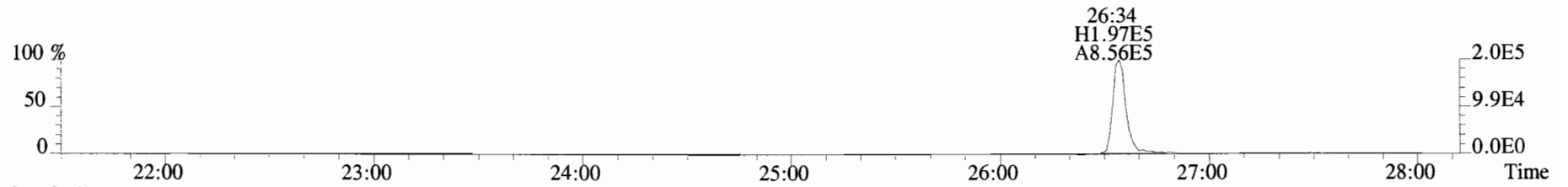
File:191009D1 #1-513 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD_DB5
319.8965 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



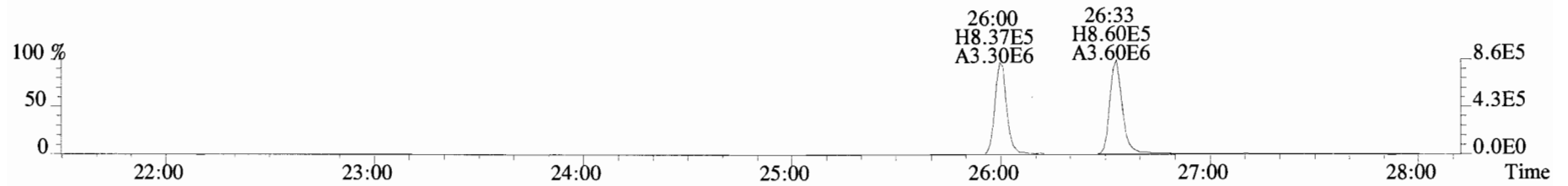
321.8936 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



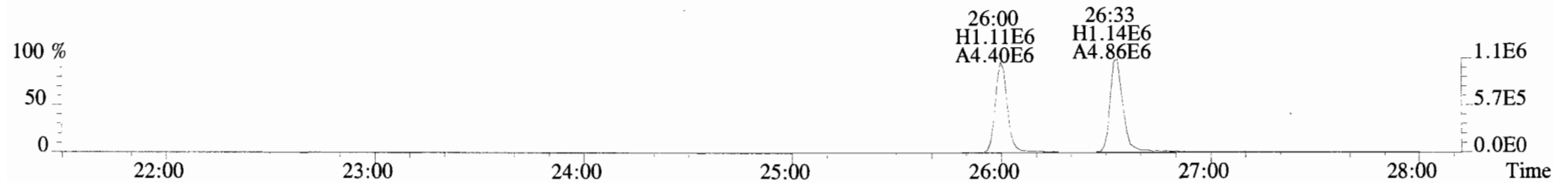
327.8847 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



331.9368 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



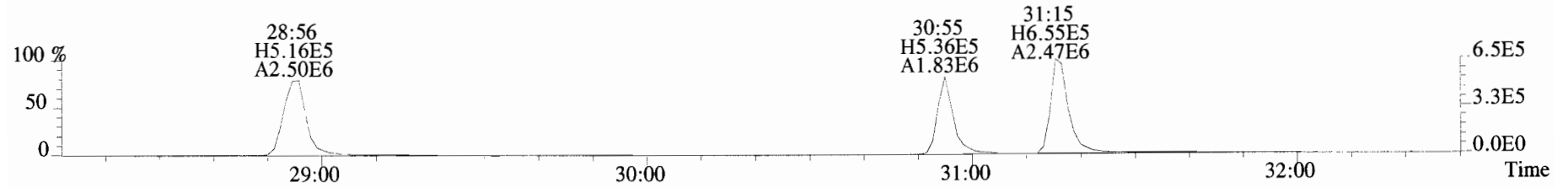
333.9339 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



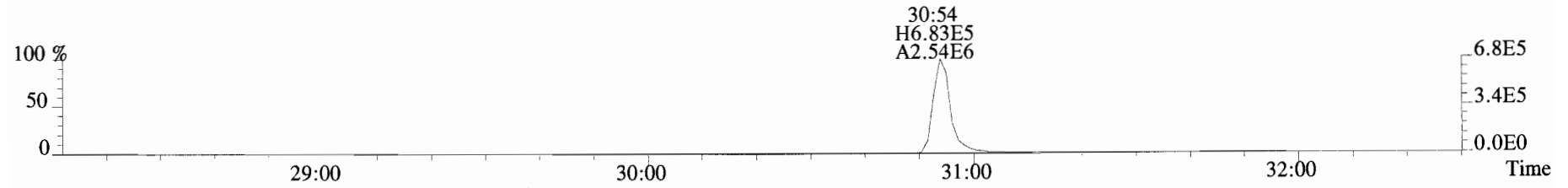
File:191009D1 #1-211 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical_Laboratory_VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD_DB5
353.8576 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



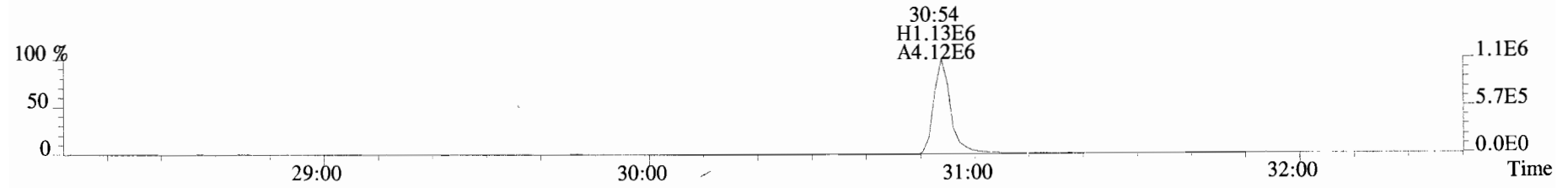
355.8546 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



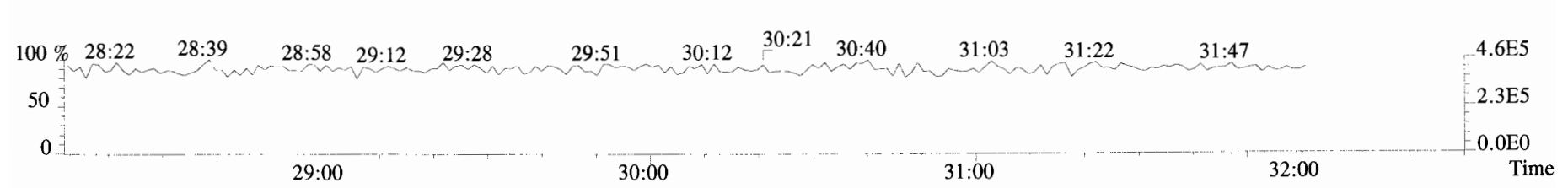
365.8978 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



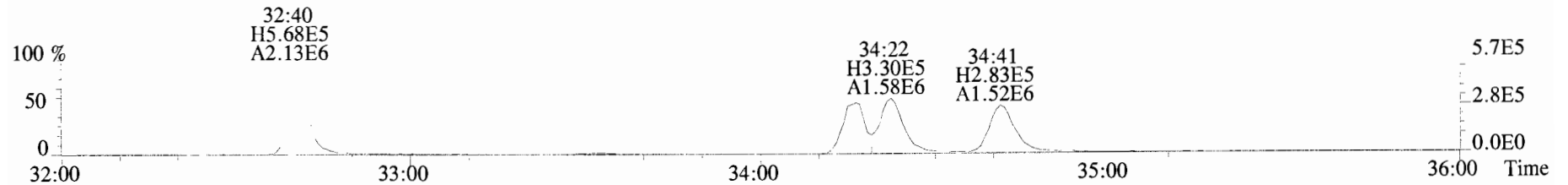
367.8949 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



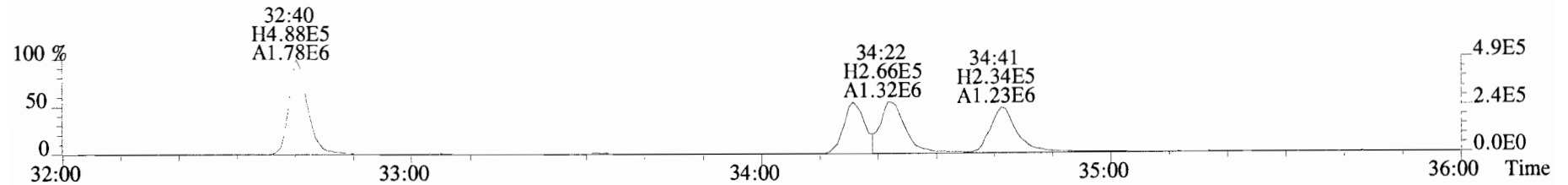
366.9792 S:4 F:2



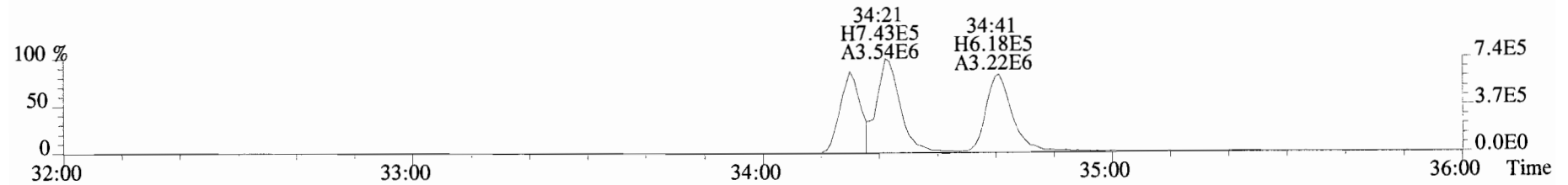
File:191009D1 #1-355 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD_DB5
389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



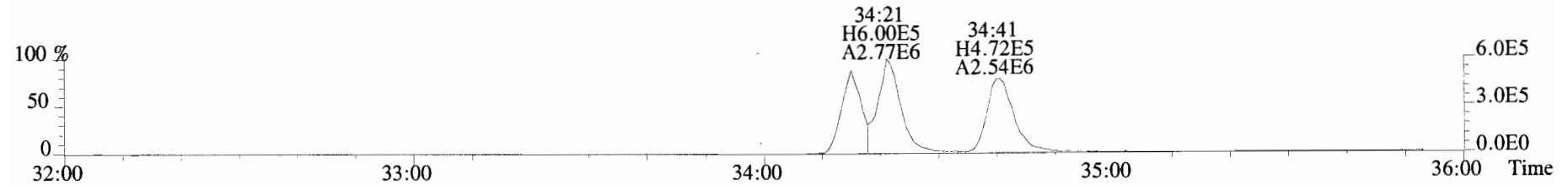
391.8127 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



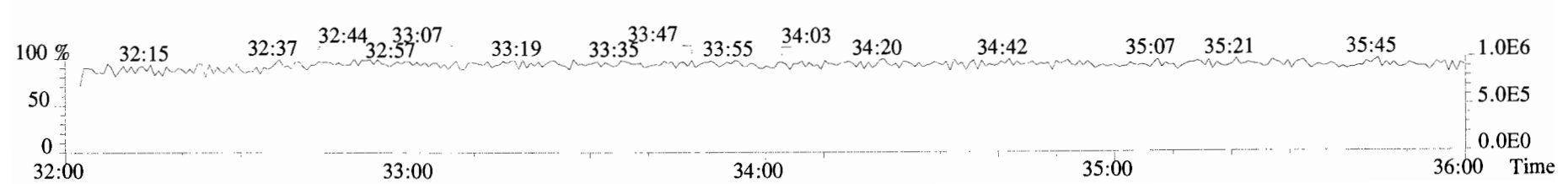
401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



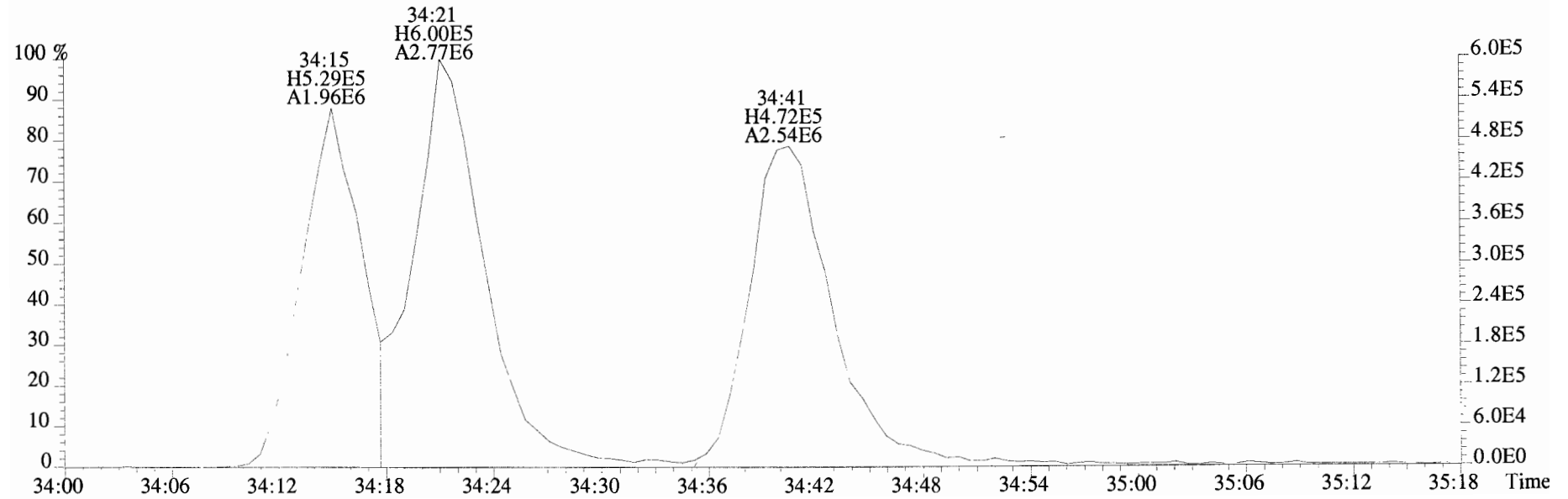
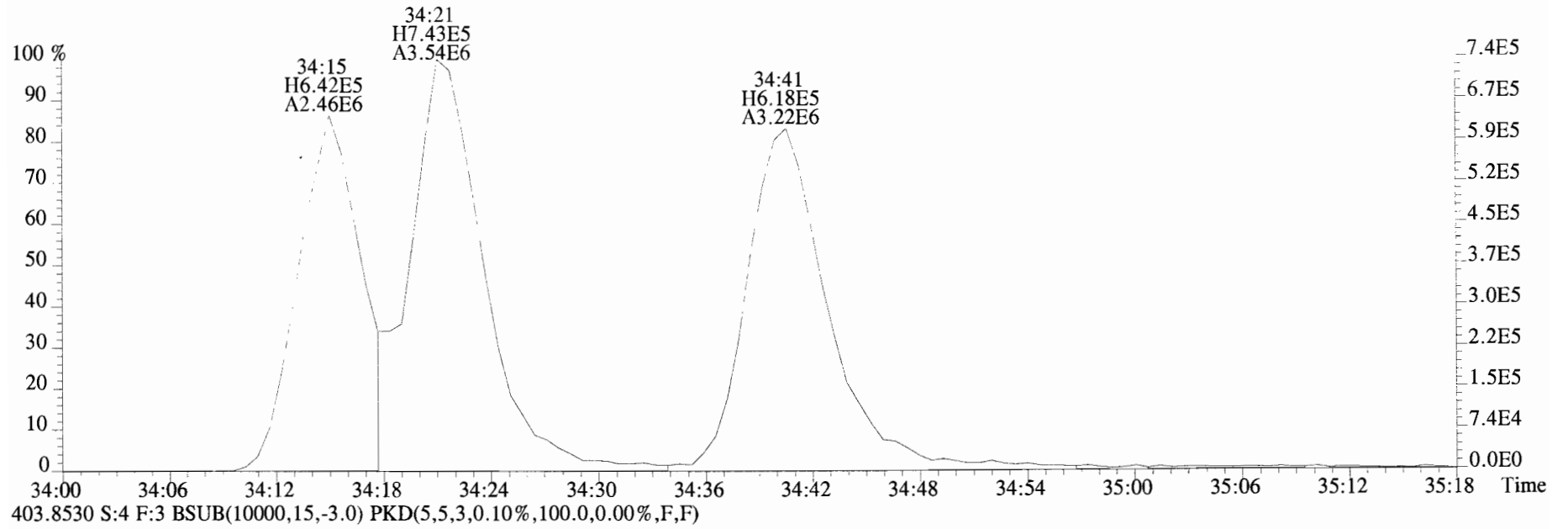
403.8530 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



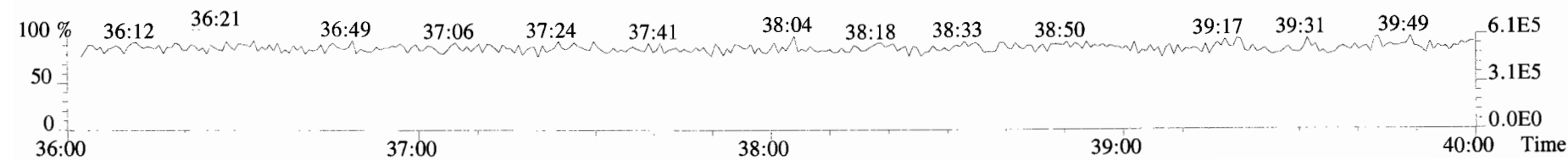
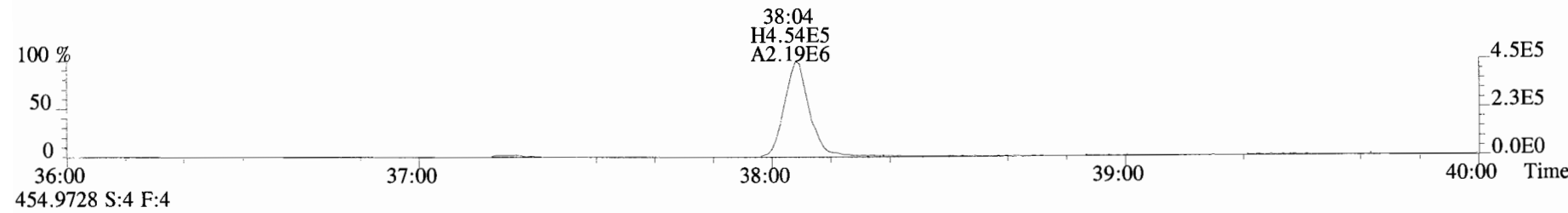
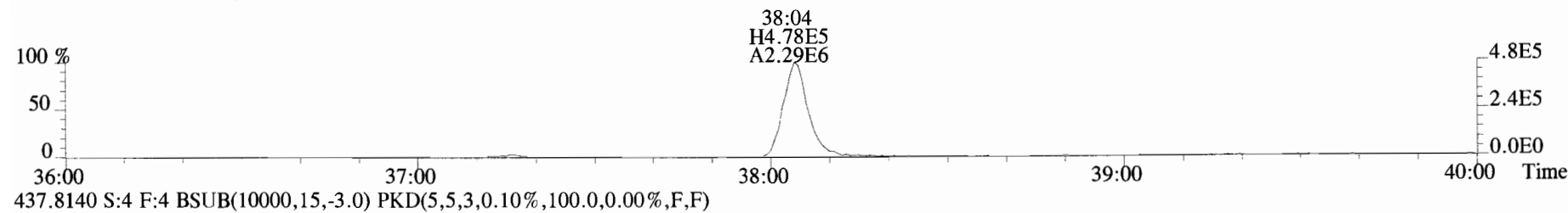
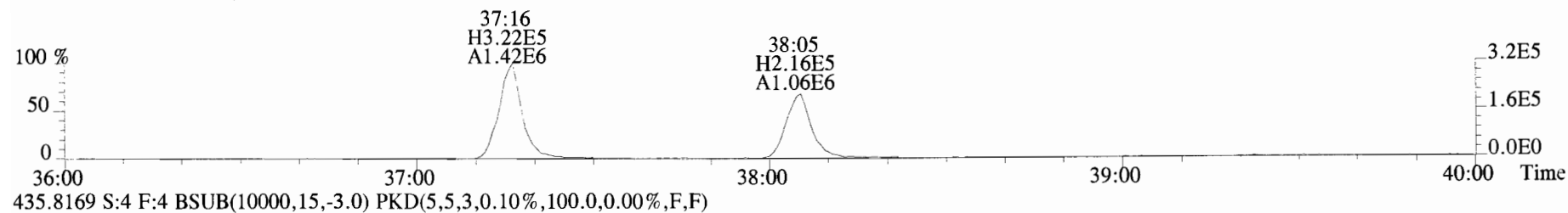
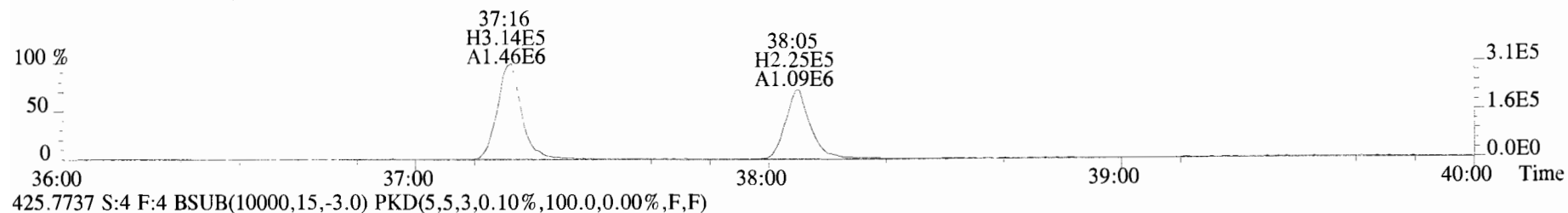
392.9760 S:4 F:3



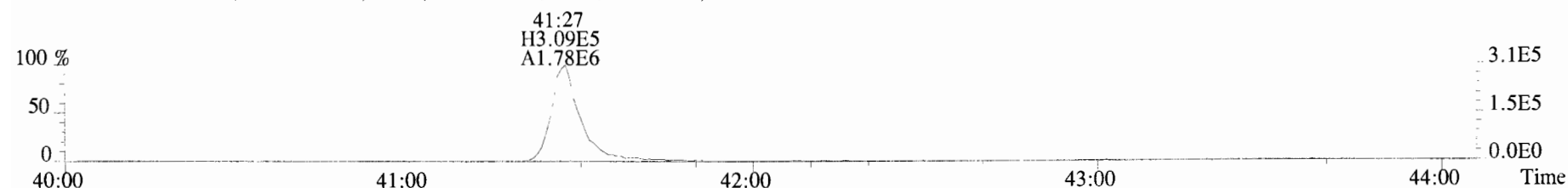
File:191009D1 #1-355 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD_DB5
401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



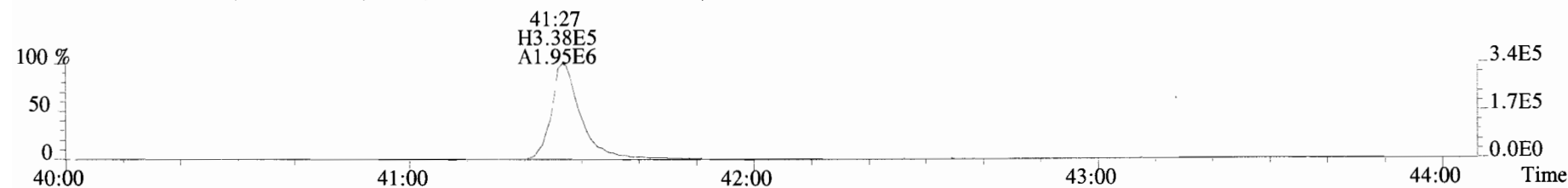
File:191009D1 #1-355 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD_DB5
423.7767 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



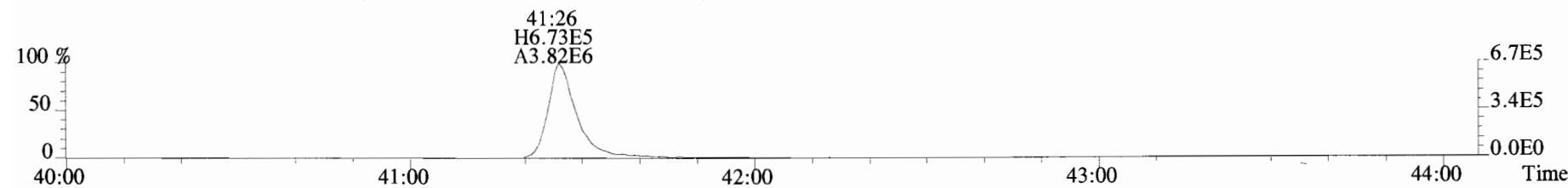
File:191009D1 #1-432 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD_DB5
457.7377 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



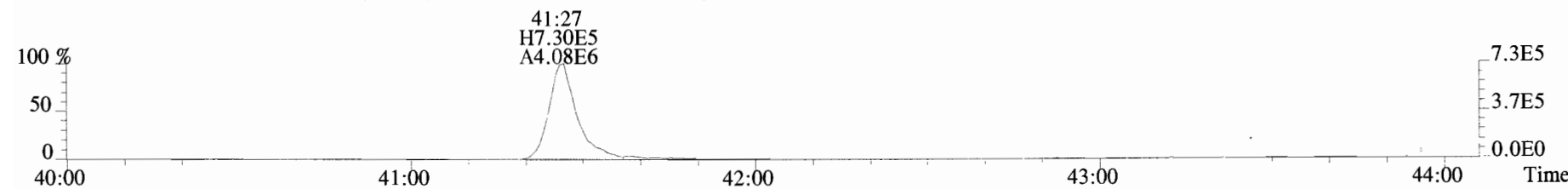
459.7348 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



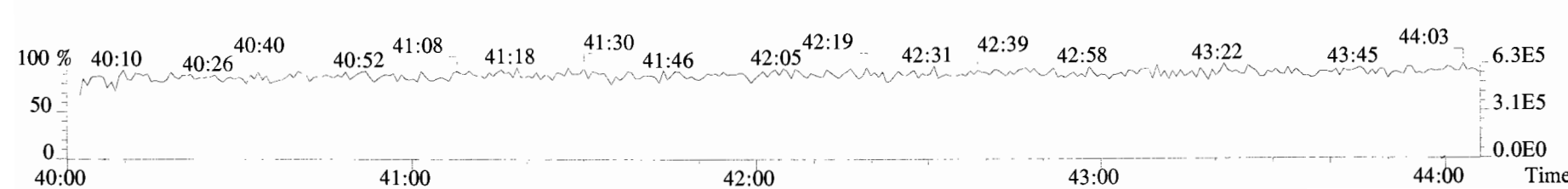
469.7780 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



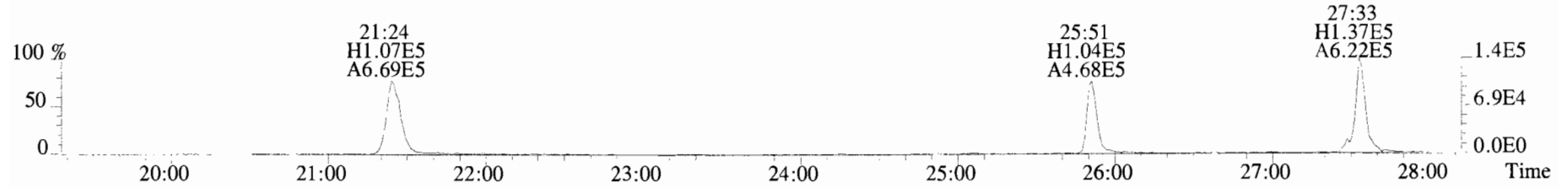
471.7750 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



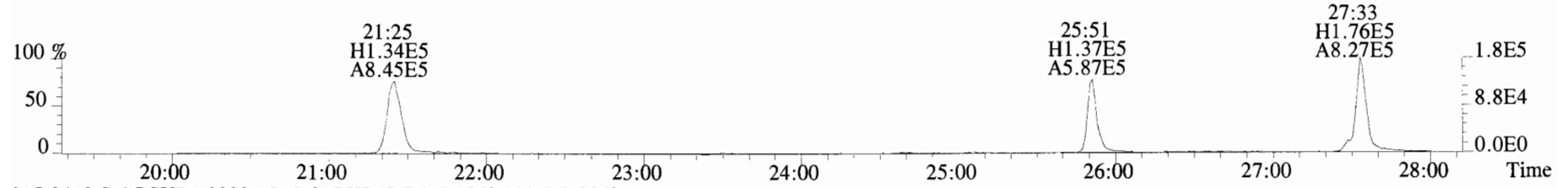
454.9728 S:4 F:5



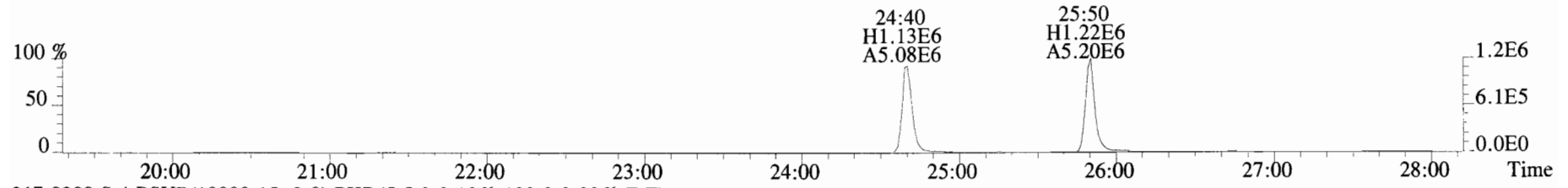
File:191009D1 #1-513 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD_DB5
 303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



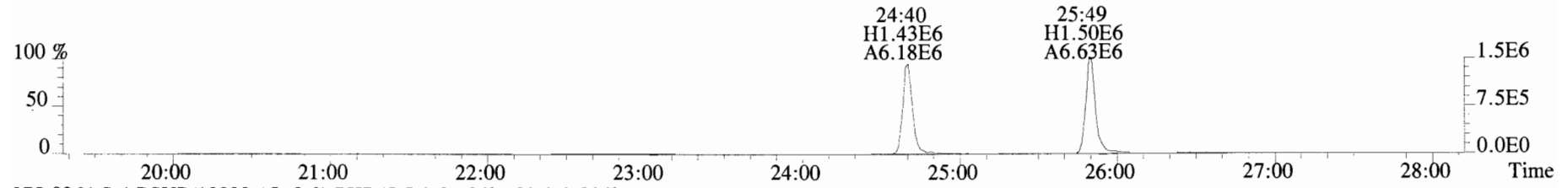
305.8987 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



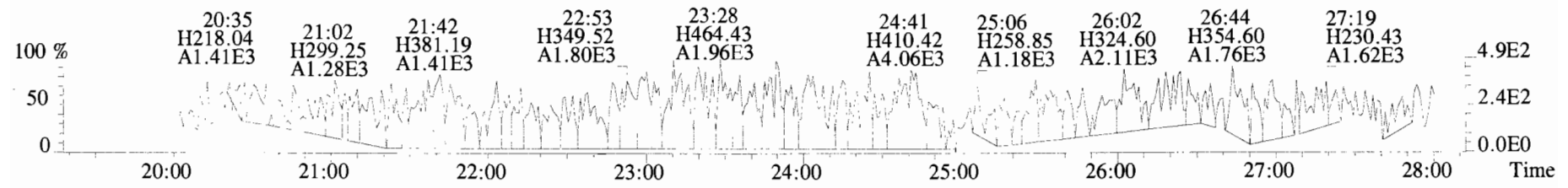
315.9419 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



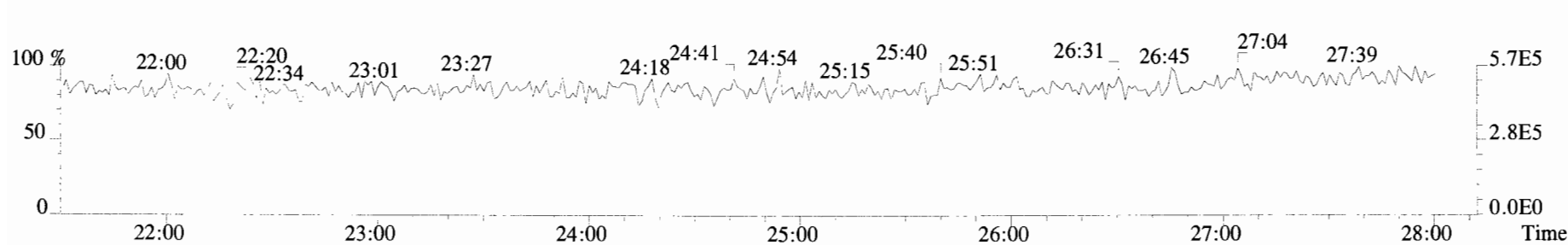
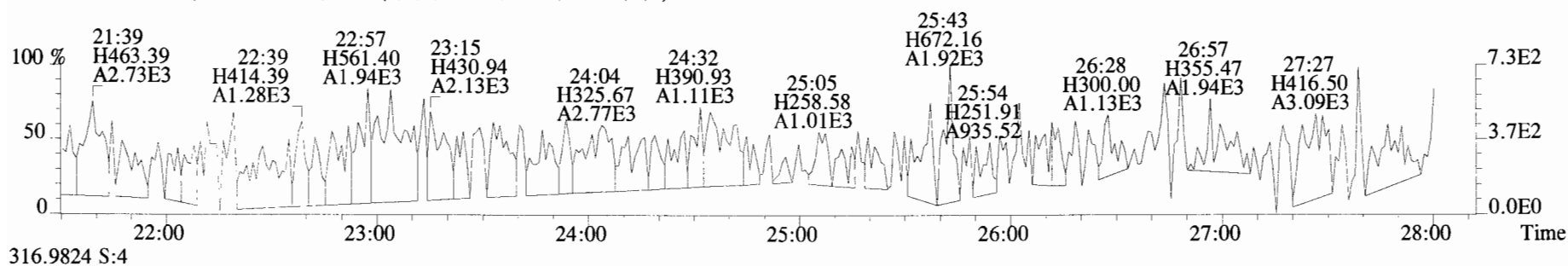
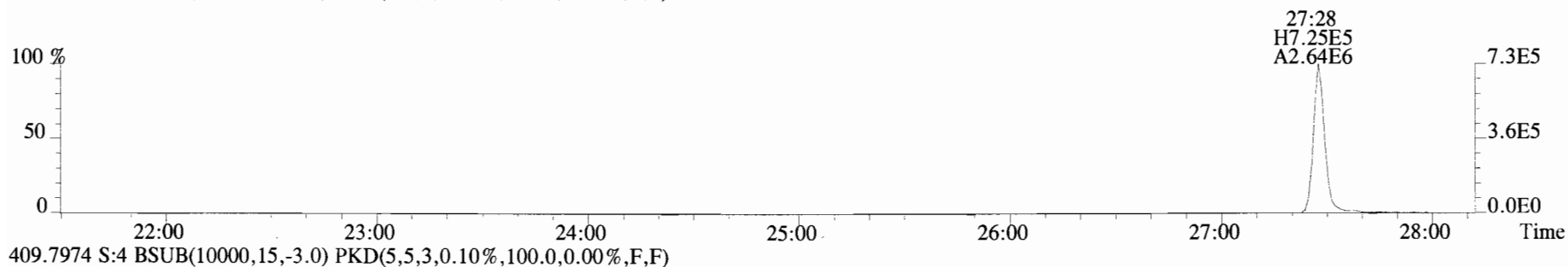
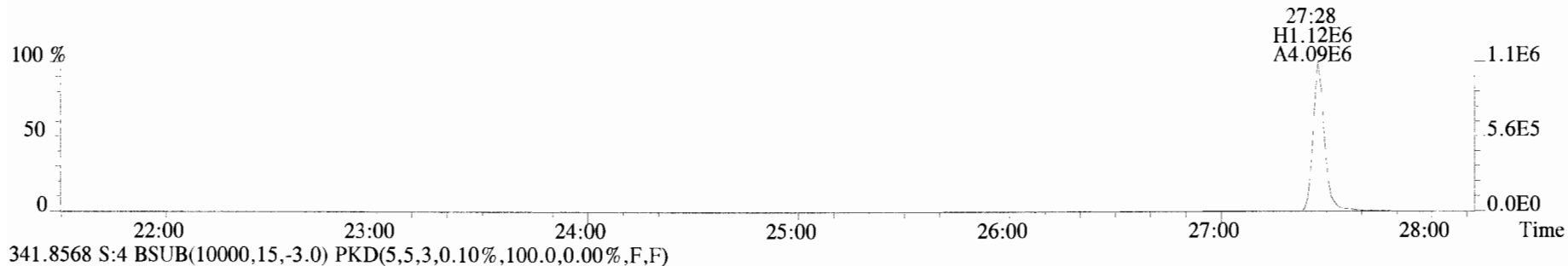
317.9389 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



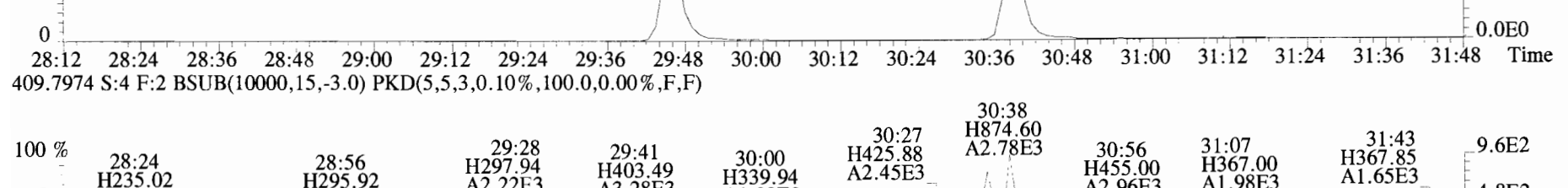
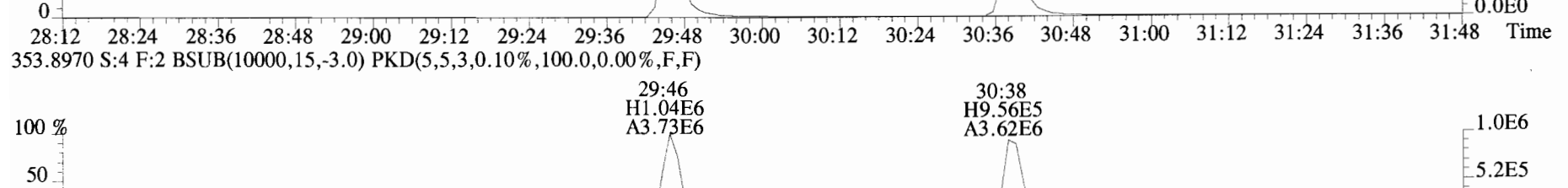
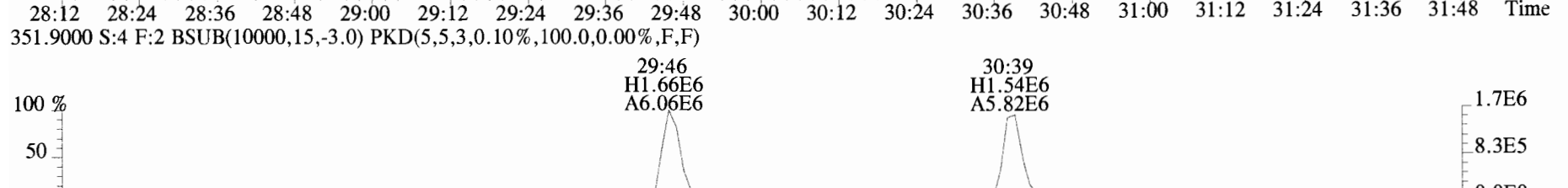
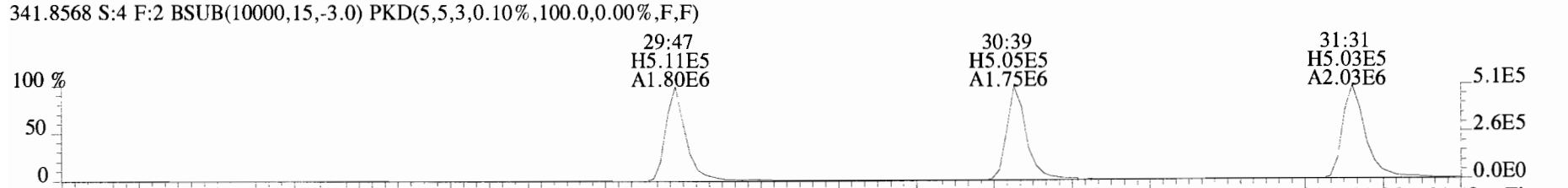
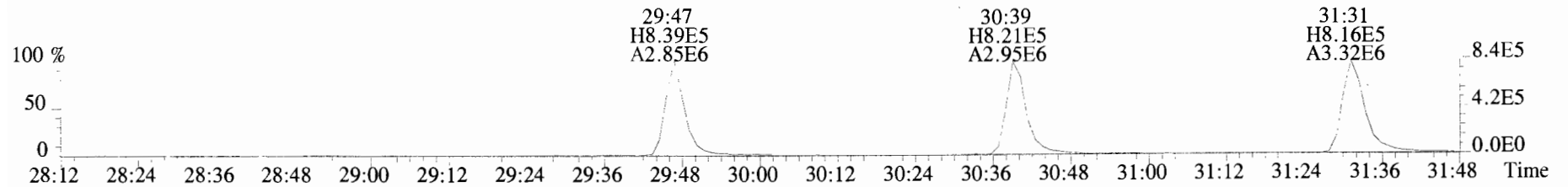
375.8364 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



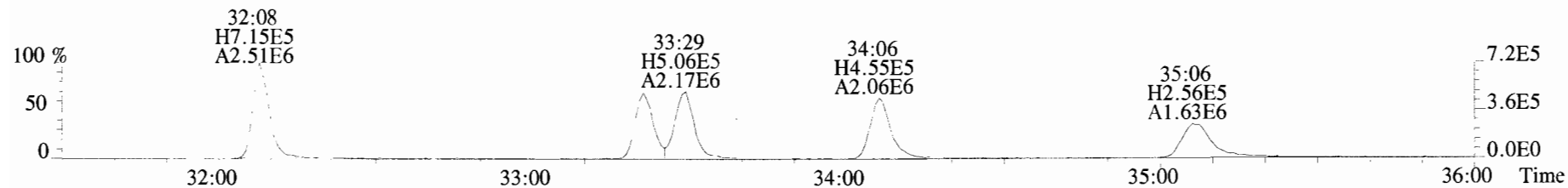
File:191009D1 #1-513 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD_DB5
339.8597 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



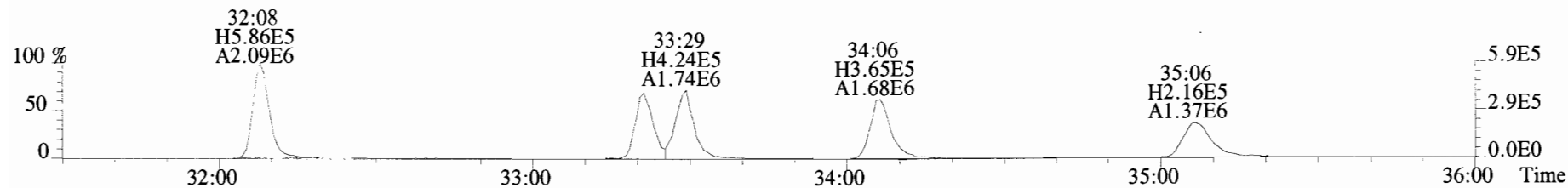
File:191009D1 #1-211 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD_DB5
339.8597 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



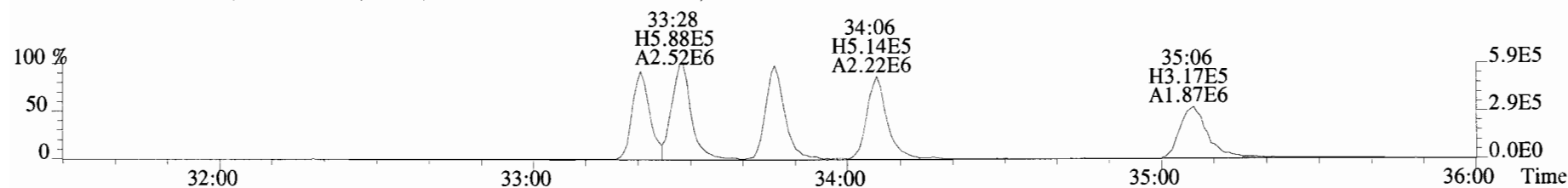
File:191009D1 #1-355 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD_DB5
373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



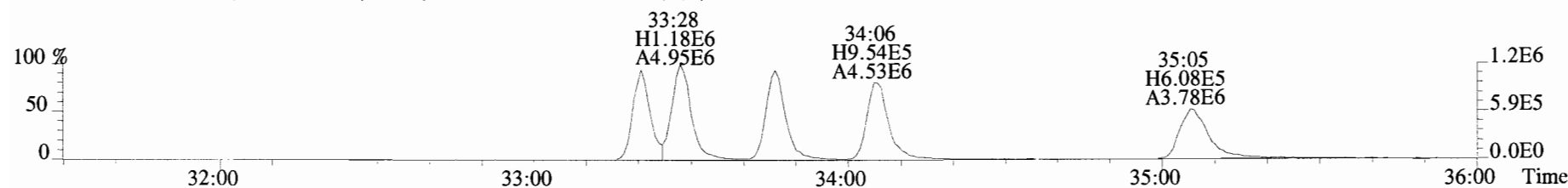
375.8178 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



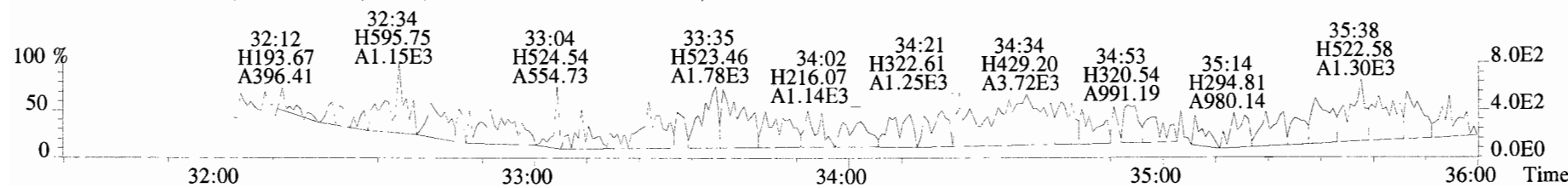
383.8639 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



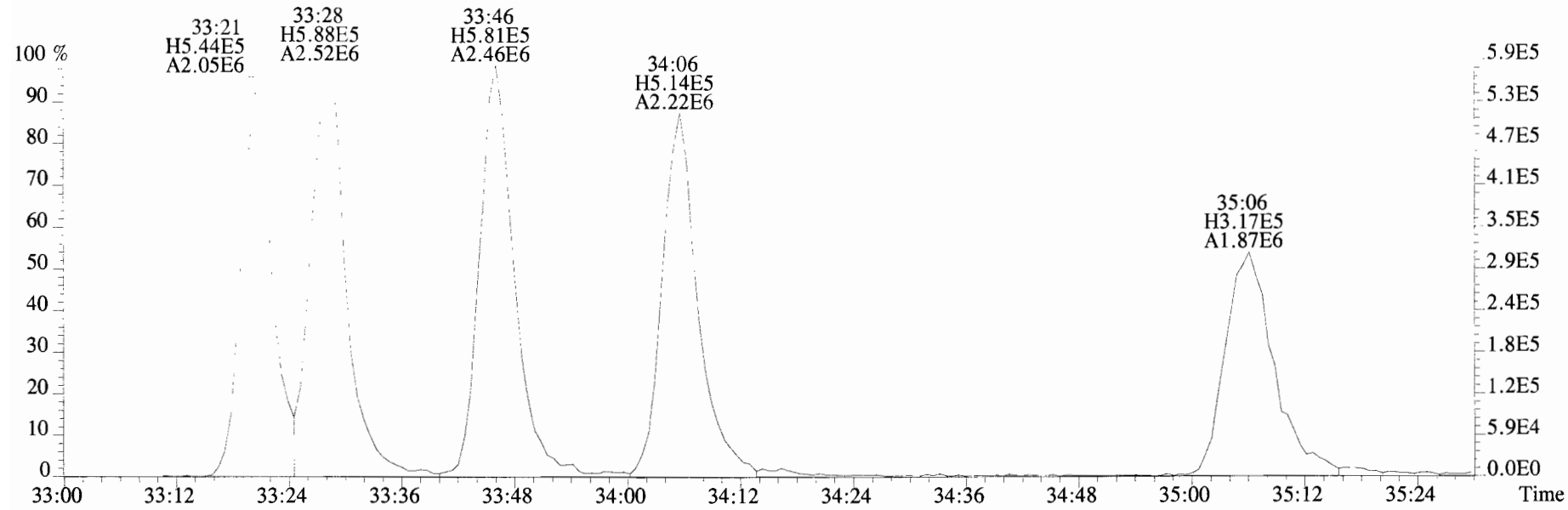
385.8610 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



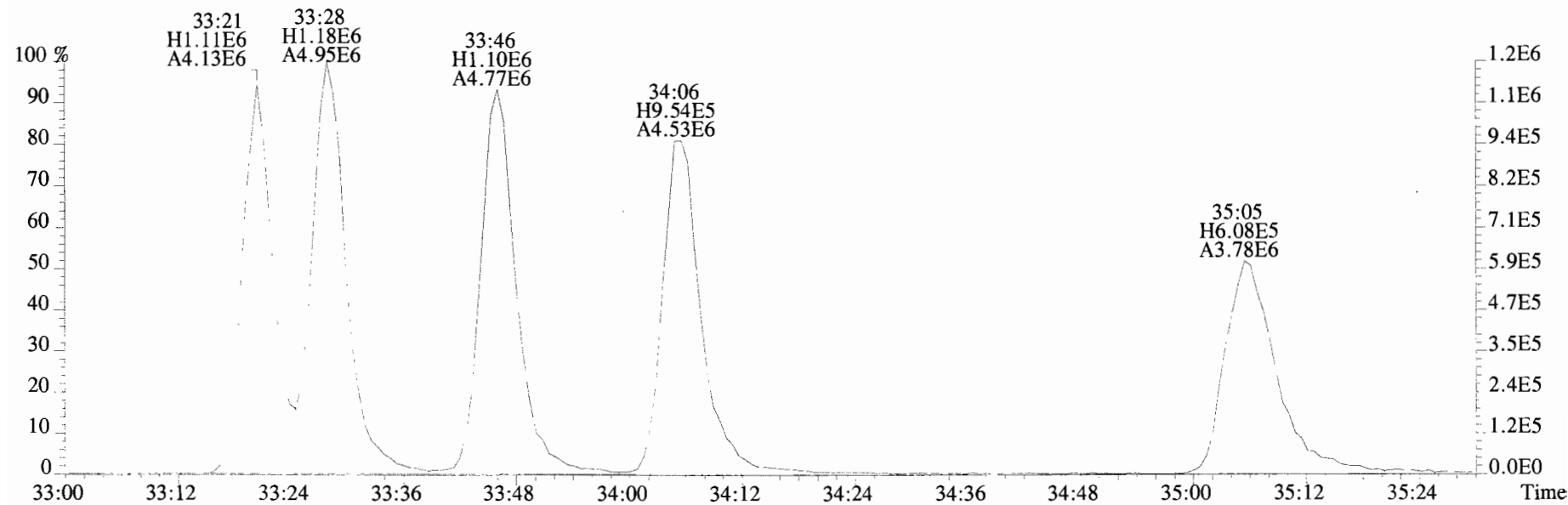
445.7555 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



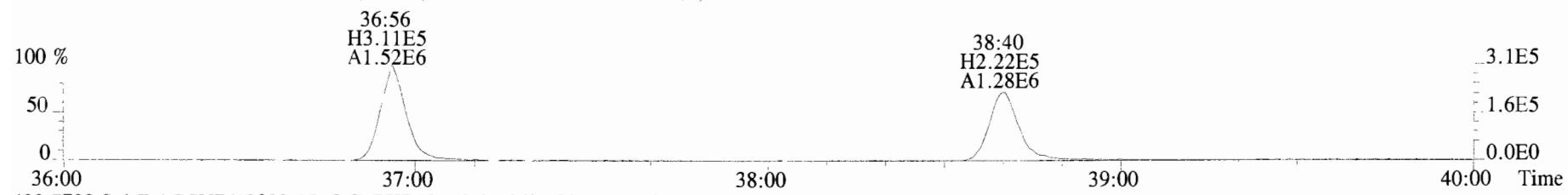
File:191009D1 #1-355 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD_DB5
 383.8639 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



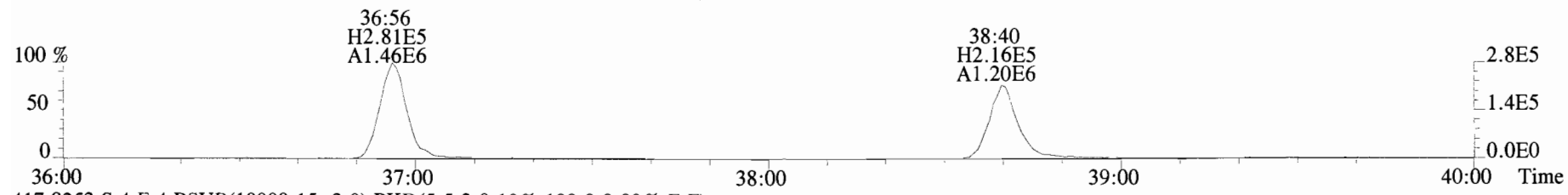
385.8610 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



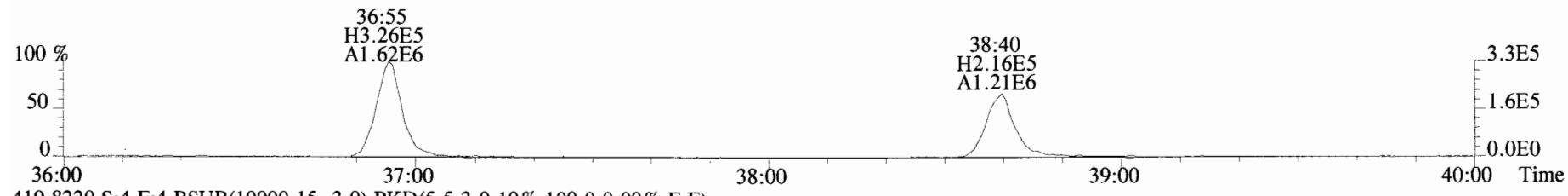
File:191009D1 #1-355 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD_DB5
 407.7818 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



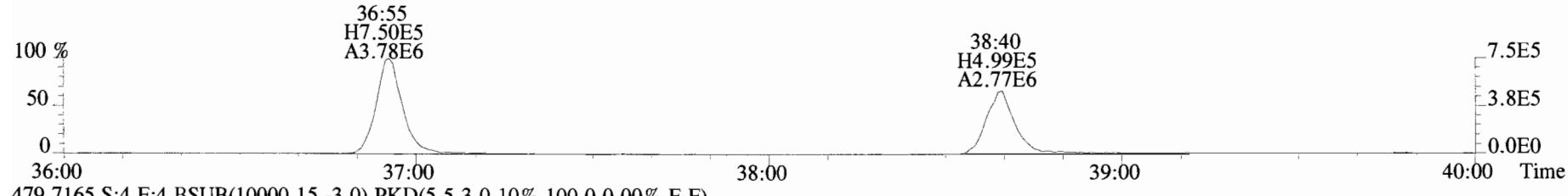
409.7788 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



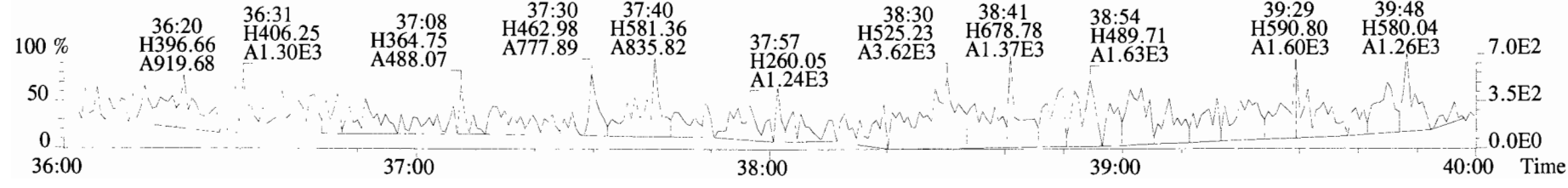
417.8253 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



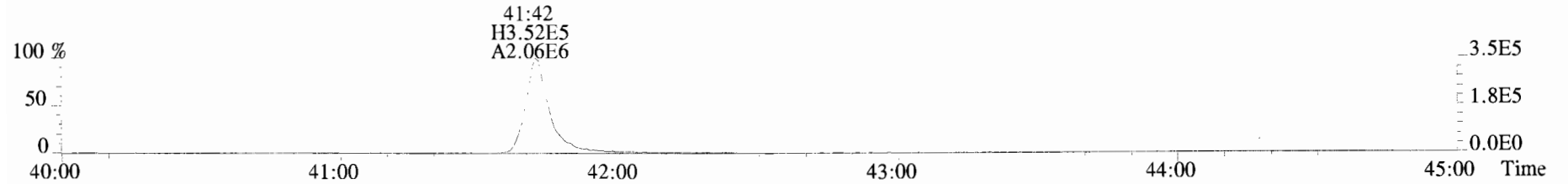
419.8220 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



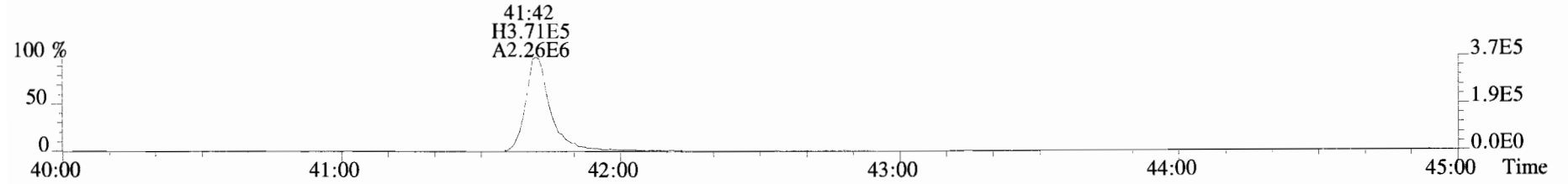
479.7165 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



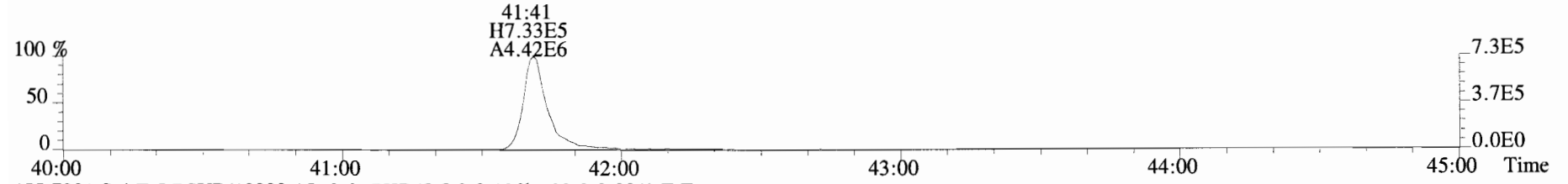
File:191009D1 #1-432 Acq: 9-OCT-2019 18:36:09 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical_Laboratory_VG7 Text:ST191009D1-4 1613 CS3 19C2204 Exp:OCDD_DB5
441.7428 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



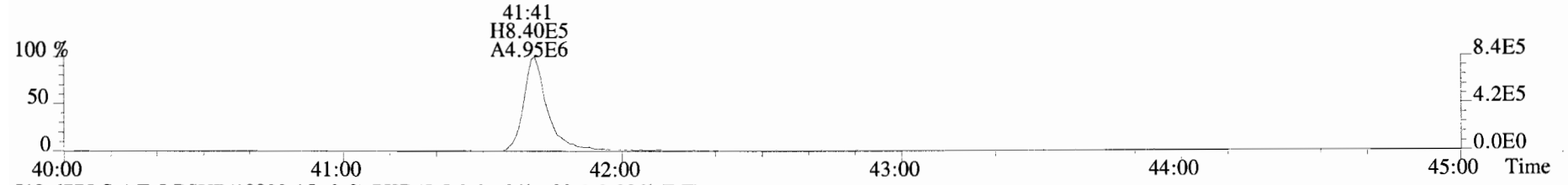
443.7398 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



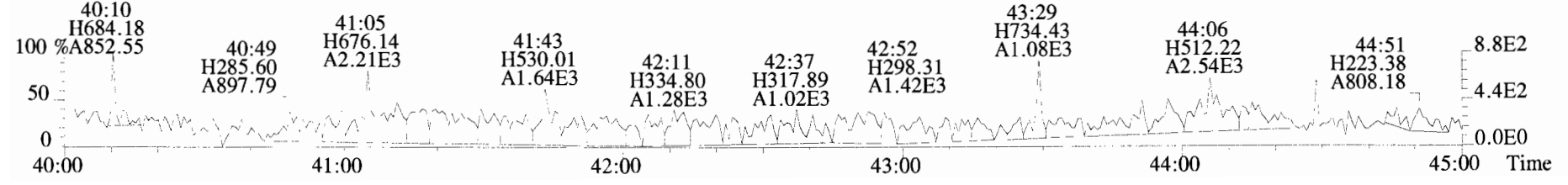
453.7831 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



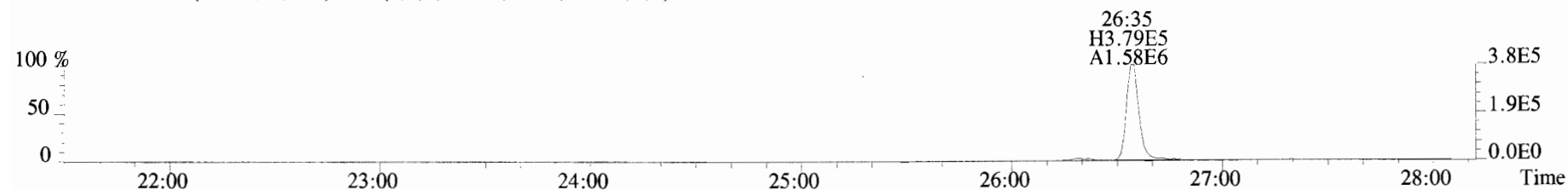
455.7801 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



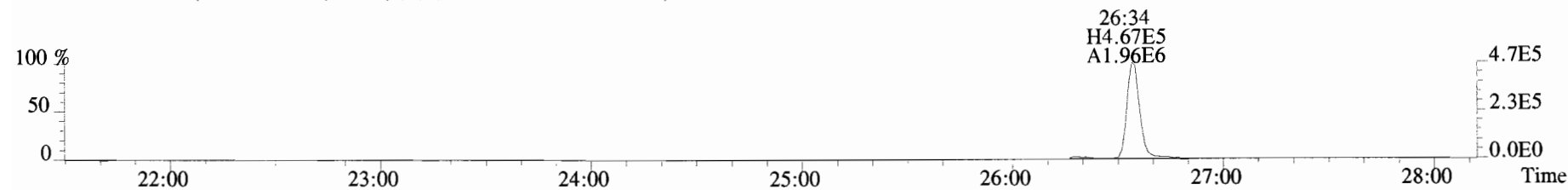
513.6775 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



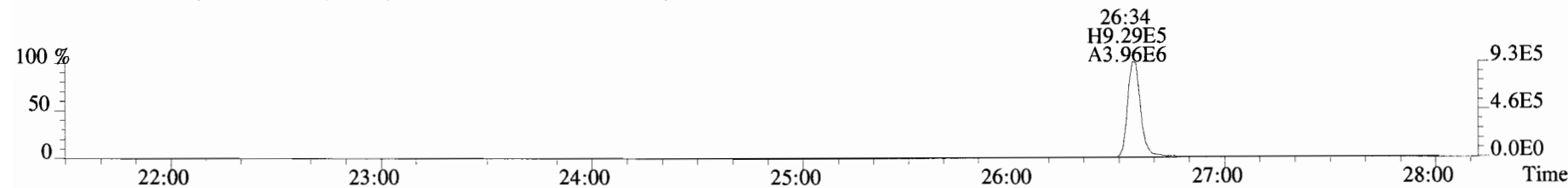
File:191009D1 #1-514 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD_DB5
319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



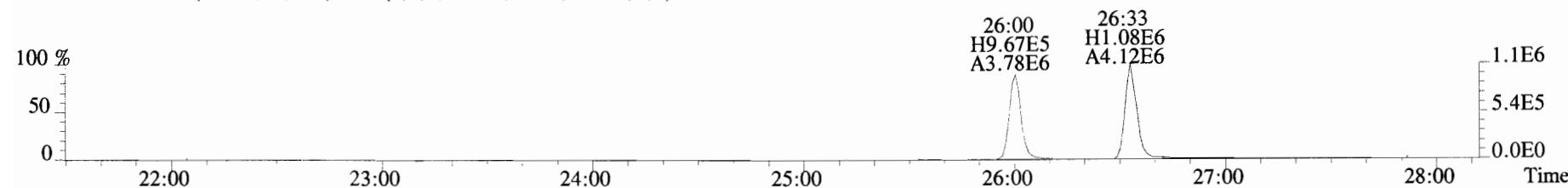
321.8936 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



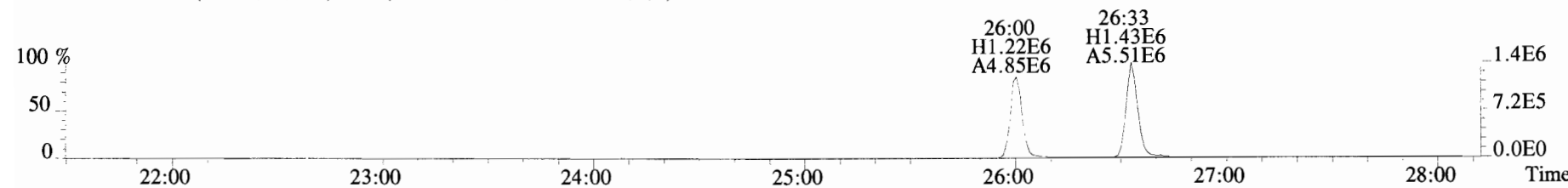
327.8847 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



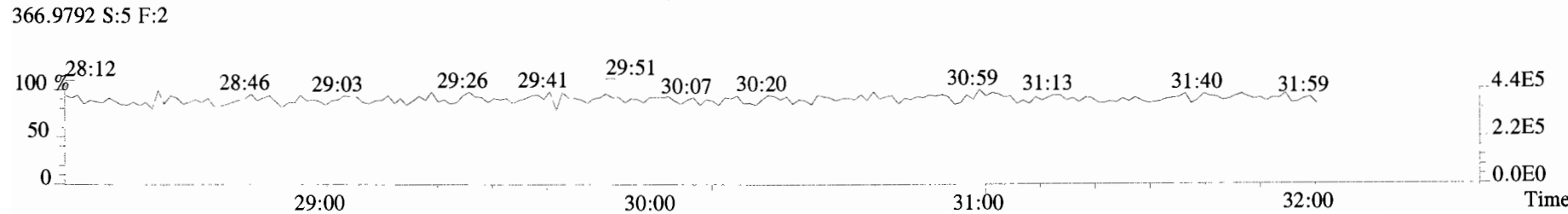
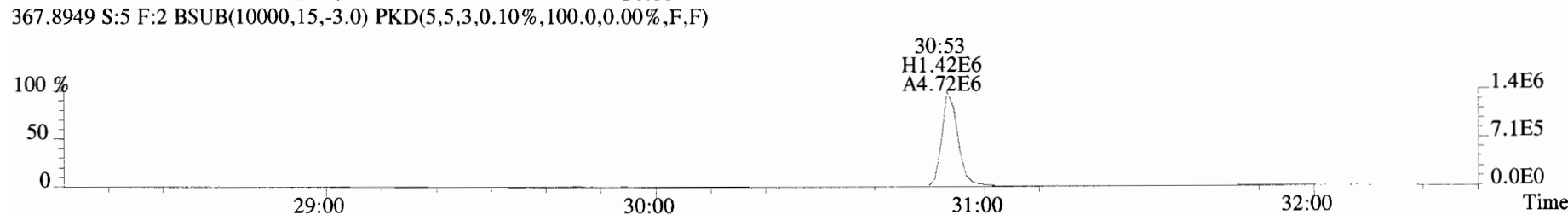
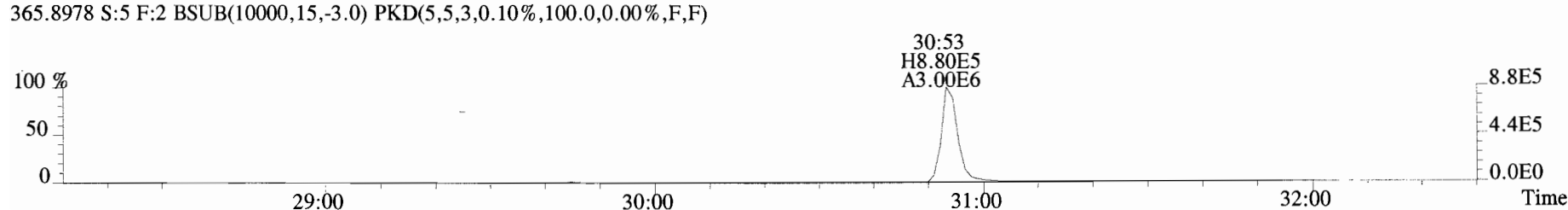
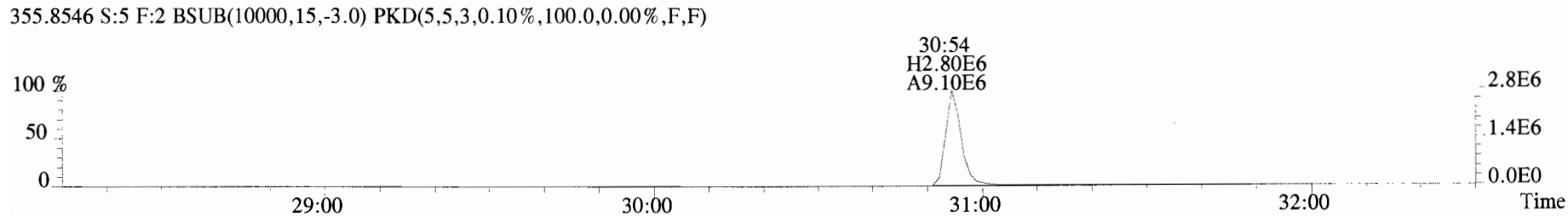
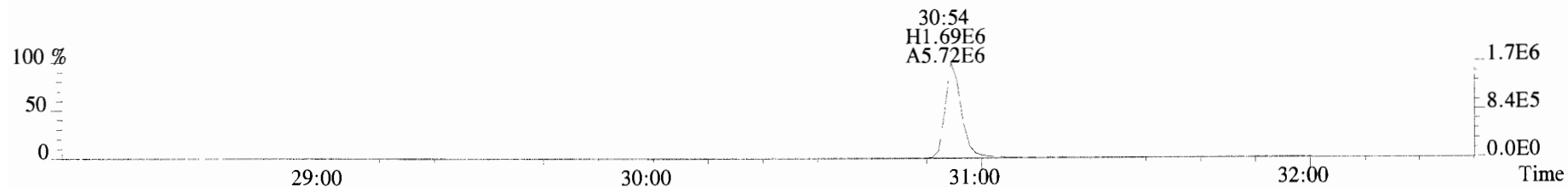
331.9368 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



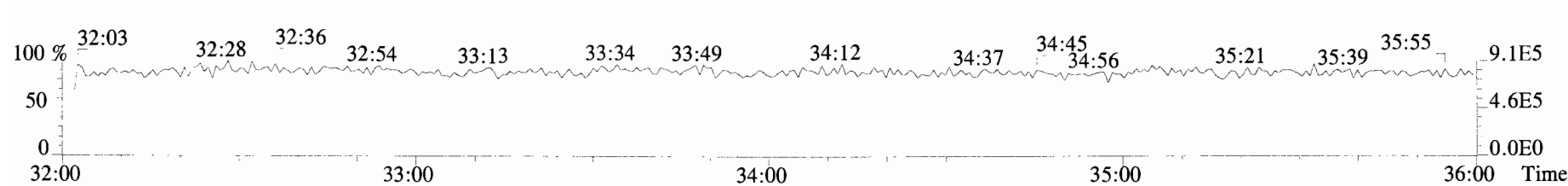
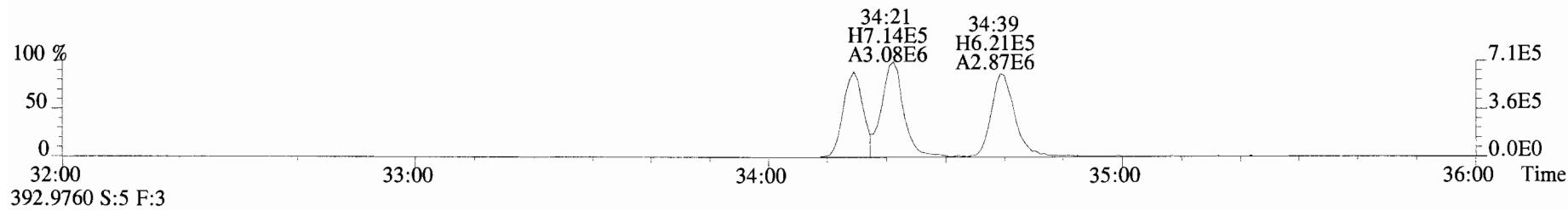
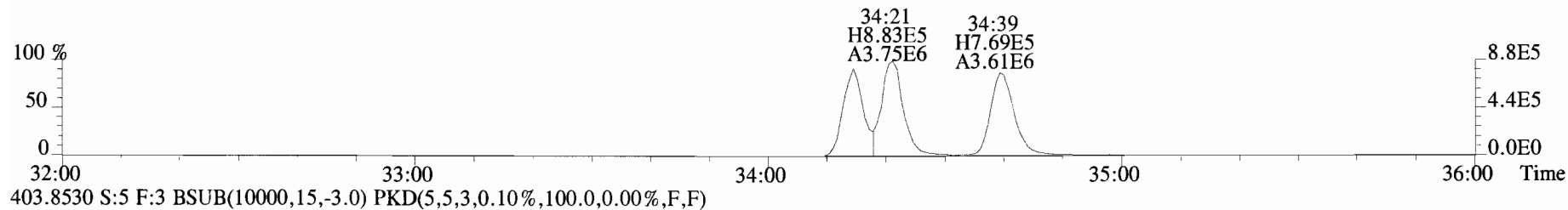
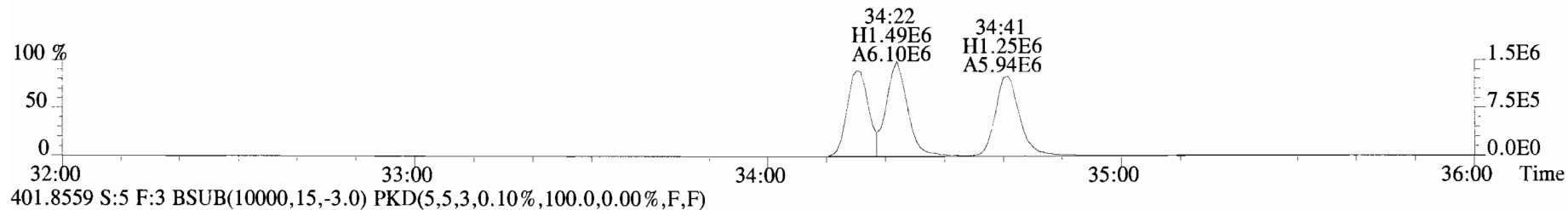
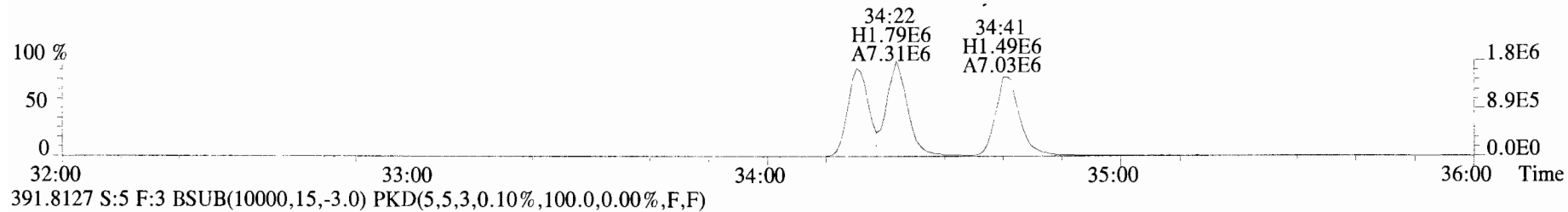
333.9339 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



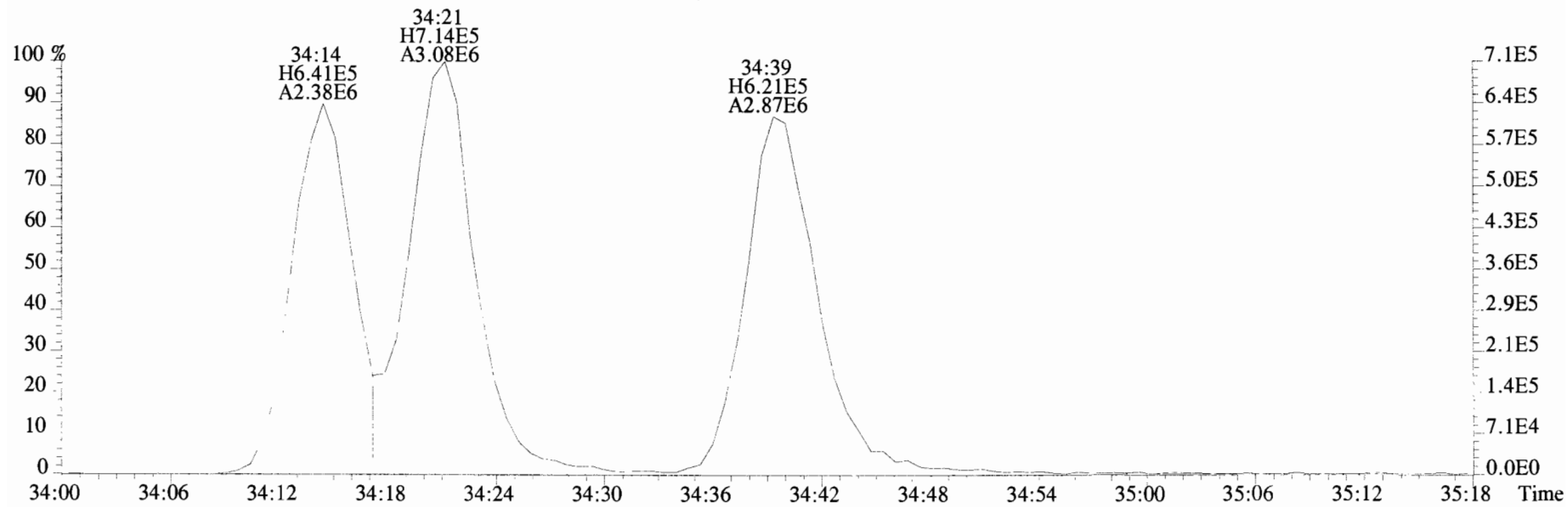
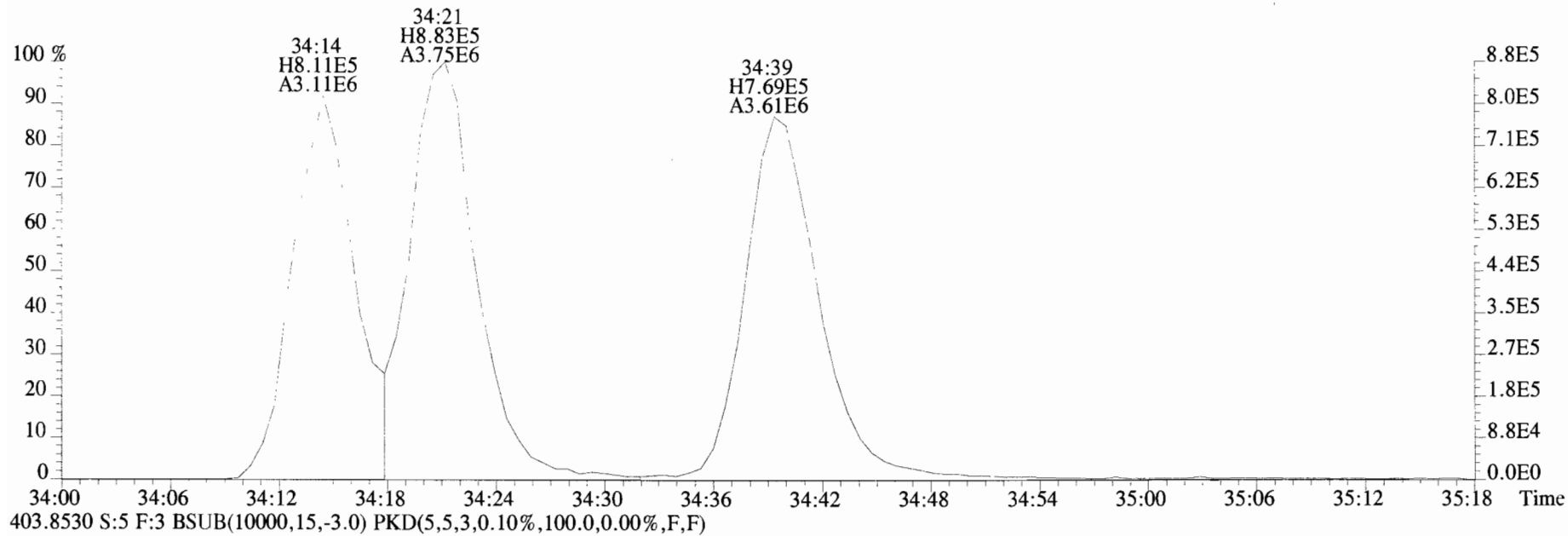
File:191009D1 #1-210 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text: Vista Analytical Laboratory_VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD_DB5
353.8576 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



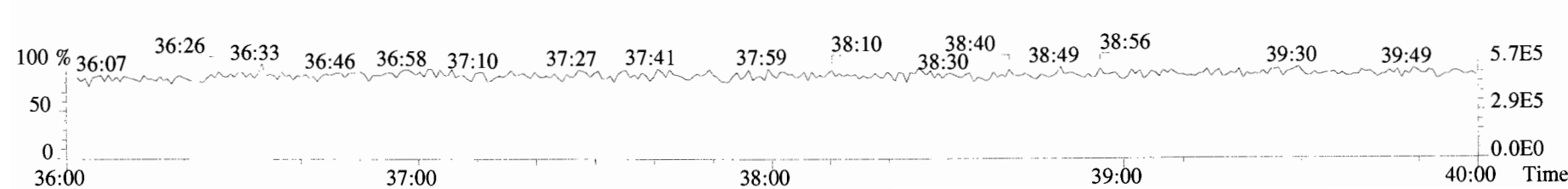
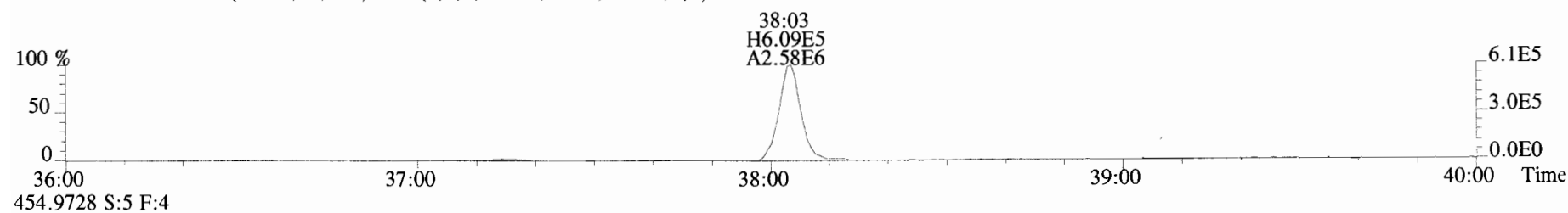
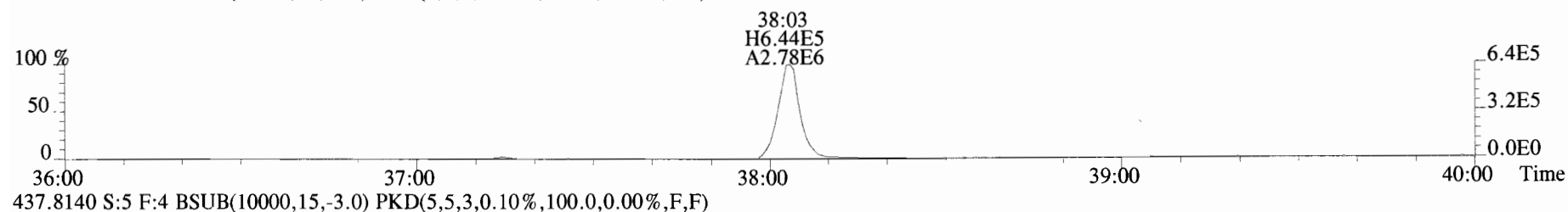
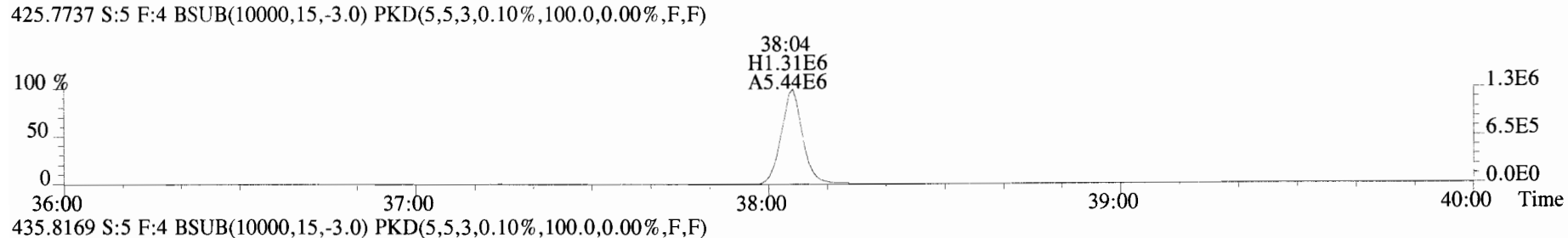
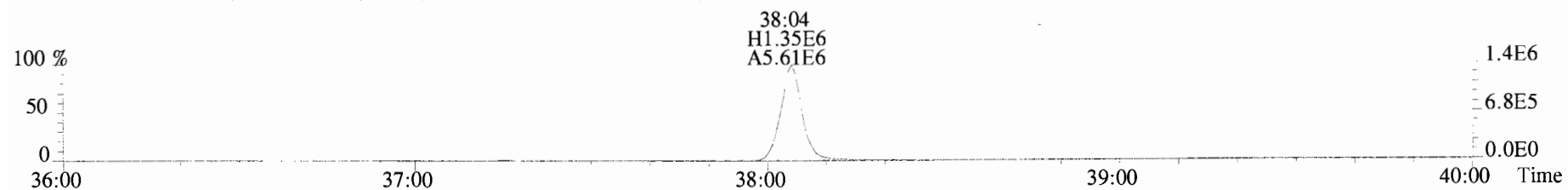
File:191009D1 #1-355 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD_DB5
389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



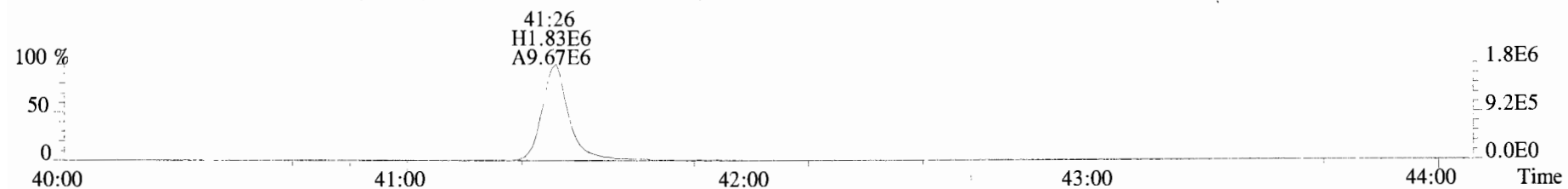
File:191009D1 #1-355 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text: Vista Analytical Laboratory VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD_DB5
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



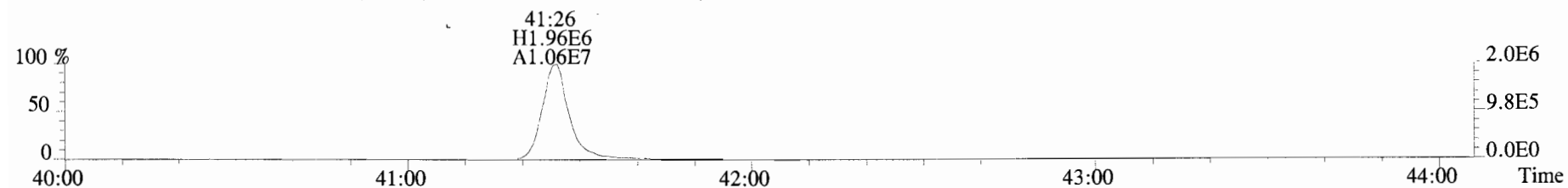
File:191009D1 #1-356 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text: Vista Analytical Laboratory_VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD_DB5
423.7767 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



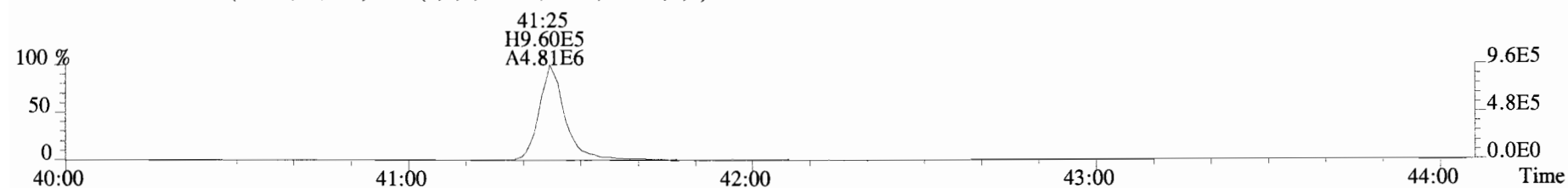
File:191009D1 #1-431 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD_DB5
457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



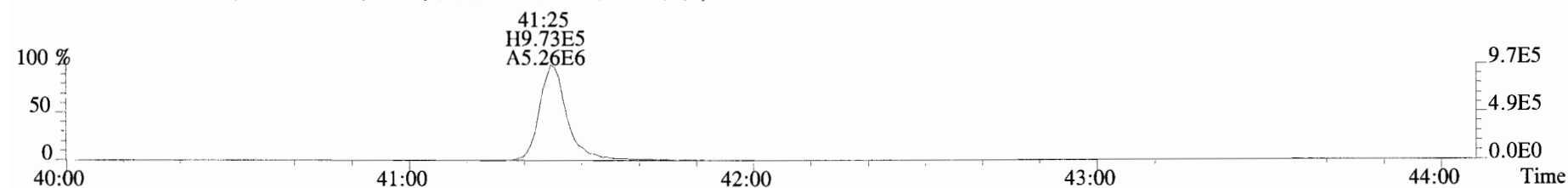
459.7348 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



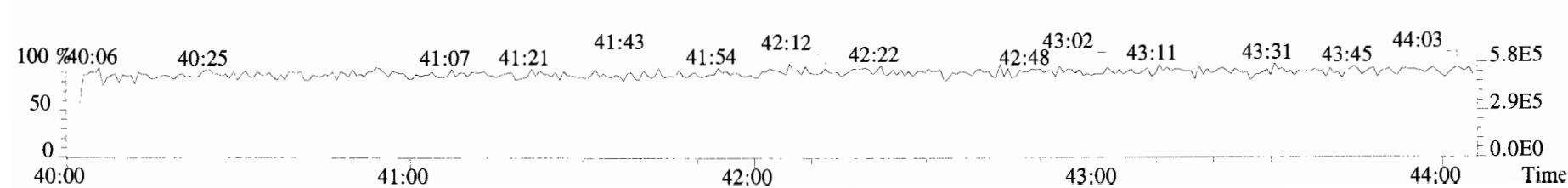
469.7780 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



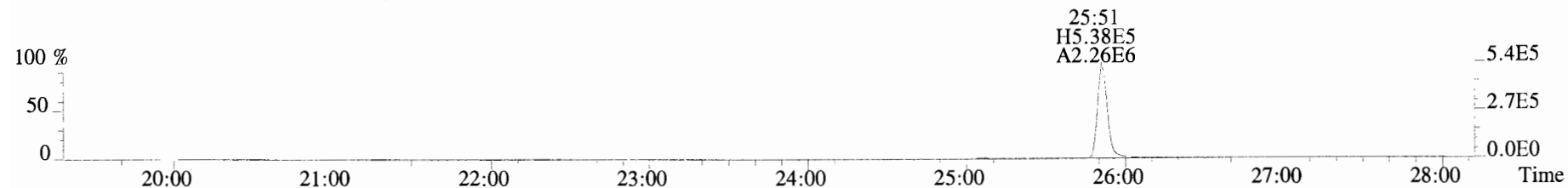
471.7750 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



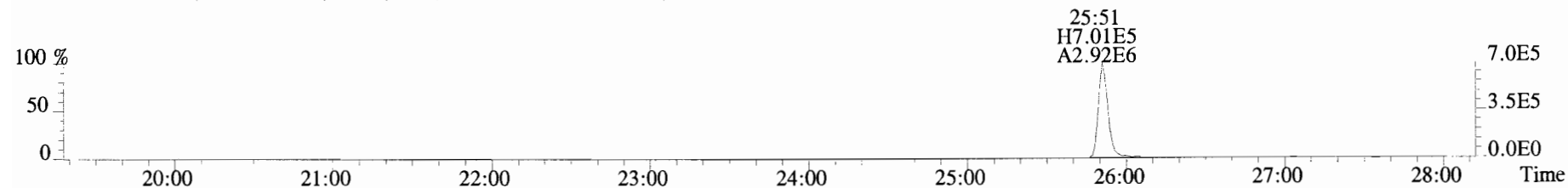
454.9728 S:5 F:5



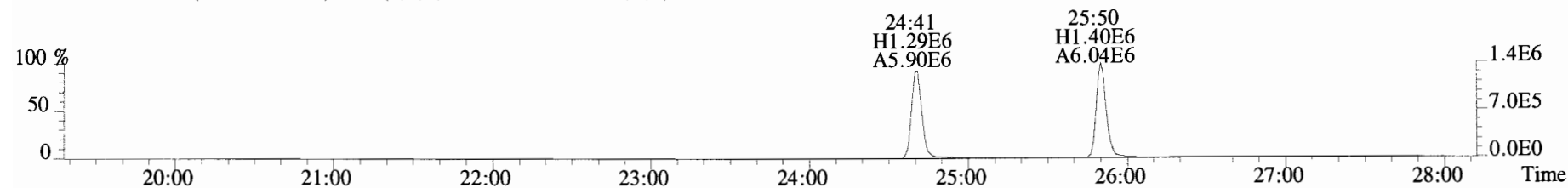
File:191009D1 #1-514 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD_DB5
303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



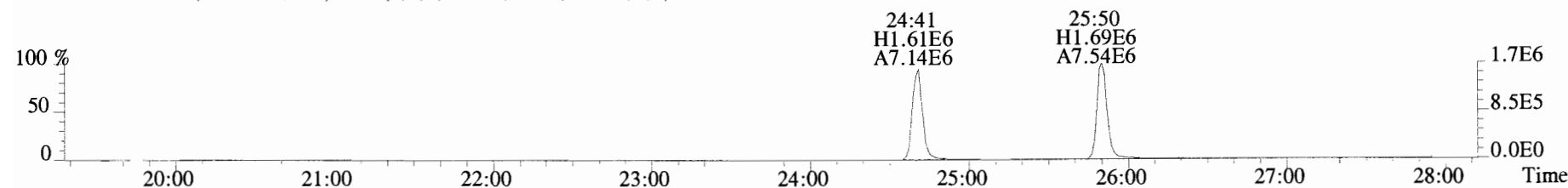
305.8987 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



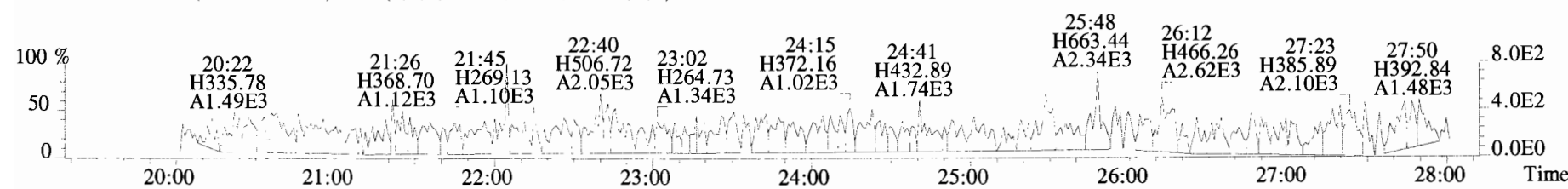
315.9419 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



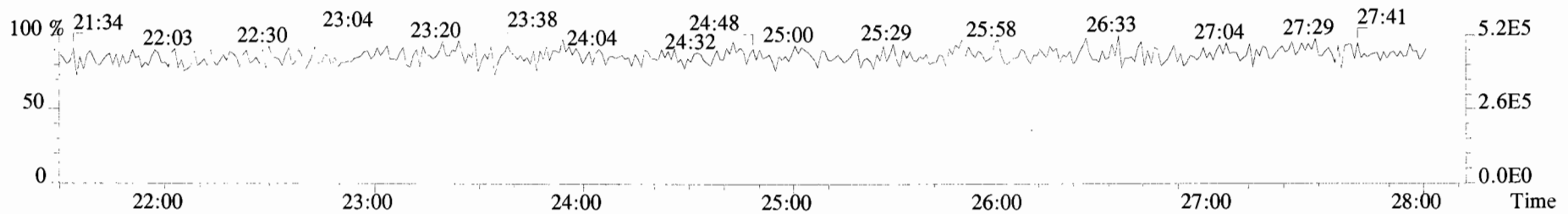
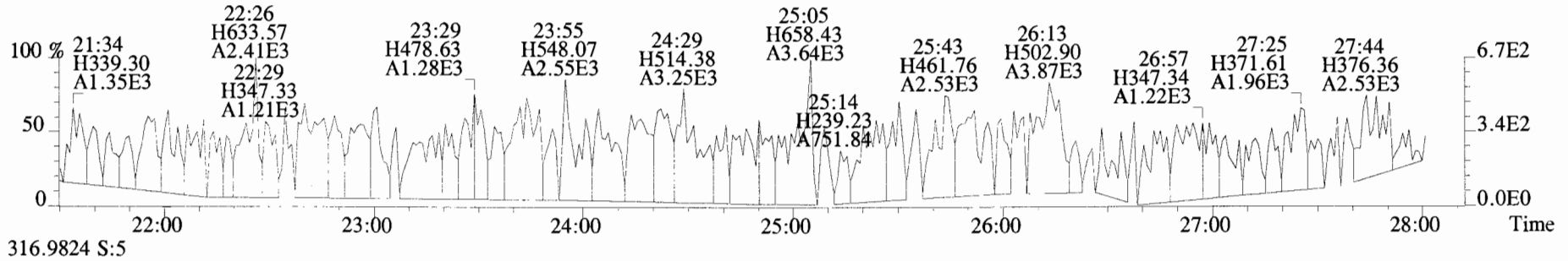
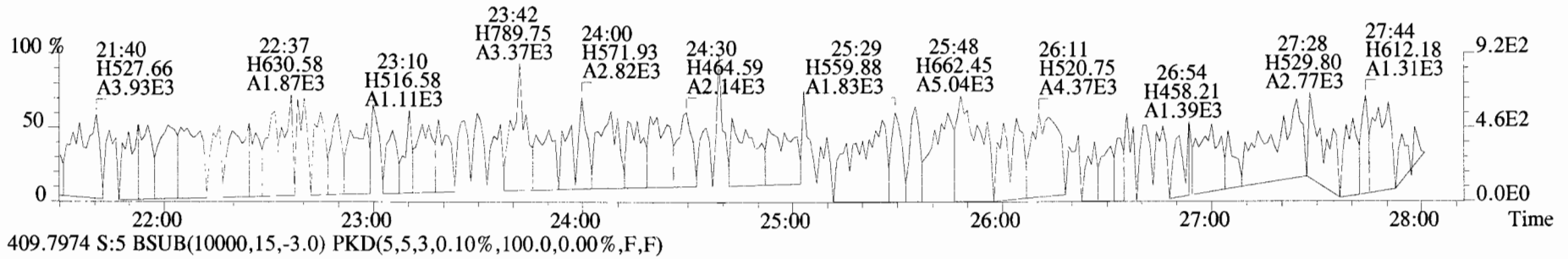
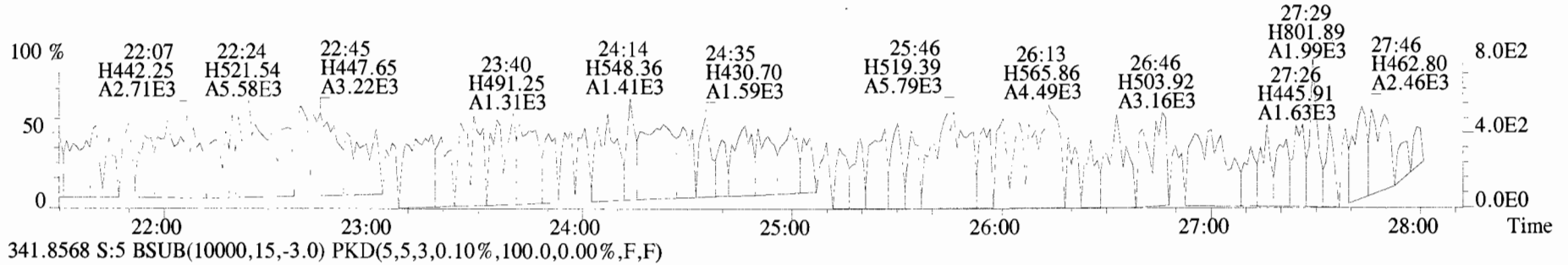
317.9389 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



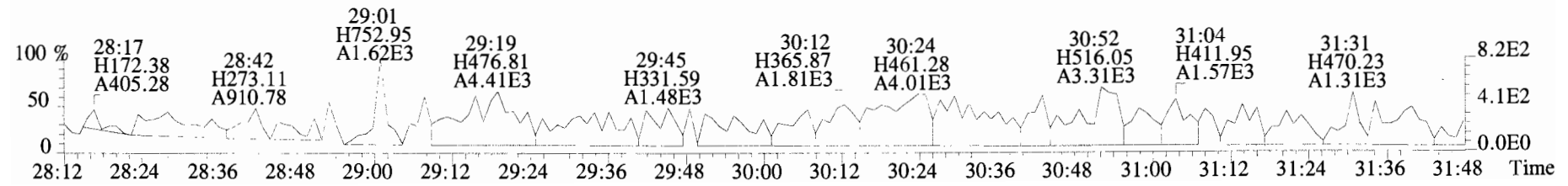
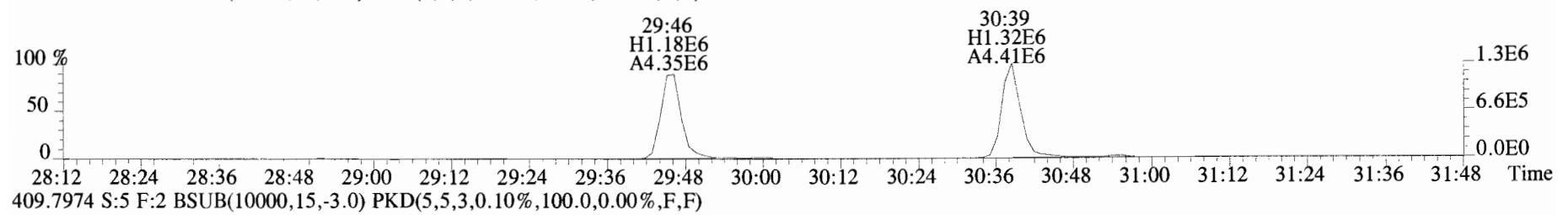
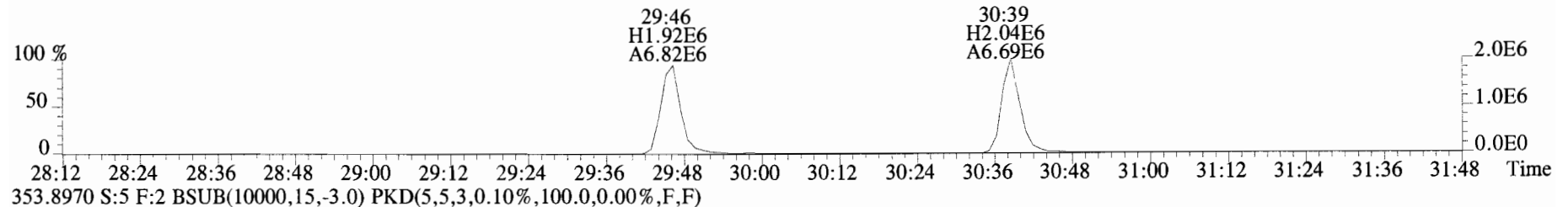
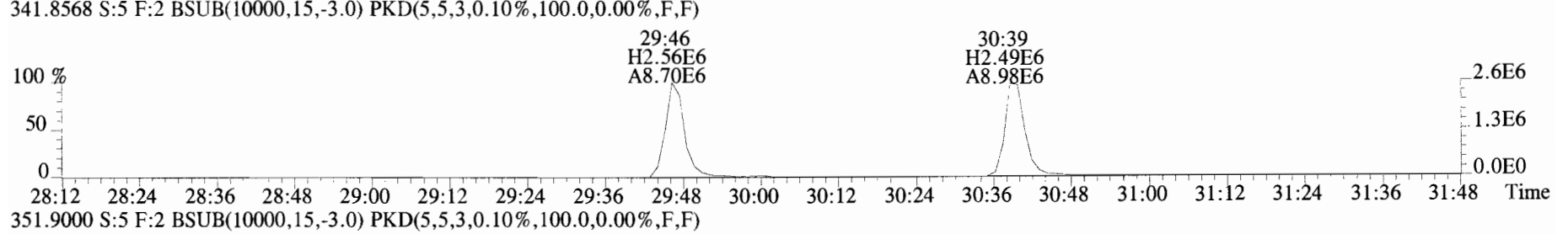
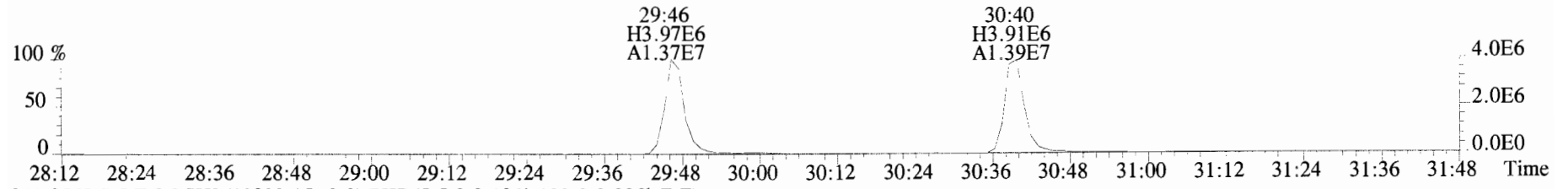
375.8364 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



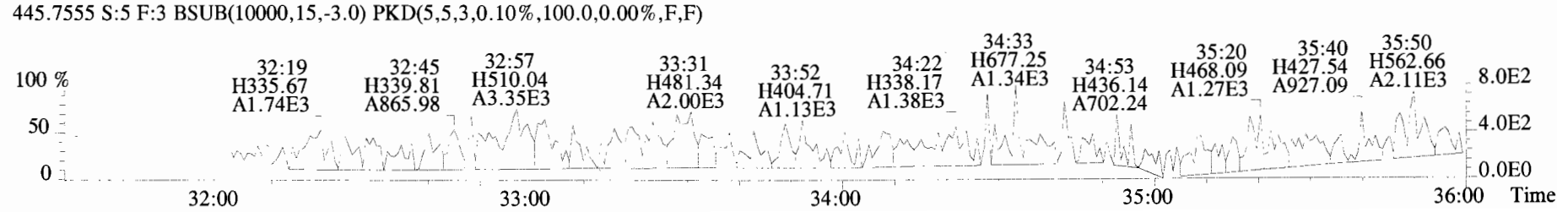
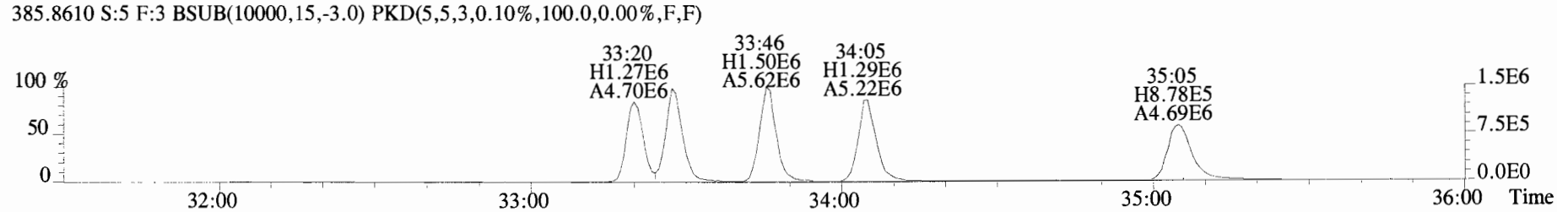
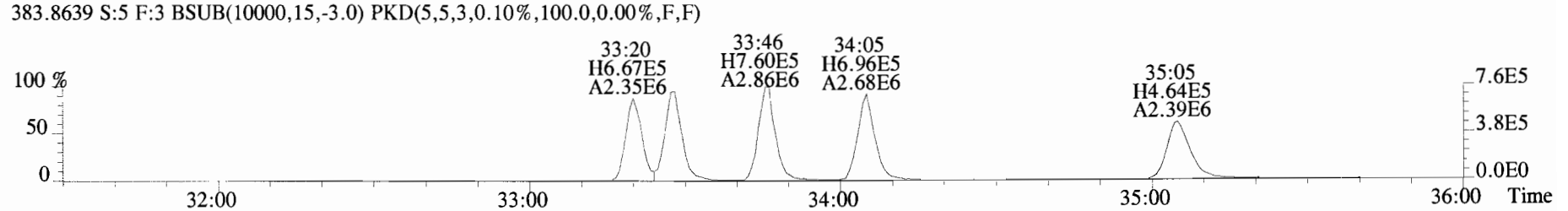
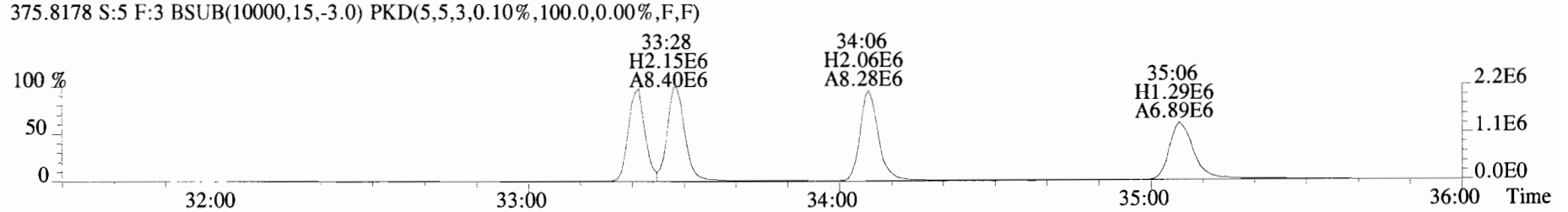
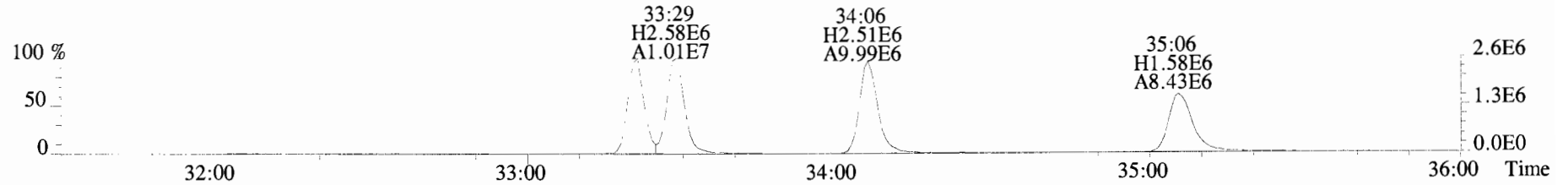
File:191009D1 #1-514 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD_DB5
 339.8597 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



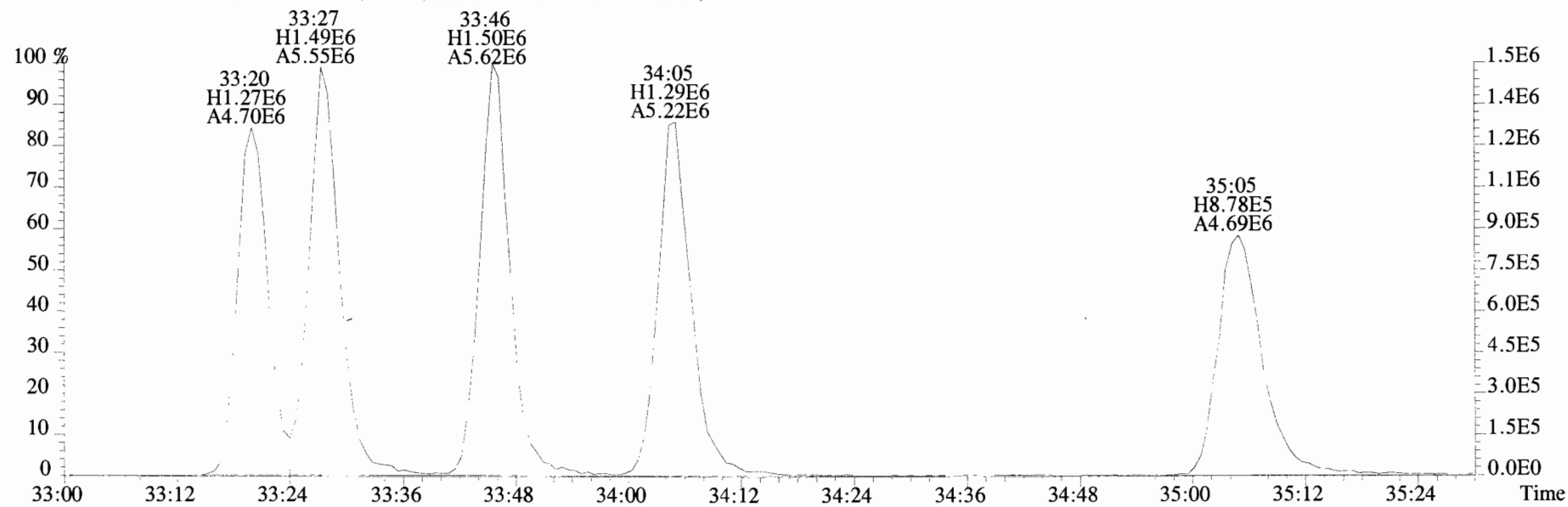
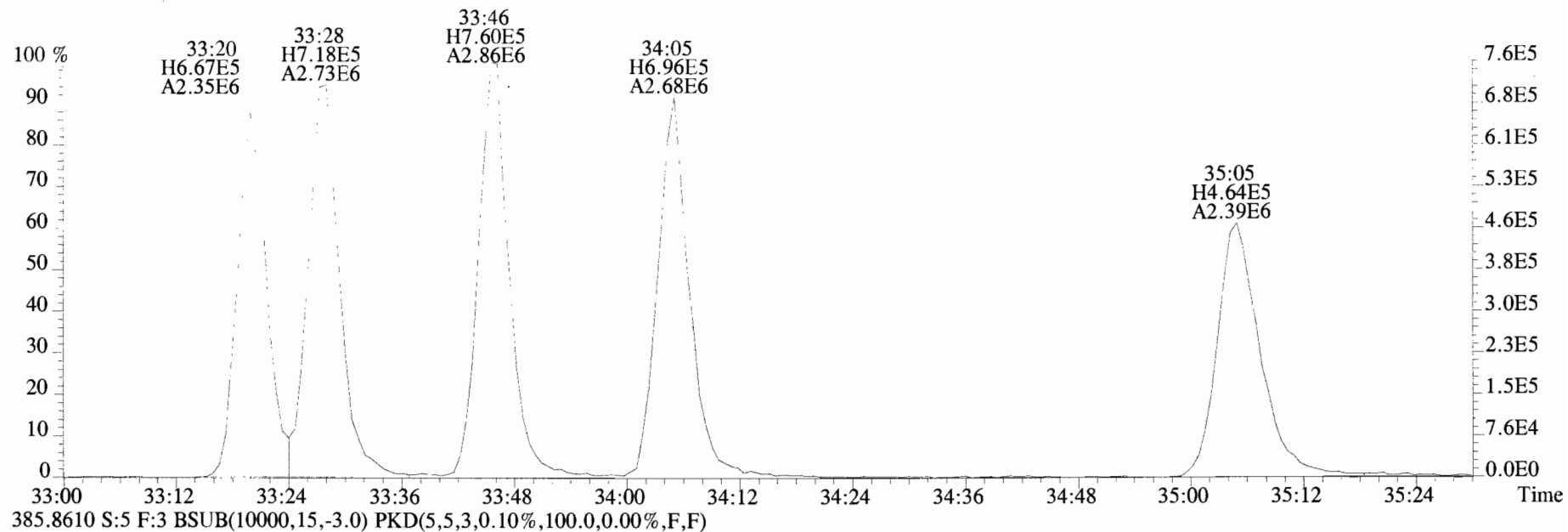
File:191009D1 #1-210 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD_DB5
339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



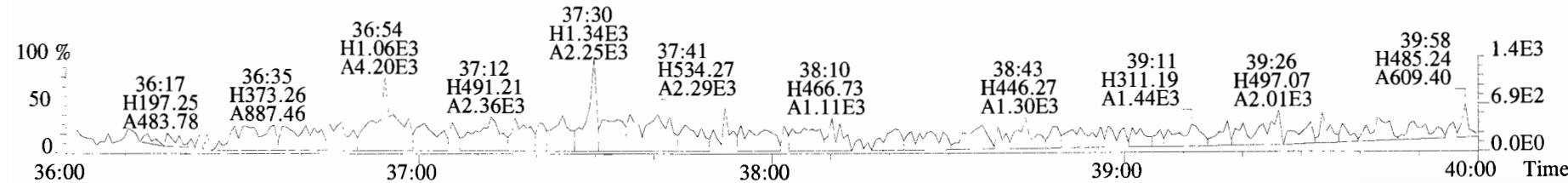
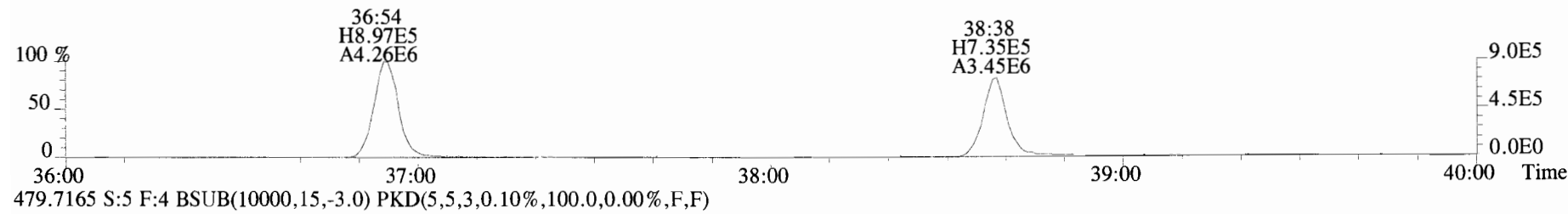
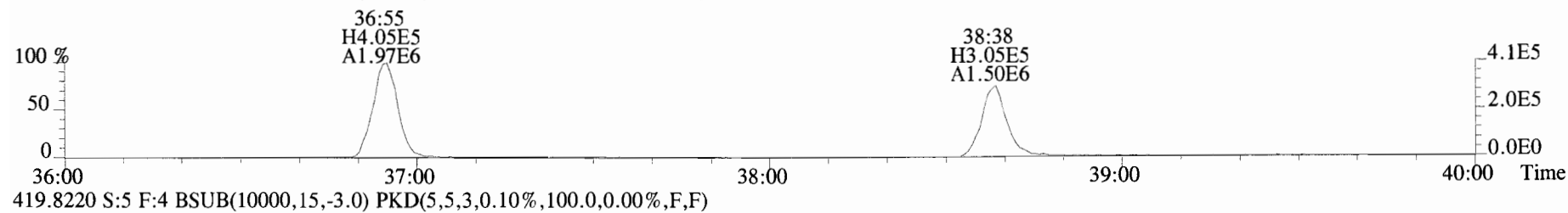
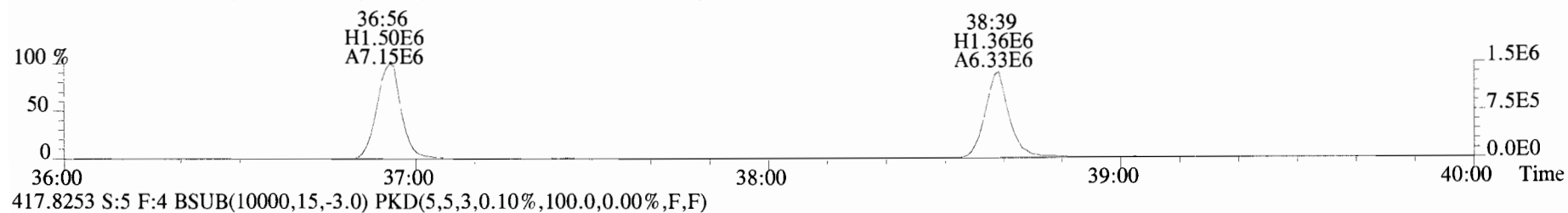
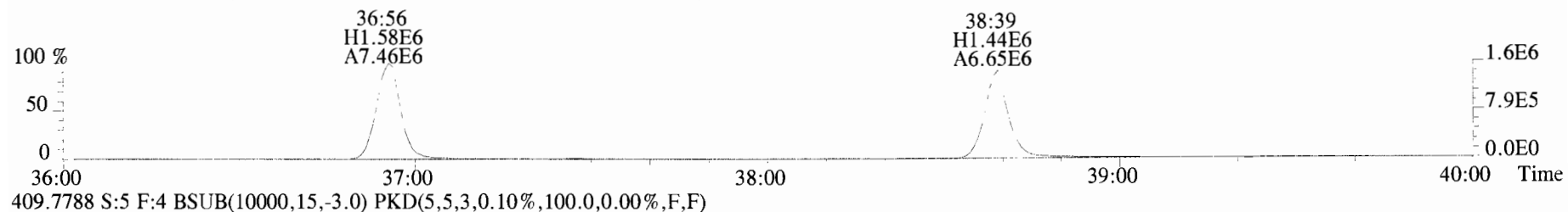
File:191009D1 #1-355 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD_DB5
 373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



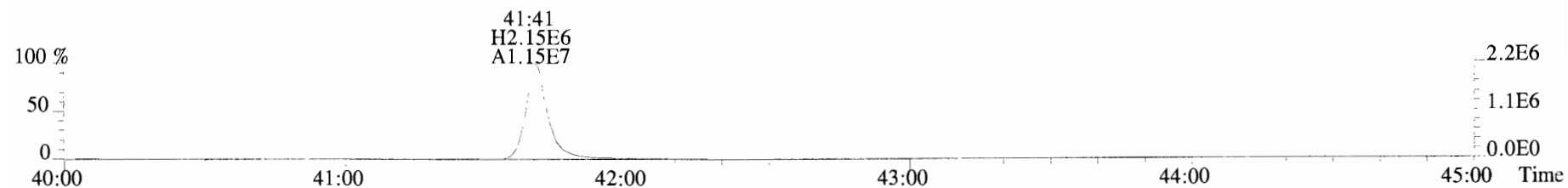
File: 191009D1 #1-355 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text: Vista Analytical Laboratory VG7 Text: ST191009D1-5 1613 CS4 19C2205 Exp: OCDD_DB5
383.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



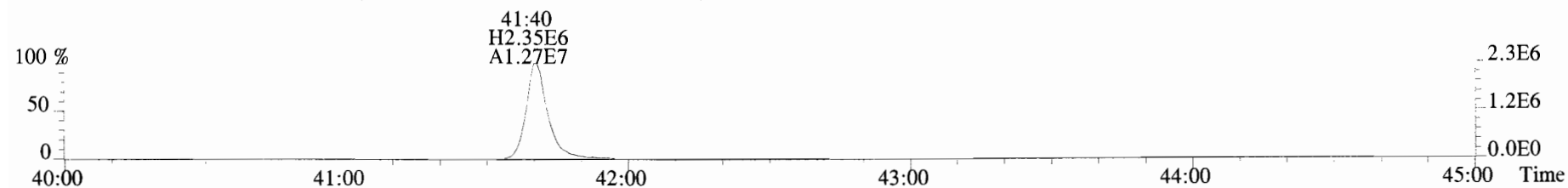
File:191009D1 #1-356 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD_DB5
407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



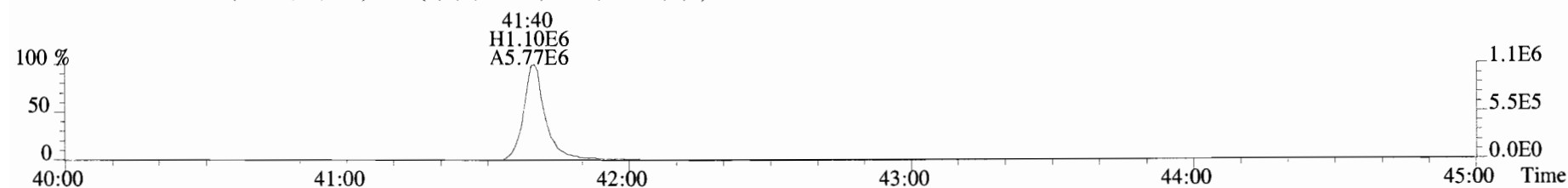
File:191009D1 #1-431 Acq: 9-OCT-2019 19:23:46 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-5 1613 CS4 19C2205 Exp:OCDD_DB5
441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



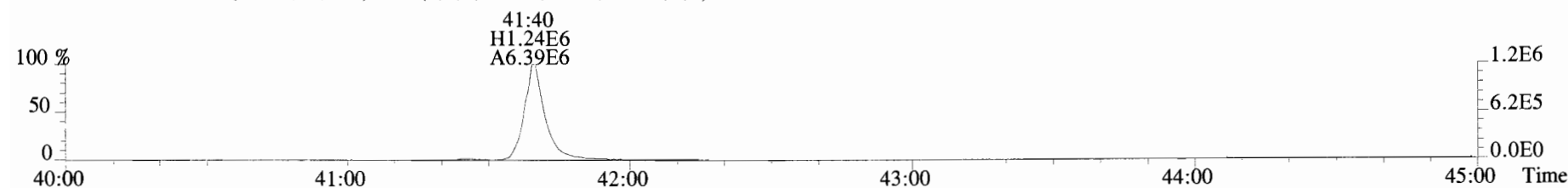
443.7398 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



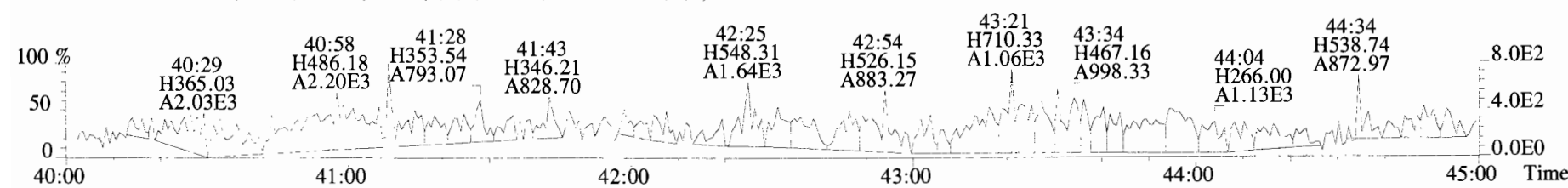
453.7831 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



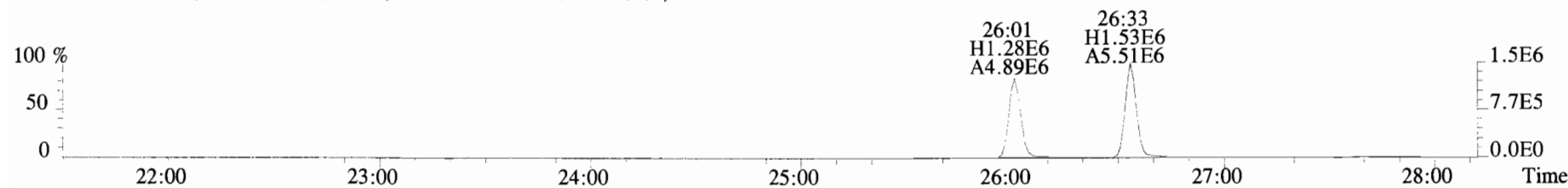
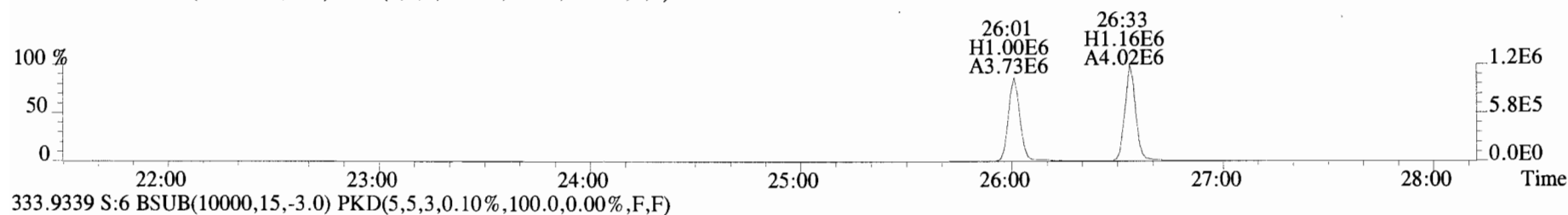
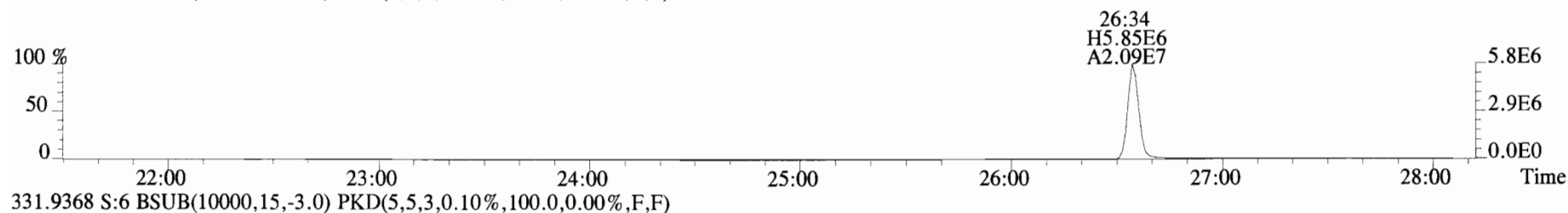
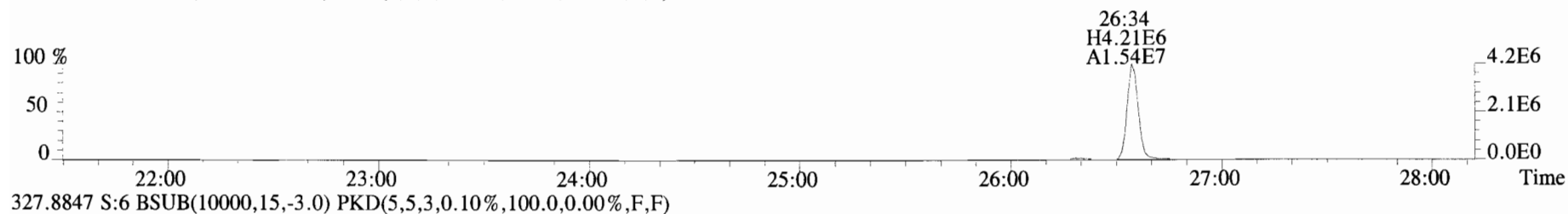
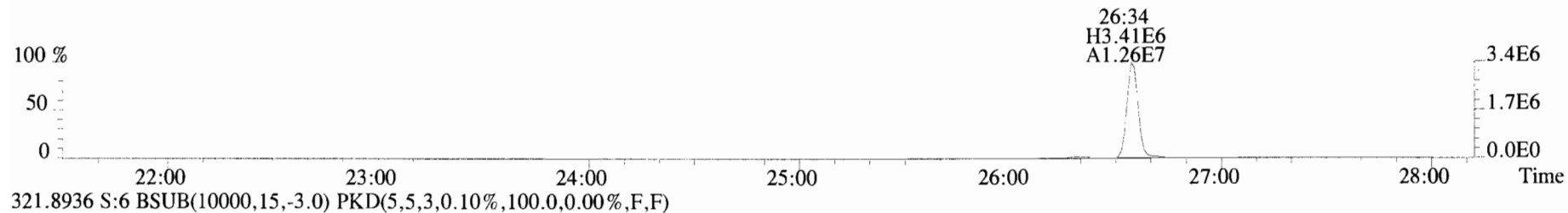
455.7801 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



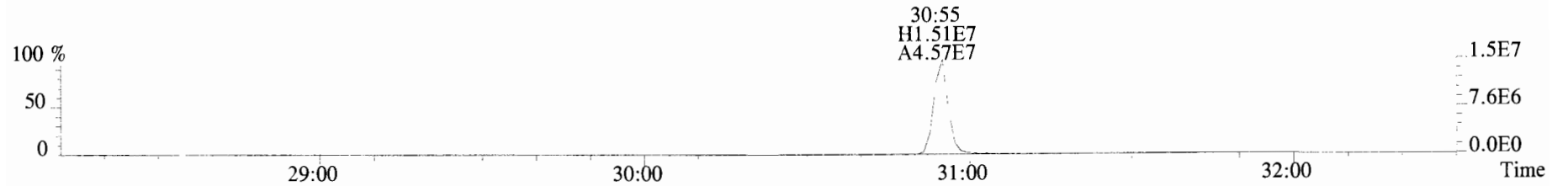
513.6775 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



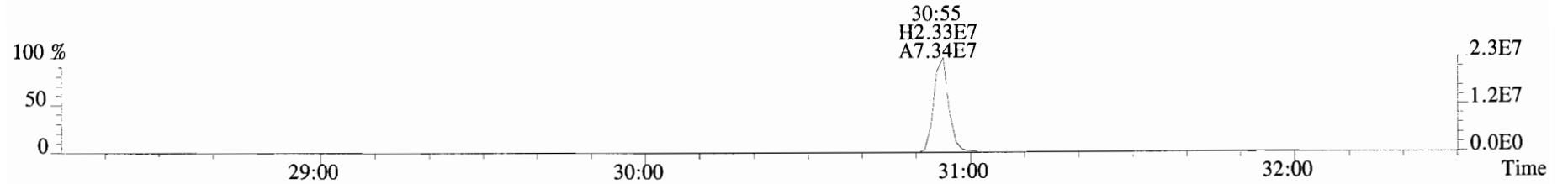
File:191009D1 #1-513 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD_DB5
319.8965 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



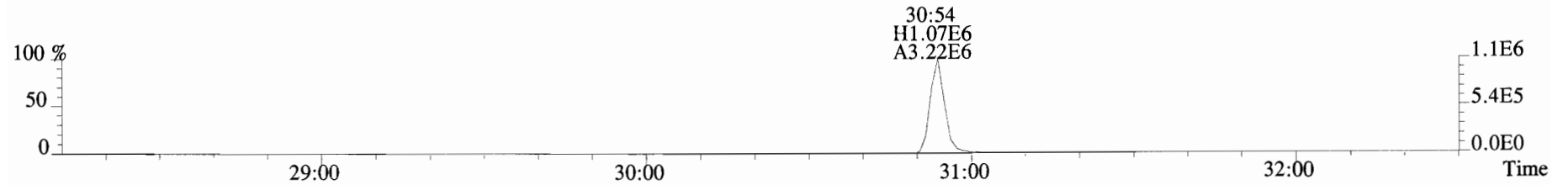
File:191009D1 #1-211 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD_DB5
353.8576 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



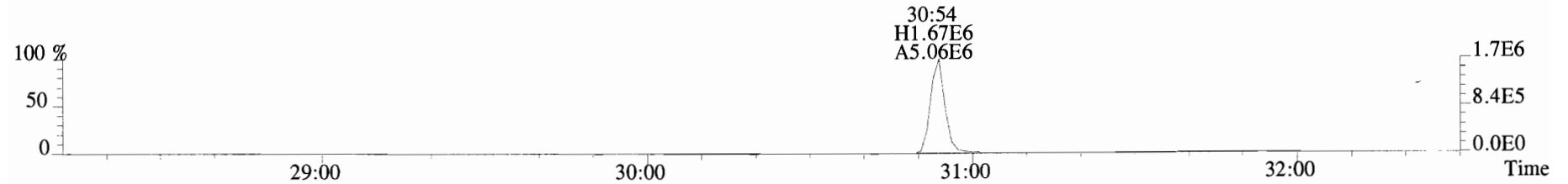
355.8546 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



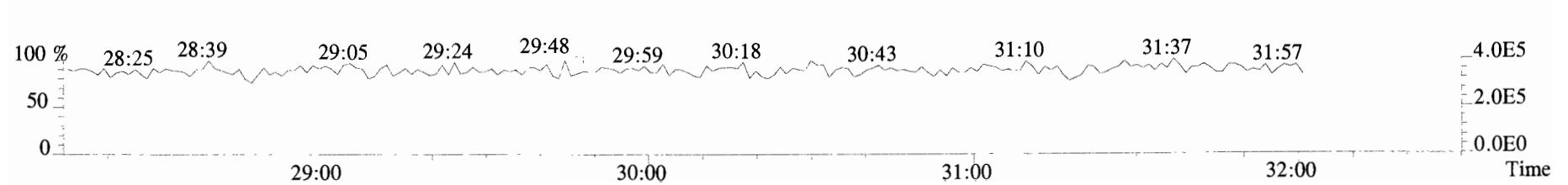
365.8978 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



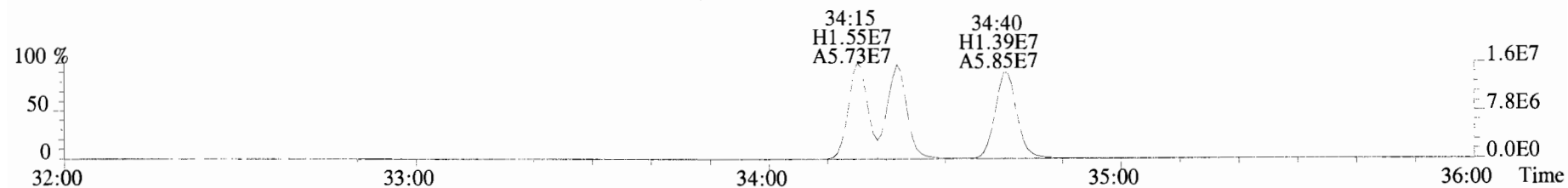
367.8949 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



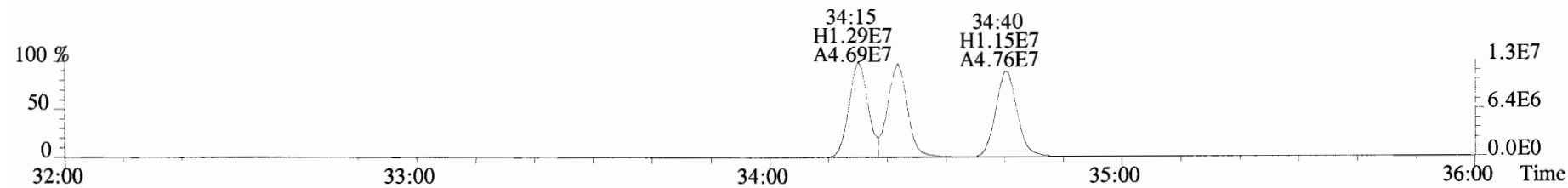
366.9792 S:6 F:2



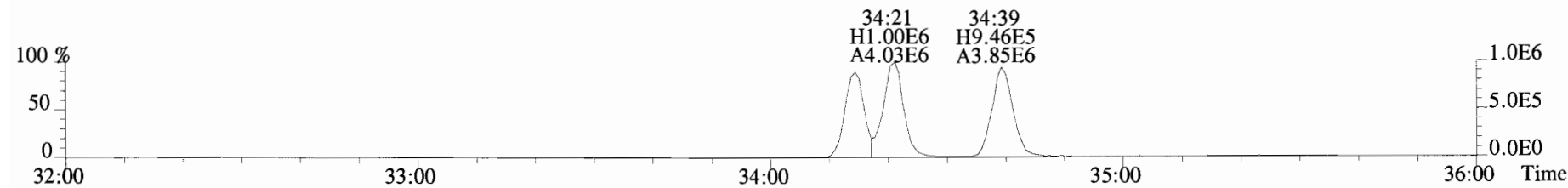
File:191009D1 #1-354 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD_DB5
389.8156 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



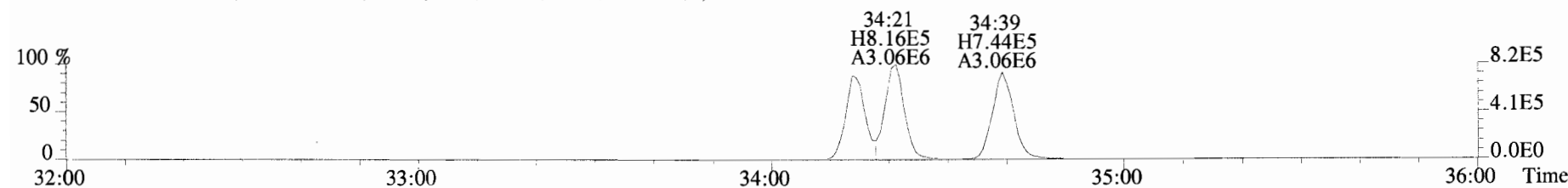
391.8127 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



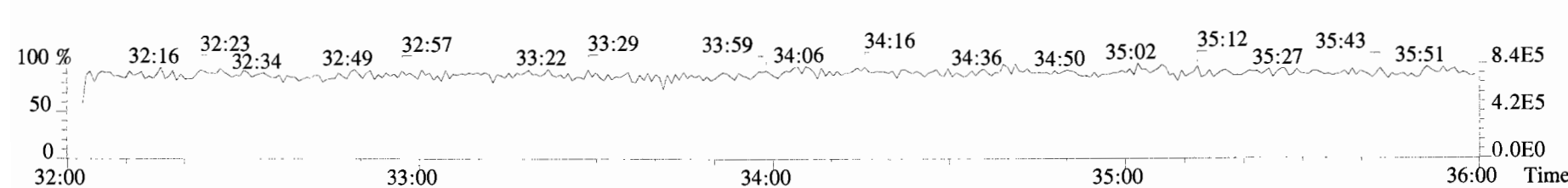
401.8559 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



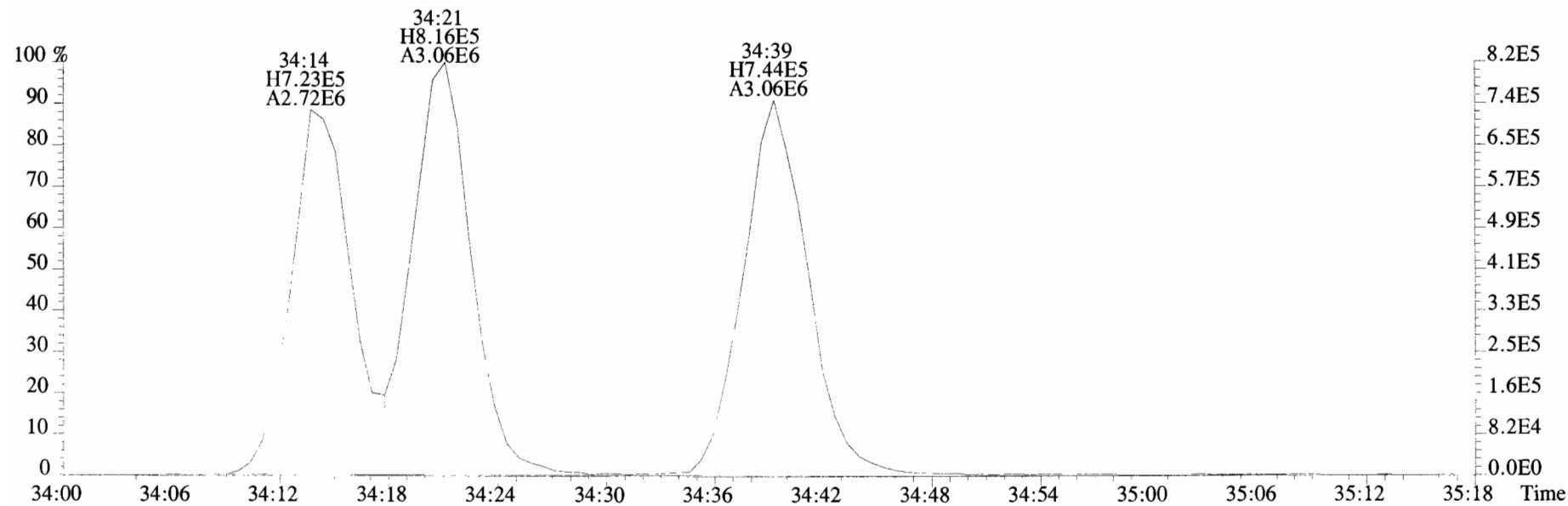
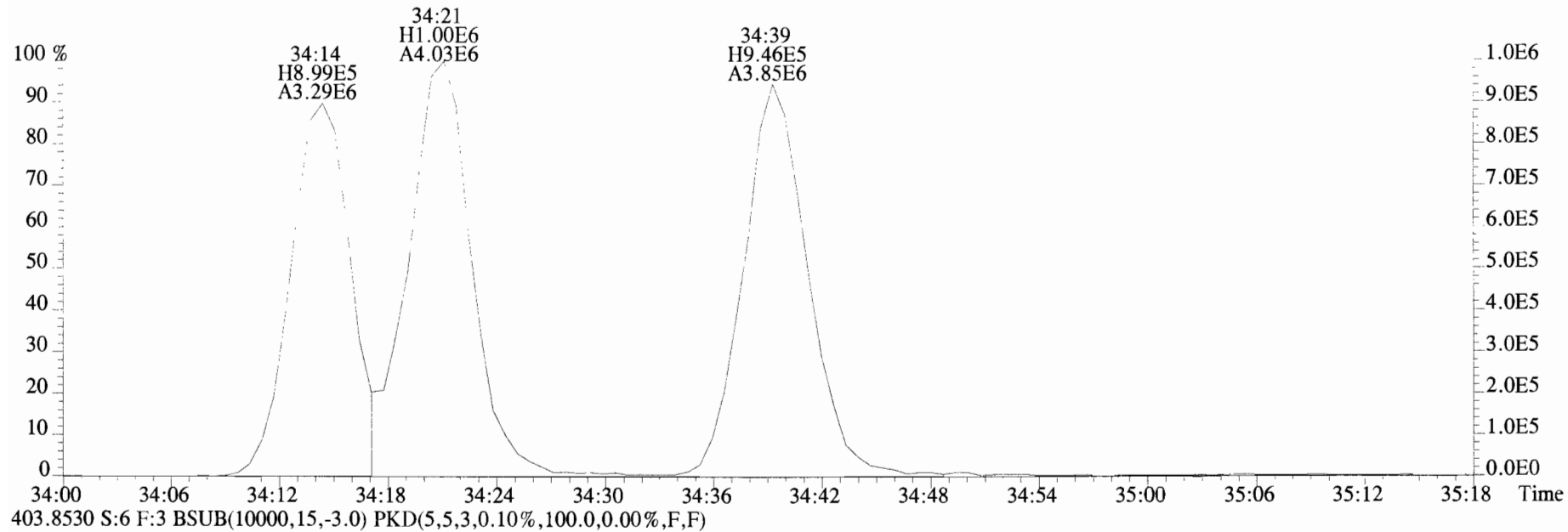
403.8530 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



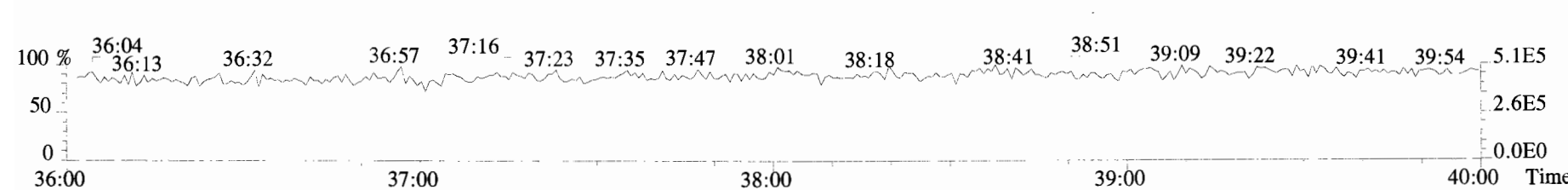
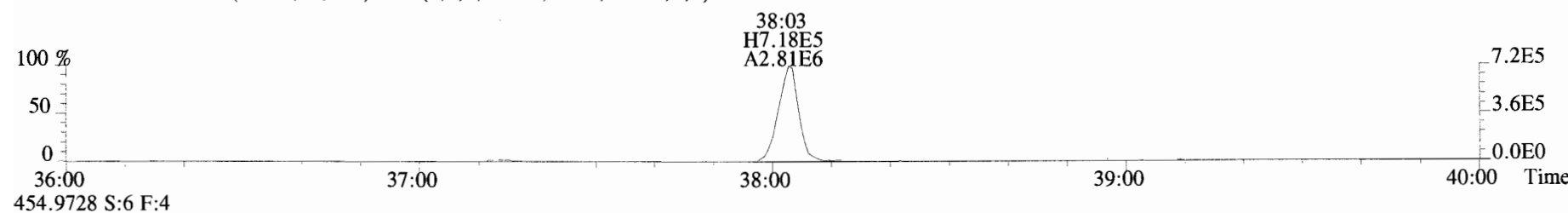
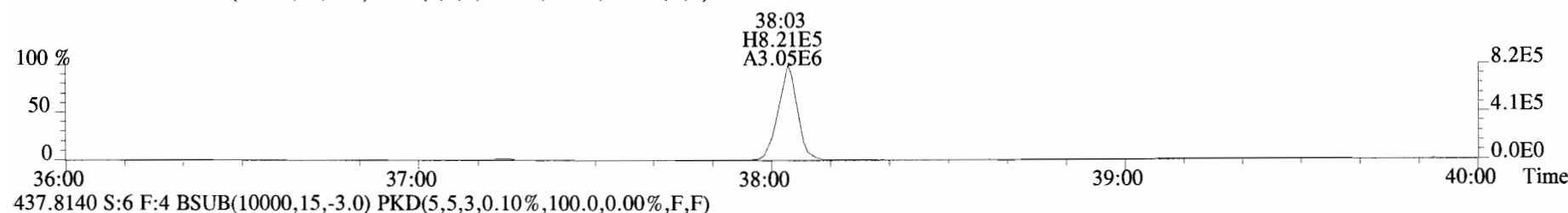
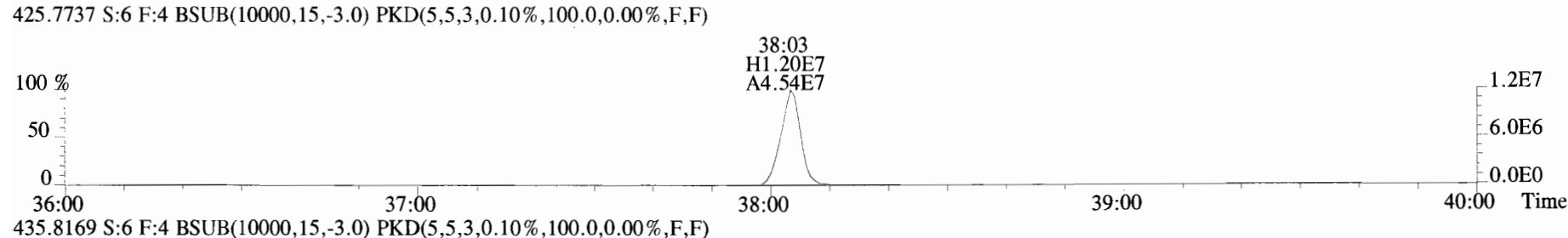
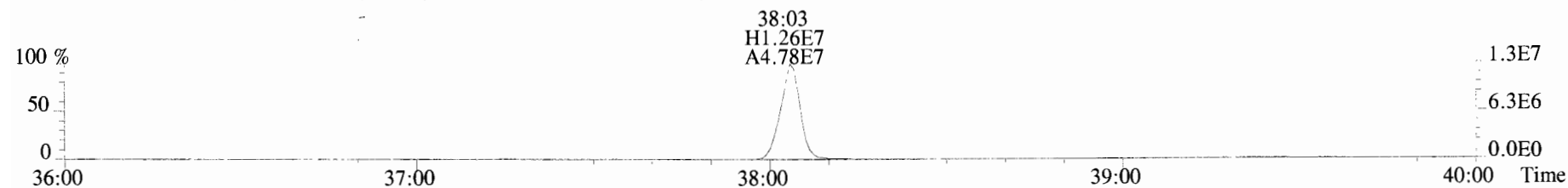
392.9760 S:6 F:3



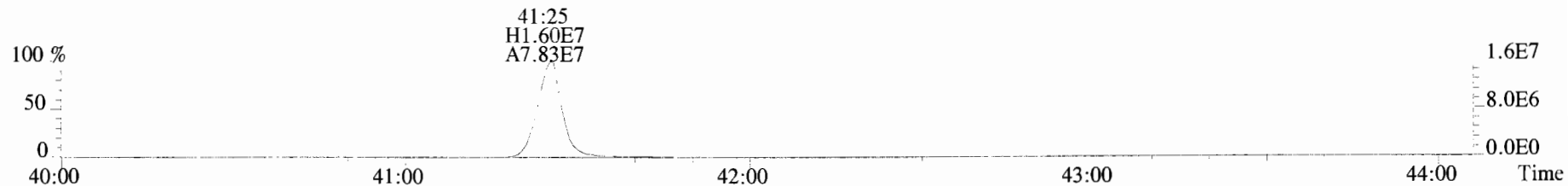
File:191009D1 #1-354 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD_DB5
401.8559 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



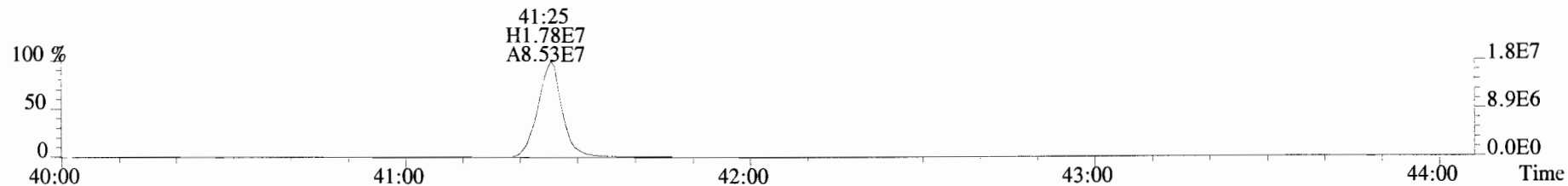
File:191009D1 #1-356 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD_DB5
423.7767 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



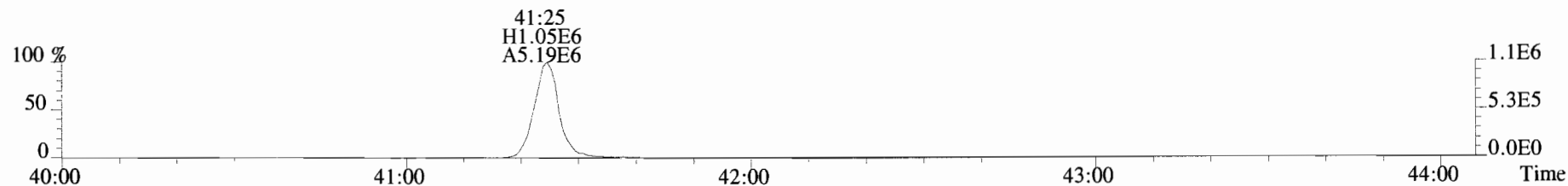
File:191009D1 #1-431 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD_DB5
457.7377 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



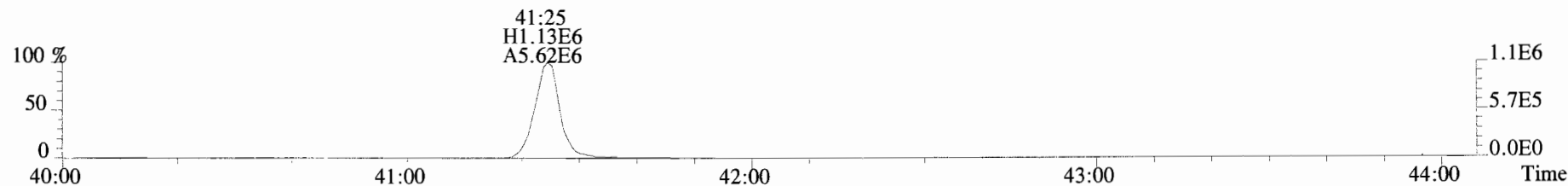
459.7348 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



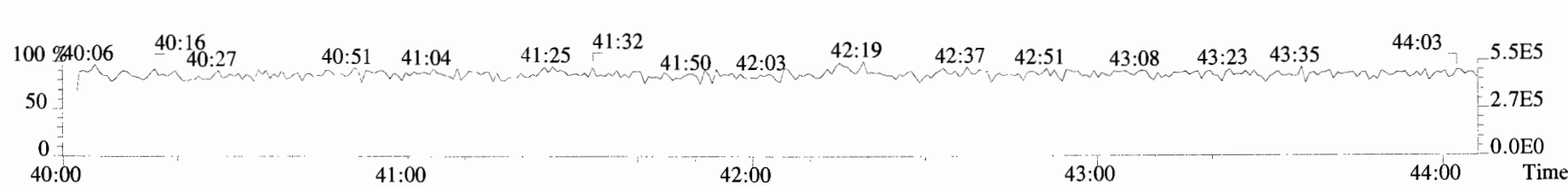
469.7780 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



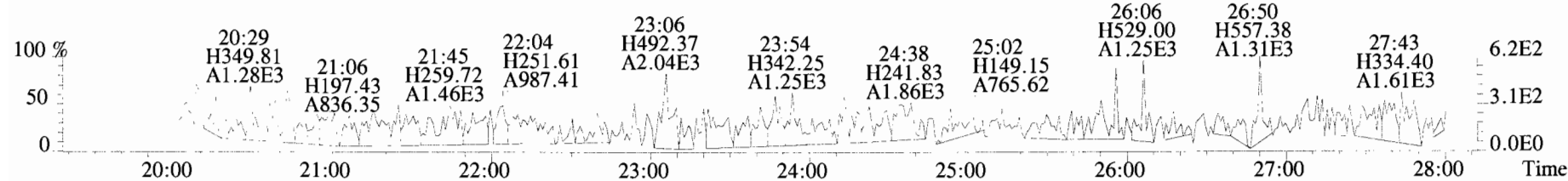
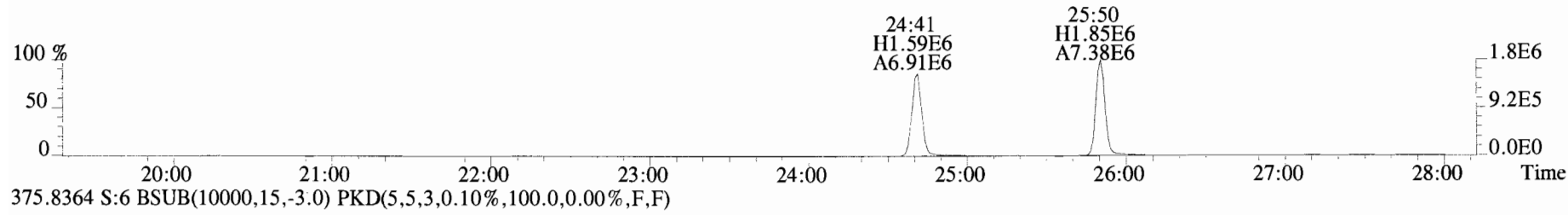
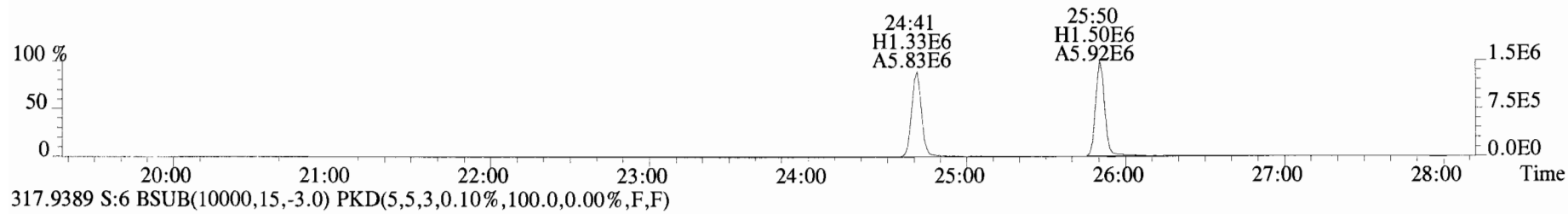
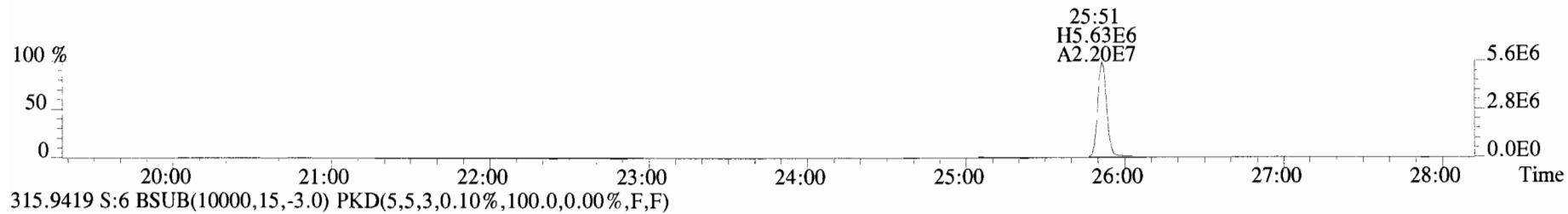
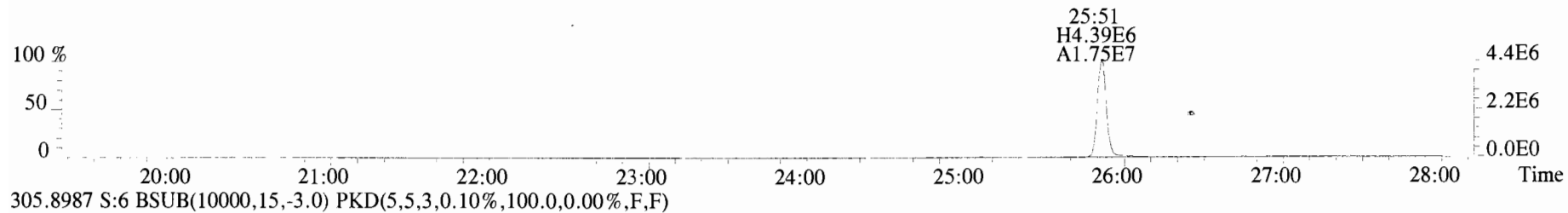
471.7750 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



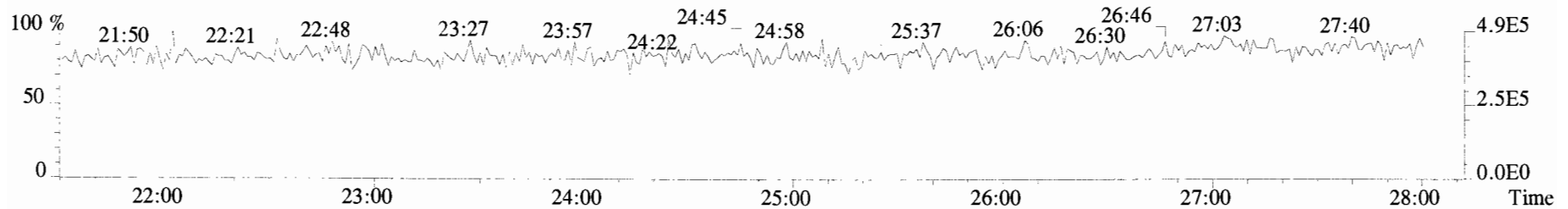
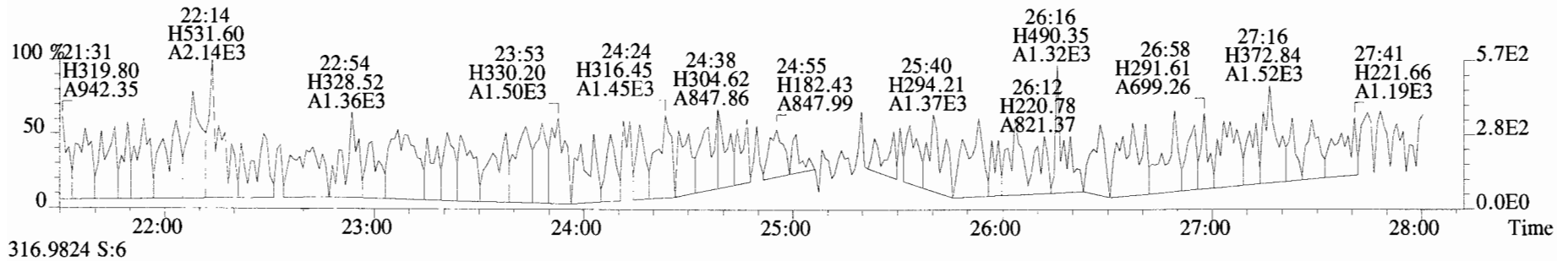
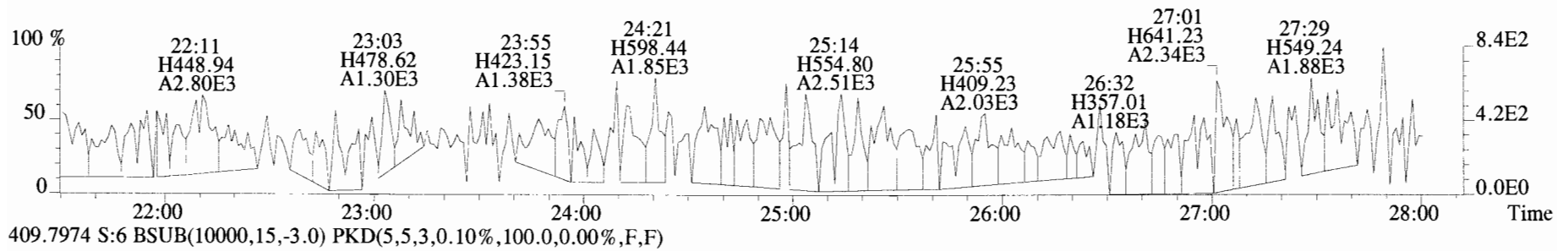
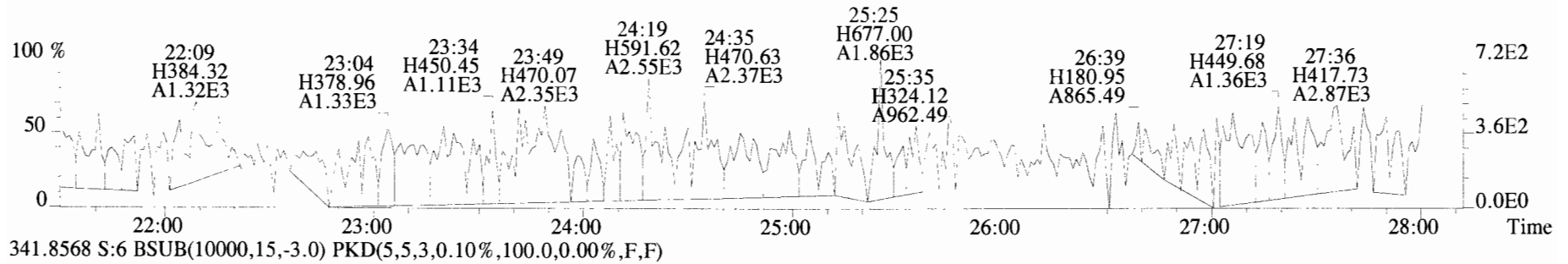
454.9728 S:6 F:5



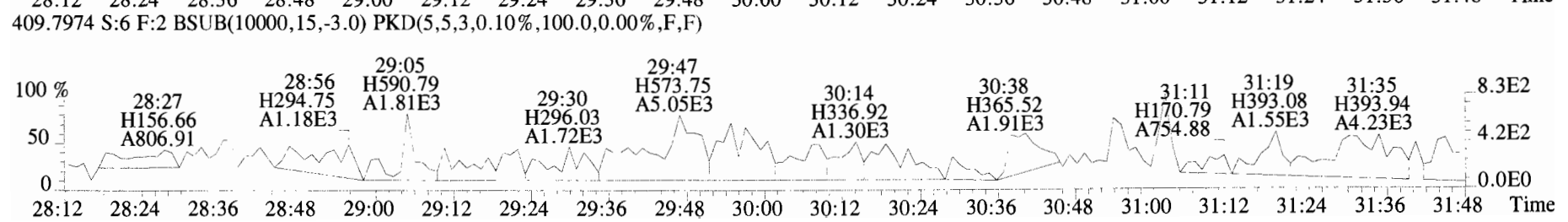
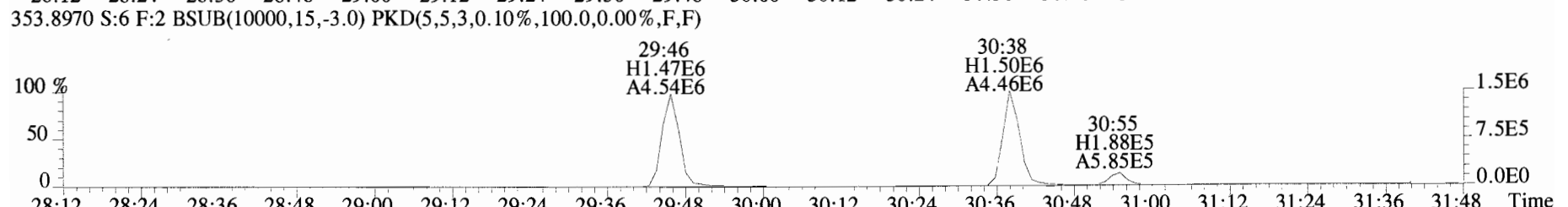
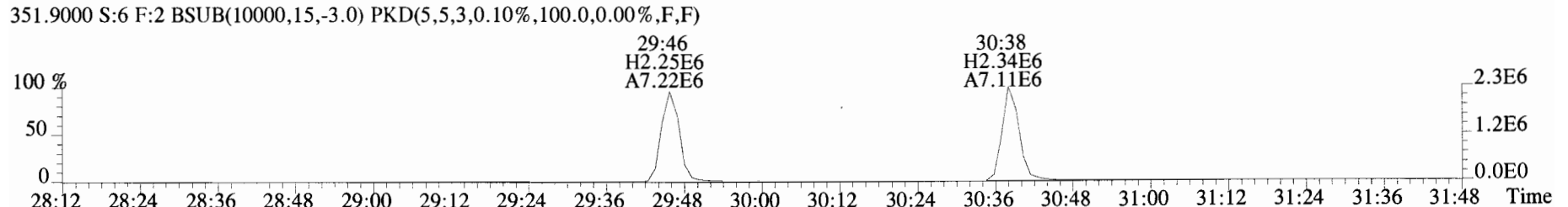
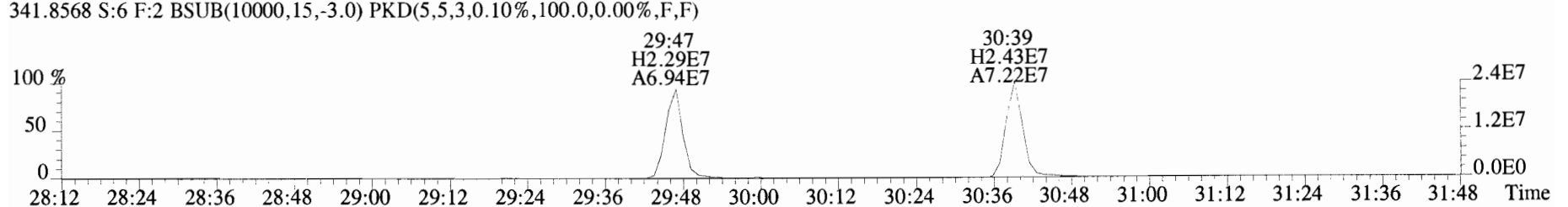
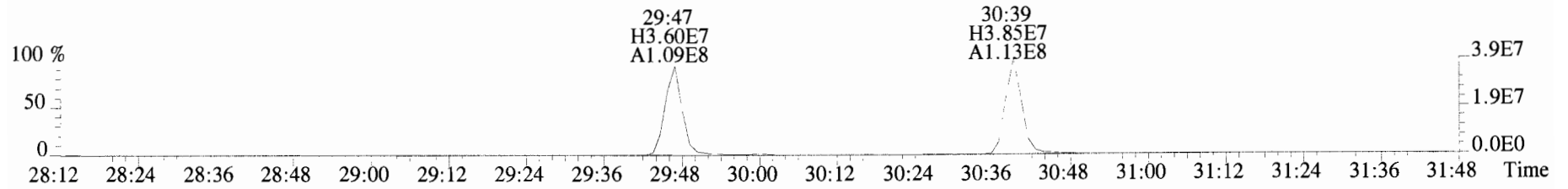
File:191009D1 #1-513 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista_Analytical_Laboratory_VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD_DB5
303.9016 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



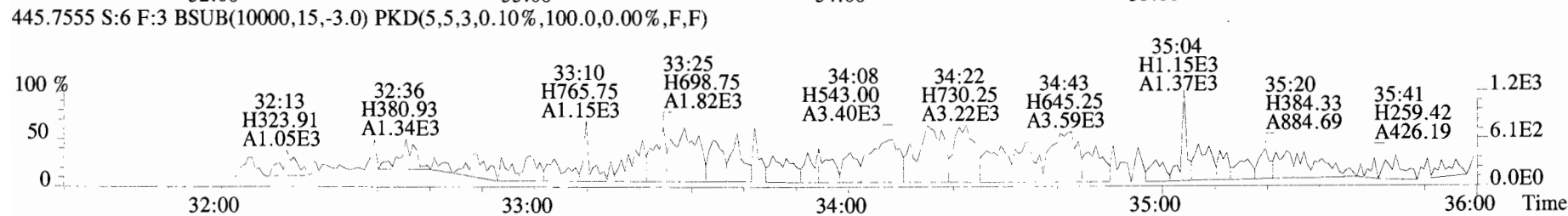
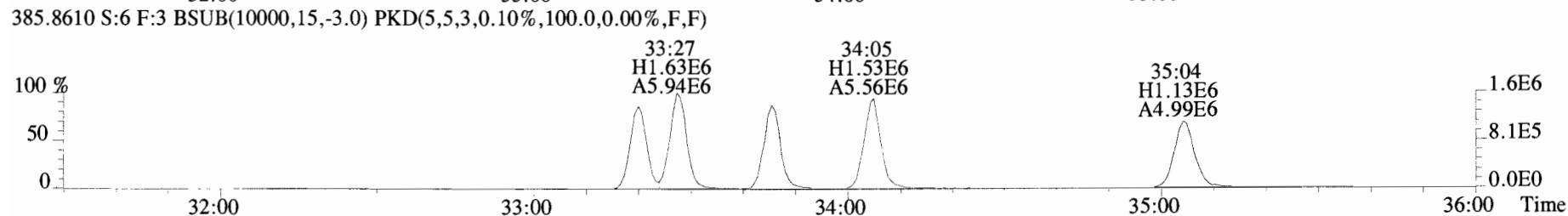
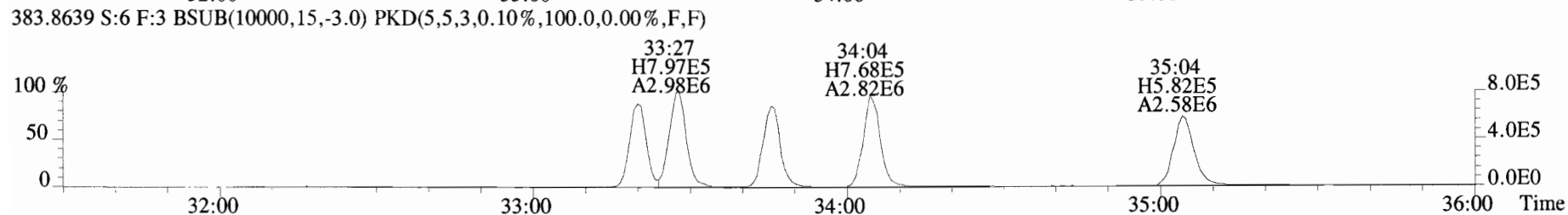
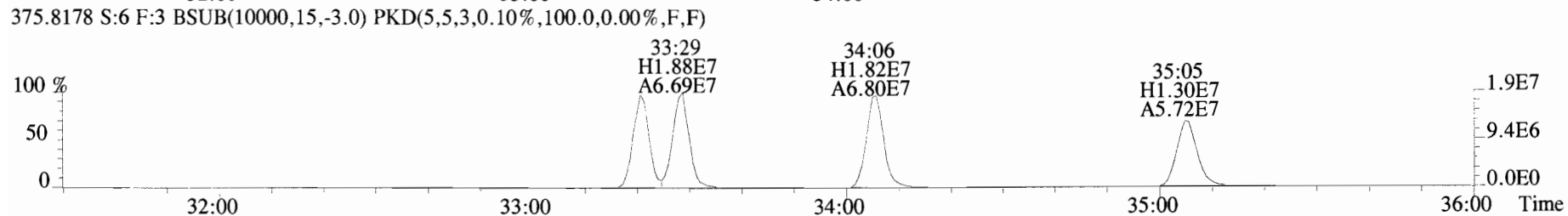
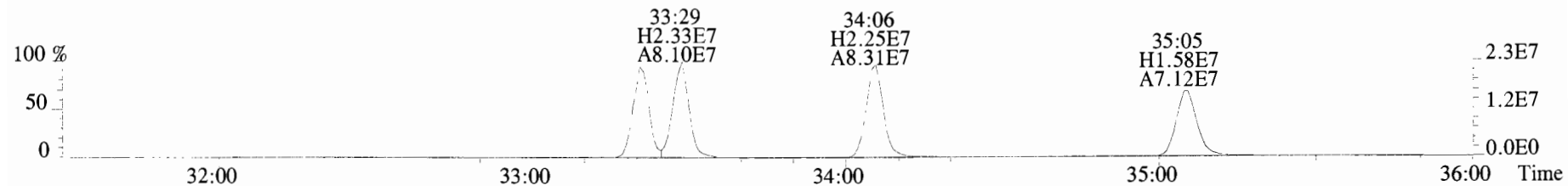
File:191009D1 #1-513 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD_DB5
339.8597 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



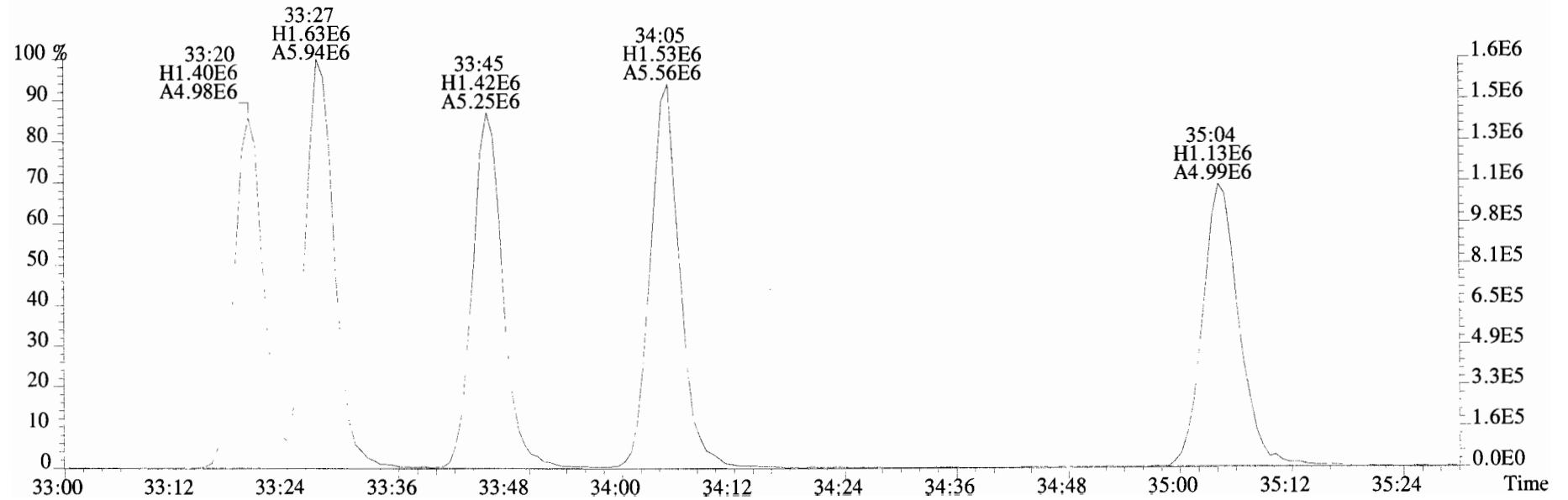
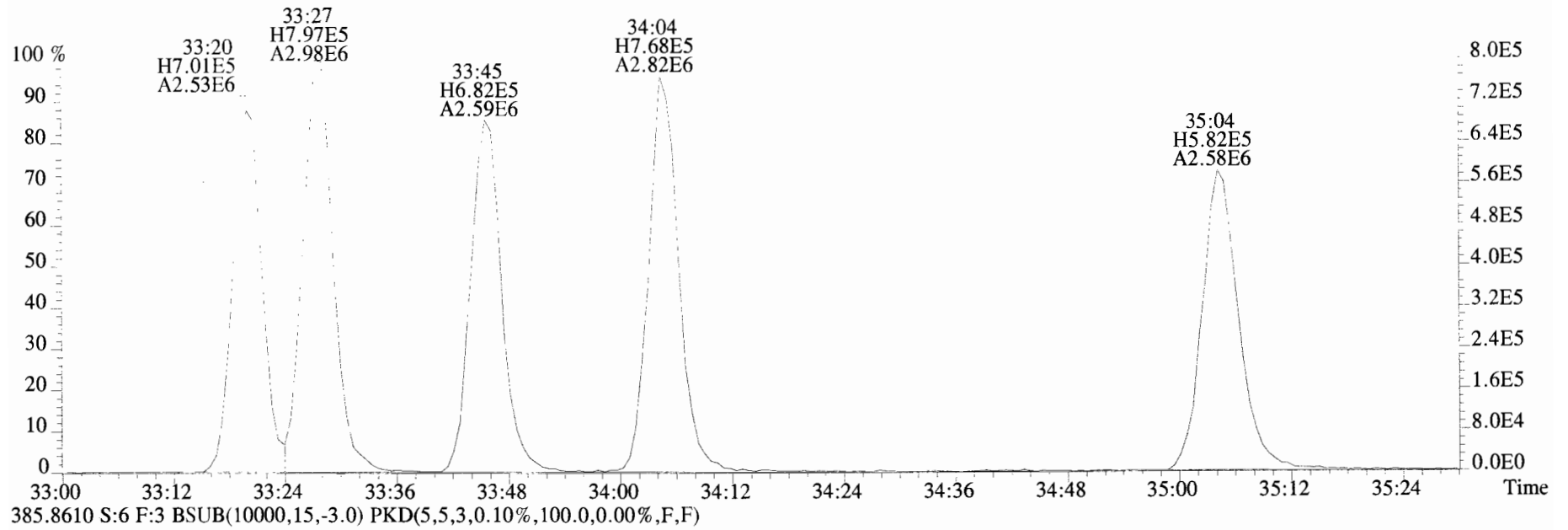
File:191009D1 #1-211 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD_DB5
339.8597 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



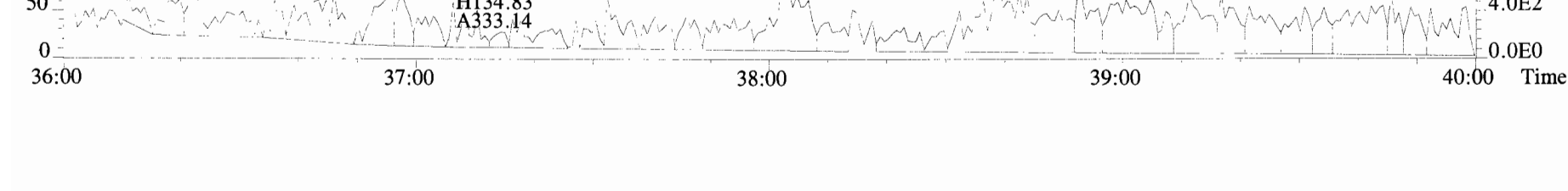
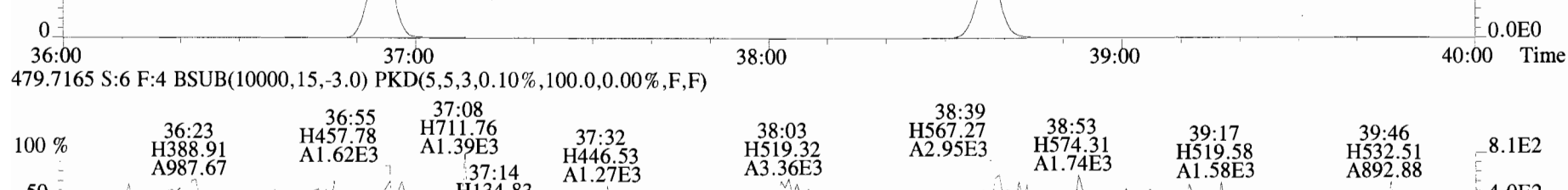
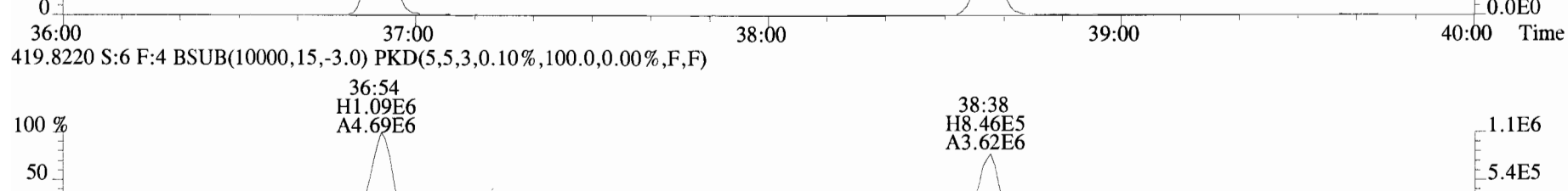
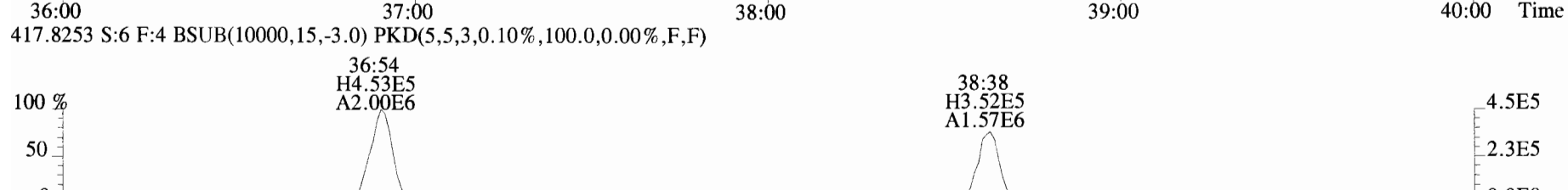
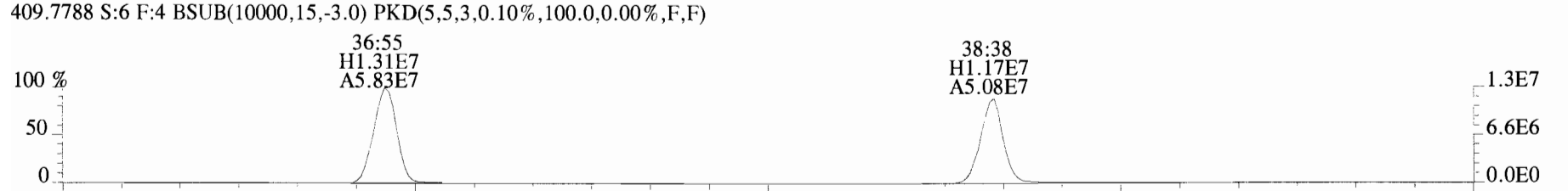
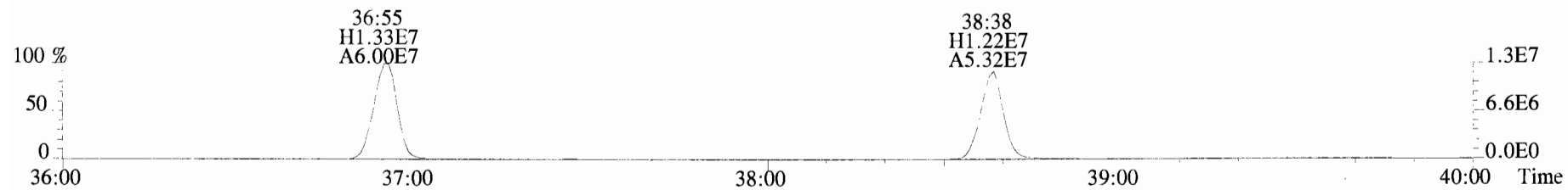
File:191009D1 #1-354 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD_DB5
 373.8207 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



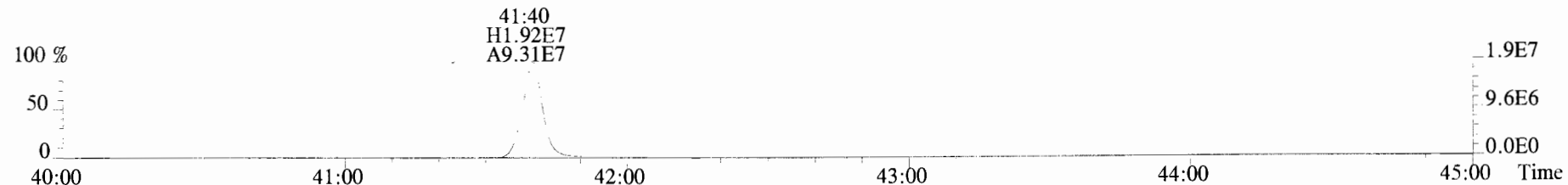
File:191009D1 #1-354 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD_DB5
383.8639 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



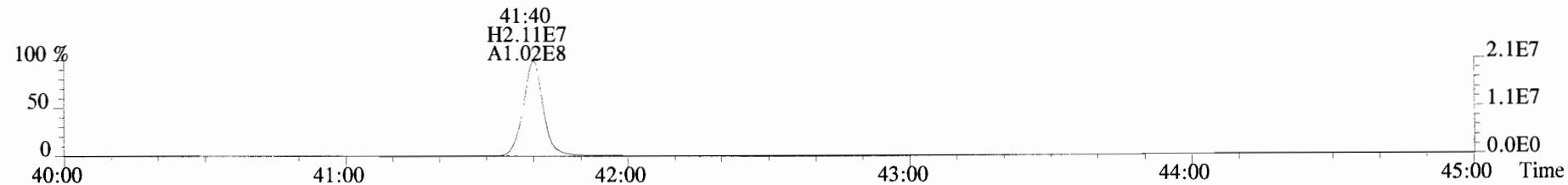
File:191009D1 #1-356 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text:Vista Analytical Laboratory VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD_DB5
 407.7818 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



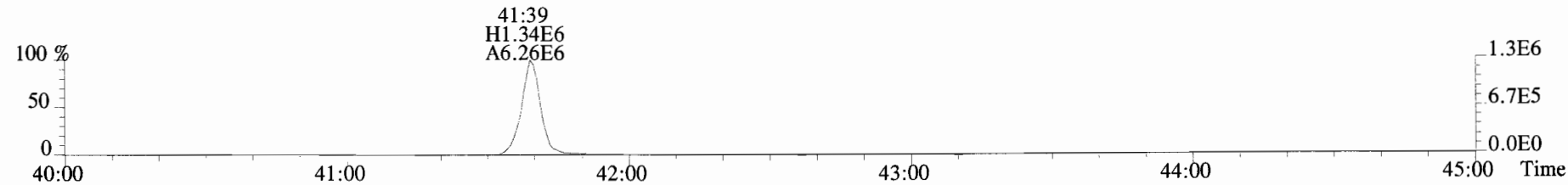
File:191009D1 #1-431 Acq: 9-OCT-2019 20:11:17 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 File Text:Vista Analytical Laboratory_VG7 Text:ST191009D1-6 1613 CS5 19C2206 Exp:OCDD_DB5
 441.7428 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



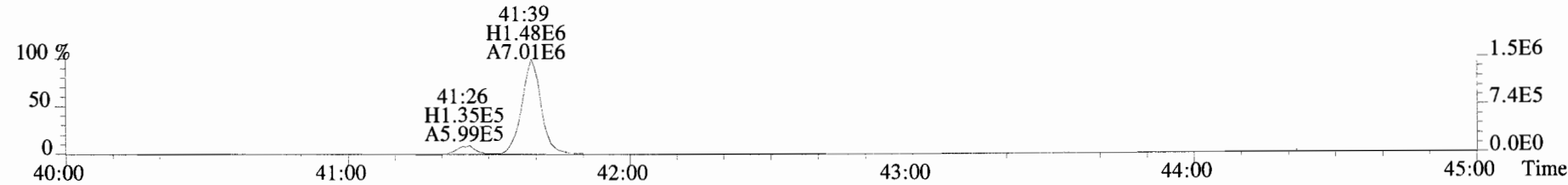
443.7398 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



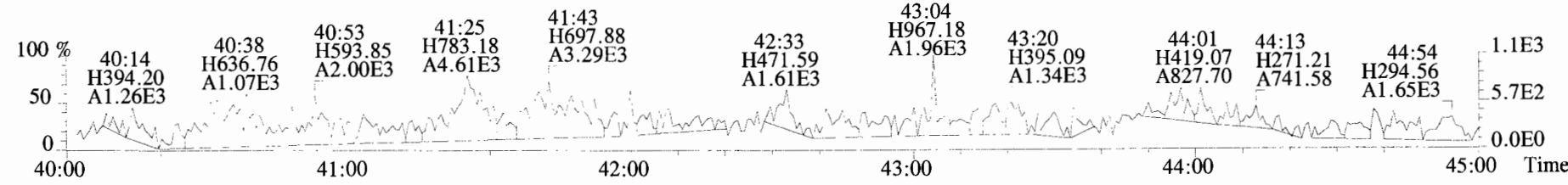
453.7831 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



455.7801 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)

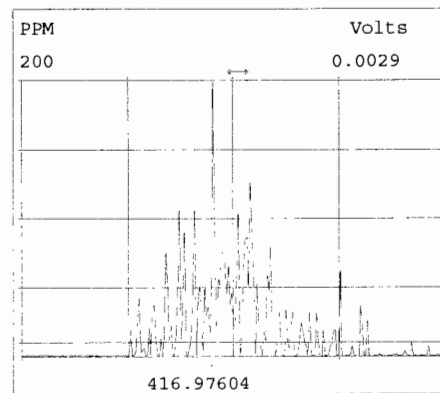
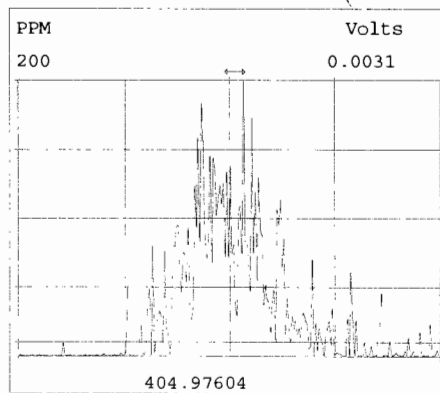
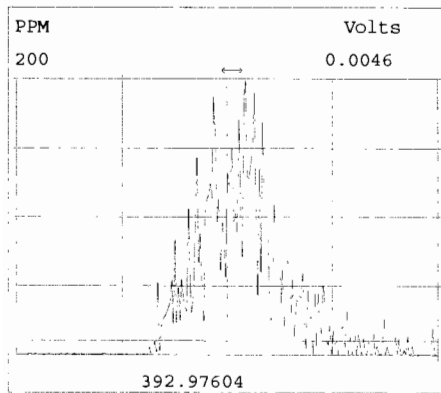
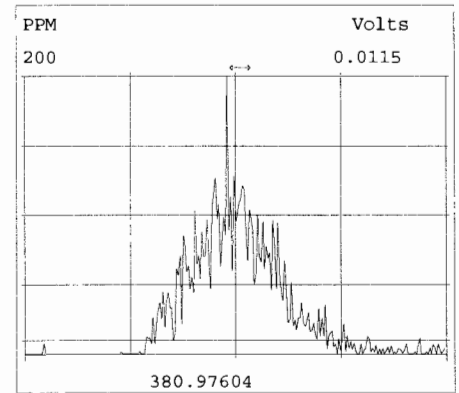
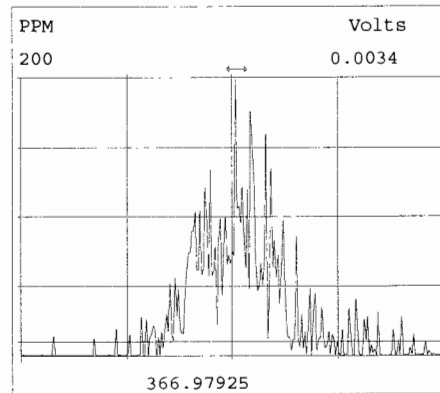
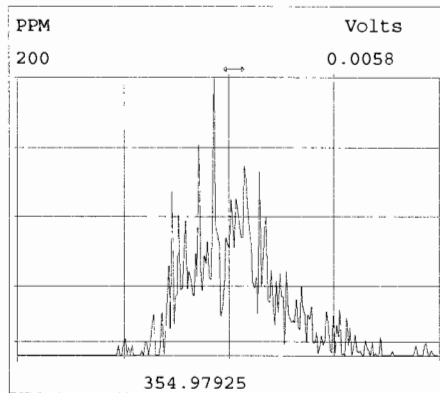
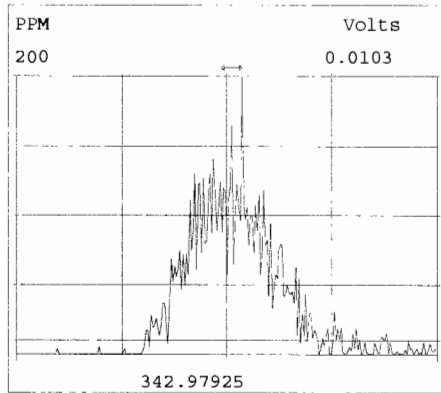
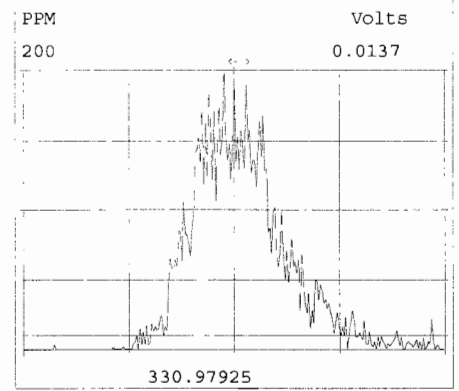
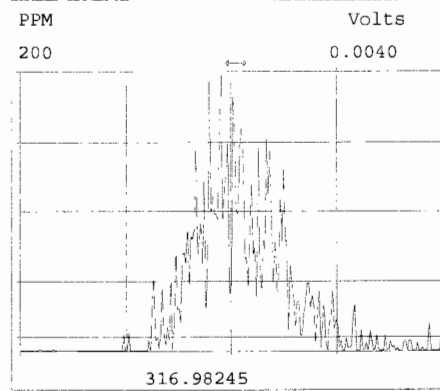
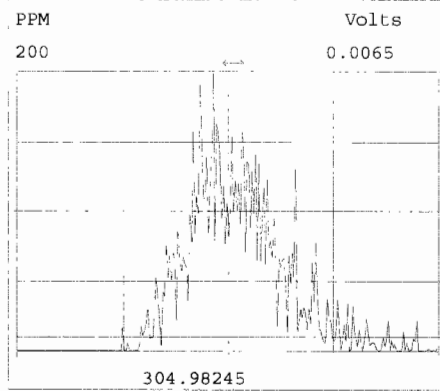
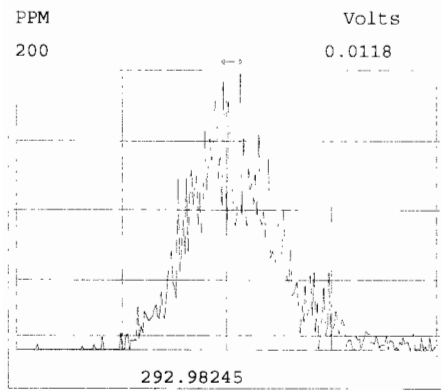


513.6775 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



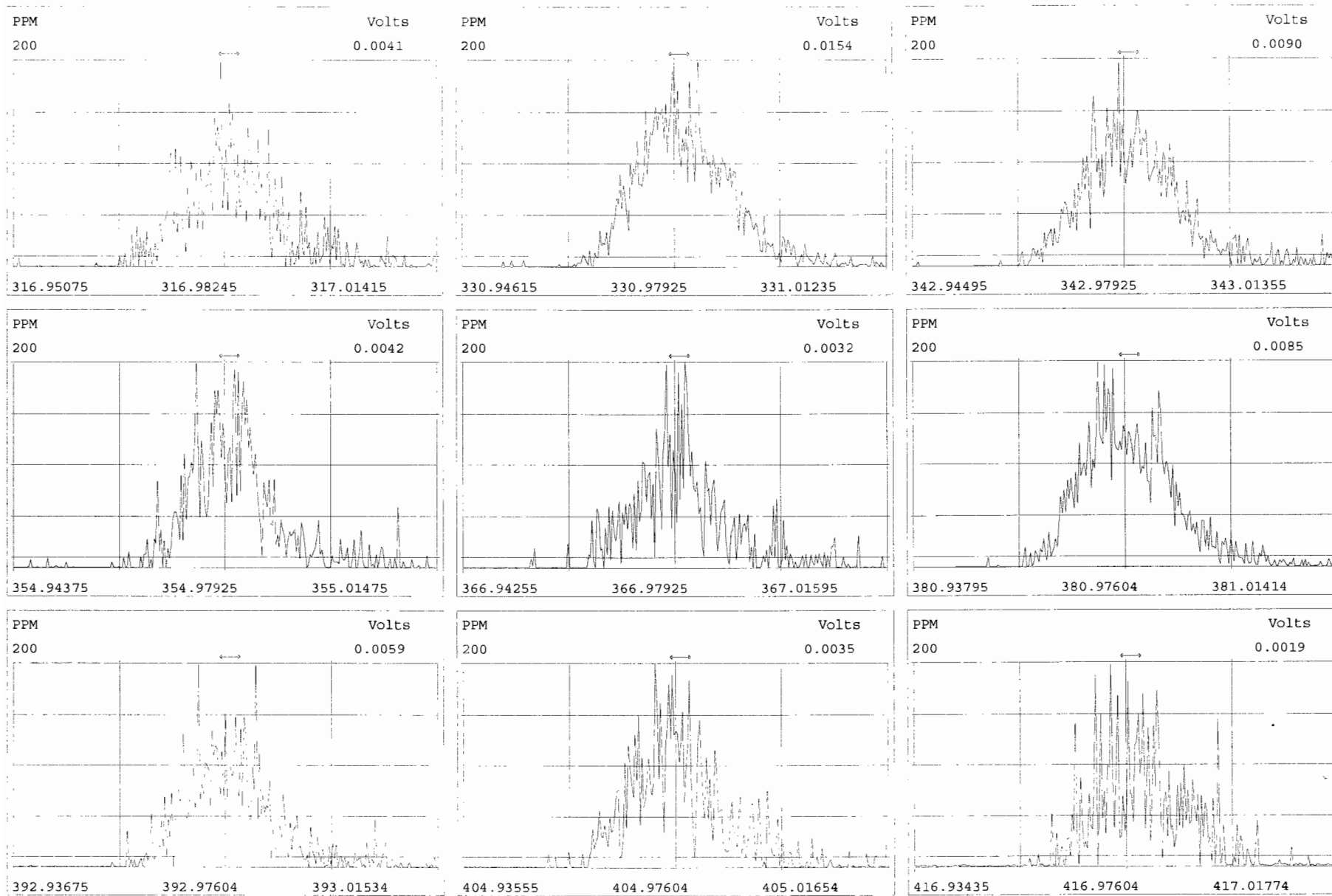
Peak Locate Examination:10-OCT-2019:06:40 File:RES_CHECK

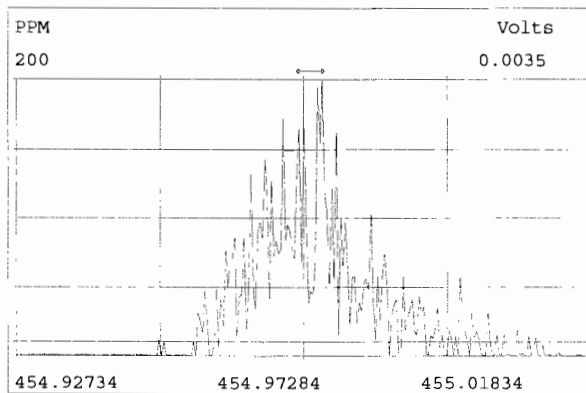
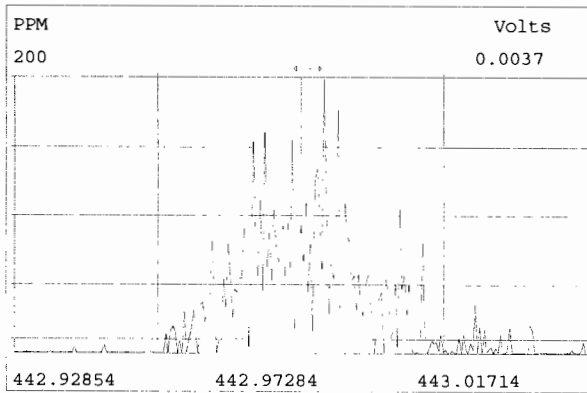
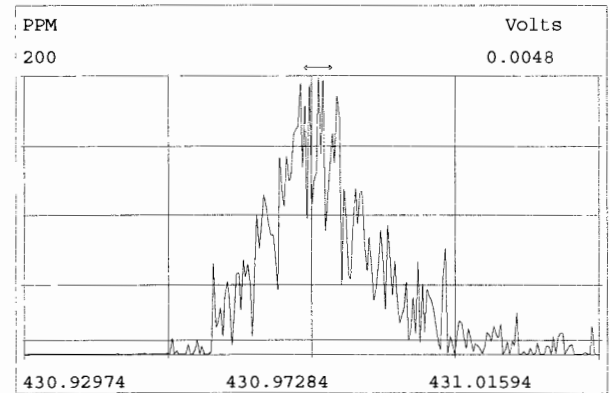
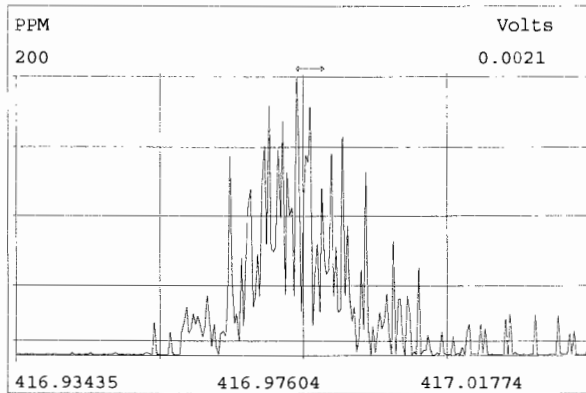
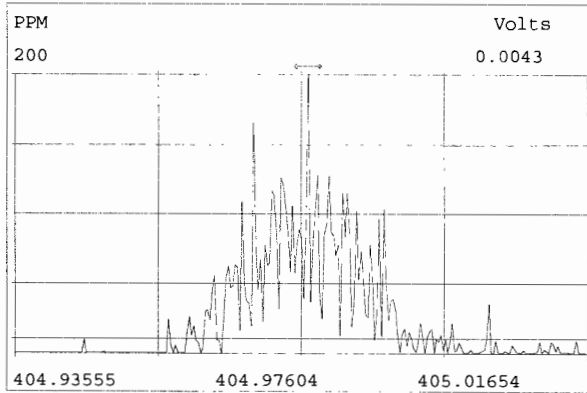
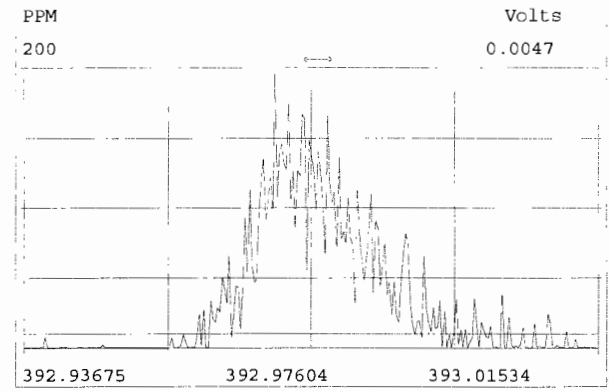
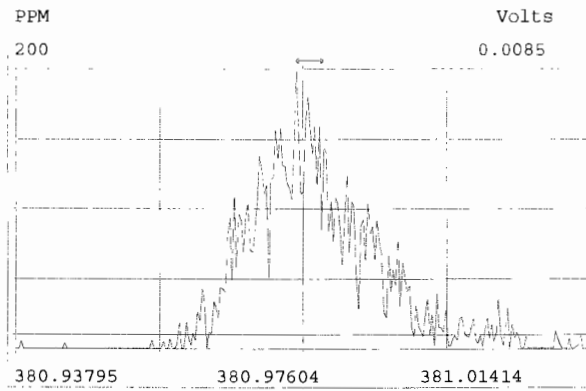
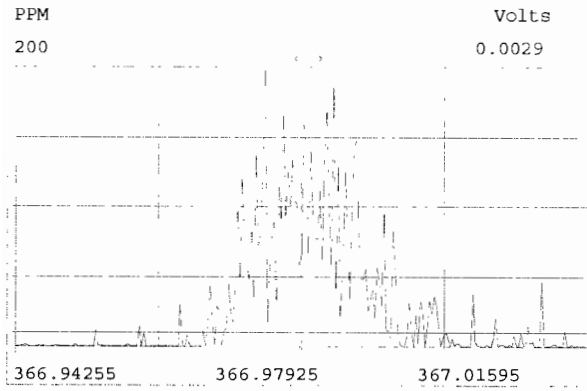
Experiment:OCDD_DB5 Function:1 Reference:PFK

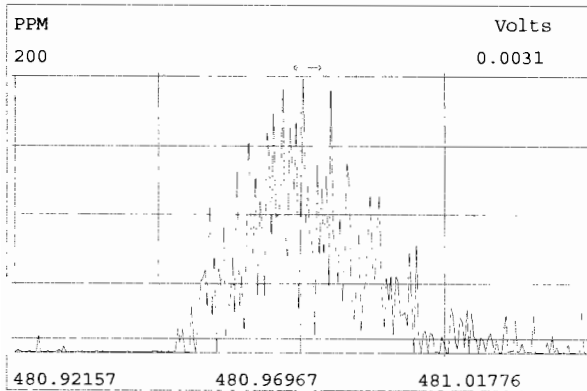
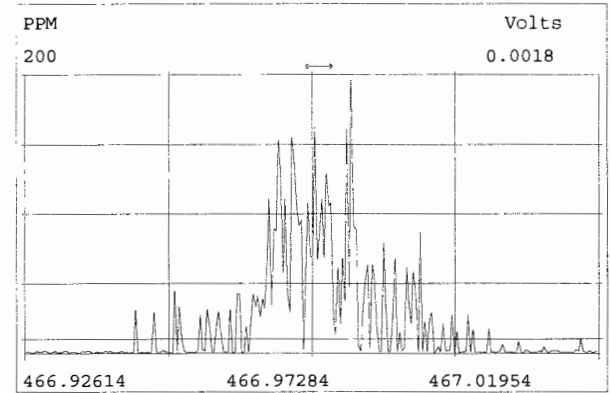
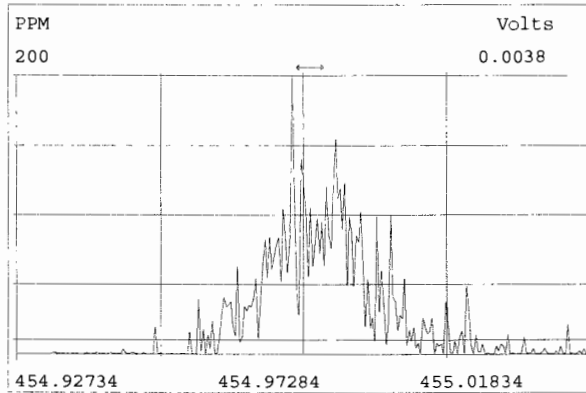
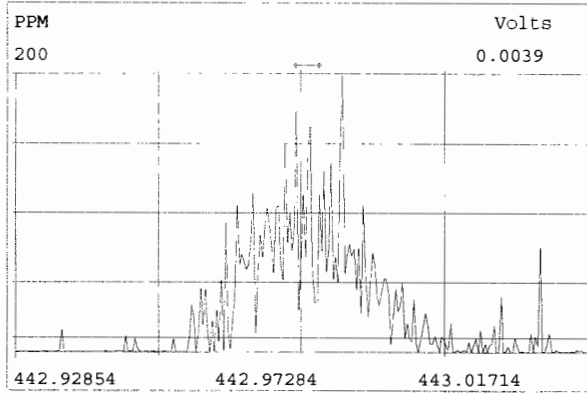
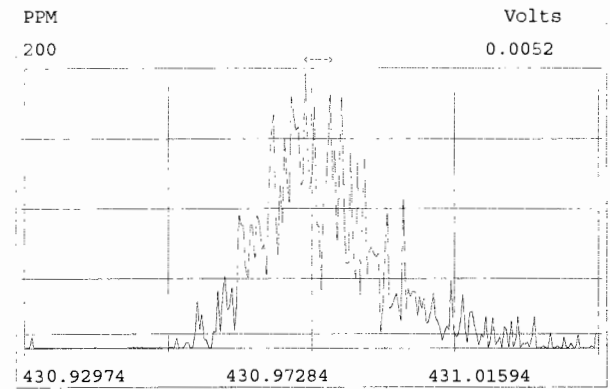
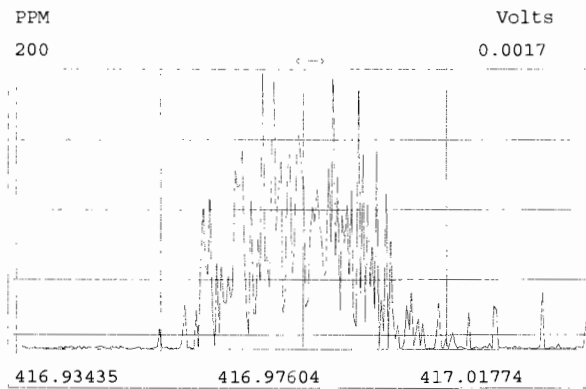
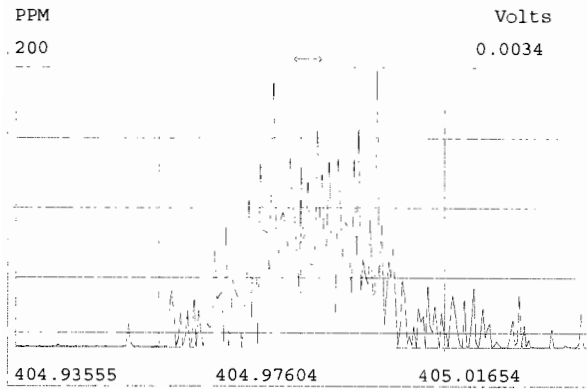


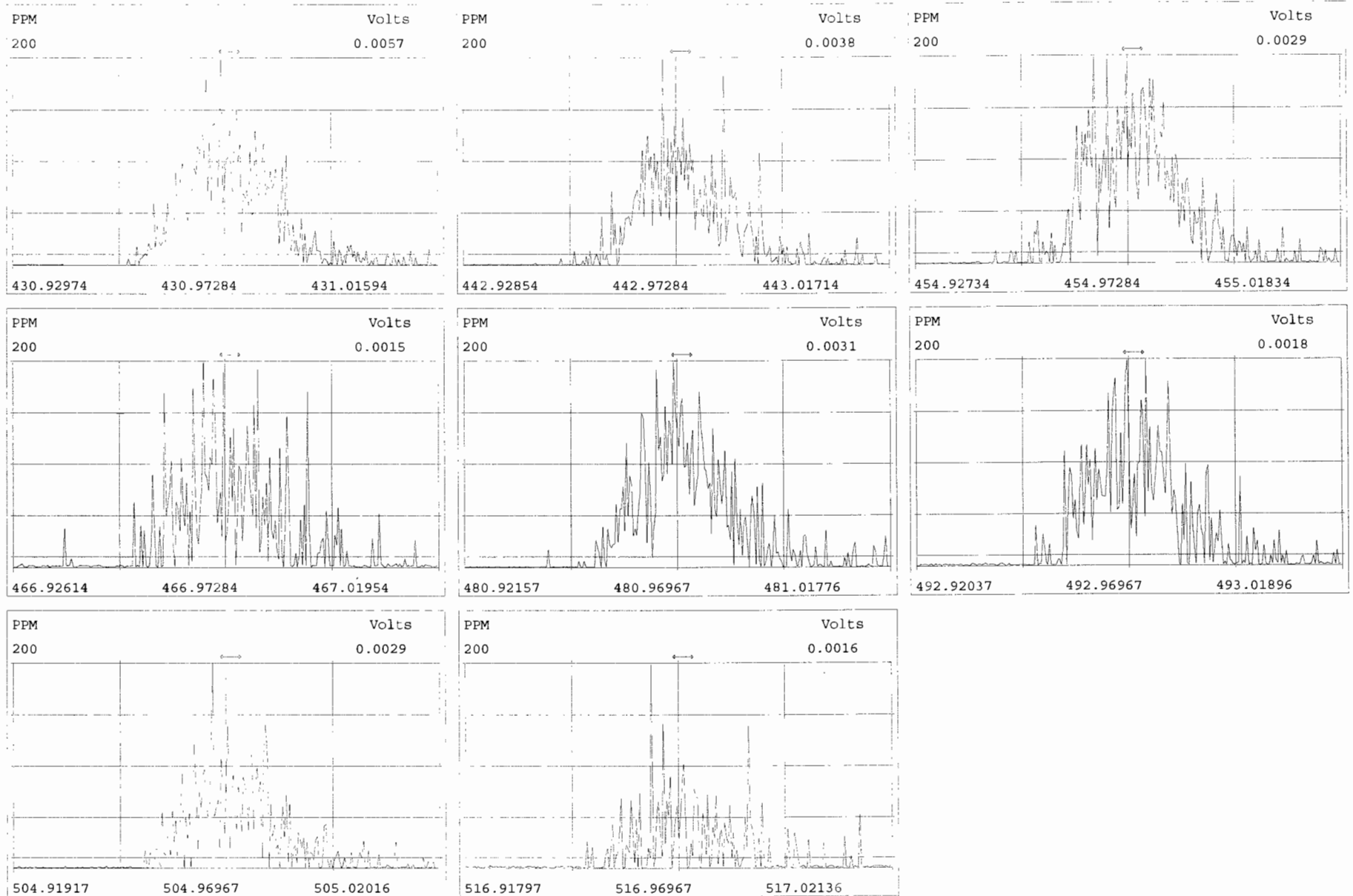
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Experiment:OCDD_DB5 Function:2 Reference:PFK









FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.:

CCAL ID: SS191009D1-1

Contract No.: SAS No.:

Initial Calibration Date: 10-9-19

Instrument ID: VG-7

GC Column ID: ZB-5MS

VER Data Filename: 191009D1 S#8 Analysis Date: 9-OCT-19 Time: 21:46:34

NATIVE ANALYTES	M/Z'S	ION	QC	Pass	CONC.	CONC.
	FORMING	ABUND.	LIMITS		FOUND	RANGE (3)
	RATIO (1)	RATIO	(2)		FOUND	(ng/mL)
2,3,7,8-TCDD	M/M+2	0.83	0.65-0.89	y	10.2	7.8 - 12.9
						8.2 - 12.3 (4)
1,2,3,7,8-PeCDD	M/M+2	0.63	0.54-0.72	y	51.3	39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.31	1.05-1.43	y	48.9	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.18	1.05-1.43	y	52.4	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.17	1.05-1.43	y	50.4	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.02	0.88-1.20	y	51.9	43.0 - 58.0
OCDD	M+2/M+4	0.92	0.76-1.02	y	105	79.0 - 126.0
2,3,7,8-TCDF	M/M+2	0.78	0.65-0.89	y	10.3	8.4 - 12.0
						8.6 - 11.6 (4)
1,2,3,7,8-PeCDF	M+2/M+4	1.54	1.32-1.78	y	50.2	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.60	1.32-1.78	y	56.7	41.0 - 61.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.22	1.05-1.43	y	51.1	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.23	1.05-1.43	y	51.5	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.20	1.05-1.43	y	51.5	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.24	1.05-1.43	y	50.9	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.05	0.88-1.20	y	53.0	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.05	0.88-1.20	y	50.2	43.0 - 58.0
OCDF	M+2/M+4	0.92	0.76-1.02	y	102	63.0 - 159.0

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(3) Contract-required concentration range as specified in Table 6, Method 1613.

(4) Contract-required concentration range as specified in Table 6a, Method 1613, for tetras only.

Analyst: DB

Date: 10/10/19

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 10-9-19

Instrument ID: VG-7

GC Column ID: ZB-5MS

VER Data Filename: 191009D1 S#8 Analysis Date: 9-OCT-19 Time: 21:46:34

LABELED COMPOUNDS	M/Z'S	ION	QC	Pass	CONC. FOUND	CONC. RANGE (ng/mL)
	FORMING RATIO (1)	ABUND. RATIO	LIMITS (2)			
13C-2,3,7,8-TCDD	M/M+2	0.72	0.65-0.89	y	100	82.0 - 121.0
13C-1,2,3,7,8-PeCDD	M/M+2	0.64	0.54-0.72	y	101	62.0 - 160.0
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.23	1.05-1.43	y	95.9	85.0 - 117.0
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	95.6	85.0 - 118.0
13C-1,2,3,7,8,9-HxCDD	M+2/M+4	1.26	1.05-1.43	y	94.3	85.0 - 118.0
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.06	0.88-1.20	y	91.7	72.0 - 138.0
13C-OCDD	M/M+2	0.92	0.76-1.02	y	190	96.0 - 415.0
13C-2,3,7,8-TCDF	M+2/M+4	0.78	0.65-0.89	y	97.2	71.0 - 140.0
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.62	1.32-1.78	y	97.4	76.0 - 130.0
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.59	1.32-1.78	y	96.6	77.0 - 130.0
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	102	76.0 - 131.0
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	101	70.0 - 143.0
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	97.1	73.0 - 137.0
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.51	0.43-0.59	y	99.0	74.0 - 135.0
13C-1,2,3,4,6,7,8-HpCDF	M+2/M+4	0.43	0.37-0.51	y	96.6	78.0 - 129.0
13C-1,2,3,4,7,8,9-HpCDF	M+2/M+4	0.44	0.37-0.51	y	102	77.0 - 129.0
13C-OCDF	M+2/M+4	0.88	0.76-1.02	y	197	96.0 - 415.0
CLEANUP STANDARD (3)						
37Cl-2,3,7,8-TCDD					9.08	7.9 - 12.7

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified

(3) No ion abundance ratio; report concentration found.

Analyst: DB

Date: 10/10/19

FORM 6A
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 10-9-19

Instrument ID: VG-7 GC Column ID: ZB-5MS

VER Data Filename: 191009D1 S#8 Analysis Date: 9-OCT-19 Time: 21:46:34

Compounds Using 13C-1234-TCDD as RT Internal Standard

NATIVE ANALYTES	RETENTION TIME	RRT	RRT
	REFERENCE		QC LIMITS (1)
2,3,7,8-TCDD	13C-2,3,7,8-TCDD	1.001	0.999-1.002
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD	1.000	0.999-1.002
2,3,7,8-TCDF	13C-2,3,7,8-TCDF	1.001	0.999-1.003
1,2,3,7,8-PeCDF	13C-1,2,3,7,8-PeCDF	1.000	0.999-1.002
2,3,4,7,8-PeCDF	13C-2,3,4,7,8-PeCDF	1.000	0.999-1.002
LABELED COMPOUNDS			
13C-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.022	0.976-1.043
13C-1,2,3,7,8-PeCDD	13C-1,2,3,4-TCDD	1.189	1.000-1.567
13C-2,3,7,8-TCDF	13C-1,2,3,4-TCDD	0.994	0.923-1.103
13C-1,2,3,7,8-PeCDF	13C-1,2,3,4-TCDD	1.145	1.000-1.425
13C-2,3,4,7,8-PeCDF	13C-1,2,3,4-TCDD	1.179	1.011-1.526
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.022	0.989-1.052

Analyst: DB

Date: 10/10/19

FORM 6B
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Vista Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 10-9-19

Instrument ID: VG-7

GC Column ID: ZB-5MS

VER Data Filename: 191009D1 S#8 Analysis Date: 9-OCT-19 Time: 21:46:34

NATIVE ANALYTES	RETENTION TIME	RRT	RRT
	REFERENCE		QC LIMITS (1)
1,2,3,4,7,8-HxCDF	13C-1,2,3,4,7,8-HxCDF	1.000	0.999-1.001
1,2,3,6,7,8-HxCDF	13C-1,2,3,6,7,8-HxCDF	1.000	0.997-1.005
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF	1.000	0.999-1.001
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF	1.001	0.999-1.001
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD	1.001	0.999-1.001
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.000	0.998-1.004
1,2,3,7,8,9-HxCDD	13C-1,2,3,7,8,9-HxCDD	1.001	0.998-1.004
1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,7,8-HpCDF	1.000	0.999-1.001
1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,7,8-HpCDD	1.000	0.999-1.001
1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,7,8,9-HpCDF	1.000	0.999-1.001
OCDD	13C-OCDD	1.000	0.999-1.001
OCDF	13C-OCDF	1.000	0.999-1.001

LABELED COMPOUNDS

13C-1,2,3,4,7,8-HxCDF	13C-1,2,3,4,6,9-HxCDF	0.987	0.975-1.001
13C-1,2,3,6,7,8-HxCDF	13C-1,2,3,4,6,9-HxCDF	0.991	0.979-1.005
13C-2,3,4,6,7,8-HxCDF	13C-1,2,3,4,6,9-HxCDF	1.010	1.001-1.020
13C-1,2,3,7,8,9-HxCDF	13C-1,2,3,4,6,9-HxCDF	1.040	1.002-1.072
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.014	1.002-1.026
13C-1,2,3,6,7,8-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.018	1.007-1.029
13C-1,2,3,7,8,9-HxCDD	13C-1,2,3,4,6,9-HxCDF	1.027	1.014-1.038
13C-1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,9-HxCDF	1.093	1.069-1.111
13C-1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,6,9-HxCDF	1.145	1.098-1.192
13C-1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,9-HxCDF	1.127	1.117-1.141
13C-OCDD	13C-1,2,3,4,6,9-HxCDF	1.227	1.085-1.365
13C-OCDF	13C-1,2,3,4,6,9-HxCDF	1.235	1.091-1.371

Analyst: DB

Date: 10/10/19

Client ID: 1613 SSS 19C2207
Lab ID: SS191009D1-1

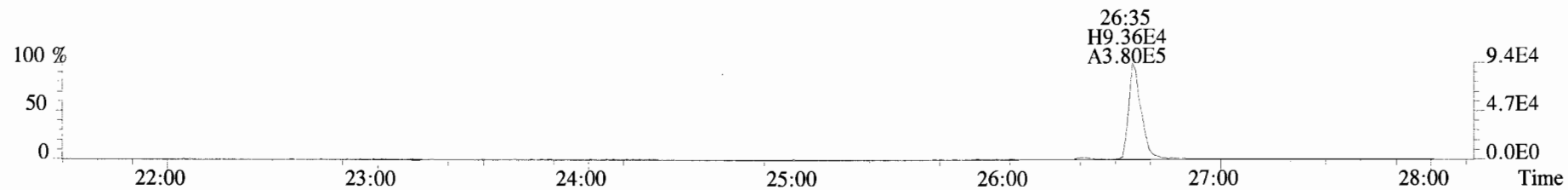
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EndCAL: NA

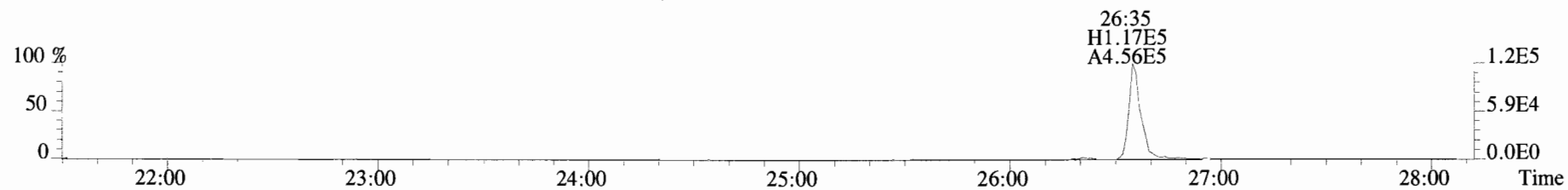
Name	Resp	RA	RRF	RT	Conc	Qual	noise	Fac	DL	Name	Conc	EMPC	Qual	noise	DL
2,3,7,8-TCDD	8.36e+05	0.83 y	0.91	26:36	10.234		* 2.5		*	Total Tetra-Dioxins	10.4	11.4		*	*
1,2,3,7,8-PeCDD	3.38e+06	0.63 y	0.90	30:57	51.323		* 2.5		*	Total Penta-Dioxins	51.4	51.7		*	*
1,2,3,4,7,8-HxCDD	2.55e+06	1.31 y	1.10	34:18	48.909		* 2.5		*	Total Hexa-Dioxins	153	153		*	*
1,2,3,6,7,8-HxCDD	3.09e+06	1.18 y	0.94	34:24	52.378		* 2.5		*	Total Hepta-Dioxins	53.5	54.4		*	*
1,2,3,7,8,9-HxCDD	2.83e+06	1.17 y	0.96	34:44	50.434		* 2.5		*	Total Tetra-Furans	10.7	11.4		*	*
1,2,3,4,6,7,8-HpCDD	2.34e+06	1.02 y	0.98	38:07	51.915		* 2.5		*	Total Penta-Furans	110.38	111.73		*	*
OCDD	4.27e+06	0.92 y	0.96	41:30	105.37		* 2.5		*	Total Hexa-Furans	205	207		*	*
										Total Hepta-Furans	104	106		*	*
2,3,7,8-TCDF	1.24e+06	0.78 y	0.95	25:53	10.342		* 2.5		*						
1,2,3,7,8-PeCDF	5.03e+06	1.54 y	0.96	29:48	50.200		* 2.5		*						
2,3,4,7,8-PeCDF	5.90e+06	1.60 y	1.01	30:42	56.719		* 2.5		*						
1,2,3,4,7,8-HxCDF	3.94e+06	1.22 y	1.18	33:23	51.086		* 2.5		*						
1,2,3,6,7,8-HxCDF	4.44e+06	1.23 y	1.07	33:31	51.491		* 2.5		*						
2,3,4,6,7,8-HxCDF	4.08e+06	1.20 y	1.11	34:08	51.474		* 2.5		*						
1,2,3,7,8,9-HxCDF	3.40e+06	1.24 y	1.06	35:10	50.903		* 2.5		*						
1,2,3,4,6,7,8-HpCDF	3.36e+06	1.05 y	1.13	36:58	53.010		* 2.5		*						
1,2,3,4,7,8,9-HpCDF	2.94e+06	1.05 y	1.28	38:42	50.216		* 2.5		*						
OCDF	5.04e+06	0.92 y	0.95	41:45	102.23		* 2.5		*						
IS	13C-2,3,7,8-TCDD	9.02e+06	0.72 y	1.10	26:35	100.49				Rec	Qual				
IS	13C-1,2,3,7,8-PeCDD	7.29e+06	0.64 y	0.88	30:56	100.87				100					
IS	13C-1,2,3,4,7,8-HxCDD	4.73e+06	1.23 y	0.64	34:16	95.948				101					
IS	13C-1,2,3,6,7,8-HxCDD	6.28e+06	1.25 y	0.86	34:24	95.558				95.9					
IS	13C-1,2,3,7,8,9-HxCDD	5.85e+06	1.26 y	0.81	34:43	94.306				95.6					
IS	13C-1,2,3,4,6,7,8-HpCDD	4.61e+06	1.06 y	0.65	38:06	91.680				94.3					
IS	13C-OCDD	8.45e+06	0.92 y	0.58	41:29	189.68				91.7					
IS	13C-2,3,7,8-TCDF	1.26e+07	0.78 y	1.03	25:52	97.199				94.8					
IS	13C-1,2,3,7,8-PeCDF	1.04e+07	1.62 y	0.85	29:48	97.425				97.2					
IS	13C-2,3,4,7,8-PeCDF	1.03e+07	1.59 y	0.85	30:41	96.649				97.4					
IS	13C-1,2,3,4,7,8-HxCDF	6.55e+06	0.51 y	0.83	33:22	102.43				96.6					
IS	13C-1,2,3,6,7,8-HxCDF	8.06e+06	0.51 y	1.03	33:30	101.42				102					
IS	13C-2,3,4,6,7,8-HxCDF	7.11e+06	0.51 y	0.95	34:08	97.073				101					
IS	13C-1,2,3,7,8,9-HxCDF	6.30e+06	0.51 y	0.83	35:09	98.999				97.1					
IS	13C-1,2,3,4,6,7,8-HpCDF	5.62e+06	0.43 y	0.76	36:57	96.588				99.0					
IS	13C-1,2,3,4,7,8,9-HpCDF	4.58e+06	0.44 y	0.58	38:42	102.46				96.6					
IS	13C-OCDF	1.04e+07	0.88 y	0.69	41:44	196.65				102					
C/Up	37Cl-2,3,7,8-TCDD	8.91e+05		1.20	26:36	9.0817				98.3					
RS/RT	13C-1,2,3,4-TCDD	8.20e+06	0.76 y	1.00	26:01	100.00									
RS	13C-1,2,3,4-TCDF	1.25e+07	0.82 y	1.00	24:42	100.00									
RS/RT	13C-1,2,3,4,6,9-HxCDF	7.68e+06	0.50 y	1.00	33:48	100.00									

Integrations Reviewed
by DB
Analyst: DB Analyst: CT
Date: 10/10/19 Date: 10/10/19

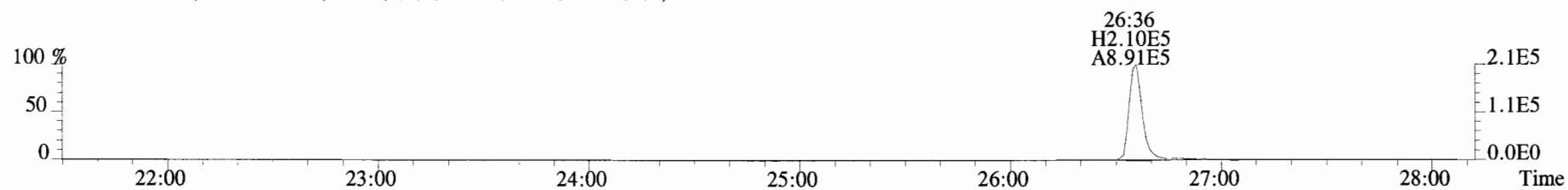
File:191009D1 #1-514 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory_VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD_DB5
319.8965 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



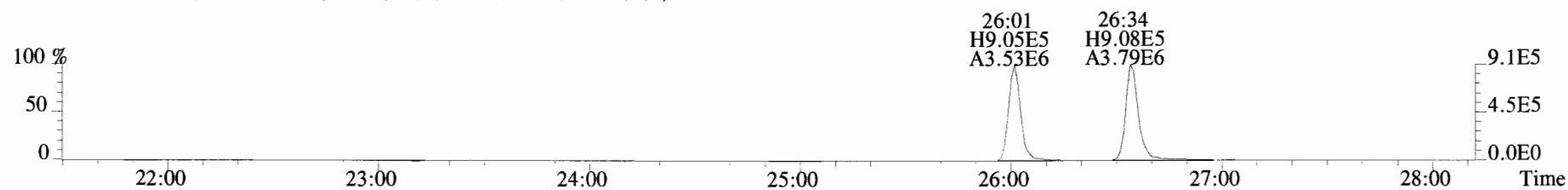
321.8936 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



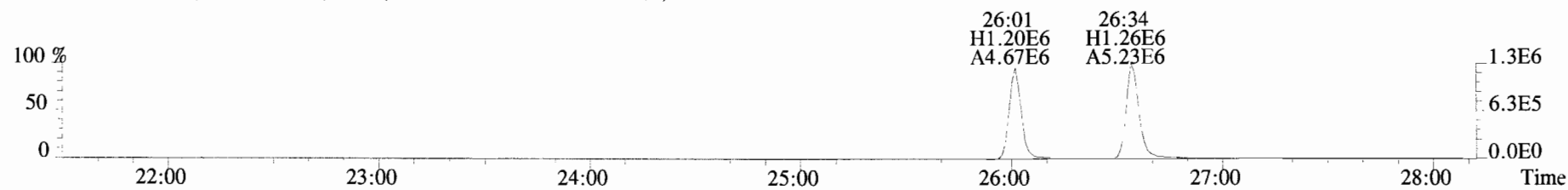
327.8847 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



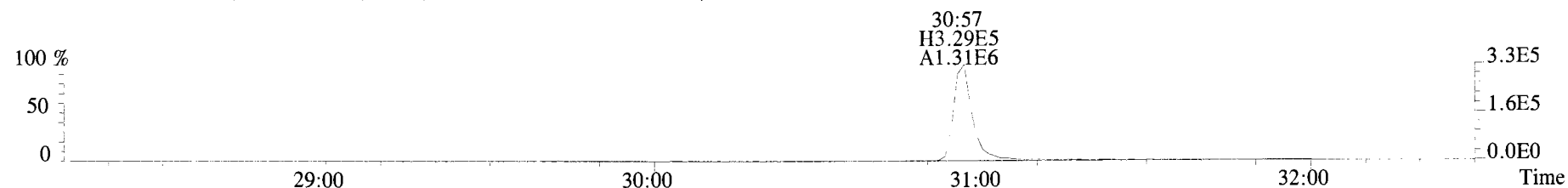
331.9368 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



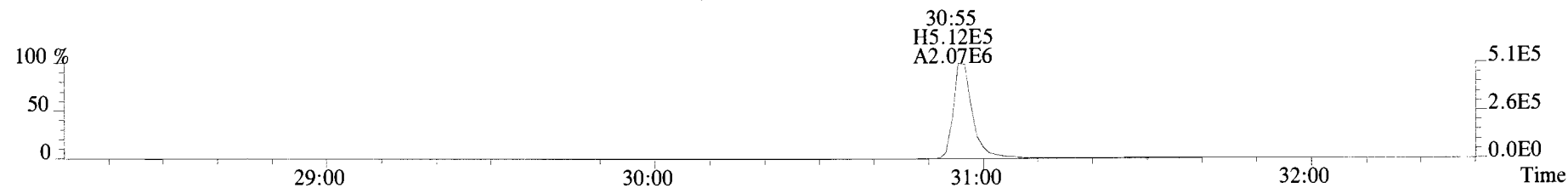
333.9339 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



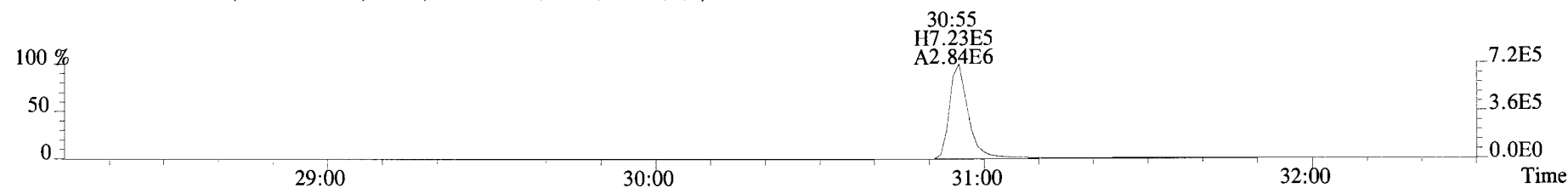
File:191009D1 #1-210 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text: Vista Analytical Laboratory VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD_DB5
353.8576 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



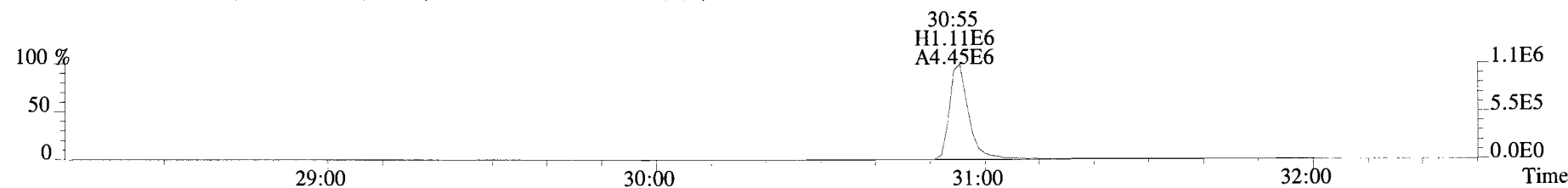
355.8546 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



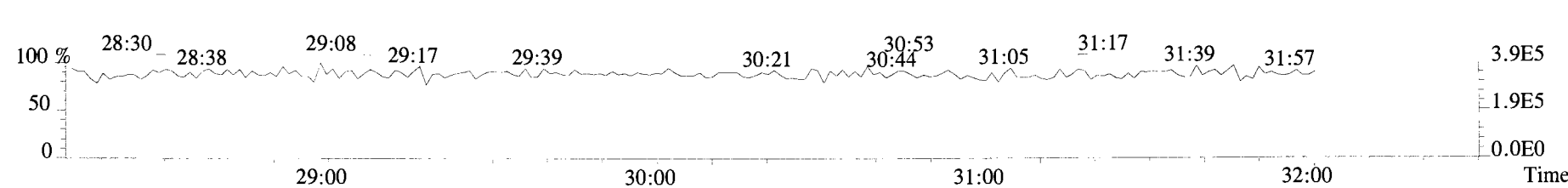
365.8978 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



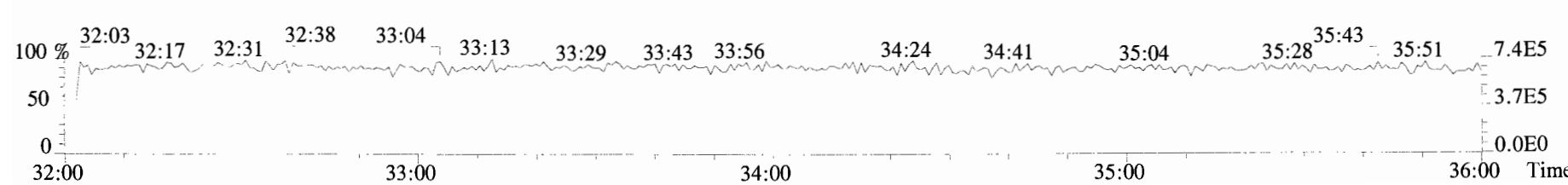
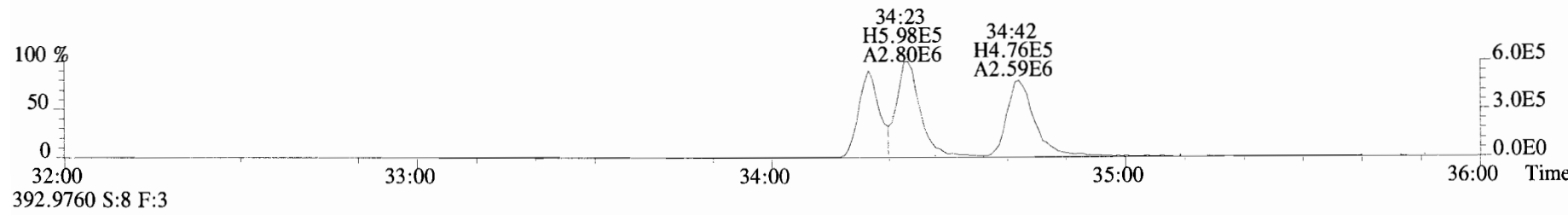
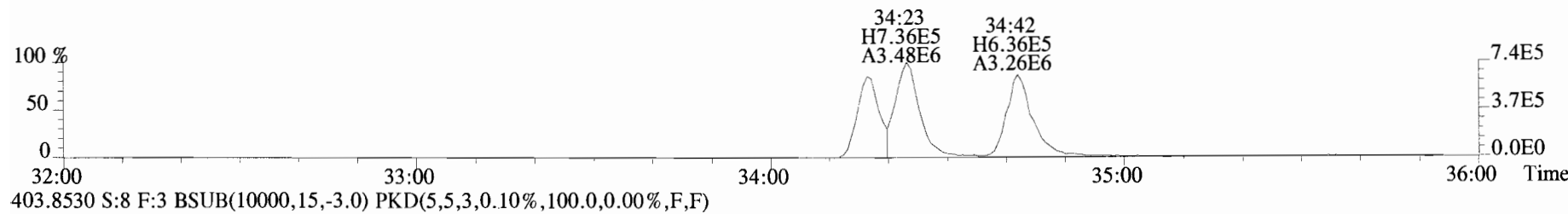
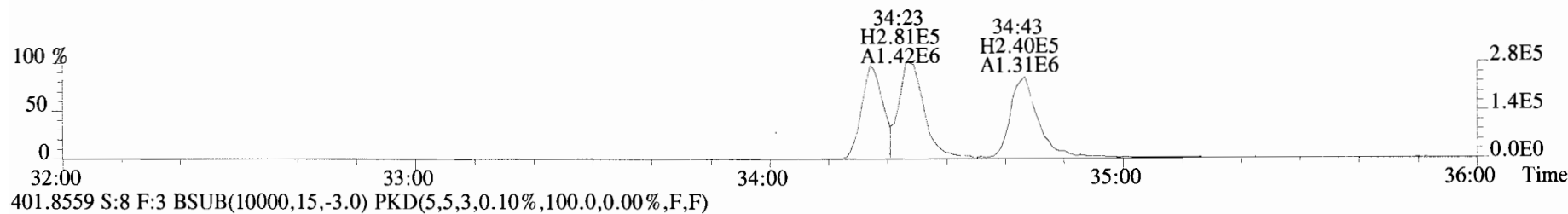
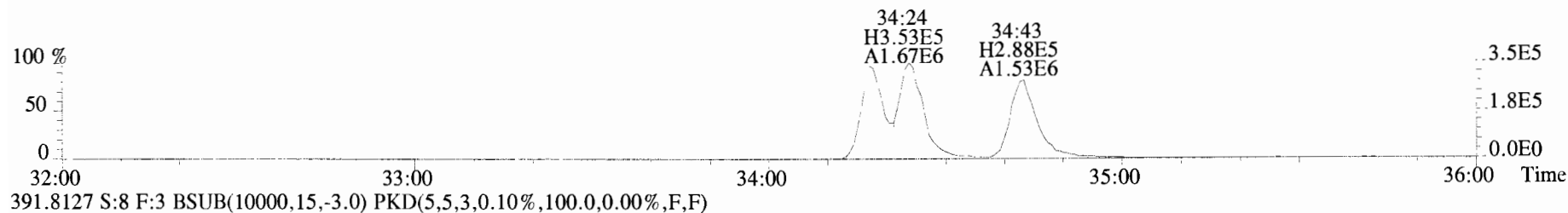
367.8949 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



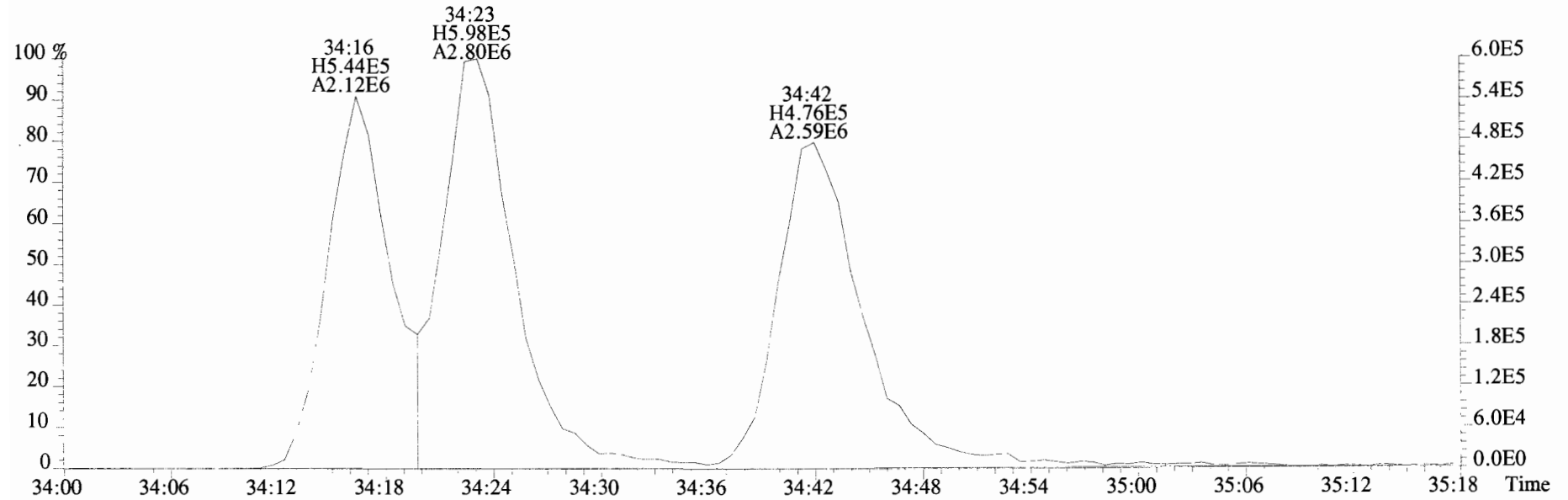
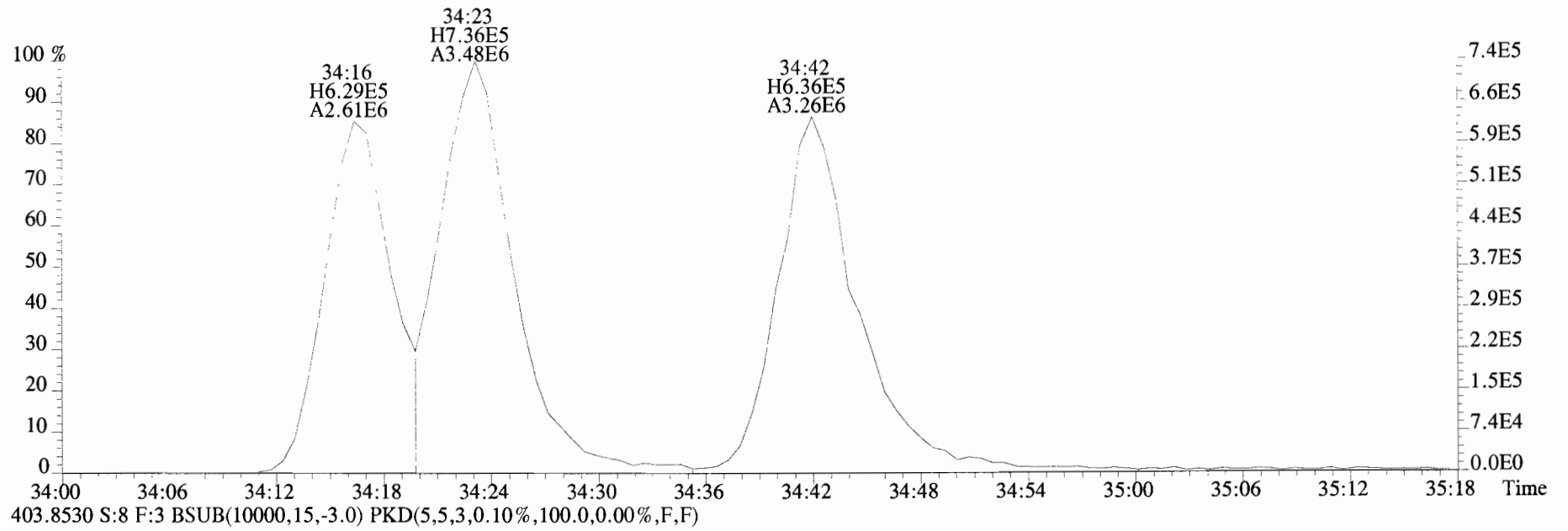
366.9792 S:8 F:2



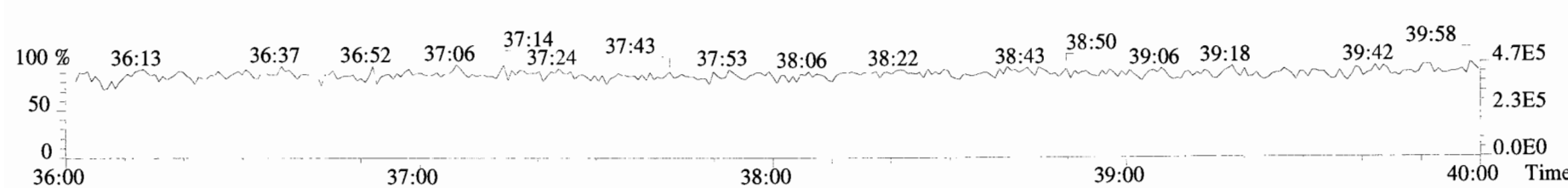
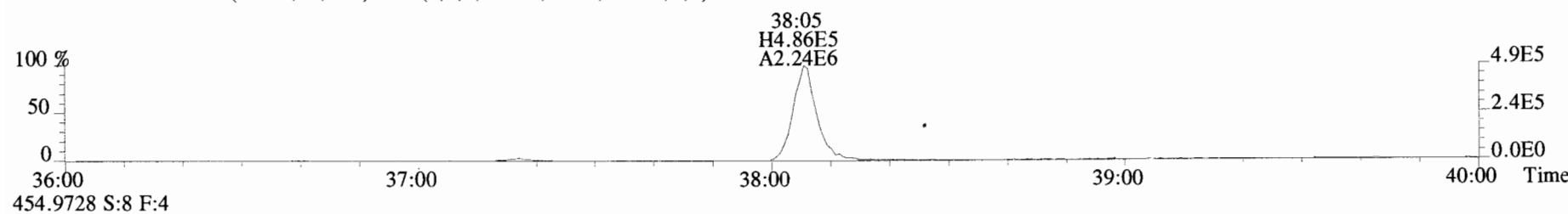
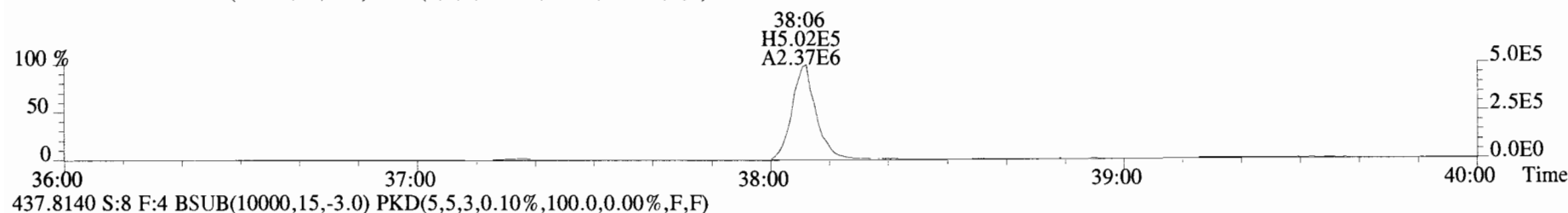
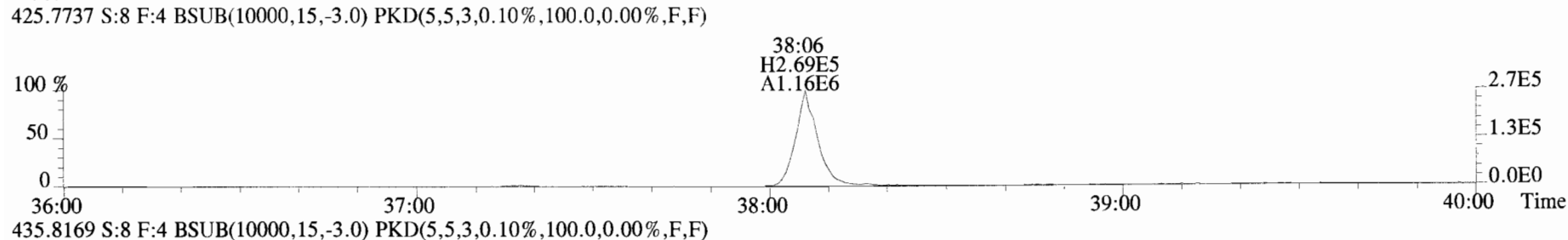
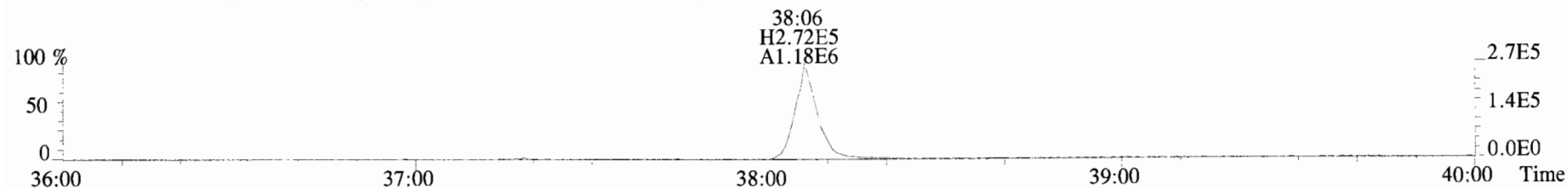
File:191009D1 #1-355 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista_Analytical_Laboratory_VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD_DB5
389.8156 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



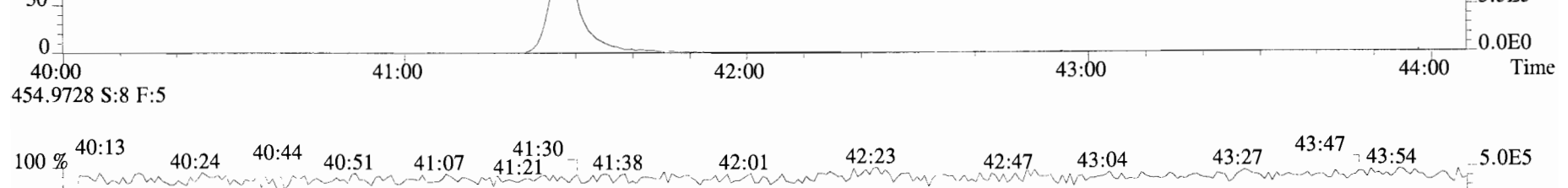
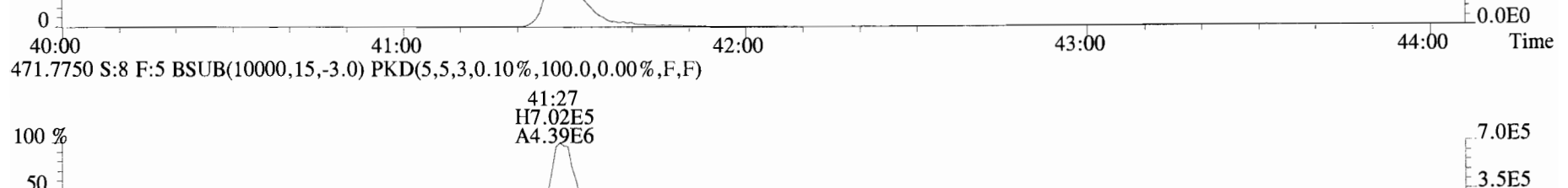
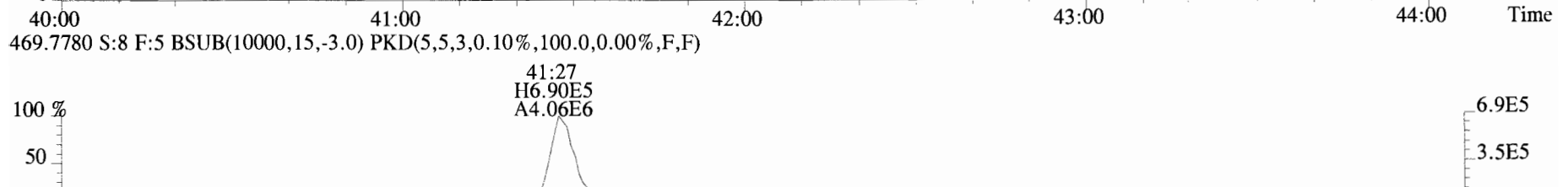
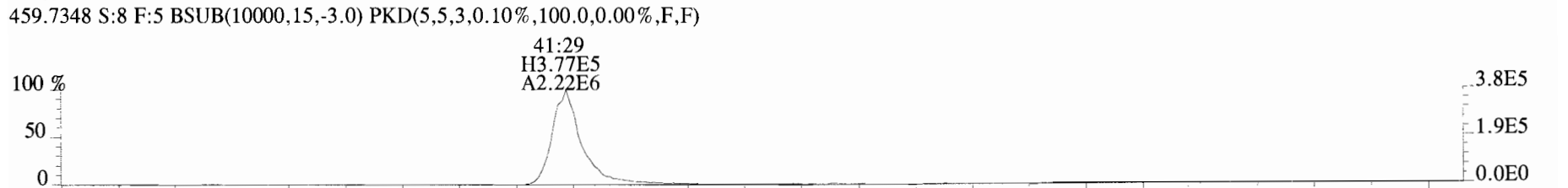
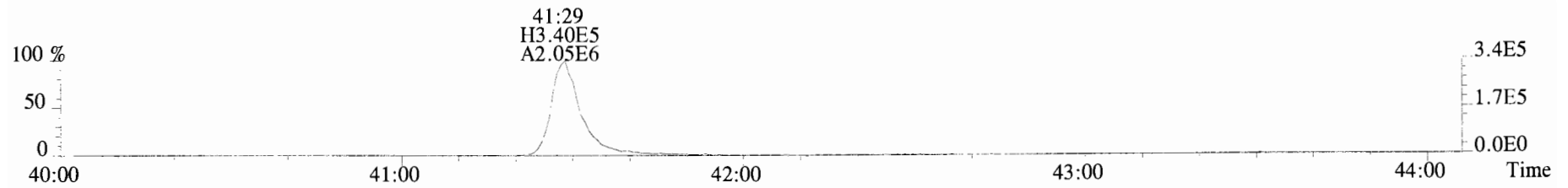
File:191009D1 #1-355 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory_VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD_DB5
401.8559 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



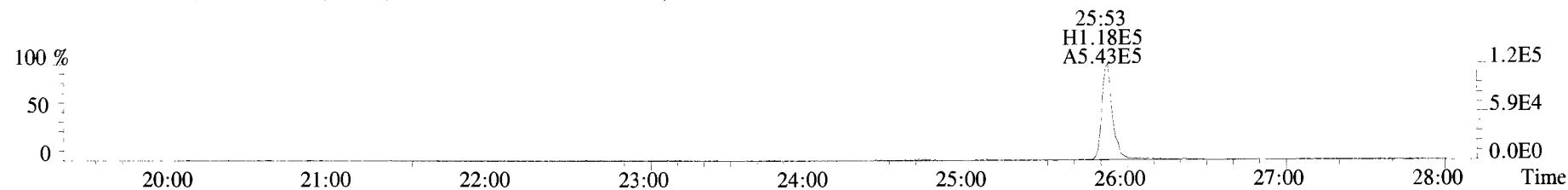
File:191009D1 #1-356 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical_Laboratory_VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD_DB5
423.7767 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



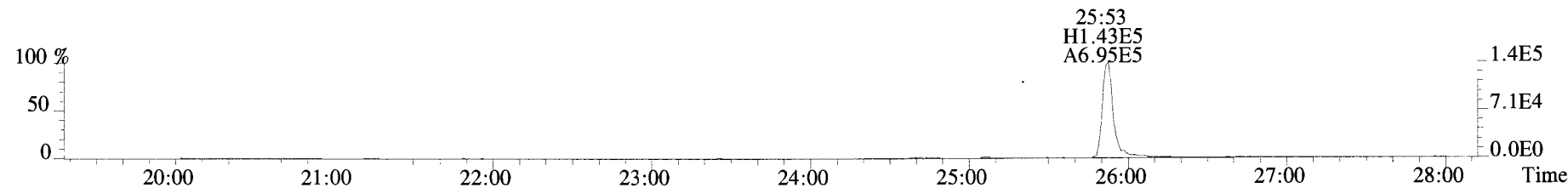
File:191009D1 #1-431 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista_Analytical_Laboratory_VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD_DB5
457.7377 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



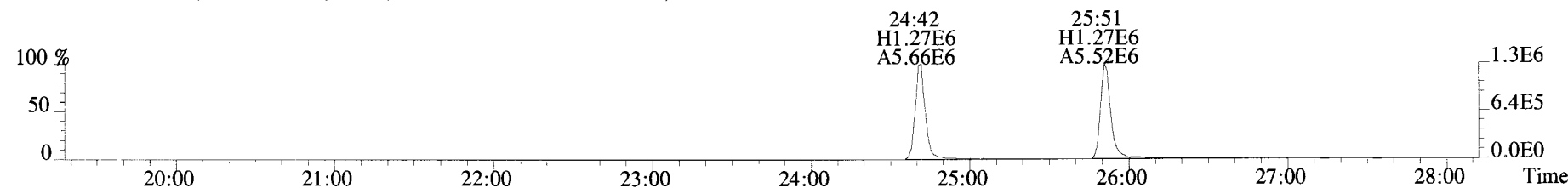
File:191009D1 #1-514 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text: Vista Analytical Laboratory_VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD_DB5
303.9016 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



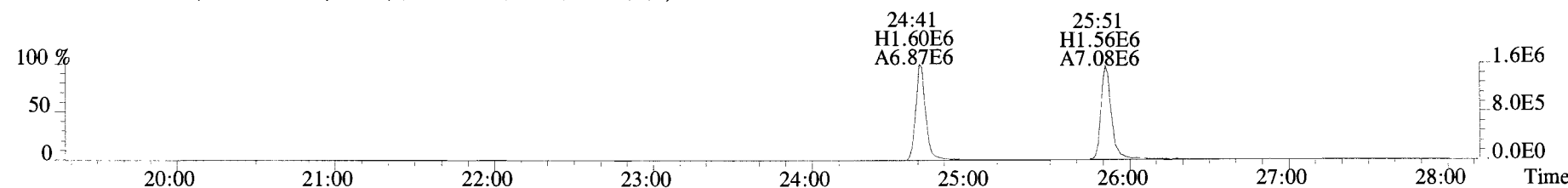
305.8987 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



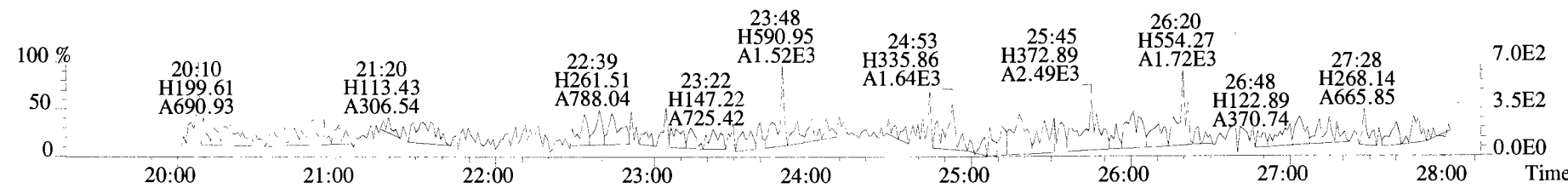
315.9419 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



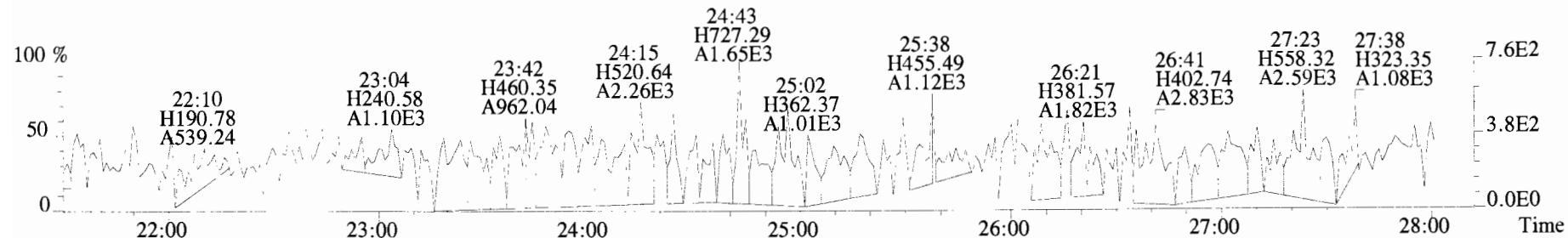
317.9389 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



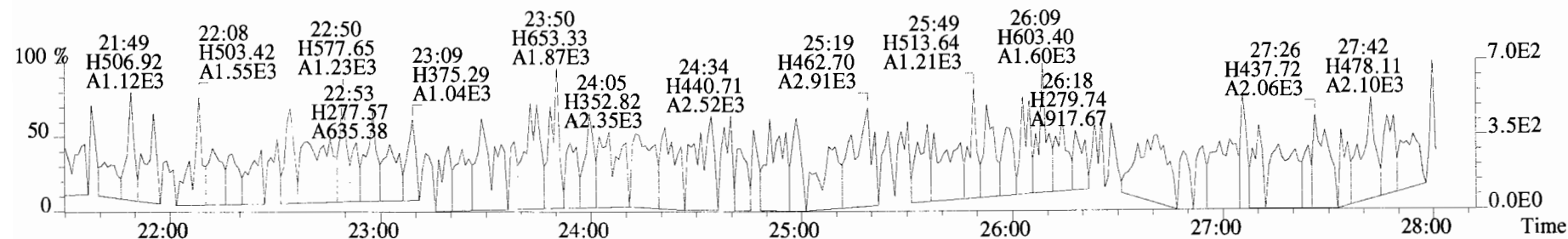
375.8364 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



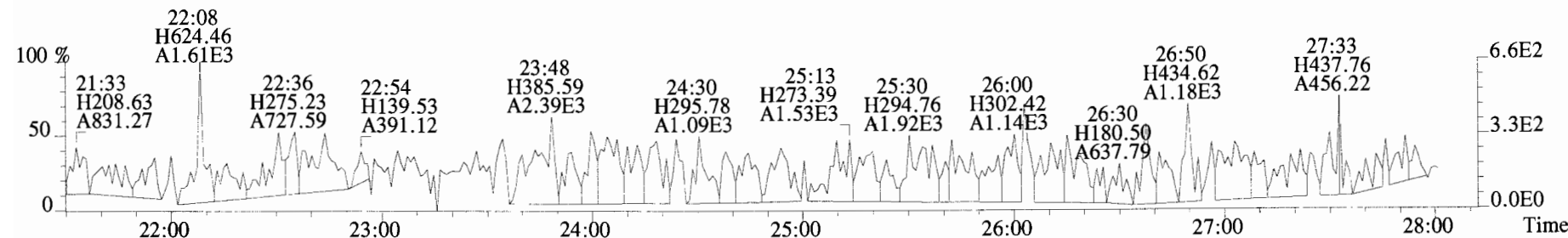
File:191009D1 #1-514 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory_VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD_DB5
339.8597 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



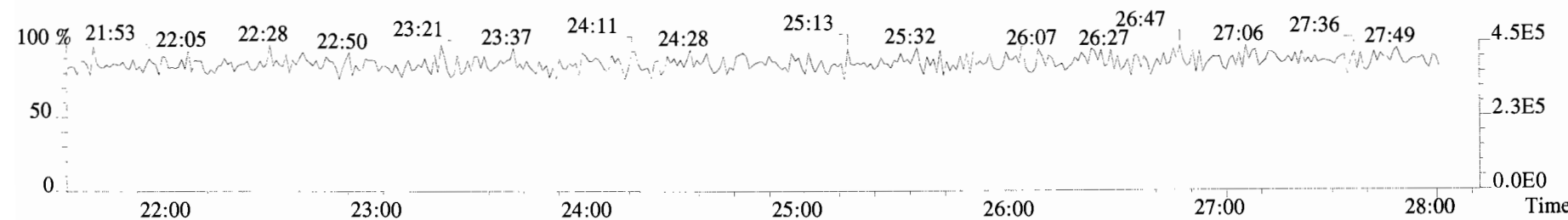
341.8568 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



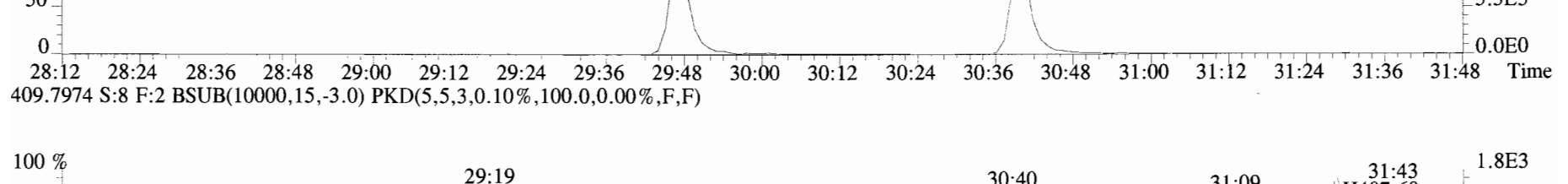
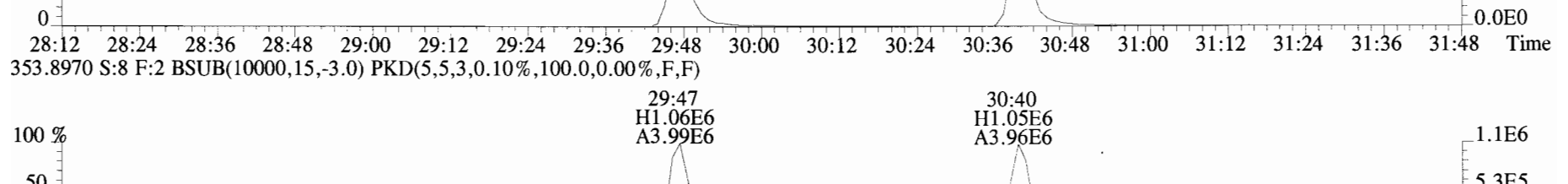
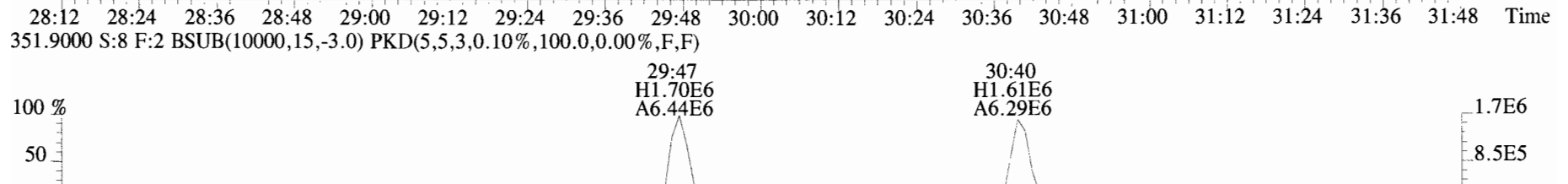
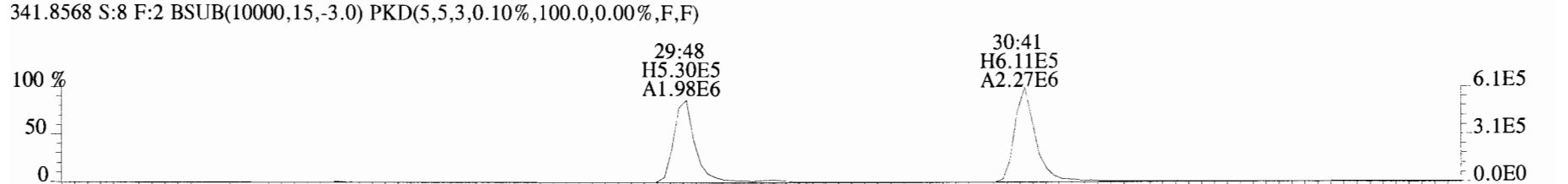
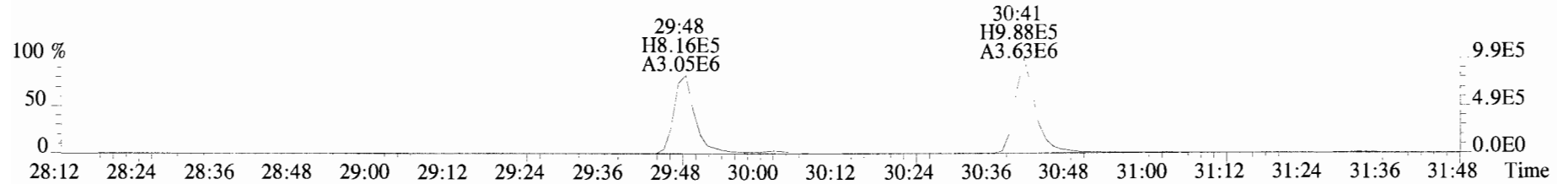
409.7974 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



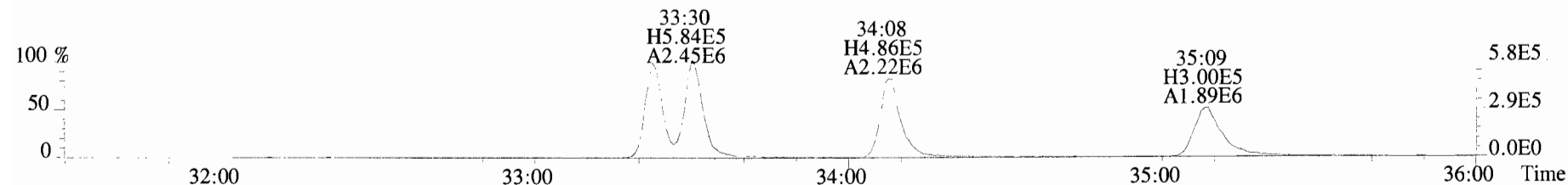
316.9824 S:8



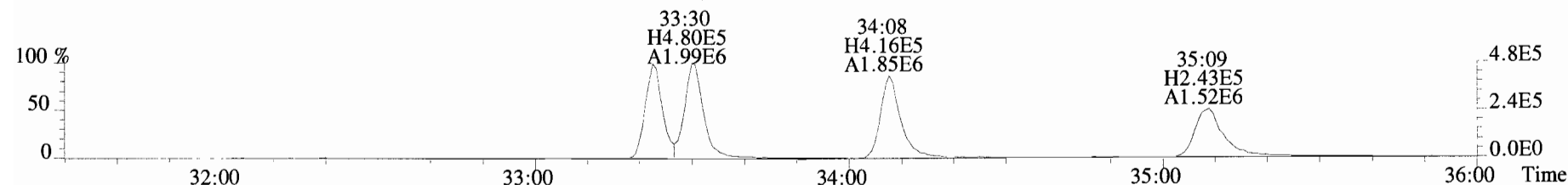
File:191009D1 #1-210 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista_Analytical_Laboratory_VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD_DB5
339.8597 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



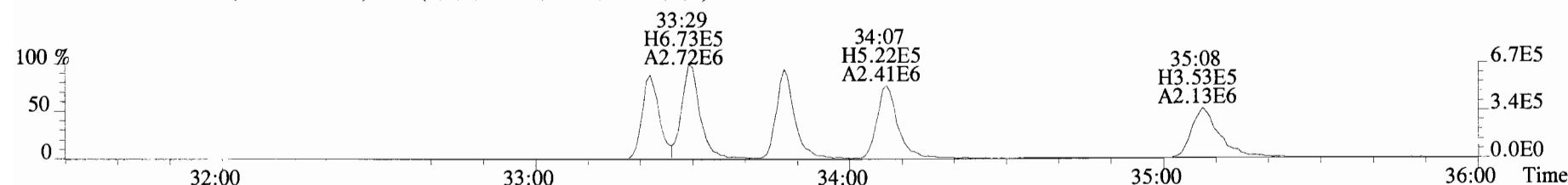
File:191009D1 #1-355 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#8 File Text:Vista_Analytical_Laboratory_VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD_DB5
 373.8207 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



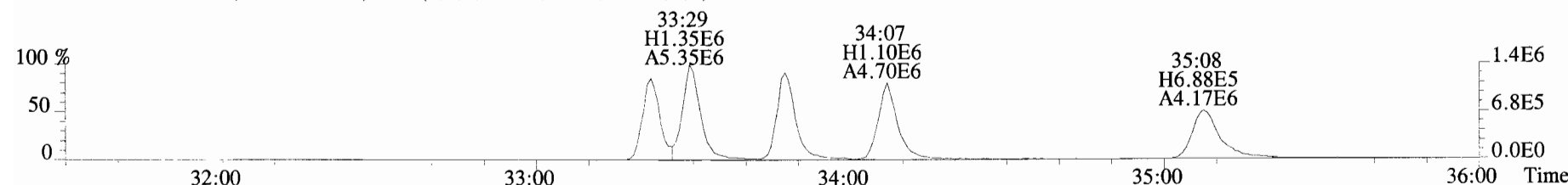
375.8178 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



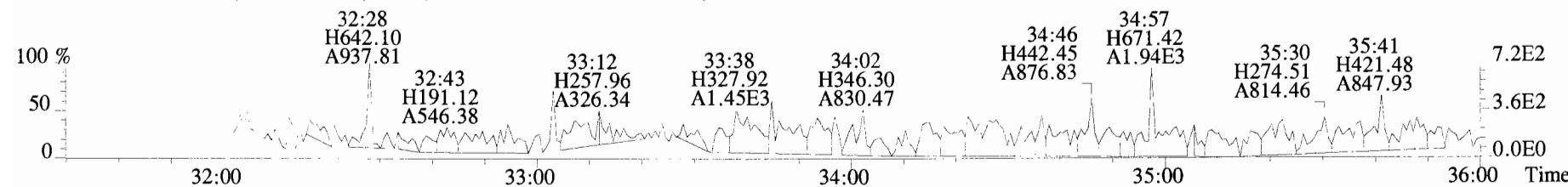
383.8639 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



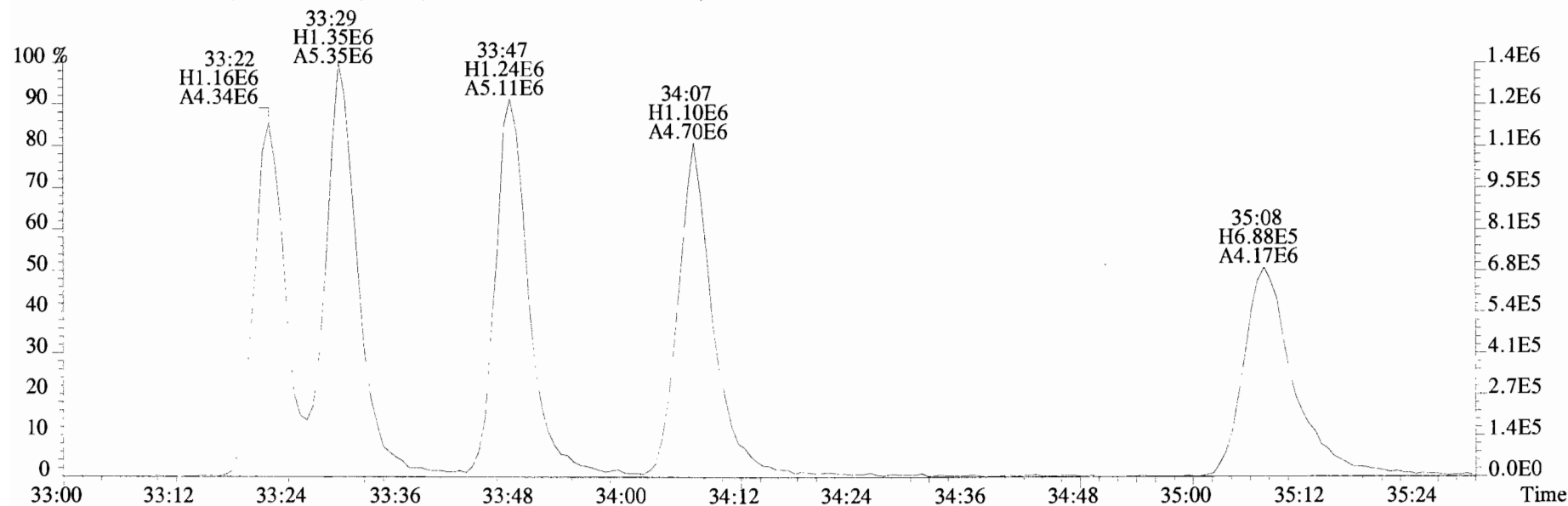
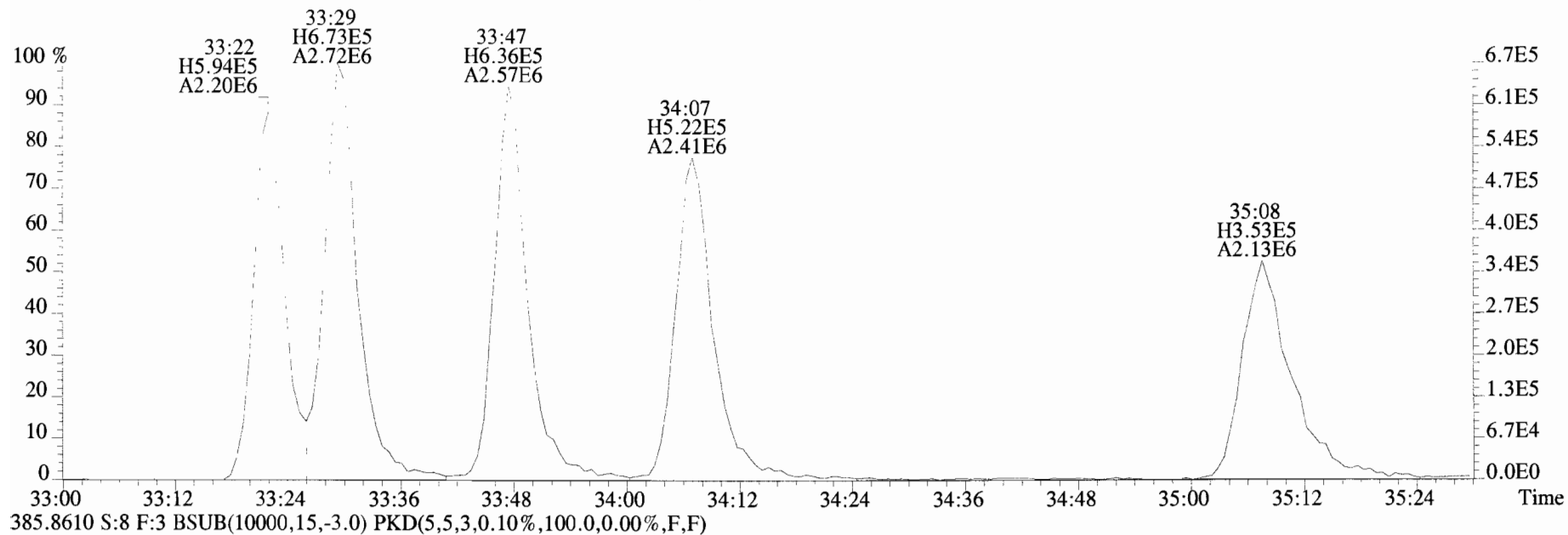
385.8610 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



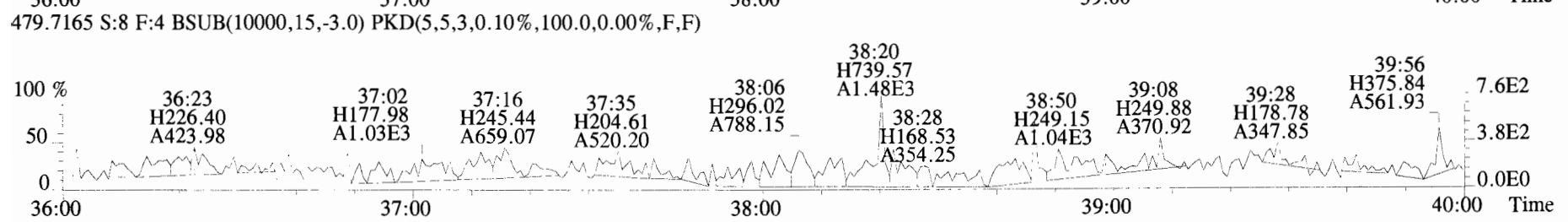
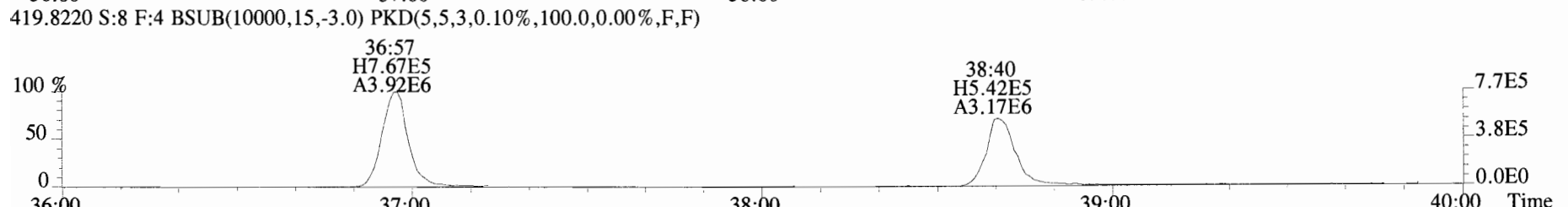
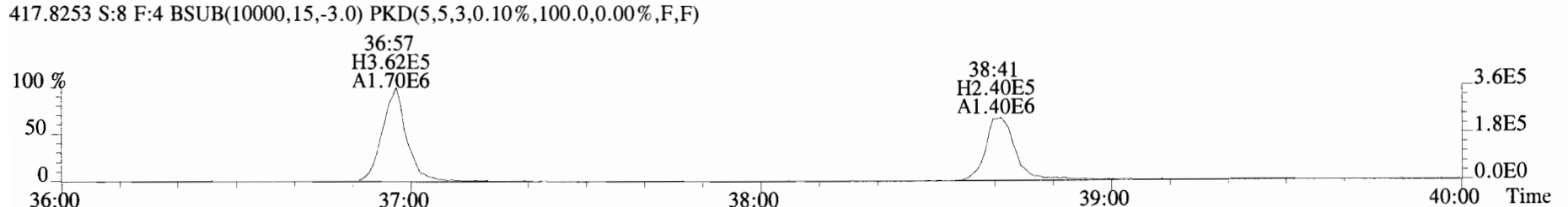
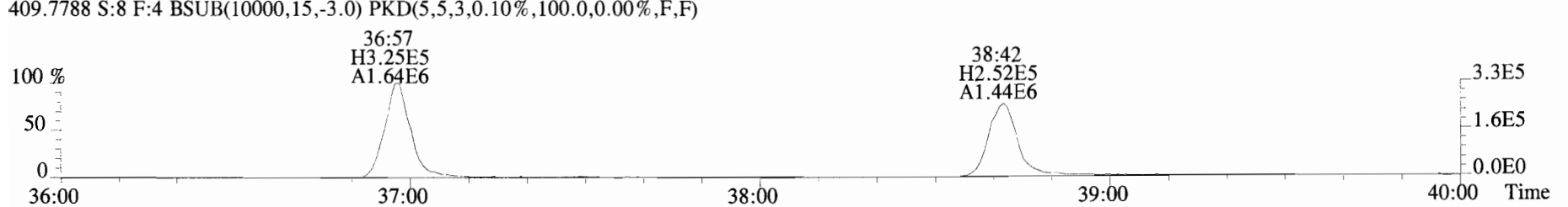
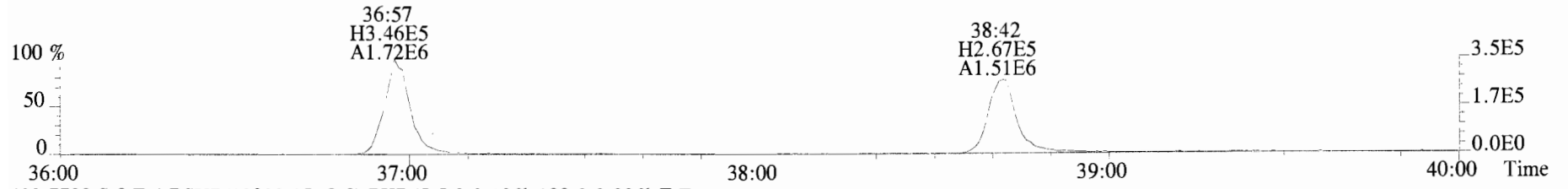
445.7555 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



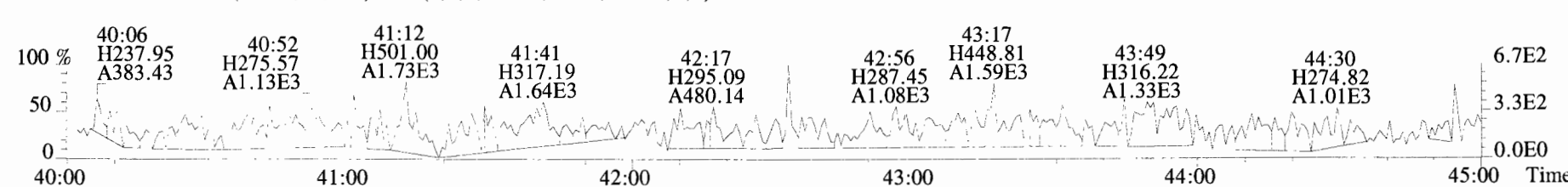
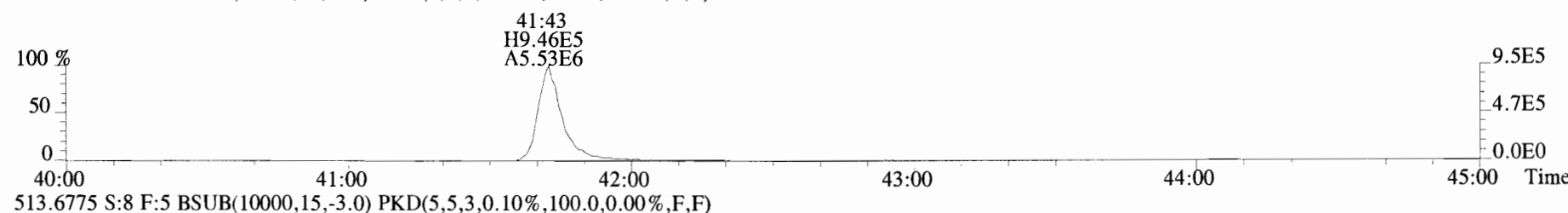
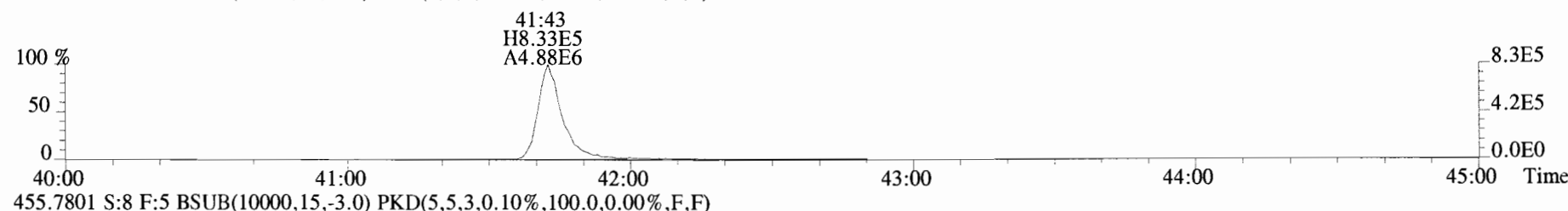
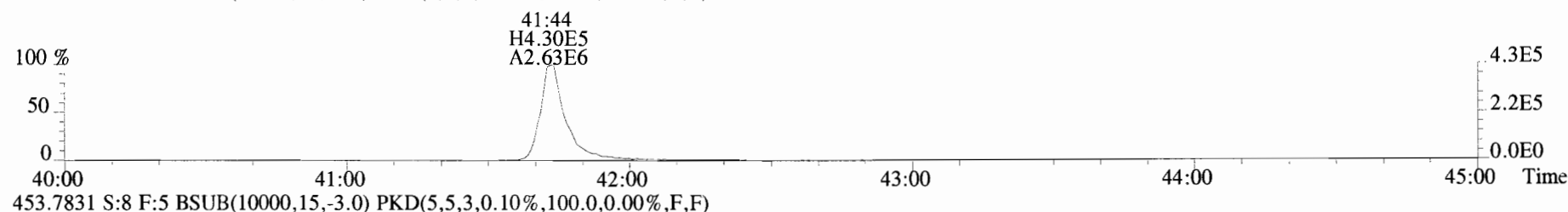
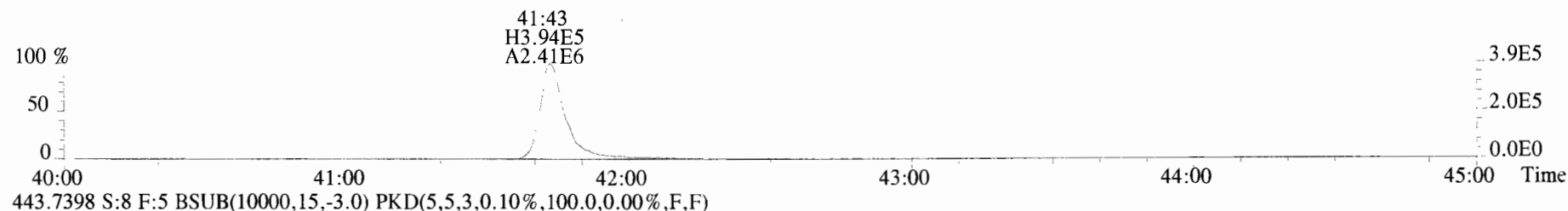
File:191009D1 #1-355 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory_VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD_DB5
383.8639 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:191009D1 #1-356 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory_VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD_DB5
407.7818 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:191009D1 #1-431 Acq: 9-OCT-2019 21:46:34 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista_Analytical_Laboratory_VG7 Text:SS191009D1-1 1613 SSS 19C2207 Exp:OCDD_DB5
441.7428 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



Initial Calibration RRF Summary (ICAL) Vista Analytical Laboratory
Run: Analyte: TCDF Cal: 1613TCDFVG7-5-30-19 Inst. ID. VG-7

Data filename: 190530D1
Samp# 3 Samp# 4 Samp# 5 Samp# 6 Samp# 7 Samp# 8
100 100 100 100 100 100

Name	Mean RRF	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6
13C-1,2,3,4-TCDF	1.0000	0.00 %	1.00	1.00	1.00	1.00	1.00	1.00
13C-2,3,7,8-TCDF	1.0212	4.27 %	1.07	1.04	1.03	1.05	0.98	0.96
2,3,7,8-TCDF	0.9476	9.58 %	1.12	0.93	0.88	0.87	0.97	0.92

DB CT
5/30/19 05/31/19

Filename: 190530D1 S: 3 Acquired: 30-MAY-19 12:05:38
Run: Analyte: TCDF Cal: 1613TCDFVG7-5-30-19Results:
Sample text: ST190530D1-1 1613 CS0 19C2201

Name	Amount	Resp	RA	RT	RF	RRF
13C-1,2,3,4-TCDF	100	1.38e+07	0.80 y	15:49	-	1.00
13C-2,3,7,8-TCDF	100	1.47e+07	0.81 y	18:05	-	1.07
2,3,7,8-TCDF	0.250	4.11e+04	0.87 y	18:06	-	1.12

DB
5/30/19

Filename: 190530D1 S: 4 Acquired: 30-MAY-19 12:37:29
Run: Analyte: TCDF Cal: 1613TCDFVG7-5-30-19Results:
Sample text: ST190530D1-2 1613 CS1 19C2202

Name	Amount	Resp	RA	RT	RF	RRF
13C-1,2,3,4-TCDF	100	1.24e+07	0.82 y	15:49	-	1.00
13C-2,3,7,8-TCDF	100	1.30e+07	0.78 y	18:05	-	1.04
2,3,7,8-TCDF	0.500	6.06e+04	0.67 y	18:05	-	0.93

DB
5/30/19

Filename: 190530D1 S: 5 Acquired: 30-MAY-19 13:09:20
Run: Analyte: TCDF Cal: 1613TCDFVG7-5-30-19Results:
Sample text: ST190530D1-3 1613 CS2 19C2203

Name	Amount	Resp	RA	RT	RF	RRF
13C-1,2,3,4-TCDF	100	1.21e+07	0.82 y	15:48	-	1.00
13C-2,3,7,8-TCDF	100	1.24e+07	0.80 y	18:04	-	1.03
2,3,7,8-TCDF	2.00	2.18e+05	0.74 y	18:05	-	0.88

DB
5/30/19

Filename: 190530D1 S: 6 Acquired: 30-MAY-19 13:41:11
Run: Analyte: TCDF Cal: 1613TCDFVG7-5-30-19Results:
Sample text: ST190530D1-4 1613 CS3 19C2204

Name	Amount	Resp	RA	RT	RF	RRF
13C-1,2,3,4-TCDF	100	1.28e+07	0.81 y	15:49	-	1.00
13C-2,3,7,8-TCDF	100	1.34e+07	0.80 y	18:05	-	1.05
2,3,7,8-TCDF	10.0	1.17e+06	0.73 y	18:06	-	0.87

DB
5/30/19

Filename: 190530D1 S: 7 Acquired: 30-MAY-19 14:13:01
Run: Analyte: TCDF Cal: 1613TCDFVG7-5-30-19Results:
Sample text: ST190530D1-5 1613 CS4 19C2205

Name	Amount	Resp	RA	RT	RF	RRF
13C-1,2,3,4-TCDF	100	1.30e+07	0.81 y	15:49	-	1.00
13C-2,3,7,8-TCDF	100	1.28e+07	0.80 y	18:05	-	0.98
2,3,7,8-TCDF	40.0	4.95e+06	0.77 y	18:06	-	0.97

DB
5/30/19

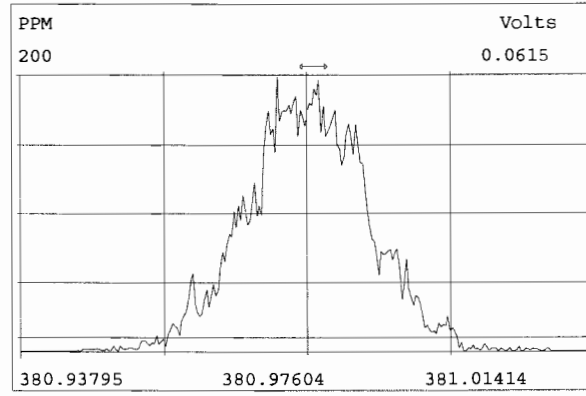
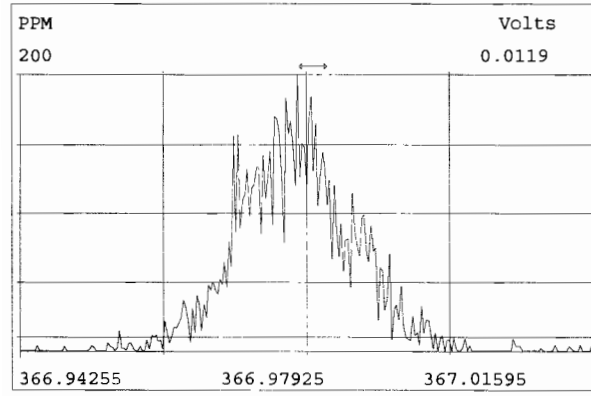
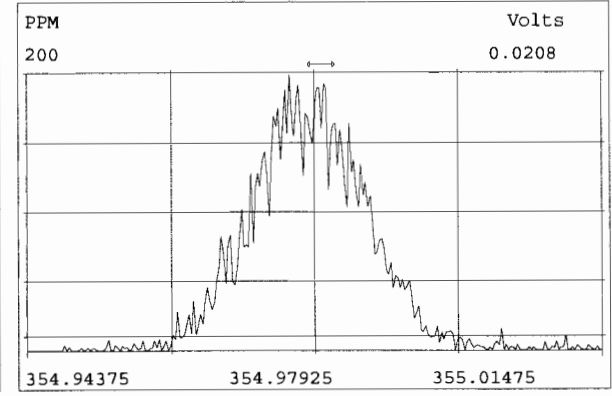
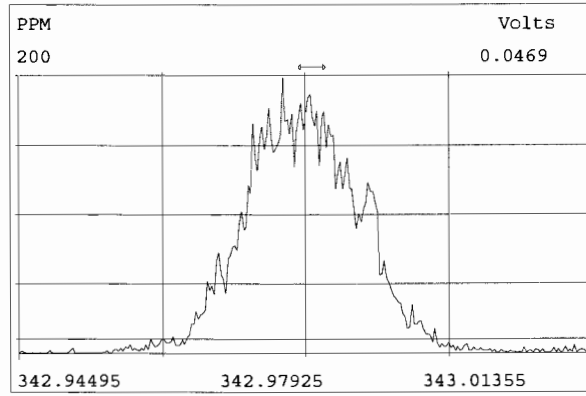
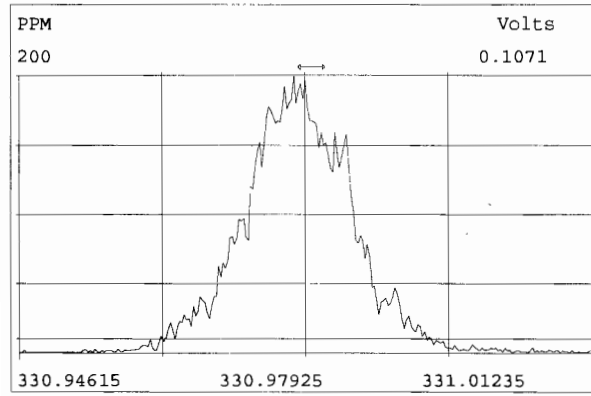
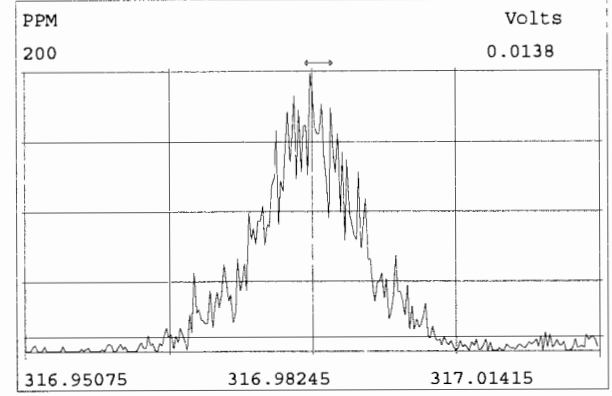
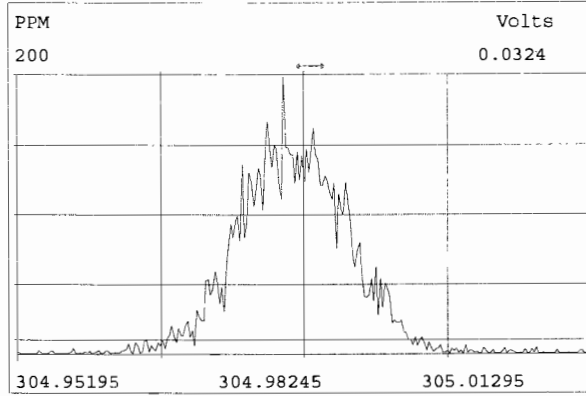
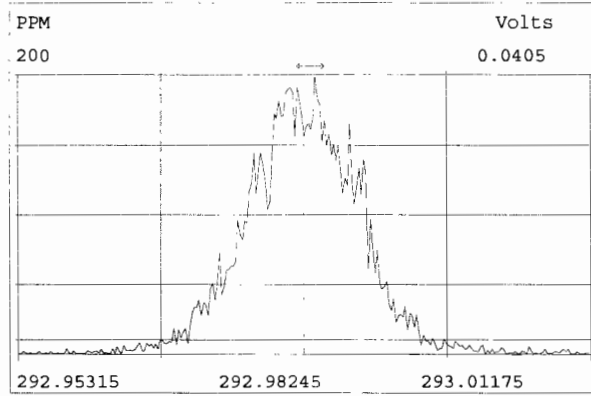
Filename: 190530D1 S: 8 Acquired: 30-MAY-19 14:44:52
Run: Analyte: TCDF Cal: 1613TCDFVG7-5-30-19Results:
Sample text: ST190530D1-6 1613 CS5 19C2206

Name	Amount	Resp	RA	RT	RF	RRF
13C-1,2,3,4-TCDF	100	1.29e+07	0.80 y	15:48	-	1.00
13C-2,3,7,8-TCDF	100	1.24e+07	0.80 y	18:05	-	0.96
2,3,7,8-TCDF	300	3.42e+07	0.74 y	18:06	-	0.92

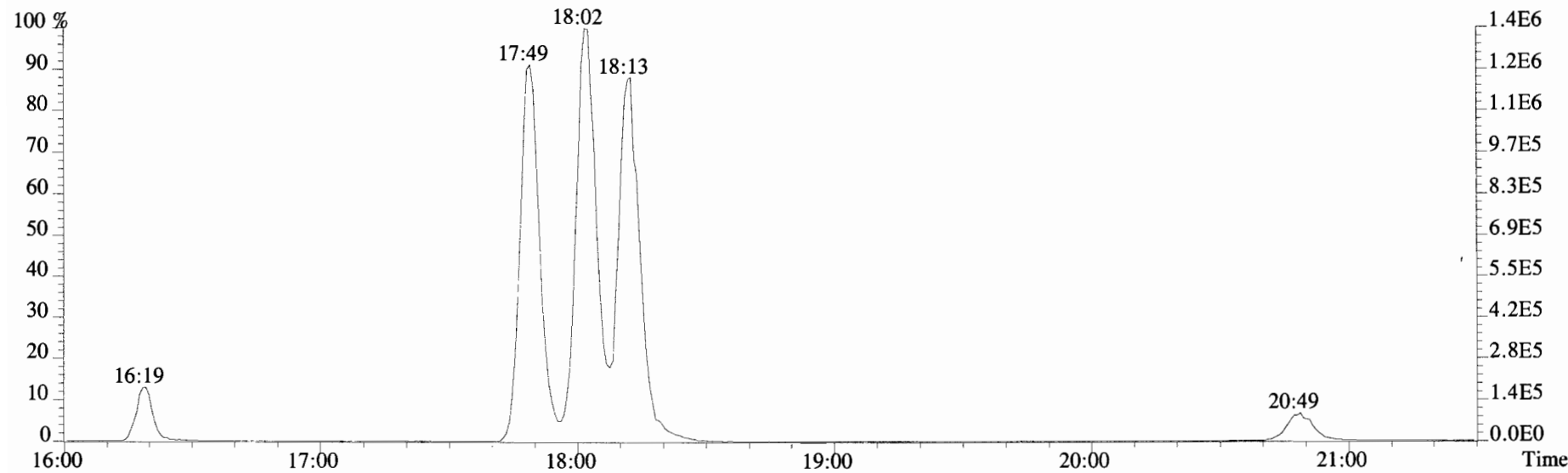
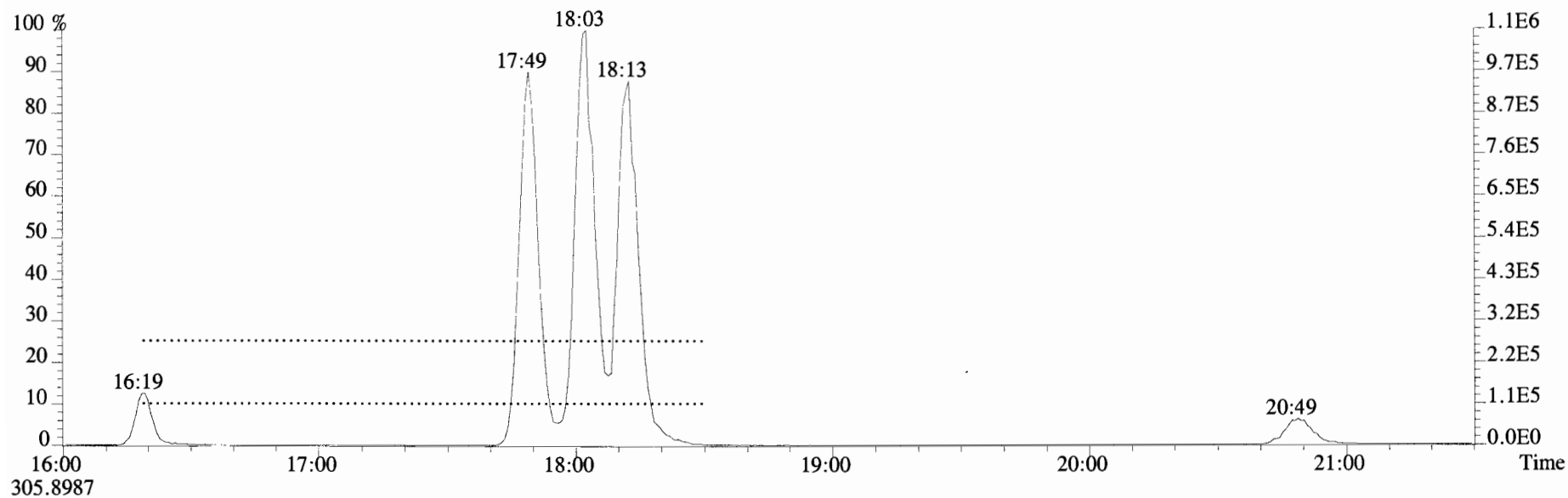
DB
5/30/19

Vista Analytical Laboratory - Injection Log Run file: 190530D1 Instrument ID: VG-7 GC Column ID: DB-225

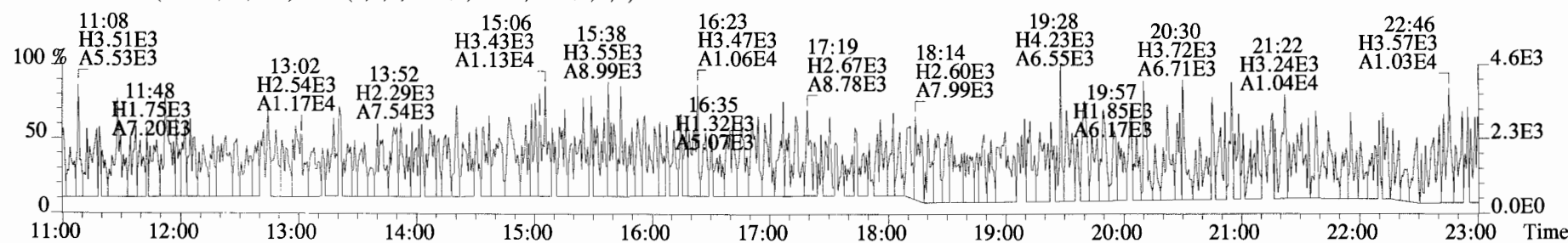
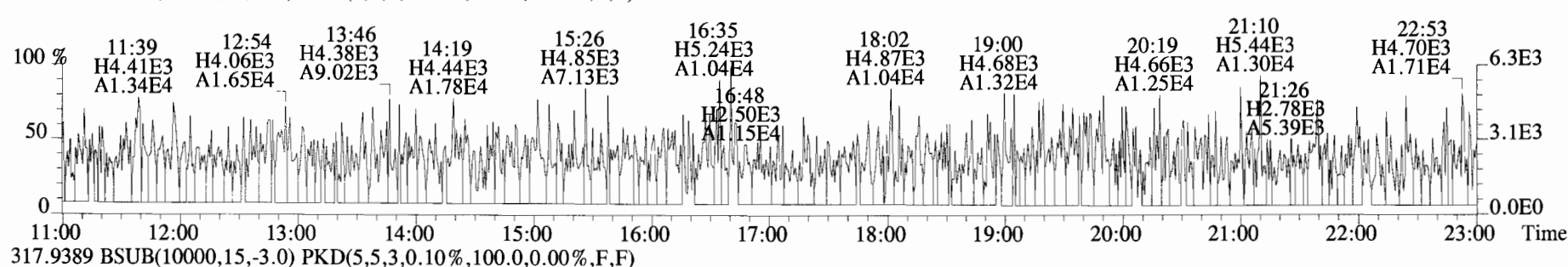
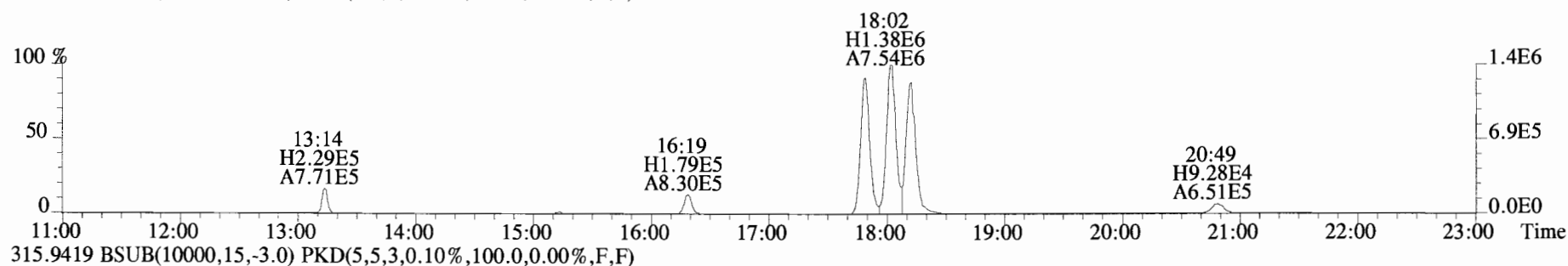
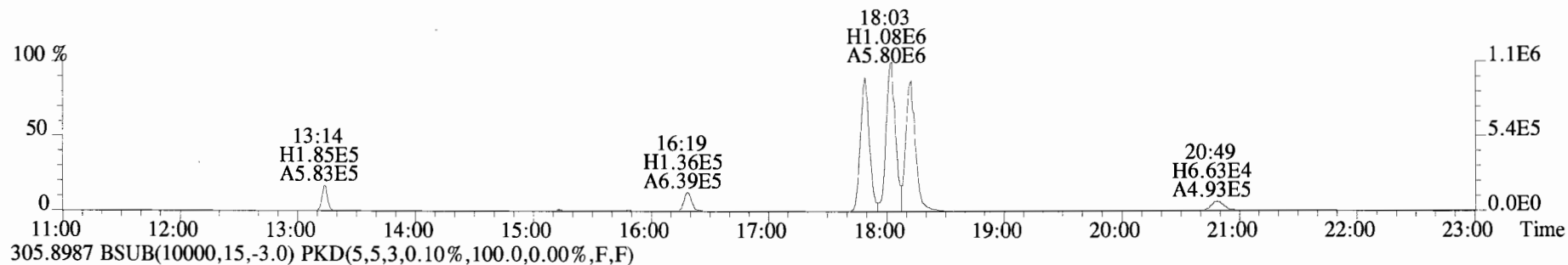
Data file	S#	Sample ID	Analyst	Acq date	Acq time	CCal	ECal
190530D1	1	CP190530D1-1	DB	30-MAY-19	11:02:08	ST190530D1-4	NA
190530D1	2	SOLVENT BLANK	DB	30-MAY-19	11:33:52	ST190530D1-4	NA
190530D1	3	ST190530D1-1	DB	30-MAY-19	12:05:38	ST190530D1-4	NA
190530D1	4	ST190530D1-2	DB	30-MAY-19	12:37:29	ST190530D1-4	NA
190530D1	5	ST190530D1-3	DB	30-MAY-19	13:09:20	ST190530D1-4	NA
190530D1	6	ST190530D1-4	DB	30-MAY-19	13:41:11	ST190530D1-4	NA
190530D1	7	ST190530D1-5	DB	30-MAY-19	14:13:01	ST190530D1-4	NA
190530D1	8	ST190530D1-6	DB	30-MAY-19	14:44:52	ST190530D1-4	NA
190530D1	9	SOLVENT BLANK	DB	30-MAY-19	15:16:42	ST190530D1-4	NA
190530D1	10	SS190528D1-1	DB	30-MAY-19	15:48:32	ST190530D1-4	NA
190530D1	11	SOLVENT BLANK	DB	30-MAY-19	16:20:23	ST190530D1-4	NA
190530D1	12	1901028-05RE1	DB	30-MAY-19	16:52:12	ST190530D1-4	NA
190530D1	13	1901028-07RE1	DB	30-MAY-19	17:24:02	ST190530D1-4	NA
190530D1	14	1901028-08RE1	DB	30-MAY-19	17:55:52	ST190530D1-4	NA
190530D1	15	1901028-09RE1	DB	30-MAY-19	18:27:41	ST190530D1-4	NA



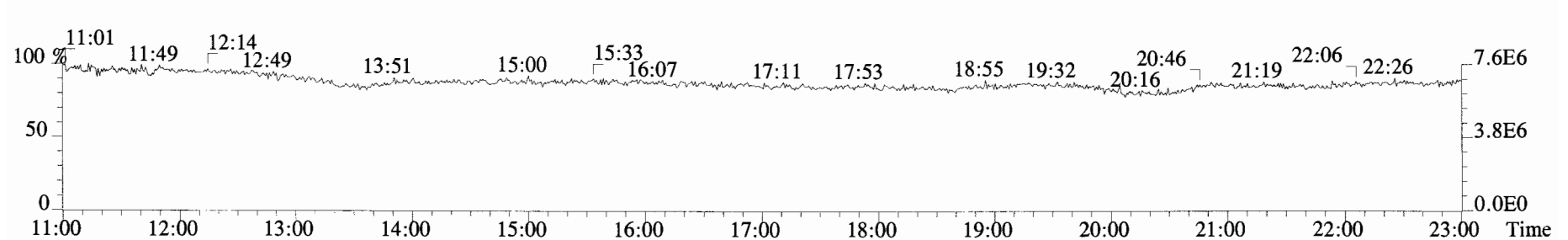
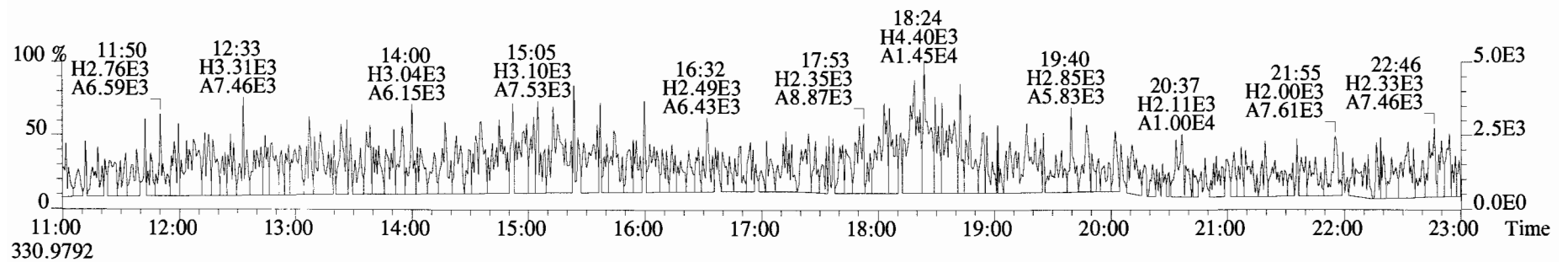
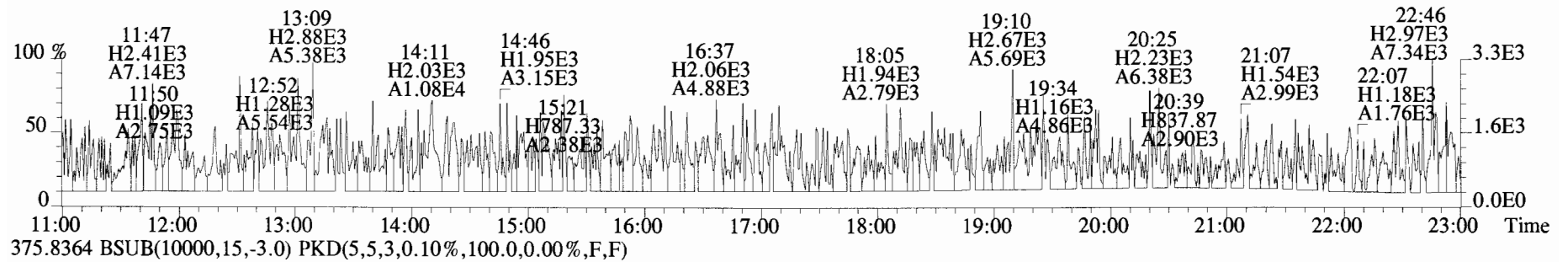
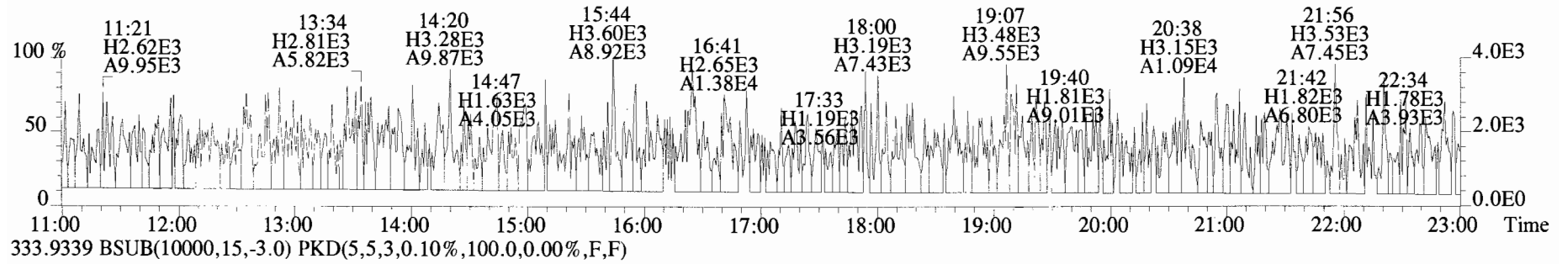
File:190530D1 #1-1559 Acq:30-MAY-2019 11:02:08 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista_Analytical_Laboratory_VG7 Text:CP190530D1-1 DB225 CPSM Exp:TCDF_DB225
303.9016



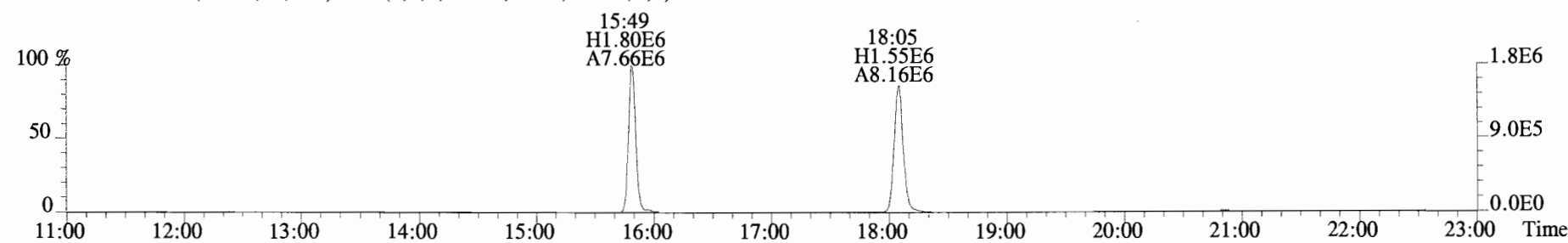
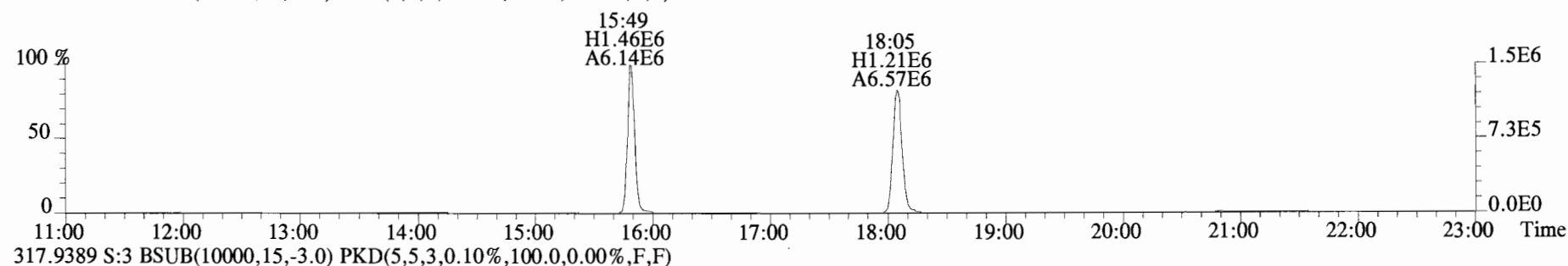
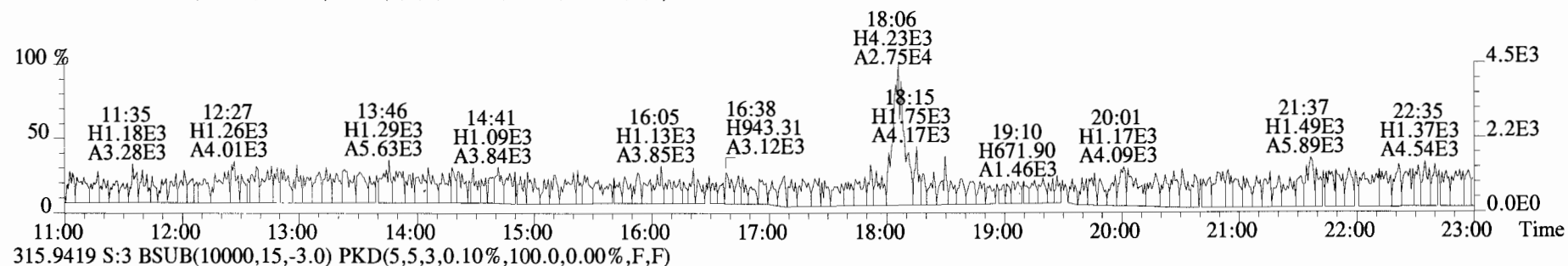
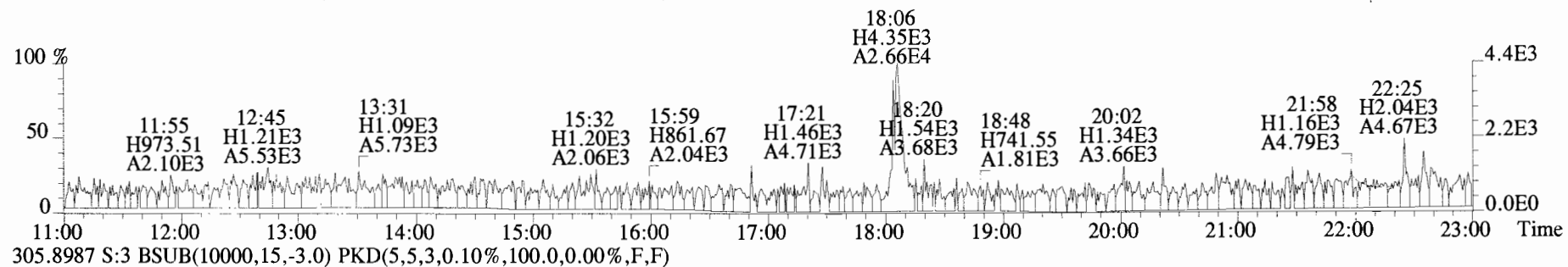
File:190530D1 #1-1682 Acq:30-MAY-2019 11:02:08 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 File Text:Vista Analytical Laboratory VG7 Text:CP190530D1-1 DB225 CPSM Exp:TCDF_DB225
303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



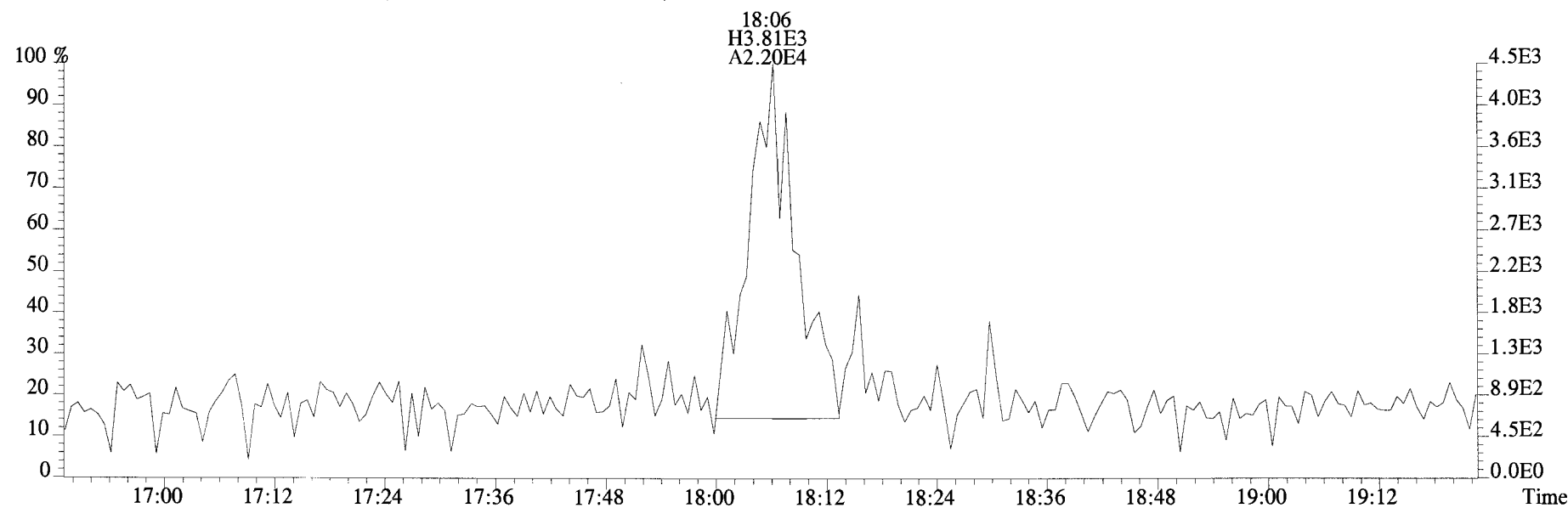
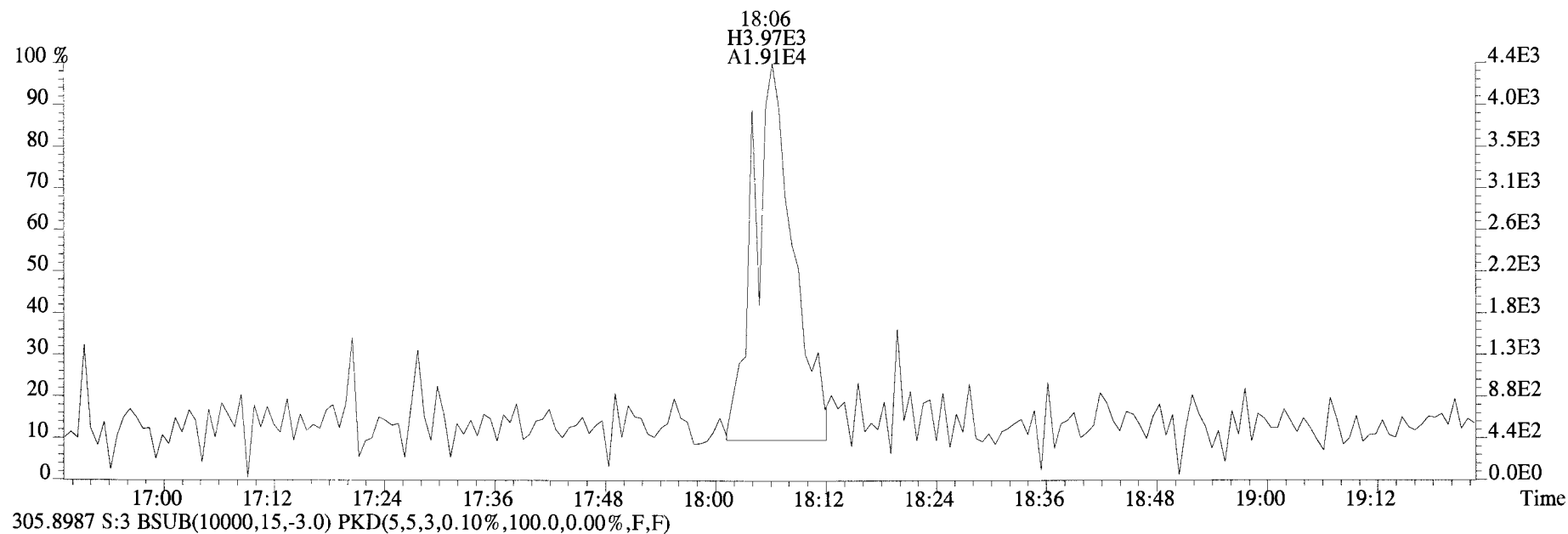
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Sample#1 File Text:Vista Analytical Laboratory VG7 Text:CP190530D1-1 DB225 CPSM Exp:TCDF_DB225
331.9368 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



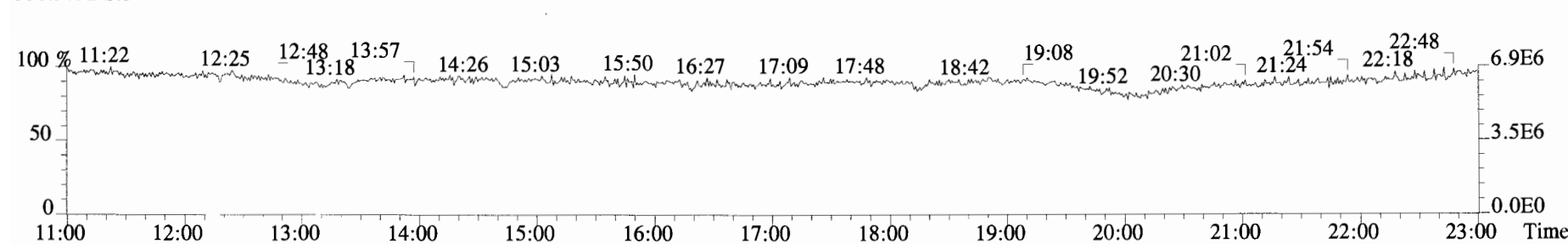
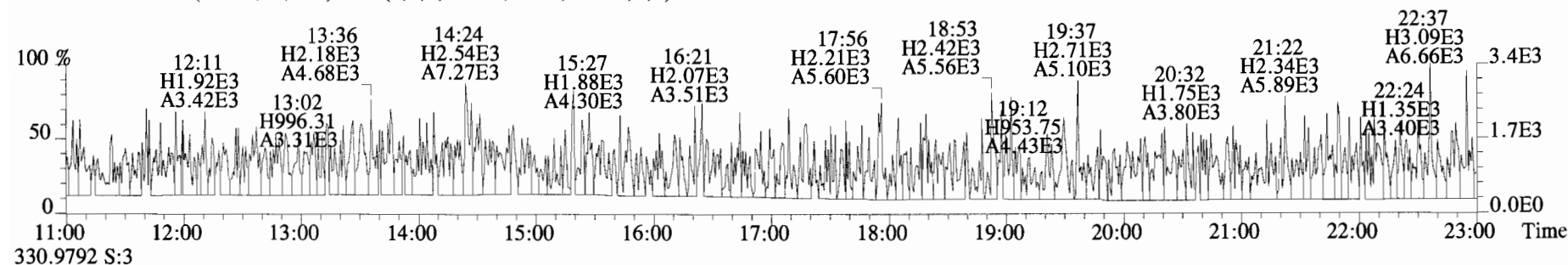
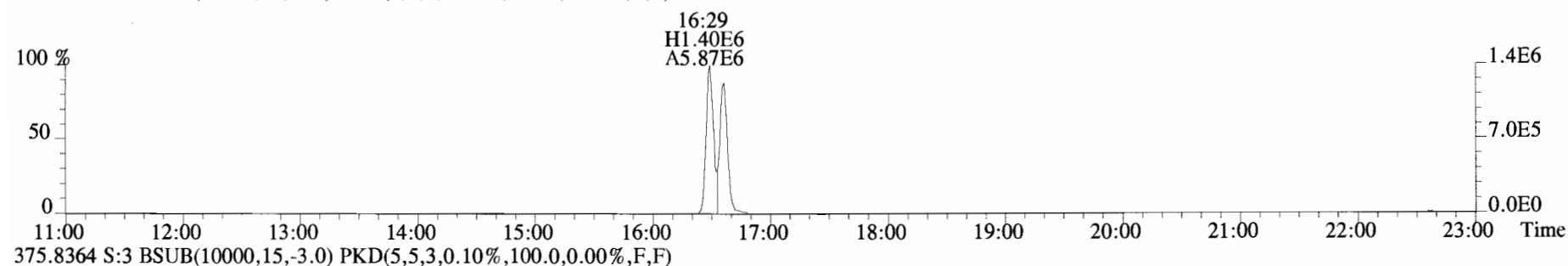
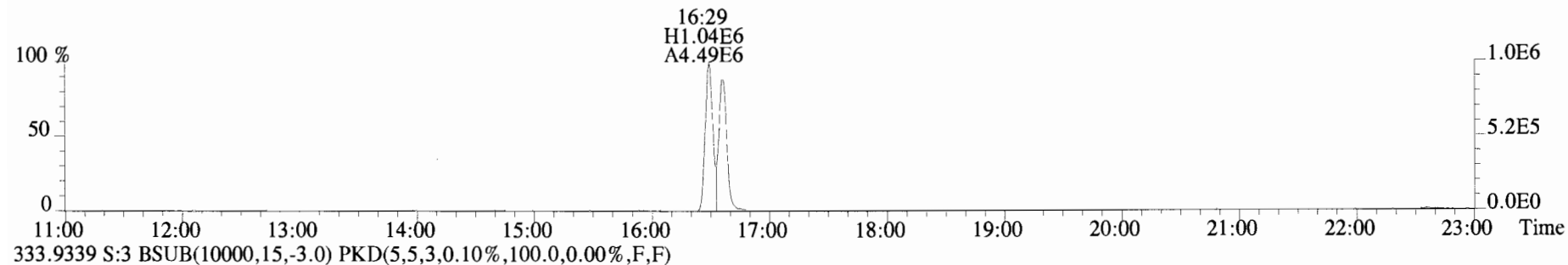
File:190530D1 #1-1682 Acq:30-MAY-2019 12:05:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG7 Text:ST190530D1-1 1613 CS0 19C2201 Exp:TCDF_DB225
303.9016 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



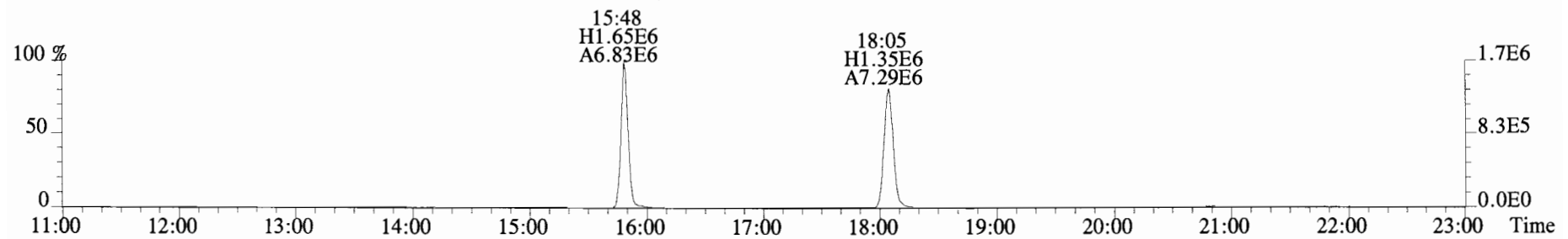
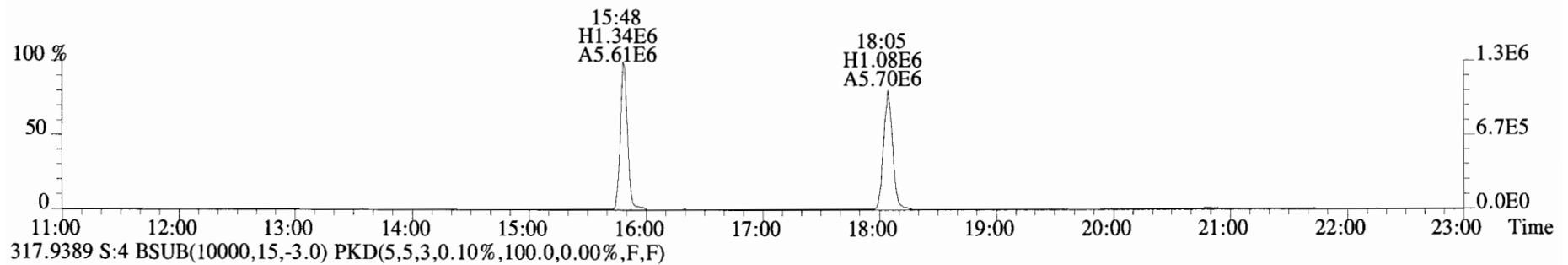
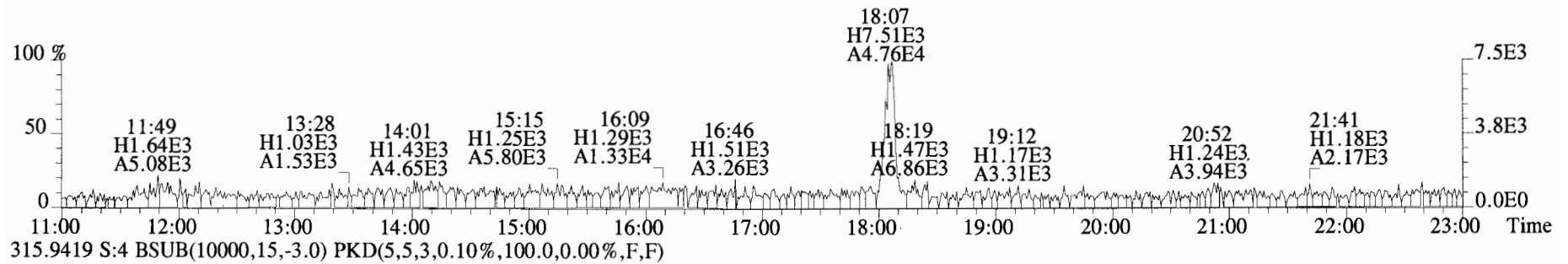
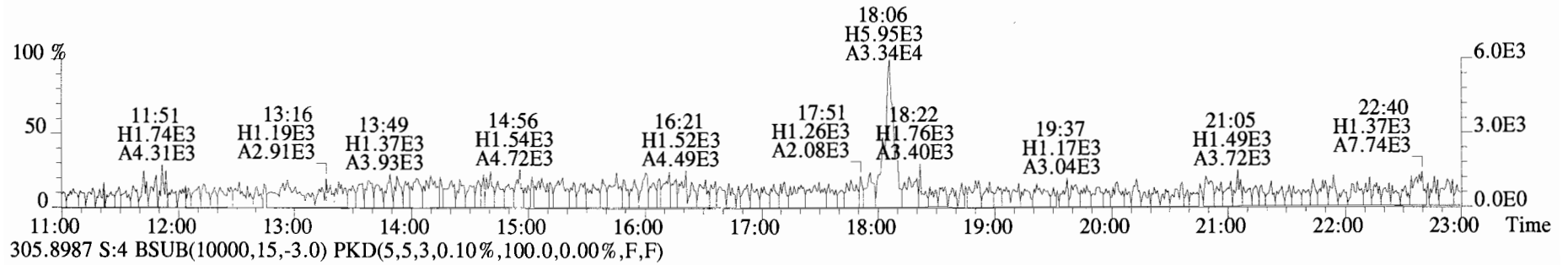
File:190530D1 #1-1682 Acq:30-MAY-2019 12:05:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample#3 File Text:Vista Analytical Laboratory VG7 Text:ST190530D1-1 1613 CS0 19C2201 Exp:TCDF_DB225
303.9016 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



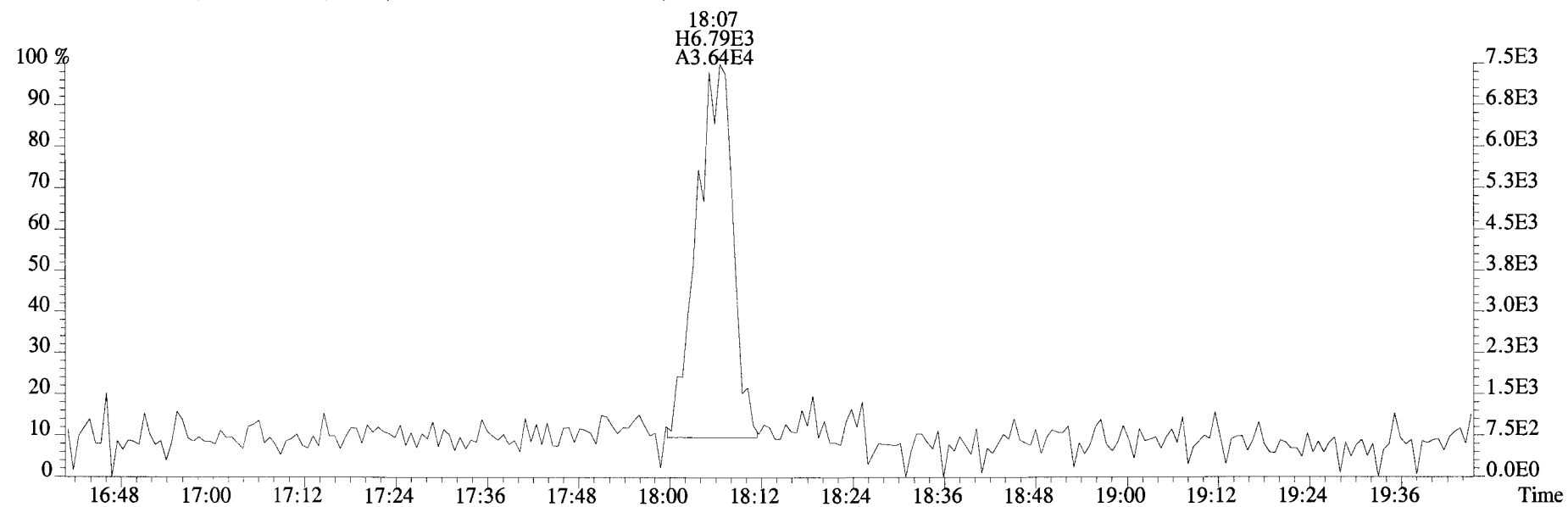
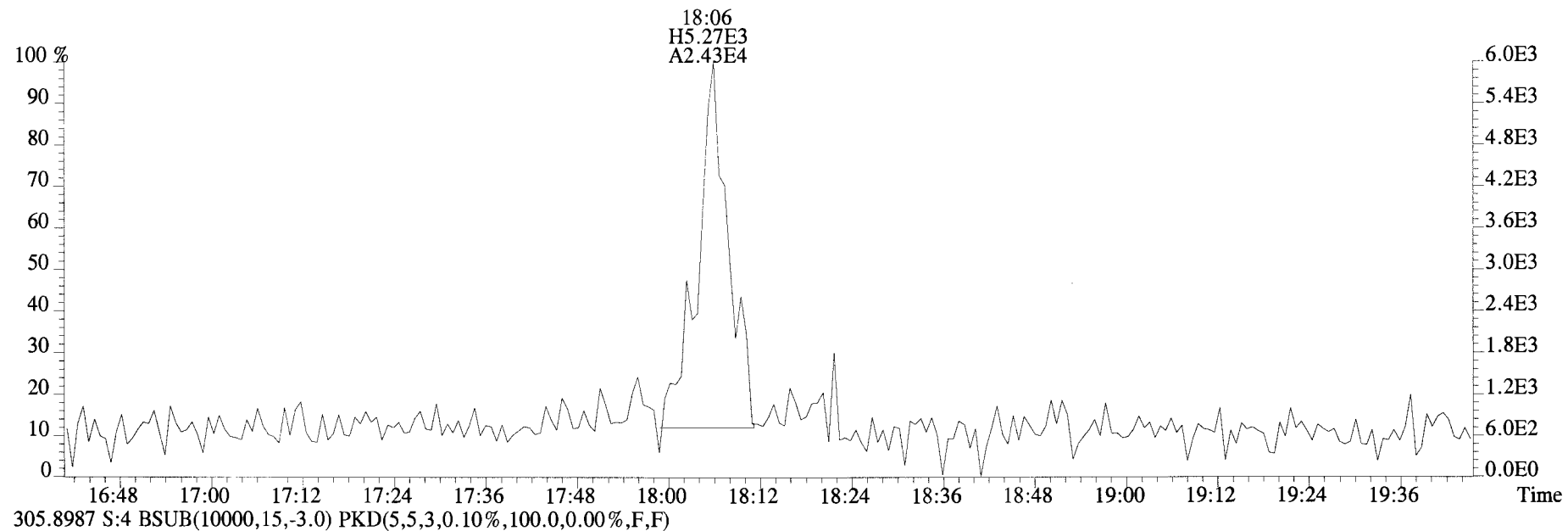
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Sample#3 File Text:Vista Analytical Laboratory_VG7 Text:ST190530D1-1 1613 CS0 19C2201 Exp:TCDF_DB225
331.9368 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



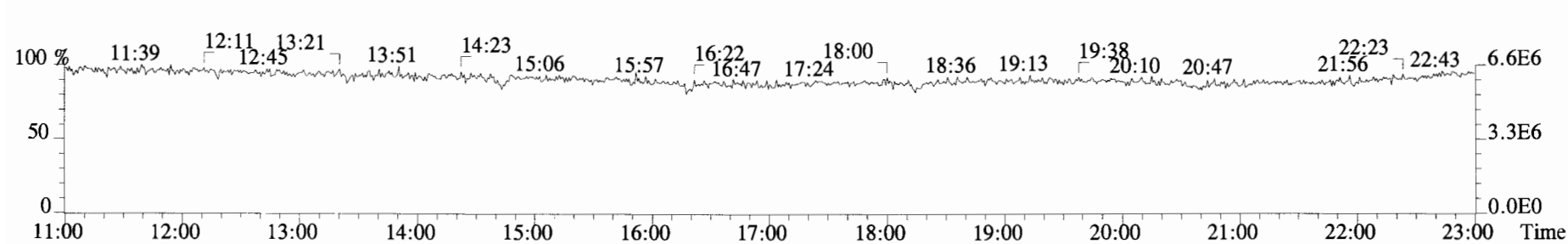
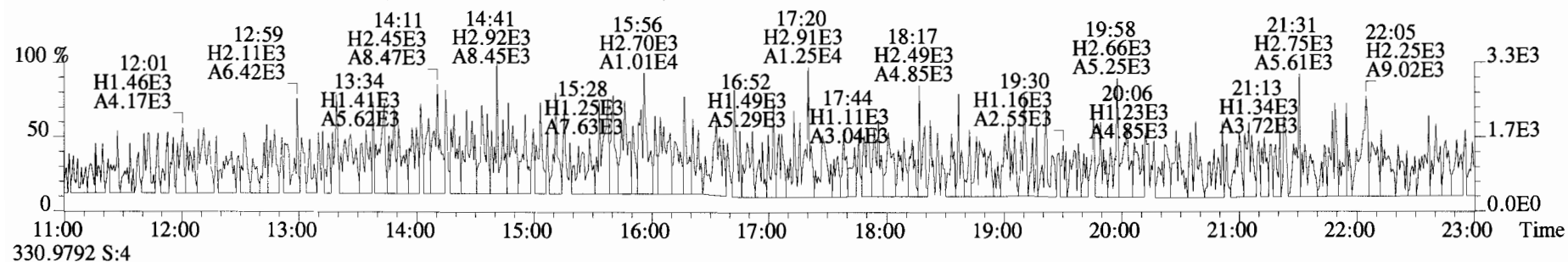
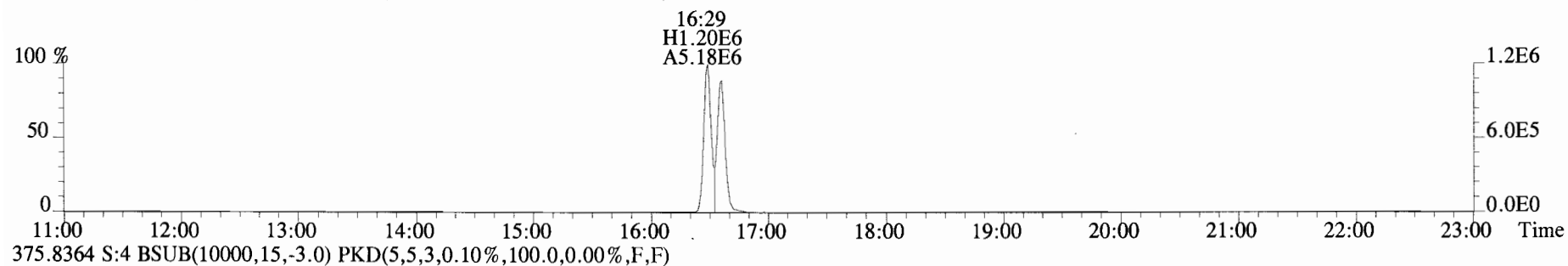
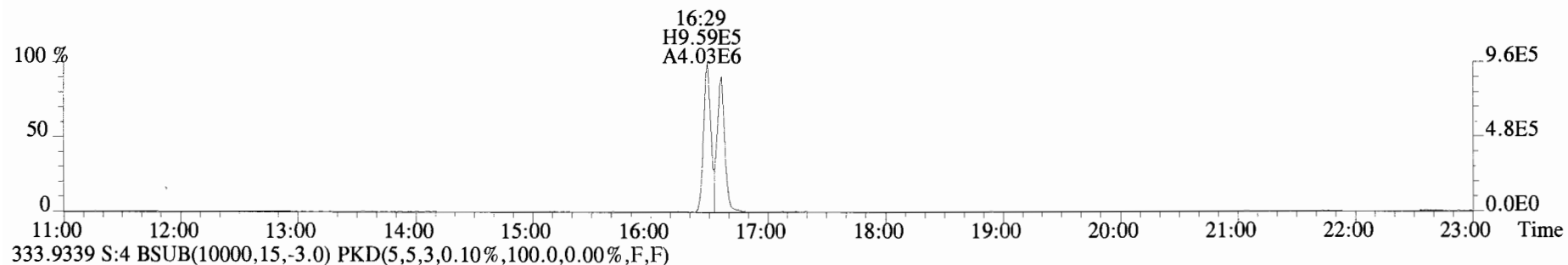
File:190530D1 #1-1683 Acq:30-MAY-2019 12:37:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG7 Text:ST190530D1-2 1613 CS1 19C2202 Exp:TCDF_DB225
303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



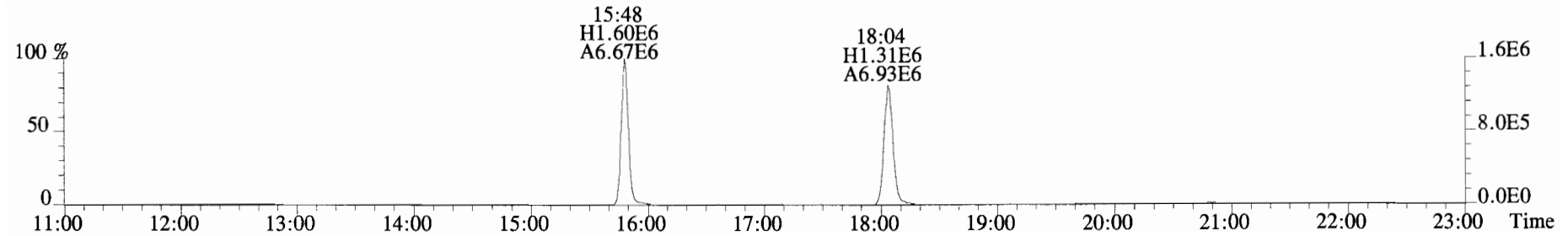
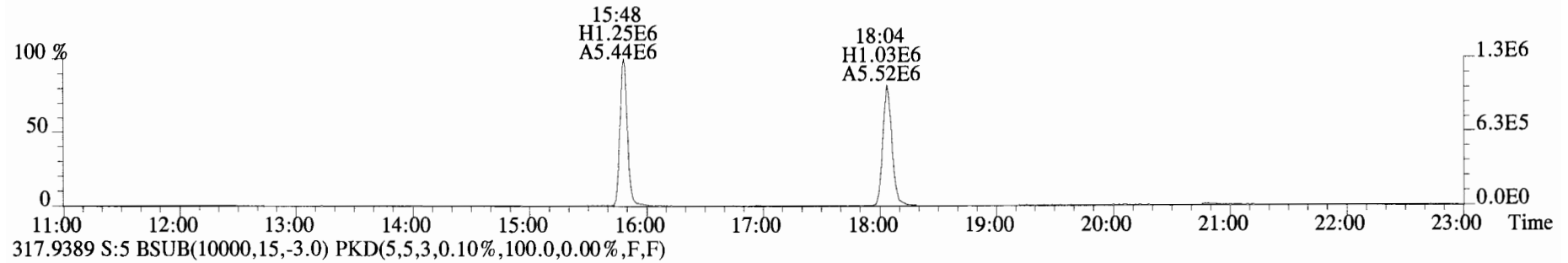
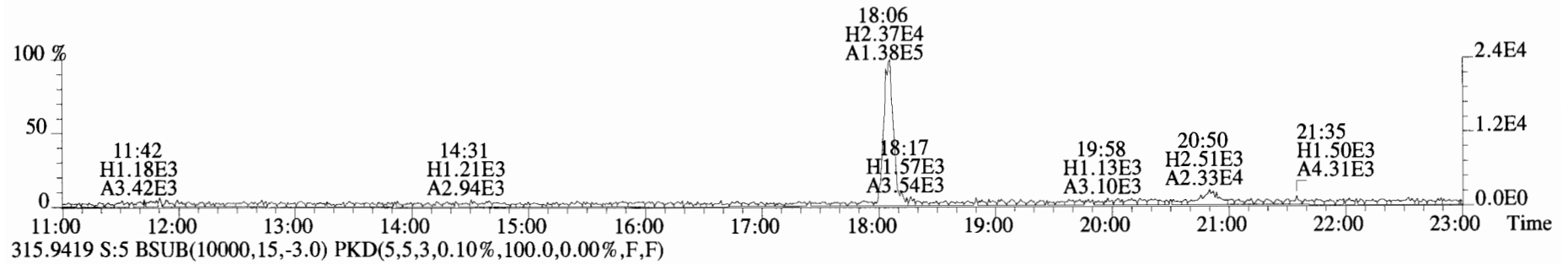
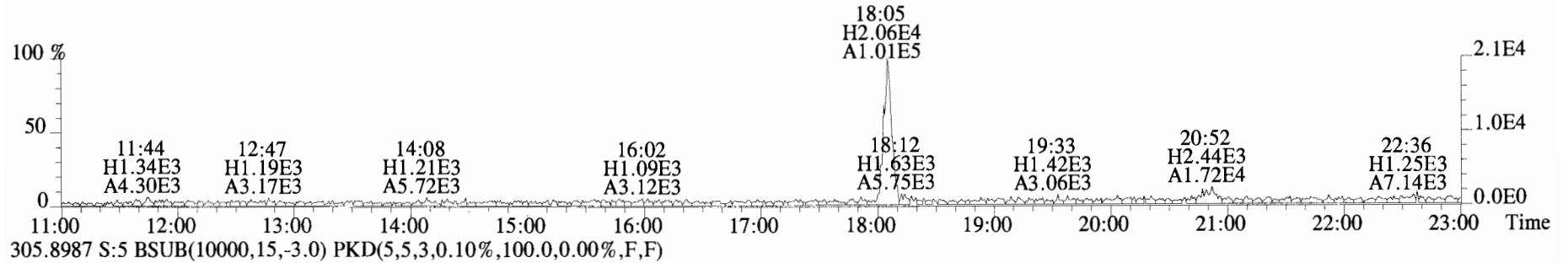
File:190530D1 #1-1683 Acq:30-MAY-2019 12:37:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory VG7 Text:ST190530D1-2 1613 CS1 19C2202 Exp:TCDF_DB225
303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



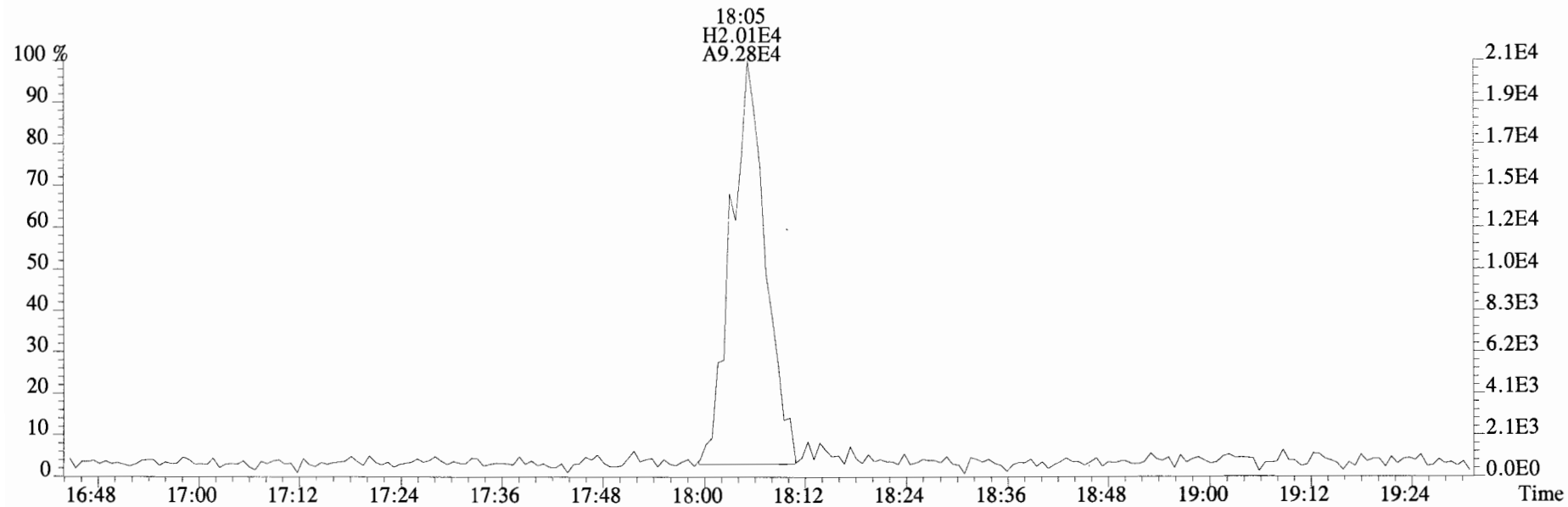
File:190530D1 #1-1683 Acq:30-MAY-2019 12:37:29 GC EI+ Voltage SIR Autospec-UltimaE
Sample#4 File Text:Vista Analytical Laboratory_VG7 Text:ST190530D1-2 1613 CS1 19C2202 Exp:TCDF_DB225
331.9368 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



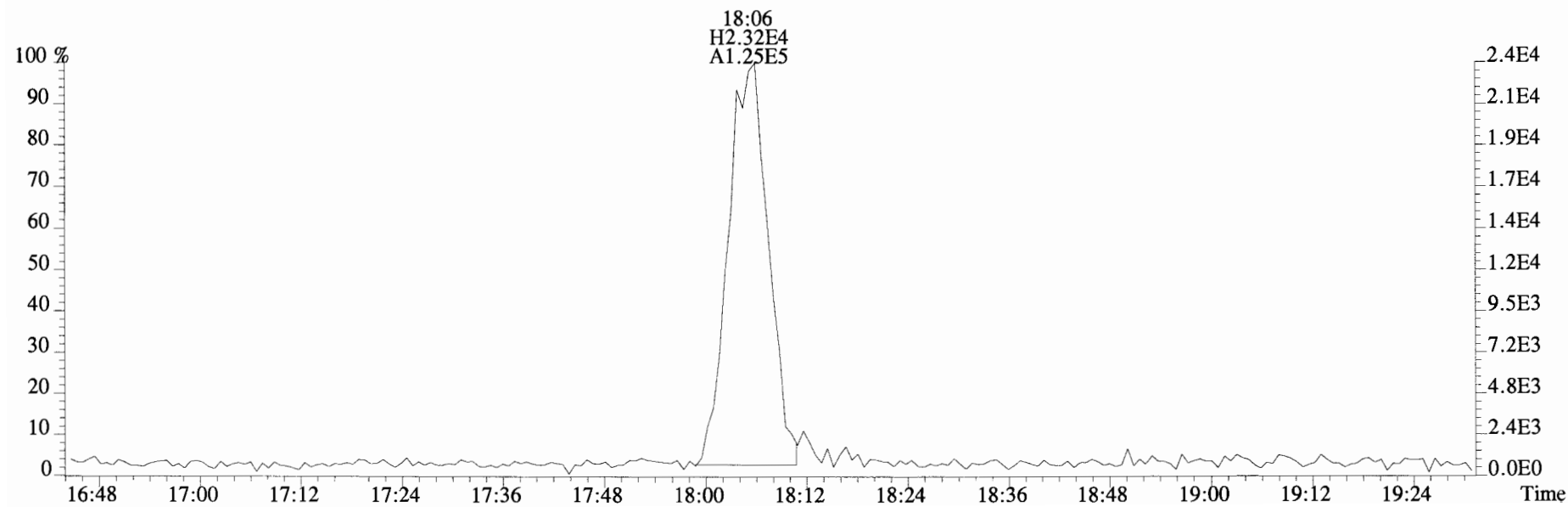
File:190530D1 #1-1683 Acq:30-MAY-2019 13:09:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG7 Text:ST190530D1-3 1613 CS2 19C2203 Exp:TCDF_DB225
303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



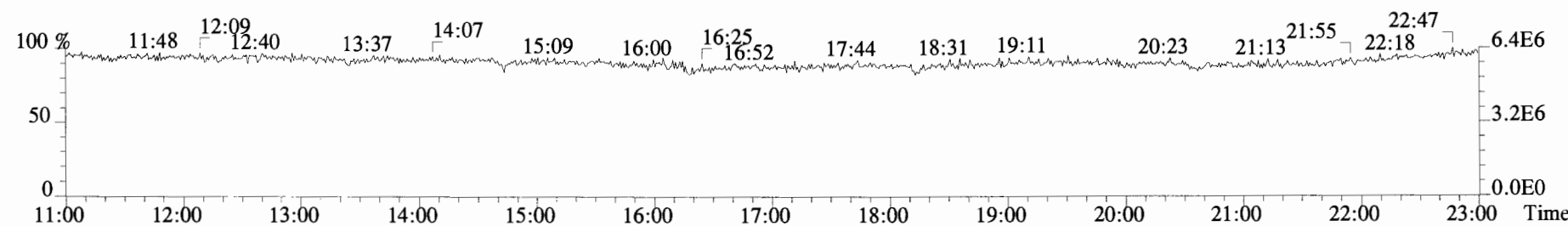
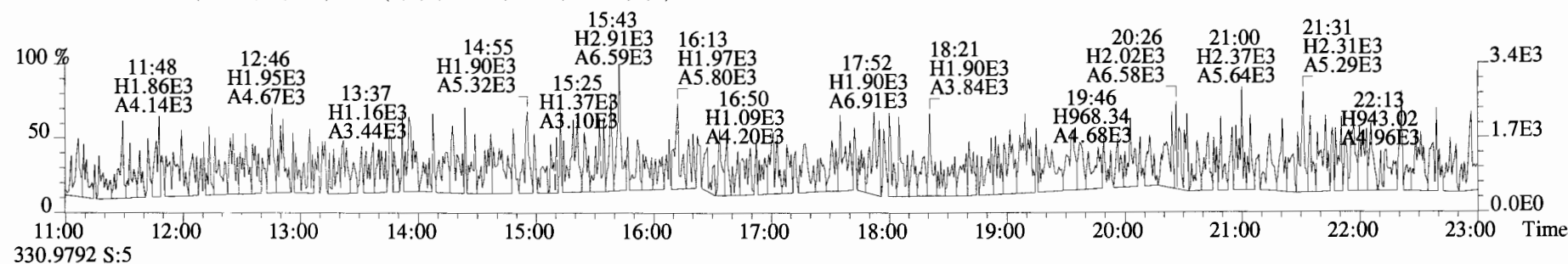
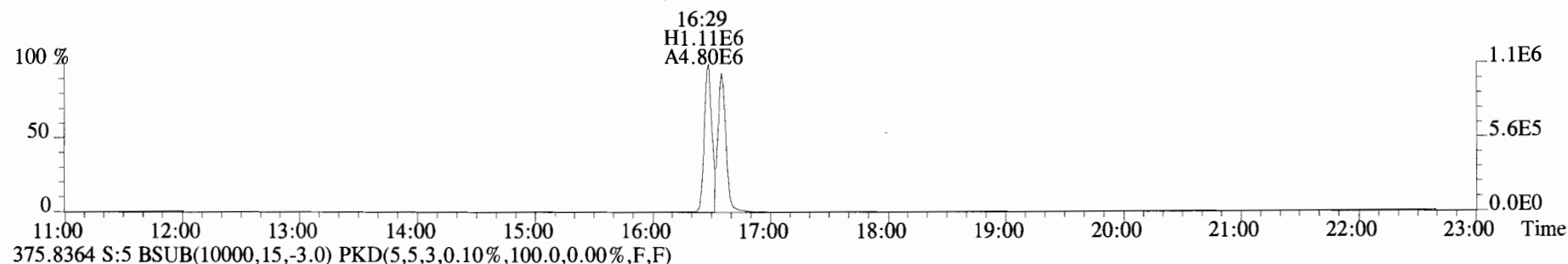
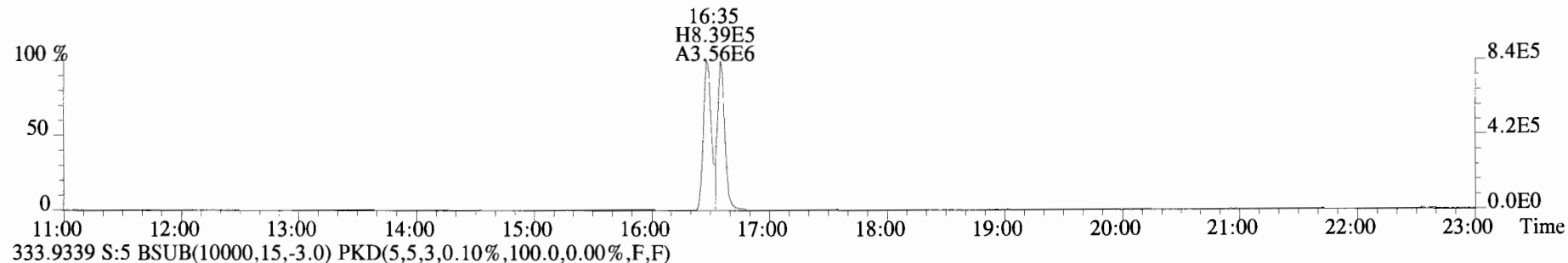
File:190530D1 #1-1683 Acq:30-MAY-2019 13:09:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG7 Text:ST190530D1-3 1613 CS2 19C2203 Exp:TCDF_DB225
303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



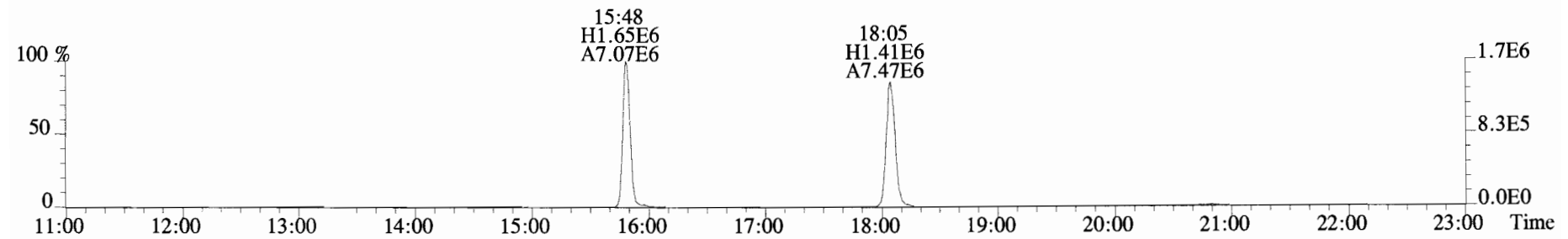
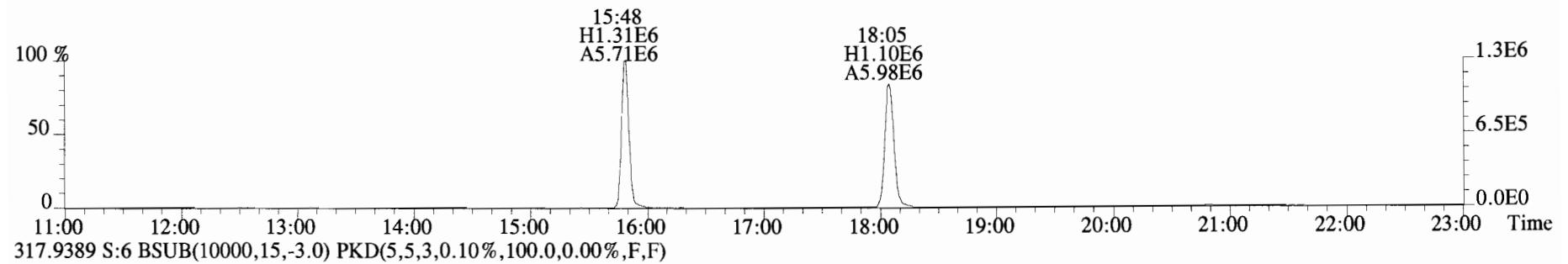
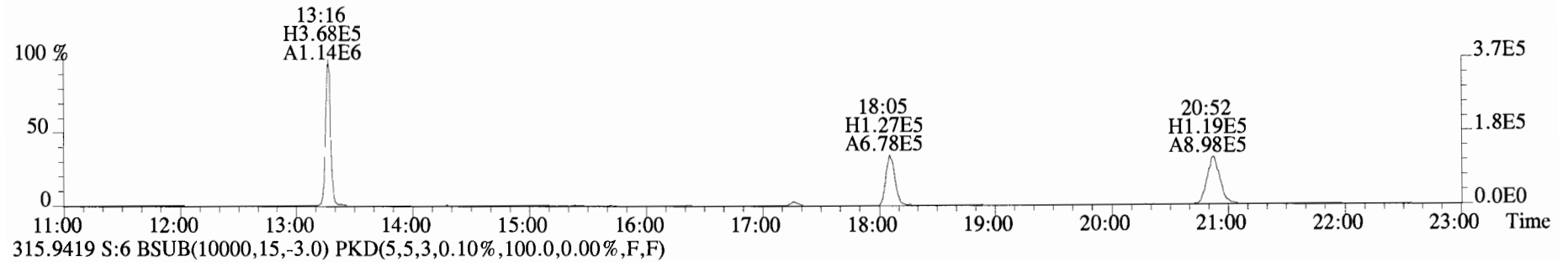
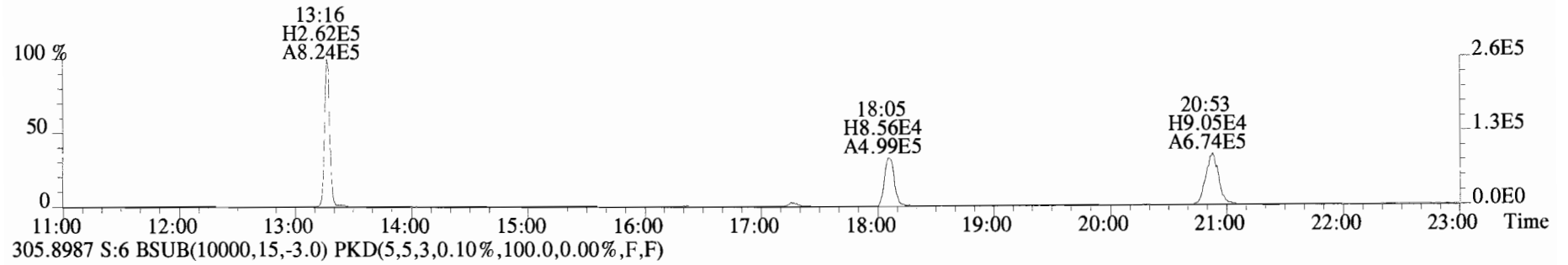
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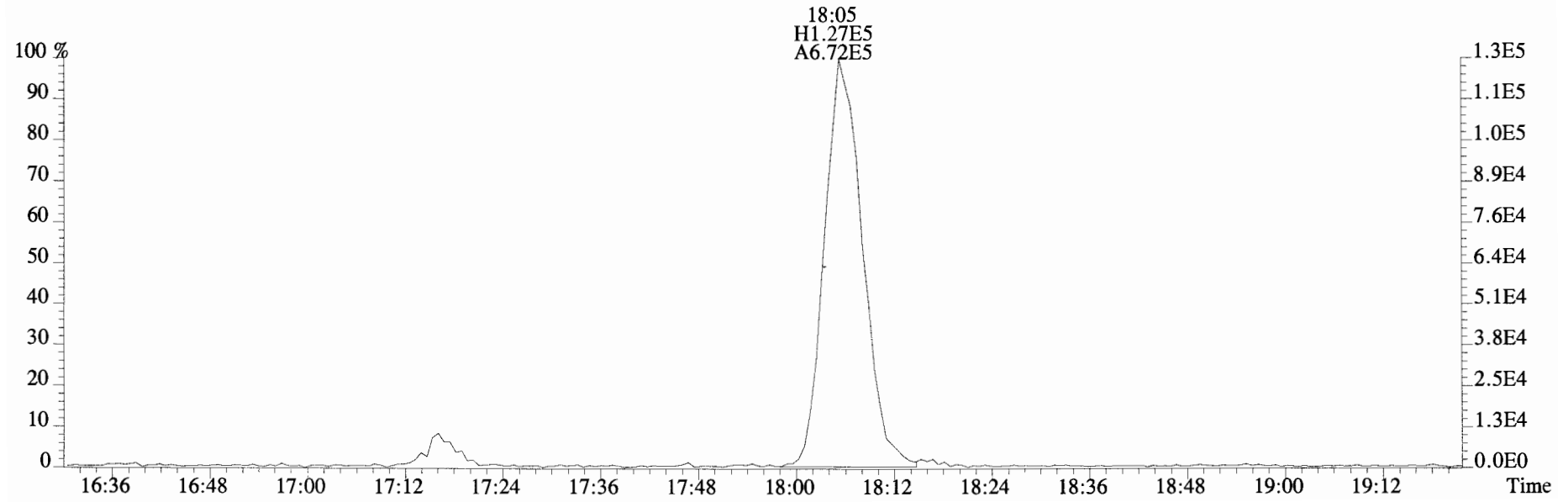
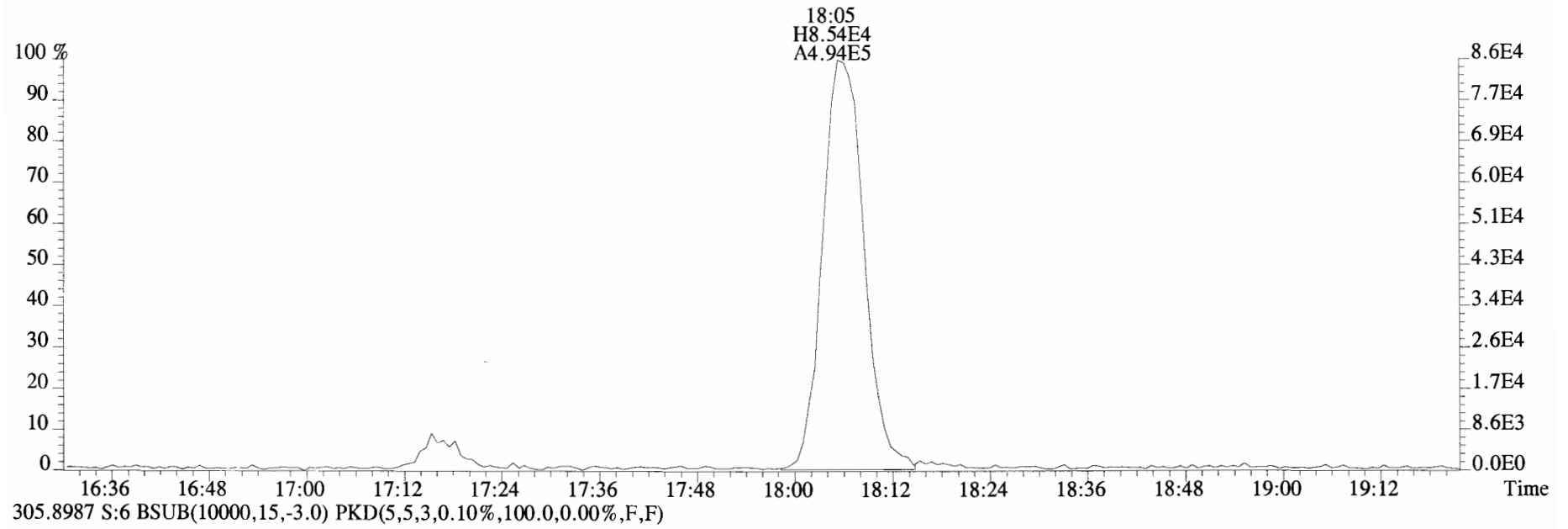
File:190530D1 #1-1683 Acq:30-MAY-2019 13:09:20 GC EI+ Voltage SIR Autospec-UltimaE
Sample#5 File Text:Vista Analytical Laboratory VG7 Text:ST190530D1-3 1613 CS2 19C2203 Exp:TCDF_DB225
331.9368 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



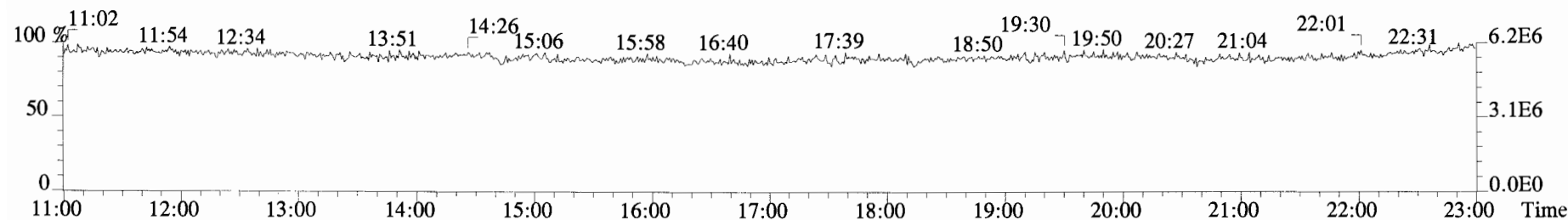
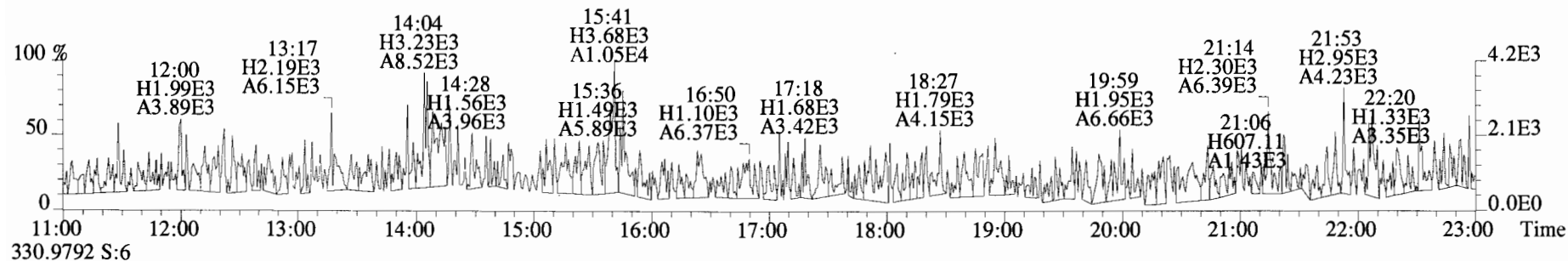
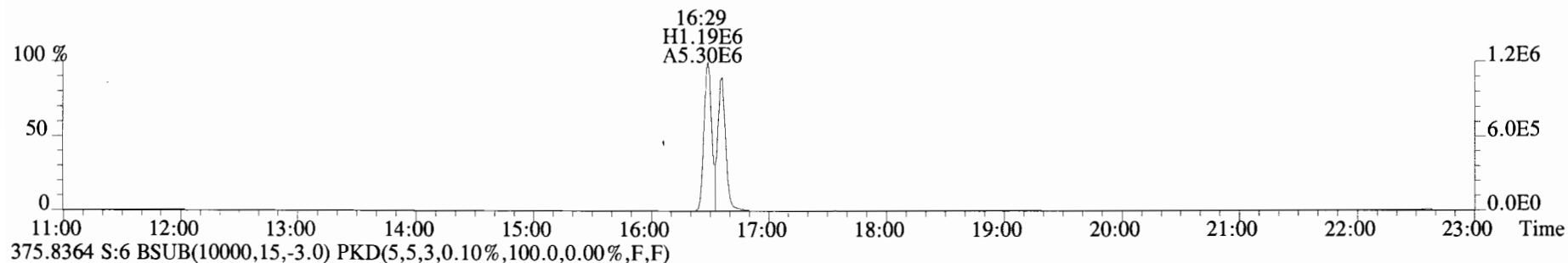
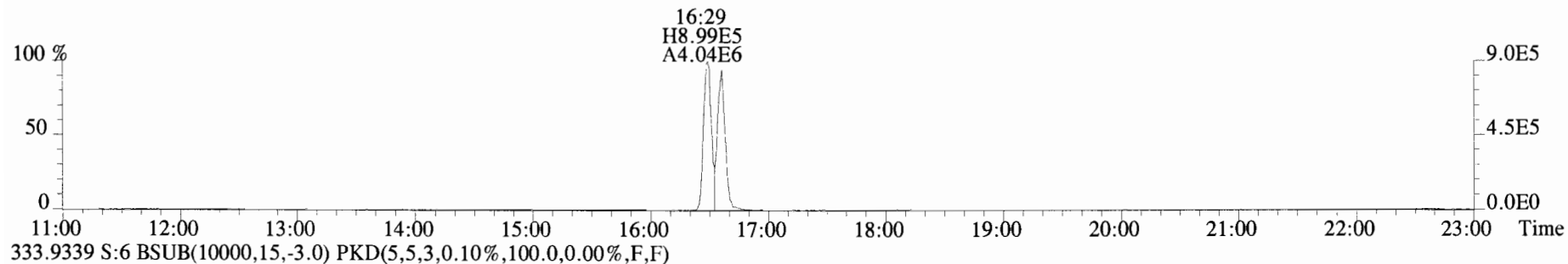
File:190530D1 #1-1682 Acq:30-MAY-2019 13:41:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG7 Text:ST190530D1-4 1613 CS3 19C2204 Exp:TCDF_DB225
303.9016 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



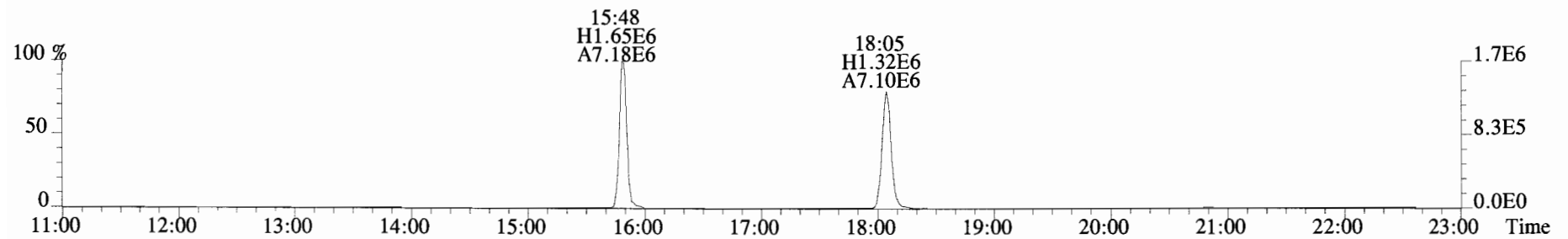
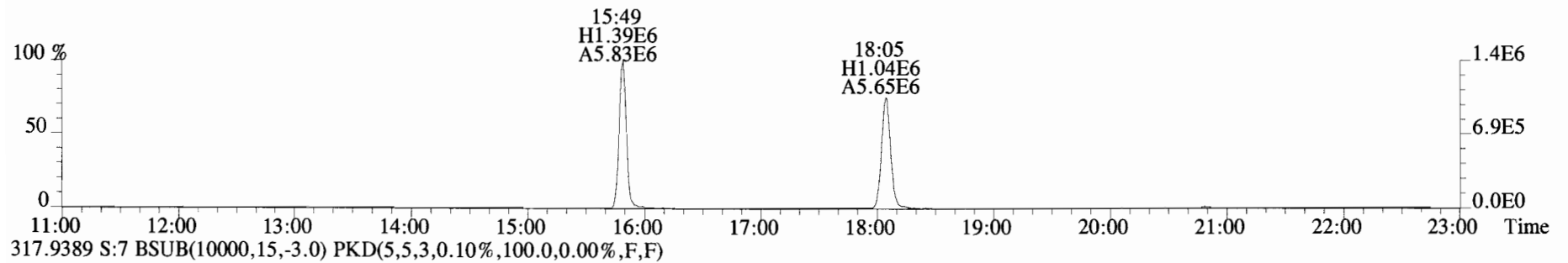
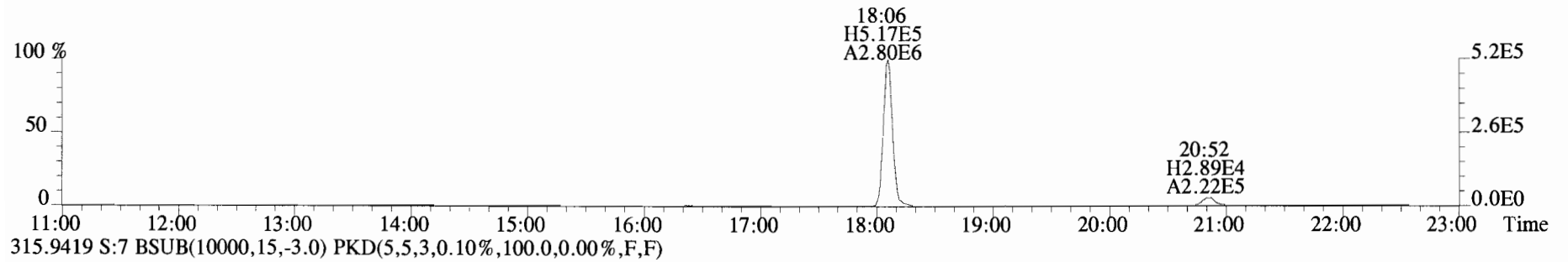
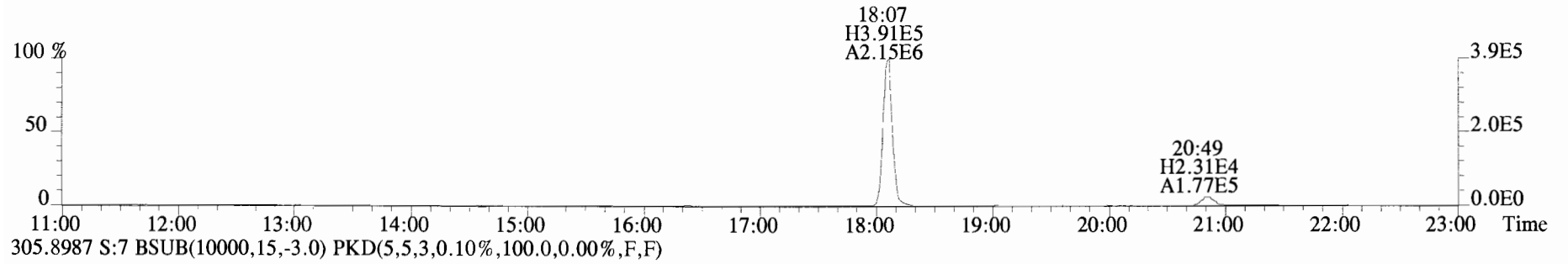
File:190530D1 #1-1682 Acq:30-MAY-2019 13:41:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista_Analytical_Laboratory_VG7 Text:ST190530D1-4 1613 CS3 19C2204 Exp:TCDF_DB225
303.9016 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



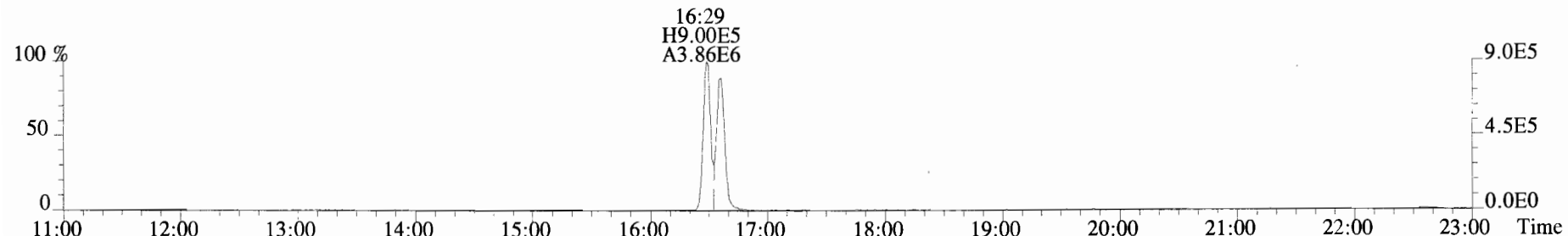
File:190530D1 #1-1682 Acq:30-MAY-2019 13:41:11 GC EI+ Voltage SIR Autospec-UltimaE
Sample#6 File Text:Vista Analytical Laboratory VG7 Text:ST190530D1-4 1613 CS3 19C2204 Exp:TCDF_DB225
331.9368 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



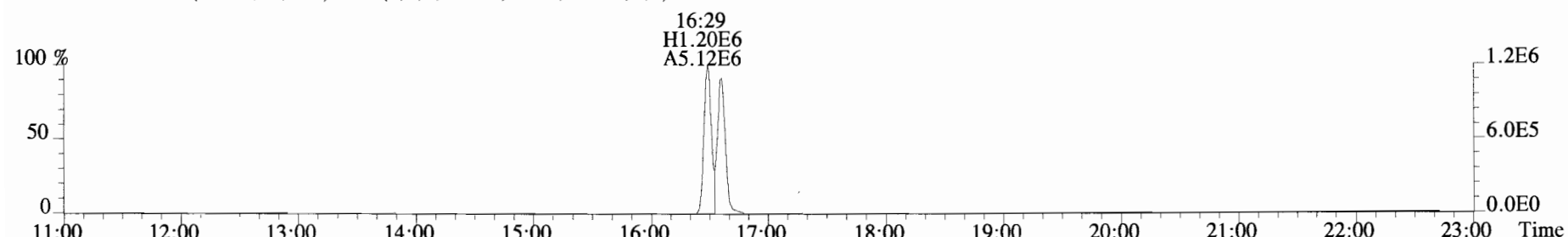
File:190530D1 #1-1682 Acq:30-MAY-2019 14:13:01 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 File Text:Vista Analytical Laboratory VG7 Text:ST190530D1-5 1613 CS4 19C2205 Exp:TCDF_DB225
303.9016 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



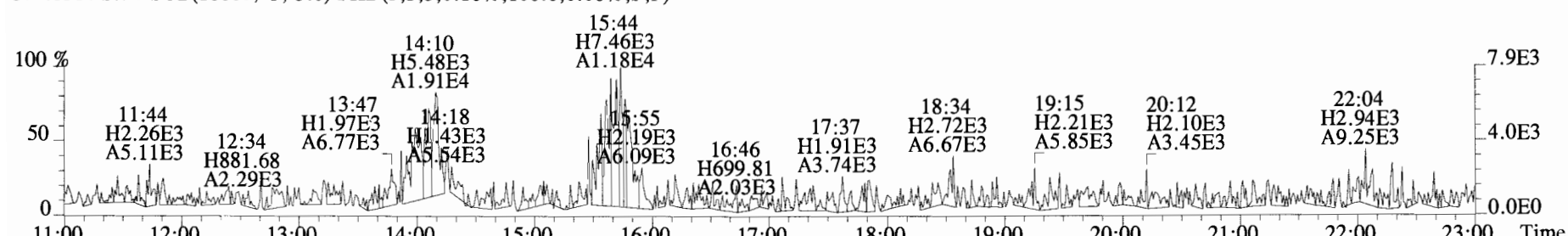
File:190530D1 #1-1682 Acq:30-MAY-2019 14:13:01 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 File Text:Vista Analytical Laboratory VG7 Text:ST190530D1-5 1613 CS4 19C2205 Exp:TCDF_DB225
 331.9368 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



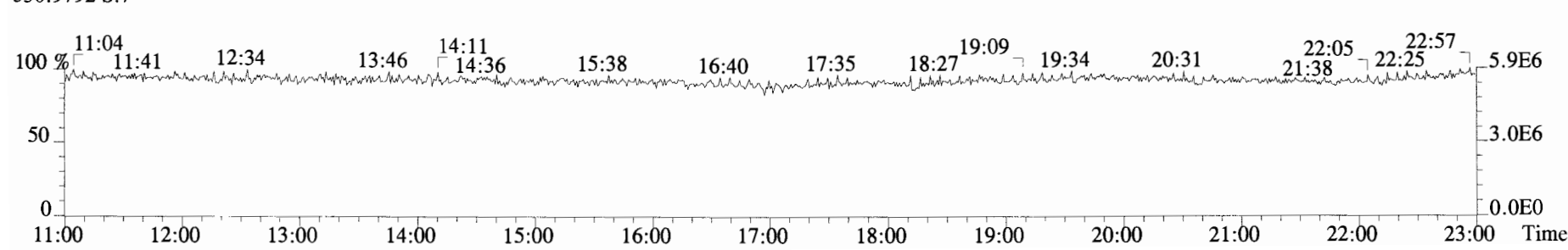
333.9339 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



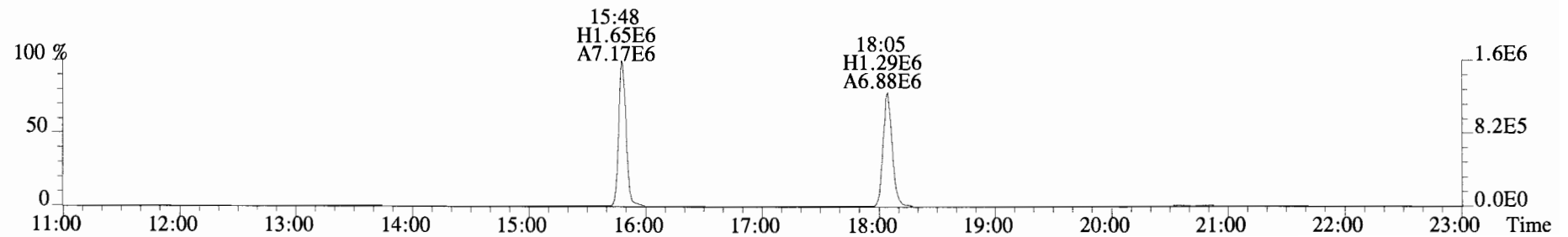
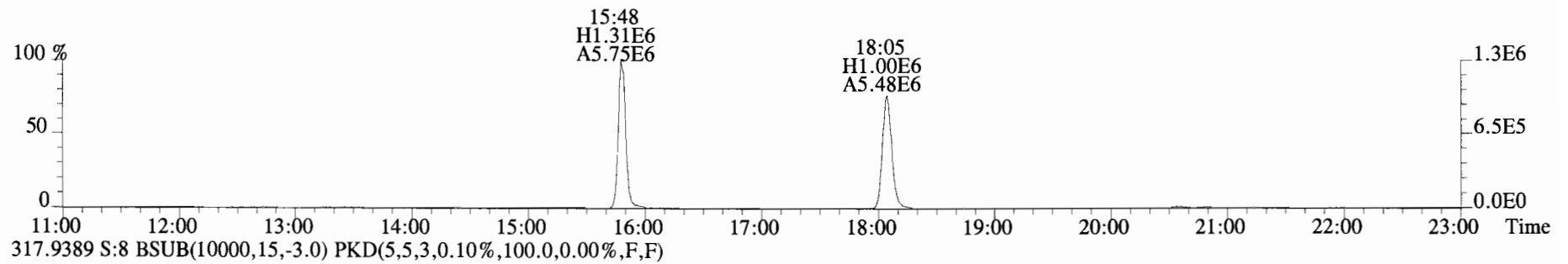
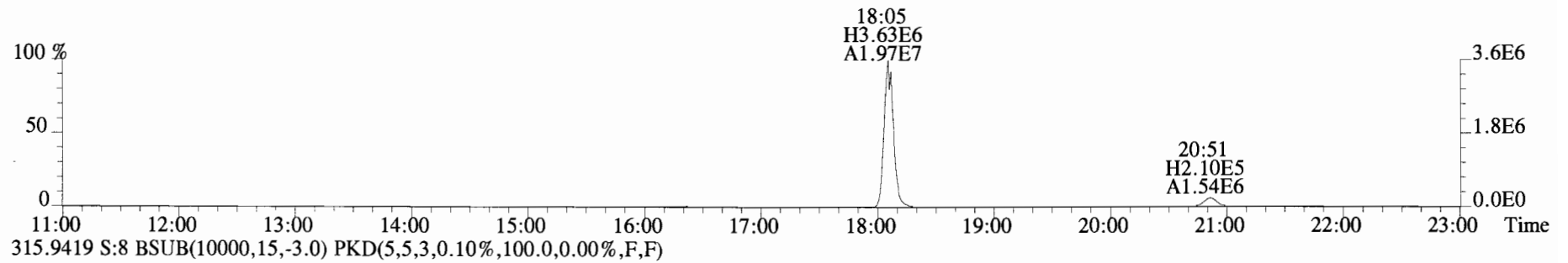
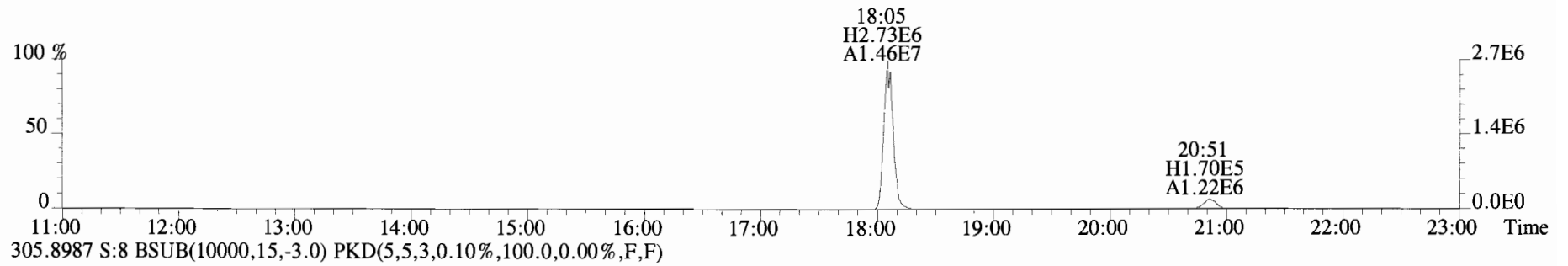
375.8364 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



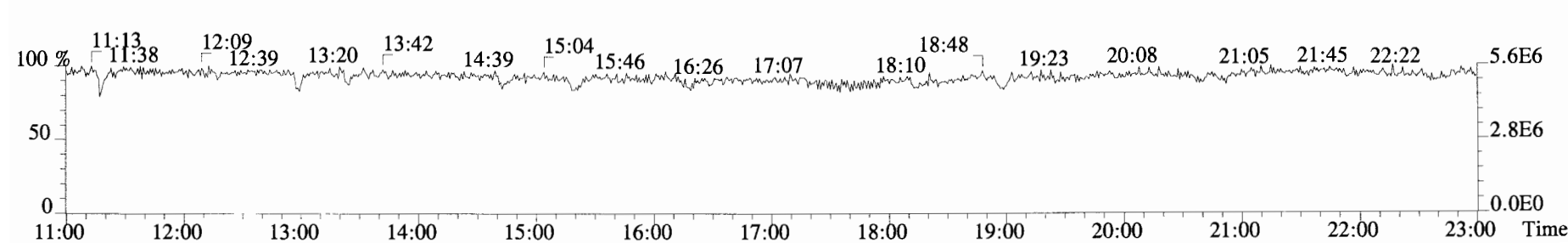
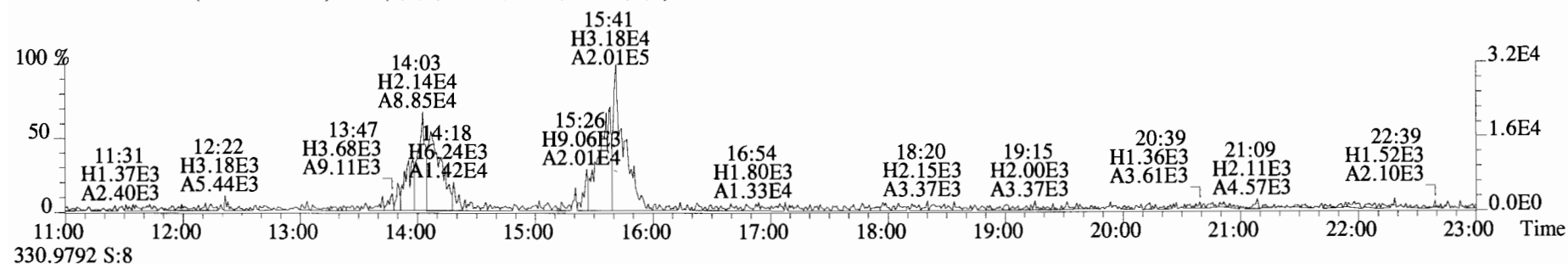
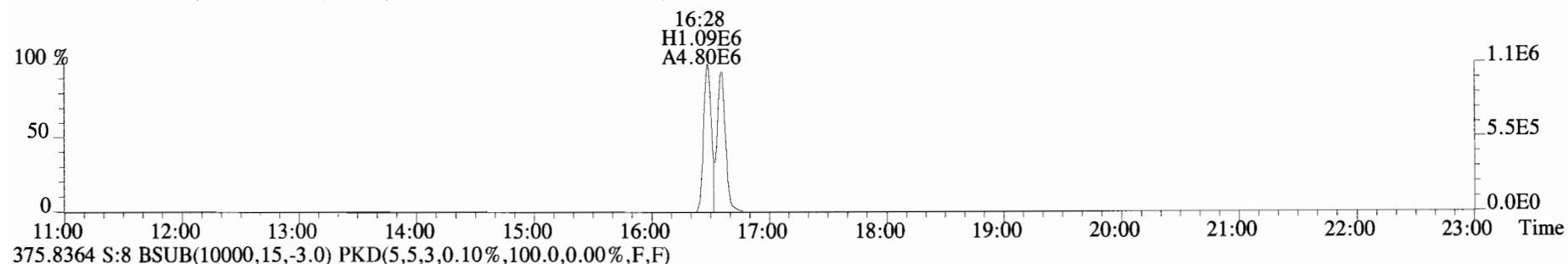
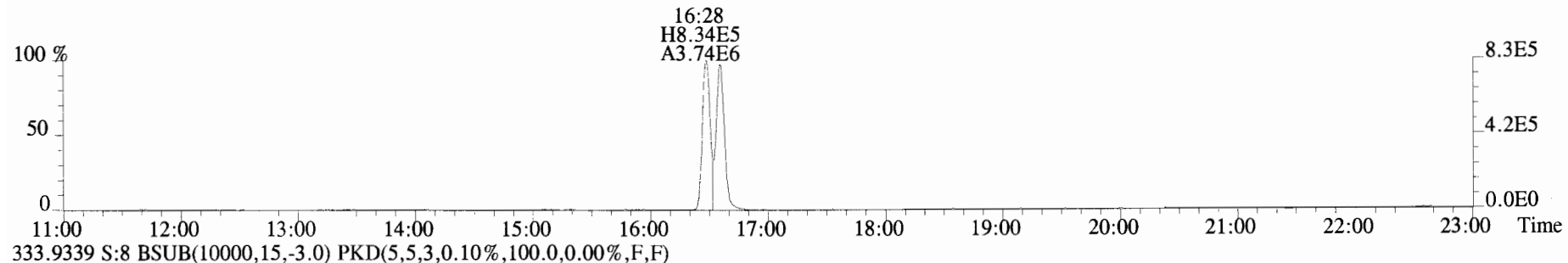
330.9792 S:7

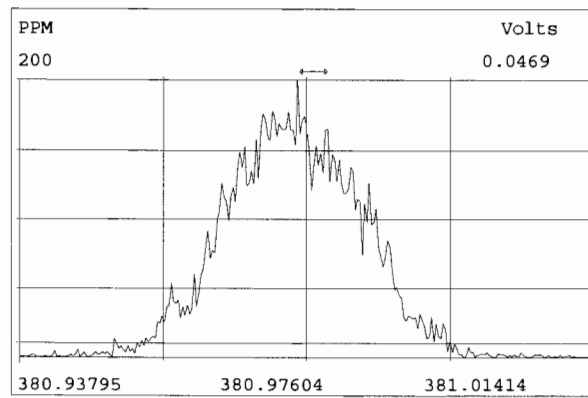
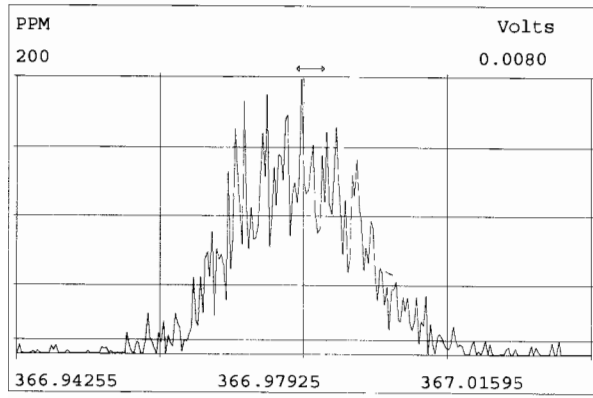
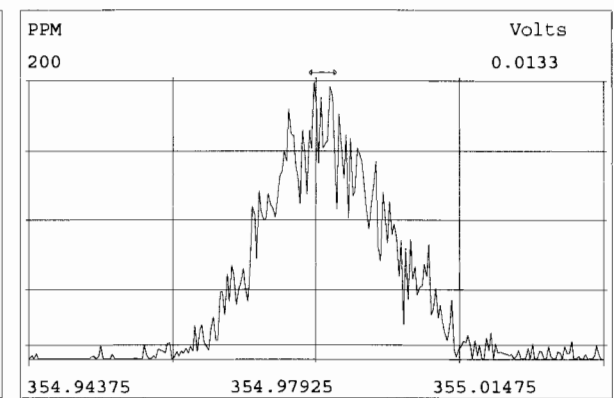
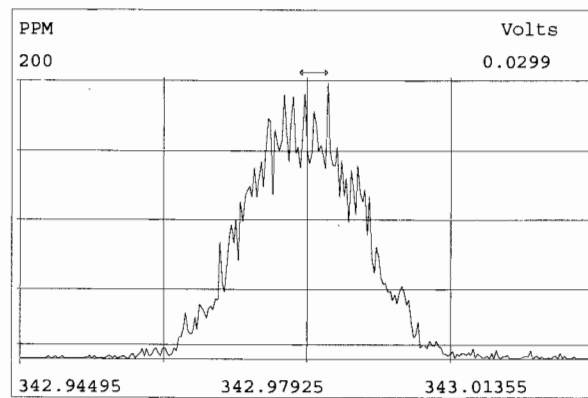
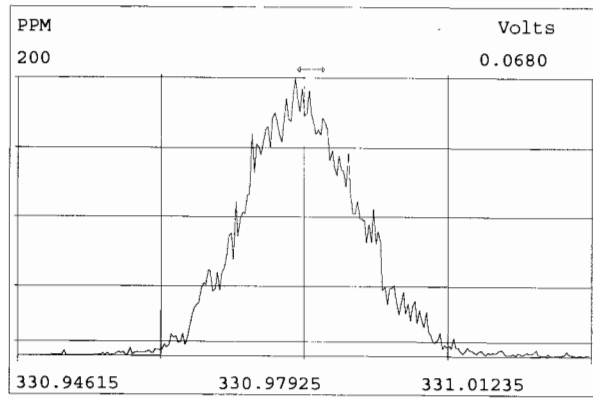
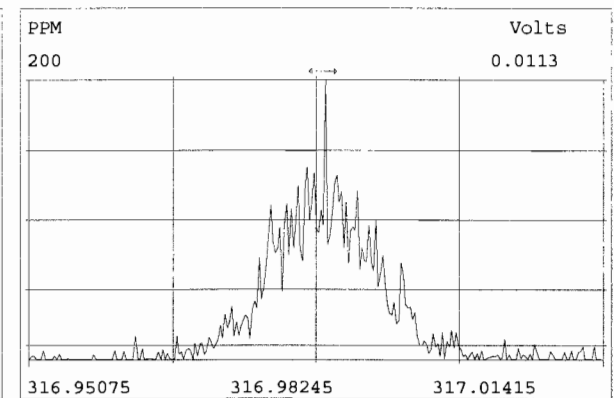
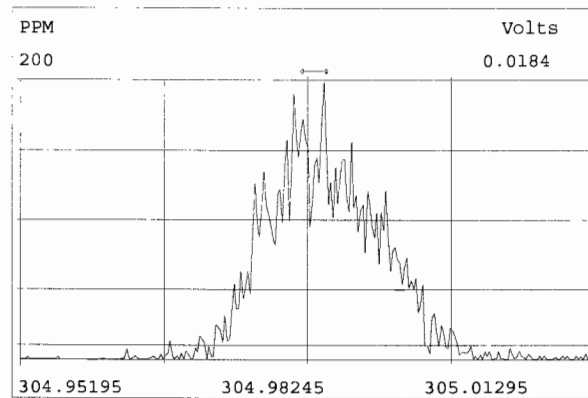
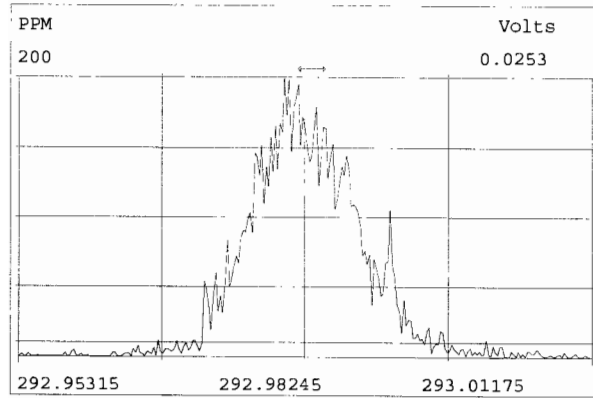


File:190530D1 #1-1682 Acq:30-MAY-2019 14:44:52 GC EI+ Voltage SIR Autospec-UltimaE
Sample#8 File Text:Vista Analytical Laboratory VG7 Text:ST190530D1-6 1613 CS5 19C2206 Exp:TCDF_DB225
303.9016 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:190530D1 #1-1682 Acq:30-MAY-2019 14:44:52 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#8 File Text:Vista Analytical Laboratory VG7 Text:ST190530D1-6 1613 CS5 19C2206 Exp:TCDF_DB225
 331.9368 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)





Client ID: 1613 SSS 19C2207
Lab ID: SS190528D1-1

Filename: 190530D1 S:10 Acq:30-MAY-19 15:48:32
GC Column ID: DB-225 ICal: 1613TCDFVG7-5-30-19 wt/vol: 1.000

ConCal: ST190530D1-4
EndCAL: NA

Name	Resp	RA	RT	RRF	Conc	Rec
13C-1,2,3,4-TCDF	1.15e+07	0.82 y	15:48	1.00	100.0	-
13C-2,3,7,8-TCDF	1.18e+07	0.80 y	18:04	1.02	100.0	100.0
2,3,7,8-TCDF	1.08e+06	0.74 y	18:05	0.95	9.628	

Integrations

by
Analyst: DB

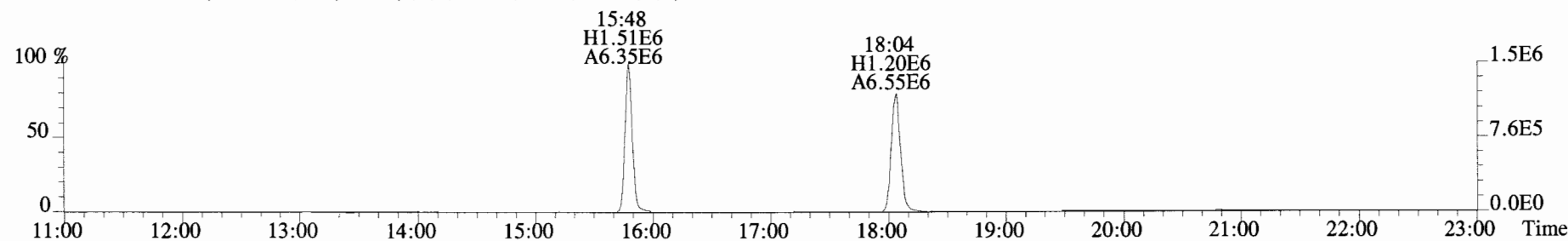
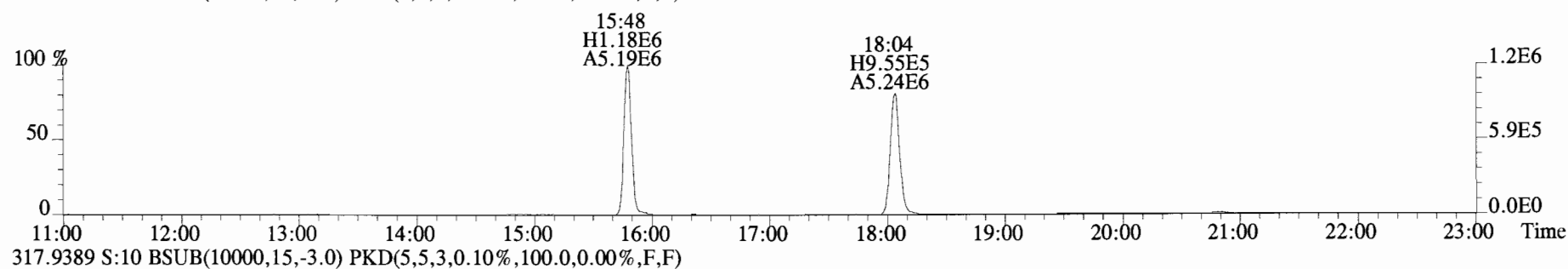
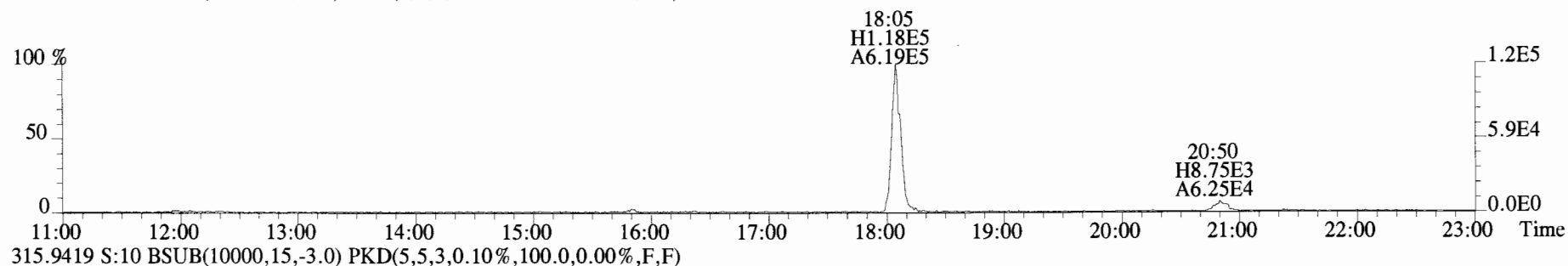
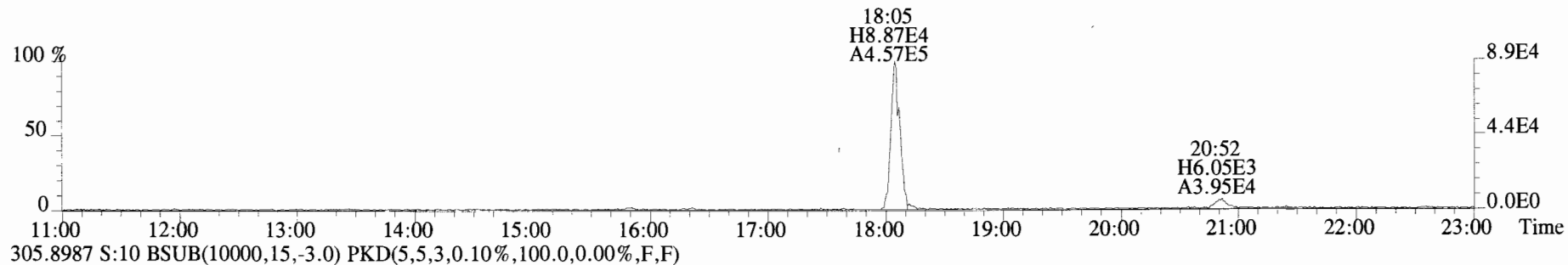
Date: 5/31/19

Reviewed

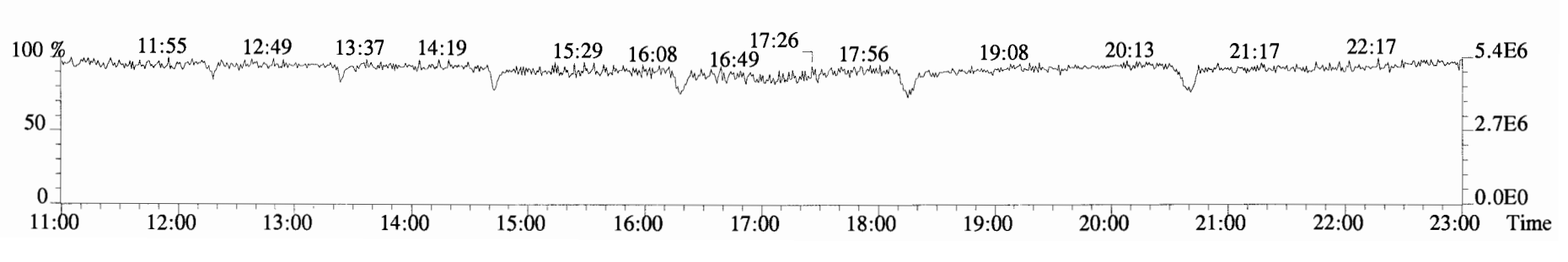
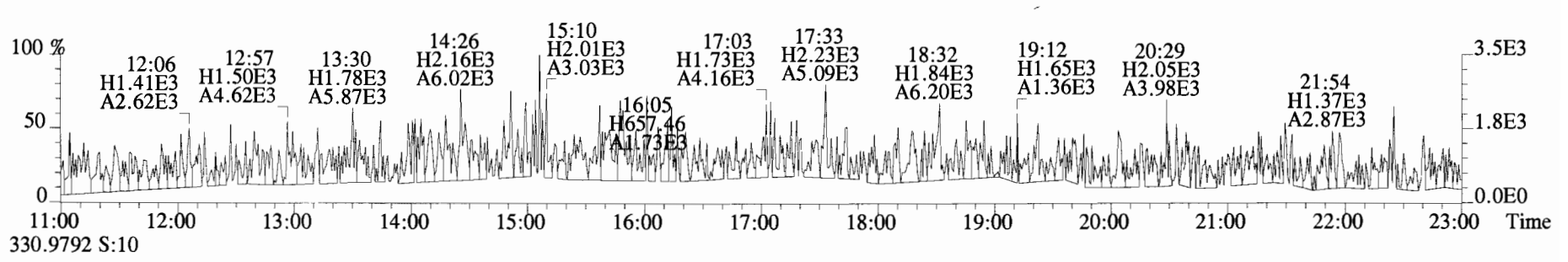
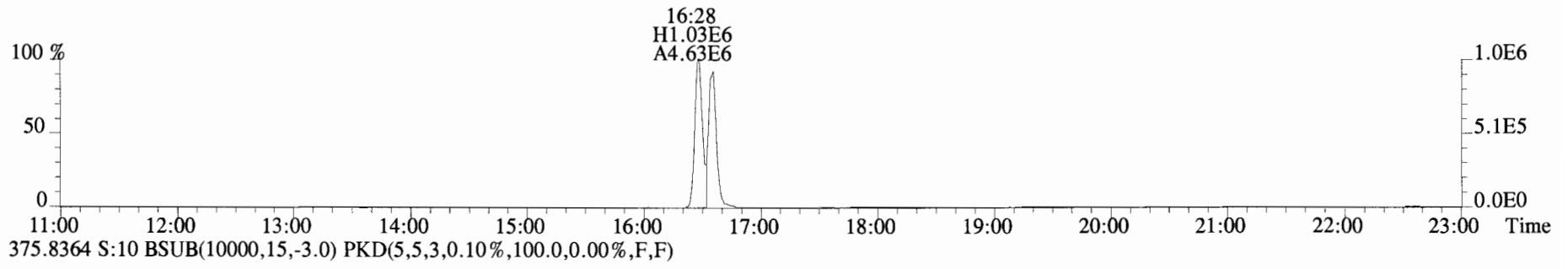
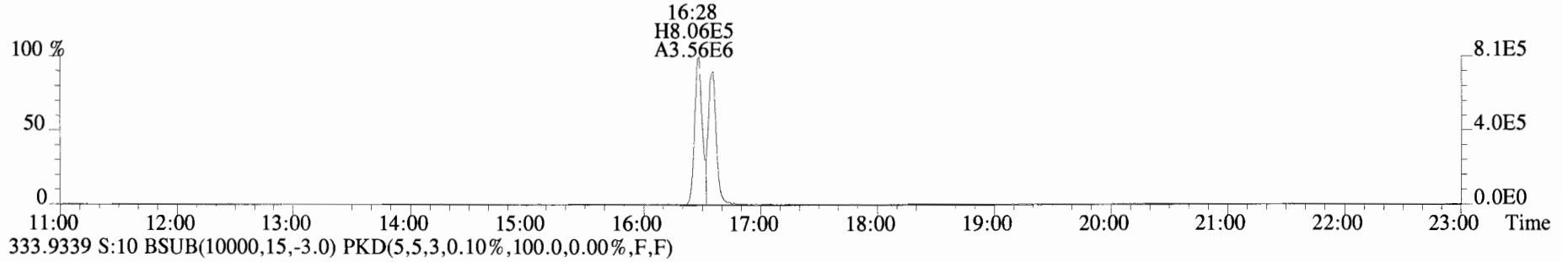
by
Analyst: CT

Date: 05/31/19

File:190530D1 #1-1682 Acq:30-MAY-2019 15:48:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#10 File Text:Vista Analytical Laboratory_VG7 Text:SS190528D1-1 1613 SSS 19C2207 Exp:TCDF_DB225
303.9016 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



File:190530D1 #1-1682 Acq:30-MAY-2019 15:48:32 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#10 File Text: Vista Analytical Laboratory VG7 Text:SS190528D1-1 1613 SSS 19C2207 Exp:TCDF_DB225
 331.9368 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F)



Dataset: U:\VG11.PRO\Results\191122K3\191122K3-CRV.qld

Last Altered: Saturday, November 23, 2019 13:11:31 Pacific Standard Time
 Printed: Saturday, November 23, 2019 13:15:15 Pacific Standard Time

EL 11/23/19

Method: U:\VG11.PRO\MethDB\1699rrt-11-21-19.mdb 21 Nov 2019 11:39:32
 Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-11-22-19-LIMITEDB.cdb 23 Nov 2019 13:11:31

Limited: High Point for Endosulfan I
 Endosulfan II and trans-Chlordane
 (gamma) @ 250

GRB 11/25/19

Compound name: Hexachlorobenzene
 Response Factor: 0.874254
 RRF SD: 0.0835857, Relative SD: 9.5608
 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	191122K3_1	2.00	1.22	NO	22.84	1.001	6.41e4	1.75e6	2.10	5.0	0.918	bb
2	191122K3_2	10.0	1.22	NO	22.84	1.001	2.26e5	1.28e6	10.1	0.8	0.881	bb
3	191122K3_3	100	1.22	NO	22.83	1.001	2.30e6	1.62e6	81.3	-18.7	0.711	bb
4	191122K3_4	250	1.22	NO	22.83	1.001	9.73e6	2.16e6	258	3.2	0.902	bb
5	191122K3_5	1200	1.22	NO	22.83	1.000	4.84e7	2.28e6	1210	1.2	0.885	bb
6	191122K3_6	50.0	1.21	NO	22.83	1.000	1.48e6	1.56e6	54.2	8.4	0.948	bb

Compound name: Alpha-BHC
 Response Factor: 0.760492
 RRF SD: 0.0706404, Relative SD: 9.28877
 Response type: Internal Std (Ref 35), 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	191122K3_1	2.00	2.16	NO	23.39	1.001	2.01e4	6.29e5	2.10	5.1	0.800	bb
2	191122K3_2	10.0	2.17	NO	23.39	1.001	6.88e4	4.52e5	10.0	0.1	0.761	bb
3	191122K3_3	100	2.11	NO	23.39	1.001	6.98e5	5.62e5	81.6	-18.4	0.621	bb
4	191122K3_4	250	2.11	NO	23.37	1.001	3.01e6	7.66e5	259	3.4	0.787	bb
5	191122K3_5	1200	2.10	NO	23.39	1.001	1.58e7	8.39e5	1230	2.9	0.782	bb
6	191122K3_6	50.0	2.12	NO	23.39	1.001	4.44e5	5.46e5	53.4	6.9	0.813	bb

Dataset: U:\VG11.PRO\Results\191122K3\191122K3-CRV.qld

Last Altered: Saturday, November 23, 2019 13:11:31 Pacific Standard Time
 Printed: Saturday, November 23, 2019 13:15:15 Pacific Standard Time

Compound name: Lindane (gamma-BHC)

Response Factor: 0.744411

RRF SD: 0.0792613, Relative SD: 10.6475

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	191122K3_1	2.00	2.02	NO	26.68	1.002	1.53e4	4.71e5	2.18	9.2	0.813	bb
2	191122K3_2	10.0	2.12	NO	26.66	1.001	5.05e4	3.38e5	10.0	0.5	0.748	bb
3	191122K3_3	100	2.10	NO	26.66	1.001	5.24e5	4.27e5	82.5	-17.5	0.614	bb
4	191122K3_4	250	2.10	NO	26.65	1.001	2.27e6	5.83e5	261	4.5	0.778	bb
5	191122K3_5	1200	2.10	NO	26.66	1.001	1.21e7	7.26e5	1120	-7.0	0.693	bb
6	191122K3_6	50.0	2.12	NO	26.66	1.001	3.29e5	4.01e5	55.2	10.4	0.822	bb

Compound name: Beta-BHC

Response Factor: 0.895956

RRF SD: 0.0860874, Relative SD: 9.60844

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	191122K3_1	2.00	2.18	NO	28.75	1.001	1.36e4	3.60e5	2.11	5.4	0.944	bb
2	191122K3_2	10.0	2.22	NO	28.74	1.001	4.55e4	2.57e5	9.90	-1.0	0.887	bb
3	191122K3_3	100	2.14	NO	28.74	1.001	4.67e5	3.21e5	81.2	-18.8	0.728	bb
4	191122K3_4	250	2.08	NO	28.72	1.001	2.00e6	4.29e5	260	3.8	0.930	bb
5	191122K3_5	1200	2.10	NO	28.74	1.001	1.12e7	5.05e5	1240	3.3	0.926	bb
6	191122K3_6	50.0	2.16	NO	28.74	1.001	2.94e5	3.06e5	53.6	7.3	0.961	bb

Compound name: Delta-BHC

Response Factor: 0.837358

RRF SD: 0.0835431, Relative SD: 9.97699

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	191122K3_1	2.00	2.10	NO	30.44	1.001	1.43e4	4.11e5	2.07	3.6	0.867	bb
2	191122K3_2	10.0	2.12	NO	30.44	1.001	5.03e4	2.98e5	10.1	0.9	0.845	bb

Dataset: U:\VG11.PRO\Results\191122K3\191122K3-CRV.qld

Last Altered: Saturday, November 23, 2019 13:11:31 Pacific Standard Time
 Printed: Saturday, November 23, 2019 13:15:15 Pacific Standard Time

Compound name: Delta-BHC

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
3	191122K3_3	100	2.07	NO	30.42	1.000	5.09e5	3.79e5	80.2	-19.8	0.672	bb
4	191122K3_4	250	2.13	NO	30.42	1.001	2.22e6	5.08e5	261	4.5	0.875	bb
5	191122K3_5	1200	2.08	NO	30.42	1.001	1.23e7	5.97e5	1230	2.7	0.860	bb
6	191122K3_6	50.0	2.13	NO	30.42	1.000	3.23e5	3.57e5	54.0	8.1	0.905	bb

Compound name: Heptachlor

Response Factor: 0.967655

RRF SD: 0.0968214, Relative SD: 10.0058

Response type: Internal Std (Ref 39), 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	191122K3_1	2.00	1.20	NO	28.86	1.001	7.22e3	1.79e5	2.09	4.3	1.01	bb
2	191122K3_2	10.0	1.06	NO	28.86	1.001	2.37e4	1.29e5	9.49	-5.1	0.918	bb
3	191122K3_3	100	1.13	NO	28.86	1.001	2.68e5	1.69e5	82.0	-18.0	0.794	bb
4	191122K3_4	250	1.14	NO	28.86	1.002	1.25e6	2.49e5	260	4.0	1.01	bb
5	191122K3_5	1200	1.14	NO	28.86	1.001	7.33e6	2.99e5	1270	5.7	1.02	bb
6	191122K3_6	50.0	1.13	NO	28.86	1.001	1.89e5	1.79e5	54.6	9.2	1.06	bb

Compound name: Aldrin

Response Factor: 1.02364

RRF SD: 0.101448, Relative SD: 9.91054

Response type: Internal Std (Ref 40), 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	191122K3_1	2.00	1.58	NO	31.00	1.001	1.34e4	2.98e5	2.19	9.4	1.12	bb
2	191122K3_2	10.0	1.67	NO	31.00	1.001	4.39e4	2.17e5	9.90	-1.0	1.01	bb
3	191122K3_3	100	1.63	NO	30.99	1.001	4.62e5	2.78e5	81.3	-18.7	0.832	bb
4	191122K3_4	250	1.60	NO	30.99	1.001	2.03e6	3.86e5	256	2.5	1.05	bb
5	191122K3_5	1200	1.59	NO	31.00	1.001	1.05e7	4.24e5	1210	1.1	1.04	bb
6	191122K3_6	50.0	1.62	NO	31.00	1.001	3.06e5	2.80e5	53.3	6.6	1.09	bb

Dataset: U:\VG11.PRO\Results\191122K3\191122K3-CRV.qld

Last Altered: Saturday, November 23, 2019 13:11:31 Pacific Standard Time
 Printed: Saturday, November 23, 2019 13:15:15 Pacific Standard Time

Compound name: Oxychlordane

Response Factor: 0.992427

RRF SD: 0.0924332, Relative SD: 9.31386

Response type: Internal Std (Ref 41), 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	191122K3_1	2.00	1.78	NO	33.61	1.001	2.68e3	6.62e4	2.04	2.0	1.01	bb
2	191122K3_2	10.0	1.54	NO	33.61	1.001	9.63e3	4.83e4	10.0	0.5	0.997	bb
3	191122K3_3	100	1.57	NO	33.60	1.001	1.02e5	6.27e4	82.3	-17.7	0.817	bb
4	191122K3_4	250	1.58	NO	33.58	1.001	4.71e5	9.19e4	259	3.4	1.03	bb
5	191122K3_5	1200	1.62	NO	33.60	1.001	2.66e6	1.10e5	1220	1.7	1.01	bb
6	191122K3_6	50.0	1.56	NO	33.60	1.001	6.96e4	6.37e4	55.1	10.1	1.09	bb

Compound name: cis-Heptachlor Epoxide

Response Factor: 1.00277

RRF SD: 0.103957, Relative SD: 10.367

Response type: Internal Std (Ref 42), 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	191122K3_1	2.00	1.49	NO	34.40	1.001	3.70e3	8.51e4	2.17	8.5	1.09	bb
2	191122K3_2	10.0	1.47	NO	34.40	1.001	1.26e4	6.12e4	10.3	2.8	1.03	bb
3	191122K3_3	100	1.59	NO	34.39	1.001	1.32e5	8.22e4	79.9	-20.1	0.802	bb
4	191122K3_4	250	1.59	NO	34.39	1.001	6.15e5	1.20e5	256	2.4	1.03	bb
5	191122K3_5	1200	1.61	NO	34.39	1.000	3.40e6	1.42e5	1190	-0.6	0.996	bb
6	191122K3_6	50.0	1.58	NO	34.39	1.000	8.90e4	8.30e4	53.5	7.0	1.07	bb

Compound name: trans-Heptachlor Epoxide

Response Factor: 0.255033

RRF SD: 0.0296586, Relative SD: 11.6293

Response type: Internal Std (Ref 42), 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	191122K3_1	2.00	1.54	NO	34.88	1.015	7.47e2	8.51e4	1.72	-13.9	0.220	MM
2	191122K3_2	10.0	1.77	NO	34.90	1.015	3.49e3	6.12e4	11.2	11.7	0.285	bb

Dataset: U:\VG11.PRO\Results\191122K3\191122K3-CRV.qld

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Compound name: trans-Heptachlor Epoxide

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	191122K3_3	100	1.48	NO	34.88	1.015	3.56e4	8.22e4	84.8	-15.2	0.216	bb
4	191122K3_4	250	1.54	NO	34.87	1.015	1.63e5	1.20e5	267	6.7	0.272	bb
5	191122K3_5	1200	1.58	NO	34.88	1.015	8.95e5	1.42e5	1230	2.8	0.262	bb
6	191122K3_6	50.0	1.63	NO	34.88	1.015	2.28e4	8.30e4	53.9	7.9	0.275	bb

Compound name: trans-Chlordane (gamma)

Response Factor: 1.08361
 RRF SD: 0.142289, Relative SD: 13.1309
 Response type: Internal Std (Ref 43), 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	191122K3_1	2.00	1.41	NO	35.31	1.001	3.45e3	7.10e4	2.24	12.2	1.22	bb
2	191122K3_2	10.0	1.63	NO	35.31	1.001	1.21e4	5.07e4	11.0	9.8	1.19	bb
3	191122K3_3	100	1.61	NO	35.29	1.001	1.13e5	6.61e4	78.9	-21.1	0.855	bb
4	191122K3_4	250	1.58	NO	35.29	1.001	5.25e5	9.72e4	249	-0.4	1.08	bb
5	191122K3_5	1200	1.58	NO	35.29	1.000	2.70e6	1.33e5	937	-21.9	0.846	bbX
6	191122K3_6	50.0	1.55	NO	35.29	1.000	7.45e4	6.91e4	49.7	-0.5	1.08	bb

Compound name: trans-Nonachlor

Response Factor: 1.00218
 RRF SD: 0.144049, Relative SD: 14.3735
 Response type: Internal Std (Ref 44), 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	191122K3_1	2.00	1.55	NO	35.50	1.001	3.75e3	7.84e4	2.39	19.4	1.20	bb
2	191122K3_2	10.0	1.51	NO	35.49	1.001	1.15e4	5.59e4	10.3	2.9	1.03	bb
3	191122K3_3	100	1.58	NO	35.48	1.000	1.18e5	7.50e4	78.6	-21.4	0.788	bb
4	191122K3_4	250	1.57	NO	35.48	1.001	5.45e5	1.09e5	251	0.2	1.00	bb
5	191122K3_5	1200	1.59	NO	35.48	1.000	2.84e6	1.32e5	1080	-10.4	0.898	bb
6	191122K3_6	50.0	1.60	NO	35.48	1.000	7.99e4	7.30e4	54.6	9.2	1.09	bb

Dataset: U:\VG11.PRO\Results\191122K3\191122K3-CRV.qld

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Compound name: cis-Chlordane

Response Factor: 0.980978

RRF SD: 0.121108, Relative SD: 12.3456

Response type: Internal Std (Ref 44), Area * (IS Conc. / IS Area)

Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
191122K3_1	2.00	1.56	NO	35.96	1.014	3.26e3	7.84e4	2.12	6.0	1.04	bd
191122K3_2	10.0	1.55	NO	35.98	1.014	1.16e4	5.59e4	10.6	5.9	1.04	bd
191122K3_3	100	1.57	NO	35.98	1.014	1.18e5	7.50e4	80.1	-19.9	0.786	bd
191122K3_4	250	1.61	NO	35.96	1.014	5.56e5	1.09e5	261	4.4	1.02	bd
191122K3_5	1200	1.58	NO	35.98	1.014	2.80e6	1.32e5	1080	-9.8	0.885	bd
191122K3_6	50.0	1.64	NO	35.98	1.014	8.13e4	7.30e4	56.7	13.5	1.11	bd

Compound name: Endosulfan I (alpha)

Response Factor: 1.10625

RRF SD: 0.218305, Relative SD: 19.7339

Response type: Internal Std (Ref 45), Area * (IS Conc. / IS Area)

Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
191122K3_1	10.0	1.38	NO	36.08	1.000	1.37e4	4.94e4	12.5	25.1	1.38	MM
191122K3_2	15.0	1.71	NO	36.08	1.000	1.36e4	3.65e4	16.8	12.3	1.24	MM
191122K3_3	100	1.57	NO	36.08	1.001	7.92e4	4.83e4	74.2	-25.8	0.820	db
191122K3_4	250	1.58	NO	36.06	1.000	3.73e5	7.53e4	224	-10.4	0.992	db
191122K3_5	1200	1.58	NO	36.08	1.000	1.96e6	1.12e5	786	-34.5	0.725	dbX
191122K3_6	50.0	1.65	NO	36.08	1.001	5.38e4	4.92e4	49.4	-1.2	1.09	db

Compound name: 2,4'-DDE

Response Factor: 0.854193

RRF SD: 0.0854642, Relative SD: 10.0053

Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)

Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
191122K3_1	2.00	1.25	NO	35.96	1.000	6.80e4	1.83e6	2.17	8.4	0.926	bb
191122K3_2	10.0	1.30	NO	35.96	1.000	2.32e5	1.35e6	10.1	1.0	0.863	bb

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Compound name: 2,4'-DDE

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	191122K3_3	100	1.34	NO	35.96	1.001	2.41e6	1.75e6	80.9	-19.1	0.691	bb
4	191122K3_4	250	1.34	NO	35.95	1.000	1.11e7	2.48e6	262	4.7	0.894	bb
5	191122K3_5	1200	1.34	NO	35.96	1.000	5.27e7	2.60e6	1190	-1.2	0.844	bb
6	191122K3_6	50.0	1.34	NO	35.96	1.000	1.64e6	1.80e6	53.1	6.2	0.908	bb

Compound name: 4,4'-DDE

Response Factor: 0.872751

RRF SD: 0.0898359, Relative SD: 10.2934

Response type: Internal Std (Ref 47), 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	191122K3_1	2.00	1.26	NO	37.04	1.000	4.99e4	1.33e6	2.16	7.8	0.941	bb
2	191122K3_2	10.0	1.37	NO	37.04	1.000	1.68e5	9.30e5	10.3	3.4	0.902	bb
3	191122K3_3	100	1.36	NO	37.03	1.000	1.73e6	1.24e6	80.0	-20.0	0.698	bb
4	191122K3_4	250	1.33	NO	37.03	1.000	8.18e6	1.81e6	259	3.7	0.905	bb
5	191122K3_5	1200	1.32	NO	37.04	1.001	4.08e7	1.97e6	1180	-1.3	0.861	bb
6	191122K3_6	50.0	1.34	NO	37.04	1.000	1.22e6	1.32e6	53.2	6.4	0.929	bb

Compound name: Dieldrin

Response Factor: 0.956974

RRF SD: 0.0957195, Relative SD: 10.0023

Response type: Internal Std (Ref 48), 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	191122K3_1	2.00	1.77	NO	37.54	1.000	7.71e3	1.83e5	2.20	9.9	1.05	MM
2	191122K3_2	10.0	1.61	NO	37.54	1.001	2.55e4	1.30e5	10.2	2.2	0.978	bb
3	191122K3_3	100	1.57	NO	37.53	1.000	2.60e5	1.68e5	80.7	-19.3	0.773	bb
4	191122K3_4	250	1.56	NO	37.53	1.001	1.21e6	2.44e5	259	3.8	0.993	bb
5	191122K3_5	1200	1.57	NO	37.53	1.000	5.96e6	2.60e5	1200	-0.0	0.957	bb
6	191122K3_6	50.0	1.61	NO	37.54	1.001	1.75e5	1.77e5	51.7	3.4	0.989	bb

Dataset: U:\VG11.PRO\Results\191122K3\191122K3-CRV.qld

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Compound name: Endrin

Response Factor: 0.932602

RRF SD: 0.0974821, Relative SD: 10.4527

Response type: Internal Std (Ref 49), Area * (IS Conc. / IS Area)

Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
191122K3_1	2.00	1.32	NO	38.95	1.001	3.07e3	8.37e4	1.97	-1.5	0.918	bb
191122K3_2	10.0	1.48	NO	38.94	1.000	1.07e4	5.34e4	10.7	7.4	1.00	bb
191122K3_3	100	1.50	NO	38.94	1.001	1.09e5	7.32e4	79.6	-20.4	0.742	bb
191122K3_4	250	1.57	NO	38.94	1.001	6.06e5	1.24e5	263	5.3	0.982	bb
191122K3_5	1200	1.57	NO	38.94	1.000	3.35e6	1.43e5	1260	5.1	0.980	bb
191122K3_6	50.0	1.58	NO	38.94	1.000	7.71e4	7.93e4	52.2	4.3	0.973	bb

Compound name: cis-Nonachlor

Response Factor: 0.955617

RRF SD: 0.116667, Relative SD: 12.2085

Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)

Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
191122K3_1	2.00	1.55	NO	39.23	1.000	4.01e3	9.15e4	2.29	14.6	1.09	bb
191122K3_2	10.0	1.65	NO	39.23	1.000	1.21e4	6.52e4	9.69	-3.1	0.926	MM
191122K3_3	100	1.55	NO	39.22	1.000	1.32e5	8.59e4	80.5	-19.5	0.769	bb
191122K3_4	250	1.55	NO	39.22	1.000	6.41e5	1.28e5	263	5.0	1.00	bb
191122K3_5	1200	1.57	NO	39.23	1.000	3.22e6	1.49e5	1130	-5.9	0.899	bb
191122K3_6	50.0	1.62	NO	39.23	1.001	9.34e4	8.97e4	54.5	9.0	1.04	bb

Compound name: Endosulfan II (beta)

Response Factor: 1.06389

RRF SD: 0.21151, Relative SD: 19.8809

Response type: Internal Std (Ref 51), Area * (IS Conc. / IS Area)

Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
191122K3_1	10.0	1.67	NO	39.96	1.000	6.92e3	2.56e4	12.7	27.1	1.35	MM
191122K3_2	15.0	1.60	NO	39.95	1.000	6.23e3	1.79e4	16.3	8.8	1.16	MM

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Compound name: Endosulfan II (beta)

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	191122K3_3	100	1.53	NO	39.95	1.000	4.10e4	2.54e4	75.9	-24.1	0.808	MM
4	191122K3_4	250	1.60	NO	39.95	1.000	1.91e5	4.16e4	216	-13.6	0.920	MM
5	191122K3_5	1200	1.53	NO	39.96	1.000	1.02e6	7.55e4	633	-47.3	0.561	bbX
6	191122K3_6	50.0	1.66	NO	39.96	1.000	2.90e4	2.68e4	50.8	1.7	1.08	bb

Compound name: 2,4'-DDD

Response Factor: 0.915287

RRF SD: 0.089287, Relative SD: 9.75508

Response type: Internal Std (Ref 52), 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	191122K3_1	2.00	1.58	NO	38.18	1.000	5.40e4	1.35e6	2.19	9.5	1.00	bb
2	191122K3_2	10.0	1.63	NO	38.18	1.000	1.76e5	9.56e5	10.1	0.8	0.923	bb
3	191122K3_3	100	1.58	NO	38.18	1.000	1.87e6	1.25e6	81.7	-18.3	0.748	bb
4	191122K3_4	250	1.61	NO	38.17	1.000	8.90e6	1.91e6	254	1.6	0.930	bb
5	191122K3_5	1200	1.59	NO	38.18	1.000	5.24e7	2.40e6	1190	-0.5	0.911	bb
6	191122K3_6	50.0	1.61	NO	38.18	1.000	1.35e6	1.38e6	53.4	6.9	0.978	bb

Compound name: 2,4'-DDT

Response Factor: 0.920521

RRF SD: 0.116093, Relative SD: 12.6116

Response type: Internal Std (Ref 53), 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	191122K3_1	2.00	1.34	NO	39.31	1.000	3.32e4	7.66e5	2.36	17.8	1.08	bd
2	191122K3_2	10.0	1.61	NO	39.31	1.000	1.05e5	5.69e5	9.99	-0.1	0.919	bd
3	191122K3_3	100	1.58	NO	39.31	1.000	1.13e6	7.82e5	78.3	-21.7	0.721	bd
4	191122K3_4	250	1.59	NO	39.29	1.000	5.70e6	1.23e6	253	1.1	0.931	bd
5	191122K3_5	1200	1.57	NO	39.31	1.000	3.54e7	1.60e6	1200	0.1	0.922	bd
6	191122K3_6	50.0	1.60	NO	39.31	1.000	8.63e5	9.12e5	51.4	2.8	0.946	bd

Dataset: U:\VG11.PRO\Results\191122K3\191122K3-CRV.qld

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Compound name: 4,4'-DDD

Response Factor: 1.00391
 RRF SD: 0.101312, Relative SD: 10.0918
 Response type: Internal Std (Ref 54), Area * (IS Conc. / IS Area)
 Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
191122K3_1	2.00	1.46	NO	39.44	1.000	4.57e4	1.03e6	2.20	10.1	1.10	db
191122K3_2	10.0	1.61	NO	39.44	1.000	1.50e5	7.34e5	10.1	1.4	1.02	db
191122K3_3	100	1.61	NO	39.43	1.000	1.60e6	9.87e5	80.5	-19.5	0.809	db
191122K3_4	250	1.61	NO	39.43	1.000	8.01e6	1.57e6	254	1.7	1.02	db
191122K3_5	1200	1.59	NO	39.44	1.000	4.88e7	1.99e6	1220	1.6	1.02	db
191122K3_6	50.0	1.62	NO	39.44	1.000	1.21e6	1.15e6	52.3	4.7	1.05	db

Compound name: 4,4'-DDT

Response Factor: 0.986452
 RRF SD: 0.0973744, Relative SD: 9.87118
 Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)
 Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
191122K3_1	2.00	1.50	NO	40.51	1.000	2.50e4	6.00e5	2.11	5.7	1.04	MM
191122K3_2	10.0	1.50	NO	40.51	1.000	8.38e4	4.15e5	10.2	2.4	1.01	MM
191122K3_3	100	1.57	NO	40.50	1.000	9.06e5	5.73e5	80.1	-19.9	0.790	bb
191122K3_4	250	1.60	NO	40.50	1.000	4.68e6	9.31e5	255	2.0	1.01	bb
191122K3_5	1200	1.59	NO	40.51	1.000	3.01e7	1.20e6	1270	6.0	1.05	bb
191122K3_6	50.0	1.62	NO	40.51	1.000	7.31e5	7.14e5	51.9	3.8	1.02	bb

Compound name: Endosulfan Sulfate

Response Factor: 0.927914
 RRF SD: 0.131348, Relative SD: 14.1552
 Response type: Internal Std (Ref 56), Area * (IS Conc. / IS Area)
 Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
191122K3_1	10.0	1.71	NO	41.70	1.000	9.29e3	4.08e4	12.3	22.7	1.14	bb
191122K3_2	15.0	1.42	NO	41.68	1.000	8.64e3	3.12e4	14.9	-0.5	0.923	MM

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Compound name: Endosulfan Sulfate

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
3	191122K3_3	100	1.53	NO	41.68	1.000	5.68e4	3.91e4	78.3	-21.7	0.726	bb
4	191122K3_4	250	1.56	NO	41.68	1.001	2.62e5	5.52e4	255	2.2	0.948	bb
5	191122K3_5	1200	1.55	NO	41.68	1.000	1.34e6	6.17e4	1170	-2.8	0.902	bb
6	191122K3_6	50.0	1.63	NO	41.68	1.000	3.72e4	4.01e4	50.1	0.2	0.930	bb

Compound name: 4,4'-Methoxychlor

Response Factor: 1.13621
 RRF SD: 0.120265, Relative SD: 10.5847
 Response type: Internal Std (Ref 57), 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	191122K3_1	10.0	6.11	NO	43.56	1.000	1.37e5	5.77e6	10.5	4.7	1.19	MM
2	191122K3_2	15.0	6.05	NO	43.54	1.000	1.31e5	3.86e6	14.9	-0.6	1.13	bb
3	191122K3_3	100	5.74	NO	43.54	1.000	9.61e5	5.32e6	79.5	-20.5	0.903	bb
4	191122K3_4	250	5.84	NO	43.54	1.000	5.14e6	8.68e6	261	4.3	1.19	bb
5	191122K3_5	1200	5.91	NO	43.54	1.000	2.91e7	1.04e7	1230	2.5	1.16	bb
6	191122K3_6	50.0	5.86	NO	43.54	1.000	8.02e5	6.44e6	54.8	9.6	1.25	bb

Compound name: Mirex

Response Factor: 0.932294
 RRF SD: 0.103147, Relative SD: 11.0638
 Response type: Internal Std (Ref 58), 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	191122K3_1	2.00	1.45	NO	44.11	1.000	1.71e4	4.15e5	2.21	10.5	1.03	bb
2	191122K3_2	10.0	1.47	NO	44.11	1.000	5.47e4	3.03e5	9.68	-3.2	0.902	bb
3	191122K3_3	100	1.52	NO	44.09	1.000	5.77e5	3.89e5	79.6	-20.4	0.742	bb
4	191122K3_4	250	1.55	NO	44.09	1.000	2.53e6	5.26e5	258	3.3	0.963	bb
5	191122K3_5	1200	1.53	NO	44.10	1.001	1.20e7	5.25e5	1230	2.1	0.952	bb
6	191122K3_6	50.0	1.53	NO	44.10	1.000	3.71e5	3.69e5	53.9	7.7	1.00	bb

Dataset: U:\VG11.PRO\Results\191122K3\191122K3-CRV.qld

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Compound name: Endrin Aldehyde

Response Factor: 0.886746

RRF SD: 0.101396, Relative SD: 11.4346

Response type: Internal Std (Ref 59), 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 191122K3_1	10.0	0.68	NO	41.10	1.001	1.55e4	7.96e5	11.0	9.8	0.973		MM
2 191122K3_2	15.0	0.61	NO	41.08	1.000	1.53e4	5.73e5	15.1	0.4	0.890		MM
3 191122K3_3	100	0.62	NO	41.08	1.000	1.07e5	7.61e5	79.2	-20.8	0.702		MM
4 191122K3_4	250	0.62	NO	41.08	1.001	5.17e5	1.10e6	264	5.6	0.936		MM
5 191122K3_5	1200	0.63	NO	41.08	1.000	2.58e6	1.26e6	1160	-3.7	0.854		MM
6 191122K3_6	50.0	0.60	NO	41.08	1.000	8.46e4	8.76e5	54.4	8.9	0.965		MM

Compound name: Endrin Ketone

Response Factor: 0.910803

RRF SD: 0.100993, Relative SD: 11.0883

Response type: Internal Std (Ref 60), 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 191122K3_1	10.0	0.69	NO	44.25	1.000	1.08e4	5.15e5	11.5	15.4	1.05		db
2 191122K3_2	15.0	0.67	NO	44.25	1.001	1.03e4	3.77e5	15.0	0.2	0.912		bb
3 191122K3_3	100	0.62	NO	44.23	1.000	7.21e4	4.87e5	81.4	-18.6	0.741		bb
4 191122K3_4	250	0.62	NO	44.23	1.000	3.29e5	7.23e5	250	-0.0	0.911		db
5 191122K3_5	1200	0.62	NO	44.25	1.001	1.73e6	8.08e5	1170	-2.1	0.892		bb
6 191122K3_6	50.0	0.66	NO	44.25	1.001	5.23e4	5.46e5	52.6	5.1	0.958		db

Compound name: 13C6-Hexachlorobenzene

Response Factor: 0.691051

RRF SD: 0.0138932, Relative SD: 2.01044

Response type: Internal Std (Ref 62), 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 191122K3_1	50.0	1.27	NO	22.83	0.873	1.75e6	2.50e6	50.5	0.9	0.697		bb
2 191122K3_2	50.0	1.27	NO	22.83	0.873	1.28e6	1.84e6	50.5	1.1	0.699		bb

Dataset: U:\VG11.PRO\Results\191122K3\191122K3-CRV.qld

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Compound name: 13C6-Hexachlorobenzene

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	191122K3_3	50.0	1.30	NO	22.81	0.873	1.62e6	2.32e6	50.5	1.0	0.698	bb
4	191122K3_4	50.0	1.28	NO	22.81	0.873	2.16e6	3.22e6	48.4	-3.2	0.669	bb
5	191122K3_5	50.0	1.27	NO	22.83	0.873	2.28e6	3.36e6	49.1	-1.8	0.678	bb
6	191122K3_6	50.0	1.28	NO	22.83	0.873	1.56e6	2.21e6	51.0	2.0	0.705	bb

Compound name: 13C6-Alpha-BHC

Response Factor: 0.245718

RRF SD: 0.00506308, Relative SD: 2.06053

Response type: Internal Std (Ref 62), 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	191122K3_1	50.0	0.80	NO	23.37	0.894	6.29e5	2.50e6	51.1	2.3	0.251	bb
2	191122K3_2	50.0	0.79	NO	23.37	0.894	4.52e5	1.84e6	50.1	0.1	0.246	bb
3	191122K3_3	50.0	0.79	NO	23.35	0.894	5.62e5	2.32e6	49.3	-1.3	0.242	bb
4	191122K3_4	50.0	0.79	NO	23.35	0.894	7.66e5	3.22e6	48.3	-3.3	0.238	bb
5	191122K3_5	50.0	0.79	NO	23.35	0.894	8.39e5	3.36e6	50.9	1.7	0.250	bb
6	191122K3_6	50.0	0.78	NO	23.35	0.894	5.46e5	2.21e6	50.3	0.5	0.247	bb

Compound name: 13C6-Lindane (gamma)

Response Factor: 0.189053

RRF SD: 0.0135624, Relative SD: 7.17387

Response type: Internal Std (Ref 62), 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	191122K3_1	50.0	0.80	NO	26.63	1.019	4.71e5	2.50e6	49.7	-0.5	0.188	bb
2	191122K3_2	50.0	0.79	NO	26.63	1.019	3.38e5	1.84e6	48.6	-2.8	0.184	bb
3	191122K3_3	50.0	0.80	NO	26.63	1.019	4.27e5	2.32e6	48.7	-2.7	0.184	bb
4	191122K3_4	50.0	0.83	NO	26.62	1.019	5.83e5	3.22e6	47.9	-4.3	0.181	bb
5	191122K3_5	50.0	0.96	NO	26.63	1.019	7.26e5	3.36e6	57.2	14.4	0.216	MM
6	191122K3_6	50.0	0.80	NO	26.63	1.019	4.01e5	2.21e6	47.9	-4.1	0.181	bb

Dataset: U:\VG11.PRO\Results\191122K3\191122K3-CRV.qld

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Compound name: 13C6-Beta-BHC

Response Factor: 0.140624

RRF SD: 0.00587083, Relative SD: 4.17484

Response type: Internal Std (Ref 62), 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	191122K3_1	50.0	0.79	NO	28.72	1.099	3.60e5	2.50e6	51.1	2.3	0.144	bb
2	191122K3_2	50.0	0.79	NO	28.72	1.099	2.57e5	1.84e6	49.7	-0.7	0.140	bb
3	191122K3_3	50.0	0.78	NO	28.70	1.098	3.21e5	2.32e6	49.2	-1.5	0.138	bb
4	191122K3_4	50.0	0.77	NO	28.70	1.099	4.29e5	3.22e6	47.3	-5.3	0.133	bb
5	191122K3_5	50.0	0.80	NO	28.70	1.098	5.05e5	3.36e6	53.5	6.9	0.150	bb
6	191122K3_6	50.0	0.79	NO	28.70	1.098	3.06e5	2.21e6	49.2	-1.7	0.138	bb

Compound name: 13C6-Delta-BHC

Response Factor: 0.164415

RRF SD: 0.00691987, Relative SD: 4.20877

Response type: Internal Std (Ref 62), 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	191122K3_1	50.0	0.78	NO	30.41	1.163	4.11e5	2.50e6	49.9	-0.2	0.164	bd
2	191122K3_2	50.0	0.78	NO	30.41	1.163	2.98e5	1.84e6	49.2	-1.5	0.162	bb
3	191122K3_3	50.0	0.76	NO	30.41	1.163	3.79e5	2.32e6	49.7	-0.6	0.163	bd
4	191122K3_4	50.0	0.79	NO	30.39	1.164	5.08e5	3.22e6	48.0	-4.1	0.158	bd
5	191122K3_5	50.0	0.79	NO	30.41	1.164	5.97e5	3.36e6	54.1	8.1	0.178	bd
6	191122K3_6	50.0	0.79	NO	30.41	1.163	3.57e5	2.21e6	49.1	-1.7	0.162	bd

Compound name: 13C10-Heptachlor

Response Factor: 0.0769571

RRF SD: 0.00705399, Relative SD: 9.16614

Response type: Internal Std (Ref 62), 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	191122K3_1	50.0	1.30	NO	28.83	1.103	1.79e5	2.50e6	46.5	-7.1	0.0715	bb
2	191122K3_2	50.0	1.28	NO	28.83	1.103	1.29e5	1.84e6	45.7	-8.7	0.0703	bb

Dataset: U:\VG11.PRO\Results\191122K3\191122K3-CRV.qld

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Compound name: 13C10-Heptachlor

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	191122K3_3	50.0	1.34	NO	28.83	1.103	1.69e5	2.32e6	47.4	-5.3	0.0729	bb
4	191122K3_4	50.0	1.29	NO	28.82	1.103	2.49e5	3.22e6	50.2	0.5	0.0773	bb
5	191122K3_5	50.0	1.31	NO	28.83	1.103	2.99e5	3.36e6	57.8	15.6	0.0889	bb
6	191122K3_6	50.0	1.30	NO	28.83	1.103	1.79e5	2.21e6	52.5	4.9	0.0808	bb

Compound name: 13C12-Aldrin

Response Factor: 0.12156
 RRF SD: 0.00388325, Relative SD: 3.19451
 Response type: Internal Std (Ref 62), 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	191122K3_1	50.0	1.64	NO	30.97	1.185	2.98e5	2.50e6	49.0	-2.0	0.119	bb
2	191122K3_2	50.0	1.69	NO	30.97	1.185	2.17e5	1.84e6	48.4	-3.1	0.118	bb
3	191122K3_3	50.0	1.65	NO	30.96	1.185	2.78e5	2.32e6	49.3	-1.5	0.120	bb
4	191122K3_4	50.0	1.62	NO	30.96	1.185	3.86e5	3.22e6	49.3	-1.5	0.120	bb
5	191122K3_5	50.0	1.62	NO	30.96	1.185	4.24e5	3.36e6	52.0	3.9	0.126	bb
6	191122K3_6	50.0	1.67	NO	30.96	1.185	2.80e5	2.21e6	52.1	4.2	0.127	bb

Compound name: 13C10-Oxychlordan

Response Factor: 0.028293
 RRF SD: 0.00241909, Relative SD: 8.55015
 Response type: Internal Std (Ref 62), 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	191122K3_1	50.0	1.53	NO	33.58	1.285	6.62e4	2.50e6	46.7	-6.5	0.0264	bb
2	191122K3_2	50.0	1.57	NO	33.57	1.285	4.83e4	1.84e6	46.4	-7.2	0.0263	db
3	191122K3_3	50.0	1.64	NO	33.57	1.285	6.27e4	2.32e6	47.8	-4.4	0.0270	db
4	191122K3_4	50.0	1.62	NO	33.56	1.285	9.19e4	3.22e6	50.4	0.7	0.0285	bb
5	191122K3_5	50.0	1.64	NO	33.57	1.285	1.10e5	3.36e6	57.9	15.7	0.0327	db
6	191122K3_6	50.0	1.66	NO	33.57	1.285	6.37e4	2.21e6	50.9	1.7	0.0288	db

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Compound name: 13C10-cis-Heptachlor Epoxide

Response Factor: 0.0366273

RRF SD: 0.00327373, Relative SD: 8.93795

Response type: Internal Std (Ref 62), Area * (IS Conc. / IS Area)

Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
191122K3_1	50.0	1.55	NO	34.37	1.315	8.51e4	2.50e6	46.4	-7.2	0.0340	bb
191122K3_2	50.0	1.63	NO	34.37	1.315	6.12e4	1.84e6	45.4	-9.1	0.0333	bb
191122K3_3	50.0	1.67	NO	34.36	1.315	8.22e4	2.32e6	48.4	-3.2	0.0355	bb
191122K3_4	50.0	1.59	NO	34.36	1.316	1.20e5	3.22e6	50.7	1.5	0.0372	bb
191122K3_5	50.0	1.67	NO	34.37	1.315	1.42e5	3.36e6	57.8	15.7	0.0424	bb
191122K3_6	50.0	1.58	NO	34.37	1.315	8.30e4	2.21e6	51.2	2.4	0.0375	bb

Compound name: 13C10-trans-Chlordane (gamma)

Response Factor: 0.0291657

RRF SD: 0.0014922, Relative SD: 5.11629

Response type: Internal Std (Ref 62), Area * (IS Conc. / IS Area)

Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
191122K3_1	50.0	1.70	NO	35.28	1.350	7.10e4	2.50e6	48.6	-2.7	0.0284	bb
191122K3_2	50.0	1.53	NO	35.28	1.350	5.07e4	1.84e6	47.2	-5.5	0.0276	bb
191122K3_3	50.0	1.59	NO	35.26	1.349	6.61e4	2.32e6	48.9	-2.2	0.0285	bb
191122K3_4	50.0	1.80	NO	35.26	1.350	9.72e4	3.22e6	51.7	3.4	0.0302	bb
191122K3_5	50.0	2.22	YES	35.28	1.350	1.33e5	3.36e6	67.8	35.7	0.0396	MMX
191122K3_6	50.0	1.63	NO	35.28	1.350	6.91e4	2.21e6	53.5	7.1	0.0312	bb

Compound name: 13C10-trans-Nonachlor

Response Factor: 0.0333488

RRF SD: 0.0031372, Relative SD: 9.40722

Response type: Internal Std (Ref 62), Area * (IS Conc. / IS Area)

Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
191122K3_1	50.0	1.68	NO	35.47	1.357	7.84e4	2.50e6	46.9	-6.1	0.0313	bb
191122K3_2	50.0	1.59	NO	35.47	1.357	5.59e4	1.84e6	45.6	-8.8	0.0304	bb

Dataset: U:\VG11.PRO\Results\191122K3\191122K3-CRV.qld

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Compound name: 13C10-trans-Nonachlor

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	191122K3_3	50.0	1.64	NO	35.47	1.357	7.50e4	2.32e6	48.5	-2.9	0.0324	bb
4	191122K3_4	50.0	1.65	NO	35.45	1.357	1.09e5	3.22e6	50.5	1.0	0.0337	bb
5	191122K3_5	50.0	1.92	NO	35.47	1.357	1.32e5	3.36e6	58.9	17.8	0.0393	bb
6	191122K3_6	50.0	1.65	NO	35.47	1.357	7.30e4	2.21e6	49.5	-1.0	0.0330	bb

Compound name: 13C9-Endosulfan I (alpha)

Response Factor: 0.0212096
 RRF SD: 0.00156476, Relative SD: 7.37759
 Response type: Internal Std (Ref 62), 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	191122K3_1	50.0	1.70	NO	36.06	1.380	4.94e4	2.50e6	46.6	-6.9	0.0197	bb
2	191122K3_2	50.0	1.68	NO	36.06	1.380	3.65e4	1.84e6	46.8	-6.4	0.0199	bb
3	191122K3_3	50.0	1.61	NO	36.05	1.379	4.83e4	2.32e6	49.1	-1.8	0.0208	bb
4	191122K3_4	50.0	1.68	NO	36.05	1.380	7.53e4	3.22e6	55.1	10.1	0.0234	db
5	191122K3_5	50.0	1.82	NO	36.06	1.380	1.12e5	3.36e6	78.9	57.8	0.0335	dbX
6	191122K3_6	50.0	1.63	NO	36.05	1.379	4.92e4	2.21e6	52.5	4.9	0.0223	db

Compound name: 13C12-2,4'-DDE

Response Factor: 0.763215
 RRF SD: 0.0311614, Relative SD: 4.08291
 Response type: Internal Std (Ref 62), 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	191122K3_1	50.0	1.60	NO	35.95	0.996	1.83e6	2.50e6	48.0	-4.0	0.733	bb
2	191122K3_2	50.0	1.58	NO	35.95	0.996	1.35e6	1.84e6	47.9	-4.1	0.732	bb
3	191122K3_3	50.0	1.59	NO	35.93	0.996	1.75e6	2.32e6	49.4	-1.2	0.754	bb
4	191122K3_4	50.0	1.59	NO	35.93	0.996	2.48e6	3.22e6	50.5	1.0	0.771	bb
5	191122K3_5	50.0	1.61	NO	35.95	0.996	2.60e6	3.36e6	50.8	1.5	0.775	bb
6	191122K3_6	50.0	1.55	NO	35.95	0.996	1.80e6	2.21e6	53.4	6.8	0.815	bb

Dataset: U:\VG11.PRO\Results\191122K3\191122K3-CRV.qld

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Compound name: 13C12-4,4'-DDE

Response Factor: 0.552269

RRF SD: 0.035249, Relative SD: 6.38258

Response type: Internal Std (Ref 62), 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 191122K3_1	50.0	1.60	NO	37.03	1.026	1.33e6	2.50e6	47.9	-4.1	0.530	bb
2 191122K3_2	50.0	1.57	NO	37.03	1.026	9.30e5	1.84e6	45.8	-8.4	0.506	bb
3 191122K3_3	50.0	1.57	NO	37.01	1.026	1.24e6	2.32e6	48.3	-3.3	0.534	bb
4 191122K3_4	50.0	1.59	NO	37.01	1.026	1.81e6	3.22e6	50.7	1.5	0.560	bb
5 191122K3_5	50.0	1.62	NO	37.01	1.025	1.97e6	3.36e6	53.2	6.5	0.588	bb
6 191122K3_6	50.0	1.60	NO	37.03	1.026	1.32e6	2.21e6	53.9	7.8	0.596	bb

Compound name: 13C12-Dieldrin

Response Factor: 0.0749464

RRF SD: 0.00341953, Relative SD: 4.56264

Response type: Internal Std (Ref 62), 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 191122K3_1	50.0	1.62	NO	37.53	1.040	1.83e5	2.50e6	48.8	-2.4	0.0732	bb
2 191122K3_2	50.0	1.60	NO	37.51	1.039	1.30e5	1.84e6	47.3	-5.3	0.0710	bb
3 191122K3_3	50.0	1.60	NO	37.51	1.039	1.68e5	2.32e6	48.4	-3.3	0.0725	bb
4 191122K3_4	50.0	1.56	NO	37.50	1.039	2.44e5	3.22e6	50.4	0.8	0.0756	bb
5 191122K3_5	50.0	1.67	NO	37.51	1.039	2.60e5	3.36e6	51.6	3.2	0.0773	bb
6 191122K3_6	50.0	1.51	NO	37.51	1.039	1.77e5	2.21e6	53.5	7.0	0.0802	bb

Compound name: 13C12-Endrin

Response Factor: 0.0351157

RRF SD: 0.0048337, Relative SD: 13.7651

Response type: Internal Std (Ref 62), 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 191122K3_1	50.0	1.57	NO	38.92	1.078	8.37e4	2.50e6	47.6	-4.8	0.0334	bb
2 191122K3_2	50.0	1.51	NO	38.92	1.078	5.34e4	1.84e6	41.4	-17.3	0.0291	bb

Dataset: U:\VG11.PRO\Results\191122K3\191122K3-CRV.qld

Last Altered: Saturday, November 23, 2019 13:11:31 Pacific Standard Time
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Compound name: 13C12-Endrin

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
3	191122K3_3	50.0	1.52	NO	38.91	1.078	7.32e4	2.32e6	45.0	-10.1	0.0316	bb
4	191122K3_4	50.0	1.58	NO	38.91	1.078	1.24e5	3.22e6	54.6	9.1	0.0383	bb
5	191122K3_5	50.0	1.57	NO	38.92	1.078	1.43e5	3.36e6	60.5	20.9	0.0425	bb
6	191122K3_6	50.0	1.57	NO	38.92	1.078	7.93e4	2.21e6	51.0	2.1	0.0359	bb

Compound name: 13C10-cis-Nonachlor

Response Factor: 0.0389433
 RRF SD: 0.00330138, Relative SD: 8.4774
 Response type: Internal Std (Ref 62), 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	191122K3_1	50.0	1.62	NO	39.22	1.087	9.15e4	2.50e6	46.9	-6.1	0.0366	db
2	191122K3_2	50.0	1.72	NO	39.22	1.087	6.52e4	1.84e6	45.5	-8.9	0.0355	bb
3	191122K3_3	50.0	1.57	NO	39.20	1.086	8.59e4	2.32e6	47.6	-4.8	0.0371	bb
4	191122K3_4	50.0	1.57	NO	39.20	1.087	1.28e5	3.22e6	50.8	1.7	0.0396	bb
5	191122K3_5	50.0	1.82	NO	39.22	1.087	1.49e5	3.36e6	57.1	14.1	0.0444	db
6	191122K3_6	50.0	1.61	NO	39.20	1.086	8.97e4	2.21e6	52.1	4.1	0.0405	db

Compound name: 13C9-Endosulfan II

Response Factor: 0.0111929
 RRF SD: 0.00131655, Relative SD: 11.7624
 Response type: Internal Std (Ref 62), 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	191122K3_1	50.0	1.58	NO	39.95	1.107	2.56e4	2.50e6	45.7	-8.6	0.0102	bb
2	191122K3_2	50.0	1.55	NO	39.95	1.107	1.79e4	1.84e6	43.5	-12.9	0.00975	bb
3	191122K3_3	50.0	1.65	NO	39.93	1.106	2.54e4	2.32e6	48.9	-2.2	0.0109	bb
4	191122K3_4	50.0	1.71	NO	39.93	1.107	4.16e4	3.22e6	57.7	15.4	0.0129	bb
5	191122K3_5	50.0	2.08	YES	39.95	1.107	7.55e4	3.36e6	101	101.0	0.0225	bbX
6	191122K3_6	50.0	1.63	NO	39.95	1.107	2.68e4	2.21e6	54.2	8.4	0.0121	bb

Dataset: U:\VG11.PRO\Results\191122K3\191122K3-CRV.qld

Last Altered: Saturday, November 23, 2019 13:11:31 Pacific Standard Time
 Printed: Saturday, November 23, 2019 13:15:15 Pacific Standard Time

Compound name: 13C12-2,4'-DDD

Response Factor: 0.588296

RRF SD: 0.0732693, Relative SD: 12.4545

Response type: Internal Std (Ref 62), 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	191122K3_1	50.0	1.58	NO	38.17	1.460	1.35e6	2.50e6	45.7	-8.5	0.538	bb
2	191122K3_2	50.0	1.60	NO	38.17	1.460	9.56e5	1.84e6	44.2	-11.6	0.520	bb
3	191122K3_3	50.0	1.57	NO	38.17	1.460	1.25e6	2.32e6	45.8	-8.4	0.539	bb
4	191122K3_4	50.0	1.57	NO	38.15	1.461	1.91e6	3.22e6	50.5	0.9	0.594	bb
5	191122K3_5	50.0	1.49	NO	38.17	1.460	2.40e6	3.36e6	60.7	21.4	0.714	bb
6	191122K3_6	50.0	1.57	NO	38.17	1.460	1.38e6	2.21e6	53.1	6.3	0.625	bb

Compound name: 13C12-2,4'-DDT

Response Factor: 0.370307

RRF SD: 0.066514, Relative SD: 17.9618

Response type: Internal Std (Ref 62), 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	191122K3_1	50.0	1.71	NO	39.29	1.503	7.66e5	2.50e6	41.3	-17.4	0.306	bb
2	191122K3_2	50.0	1.82	NO	39.29	1.503	5.69e5	1.84e6	41.7	-16.5	0.309	bd
3	191122K3_3	50.0	1.81	NO	39.29	1.503	7.82e5	2.32e6	45.6	-8.8	0.338	bd
4	191122K3_4	50.0	1.80	NO	39.28	1.504	1.23e6	3.22e6	51.4	2.7	0.380	bd
5	191122K3_5	50.0	1.82	NO	39.29	1.504	1.60e6	3.36e6	64.4	28.7	0.477	bd
6	191122K3_6	50.0	1.80	NO	39.29	1.503	9.12e5	2.21e6	55.7	11.3	0.412	bd

Compound name: 13C12-4,4'-DDD

Response Factor: 0.473193

RRF SD: 0.075232, Relative SD: 15.8988

Response type: Internal Std (Ref 62), 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	191122K3_1	50.0	1.53	NO	39.43	1.509	1.03e6	2.50e6	43.6	-12.7	0.413	bb
2	191122K3_2	50.0	1.56	NO	39.43	1.509	7.34e5	1.84e6	42.2	-15.6	0.399	db

Dataset: U:\VG11.PRO\Results\191122K3\191122K3-CRV.qld

Last Altered: Saturday, November 23, 2019 13:11:31 Pacific Standard Time
 Printed: Saturday, November 23, 2019 13:15:15 Pacific Standard Time

Compound name: 13C12-4,4'-DDD

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
3	191122K3_3	50.0	1.58	NO	39.41	1.508	9.87e5	2.32e6	45.0	-10.0	0.426	db
4	191122K3_4	50.0	1.59	NO	39.41	1.509	1.57e6	3.22e6	51.4	2.8	0.487	db
5	191122K3_5	50.0	1.59	NO	39.43	1.509	1.99e6	3.36e6	62.7	25.5	0.594	db
6	191122K3_6	50.0	1.55	NO	39.43	1.509	1.15e6	2.21e6	55.0	10.0	0.521	db

Compound name: 13C12-4,4'-DDT

Response Factor: 0.280272

RRF SD: 0.0521512, Relative SD: 18.6074

Response type: Internal Std (Ref 62), 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	191122K3_1	50.0	1.61	NO	40.50	1.550	6.00e5	2.50e6	42.7	-14.5	0.240	bb
2	191122K3_2	50.0	1.57	NO	40.50	1.550	4.15e5	1.84e6	40.2	-19.5	0.226	bb
3	191122K3_3	50.0	1.58	NO	40.48	1.549	5.73e5	2.32e6	44.1	-11.8	0.247	bb
4	191122K3_4	50.0	1.59	NO	40.48	1.550	9.31e5	3.22e6	51.5	3.0	0.289	bb
5	191122K3_5	50.0	1.61	NO	40.50	1.550	1.20e6	3.36e6	63.8	27.6	0.358	bb
6	191122K3_6	50.0	1.58	NO	40.49	1.549	7.14e5	2.21e6	57.6	15.1	0.323	bb

Compound name: 13C9-Endosulfan Sulfate

Response Factor: 0.0172919

RRF SD: 0.000800626, Relative SD: 4.63007

Response type: Internal Std (Ref 62), 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	191122K3_1	50.0	1.50	NO	41.68	1.155	4.08e4	2.50e6	47.1	-5.8	0.0163	bb
2	191122K3_2	50.0	1.61	NO	41.67	1.154	3.12e4	1.84e6	49.1	-1.9	0.0170	bb
3	191122K3_3	50.0	1.59	NO	41.67	1.154	3.91e4	2.32e6	48.8	-2.5	0.0169	bb
4	191122K3_4	50.0	1.58	NO	41.65	1.155	5.52e4	3.22e6	49.5	-0.9	0.0171	bb
5	191122K3_5	50.0	1.49	NO	41.67	1.154	6.17e4	3.36e6	53.2	6.3	0.0184	bb
6	191122K3_6	50.0	1.55	NO	41.67	1.154	4.01e4	2.21e6	52.4	4.8	0.0181	bb

Dataset: U:\VG11.PRO\Results\191122K3\191122K3-CRV.qld

Last Altered: Saturday, November 23, 2019 13:11:31 Pacific Standard Time
 Printed: Saturday, November 23, 2019 13:15:15 Pacific Standard Time

Compound name: 13C12-Methoxychlor

Response Factor: 0.256829

RRF SD: 0.0396347, Relative SD: 15.4323

Response type: Internal Std (Ref 62), 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	191122K3_1	500	19.14	NO	43.54	1.206	5.77e6	2.50e6	448	-10.3	0.230	bb
2	191122K3_2	500	18.40	NO	43.54	1.206	3.86e6	1.84e6	409	-18.2	0.210	bb
3	191122K3_3	500	20.03	NO	43.52	1.206	5.32e6	2.32e6	447	-10.6	0.229	bb
4	191122K3_4	500	20.30	NO	43.52	1.206	8.68e6	3.22e6	524	4.8	0.269	bb
5	191122K3_5	500	21.86	NO	43.52	1.206	1.04e7	3.36e6	605	20.9	0.311	bb
6	191122K3_6	500	21.35	NO	43.52	1.206	6.44e6	2.21e6	567	13.4	0.291	bb

Compound name: 13C10-Mirex

Response Factor: 0.164142

RRF SD: 0.0040543, Relative SD: 2.46999

Response type: Internal Std (Ref 62), 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	191122K3_1	50.0	1.60	NO	44.09	1.222	4.15e5	2.50e6	50.5	0.9	0.166	bd
2	191122K3_2	50.0	1.58	NO	44.09	1.222	3.03e5	1.84e6	50.2	0.4	0.165	bb
3	191122K3_3	50.0	1.58	NO	44.07	1.221	3.89e5	2.32e6	51.1	2.1	0.168	dd
4	191122K3_4	50.0	1.59	NO	44.07	1.222	5.26e5	3.22e6	49.7	-0.5	0.163	bb
5	191122K3_5	50.0	1.58	NO	44.07	1.221	5.25e5	3.36e6	47.7	-4.6	0.157	bb
6	191122K3_6	50.0	1.56	NO	44.09	1.222	3.69e5	2.21e6	50.9	1.7	0.167	bb

Compound name: 13C12-Endrin Aldehyde

Response Factor: 0.0345209

RRF SD: 0.00335726, Relative SD: 9.7253

Response type: Internal Std (Ref 62), 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	191122K3_1	500	0.47	NO	41.07	1.138	7.96e5	2.50e6	460	-7.9	0.0318	bd
2	191122K3_2	500	0.50	NO	41.07	1.138	5.73e5	1.84e6	451	-9.7	0.0312	bd

Dataset: U:\VG11.PRO\Results\191122K3\191122K3-CRV.qld

Last Altered: Saturday, November 23, 2019 13:11:31 Pacific Standard Time
 Printed: Saturday, November 23, 2019 13:15:15 Pacific Standard Time

Compound name: 13C12-Endrin Aldehyde

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
3	191122K3_3	500	0.51	NO	41.07	1.138	7.61e5	2.32e6	476	-4.9	0.0328	bd
4	191122K3_4	500	0.52	NO	41.05	1.138	1.10e6	3.22e6	496	-0.7	0.0343	bd
5	191122K3_5	500	0.55	NO	41.07	1.138	1.26e6	3.36e6	542	8.5	0.0375	bd
6	191122K3_6	500	0.47	NO	41.07	1.138	8.76e5	2.21e6	574	14.8	0.0396	bd

Compound name: 13C12-Endrin Ketone

Response Factor: 0.0222061

RRF SD: 0.00182806, Relative SD: 8.23224

Response type: Internal Std (Ref 62), 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	191122K3_1	500	0.49	NO	44.23	1.225	5.15e5	2.50e6	463	-7.4	0.0206	bb
2	191122K3_2	500	0.51	NO	44.22	1.225	3.77e5	1.84e6	462	-7.6	0.0205	bb
3	191122K3_3	500	0.49	NO	44.22	1.225	4.87e5	2.32e6	473	-5.5	0.0210	bb
4	191122K3_4	500	0.49	NO	44.22	1.225	7.23e5	3.22e6	505	1.0	0.0224	bb
5	191122K3_5	500	0.52	NO	44.22	1.225	8.08e5	3.36e6	542	8.3	0.0241	db
6	191122K3_6	500	0.50	NO	44.22	1.225	5.46e5	2.21e6	556	11.2	0.0247	bb

Compound name: 13C-PCB-15

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 62), 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	191122K3_1	50.0	1.57	NO	26.13	1.000	2.50e6	2.50e6	50.0	0.0	1.00	bb
2	191122K3_2	50.0	1.56	NO	26.13	1.000	1.84e6	1.84e6	50.0	0.0	1.00	bb
3	191122K3_3	50.0	1.58	NO	26.13	1.000	2.32e6	2.32e6	50.0	0.0	1.00	bb
4	191122K3_4	50.0	1.56	NO	26.12	1.000	3.22e6	3.22e6	50.0	0.0	1.00	bb
5	191122K3_5	50.0	1.56	NO	26.13	1.000	3.36e6	3.36e6	50.0	0.0	1.00	bb
6	191122K3_6	50.0	1.57	NO	26.13	1.000	2.21e6	2.21e6	50.0	0.0	1.00	bb

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

Printed: Saturday, November 23, 2019 13:17:35 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1699rrt-11-21-19.mdb 21 Nov 2019 11:39:32

Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-11-22-19-LIMITEDB.cdb 23 Nov 2019 13:11:31

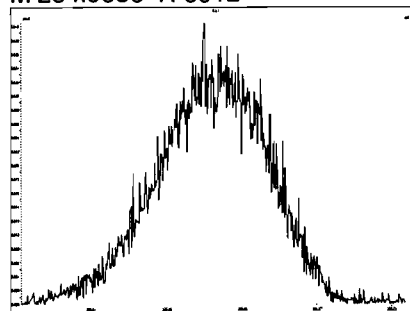
Compound name: Hexachlorobutadiene

	Name	ID	Acq.Date	Acq.Time
1	191122K3_1	ST191122K3-1 1699 CS1 19H0202	22-Nov-19	16:01:15
2	191122K3_2	ST191122K3-2 1699 CS2 19H0203	22-Nov-19	16:51:16
3	191122K3_3	ST191122K3-3 1699 CS3.5 19H0205	22-Nov-19	17:37:57
4	191122K3_4	ST191122K3-4 1699 CS4 19H0206	22-Nov-19	18:28:36
5	191122K3_5	ST191122K3-5 1699 CS5 19H0207	22-Nov-19	19:17:45
6	191122K3_6	ST191122K3-6 1699 CS3 19H0204	22-Nov-19	20:06:28
7	191122K3_7	SS191122K3-1 1699 SS 19H0208	22-Nov-19	20:56:01
8	191122K3_8	GC191122K3-1 GC BREAK	22-Nov-19	21:45:34
9	191122K3_9	B9K0146-BS1 OPR 1	22-Nov-19	22:36:26
10	191122K3_10	B9K0170-BS1 OPR 1	22-Nov-19	23:25:35
11	191122K3_11	SOLVENT BLANK	23-Nov-19	00:14:13
12	191122K3_12	B9K0146-BLK1 Method Blank 1	23-Nov-19	01:03:46
13	191122K3_13	B9K0170-BLK1 Method Blank 1	23-Nov-19	01:54:28
14	191122K3_14	1904016-01 PDI-FB-1911121146 1	23-Nov-19	02:43:38
15	191122K3_15	1904016-02 PDI-RB-1911120944 1	23-Nov-19	03:32:14
16	191122K3_16	1904021-02 PDI-142RAB-00-10-191112 1	23-Nov-19	04:21:41
17	191122K3_17	1904021-03 PDI-142RAB-10-20-191112 1	23-Nov-19	05:11:17
18	191122K3_18	1904021-05 PDI-144RAB-00-10-191113 1	23-Nov-19	06:00:48
19	191122K3_19	1904021-06 PDI-144RAB-10-20-191113 1	23-Nov-19	06:51:35
20	191122K3_20	1904021-07 PDI-144RAB-20-29-191113 1	23-Nov-19	07:40:46

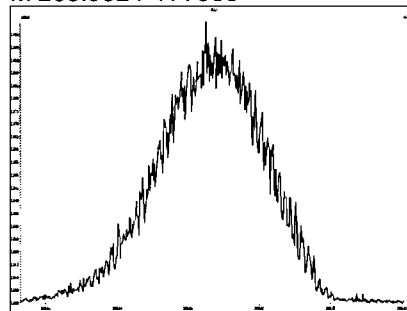
File: Experiment: 1699_ZB50_10K.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Friday, November 22, 2019 15:57:51 Pacific Standard Time

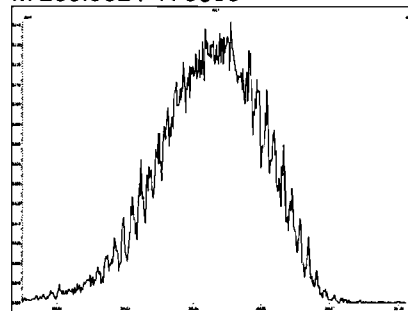
M 254.9856 R 8012



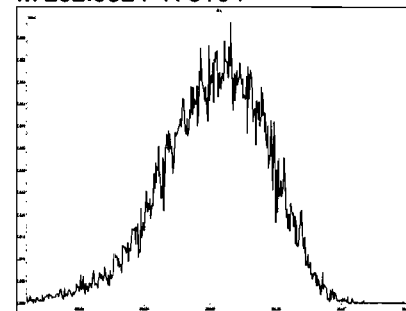
M 268.9824 R 7933



M 280.9824 R 8038



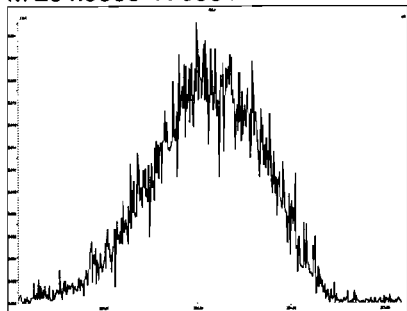
M 292.9824 R 8194



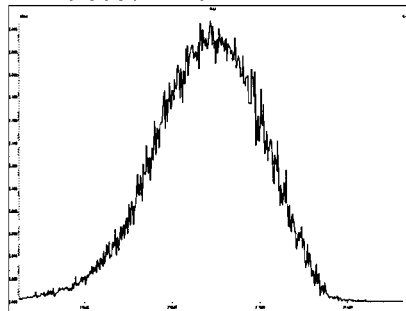
File: Experiment: 1699_ZB50_10K.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Friday, November 22, 2019 15:58:24 Pacific Standard Time

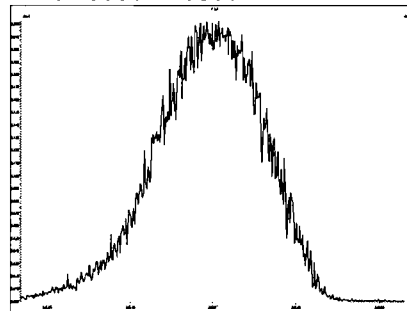
M 204.9888 R 8304



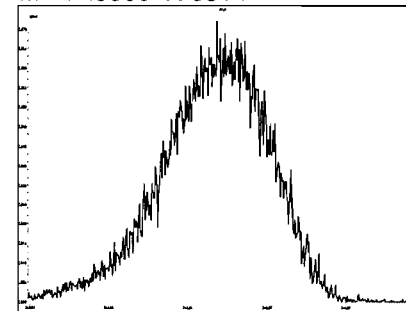
M 218.9856 R 7812



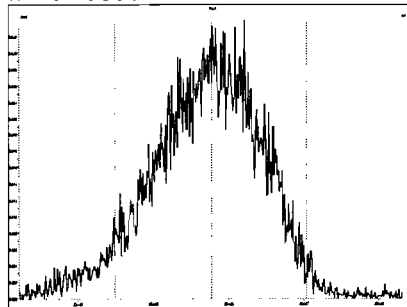
M 230.9856 R 8036



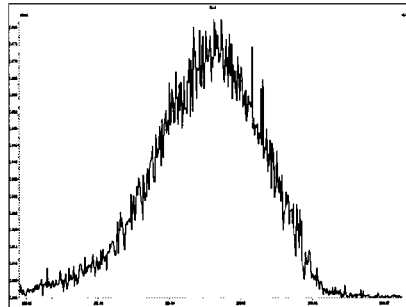
M 242.9856 R 8014



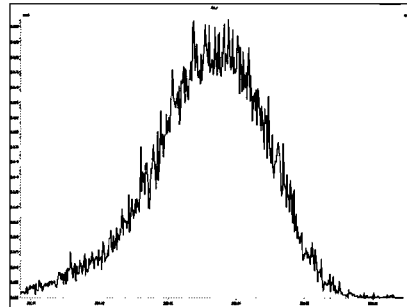
M 254.9856 R 8142



M 268.9824 R 7647



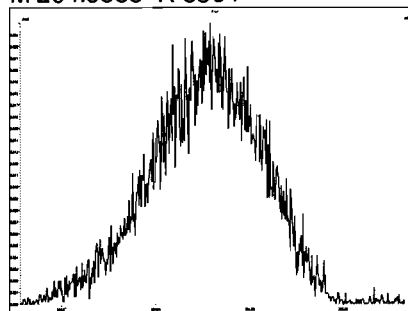
M 280.9824 R 7221



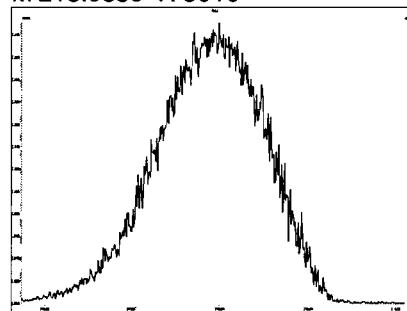
File: Experiment: 1699_ZB50_10K.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Friday, November 22, 2019 15:59:03 Pacific Standard Time

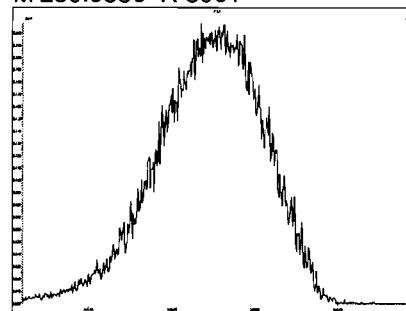
M 204.9888 R 8564



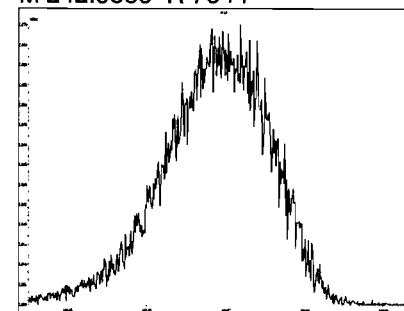
M 218.9856 R 8010



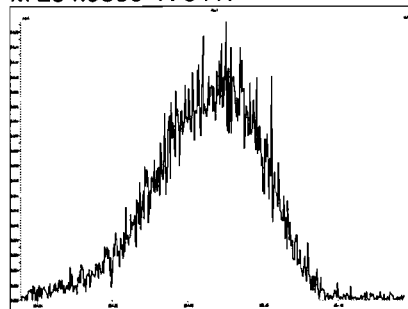
M 230.9856 R 8091



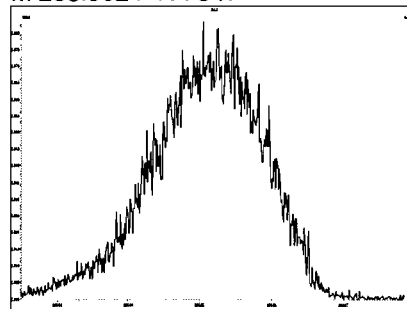
M 242.9856 R 7644



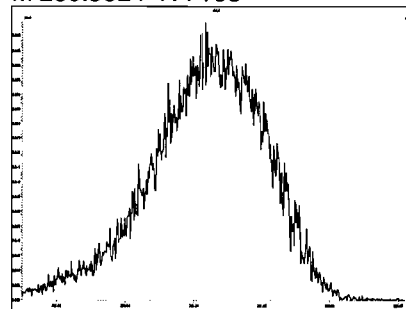
M 254.9856 R 8417



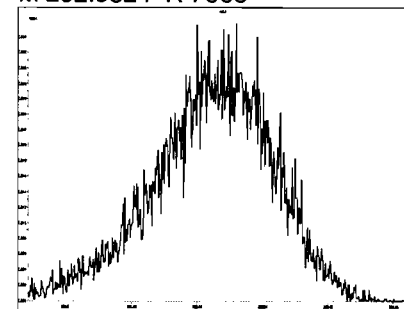
M 268.9824 R 7647



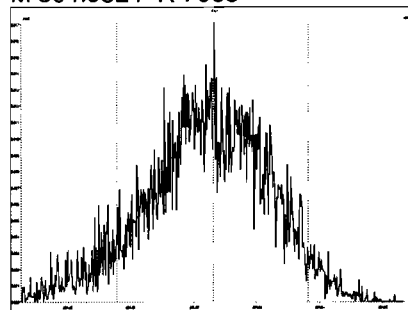
M 280.9824 R 7163



M 292.9824 R 7005



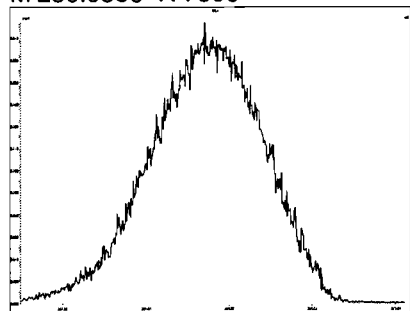
M 304.9824 R 7083



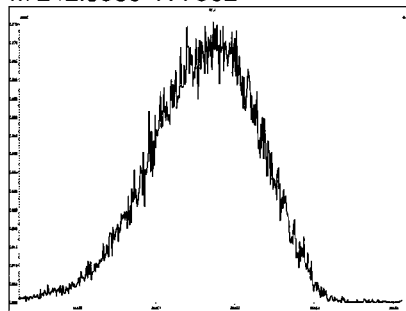
File: Experiment: 1699_ZB50_10K.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Friday, November 22, 2019 16:00:02 Pacific Standard Time

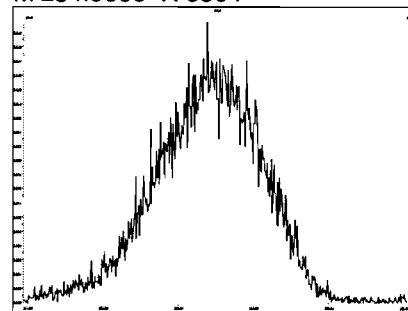
M 230.9856 R 7396



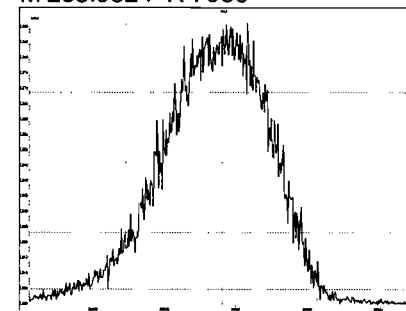
M 242.9856 R 7862



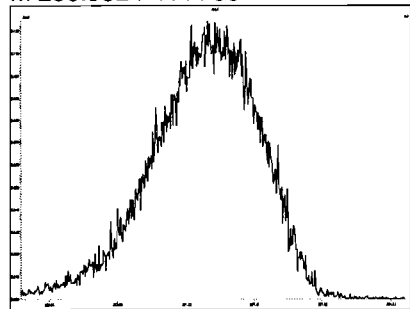
M 254.9856 R 8304



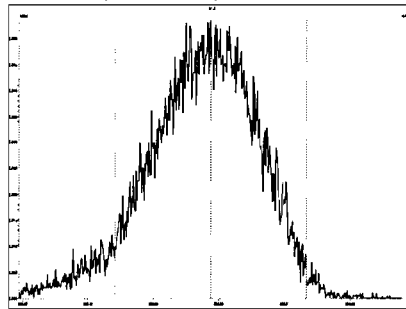
M 268.9824 R 7986



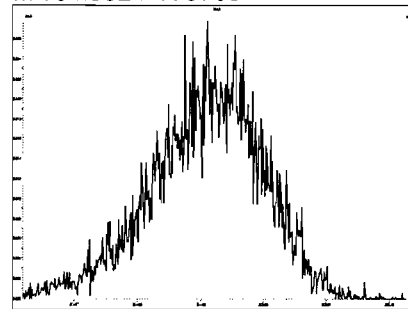
M 280.9824 R 7766



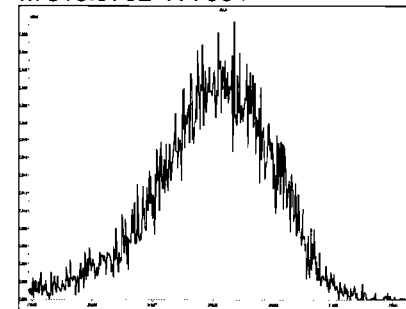
M 292.9824 R 7937



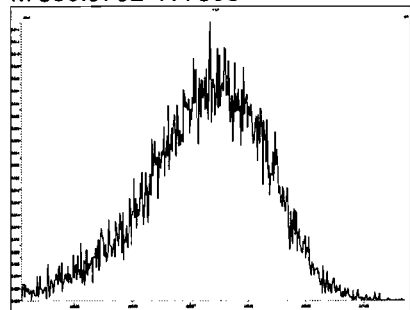
M 304.9824 R 8709



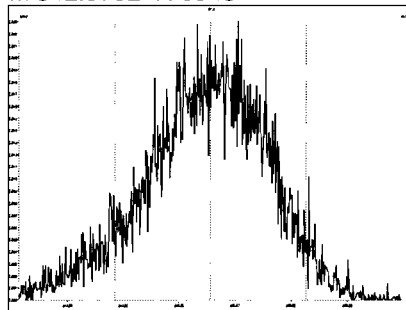
M 318.9792 R 7884



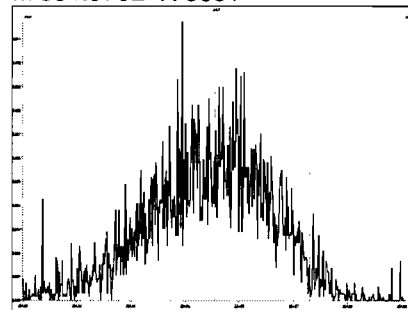
M 330.9792 R 7396



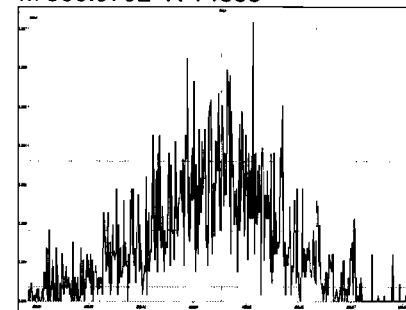
M 342.9792 R 6943



M 354.9792 R 8681



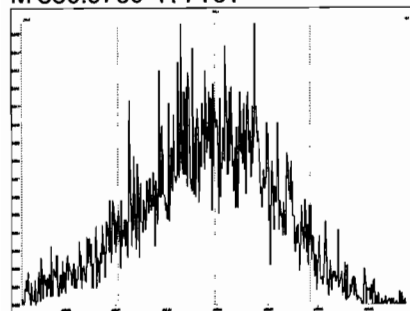
M 366.9792 R 14533



File: Experiment: 1699_ZB50_10K.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Friday, November 22, 2019 16:00:02 Pacific Standard Time

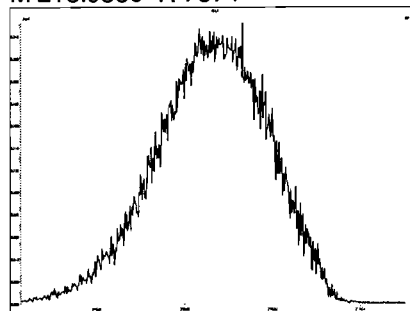
M 380.9760 R 7161



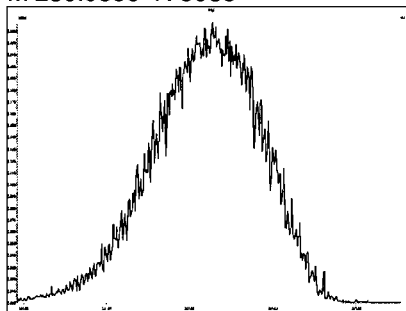
File: Experiment: 1699_ZB50_10K.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Friday, November 22, 2019 16:00:42 Pacific Standard Time

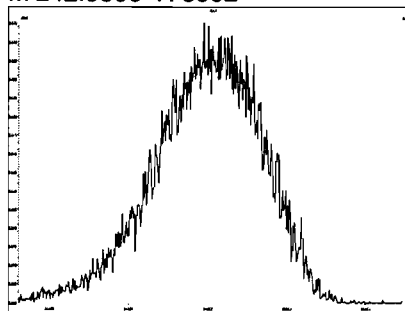
M 218.9856 R 7374



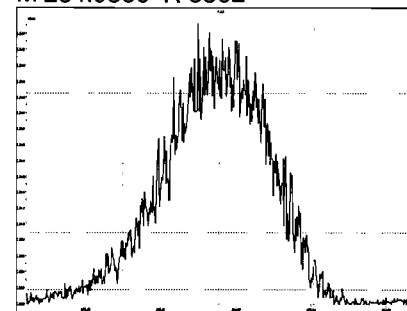
M 230.9856 R 8038



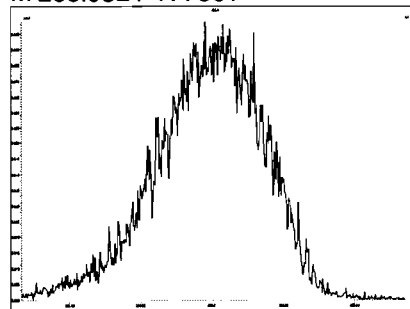
M 242.9856 R 8562



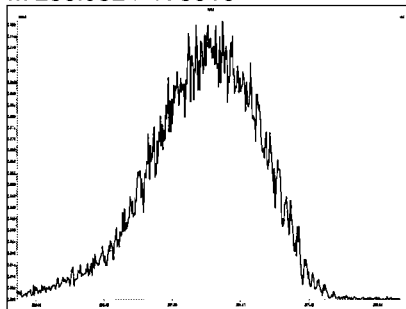
M 254.9856 R 8362



M 268.9824 R 7861



M 280.9824 R 8010



Dataset: Untitled

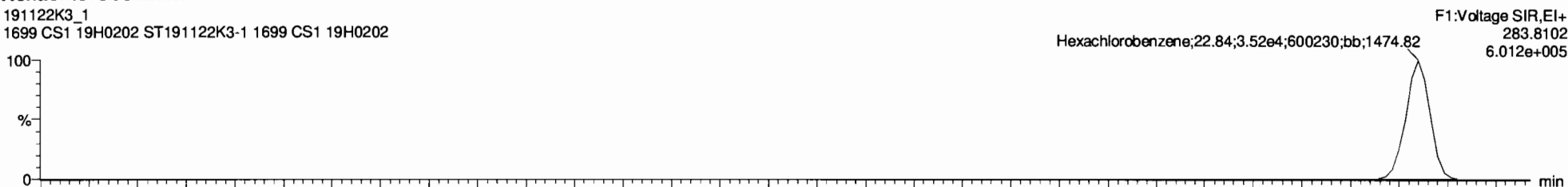
Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1699rrt-11-21-19.mdb 21 Nov 2019 11:39:32
Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-11-22-19-LIMITEDB.cdb 23 Nov 2019 13:11:31

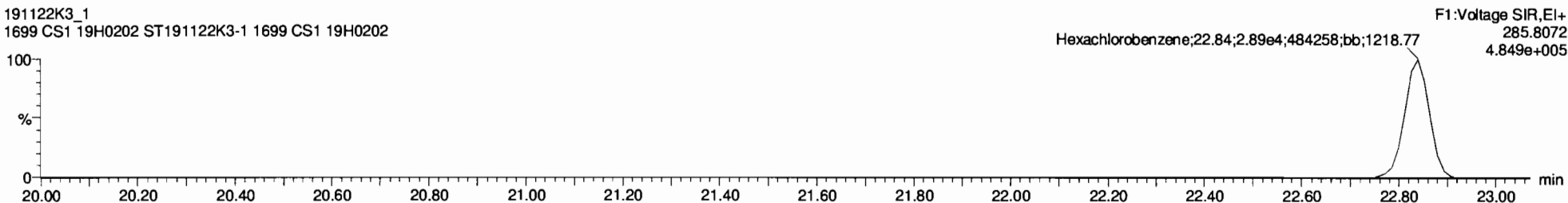
Name: 191122K3_1, Date: 22-Nov-2019, Time: 16:01:15, ID: ST191122K3-1 1699 CS1 19H0202, Description: 1699 CS1 19H0202

Hexachlorobenzene

191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

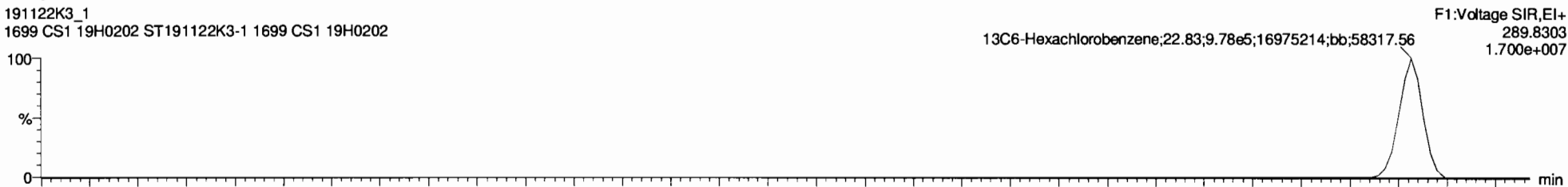


191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

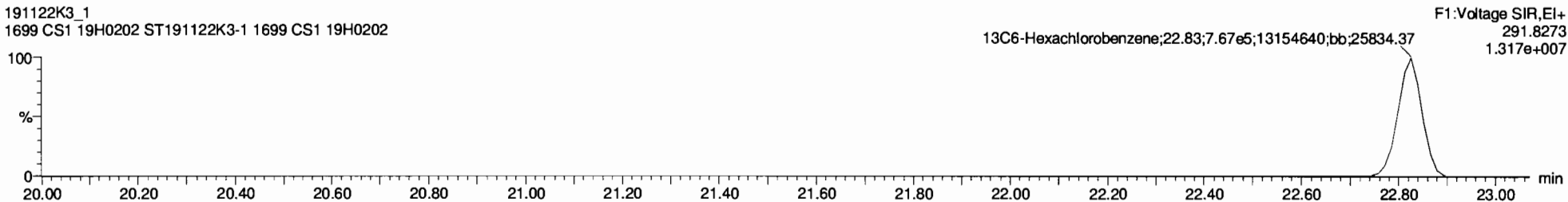


13C6-Hexachlorobenzene

191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202



191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

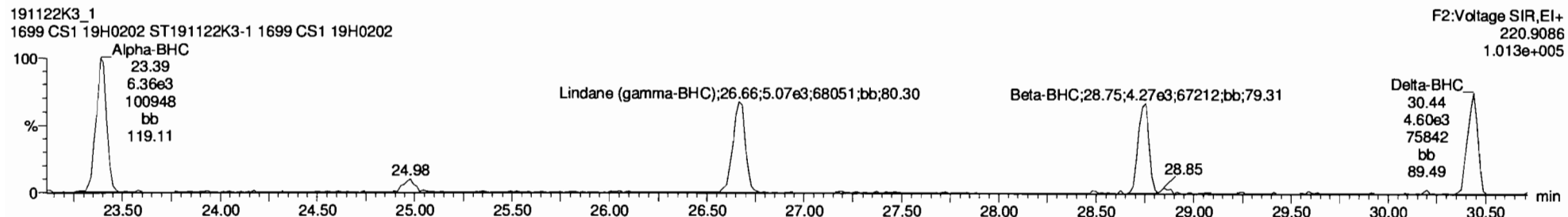
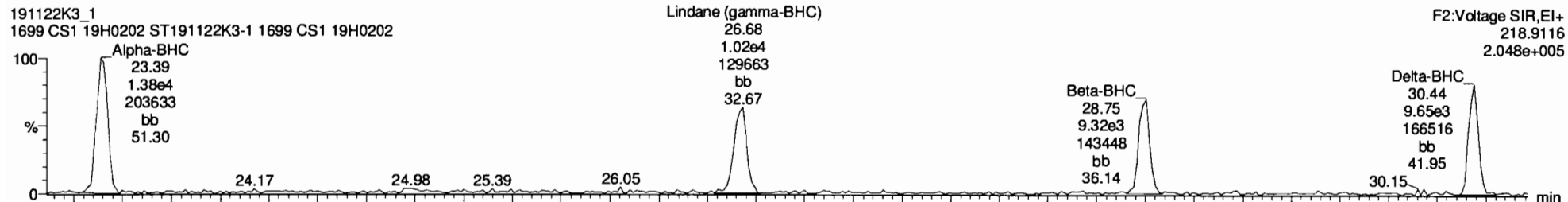


Dataset: Untitled

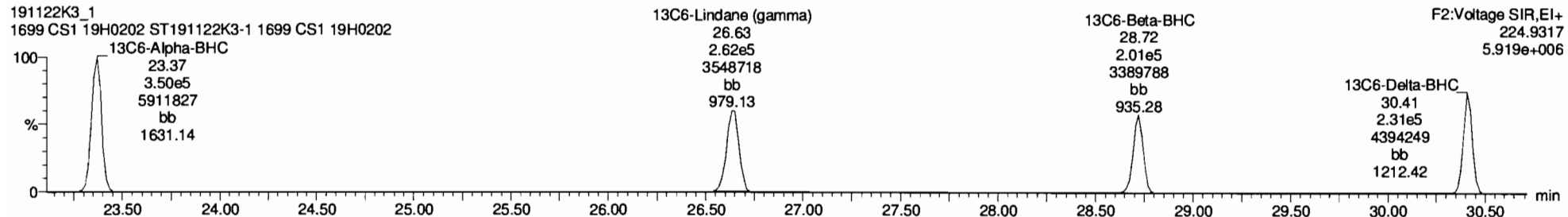
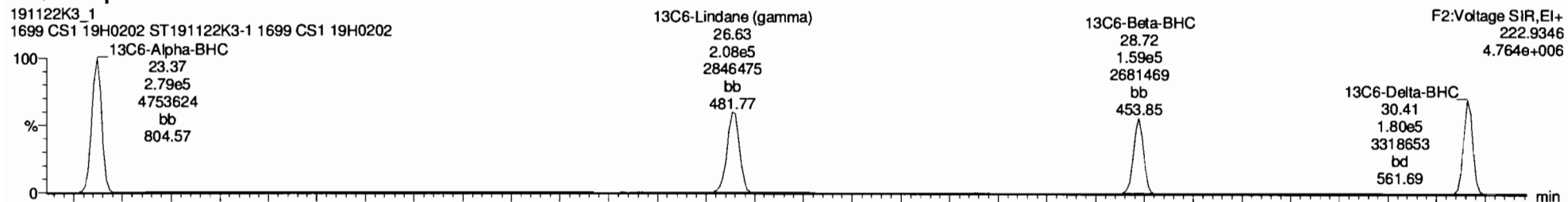
Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_1, Date: 22-Nov-2019, Time: 16:01:15, ID: ST191122K3-1 1699 CS1 19H0202, Description: 1699 CS1 19H0202

BHC Totals



BHC-isotopes



Dataset: Untitled

Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_1, Date: 22-Nov-2019, Time: 16:01:15, ID: ST191122K3-1 1699 CS1 19H0202, Description: 1699 CS1 19H0202

Heptachlor

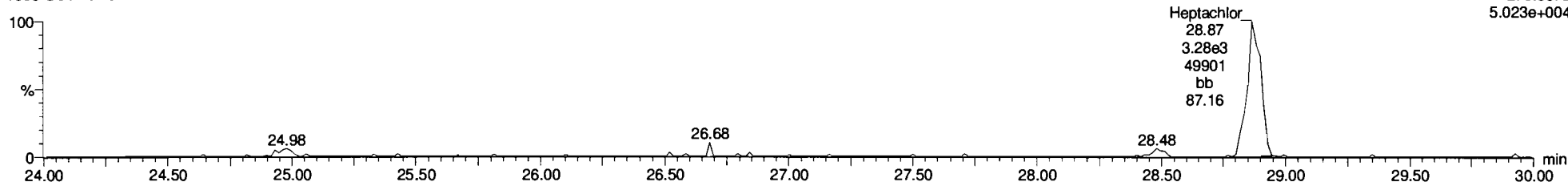
191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

F2:Voltage SIR,EI+
271.8102
6.188e+004



191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

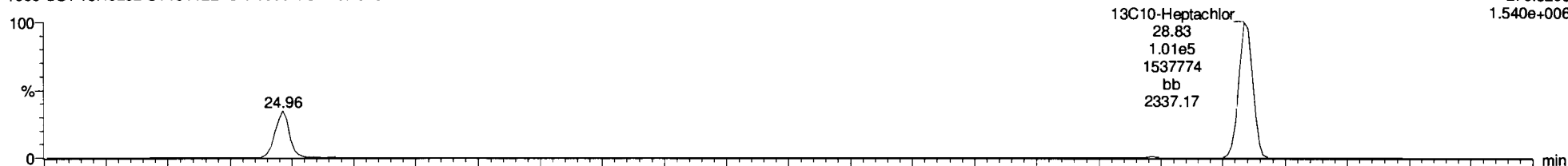
F2:Voltage SIR,EI+
273.8072
5.023e+004



13C10-Heptachlor

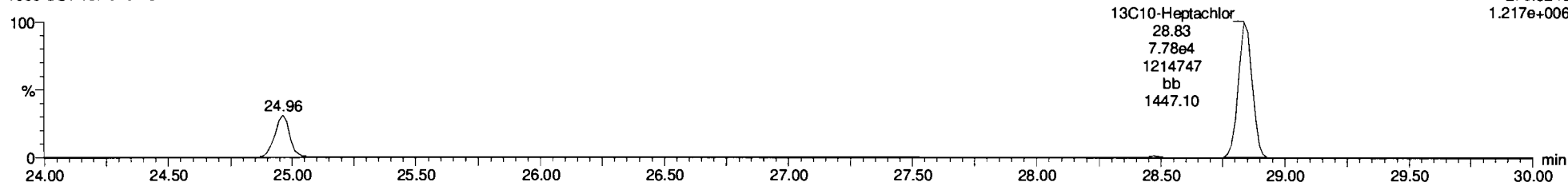
191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

F2:Voltage SIR,EI+
276.8269
1.540e+006



191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

F2:Voltage SIR,EI+
278.8240
1.217e+006



Dataset: Untitled

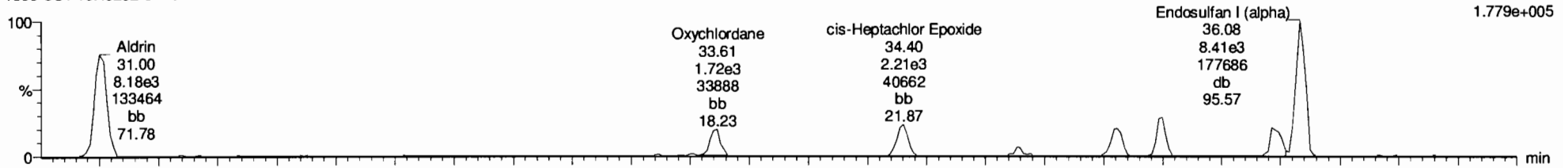
Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_1, Date: 22-Nov-2019, Time: 16:01:15, ID: ST191122K3-1 1699 CS1 19H0202, Description: 1699 CS1 19H0202

Aldrin-EI

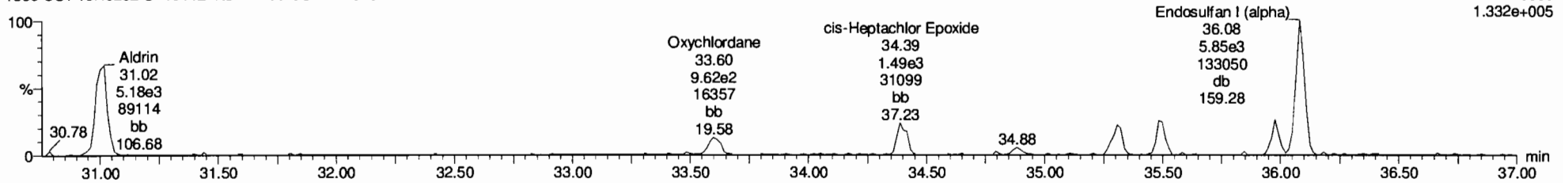
191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

F3:Voltage SIR,EI+
262.8569
1.779e+005



191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

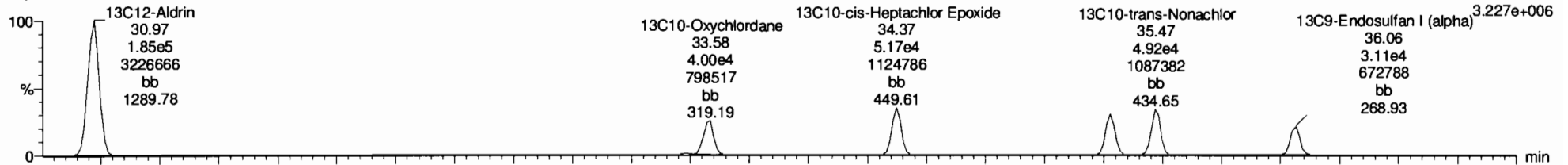
F3:Voltage SIR,EI+
264.8550
1.332e+005



Aldrin-EI-isotopes

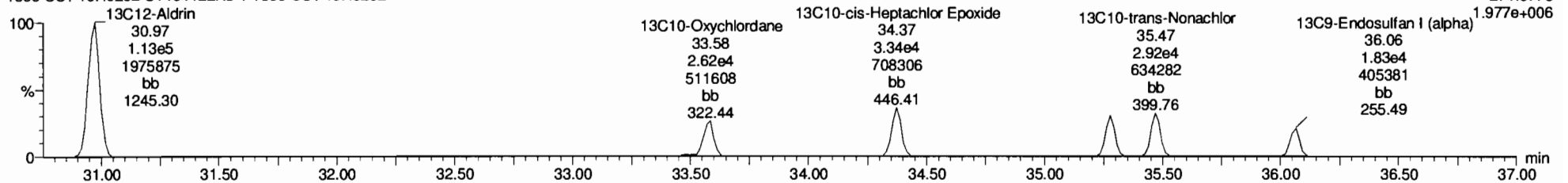
191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

F3:Voltage SIR,EI+
269.8804
3.227e+006

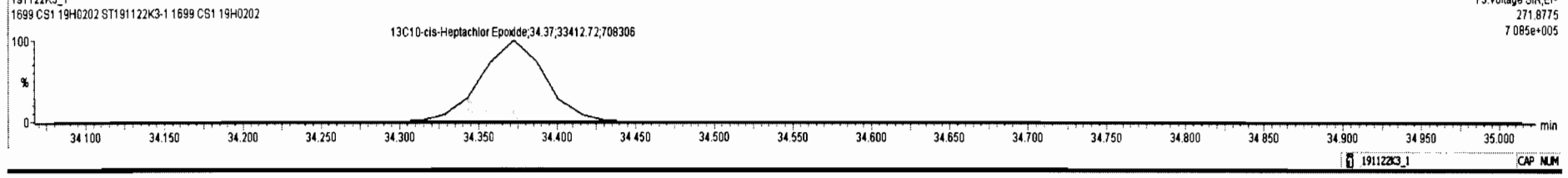
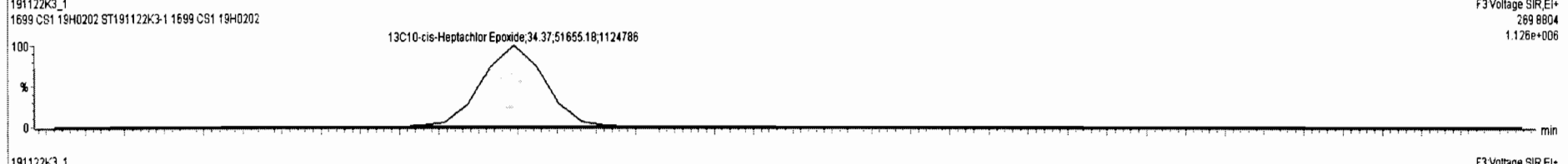
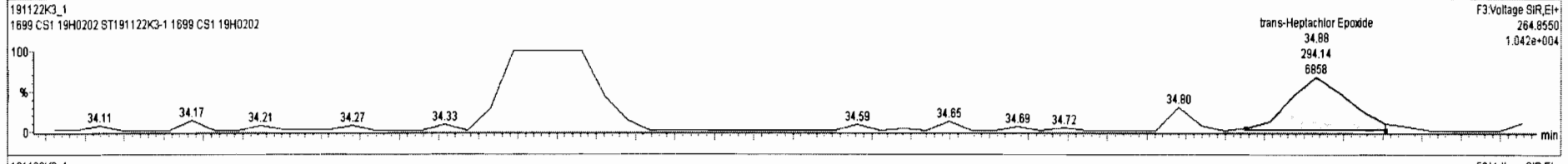
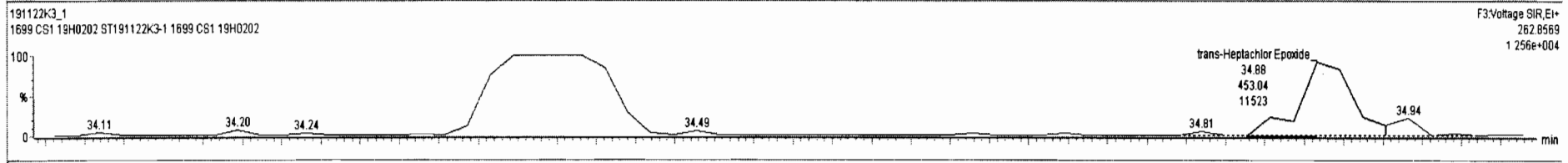


191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

F3:Voltage SIR,EI+
271.8775
1.977e+006



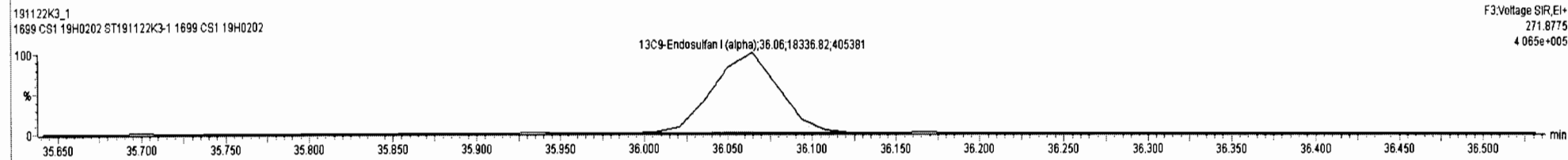
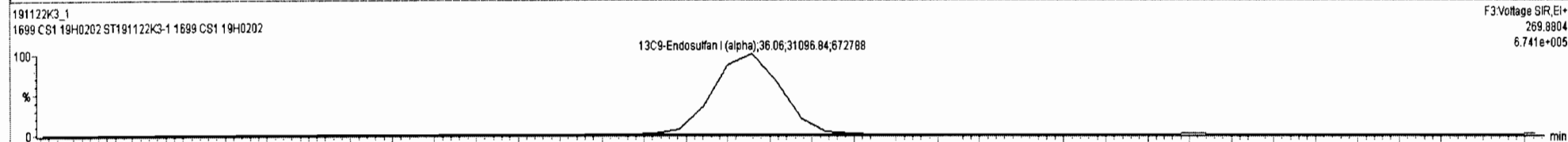
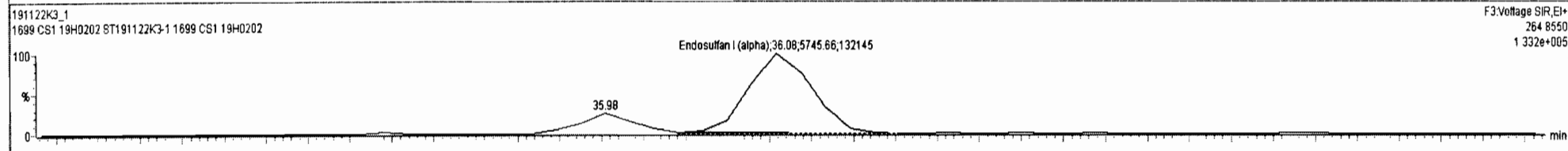
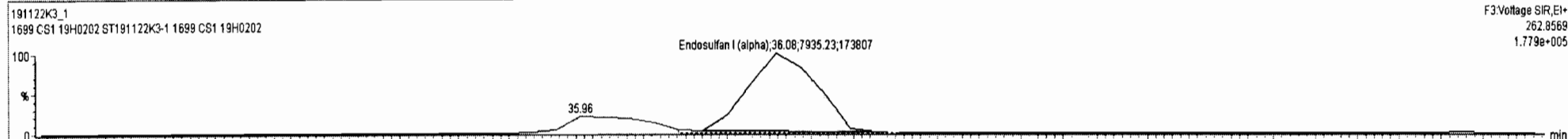
#	Name	RT	RA	yh	Area	S Area	Std. Conc	%Dev	%RSD	RFI	RFI SD
1	Hexachlorobutadiene	10.23	0.054	YES	5.7688e4	3.4107e6	10.000	371.5	185	0.179	0.332
2	Hexachlorobenzene	22.84	1.218	NO	6.4119e4	1.7455e6	2.000	5.0	9.56	0.874	0.0636
3	Alpha-BHC	23.39	2.162	NO	2.0117e4	6.2896e5	2.000	5.1	9.29	0.760	0.0708
4	Lindane (gamma-BHC)	26.88	2.015	NO	1.5298e4	4.7065e5	2.000	9.3	10.7	0.744	0.0799
5	Beta-BHC	28.75	2.183	NO	1.3595e4	3.5998e5	2.000	5.4	9.61	0.896	0.0861
6	Delta-BHC	30.44	2.098	NO	1.4252e4	4.1089e5	2.000	3.6	9.98	0.837	0.0835
7	Heptachlor	28.86	1.204	NO	7.2238e3	1.791e5	2.000	4.3	10.0	0.968	0.0968
8	4,4'-DDNU	30.36	2.960	NO	2.2211e4	4.1089e5	2.000	6.7	11.3	1.27	0.143
9	Aldrin	31.00	1.580	NO	1.3357e4	2.9809e5	2.000	9.4	9.91	1.02	0.101
10	Oxychlorane	33.81	1.785	NO	2.6791e3	6.6194e4	2.000	2.0	9.31	0.992	0.0924
11	cis-Heptachlor Epoxide	34.40	1.488	NO	3.7015e3	8.5068e4	2.000	8.5	10.4	1.00	0.104
12	trans-Heptachlor Epoxide	34.88	1.540	NO	7.4718e2	8.5788e4	2.000	-13.9	11.8	0.255	0.0297
13	trans-Chlordane (gamma)	35.31	1.410	NO	3.4530e3	7.1012e4	2.000	12.2	13.1	1.08	0.142
14	trans-Nonachlor	35.50	1.555	NO	3.7510e3	7.8362e4	2.000	19.4	14.4	1.00	0.144
15	cis-Chlordane	35.96	1.560	NO	3.2583e3	7.8362e4	2.000	6.0	12.3	0.981	0.121
16	Endosulfan I (alpha)	36.08	1.381	NO	1.3881e4	4.9434e4	10.000	25.2	19.7	1.10	0.217





191122K3_1 ST191122K3-1 1699 CS1 19H0202 1699 CS1 19H0202

#	F. Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	Hexachlorobutadiene	10.23	0.054	YES	5.7668e4	3.4107e6	10.000	371.5	185	0.179	0.332
2	Hexachlorobenzene	22.84	1.218	NO	6.4119e4	1.7455e6	2.000	5.0	9.56	0.874	0.0836
3	Alpha-BHC	23.39	2.162	NO	2.0117e4	6.2896e5	2.000	5.1	9.29	0.760	0.0706
4	Lindane (gamma-BHC)	26.68	2.015	NO	1.5299e4	4.7065e5	2.000	9.3	10.7	0.744	0.0799
5	Beta-BHC	28.75	2.183	NO	1.3595e4	3.5998e5	2.000	5.4	9.61	0.896	0.0861
6	Delta-BHC	30.44	2.098	NO	1.4252e4	4.1089e5	2.000	3.6	9.98	0.837	0.0835
7	Heptachlor	28.86	1.204	NO	7.2238e3	1.7901e5	2.000	4.3	10.0	0.968	0.0968
8	4,4'-DDNU	30.36	2.960	NO	2.2211e4	4.1089e5	2.000	6.7	11.3	1.27	0.143
9	Aldrin	31.00	1.580	NO	1.3357e4	2.9808e5	2.000	9.4	9.91	1.02	0.101
10	Oxychlorane	33.61	1.785	NO	2.6791e3	6.6194e4	2.000	2.0	9.31	0.992	0.0924
11	cis-Heptachlor Epoxide	34.40	1.488	NO	3.7015e3	8.5068e4	2.000	8.5	10.4	1.00	0.104
12	trans-Heptachlor Epoxide	34.88	1.540	NO	7.4718e2	8.5068e4	2.000	-13.9	11.6	0.255	0.0297
13	trans-Chlordane (gamma)	35.31	1.410	NO	3.4530e3	7.1012e4	2.000	12.2	13.1	1.08	0.142
14	trans-Nonachlor	35.50	1.555	NO	3.7510e3	7.8362e4	2.000	19.4	14.4	1.00	0.144
15	cis-Chlordane	35.96	1.580	NO	3.2583e3	7.8362e4	2.000	6.0	12.3	0.981	0.121
16	Endosulfan I (alpha)	36.08	1.381	NO	1.3681e4	4.9434e4	10.000	25.2	19.7	1.10	0.217
17	Endosulfan I (beta)	36.74	2.173	NO	4.0927e4	1.4920e5	2.000	9.1	11.9	0.617	0.0897



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Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

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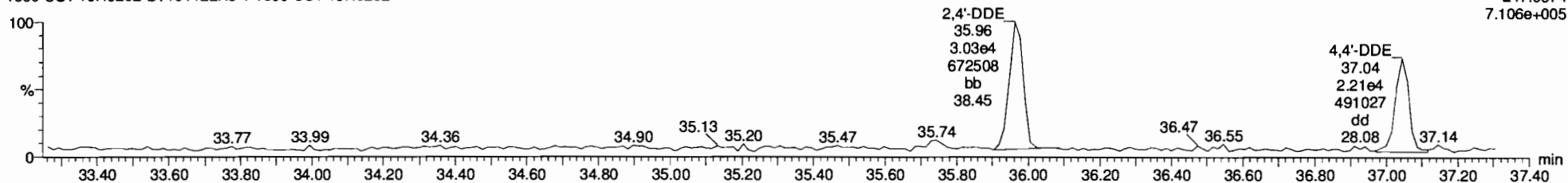
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F3:Voltage SIR,El+
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DDE-isotopes

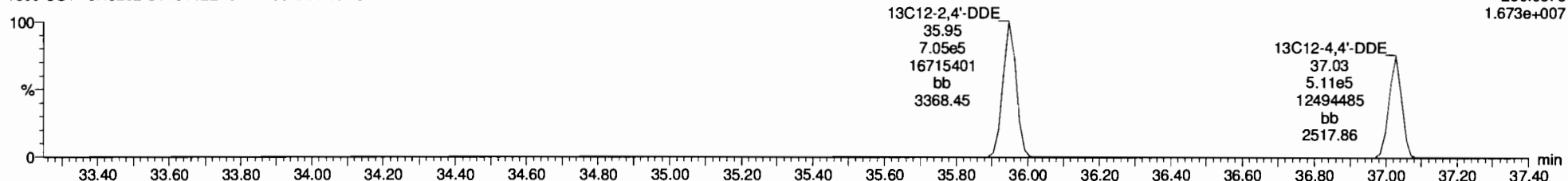
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F3:Voltage SIR,El+
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2.650e+007



191122K3_1
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F3:Voltage SIR,El+
260.0376
1.673e+007

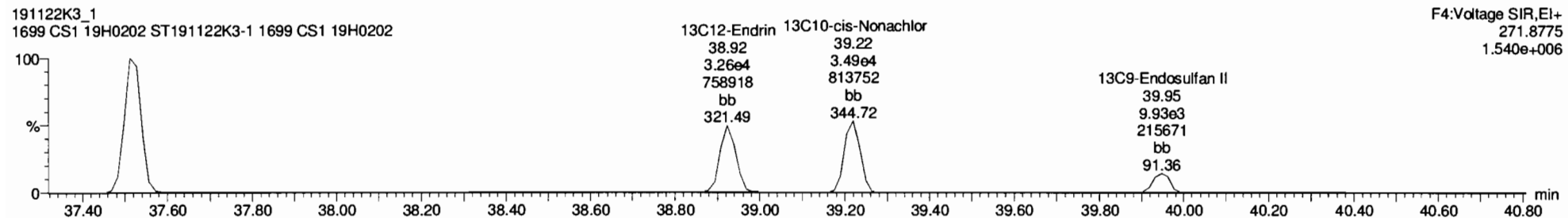
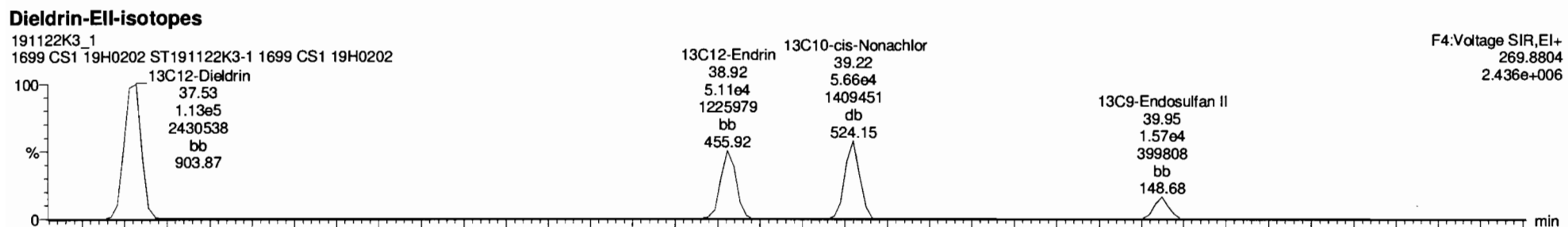
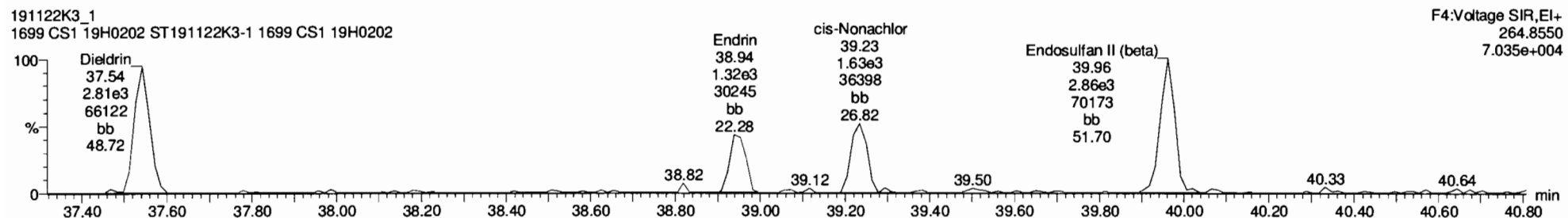
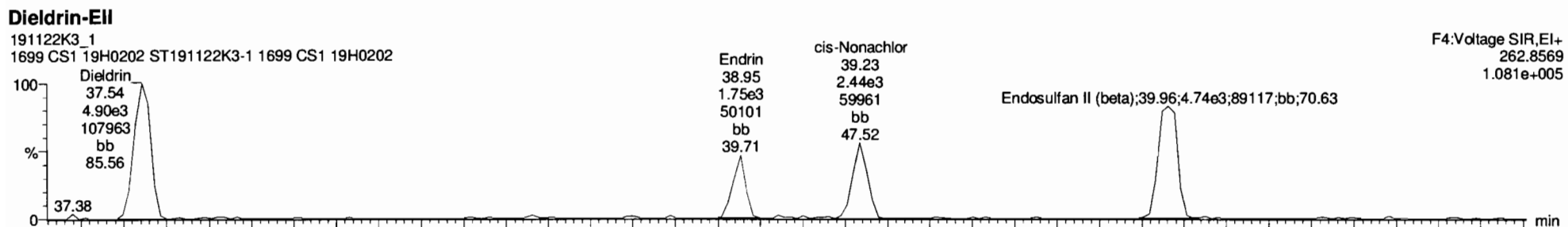


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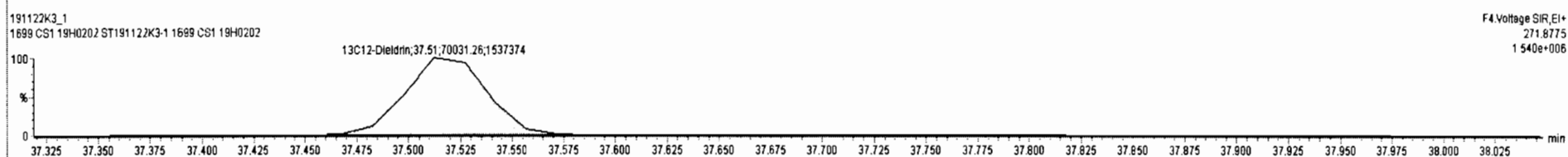
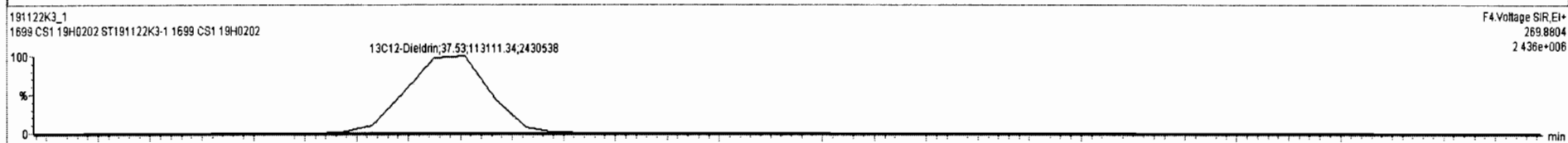
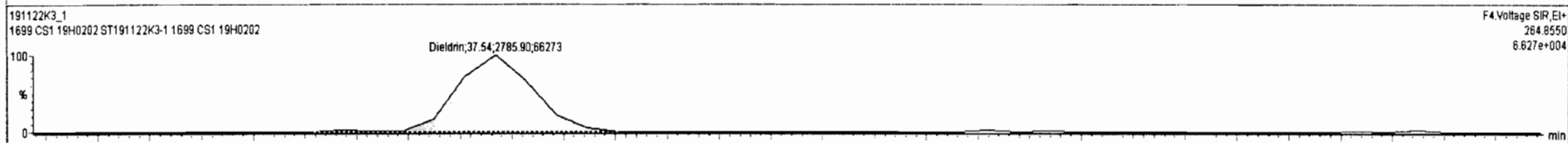
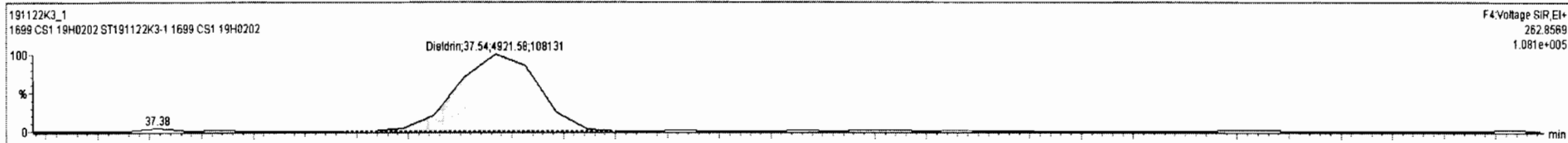
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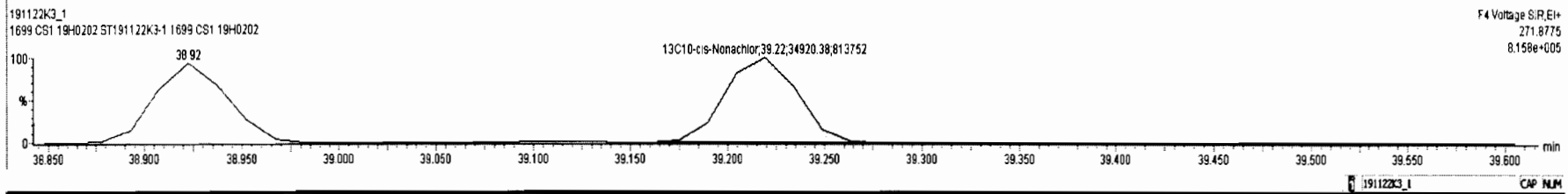
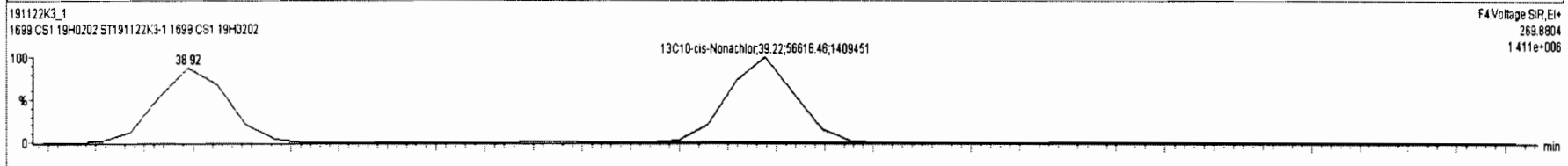
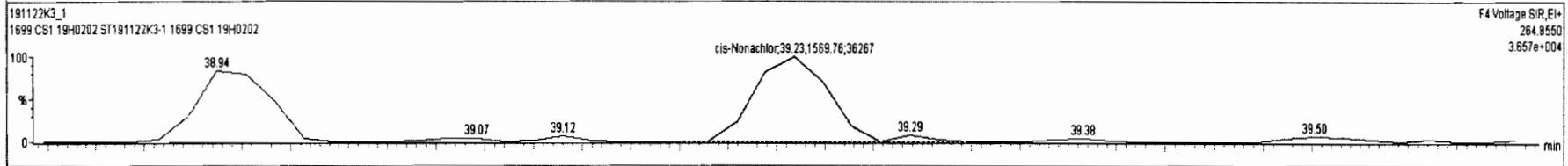
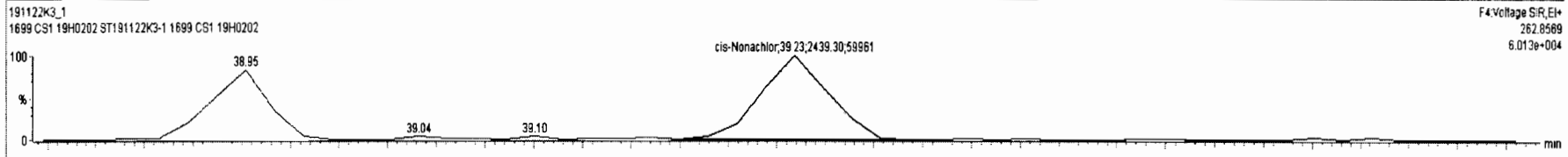
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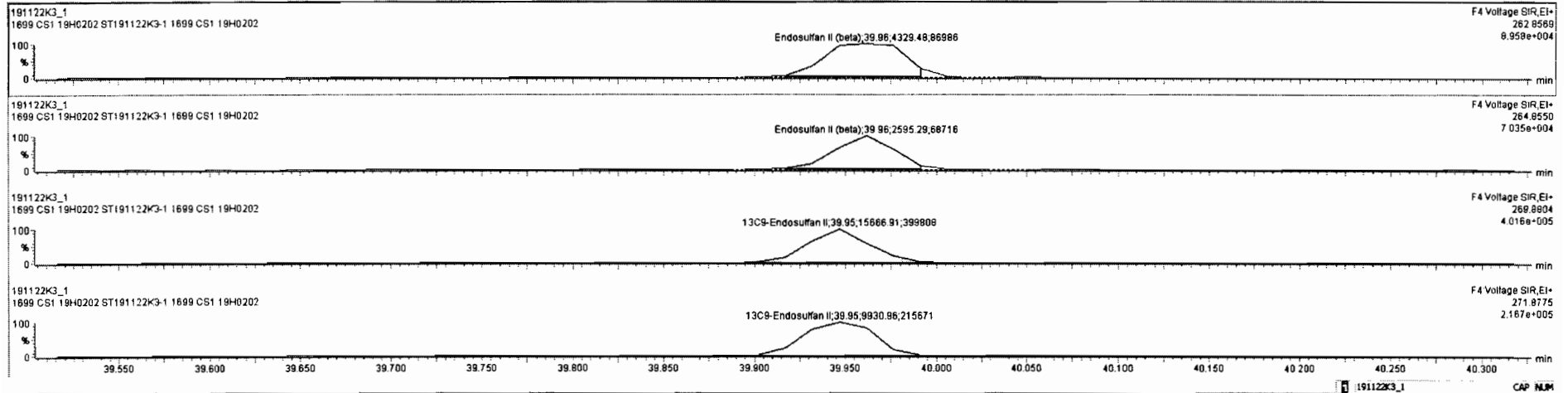
#	Name	RT	RA	yth	Area	IS Area	Std. Conc.	%Dev	%RSD	RRF M.	RRF SD
18	2,4'-DDE	35.96	1.246	NO	6.7980e4	1.8350e5	2.000	8.4	10.0	0.854	0.0855
19	4,4'-DDE	37.04	1.258	NO	4.9897e4	1.3258e5	2.000	7.8	10.3	0.873	0.0898
20	Dieldrin	37.54	1.787	NO	7.7075e3	1.8914e5	2.000	9.9	10.8	0.987	0.0987
21	Endrin	38.95	1.322	NO	3.0745e3	8.3694e4	2.000	-1.5	10.5	0.933	0.0975
22	cis-Nonachlor	39.23	1.554	NO	4.0091e3	9.1537e4	2.000	14.6	12.2	0.956	0.117
23	Endosulfan II (beta)	39.96	1.668	NO	6.9248e3	2.5598e4	10.000	27.1	19.9	1.06	0.212
24	2,4'-DDD	38.18	1.578	NO	5.3980e4	1.3488e5	2.000	9.5	9.76	0.915	0.0893
25	2,4'-DDT	39.31	1.397	NO	3.3212e4	7.6577e5	2.000	17.8	12.6	0.921	0.116
26	4,4'-DDD	39.44	1.458	NO	4.5704e4	1.0340e5	2.000	10.1	10.1	1.00	0.101
27	4,4'-DDT	40.51	1.504	NO	2.5004e4	5.9879e5	2.000	5.6	9.88	0.987	0.0975
28	Endosulfan Sulfate	41.70	1.707	NO	9.2859e3	4.0770e4	10.000	22.8	14.2	0.927	0.131
29	4,4'-Methoxychlor	43.56	6.035	NO	1.3575e5	5.7669e6	10.000	3.8	10.5	1.13	0.119
30	Mirex	44.11	1.448	NO	1.7089e4	4.1469e5	2.000	10.5	11.1	0.932	0.103
31	Endrin Aldehyde	41.10	0.679	NO	1.5488e4	7.9563e5	10.000	-0.2	9.50	0.975	0.0926
32	Endrin Ketone	44.25	0.688	NO	1.0818e4	5.1456e5	10.000	15.4	11.1	0.911	0.101
33	13C4-Hexachlorobutadiene	10.21	1.259	NO	3.4107e6	2.5033e6	500.000	-1.4	17.5	0.138	0.0241



#	F	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M.	RRF SD
18	18	2,4'-DDE	35.96	1.246	NO	6.7900e4	1.8350e6	2.000	8.4	10.0	0.854	0.0655
19	19	4,4'-DDE	37.04	1.256	NO	4.9887e4	1.3258e6	2.000	7.8	10.3	0.873	0.0898
20	20	Dieldrin	37.54	1.767	NO	7.7075e3	1.8314e5	2.000	9.9	10.0	0.957	0.0957
21	21	Endrin	38.95	1.322	NO	3.0745e3	8.3694e4	2.000	-1.5	10.5	0.933	0.0975
22	22	cis-Nonachlor	39.23	1.854	NO	4.6889e5	8.1537e4	2.000	14.8	12.2	0.958	0.117
23	23	Endosulfan I (beta)	39.96	1.688	NO	6.5249e3	2.5598e4	10.000	27.1	19.9	1.06	0.212
24	24	2,4'-DDD	38.18	1.578	NO	5.3980e4	1.3468e6	2.000	9.5	9.76	0.915	0.0893
25	25	2,4'-DDT	39.31	1.337	NO	3.3212e4	7.6577e5	2.000	17.8	12.6	0.921	0.116
26	26	4,4'-DDD	39.44	1.459	NO	4.5704e4	1.0340e6	2.000	10.1	10.1	1.00	0.101
27	27	4,4'-DDT	40.51	1.504	NO	2.5004e4	5.9979e5	2.000	5.6	9.88	0.987	0.0975
28	28	Endosulfan Sulfate	41.70	1.707	NO	9.2859e3	4.0770e4	10.000	22.8	14.2	0.927	0.131
29	29	4,4'-Methoxychlor	43.56	8.035	NO	1.3575e5	5.7669e6	10.000	3.8	10.5	1.13	0.119
30	30	Mirex	44.11	1.448	NO	1.7089e4	4.1469e5	2.000	10.5	11.1	0.932	0.103
31	31	Endrin Aldehyde	41.10	0.679	NO	1.5488e4	7.9563e5	10.000	-0.2	9.50	0.975	0.0926
32	32	Endrin Ketone	44.25	0.888	NO	1.0819e4	5.1456e5	10.000	15.4	11.1	0.911	0.101
33	33	1,3,4-Hexachlorobutadiene	10.21	1.259	NO	3.4107e6	2.5023e6	500.000	-1.4	17.5	0.136	0.0241



#	Name	Resp	RA	Adj	RRF	WtAvd	Prod.LRT	RT	Prod.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
15	cis-Chlordane	3.26e3	1.58	NO	0.9810	1.000	35.97	35.96	1.014	1.014	NO	2.119	106	0.198	2.119
16	Endosulfan I (alpha)	1.37e4	1.38	NO	1.1048	1.000	36.09	36.08	1.001	1.000	NO	12.52	126	0.285	12.52
17	4,4'-DDMU	4.91e4	3.17	NO	0.6167	1.000	35.74	35.74	0.994	0.994	NO	2.168	108	0.0369	2.168
18	2,4'-DDE	6.80e4	1.25	NO	0.8542	1.000	35.96	35.96	1.000	1.000	NO	2.168	108	0.0750	2.169
19	4,4'-DDE	4.98e4	1.28	NO	0.8728	1.000	37.05	37.04	1.000	1.000	NO	2.158	108	0.0974	2.158
20	Deslin	7.72e3	1.74	NO	0.9572	1.000	37.55	37.54	1.000	1.000	NO	2.201	110	0.0869	2.201
21	Endrin	3.07e3	1.32	NO	0.9326	1.000	38.92	38.95	1.000	1.001	NO	1.970	98.5	0.175	1.970
22	cis-Nonachlor	4.07e3	1.50	NO	0.9583	1.000	39.23	39.23	1.000	1.000	NO	2.319	116	0.150	2.319
23	Endosulfan II (beta)	6.82e3	1.67	NO	1.0838	1.000	39.96	39.96	1.000	1.000	NO	12.71	127	0.471	12.71
24	2,4'-DDD	5.40e4	1.58	NO	0.9153	1.000	38.17	38.18	1.000	1.000	NO	2.190	109	0.127	2.190
25	2,4'-DDT	3.32e4	1.34	NO	0.9205	1.000	39.31	39.31	1.000	1.000	NO	2.356	118	0.231	2.356
26	4,4'-DDD	4.63e4	1.41	NO	1.0064	1.000	39.45	39.44	1.000	1.000	NO	2.226	111	0.138	2.226
27	4,4'-DDT	2.57e4	1.57	NO	0.9914	1.000	40.52	40.51	1.000	1.000	NO	2.157	108	0.236	2.157
28	Endosulfan Sulfate	9.29e3	1.71	NO	0.9273	1.000	41.68	41.70	1.000	1.000	NO	12.28	123	0.359	12.28
29	4,4'-Methoxychlor	1.37e5	5.76	NO	1.1355	1.000	43.55	43.56	1.000	1.000	NO	10.44	104	0.0929	10.44
30	Mirex	1.71e4	1.45	NO	0.9323	1.000	44.11	44.11	1.000	1.000	NO	2.210	111	0.0563	2.210
31	Endrin Aldehyde	1.60e4	0.70	NO	0.9805	1.000	41.09	41.10	1.000	1.001	NO	10.27	103	0.263	10.27
32	Endrin Ketone	1.08e4	0.89	NO	0.9108	1.000	44.23	44.25	1.000	1.000	NO	11.54	115	0.458	11.54
33	13C4-Hexachlorobutadiene	3.41e6	1.26	NO	0.1382	1.000	10.19	10.21	0.390	0.391	NO	493.1	98.6	0.0237	
34	13C6-Hexachlorobenzene	1.75e6	1.28	NO	0.6911	1.000	22.83	22.83	0.874	0.873	NO	50.45	101	0.00414	
35	13C5-Alpha-BHC	6.29e5	0.79	NO	0.2457	1.000	23.38	23.37	0.895	0.894	NO	51.13	102	0.139	
36	13C5-Lindane (gamma)	4.71e5	0.80	NO	0.1893	1.000	26.64	26.63	1.020	1.019	NO	49.66	99.3	0.180	
37	13C5-Beta-BHC	3.80e5	0.79	NO	0.1406	1.000	28.70	28.72	1.098	1.099	NO	51.13	102	0.242	
38	13C5-Delta-BHC	4.11e5	0.78	NO	0.1644	1.000	30.40	30.41	1.163	1.164	NO	48.92	99.8	0.207	
39	13C10-Heptachlor	1.79e5	1.30	NO	0.0770	1.000	28.83	28.83	1.103	1.103	NO	46.46	92.9	0.0895	

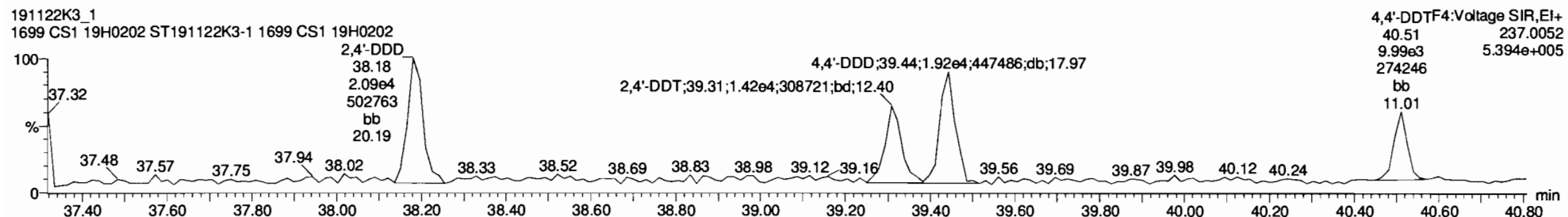
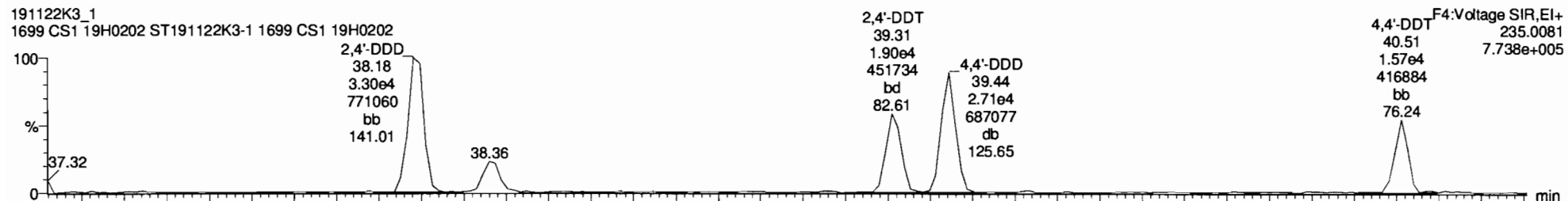


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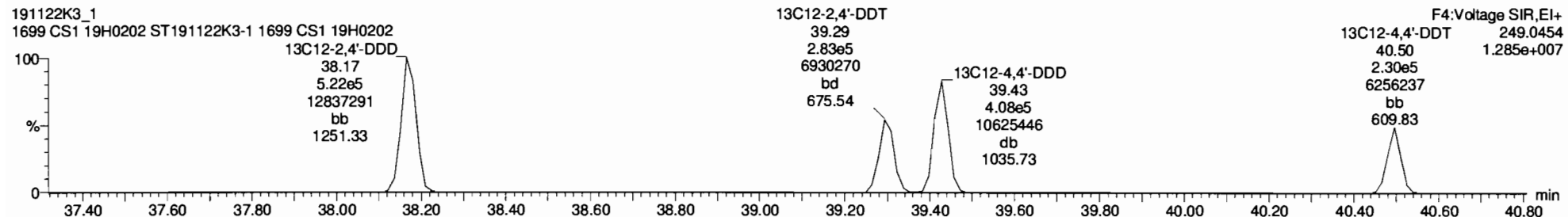
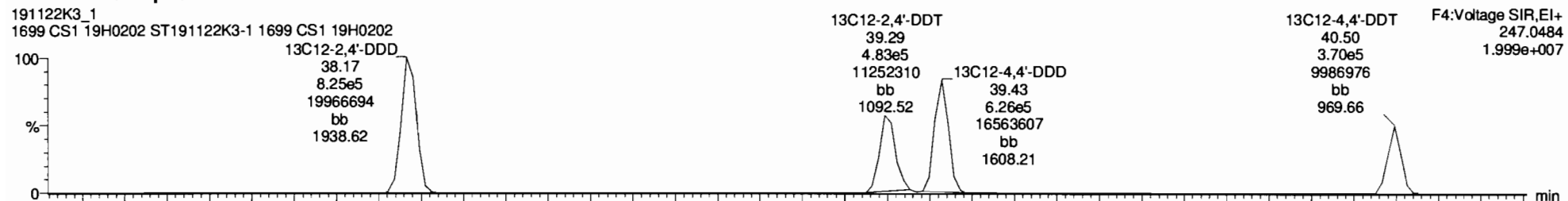
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DDD-DDT

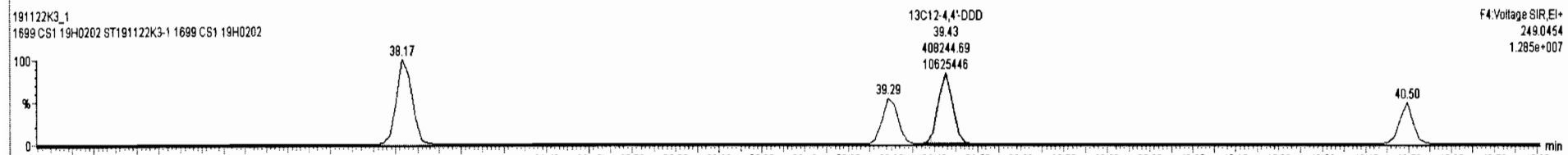
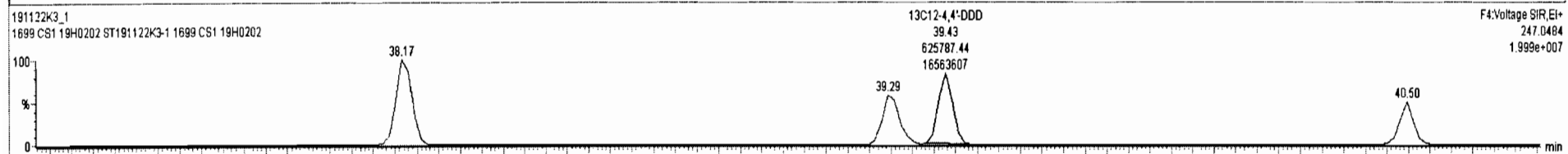
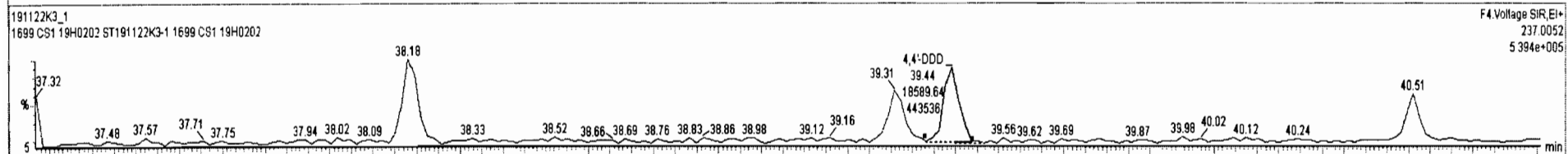
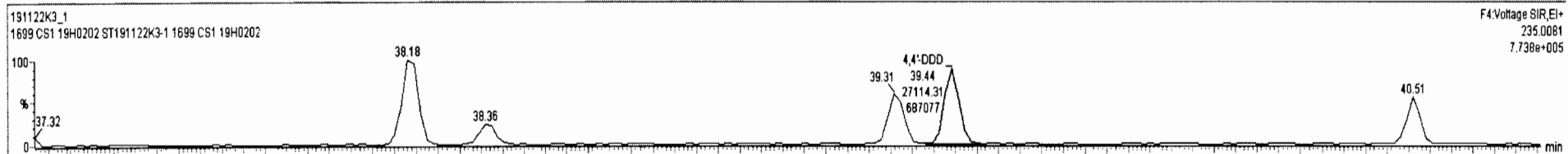


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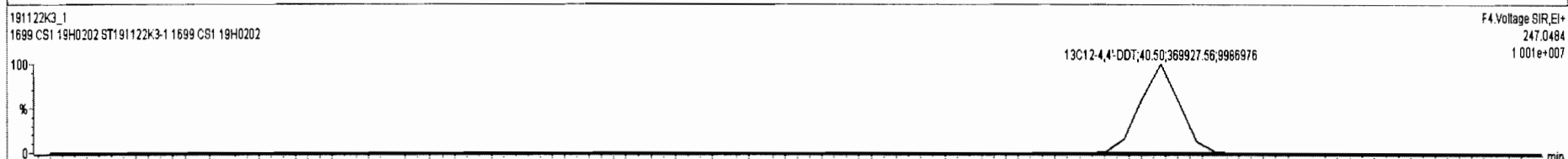
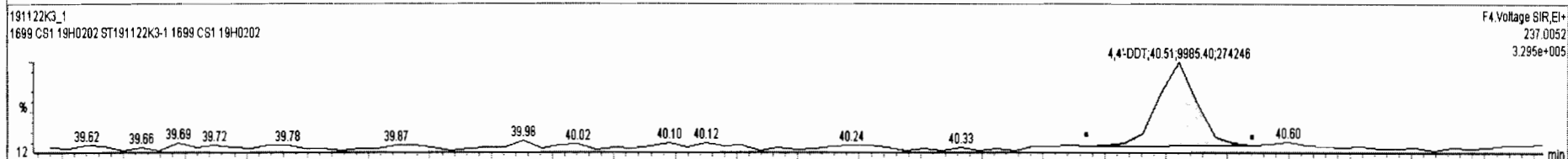
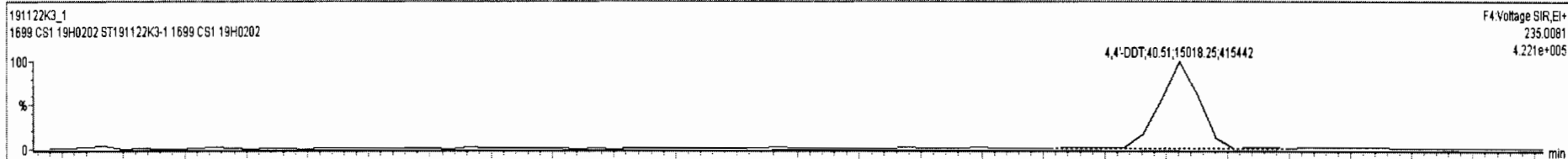
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#	Name	RT	RA	y/n	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M	RRF SD
18	2,4'-DDE	35.96	1.246	NO	6.7980e4	1.8350e6	2.000	8.4	10.0	0.854	0.0855
19	4,4'-DDE	37.04	1.256	NO	4.9807e4	1.3258e6	2.000	7.8	10.3	0.873	0.0898
20	Dieldrin	37.54	1.787	NO	7.7075e3	1.8314e5	2.000	9.9	10.0	0.957	0.0957
21	Endrin	38.95	1.322	NO	3.0745e3	8.3694e4	2.000	-1.5	10.5	0.933	0.0975
22	cis-Nonachlor	39.23	1.554	NO	4.0091e3	9.1537e4	2.000	14.6	12.2	0.956	0.117
23	Endosulfan II (beta)	39.96	1.668	NO	6.9248e3	2.5598e4	10.000	27.1	19.9	1.06	0.212
24	2,4'-DDD	38.18	1.578	NO	5.3980e4	1.3468e6	2.000	9.5	9.76	0.915	0.0893
25	2,4'-DDT	39.31	1.337	NO	3.3212e4	7.8577e5	2.000	17.8	12.6	0.921	0.116
26	4,4'-DDD	39.44	1.458	NO	4.5704e4	1.0340e6	2.000	10.1	10.1	1.00	0.101
27	4,4'-DDT	40.51	1.504	NO	2.5004e4	5.9979e5	2.000	5.6	9.88	0.987	0.0975
28	Endosulfan Sulfate	41.70	1.707	NO	9.2859e3	4.0770e4	10.000	22.8	14.2	0.927	0.131
29	4,4'-Methoxychlor	43.56	6.035	NO	1.3575e5	5.7669e6	10.000	3.8	10.5	1.13	0.119
30	Mirex	44.11	1.448	NO	1.7089e4	4.1469e5	2.000	10.5	11.1	0.932	0.103
31	Endrin Aldehyde	41.10	0.679	NO	1.5488e4	7.9563e5	10.000	-0.2	9.50	0.975	0.0926
32	Endrin Ketone	44.25	0.688	NO	1.0818e4	5.1456e5	10.000	15.4	11.1	0.911	0.101
33	13C4-Hexachlorobutadiene	10.21	1.259	NO	3.4107e6	2.5033e6	500.000	-1.4	17.5	0.138	0.0241



191122K3_1 ST 191122K3-1 1699 CS1 19H0202 1699 CS1 19H0202

#	F.	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M.	RRF SD
18	18	2,4'-DDE	35.96	1.246	NO	6.7980e4	1.8350e6	2.000	8.4	10.0	0.854	0.0855
19	19	4,4'-DDE	37.04	1.256	NO	4.9887e4	1.3258e6	2.000	7.8	10.3	0.873	0.0898
20	20	Dieldrin	37.54	1.767	NO	7.7075e3	1.8314e5	2.000	9.9	10.0	0.957	0.0957
21	21	Endrin	38.95	1.322	NO	3.0745e3	8.3694e4	2.000	-1.5	10.5	0.933	0.0975
22	22	cis-Nonachlor	39.23	1.554	NO	4.0091e3	9.1537e4	2.000	14.6	12.2	0.956	0.117
23	23	Endosulfan II (beta)	39.96	1.688	NO	6.9248e3	2.5598e4	10.000	27.1	19.9	1.06	0.212
24	24	2,4'-DDD	38.18	1.578	NO	5.3980e4	1.3468e6	2.000	9.5	9.76	0.915	0.0893
25	25	2,4'-DDT	39.31	1.337	NO	3.3212e4	7.6577e5	2.000	17.8	12.6	0.921	0.116
26	26	4,4'-DDD	39.44	1.459	NO	4.5704e4	1.0340e6	2.000	10.1	10.1	1.00	0.101
27	27	4,4'-DDT	40.51	1.594	NO	2.5004e4	5.9978e5	2.000	5.6	9.86	0.967	0.0975
28	28	Endosulfan Sulfate	41.70	1.707	NO	9.2859e3	4.0770e4	10.000	22.8	14.2	0.927	0.131
29	29	4,4'-Methoxychlor	43.56	6.035	NO	1.3575e5	5.7889e6	10.000	3.8	10.5	1.13	0.119
30	30	Mirex	44.11	1.448	NO	1.7089e4	4.1489e5	2.000	10.5	11.1	0.932	0.103
31	31	Endrin Aldehyde	41.10	0.679	NO	1.5488e4	7.9563e5	10.000	-0.2	9.50	0.975	0.0926
32	32	Endrin Ketone	44.25	0.688	NO	1.0818e4	5.1456e5	10.000	15.4	11.1	0.911	0.101
33	33	13C4-Hexachlorobutadiene	10.21	1.259	NO	3.4107e6	2.5033e6	500.000	-1.4	17.5	0.138	0.0241



Dataset: Untitled

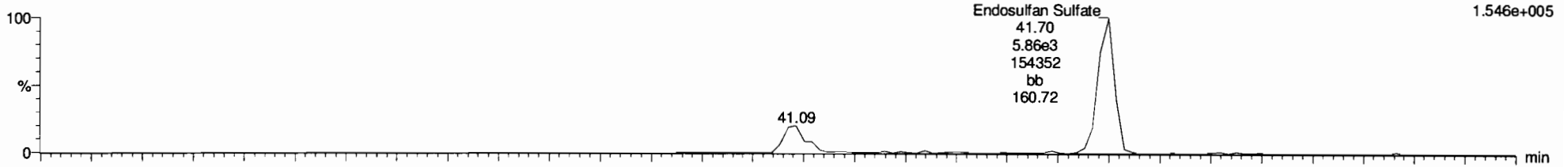
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Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_1, Date: 22-Nov-2019, Time: 16:01:15, ID: ST191122K3-1 1699 CS1 19H0202, Description: 1699 CS1 19H0202

Endosulfan Sulfate

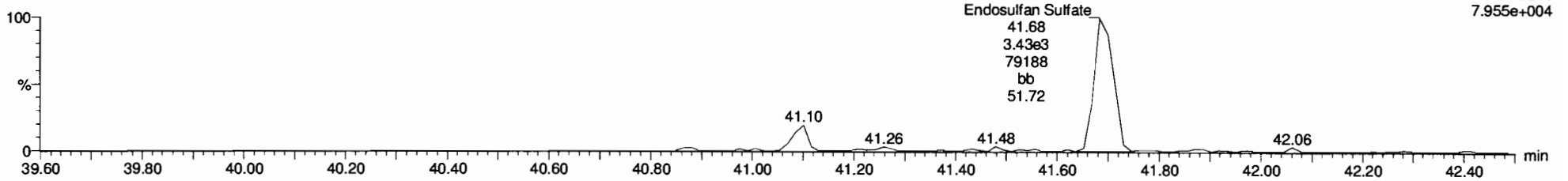
191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

F5:Voltage SIR,EI+
262.8569
1.546e+005



191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

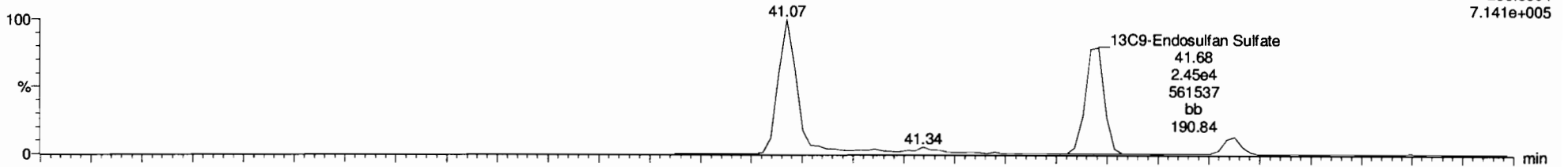
F5:Voltage SIR,EI+
264.8540
7.955e+004



¹³C9-Endosulfan Sulfate

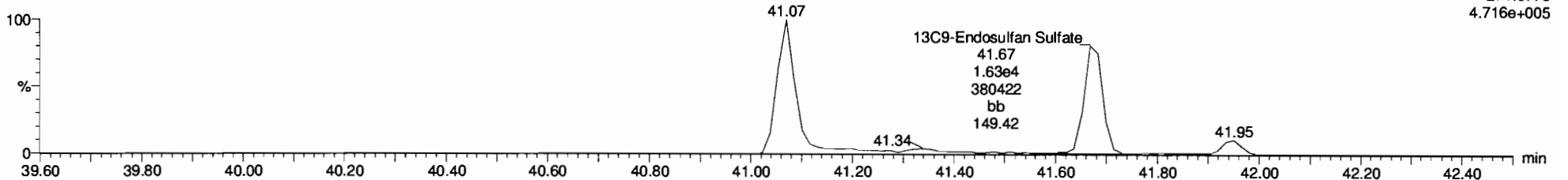
191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

F5:Voltage SIR,EI+
269.8804
7.141e+005



191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

F5:Voltage SIR,EI+
271.8775
4.716e+005



Dataset: Untitled

Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_1, Date: 22-Nov-2019, Time: 16:01:15, ID: ST191122K3-1 1699 CS1 19H0202, Description: 1699 CS1 19H0202

4,4'-Methoxychlor

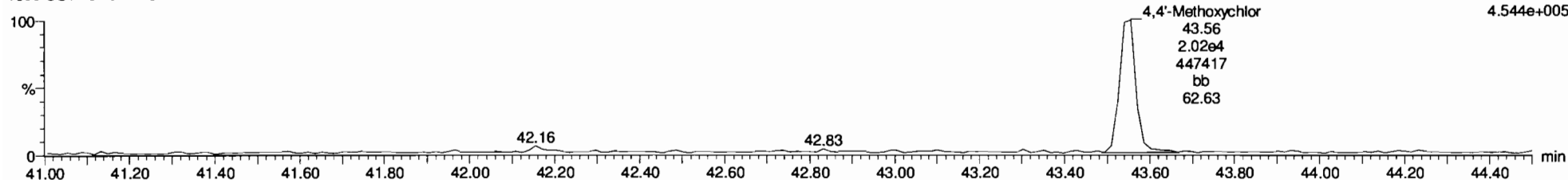
191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

F5:Voltage SIR,EI+
227.1072
2.845e+006



191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

F5:Voltage SIR,EI+
228.1106
4.544e+005



13C12-Methoxychlor

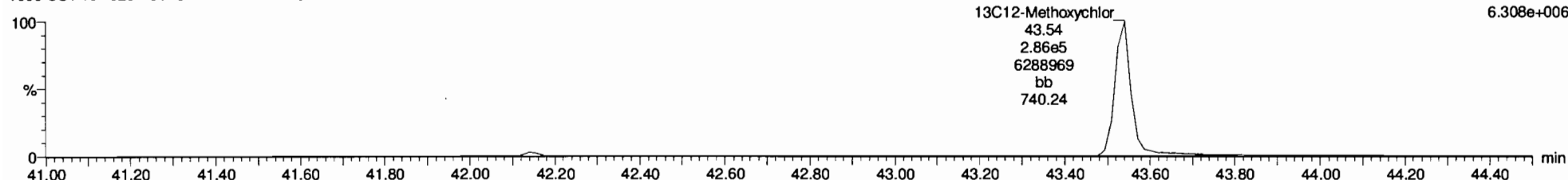
191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

F5:Voltage SIR,EI+
239.1475
1.439e+008

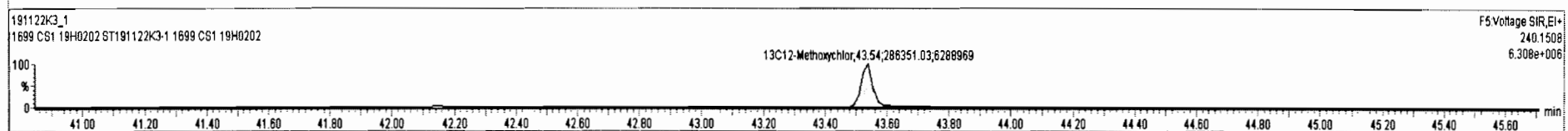
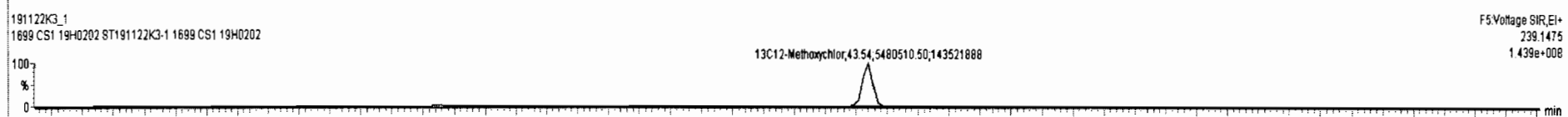
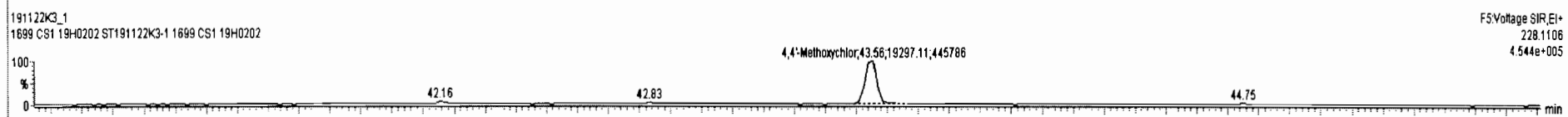
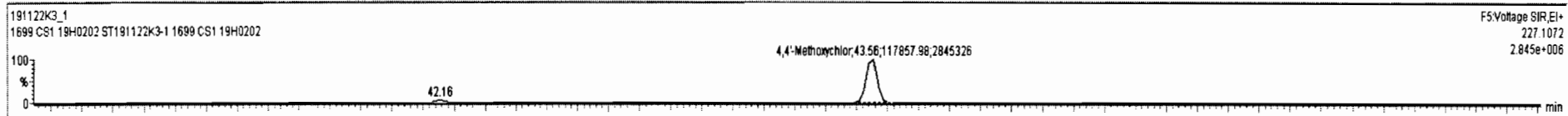


191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

F5:Voltage SIR,EI+
240.1508
6.308e+006



#	Name	Resp	RA	NY	RRF	wVol	Prod.RT	RT	Pred.RT	RRT	RRT Fal	Conc.	%Rec	DL	EMPC
17	4,4'-DDMU	4.91e4	3.17	NO	0.6167	1.000	35.74	35.74	0.994	0.994	NO	2.168	108	0.0441	2.168
18	2,4'-DDE	6.80e4	1.25	NO	0.8542	1.000	35.96	35.96	1.000	1.000	NO	2.169	108	0.0900	2.168
19	4,4'-DDE	4.99e4	1.26	NO	0.8728	1.000	37.05	37.04	1.000	1.000	NO	2.156	108	0.117	2.155
20	Dieldrin	7.71e3	1.77	NO	0.9570	1.000	37.55	37.54	1.000	1.000	NO	2.199	110	0.104	2.199
21	Endrin	3.07e3	1.32	NO	0.9326	1.000	38.92	38.95	1.000	1.001	NO	1.970	98.5	0.210	1.970
22	cis-Nonachlor	4.01e3	1.55	NO	0.9556	1.000	39.23	39.23	1.000	1.000	NO	2.292	115	0.180	2.292
23	Endosulfan II (beta)	6.92e3	1.67	NO	1.0639	1.000	39.95	39.96	1.000	1.000	NO	12.71	127	0.565	12.71
24	2,4'-DDD	5.40e4	1.58	NO	0.9153	1.000	38.17	38.18	1.000	1.000	NO	2.190	109	0.153	2.189
25	2,4'-DDT	3.32e4	1.34	NO	0.9205	1.000	39.31	39.31	1.000	1.000	NO	2.356	118	0.277	2.356
26	4,4'-DDD	4.57e4	1.46	NO	1.0039	1.000	39.45	39.44	1.000	1.000	NO	2.201	110	0.166	2.201
27	4,4'-DDT	2.50e4	1.50	NO	0.9865	1.000	40.52	40.51	1.000	1.000	NO	2.113	106	0.285	2.113
28	Endosulfan Sulfate	9.29e3	1.71	NO	0.9279	1.000	41.68	41.70	1.000	1.000	NO	12.27	123	0.431	12.27
29	4,4'-Methoxychlor	1.37e5	6.11	NO	1.1362	1.000	43.55	43.56	1.000	1.000	NO	10.47	106	0.111	10.47
30	Mirex	1.71e4	1.45	NO	0.9323	1.000	44.11	44.11	1.000	1.000	NO	2.210	111	0.0676	2.210
31	Endrin Aldehyde	1.55e4	0.68	NO	0.8867	1.000	41.09	41.10	1.000	1.001	NO	10.98	110	0.349	10.98
32	Endrin Ketone	1.08e4	0.69	NO	0.9108	1.000	44.23	44.25	1.000	1.000	NO	11.54	115	0.548	11.54
33	13C4-Hexachlorobutadiene	3.41e6	1.26	NO	0.1362	1.000	10.19	10.21	0.990	0.991	NO	493.1	98.6	0.0284	
34	13C6-Hexachlorobenzene	1.75e6	1.27	NO	0.6911	1.000	22.83	22.83	0.874	0.873	NO	50.45	101	0.00497	
35	13C6-Alpha-BHC	6.29e5	0.80	NO	0.2457	1.000	23.38	23.37	0.895	0.894	NO	51.13	102	0.166	
36	13C6-Lindane (gamma)	4.71e5	0.80	NO	0.1891	1.000	26.54	26.63	1.020	1.019	NO	49.73	99.5	0.216	
37	13C6-Beta-BHC	3.60e5	0.79	NO	0.1406	1.000	28.70	28.72	1.098	1.099	NO	51.13	102	0.291	
38	13C6-Delta-BHC	4.11e5	0.78	NO	0.1644	1.000	30.40	30.41	1.163	1.163	NO	49.92	99.8	0.249	
38	13C10-Heptachlor	1.79e5	1.30	NO	0.0770	1.000	28.83	28.83	1.103	1.103	NO	48.48	92.9	0.0634	
40	13C12-Aldrin	2.98e5	1.64	NO	0.1216	1.000	30.94	30.97	1.184	1.185	NO	48.98	98.0	0.144	
41	13C10-Oxychlorane	6.62e4	1.53	NO	0.0263	1.000	33.55	33.58	1.294	1.295	NO	46.73	93.5	0.620	



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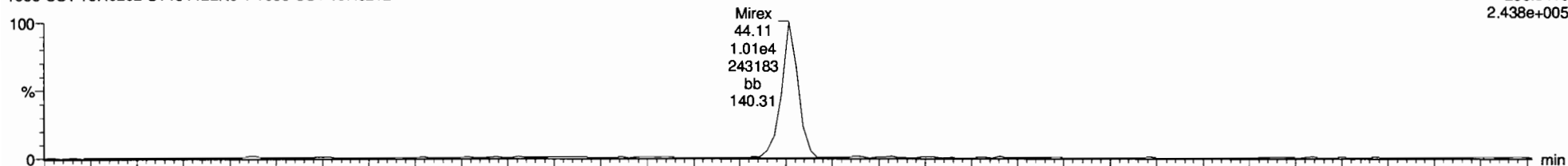
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Name: 191122K3_1, Date: 22-Nov-2019, Time: 16:01:15, ID: ST191122K3-1 1699 CS1 19H0202, Description: 1699 CS1 19H0202

Mirex

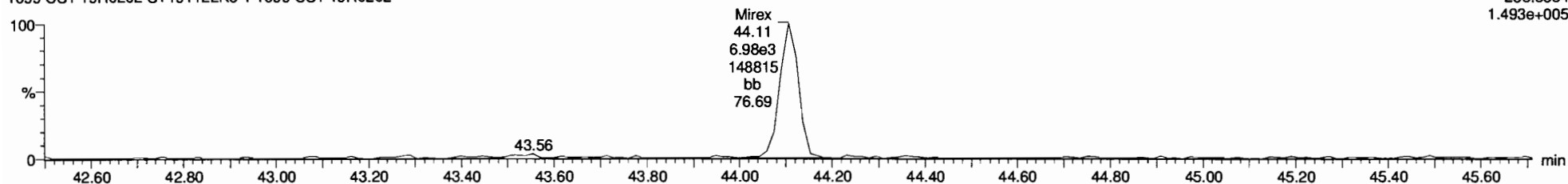
191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

F5:Voltage SIR,EI+
236.8413
2.438e+005



191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

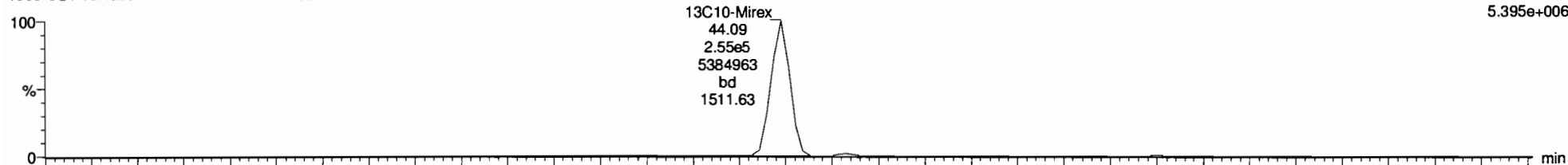
F5:Voltage SIR,EI+
238.8384
1.493e+005



13C10-Mirex

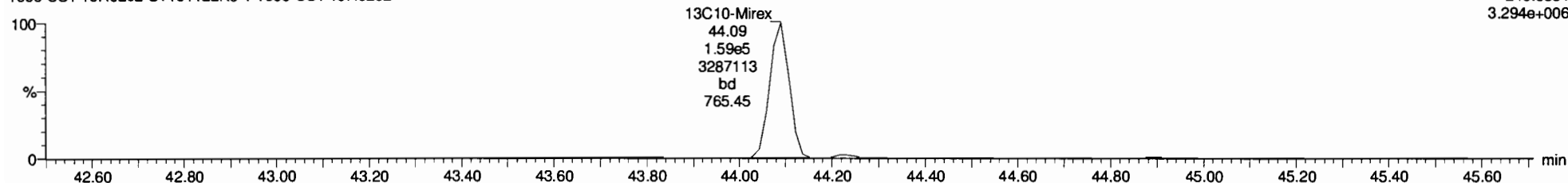
191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

F5:Voltage SIR,EI+
241.8581
5.395e+006



191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

F5:Voltage SIR,EI+
243.8551
3.294e+006



Dataset: Untitled

Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

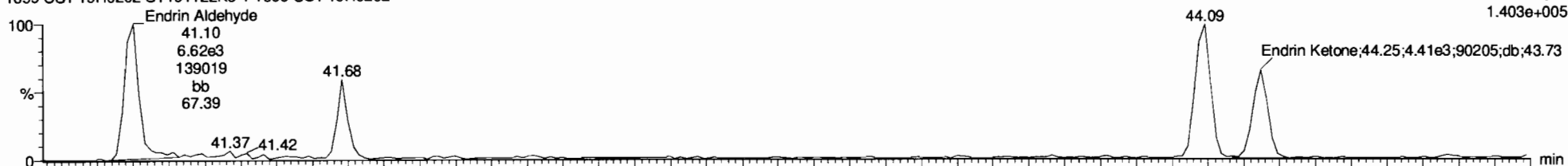
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EA-EK

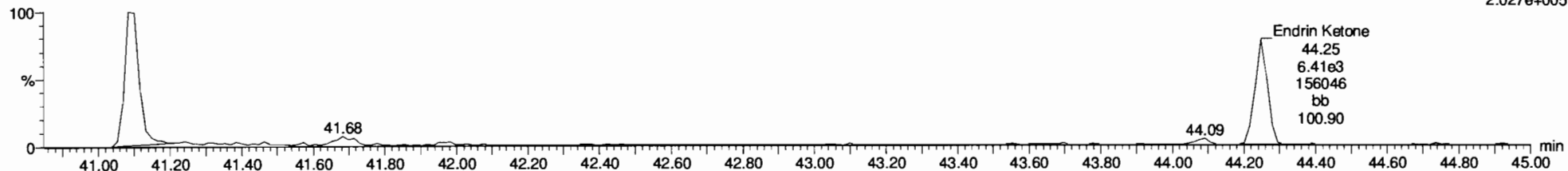
191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

F5:Voltage SIR,EI+
247.8521
1.403e+005



191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

F5:Voltage SIR,EI+
249.8491
2.027e+005



EA-EK-isotopes

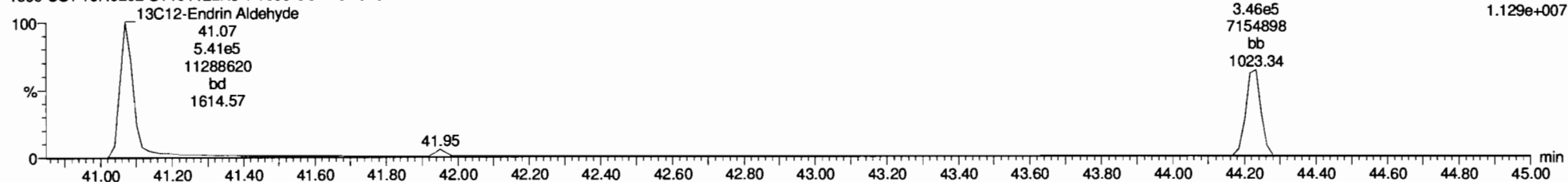
191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

13C12-Endrin Ketone
44.23
1.68e5
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bb
765.70
F5:Voltage SIR,EI+
253.8722
5.613e+006

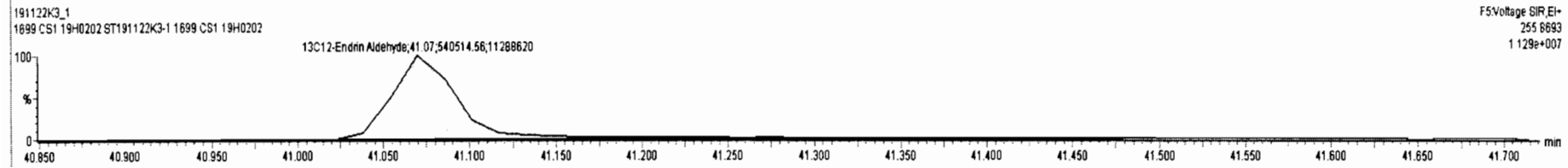
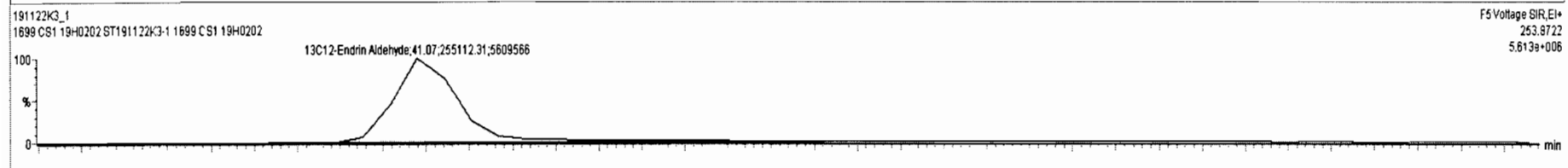
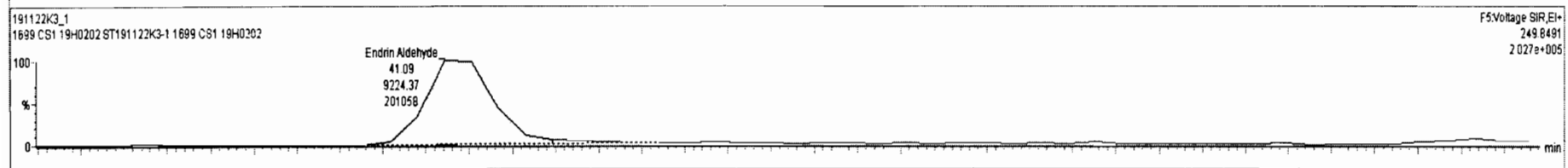
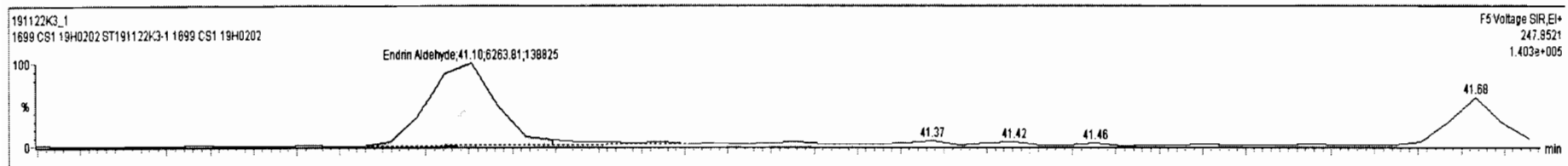


191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

13C12-Endrin Ketone
44.23
3.46e5
7154898
bb
1023.34
F5:Voltage SIR,EI+
255.8693
1.129e+007



P.	Name	RT	RA	yth	Area	IS Area	Std. Conc	%Dev	%RSD	RPF M.	RPF SD
18	2,4'-DDE	35.96	1.246	NO	6.790e4	1.8350e6	2.000	8.4	10.0	0.854	0.0855
19	4,4'-DDE	37.04	1.256	NO	4.9887e4	1.3258e6	2.000	7.8	10.3	0.873	0.0898
20	Dieldrin	37.54	1.757	NO	7.7075e3	1.8314e6	2.000	9.9	10.0	0.957	0.0957
21	Endrin	38.95	1.322	NO	3.0745e3	8.3694e4	2.000	-1.5	10.5	0.933	0.0975
22	cis-Nonachlor	39.23	1.554	NO	4.0091e3	9.1537e4	2.000	14.6	12.2	0.956	0.117
23	Endosulfan I (beta)	39.96	1.668	NO	6.9248e3	2.5598e4	10.000	27.1	19.9	1.06	0.212
24	2,4'-DDD	38.18	1.578	NO	5.3980e4	1.3468e6	2.000	9.5	9.76	0.915	0.0893
25	2,4'-DDT	39.31	1.337	NO	3.3212e4	7.6577e5	2.000	17.8	12.6	0.921	0.116
26	2,4'-DDD	39.44	1.459	NO	4.5704e4	1.0340e6	2.000	10.1	10.1	1.00	0.101
27	4,4'-DDT	40.51	1.504	NO	2.5004e4	5.9979e5	2.000	5.6	9.88	0.987	0.0975
28	Endosulfan Sulfate	41.70	1.707	NO	9.2859e3	4.0770e4	10.000	22.8	14.2	0.927	0.131
29	4,4'-Methoxychlor	43.56	6.108	NO	1.3716e5	5.7689e6	10.000	4.7	10.8	1.14	0.120
30	Mirex	44.11	1.448	NO	1.7089e4	4.1469e5	2.000	10.5	11.1	0.932	0.103
31	Endrin Aldehyde	41.10	0.679	NO	1.5488e4	7.8883e5	10.000	-0.2	9.89	0.975	0.0926
32	Endrin Ketone	44.25	0.688	NO	1.0818e4	5.1456e5	10.000	15.4	11.1	0.911	0.101
33	13C4-Hexachlorobutadiene	10.21	1.259	NO	3.4107e6	2.5033e6	500.000	-1.4	17.5	0.138	0.0241



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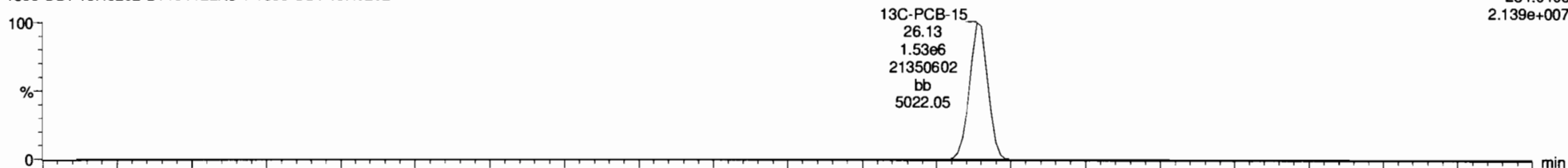
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13C-PCB-15

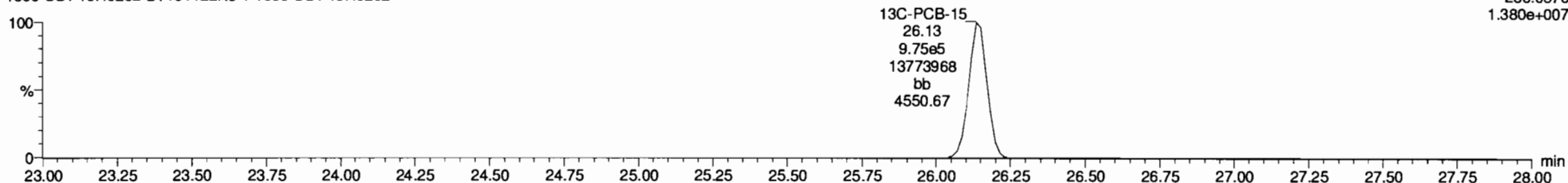
191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

F2:Voltage SIR,EI+
234.0406
2.139e+007



191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

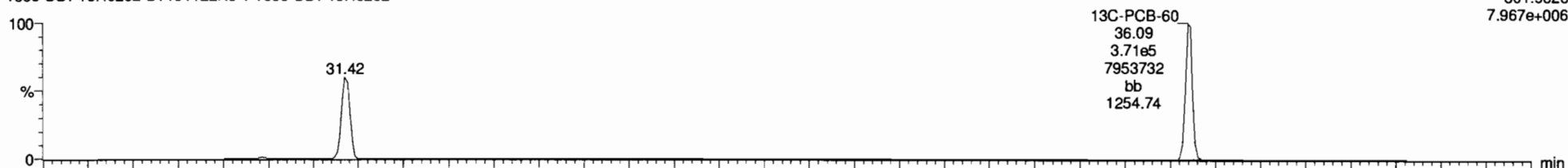
F2:Voltage SIR,EI+
236.0376
1.380e+007



13C-PCB-60

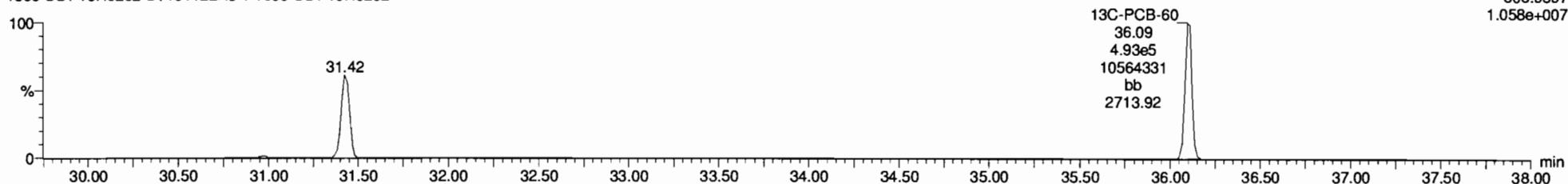
191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

F3:Voltage SIR,EI+
301.9626
7.967e+006



191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

F3:Voltage SIR,EI+
303.9597
1.058e+007



Dataset: Untitled

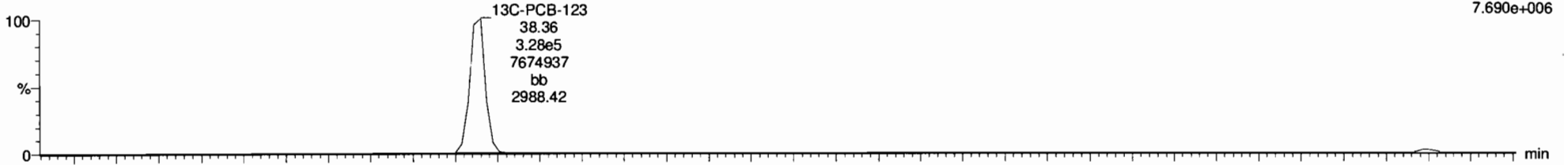
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Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

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13C-PCB-123

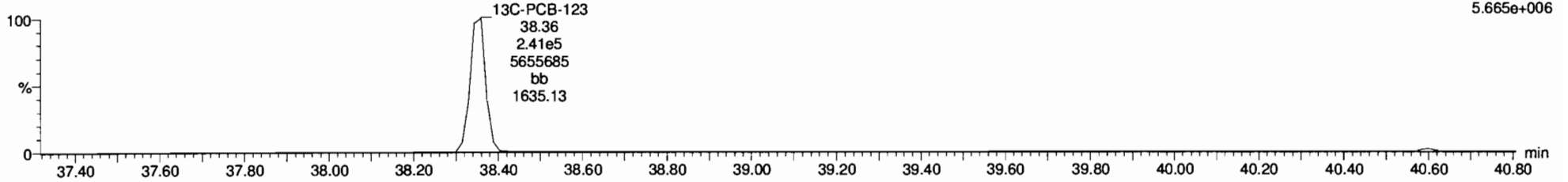
191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

F4:Voltage SIR,EI+
337.9210
7.690e+006



191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

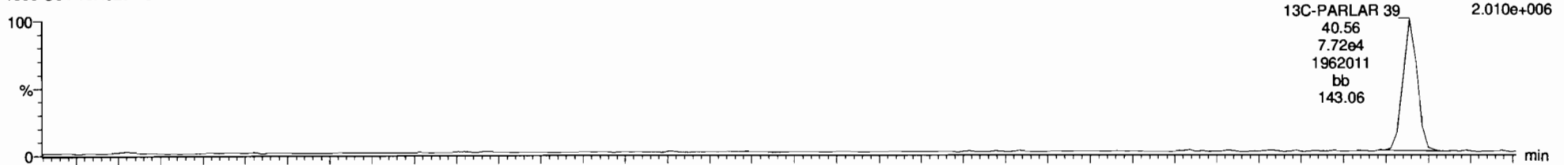
F4:Voltage SIR,EI+
339.9180
5.665e+006



13C-PARLAR 39

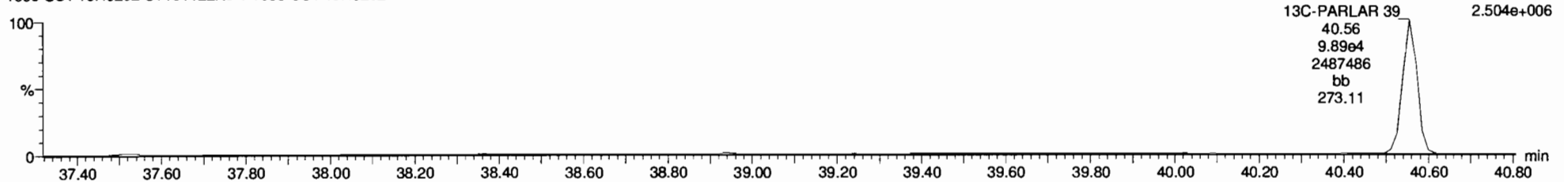
191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

F4:Voltage SIR,EI+
251.9648
2.010e+006



191122K3_1
1699 CS1 19H0202 ST191122K3-1 1699 CS1 19H0202

F4:Voltage SIR,EI+
253.9619
2.504e+006



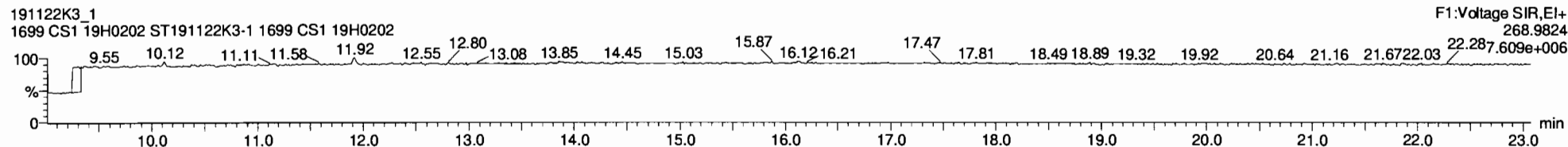
Dataset: Untitled

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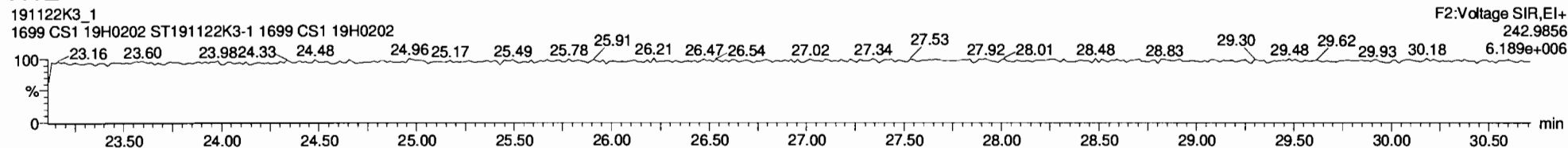
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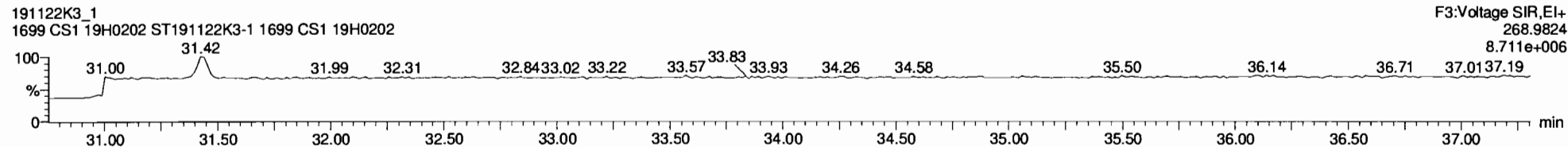
PFK1



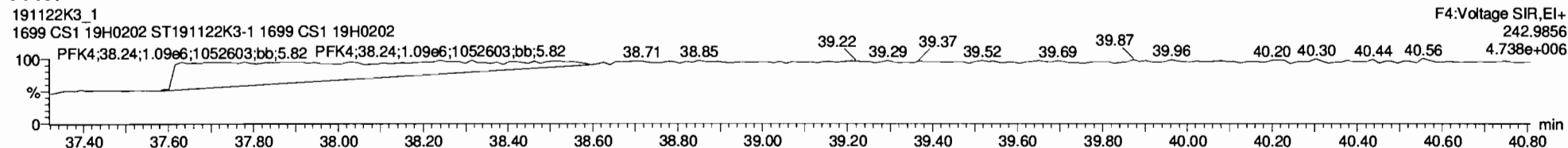
PFK2



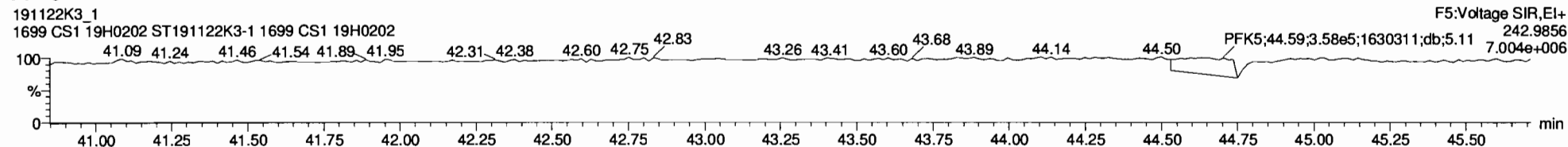
PFK3



PFK4



PFK5



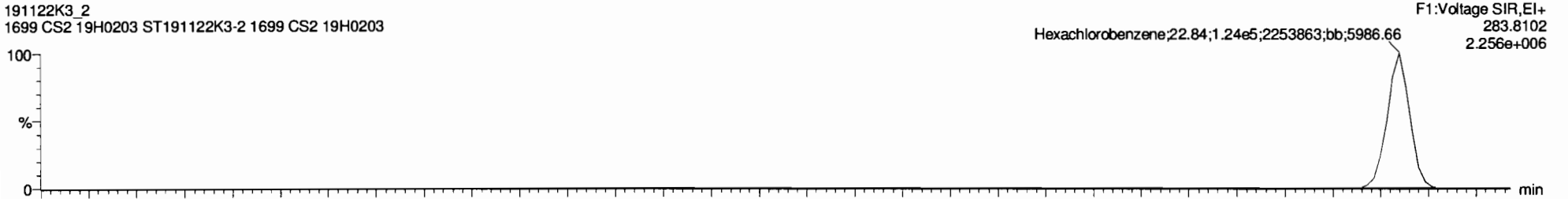
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Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

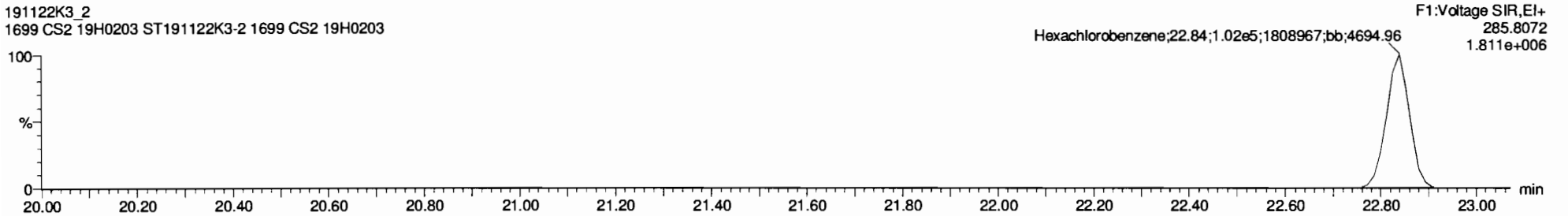
Name: 191122K3_2, Date: 22-Nov-2019, Time: 16:51:16, ID: ST191122K3-2 1699 CS2 19H0203, Description: 1699 CS2 19H0203

Hexachlorobenzene

191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

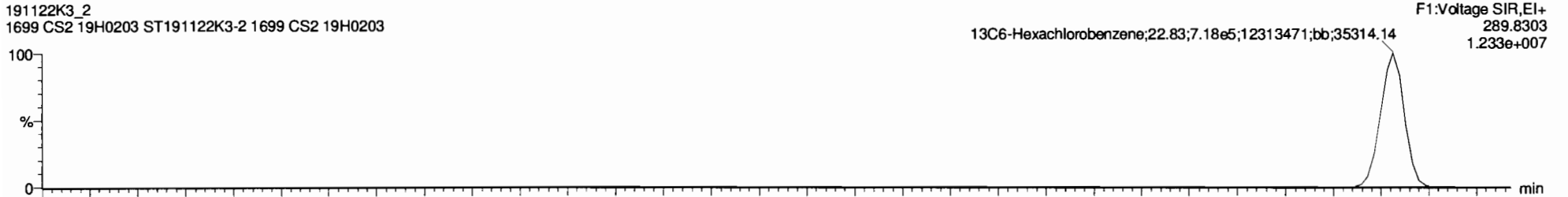


191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

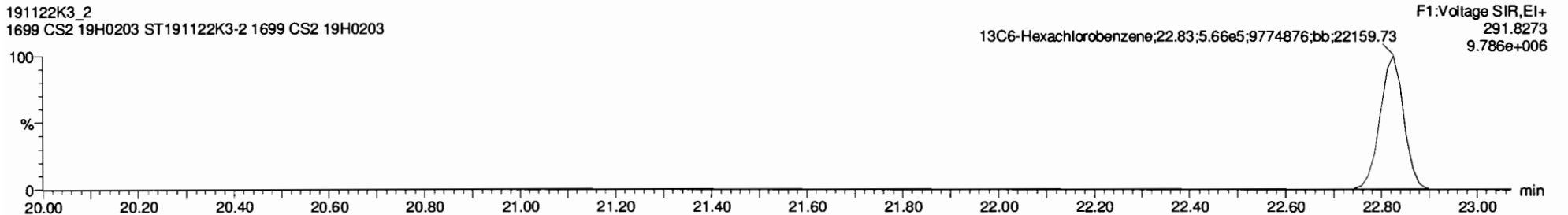


13C6-Hexachlorobenzene

191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203



191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203



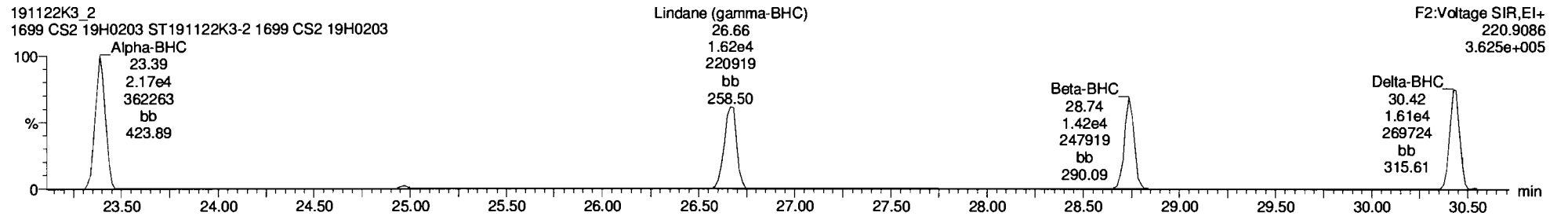
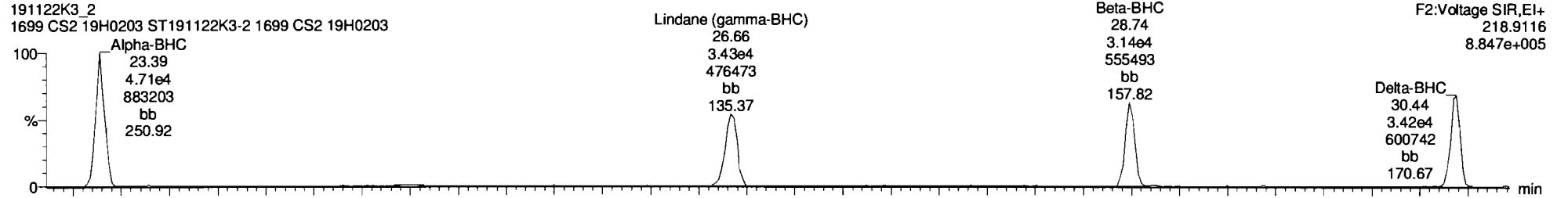
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Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

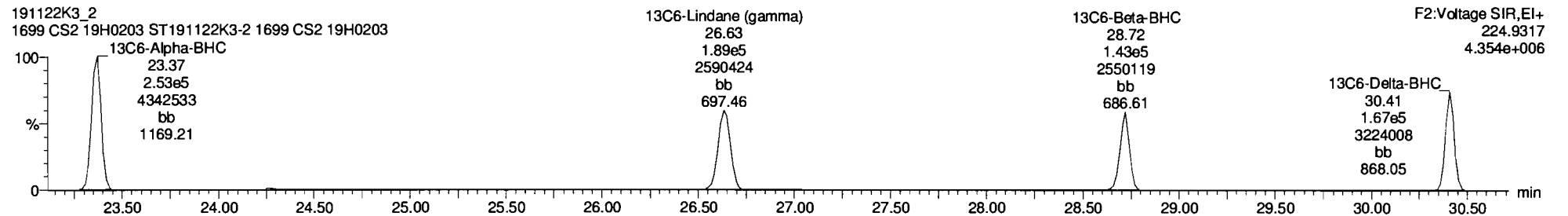
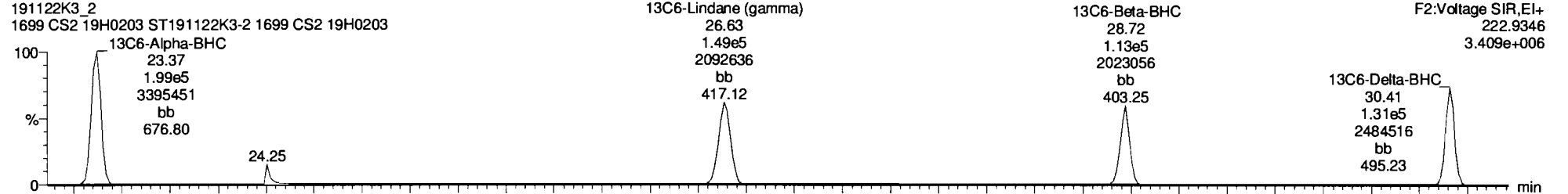
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_2, Date: 22-Nov-2019, Time: 16:51:16, ID: ST191122K3-2 1699 CS2 19H0203, Description: 1699 CS2 19H0203

BHC Totals



BHC-isotopes



Dataset: Untitled

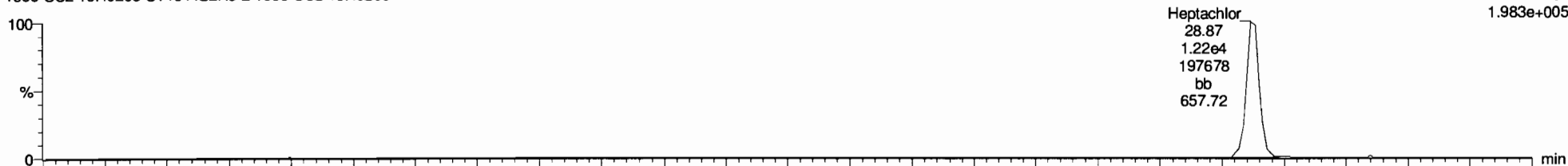
Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_2, Date: 22-Nov-2019, Time: 16:51:16, ID: ST191122K3-2 1699 CS2 19H0203, Description: 1699 CS2 19H0203

Heptachlor

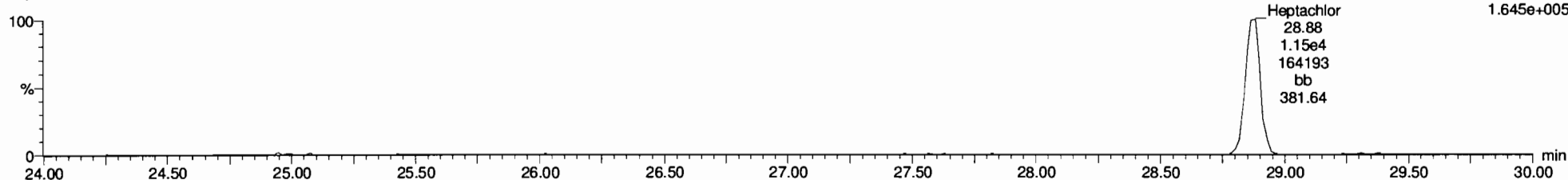
191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

F2:Voltage SIR,EI+
271.8102
1.983e+005



191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

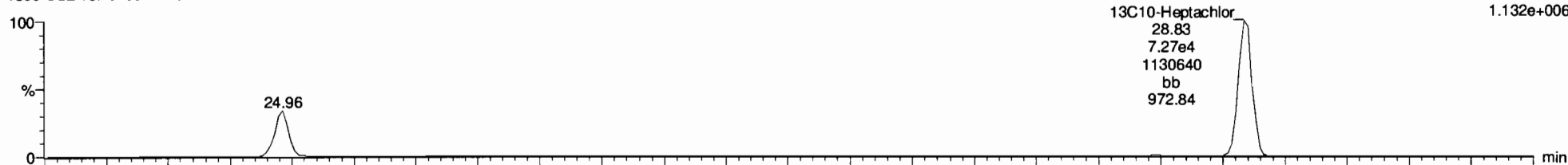
F2:Voltage SIR,EI+
273.8072
1.645e+005



¹³C10-Heptachlor

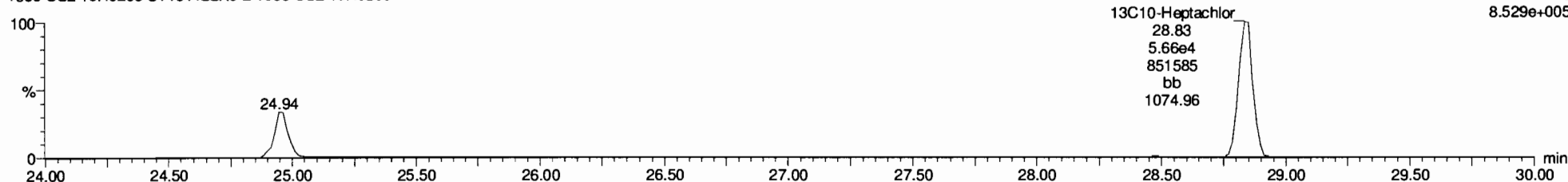
191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

F2:Voltage SIR,EI+
276.8269
1.132e+006



191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

F2:Voltage SIR,EI+
278.8240
8.529e+005



Dataset: Untitled

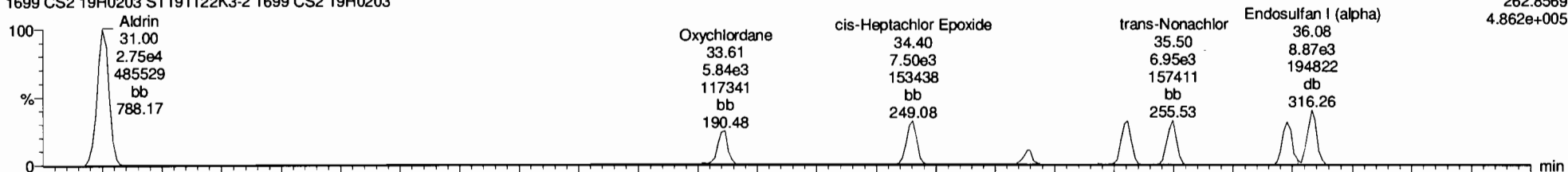
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Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_2, Date: 22-Nov-2019, Time: 16:51:16, ID: ST191122K3-2 1699 CS2 19H0203, Description: 1699 CS2 19H0203

Aldrin-EI

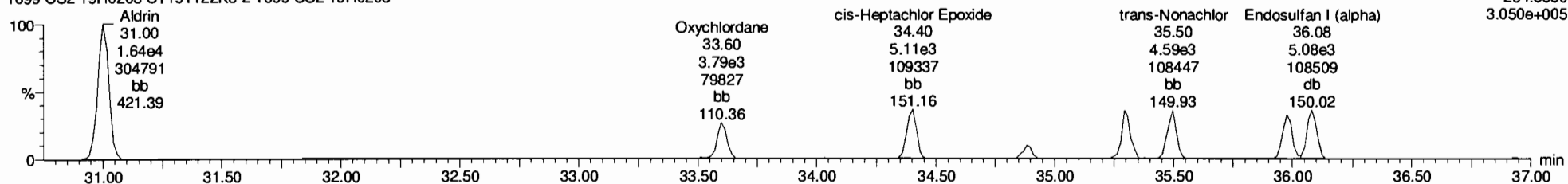
191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

F3:Voltage SIR,EI+
262.8569
4.862e+005



191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

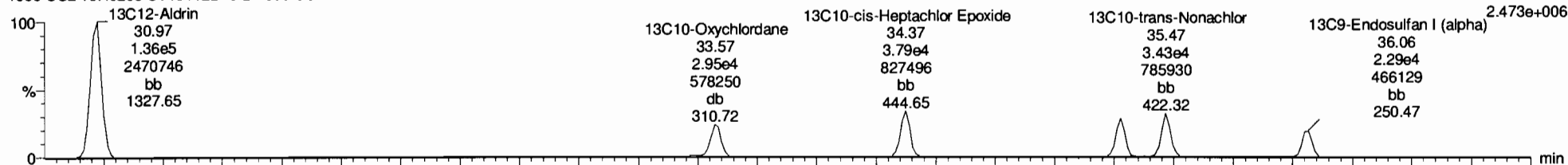
F3:Voltage SIR,EI+
264.8550
3.050e+005



Aldrin-EI-isotopes

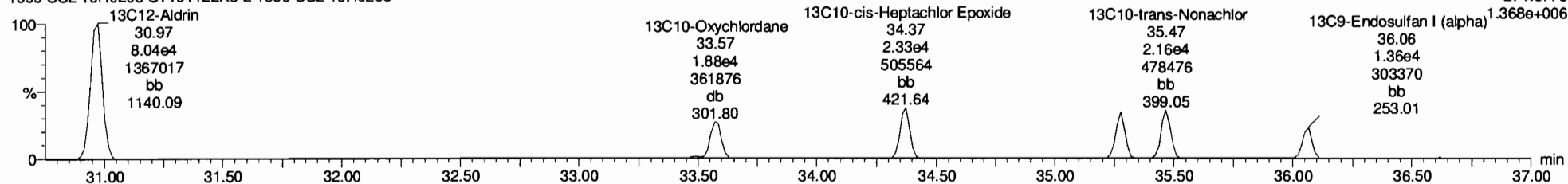
191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

F3:Voltage SIR,EI+
269.8804
2.473e+006

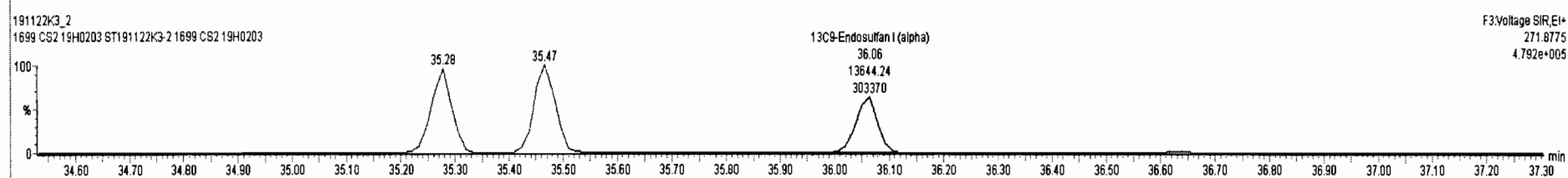
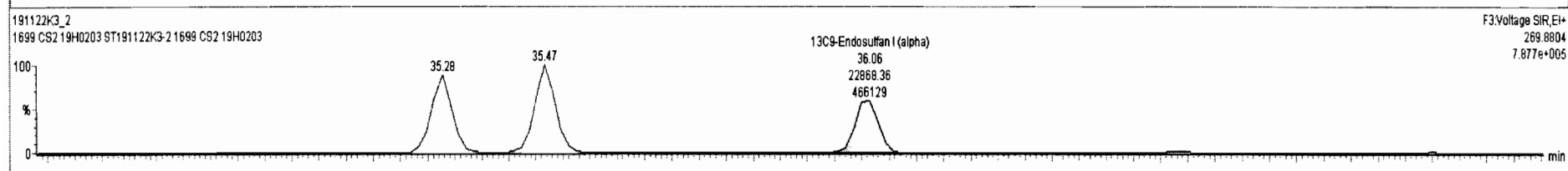
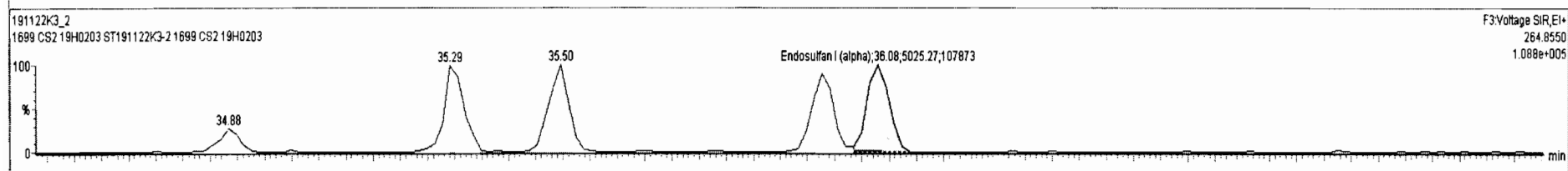
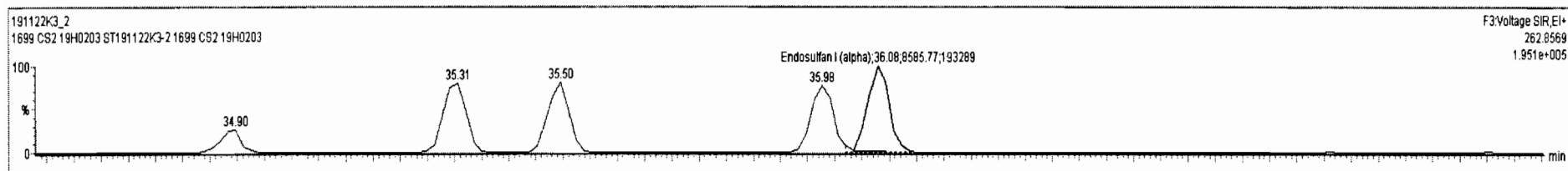


191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

F3:Voltage SIR,EI+
271.8775
1.368e+006



#	Name	RT	RA	yh	Area	IS Area	SM Cond	%Dev	%RSD	RFI M...	RFI SD
1	Hexachlorobutadiene	10.23	0.038	YES	5.0523e4	2.9898e6	50.000	-5.8	185	0.179	0.332
2	Hexachlorobenzene	22.84	1.219	NO	2.2646e5	1.2845e6	10.000	0.8	9.56	0.874	0.0636
3	Alpha-BHC	23.39	2.169	NO	6.8848e4	4.5241e5	10.000	0.1	9.29	0.780	0.0706
4	Lindane (gamma-BHC)	26.66	2.121	NO	5.0545e4	3.3795e5	10.000	0.6	10.7	0.744	0.0799
5	Beta-BHC	28.74	2.218	NO	4.5537e4	2.5680e5	10.000	-1.0	9.61	0.896	0.0661
6	Delta-BHC	30.44	2.117	NO	5.0001e4	2.9764e5	10.000	0.9	9.98	0.837	0.0635
7	Heptachlor	28.86	1.056	NO	2.3726e4	1.2924e5	10.000	-5.1	10.0	0.968	0.0968
8	4,4'-DDDU	30.34	3.174	NO	7.2903e4	2.9764e5	10.000	-3.3	11.3	1.27	0.143
9	Aldrin	31.00	1.674	NO	4.3886e4	2.1652e5	10.000	-1.0	9.91	1.02	0.101
10	Oxychlorodane	33.61	1.543	NO	9.6251e3	4.8264e4	10.000	0.5	9.31	0.992	0.0924
11	cis-Heptachlor Epoxide	34.40	1.467	NO	1.2611e4	6.1191e4	10.000	2.8	10.4	1.00	0.104
12	trans-Heptachlor Epoxide	34.90	1.772	NO	3.4877e3	6.1191e4	10.000	11.7	11.6	0.255	0.0297
13	trans-Chlordane (gamma)	35.31	1.632	NO	1.2055e4	5.0663e4	10.000	9.8	13.1	1.08	0.142
14	trans-Nonachlor	35.49	1.513	NO	1.1536e4	5.5943e4	10.000	2.9	14.4	1.00	0.144
15	cis-Chlordane	35.98	1.554	NO	1.1622e4	5.5943e4	10.000	5.9	12.3	0.981	0.121
16	Endosulfan I (alpha)	36.08	1.709	NO	1.3811e4	3.6913e4	15.000	12.3	19.7	1.11	0.218



Dataset: Untitled

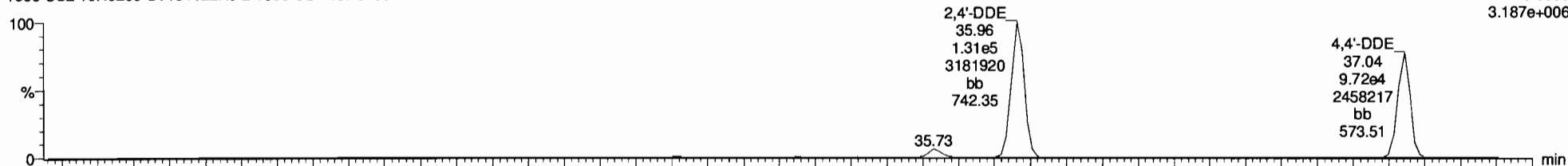
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Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_2, Date: 22-Nov-2019, Time: 16:51:16, ID: ST191122K3-2 1699 CS2 19H0203, Description: 1699 CS2 19H0203

DDMU-DDE

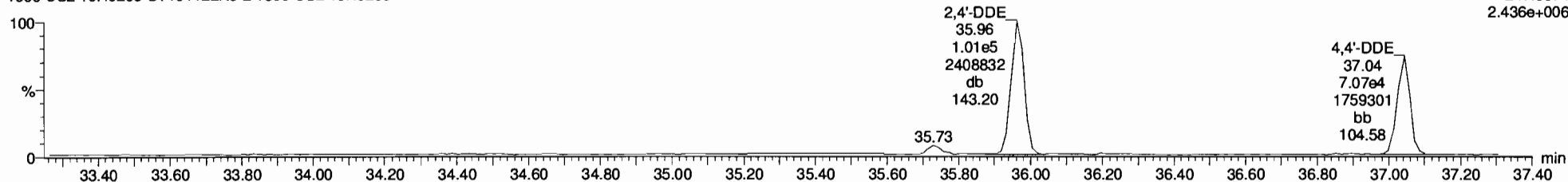
191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

F3:Voltage SIR,EI+
246.0003
3.187e+006



191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

F3:Voltage SIR,EI+
247.9974
2.436e+006



DDE-isotopes

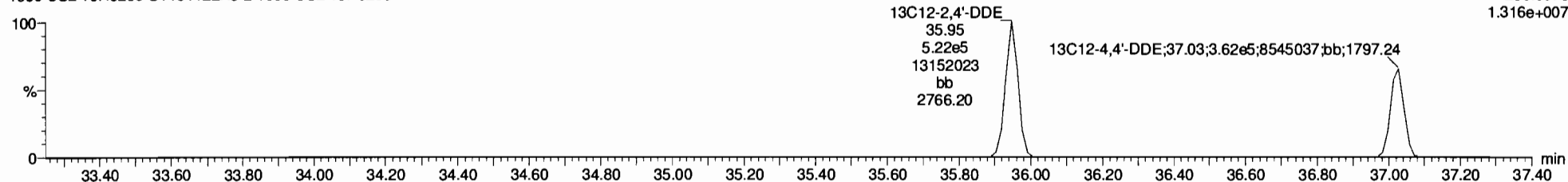
191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

F3:Voltage SIR,EI+
258.0406
2.048e+007



191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

F3:Voltage SIR,EI+
260.0376
1.316e+007



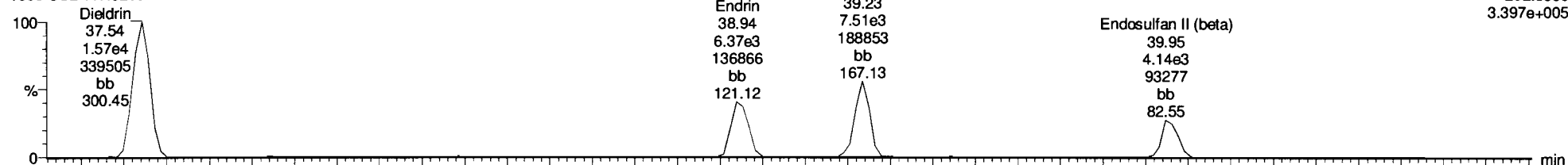
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Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_2, Date: 22-Nov-2019, Time: 16:51:16, ID: ST191122K3-2 1699 CS2 19H0203, Description: 1699 CS2 19H0203

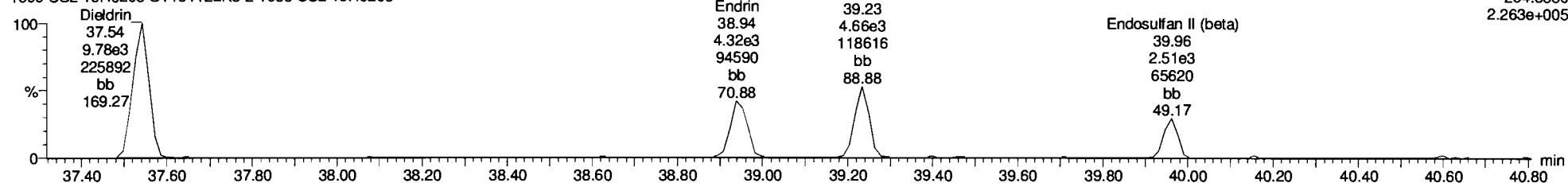
Dieldrin-EII

191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203



F4:Voltage SIR,EI+
262.8569
3.397e+005

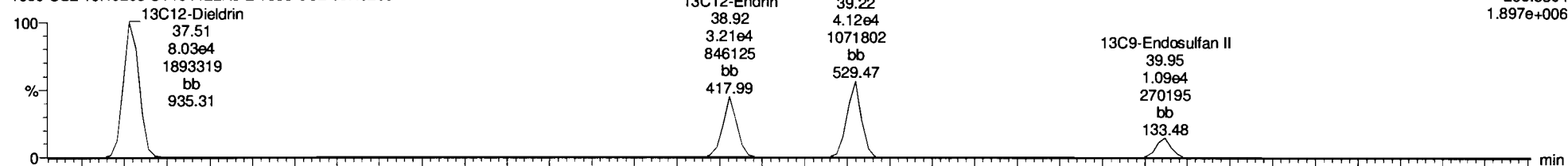
191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203



F4:Voltage SIR,EI+
264.8550
2.263e+005

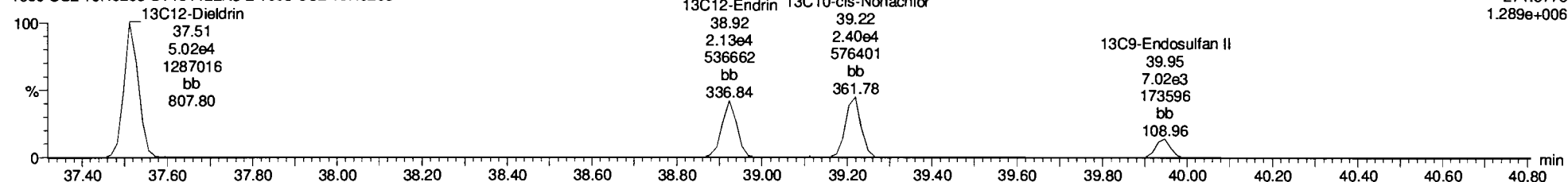
Dieldrin-EII-isotopes

191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203



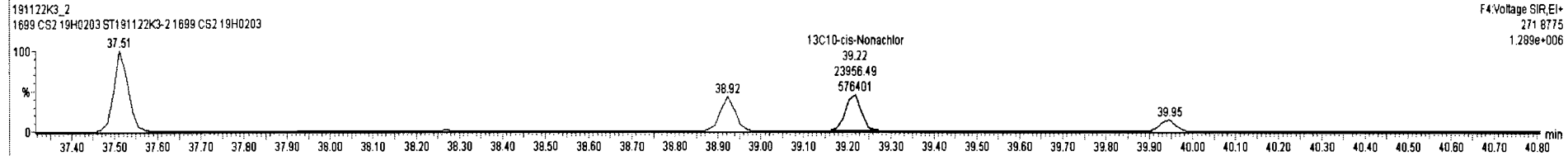
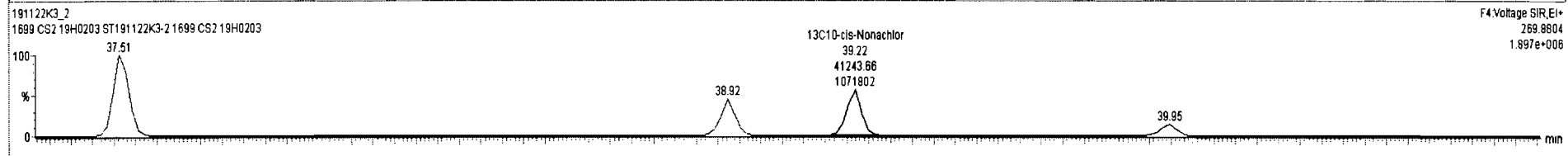
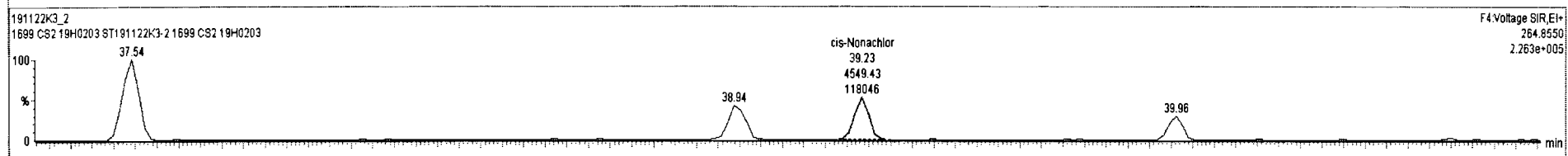
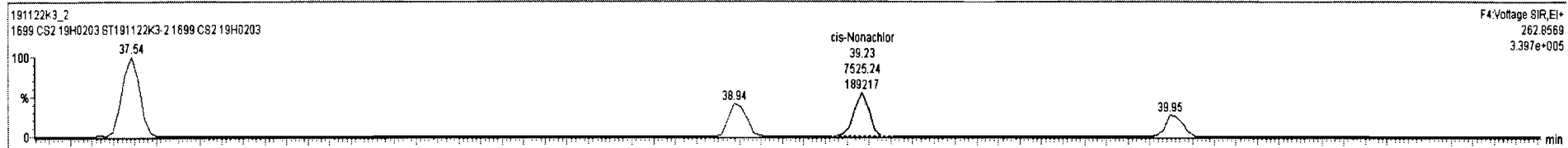
F4:Voltage SIR,EI+
269.8804
1.897e+006

191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203



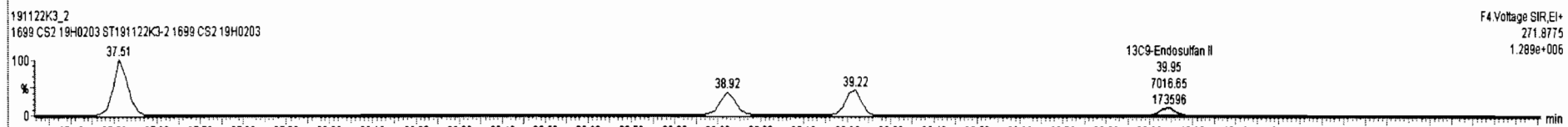
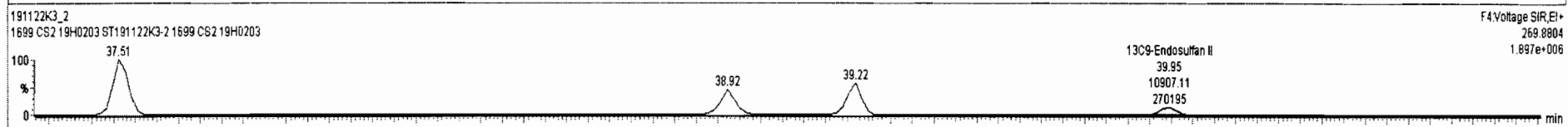
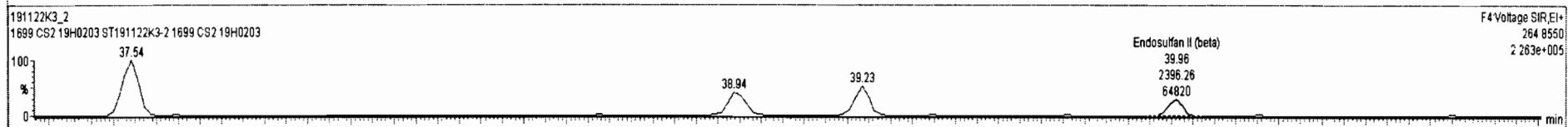
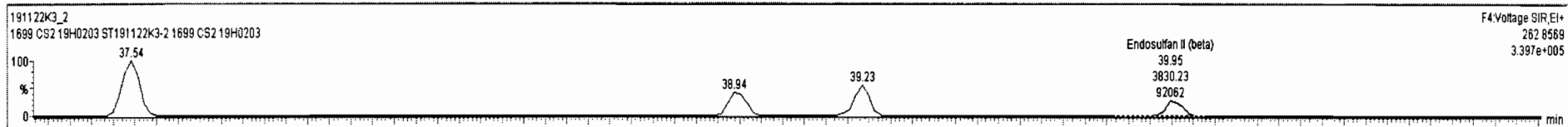
F4:Voltage SIR,EI+
271.8775
1.289e+006

#	Name	RT	RA	Yth	Area	IS Area	Std. Conc	%Dev	%RSD	RFI M.	RFI SD
18	2,4'-DDE	35.98	1.303	NO	2.3218e5	1.3456e6	10.000	1.0	10.0	0.854	0.0855
19	4,4'-DDE	37.04	1.374	NO	1.6789e5	9.3035e5	10.000	3.4	10.3	0.873	0.0898
20	Dieldrin	37.54	1.610	NO	2.5515e4	1.3047e5	10.000	2.2	10.0	0.957	0.0957
21	Endrin	38.94	1.475	NO	1.0635e4	5.3413e4	10.000	7.4	10.5	0.933	0.0975
22	cis-Nonachlor	39.23	1.854	NO	1.2075e4	6.5000e4	10.000	-5.1	12.2	0.968	0.117
23	Endosulfan II (beta)	39.95	1.598	NO	6.2765e3	1.7924e4	15.000	8.8	19.9	1.06	0.212
24	2,4'-DDD	38.18	1.531	NO	1.7650e5	9.5627e5	10.000	0.8	9.76	0.915	0.0893
25	2,4'-DDT	39.31	1.614	NO	1.0451e5	5.6851e5	10.000	-0.1	12.6	0.921	0.116
26	4,4'-DDD	38.44	1.611	NO	1.4956e5	7.3427e5	10.000	1.4	10.1	1.00	0.101
27	4,4'-DDT	40.51	1.458	NO	8.4008e4	4.1469e5	10.000	2.6	9.88	0.987	0.0975
28	Endosulfan Sulfate	41.88	1.410	NO	8.6070e3	3.1191e4	15.000	-0.8	14.2	0.927	0.131
29	4,4'-Methoxychlor	43.54	6.051	NO	1.9092e5	3.8629e6	15.000	-0.6	10.6	1.14	0.120
30	Mirex	44.11	1.469	NO	5.4683e4	3.0294e5	10.000	-3.2	11.1	0.932	0.103
31	Endrin Aldehyde	41.08	0.849	NO	1.6591e4	5.7292e5	15.000	-1.0	9.50	0.975	0.0928
32	Endrin Ketone	44.25	0.667	NO	1.0325e4	3.7719e5	15.000	0.2	11.1	0.911	0.101
33	13C4-Hexachlorobutadiene	10.21	1.274	NO	2.9898e6	1.8396e6	500.000	17.7	17.5	0.138	0.0241



191122K3_2 ST191122K3-2 1699 CS2 19H0203 1699 CS2 19H0203

#	F...	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RFI M...	RFI SD
18	18	2,4'-DDE	35.96	1.303	NO	2.3218e5	1.3456e6	10.000	1.0	10.0	0.854	0.0855
19	19	4,4'-DDE	37.04	1.374	NO	1.6789e5	9.3035e5	10.000	3.4	10.3	0.873	0.0898
20	20	Dieldrin	37.54	1.610	NO	2.5515e4	1.3047e5	10.000	2.2	10.0	0.957	0.0957
21	21	Endrin	38.94	1.475	NO	1.0895e4	5.3413e4	10.000	7.4	10.5	0.933	0.0975
22	22	cis-Nonachlor	39.23	1.654	NO	1.2075e4	6.5200e4	10.000	-3.1	12.2	0.956	0.117
23	23	Endosulfan II (beta)	39.95	1.598	NO	8.2285e3	1.7824e4	15.000	6.8	19.8	1.06	0.212
24	24	2,4'-DDD	38.18	1.631	NO	1.7650e5	9.5527e5	10.000	0.8	9.76	0.915	0.0893
25	25	2,4'-DDT	39.31	1.614	NO	1.0451e5	5.6881e5	10.000	-0.1	12.6	0.921	0.116
26	26	4,4'-DDD	39.44	1.611	NO	1.4958e5	7.3427e5	10.000	1.4	10.1	1.00	0.101
27	27	4,4'-DDT	40.51	1.458	NO	8.4008e4	4.1489e5	10.000	2.8	9.88	0.987	0.0975
28	28	Endosulfan Sulfate	41.68	1.410	NO	8.6070e3	3.1191e4	15.000	-0.8	14.2	0.927	0.131
29	29	4,4'-Methoxychlor	43.54	6.051	NO	1.3092e5	3.8629e6	15.000	-0.6	10.6	1.14	0.120
30	30	Mirex	44.11	1.469	NO	5.4663e4	3.0294e5	10.000	-3.2	11.1	0.932	0.103
31	31	Endrin Aldehyde	41.08	0.649	NO	1.6591e4	5.7292e5	15.000	-1.0	9.50	0.975	0.0926
32	32	Endrin Ketone	44.25	0.667	NO	1.0325e4	3.7719e5	15.000	0.2	11.1	0.911	0.101
33	33	13C4-Hexachlorobutadiene	10.21	1.274	NO	2.9898e6	1.8386e6	50.000	17.7	17.5	0.138	0.0241
34	34	13C6-Hexachlorobenzene	22.83	1.289	NO	1.2845e6	1.8386e6	50.000	1.1	2.01	0.691	0.0139
35	35	13C8-Alpha-BHC	23.37	0.785	NO	4.5241e5	1.8386e6	50.000	0.1	2.06	0.246	0.00506
36	36	13C8-Lindane (gamma)	26.63	0.786	NO	3.3795e5	1.8386e6	50.000	-2.9	7.50	0.189	0.0142
37	37	13C8-Beta-BHC	28.72	0.792	NO	2.5880e5	1.8386e6	50.000	-0.7	4.17	0.141	0.00587
38	38	13C8-Delta-BHC	30.41	0.783	NO	2.9764e5	1.8386e6	50.000	-1.5	4.21	0.164	0.00692
39	39	13C10-Heptachlor	28.83	1.284	NO	1.2924e5	1.8386e6	50.000	-8.7	9.17	0.0770	0.00705
40	40	13C12-Aldrin	30.97	1.682	NO	2.1852e5	1.8386e6	50.000	-3.1	3.19	0.122	0.00388

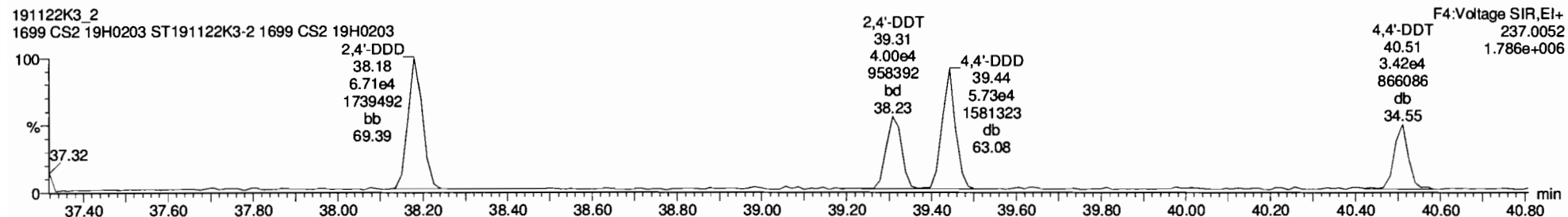
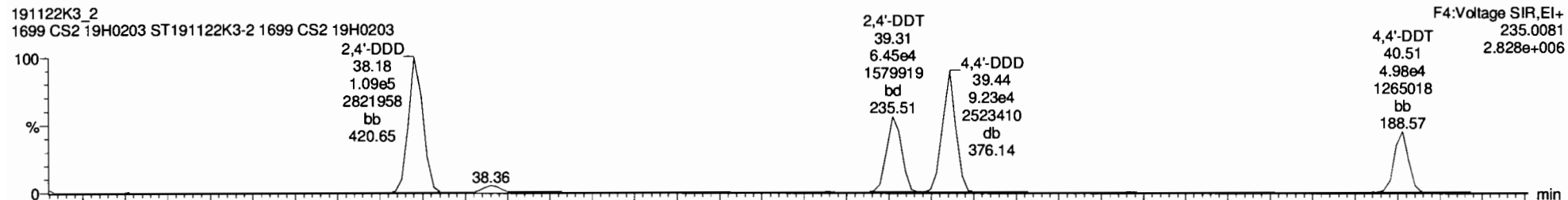


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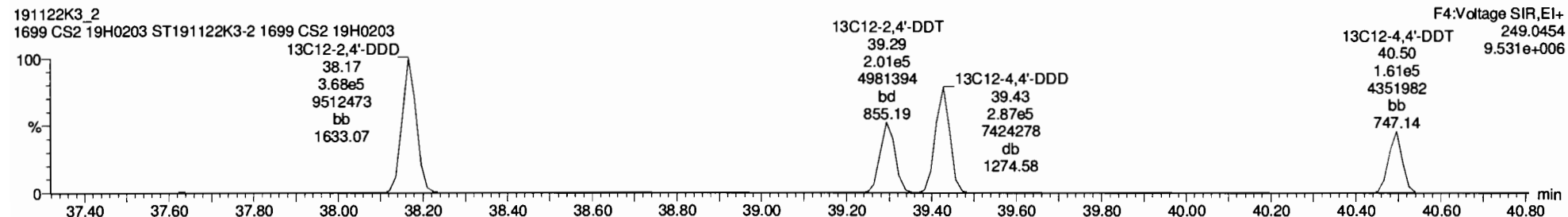
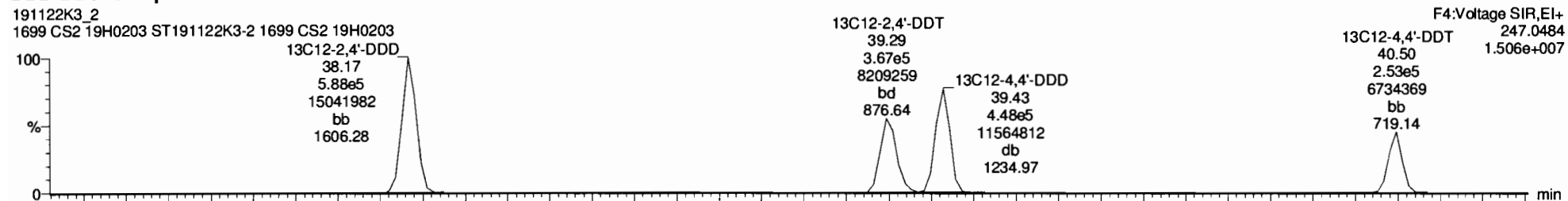
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Name: 191122K3_2, Date: 22-Nov-2019, Time: 16:51:16, ID: ST191122K3-2 1699 CS2 19H0203, Description: 1699 CS2 19H0203

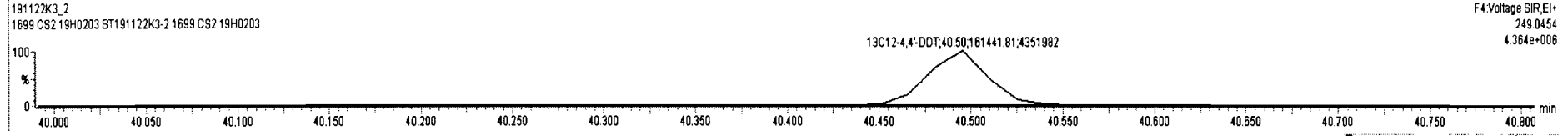
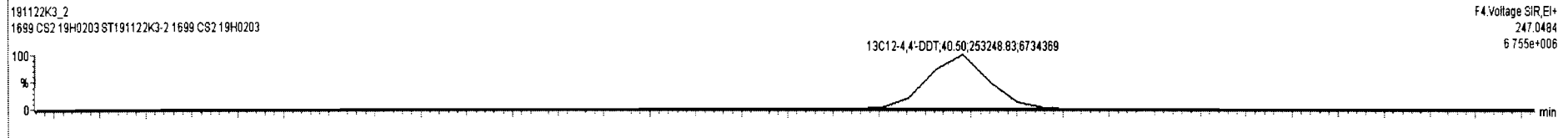
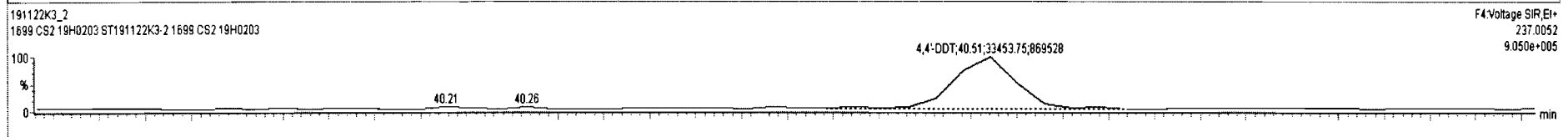
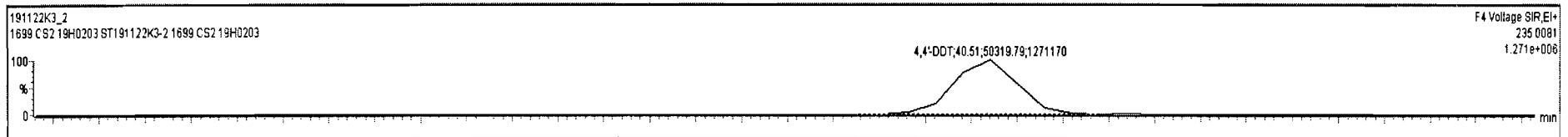
DDD-DDT



DDD-DDT-isotopes



#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RFI M.	RFI SD
18	2,4'-DDE	35.96	1.303	NO	2.3218e5	1.3456e6	10.000	1.0	10.0	0.854	0.0655
19	4,4'-DDE	37.04	1.374	NO	1.6789e5	9.3035e5	10.000	3.4	10.3	0.873	0.0696
20	Dieldrin	37.54	1.610	NO	2.5515e4	1.3047e5	10.000	2.2	10.0	0.957	0.0957
21	Endrin	38.94	1.475	NO	1.0695e4	5.3413e4	10.000	7.4	10.5	0.933	0.0975
22	cis-Nonachlor	39.23	1.654	NO	1.2075e4	6.5200e4	10.000	-3.1	12.2	0.956	0.117
23	Endosulfan I (beta)	39.95	1.598	NO	6.2265e3	1.7924e4	15.000	8.8	19.9	1.06	0.212
24	2,4'-DDD	39.18	1.631	NO	1.7650e5	9.5627e5	10.000	0.8	9.76	0.915	0.0693
25	2,4'-DDT	39.31	1.614	NO	1.0451e5	5.6851e5	10.000	-0.1	12.6	0.921	0.116
26	4,4'-DDD	39.44	1.611	NO	1.4956e5	7.3427e5	10.000	1.4	10.1	1.00	0.101
27	4,4'-DDT	40.21	1.504	NO	8.3774e4	4.1488e5	10.000	2.4	8.87	0.996	0.0974
28	Endosulfan Sulfate	41.68	1.410	NO	8.6070e3	3.1191e4	15.000	-0.8	14.2	0.927	0.131
29	4,4'-Methoxychlor	43.54	6.051	NO	1.3092e5	3.8629e6	15.000	-0.6	10.6	1.14	0.120
30	Mirex	44.11	1.469	NO	5.4663e4	3.0294e5	10.000	-3.2	11.1	0.932	0.103
31	Endrin Aldehyde	41.08	0.649	NO	1.6591e4	5.7292e5	15.000	-1.0	9.50	0.975	0.0926
32	Endrin Ketone	44.25	0.667	NO	1.0325e4	3.7719e5	15.000	0.2	11.1	0.911	0.101
33	13C4-Hexachlorobutadiene	10.21	1.274	NO	2.9898e5	1.8386e6	50.000	17.7	17.5	0.138	0.0241
34	13C6-Hexachlorobenzene	22.83	1.269	NO	1.2845e6	1.8386e6	50.000	1.1	2.01	0.691	0.0139
35	13C6-Alpha-BHC	23.37	0.785	NO	4.5241e5	1.8386e6	50.000	0.1	2.06	0.246	0.00506
36	13C6-Lindene (gamma)	26.63	0.786	NO	3.3795e5	1.8386e6	50.000	-2.9	7.50	0.189	0.0142
37	13C6-Beta-BHC	28.72	0.792	NO	2.5880e5	1.8386e6	50.000	-0.7	4.17	0.141	0.00587
38	13C6-Delta-BHC	30.41	0.783	NO	2.9764e5	1.8386e6	50.000	-1.5	4.21	0.164	0.00692
39	13C10-Heptachlor	28.83	1.284	NO	1.2924e5	1.8386e6	50.000	-8.7	9.17	0.0770	0.00705
40	13C12-Aldrin	30.97	1.692	NO	2.1652e5	1.8386e6	50.000	-3.1	3.19	0.122	0.00388



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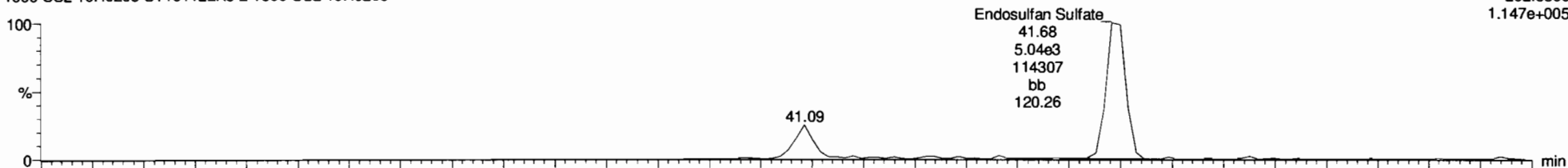
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Name: 191122K3_2, Date: 22-Nov-2019, Time: 16:51:16, ID: ST191122K3-2 1699 CS2 19H0203, Description: 1699 CS2 19H0203

Endosulfan Sulfate

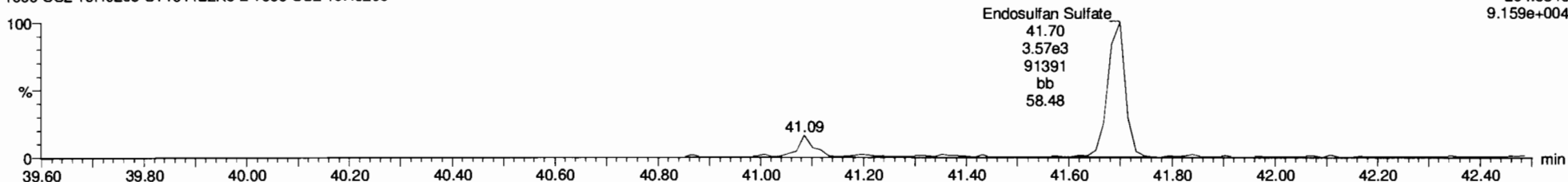
191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

F5:Voltage SIR,EI+
262.8569
1.147e+005



191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

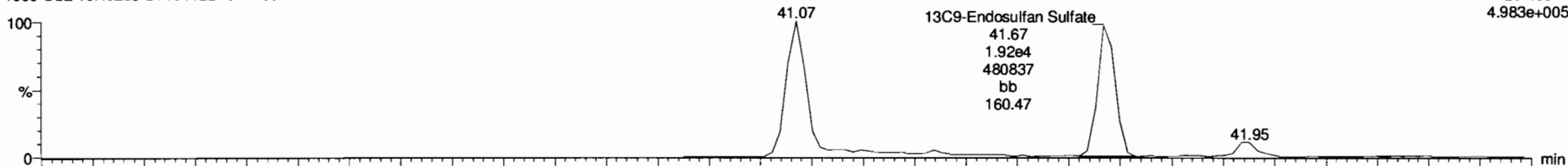
F5:Voltage SIR,EI+
264.8540
9.159e+004



13C9-Endosulfan Sulfate

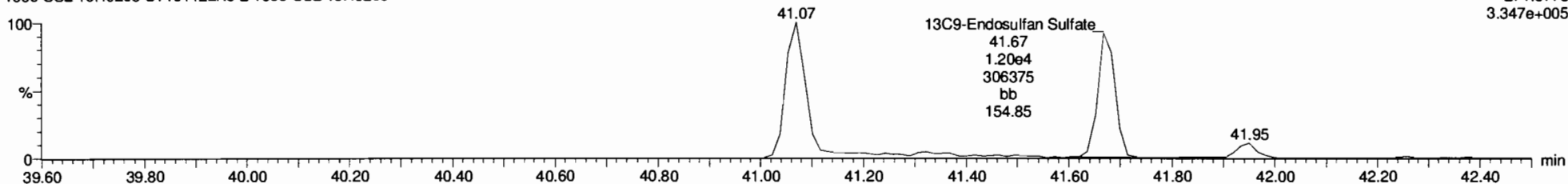
191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

F5:Voltage SIR,EI+
269.8804
4.983e+005

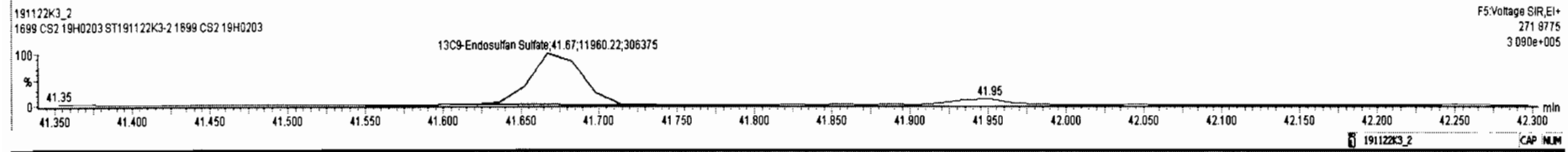
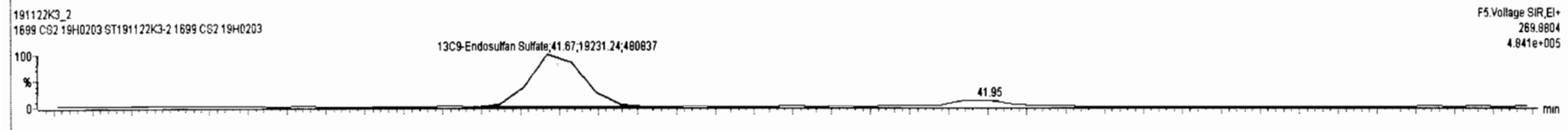
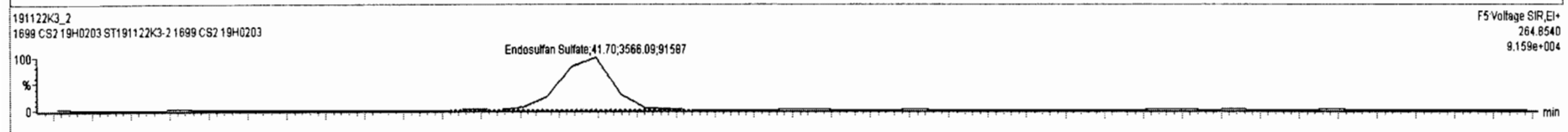
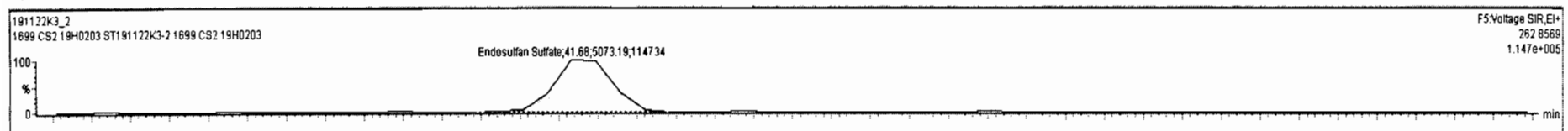


191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

F5:Voltage SIR,EI+
271.8775
3.347e+005



P.	Name	RT	RA	Yth	Area	IS Area	Std. Conc	%Dev	MRSD	RRF M.	RRF SD
18	2,4-DDE	35.96	1.303	NO	2.3218e5	1.3456e6	10.000	1.0	10.0	0.854	0.0955
19	4,4'-DDE	37.04	1.374	NO	1.6789e5	9.3035e5	10.000	3.4	10.3	0.873	0.0898
20	Dieldrin	37.54	1.610	NO	2.5515e4	1.3047e5	10.000	2.2	10.0	0.957	0.0957
21	Endrin	38.94	1.475	NO	1.0695e4	5.3413e4	10.000	7.4	10.5	0.933	0.0975
22	cis-Norachlor	39.23	1.654	NO	1.2075e4	6.5200e4	10.000	-3.1	12.2	0.956	0.117
23	Endosulfan II (beta)	39.95	1.598	NO	6.2265e3	1.7924e4	15.000	8.8	19.9	1.06	0.212
24	2,4'-DDD	38.18	1.631	NO	1.7650e5	9.5627e5	10.000	0.8	9.76	0.915	0.0893
25	2,4'-DDT	39.31	1.614	NO	1.0451e5	5.6851e5	10.000	-0.1	12.6	0.921	0.116
26	4,4'-DDD	38.44	1.611	NO	1.4956e5	7.3427e5	10.000	1.4	10.1	1.00	0.101
27	4,4'-DDT	40.51	1.504	NO	8.3774e4	4.1469e5	10.000	2.4	9.87	0.986	0.0974
28	Endosulfan Sulfate	41.68	1.429	NO	8.6363e3	3.1191e4	15.000	-0.5	14.2	0.928	0.131
29	4,4'-Methoxychlor	43.54	6.051	NO	1.3092e5	3.8629e6	15.000	-0.6	10.6	1.14	0.120
30	Mirex	44.11	1.469	NO	5.4663e4	3.0294e5	10.000	-3.2	11.1	0.932	0.103
31	Endrin Aldehyde	41.08	0.649	NO	1.6591e4	5.7292e5	15.000	-1.0	9.50	0.975	0.0928
32	Endrin Ketone	44.25	0.687	NO	1.0325e4	3.7719e5	15.000	0.2	11.1	0.911	0.101
33	13C4-Hexachlorobutadiene	10.21	1.274	NO	2.9898e6	1.8386e6	500.000	17.7	17.5	0.138	0.0241
34	13C5-Hexachlorobenzene	22.83	1.269	NO	1.2945e6	1.8386e6	50.000	1.1	2.01	0.691	0.0139
35	13C8-Alpha-BHC	23.37	0.785	NO	4.5241e5	1.8386e6	50.000	0.1	2.06	0.246	0.00506
36	13C8-Lindane (gamma)	26.63	0.786	NO	3.3795e5	1.8386e6	50.000	-2.9	7.50	0.189	0.0142
37	13C8-Beta-BHC	28.72	0.792	NO	2.5680e5	1.8386e6	50.000	-0.7	4.17	0.141	0.00587
38	13C8-Delta-BHC	30.41	0.783	NO	2.9764e5	1.8386e6	50.000	-1.5	4.21	0.164	0.00692
38	13C10-Heptachlor	28.83	1.284	NO	1.2924e5	1.8386e6	50.000	-8.7	9.17	0.0770	0.00705
40	13C12-Aldrin	30.97	1.692	NO	2.1652e5	1.8386e6	50.000	-3.1	3.19	0.122	0.00388



Dataset: Untitled

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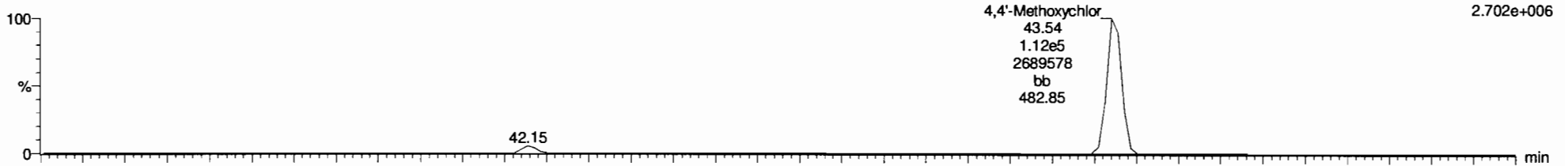
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Name: 191122K3_2, Date: 22-Nov-2019, Time: 16:51:16, ID: ST191122K3-2 1699 CS2 19H0203, Description: 1699 CS2 19H0203

4,4'-Methoxychlor

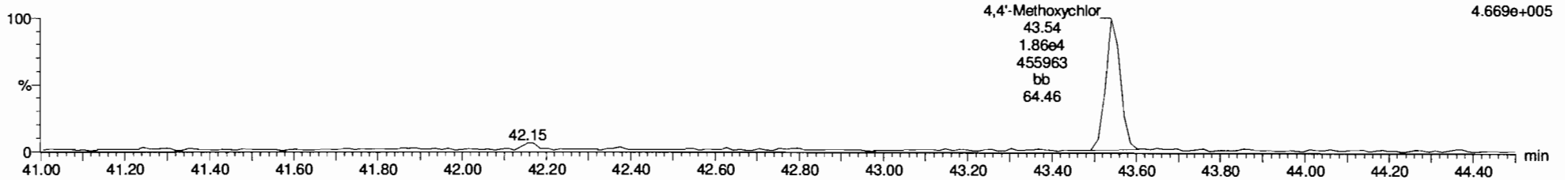
191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

F5:Voltage SIR,EI+
227.1072
2.702e+006



191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

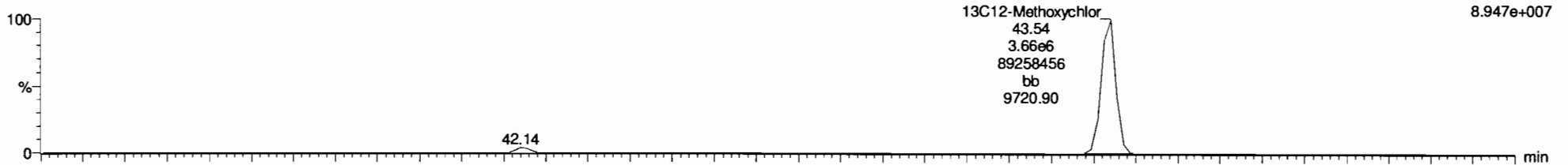
F5:Voltage SIR,EI+
228.1106
4.669e+005



13C12-Methoxychlor

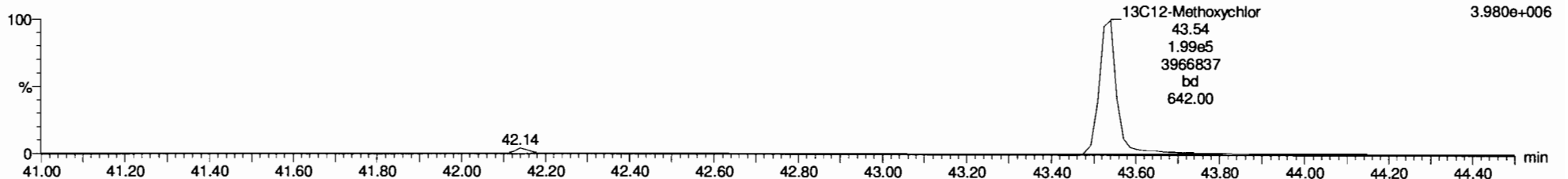
191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

F5:Voltage SIR,EI+
239.1475
8.947e+007



191122K3_2
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F5:Voltage SIR,EI+
240.1508
3.980e+006



Dataset: Untitled

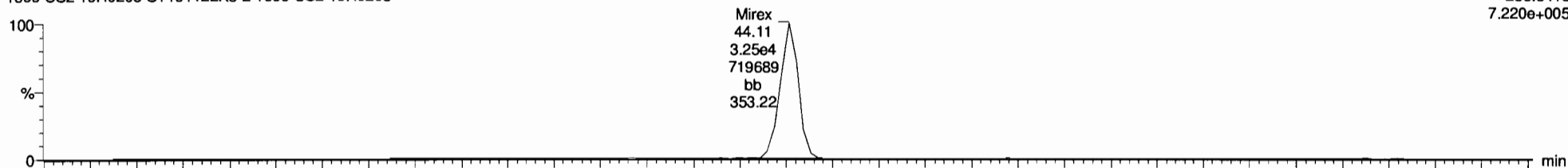
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Name: 191122K3_2, Date: 22-Nov-2019, Time: 16:51:16, ID: ST191122K3-2 1699 CS2 19H0203, Description: 1699 CS2 19H0203

Mirex

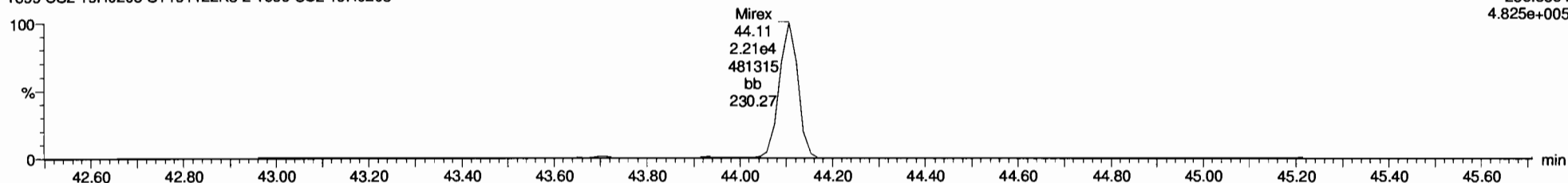
191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

F5:Voltage SIR,EI+
236.8413
7.220e+005



191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

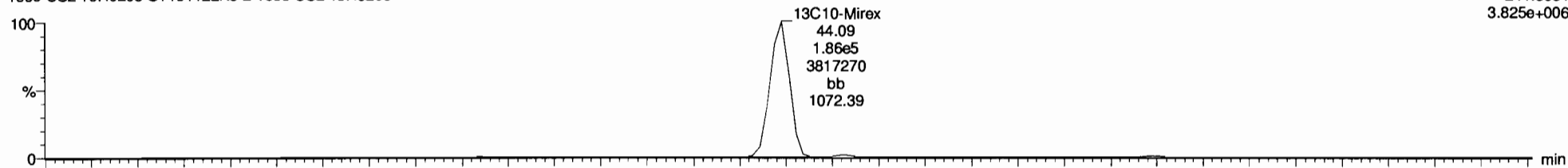
F5:Voltage SIR,EI+
238.8384
4.825e+005



13C10-Mirex

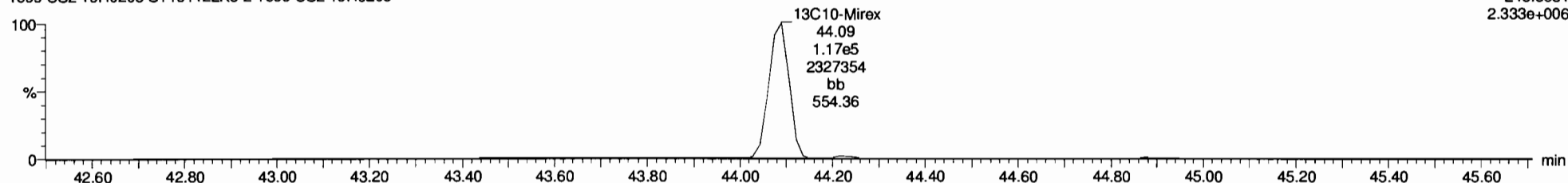
191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

F5:Voltage SIR,EI+
241.8581
3.825e+006



191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

F5:Voltage SIR,EI+
243.8551
2.333e+006



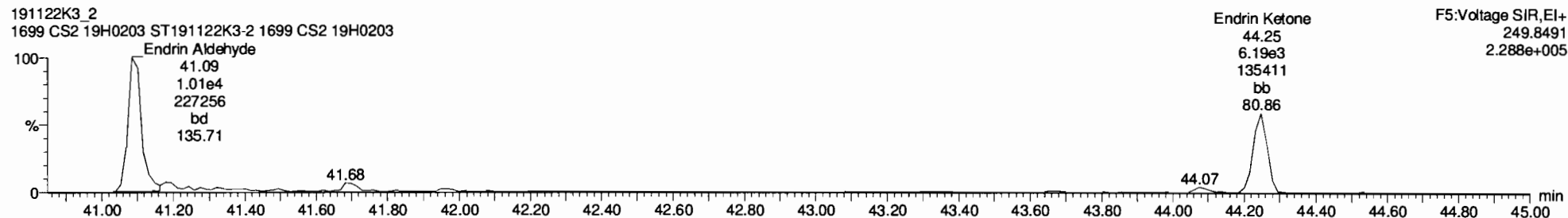
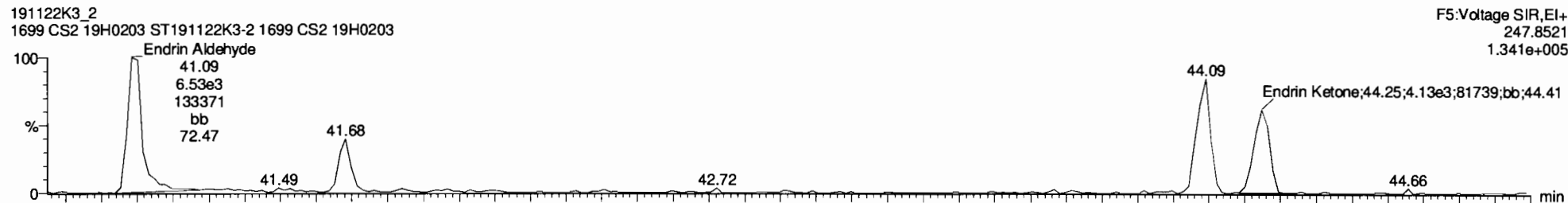
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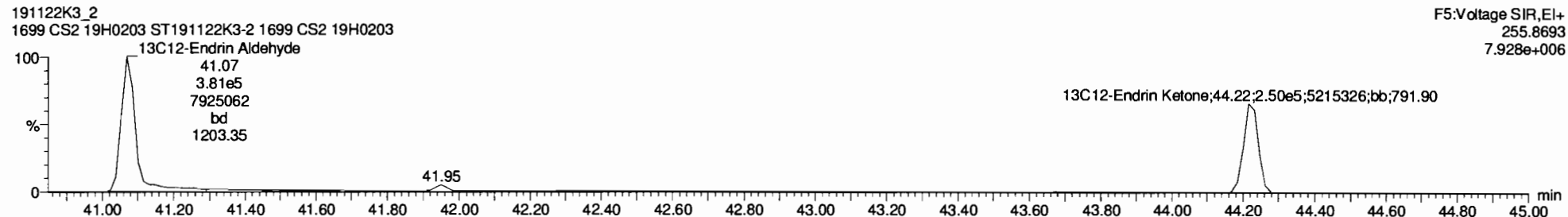
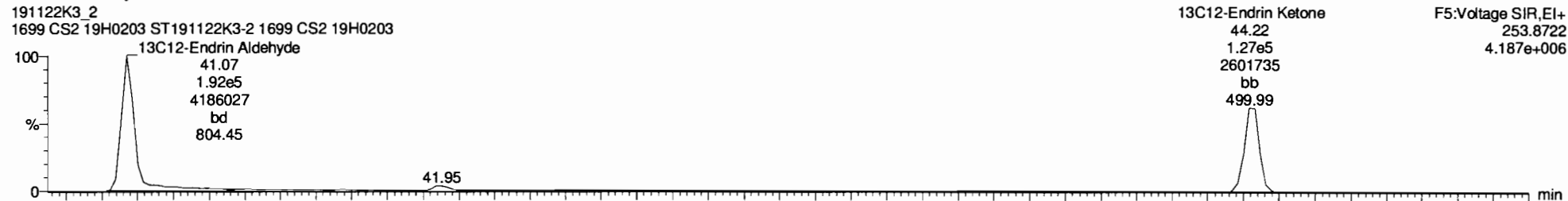
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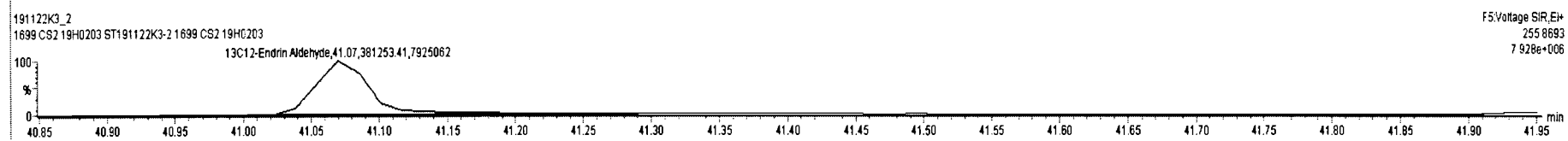
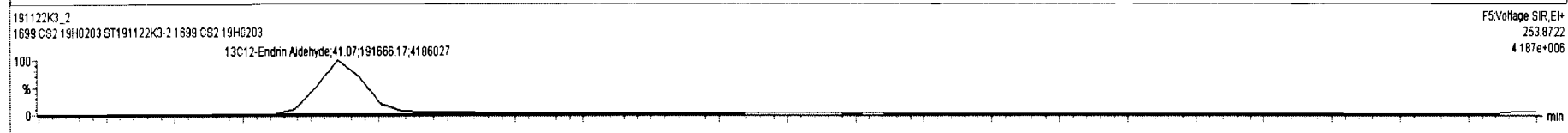
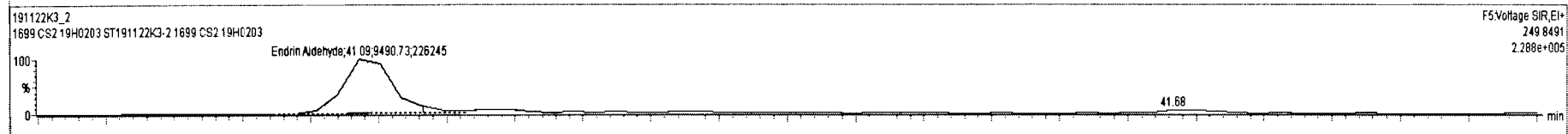
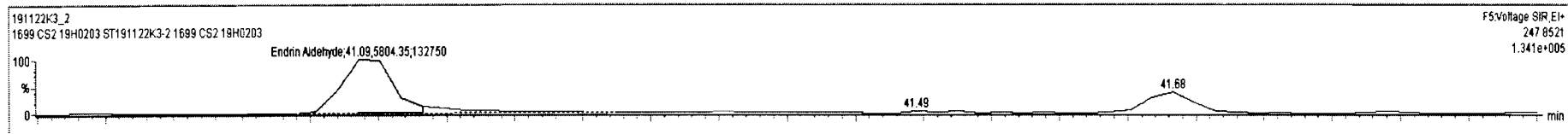
EA-EK



EA-EK-isotopes



#	Name	RT	RA	y/n	Area	IS Area	Std. Conc.	%Dev	%RSD	RPF M.	RPF SD
18	2,4'-DDE	35.96	1.303	NO	2.3216e5	1.3456e6	10.000	1.0	10.0	0.854	0.0655
19	4,4'-DDE	37.04	1.374	NO	1.6789e5	9.3035e5	10.000	3.4	10.3	0.873	0.0698
20	Dieldrin	37.54	1.610	NO	2.5515e4	1.3047e5	10.000	2.2	10.0	0.957	0.0957
21	Endrin	38.94	1.475	NO	1.0695e4	5.3413e4	10.000	7.4	10.5	0.933	0.0975
22	cis-Nonachlor	39.23	1.654	NO	1.2075e4	6.5200e4	10.000	-3.1	12.2	0.966	0.1117
23	Endosulfan I (beta)	39.95	1.598	NO	6.2265e3	1.7924e4	15.000	8.8	19.9	1.06	0.212
24	2,4'-DDD	38.18	1.631	NO	1.7650e5	9.5627e5	10.000	0.8	9.76	0.915	0.0693
25	2,4'-DDT	39.31	1.614	NO	1.0451e5	5.6851e5	10.000	-0.1	12.6	0.921	0.1116
26	4,4'-DDD	39.44	1.611	NO	1.4956e5	7.3427e5	10.000	1.4	10.1	1.00	0.101
27	4,4'-DDT	40.51	1.504	NO	8.3774e4	4.1469e5	10.000	2.4	9.87	0.986	0.0974
28	Endosulfan Sulfate	41.68	1.423	NO	8.6393e3	3.1191e4	15.000	-0.5	14.2	0.926	0.131
29	4,4'-Methoxychlor	43.54	6.051	NO	1.3082e5	3.8629e5	15.000	-0.6	10.6	1.14	0.120
30	Mirex	44.11	1.469	NO	5.4663e4	3.0294e5	10.000	-3.2	11.1	0.932	0.103
31	Endrin Aldehyde	41.09	0.812	NO	1.5285e4	5.7282e5	15.000	-7.5	10.3	0.982	0.0880
32	Endrin Ketone	44.25	0.667	NO	1.0325e4	3.7719e5	15.000	0.2	11.1	0.911	0.101
33	13C4-Hexachlorobutadiene	10.21	1.274	NO	2.9698e6	1.8386e6	500.000	17.7	17.5	0.136	0.0241
34	13C6-Hexachlorobenzene	22.83	1.269	NO	1.2645e6	1.8386e6	50.000	1.1	2.01	0.691	0.0139
35	13C8-Alpha-BHC	23.37	0.785	NO	4.5241e5	1.8386e6	50.000	0.1	2.06	0.246	0.00506
36	13C8-Lindane (gamma)	26.63	0.786	NO	3.3795e5	1.8386e6	50.000	-2.9	7.50	0.189	0.0142
37	13C8-Beta-BHC	28.72	0.792	NO	2.5680e5	1.8386e6	50.000	-0.7	4.17	0.141	0.00587
38	13C8-Delta-BHC	30.41	0.783	NO	2.9764e5	1.8386e6	50.000	-1.5	4.21	0.164	0.00692
39	13C10-Heptachlor	28.83	1.284	NO	1.2924e5	1.8386e6	50.000	-8.7	9.17	0.0770	0.00705
40	13C12-Alkalin	30.97	1.692	NO	2.1652e5	1.8386e6	50.000	-3.1	3.19	0.122	0.00388



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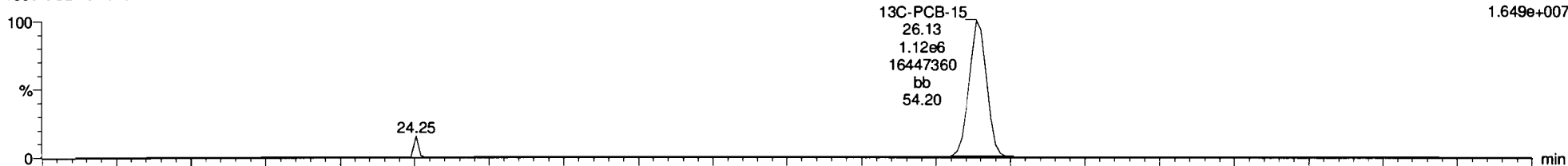
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Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_2, Date: 22-Nov-2019, Time: 16:51:16, ID: ST191122K3-2 1699 CS2 19H0203, Description: 1699 CS2 19H0203

13C-PCB-15

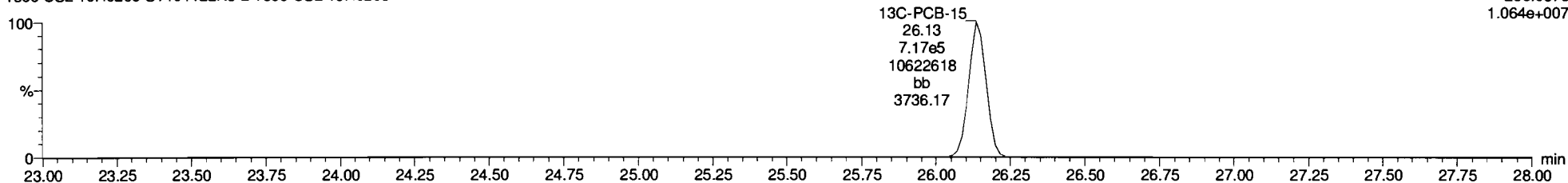
191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

F2:Voltage SIR,EI+
234.0406
1.649e+007



191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

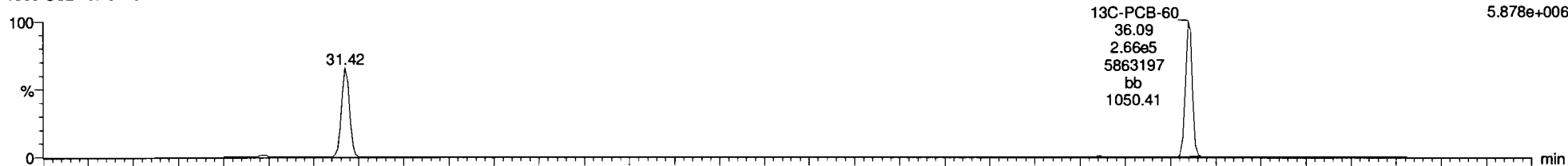
F2:Voltage SIR,EI+
236.0376
1.064e+007



13C-PCB-60

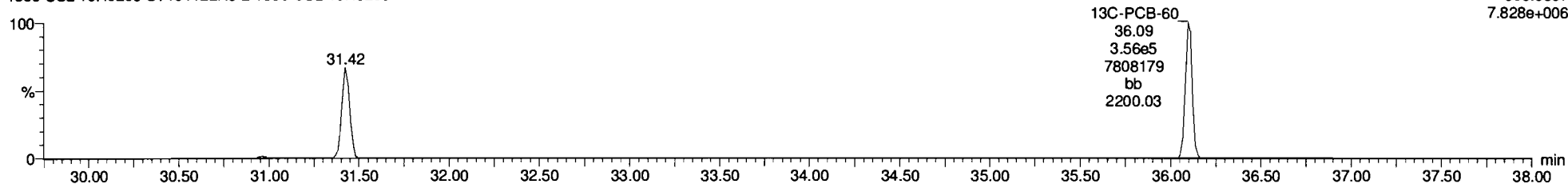
191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

F3:Voltage SIR,EI+
301.9626
5.878e+006



191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

F3:Voltage SIR,EI+
303.9597
7.828e+006



Dataset: Untitled

Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_2, Date: 22-Nov-2019, Time: 16:51:16, ID: ST191122K3-2 1699 CS2 19H0203, Description: 1699 CS2 19H0203

13C-PCB-123

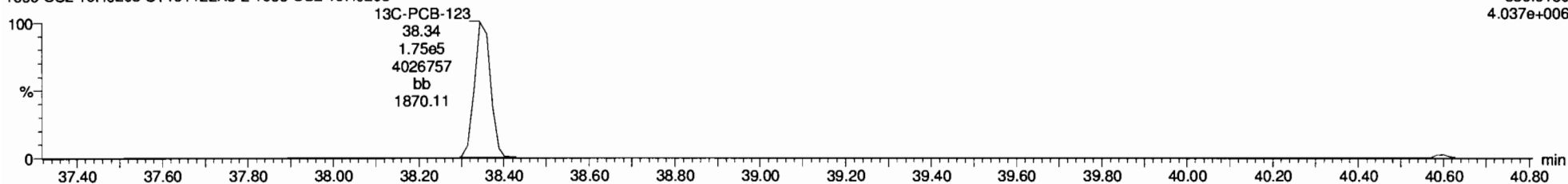
191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

F4:Voltage SIR,EI+
337.9210
5.452e+006



191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

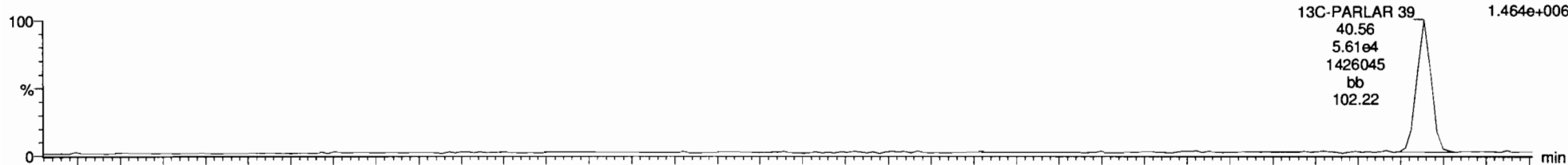
F4:Voltage SIR,EI+
339.9180
4.037e+006



13C-PARLAR 39

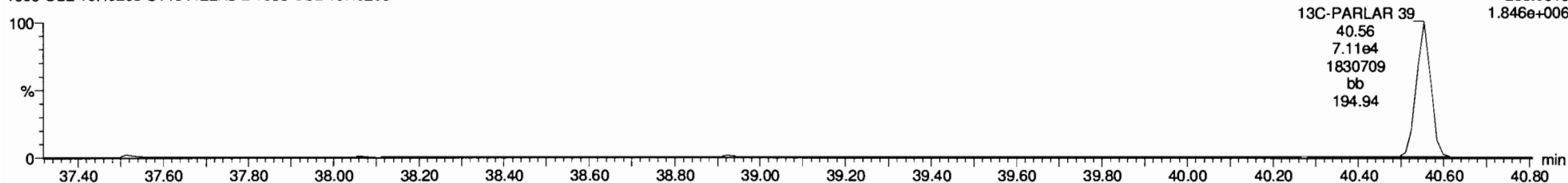
191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

F4:Voltage SIR,EI+
251.9648
1.464e+006



191122K3_2
1699 CS2 19H0203 ST191122K3-2 1699 CS2 19H0203

F4:Voltage SIR,EI+
253.9619
1.846e+006



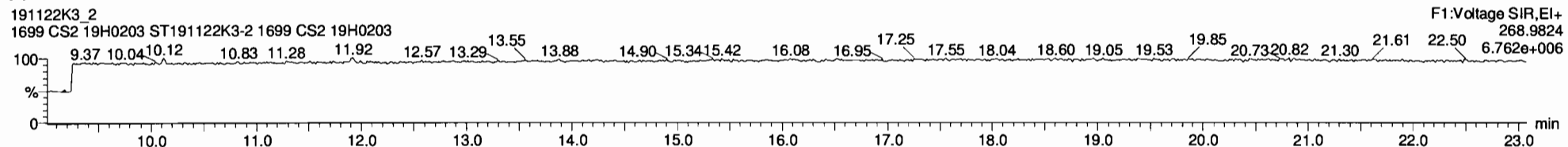
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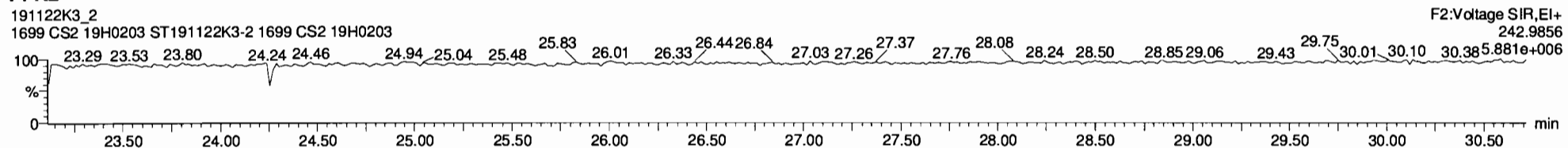
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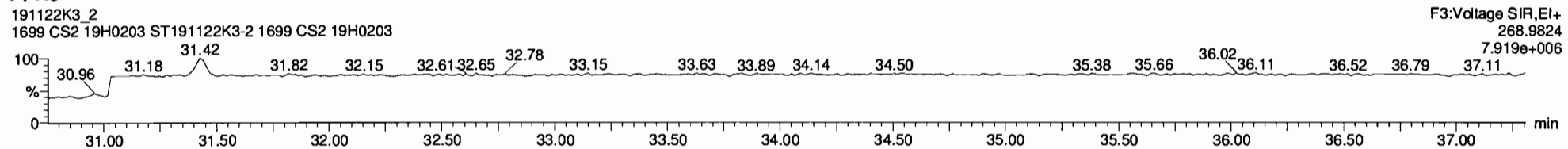
PFK1



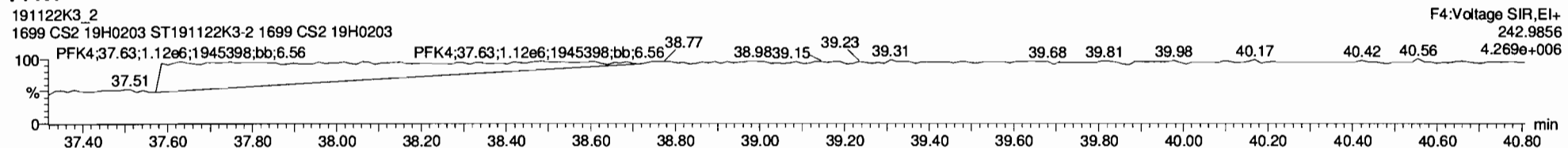
PFK2



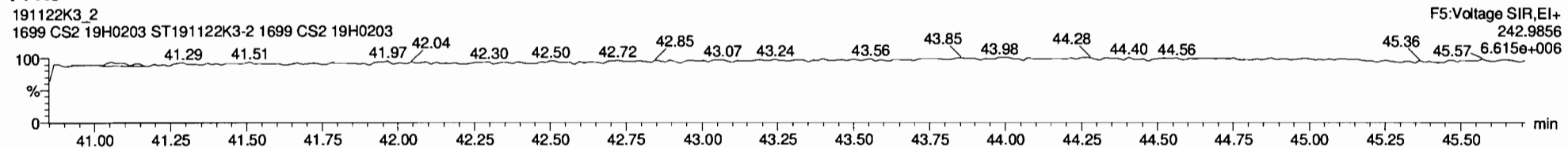
PFK3



PFK4



PFK5



Dataset: Untitled

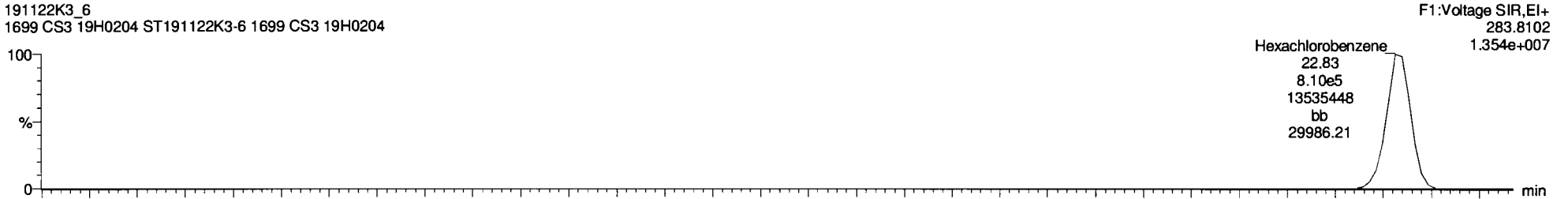
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Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

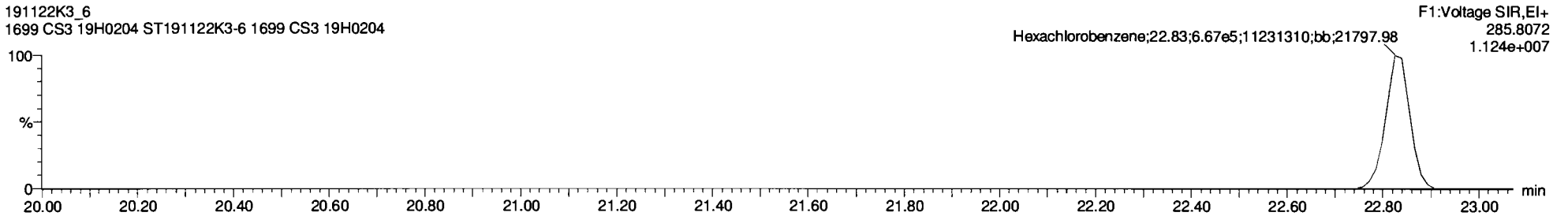
Name: 191122K3_6, Date: 22-Nov-2019, Time: 20:06:28, ID: ST191122K3-6 1699 CS3 19H0204, Description: 1699 CS3 19H0204

Hexachlorobenzene

191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

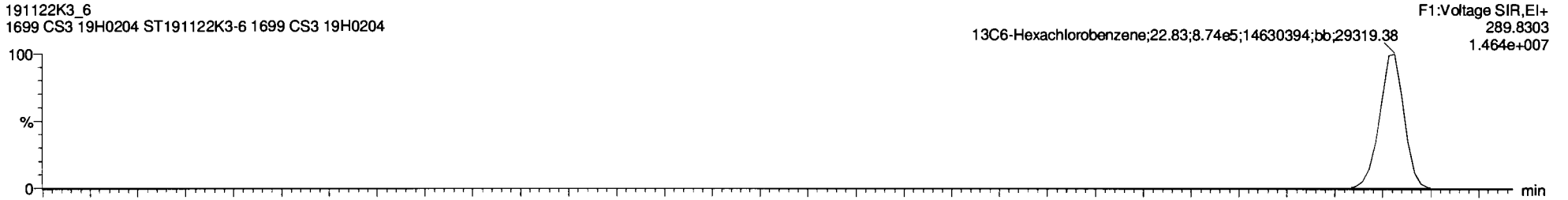


191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

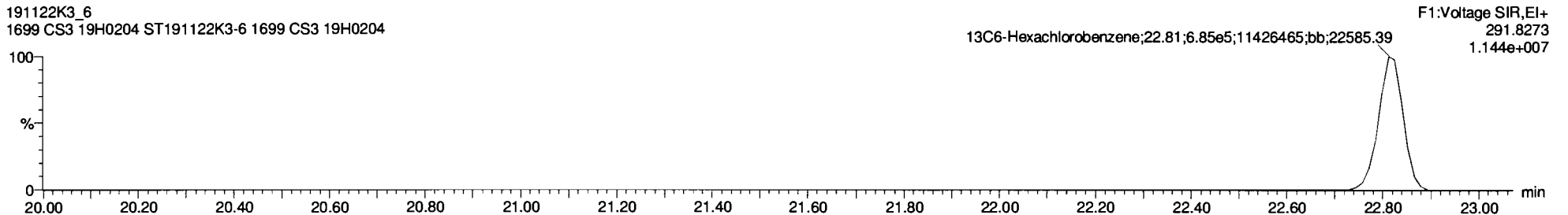


13C6-Hexachlorobenzene

191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204



191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

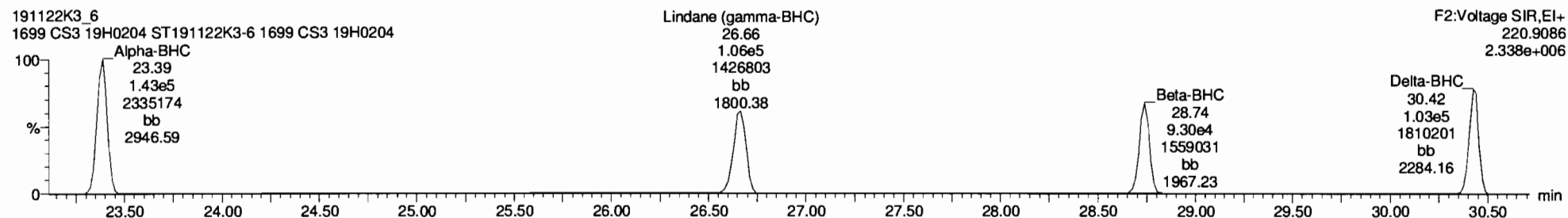
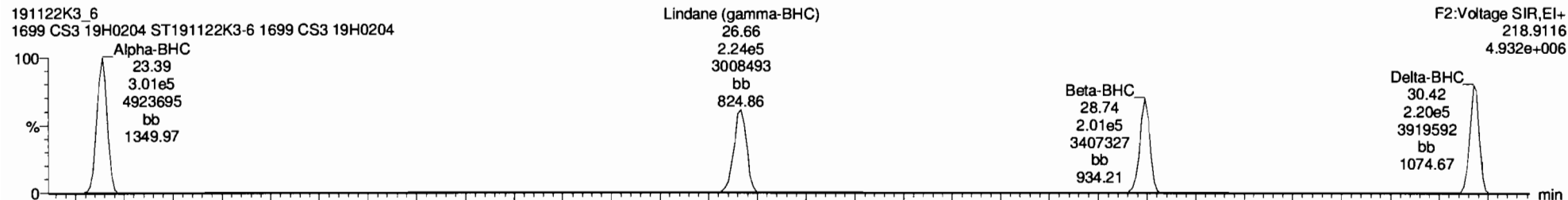


Dataset: Untitled

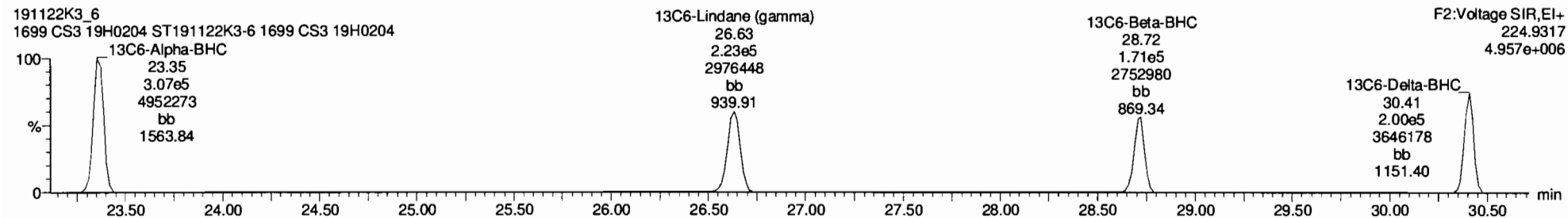
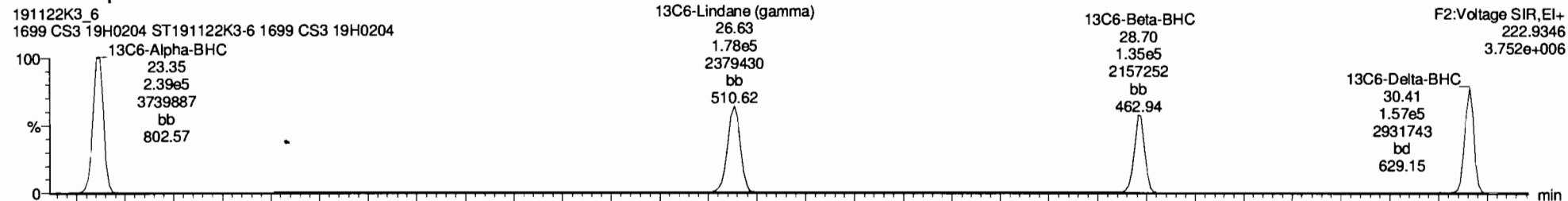
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Name: 191122K3_6, Date: 22-Nov-2019, Time: 20:06:28, ID: ST191122K3-6 1699 CS3 19H0204, Description: 1699 CS3 19H0204

BHC Totals



BHC-isotopes



Dataset: Untitled

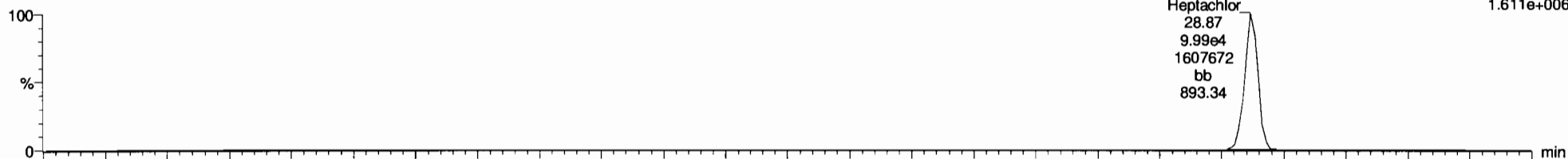
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Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_6, Date: 22-Nov-2019, Time: 20:06:28, ID: ST191122K3-6 1699 CS3 19H0204, Description: 1699 CS3 19H0204

Heptachlor

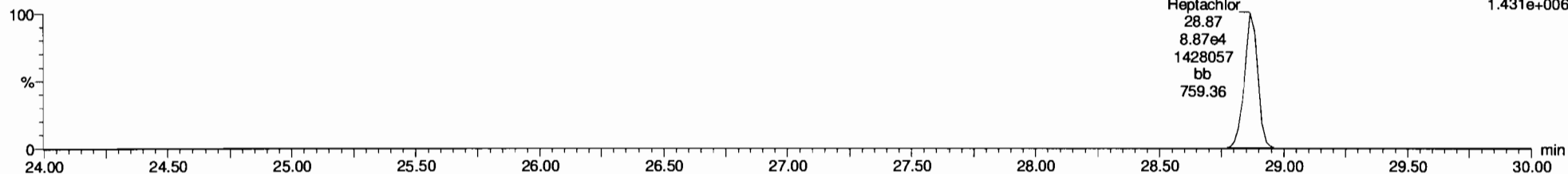
191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

F2:Voltage SIR,EI+
271.8102
1.611e+006



191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

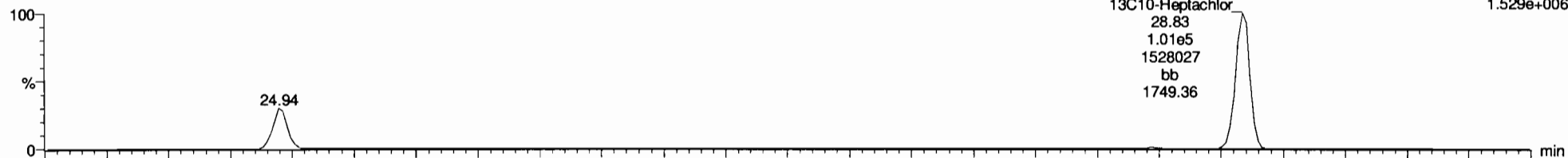
F2:Voltage SIR,EI+
273.8072
1.431e+006



13C10-Heptachlor

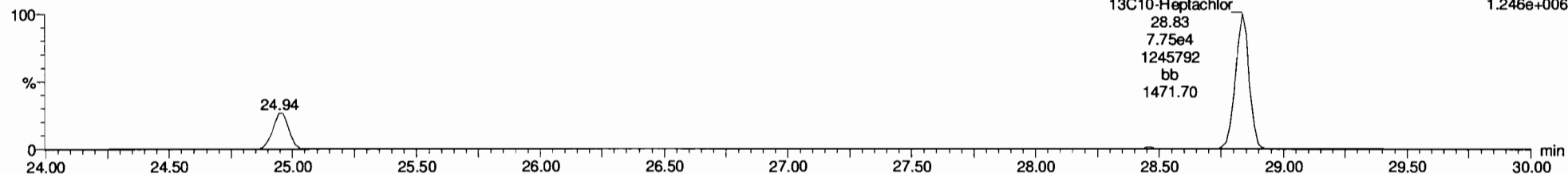
191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

F2:Voltage SIR,EI+
276.8269
1.529e+006



191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

F2:Voltage SIR,EI+
278.8240
1.246e+006



Dataset: Untitled

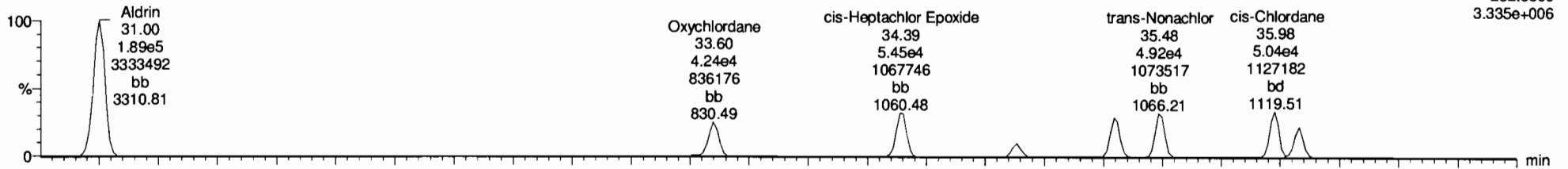
Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time
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Aldrin-EI

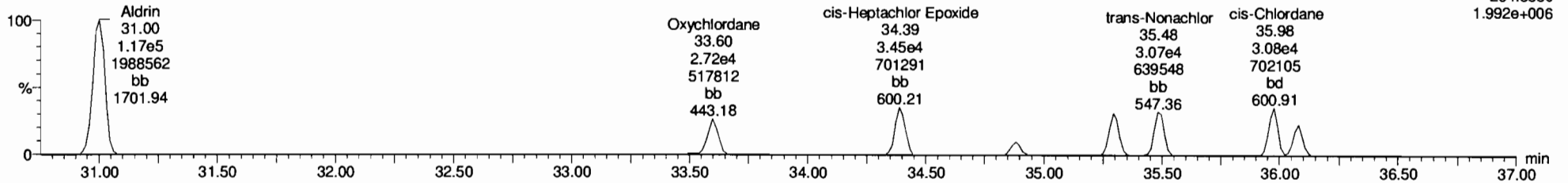
191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

F3:Voltage SIR,EI+
262.8569
3.335e+006



191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

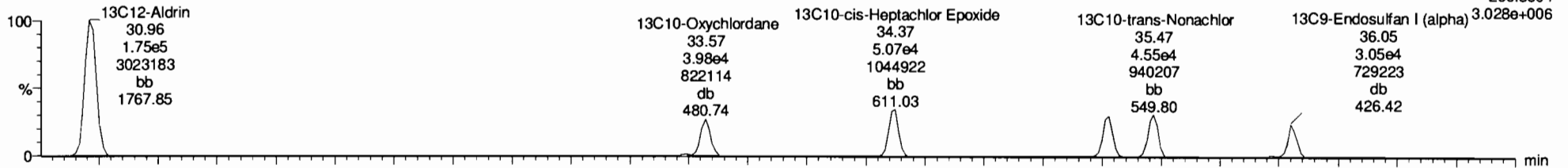
F3:Voltage SIR,EI+
264.8550
1.992e+006



Aldrin-EI-isotopes

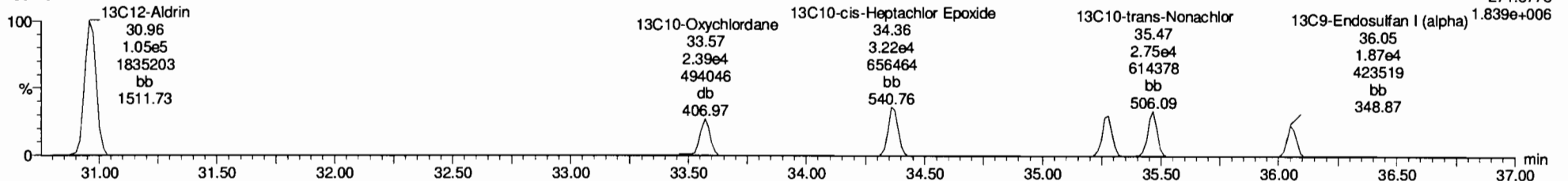
191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

F3:Voltage SIR,EI+
269.8804
3.028e+006



191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

F3:Voltage SIR,EI+
271.8775
1.839e+006



Dataset: Untitled

Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

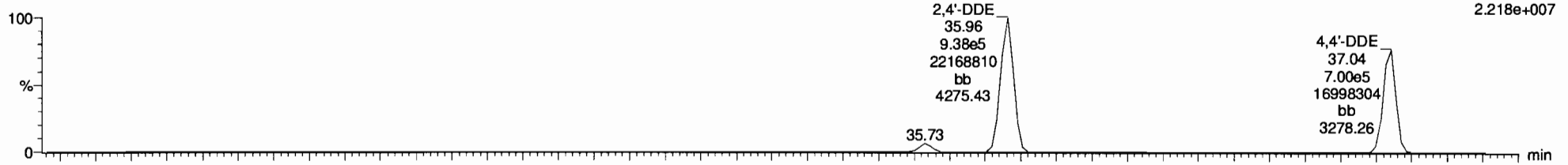
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Name: 191122K3_6, Date: 22-Nov-2019, Time: 20:06:28, ID: ST191122K3-6 1699 CS3 19H0204, Description: 1699 CS3 19H0204

DDMU-DDE

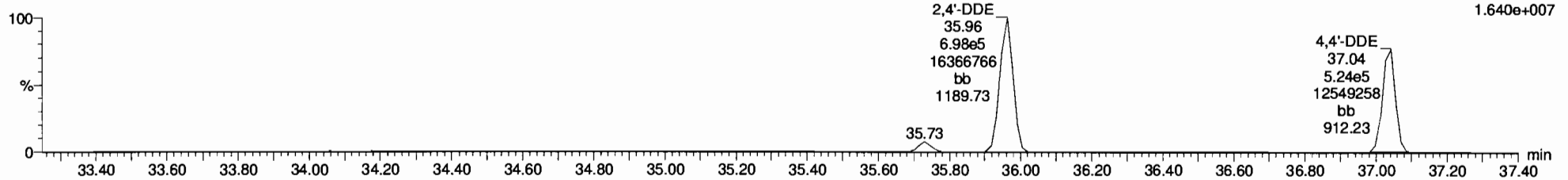
191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

F3:Voltage SIR,EI+
246.0003
2.218e+007



191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

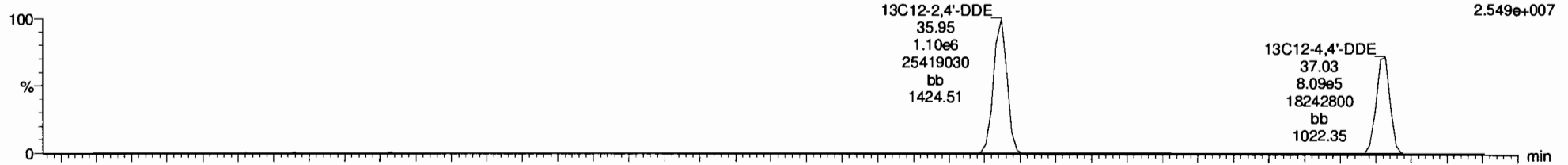
F3:Voltage SIR,EI+
247.9974
1.640e+007



DDE-isotopes

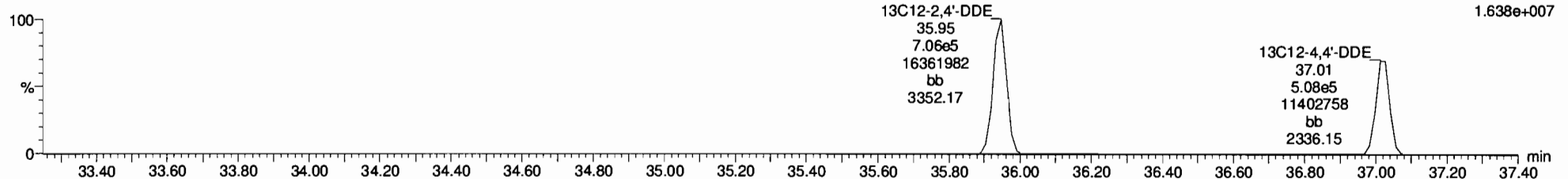
191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

F3:Voltage SIR,EI+
258.0406
2.549e+007



191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

F3:Voltage SIR,EI+
260.0376
1.638e+007



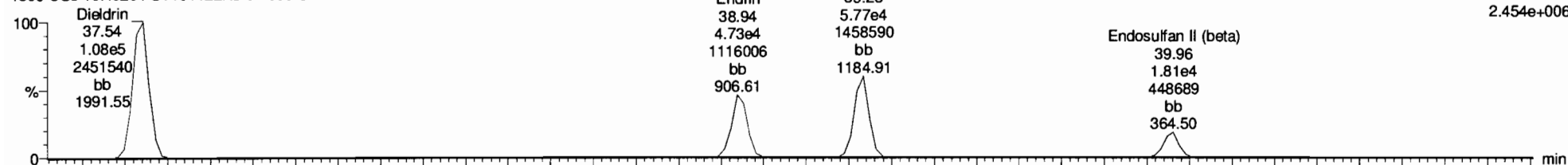
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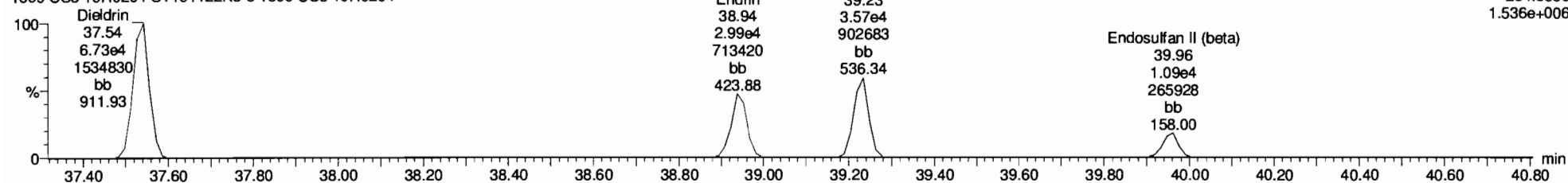
Dieldrin-EII

191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204



F4:Voltage SIR,EI+
262.8569
2.454e+006

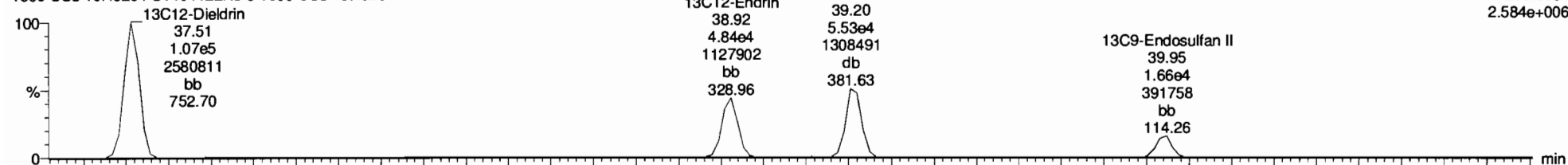
191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204



F4:Voltage SIR,EI+
264.8550
1.536e+006

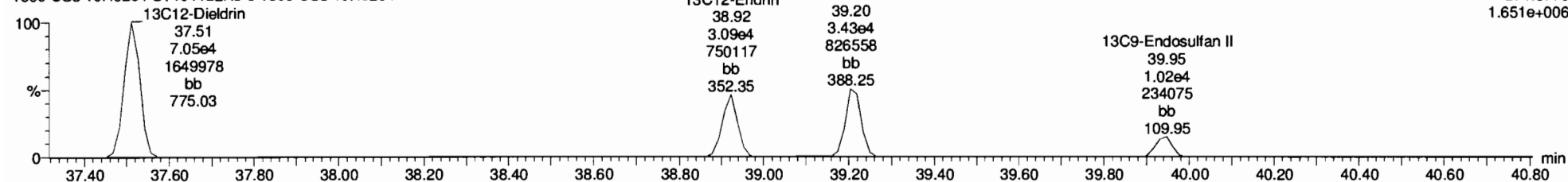
Dieldrin-EII-isotopes

191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204



F4:Voltage SIR,EI+
269.8804
2.584e+006

191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204



F4:Voltage SIR,EI+
271.8775
1.651e+006

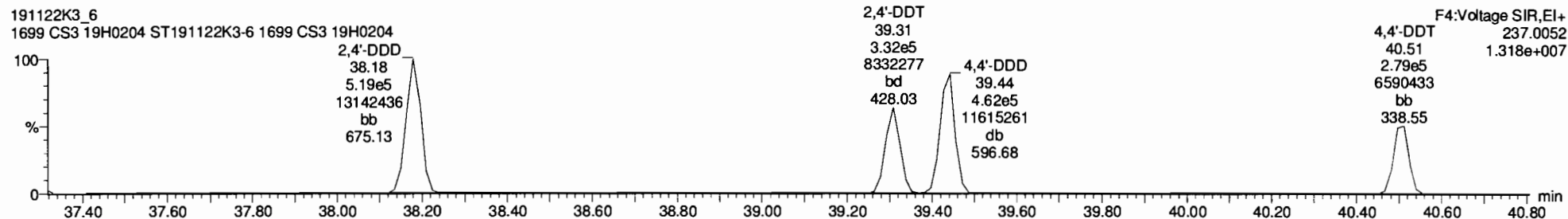
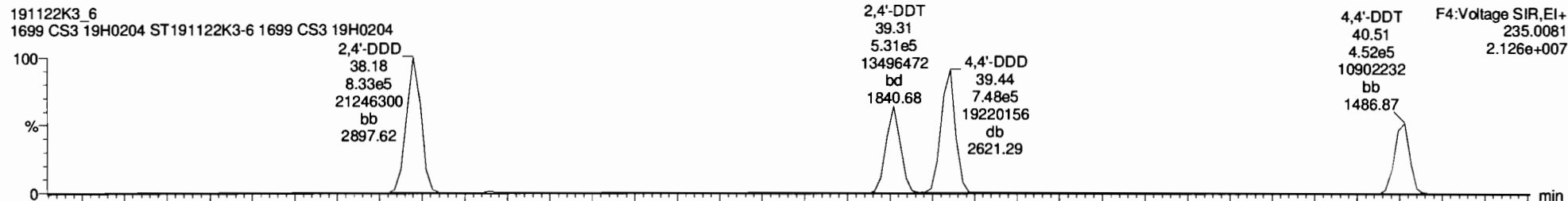
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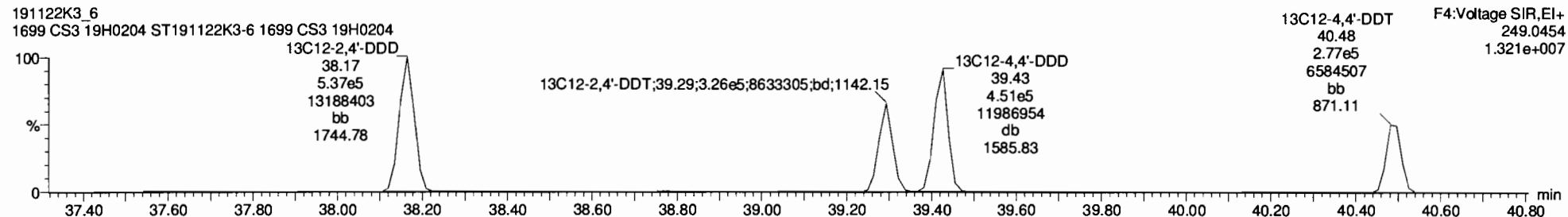
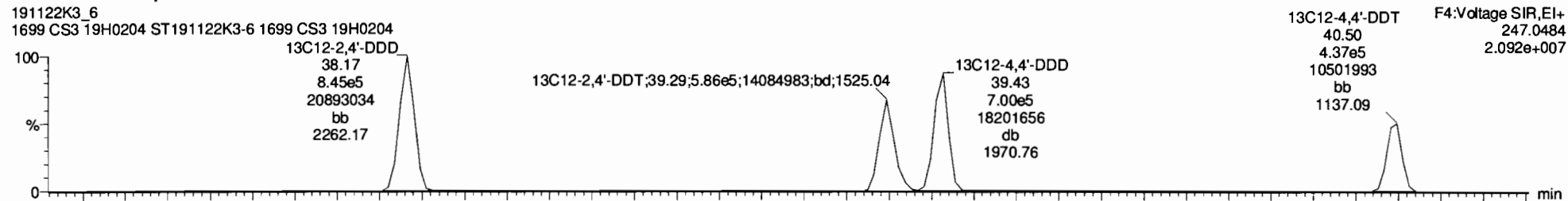
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Name: 191122K3_6, Date: 22-Nov-2019, Time: 20:06:28, ID: ST191122K3-6 1699 CS3 19H0204, Description: 1699 CS3 19H0204

DDD-DDT



DDD-DDT-isotopes



Dataset: Untitled

Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

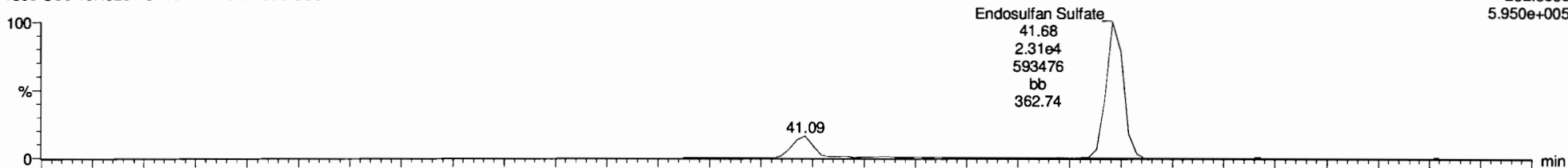
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Name: 191122K3_6, Date: 22-Nov-2019, Time: 20:06:28, ID: ST191122K3-6 1699 CS3 19H0204, Description: 1699 CS3 19H0204

Endosulfan Sulfate

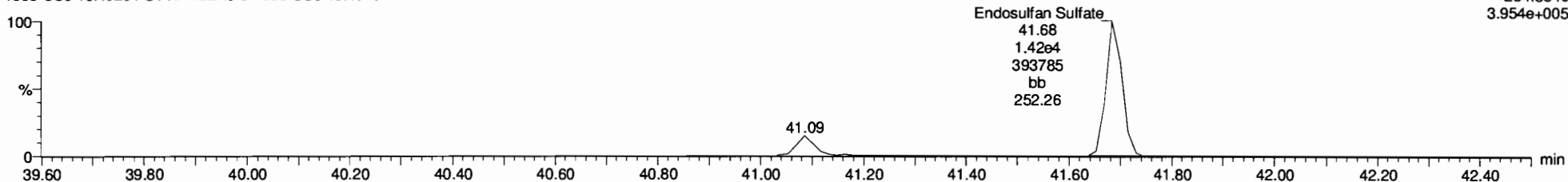
191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

F5:Voltage SIR,EI+
262.8569
5.950e+005



191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

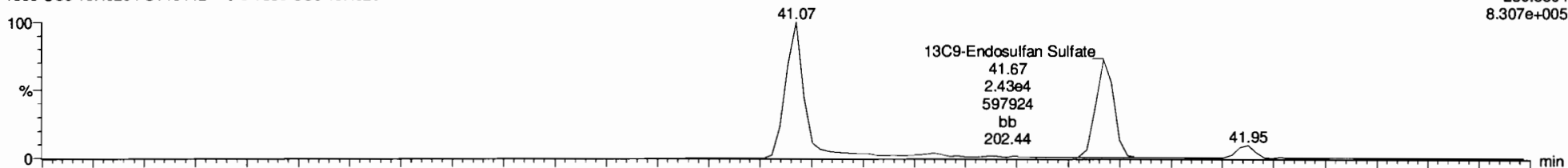
F5:Voltage SIR,EI+
264.8540
3.954e+005



13C9-Endosulfan Sulfate

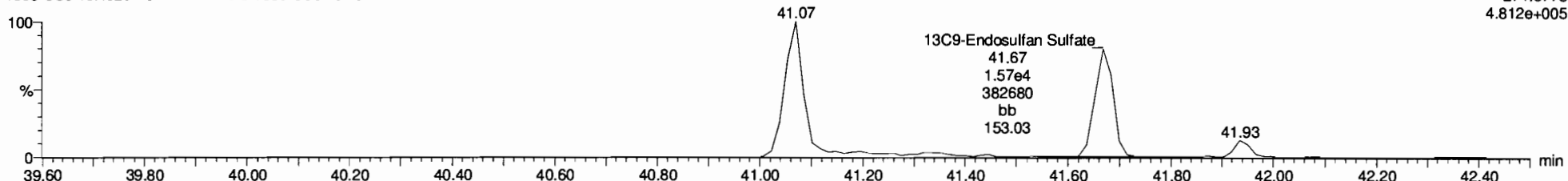
191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

F5:Voltage SIR,EI+
269.8804
8.307e+005



191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

F5:Voltage SIR,EI+
271.8775
4.812e+005



Dataset: Untitled

Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_6, Date: 22-Nov-2019, Time: 20:06:28, ID: ST191122K3-6 1699 CS3 19H0204, Description: 1699 CS3 19H0204

4,4'-Methoxychlor

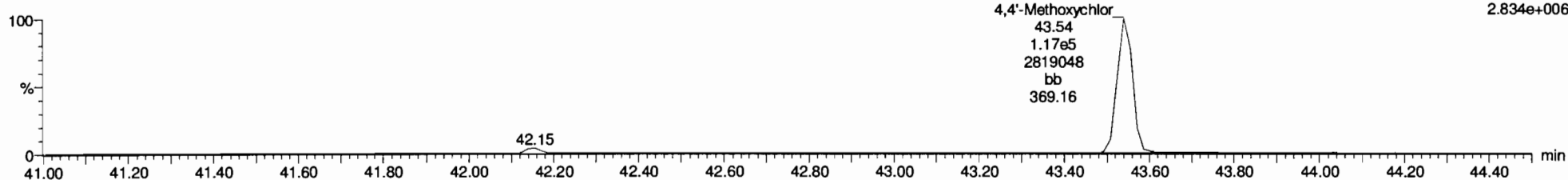
191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

F5:Voltage SIR,EI+
227.1072
1.707e+007



191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

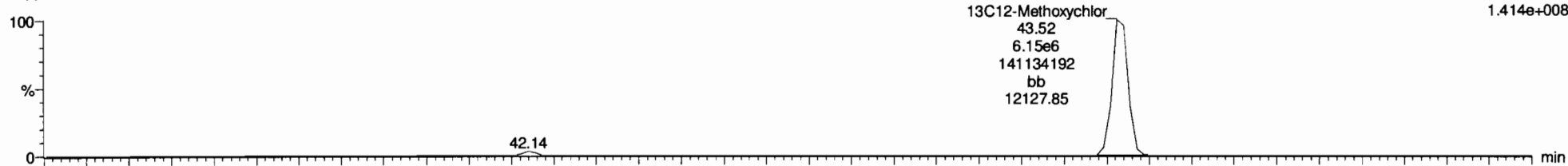
F5:Voltage SIR,EI+
228.1106
2.834e+006



13C12-Methoxychlor

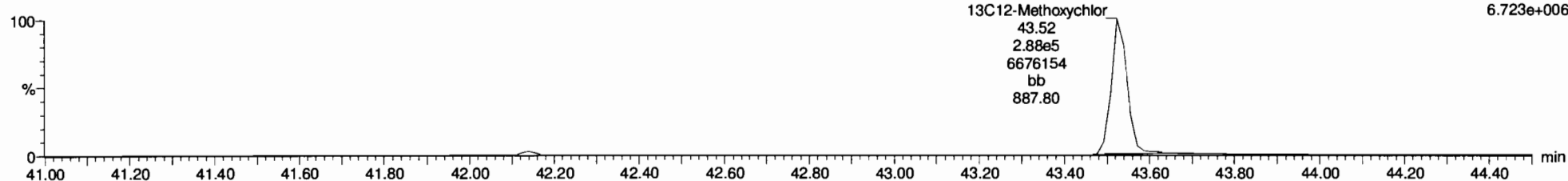
191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

F5:Voltage SIR,EI+
239.1475
1.414e+008



191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

F5:Voltage SIR,EI+
240.1508
6.723e+006



Dataset: Untitled

Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

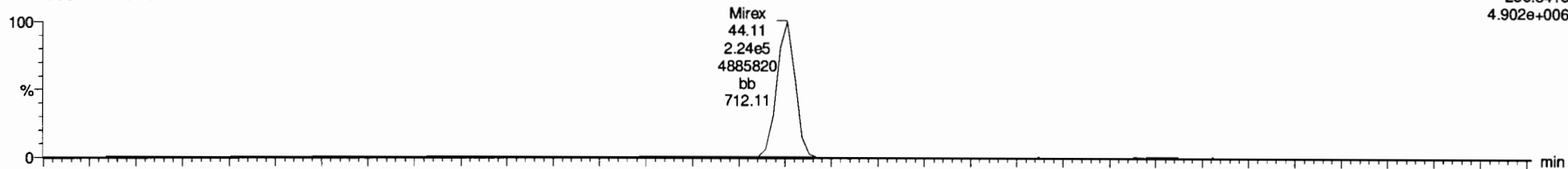
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_6, Date: 22-Nov-2019, Time: 20:06:28, ID: ST191122K3-6 1699 CS3 19H0204, Description: 1699 CS3 19H0204

Mirex

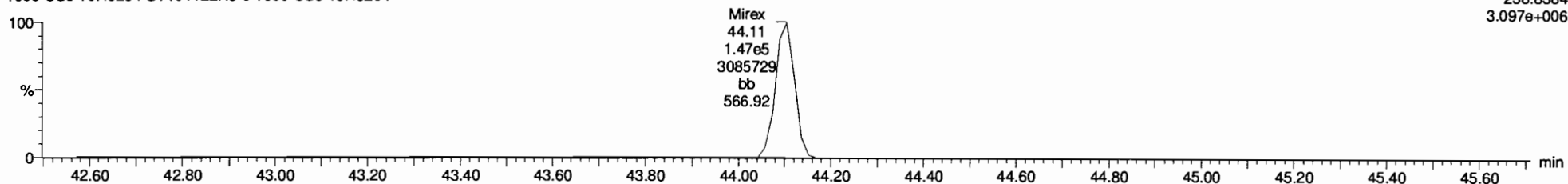
191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

F5:Voltage SIR,EI+
236.8413
4.902e+006



191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

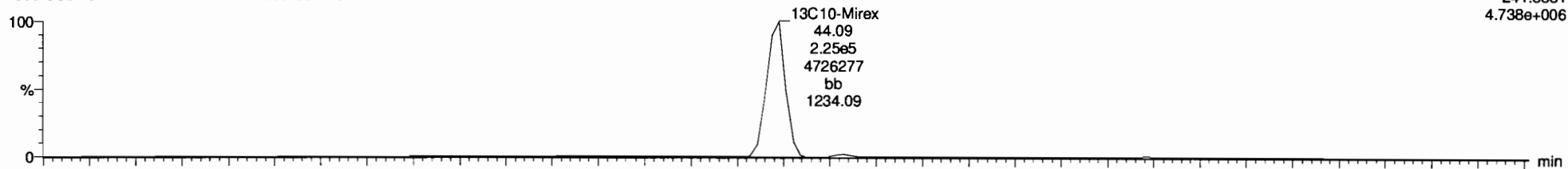
F5:Voltage SIR,EI+
238.8384
3.097e+006



13C10-Mirex

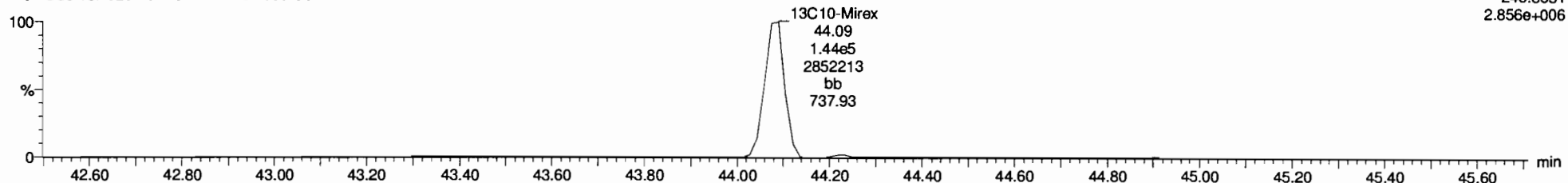
191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

F5:Voltage SIR,EI+
241.8581
4.738e+006



191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

F5:Voltage SIR,EI+
243.8551
2.856e+006



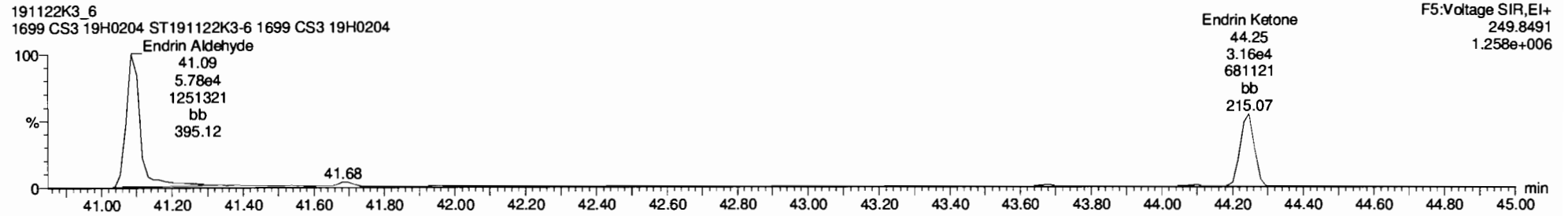
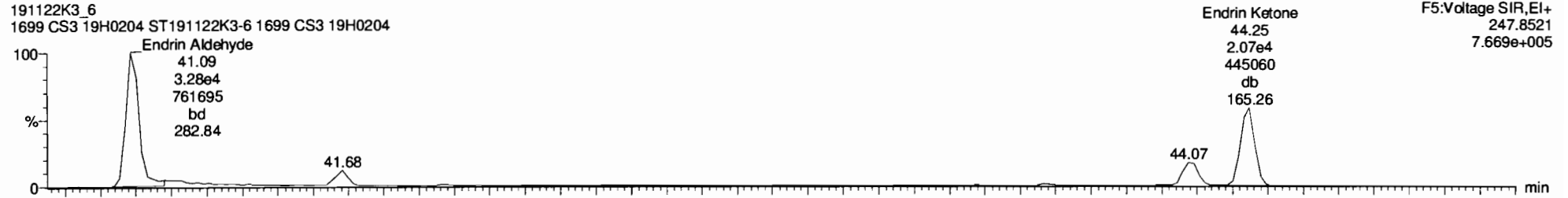
Dataset: Untitled

Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

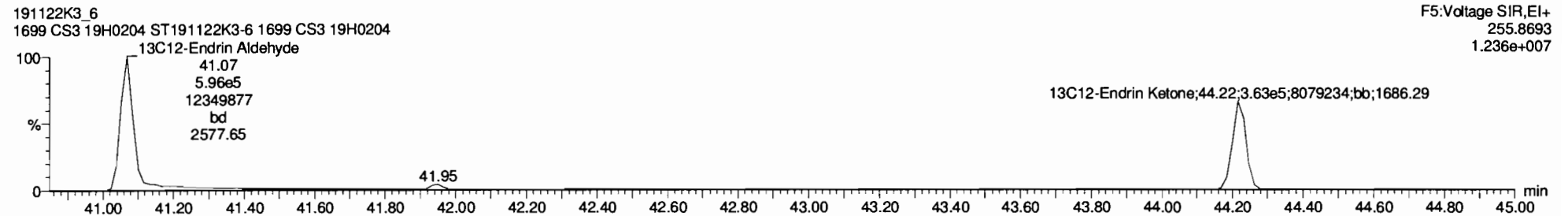
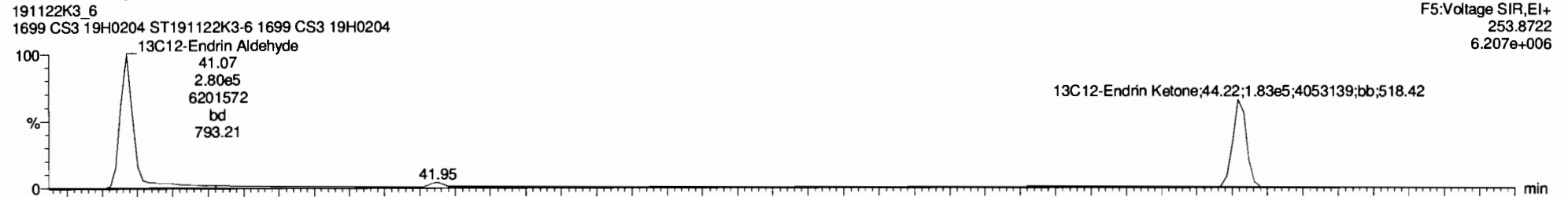
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

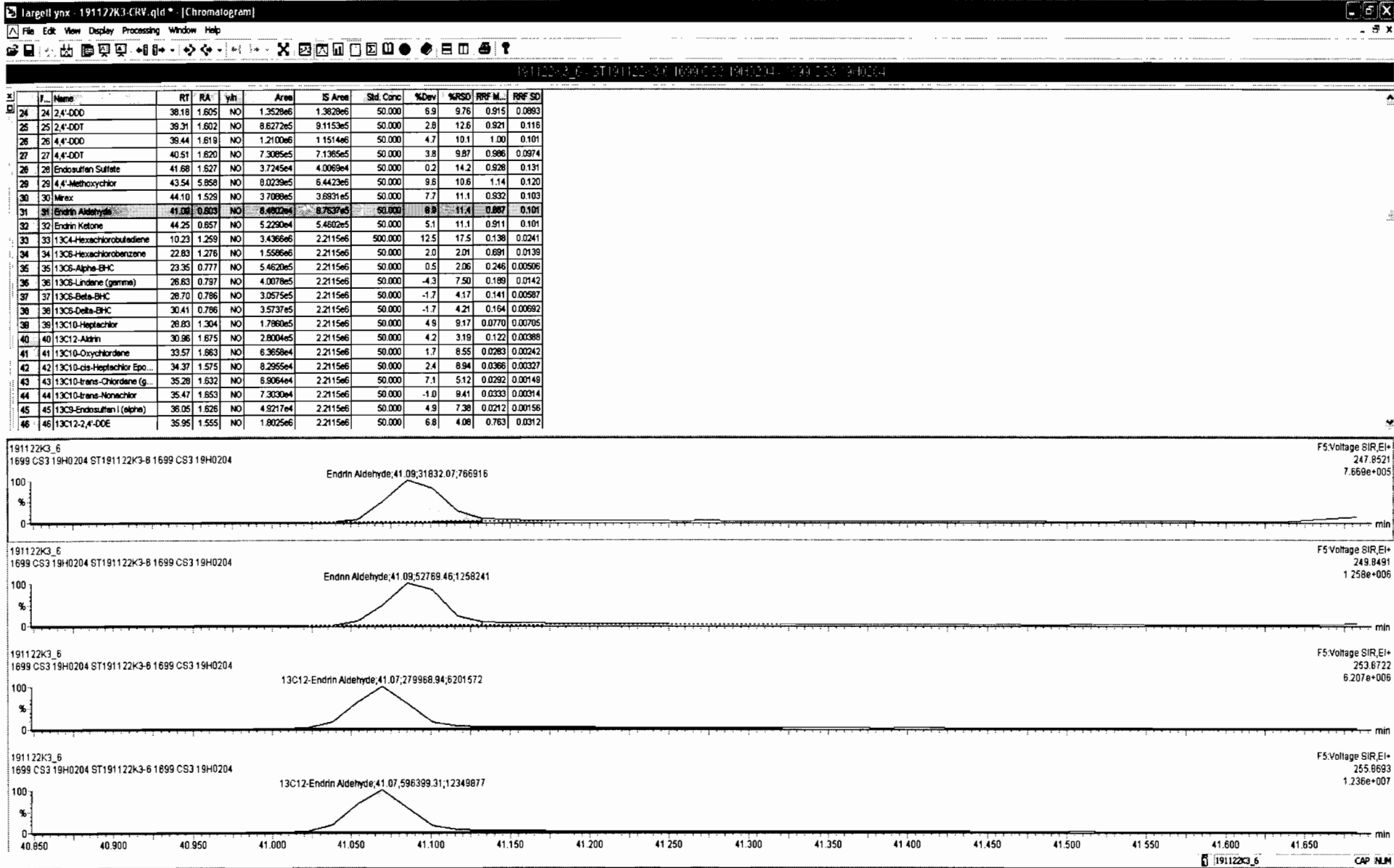
Name: 191122K3_6, Date: 22-Nov-2019, Time: 20:06:28, ID: ST191122K3-6 1699 CS3 19H0204, Description: 1699 CS3 19H0204

EA-EK



EA-EK-isotopes





Dataset: Untitled

Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

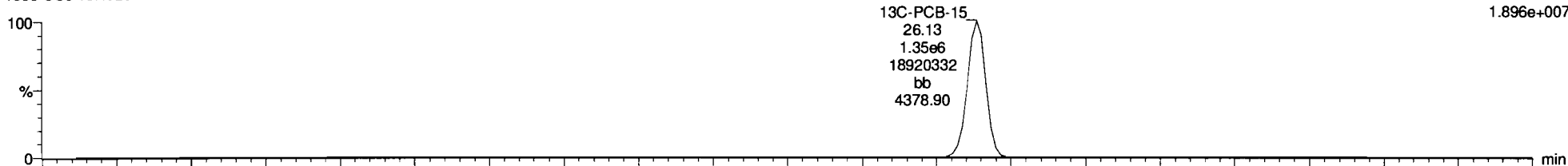
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_6, Date: 22-Nov-2019, Time: 20:06:28, ID: ST191122K3-6 1699 CS3 19H0204, Description: 1699 CS3 19H0204

13C-PCB-15

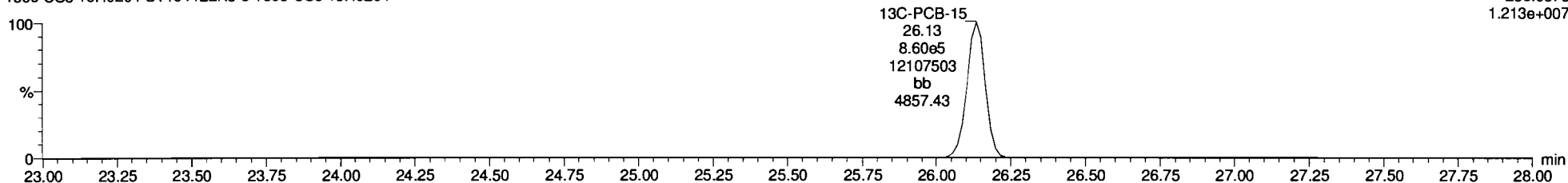
191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

F2:Voltage SIR,EI+
234.0406
1.896e+007



191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

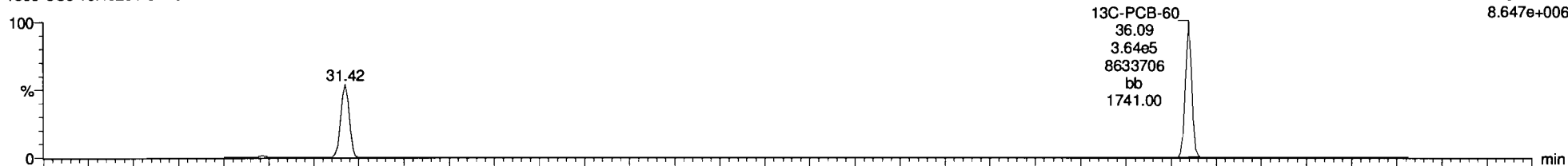
F2:Voltage SIR,EI+
236.0376
1.213e+007



13C-PCB-60

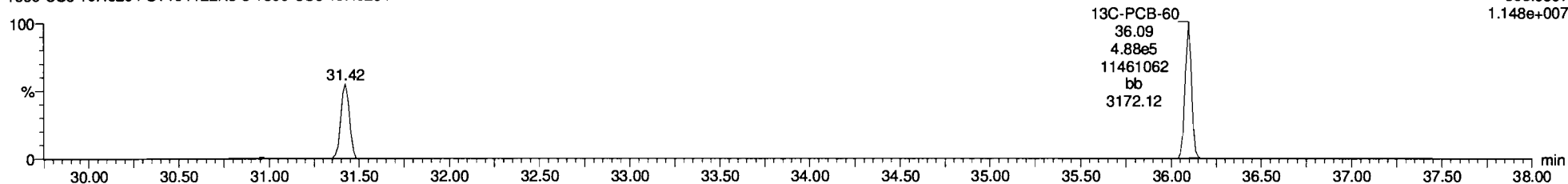
191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

F3:Voltage SIR,EI+
301.9626
8.647e+006



191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

F3:Voltage SIR,EI+
303.9597
1.148e+007



Dataset: Untitled

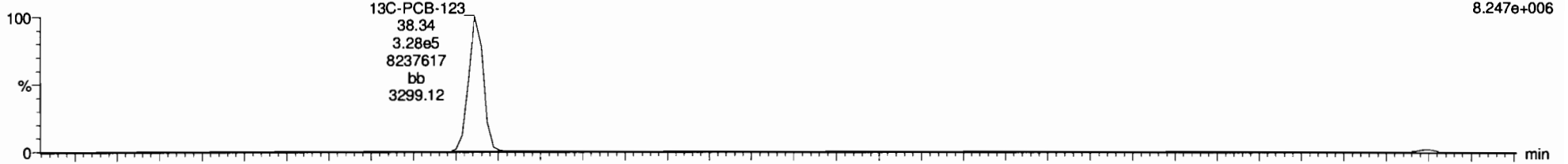
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Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_6, Date: 22-Nov-2019, Time: 20:06:28, ID: ST191122K3-6 1699 CS3 19H0204, Description: 1699 CS3 19H0204

13C-PCB-123

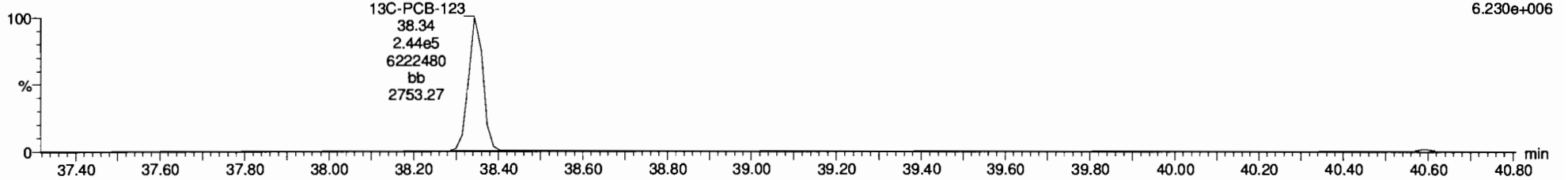
191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

F4:Voltage SIR,EI+
337.9210
8.247e+006



191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

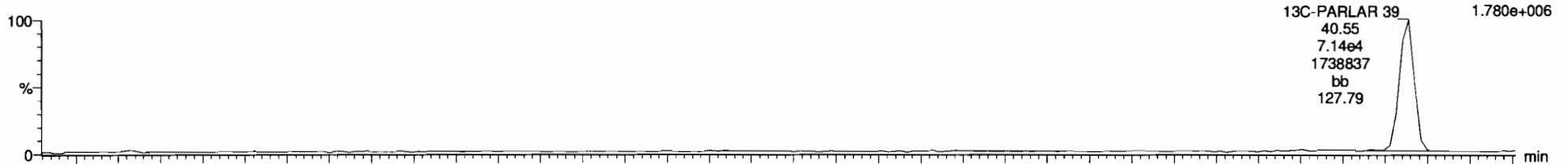
F4:Voltage SIR,EI+
339.9180
6.230e+006



13C-PARLAR 39

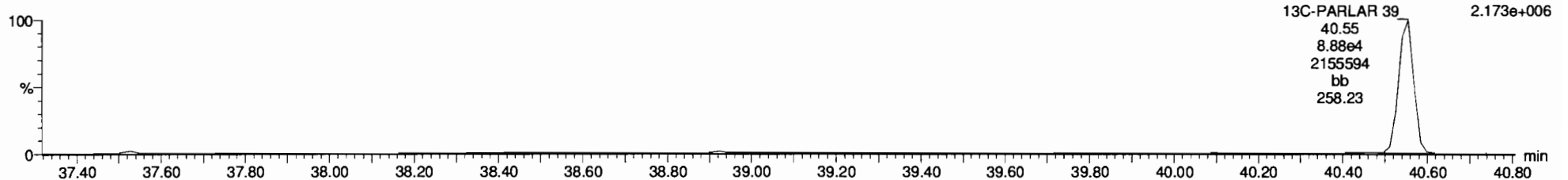
191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

F4:Voltage SIR,EI+
251.9648
1.780e+006



191122K3_6
1699 CS3 19H0204 ST191122K3-6 1699 CS3 19H0204

F4:Voltage SIR,EI+
253.9619
2.173e+006



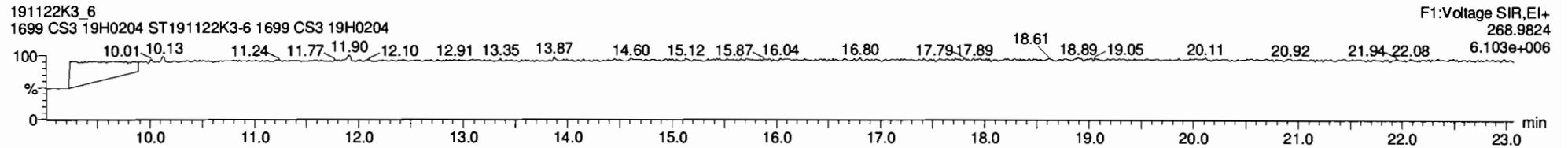
Dataset: Untitled

Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

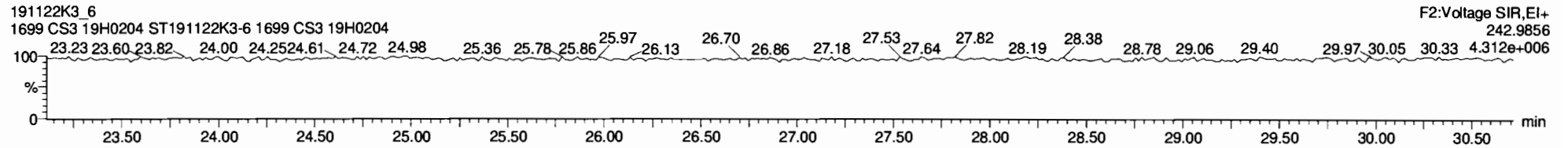
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_6, Date: 22-Nov-2019, Time: 20:06:28, ID: ST191122K3-6 1699 CS3 19H0204, Description: 1699 CS3 19H0204

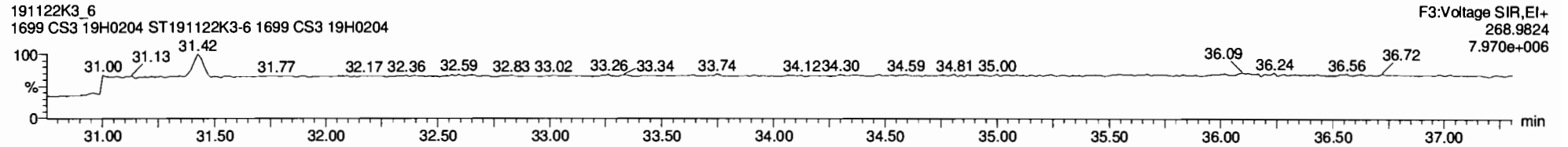
PFK1



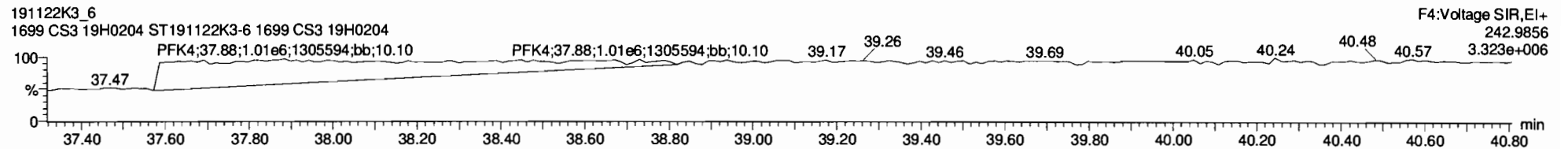
PFK2



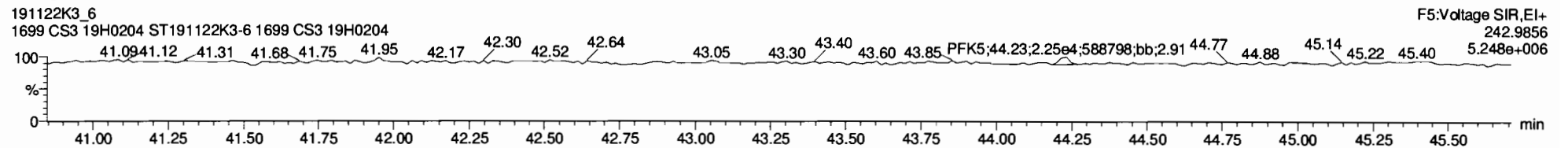
PFK3



PFK4



PFK5



Dataset: Untitled

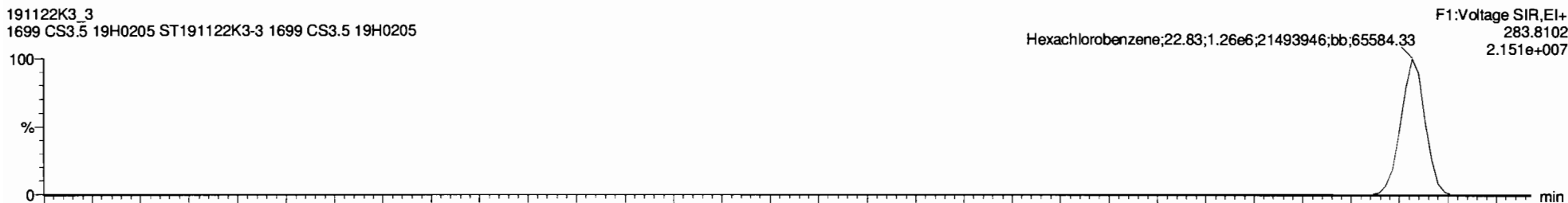
Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

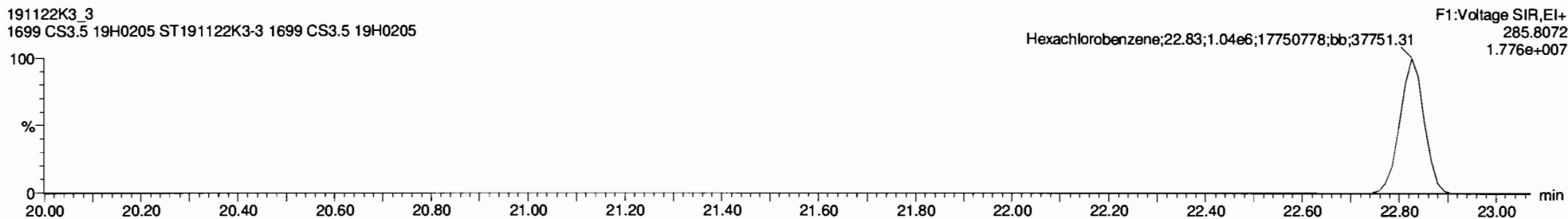
Name: 191122K3_3, Date: 22-Nov-2019, Time: 17:37:57, ID: ST191122K3-3 1699 CS3.5 19H0205, Description: 1699 CS3.5 19H0205

Hexachlorobenzene

191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

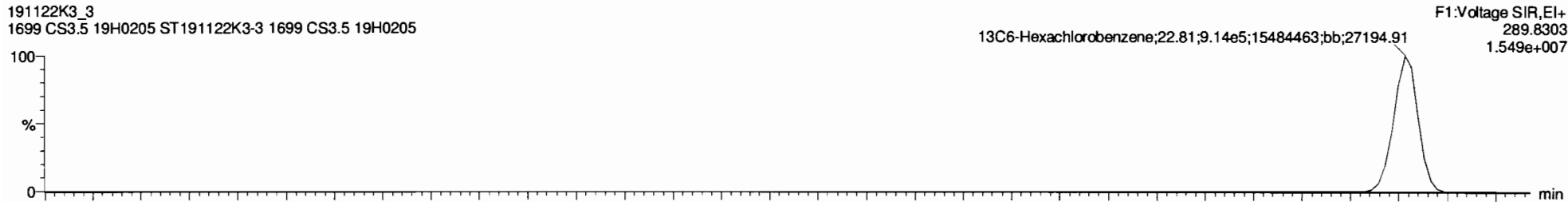


191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

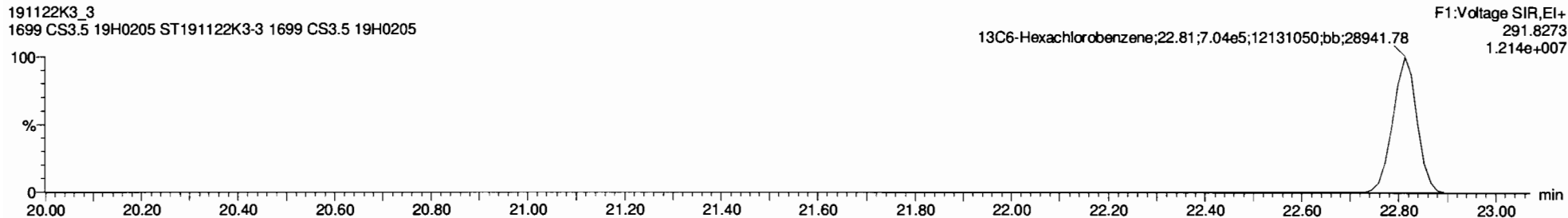


13C6-Hexachlorobenzene

191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205



191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205



Dataset: Untitled

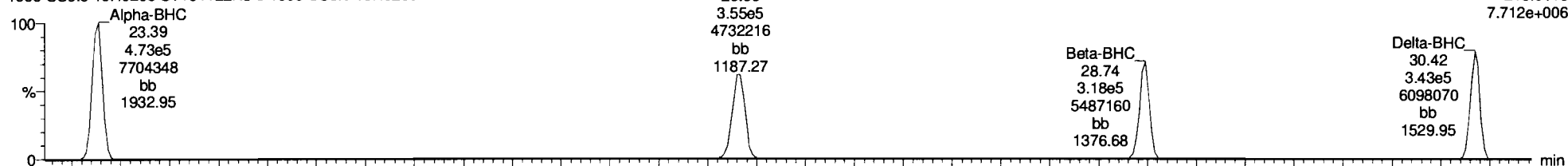
Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

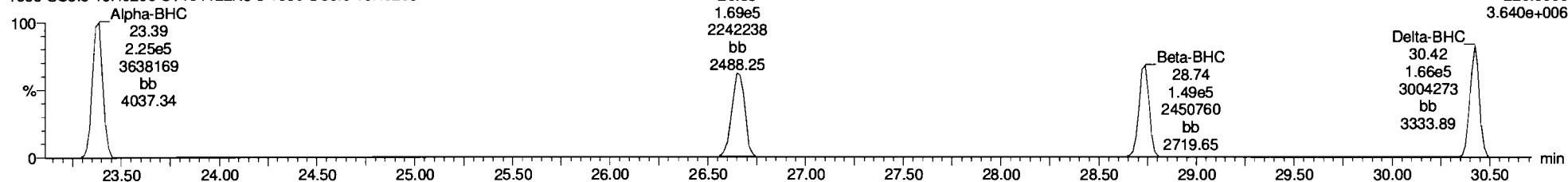
Name: 191122K3_3, Date: 22-Nov-2019, Time: 17:37:57, ID: ST191122K3-3 1699 CS3.5 19H0205, Description: 1699 CS3.5 19H0205

BHC Totals

191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

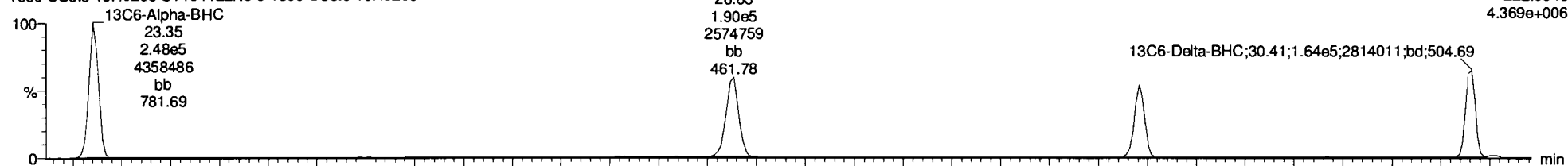


191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

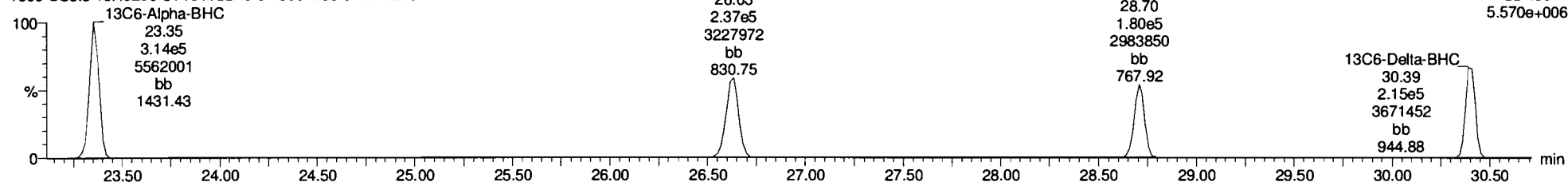


BHC-isotopes

191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205



191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205



Dataset: Untitled

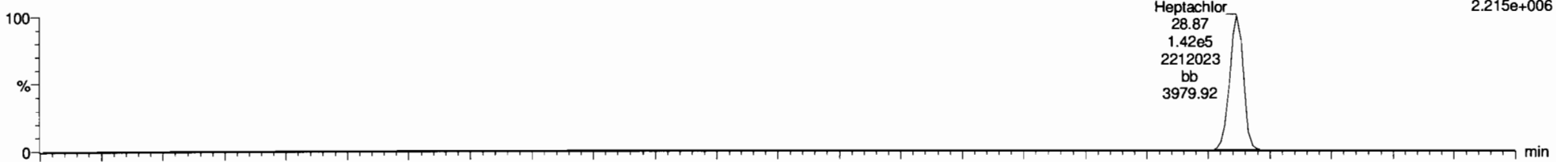
Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_3, Date: 22-Nov-2019, Time: 17:37:57, ID: ST191122K3-3 1699 CS3.5 19H0205, Description: 1699 CS3.5 19H0205

Heptachlor

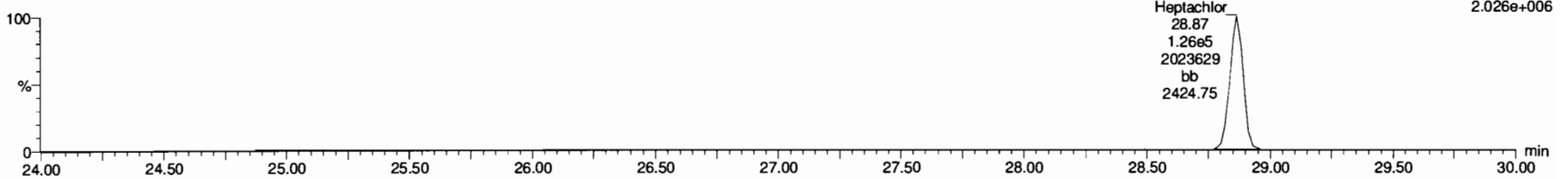
191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

F2:Voltage SIR,EI+
271.8102
2.215e+006



191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

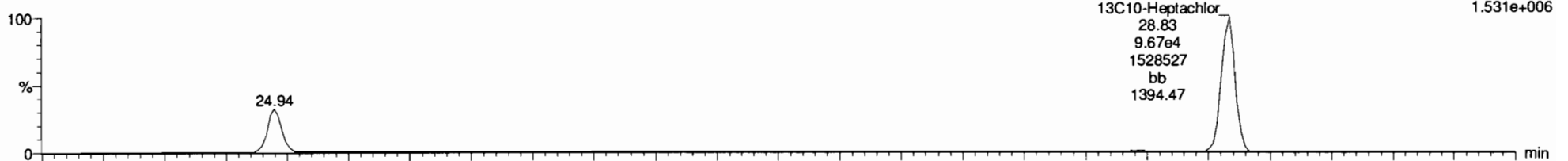
F2:Voltage SIR,EI+
273.8072
2.026e+006



13C10-Heptachlor

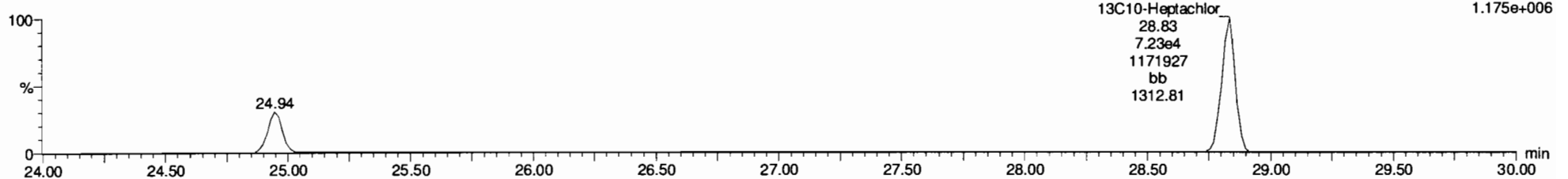
191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

F2:Voltage SIR,EI+
276.8269
1.531e+006



191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

F2:Voltage SIR,EI+
278.8240
1.175e+006



Dataset: Untitled

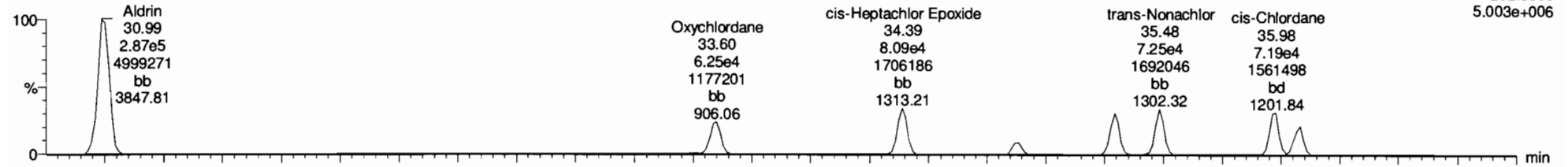
Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_3, Date: 22-Nov-2019, Time: 17:37:57, ID: ST191122K3-3 1699 CS3.5 19H0205, Description: 1699 CS3.5 19H0205

Aldrin-EI

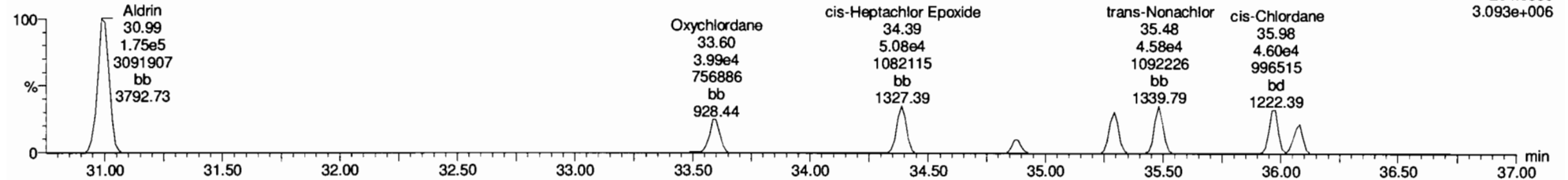
191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

F3:Voltage SIR,EI+
262.8569
5.003e+006



191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

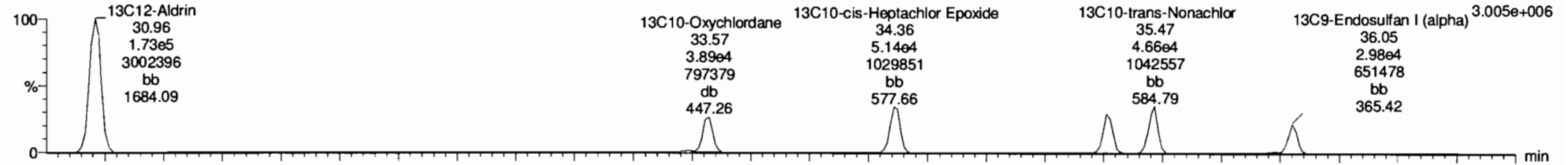
F3:Voltage SIR,EI+
264.8550
3.093e+006



Aldrin-EI-isotopes

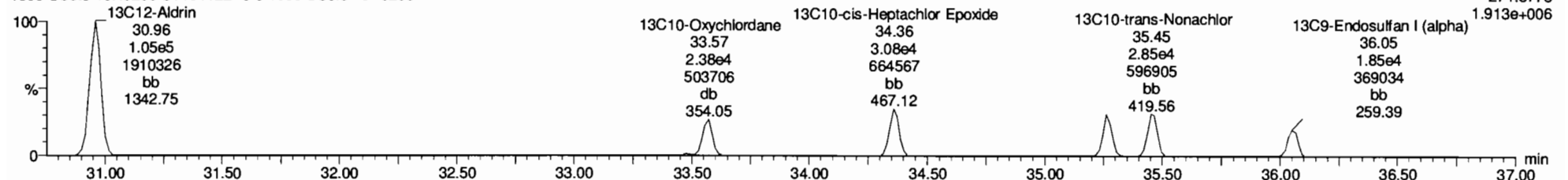
191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

F3:Voltage SIR,EI+
269.8804
3.005e+006



191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

F3:Voltage SIR,EI+
271.8775
1.913e+006



Dataset: Untitled

Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_3, Date: 22-Nov-2019, Time: 17:37:57, ID: ST191122K3-3 1699 CS3.5 19H0205, Description: 1699 CS3.5 19H0205

DDMU-DDE

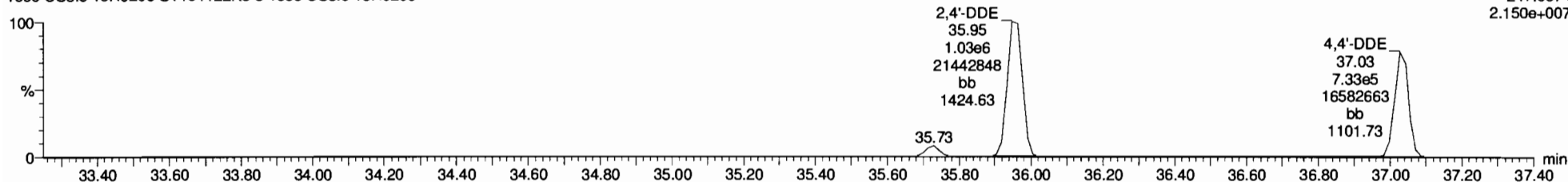
191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

F3:Voltage SIR,El+
246.0003
2.869e+007



191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

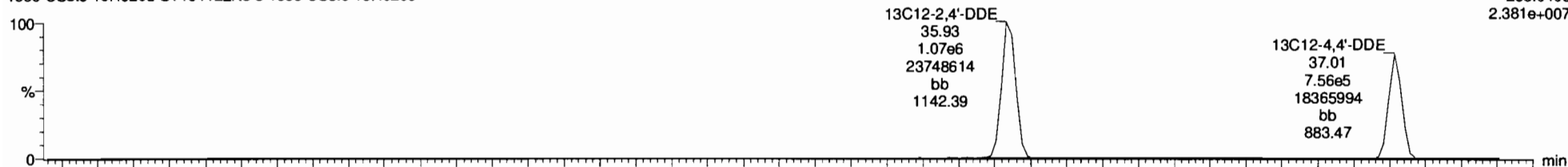
F3:Voltage SIR,El+
247.9974
2.150e+007



DDE-isotopes

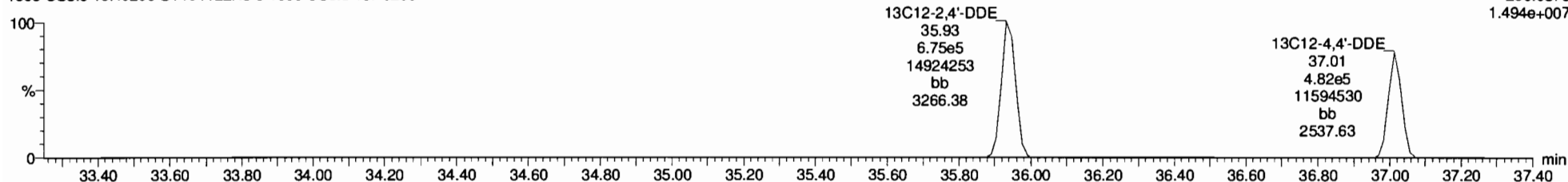
191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

F3:Voltage SIR,El+
258.0406
2.381e+007



191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

F3:Voltage SIR,El+
260.0376
1.494e+007



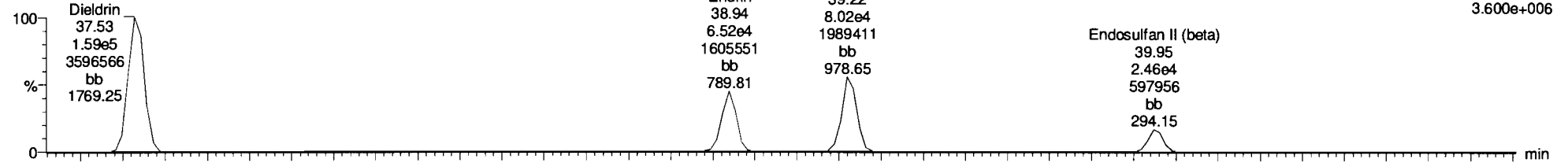
Dataset: Untitled

Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_3, Date: 22-Nov-2019, Time: 17:37:57, ID: ST191122K3-3 1699 CS3.5 19H0205, Description: 1699 CS3.5 19H0205

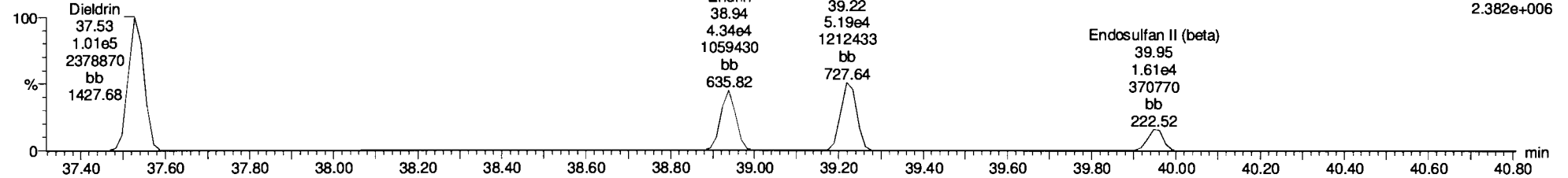
Dieldrin-EII

191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205



F4:Voltage SIR,EI+
262.8569
3.600e+006

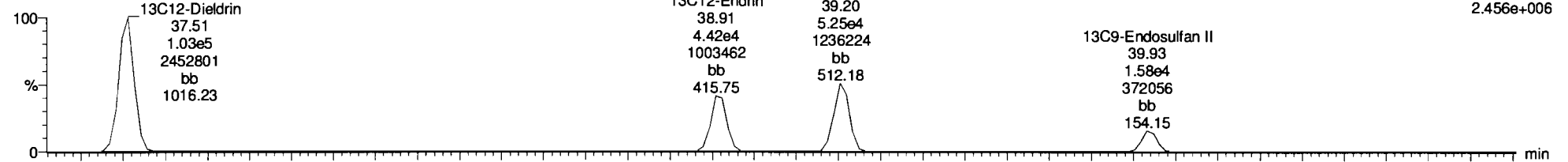
191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205



F4:Voltage SIR,EI+
264.8550
2.382e+006

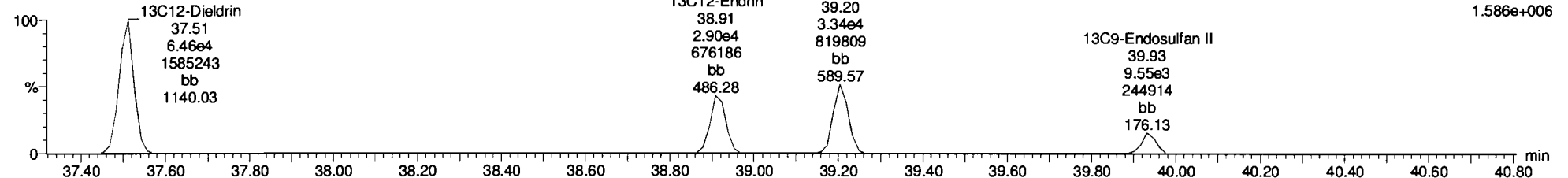
Dieldrin-EII-isotopes

191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205



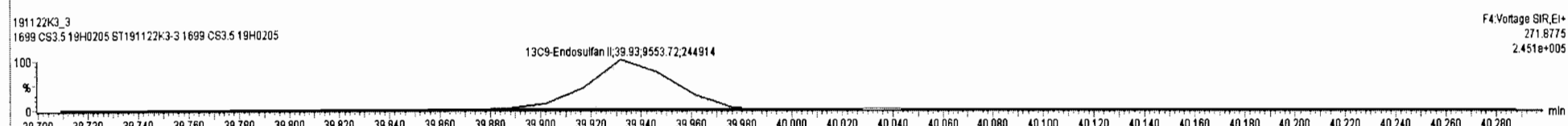
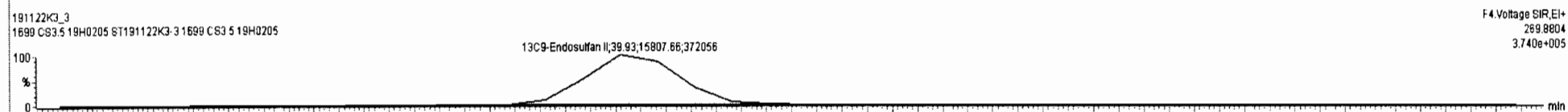
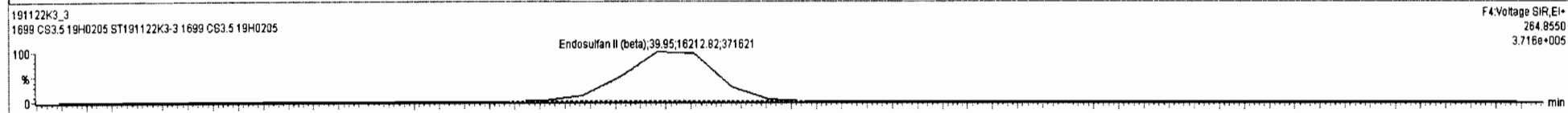
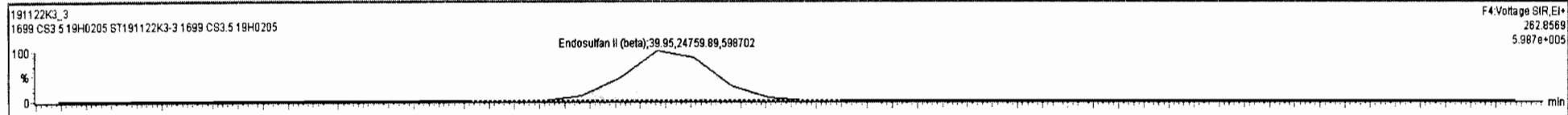
F4:Voltage SIR,EI+
269.8804
2.456e+006

191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205



F4:Voltage SIR,EI+
271.8775
1.586e+006

#	Name	RT	RA	Y/N	Area	IS Area	Std. Conc.	%Dev	%RSD	RRF M.L.	RRF SD
23	Endosulfan I (beta)	39.95	1.527	NO	4.0973e4	2.5391e4	100.000	-24.1	18.9	1.08	0.212
24	2,4'-DDD	38.18	1.575	NO	1.8671e6	1.2485e6	100.000	-18.3	9.76	0.915	0.0893
25	2,4'-DDT	39.31	1.577	NO	1.1283e6	7.8240e5	100.000	-21.7	12.6	0.921	0.116
26	4,4'-DDD	39.43	1.606	NO	1.5959e6	9.8684e5	100.000	-19.5	10.1	1.00	0.101
27	4,4'-DDT	40.50	1.572	NO	9.0626e5	5.7323e5	100.000	-19.9	9.87	0.966	0.0974
28	Endosulfan Sulfate	41.88	1.533	NO	5.6775e4	3.9089e4	100.000	-21.7	14.2	0.928	0.131
29	4,4'-Methoxychlor	43.54	5.745	NO	9.6083e5	5.3194e6	100.000	-20.5	10.6	1.14	0.120
30	Mirex	44.09	1.522	NO	5.7675e5	3.8863e5	100.000	-20.4	11.1	0.932	0.103
31	Endrin Aldehyde	41.06	0.610	NO	1.2363e5	7.8100e5	100.000	-15.6	10.3	0.962	0.0890
32	Endrin Ketone	44.23	0.622	NO	7.2134e4	4.8655e5	100.000	-18.6	11.1	0.911	0.101
33	13C4-Hexachlorobutadiene	10.21	1.266	NO	3.4922e6	2.3179e6	500.000	9.0	17.5	0.138	0.0241
34	13C6-Hexachlorobenzene	22.81	1.298	NO	1.6177e6	2.3179e6	50.000	1.0	2.01	0.691	0.0139
35	13C6-Alpha-BHC	23.35	0.790	NO	5.6196e5	2.3179e6	50.000	-1.3	2.06	0.246	0.00606
36	13C6-Lindane (gamma)	26.63	0.800	NO	4.2654e5	2.3179e6	50.000	-2.8	7.50	0.189	0.0142
37	13C6-Beta-BHC	28.70	0.783	NO	3.2100e5	2.3179e6	50.000	-1.5	4.17	0.141	0.00587
38	13C6-Delta-BHC	30.41	0.784	NO	3.7866e5	2.3179e6	50.000	-0.6	4.21	0.164	0.00692
39	13C10-Heptachlor	28.83	1.337	NO	1.6900e5	2.3179e6	50.000	-5.3	9.17	0.0770	0.00705
40	13C12-Aldrin	30.96	1.648	NO	2.7768e5	2.3179e6	50.000	-1.5	3.19	0.122	0.00388
41	13C10-Oxychlorane	33.57	1.638	NO	6.2669e4	2.3179e6	50.000	-4.4	8.55	0.0283	0.00242
42	13C10-cis-Heptachlor Epo...	34.36	1.668	NO	8.2178e4	2.3179e6	50.000	-3.2	8.94	0.0366	0.00327
43	13C10-trans-Chloridane (g...	35.26	1.585	NO	6.6092e4	2.3179e6	50.000	-2.2	5.12	0.0292	0.00149
44	13C10-trans-Nonachlor	35.47	1.637	NO	7.5026e4	2.3179e6	50.000	-2.9	9.41	0.0333	0.00314
45	13C8-Endosulfan I (alpha)	36.05	1.611	NO	4.8289e4	2.3179e6	50.000	-1.8	7.38	0.0212	0.00156

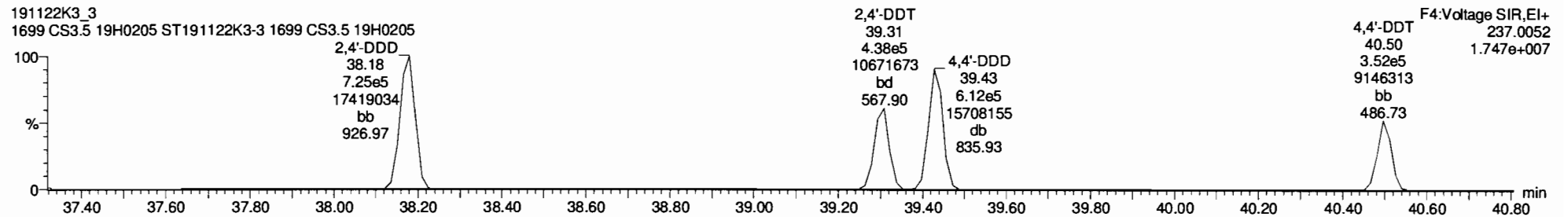
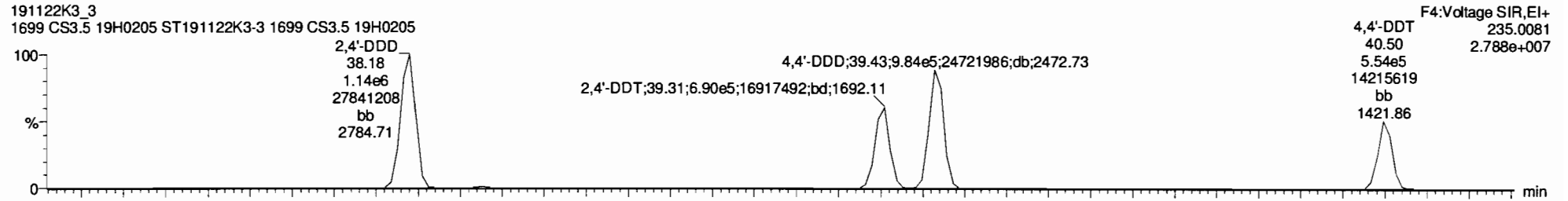


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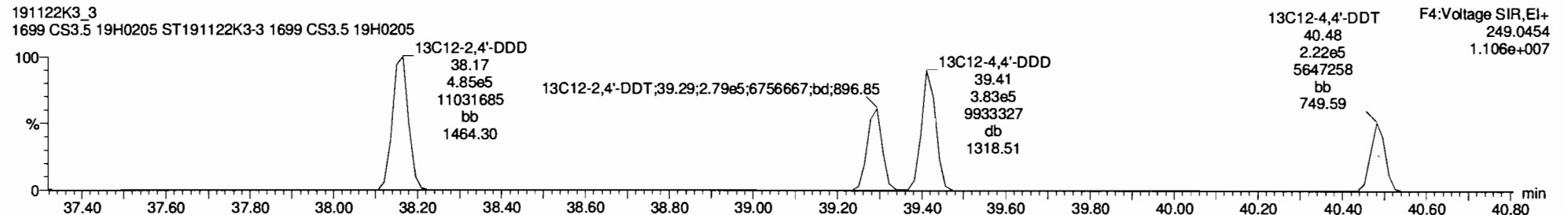
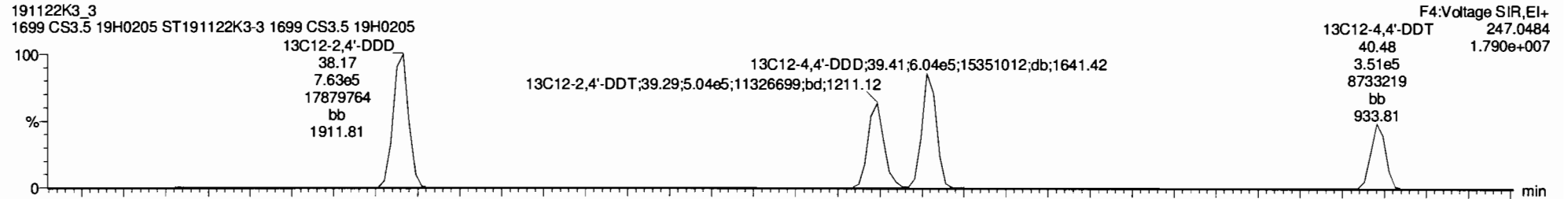
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Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_3, Date: 22-Nov-2019, Time: 17:37:57, ID: ST191122K3-3 1699 CS3.5 19H0205, Description: 1699 CS3.5 19H0205

DDD-DDT



DDD-DDT-isotopes



Dataset: Untitled

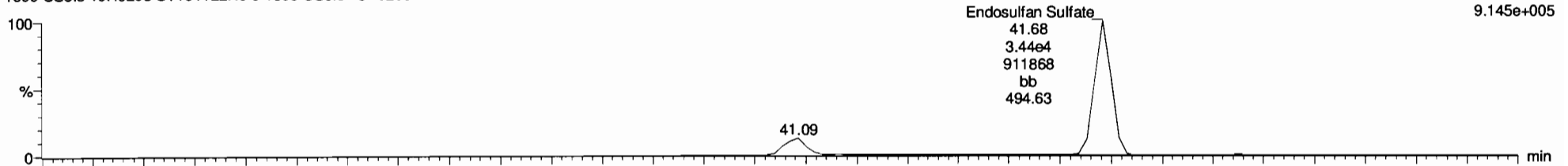
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Name: 191122K3_3, Date: 22-Nov-2019, Time: 17:37:57, ID: ST191122K3-3 1699 CS3.5 19H0205, Description: 1699 CS3.5 19H0205

Endosulfan Sulfate

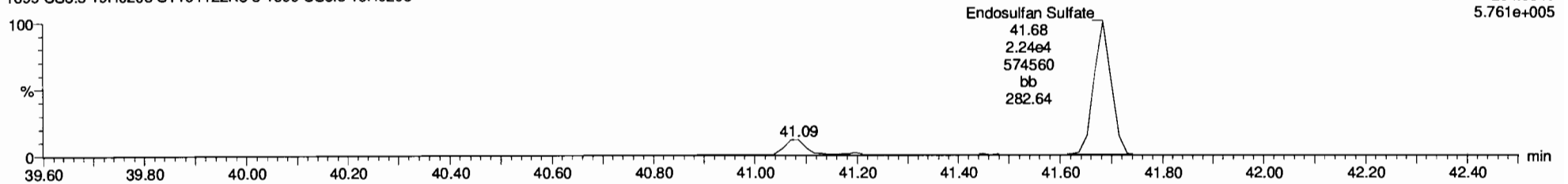
191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

F5:Voltage SIR,EI+
262.8569
9.145e+005



191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

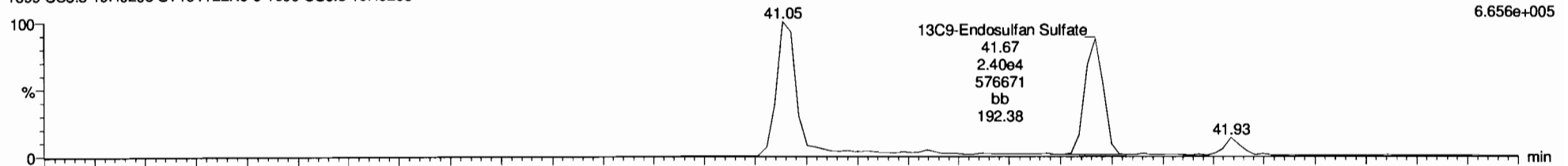
F5:Voltage SIR,EI+
264.8540
5.761e+005



13C9-Endosulfan Sulfate

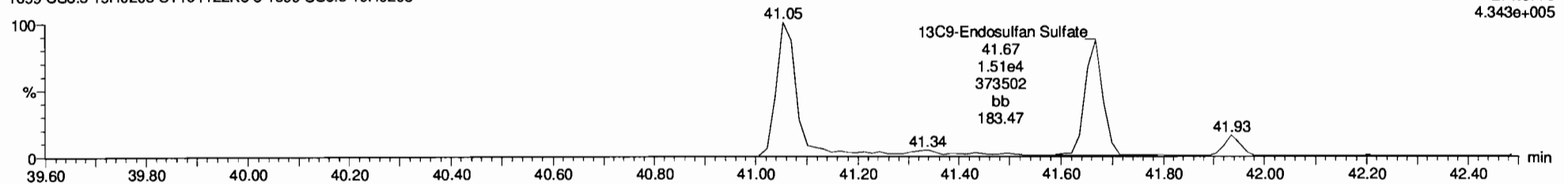
191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

F5:Voltage SIR,EI+
269.8804
6.656e+005



191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

F5:Voltage SIR,EI+
271.8775
4.343e+005



Dataset: Untitled

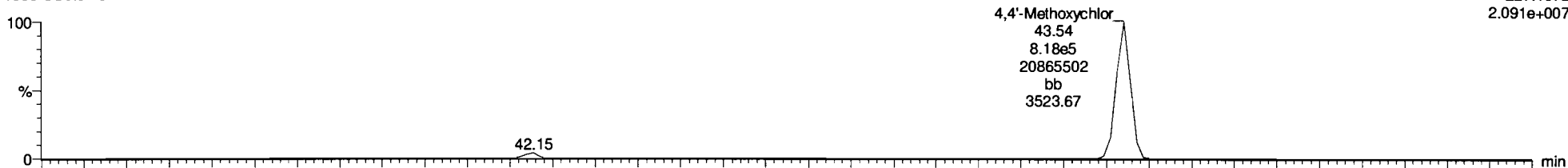
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Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_3, Date: 22-Nov-2019, Time: 17:37:57, ID: ST191122K3-3 1699 CS3.5 19H0205, Description: 1699 CS3.5 19H0205

4,4'-Methoxychlor

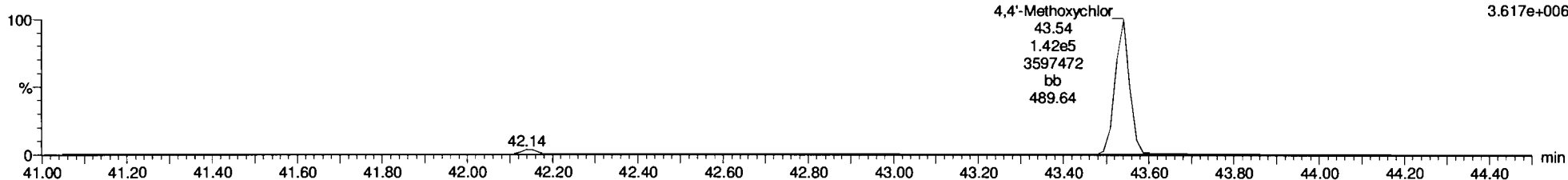
191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

F5:Voltage SIR,EI+
227.1072
2.091e+007



191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

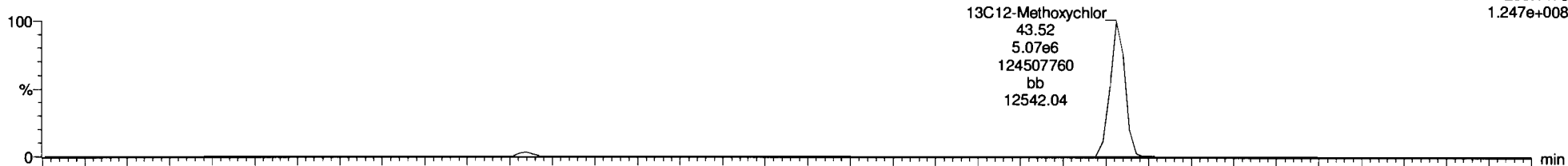
F5:Voltage SIR,EI+
228.1106
3.617e+006



13C12-Methoxychlor

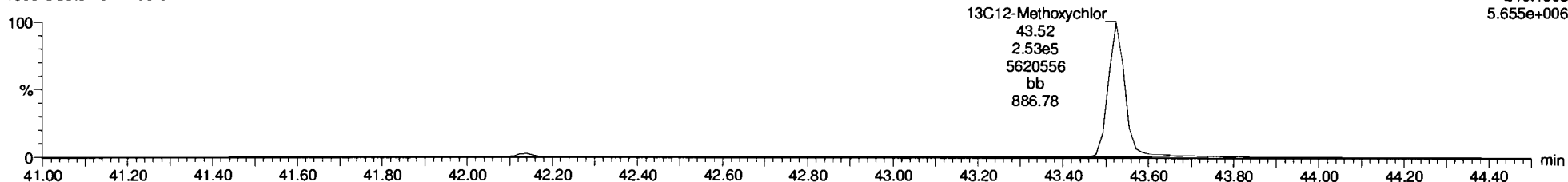
191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

F5:Voltage SIR,EI+
239.1475
1.247e+008



191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

F5:Voltage SIR,EI+
240.1508
5.655e+006



Dataset: Untitled

Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

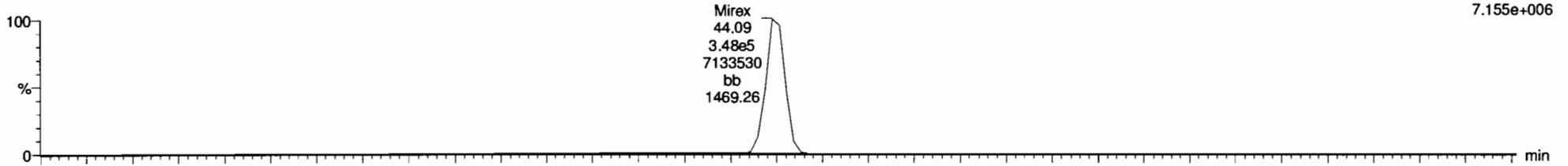
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Mirex

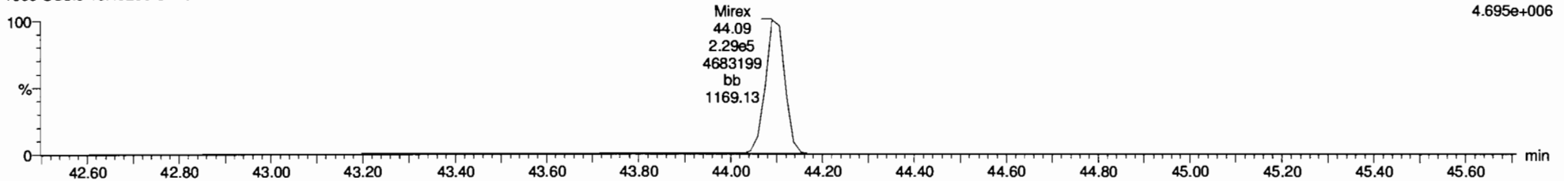
191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

F5:Voltage SIR,EI+
236.8413
7.155e+006



191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

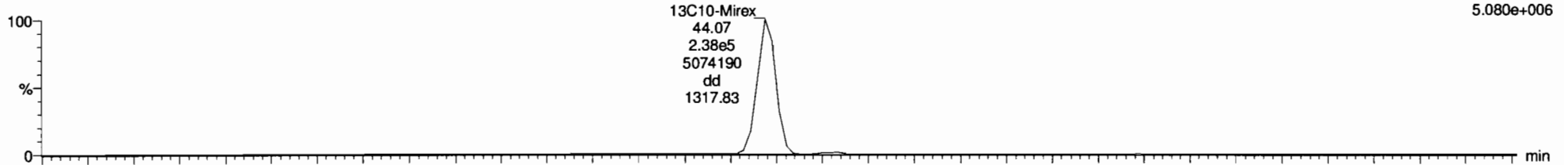
F5:Voltage SIR,EI+
238.8384
4.695e+006



13C10-Mirex

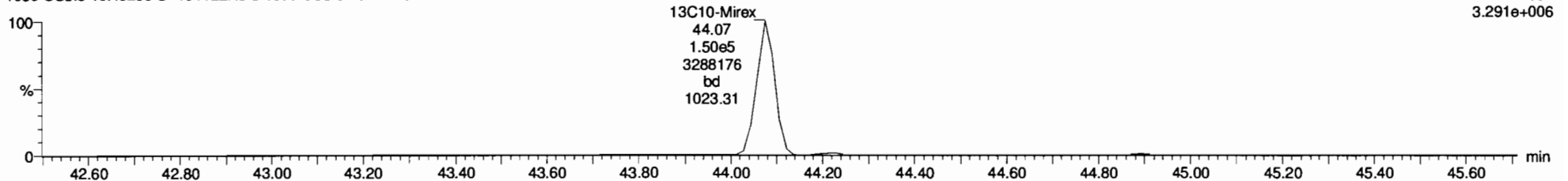
191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

F5:Voltage SIR,EI+
241.8581
5.080e+006



191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

F5:Voltage SIR,EI+
243.8551
3.291e+006



Dataset: Untitled

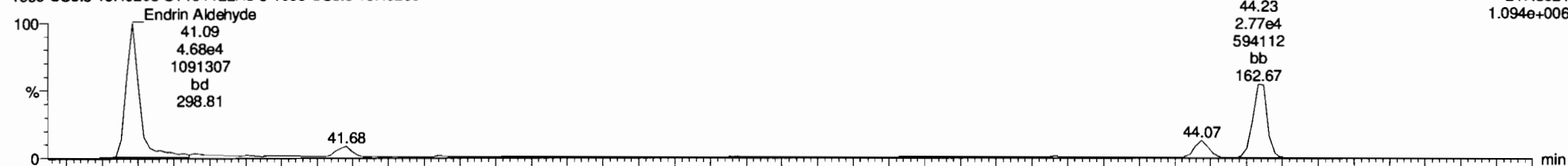
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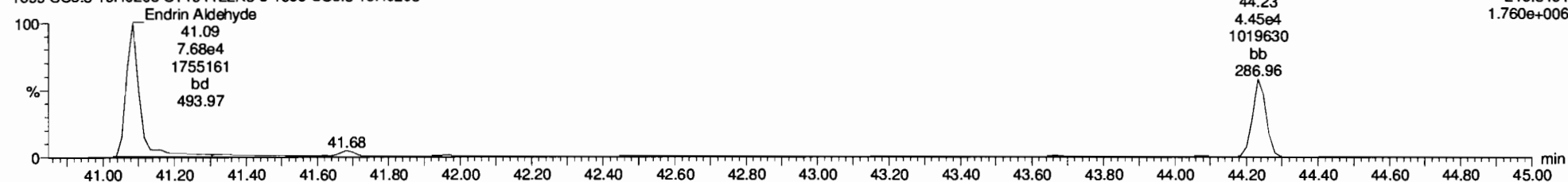
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EA-EK

191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205



191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

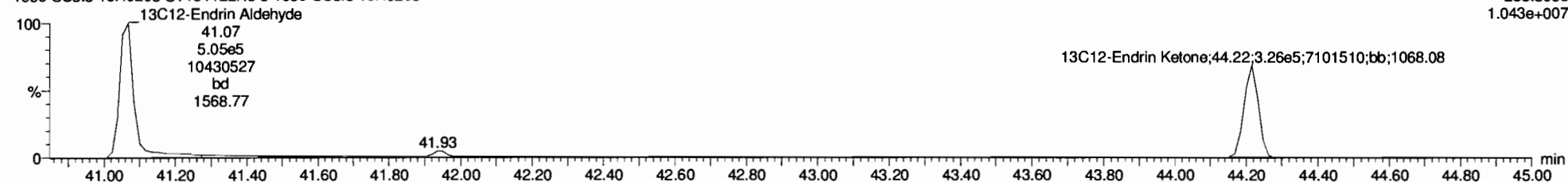


EA-EK-isotopes

191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

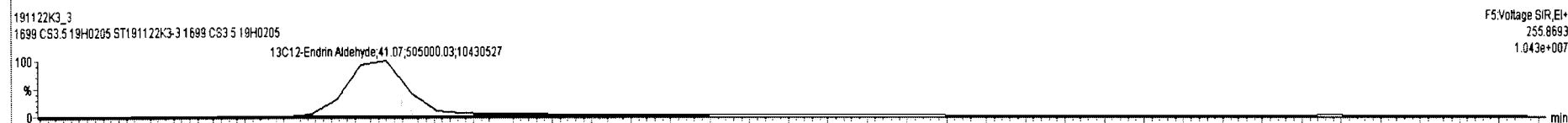
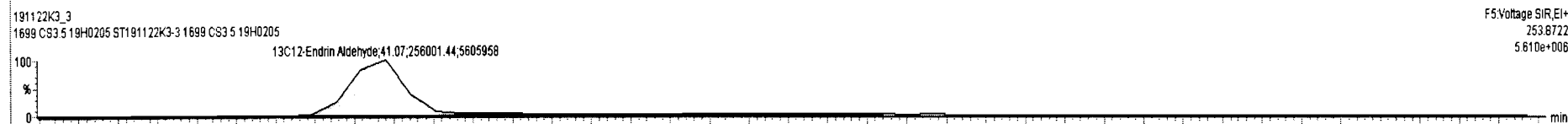
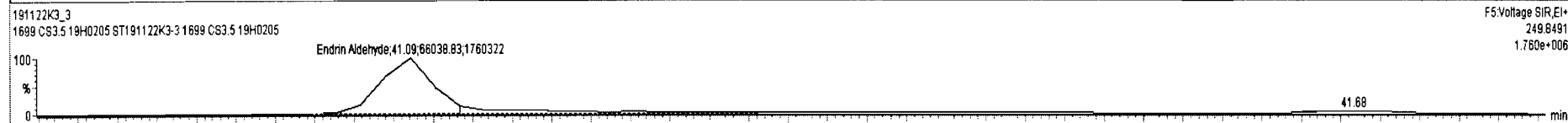
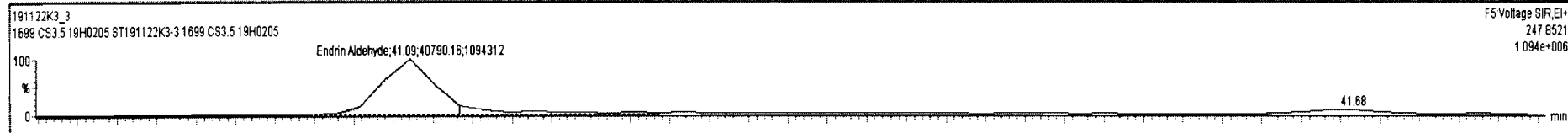


191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205



191122K3_2-ST191122K3-1699CS3.5-19H0205-1699CS3.5-19H0205

F.	Name	RT	RA	Yth	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M.	RRF SD
23	Endosulfan II (beta)	39.95	1.527	NO	4.0973e4	2.5361e4	100.000	-24.1	19.9	1.06	0.212
24	2,4'-DDD	38.18	1.575	NO	1.8671e6	1.2485e6	100.000	-18.3	9.76	0.915	0.0893
25	2,4'-DDT	39.21	1.577	NO	1.1283e6	7.8240e5	100.000	-21.7	12.6	0.921	0.116
26	4,4'-DDD	39.43	1.606	NO	1.5959e6	9.8694e5	100.000	-19.5	10.1	1.00	0.101
27	4,4'-DDT	40.50	1.572	NO	9.0626e5	5.7323e5	100.000	-19.9	9.87	0.986	0.0974
28	Endosulfan Sulfate	41.68	1.533	NO	5.8775e4	3.9088e4	100.000	-21.7	14.2	0.926	0.131
29	4,4'-Methoxychlor	43.54	5.745	NO	9.6033e5	5.3194e6	100.000	-20.5	10.6	1.14	0.120
30	Mirex	44.09	1.522	NO	5.7675e5	3.8662e5	100.000	-20.4	11.1	0.932	0.103
31	Endrin Aldehyde	41.09	0.818	NO	1.0983e5	7.8100e5	100.000	-25.5	14.4	0.944	0.136
32	Endrin Ketone	44.23	0.622	NO	7.2134e4	4.8655e5	100.000	-18.6	11.1	0.911	0.101
33	13C4-Hexachlorobutadiene	10.21	1.266	NO	3.4922e6	2.3179e6	500.000	9.0	17.5	0.138	0.0241
34	13C8-Hexachlorobenzene	22.81	1.298	NO	1.6177e6	2.3179e6	50.000	1.0	2.01	0.691	0.0139
35	13C8-Alpha-BHC	23.35	0.790	NO	5.8196e5	2.3179e6	50.000	-1.3	2.06	0.246	0.00506
36	13C8-Lindane (gamma)	26.63	0.800	NO	4.2654e5	2.3179e6	50.000	-2.8	7.50	0.189	0.0142
37	13C8-Beta-BHC	28.70	0.783	NO	3.2100e5	2.3179e6	50.000	-1.5	4.17	0.141	0.00587
38	13C8-Delta-BHC	30.41	0.764	NO	3.7866e5	2.3179e6	50.000	-0.6	4.21	0.164	0.00692
39	13C10-Heptachlor	28.83	1.337	NO	1.6900e5	2.3179e6	50.000	-5.3	9.17	0.0770	0.00705
40	13C12-Aldrin	30.96	1.648	NO	2.7768e5	2.3179e6	50.000	-1.5	3.19	0.122	0.00388
41	13C10-Oxychlorane	33.57	1.638	NO	6.2669e4	2.3179e6	50.000	-4.4	8.55	0.0283	0.00242
42	13C10-cis-Heptachlor Epo...	34.36	1.668	NO	8.2178e4	2.3179e6	50.000	-3.2	8.94	0.0366	0.00327
43	13C10-trans-Chlordane (g...	35.26	1.585	NO	6.6092e4	2.3179e6	50.000	-2.2	5.12	0.0292	0.00149
44	13C10-trans-Nonachlor	35.47	1.637	NO	7.5026e4	2.3179e6	50.000	-2.9	9.41	0.0333	0.00314
45	13C9-Endosulfan I (alpha)	36.05	1.611	NO	4.8289e4	2.3179e6	50.000	-1.8	7.38	0.0212	0.00156



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Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

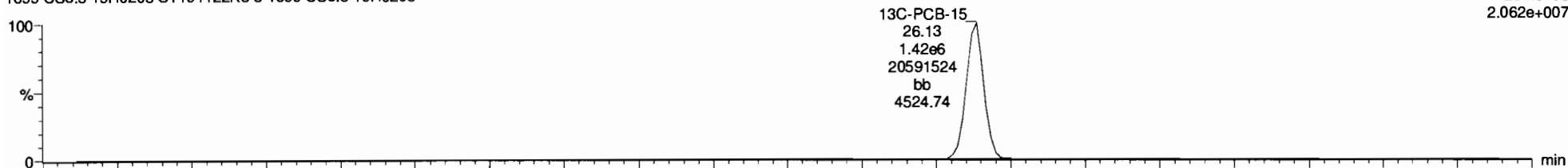
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13C-PCB-15

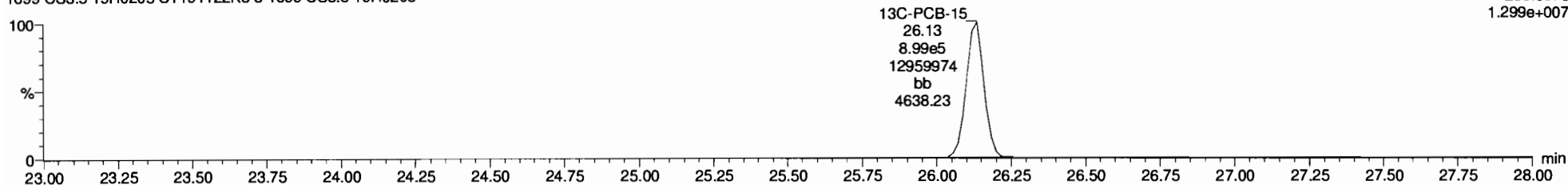
191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

F2:Voltage SIR,EI+
234.0406
2.062e+007



191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

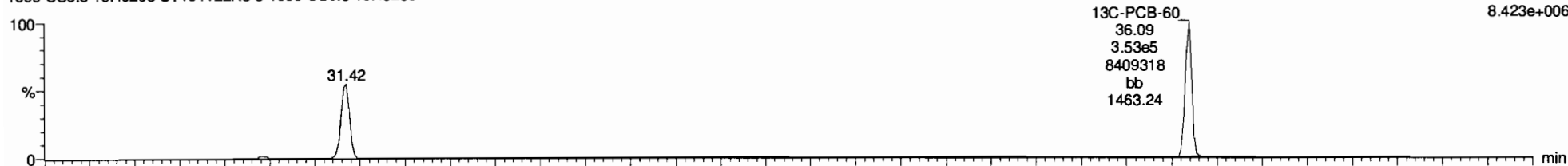
F2:Voltage SIR,EI+
236.0376
1.299e+007



13C-PCB-60

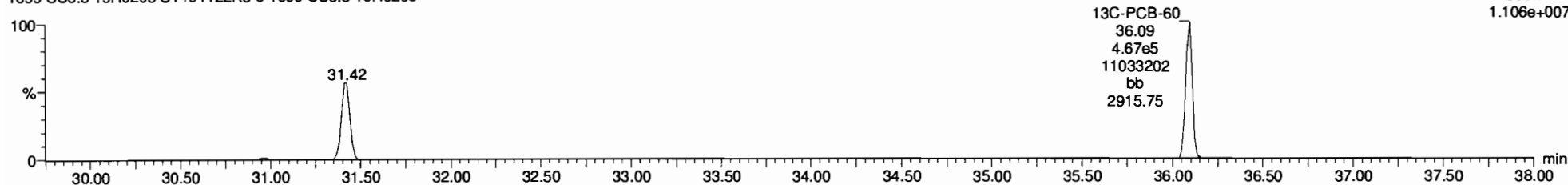
191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

F3:Voltage SIR,EI+
301.9626
8.423e+006



191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

F3:Voltage SIR,EI+
303.9597
1.106e+007



Dataset: Untitled

Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

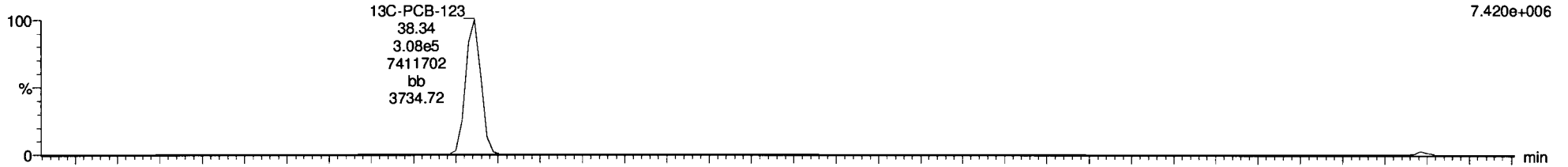
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13C-PCB-123

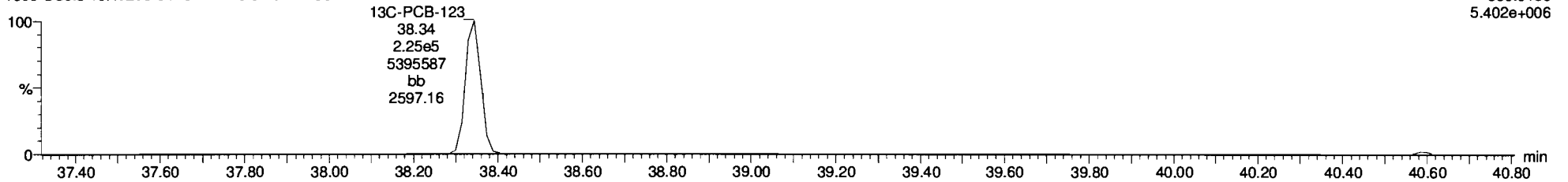
191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

F4:Voltage SIR,EI+
337.9210
7.420e+006



191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

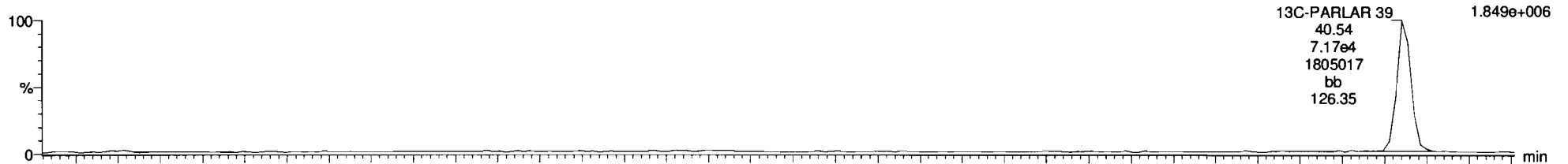
F4:Voltage SIR,EI+
339.9180
5.402e+006



13C-PARLAR 39

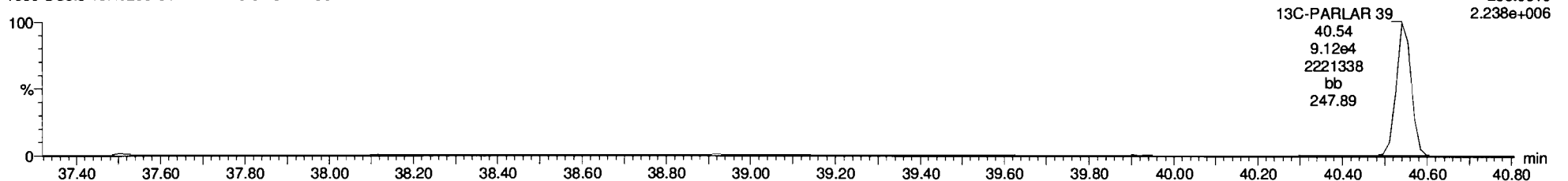
191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

F4:Voltage SIR,EI+
251.9648
1.849e+006



191122K3_3
1699 CS3.5 19H0205 ST191122K3-3 1699 CS3.5 19H0205

F4:Voltage SIR,EI+
253.9619
2.238e+006

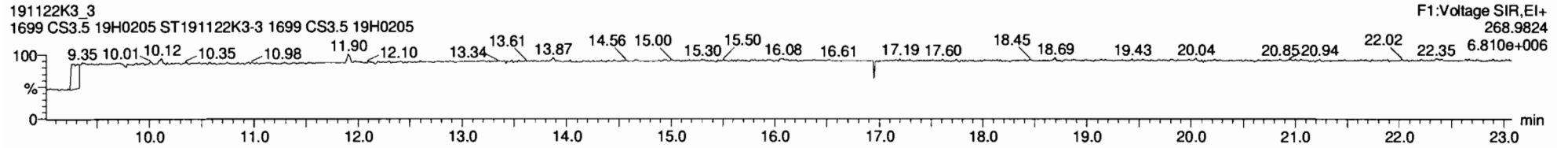


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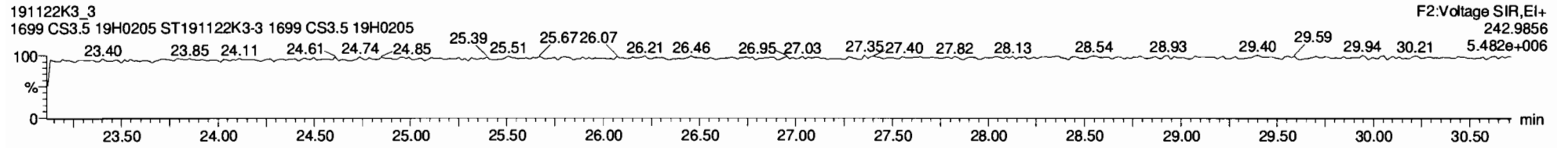
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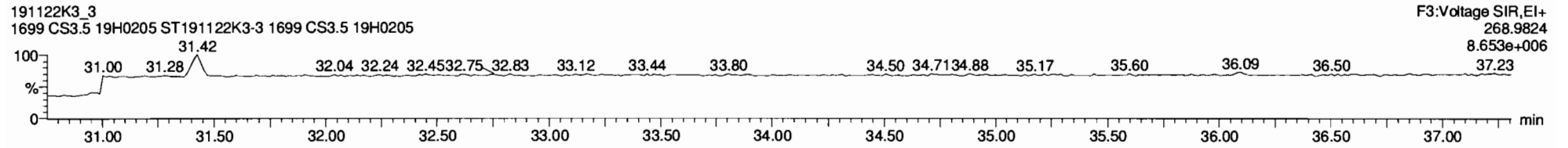
PFK1



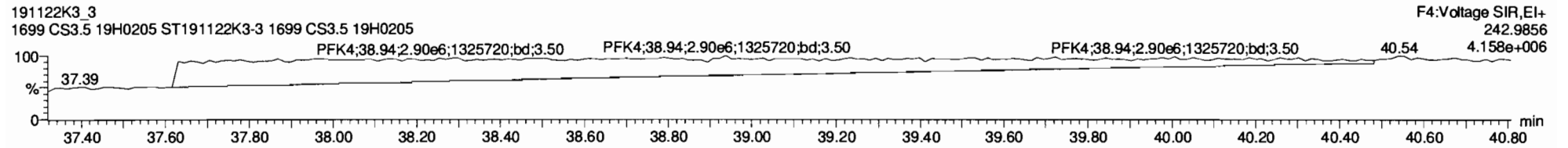
PFK2



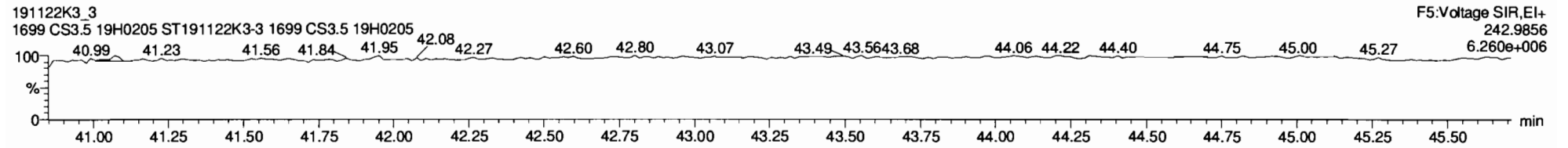
PFK3



PFK4



PFK5



Dataset: Untitled

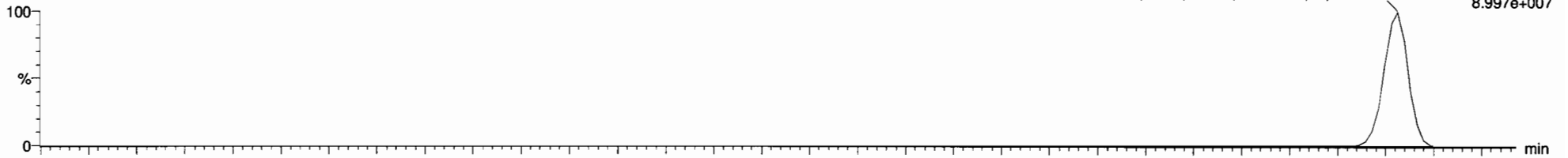
Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

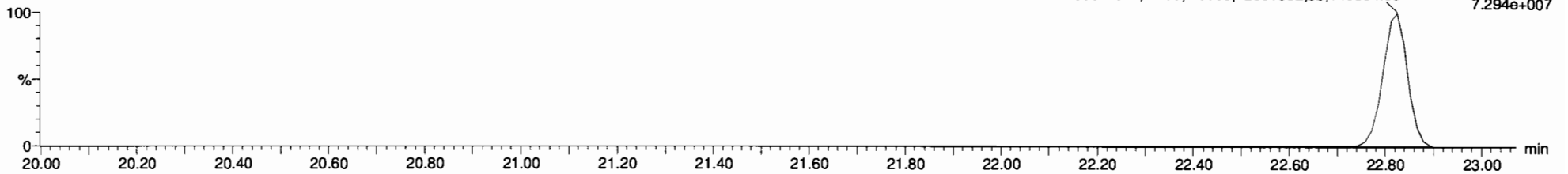
Name: 191122K3_4, Date: 22-Nov-2019, Time: 18:28:36, ID: ST191122K3-4 1699 CS4 19H0206, Description: 1699 CS4 19H0206

Hexachlorobenzene

191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

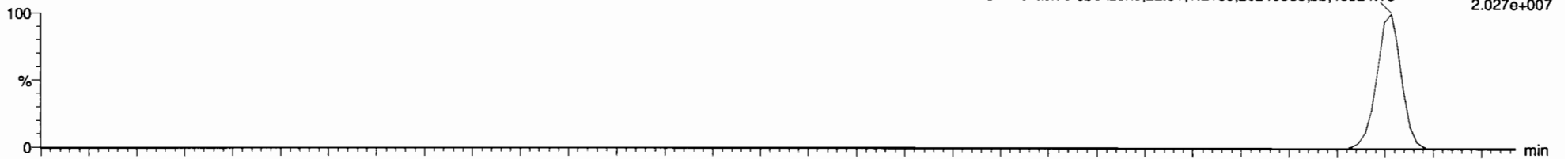


191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

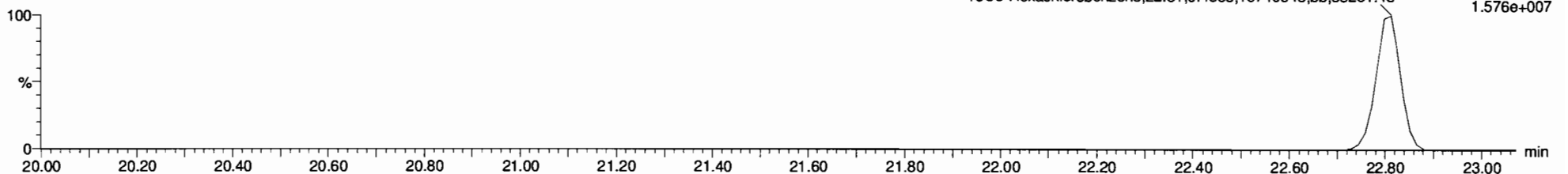


13C6-Hexachlorobenzene

191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206



191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

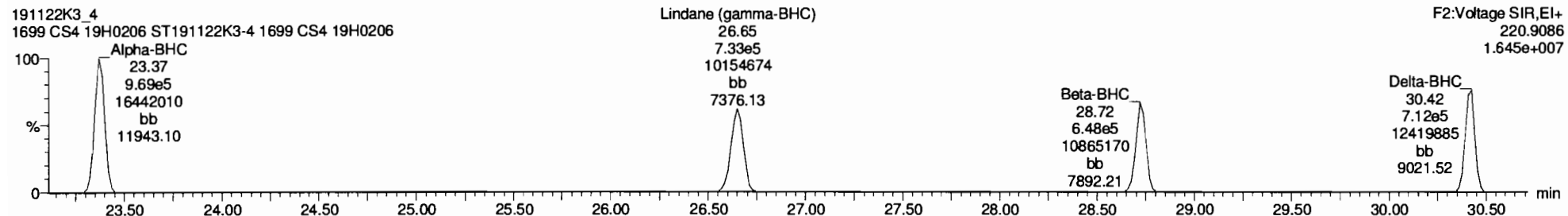
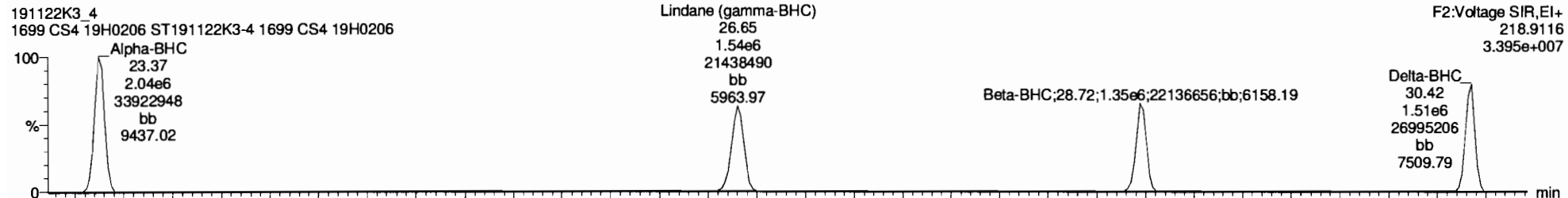


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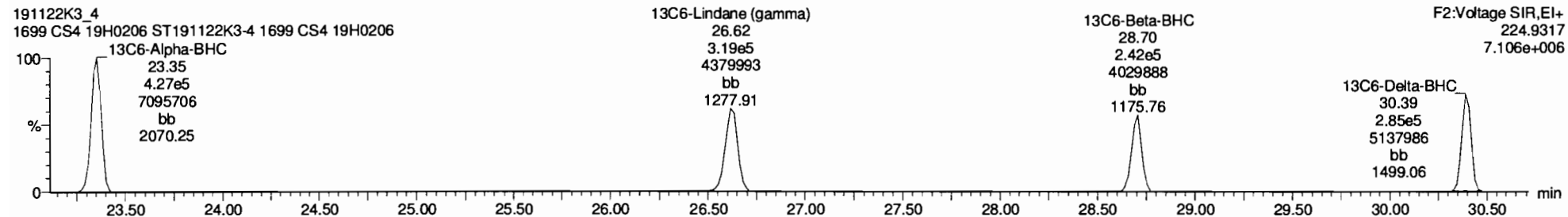
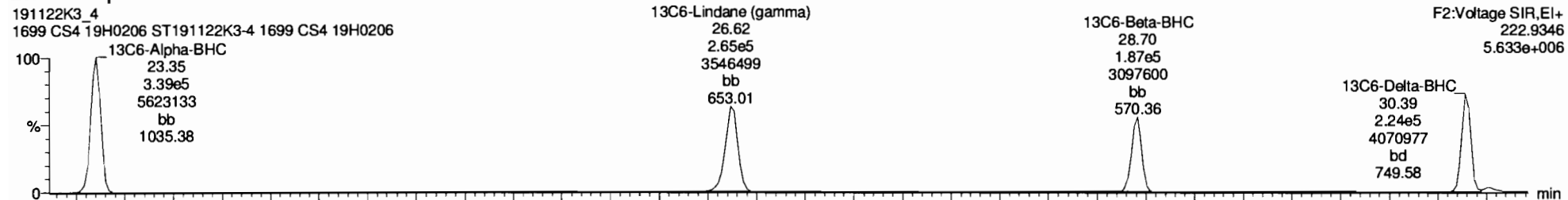
Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_4, Date: 22-Nov-2019, Time: 18:28:36, ID: ST191122K3-4 1699 CS4 19H0206, Description: 1699 CS4 19H0206

BHC Totals



BHC-isotopes



Dataset: Untitled

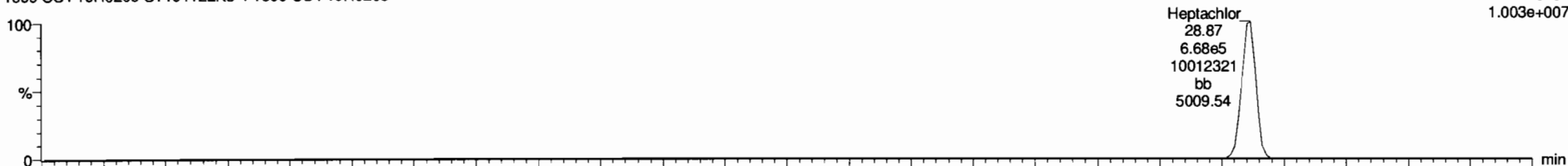
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Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_4, Date: 22-Nov-2019, Time: 18:28:36, ID: ST191122K3-4 1699 CS4 19H0206, Description: 1699 CS4 19H0206

Heptachlor

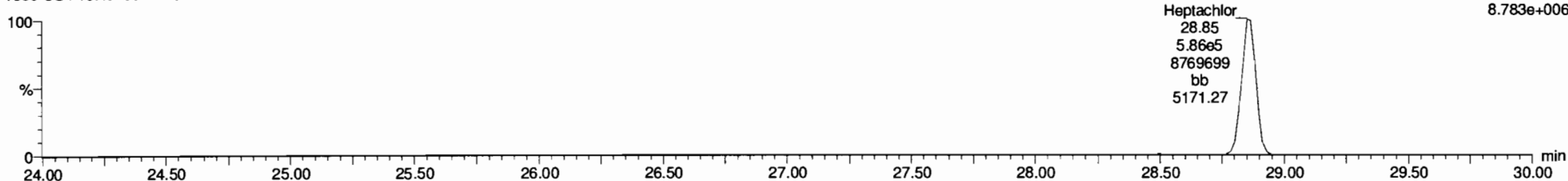
191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

F2:Voltage SIR,EI+
271.8102
1.003e+007



191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

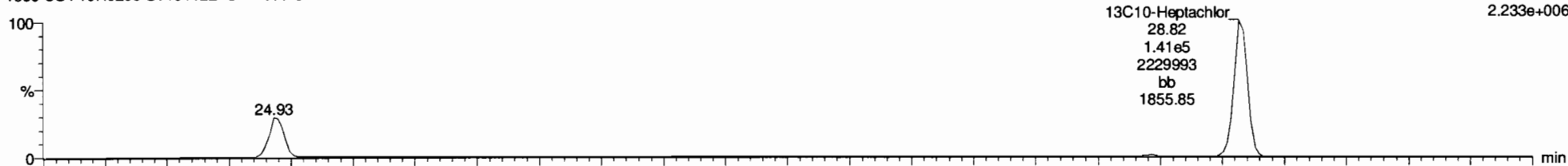
F2:Voltage SIR,EI+
273.8072
8.783e+006



13C10-Heptachlor

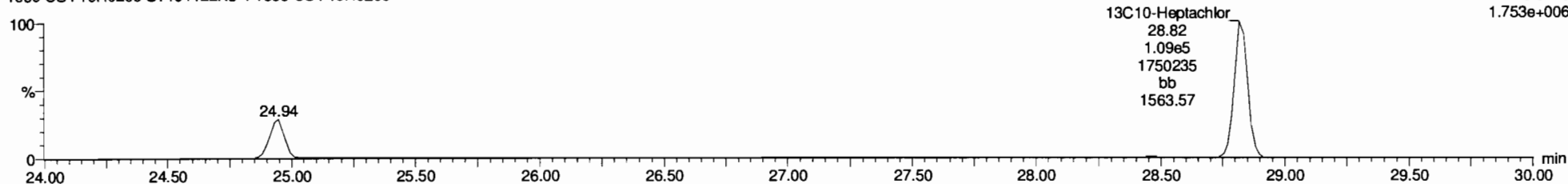
191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

F2:Voltage SIR,EI+
276.8269
2.233e+006



191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

F2:Voltage SIR,EI+
278.8240
1.753e+006



Dataset: Untitled

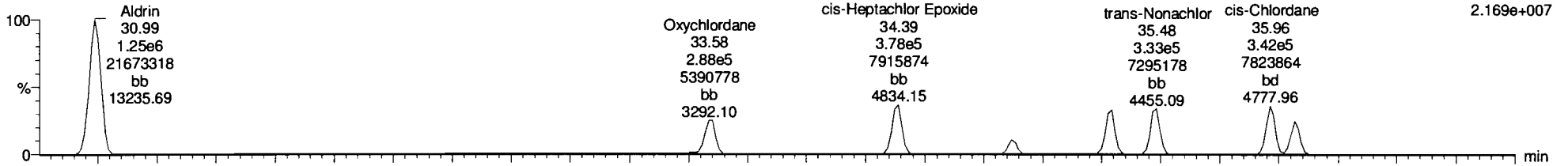
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Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_4, Date: 22-Nov-2019, Time: 18:28:36, ID: ST191122K3-4 1699 CS4 19H0206, Description: 1699 CS4 19H0206

Aldrin-EI

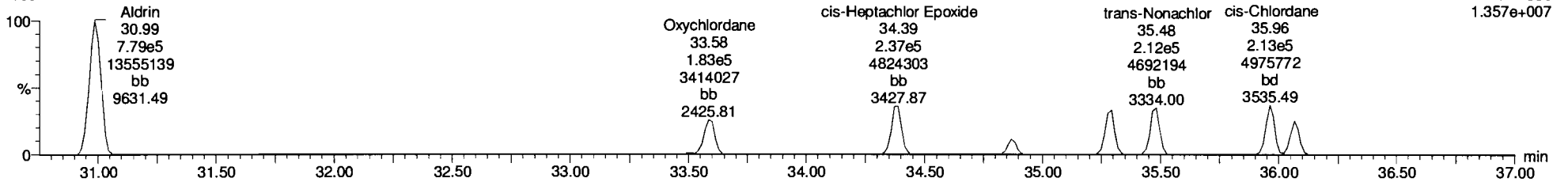
191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

F3:Voltage SIR,EI+
262.8569
2.169e+007



191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

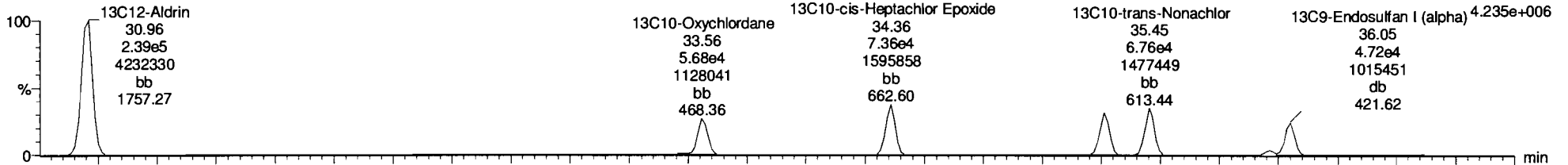
F3:Voltage SIR,EI+
264.8550
1.357e+007



Aldrin-EI-isotopes

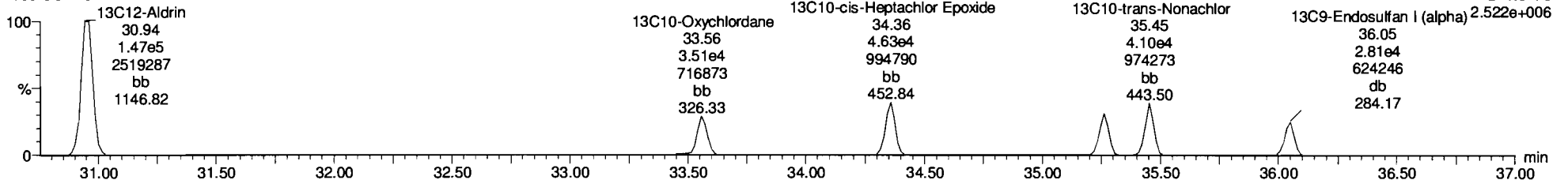
191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

F3:Voltage SIR,EI+
269.8804
4.235e+006



191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

F3:Voltage SIR,EI+
271.8775
2.522e+006



Dataset: Untitled

Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_4, Date: 22-Nov-2019, Time: 18:28:36, ID: ST191122K3-4 1699 CS4 19H0206, Description: 1699 CS4 19H0206

DDMU-DDE

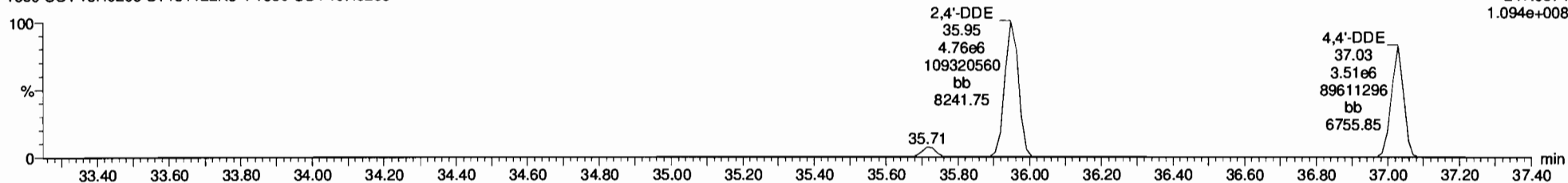
191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

F3:Voltage SIR,EI+
246.0003
1.451e+008



191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

F3:Voltage SIR,EI+
247.9974
1.094e+008



DDE-isotopes

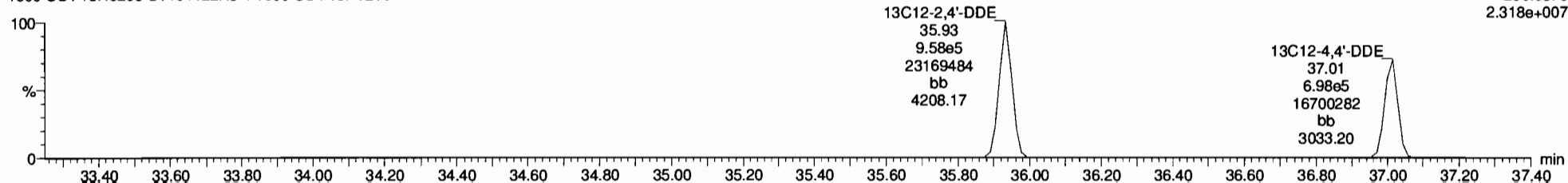
191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

F3:Voltage SIR,EI+
258.0406
3.678e+007



191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

F3:Voltage SIR,EI+
260.0376
2.318e+007

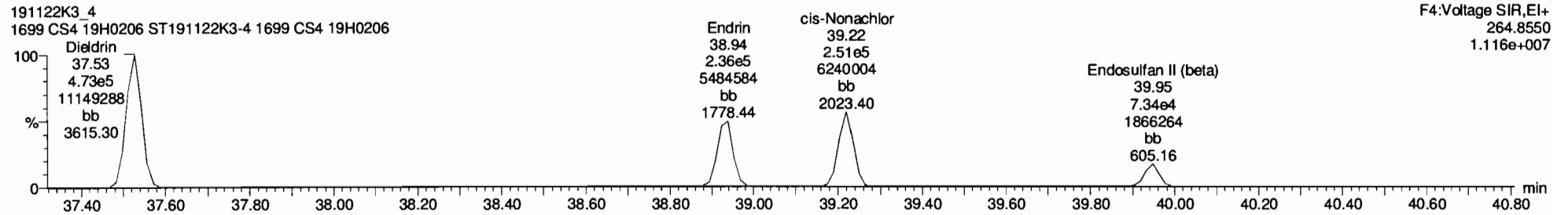
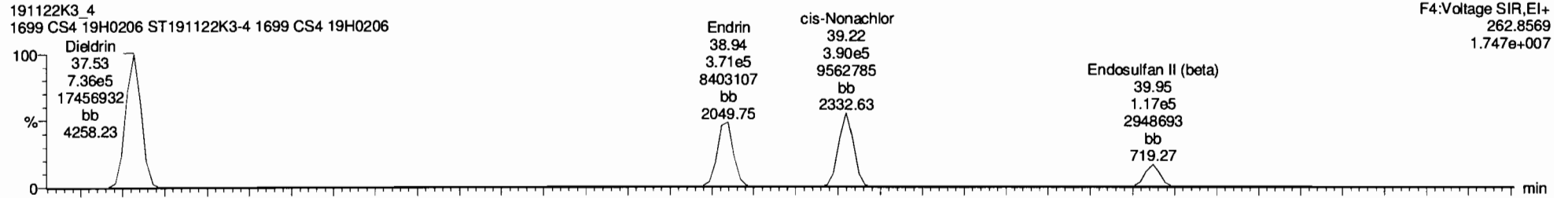


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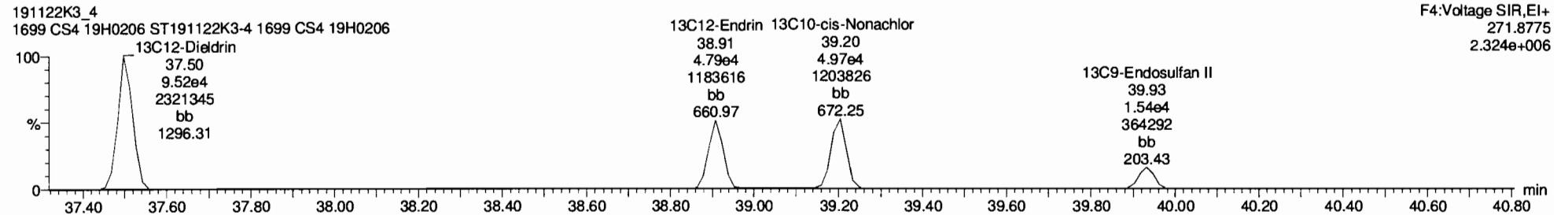
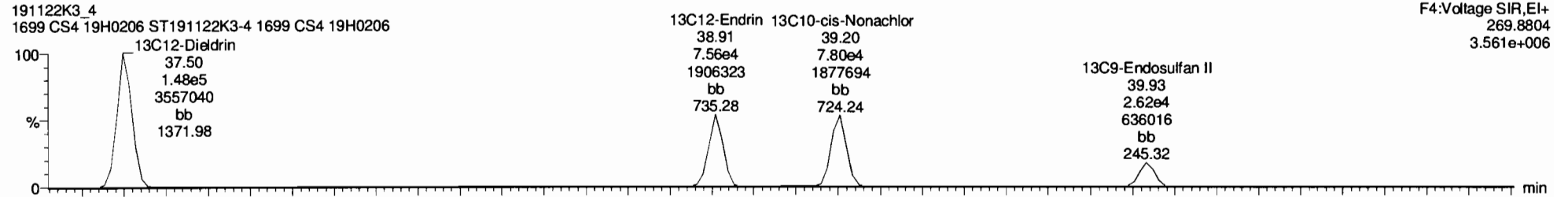
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Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_4, Date: 22-Nov-2019, Time: 18:28:36, ID: ST191122K3-4 1699 CS4 19H0206, Description: 1699 CS4 19H0206

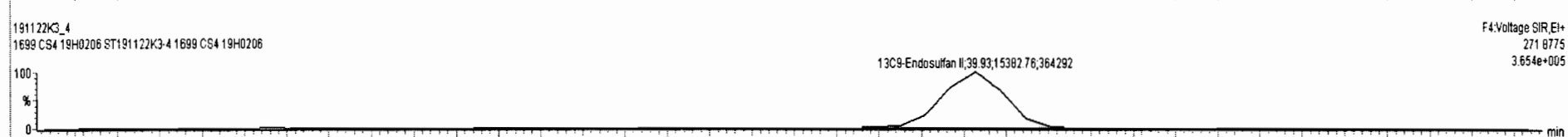
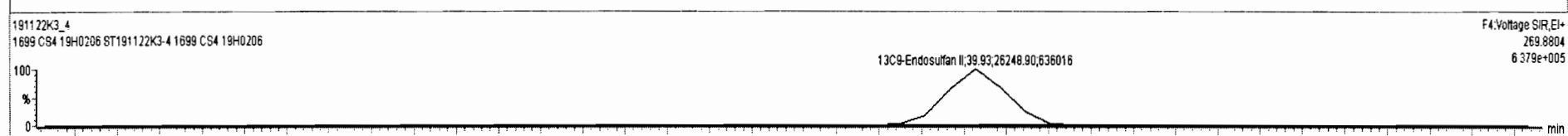
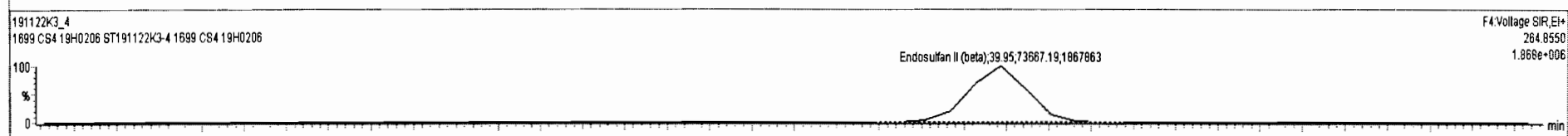
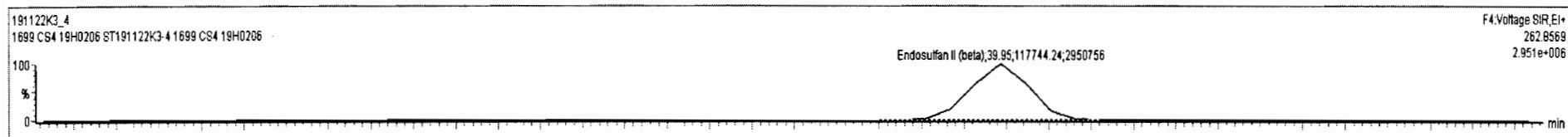
Dieldrin-EII



Dieldrin-EII-isotopes



#	Name	RT	RA	Yth	Area	IS Area	Std. Conc.	%Dev	%RSD	RRF M...	RRF SD
1	Hexachlorobutadiene	10.23	0.047	YES	7.3897e4	4.1143e6	1250.000	-96.0	165	0.179	0.332
2	Hexachlorobenzene	22.83	1.223	NO	9.7321e6	2.1575e6	250.000	3.2	9.56	0.874	0.0836
3	Alpha-BHC	23.37	2.107	NO	3.0118e6	7.6581e5	250.000	3.4	9.29	0.760	0.0706
4	Lindane (gamma-BHC)	26.65	2.097	NO	2.2688e6	5.8348e5	250.000	4.6	10.7	0.744	0.0799
5	Beta-BHC	28.72	2.082	NO	1.9863e6	4.2923e5	250.000	3.8	9.61	0.896	0.0861
6	Delta-BHC	30.42	2.126	NO	2.2247e6	5.0843e5	250.000	4.5	9.98	0.837	0.0835
7	Heptachlor	28.86	1.141	NO	1.2544e6	2.4927e5	250.000	4.0	10.0	0.968	0.0968
8	4,4'-DDE	30.34	3.166	NO	3.3648e6	5.0843e5	250.000	4.5	11.3	1.27	0.143
9	Albin	30.99	1.601	NO	2.0284e6	3.8608e5	250.000	2.5	9.91	1.02	0.101
10	Oxychlorane	33.58	1.576	NO	4.7150e5	9.1878e4	250.000	3.4	9.31	0.992	0.0924
11	cis-Heptachlor Epoxide	34.39	1.593	NO	6.1540e5	1.1982e5	250.000	2.4	10.4	1.00	0.104
12	trans-Heptachlor Epoxide	34.87	1.542	NO	1.6301e5	1.1982e5	250.000	6.7	11.6	0.255	0.0297
13	trans-Chlordane (gamma)	35.29	1.578	NO	5.2482e5	9.7237e4	250.000	-0.4	13.1	1.08	0.142
14	trans-Nonachlor	35.48	1.568	NO	5.4536e5	1.0858e5	250.000	0.2	14.4	1.00	0.144
15	cis-Chlordane	35.96	1.605	NO	5.5577e5	1.0858e5	250.000	4.4	12.3	0.961	0.121
16	Endosulfan I (alpha)	36.06	1.577	NO	3.7325e5	7.5267e4	250.000	-10.4	19.7	1.11	0.218
17	4,4'-DDMU	35.73	3.165	NO	7.8377e6	2.4840e6	250.000	2.3	11.3	0.617	0.0697
18	2,4'-DDE	35.95	1.335	NO	1.1105e7	2.4840e6	250.000	4.7	10.0	0.854	0.0855
19	4,4'-DDE	37.03	1.327	NO	8.1778e6	1.8068e6	250.000	3.7	10.3	0.873	0.0898
20	Dieldrin	37.53	1.557	NO	1.2095e6	2.4361e5	250.000	3.8	10.0	0.957	0.0957
21	Endrin	38.94	1.573	NO	6.0629e5	1.2354e5	250.000	5.3	10.5	0.933	0.0975
22	cis-Nonachlor	39.22	1.553	NO	6.4054e5	1.2784e5	250.000	5.0	12.2	0.956	0.117
23	Endosulfan II (beta)	39.95	1.588	NO	1.9141e5	4.1832e4	250.000	-13.6	19.9	1.06	0.212



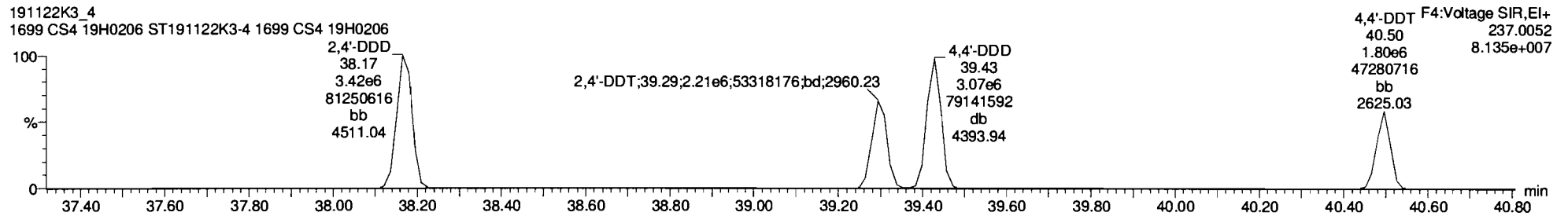
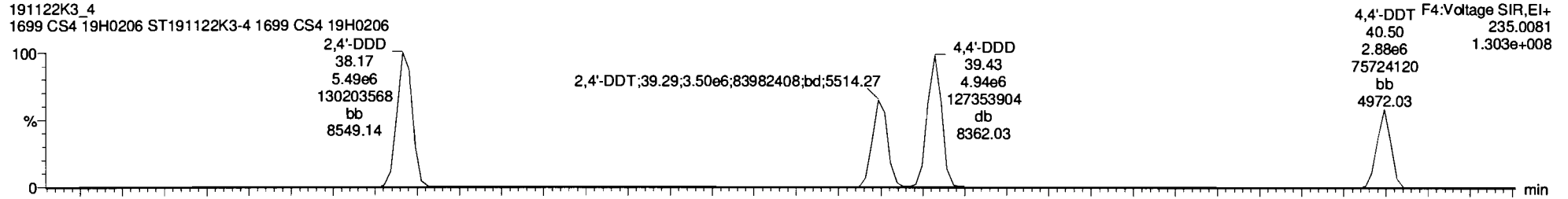
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Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

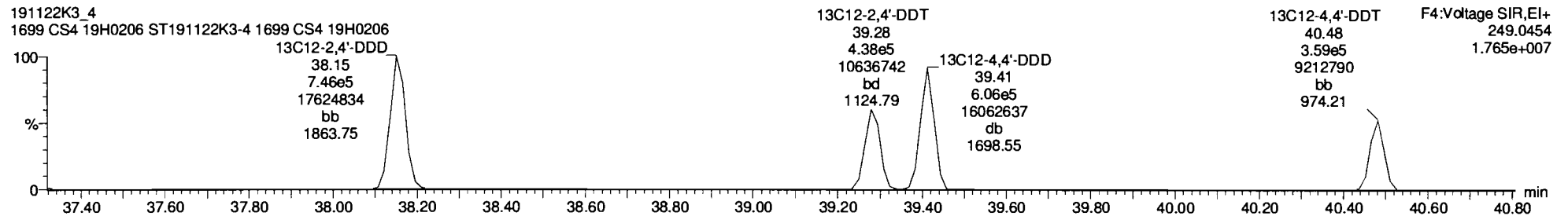
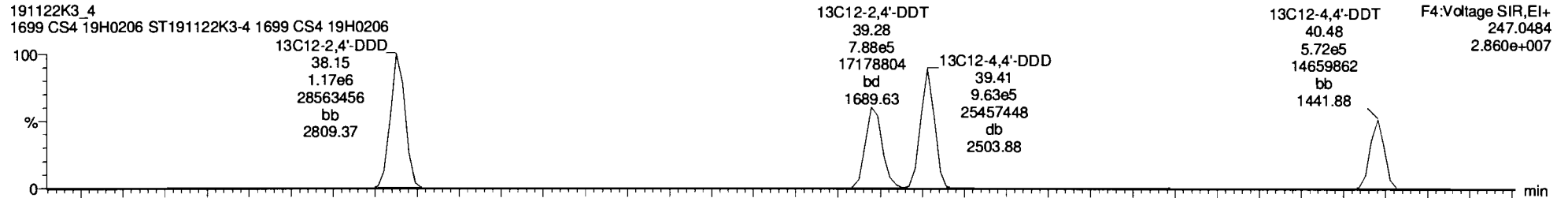
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_4, Date: 22-Nov-2019, Time: 18:28:36, ID: ST191122K3-4 1699 CS4 19H0206, Description: 1699 CS4 19H0206

DDD-DDT



DDD-DDT-isotopes



Dataset: Untitled

Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

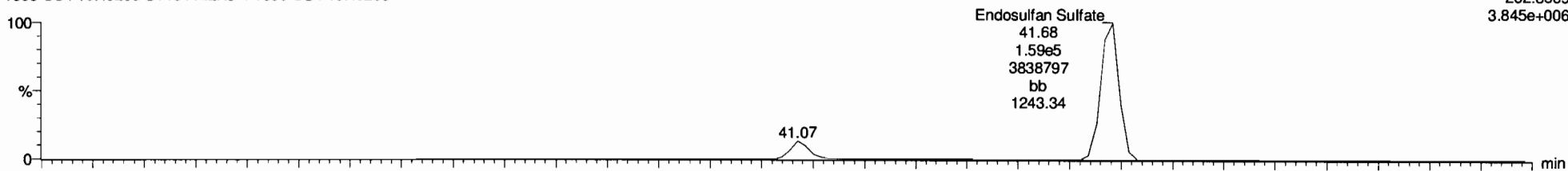
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_4, Date: 22-Nov-2019, Time: 18:28:36, ID: ST191122K3-4 1699 CS4 19H0206, Description: 1699 CS4 19H0206

Endosulfan Sulfate

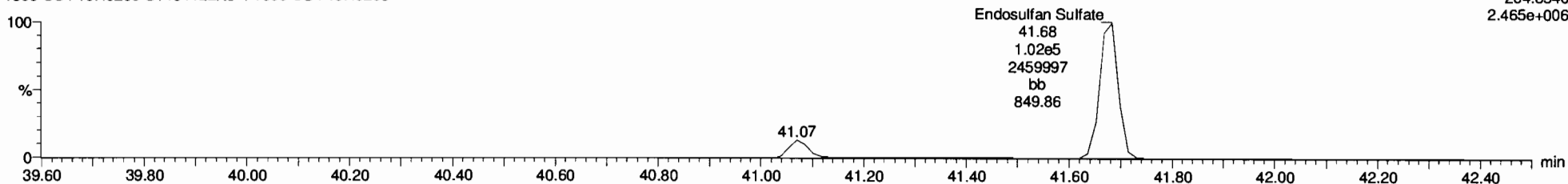
191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

F5:Voltage SIR,EI+
262.8569
3.845e+006



191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

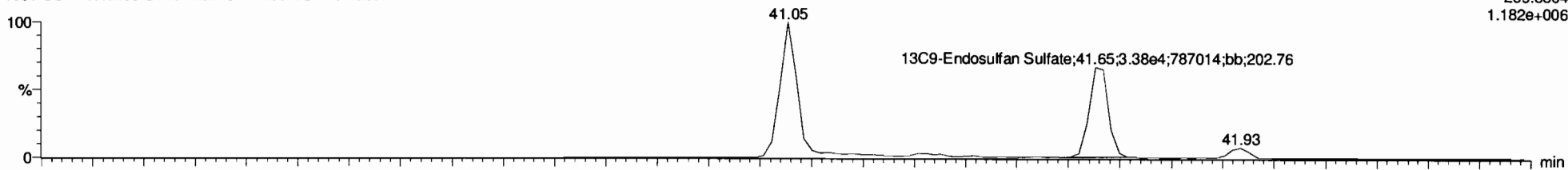
F5:Voltage SIR,EI+
264.8540
2.465e+006



13C9-Endosulfan Sulfate

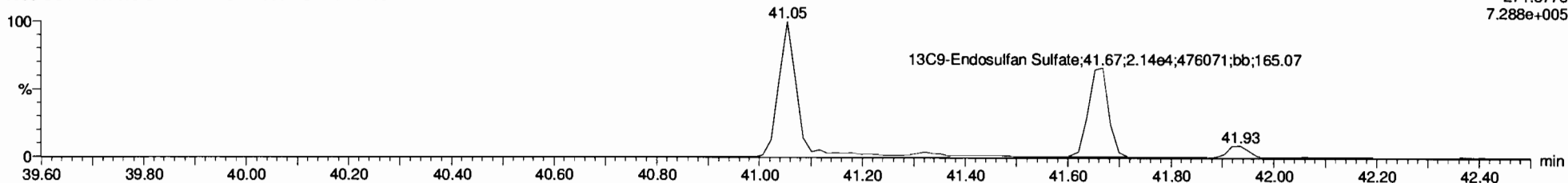
191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

F5:Voltage SIR,EI+
269.8804
1.182e+006



191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

F5:Voltage SIR,EI+
271.8775
7.288e+005



Dataset: Untitled

Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

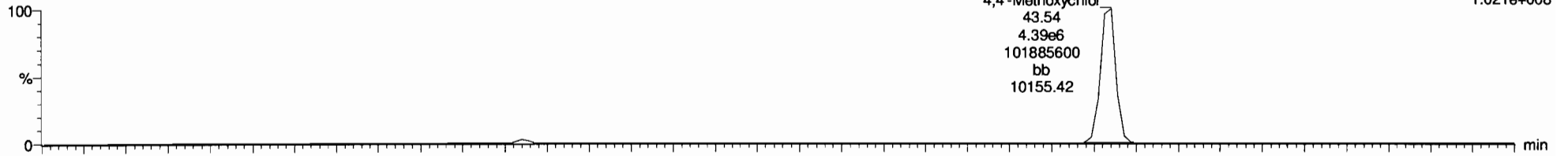
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_4, Date: 22-Nov-2019, Time: 18:28:36, ID: ST191122K3-4 1699 CS4 19H0206, Description: 1699 CS4 19H0206

4,4'-Methoxychlor

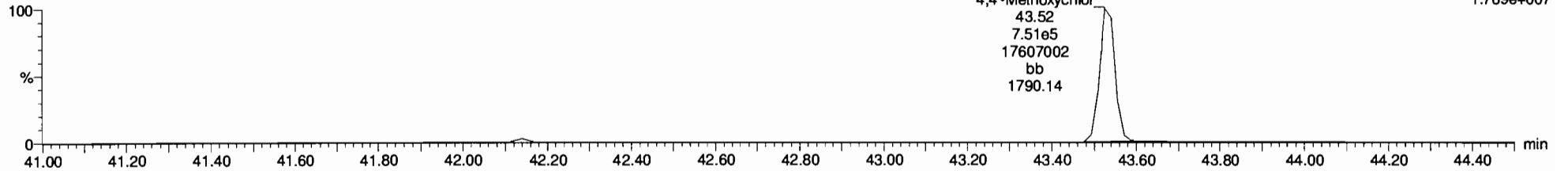
191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

F5:Voltage SIR,El+
227.1072
1.021e+008



191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

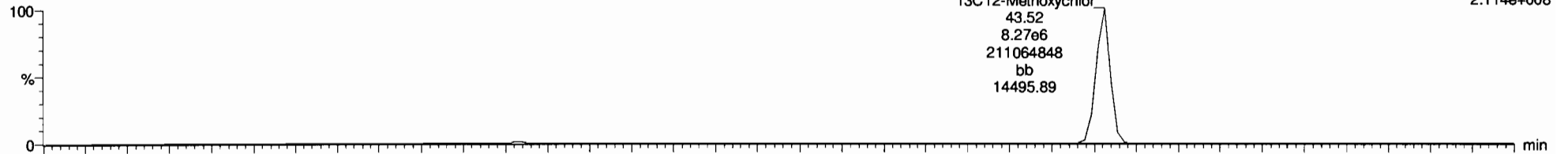
F5:Voltage SIR,El+
228.1106
1.769e+007



13C12-Methoxychlor

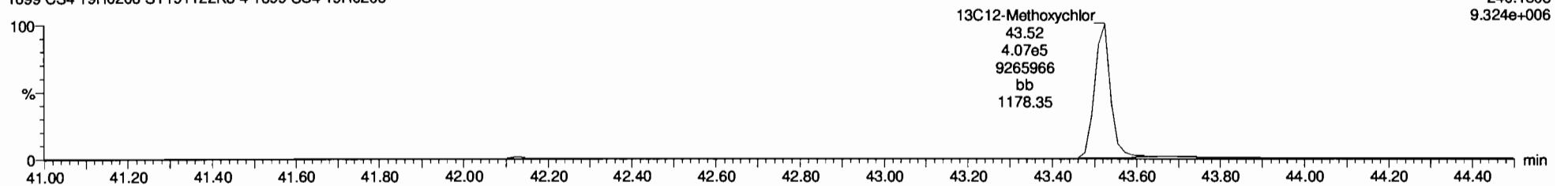
191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

F5:Voltage SIR,El+
239.1475
2.114e+008



191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

F5:Voltage SIR,El+
240.1508
9.324e+006



Dataset: Untitled

Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

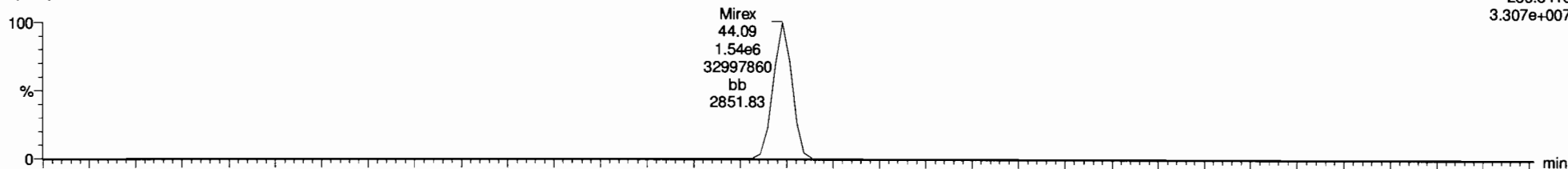
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_4, Date: 22-Nov-2019, Time: 18:28:36, ID: ST191122K3-4 1699 CS4 19H0206, Description: 1699 CS4 19H0206

Mirex

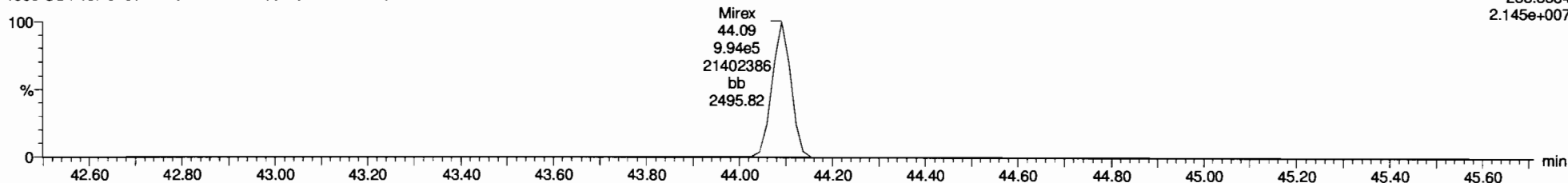
191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

F5:Voltage SIR,EI+
236.8413
3.307e+007



191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

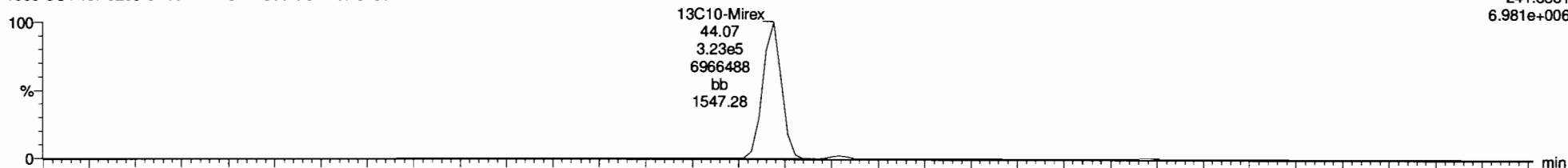
F5:Voltage SIR,EI+
238.8384
2.145e+007



13C10-Mirex

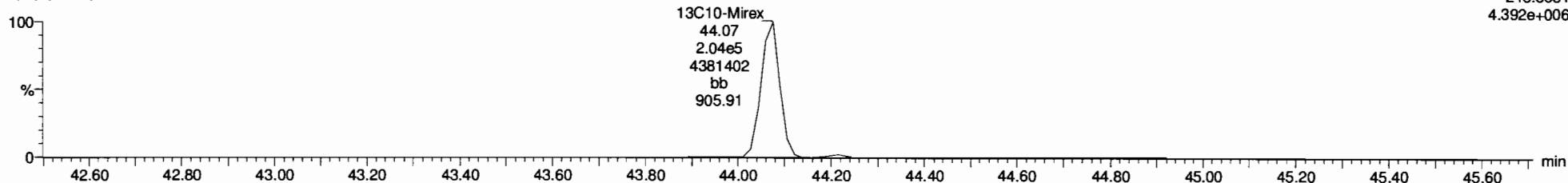
191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

F5:Voltage SIR,EI+
241.8581
6.981e+006



191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

F5:Voltage SIR,EI+
243.8551
4.392e+006



Dataset: Untitled

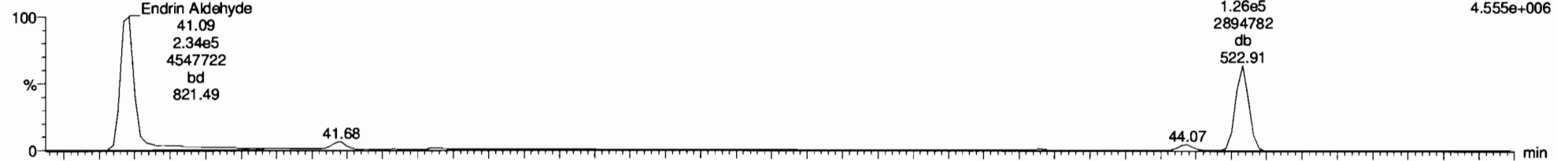
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Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

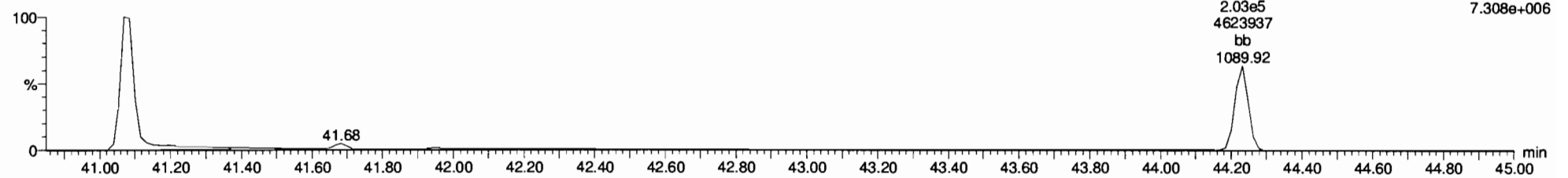
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EA-EK

191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

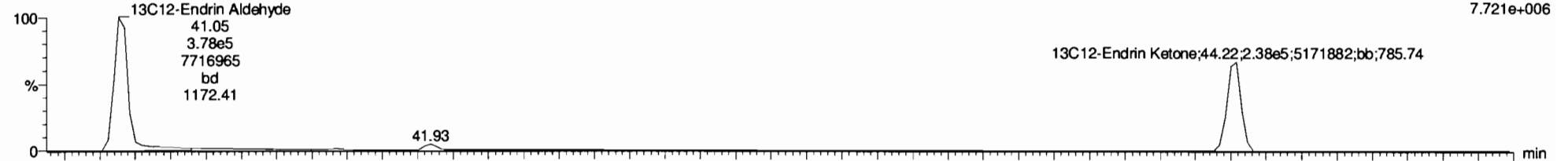


191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

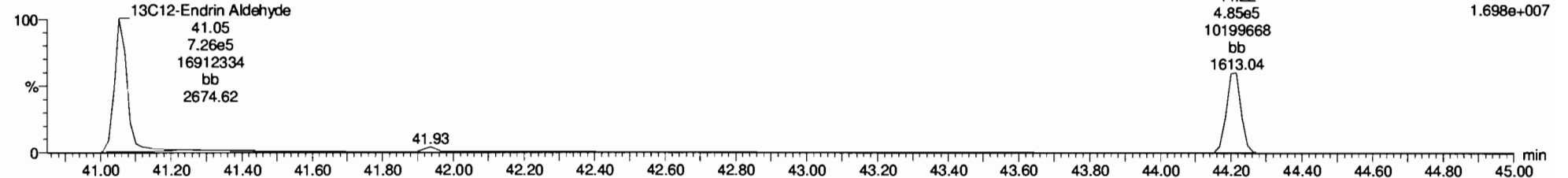


EA-EK-isotopes

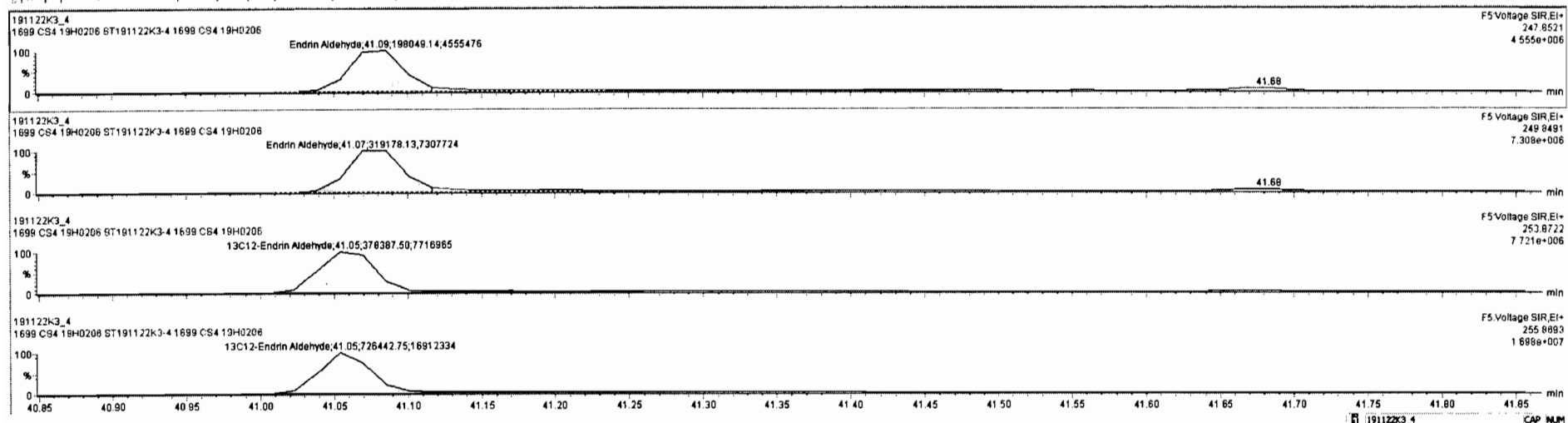
191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206



191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206



#	Name	RT	RA	Yth	Area	IS Area	Std. Conc.	%Dev	%RSD	RPF M...	RPF SD
24	2,4'-DDD	38.17	1.505	NO	8.9033e6	1.9142e6	250.000	1.6	9.76	0.915	0.0893
25	2,4'-DDT	39.29	1.587	NO	5.7048e6	1.2281e6	250.000	1.1	12.6	0.921	0.116
26	2,4'-DDD	39.43	1.607	NO	8.0051e6	1.5684e6	250.000	1.7	10.1	1.00	0.101
27	4,4'-DDT	40.50	1.598	NO	4.8826e6	9.3104e5	250.000	2.0	9.87	0.986	0.0974
28	Endosulfen Sulfate	41.68	1.558	NO	2.6177e5	5.5228e4	250.000	2.2	14.2	0.928	0.131
29	4,4'-Methoxychlor	43.54	5.845	NO	5.1427e6	8.6778e6	250.000	4.3	10.6	1.14	0.120
30	Mirex	44.09	1.550	NO	2.5343e6	5.2631e5	250.000	3.3	11.1	0.937	0.103
31	Endrin Aldehyde	41.08	0.820	NO	5.1723e6	1.1048e6	250.000	1.9	12.7	0.919	0.116
32	Endrin Ketone	44.23	0.820	NO	3.2917e5	7.2298e5	250.000	-0.0	11.1	0.911	0.101
33	13C4-Hexachlorobutadiene	10.21	1.262	NO	4.1143e6	3.2237e6	500.000	-7.6	17.5	0.138	0.0241
34	13C8-Hexachlorobenzene	22.81	1.276	NO	2.1575e6	3.2237e6	50.000	-3.2	2.01	0.691	0.0139
35	13C8-Alpha-BHC	23.35	0.794	NO	7.6581e5	3.2237e6	50.000	-3.3	2.06	0.246	0.00508
36	13C8-Lindane (gamma)	26.62	0.831	NO	5.8348e5	3.2237e6	50.000	-4.4	7.50	0.189	0.0142
37	13C8-Beta-BHC	28.70	0.773	NO	4.2923e5	3.2237e6	50.000	-5.3	4.17	0.141	0.00587
38	13C8-Delta-BHC	30.39	0.786	NO	5.0843e5	3.2237e6	50.000	-4.1	4.21	0.164	0.00692
39	13C10-Heptachlor	28.82	1.294	NO	2.4927e5	3.2237e6	50.000	0.5	9.17	0.0770	0.00705
40	40 13C12-Aldrin	30.96	1.623	NO	3.8608e5	3.2237e6	50.000	-1.5	3.19	0.122	0.00388
41	41 13C10-Oxychlorane	33.58	1.817	NO	9.1878e4	3.2237e6	50.000	0.7	8.55	0.0283	0.00242
42	42 13C10-cis-Heptachlor Epo...	34.36	1.591	NO	1.1982e5	3.2237e6	50.000	1.5	8.94	0.0366	0.00327
43	43 13C10-trans-Heptachlor (g...	35.26	1.796	NO	9.7237e4	3.2237e6	50.000	3.4	5.12	0.0292	0.00149
44	44 13C10-trans-Chlorochlor	35.45	1.648	NO	1.0858e5	3.2237e6	50.000	1.0	9.41	0.0333	0.00314
45	45 13C9-Endosulfen (alpha)	36.05	1.682	NO	7.5287e4	3.2237e6	50.000	10.1	7.38	0.0212	0.00156
46	46 13C12-2,4'-DDE	35.93	1.592	NO	2.4840e5	3.2237e6	50.000	1.0	4.08	0.763	0.0312



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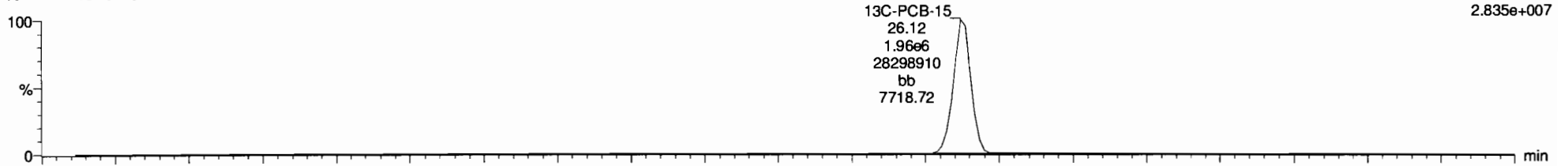
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_4, Date: 22-Nov-2019, Time: 18:28:36, ID: ST191122K3-4 1699 CS4 19H0206, Description: 1699 CS4 19H0206

13C-PCB-15

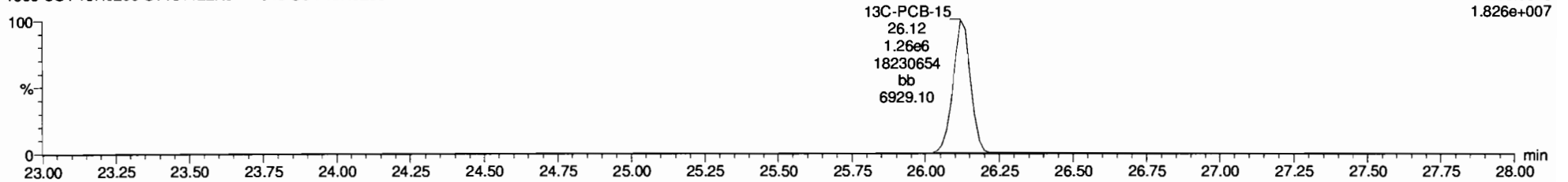
191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

F2:Voltage SIR,EI+
234.0406
2.835e+007



191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

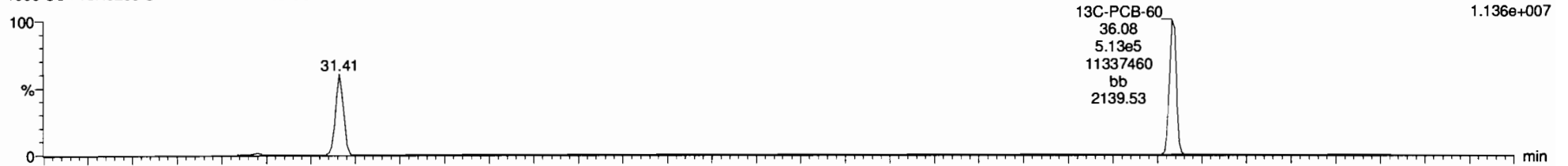
F2:Voltage SIR,EI+
236.0376
1.826e+007



13C-PCB-60

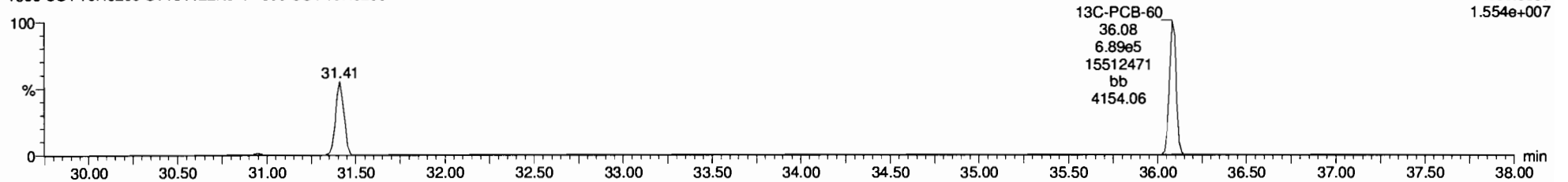
191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

F3:Voltage SIR,EI+
301.9626
1.136e+007



191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

F3:Voltage SIR,EI+
303.9597
1.554e+007



Dataset: Untitled

Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

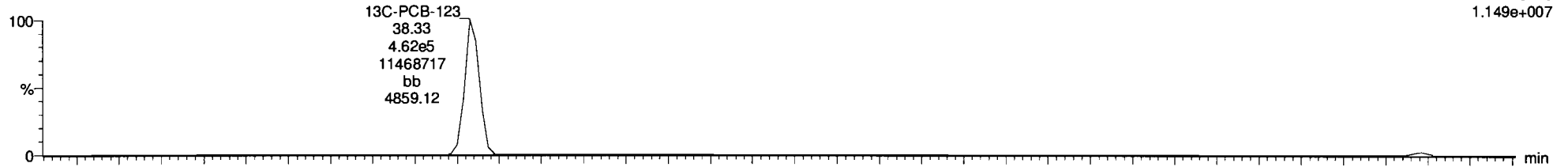
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

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13C-PCB-123

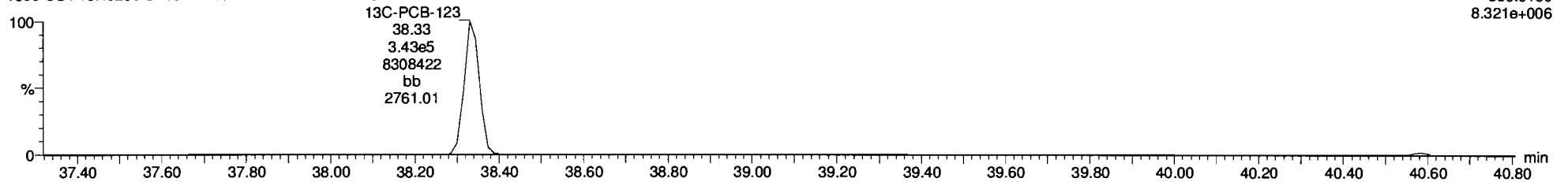
191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

F4:Voltage SIR,EI+
337.9210
1.149e+007



191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

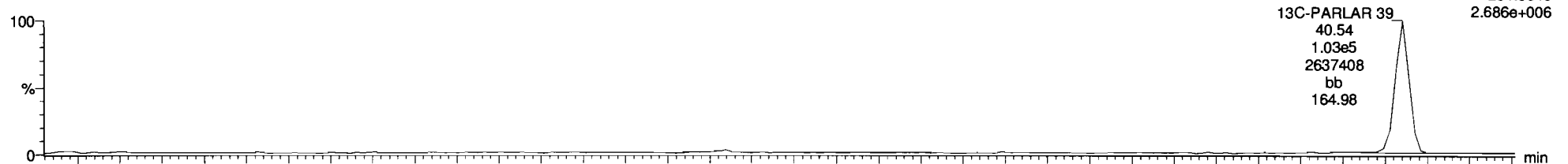
F4:Voltage SIR,EI+
339.9180
8.321e+006



13C-PARLAR 39

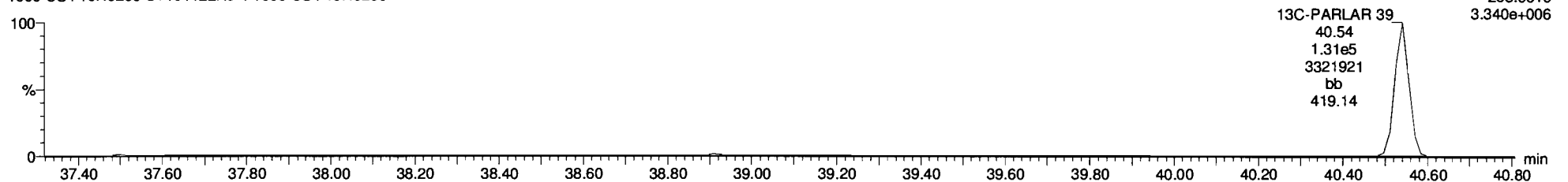
191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

F4:Voltage SIR,EI+
251.9648
2.686e+006



191122K3_4
1699 CS4 19H0206 ST191122K3-4 1699 CS4 19H0206

F4:Voltage SIR,EI+
253.9619
3.340e+006



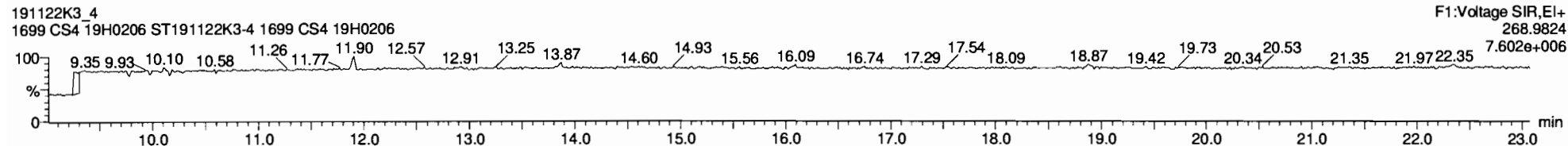
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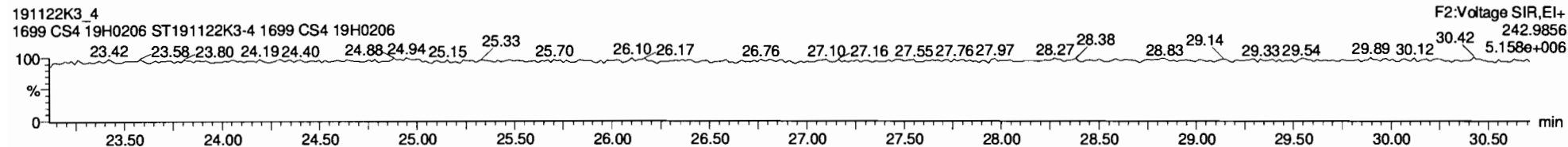
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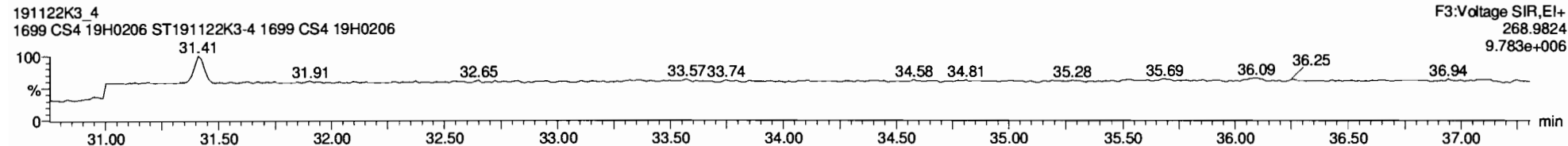
PFK1



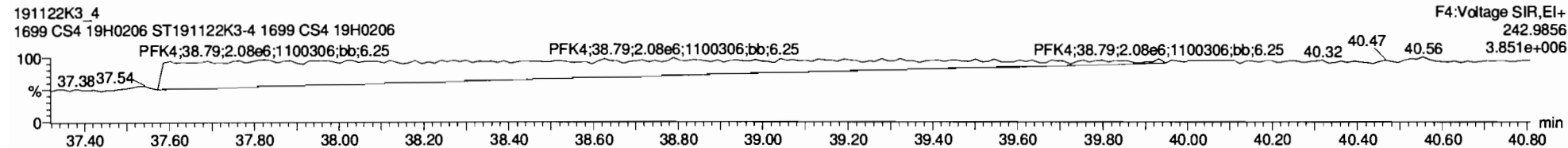
PFK2



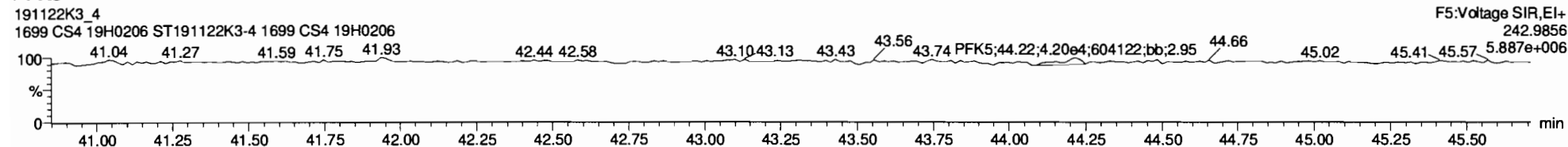
PFK3



PFK4



PFK5



Dataset: Untitled

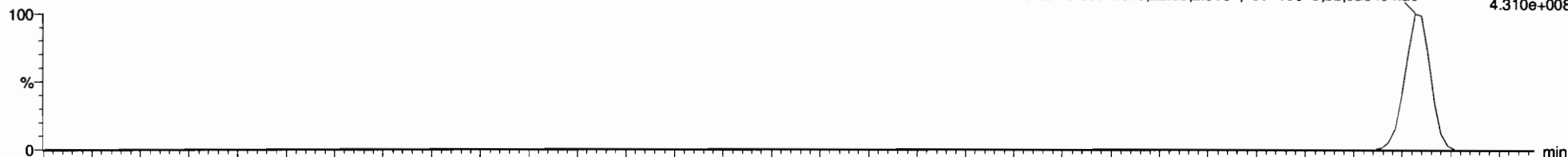
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Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

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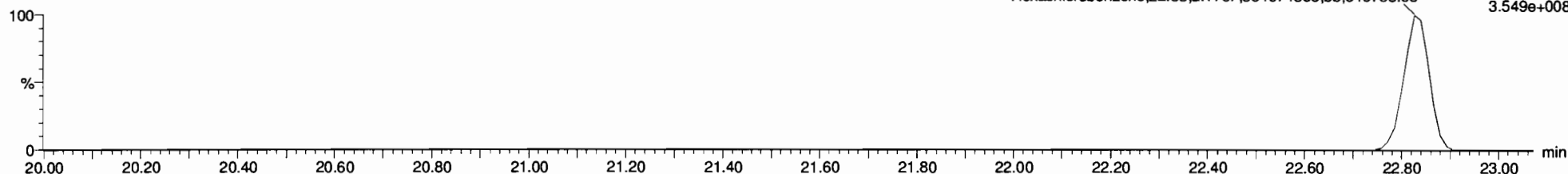
Hexachlorobenzene

191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207



F1:Voltage SIR,EI+
283.8102
4.310e+008

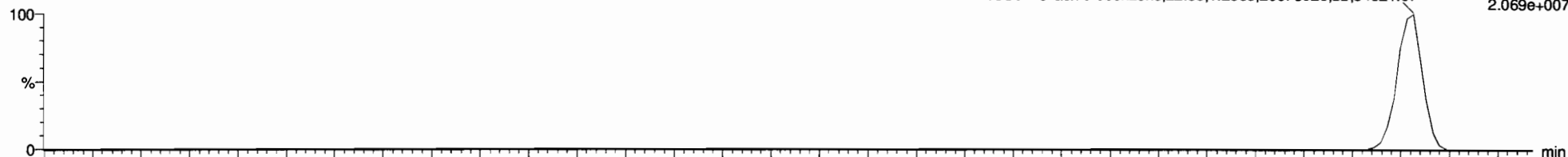
191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207



F1:Voltage SIR,EI+
285.8072
3.549e+008

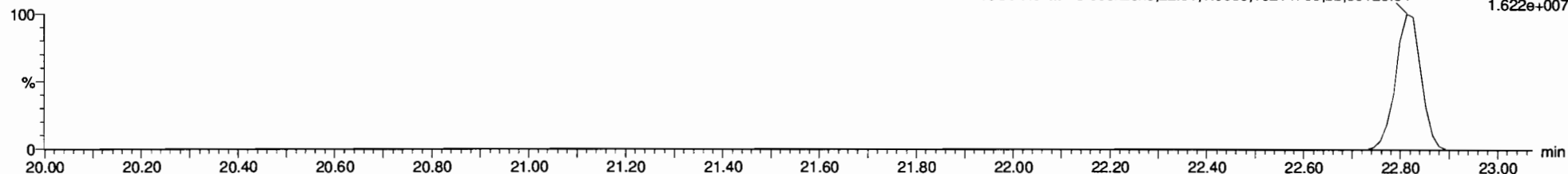
13C6-Hexachlorobenzene

191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207



F1:Voltage SIR,EI+
289.8303
2.069e+007

191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207



F1:Voltage SIR,EI+
291.8273
1.622e+007

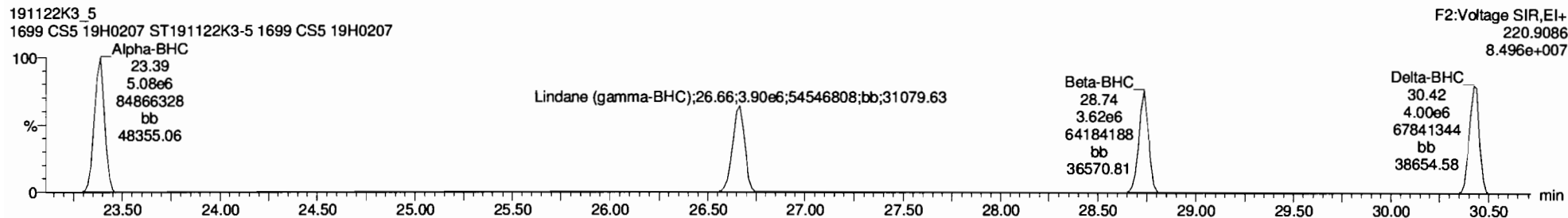
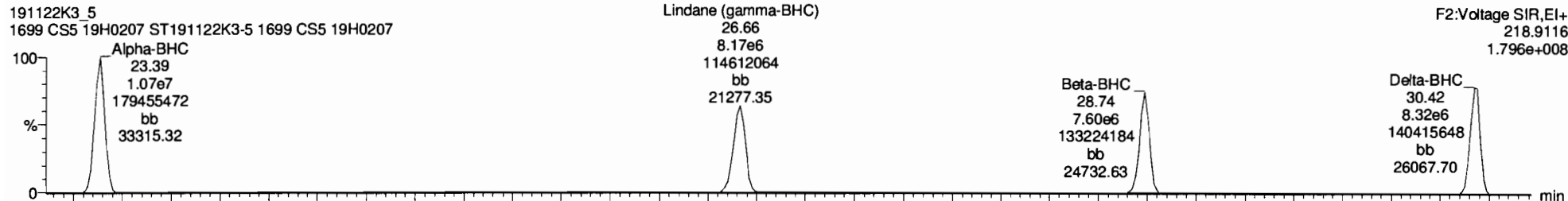
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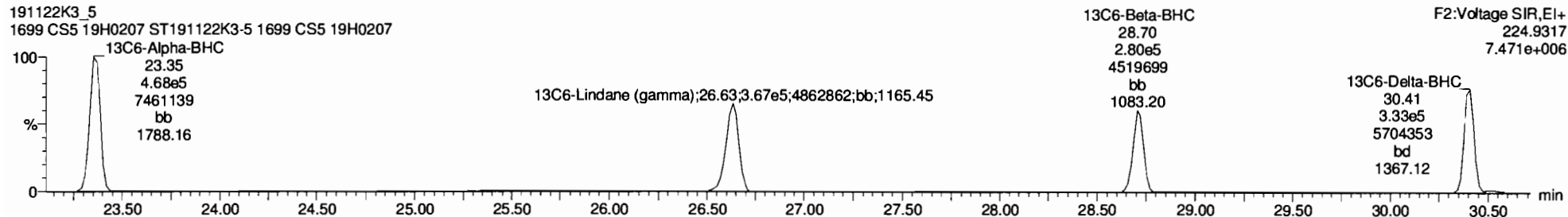
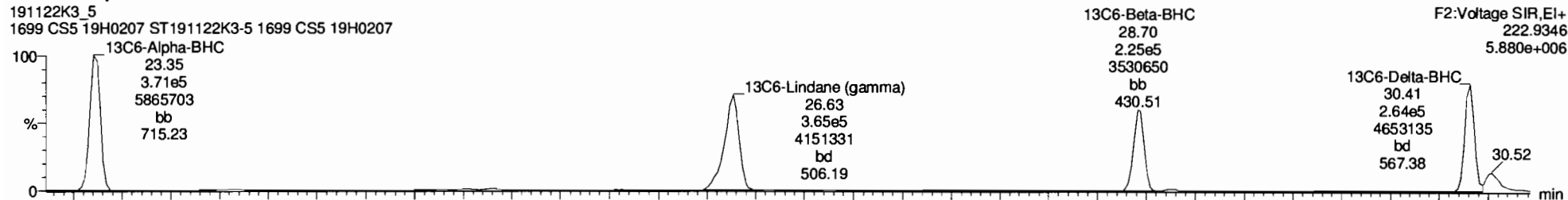
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

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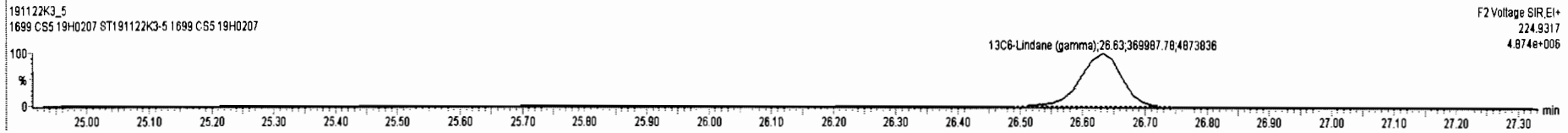
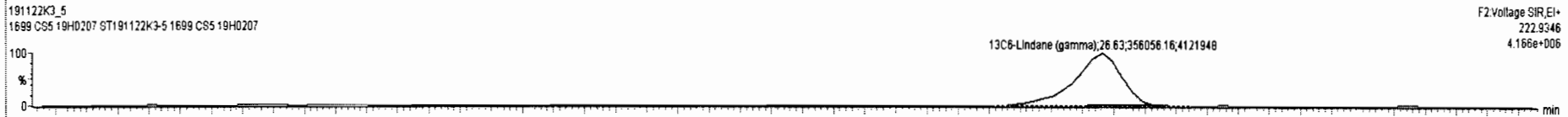
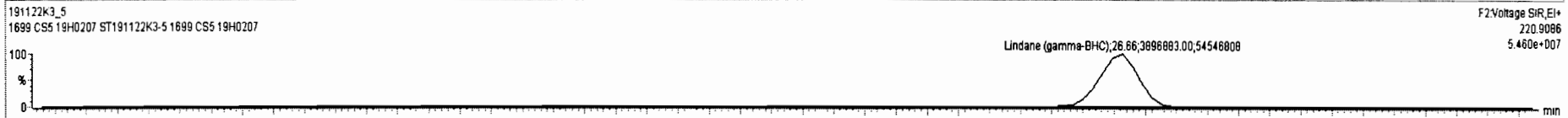
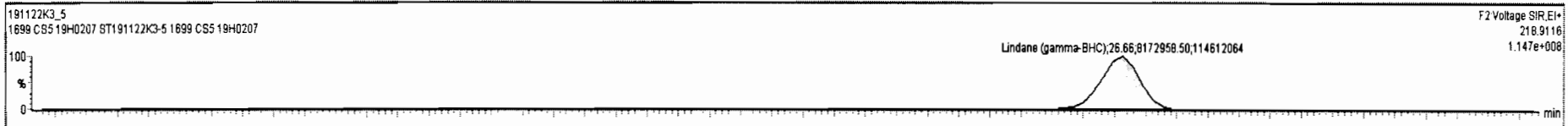
BHC Totals



BHC-isotopes



#	Name	Resp	RA	nly	RRF	wtAvl	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
2	Hexachlorobenzene	4.84e7	1.22	NO	0.8743	1.000	22.85	22.83	1.001	1.000	NO	1215	101	0.00342	1215
3	Alpha-BHC	1.58e7	2.10	NO	0.7605	1.000	23.40	23.39	1.002	1.001	NO	1234	103	0.0685	1234
4	Lindane (gamma-BHC)	4.21e7	2.10	NO	0.7444	1.000	26.66	26.66	1.001	1.001	NO	1117	93.0	0.143	1117
5	Beta-BHC	1.12e7	2.10	NO	0.8960	1.000	26.71	26.74	1.000	1.001	NO	1240	103	0.126	1240
6	Delta-BHC	1.22e7	2.08	NO	0.8374	1.000	30.43	30.42	1.001	1.001	NO	1232	103	0.101	1232
7	Heptachlor	7.33e6	1.14	NO	0.9677	1.000	26.86	26.86	1.001	1.001	NO	1268	106	0.159	1268
8	4,4'-DDMU	1.89e7	3.14	NO	1.2680	1.000	30.33	30.34	0.997	0.998	NO	1253	104	0.0964	1253
9	Aldrin	1.05e7	1.59	NO	1.0236	1.000	30.99	31.00	1.001	1.001	NO	1213	101	0.0944	1213
10	Oxychlorane	2.66e6	1.62	NO	0.9924	1.000	33.59	33.60	1.001	1.001	NO	1220	102	0.310	1220
11	cis-Heptachlor Epoxide	3.40e6	1.61	NO	1.0028	1.000	34.39	34.39	1.001	1.000	NO	1192	99.4	0.289	1192
12	trans-Heptachlor Epoxide	8.95e5	1.58	NO	0.2550	1.000	34.88	34.88	1.015	1.015	NO	1233	103	1.06	1233
13	trans-Chlordane (gamma)	2.70e6	1.58	NO	1.0836	1.000	35.30	35.29	1.001	1.000	NO	937.1	78.1	0.274	937.1
14	trans-Nonachlor	2.84e6	1.59	NO	1.0022	1.000	35.49	35.48	1.001	1.000	NO	1076	89.6	0.283	1076
15	cis-Chlordane	2.80e6	1.58	NO	0.9810	1.000	35.97	35.98	1.014	1.014	NO	1083	90.2	0.289	1083
16	Endosulfan I (alpha)	1.96e6	1.58	NO	1.1062	1.000	36.09	36.08	1.001	1.000	NO	786.4	65.5	0.313	786.4
17	4,4'-DDMU	4.21e7	3.15	NO	0.6167	1.000	35.74	35.73	0.994	0.994	NO	1311	109	0.0526	1311
18	2,4'-DDE	5.27e7	1.34	NO	0.8542	1.000	35.96	35.96	1.000	1.000	NO	1185	98.8	0.0585	1185
19	4,4'-DDE	4.08e7	1.32	NO	0.8726	1.000	37.03	37.04	1.000	1.001	NO	1184	98.7	0.0730	1184
20	Dieldrin	5.96e6	1.57	NO	0.9570	1.000	37.53	37.53	1.000	1.000	NO	1200	100	0.358	1200
21	Endrin	3.35e6	1.57	NO	0.9326	1.000	38.92	38.94	1.000	1.000	NO	1261	105	0.664	1261
22	cis-Nonachlor	3.22e6	1.57	NO	0.9566	1.000	39.23	39.23	1.000	1.000	NO	1129	94.1	0.650	1129
23	Endosulfan I (beta)	1.02e6	1.53	NO	1.0639	1.000	39.95	39.96	1.000	1.000	NO	632.7	52.7	1.09	632.7
24	2,4'-DDD	5.24e7	1.59	NO	0.9153	1.000	38.17	38.18	1.000	1.000	NO	1194	99.5	0.174	1194



Dataset: Untitled

Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

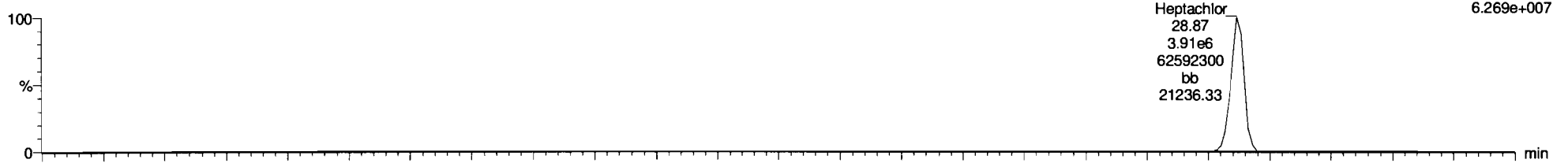
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_5, Date: 22-Nov-2019, Time: 19:17:45, ID: ST191122K3-5 1699 CS5 19H0207, Description: 1699 CS5 19H0207

Heptachlor

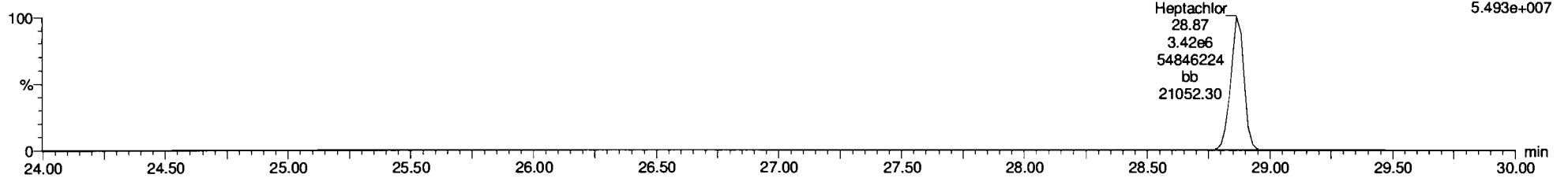
191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

F2:Voltage SIR,EI+
271.8102
6.269e+007



191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

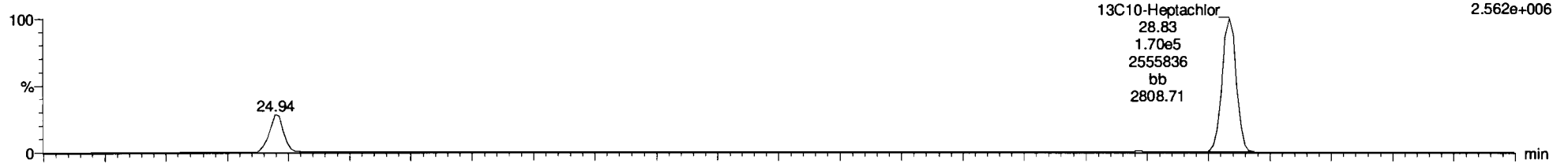
F2:Voltage SIR,EI+
273.8072
5.493e+007



13C10-Heptachlor

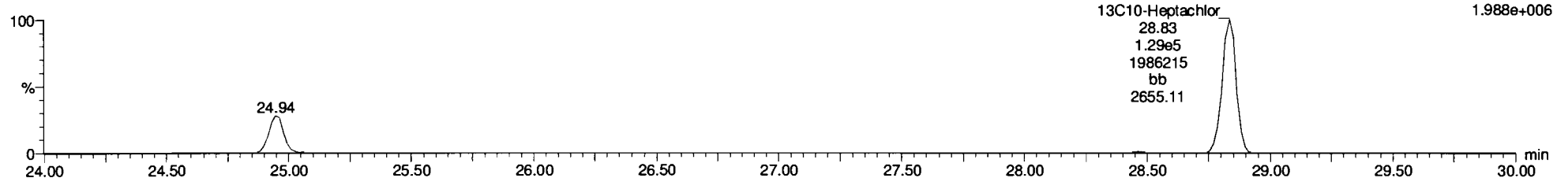
191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

F2:Voltage SIR,EI+
276.8269
2.562e+006



191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

F2:Voltage SIR,EI+
278.8240
1.988e+006



Dataset: Untitled

Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

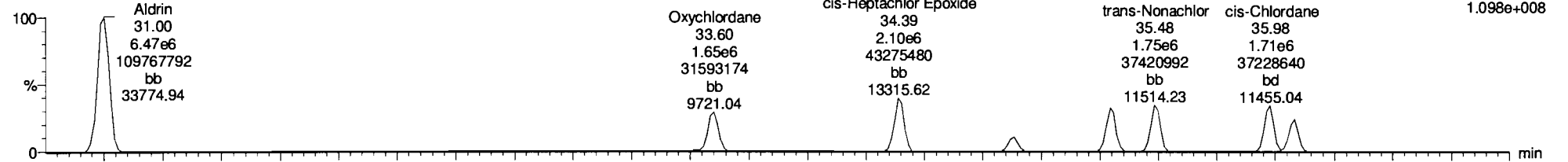
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_5, Date: 22-Nov-2019, Time: 19:17:45, ID: ST191122K3-5 1699 CS5 19H0207, Description: 1699 CS5 19H0207

Aldrin-EI

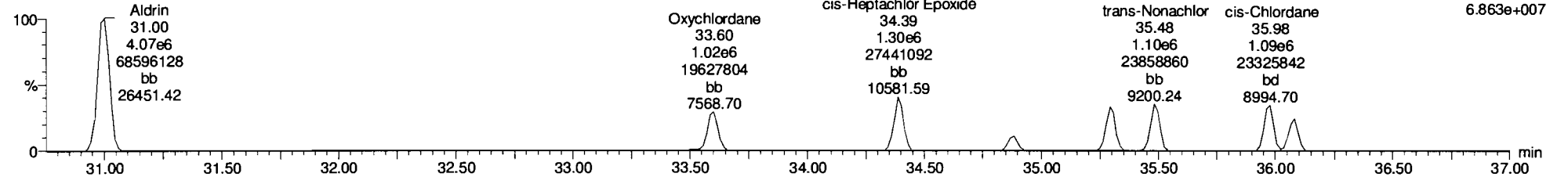
191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

F3:Voltage SIR,EI+
262.8569
1.098e+008



191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

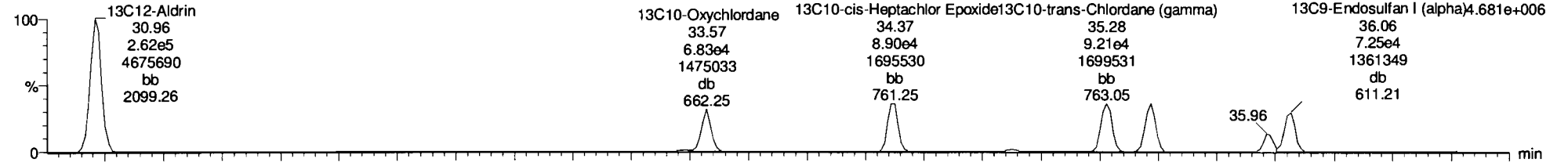
F3:Voltage SIR,EI+
264.8550
6.863e+007



Aldrin-EI-isotopes

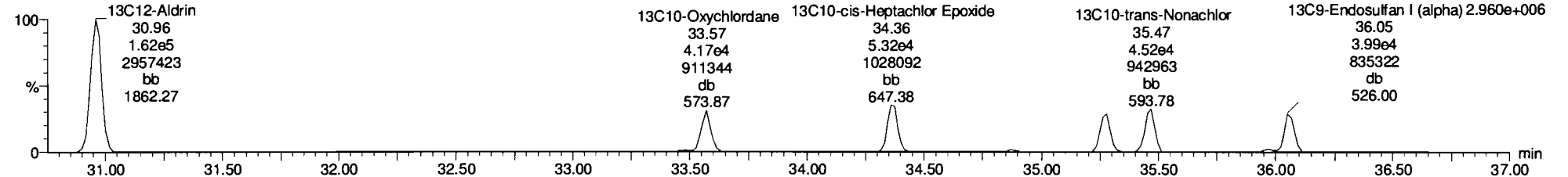
191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

F3:Voltage SIR,EI+
269.8804
4.681e+006



191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

F3:Voltage SIR,EI+
271.8775
2.960e+006



Dataset: Untitled

Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_5, Date: 22-Nov-2019, Time: 19:17:45, ID: ST191122K3-5 1699 CS5 19H0207, Description: 1699 CS5 19H0207

DDMU-DDE

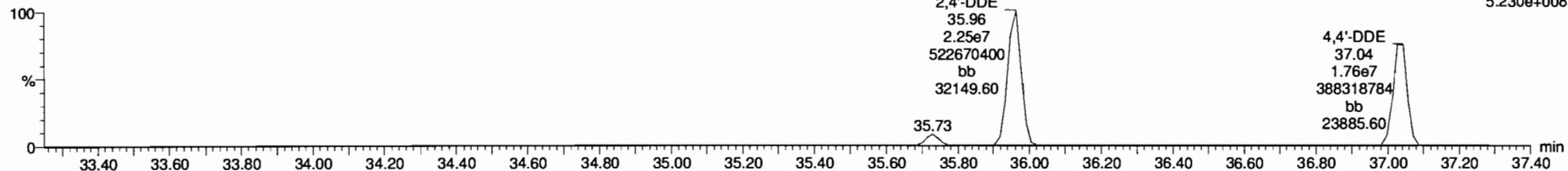
191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

F3:Voltage SIR,EI+
246.0003
7.040e+008



191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

F3:Voltage SIR,EI+
247.9974
5.230e+008



DDE-isotopes

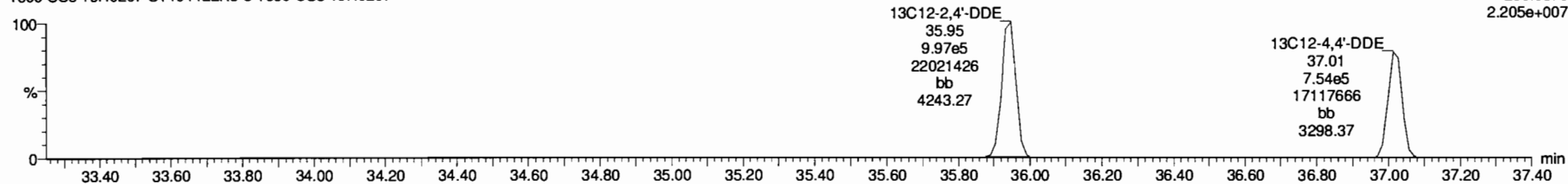
191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

F3:Voltage SIR,EI+
258.0406
3.526e+007



191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

F3:Voltage SIR,EI+
260.0376
2.205e+007



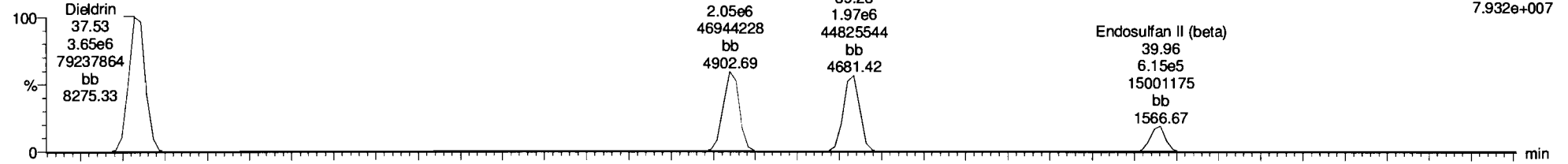
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Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

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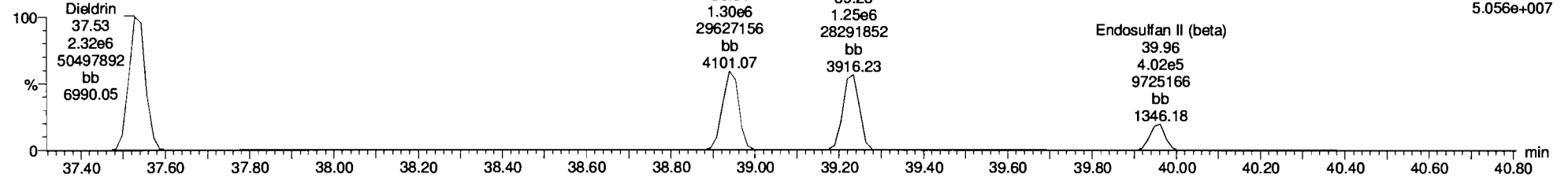
Dieldrin-EII

191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207



F4:Voltage SIR,EI+
262.8569
7.932e+007

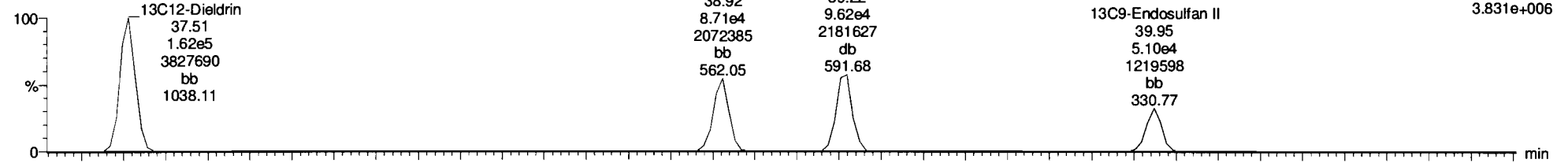
191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207



F4:Voltage SIR,EI+
264.8550
5.056e+007

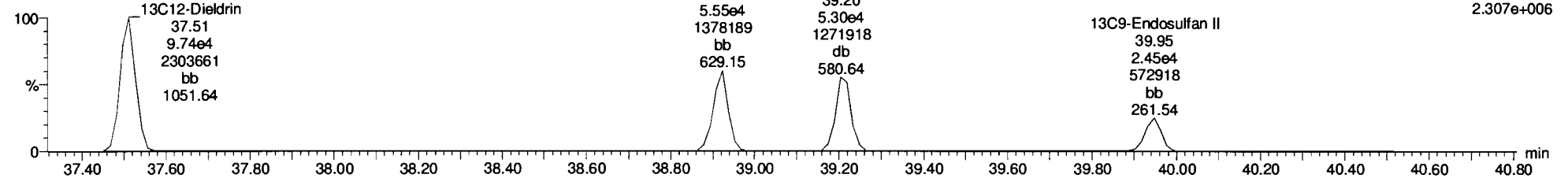
Dieldrin-EII-isotopes

191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207



F4:Voltage SIR,EI+
269.8804
3.831e+006

191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207



F4:Voltage SIR,EI+
271.8775
2.307e+006

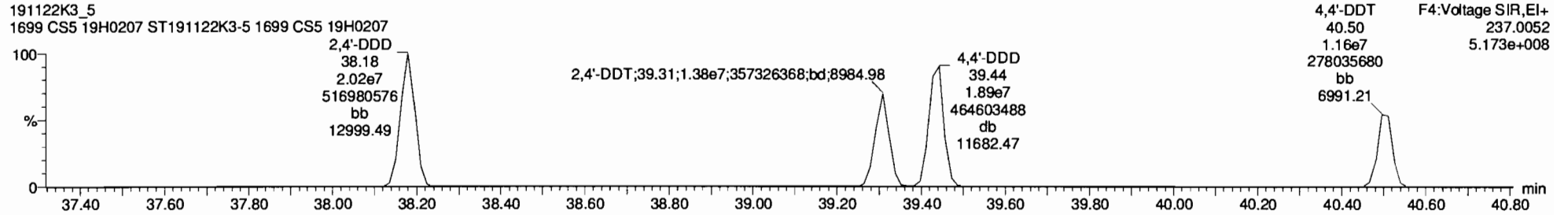
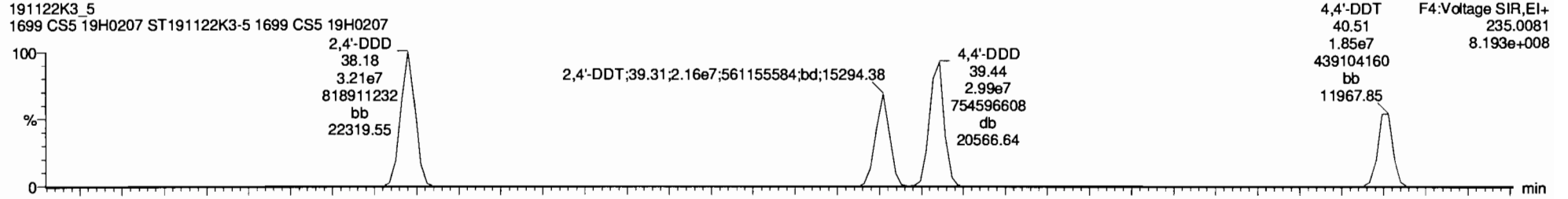
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Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

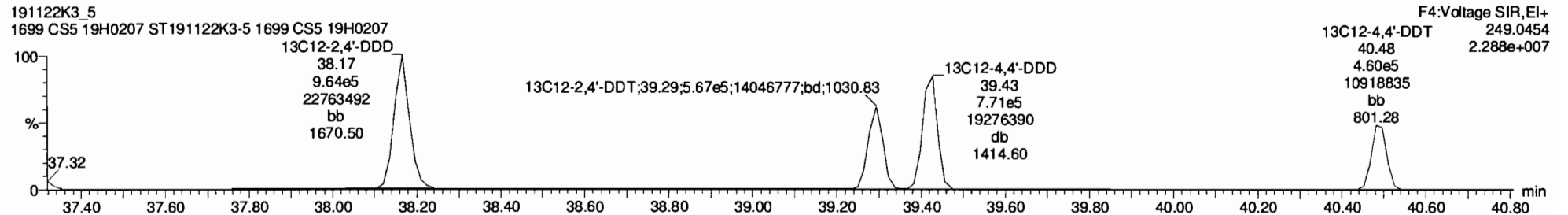
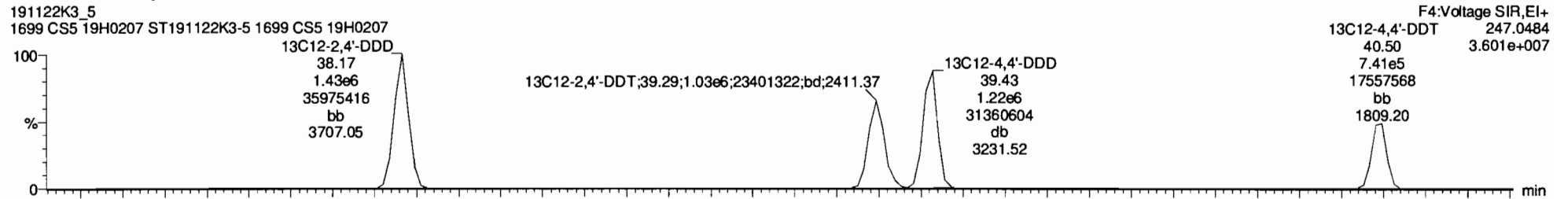
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_5, Date: 22-Nov-2019, Time: 19:17:45, ID: ST191122K3-5 1699 CS5 19H0207, Description: 1699 CS5 19H0207

DDD-DDT



DDD-DDT-isotopes



Dataset: Untitled

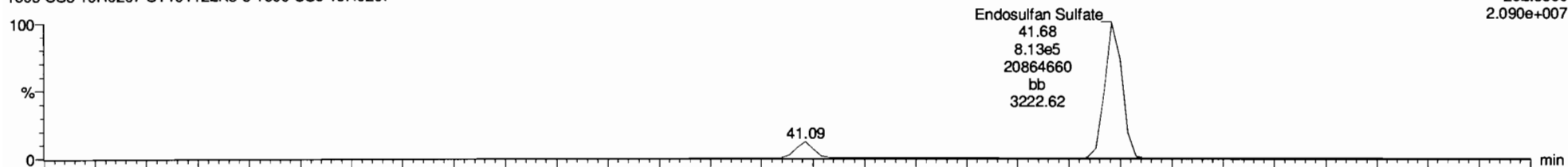
Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_5, Date: 22-Nov-2019, Time: 19:17:45, ID: ST191122K3-5 1699 CS5 19H0207, Description: 1699 CS5 19H0207

Endosulfan Sulfate

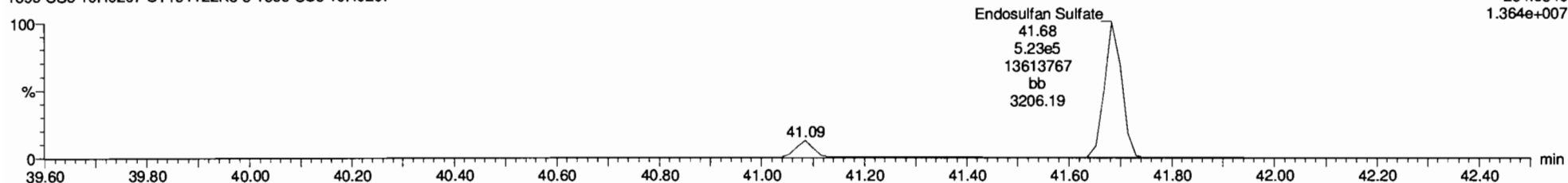
191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

F5:Voltage SIR,EI+
262.8569
2.090e+007



191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

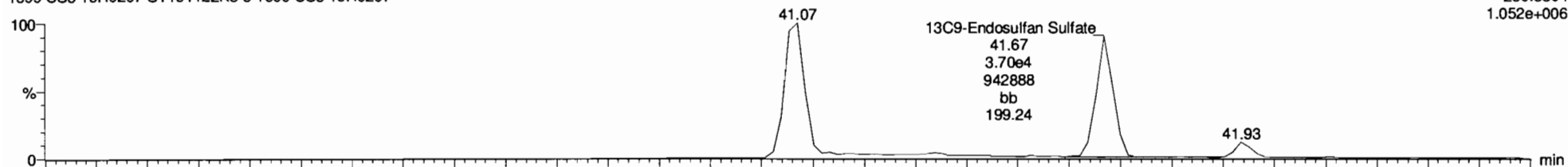
F5:Voltage SIR,EI+
264.8540
1.364e+007



13C9-Endosulfan Sulfate

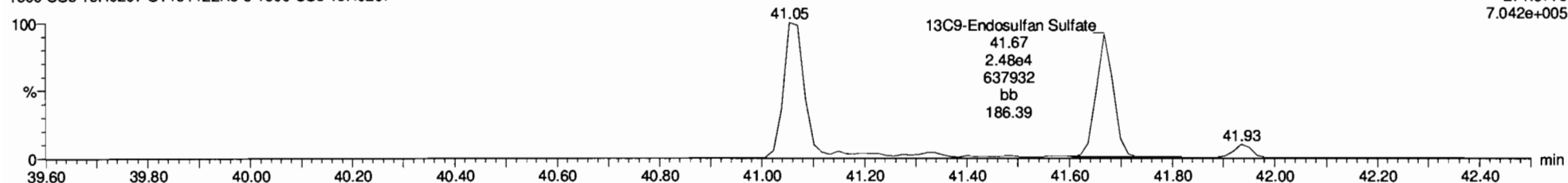
191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

F5:Voltage SIR,EI+
269.8804
1.052e+006



191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

F5:Voltage SIR,EI+
271.8775
7.042e+005



Dataset: Untitled

Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

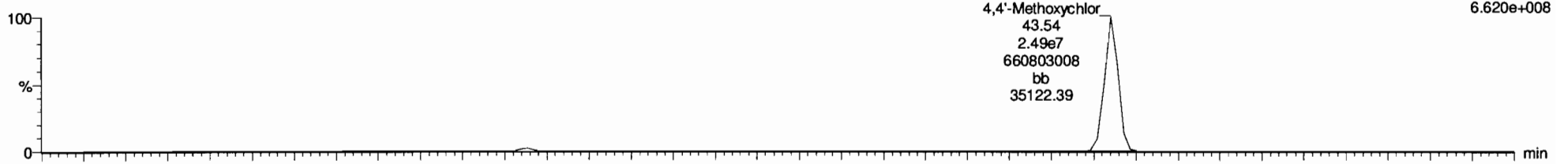
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_5, Date: 22-Nov-2019, Time: 19:17:45, ID: ST191122K3-5 1699 CS5 19H0207, Description: 1699 CS5 19H0207

4,4'-Methoxychlor

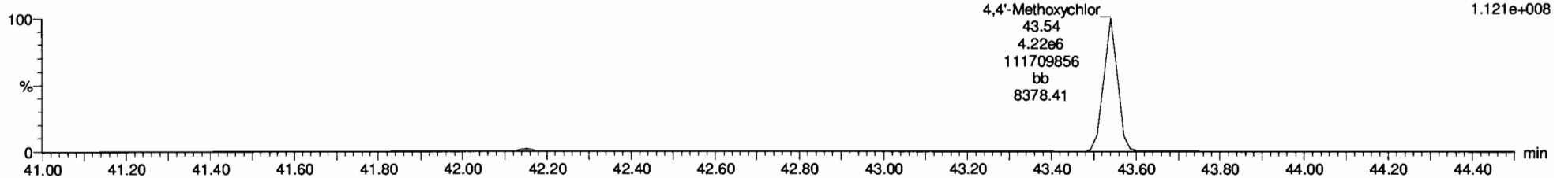
191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

F5:Voltage SIR,El+
227.1072
6.620e+008



191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

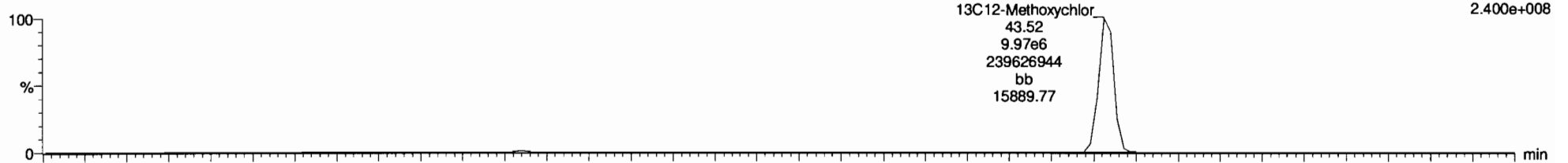
F5:Voltage SIR,El+
228.1106
1.121e+008



13C12-Methoxychlor

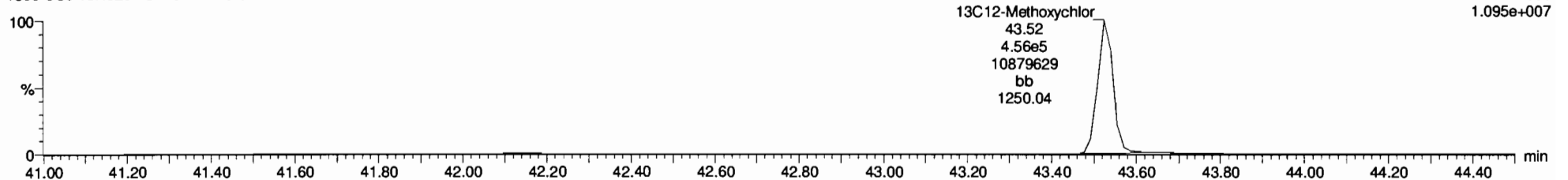
191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

F5:Voltage SIR,El+
239.1475
2.400e+008



191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

F5:Voltage SIR,El+
240.1508
1.095e+007



Dataset: Untitled

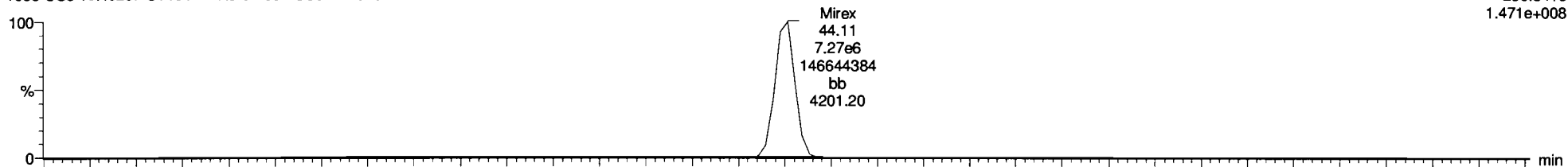
Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_5, Date: 22-Nov-2019, Time: 19:17:45, ID: ST191122K3-5 1699 CS5 19H0207, Description: 1699 CS5 19H0207

Mirex

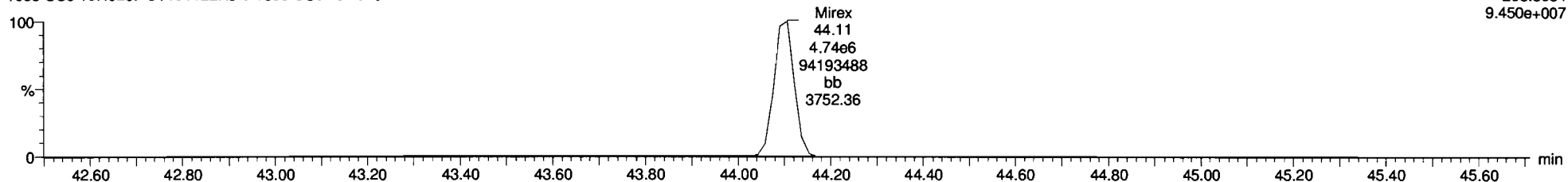
191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

F5:Voltage SIR,EI+
236.8413
1.471e+008



191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

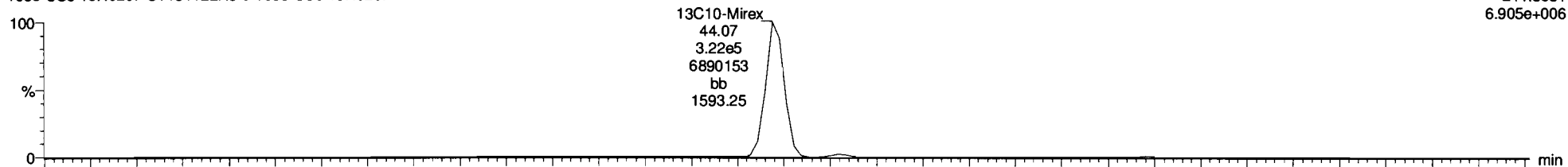
F5:Voltage SIR,EI+
238.8384
9.450e+007



13C10-Mirex

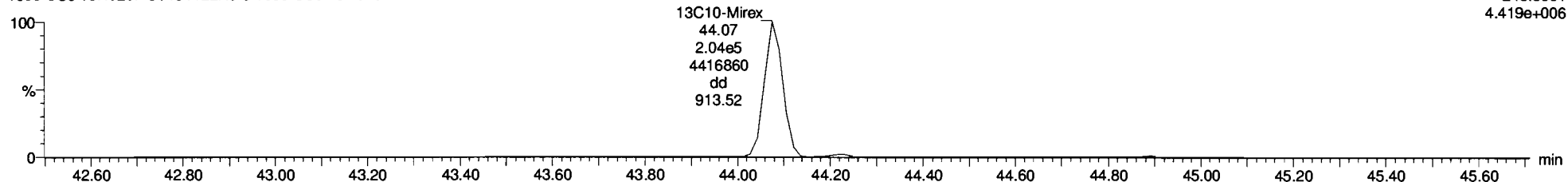
191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

F5:Voltage SIR,EI+
241.8581
6.905e+006



191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

F5:Voltage SIR,EI+
243.8551
4.419e+006



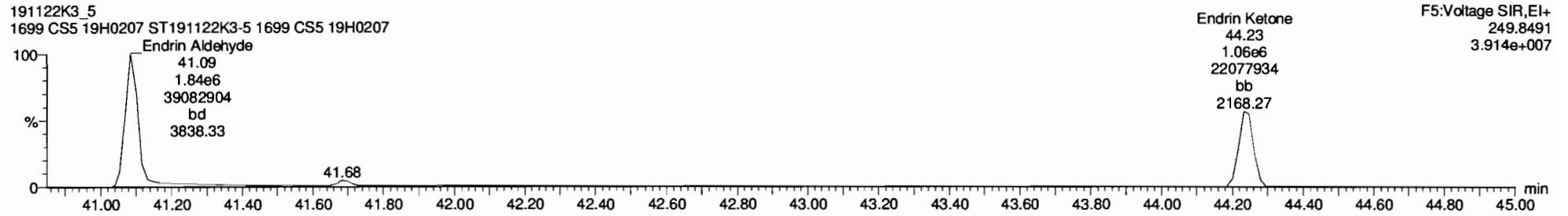
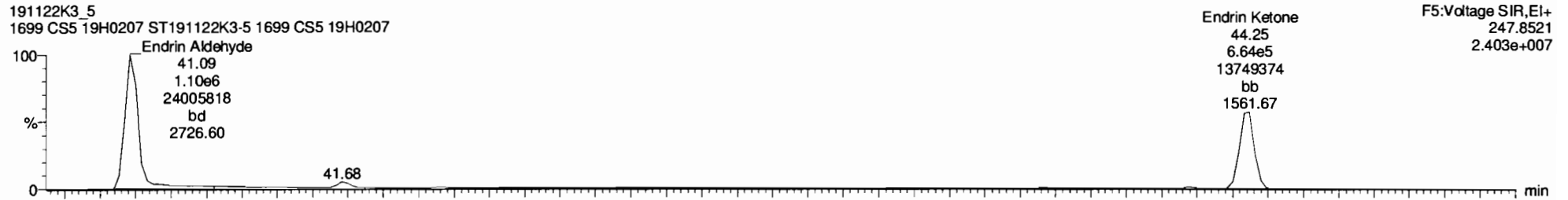
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Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

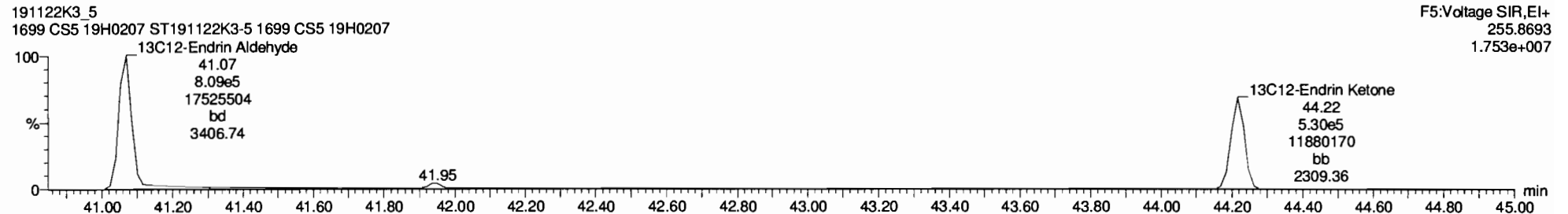
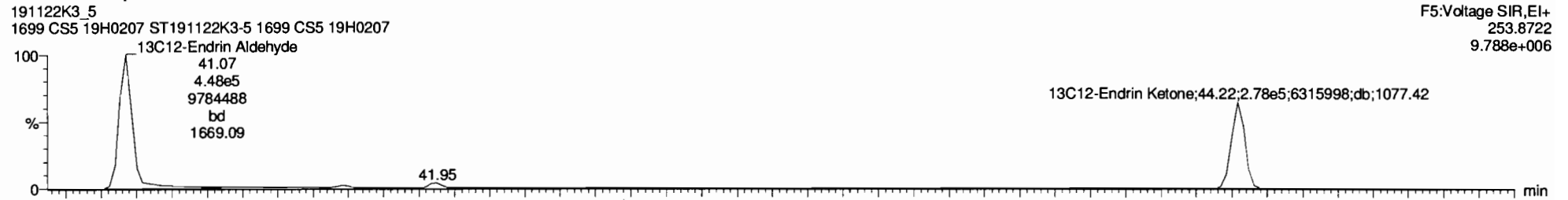
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_5, Date: 22-Nov-2019, Time: 19:17:45, ID: ST191122K3-5 1699 CS5 19H0207, Description: 1699 CS5 19H0207

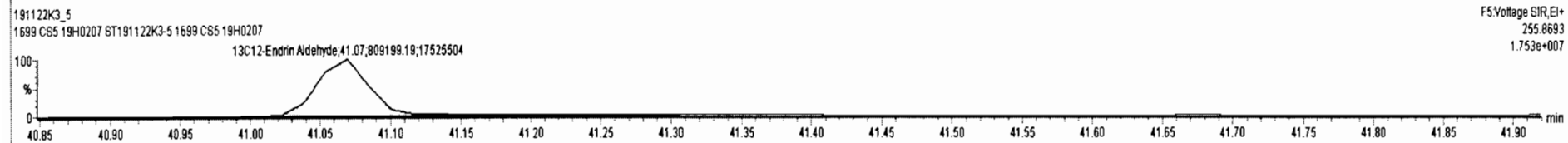
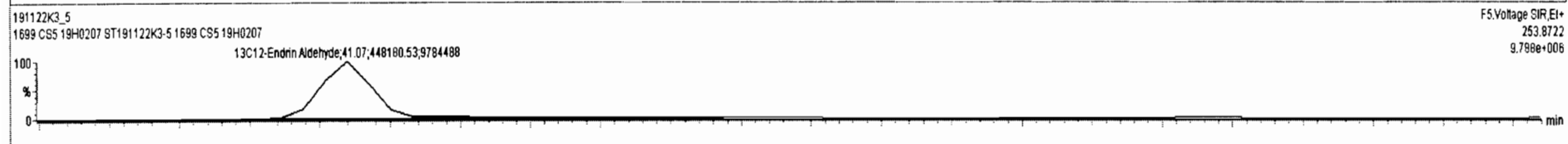
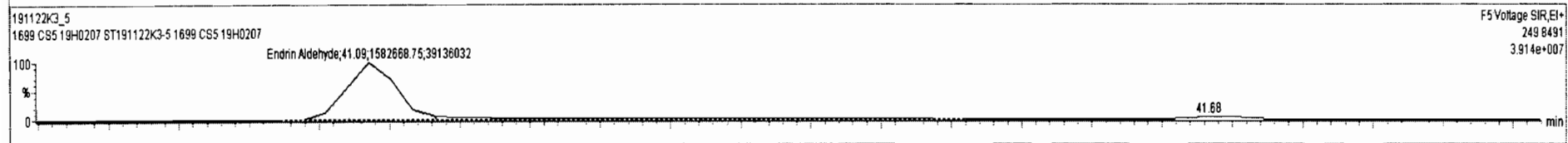
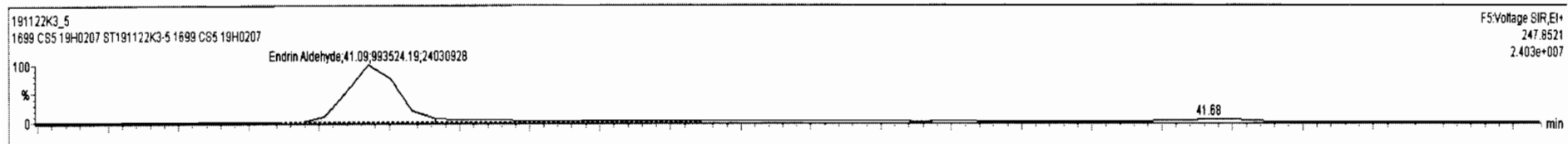
EA-EK



EA-EK-isotopes



SL	F...	Name	RT	RA	yH	Area	IS Area	Std. Conc	%Dev	%RSD	RFI M...	RFI SD
23	23	Endosulfan II (beta)	39.96	1.531	NO	1.0170e6	7.5548e4	1200.000	-47.3	19.9	1.06	0.212
24	24	2,4'-DDD	38.18	1.588	NO	5.2388e7	2.3972e6	1200.000	-0.5	9.76	0.915	0.0893
25	25	2,4'-DDT	39.31	1.570	NO	3.5400e7	1.6004e6	1200.000	0.1	12.6	0.921	0.116
26	26	4,4'-DDD	39.44	1.587	NO	4.8791e7	1.9838e6	1200.000	1.6	10.1	1.00	0.101
27	27	4,4'-DDT	40.51	1.591	NO	3.0146e7	1.2009e6	1200.000	6.0	9.87	0.986	0.0974
28	28	Endosulfan Sulfate	41.68	1.554	NO	1.3359e6	6.1730e4	1200.000	-2.8	14.2	0.928	0.131
29	29	4,4'-Methoxychlor	43.54	5.906	NO	2.9138e7	1.0426e7	1200.000	2.5	10.6	1.14	0.120
30	30	Mirex	44.10	1.534	NO	1.2006e7	5.2549e5	1200.000	2.1	11.1	0.932	0.103
31	31	Endrin Aldehyde	41.09	0.628	NO	2.5762e6	1.2574e5	1200.000	-5.0	12.8	0.898	0.115
32	32	Endrin Ketone	44.25	0.624	NO	1.7287e6	8.0778e5	1200.000	-2.1	11.1	0.911	0.101
33	33	13C4-Hexachlorobutadiene	10.21	1.264	NO	3.2374e6	3.3575e6	500.000	-30.2	17.5	0.138	0.0241
34	34	13C6-Hexachlorobenzene	22.83	1.275	NO	2.2779e6	3.3575e6	50.000	-1.8	2.01	0.691	0.0139
35	35	13C6-Alpha-BHC	23.35	0.793	NO	8.3940e5	3.3575e6	50.000	1.7	2.06	0.246	0.00506
36	36	13C6-Lindane (gamma)	26.63	0.994	YES	7.3129e5	3.3575e6	50.000	15.1	7.50	0.189	0.0142
37	37	13C6-Beta-BHC	28.70	0.803	NO	5.0490e5	3.3575e6	50.000	6.9	4.17	0.141	0.00587
38	38	13C6-Delta-BHC	30.41	0.791	NO	5.9694e5	3.3575e6	50.000	8.1	4.21	0.164	0.00692
39	39	13C10-Heptachlor	28.83	1.315	NO	2.9863e5	3.3575e6	50.000	15.6	9.17	0.0770	0.00705
40	40	13C12-Aldrin	30.96	1.622	NO	4.2417e5	3.3575e6	50.000	3.9	3.19	0.122	0.00388
41	41	13C10-Oxychlorane	33.57	1.638	NO	1.8993e5	3.3575e6	50.000	15.7	8.55	0.0283	0.00242
42	42	13C10-cis-Heptachlor Epo...	34.37	1.673	NO	1.4225e5	3.3575e6	50.000	15.7	8.94	0.0366	0.00327
43	43	13C10-trans-Chlordane (g...	35.28	2.223	YES	1.3287e5	3.3575e6	50.000	35.7	5.12	0.0292	0.00149
44	44	13C10-trans-Nonachlor	35.47	1.920	NO	1.3192e5	3.3575e6	50.000	17.8	9.41	0.0333	0.00314
45	45	13C9-Endosulfan I (alpha)	36.06	1.817	NO	1.1240e5	3.3575e6	50.000	57.8	7.38	0.0212	0.00156



Dataset: Untitled

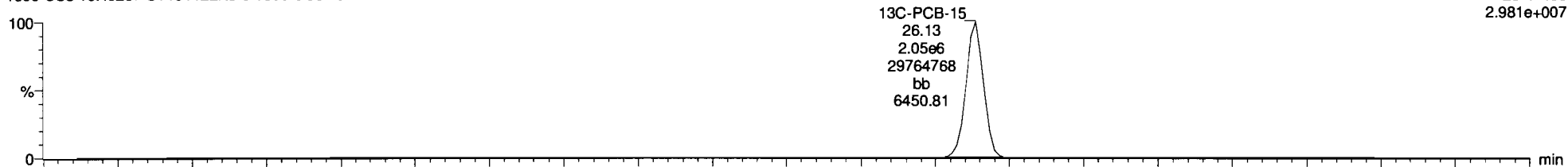
Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_5, Date: 22-Nov-2019, Time: 19:17:45, ID: ST191122K3-5 1699 CS5 19H0207, Description: 1699 CS5 19H0207

13C-PCB-15

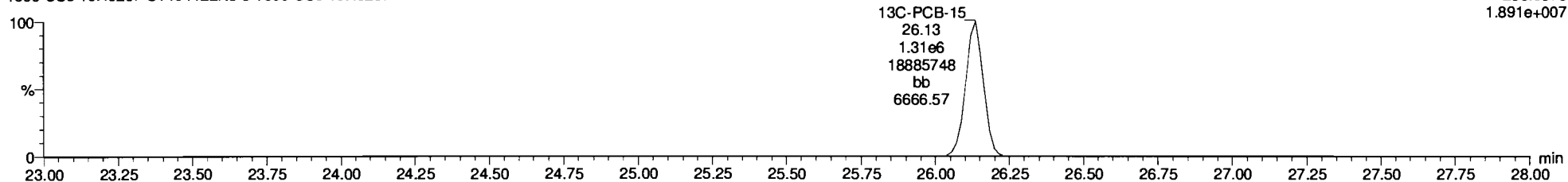
191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

F2:Voltage SIR,EI+
234.0406
2.981e+007



191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

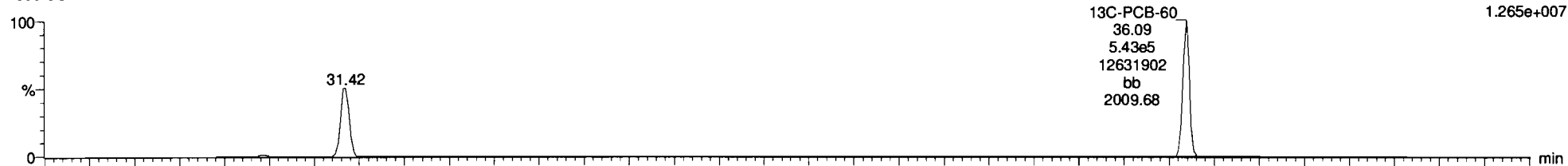
F2:Voltage SIR,EI+
236.0376
1.891e+007



13C-PCB-60

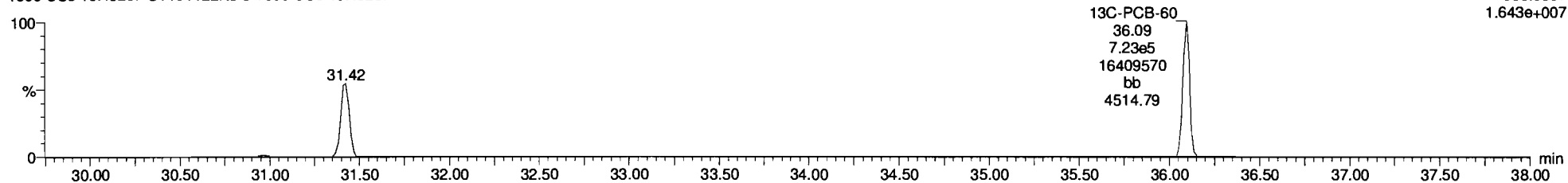
191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

F3:Voltage SIR,EI+
301.9626
1.265e+007



191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

F3:Voltage SIR,EI+
303.9597
1.643e+007



Dataset: Untitled

Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

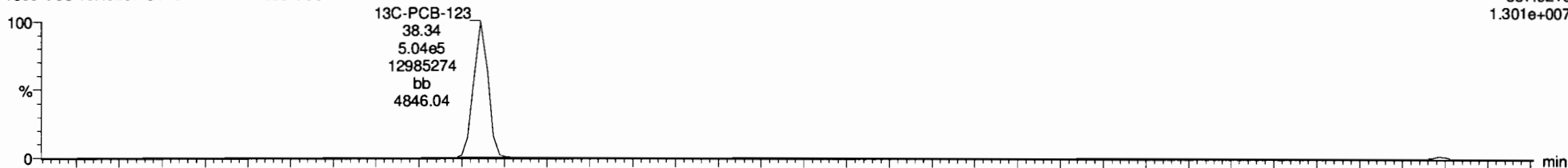
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

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13C-PCB-123

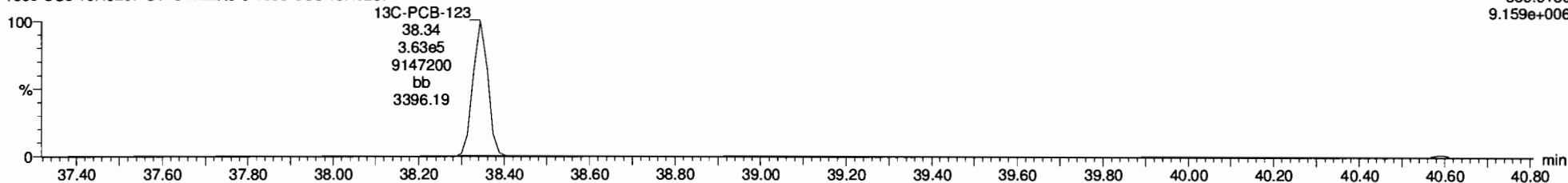
191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

F4:Voltage SIR,EI+
337.9210
1.301e+007



191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

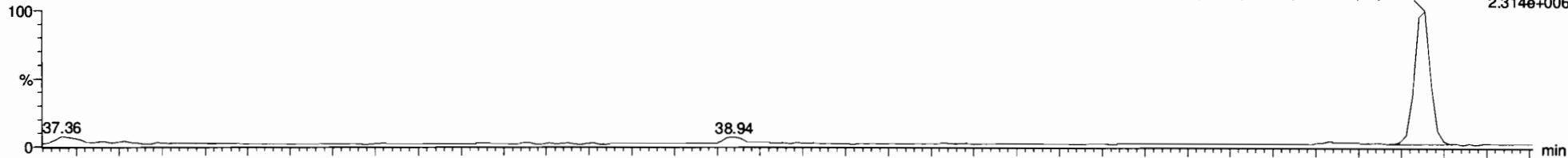
F4:Voltage SIR,EI+
339.9180
9.159e+006



13C-PARLAR 39

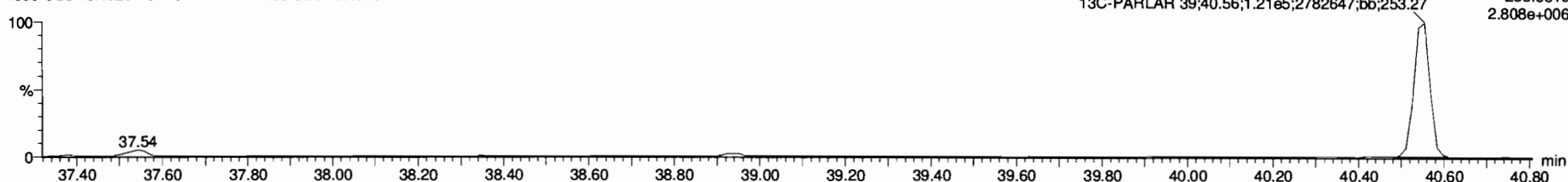
191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

F4:Voltage SIR,EI+
251.9648
2.314e+006
13C-PARLAR 39;40.56;9.93e4;2257082;db;130.03



191122K3_5
1699 CS5 19H0207 ST191122K3-5 1699 CS5 19H0207

F4:Voltage SIR,EI+
253.9619
2.808e+006
13C-PARLAR 39;40.56;1.21e5;2782647;bb;253.27



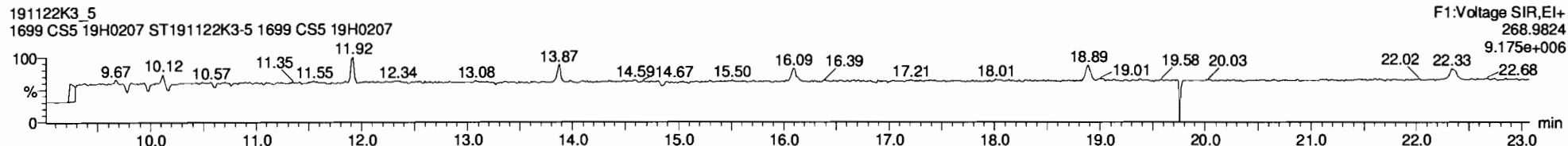
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Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

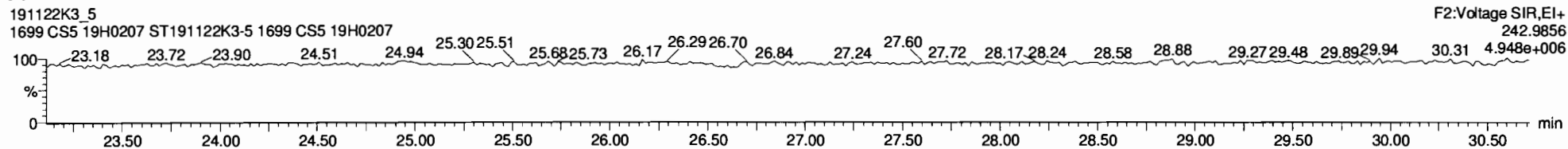
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_5, Date: 22-Nov-2019, Time: 19:17:45, ID: ST191122K3-5 1699 CS5 19H0207, Description: 1699 CS5 19H0207

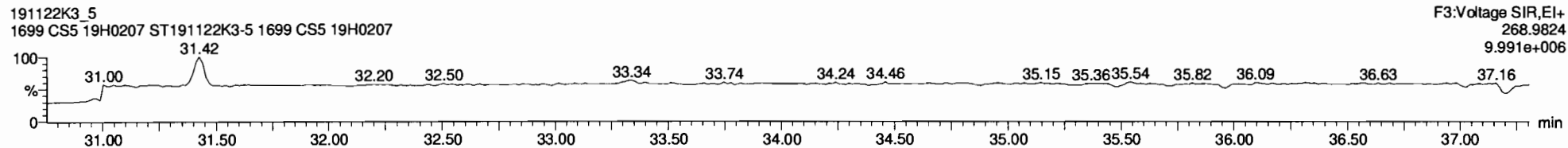
PFK1



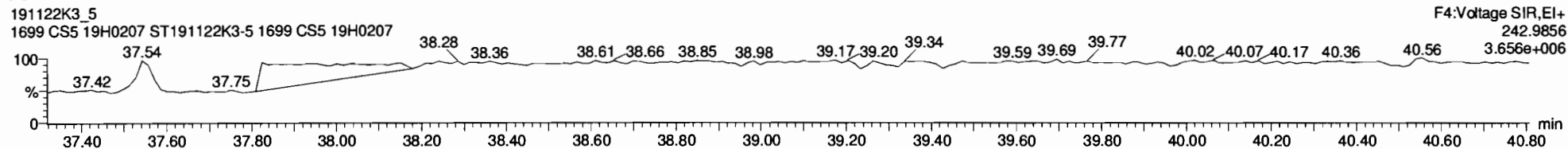
PFK2



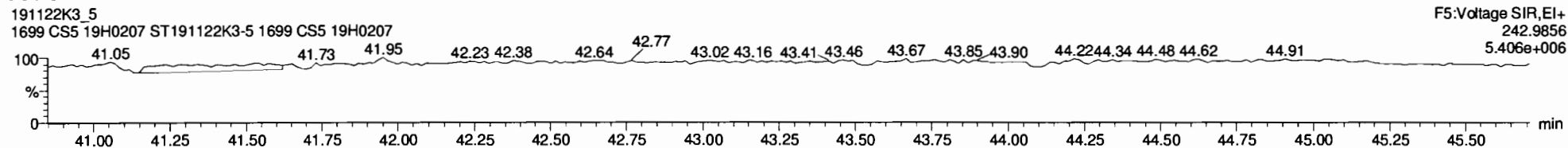
PFK3



PFK4

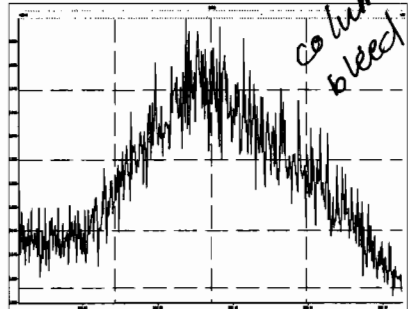


PFK5

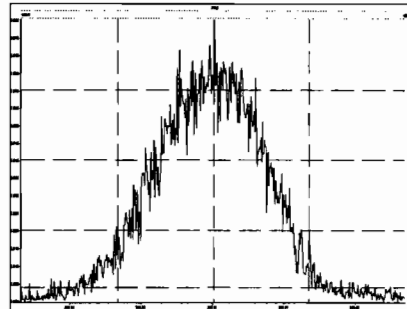


Printed: Saturday, November 23, 2019 08:37:31 Pacific Standard Time

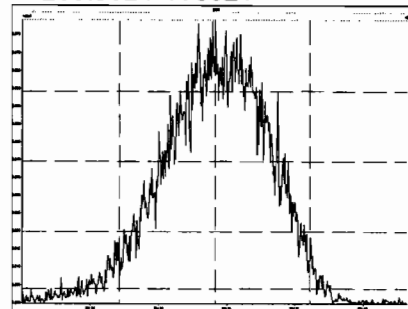
M 254.9856 R 0



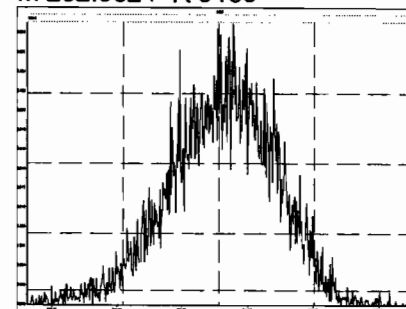
M 268.9824 R 8083



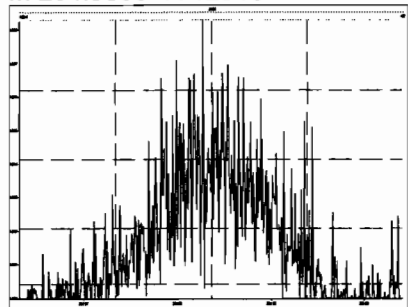
M 280.9824 R 8521



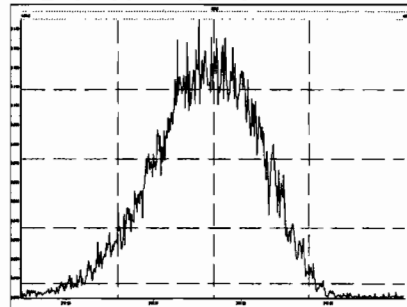
M 292.9824 R 9159



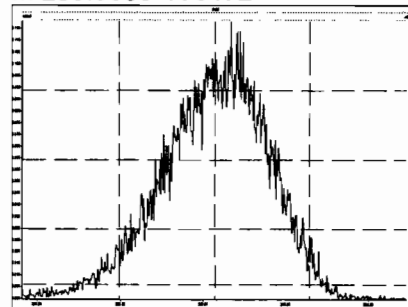
M 204.9888 R 12915



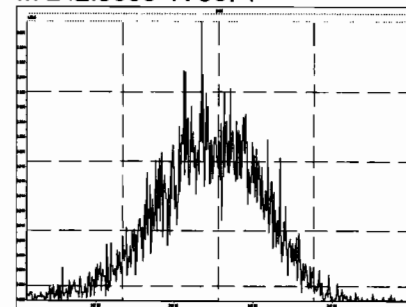
M 218.9856 R 8038



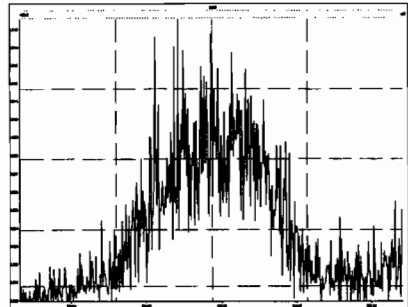
M 230.9856 R 8172



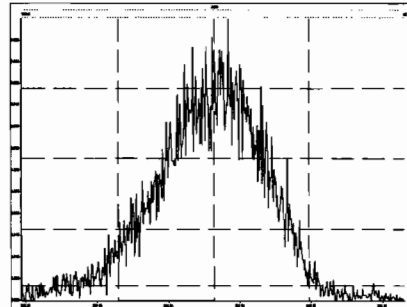
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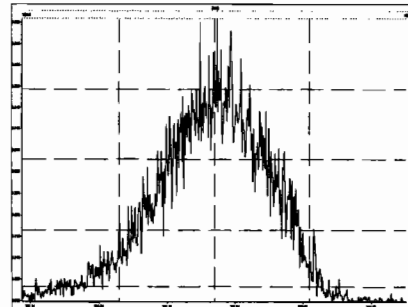
M 254.9856 R 10629



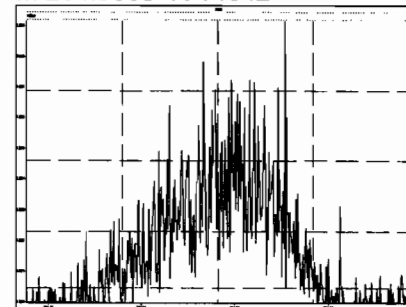
M 268.9824 R 8680



M 280.9824 R 8562

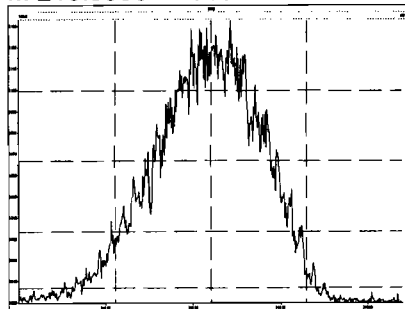


M 204.9888 R 14542

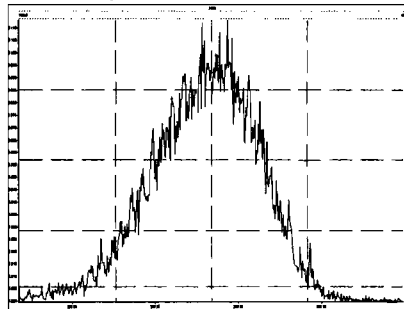


Printed: Saturday, November 23, 2019 08:37:31 Pacific Standard Time

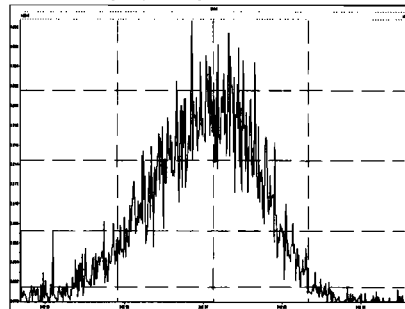
M 218.9856 R 8182



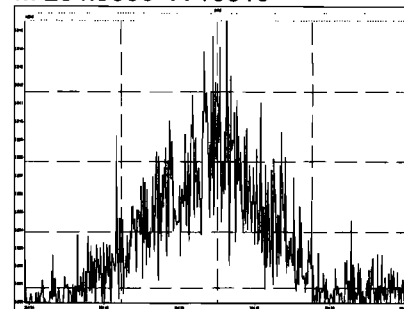
M 230.9856 R 8417



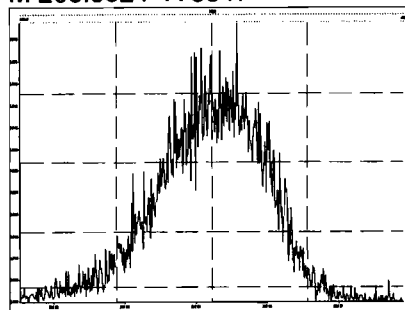
M 242.9856 R 8941



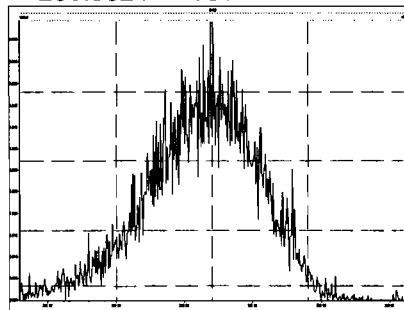
M 254.9856 R 10610



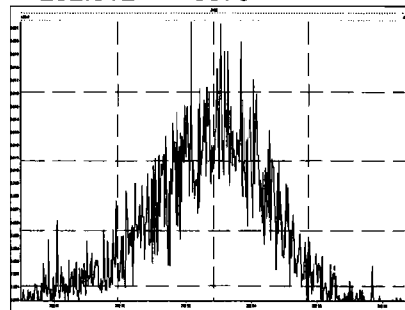
M 268.9824 R 8547



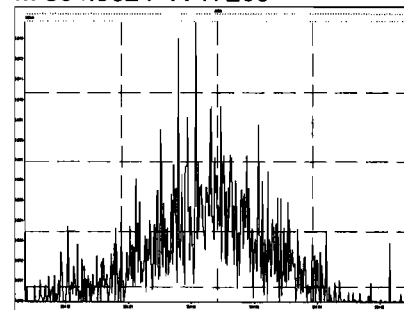
M 280.9824 R 8564



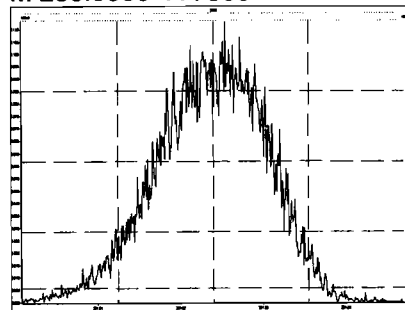
M 292.9824 R 9978



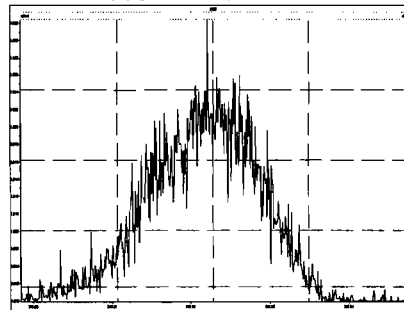
M 304.9824 R 17250



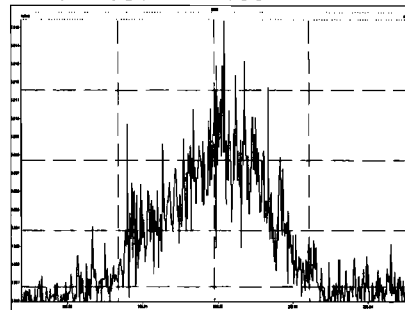
M 230.9856 R 7900



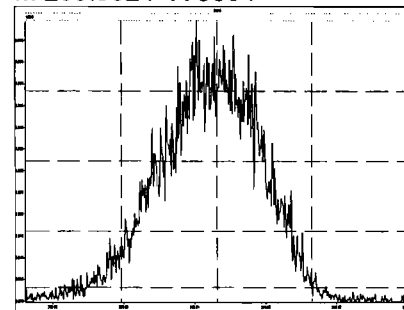
M 242.9856 R 9260



M 254.9856 R 10600

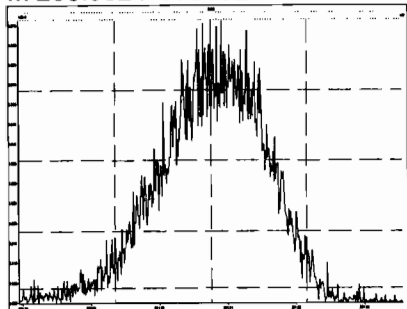


M 268.9824 R 8504

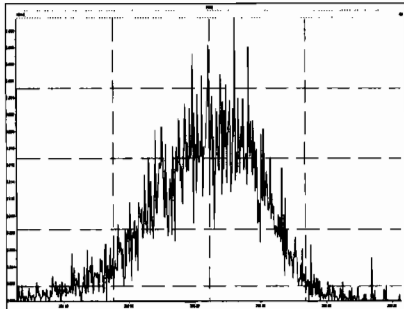


Printed: Saturday, November 23, 2019 08:37:31 Pacific Standard Time

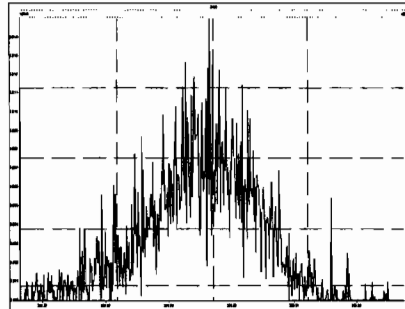
M 280.9824 R 8532



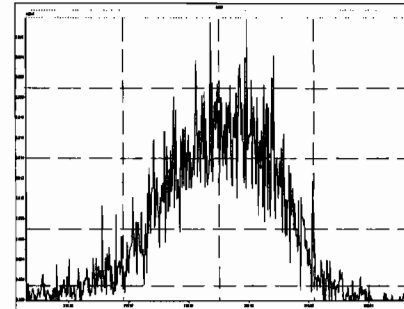
M 292.9824 R 9765



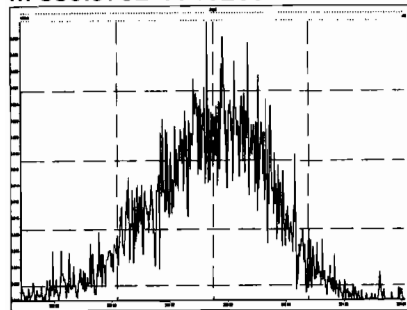
M 304.9824 R 12191



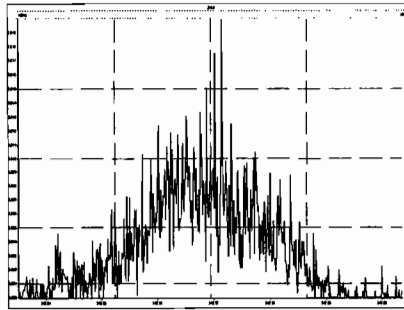
M 318.9792 R 9225



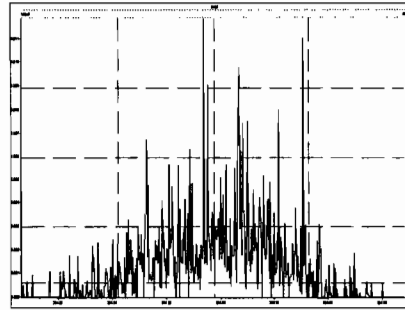
M 330.9792 R 10260



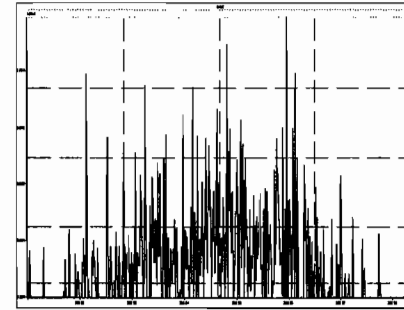
M 342.9792 R 11078



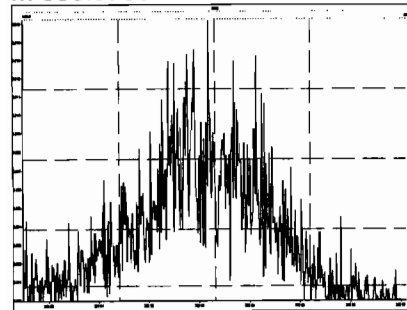
M 354.9792 R 34950



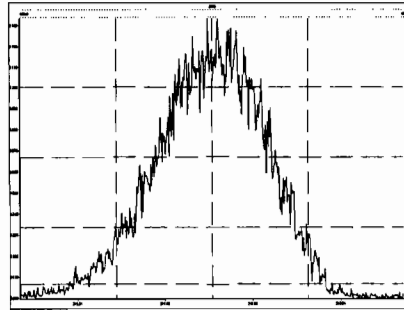
M 366.9792 R 458333



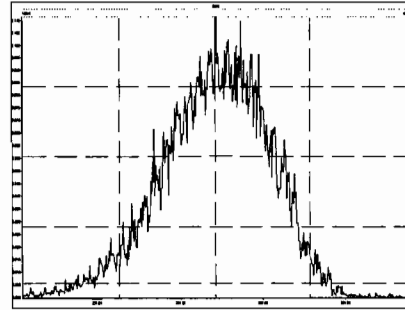
M 380.9760 R 9711



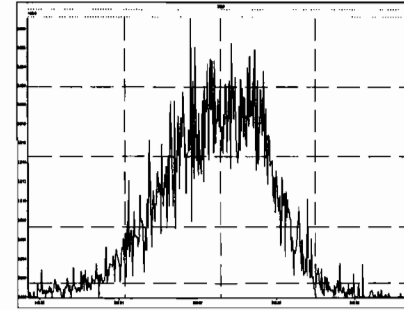
M 218.9856 R 8116



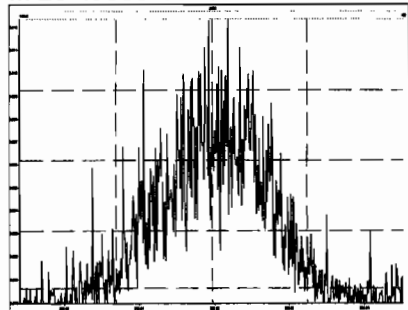
M 230.9856 R 8225



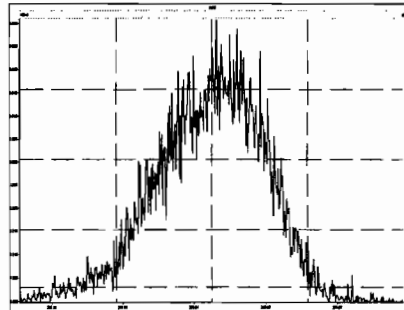
M 242.9856 R 8880



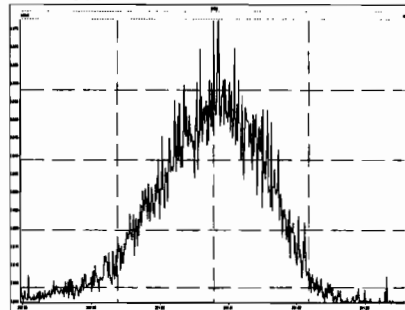
M 254.9856 R 10759



M 268.9824 R 9105



M 280.9824 R 8489



Dataset: U:\VG11.PRO\Results\191122K3\191122K3-8.qld

Last Altered: Saturday, November 23, 2019 12:02:33 Pacific Standard Time
Printed: Saturday, November 23, 2019 14:03:02 Pacific Standard Time

EL 11/23/19

GRB 11/25/19

Method: U:\VG11.PRO\MethDB\1699_GC-break.mdb 22 Nov 2019 15:38:12
Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-11-22-19-LIMITEDB.cdb 23 Nov 2019 11:37:06

Name: 191122K3_8, Date: 22-Nov-2019, Time: 21:45:34, ID: GC191122K3-1 GC BREAK, Description: GC BREAK

#	Name	Resp	RA	n/y	RT
1	1 Endrin Aldehyde	1.66e4	0.59	NO	41.07
2	2 Endrin Ketone	1.37e4	0.62	NO	44.23
3	3 Endrin	3.59e5	1.59	NO	38.92
4	4 4,4'-DDE			NO	
5	5 4,4'-DDD	1.86e5	1.62	NO	39.43
6	6 4,4'-DDT	6.03e6	1.59	NO	40.50
7	7 PFK4				
8	8 PFK5				

$$\left(\frac{EA + EK}{\text{Endrin}} \right) \times 100\% = 8.4\%$$

$$\left(\frac{4,4'\text{-DDD}}{4,4'\text{-DDT}} \right) \times 100\% = 3.1\%$$

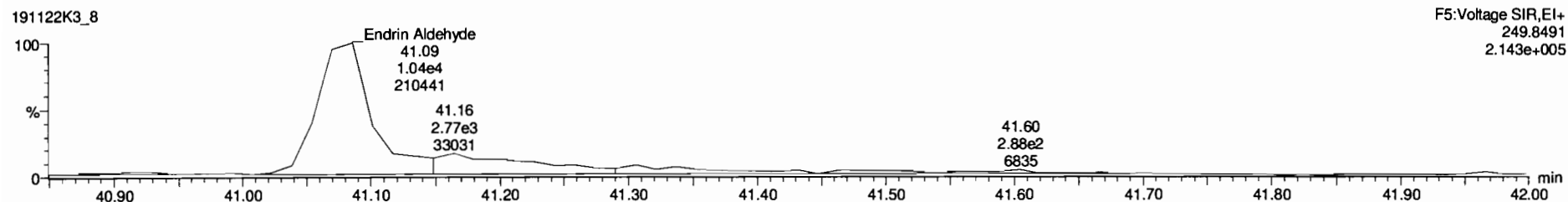
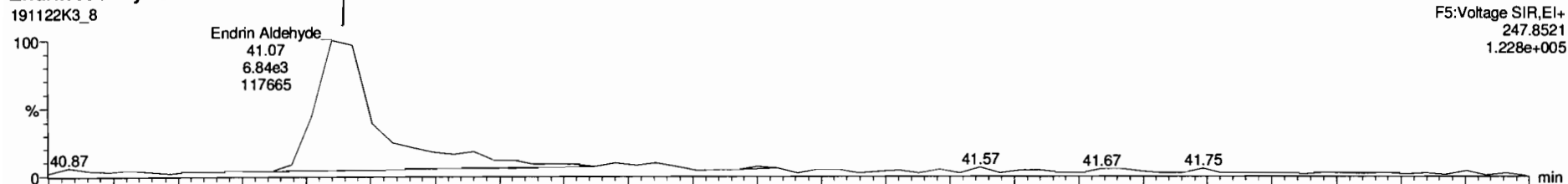
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Last Altered: Saturday, November 23, 2019 13:58:41 Pacific Standard Time
Printed: Saturday, November 23, 2019 13:59:12 Pacific Standard Time

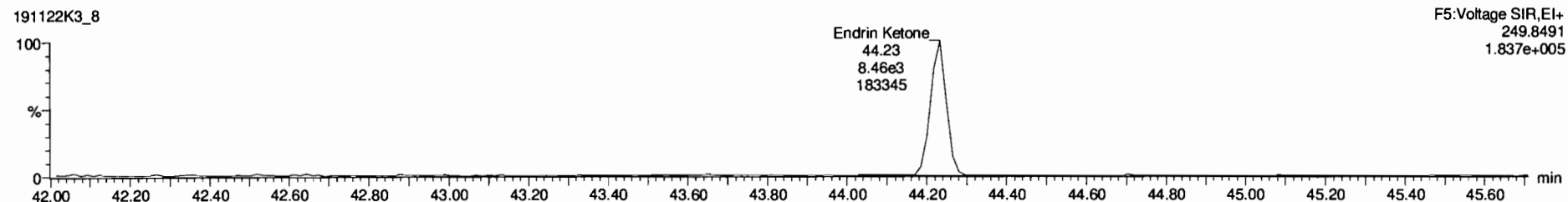
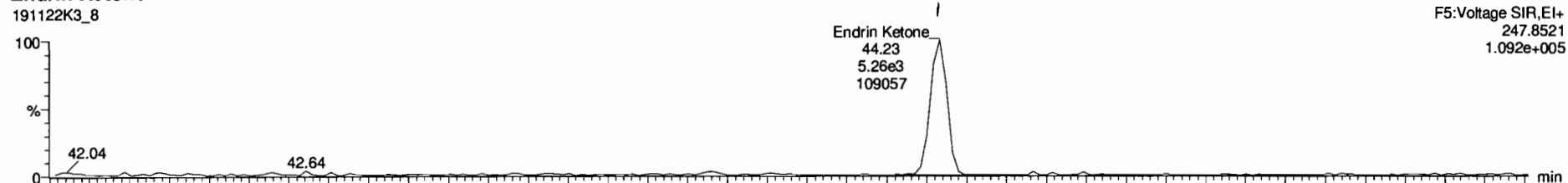
Method: U:\VG11.PRO\MethDB\1699_GC-break.mdb 22 Nov 2019 15:38:12
Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-11-22-19-LIMITEDB.cdb 23 Nov 2019 13:11:31

Name: 191122K3_8, Date: 22-Nov-2019, Time: 21:45:34, ID: GC191122K3-1 GC BREAK, Description: GC BREAK

Endrin Aldehyde



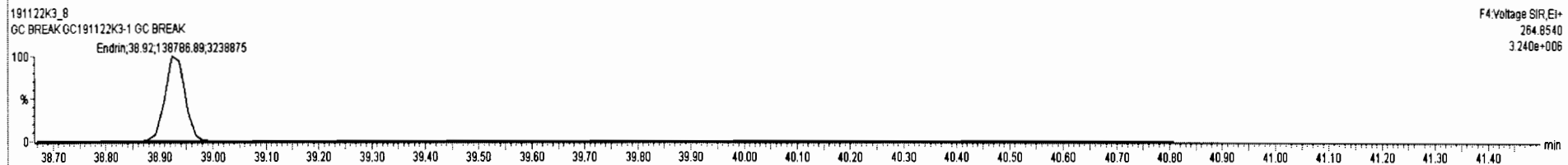
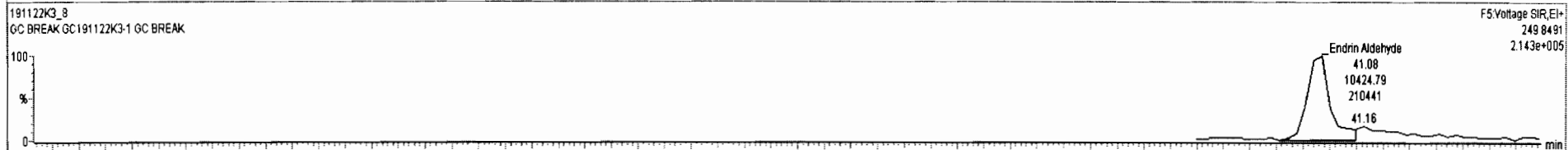
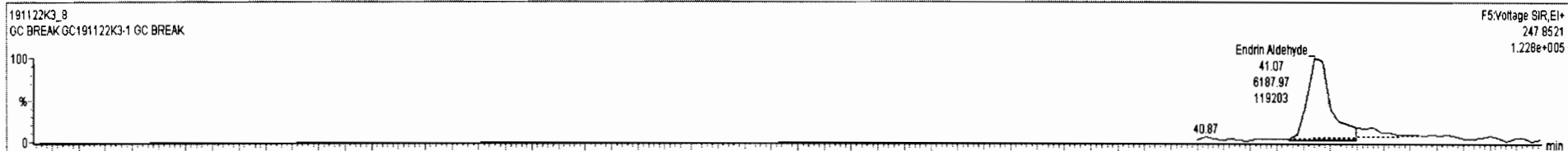
Endrin Ketone





191122K3_8 GC BREAK GC BREAK GC BREAK GC BREAK

#	Name	Retap	RA	nly	RF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1	Endrin Aldehyde	1.86e4	0.59	NO		1.000	41.07	0.000				
2	Endrin Ketone	1.37e4	0.62	NO		1.000	44.23	0.000				
3	Endrin	3.59e5	1.59	NO		1.000	38.92	0.000				
4	4,4'-DDE			NO		1.000						
5	4,4'-DDD	1.86e5	1.62	NO		1.000	39.43	0.000				
6	4,4'-DDT	6.03e6	1.59	NO		1.000	40.50	0.000				
7	PFK4					1.000						
8	PFK5											



Ready

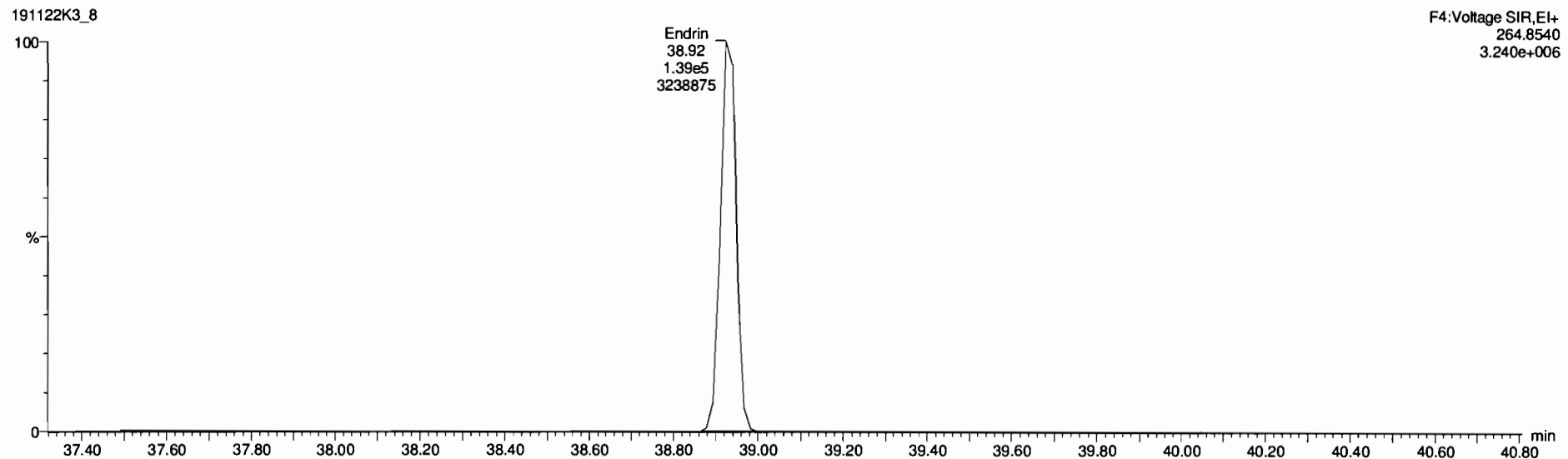
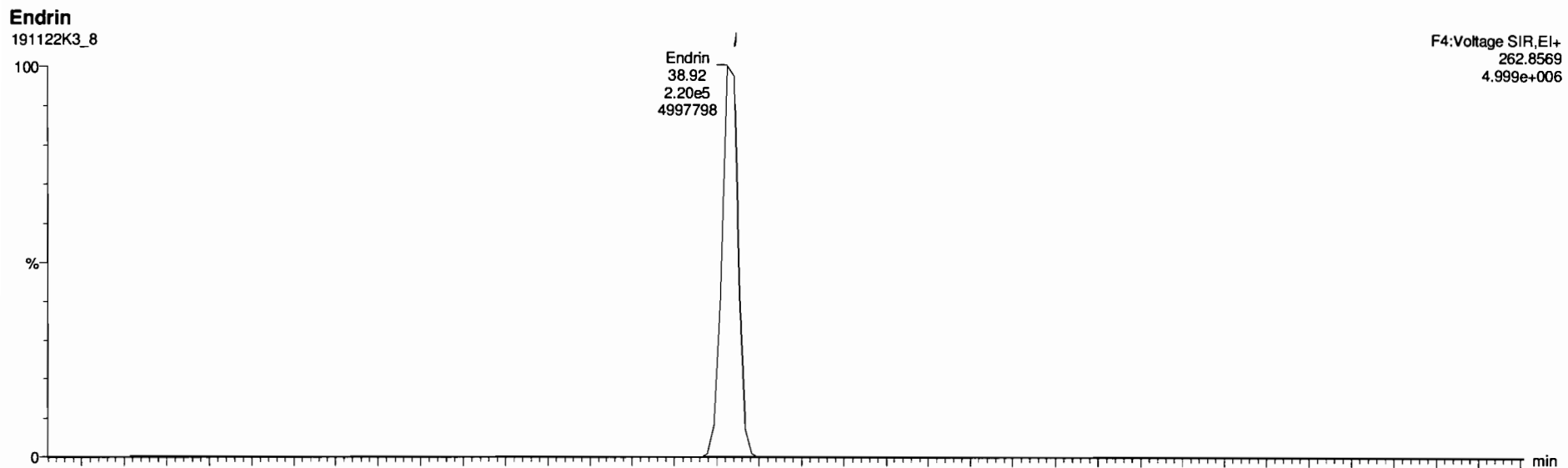
191122K3_8

CAP NUM

Dataset: Untitled

Last Altered: Saturday, November 23, 2019 13:58:41 Pacific Standard Time
Printed: Saturday, November 23, 2019 13:59:12 Pacific Standard Time

Name: 191122K3_8, Date: 22-Nov-2019, Time: 21:45:34, ID: GC191122K3-1 GC BREAK, Description: GC BREAK



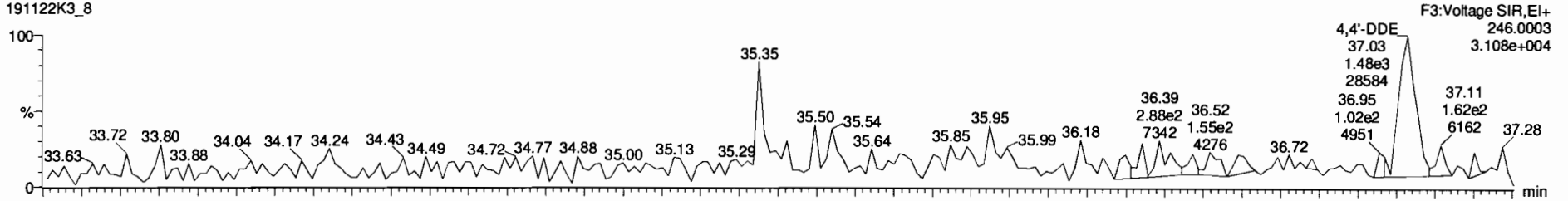
Dataset: Untitled

Last Altered: Saturday, November 23, 2019 13:58:41 Pacific Standard Time
Printed: Saturday, November 23, 2019 13:59:12 Pacific Standard Time

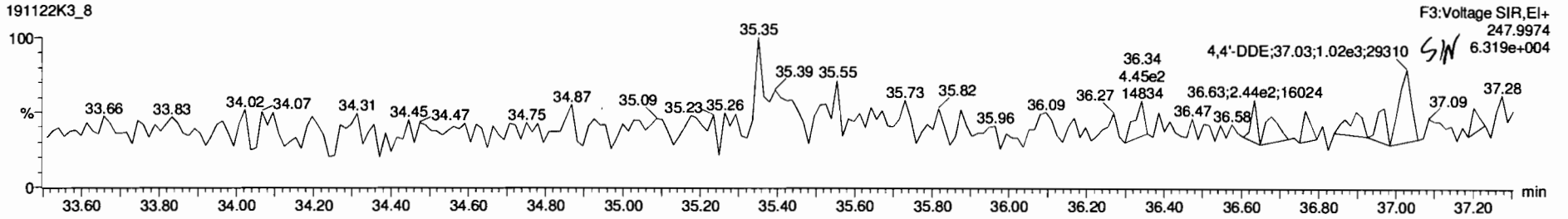
Name: 191122K3_8, Date: 22-Nov-2019, Time: 21:45:34, ID: GC191122K3-1 GC BREAK, Description: GC BREAK

4,4'-DDE

191122K3_8

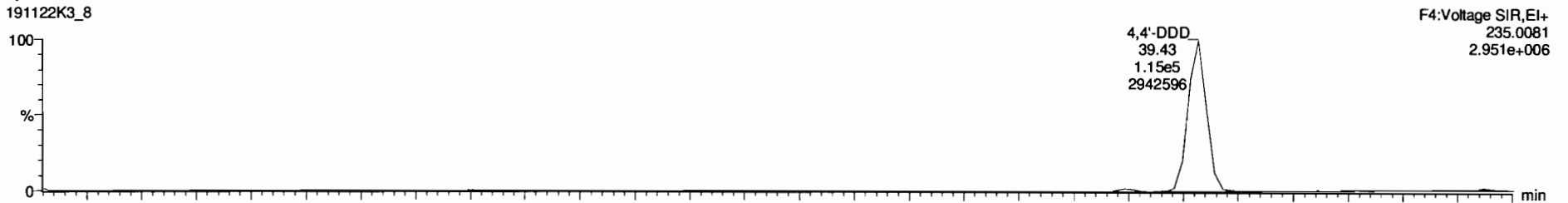


191122K3_8

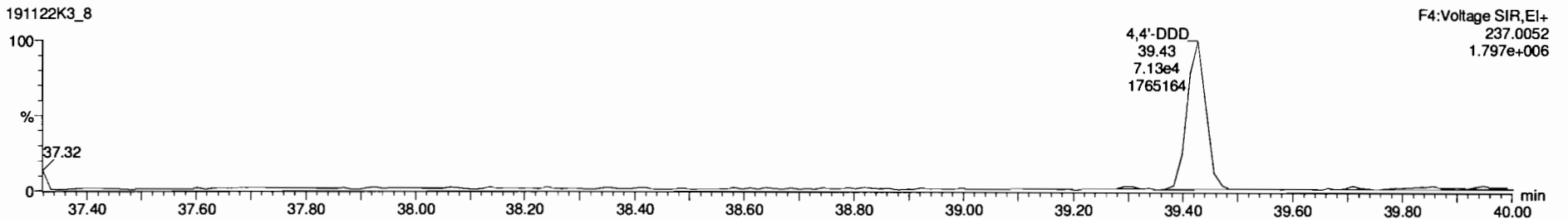


4,4'-DDD

191122K3_8

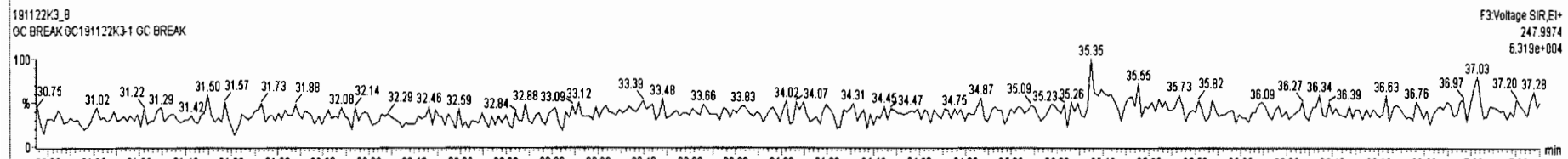
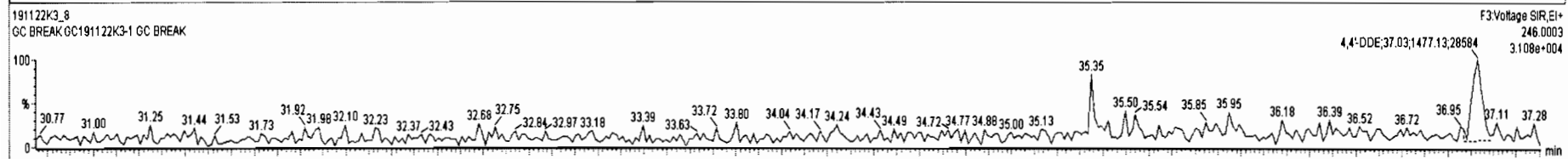
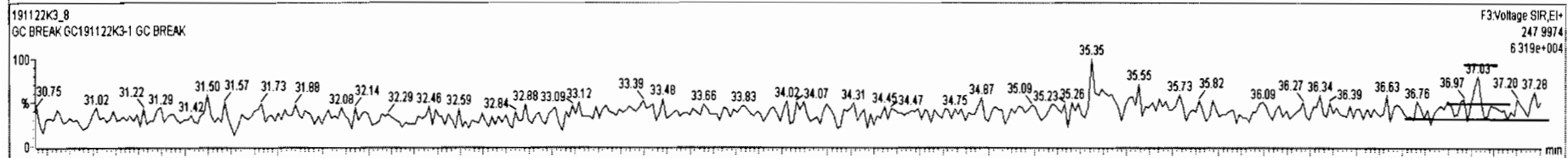
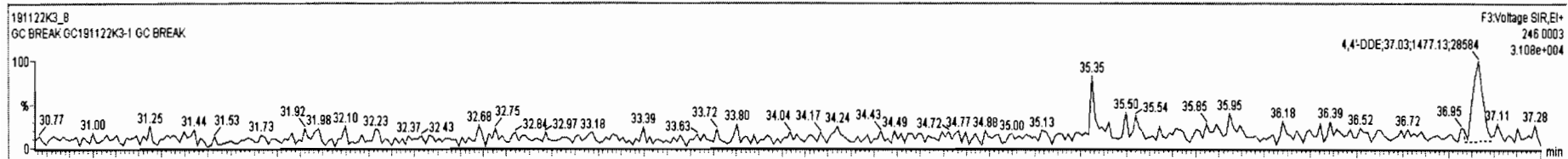


191122K3_8



191122K3_8 GC191122K3-1 GC BREAK - GC BREAK

Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1 Endrin Aldehyde	1.66e4	0.59	NO		1.000	41.07	0.000				
2 Endrin Ketone	1.37e4	0.62	NO		1.000	44.23	0.000				
3 Endrin	3.59e5	1.59	NO		1.000	39.92	0.000				
4 4,4'-DDE			NO		1.000						
5 4,4'-DDD	1.86e5	1.62	NO		1.000	39.43	0.000				
6 4,4'-DDT	6.03e6	1.59	NO		1.000	40.50	0.000				
7 PFK4					1.000						
8 PFK5											



Dataset: Untitled

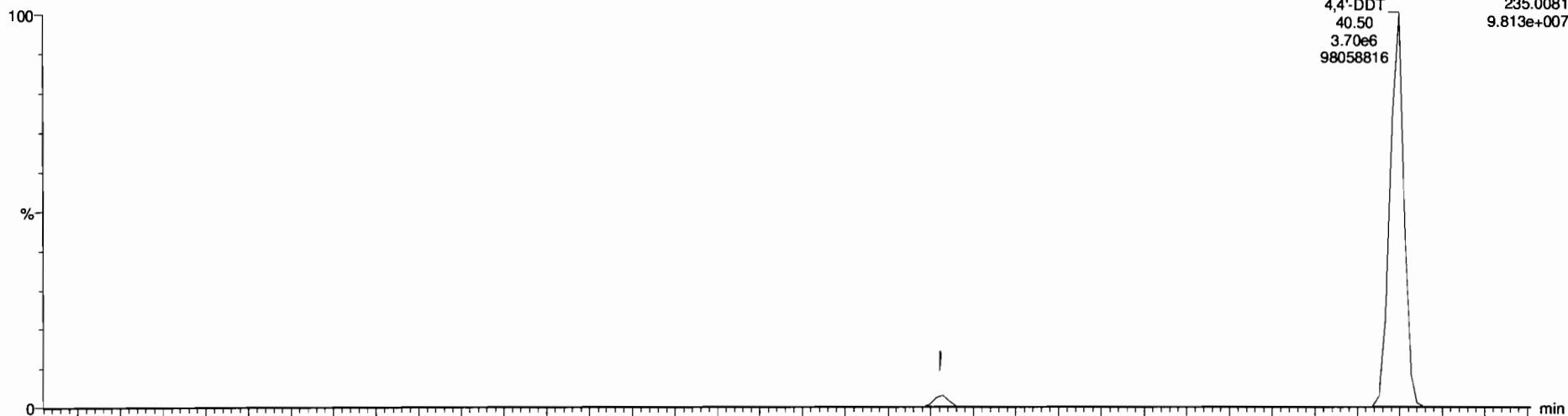
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Printed: Saturday, November 23, 2019 13:59:12 Pacific Standard Time

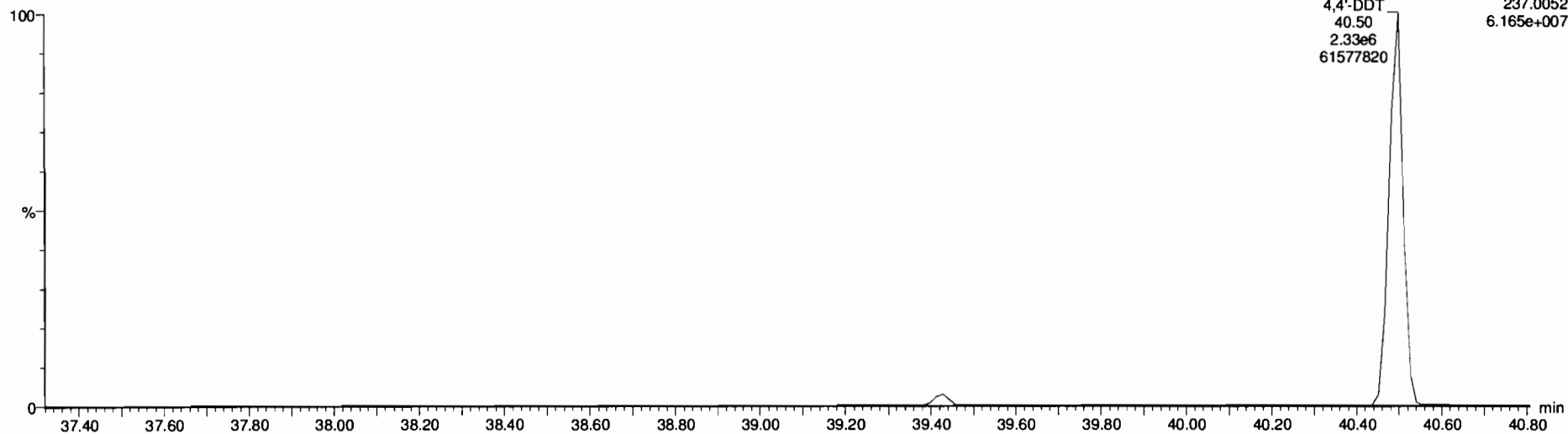
Name: 191122K3_8, Date: 22-Nov-2019, Time: 21:45:34, ID: GC191122K3-1 GC BREAK, Description: GC BREAK

4,4'-DDT

191122K3_8



191122K3_8



Dataset: U:\VG11.PRO\Results\191122K3\191122K3-7.qld

Last Altered: Saturday, November 23, 2019 13:54:18 Pacific Standard Time

Printed: Saturday, November 23, 2019 13:55:25 Pacific Standard Time

EL 11/23/19

GRB 11/25/19

Method: U:\VG11.PRO\MethDB\1699rrt-11-21-19.mdb 21 Nov 2019 11:39:32

Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-11-22-19-LIMITEDB.cdb 23 Nov 2019 13:11:31

Name: 191122K3_7, Date: 22-Nov-2019, Time: 20:56:01, ID: SS191122K3-1 1699 SS 19H0208, Description: 1699 SS 19H0208

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	2 Hexachlorobenzene	2.95e6	1.22	NO	0.874	1.000	22.83	22.83	1.001	1.001	NO	106.2	106.75	0.00353	106.2
2	3 Alpha-BHC	9.01e5	2.11	NO	0.760	1.000	23.40	23.39	1.002	1.001	NO	107.6	108	0.0771	107.6
3	4 Lindane (gamma-BHC)	6.62e5	2.11	NO	0.744	1.000	26.65	26.65	1.001	1.001	NO	109.6	110	0.126	109.6
4	5 Beta-BHC	5.83e5	2.09	NO	0.896	1.000	28.71	28.72	1.000	1.001	NO	106.0	106	0.116	106.0
5	6 Delta-BHC	6.46e5	2.12	NO	0.837	1.000	30.41	30.42	1.001	1.001	NO	107.5	108	0.0980	107.5
6	7 Heptachlor	3.69e5	1.14	NO	0.968	1.000	28.85	28.85	1.001	1.001	NO	106.8	107	0.0922	106.8
7	9 Aldrin	6.01e5	1.59	NO	1.02	1.000	30.99	30.99	1.001	1.001	NO	104.6	105	0.0500	104.6
8	10 Oxychlorane	1.36e5	1.64	NO	0.992	1.000	33.58	33.58	1.001	1.001	NO	108.4	108	0.210	108.4
9	11 cis-Heptachlor Epoxide	1.72e5	1.60	NO	1.00	1.000	34.38	34.39	1.001	1.001	NO	103.3	103	0.149	103.3
10	12 trans-Heptachlor Epoxide	4.72e4	1.60	NO	0.255	1.000	34.87	34.88	1.015	1.015	NO	111.2	111	0.588	111.2
11	13 trans-Chlordane (gamma)	1.46e5	1.62	NO	1.08	1.000	35.28	35.29	1.001	1.001	NO	102.1	102	0.168	102.1
12	14 trans-Nonachlor	1.56e5	1.63	NO	1.00	1.000	35.47	35.48	1.001	1.001	NO	105.1	105	0.150	105.1
13	15 cis-Chlordane	1.62e5	1.58	NO	0.981	1.000	35.96	35.96	1.014	1.014	NO	111.5	111	0.154	111.5
14	16 Endosulfan I (alpha)	1.06e5	1.59	NO	1.11	1.000	36.07	36.06	1.001	1.000	NO	98.71	98.7	0.235	98.71
15	18 2,4'-DDE	3.26e6	1.34	NO	0.854	1.000	35.94	35.95	1.000	1.000	NO	107.6	108	0.0625	107.6
16	19 4,4'-DDE	2.33e6	1.33	NO	0.873	1.000	37.03	37.03	1.000	1.000	NO	104.2	104	0.0757	104.2
17	20 Dieldrin	3.49e5	1.57	NO	0.957	1.000	37.52	37.53	1.000	1.001	NO	105.5	105	0.133	105.5
18	21 Endrin	1.39e5	1.54	NO	0.933	1.000	38.91	38.94	1.000	1.001	NO	100.5	100	0.293	100.5
19	22 cis-Nonachlor	1.76e5	1.51	NO	0.956	1.000	39.22	39.22	1.000	1.000	NO	103.4	103	0.236	103.4
20	23 Endosulfan II (beta)	5.49e4	1.55	NO	1.06	1.000	39.93	39.95	1.000	1.000	NO	93.39	93.4	0.704	93.39
21	24 2,4'-DDD	2.55e6	1.59	NO	0.915	1.000	38.15	38.17	1.000	1.000	NO	103.7	104	0.130	103.7
22	25 2,4'-DDT	1.61e6	1.61	NO	0.921	1.000	39.30	39.29	1.000	1.000	NO	109.9	110	0.226	109.9
23	26 4,4'-DDD	2.23e6	1.63	NO	1.00	1.000	39.43	39.43	1.000	1.000	NO	102.8	103	0.140	102.8
24	27 4,4'-DDT	1.32e6	1.59	NO	0.986	1.000	40.50	40.50	1.000	1.000	NO	104.6	105	0.236	104.6
25	28 Endosulfan Sulfate	7.98e4	1.63	NO	0.928	1.000	41.65	41.68	1.000	1.001	NO	107.4	107	0.610	107.4
26	29 4,4'-Methoxychlor	1.41e6	5.90	NO	1.14	1.000	43.53	43.54	1.000	1.000	NO	100.5	100	0.0952	100.5
27	30 Mirex	7.55e5	1.54	NO	0.932	1.000	44.10	44.09	1.000	1.000	NO	103.2	103	0.197	103.2
28	31 Endrin Aldehyde	1.70e5	0.63	NO	0.887	1.000	41.07	41.09	1.000	1.001	NO	108.2	108	0.475	108.2
29	32 Endrin Ketone	1.19e5	0.61	NO	0.911	1.000	44.22	44.23	1.000	1.000	NO	118.3	118	0.695	118.3
30	34 13C6-Hexachlorobenzene	1.59e6	1.28	NO	0.691	1.000	22.82	22.81	0.874	0.873	NO	49.35	98.7	0.00400	
31	35 13C6-Alpha-BHC	5.51e5	0.78	NO	0.246	1.000	23.37	23.35	0.895	0.894	NO	48.04	96.1	0.129	

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Name: 191122K3_7, Date: 22-Nov-2019, Time: 20:56:01, ID: SS191122K3-1 1699 SS 19H0208, Description: 1699 SS 19H0208

	#_Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	36 13C6-Lindane (gamma)	4.05e5	0.80	NO	0.189	1.000	26.63	26.62	1.020	1.019	NO	45.97	91.9	0.167	
33	37 13C6-Beta-BHC	3.07e5	0.77	NO	0.141	1.000	28.68	28.70	1.098	1.099	NO	46.78	93.6	0.225	
34	38 13C6-Delta-BHC	3.59e5	0.78	NO	0.164	1.000	30.38	30.39	1.163	1.164	NO	46.80	93.6	0.192	
35	39 13C10-Heptachlor	1.79e5	1.34	NO	0.0770	1.000	28.81	28.82	1.103	1.103	NO	49.78	99.6	0.0775	
36	40 13C12-Aldrin	2.81e5	1.61	NO	0.122	1.000	30.93	30.96	1.184	1.185	NO	49.48	99.0	0.0933	
37	41 13C10-Oxychlorane	6.33e4	1.65	NO	0.0283	1.000	33.53	33.56	1.284	1.285	NO	47.99	96.0	0.401	
38	42 13C10-cis-Heptachlor Ep...	8.32e4	1.63	NO	0.0366	1.000	34.32	34.36	1.314	1.315	NO	48.72	97.4	0.310	
39	43 13C10-trans-Chlordane (...)	6.61e4	1.75	NO	0.0292	1.000	35.23	35.26	1.349	1.350	NO	48.61	97.2	0.389	
40	44 13C10-trans-Nonachlor	7.39e4	1.62	NO	0.0333	1.000	35.42	35.45	1.356	1.357	NO	47.50	95.0	0.340	
41	45 13C9-Endosulfan I (alpha)	4.87e4	1.58	NO	0.0212	1.000	36.00	36.05	1.378	1.380	NO	49.20	98.4	0.535	
42	46 13C12-2,4'-DDE	1.78e6	1.59	NO	0.763	1.000	35.94	35.93	0.996	0.996	NO	49.88	99.8	0.0953	
43	47 13C12-4,4'-DDE	1.28e6	1.56	NO	0.552	1.000	37.00	37.01	1.026	1.026	NO	49.74	99.5	0.132	
44	48 13C12-Dieldrin	1.73e5	1.61	NO	0.0749	1.000	37.50	37.50	1.039	1.039	NO	49.49	99.0	0.187	
45	49 13C12-Endrin	7.44e4	1.58	NO	0.0351	1.000	38.90	38.91	1.078	1.078	NO	45.44	90.9	0.399	
46	50 13C10-cis-Nonachlor	8.93e4	1.61	NO	0.0389	1.000	39.19	39.20	1.086	1.087	NO	49.15	98.3	0.360	
47	51 13C9-Endosulfan II	2.76e4	1.65	NO	0.0112	1.000	39.91	39.93	1.106	1.107	NO	52.88	106	1.25	
48	52 13C12-2,4'-DDD	1.34e6	1.58	NO	0.588	1.000	38.10	38.15	1.459	1.461	NO	48.91	97.8	0.0990	
49	53 13C12-2,4'-DDT	7.97e5	1.58	NO	0.370	1.000	39.23	39.28	1.502	1.504	NO	46.14	92.3	0.157	
50	54 13C12-4,4'-DDD	1.08e6	1.58	NO	0.473	1.000	39.35	39.41	1.507	1.509	NO	48.87	97.7	0.123	
51	55 13C12-4,4'-DDT	6.41e5	1.57	NO	0.280	1.000	40.41	40.48	1.547	1.550	NO	49.00	98.0	0.208	
52	56 13C9-Endosulfan Sulfate	4.00e4	1.68	NO	0.0173	1.000	41.64	41.65	1.154	1.154	NO	49.61	99.2	1.26	
53	57 13C12-Methoxychlor	6.19e6	20.65	NO	0.257	1.000	43.51	43.52	1.206	1.206	NO	517.1	103	0.300	
54	58 13C10-Mirex	3.92e5	1.59	NO	0.164	1.000	44.06	44.07	1.221	1.222	NO	51.25	102	0.198	
55	59 13C12-Endrin Aldehyde	8.89e5	0.49	NO	0.0345	1.000	41.04	41.05	1.138	1.138	NO	552.1	110	1.25	
56	60 13C12-Endrin Ketone	5.51e5	0.53	NO	0.0222	1.000	44.20	44.22	1.225	1.226	NO	531.7	106	1.94	
57	62 13C-PCB-15	2.33e6	1.57	NO	1.00	1.000	26.18	26.12	1.000	1.000	NO	50.00	100	0.0230	

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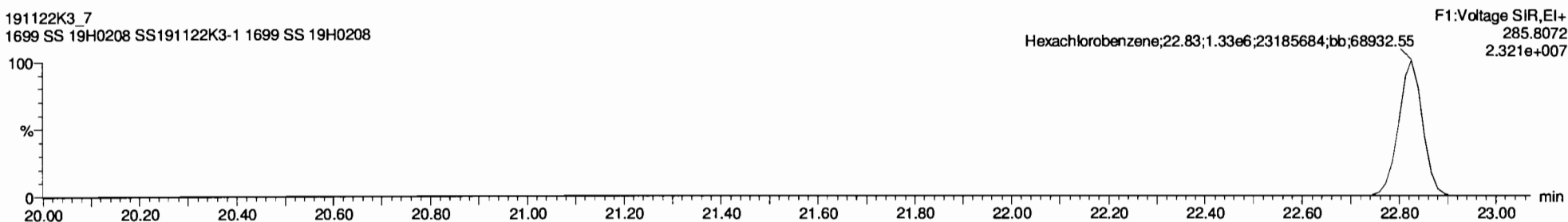
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Hexachlorobenzene

191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

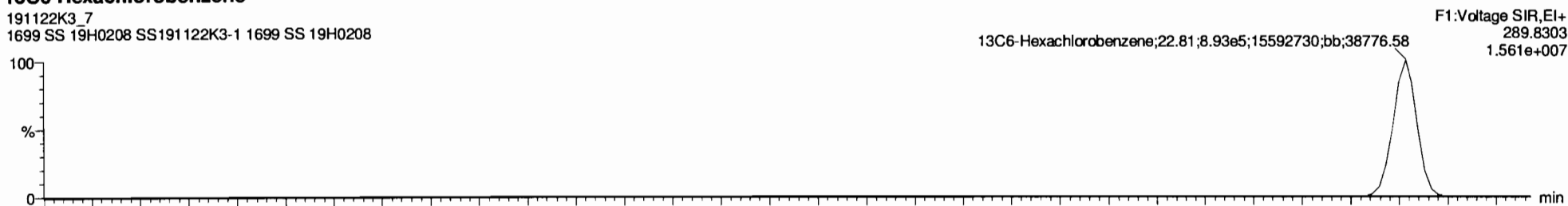


191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

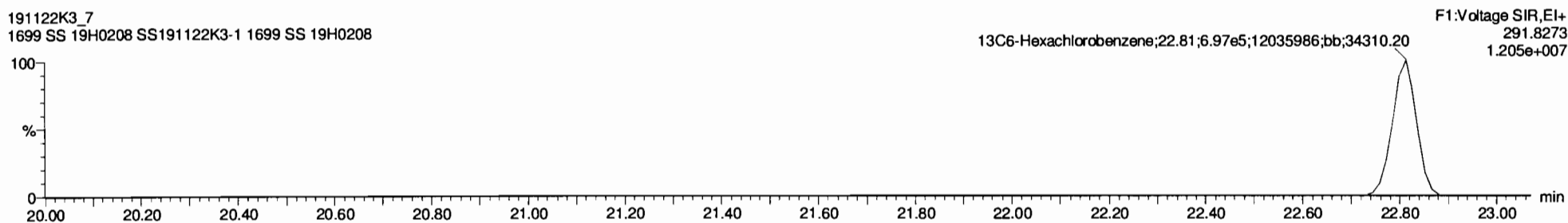


13C6-Hexachlorobenzene

191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208



191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208



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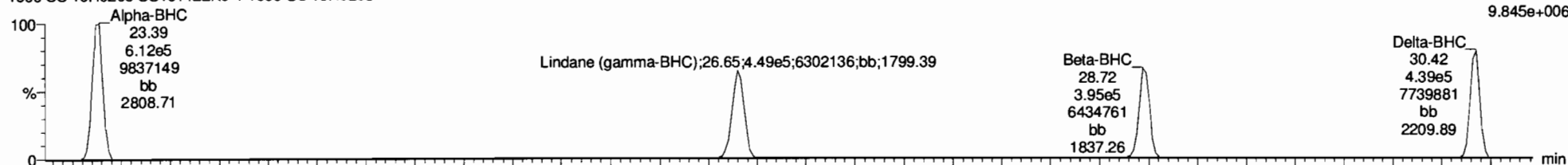
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BHC Totals

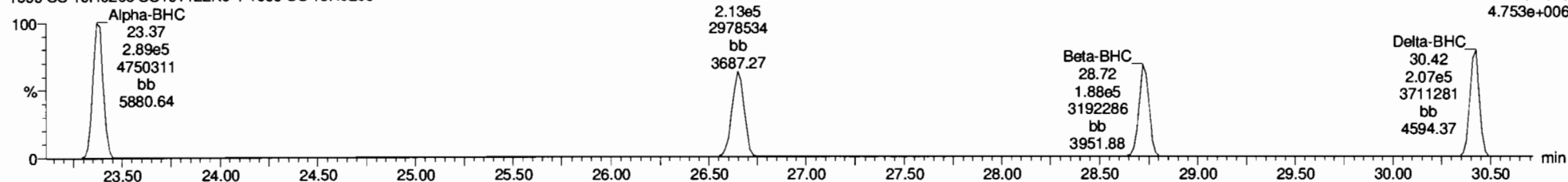
191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

F2:Voltage SIR,EI+
218.9116
9.845e+006



191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

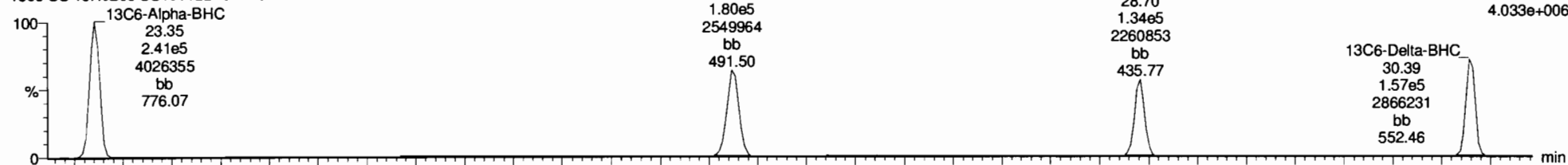
F2:Voltage SIR,EI+
220.9086
4.753e+006



BHC-isotopes

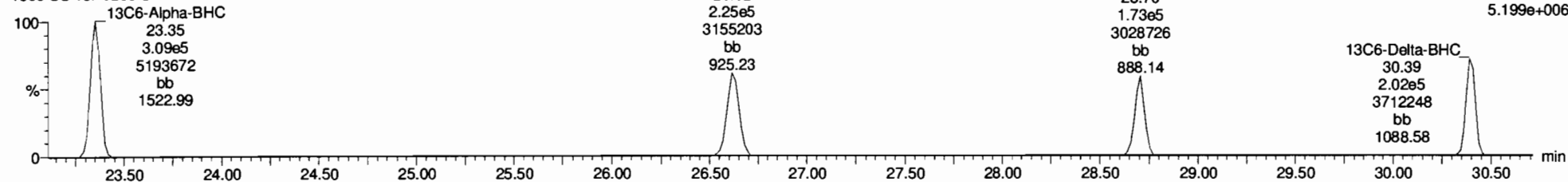
191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

F2:Voltage SIR,EI+
222.9346
4.033e+006



191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

F2:Voltage SIR,EI+
224.9317
5.199e+006



Dataset: Untitled

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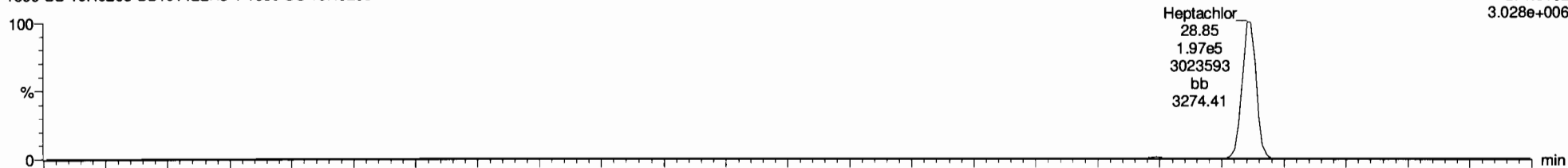
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Heptachlor

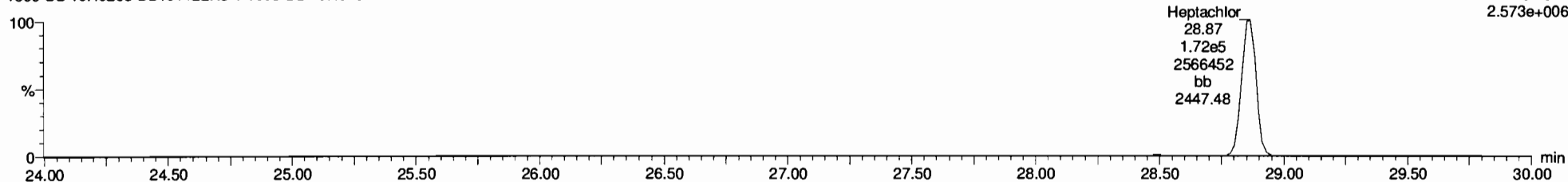
191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

F2:Voltage SIR,EI+
271.8102
3.028e+006



191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

F2:Voltage SIR,EI+
273.8072
2.573e+006



¹³C¹⁰-Heptachlor

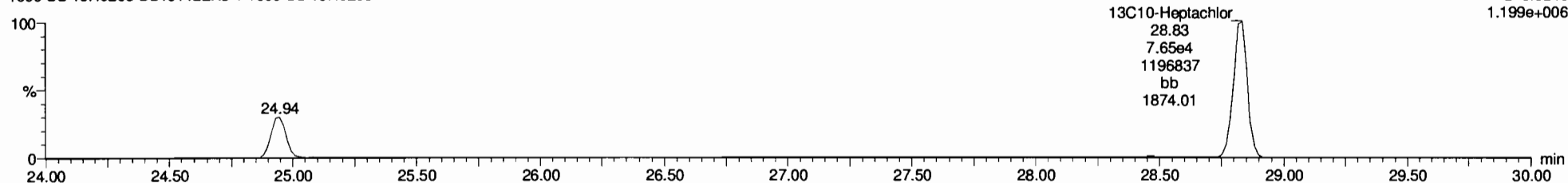
191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

F2:Voltage SIR,EI+
276.8269
1.582e+006



191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

F2:Voltage SIR,EI+
278.8240
1.199e+006



Dataset: Untitled

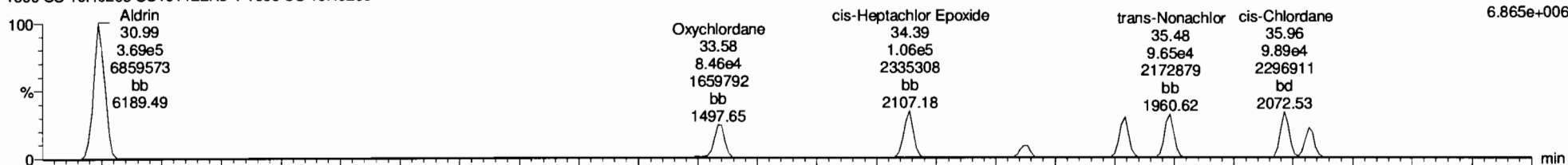
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Aldrin-EI

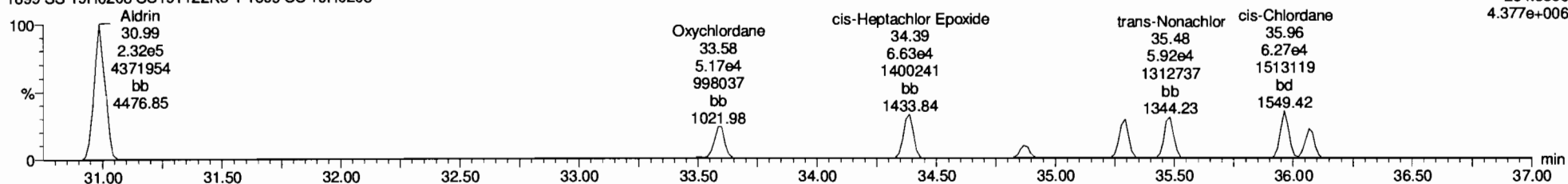
191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

F3:Voltage SIR,EI+
262.8569
6.865e+006



191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

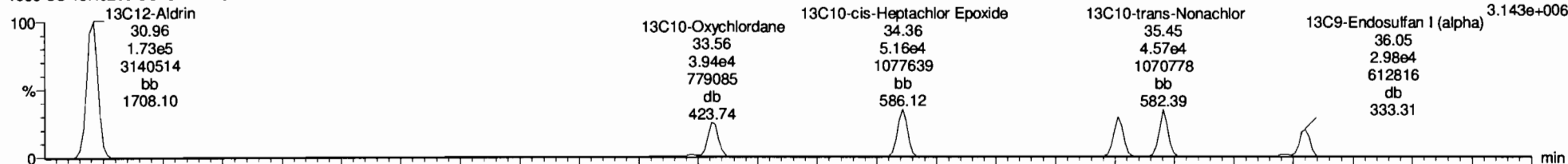
F3:Voltage SIR,EI+
264.8550
4.377e+006



Aldrin-EI-isotopes

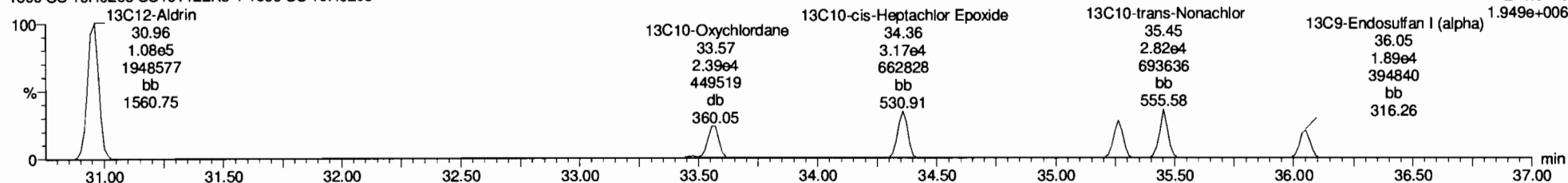
191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

F3:Voltage SIR,EI+
269.8804
3.143e+006



191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

F3:Voltage SIR,EI+
271.8775
1.949e+006



Dataset: Untitled

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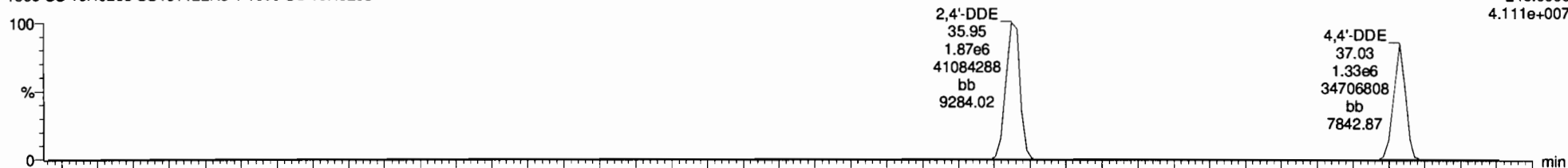
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DDMU-DDE

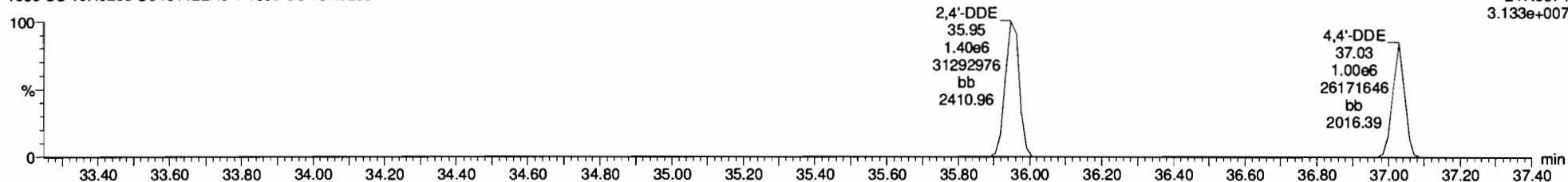
191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

F3:Voltage SIR,EI+
246.0003
4.111e+007



191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

F3:Voltage SIR,EI+
247.9974
3.133e+007



DDE-isotopes

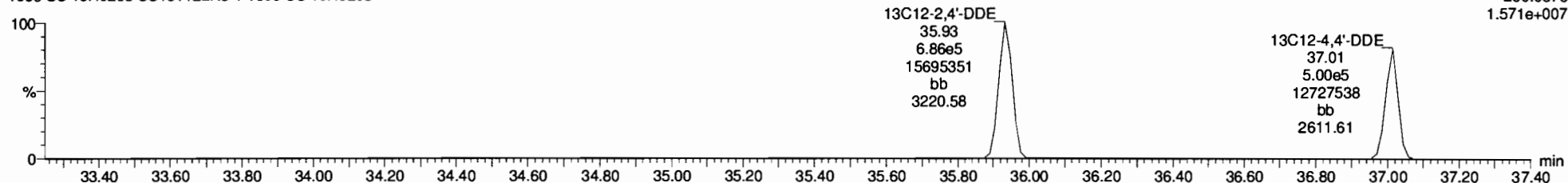
191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

F3:Voltage SIR,EI+
258.0406
2.503e+007



191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

F3:Voltage SIR,EI+
260.0376
1.571e+007

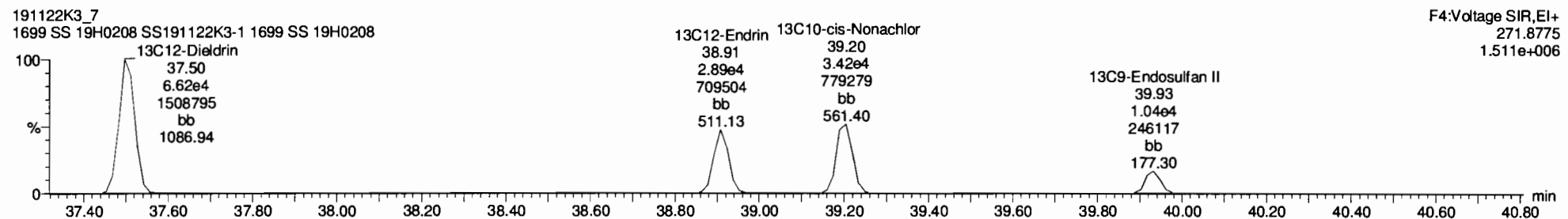
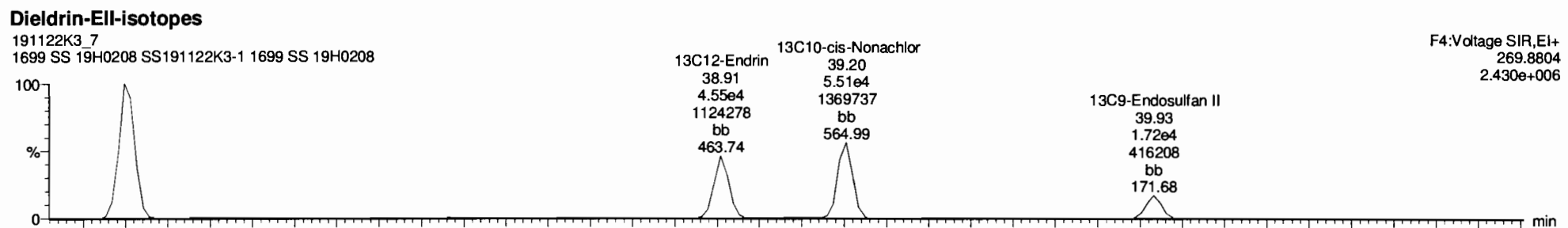
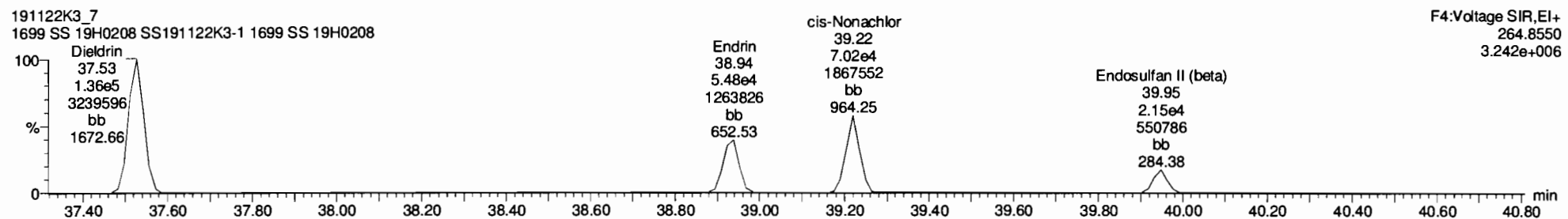
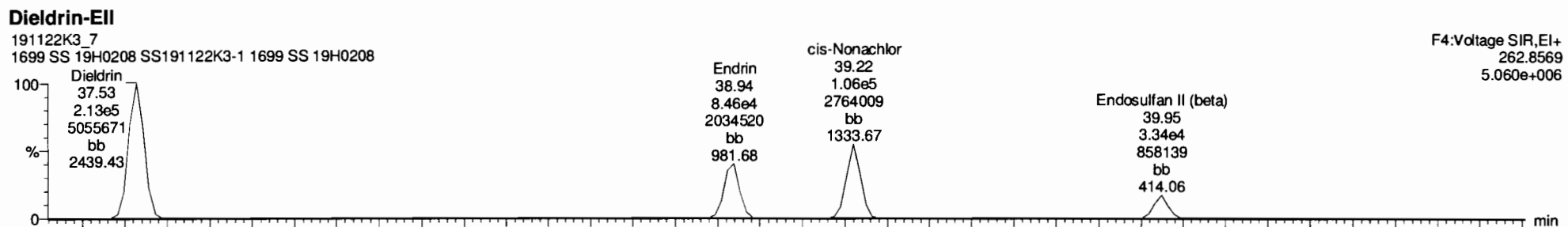


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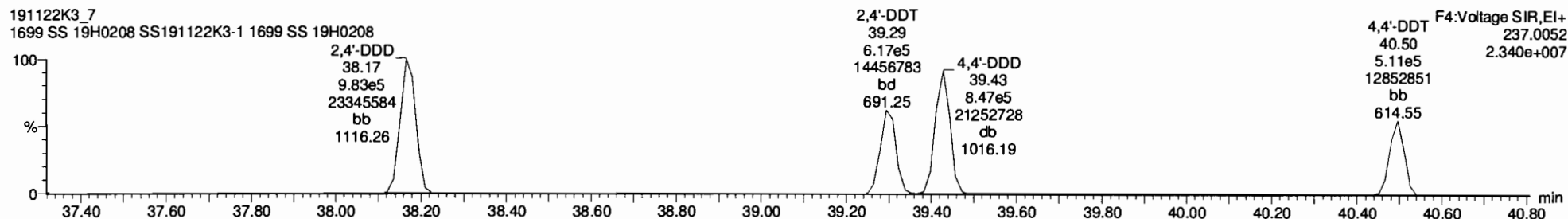
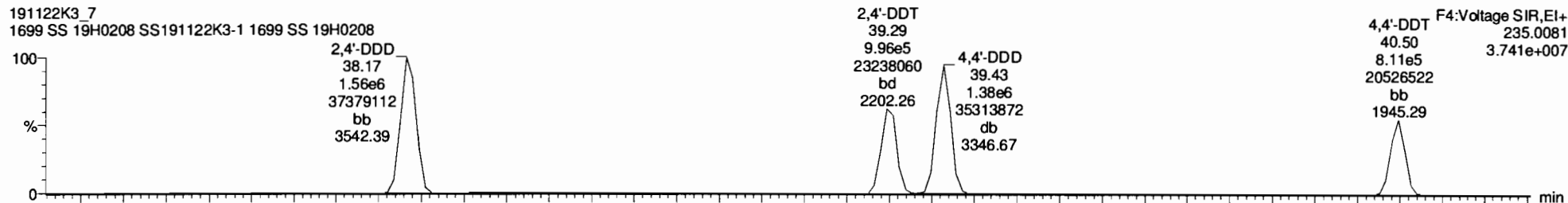
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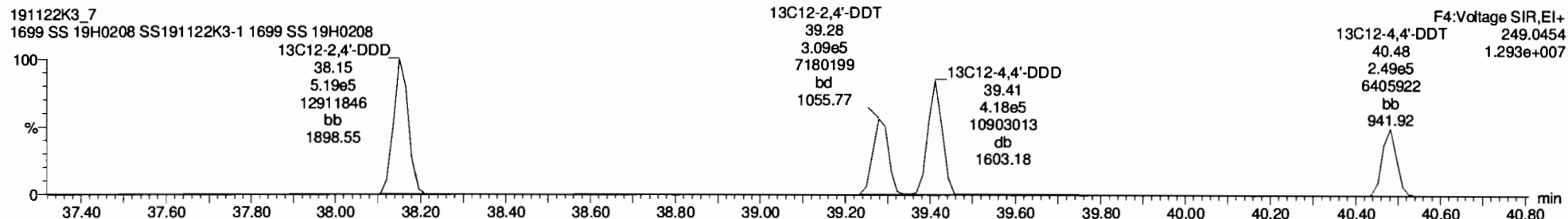
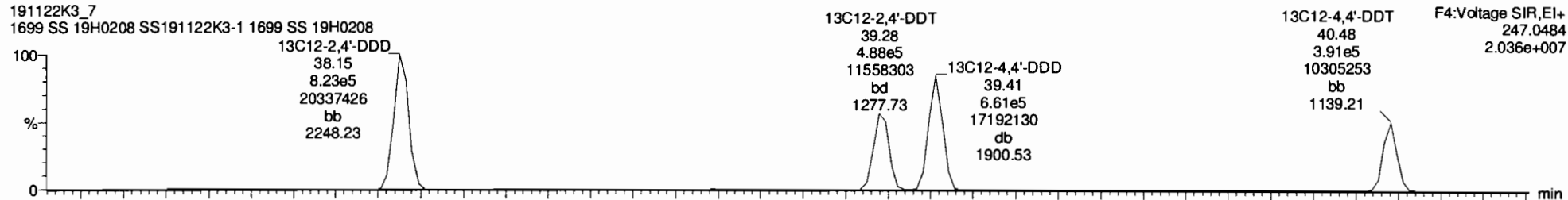
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DDD-DDT



DDD-DDT-isotopes



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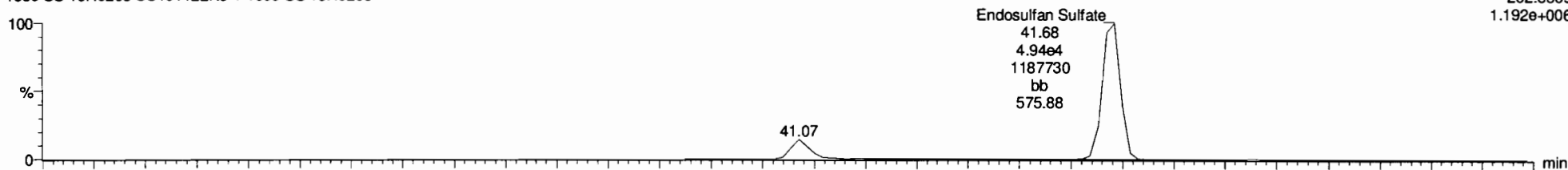
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Endosulfan Sulfate

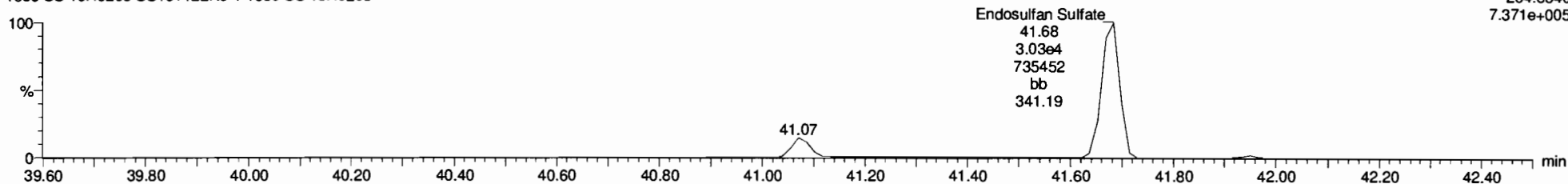
191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

F5:Voltage SIR,El+
262.8569
1.192e+006



191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

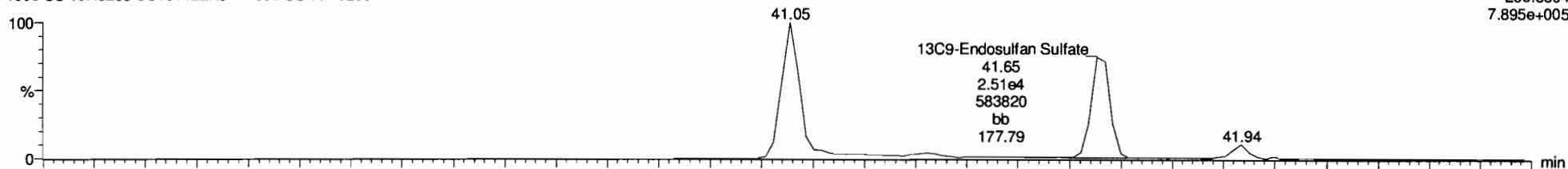
F5:Voltage SIR,El+
264.8540
7.371e+005



13C9-Endosulfan Sulfate

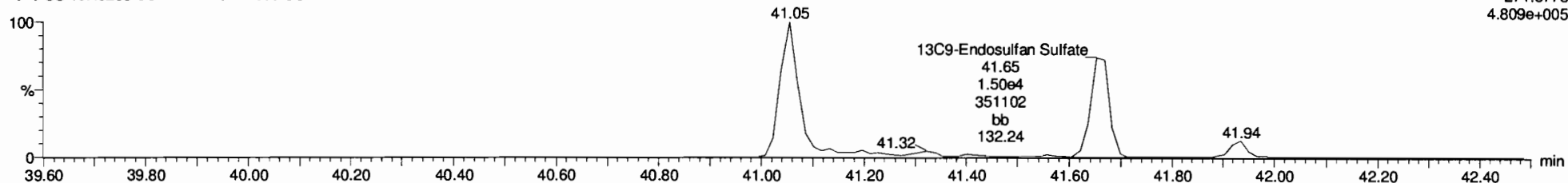
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1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

F5:Voltage SIR,El+
269.8804
7.895e+005



191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

F5:Voltage SIR,El+
271.8775
4.809e+005



Dataset: Untitled

Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_7, Date: 22-Nov-2019, Time: 20:56:01, ID: SS191122K3-1 1699 SS 19H0208, Description: 1699 SS 19H0208

4,4'-Methoxychlor

191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

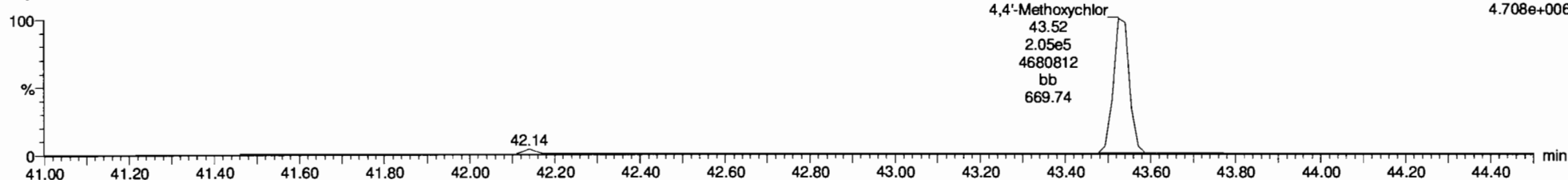
F5:Voltage SIR,EI+
227.1072
2.760e+007



4,4'-Methoxychlor
43.54
1.21e6
27538124
bb
4612.30

191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

F5:Voltage SIR,EI+
228.1106
4.708e+006

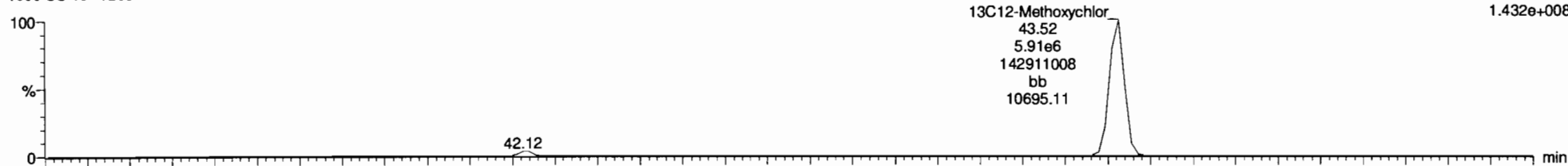


4,4'-Methoxychlor
43.52
2.05e5
4680812
bb
669.74

13C12-Methoxychlor

191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

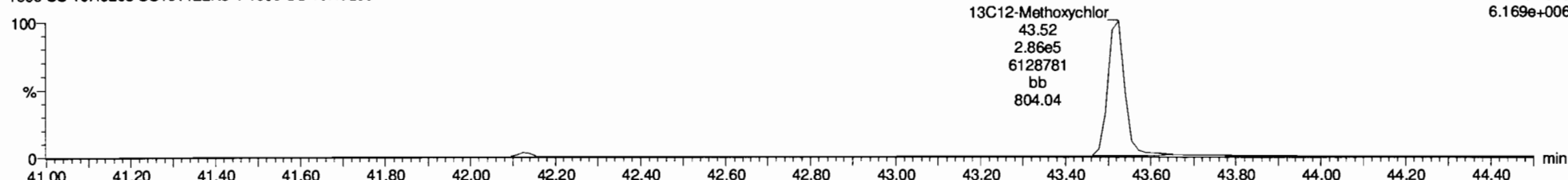
F5:Voltage SIR,EI+
239.1475
1.432e+008



13C12-Methoxychlor
43.52
5.91e6
142911008
bb
10695.11

191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

F5:Voltage SIR,EI+
240.1508
6.169e+006



13C12-Methoxychlor
43.52
2.86e5
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bb
804.04

Dataset: Untitled

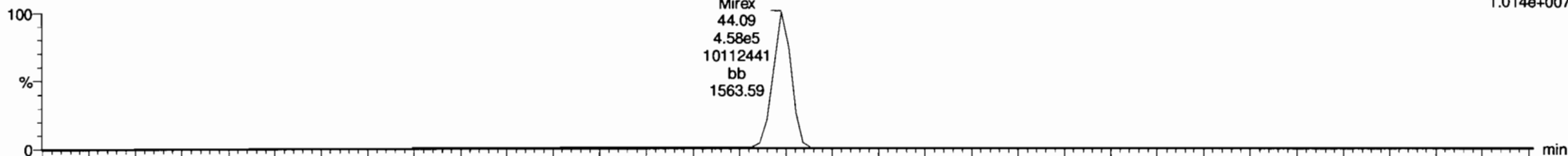
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Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_7, Date: 22-Nov-2019, Time: 20:56:01, ID: SS191122K3-1 1699 SS 19H0208, Description: 1699 SS 19H0208

Mirex

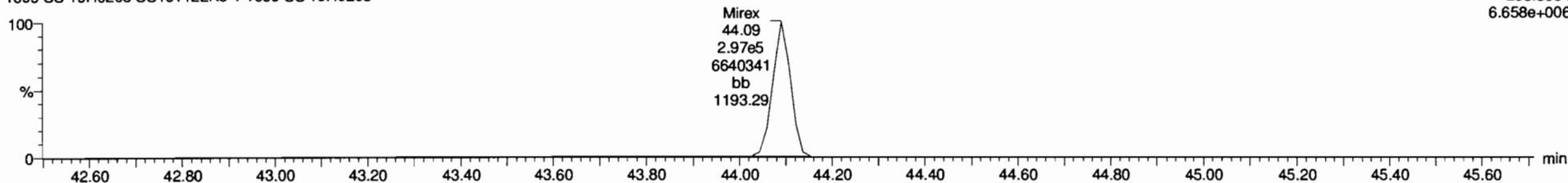
191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

F5:Voltage SIR,EI+
236.8413
1.014e+007



191122K3_7
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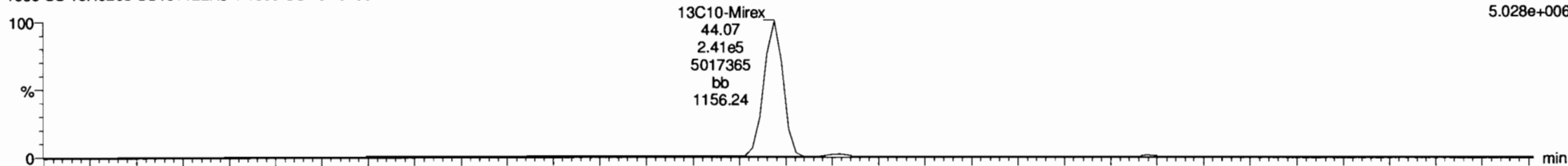
F5:Voltage SIR,EI+
238.8384
6.658e+006



13C10-Mirex

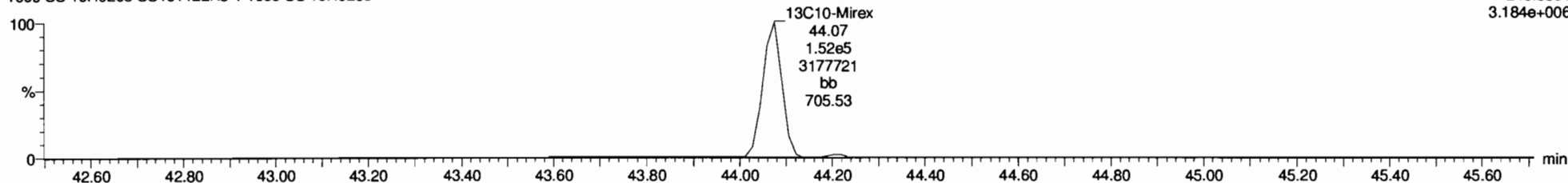
191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

F5:Voltage SIR,EI+
241.8581
5.028e+006



191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

F5:Voltage SIR,EI+
243.8551
3.184e+006



Dataset: Untitled

Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

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Name: 191122K3_7, Date: 22-Nov-2019, Time: 20:56:01, ID: SS191122K3-1 1699 SS 19H0208, Description: 1699 SS 19H0208

EA-EK

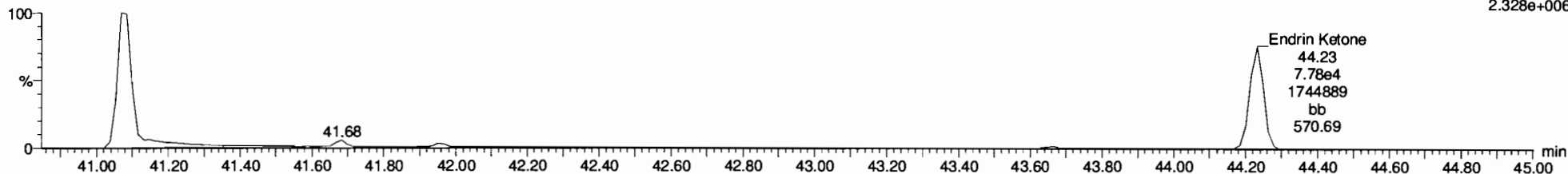
191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

F5:Voltage SIR,EI+
247.8521
1.542e+006



191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

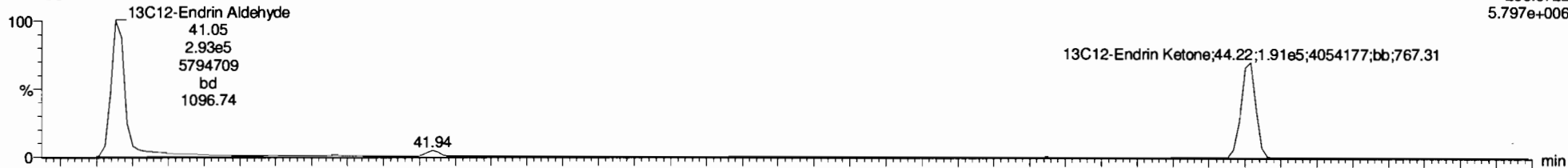
F5:Voltage SIR,EI+
249.8491
2.328e+006



EA-EK-isotopes

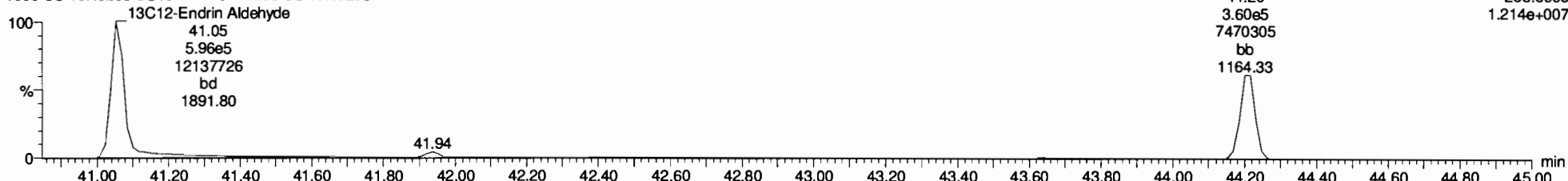
191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

F5:Voltage SIR,EI+
253.8722
5.797e+006

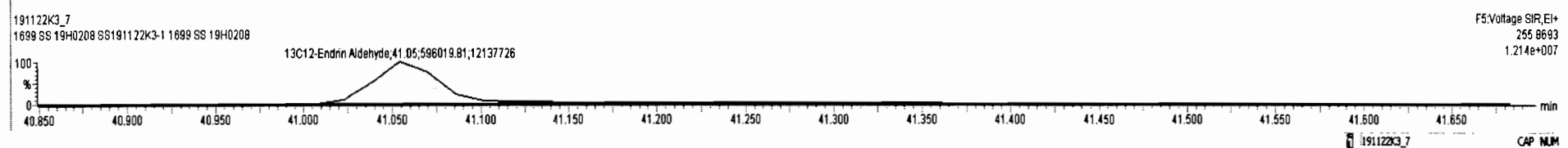
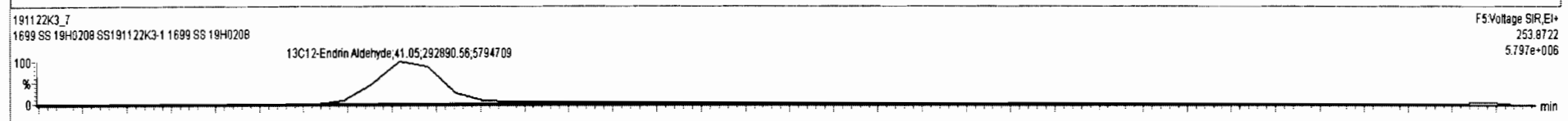
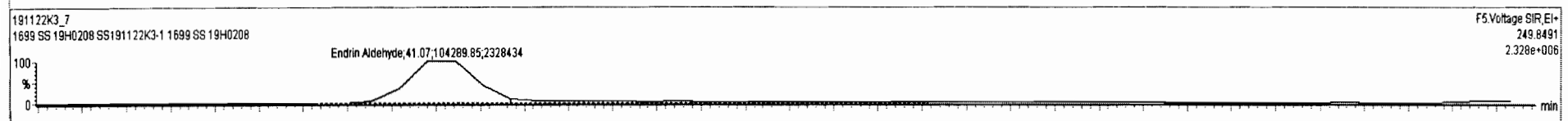
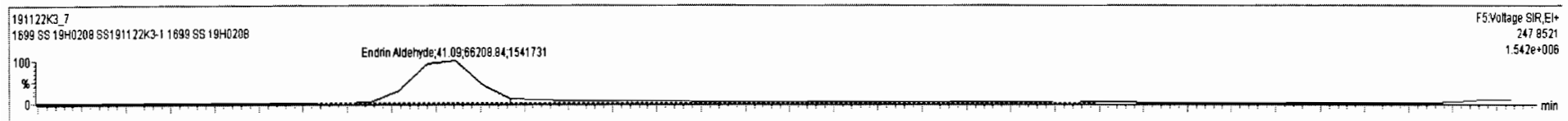


191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

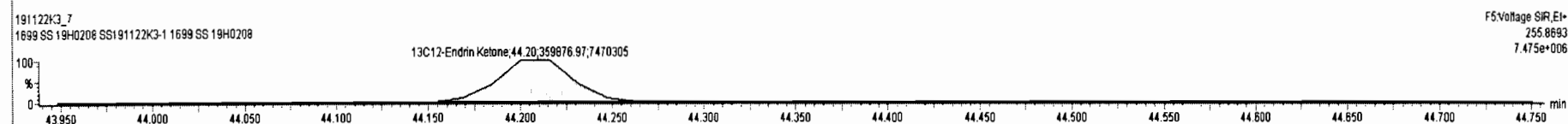
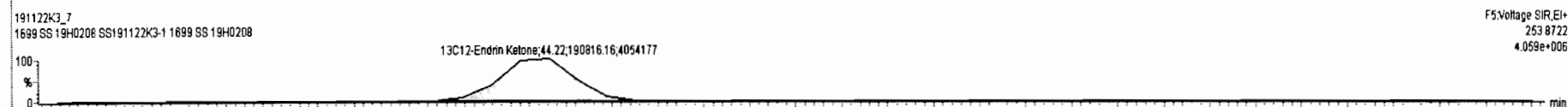
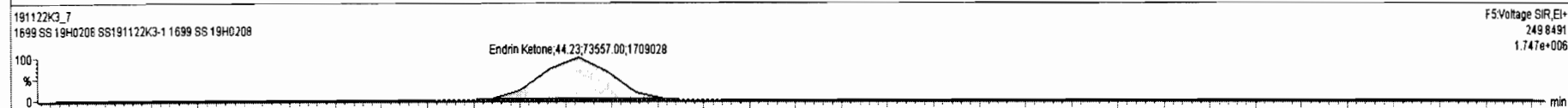
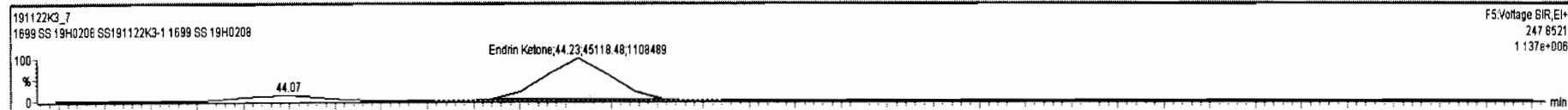
F5:Voltage SIR,EI+
255.8693
1.214e+007



#	Name	Resp	RA	Infy	RRF	wtAvail	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	BMP
15	15 cis-Chlordane	1.62e5	1.58	NO	0.9810	1.000	35.96	35.96	1.014	1.014	NO	111.5	111	0.154	111.5
16	16 Endosulfan I (alpha)	1.06e5	1.59	NO	1.1062	1.000	36.07	36.06	1.001	1.000	NO	98.71	98.7	0.235	98.71
17	17 4,4'-DDMU	2.22e3	2.58	NO	0.6167	1.000	35.72	35.73	0.994	0.994	NO	0.1012	0.101	0.0372	0.1012
18	18 2,4'-DDE	3.26e5	1.34	NO	0.8542	1.000	35.94	35.95	1.000	1.000	NO	107.6	108	0.0625	107.6
19	19 4,4'-DDE	2.33e6	1.33	NO	0.8728	1.000	37.03	37.03	1.000	1.000	NO	104.2	104	0.0757	104.2
20	20 Dieldrin	3.49e5	1.57	NO	0.9570	1.000	37.52	37.53	1.000	1.001	NO	105.5	105	0.133	105.5
21	21 Endrin	1.39e5	1.54	NO	0.9326	1.000	38.91	38.94	1.000	1.001	NO	100.5	100	0.293	100.5
22	22 cis-Nonachlor	1.76e5	1.51	NO	0.9556	1.000	39.22	39.22	1.000	1.000	NO	103.4	103	0.236	103.4
23	23 Endosulfan II (beta)	5.49e4	1.55	NO	1.0639	1.000	39.93	39.95	1.000	1.000	NO	93.39	93.4	0.704	93.39
24	24 2,4'-DDD	2.55e6	1.59	NO	0.9153	1.000	38.15	38.17	1.000	1.000	NO	103.7	104	0.130	103.7
25	25 2,4'-DDT	1.61e6	1.61	NO	0.9205	1.000	39.30	39.29	1.000	1.000	NO	109.9	110	0.226	109.9
26	26 4,4'-DDD	2.23e6	1.63	NO	1.0039	1.000	39.43	39.43	1.000	1.000	NO	102.8	103	0.140	102.8
27	27 4,4'-DDT	1.32e6	1.59	NO	0.9665	1.000	40.50	40.50	1.000	1.000	NO	104.6	105	0.236	104.6
28	28 Endosulfan Sulfate	7.98e4	1.63	NO	0.9279	1.000	41.65	41.68	1.000	1.001	NO	107.4	107	0.610	107.4
28	28 4,4'-Methoxychlor	1.41e6	5.90	NO	1.1362	1.000	43.53	43.54	1.000	1.000	NO	100.5	100	0.0952	100.5
30	30 Mirex	7.55e5	1.54	NO	0.9323	1.000	44.10	44.08	1.000	1.000	NO	103.2	103	0.197	103.2
31	31 Endrin Aldehyde	1.70e5	0.63	NO	0.8897	1.000	41.07	41.08	1.000	1.001	NO	108.2	108	0.475	108.2
32	32 Endrin Ketone	1.19e5	0.61	NO	0.9108	1.000	44.22	44.23	1.000	1.000	NO	118.3	118	0.695	118.3
33	33 13C4-Hexachlorobutadiene	3.33e6	1.26	NO	0.1382	1.000	10.19	10.20	0.390	0.391	NO	516.7	103	0.0227	
34	34 13C6-Hexachlorobenzene	1.59e6	1.26	NO	0.6911	1.000	22.82	22.81	0.874	0.873	NO	49.35	98.7	0.00400	
35	35 13C6-Alpha-BHC	5.51e5	0.78	NO	0.2457	1.000	23.37	23.35	0.895	0.894	NO	48.04	96.1	0.129	
36	36 13C6-Lindane (gamma)	4.05e5	0.80	NO	0.1891	1.000	26.63	26.62	1.020	1.019	NO	45.97	91.9	0.167	
37	37 13C6-Beta-BHC	3.07e5	0.77	NO	0.1406	1.000	28.68	28.70	1.098	1.099	NO	46.78	93.6	0.225	
38	38 13C6-Delta-BHC	3.59e5	0.78	NO	0.1644	1.000	30.38	30.39	1.163	1.164	NO	46.80	93.6	0.192	
39	39 13C10-Heptachlor	1.79e5	1.34	NO	0.0770	1.000	28.81	28.82	1.103	1.103	NO	49.78	99.6	0.0775	



#	Name	Resp	RA	ntf	RRF	wt/rd	Pred.RT	RT	Pred.RT	RRF	RT Fail	Conc.	%Rec	DL	EMPC
15	cis-Chlordane	1.62e5	1.58	NO	0.9910	1.000	35.96	35.96	1.014	1.014	NO	111.5	111	0.154	111.5
16	Endosulfan I (alpha)	1.06e5	1.59	NO	1.1062	1.000	36.07	36.06	1.001	1.000	NO	98.71	98.7	0.235	98.71
17	4,4'-DDMU	2.22e3	2.58	NO	0.6167	1.000	35.72	35.73	0.994	0.994	NO	0.1012	0.101	0.0372	0.1012
18	2,4'-DOE	3.26e6	1.34	NO	0.8542	1.000	35.94	35.95	1.000	1.000	NO	107.6	108	0.0625	107.6
19	4,4'-DOE	2.33e6	1.33	NO	0.8726	1.000	37.03	37.03	1.000	1.000	NO	104.2	104	0.0757	104.2
20	Dieldrin	3.49e5	1.57	NO	0.9570	1.000	37.52	37.53	1.000	1.001	NO	105.5	105	0.133	105.5
21	Endrin	1.39e5	1.54	NO	0.9326	1.000	36.91	36.94	1.000	1.001	NO	100.5	100	0.293	100.5
22	cis-Nonachlor	1.76e5	1.51	NO	0.9556	1.000	39.22	39.22	1.000	1.000	NO	103.4	103	0.236	103.4
23	Endosulfan II (beta)	5.49e4	1.55	NO	1.0638	1.000	39.93	39.96	1.000	1.000	NO	93.39	93.4	0.704	93.39
24	2,4'-DDD	2.55e6	1.59	NO	0.9153	1.000	38.15	38.17	1.000	1.000	NO	103.7	104	0.130	103.7
25	2,4'-DDT	1.61e6	1.61	NO	0.9205	1.000	39.30	39.29	1.000	1.000	NO	109.9	110	0.226	109.9
26	4,4'-DDD	2.23e6	1.63	NO	1.0039	1.000	39.43	39.43	1.000	1.000	NO	102.8	103	0.140	102.8
27	4,4'-DDT	1.32e6	1.59	NO	0.9965	1.000	40.50	40.50	1.000	1.000	NO	104.6	105	0.236	104.6
28	Endosulfan Sulfate	7.99e4	1.63	NO	0.9279	1.000	41.65	41.68	1.000	1.001	NO	107.4	107	0.610	107.4
29	4,4'-Methoxychlor	1.41e6	5.90	NO	1.1362	1.000	43.53	43.54	1.000	1.000	NO	100.5	100	0.0952	100.5
30	Mirex	7.55e5	1.54	NO	0.9323	1.000	44.10	44.09	1.000	1.000	NO	103.2	103	0.197	103.2
31	Endrin Aldehyde	1.70e5	0.63	NO	0.8867	1.000	41.07	41.09	1.000	1.001	NO	108.2	108	0.475	108.2
32	Endrin Ketone	1.11e5	0.61	NO	0.9198	1.000	44.22	44.23	1.000	1.000	NO	118.2	118	0.895	118.3
33	13C4-Hexachlorobutadiene	3.33e6	1.26	NO	0.1382	1.000	10.19	10.20	0.390	0.391	NO	516.7	103	0.0227	
34	13C5-Hexachlorobenzene	1.59e6	1.28	NO	0.8911	1.000	22.82	22.81	0.874	0.873	NO	49.35	98.7	0.00400	
35	13C5-Alpha-BHC	5.51e5	0.78	NO	0.2457	1.000	23.37	23.35	0.895	0.894	NO	48.04	96.1	0.129	
36	13C5-Lindane (gamma)	4.05e5	0.80	NO	0.1891	1.000	26.53	26.52	1.020	1.019	NO	45.97	91.9	0.187	
37	13C5-Beta-BHC	3.07e5	0.77	NO	0.1406	1.000	28.68	28.70	1.098	1.099	NO	46.78	93.5	0.225	
38	13C5-Delta-BHC	3.59e5	0.78	NO	0.1644	1.000	30.38	30.38	1.163	1.164	NO	46.80	93.6	0.192	
39	13C10-Heptachlor	1.79e5	1.34	NO	0.0770	1.000	28.81	28.82	1.103	1.103	NO	49.78	99.6	0.0775	



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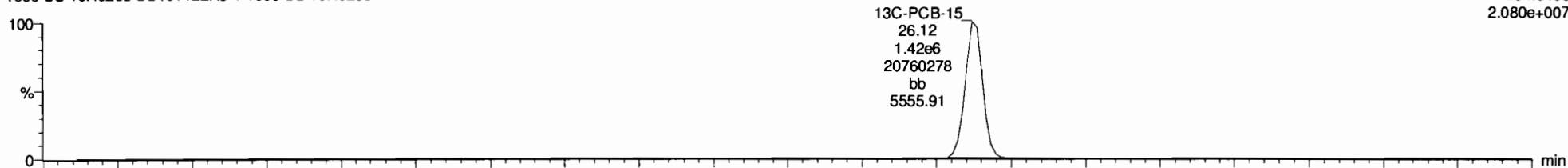
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_7, Date: 22-Nov-2019, Time: 20:56:01, ID: SS191122K3-1 1699 SS 19H0208, Description: 1699 SS 19H0208

13C-PCB-15

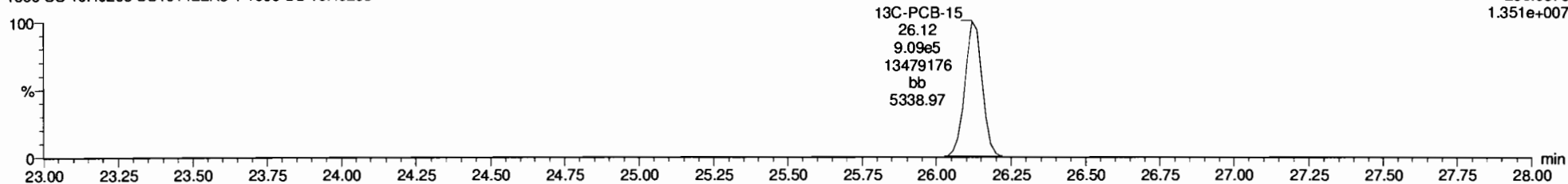
191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

F2:Voltage SIR,EI+
234.0406
2.080e+007



191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

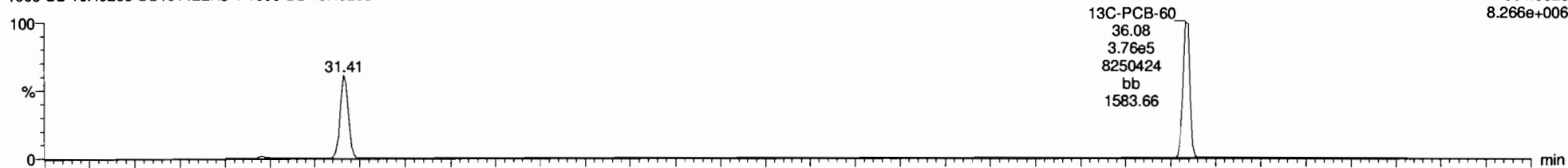
F2:Voltage SIR,EI+
236.0376
1.351e+007



13C-PCB-60

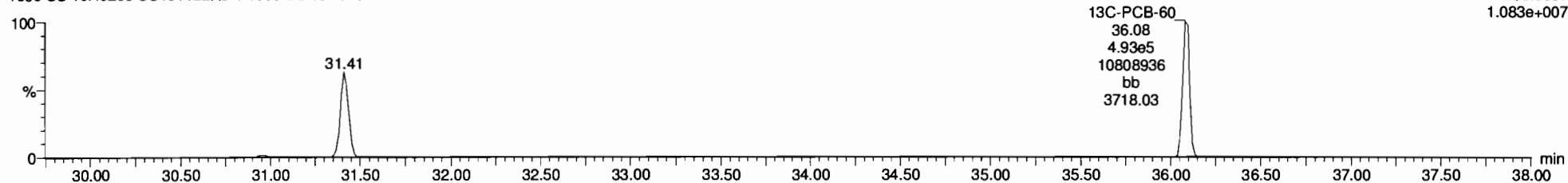
191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

F3:Voltage SIR,EI+
301.9626
8.266e+006



191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

F3:Voltage SIR,EI+
303.9597
1.083e+007



Dataset: Untitled

Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

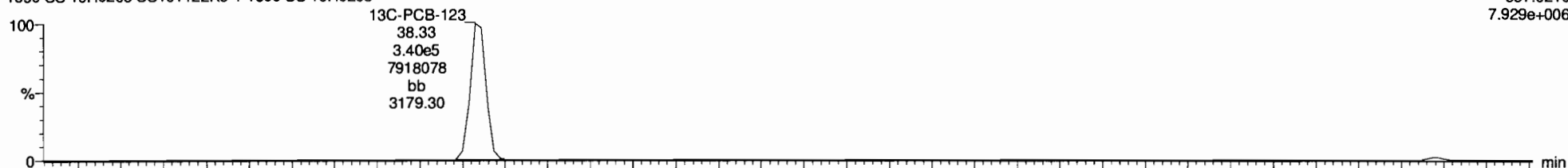
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13C-PCB-123

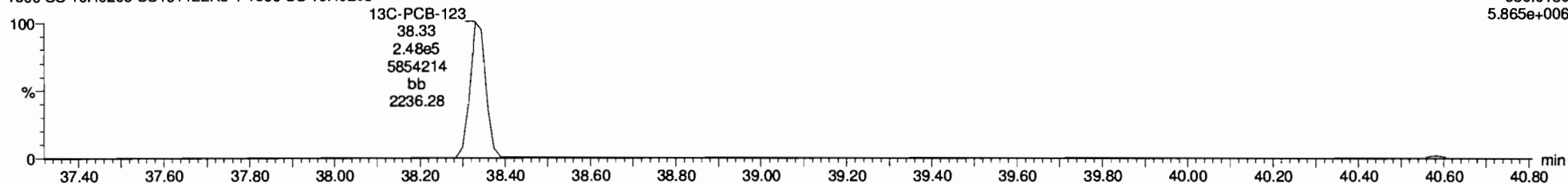
191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

F4:Voltage SIR,EI+
337.9210
7.929e+006



191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

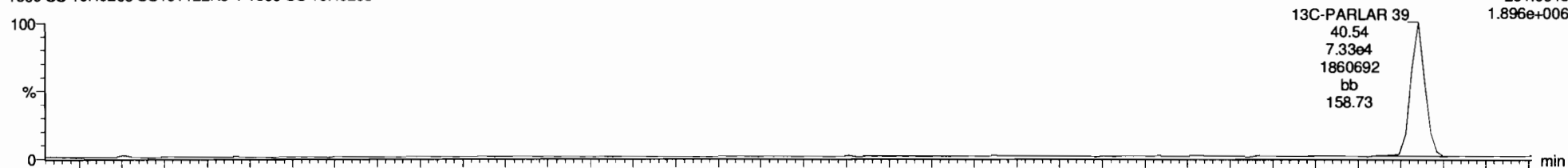
F4:Voltage SIR,EI+
339.9180
5.865e+006



13C-PARLAR 39

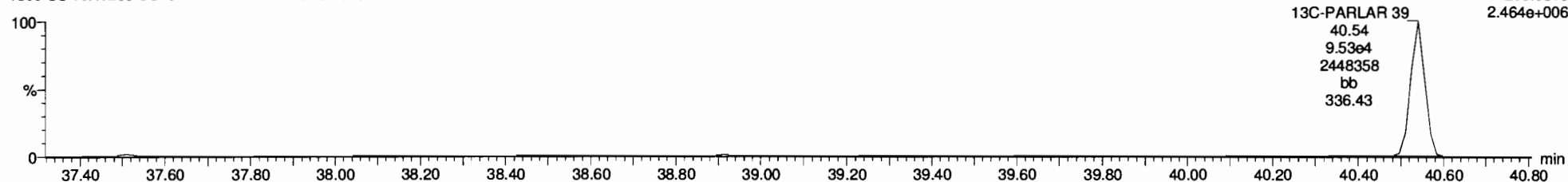
191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

F4:Voltage SIR,EI+
251.9648
1.896e+006



191122K3_7
1699 SS 19H0208 SS191122K3-1 1699 SS 19H0208

F4:Voltage SIR,EI+
253.9619
2.464e+006



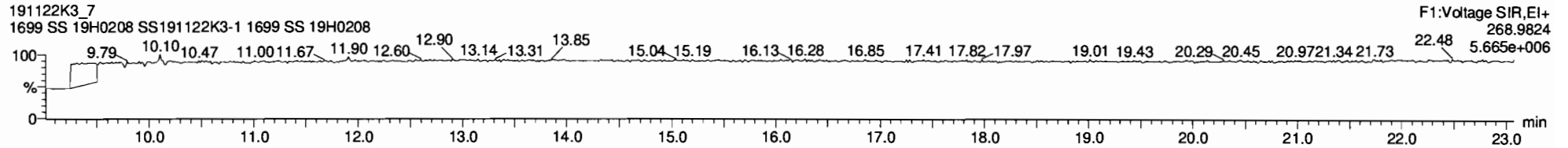
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Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

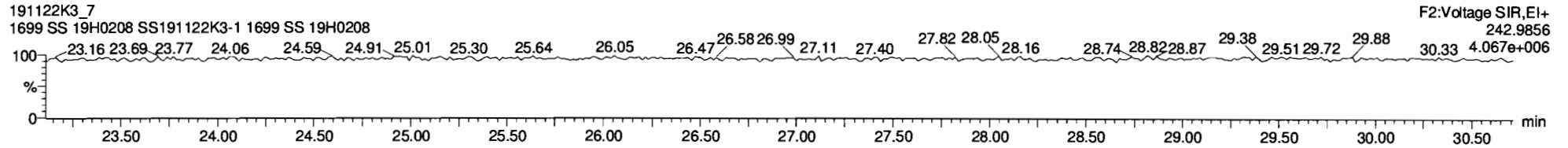
Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

Name: 191122K3_7, Date: 22-Nov-2019, Time: 20:56:01, ID: SS191122K3-1 1699 SS 19H0208, Description: 1699 SS 19H0208

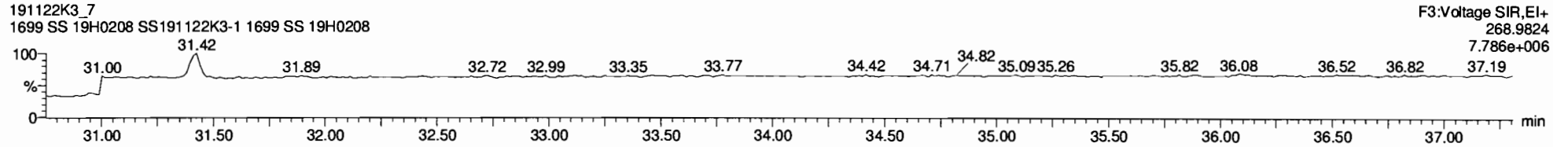
PFK1



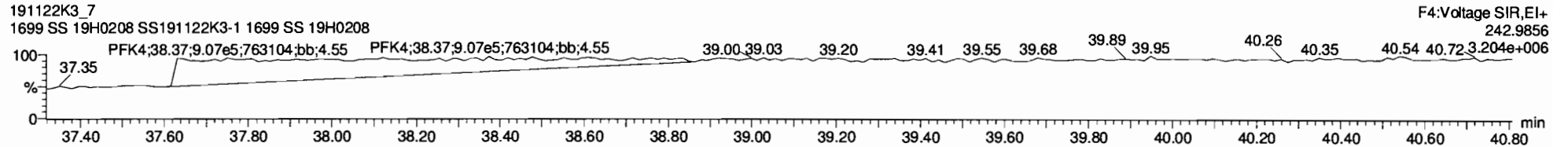
PFK2



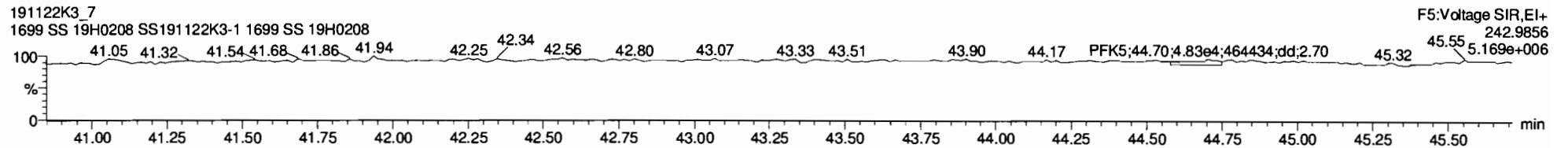
PFK3



PFK4



PFK5



Dataset: Untitled

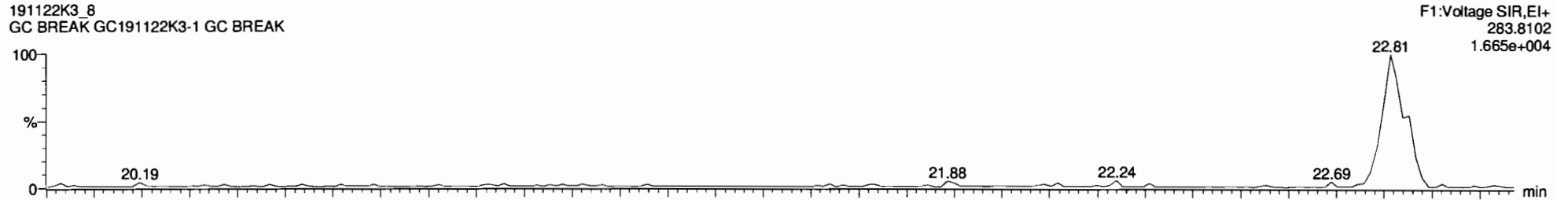
Last Altered: Saturday, November 23, 2019 13:17:08 Pacific Standard Time

Printed: Saturday, November 23, 2019 13:23:12 Pacific Standard Time

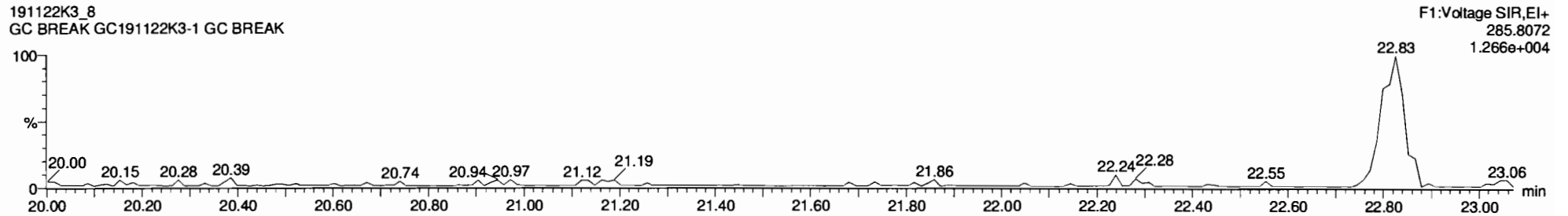
Name: 191122K3_8, Date: 22-Nov-2019, Time: 21:45:34, ID: GC191122K3-1 GC BREAK, Description: GC BREAK

Hexachlorobenzene

191122K3_8
GC BREAK GC191122K3-1 GC BREAK

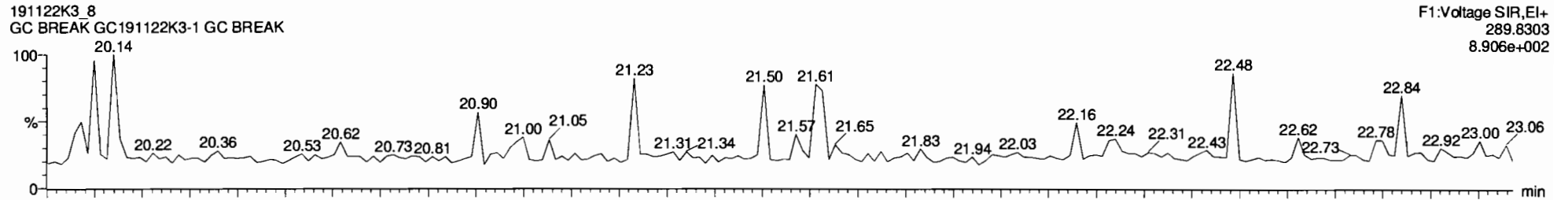


191122K3_8
GC BREAK GC191122K3-1 GC BREAK

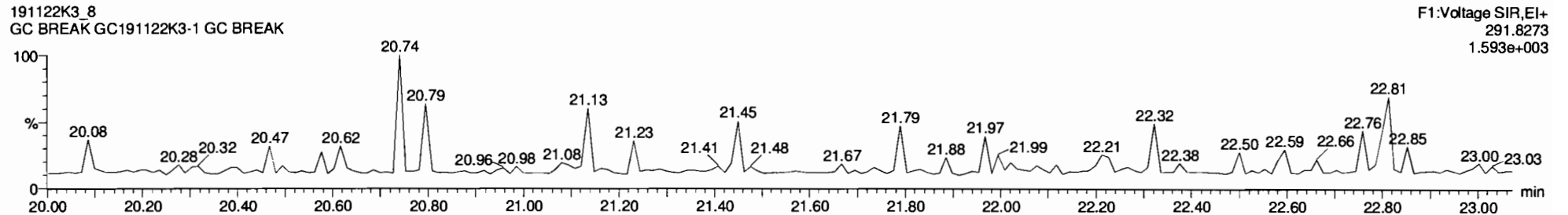


13C6-Hexachlorobenzene

191122K3_8
GC BREAK GC191122K3-1 GC BREAK



191122K3_8
GC BREAK GC191122K3-1 GC BREAK



Dataset: U:\VG11.PRO\Results\200125K1\200125K1-CRV.qld

Last Altered: Monday, January 27, 2020 09:02:26 Pacific Standard Time
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He 1-27-2020
CT 01/27/2020
limited
new high point for:
- trans-chlordane (gamma)
- Endosulfan I (alpha)
- Endosulfan II (beta) } @ 250

Method: U:\VG11.PRO\MethDB\1699rrt-01-25-2020.mdb 25 Jan 2020 13:55:51
 Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-1-25-20-LIMITED.cdb 27 Jan 2020 09:02:26

Compound name: Hexachlorobenzene
 Response Factor: 0.996909
 RRF SD: 0.0391556, Relative SD: 3.9277
 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
200125K1_1		1.29	NO	22.65	1.001	4.01e4	1.08e6	1.86	-7.0	0.928	bb
200125K1_2	10.0	1.27	NO	22.65	1.001	3.30e5	1.59e6	10.4	3.9	1.04	bb
200125K1_3	100	1.25	NO	22.66	1.001	2.52e6	1.29e6	98.0	-2.0	0.977	bb
200125K1_4	250	1.24	NO	22.65	1.001	9.58e6	1.98e6	242	-3.0	0.967	bb
200125K1_5	1200	1.24	NO	22.66	1.001	2.98e7	1.29e6	1160	-3.5	0.962	bb
200125K1_6	50.0	1.25	NO	22.65	1.001	1.07e6	1.03e6	52.3	4.6	1.04	bb

Compound name: Alpha-BHC
 Response Factor: 0.861729
 RRF SD: 0.0306851, Relative SD: 3.56087
 Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
 Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200125K1_1		2.26	NO	23.20	1.001	1.43e4	4.07e5	2.04	1.8	0.878	bb
200125K1_2	10.0	2.17	NO	23.20	1.001	1.05e5	5.98e5	10.2	2.0	0.879	bb
200125K1_3	100	2.13	NO	23.20	1.001	8.26e5	4.93e5	97.2	-2.8	0.838	bb
200125K1_4	250	2.11	NO	23.20	1.001	3.14e6	7.46e5	244	-2.4	0.841	bb
200125K1_5	1200	2.10	NO	23.20	1.001	1.01e7	5.01e5	1170	-2.2	0.843	bb
200125K1_6	50.0	2.15	NO	23.20	1.001	3.43e5	3.78e5	52.7	5.4	0.908	bb

Dataset: U:\VG11.PRO\Results\200125K1\200125K1-CRV.qld

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Compound name: Lindane (gamma-BHC)

Response Factor: 0.868971
 RRF SD: 0.0249496, Relative SD: 2.87116
 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
200125K1_1		2.01	NO	26.49	1.001	9.75e3	3.08e5	1.82	-8.8	0.792	MM
200125K1_2	10.0	2.11	NO	26.51	1.001	8.21e4	4.71e5	10.0	0.2	0.871	bb
200125K1_3	100	2.10	NO	26.51	1.001	6.40e5	3.79e5	97.1	-2.9	0.844	bb
200125K1_4	250	2.09	NO	26.51	1.001	2.57e6	5.99e5	247	-1.4	0.857	bb
200125K1_5	1200	2.10	NO	26.51	1.001	8.06e6	3.89e5	1190	-0.7	0.863	bb
200125K1_6	50.0	2.20	NO	26.51	1.001	2.76e5	3.04e5	52.4	4.7	0.910	bb

Compound name: Beta-BHC

Response Factor: 1.01731
 RRF SD: 0.0367395, Relative SD: 3.61143
 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
200125K1_1		2.10	NO	28.55	1.001	9.64e3	2.40e5	1.98	-1.1	1.01	bb
200125K1_2	10.0	2.14	NO	28.55	1.001	7.24e4	3.58e5	9.93	-0.7	1.01	bb
200125K1_3	100	2.15	NO	28.55	1.001	5.84e5	2.94e5	97.6	-2.4	0.993	bb
200125K1_4	250	2.11	NO	28.57	1.001	2.33e6	4.74e5	241	-3.5	0.982	bb
200125K1_5	1200	2.13	NO	28.57	1.001	7.42e6	3.01e5	1210	0.8	1.03	bb
200125K1_6	50.0	2.19	NO	28.55	1.001	2.45e5	2.28e5	52.9	5.7	1.08	bb

Compound name: Delta-BHC

Response Factor: 0.952053
 RRF SD: 0.0288312, Relative SD: 3.02832
 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
200125K1_1		1.91	NO	30.24	1.001	9.90e3	2.72e5	1.91	-4.5	0.909	MM
200125K1_2	10.0	2.09	NO	30.24	1.001	8.28e4	4.23e5	10.3	2.6	0.977	bb

Dataset: U:\VG11.PRO\Results\200125K1\200125K1-CRV.qld

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Compound name: Delta-BHC

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200125K1_3	100	2.06	NO	30.24	1.001	6.46e5	3.50e5	97.0	-3.0	0.923	bb
4	200125K1_4	250	2.11	NO	30.24	1.000	2.59e6	5.54e5	245	-1.9	0.934	bb
5	200125K1_5	1200	2.09	NO	30.24	1.000	8.11e6	3.61e5	1180	-1.6	0.937	bb
6	200125K1_6	50.0	2.10	NO	30.24	1.001	2.66e5	2.69e5	51.9	3.8	0.988	bb

Compound name: Heptachlor

Response Factor: 1.07868

RRF SD: 0.020999, Relative SD: 1.94673

Response type: Internal Std (Ref 39), 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	200125K1_1		1.15	NO	28.68	1.001	6.85e3	1.52e5	2.09	4.6	1.13	bb
2	200125K1_2	10.0	1.15	NO	28.68	1.001	5.32e4	2.44e5	10.1	1.1	1.09	bb
3	200125K1_3	100	1.19	NO	28.69	1.002	4.21e5	1.99e5	97.8	-2.2	1.06	bb
4	200125K1_4	250	1.16	NO	28.68	1.001	1.73e6	3.27e5	245	-2.0	1.06	bb
5	200125K1_5	1200	1.16	NO	28.69	1.001	5.49e6	2.10e5	1210	0.9	1.09	bb
6	200125K1_6	50.0	1.20	NO	28.68	1.001	1.69e5	1.53e5	51.1	2.1	1.10	bb

Compound name: Aldrin

Response Factor: 1.11111

RRF SD: 0.0326228, Relative SD: 2.93604

Response type: Internal Std (Ref 40), 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	200125K1_1		1.47	NO	30.80	1.001	8.12e3	2.01e5	1.81	-9.3	1.01	bb
2	200125K1_2	10.0	1.60	NO	30.80	1.001	6.96e4	3.07e5	10.2	2.0	1.13	bb
3	200125K1_3	100	1.61	NO	30.80	1.001	5.43e5	2.54e5	96.1	-3.9	1.07	bb
4	200125K1_4	250	1.58	NO	30.80	1.001	2.13e6	3.87e5	247	-1.1	1.10	bb
5	200125K1_5	1200	1.60	NO	30.80	1.001	6.58e6	2.49e5	1190	-0.8	1.10	bb
6	200125K1_6	50.0	1.56	NO	30.80	1.001	2.24e5	1.94e5	51.9	3.7	1.15	bb

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Dataset: U:\VG11.PRO\Results\200125K1\200125K1-CRV.qld

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Compound name: Oxychlordane

Response Factor: 1.0939

RRF SD: 0.0288743, Relative SD: 2.63958

Response type: Internal Std (Ref 41), Area * (IS Conc. / IS Area)

Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200125K1_1		1.50	NO	33.37	1.000	1.98e3	4.42e4	2.04	2.1	1.12	bb
200125K1_2	10.0	1.56	NO	33.38	1.001	1.58e4	7.08e4	10.2	2.3	1.12	MM
200125K1_3	100	1.64	NO	33.38	1.001	1.27e5	5.99e4	96.5	-3.5	1.06	MM
200125K1_4	250	1.59	NO	33.38	1.001	5.13e5	9.58e4	245	-2.1	1.07	MM
200125K1_5	1200	1.58	NO	33.38	1.001	1.64e6	6.16e4	1210	1.2	1.11	MM
200125K1_6	50.0	1.53	NO	33.38	1.001	5.25e4	4.70e4	51.1	2.1	1.12	MM

Compound name: cis-Heptachlor Epoxide

Response Factor: 1.13181

RRF SD: 0.0430955, Relative SD: 3.80767

Response type: Internal Std (Ref 42), Area * (IS Conc. / IS Area)

Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200125K1_1		1.57	NO	34.17	1.001	2.58e3	5.90e4	1.93	-3.6	1.09	bb
200125K1_2	10.0	1.52	NO	34.17	1.001	2.17e4	9.14e4	10.5	5.0	1.19	bb
200125K1_3	100	1.62	NO	34.17	1.001	1.64e5	7.55e4	96.0	-4.0	1.09	bb
200125K1_4	250	1.60	NO	34.17	1.001	6.78e5	1.23e5	243	-2.6	1.10	bb
200125K1_5	1200	1.59	NO	34.17	1.001	2.24e6	8.33e4	1190	-1.2	1.12	bb
200125K1_6	50.0	1.54	NO	34.17	1.001	6.89e4	5.91e4	51.5	2.9	1.16	bb

Compound name: trans-Heptachlor Epoxide

Response Factor: 0.260336

RRF SD: 0.0144991, Relative SD: 5.5694

Response type: Internal Std (Ref 42), Area * (IS Conc. / IS Area)

Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200125K1_1		1.43	NO	34.65	1.015	6.19e2	5.90e4	2.01	0.7	0.262	MM
200125K1_2	10.0	1.71	NO	34.67	1.015	5.05e3	9.14e4	10.6	6.0	0.276	bb

Dataset: U:\VG11.PRO\Results\200125K1\200125K1-CRV.qld

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Compound name: trans-Heptachlor Epoxide

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200125K1_3	100	1.59	NO	34.67	1.015	3.85e4	7.55e4	98.1	-1.9	0.255	bb
4	200125K1_4	250	1.60	NO	34.67	1.015	1.53e5	1.23e5	239	-4.4	0.249	bb
5	200125K1_5	1200	1.59	NO	34.67	1.015	4.92e5	8.33e4	1130	-5.5	0.246	bb
6	200125K1_6	50.0	1.72	NO	34.67	1.015	1.63e4	5.91e4	52.9	5.8	0.276	bb

Compound name: trans-Chlordane (gamma)

Response Factor: 1.17798

RRF SD: 0.0241175, Relative SD: 2.04735

Response type: Internal Std (Ref 43), 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	200125K1_1		1.95	NO	35.08	1.001	1.82e3	4.25e4	1.82	-9.2	1.07	MM
2	200125K1_2	10.0	1.58	NO	35.08	1.001	1.56e4	6.53e4	10.2	1.6	1.20	bb
3	200125K1_3	100	1.63	NO	35.08	1.001	1.26e5	5.32e4	100	0.2	1.18	bb
4	200125K1_4	250	1.57	NO	35.08	1.000	4.91e5	8.60e4	243	-3.0	1.14	bb
5	200125K1_5	1200	1.58	NO	35.07	1.000	1.57e6	6.99e4	951	-20.8	0.933	bbX
6	200125K1_6	50.0	1.60	NO	35.08	1.001	5.03e4	4.23e4	50.5	1.1	1.19	bb

Compound name: trans-Nonachlor

Response Factor: 1.07661

RRF SD: 0.0870651, Relative SD: 8.08693

Response type: Internal Std (Ref 44), 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	200125K1_1		1.47	NO	35.26	1.001	1.94e3	4.87e4	1.85	-7.6	0.995	MM
2	200125K1_2	10.0	1.56	NO	35.26	1.001	1.56e4	7.51e4	9.61	-3.9	1.04	bb
3	200125K1_3	100	1.62	NO	35.26	1.001	1.33e5	6.43e4	96.3	-3.7	1.04	bb
4	200125K1_4	250	1.60	NO	35.26	1.001	5.28e5	9.90e4	248	-0.9	1.07	bb
5	200125K1_5	1200	1.58	NO	35.26	1.000	1.70e6	6.95e4	1130	-5.6	1.02	bb
6	200125K1_6	50.0	1.66	NO	35.26	1.001	5.56e4	4.52e4	57.1	14.1	1.23	bb

Dataset: U:\VG11.PRO\Results\200125K1\200125K1-CRV.qld

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Compound name: cis-Chlordane

Response Factor: 1.10797

RRF SD: 0.0945856, Relative SD: 8.53684

Response type: Internal Std (Ref 44), Area * (IS Conc. / IS Area)

Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200125K1_1		1.77	NO	35.75	1.015	2.20e3	4.87e4	2.03	1.7	1.13	MM
200125K1_2	10.0	1.68	NO	35.75	1.015	1.71e4	7.51e4	10.3	2.6	1.14	bd
200125K1_3	100	1.63	NO	35.75	1.015	1.35e5	6.43e4	94.6	-5.4	1.05	bd
200125K1_4	250	1.59	NO	35.75	1.015	5.31e5	9.90e4	242	-3.2	1.07	bd
200125K1_5	1200	1.59	NO	35.74	1.014	1.71e6	6.95e4	1110	-7.7	1.02	bd
200125K1_6	50.0	1.46	NO	35.75	1.015	5.69e4	4.52e4	56.8	13.6	1.26	bd

Compound name: Endosulfan I (alpha)

Response Factor: 1.15523

RRF SD: 0.117323, Relative SD: 10.1558

Response type: Internal Std (Ref 45), Area * (IS Conc. / IS Area)

Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200125K1_1		1.66	NO	35.85	1.000	9.54e3	3.14e4	13.2	31.8	1.52	MM
200125K1_2	15.0	1.66	NO	35.85	1.000	1.91e4	4.89e4	16.9	12.5	1.30	db
200125K1_3	100	1.62	NO	35.85	1.000	9.26e4	4.08e4	98.1	-1.9	1.13	db
200125K1_4	250	1.59	NO	35.86	1.001	3.67e5	7.23e4	220	-12.1	1.02	db
200125K1_5	1200	1.56	NO	35.86	1.000	1.17e6	6.99e4	726	-39.5	0.699	dbX
200125K1_6	50.0	1.51	NO	35.85	1.000	3.77e4	3.21e4	50.7	1.5	1.17	db

Compound name: 2,4'-DDE

Response Factor: 0.984089

RRF SD: 0.0386239, Relative SD: 3.92484

Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)

Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200125K1_1		1.28	NO	35.73	1.000	4.38e4	1.16e6	1.92	-4.1	0.944	bb
200125K1_2	10.0	1.40	NO	35.73	1.000	3.60e5	1.76e6	10.4	3.7	1.02	bb

Dataset: U:\VG11.PRO\Results\200125K1\200125K1-CRV.qld

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Compound name: 2,4'-DDE

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200125K1_3	100	1.41	NO	35.73	1.000	2.84e6	1.48e6	97.7	-2.3	0.962	bb
4	200125K1_4	250	1.40	NO	35.73	1.000	1.09e7	2.29e6	242	-3.3	0.952	bb
5	200125K1_5	1200	1.40	NO	35.73	1.000	3.49e7	1.52e6	1160	-3.0	0.955	bb
6	200125K1_6	50.0	1.42	NO	35.73	1.000	1.15e6	1.12e6	52.4	4.9	1.03	bb

Compound name: 4,4'-DDE

Response Factor: 0.996133
 RRF SD: 0.0368034, Relative SD: 3.69463
 Response type: Internal Std (Ref 47), 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	200125K1_1		1.32	NO	36.81	1.000	3.10e4	8.27e5	1.88	-5.8	0.939	bb
2	200125K1_2	10.0	1.40	NO	36.80	1.000	2.66e5	1.28e6	10.4	4.2	1.04	bb
3	200125K1_3	100	1.39	NO	36.80	1.000	2.07e6	1.07e6	97.2	-2.8	0.968	bb
4	200125K1_4	250	1.40	NO	36.81	1.000	7.88e6	1.64e6	241	-3.7	0.959	bb
5	200125K1_5	1200	1.41	NO	36.81	1.001	2.63e7	1.11e6	1180	-1.4	0.982	bb
6	200125K1_6	50.0	1.38	NO	36.80	1.000	8.47e5	8.20e5	51.9	3.7	1.03	bb

Compound name: Dieldrin

Response Factor: 1.09337
 RRF SD: 0.0319396, Relative SD: 2.92121
 Response type: Internal Std (Ref 48), 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	200125K1_1		1.66	NO	37.31	1.001	4.72e3	1.14e5	1.89	-5.6	1.03	bb
2	200125K1_2	10.0	1.70	NO	37.30	1.000	3.99e4	1.77e5	10.3	3.2	1.13	bb
3	200125K1_3	100	1.55	NO	37.30	1.000	3.18e5	1.51e5	96.4	-3.6	1.05	bb
4	200125K1_4	250	1.58	NO	37.31	1.001	1.21e6	2.26e5	245	-2.2	1.07	bb
5	200125K1_5	1200	1.57	NO	37.31	1.001	3.75e6	1.43e5	1200	-0.1	1.09	bb
6	200125K1_6	50.0	1.53	NO	37.30	1.000	1.27e5	1.13e5	51.3	2.6	1.12	bb

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Dataset: U:\VG11.PRO\Results\200125K1\200125K1-CRV.qld

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Compound name: Endrin

Response Factor: 1.05663

RRF SD: 0.0215905, Relative SD: 2.04333

Response type: Internal Std (Ref 49), 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	200125K1_1		1.37	NO	38.71	1.000	2.55e3	6.78e4	1.78	-10.9	0.941	bb
2	200125K1_2	10.0	1.56	NO	38.71	1.000	2.38e4	1.13e5	9.96	-0.4	1.05	bb
3	200125K1_3	100	1.56	NO	38.71	1.000	1.95e5	9.37e4	98.5	-1.5	1.04	bb
4	200125K1_4	250	1.54	NO	38.71	1.000	7.46e5	1.42e5	248	-0.8	1.05	bb
5	200125K1_5	1200	1.56	NO	38.71	1.000	2.34e6	9.30e4	1190	-1.0	1.05	bb
6	200125K1_6	50.0	1.57	NO	38.71	1.000	7.48e4	6.84e4	51.8	3.6	1.09	bb

Compound name: cis-Nonachlor

Response Factor: 1.07721

RRF SD: 0.0418195, Relative SD: 3.88219

Response type: Internal Std (Ref 50), 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	200125K1_1		1.39	NO	38.99	1.000	2.37e3	5.51e4	2.00	-0.2	1.07	bb
2	200125K1_2	10.0	1.58	NO	38.99	1.000	1.92e4	8.89e4	10.0	-0.0	1.08	bb
3	200125K1_3	100	1.55	NO	38.99	1.000	1.64e5	7.43e4	103	2.5	1.10	bb
4	200125K1_4	250	1.56	NO	39.00	1.001	6.09e5	1.16e5	244	-2.4	1.05	bb
5	200125K1_5	1200	1.54	NO	39.00	1.001	1.96e6	7.98e4	1140	-5.0	1.02	bb
6	200125K1_6	50.0	1.58	NO	38.99	1.000	6.36e4	5.63e4	52.4	4.9	1.13	bb

Compound name: Endosulfan II (beta)

Response Factor: 1.11017

RRF SD: 0.178297, Relative SD: 16.0603

Response type: Internal Std (Ref 51), 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	200125K1_1		1.85	NO	39.73	1.001	4.62e3	1.66e4	12.5	25.3	1.39	bb
2	200125K1_2	15.0	1.85	NO	39.73	1.000	1.03e4	2.59e4	17.9	19.3	1.32	bb

Dataset: U:\VG11.PRO\Results\200125K1\200125K1-CRV.qld

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Compound name: Endosulfan II (beta)

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200125K1_3	100	1.65	NO	39.73	1.000	4.87e4	2.40e4	91.5	-8.5	1.02	bb
4	200125K1_4	250	1.54	NO	39.73	1.000	1.92e5	4.18e4	207	-17.1	0.921	bb
5	200125K1_5	1200	1.53	NO	39.73	1.000	6.42e5	5.23e4	553	-53.9	0.512	bbX
6	200125K1_6	50.0	1.58	NO	39.73	1.001	1.99e4	1.69e4	53.1	6.2	1.18	bb

Compound name: 2,4'-DDD

Response Factor: 1.04824
 RRF SD: 0.0356036, Relative SD: 3.3965
 Response type: Internal Std (Ref 52), 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	200125K1_1		1.47	NO	37.95	1.000	4.14e4	1.07e6	1.85	-7.5	0.970	bb
2	200125K1_2	10.0	1.49	NO	37.94	1.000	3.69e5	1.70e6	10.3	3.3	1.08	bb
3	200125K1_3	100	1.54	NO	37.95	1.000	2.93e6	1.44e6	96.8	-3.2	1.01	bb
4	200125K1_4	250	1.53	NO	37.95	1.000	1.15e7	2.26e6	243	-3.0	1.02	bb
5	200125K1_5	1200	1.53	NO	37.95	1.000	3.82e7	1.53e6	1190	-1.0	1.04	bb
6	200125K1_6	50.0	1.52	NO	37.94	1.000	1.20e6	1.11e6	51.9	3.8	1.09	bb

Compound name: 2,4'-DDT

Response Factor: 1.02896
 RRF SD: 0.041268, Relative SD: 4.01064
 Response type: Internal Std (Ref 53), 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	200125K1_1		1.45	NO	39.08	1.000	2.57e4	6.79e5	1.84	-7.9	0.947	bb
2	200125K1_2	10.0	1.42	NO	39.06	1.000	2.43e5	1.14e6	10.4	4.0	1.07	bd
3	200125K1_3	100	1.52	NO	39.06	1.000	1.99e6	1.01e6	96.1	-3.9	0.989	bd
4	200125K1_4	250	1.54	NO	39.08	1.000	7.57e6	1.52e6	242	-3.2	0.996	MM
5	200125K1_5	1200	1.50	NO	39.08	1.000	2.67e7	1.10e6	1180	-1.5	1.01	bb
6	200125K1_6	50.0	1.47	NO	39.06	1.000	8.18e5	7.61e5	52.3	4.5	1.08	bd

Dataset: U:\VG11.PRO\Results\200125K1\200125K1-CRV.qld

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Compound name: 4,4'-DDD

Response Factor: 1.12418
 RRF SD: 0.046972, Relative SD: 4.17832
 Response type: Internal Std (Ref 54), Area * (IS Conc. / IS Area)
 Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200125K1_1		1.24	NO	39.21	1.001	3.96e4	8.88e5	1.98	-0.9	1.11	bb
200125K1_2	10.0	1.50	NO	39.20	1.000	3.44e5	1.45e6	10.5	5.3	1.18	db
200125K1_3	100	1.54	NO	39.20	1.000	2.76e6	1.27e6	96.9	-3.1	1.09	db
200125K1_4	250	1.52	NO	39.20	1.000	1.07e7	1.97e6	241	-3.7	1.08	bb
200125K1_5	1200	1.51	NO	39.20	1.000	3.73e7	1.42e6	1170	-2.3	1.10	bb
200125K1_6	50.0	1.52	NO	39.20	1.000	1.11e6	9.54e5	51.9	3.8	1.17	db

Compound name: 4,4'-DDT

Response Factor: 1.13363
 RRF SD: 0.0349379, Relative SD: 3.08193
 Response type: Internal Std (Ref 55), Area * (IS Conc. / IS Area)
 Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200125K1_1		1.25	NO	40.28	1.001	2.43e4	5.47e5	1.96	-2.2	1.11	bb
200125K1_2	10.0	1.48	NO	40.27	1.000	2.10e5	9.04e5	10.2	2.5	1.16	bb
200125K1_3	100	1.54	NO	40.27	1.000	1.75e6	7.94e5	97.0	-3.0	1.10	bb
200125K1_4	250	1.54	NO	40.28	1.000	6.80e6	1.24e6	243	-3.0	1.10	bb
200125K1_5	1200	1.53	NO	40.28	1.000	2.46e7	9.05e5	1200	-0.2	1.13	bb
200125K1_6	50.0	1.53	NO	40.27	1.000	7.28e5	6.19e5	51.9	3.7	1.18	bb

Compound name: Endosulfan Sulfate

Response Factor: 0.987135
 RRF SD: 0.0246482, Relative SD: 2.49695
 Response type: Internal Std (Ref 56), Area * (IS Conc. / IS Area)
 Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200125K1_1		1.47	NO	41.45	1.000	5.68e3	2.72e4	10.6	5.9	1.05	bb
200125K1_2	15.0	1.45	NO	41.45	1.000	1.33e4	4.42e4	15.2	1.4	1.00	bb

Dataset: U:\VG11.PRO\Results\200125K1\200125K1-CRV.qld

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Compound name: Endosulfan Sulfate

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200125K1_3	100	1.52	NO	41.45	1.000	6.89e4	3.49e4	99.9	-0.1	0.986	bb
4	200125K1_4	250	1.54	NO	41.47	1.001	2.73e5	5.44e4	254	1.7	1.00	bb
5	200125K1_5	1200	1.55	NO	41.47	1.000	8.97e5	3.96e4	1150	-4.3	0.945	bb
6	200125K1_6	50.0	1.49	NO	41.45	1.000	2.82e4	2.82e4	50.7	1.4	1.00	bb

Compound name: 4,4'-Methoxychlor

Response Factor: 1.26684
 RRF SD: 0.0407232, Relative SD: 3.21456
 Response type: Internal Std (Ref 57), 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	200125K1_1		6.15	NO	43.32	1.000	1.51e5	6.22e6	9.59	-4.1	1.22	bb
2	200125K1_2	15.0	6.15	NO	43.32	1.000	4.08e5	1.04e7	15.5	3.0	1.31	bb
3	200125K1_3	100	5.98	NO	43.32	1.000	2.22e6	9.01e6	97.2	-2.8	1.23	bb
4	200125K1_4	250	5.99	NO	43.34	1.000	8.46e6	1.37e7	243	-2.7	1.23	bb
5	200125K1_5	1200	6.01	NO	43.34	1.000	3.01e7	1.00e7	1180	-1.4	1.25	bb
6	200125K1_6	50.0	6.03	NO	43.32	1.000	9.23e5	7.01e6	51.9	3.9	1.32	bb

Compound name: Mirex

Response Factor: 1.04354
 RRF SD: 0.0357547, Relative SD: 3.42629
 Response type: Internal Std (Ref 58), 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	200125K1_1		1.57	NO	43.90	1.000	1.09e4	2.79e5	1.86	-6.8	0.972	bb
2	200125K1_2	10.0	1.56	NO	43.91	1.001	9.44e4	4.37e5	10.4	3.6	1.08	bb
3	200125K1_3	100	1.55	NO	43.91	1.001	7.71e5	3.85e5	95.9	-4.1	1.00	bb
4	200125K1_4	250	1.55	NO	43.90	1.000	2.71e6	5.29e5	245	-1.9	1.02	bb
5	200125K1_5	1200	1.56	NO	43.90	1.000	9.65e6	3.90e5	1190	-1.1	1.03	bb
6	200125K1_6	50.0	1.58	NO	43.90	1.001	3.33e5	3.08e5	51.8	3.6	1.08	bb

Dataset: U:\VG11.PRO\Results\200125K1\200125K1-CRV.qld

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Compound name: Endrin Aldehyde

Response Factor: 1.05818
 RRF SD: 0.0383086, Relative SD: 3.62024
 Response type: Internal Std (Ref 59), Area * (IS Conc. / IS Area)
 Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200125K1_1		0.63	NO	40.85	1.000	1.18e4	5.31e5	10.5	4.8	1.11	MM
200125K1_2	15.0	0.62	NO	40.85	1.000	2.86e4	8.88e5	15.2	1.6	1.07	MM
200125K1_3	100	0.62	NO	40.85	1.000	1.49e5	7.39e5	95.1	-4.9	1.01	MM
200125K1_4	250	0.63	NO	40.85	1.000	5.87e5	1.14e6	244	-2.4	1.03	MM
200125K1_5	1200	0.62	NO	40.85	1.000	2.07e6	8.04e5	1220	1.4	1.07	bb
200125K1_6	50.0	0.63	NO	40.85	1.000	6.28e4	5.69e5	52.1	4.3	1.10	MM

Compound name: Endrin Ketone

Response Factor: 0.974063
 RRF SD: 0.0321525, Relative SD: 3.30087
 Response type: Internal Std (Ref 60), Area * (IS Conc. / IS Area)
 Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200125K1_1		0.65	NO	44.05	1.001	9.15e3	4.59e5	10.2	2.4	0.998	bb
200125K1_2	15.0	0.66	NO	44.03	1.000	2.33e4	7.73e5	15.5	3.4	1.01	db
200125K1_3	100	0.63	NO	44.03	1.000	1.19e5	6.41e5	95.2	-4.8	0.928	bb
200125K1_4	250	0.62	NO	44.05	1.001	4.60e5	9.61e5	246	-1.7	0.958	db
200125K1_5	1200	0.63	NO	44.05	1.001	1.51e6	6.43e5	1210	0.6	0.979	bb
200125K1_6	50.0	0.60	NO	44.03	1.000	4.92e4	4.93e5	51.2	2.5	0.998	bb

Compound name: 13C6-Hexachlorobenzene

Response Factor: 0.674087
 RRF SD: 0.0027005, Relative SD: 0.400616
 Response type: Internal Std (Ref 62), Area * (IS Conc. / IS Area)
 Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200125K1_1		1.27	NO	22.64	0.871	1.08e6	1.59e6	50.5	1.0	0.681	bb
200125K1_2	50.0	1.27	NO	22.64	0.871	1.59e6	2.37e6	49.8	-0.4	0.671	bb

Dataset: U:\VG11.PRO\Results\200125K1\200125K1-CRV.qld

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Compound name: 13C6-Hexachlorobenzene

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200125K1_3	50.0	1.28	NO	22.65	0.872	1.29e6	1.91e6	50.1	0.2	0.675	bb
4	200125K1_4	50.0	1.28	NO	22.64	0.871	1.98e6	2.95e6	49.8	-0.4	0.672	bb
5	200125K1_5	50.0	1.29	NO	22.65	0.872	1.29e6	1.92e6	50.0	0.0	0.674	bb
6	200125K1_6	50.0	1.27	NO	22.64	0.871	1.03e6	1.51e6	50.3	0.6	0.678	bb

Compound name: 13C6-Alpha-BHC

Response Factor: 0.254768
 RRF SD: 0.00463291, Relative SD: 1.81848
 Response type: Internal Std (Ref 62), 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	200125K1_1		0.80	NO	23.17	0.892	4.07e5	1.59e6	50.4	0.7	0.257	bb
2	200125K1_2	50.0	0.80	NO	23.17	0.892	5.98e5	2.37e6	49.5	-0.9	0.252	bb
3	200125K1_3	50.0	0.80	NO	23.17	0.892	4.93e5	1.91e6	50.6	1.2	0.258	bb
4	200125K1_4	50.0	0.78	NO	23.18	0.892	7.46e5	2.95e6	49.5	-0.9	0.252	bb
5	200125K1_5	50.0	0.78	NO	23.18	0.892	5.01e5	1.92e6	51.3	2.6	0.261	bb
6	200125K1_6	50.0	0.79	NO	23.18	0.892	3.78e5	1.51e6	49.1	-1.9	0.250	bb

Compound name: 13C6-Lindane (gamma)

Response Factor: 0.200677
 RRF SD: 0.00216003, Relative SD: 1.07637
 Response type: Internal Std (Ref 62), 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	200125K1_1		0.79	NO	26.48	1.019	3.08e5	1.59e6	48.3	-3.4	0.194	bb
2	200125K1_2	50.0	0.81	NO	26.48	1.019	4.71e5	2.37e6	49.6	-0.9	0.199	bb
3	200125K1_3	50.0	0.78	NO	26.48	1.019	3.79e5	1.91e6	49.4	-1.2	0.198	bb
4	200125K1_4	50.0	0.79	NO	26.48	1.019	5.99e5	2.95e6	50.5	1.0	0.203	bb
5	200125K1_5	50.0	0.80	NO	26.48	1.019	3.89e5	1.92e6	50.6	1.1	0.203	bb
6	200125K1_6	50.0	0.80	NO	26.48	1.019	3.04e5	1.51e6	50.0	-0.0	0.201	bb

Dataset: U:\VG11.PRO\Results\200125K1\200125K1-CRV.qld

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Compound name: 13C6-Beta-BHC

Response Factor: 0.154634
 RRF SD: 0.00424038, Relative SD: 2.7422
 Response type: Internal Std (Ref 62), Area * (IS Conc. / IS Area)
 Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200125K1_1		0.79	NO	28.53	1.098	2.40e5	1.59e6	48.8	-2.4	0.151	bb
200125K1_2	50.0	0.78	NO	28.53	1.098	3.58e5	2.37e6	48.9	-2.3	0.151	bb
200125K1_3	50.0	0.80	NO	28.53	1.098	2.94e5	1.91e6	49.7	-0.6	0.154	bb
200125K1_4	50.0	0.79	NO	28.53	1.098	4.74e5	2.95e6	51.9	3.8	0.161	bd
200125K1_5	50.0	0.79	NO	28.53	1.098	3.01e5	1.92e6	50.9	1.7	0.157	bd
200125K1_6	50.0	0.78	NO	28.53	1.098	2.28e5	1.51e6	48.7	-2.7	0.151	bb

Compound name: 13C6-Delta-BHC

Response Factor: 0.183006
 RRF SD: 0.00482764, Relative SD: 2.63796
 Response type: Internal Std (Ref 62), Area * (IS Conc. / IS Area)
 Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200125K1_1		0.78	NO	30.20	1.163	2.72e5	1.59e6	46.9	-6.2	0.172	bb
200125K1_2	50.0	0.80	NO	30.20	1.163	4.23e5	2.37e6	48.8	-2.4	0.179	bb
200125K1_3	50.0	0.80	NO	30.21	1.163	3.50e5	1.91e6	50.0	0.0	0.183	bb
200125K1_4	50.0	0.78	NO	30.22	1.163	5.54e5	2.95e6	51.2	2.4	0.187	bb
200125K1_5	50.0	0.79	NO	30.22	1.163	3.61e5	1.92e6	51.4	2.8	0.188	bb
200125K1_6	50.0	0.79	NO	30.20	1.163	2.69e5	1.51e6	48.5	-2.9	0.178	bb

Compound name: 13C10-Heptachlor

Response Factor: 0.105699
 RRF SD: 0.00420388, Relative SD: 3.97723
 Response type: Internal Std (Ref 62), Area * (IS Conc. / IS Area)
 Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200125K1_1		1.27	NO	28.65	1.103	1.52e5	1.59e6	45.3	-9.4	0.0957	bb
200125K1_2	50.0	1.28	NO	28.65	1.103	2.44e5	2.37e6	48.6	-2.7	0.103	bb

Dataset: U:\VG11.PRO\Results\200125K1\200125K1-CRV.qld

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Compound name: 13C10-Heptachlor

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200125K1_3	50.0	1.31	NO	28.65	1.103	1.99e5	1.91e6	49.3	-1.4	0.104	bb
4	200125K1_4	50.0	1.30	NO	28.65	1.103	3.27e5	2.95e6	52.4	4.7	0.111	bb
5	200125K1_5	50.0	1.32	NO	28.66	1.103	2.10e5	1.92e6	51.8	3.6	0.110	bb
6	200125K1_6	50.0	1.32	NO	28.65	1.103	1.53e5	1.51e6	47.9	-4.3	0.101	bb

Compound name: 13C12-Aldrin

Response Factor: 0.130263
 RRF SD: 0.00178091, Relative SD: 1.36717
 Response type: Internal Std (Ref 62), 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	200125K1_1		1.60	NO	30.77	1.184	2.01e5	1.59e6	48.7	-2.5	0.127	bb
2	200125K1_2	50.0	1.64	NO	30.77	1.184	3.07e5	2.37e6	49.7	-0.6	0.130	bb
3	200125K1_3	50.0	1.61	NO	30.76	1.184	2.54e5	1.91e6	51.0	2.0	0.133	bb
4	200125K1_4	50.0	1.66	NO	30.77	1.184	3.87e5	2.95e6	50.3	0.5	0.131	bb
5	200125K1_5	50.0	1.64	NO	30.77	1.184	2.49e5	1.92e6	49.8	-0.4	0.130	bb
6	200125K1_6	50.0	1.64	NO	30.77	1.184	1.94e5	1.51e6	49.2	-1.6	0.128	bb

Compound name: 13C10-Oxychlordan

Response Factor: 0.0313758
 RRF SD: 0.000999045, Relative SD: 3.18413
 Response type: Internal Std (Ref 62), 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	200125K1_1		1.76	NO	33.35	1.284	4.42e4	1.59e6	44.4	-11.1	0.0279	bb
2	200125K1_2	50.0	1.67	NO	33.35	1.284	7.08e4	2.37e6	47.6	-4.7	0.0299	MM
3	200125K1_3	50.0	1.70	NO	33.35	1.284	5.99e4	1.91e6	50.0	-0.1	0.0313	MM
4	200125K1_4	50.0	1.71	NO	33.35	1.284	9.58e4	2.95e6	51.7	3.3	0.0324	MM
5	200125K1_5	50.0	1.58	NO	33.35	1.284	6.16e4	1.92e6	51.2	2.4	0.0321	MM
6	200125K1_6	50.0	1.60	NO	33.35	1.284	4.70e4	1.51e6	49.5	-1.0	0.0311	MM

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Dataset: U:\VG11.PRO\Results\200125K1\200125K1-CRV.qld

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Compound name: 13C10-cis-Heptachlor Epoxide

Response Factor: 0.0404493

RRF SD: 0.00205783, Relative SD: 5.08744

Response type: Internal Std (Ref 62), 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	200125K1_1		1.61	NO	34.14	1.314	5.90e4	1.59e6	45.9	-8.1	0.0372	bb
2	200125K1_2	50.0	1.62	NO	34.14	1.314	9.14e4	2.37e6	47.7	-4.6	0.0386	bb
3	200125K1_3	50.0	1.61	NO	34.14	1.314	7.55e4	1.91e6	48.8	-2.5	0.0395	bb
4	200125K1_4	50.0	1.64	NO	34.14	1.314	1.23e5	2.95e6	51.5	3.0	0.0416	bb
5	200125K1_5	50.0	1.67	NO	34.14	1.314	8.33e4	1.92e6	53.7	7.5	0.0435	bb
6	200125K1_6	50.0	1.69	NO	34.14	1.314	5.91e4	1.51e6	48.3	-3.4	0.0391	bb

Compound name: 13C10-trans-Chlordane (gamma)

Response Factor: 0.0281098

RRF SD: 0.000684159, Relative SD: 2.43388

Response type: Internal Std (Ref 62), 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	200125K1_1		1.55	NO	35.05	1.349	4.25e4	1.59e6	47.7	-4.6	0.0268	bb
2	200125K1_2	50.0	1.58	NO	35.04	1.349	6.53e4	2.37e6	49.0	-2.0	0.0276	bb
3	200125K1_3	50.0	1.74	NO	35.05	1.349	5.32e4	1.91e6	49.5	-1.0	0.0278	bb
4	200125K1_4	50.0	1.74	NO	35.06	1.349	8.60e4	2.95e6	51.8	3.5	0.0291	bb
5	200125K1_5	50.0	2.14	YES	35.06	1.349	6.99e4	1.92e6	64.9	29.8	0.0365	bbX
6	200125K1_6	50.0	1.67	NO	35.05	1.349	4.23e4	1.51e6	49.7	-0.6	0.0279	bb

Compound name: 13C10-trans-Nonachlor

Response Factor: 0.0330011

RRF SD: 0.00238929, Relative SD: 7.24003

Response type: Internal Std (Ref 62), 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	200125K1_1		1.71	NO	35.24	1.356	4.87e4	1.59e6	46.5	-7.0	0.0307	bb
2	200125K1_2	50.0	1.63	NO	35.24	1.356	7.51e4	2.37e6	48.0	-3.9	0.0317	bb

Dataset: U:\VG11.PRO\Results\200125K1\200125K1-CRV.qld

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Compound name: 13C10-trans-Nonachlor

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200125K1_3	50.0	1.64	NO	35.24	1.356	6.43e4	1.91e6	50.9	1.9	0.0336	bb
4	200125K1_4	50.0	1.63	NO	35.24	1.356	9.90e4	2.95e6	50.8	1.6	0.0335	bb
5	200125K1_5	50.0	1.87	NO	35.25	1.357	6.95e4	1.92e6	55.0	9.9	0.0363	bb
6	200125K1_6	50.0	1.58	NO	35.24	1.356	4.52e4	1.51e6	45.3	-9.5	0.0299	bb

Compound name: 13C9-Endosulfan I (alpha)

Response Factor: 0.02193

RRF SD: 0.00174117, Relative SD: 7.93965

Response type: Internal Std (Ref 62), 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	200125K1_1		1.60	NO	35.83	1.379	3.14e4	1.59e6	45.0	-9.9	0.0198	bb
2	200125K1_2	50.0	1.56	NO	35.83	1.379	4.89e4	2.37e6	47.1	-5.9	0.0206	bb
3	200125K1_3	50.0	1.74	NO	35.83	1.379	4.08e4	1.91e6	48.7	-2.6	0.0214	db
4	200125K1_4	50.0	1.70	NO	35.83	1.379	7.23e4	2.95e6	55.9	11.7	0.0245	db
5	200125K1_5	50.0	1.99	YES	35.85	1.380	6.99e4	1.92e6	83.2	66.4	0.0365	MMX
6	200125K1_6	50.0	1.54	NO	35.83	1.379	3.21e4	1.51e6	48.4	-3.2	0.0212	bb

Compound name: 13C12-2,4'-DDE

Response Factor: 0.765322

RRF SD: 0.0231163, Relative SD: 3.02046

Response type: Internal Std (Ref 62), 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	200125K1_1		1.58	NO	35.72	0.996	1.16e6	1.59e6	47.7	-4.5	0.731	bb
2	200125K1_2	50.0	1.57	NO	35.72	0.996	1.76e6	2.37e6	48.6	-2.8	0.744	bb
3	200125K1_3	50.0	1.59	NO	35.72	0.996	1.48e6	1.91e6	50.4	0.8	0.772	bb
4	200125K1_4	50.0	1.58	NO	35.72	0.996	2.29e6	2.95e6	50.7	1.5	0.776	bb
5	200125K1_5	50.0	1.58	NO	35.72	0.996	1.52e6	1.92e6	51.9	3.8	0.795	bb
6	200125K1_6	50.0	1.58	NO	35.72	0.996	1.12e6	1.51e6	48.3	-3.4	0.740	bb

Dataset: U:\VG11.PRO\Results\200125K1\200125K1-CRV.qld

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Compound name: 13C12-4,4'-DDE

Response Factor: 0.555764

RRF SD: 0.0164836, Relative SD: 2.96594

Response type: Internal Std (Ref 62), Area * (IS Conc. / IS Area)

Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200125K1_1		1.58	NO	36.80	1.026	8.27e5	1.59e6	46.9	-6.3	0.521	bb
200125K1_2	50.0	1.58	NO	36.78	1.026	1.28e6	2.37e6	48.7	-2.7	0.541	bb
200125K1_3	50.0	1.58	NO	36.78	1.026	1.07e6	1.91e6	50.2	0.4	0.558	bb
200125K1_4	50.0	1.60	NO	36.80	1.026	1.64e6	2.95e6	50.0	0.1	0.556	bb
200125K1_5	50.0	1.57	NO	36.78	1.025	1.11e6	1.92e6	52.3	4.7	0.582	bb
200125K1_6	50.0	1.58	NO	36.78	1.026	8.20e5	1.51e6	48.8	-2.5	0.542	bb

Compound name: 13C12-Dieldrin

Response Factor: 0.0759012

RRF SD: 0.00187938, Relative SD: 2.47609

Response type: Internal Std (Ref 62), Area * (IS Conc. / IS Area)

Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200125K1_1		1.68	NO	37.28	1.039	1.14e5	1.59e6	47.5	-5.0	0.0721	bb
200125K1_2	50.0	1.60	NO	37.28	1.040	1.77e5	2.37e6	49.2	-1.6	0.0747	bb
200125K1_3	50.0	1.64	NO	37.28	1.040	1.51e5	1.91e6	52.0	4.0	0.0789	bb
200125K1_4	50.0	1.54	NO	37.28	1.039	2.26e5	2.95e6	50.5	0.9	0.0766	bb
200125K1_5	50.0	1.59	NO	37.28	1.039	1.43e5	1.92e6	49.2	-1.6	0.0747	bb
200125K1_6	50.0	1.58	NO	37.28	1.040	1.13e5	1.51e6	49.1	-1.7	0.0746	bb

Compound name: 13C12-Endrin

Response Factor: 0.0476942

RRF SD: 0.00149895, Relative SD: 3.14283

Response type: Internal Std (Ref 62), Area * (IS Conc. / IS Area)

Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200125K1_1		1.69	NO	38.69	1.079	6.78e4	1.59e6	44.8	-10.4	0.0427	bb
200125K1_2	50.0	1.59	NO	38.69	1.079	1.13e5	2.37e6	49.9	-0.2	0.0476	bb

Dataset: U:\VG11.PRO\Results\200125K1\200125K1-CRV.qld

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Compound name: 13C12-Endrin

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200125K1_3	50.0	1.64	NO	38.69	1.079	9.37e4	1.91e6	51.4	2.8	0.0490	bb
4	200125K1_4	50.0	1.63	NO	38.69	1.079	1.42e5	2.95e6	50.5	1.0	0.0482	bb
5	200125K1_5	50.0	1.65	NO	38.69	1.079	9.30e4	1.92e6	50.9	1.7	0.0485	bb
6	200125K1_6	50.0	1.63	NO	38.69	1.079	6.84e4	1.51e6	47.4	-5.3	0.0452	bb

Compound name: 13C10-cis-Nonachlor

Response Factor: 0.0388918
 RRF SD: 0.001762, Relative SD: 4.5305
 Response type: Internal Std (Ref 62), 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	200125K1_1		1.62	NO	38.97	1.086	5.51e4	1.59e6	44.7	-10.7	0.0347	bb
2	200125K1_2	50.0	1.60	NO	38.97	1.087	8.89e4	2.37e6	48.2	-3.5	0.0375	bb
3	200125K1_3	50.0	1.59	NO	38.97	1.087	7.43e4	1.91e6	49.9	-0.1	0.0388	bb
4	200125K1_4	50.0	1.61	NO	38.97	1.086	1.16e5	2.95e6	50.5	0.9	0.0393	db
5	200125K1_5	50.0	1.77	NO	38.97	1.086	7.98e4	1.92e6	53.5	7.1	0.0416	bb
6	200125K1_6	50.0	1.65	NO	38.97	1.087	5.63e4	1.51e6	47.8	-4.3	0.0372	bb

Compound name: 13C9-Endosulfan II

Response Factor: 0.0121897
 RRF SD: 0.00148309, Relative SD: 12.1668
 Response type: Internal Std (Ref 62), 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	200125K1_1		1.53	NO	39.70	1.107	1.66e4	1.59e6	42.9	-14.2	0.0105	bb
2	200125K1_2	50.0	1.56	NO	39.72	1.107	2.59e4	2.37e6	44.8	-10.4	0.0109	bb
3	200125K1_3	50.0	1.64	NO	39.72	1.107	2.40e4	1.91e6	51.4	2.9	0.0125	bb
4	200125K1_4	50.0	1.90	NO	39.72	1.107	4.18e4	2.95e6	58.0	16.0	0.0141	bb
5	200125K1_5	50.0	2.09	YES	39.72	1.107	5.23e4	1.92e6	112	123.7	0.0273	MMX
6	200125K1_6	50.0	1.67	NO	39.70	1.107	1.69e4	1.51e6	45.8	-8.5	0.0112	bb

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Dataset: U:\VG11.PRO\Results\200125K1\200125K1-CRV.qld

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Compound name: 13C12-2,4'-DDD

Response Factor: 0.754394

RRF SD: 0.0318454, Relative SD: 4.22132

Response type: Internal Std (Ref 62), Area * (IS Conc. / IS Area)

Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1:200125K1_1		1.59	NO	37.94	1.460	1.07e6	1.59e6	44.6	-10.9	0.672	bb
2:200125K1_2	50.0	1.57	NO	37.92	1.460	1.70e6	2.37e6	47.6	-4.7	0.719	bb
3:200125K1_3	50.0	1.60	NO	37.94	1.460	1.44e6	1.91e6	50.0	0.0	0.755	bb
4:200125K1_4	50.0	1.59	NO	37.94	1.460	2.26e6	2.95e6	50.8	1.6	0.766	bb
5:200125K1_5	50.0	1.57	NO	37.94	1.460	1.53e6	1.92e6	53.1	6.1	0.800	bb
6:200125K1_6	50.0	1.59	NO	37.92	1.460	1.11e6	1.51e6	48.5	-3.0	0.732	bb

Compound name: 13C12-2,4'-DDT

Response Factor: 0.519269

RRF SD: 0.0341364, Relative SD: 6.57394

Response type: Internal Std (Ref 62), Area * (IS Conc. / IS Area)

Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1:200125K1_1		1.83	NO	39.06	1.504	6.79e5	1.59e6	41.2	-17.6	0.428	bd
2:200125K1_2	50.0	1.81	NO	39.06	1.504	1.14e6	2.37e6	46.2	-7.6	0.480	bd
3:200125K1_3	50.0	1.83	NO	39.06	1.504	1.01e6	1.91e6	50.8	1.6	0.527	bd
4:200125K1_4	50.0	1.82	NO	39.06	1.504	1.52e6	2.95e6	49.5	-0.9	0.514	bd
5:200125K1_5	50.0	1.82	NO	39.06	1.504	1.10e6	1.92e6	55.1	10.1	0.572	bd
6:200125K1_6	50.0	1.83	NO	39.05	1.503	7.61e5	1.51e6	48.4	-3.1	0.503	bd

Compound name: 13C12-4,4'-DDD

Response Factor: 0.662419

RRF SD: 0.0481815, Relative SD: 7.27357

Response type: Internal Std (Ref 62), Area * (IS Conc. / IS Area)

Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1:200125K1_1		1.60	NO	39.18	1.508	8.88e5	1.59e6	42.2	-15.5	0.560	db
2:200125K1_2	50.0	1.59	NO	39.18	1.508	1.45e6	2.37e6	46.3	-7.4	0.613	db

Dataset: U:\VG11.PRO\Results\200125K1\200125K1-CRV.qld

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Compound name: 13C12-4,4'-DDD

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200125K1_3	50.0	1.60	NO	39.18	1.508	1.27e6	1.91e6	50.0	-0.0	0.662	db
4	200125K1_4	50.0	1.62	NO	39.18	1.508	1.97e6	2.95e6	50.3	0.7	0.667	db
5	200125K1_5	50.0	1.59	NO	39.18	1.508	1.42e6	1.92e6	55.8	11.5	0.739	db
6	200125K1_6	50.0	1.60	NO	39.18	1.508	9.54e5	1.51e6	47.6	-4.8	0.630	db

Compound name: 13C12-4,4'-DDT

Response Factor: 0.419275

RRF SD: 0.032986, Relative SD: 7.86739

Response type: Internal Std (Ref 62), 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	200125K1_1		1.62	NO	40.25	1.549	5.47e5	1.59e6	41.1	-17.7	0.345	bb
2	200125K1_2	50.0	1.60	NO	40.25	1.549	9.04e5	2.37e6	45.5	-9.1	0.381	bb
3	200125K1_3	50.0	1.63	NO	40.25	1.549	7.94e5	1.91e6	49.5	-1.0	0.415	bb
4	200125K1_4	50.0	1.63	NO	40.27	1.550	1.24e6	2.95e6	49.9	-0.2	0.419	bb
5	200125K1_5	50.0	1.59	NO	40.27	1.550	9.05e5	1.92e6	56.3	12.6	0.472	bb
6	200125K1_6	50.0	1.63	NO	40.25	1.549	6.19e5	1.51e6	48.8	-2.4	0.409	bb

Compound name: 13C9-Endosulfan Sulfate

Response Factor: 0.0189184

RRF SD: 0.000974443, Relative SD: 5.15078

Response type: Internal Std (Ref 62), 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	200125K1_1		1.52	NO	41.44	1.155	2.72e4	1.59e6	45.2	-9.5	0.0171	bb
2	200125K1_2	50.0	1.54	NO	41.44	1.155	4.42e4	2.37e6	49.3	-1.4	0.0186	bb
3	200125K1_3	50.0	1.56	NO	41.44	1.155	3.49e4	1.91e6	48.3	-3.5	0.0183	bb
4	200125K1_4	50.0	1.56	NO	41.44	1.155	5.44e4	2.95e6	48.7	-2.6	0.0184	bb
5	200125K1_5	50.0	1.52	NO	41.45	1.155	3.96e4	1.92e6	54.6	9.1	0.0206	bb
6	200125K1_6	50.0	1.77	NO	41.44	1.155	2.82e4	1.51e6	49.2	-1.6	0.0186	bb

Dataset: U:\VG11.PRO\Results\200125K1\200125K1-CRV.qld

Last Altered: Monday, January 27, 2020 09:02:26 Pacific Standard Time
 Printed: Monday, January 27, 2020 09:10:05 Pacific Standard Time

Compound name: 13C12-Methoxychlor

Response Factor: 0.472511
 RRF SD: 0.030676, Relative SD: 6.49213
 Response type: Internal Std (Ref 62), Area * (IS Conc. / IS Area)
 Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200125K1_1		22.08	NO	43.32	1.208	6.22e6	1.59e6	415	-17.0	0.392	bb
200125K1_2	500	23.75	NO	43.32	1.208	1.04e7	2.37e6	466	-6.9	0.440	bb
200125K1_3	500	23.77	NO	43.31	1.208	9.01e6	1.91e6	499	-0.3	0.471	bb
200125K1_4	500	23.54	NO	43.32	1.207	1.37e7	2.95e6	492	-1.6	0.465	bb
200125K1_5	500	24.25	NO	43.32	1.207	1.00e7	1.92e6	554	10.7	0.523	bb
200125K1_6	500	23.73	NO	43.31	1.208	7.01e6	1.51e6	490	-1.9	0.463	bb

Compound name: 13C10-Mirex

Response Factor: 0.194392
 RRF SD: 0.0117794, Relative SD: 6.05964
 Response type: Internal Std (Ref 62), Area * (IS Conc. / IS Area)
 Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200125K1_1		1.55	NO	43.89	1.223	2.79e5	1.59e6	45.2	-9.5	0.176	bb
200125K1_2	50.0	1.55	NO	43.87	1.223	4.37e5	2.37e6	47.4	-5.2	0.184	bd
200125K1_3	50.0	1.58	NO	43.87	1.223	3.85e5	1.91e6	51.8	3.7	0.202	bd
200125K1_4	50.0	1.58	NO	43.89	1.223	5.29e5	2.95e6	46.1	-7.8	0.179	bd
200125K1_5	50.0	1.58	NO	43.89	1.223	3.90e5	1.92e6	52.3	4.6	0.203	bd
200125K1_6	50.0	1.58	NO	43.87	1.223	3.08e5	1.51e6	52.4	4.8	0.204	bb

Compound name: 13C12-Endrin Aldehyde

Response Factor: 0.0388433
 RRF SD: 0.00180374, Relative SD: 4.64362
 Response type: Internal Std (Ref 62), Area * (IS Conc. / IS Area)
 Curve type: RF

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200125K1_1		0.48	NO	40.84	1.138	5.31e5	1.59e6	431	-13.8	0.0335	MM
200125K1_2	500	0.48	NO	40.84	1.139	8.88e5	2.37e6	482	-3.5	0.0375	MM

Dataset: U:\VG11.PRO\Results\200125K1\200125K1-CRV.qld

Last Altered: Monday, January 27, 2020 09:02:26 Pacific Standard Time
 Printed: Monday, January 27, 2020 09:10:05 Pacific Standard Time

Compound name: 13C12-Endrin Aldehyde

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200125K1_3	500	0.48	NO	40.84	1.139	7.39e5	1.91e6	498	-0.5	0.0387	MM
4	200125K1_4	500	0.46	NO	40.84	1.138	1.14e6	2.95e6	496	-0.8	0.0385	MM
5	200125K1_5	500	0.47	NO	40.84	1.138	8.04e5	1.92e6	540	7.9	0.0419	bb
6	200125K1_6	500	0.47	NO	40.84	1.139	5.69e5	1.51e6	484	-3.2	0.0376	MM

Compound name: 13C12-Endrin Ketone

Response Factor: 0.032955

RRF SD: 0.000524904, Relative SD: 1.59279

Response type: Internal Std (Ref 62), 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	200125K1_1		0.47	NO	44.01	1.227	4.59e5	1.59e6	439	-12.3	0.0289	bb
2	200125K1_2	500	0.50	NO	44.02	1.227	7.73e5	2.37e6	495	-1.1	0.0326	bb
3	200125K1_3	500	0.49	NO	44.02	1.227	6.41e5	1.91e6	508	1.7	0.0335	bb
4	200125K1_4	500	0.48	NO	44.01	1.227	9.61e5	2.95e6	493	-1.3	0.0325	bb
5	200125K1_5	500	0.47	NO	44.01	1.227	6.43e5	1.92e6	509	1.8	0.0335	db
6	200125K1_6	500	0.50	NO	44.01	1.227	4.93e5	1.51e6	495	-1.1	0.0326	bb

Compound name: 13C-PCB-15

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 62), 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	200125K1_1		1.58	NO	25.98	1.000	1.59e6	1.59e6	50.0	0.0	1.00	bb
2	200125K1_2	50.0	1.57	NO	25.98	1.000	2.37e6	2.37e6	50.0	0.0	1.00	bb
3	200125K1_3	50.0	1.57	NO	25.98	1.000	1.91e6	1.91e6	50.0	0.0	1.00	bb
4	200125K1_4	50.0	1.58	NO	25.98	1.000	2.95e6	2.95e6	50.0	0.0	1.00	bb
5	200125K1_5	50.0	1.57	NO	25.98	1.000	1.92e6	1.92e6	50.0	0.0	1.00	bb
6	200125K1_6	50.0	1.59	NO	25.98	1.000	1.51e6	1.51e6	50.0	0.0	1.00	bb

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

Printed: Monday, January 27, 2020 09:16:16 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1699rrt-01-25-2020.mdb 25 Jan 2020 13:55:51

Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-1-25-20-LIMITED.cdb 27 Jan 2020 09:02:26

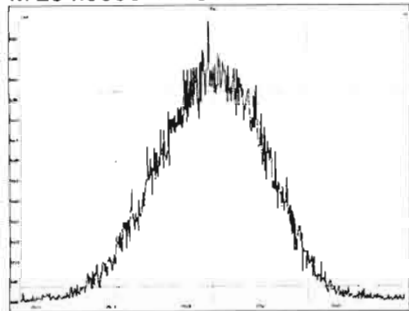
Compound name: Hexachlorobutadiene

	Name	ID	Acq.Date	Acq.Time
1	200125K1_1	ST200125K1-1 1699 CS1 19K1307	25-Jan-20	13:03:00
2	200125K1_2	ST200125K1-2 1699 CS2 19K1308	25-Jan-20	13:58:18
3	200125K1_3	ST200125K1-3 1699 CS3.5 19K1310	25-Jan-20	14:45:00
4	200125K1_4	ST200125K1-4 1699 CS4 19K1311	25-Jan-20	15:34:14
5	200125K1_5	ST200125K1-5 1699 CS5 19K1312	25-Jan-20	16:23:25
6	200125K1_6	ST200125K1-6 1699 CS3 19K1309	25-Jan-20	17:12:38
7	200125K1_7	SS200125K1-1 1699 SS 19H0208	25-Jan-20	18:01:50
8	200125K1_8	GC200125K1-1 GC BREAK	25-Jan-20	18:51:12
9	200125K1_9	B9L0269-BS7 OPR 1	25-Jan-20	19:41:10
10	200125K1_10	B9L0288-BS8 OPR 1	25-Jan-20	20:29:22
11	200125K1_11	B0A0032-BS1 OPR 1	25-Jan-20	21:18:29
12	200125K1_12	B9L0270-BS1 OPR 1	25-Jan-20	22:09:02
13	200125K1_13	SOLVENT BLANK	25-Jan-20	22:58:08
14	200125K1_14	B9L0270-BLK1 Method Blank 1	25-Jan-20	23:46:59
15	200125K1_15	B9L0269-BLK1 Method Blank 1	26-Jan-20	00:35:09
16	200125K1_16	B0A0032-BLK1 Method Blank 1	26-Jan-20	01:25:42
17	200125K1_17	1904235-01RE1 WPD-27777 DOM-OF-001 (S...	26-Jan-20	02:14:33
18	200125K1_18	1904016-06RE2@20X PDI-141RAB-10-17.7-1...	26-Jan-20	03:02:51
19	200125K1_19	1904021-01RE1@20X PDI-1142RAB-20-30.4-...	26-Jan-20	03:52:03
20	200125K1_20	1904021-04RE2@20X PDI-142RAB-20-30.4-1...	26-Jan-20	04:41:17

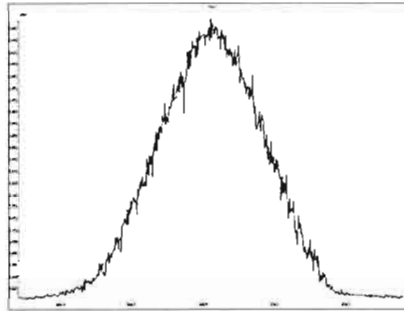
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Printed: Saturday, January 25, 2020 12:59:31 Pacific Standard Time

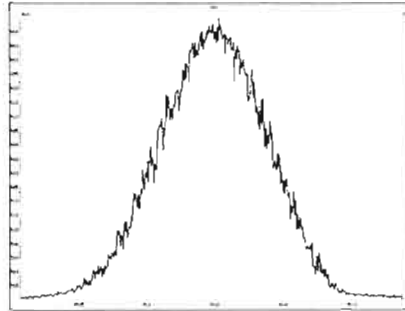
M 254.9856 R 7936



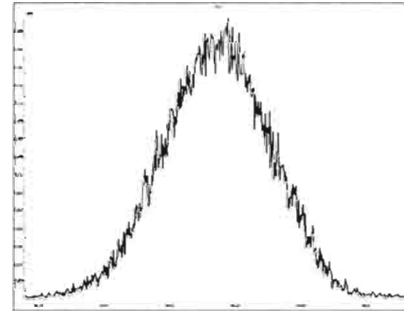
M 268.9824 R 7984



M 280.9824 R 8038



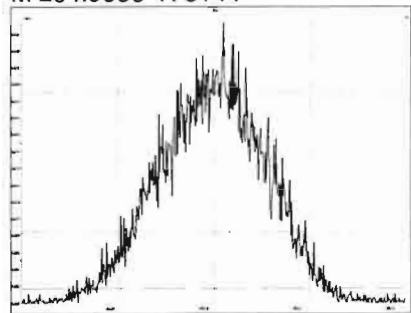
M 292.9824 R 8195



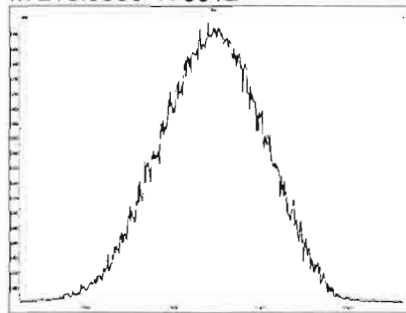
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Printed: Saturday, January 25, 2020 13:00:08 Pacific Standard Time

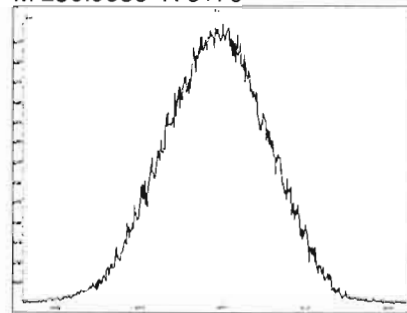
M 204.9888 R 8144



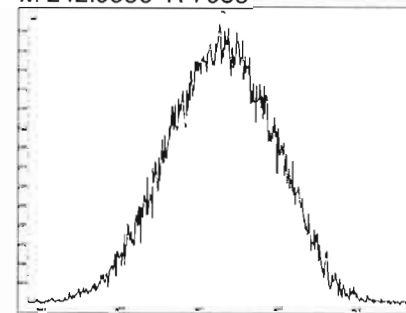
M 218.9856 R 8012



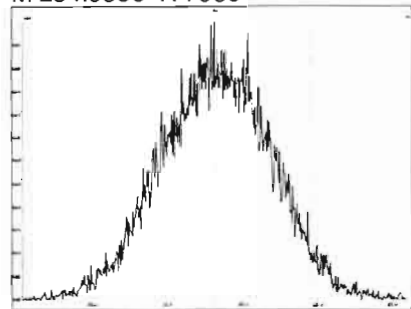
M 230.9856 R 8170



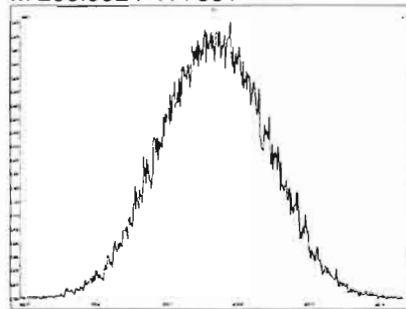
M 242.9856 R 7935



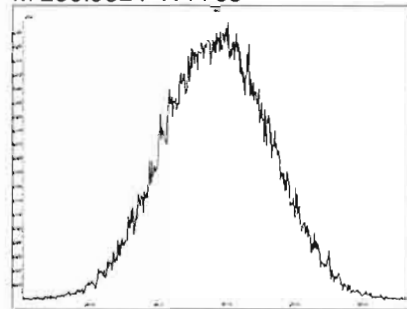
M 254.9856 R 7986



M 268.9824 R 7551



M 280.9824 R 7765



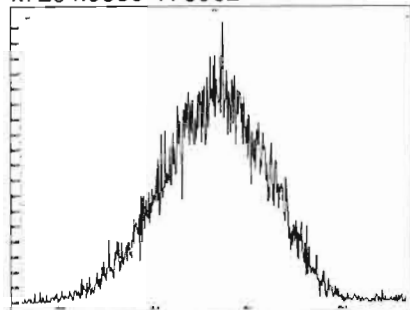
Experiment Calibration Report

MassLynx 4.1 SCN815

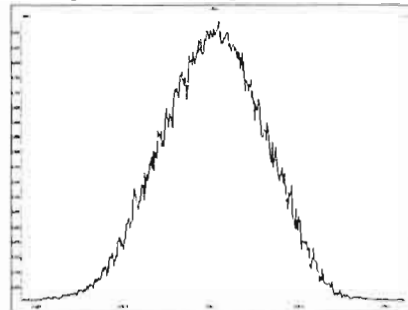
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Printed: Saturday, January 25, 2020 13:00:51 Pacific Standard Time

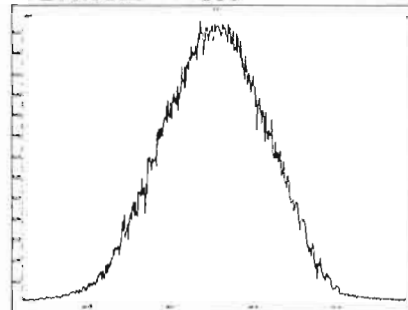
M 204.9888 R 8562



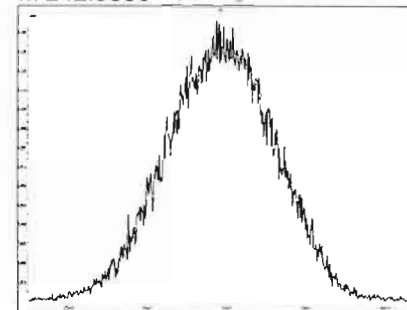
M 218.9856 R 8143



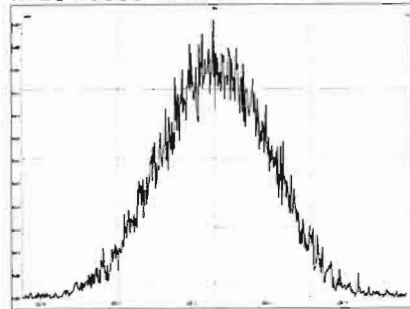
M 230.9856 R 7835



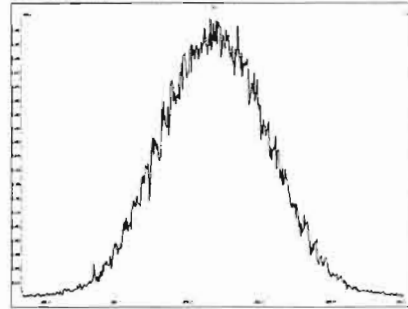
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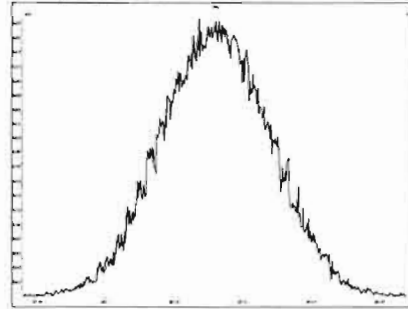
M 254.9856 R 7911



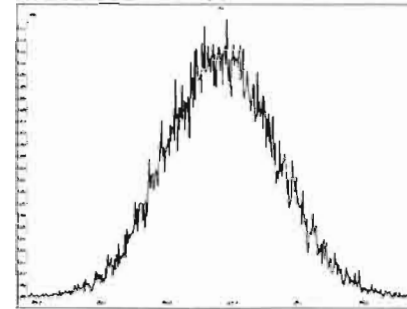
M 268.9824 R 7601



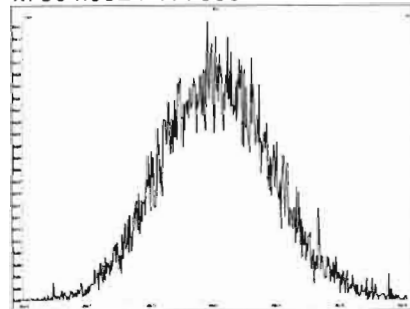
M 280.9824 R 7765



M 292.9824 R 7692



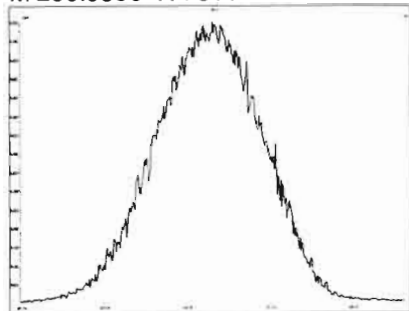
M 304.9824 R 7986



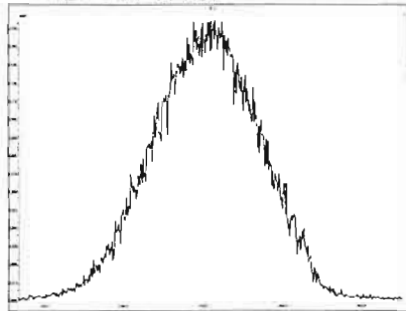
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Printed: Saturday, January 25, 2020 13:01:44 Pacific Standard Time

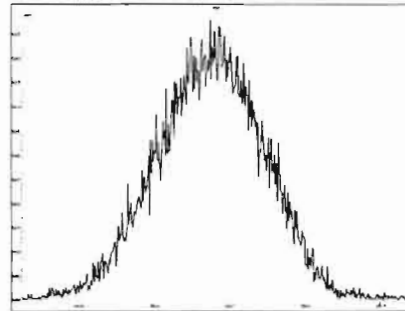
M 230.9856 R 7811



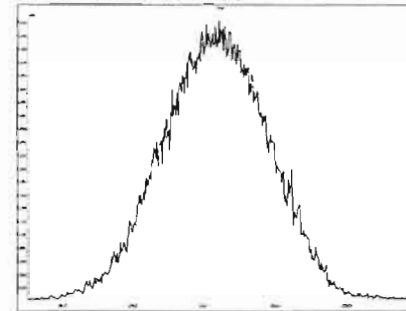
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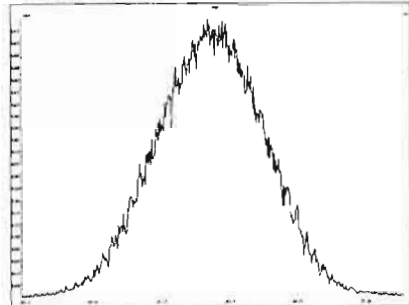
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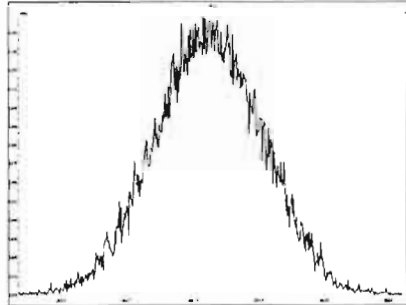
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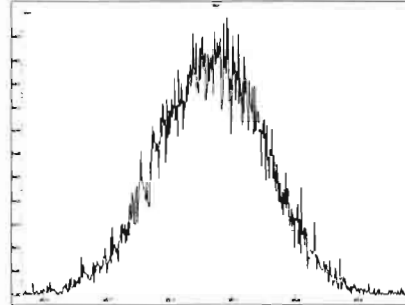
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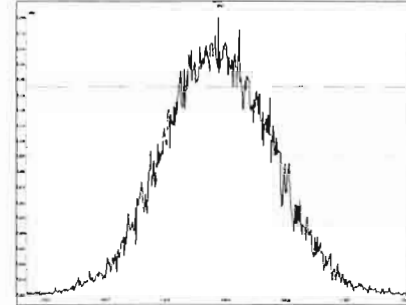
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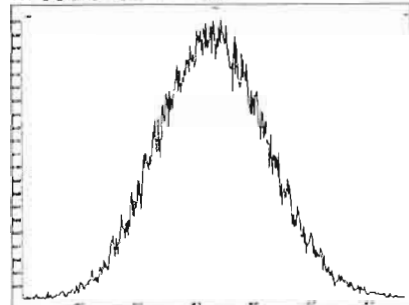
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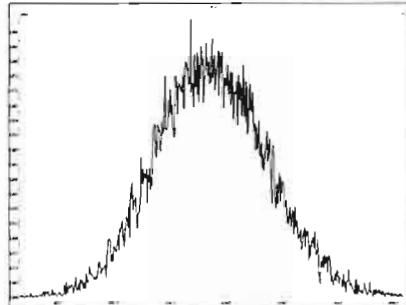
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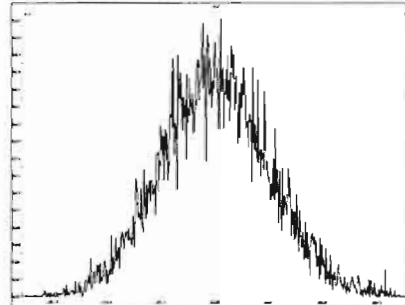
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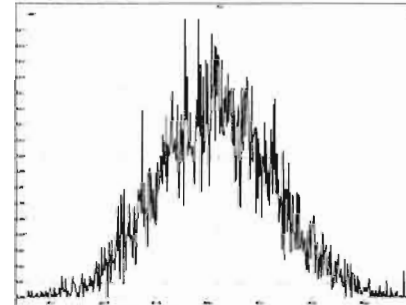
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M 354.9792 R 7986



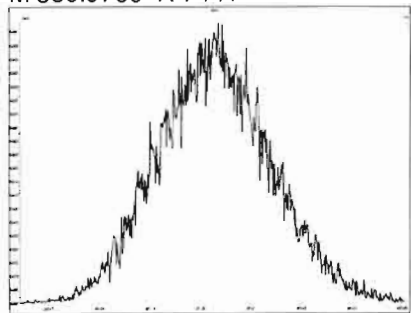
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Printed: Saturday, January 25, 2020 13:01:44 Pacific Standard Time

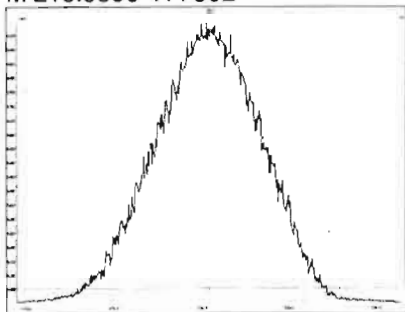
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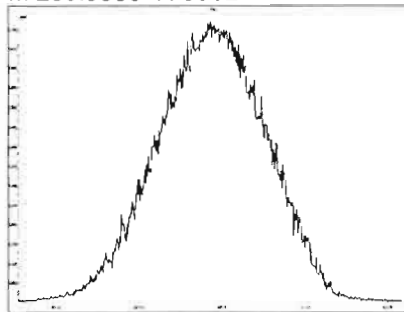
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Printed: Saturday, January 25, 2020 13:02:30 Pacific Standard Time

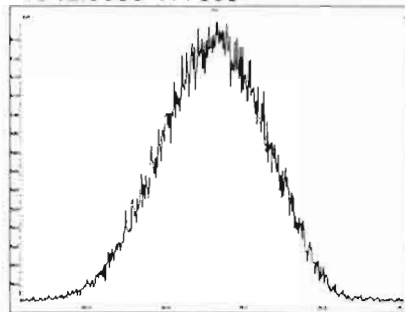
M 218.9856 R 7862



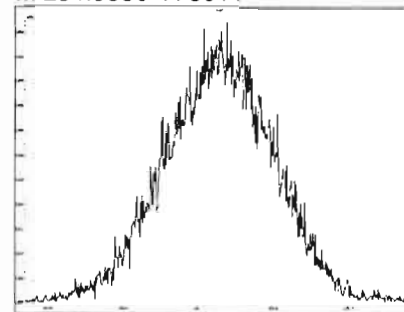
M 230.9856 R 8012



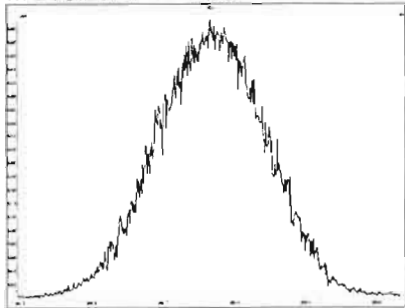
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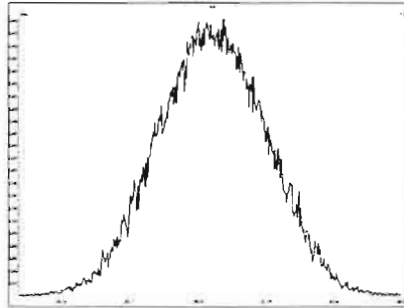
M 254.9856 R 8011



M 268.9824 R 7788



M 280.9824 R 7574



Dataset: U:\VG11.PRO\Results\200125K1\200125K1-8.qld

Last Altered: Monday, January 27, 2020 09:06:14 Pacific Standard Time

Printed: Monday, January 27, 2020 09:06:33 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1699_GC-break.mdb 26 Jan 2020 09:58:44

Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-1-25-20-LIMITED.cdb 27 Jan 2020 09:02:26

Name: 200125K1_8, Date: 25-Jan-2020, Time: 18:51:12, ID: GC200125K1-1 GC BREAK, Description: GC BREAK

#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	1 Endrin Aldehyde	1.05e4	0.62	NO		1.000	40.85	0.000				
2	2 Endrin Ketone	9.78e3	0.63	NO		1.000	44.03	0.000				
3	3 Endrin	3.98e5	1.59	NO		1.000	38.71	0.000				
4	4 4,4'-DDE			NO		1.000						
5	5 4,4'-DDD	4.74e4	1.38	NO		1.000	39.20	0.000				
6	6 4,4'-DDT	8.20e6	1.53	NO		1.000	40.27	0.000				

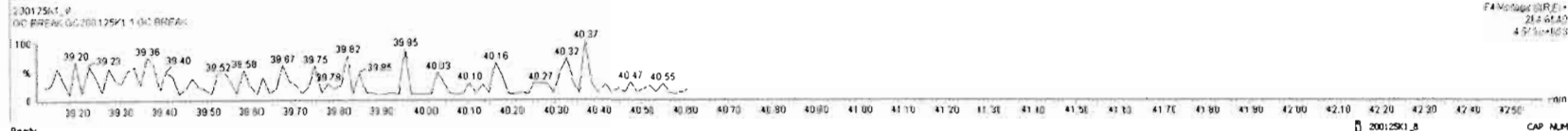
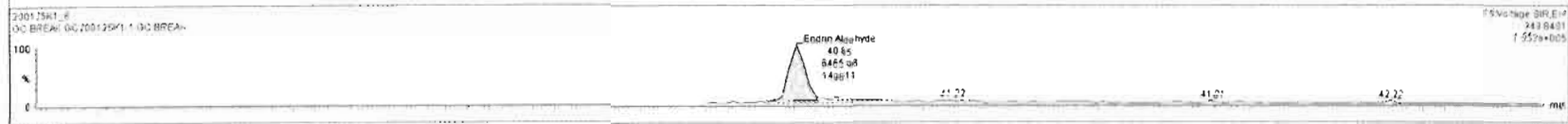
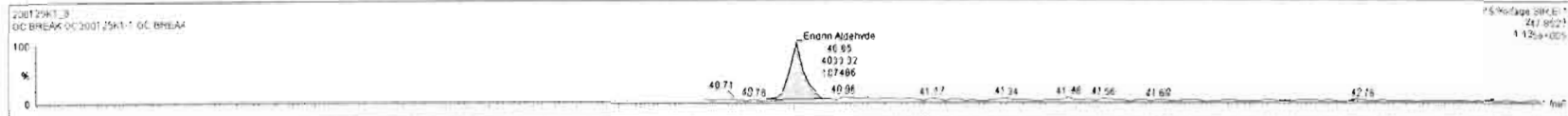
$$\frac{EA + EK}{E} \times 100\% = 5.10\%$$

HC 1-27-2020

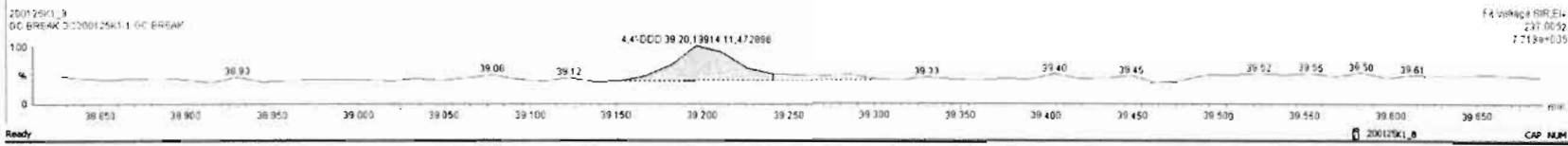
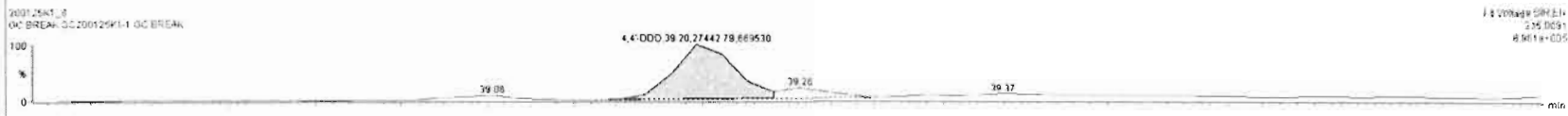
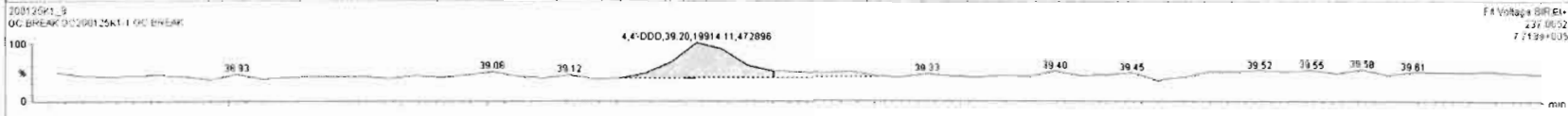
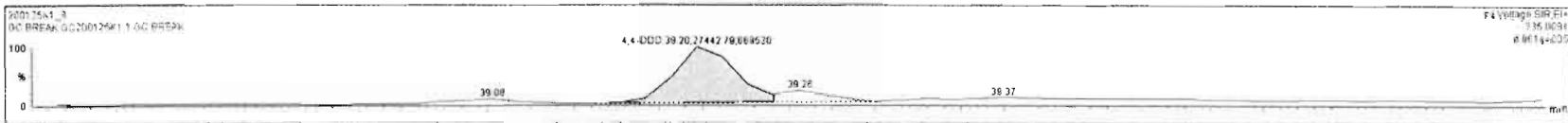
C701/27/2020

$$\frac{DDE + DDD}{DDT} \times 100\% = 0.58\%$$

#	Name	Resp	RA	inj	RRF	wtAnd	RT	RT1	Conc.	%Rec	DL	EMPC
1	Endrin Aldehyde	1.05e4	0.82	NO		1.000	40.85	0.000				
2	Endrin Ketone	9.78e3	0.63	NO		1.000	44.03	0.000				
3	Endrin	3.38e5	1.59	NO		1.000	39.71	0.000				
4	4,4'-DDE	3.00e3		NO		1.000	36.81	0.000				
5	4,4'-DDD	5.52e4	1.35	NO		1.000	39.20	0.000				
6	4,4'-DDT	8.18e4	1.53	NO		1.000	40.27	0.000				
7	PFK4					1.000						
8	PFK5											



Name	Peak	RA	dy	RF	wRet	RT	RET	Conc	%Rec	DL	EMPC
1 Enam Aldehyde	1.054	0.62	NO		1.000	40.85	0.000				
2 Enam Ketone	3.75e-1	0.63	NO		1.000	44.03	0.000				
3 Enam	3.90e-5	1.58	NO		1.000	38.71	0.000				
4 4'-DDE			NO		1.000						
5 4'-DDD	4.74e4	1.39	NO		1.000	39.20	0.000				
6 4'-DDT	6.20e6	1.53	NO		1.000	40.27	0.000				
7 PFK4											
8 PFK5											



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:07:33 Pacific Standard Time

Printed: Monday, January 27, 2020 09:07:49 Pacific Standard Time

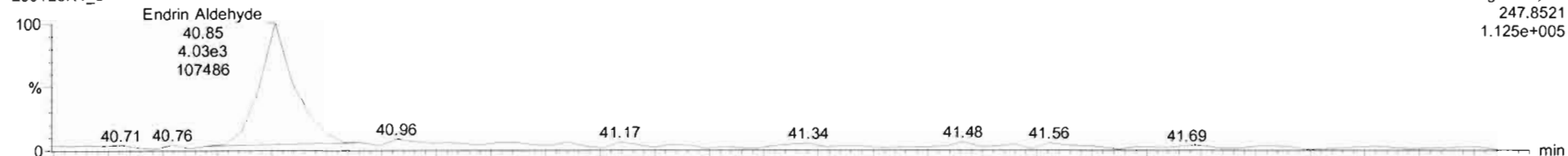
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Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-1-25-20-LIMITED.cdb 27 Jan 2020 09:02:26

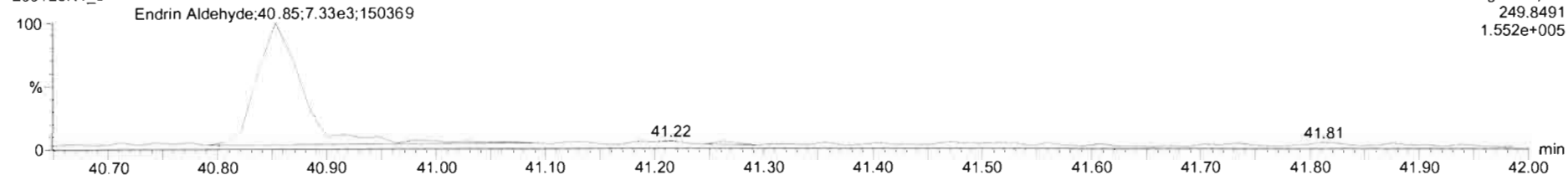
Name: 200125K1_8, Date: 25-Jan-2020, Time: 18:51:12, ID: GC200125K1-1 GC BREAK, Description: GC BREAK

Endrin Aldehyde

200125K1_8

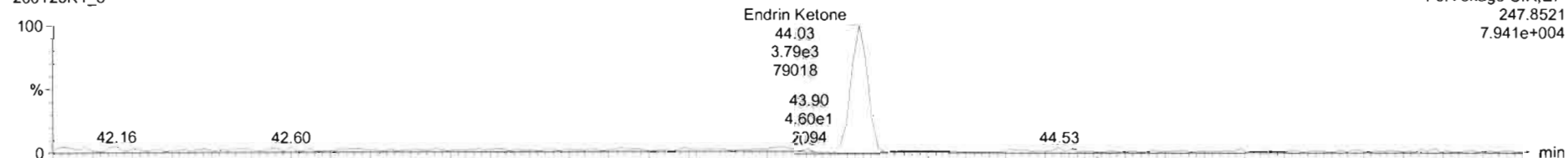


200125K1_8

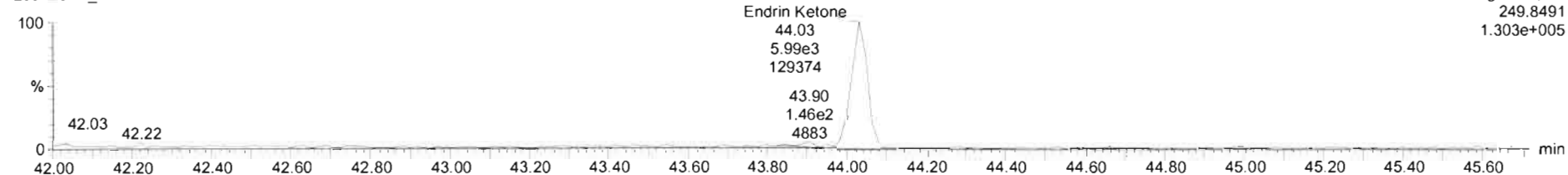


Endrin Ketone

200125K1_8



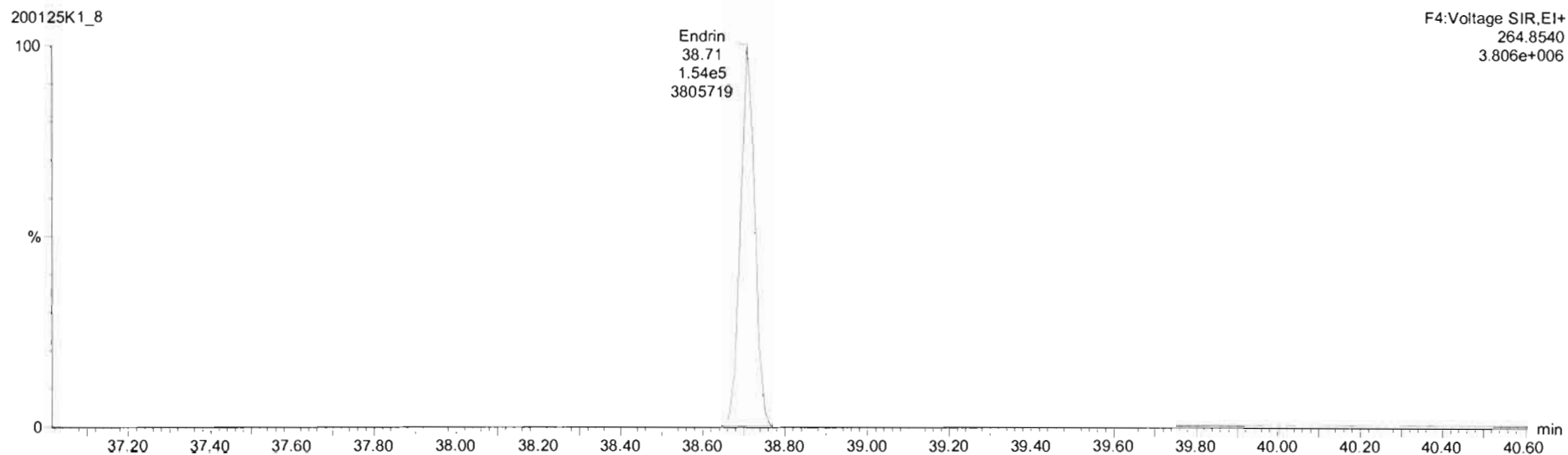
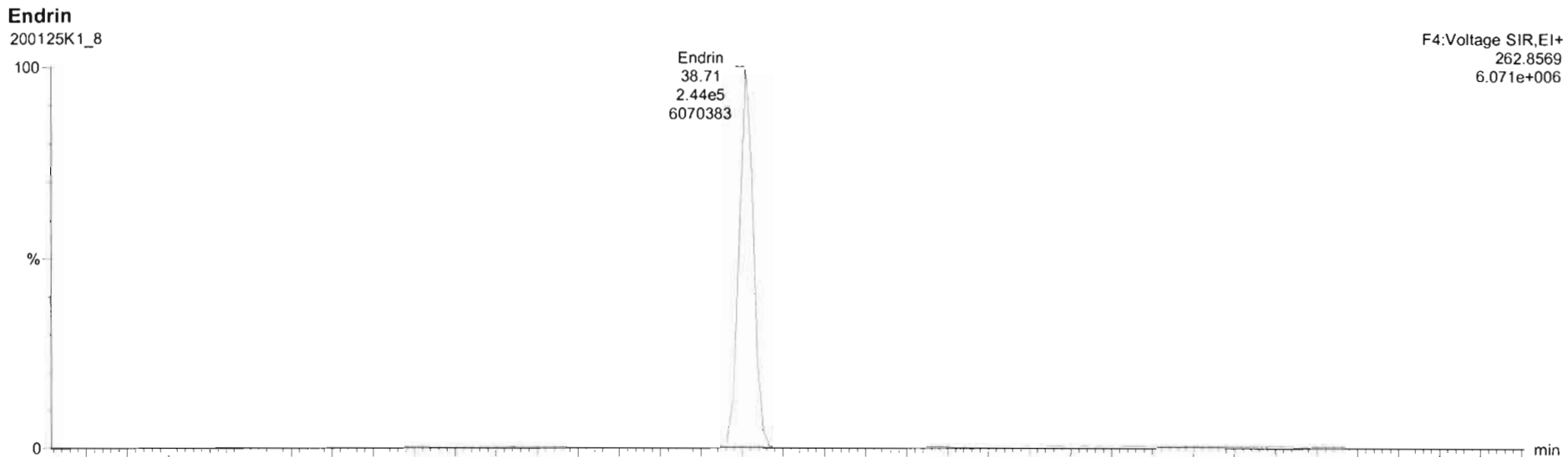
200125K1_8



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:07:33 Pacific Standard Time
Printed: Monday, January 27, 2020 09:07:49 Pacific Standard Time

Name: 200125K1_8, Date: 25-Jan-2020, Time: 18:51:12, ID: GC200125K1-1 GC BREAK, Description: GC BREAK



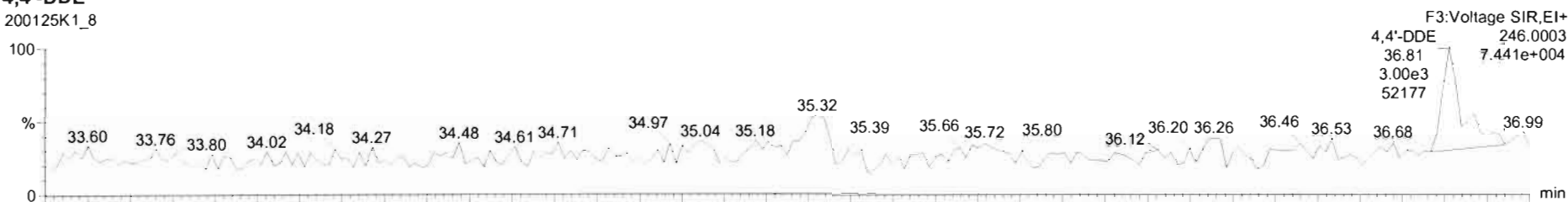
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Printed: Monday, January 27, 2020 09:07:49 Pacific Standard Time

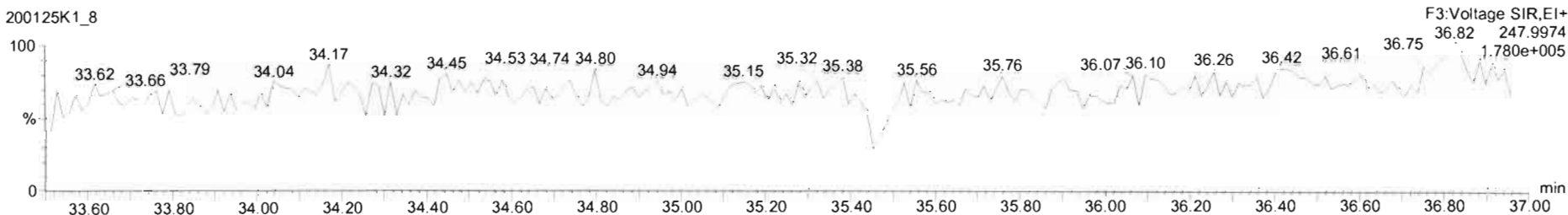
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4,4'-DDE

200125K1_8

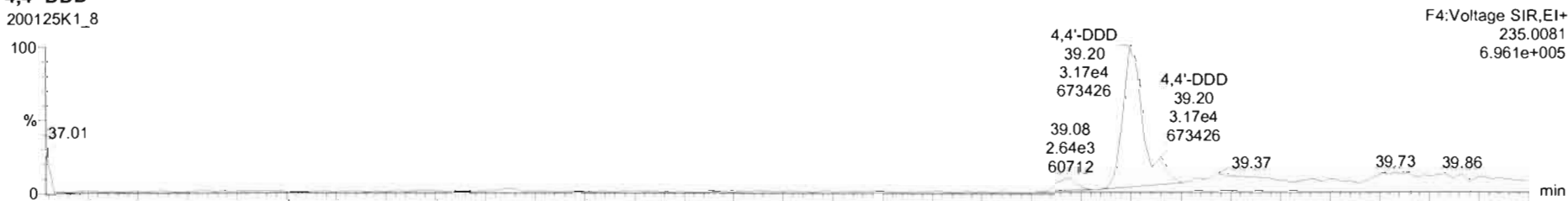


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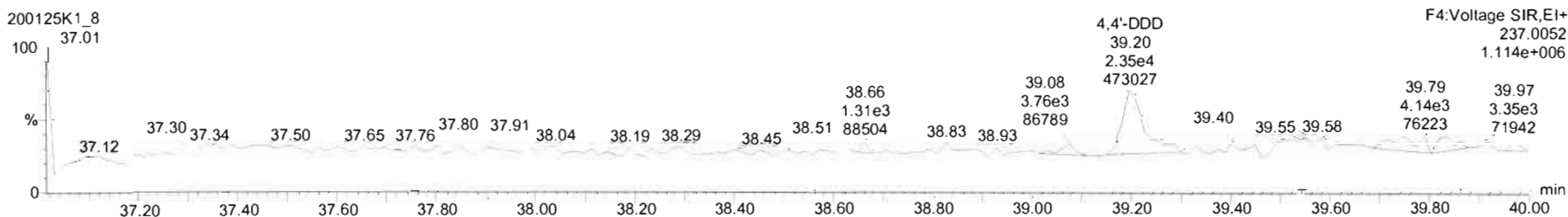


4,4'-DDD

200125K1_8



200125K1_8



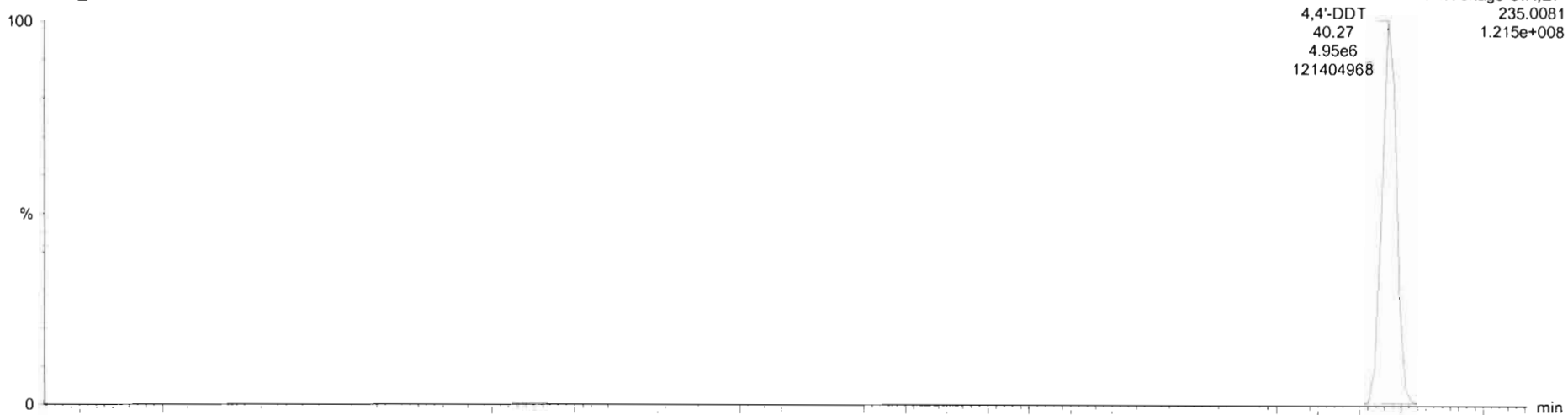
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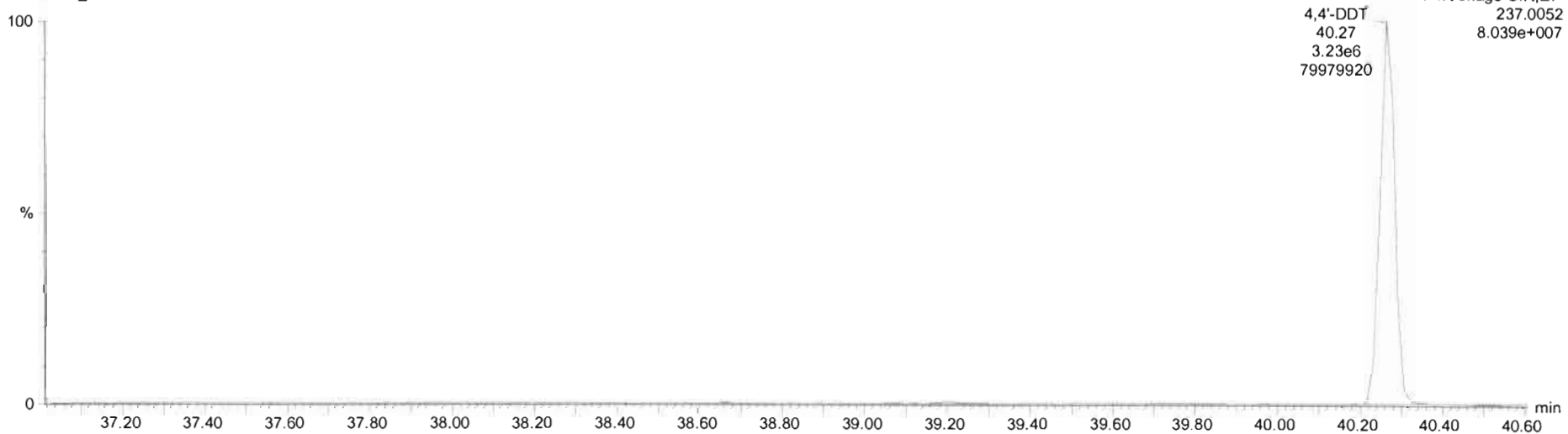
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4,4'-DDT

200125K1_8



200125K1_8



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

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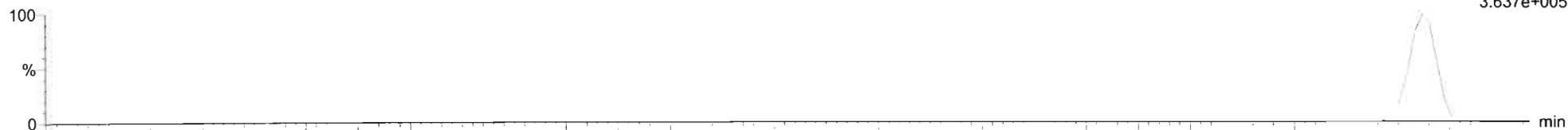
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Name: 200125K1_1, Date: 25-Jan-2020, Time: 13:03:00, ID: ST200125K1-1 1699 CS1 19K1307, Description: 1699 CS1 19K1307

Hexachlorobenzene

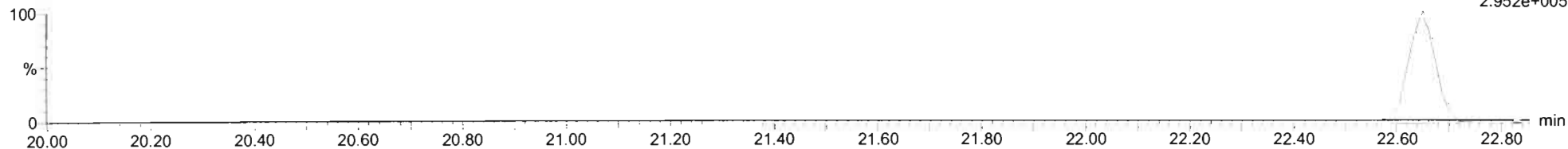
200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

F1:Voltage SIR,EI+
Hexachlorobenzene;22.65;2.26e4;362763;bb;1042.82
283.8102
3.637e+005



200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

F1:Voltage SIR,EI+
Hexachlorobenzene;22.65;1.75e4;294561;bb;636.86
285.8072
2.952e+005



13C6-Hexachlorobenzene

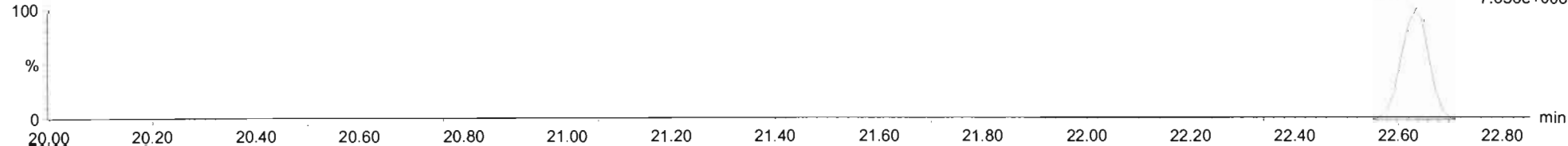
200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

F1:Voltage SIR,EI+
13C6-Hexachlorobenzene;22.63;6.04e5;9722944;bb;40951.37
289.8303
9.739e+006



200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

F1:Voltage SIR,EI+
13C6-Hexachlorobenzene;22.63;4.76e5;7644811;bb;12045.59
291.8273
7.656e+006



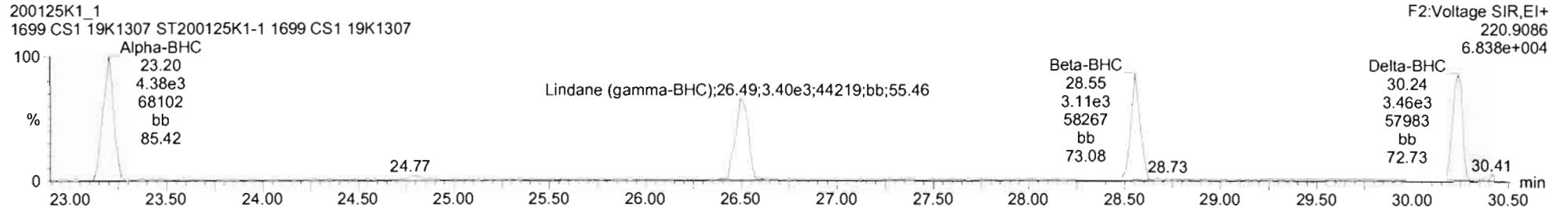
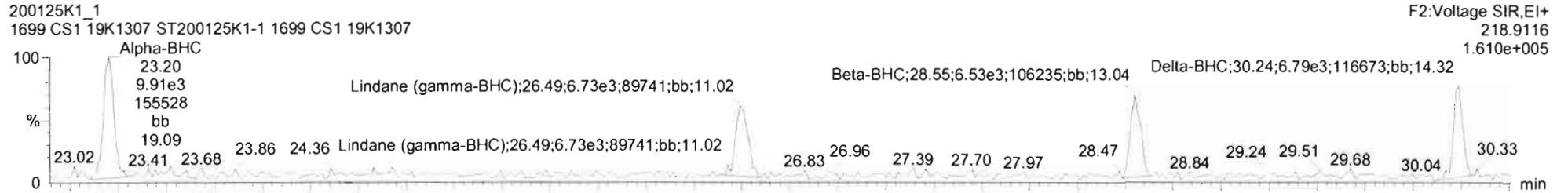
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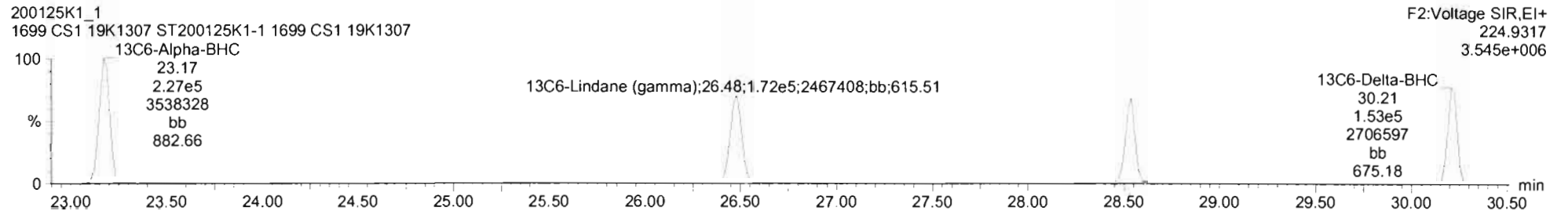
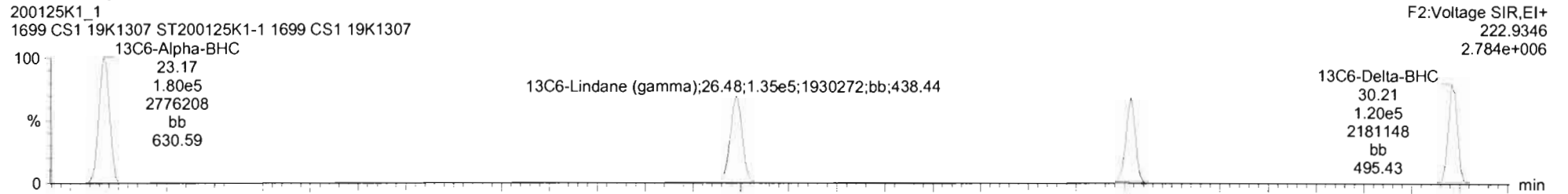
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BHC Totals

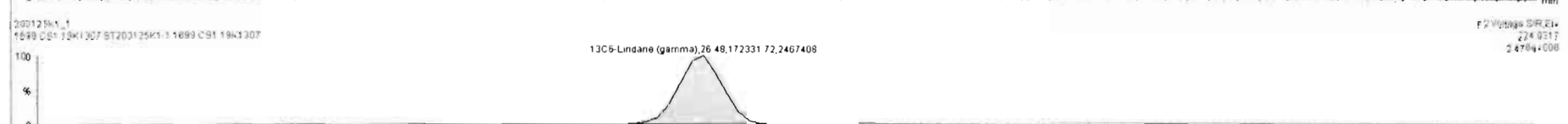
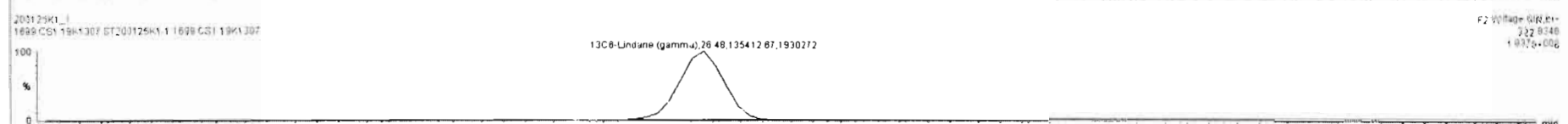
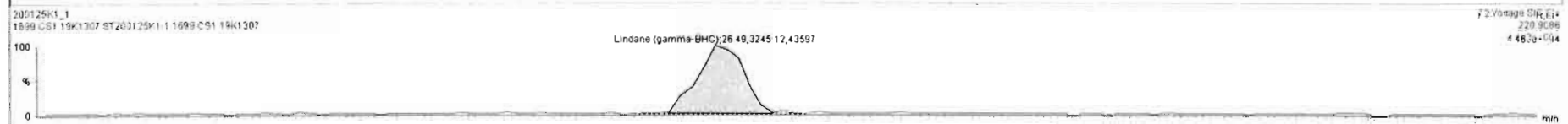
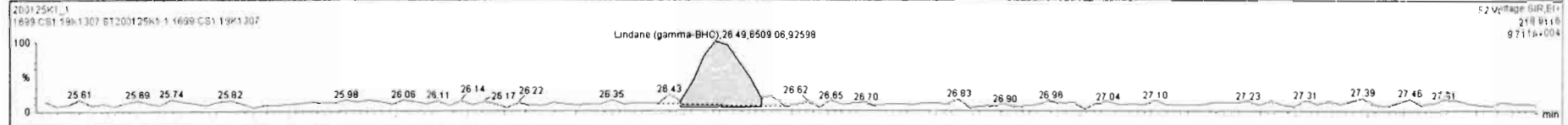


BHC-isotopes



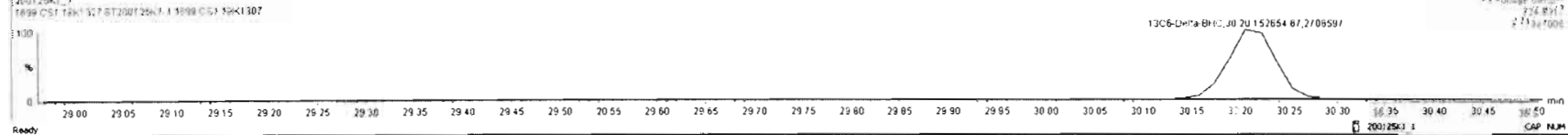
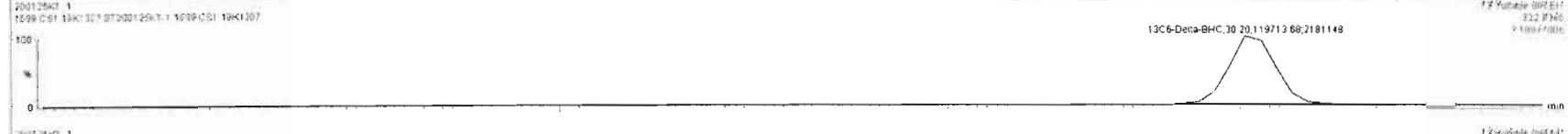
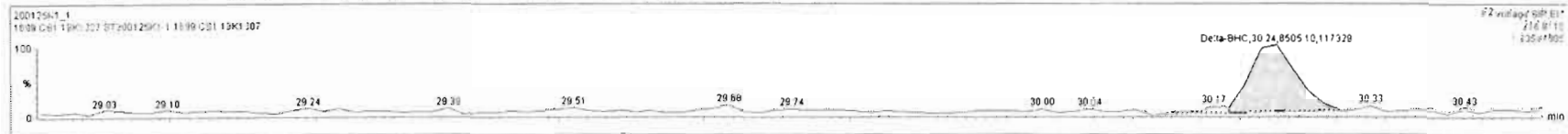
200125K1_1 - ST200125K1_1 1699 CS1 19K1207 - 1699 CS1 19K1207

#	Name	Resp	IS Resp	ISf	RA	n/y	RRF	wVol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 Hexachlorobutadiene	3.13e4	2.29e5	33	0.07	YES	0.0339	1.000	9.97	9.98	1.001	1.000	NO	202	2020	0.249	23.9
2	2 Hexachlorobenzene	4.01e4	1.09e6	34	1.29	NO	0.9969	1.000	22.66	22.65	1.001	1.001	NO	1.96	93.0	0.005	1.86
3	3 Alpha-BHC	1.43e4	4.07e5	35	2.26	NO	0.8617	1.000	23.21	23.20	1.001	1.002	NO	2.04	102	0.207	2.04
4	4 Lindane (gamma-BHC)	9.75e3	3.09e5	36	2.01	NO	0.8690	1.000	26.51	26.49	1.001	1.001	NO	1.82	91.2	0.293	1.82
5	5 Beta-BHC	9.64e3	2.40e5	37	2.10	NO	1.0173	1.000	28.54	28.55	1.001	1.000	NO	1.98	98.9	0.255	1.98
6	6 Delta-BHC	1.03e4	2.72e5	38	1.97	NO	0.9521	1.000	30.23	30.24	1.001	1.001	NO	1.98	98.8	0.237	1.98
7	7 Heptachlor	5.85e3	1.52e5	39	1.15	NO	1.0787	1.000	26.68	26.68	1.001	1.001	NO	2.09	105	0.0352	2.09
8	8 4,4'-DDMU	1.33e4	2.72e5	38	2.76	NO	1.2643	1.000	30.12	30.14	0.998	0.997	NO	1.94	96.8	0.150	1.94
9	9 Aldrin	8.12e3	2.01e5	40	1.47	NO	1.1111	1.000	30.90	30.90	1.001	1.001	NO	1.81	90.7	0.0565	1.81
10	10 Dieldrin	1.98e3	4.42e4	41	1.50	NO	1.0974	1.000	33.37	33.37	1.000	1.001	NO	2.04	102	0.276	2.04
11	11 cis-Heptachlor Epoxide	2.59e3	5.90e4	42	1.57	NO	1.1318	1.000	34.16	34.17	1.001	1.001	NO	1.93	96.4	0.153	1.93
12	12 trans-Heptachlor Epoxide	6.19e2	5.90e4	42	1.43	NO	0.2503	1.000	34.65	34.65	1.015	1.015	NO	2.01	101	0.865	2.01
13	13 trans-Chlordane (gemm)	1.78e3	4.25e4	43	1.94	NO	1.1790	1.000	35.07	35.06	1.001	1.001	NO	1.77	88.6	0.185	1.77
14	14 trans-Nonachlor	1.98e3	4.67e4	44	1.49	NO	1.0756	1.000	35.26	35.26	1.001	1.001	NO	1.88	94.2	0.178	1.88
15	15 cis-Chlordane	2.13e3	4.87e4	44	1.77	NO	1.1058	1.000	35.74	35.75	1.015	1.014	NO	1.96	99.0	0.171	1.96



200125K1_1_1 ST200125K1_1 1699 CS1 19K 1307 1699 CS1 19K 1307

#	Name	Resp	S Resp	RSR	RA	nly	RRF	wtVol	Pred RT	RT	RR1	Pred RR1	Check RR1	Conc.	%Rec	DL	EMPC
1	Hexachlorobutadiene	3.13e4	2.29e5	33	0.07	YES	0.0309	1.000	9.97	9.99	1.001	1.001	NO	202	2020	0.249	23.0
2	Hexachlorobenzene	4.01e4	1.09e5	34	1.25	NO	0.9909	1.000	22.66	22.66	1.001	1.001	NO	1.86	93.0	0.005	1.86
3	Alpha-BHC	1.43e4	4.07e5	25	2.26	NO	0.8617	1.000	23.21	23.21	1.001	1.002	NO	2.04	102	0.207	2.04
4	Lindane (gamma-BHC)	9.75e3	3.95e5	36	2.01	NO	0.8690	1.000	26.51	26.49	1.001	1.001	NO	1.92	91.2	0.293	1.92
5	Beta-BHC	9.64e3	2.40e5	37	2.10	NO	1.0173	1.000	28.54	28.55	1.001	1.001	NO	1.98	98.9	0.255	1.98
6	Delta-BHC	8.95e3	2.72e5	38	1.91	NO	0.9521	1.000	30.23	30.24	1.001	1.001	NO	1.91	95.5	0.237	1.91
7	Heptachlor	6.85e3	1.52e5	29	1.15	NO	1.0787	1.000	29.68	29.68	1.001	1.001	NO	2.00	105	0.0352	2.00
8	4,4'-DDE	1.32e4	2.72e5	38	2.78	NO	1.2643	1.000	30.12	30.14	0.998	0.997	NO	1.94	98.8	0.160	1.94
9	Alrin	8.12e3	2.01e5	40	1.47	NO	1.1111	1.000	30.80	30.80	1.001	1.001	NO	1.89	90.7	0.0565	1.89
10	Chrysothene	1.98e3	4.42e4	41	1.50	NO	1.0974	1.000	33.37	33.37	1.000	1.001	NO	2.04	102	0.226	2.04
11	cis-Heptachlor Epoxide	2.58e3	5.90e4	42	1.57	NO	1.1318	1.000	34.18	34.17	1.001	1.001	NO	1.93	96.4	0.153	1.93
12	trans-Heptachlor Epoxide	6.19e2	5.90e4	42	1.43	NO	0.2603	1.000	34.65	34.65	1.015	1.015	NO	2.01	101	0.865	2.01
13	trans-Chlordane (gamma)	1.78e3	4.25e4	43	1.94	NO	1.1700	1.000	35.07	35.08	1.001	1.001	NO	1.77	88.6	0.185	1.77
14	trans-Nonachlor	1.58e3	4.87e4	44	1.49	NO	1.0706	1.000	35.26	35.26	1.001	1.001	NO	1.88	94.2	0.178	1.88
15	cis-Chlordane	2.13e3	4.87e4	44	1.77	NO	1.1056	1.000	35.74	35.75	1.015	1.014	NO	1.98	99.0	0.171	1.98



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

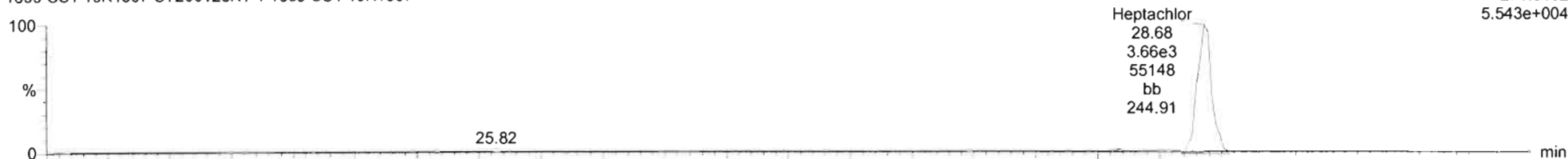
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Name: 200125K1_1, Date: 25-Jan-2020, Time: 13:03:00, ID: ST200125K1-1 1699 CS1 19K1307, Description: 1699 CS1 19K1307

Heptachlor

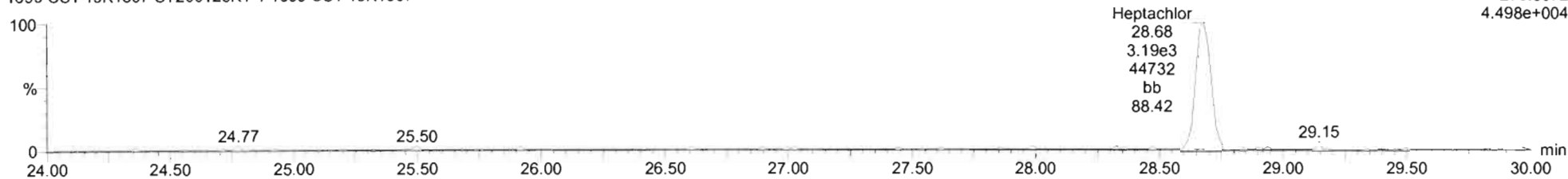
200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

F2:Voltage SIR,EI+
271.8102
5.543e+004



200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

F2:Voltage SIR,EI+
273.8072
4.498e+004



13C10-Heptachlor

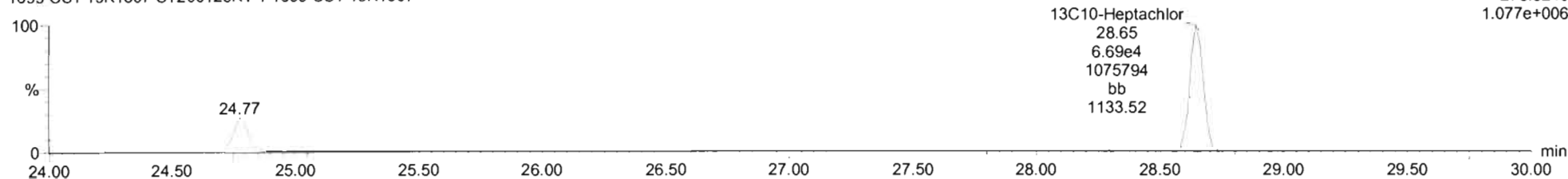
200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

F2:Voltage SIR,EI+
276.8269
1.349e+006



200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

F2:Voltage SIR,EI+
278.8240
1.077e+006



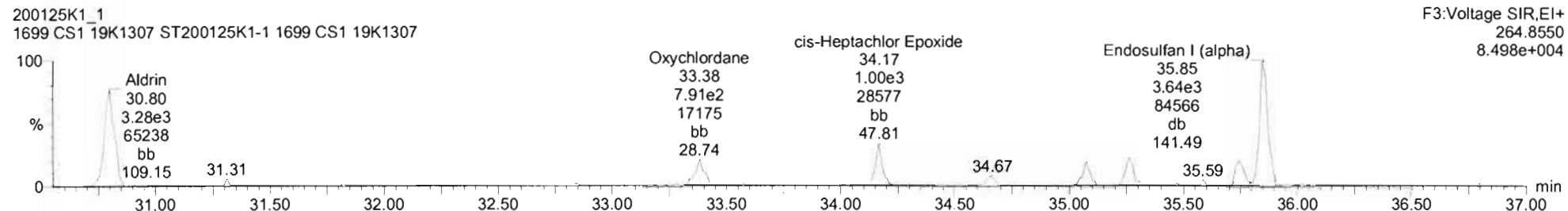
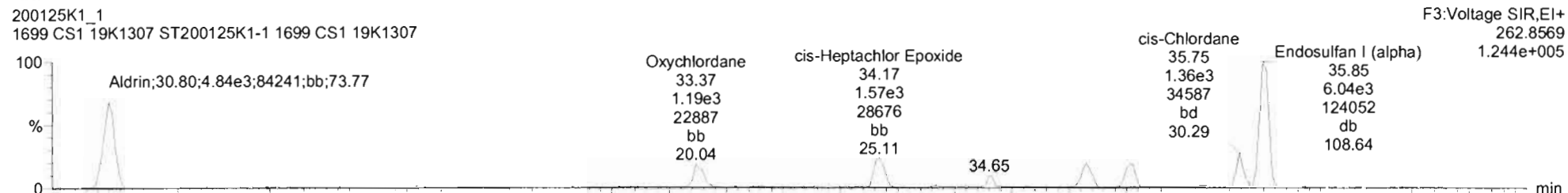
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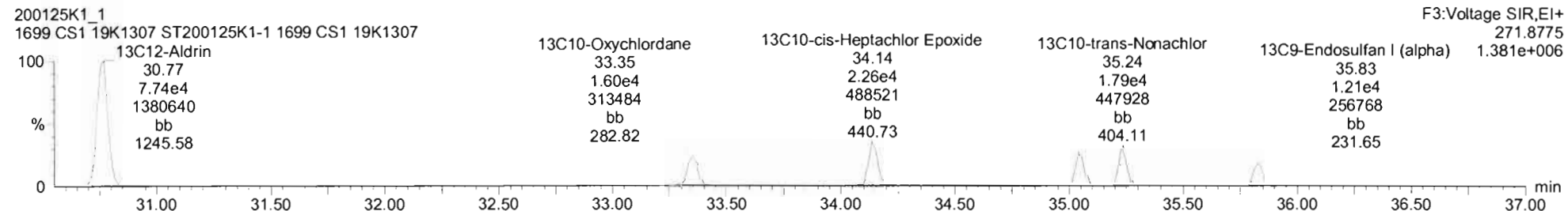
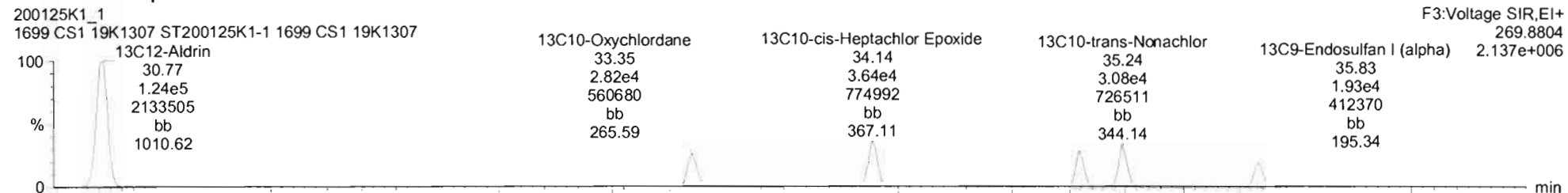
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Name: 200125K1_1, Date: 25-Jan-2020, Time: 13:03:00, ID: ST200125K1-1 1699 CS1 19K1307, Description: 1699 CS1 19K1307

Aldrin-EI



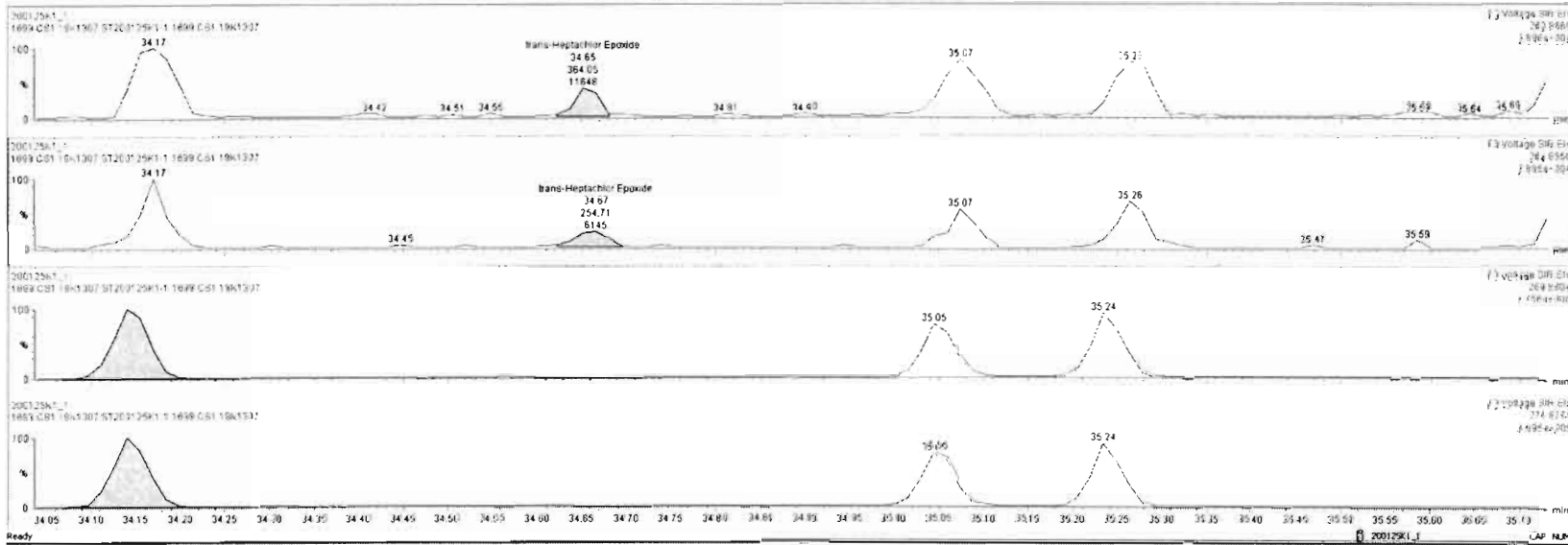
Aldrin-EI-isotopes



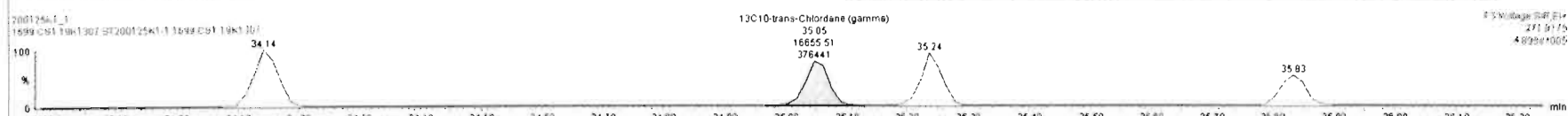
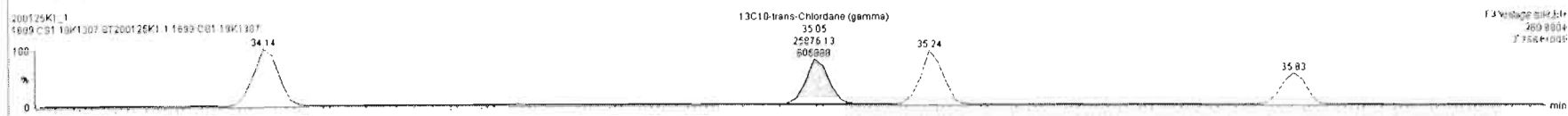
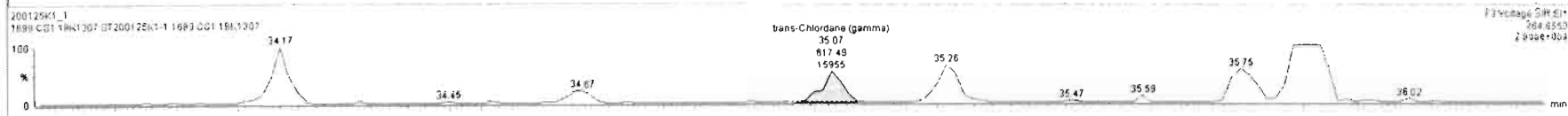
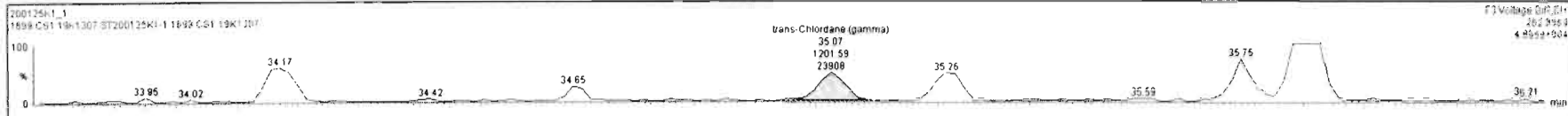
Target1.gnx - 200125K1-CRV.qld [Chromatogram]

200125_1_1 - 5' 200125_1_1 1609°C S1 1307 - 1630°C S1 1307

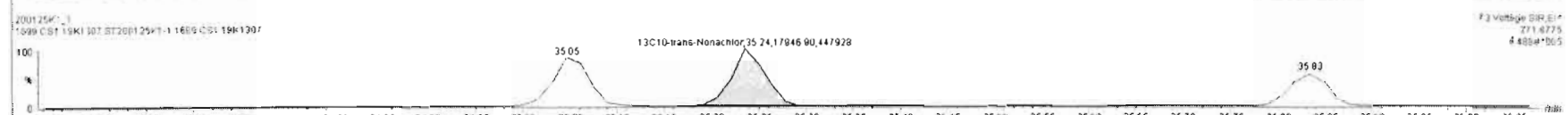
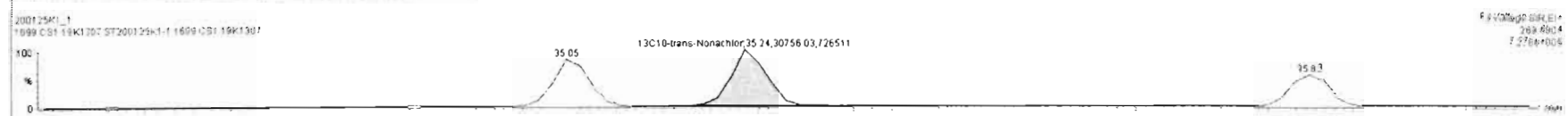
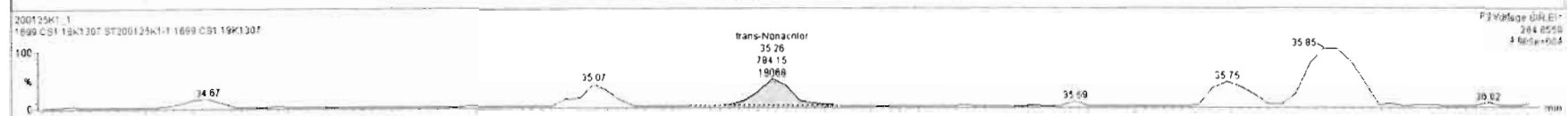
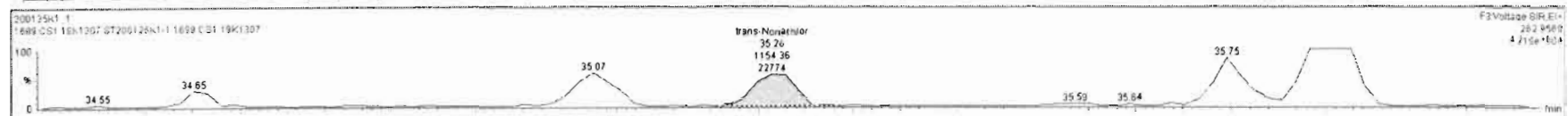
#	Name	Reto	Q1Reto	Q4	RA	ny	RRF	Reto	Preo.RT	RT	RRT	Preo.RT	Check.RT	Conc.	U/Mic	CL	EMPC
1	Hexachlorobutadiene	3.1364	2.2940	33	0.07	YES	0.0339	1.000	9.97	9.98	1.001	1.000	NO	202	2020	0.249	23.9
2	Hexachlorobenzene	4.0164	1.0865	34	1.29	NO	0.9969	1.000	22.66	22.65	1.001	1.001	NO	1.06	93.0	0.005	1.86
3	Alpha-BHC	1.4364	4.0765	35	2.26	NO	0.8817	1.000	23.21	23.20	1.001	1.002	NO	2.04	102	0.207	2.04
4	Lindane (gamma-BHC)	8.7563	3.0665	36	2.01	NO	0.8690	1.000	26.51	26.40	1.001	1.001	NO	1.82	91.2	0.293	1.82
5	Beta-BHC	9.5463	2.4065	37	2.10	NO	1.0173	1.000	28.54	28.55	1.001	1.000	NO	1.98	98.9	0.255	1.98
6	Delta-BHC	9.9063	2.7265	38	1.91	NO	0.9521	1.000	30.23	30.24	1.001	1.001	NO	1.91	95.5	0.237	1.91
7	Heptachlor	6.9563	1.5265	39	1.16	NO	1.0762	1.000	29.68	29.68	1.001	1.001	NO	2.09	105	0.0952	2.09
8	4,4'-DDE	1.3264	2.7265	39	2.69	NO	1.2643	1.000	30.13	30.14	0.998	0.997	NO	1.92	95.9	0.150	1.92
9	Alare	8.1263	2.0165	40	1.47	NO	1.1111	1.000	30.20	30.90	1.001	1.001	NO	1.81	90.7	0.0565	1.81
10	Chrysothene	1.9963	4.4264	41	1.50	NO	1.0374	1.000	33.37	33.37	1.000	1.001	NO	2.04	102	0.226	2.04
11	trans-Heptachlor Epoxide	2.5963	5.9064	42	1.67	NO	1.1318	1.000	34.16	34.17	1.001	1.001	NO	1.93	96.4	0.153	1.93
12	trans-Heptachlor Epoxide	6.1962	5.9064	42	1.43	NO	0.2603	1.000	34.85	34.85	1.015	1.015	NO	2.01	101	0.089	2.01
13	trans-Chlordane Epoxide	1.7963	4.2564	43	1.94	NO	1.1780	1.000	35.07	35.08	1.001	1.001	NO	1.77	88.6	0.185	1.77
14	trans-Nonachlor	1.9063	4.8764	44	1.48	NO	1.0768	1.000	35.26	35.26	1.001	1.001	NO	1.88	94.2	0.176	1.88
15	trans-Chlordane	2.1363	4.8764	44	1.77	NO	1.1059	1.000	35.74	35.75	1.015	1.014	NO	1.98	99.0	0.171	1.98



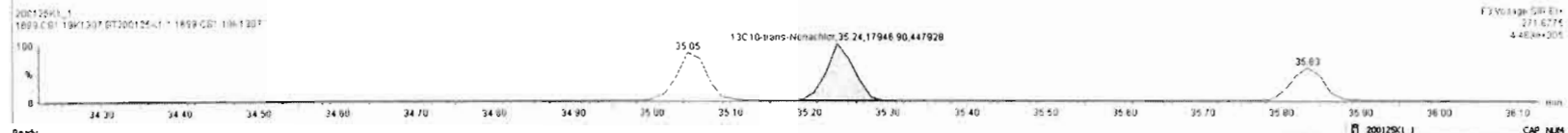
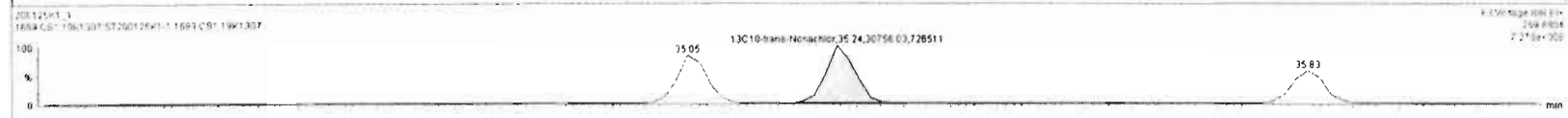
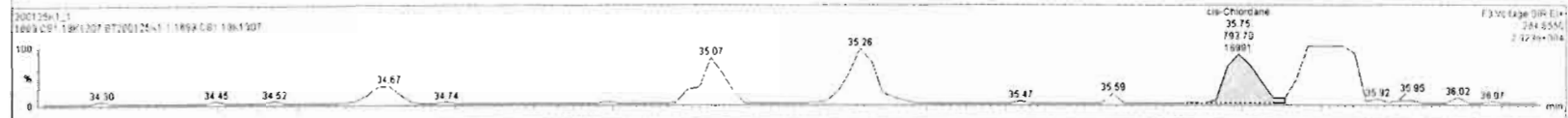
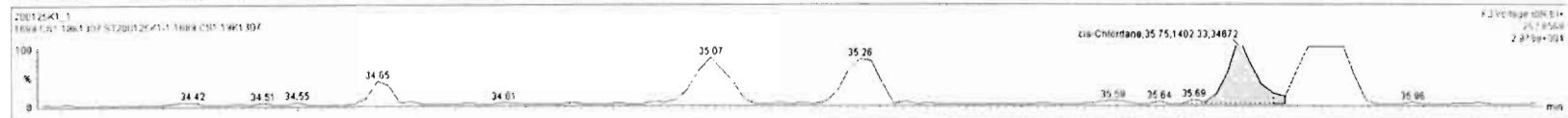
#	Name	Resp	IS Resp	IS#	RA	nly	RRF	wtvol	Pred.RT	RT	RRT	Pred.RRT	Check.RRT	Conc.	%Rec	DL	EMPC
1	Hexachlorocyclopentadiene	3.13e4	2.29e5	33	0.07	YES	0.0339	1.000	9.97	9.99	1.001	1.000	NO	202	2020	0.249	23.9
2	Hexachlorobenzene	4.01e4	1.09e6	34	1.29	NO	0.9999	1.000	22.86	22.85	1.001	1.001	NO	1.86	93.0	0.005	1.86
3	Alpha-BHC	1.43e4	4.07e5	35	2.26	NO	0.8617	1.000	23.21	23.20	1.001	1.002	NO	2.04	102	0.207	2.04
4	Lindane (gamma-BHC)	9.75e3	3.06e5	36	2.01	NO	0.8690	1.000	26.51	26.49	1.001	1.001	NO	1.61	91.2	0.293	1.62
5	Beta-BHC	9.64e3	2.40e5	37	2.10	NO	1.0173	1.000	28.54	28.55	1.001	1.000	NO	1.98	98.8	0.255	1.98
6	Delta-BHC	9.80e3	2.72e5	38	1.91	NO	0.9521	1.000	30.23	30.24	1.001	1.001	NO	1.91	95.5	0.237	1.91
7	Heptachlor	6.85e3	1.52e5	39	1.15	NO	1.0787	1.000	28.68	28.68	1.001	1.001	NO	2.08	105	0.6352	2.08
8	4,4'-DDE	1.32e4	2.72e5	38	2.89	NO	1.2543	1.000	30.12	30.14	0.998	0.997	NO	1.92	95.9	0.150	1.92
9	Arochl	8.12e3	2.01e5	40	1.47	NO	1.1111	1.000	30.80	30.80	1.001	1.001	NO	1.81	90.7	0.6566	1.81
10	Orychlorane	1.98e3	4.42e4	41	1.50	NO	1.0974	1.000	33.37	33.37	1.000	1.001	NO	2.04	102	0.226	2.04
11	cis-Heptachlor Epoxide	2.58e3	5.90e4	42	1.57	NO	1.1318	1.000	34.16	34.17	1.001	1.001	NO	1.92	96.4	0.153	1.92
12	trans-Heptachlor Epoxide	6.19e2	5.90e4	42	1.43	NO	0.2603	1.000	34.85	34.85	1.015	1.015	NO	2.01	101	0.665	2.01
13	trans-Chlordane (gamma)	1.82e3	4.25e4	43	1.95	NO	1.1780	1.000	35.07	35.07	1.001	1.001	NO	1.82	90.9	0.195	1.82
14	trans-Nonachlor	1.39e3	4.87e4	44	1.49	NO	1.0766	1.000	35.26	35.26	1.001	1.001	NO	1.88	94.2	0.176	1.88
15	cis-Chlordane	2.13e3	4.87e4	44	1.77	NO	1.0556	1.000	35.74	35.75	1.015	1.014	NO	1.98	99.0	0.171	1.98
16	Endosulfen I (alpha)	9.89e3	3.14e4	45	1.66	NO	1.1568	1.000	35.85	35.85	1.000	1.001	NO	1.33	133	0.281	1.33
17	4,4'-DDD	2.73e4	1.16e6	46	2.93	NO	0.6758	1.000	35.51	35.50	0.994	0.994	NO	1.74	87.1	0.0459	1.74
18	2,4'-DDE	4.38e4	1.16e6	46	1.28	NO	0.9641	1.000	35.73	35.73	1.000	1.000	NO	1.92	95.9	0.169	1.92



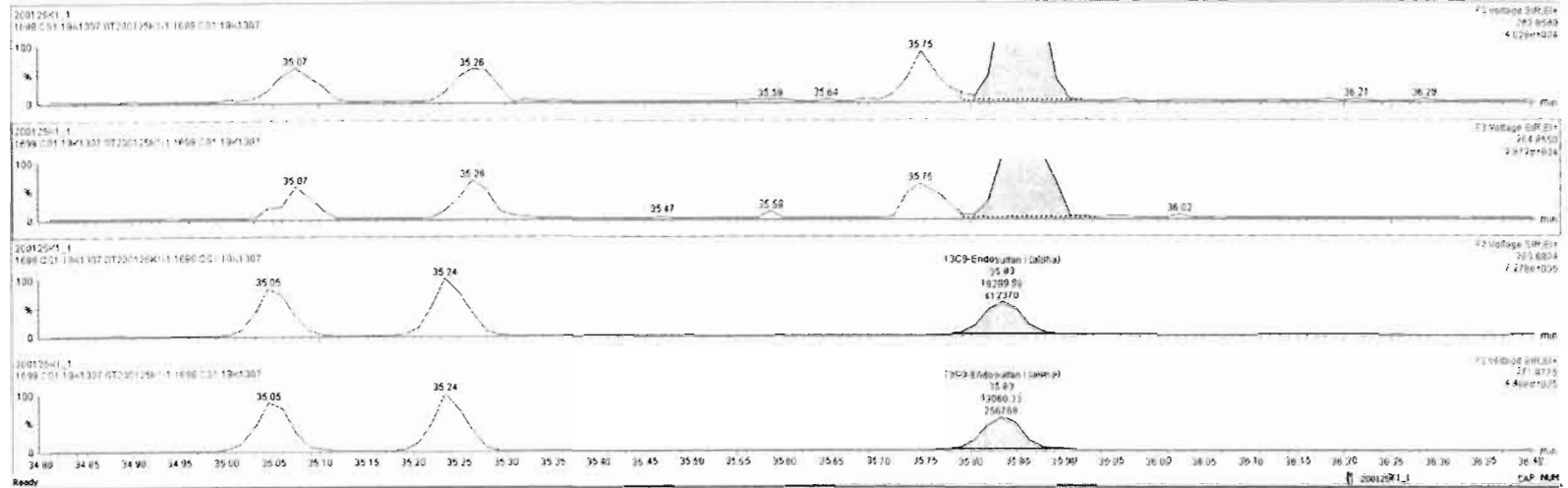
#	Name	Reso	IS Resp	IS#	RA	n/y	RNF	wt/vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	Hexachlorobutadiene	3.13e4	2.79e6	33	0.07	YES	0.0339	1.000	9.97	9.96	1.001	1.000	NO	202	2020	0.249	23.9
2	Hexachlorobenzene	4.01e4	1.08e6	34	1.29	NO	0.9969	1.000	22.68	22.65	1.001	1.001	NO	1.86	93.0	0.005	1.86
3	Alpha-BHC	1.43e4	4.07e5	35	2.26	NO	0.8617	1.000	23.21	23.20	1.001	1.002	NO	2.04	102	0.207	2.04
4	Lindane (gamma-BHC)	9.75e3	3.08e5	36	2.01	NO	0.8650	1.000	26.51	26.49	1.001	1.001	NO	1.82	91.2	0.293	1.82
5	Beta-BHC	9.64e3	2.45e5	37	2.10	NO	1.0173	1.000	26.54	26.55	1.001	1.000	NO	1.98	98.9	0.255	1.98
6	Delta-BHC	9.90e3	2.72e5	38	1.91	NO	0.9521	1.000	30.23	30.24	1.001	1.001	NO	1.91	95.5	0.237	1.91
7	Heptachlor	6.85e3	1.52e5	39	1.15	NO	1.0787	1.000	28.68	28.68	1.001	1.001	NO	2.09	105	0.0352	2.09
8	4,4'-DDMU	1.32e4	2.72e5	38	2.89	NO	1.2643	1.000	30.12	30.14	0.998	0.997	NO	1.92	95.9	0.150	1.92
9	Aldrin	8.12e3	2.01e5	40	1.47	NO	1.1111	1.000	30.90	30.80	1.001	1.001	NO	1.81	90.7	0.0566	1.81
10	Chrysothene	1.98e3	4.42e4	41	1.50	NO	1.0974	1.000	33.37	33.37	1.000	1.001	NO	2.94	102	0.226	2.94
11	cis-Heptachlor Epoxide	2.58e3	5.50e4	42	1.57	NO	1.1318	1.000	34.16	34.17	1.001	1.001	NO	1.83	96.4	0.153	1.93
12	trans-Heptachlor Epoxide	6.19e3	5.50e4	42	1.57	NO	1.1318	1.000	34.65	34.66	1.015	1.015	NO	2.01	101	0.665	2.01
13	trans-Chlordane (gemm)	1.82e3	4.25e4	43	1.95	NO	1.1790	1.000	35.07	35.07	1.001	1.001	NO	1.82	90.8	0.185	1.82
14	trans-Nonachlor	1.94e3	4.87e4	44	1.47	NO	1.0766	1.000	35.26	35.26	1.001	1.001	NO	1.85	92.4	0.176	1.85
15	cis-Chlordane	2.13e3	4.87e4	44	1.77	NO	1.1056	1.000	35.74	35.75	1.015	1.014	NO	1.98	89.0	0.171	1.98
16	Epoxystyrene (alpha)	9.88e3	3.14e4	45	1.86	NO	1.1566	1.000	35.85	35.86	1.000	1.001	NO	13.3	133	0.281	13.3
17	4,4'-DDMU	2.73e4	1.16e6	46	2.93	NO	0.8750	1.000	35.51	35.50	0.994	0.994	NO	1.74	87.1	0.0458	1.74
18	2,4'-DDU	4.38e4	1.16e6	46	1.20	NO	0.9841	1.000	35.73	35.73	1.000	1.000	NO	1.92	95.9	0.168	1.92



#	Name	Reqp	IS Req	SF	RA	dy	RF	wfwd	Prod RT	RT	RET	Prod RET	Check RET	Clnc	%Rec	DL	EMPC
1	Hexachlorobutadiene	31364	2.296	23	0.07	YES	0.0239	1.000	9.97	9.98	1.001	1.000	NO	302	2020	0.249	23.9
2	Hexachlorobenzene	4.0164	1.0166	34	1.39	NO	0.0989	1.000	22.68	22.65	1.001	1.001	NO	1.86	93.0	0.006	1.96
3	Alpha-BHC	1.4364	4.0765	35	2.26	NO	0.0617	1.000	23.21	23.20	1.001	1.002	NO	2.04	102	0.207	2.04
4	Lindane (gamma-BHC)	0.7560	3.0165	36	2.01	NO	0.0890	1.000	26.51	26.49	1.001	1.001	NO	1.62	91.2	0.293	1.62
5	Beta-BHC	0.6463	2.4065	37	2.10	NO	1.0173	1.000	26.54	26.55	1.001	1.000	NO	1.89	96.9	0.255	1.98
6	Delta-BHC	9.9063	2.7265	38	1.91	NO	0.9521	1.000	30.23	30.24	1.001	1.001	NO	1.91	95.5	0.237	1.91
7	Heptachlor	0.6563	1.5265	39	1.15	NO	1.0797	1.000	28.69	28.69	1.001	1.001	NO	2.09	105	0.0352	2.09
8	4,4'-DDE	1.3766	2.7265	38	2.89	NO	1.2643	1.000	30.12	30.14	0.998	0.997	NO	1.62	85.9	0.150	1.62
9	AArin	0.1263	2.0165	40	1.47	NO	1.1711	1.000	35.80	35.80	1.001	1.001	NO	1.81	90.7	0.365	1.81
10	Dicyclohexane	1.0963	4.4264	41	1.50	NO	1.0074	1.000	33.37	33.37	1.000	1.001	NO	2.04	102	0.226	2.04
11	cis-Heptachlor Epoxide	2.0863	5.0064	42	1.57	NO	1.1318	1.000	34.16	34.17	1.001	1.001	NO	1.93	96.4	0.153	1.93
12	trans-Heptachlor Epoxide	0.1962	5.9064	42	1.43	NO	0.2603	1.000	34.85	34.85	1.015	1.015	NO	2.01	101	0.685	2.01
13	trans-Chlordane (open)	1.8263	4.2564	43	1.95	NO	1.1790	1.000	35.07	35.07	1.001	1.001	NO	1.82	90.8	0.195	1.82
14	trans-Nonachlor	1.9463	4.8764	44	1.47	NO	1.0796	1.000	35.26	35.26	1.001	1.001	NO	1.65	82.4	0.176	1.65
15	cis-Chlordane	2.2063	4.8764	44	1.77	NO	1.1056	1.000	35.74	35.75	1.014	1.014	NO	2.64	152	0.171	2.64
16	Erythronin (alpha)	0.9863	3.1464	45	1.96	NO	1.1596	1.000	35.85	35.85	1.000	1.001	NO	1.33	130	0.281	1.33
17	4,4'-DDMU	2.7364	1.1664	46	2.93	NO	0.6758	1.000	35.51	35.50	0.994	0.994	NO	1.74	87.1	0.0458	1.74
18	4,4'-DDE	4.3864	1.1664	46	1.29	NO	0.9941	1.000	35.73	35.73	1.000	1.000	NO	1.82	85.9	0.169	1.82



#	Name	Ret	IS Ret	Exp	RA	Inf	RF	Wt%	Prod RT	RT	RRT	Prod RRT	Check RRT	Conc	%Rec	Dt	EMPC
1	Hexachlorobutadiene	3.13e4	2.29e5	33	0.07	YES	0.0339	1.000	9.97	9.96	1.001	1.000	NO	202	20.20	0.249	23.9
2	Hexachlorocyclopentadiene	4.01e4	1.03e5	34	1.29	NO	0.3998	1.000	22.66	22.65	1.001	1.001	NO	1.86	83.0	0.005	1.89
3	Alpha-BHC	1.43e4	4.07e5	35	2.26	NO	0.3817	1.000	22.21	23.20	1.001	1.002	NO	2.04	102	0.207	2.04
4	Lindane (gamma-BHC)	9.75e3	3.03e5	36	2.01	NO	0.3990	1.000	26.51	26.48	1.001	1.001	NO	1.82	91.7	0.293	1.82
5	Beta-BHC	3.64e3	2.49e5	37	2.12	NO	1.0173	1.000	28.14	28.56	1.001	1.000	NO	1.96	39.9	0.255	1.98
6	Delta-BHC	9.99e3	2.72e5	38	1.99	NO	0.9029	1.000	30.23	30.24	1.001	1.001	NO	1.91	36.5	0.227	1.91
7	Heptachlor	6.65e3	1.52e5	39	1.15	NO	1.0787	1.000	26.68	26.68	1.001	1.001	NO	2.09	105	0.0352	2.09
8	4'-C-COHL	1.32e4	2.72e5	39	2.09	NO	1.2943	1.000	30.12	30.14	0.998	0.997	NO	1.92	95.9	0.150	1.92
9	Alpha	8.12e3	2.01e5	40	1.47	NO	1.1111	1.000	30.80	30.80	1.001	1.001	NO	1.81	90.7	0.0585	1.81
10	Chrysochloride	1.98e3	4.42e4	41	1.50	NO	1.0074	1.000	33.37	33.37	1.000	1.001	NO	2.04	102	0.220	2.04
11	cis-Heptachlor Epoxide	2.68e3	5.90e4	42	1.57	NO	1.1318	1.000	34.16	34.17	1.001	1.001	NO	1.93	96.4	0.153	1.93
12	trans-Heptachlor Epoxide	6.18e2	5.90e4	42	1.43	NO	0.2603	1.000	34.66	34.66	1.015	1.015	NO	2.01	101	0.666	2.01
13	trans-Chlordane (gamma)	1.82e2	4.25e4	43	1.95	NO	1.1780	1.000	35.07	35.07	1.001	1.001	NO	1.82	90.9	0.165	1.82
14	trans-Nonachlor	1.99e3	4.67e4	43	1.47	NO	1.0758	1.000	35.26	35.26	1.001	1.001	NO	1.95	92.4	0.176	1.95
15	cis-Chlordane	2.29e3	4.67e4	44	1.77	NO	1.1096	1.000	35.74	35.75	1.014	1.014	NO	2.04	102	0.171	2.04
16	Endosulfan (alpha)	8.54e3	3.14e4	45	1.86	NO	1.1556	1.000	36.85	36.96	1.001	1.001	NO	13.2	132	0.281	13.2
17	4'-C-COHL	2.73e4	1.16e5	46	2.93	NO	0.8758	1.000	36.51	36.50	0.994	0.994	NO	1.74	87.1	0.0494	1.74
18	4'-C-COHL	4.38e4	1.16e5	46	1.28	NO	0.3841	1.000	36.73	36.73	1.000	1.000	NO	1.92	95.9	0.189	1.92



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Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

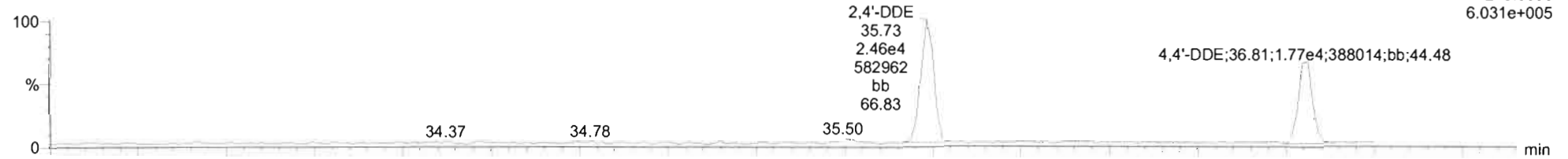
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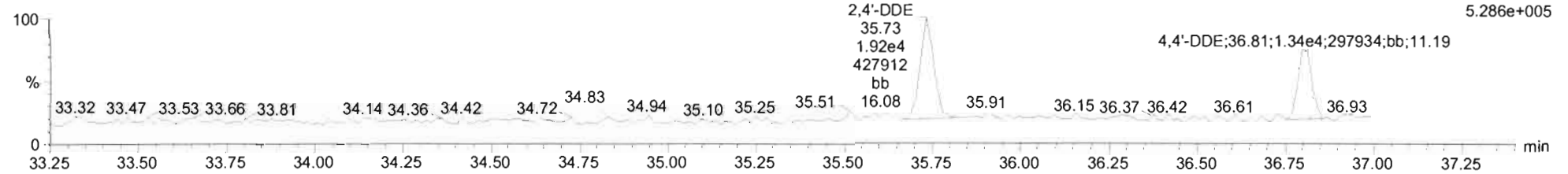
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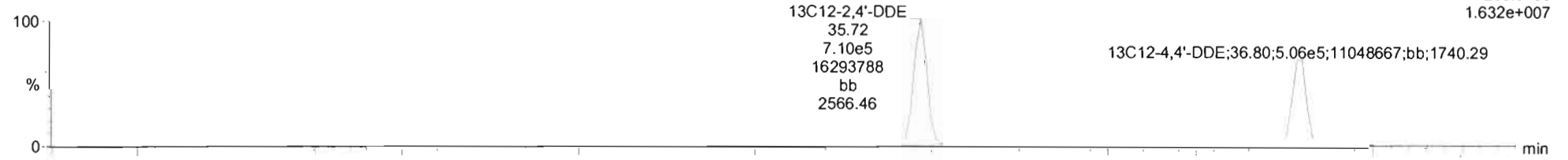
F3:Voltage SIR,EI+
247.9974
5.286e+005



DDE-isotopes

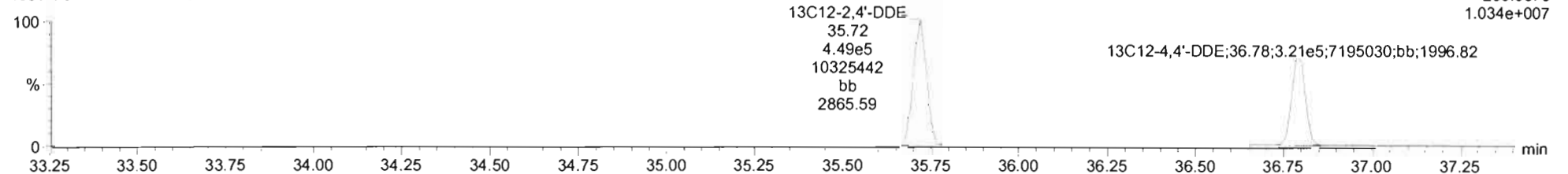
200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

F3:Voltage SIR,EI+
258.0406
1.632e+007



200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

F3:Voltage SIR,EI+
260.0376
1.034e+007



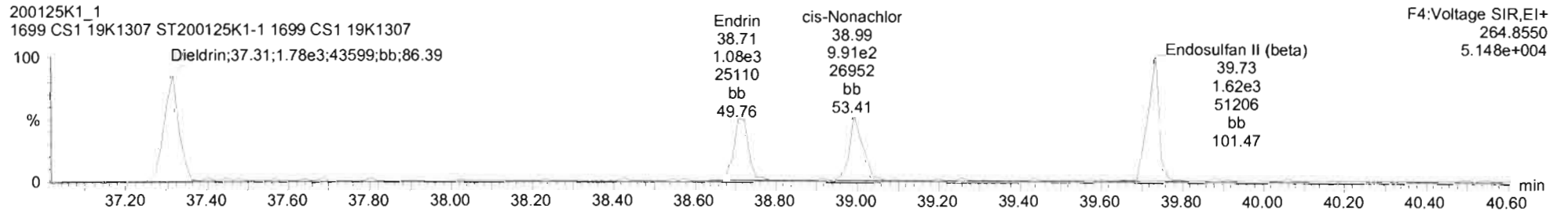
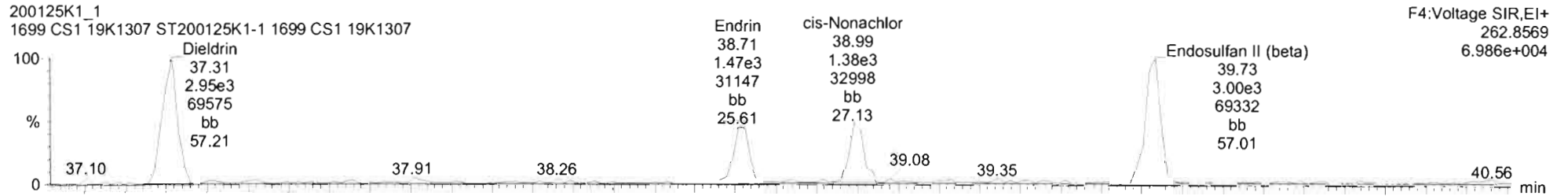
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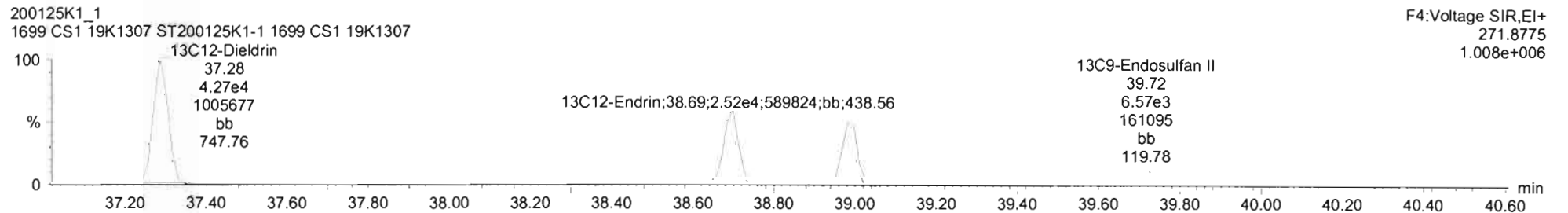
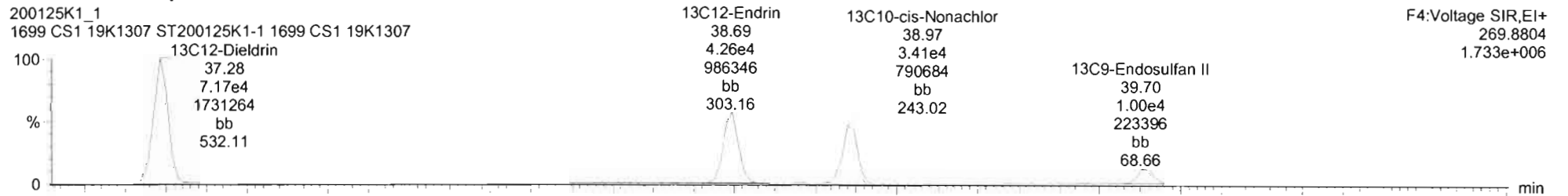
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_1, Date: 25-Jan-2020, Time: 13:03:00, ID: ST200125K1-1 1699 CS1 19K1307, Description: 1699 CS1 19K1307

Dieldrin-Ell



Dieldrin-Ell-isotopes



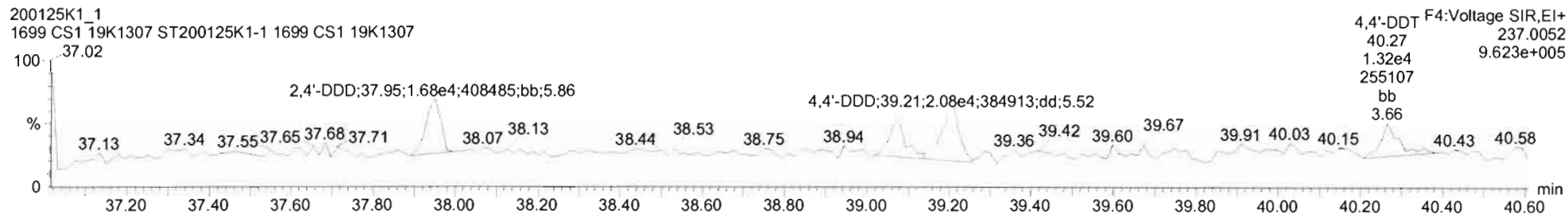
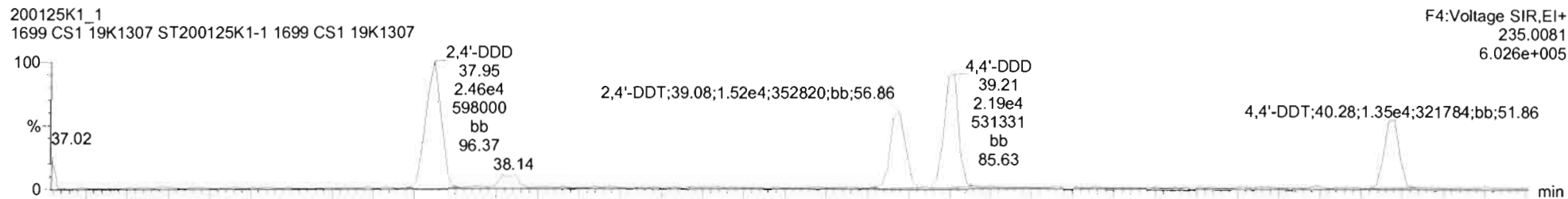
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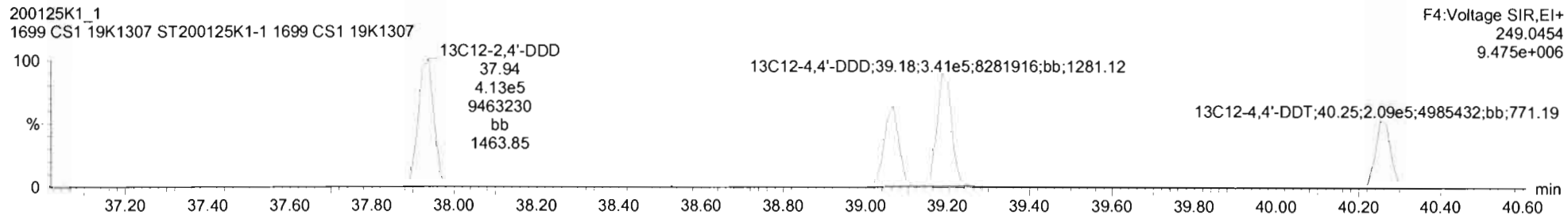
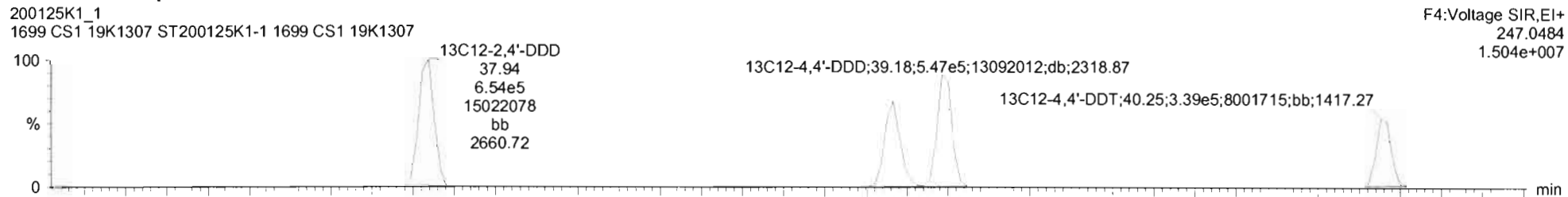
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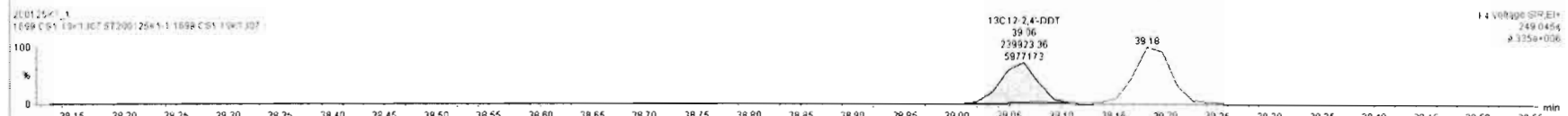
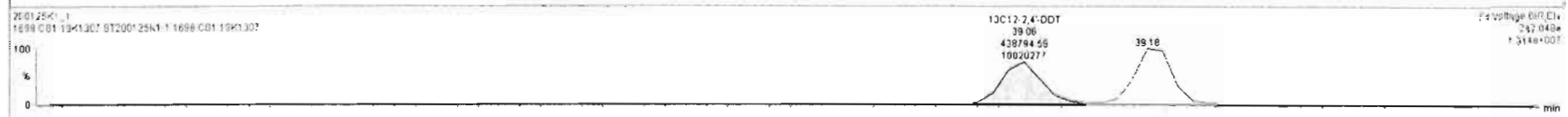
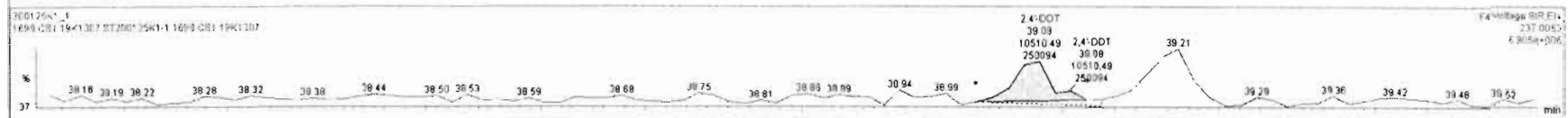
DDD-DDT



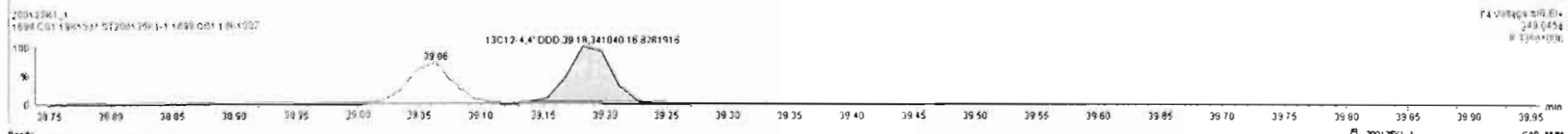
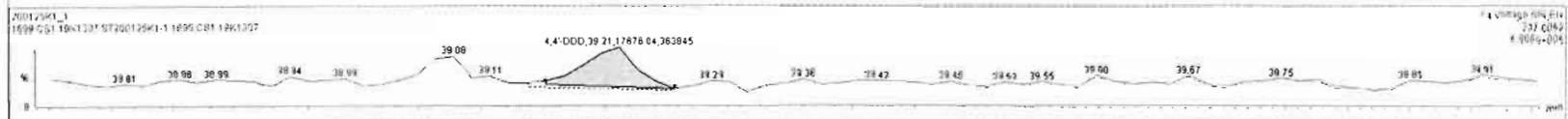
DDD-DDT-isotopes



#	Name	Resp	IS Resp	RF	RA	inj	RR'	wtAval	Pred.RT	RT	RRT	Pred.RRT	Check.RRT	Conc.	%Rec	DL	EMPC
20	20	4.72e3	1.14e5	48	1.86	NO	1.0934	1.000	37.30	37.31	1.001	1.000	NO	1.89	94.4	0.0713	1.89
21	21	2.55e3	6.79e4	49	1.37	NO	1.0566	1.000	38.89	38.71	1.000	1.000	NO	1.79	80.1	0.130	1.79
22	22	2.37e3	5.51e4	50	1.39	NO	1.0772	1.000	38.96	38.99	1.000	1.000	NO	2.00	95.8	0.158	2.00
23	23	4.82e3	1.66e4	51	1.05	NO	1.1102	1.000	38.70	39.73	1.001	1.000	NO	12.5	125	0.524	12.5
24	24	4.14e4	1.07e5	52	1.47	NO	1.0482	1.000	37.94	37.95	1.000	1.000	NO	1.85	92.5	0.369	1.85
25	25	2.57e4	6.79e5	53	1.45	NO	1.0249	1.000	38.08	38.08	1.000	1.000	NO	1.85	92.4	0.587	1.85
26	26	3.91e4	8.89e5	54	1.27	NO	1.1226	1.000	39.20	39.21	1.001	1.000	NO	1.96	96.0	0.398	1.96
27	27	2.43e4	5.47e5	55	1.25	NO	1.1376	1.000	40.27	40.28	1.001	1.000	NO	1.85	97.4	0.645	1.85
28	28	5.89e3	2.72e4	56	1.47	NO	0.9871	1.000	41.44	41.45	1.000	1.000	NO	10.6	106	0.387	10.6
29	29	1.51e5	6.22e5	57	8.15	NO	1.3888	1.000	43.33	43.32	1.000	1.000	NO	9.59	95.9	0.0610	9.59
30	30	1.09e4	2.79e5	58	1.57	NO	1.0435	1.000	43.91	43.90	1.000	1.000	NO	1.86	93.2	0.0316	1.86
31	31	1.22e4	5.57e5	59	0.61	NO	1.0557	1.000	40.96	40.85	1.000	1.000	NO	10.4	104	0.239	10.4
32	32	9.15e3	4.59e5	60	0.65	NO	0.9241	1.000	44.01	44.05	1.001	1.000	NO	10.2	102	0.334	10.2
33	33	2.29e6	1.59e6	62	1.26	NO	0.1267	1.000	9.95	9.97	0.984	0.383	NO	583	114	0.0388	
34	34	1.09e6	1.59e6	62	1.27	NO	0.6741	1.000	22.66	22.64	0.871	0.872	NO	50.5	101	0.007	
35	35	4.07e5	1.59e6	62	0.80	NO	0.3548	1.000	23.19	23.17	0.892	0.892	NO	50.4	101	0.185	
36	36	3.08e5	1.59e6	62	0.79	NO	0.2007	1.000	26.46	26.48	1.019	1.018	NO	48.3	96.8	0.235	
37	37	2.49e5	1.59e6	62	0.79	NO	0.1548	1.000	26.54	26.53	1.098	1.098	NO	48.8	97.8	0.305	

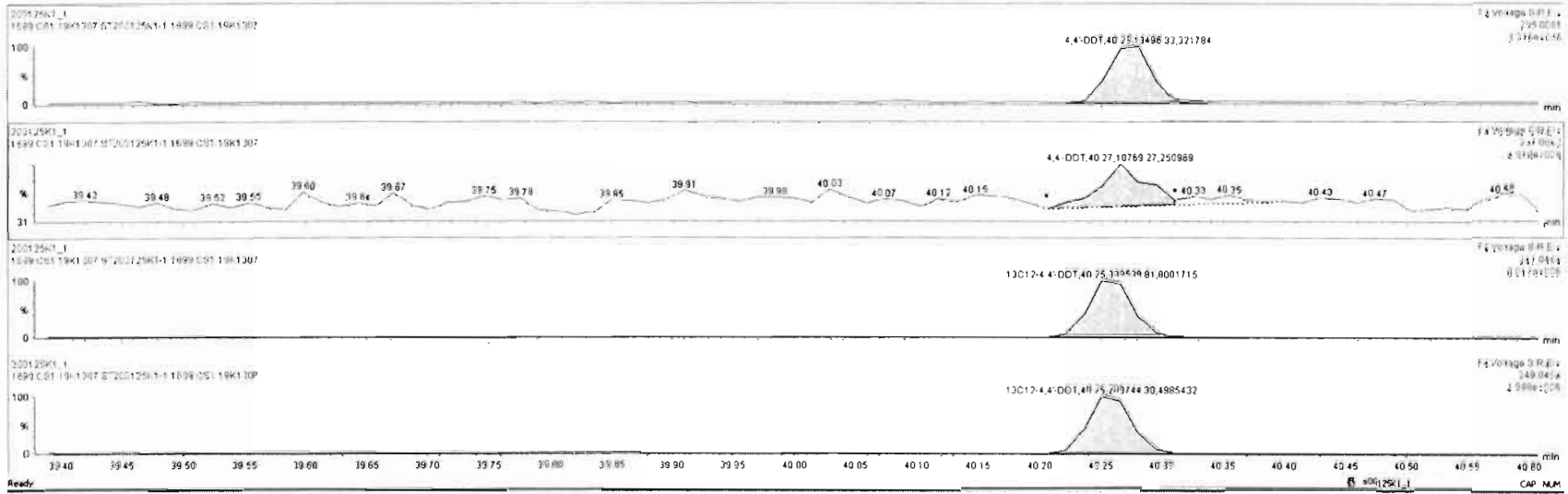


#	Name	Resp	IS Resp	CF	RA	WV	RRF	WtVol	Prod#1	RT	RRT	Prod#2	Check RRT	Conc	%Rec	DL	EMPC
20	Endrin	4.72e3	1.14e5	48	1.85	NO	1.0304	1.000	37.30	37.31	1.001	1.000	NO	1.89	94.4	0.0713	1.99
21	Endrin	2.65e3	6.79e4	49	1.57	NO	1.0566	1.000	38.89	38.71	1.000	1.000	NO	1.78	89.1	0.130	1.78
22	Endrin	2.37e3	5.51e4	50	1.39	NO	1.0772	1.000	38.89	38.99	1.000	1.000	NO	2.00	99.8	0.156	2.00
23	Endrin	4.62e3	1.65e4	51	1.85	NO	1.1100	1.000	39.70	39.73	1.001	1.000	NO	12.0	125	0.524	12.5
24	4'-DDD	4.14e4	1.07e6	52	1.47	NO	1.0482	1.000	37.94	37.95	1.000	1.000	NO	1.85	92.5	0.369	1.85
25	4'-DDT	2.37e4	6.79e5	53	1.45	NO	1.0249	1.000	39.08	39.08	1.000	1.000	NO	1.85	92.4	0.597	1.85
26	4'-DDD	3.95e4	8.86e5	54	1.24	NO	1.1229	1.000	39.20	39.21	1.001	1.000	NO	1.88	99.2	0.398	1.88
27	4'-DDT	2.43e4	5.47e5	55	1.25	NO	1.1379	1.000	40.27	40.28	1.001	1.000	NO	1.95	97.4	0.645	1.95
28	Endosulfan Sulfate	5.89e3	2.72e4	56	1.47	NO	0.9811	1.000	41.64	41.45	1.000	1.000	NO	10.6	108	0.387	10.6
29	4'-Methoxychlor	1.51e5	6.22e5	57	6.15	NO	1.2669	1.000	47.33	43.32	1.000	1.000	NO	9.59	95.9	0.0610	9.59
30	Misc.	1.09e4	2.79e5	58	1.57	NO	1.0435	1.000	43.91	43.90	1.000	1.000	NO	1.86	93.2	0.0318	1.86
31	Endrin Aldehyde	1.22e4	5.57e5	59	0.61	NO	1.0552	1.000	40.86	40.85	1.000	1.000	NO	10.4	104	0.298	10.4
32	Endrin Ketone	9.15e3	4.59e5	60	0.65	NO	0.9741	1.000	44.01	44.05	1.001	1.000	NO	10.2	102	0.334	10.2
33	13C12-Hexachlorocyclohexadiene	2.29e5	1.59e6	62	1.28	NO	0.1267	1.000	9.96	9.97	0.384	0.383	NO	569	114	0.0388	
34	13C12-Hexachlorocyclohexadiene	1.08e5	1.59e6	62	1.27	NO	0.6741	1.000	22.86	22.84	0.871	0.872	NO	50.0	101	0.0007	
35	13C12-Alpha-DHC	4.07e5	1.59e6	62	0.80	NO	0.2540	1.000	23.19	23.17	0.892	0.892	NO	50.4	101	0.195	
36	13C12-Lindane (gamma)	3.08e5	1.59e6	62	0.79	NO	0.2027	1.000	26.46	26.48	1.019	1.018	NO	48.2	98.8	0.235	
37	13C12-Beta-BHC	2.40e5	1.59e6	62	0.79	NO	0.1548	1.000	28.54	28.53	1.038	1.039	NO	48.0	97.6	0.205	



200125K1_1 - ST200125K1-1 1699 CS1 19K1307 - 1699 CS1 19K1307

#	Name	Resp	IS Resp	ISF	RA	RV	RF	width	Pred RT	RT	RRT	Pred RRT	Chem RRT	Conc	%Rec	DL	EMPC
20	Dieldrin	4.72e3	1.14e5	48	1.86	NO	1.0034	1.000	37.20	37.37	1.001	1.000	NO	1.89	84.4	0.0713	1.89
21	Endrin	2.55e3	6.78e4	48	1.37	NO	1.0696	1.000	38.65	39.71	1.000	1.000	NO	1.78	89.1	0.130	1.78
22	On-Hexachlor	2.37e3	5.51e4	50	1.39	NO	1.0772	1.000	38.99	39.99	1.000	1.000	NO	2.00	89.9	0.156	2.00
23	Endosulfan II (beta)	4.52e3	1.66e4	51	1.86	NO	1.1102	1.000	39.70	39.73	1.001	1.000	NO	1.25	125	0.524	1.25
24	2,4'-DDO	4.14e4	1.07e6	52	1.47	NO	1.0462	1.000	37.94	37.95	1.000	1.000	NO	1.85	82.5	0.369	1.85
25	2,4'-DDT	2.57e4	6.79e5	53	1.45	NO	1.0249	1.000	39.08	39.08	1.000	1.000	NO	1.85	92.4	0.597	1.85
26	4,4'-DDO	3.96e4	8.88e5	54	1.24	NO	1.1226	1.000	39.20	39.21	1.001	1.000	NO	1.98	99.2	0.398	1.98
27	4,4'-DDT	2.43e4	5.47e5	55	1.25	NO	1.1375	1.000	40.27	40.28	1.001	1.000	NO	1.85	97.4	0.645	1.85
28	Endosulfan Sulfate	5.66e3	2.72e4	56	1.47	NO	0.9071	1.000	41.44	41.45	1.000	1.000	NO	10.6	106	0.387	10.6
29	4,4'-Methoxychlor	1.51e5	6.22e6	57	6.15	NO	1.2668	1.000	43.33	43.32	1.000	1.000	NO	9.58	85.9	0.0610	9.58
30	Mirex	1.09e4	2.79e5	58	1.57	NO	1.0435	1.000	43.91	43.90	1.000	1.000	NO	1.86	93.2	0.0016	1.86
31	Endrin Alderide	1.22e4	5.57e5	59	0.61	NO	1.0557	1.000	40.86	40.85	1.000	1.000	NO	10.4	104	0.238	10.4
32	Endrin Ketone	9.15e3	4.59e5	60	0.65	NO	0.9741	1.000	44.01	44.05	1.001	1.000	NO	10.2	102	0.334	10.2
33	13C6-Hexachlorobenz	2.29e6	1.59e6	62	1.28	NO	0.1267	1.000	9.95	9.97	0.384	0.383	NO	568	114	0.0388	
34	13C6-Hexachlorobenz	1.08e5	1.59e6	62	1.27	NO	0.8741	1.000	27.05	27.84	0.971	0.672	NO	50.5	101	0.007	
35	13C6-Alpha DHC	4.07e5	1.59e6	62	0.80	NO	0.2848	1.000	23.19	23.17	0.892	0.892	NO	50.4	101	0.185	
36	13C6-Linens (gamma)	3.08e5	1.59e6	62	0.79	NO	0.2807	1.000	26.48	26.48	1.019	1.018	NO	48.3	96.6	0.235	
37	13C6-Beta-DHC	2.40e5	1.59e6	62	0.79	NO	0.1545	1.000	28.54	28.53	1.098	1.099	NO	48.8	97.6	0.305	



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

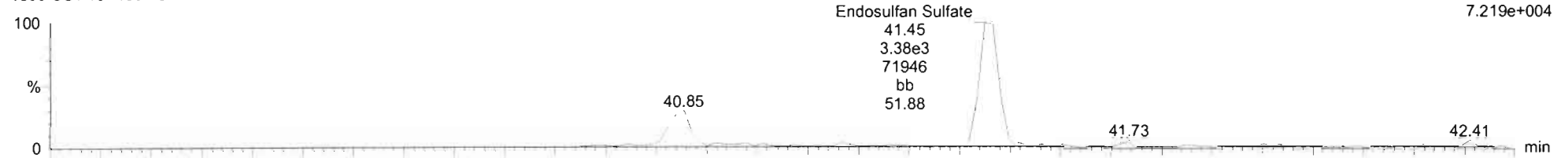
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_1, Date: 25-Jan-2020, Time: 13:03:00, ID: ST200125K1-1 1699 CS1 19K1307, Description: 1699 CS1 19K1307

Endosulfan Sulfate

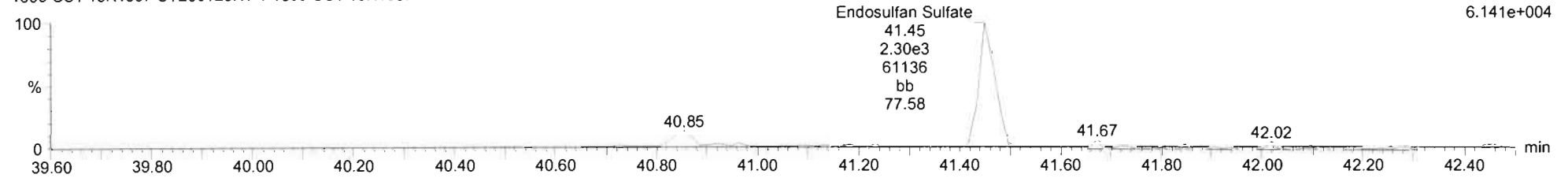
200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

F5:Voltage SIR,EI+
262.8569
7.219e+004



200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

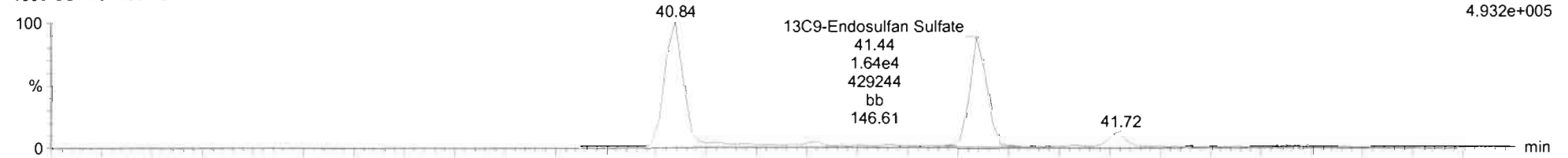
F5:Voltage SIR,EI+
264.8540
6.141e+004



13C9-Endosulfan Sulfate

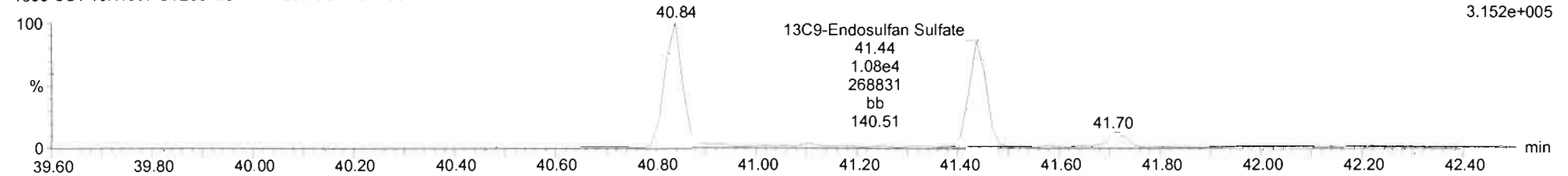
200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

F5:Voltage SIR,EI+
269.8804
4.932e+005



200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

F5:Voltage SIR,EI+
271.8775
3.152e+005



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

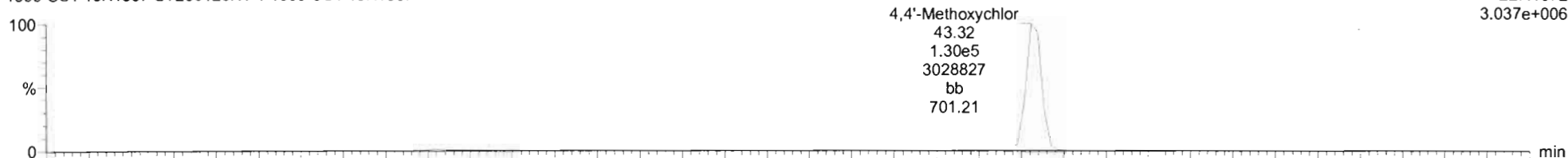
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_1, Date: 25-Jan-2020, Time: 13:03:00, ID: ST200125K1-1 1699 CS1 19K1307, Description: 1699 CS1 19K1307

4,4'-Methoxychlor

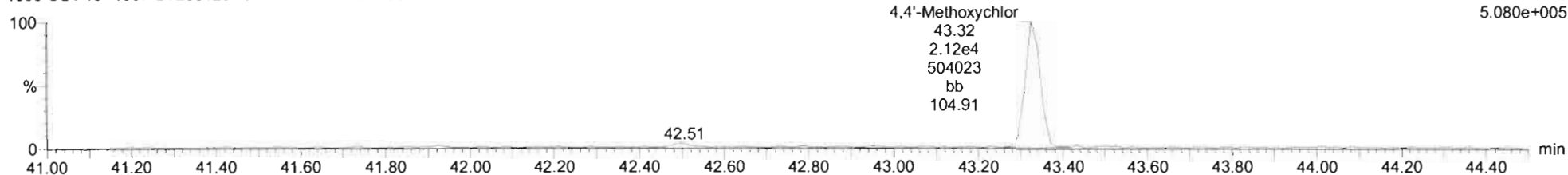
200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

F5:Voltage SIR,EI+
227.1072
3.037e+006



200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

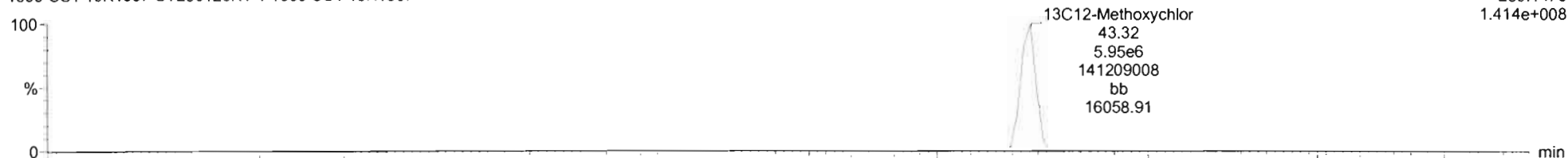
F5:Voltage SIR,EI+
228.1106
5.080e+005



13C12-Methoxychlor

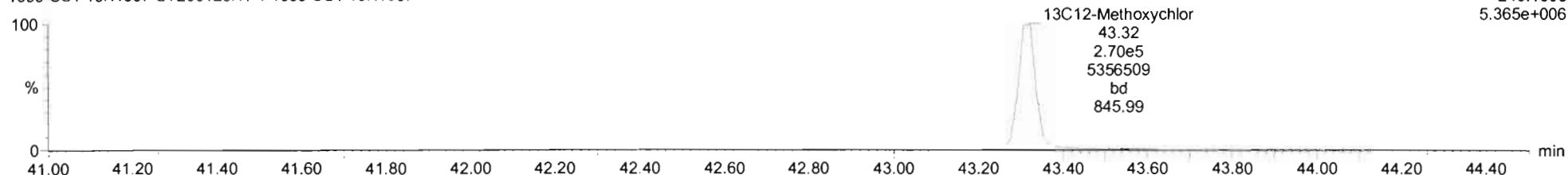
200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

F5:Voltage SIR,EI+
239.1475
1.414e+008



200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

F5:Voltage SIR,EI+
240.1508
5.365e+006



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

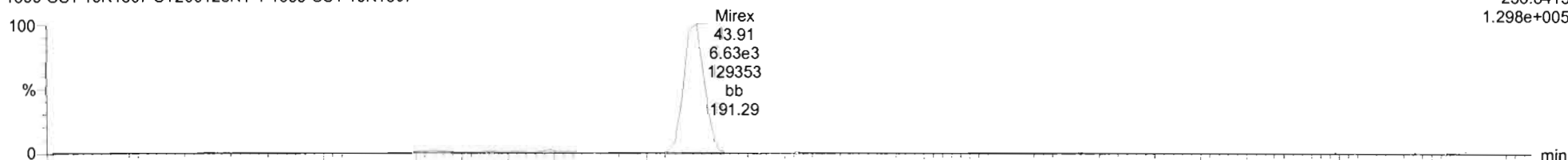
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Mirex

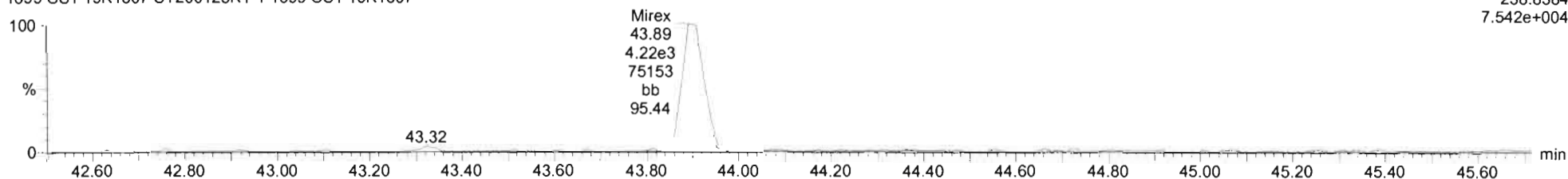
200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

F5:Voltage SIR,EI+
236.8413
1.298e+005



200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

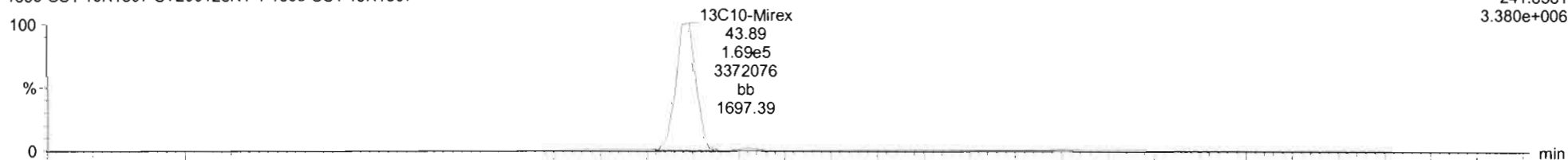
F5:Voltage SIR,EI+
238.8384
7.542e+004



13C10-Mirex

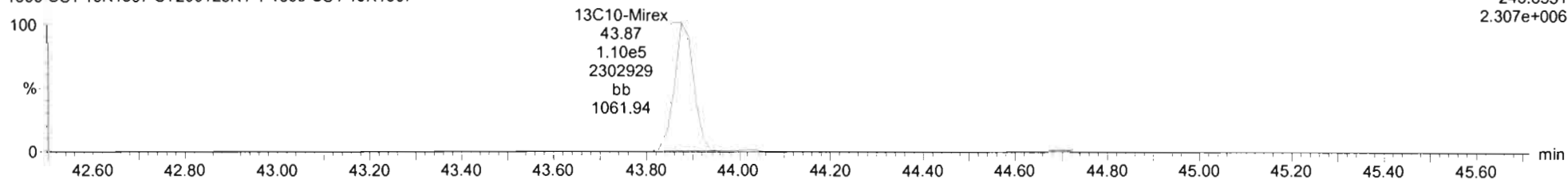
200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

F5:Voltage SIR,EI+
241.8581
3.380e+006



200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

F5:Voltage SIR,EI+
243.8551
2.307e+006



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_1, Date: 25-Jan-2020, Time: 13:03:00, ID: ST200125K1-1 1699 CS1 19K1307, Description: 1699 CS1 19K1307

EA-EK

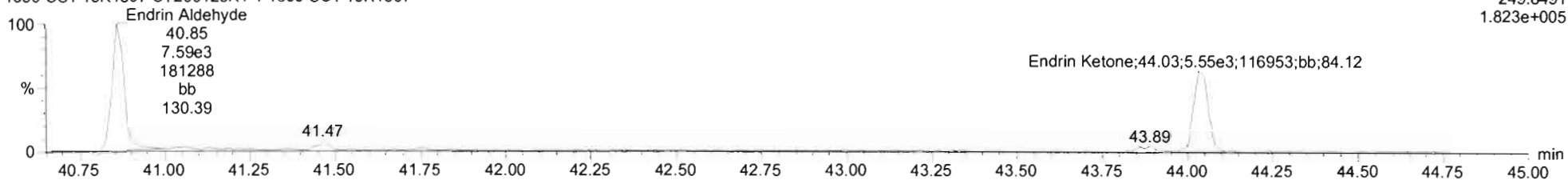
200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

F5:Voltage SIR,EI+
247.8521
1.083e+005



200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

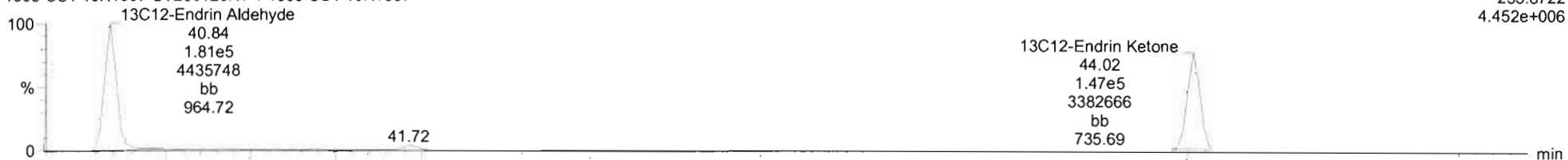
F5:Voltage SIR,EI+
249.8491
1.823e+005



EA-EK-isotopes

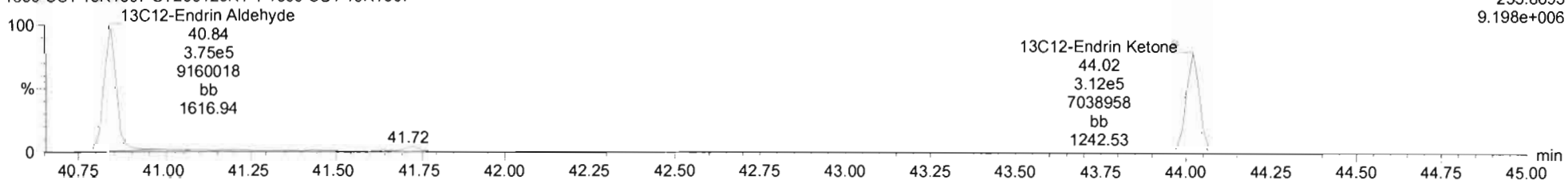
200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

F5:Voltage SIR,EI+
253.8722
4.452e+006

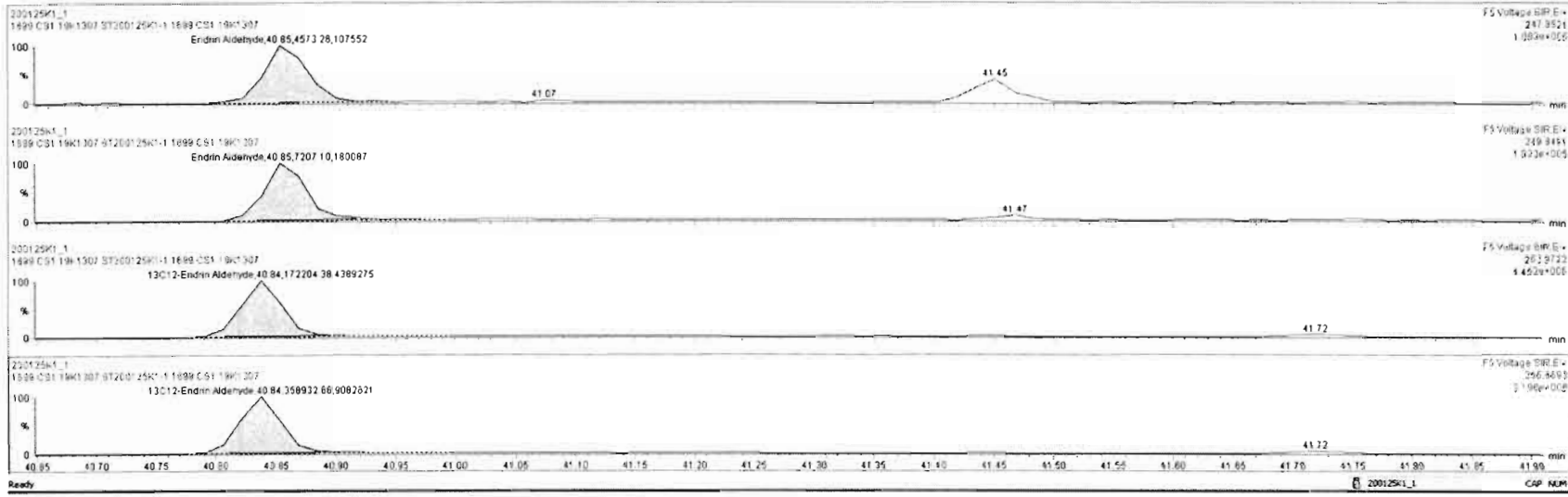


200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

F5:Voltage SIR,EI+
255.8693
9.198e+006



#	Name	Resp	IS Resp	IS#	RA	RF#	RF#	wtVol	Prod RT	RT	PRT	Prod PRT	Check PRT	Conc	%Rec	DL	EMPC
20	Endrin	4.72e3	1.14e5	48	1.66	NO	1.0924	1.000	37.20	37.31	1.001	1.000	NO	1.89	94.4	0.0713	1.99
21	Endrin	2.25e3	6.78e4	49	1.37	NO	1.0566	1.000	38.60	38.71	1.000	1.000	NO	1.78	89.1	0.130	1.78
22	Chlorobenzchlor	2.21e3	5.51e4	50	1.39	NO	1.0772	1.000	38.89	38.99	1.000	1.000	NO	2.00	99.8	0.156	2.00
23	Endosulfan I (beta)	4.62e3	1.86e4	51	1.86	NO	1.1102	1.000	39.70	39.73	1.001	1.000	NO	12.5	125	0.024	12.5
24	4:4-DDD	4.14e4	1.07e6	52	1.47	NO	1.0482	1.000	37.84	37.85	1.000	1.000	NO	1.85	92.5	0.368	1.85
25	7:4-DDT	7.57e4	6.79e5	53	1.45	NO	1.0248	1.000	38.08	38.08	1.000	1.000	NO	1.85	92.4	0.597	1.85
26	4:4-DDD	3.86e4	8.88e5	54	1.24	NO	1.1226	1.000	39.20	39.21	1.001	1.000	NO	1.99	99.2	0.398	1.99
27	4:4-DDT	2.43e4	5.47e5	55	1.25	NO	1.1376	1.000	40.27	40.28	1.001	1.000	NO	1.95	97.4	0.645	1.95
28	Endosulfan Sulfate	5.68e3	2.72e4	56	1.47	NO	0.9871	1.000	41.44	41.45	1.000	1.000	NO	10.8	106	0.387	10.6
29	4:4-Methoxychlor	1.51e5	6.22e6	57	6.15	NO	1.2668	1.000	43.33	43.32	1.000	1.000	NO	9.59	95.9	0.0610	9.59
30	Mirex	1.09e4	2.79e5	58	1.57	NO	1.0435	1.000	43.91	43.90	1.000	1.000	NO	1.86	93.2	0.0316	1.86
31	Endrin Alderhyde	1.18e4	5.31e5	59	0.83	NO	1.0567	1.000	40.86	40.85	1.000	1.000	NO	10.5	105	0.240	10.5
32	Endrin Ketone	9.15e3	4.59e5	60	0.85	NO	0.9741	1.000	44.01	44.05	1.001	1.000	NO	10.2	102	0.334	10.2
33	13C12-Hexachlorobutadi	2.25e6	1.59e6	62	1.28	NO	0.1267	1.000	9.85	9.97	0.384	0.383	NO	569	114	0.0369	
34	13C12-Hexachlorobenz	1.07e6	1.59e6	62	1.27	NO	0.0741	1.000	22.86	22.84	0.871	0.872	NO	50.5	101	0.007	
35	13C12-Alpha-DHC	4.07e5	1.59e6	62	0.80	NO	0.2548	1.000	23.19	23.17	0.882	0.882	NO	50.4	101	0.185	
36	13C12-Lindera (gamma)	3.06e5	1.59e6	62	0.79	NO	0.2007	1.000	26.46	26.48	1.019	1.018	NO	48.3	98.6	0.235	
37	13C12-Delta-DHC	2.40e5	1.59e6	62	0.79	NO	0.1546	1.000	29.54	29.53	1.008	1.006	NO	48.8	97.6	0.306	



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

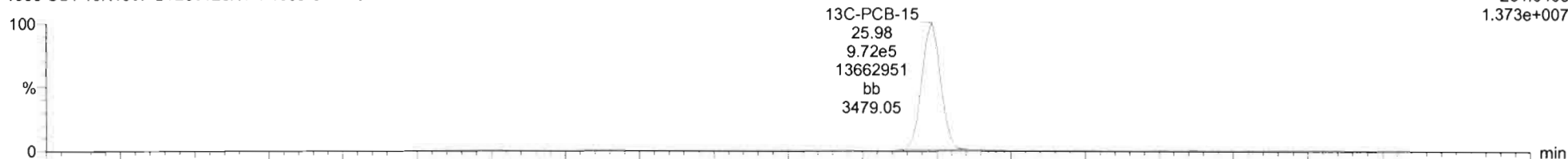
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Name: 200125K1_1, Date: 25-Jan-2020, Time: 13:03:00, ID: ST200125K1-1 1699 CS1 19K1307, Description: 1699 CS1 19K1307

13C-PCB-15

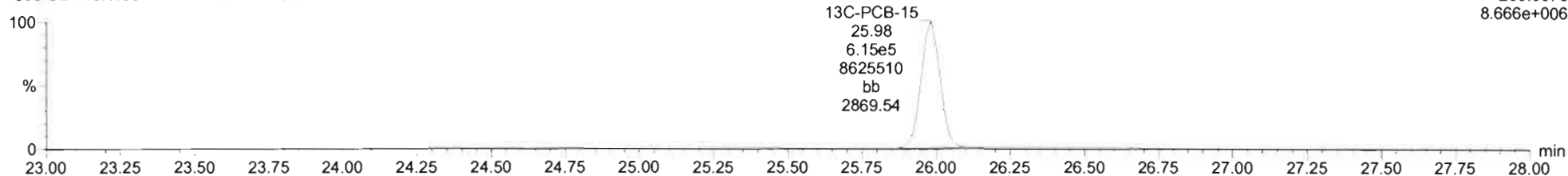
200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

F2:Voltage SIR,EI+
234.0406
1.373e+007



200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

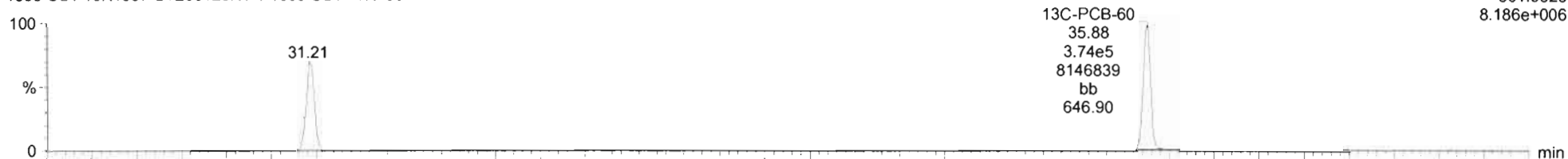
F2:Voltage SIR,EI+
236.0376
8.666e+006



13C-PCB-60

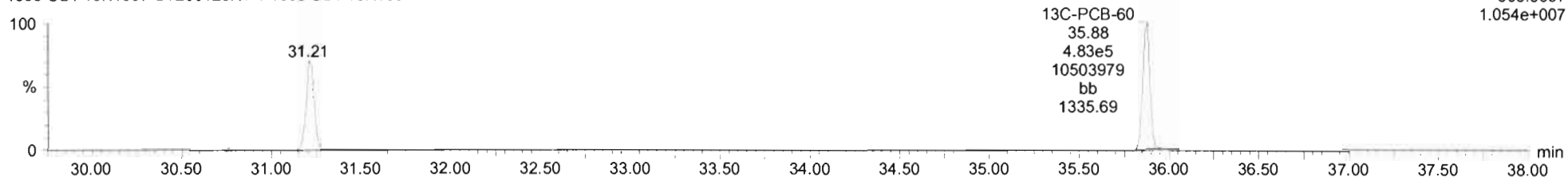
200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

F3:Voltage SIR,EI+
301.9626
8.186e+006



200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

F3:Voltage SIR,EI+
303.9597
1.054e+007



Dataset: Untitled

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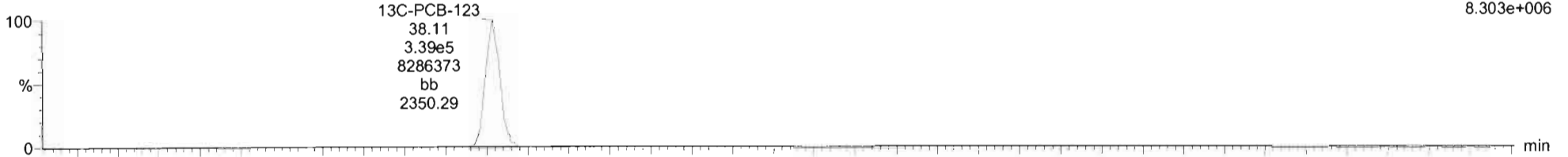
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13C-PCB-123

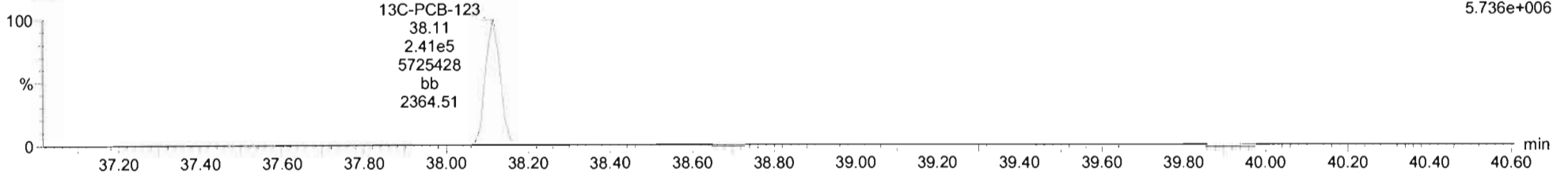
200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

F4:Voltage SIR,EI+
337.9210
8.303e+006



200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

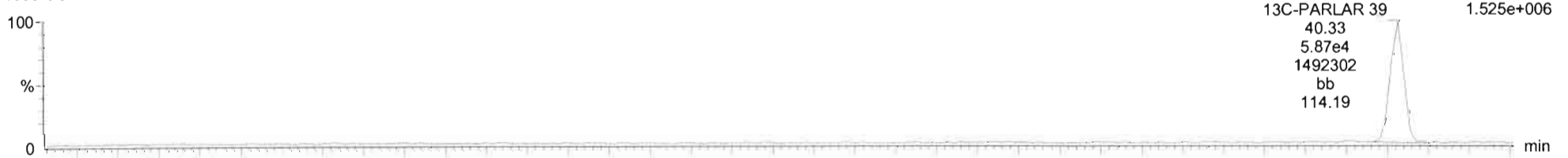
F4:Voltage SIR,EI+
339.9180
5.736e+006



13C-PARLAR 39

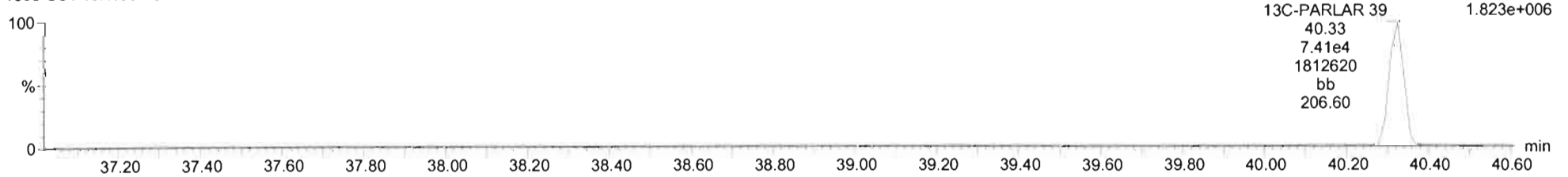
200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

F4:Voltage SIR,EI+
251.9648
1.525e+006



200125K1_1
1699 CS1 19K1307 ST200125K1-1 1699 CS1 19K1307

F4:Voltage SIR,EI+
253.9619
1.823e+006



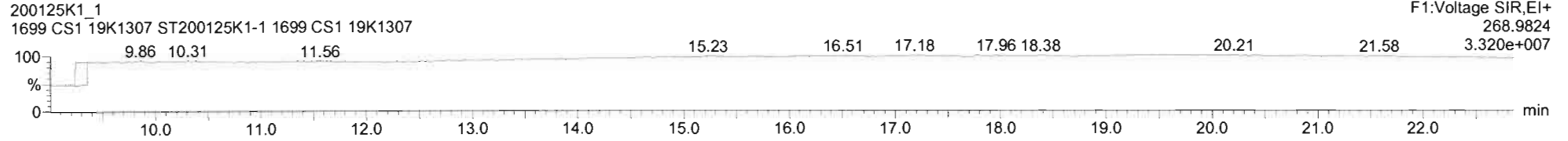
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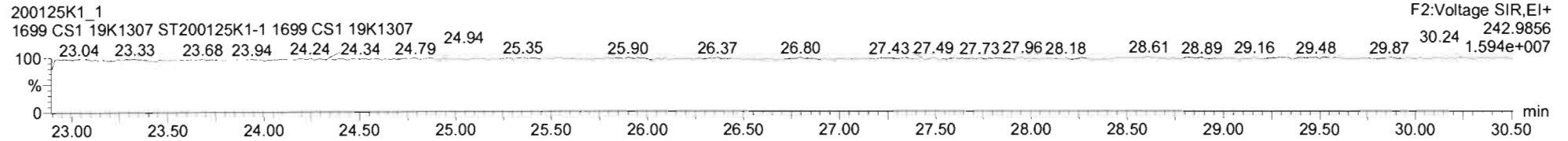
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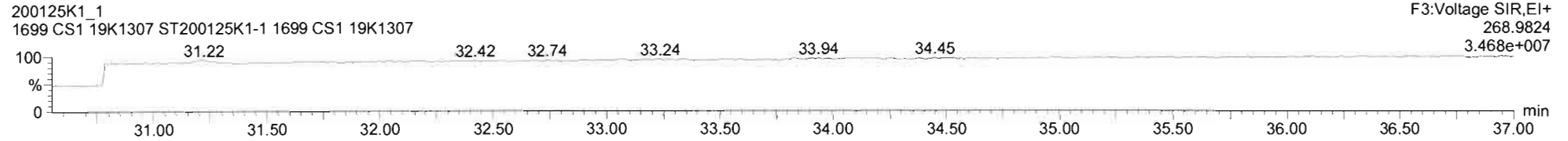
PFK1



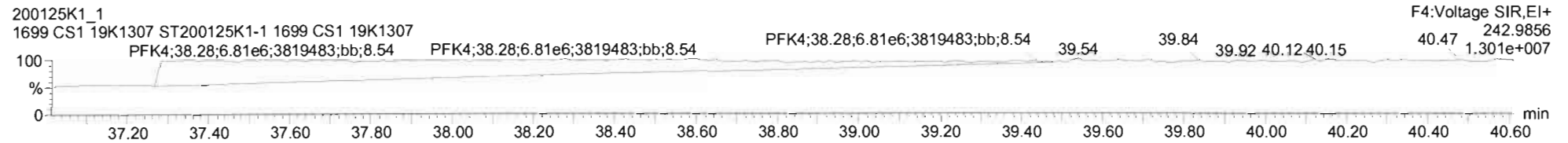
PFK2



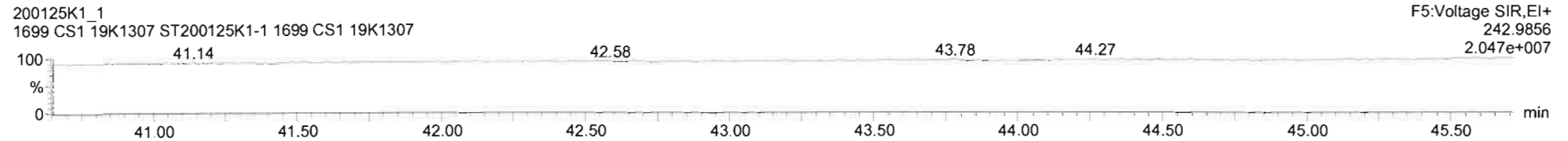
PFK3



PFK4



PFK5



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

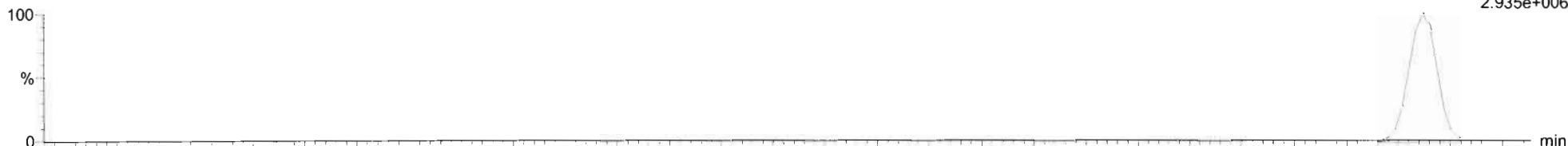
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Hexachlorobenzene

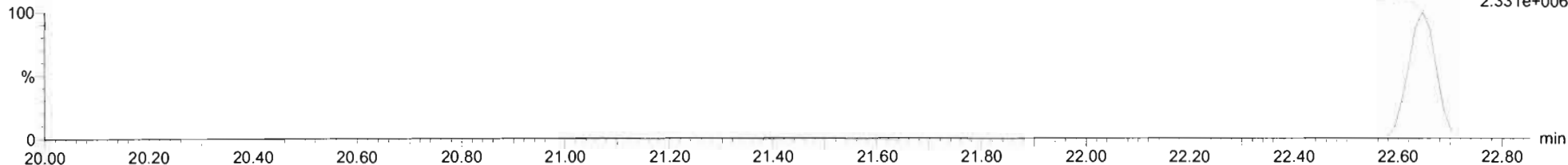
200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

F1:Voltage SIR,EI+
Hexachlorobenzene;22.65;1.84e5;2931308;bb;8304.45
283.8102
2.935e+006



200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

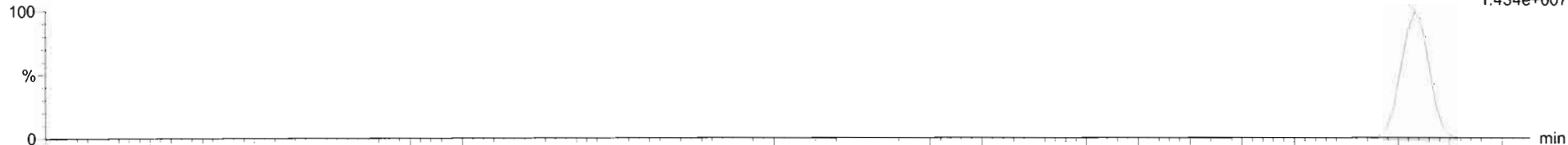
F1:Voltage SIR,EI+
Hexachlorobenzene;22.65;1.46e5;2328197;bb;4924.89
285.8072
2.331e+006



13C6-Hexachlorobenzene

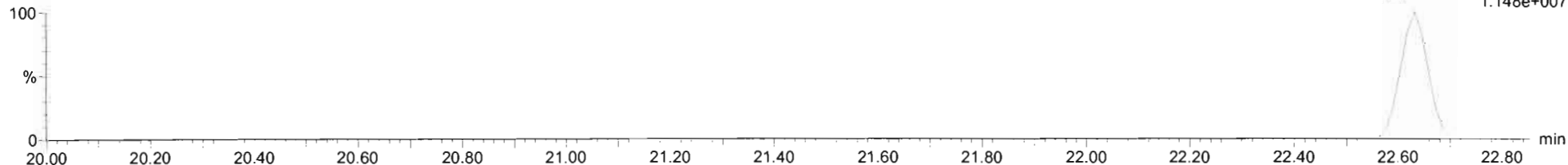
200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

F1:Voltage SIR,EI+
13C6-Hexachlorobenzene;22.63;8.92e5;14320207;bb;46923.44
289.8303
1.434e+007



200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

F1:Voltage SIR,EI+
13C6-Hexachlorobenzene;22.63;7.00e5;11468903;bb;21473.69
291.8273
1.148e+007



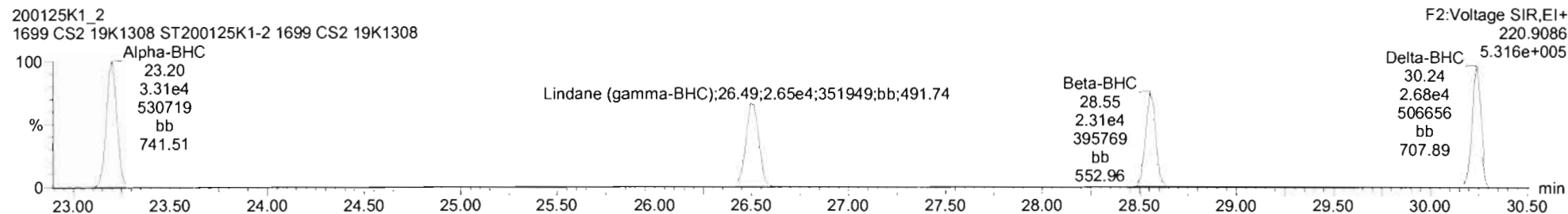
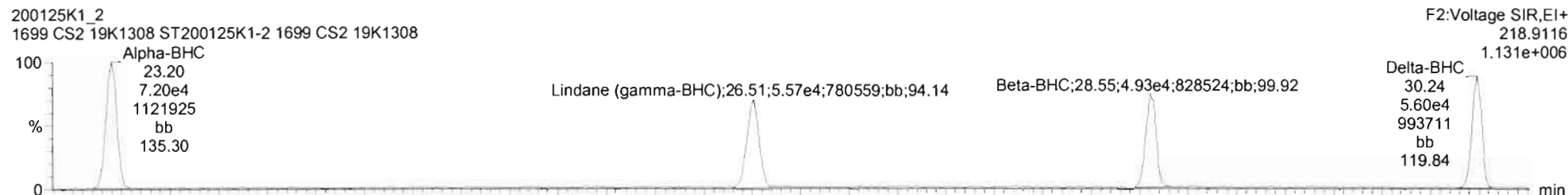
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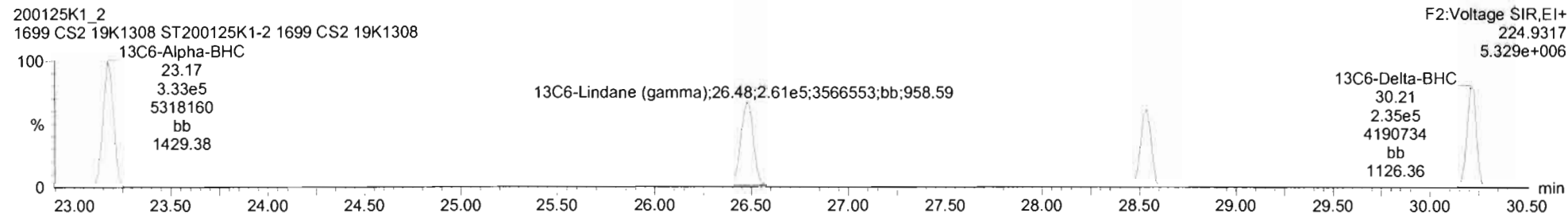
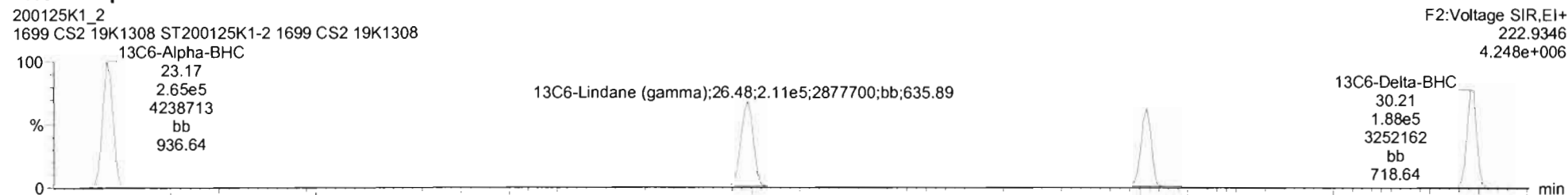
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Name: 200125K1_2, Date: 25-Jan-2020, Time: 13:58:18, ID: ST200125K1-2 1699 CS2 19K1308, Description: 1699 CS2 19K1308

BHC Totals



BHC-isotopes



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

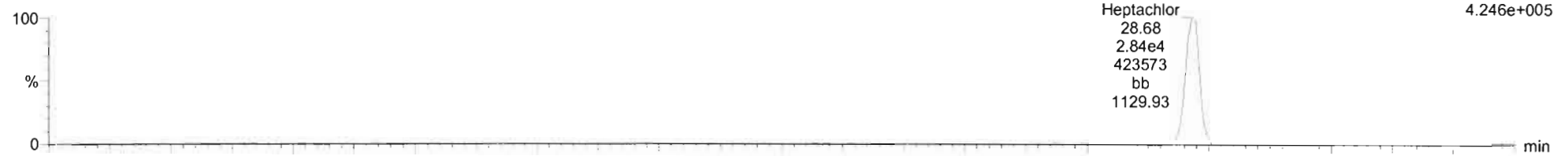
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Name: 200125K1_2, Date: 25-Jan-2020, Time: 13:58:18, ID: ST200125K1-2 1699 CS2 19K1308, Description: 1699 CS2 19K1308

Heptachlor

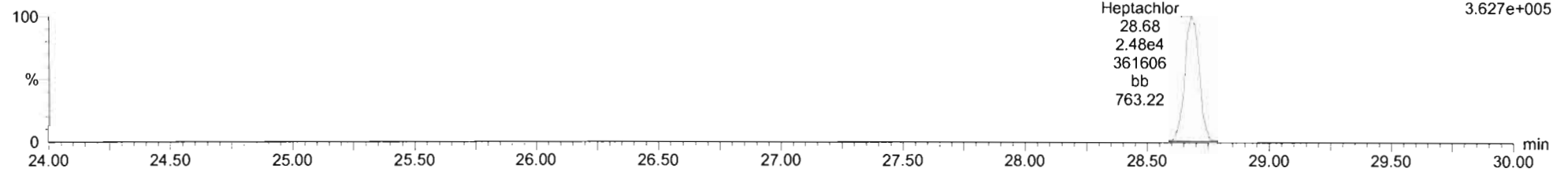
200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

F2:Voltage SIR,EI+
271.8102
4.246e+005



200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

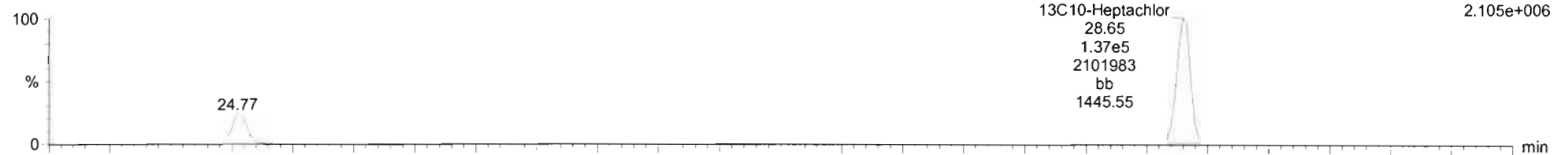
F2:Voltage SIR,EI+
273.8072
3.627e+005



13C10-Heptachlor

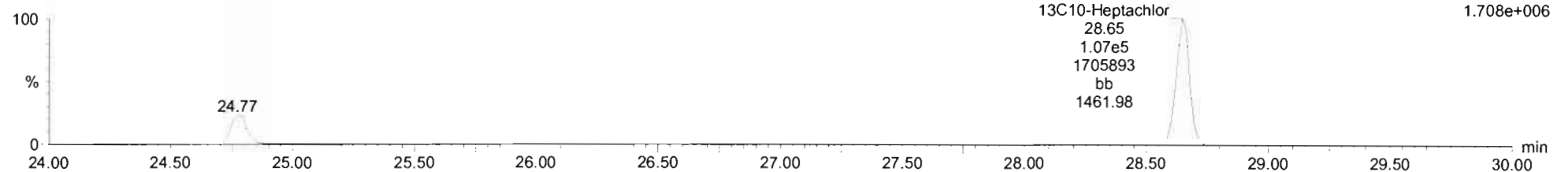
200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

F2:Voltage SIR,EI+
276.8269
2.105e+006



200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

F2:Voltage SIR,EI+
278.8240
1.708e+006



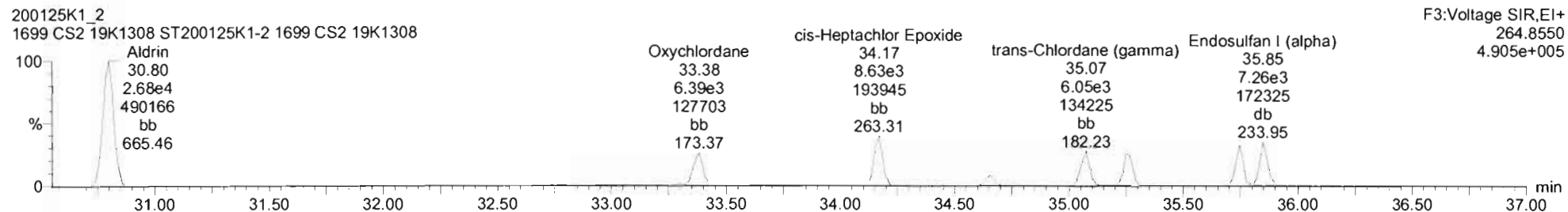
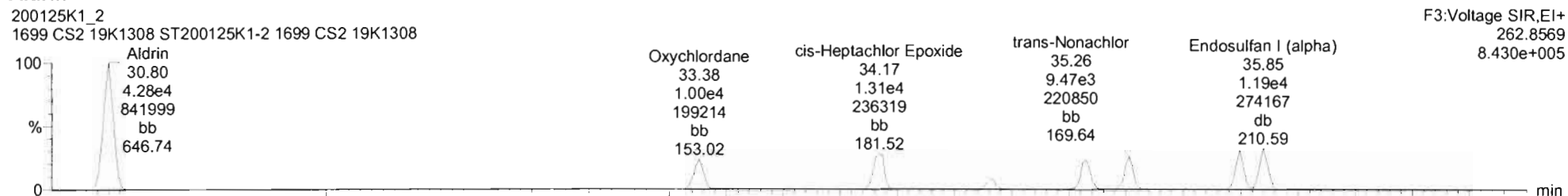
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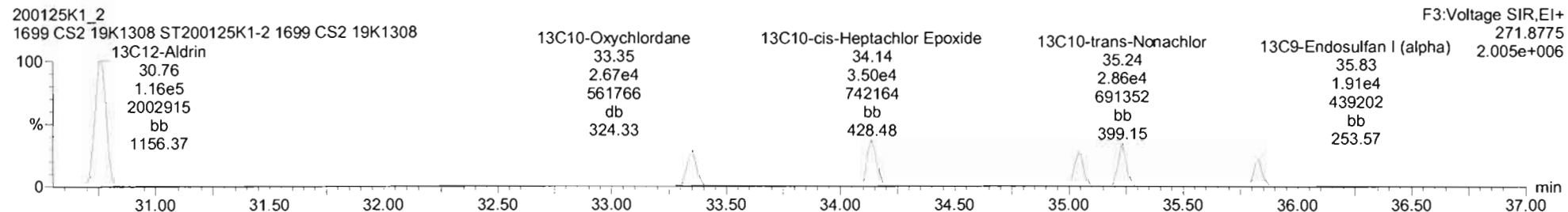
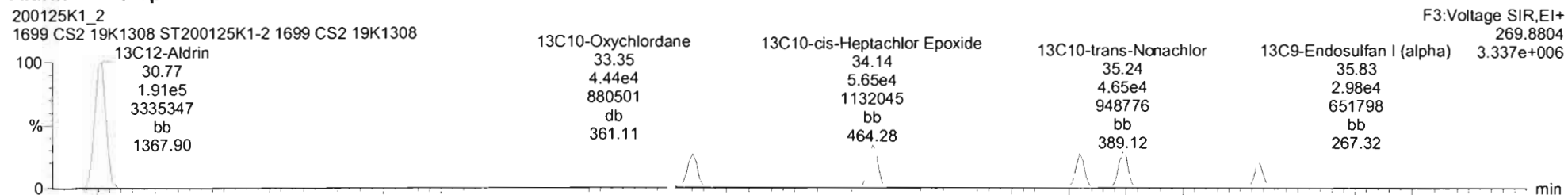
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Name: 200125K1_2, Date: 25-Jan-2020, Time: 13:58:18, ID: ST200125K1-2 1699 CS2 19K1308, Description: 1699 CS2 19K1308

Aldrin-EI

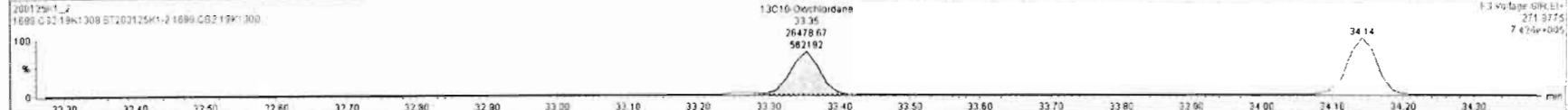
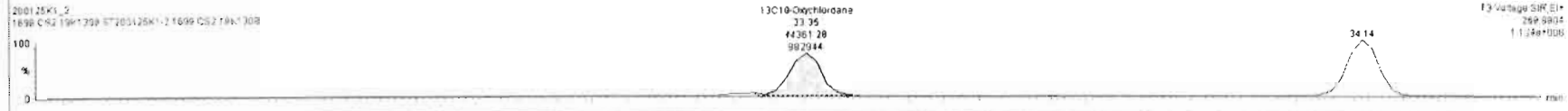
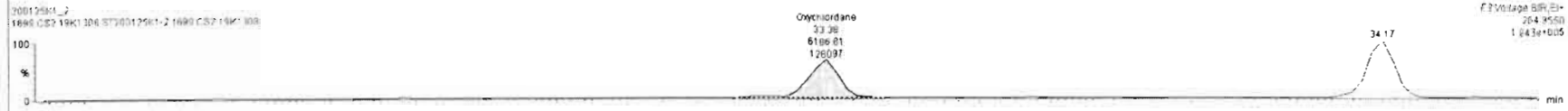
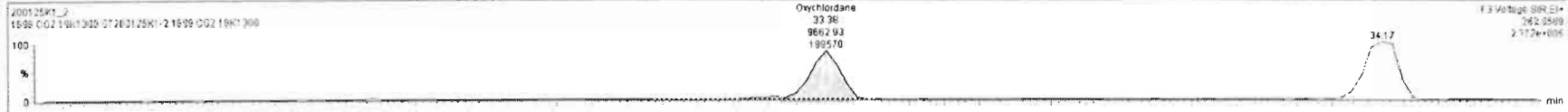


Aldrin-EI-isotopes



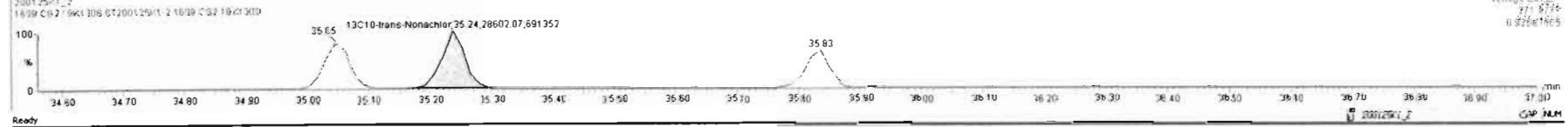
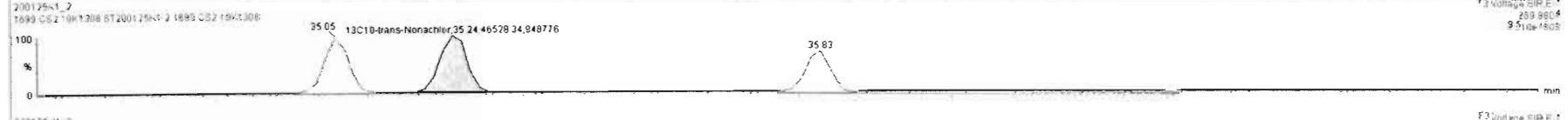
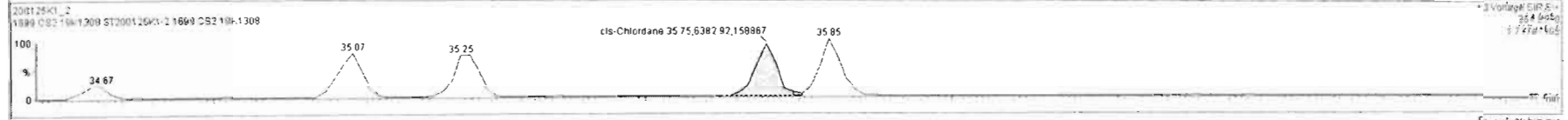
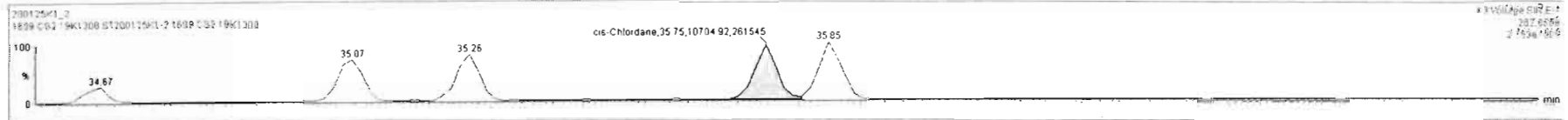
200125K1_2 - ST200 25K1_2 1699 C52 19K1308 - 1699 C52 19K1308

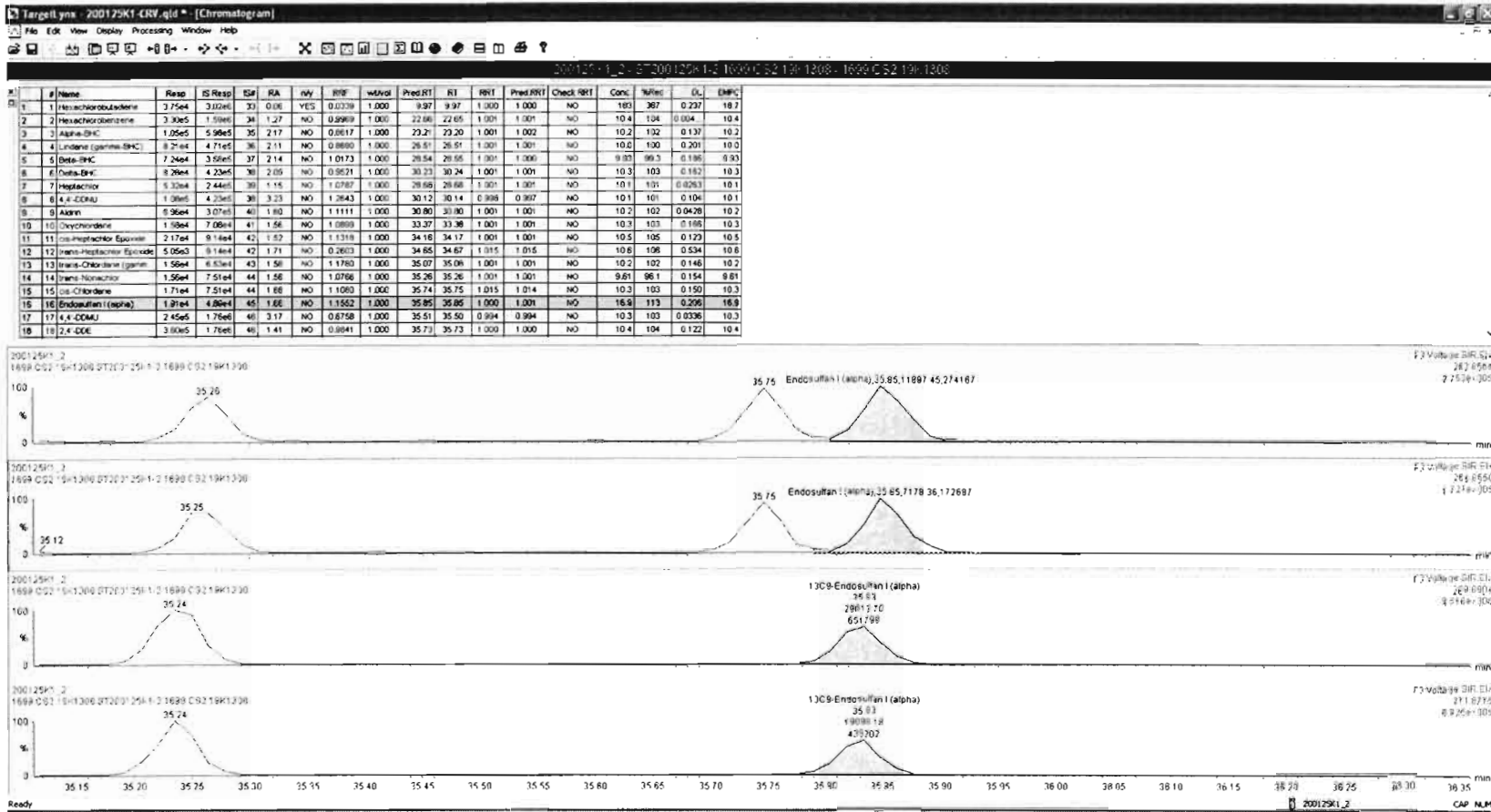
#	Name	Resp	IS Resp	IS#	RA	nly	RRF	wt/wt	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	Hexachlorobenzene	3.75e4	3.02e1	33	0.06	YES	0.0326	1.000	9.97	9.97	1.000	1.000	NO	183	367	0.237	16.7
2	Hexachlorobenzene	3.30e5	1.58e1	34	1.27	NO	0.9669	1.000	22.66	22.65	1.001	1.001	NO	10.4	104	0.004	10.4
3	Alpha-BHC	1.05e5	5.98e1	35	2.17	NO	0.9617	1.000	23.21	23.20	1.001	1.002	NO	10.2	102	0.137	10.2
4	Lindane (gamma-BHC)	8.21e4	4.71e1	36	2.11	NO	0.8690	1.000	26.51	26.51	1.001	1.001	NO	19.0	100	0.201	10.0
5	Beta-BHC	7.24e4	3.58e1	37	2.14	NO	1.0173	1.000	28.54	28.55	1.001	1.000	NO	9.93	99.3	0.186	9.93
6	Delta-BHC	8.29e4	4.23e1	38	2.09	NO	0.9521	1.000	30.23	30.24	1.001	1.001	NO	10.3	103	0.162	10.3
7	Heptachlor	5.32e4	2.44e1	39	1.15	NO	1.0787	1.000	28.68	28.68	1.001	1.001	NO	10.1	101	0.0263	10.1
8	4'-DDMU	1.08e5	4.23e1	38	3.23	NO	1.2643	1.000	30.12	30.14	0.999	0.997	NO	10.1	101	0.104	10.1
9	Aladin	6.95e4	3.07e1	40	1.60	NO	1.1111	1.000	30.80	30.80	1.001	1.001	NO	10.2	102	0.0428	10.2
10	Oxychloridane	1.58e4	7.08e1	41	1.56	NO	1.0699	1.000	33.37	33.38	1.001	1.001	NO	10.3	103	0.166	10.3
11	cis-Heptachlor Epoxide	2.17e4	9.14e1	42	1.52	NO	1.1318	1.000	34.18	34.17	1.001	1.001	NO	10.5	105	0.123	10.5
12	trans-Heptachlor Epoxide	5.05e3	9.14e1	42	1.71	NO	0.2603	1.000	34.65	34.67	1.015	1.015	NO	10.6	106	0.634	10.6
13	trans-Chlordane (genex)	1.55e4	6.53e1	43	1.58	NO	1.1790	1.000	35.07	35.08	1.001	1.001	NO	10.2	102	0.146	10.2
14	trans-Nonachlor	1.55e4	6.53e1	44	1.58	NO	1.0786	1.000	35.26	35.26	1.001	1.001	NO	9.81	98.1	0.154	9.81
15	cis-Chlordane	1.63e4	7.51e1	44	1.72	NO	1.1056	1.000	35.74	35.75	1.015	1.014	NO	10.2	102	0.150	10.2
16	Endosulfan I (alpha)	1.92e4	4.89e1	45	1.64	NO	1.1566	1.000	35.85	35.85	1.000	1.001	NO	16.8	113	0.200	16.9
17	4'-DDMU	2.45e5	1.78e1	46	3.17	NO	0.8758	1.000	35.51	35.50	0.994	0.984	NO	10.3	103	0.0336	10.3
18	2,4-DDC	3.50e5	1.78e1	46	1.41	NO	0.9841	1.000	35.73	35.73	1.000	1.000	NO	10.4	104	0.122	10.4



200125K1_2 - ST200125K1-2 1699 CS2 19K 1308 1699 CS2 19K 1308

#	Name	Reso	IS Resp	IS#	RA	nly	RRF	wtAvt	Pred RT	RT	PRT	Pred PRT	Check PRT	Conc.	%Rec	DL	EMPC
1	Hexachlorobutadiene	3.75e4	3.02e6	33	0.06	YES	0.0339	1.000	9.97	9.97	1.000	1.000	NO	183	367	0.237	16.7
2	Hexachlorobenzene	3.30e5	1.59e6	34	1.27	NO	0.9908	1.000	22.66	22.65	1.001	1.001	NO	10.4	104	0.004	10.4
3	Alpha-BHC	1.05e5	5.96e5	35	2.17	NO	0.9617	1.000	23.21	23.20	1.001	1.002	NO	10.2	102	0.137	10.2
4	Gamma-BHC	8.21e4	4.71e5	36	2.11	NO	0.8690	1.000	26.51	26.51	1.001	1.001	NO	10.0	100	0.201	10.0
5	Beta-BHC	7.24e4	3.58e5	37	2.14	NO	1.0173	1.000	26.54	26.55	1.001	1.000	NO	9.93	99.3	0.106	9.93
6	Delta-BHC	6.28e4	4.23e5	38	2.03	NO	0.9521	1.000	30.23	30.24	1.001	1.001	NO	10.3	103	0.162	10.3
7	Heptachlor	5.32e4	2.44e5	39	1.15	NO	1.0787	1.000	28.68	28.68	1.001	1.001	NO	10.1	101	0.0263	10.1
8	4,4'-DDNU	1.08e5	4.23e5	38	3.23	NO	1.2643	1.000	30.12	30.14	0.996	0.997	NO	10.1	101	0.104	10.1
9	Alkin	6.06e4	3.07e5	40	1.80	NO	1.1111	1.000	30.80	30.80	1.001	1.001	NO	10.2	102	0.0426	10.2
10	Oxychloridane	1.58e4	7.06e4	41	1.56	NO	1.0699	1.000	33.37	33.36	1.001	1.001	NO	10.3	103	0.186	10.3
11	cis-Heptachlor Epoxide	2.17e4	9.14e4	42	1.52	NO	1.1316	1.000	34.16	34.17	1.001	1.001	NO	10.5	105	0.123	10.5
12	trans-Heptachlor Epoxide	5.05e3	9.14e4	42	1.71	NO	0.2603	1.000	34.65	34.67	1.015	1.015	NO	10.6	106	0.534	10.6
13	trans-Chlordane (gemm.)	1.56e4	6.53e4	43	1.58	NO	1.1780	1.000	35.07	35.08	1.001	1.001	NO	10.2	102	0.146	10.2
14	trans-Nonachlor	1.56e4	7.51e4	44	1.56	NO	1.0766	1.000	35.26	35.26	1.001	1.001	NO	9.61	96.1	0.154	9.61
15	cis-Chlordane	1.71e4	7.51e4	44	1.88	NO	1.1080	1.000	35.74	35.75	1.015	1.014	NO	10.3	103	0.150	10.3
16	Endosulfon I (alpha)	1.92e4	4.89e4	45	1.64	NO	1.1566	1.000	35.85	35.85	1.000	1.001	NO	16.9	113	0.209	16.9
17	4,4'-DDMU	2.45e5	1.76e6	46	3.17	NO	0.6756	1.000	35.51	35.50	0.994	0.994	NO	10.3	103	0.0336	10.3
18	2,4'-DDE	3.60e5	1.76e6	46	1.41	NO	0.9841	1.000	35.73	35.73	1.000	1.000	NO	10.4	104	0.122	10.4





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Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

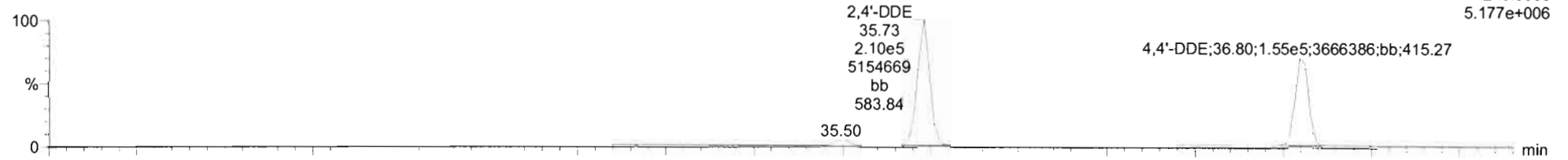
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_2, Date: 25-Jan-2020, Time: 13:58:18, ID: ST200125K1-2 1699 CS2 19K1308, Description: 1699 CS2 19K1308

DDMU-DDE

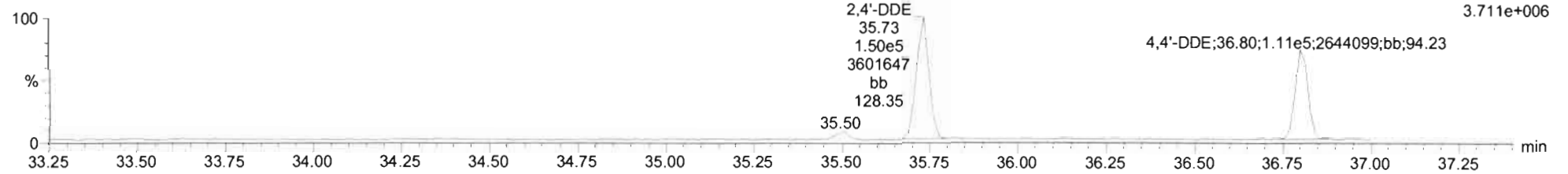
200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

F3:Voltage SIR,EI+
246.0003
5.177e+006



200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

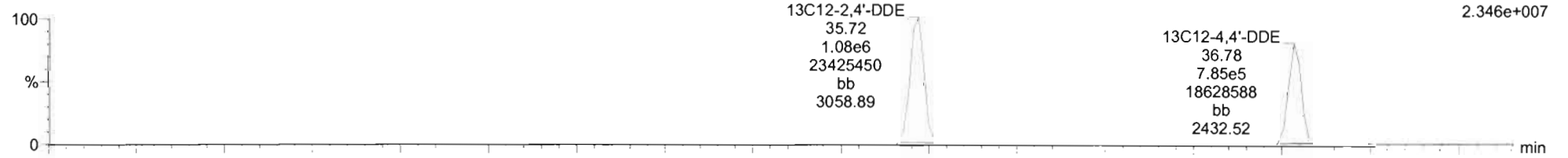
F3:Voltage SIR,EI+
247.9974
3.711e+006



DDE-isotopes

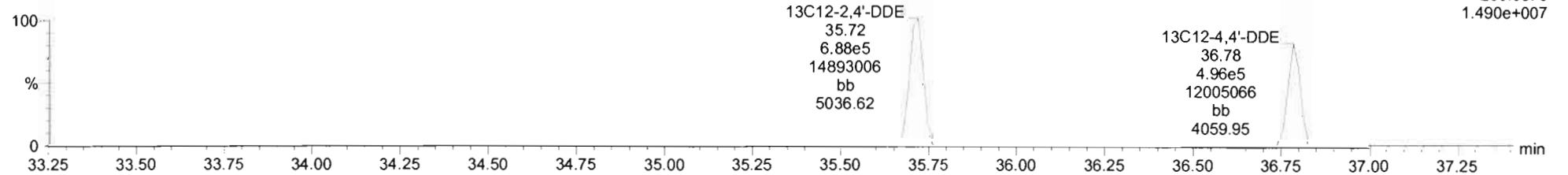
200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

F3:Voltage SIR,EI+
258.0406
2.346e+007



200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

F3:Voltage SIR,EI+
260.0376
1.490e+007



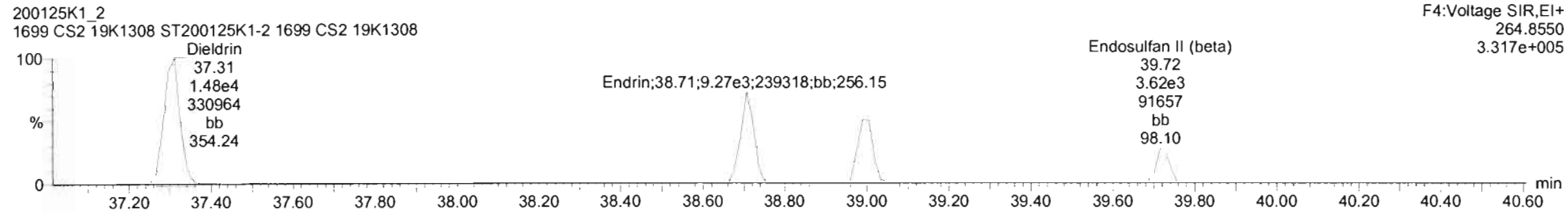
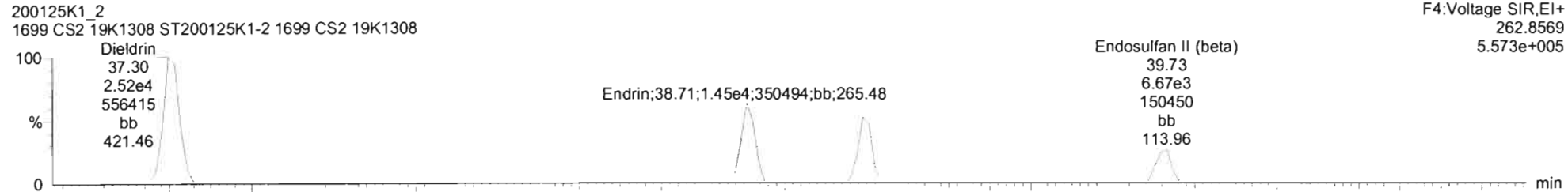
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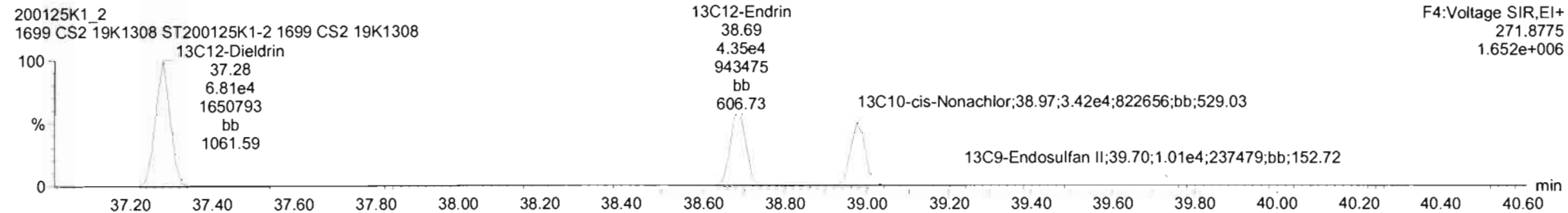
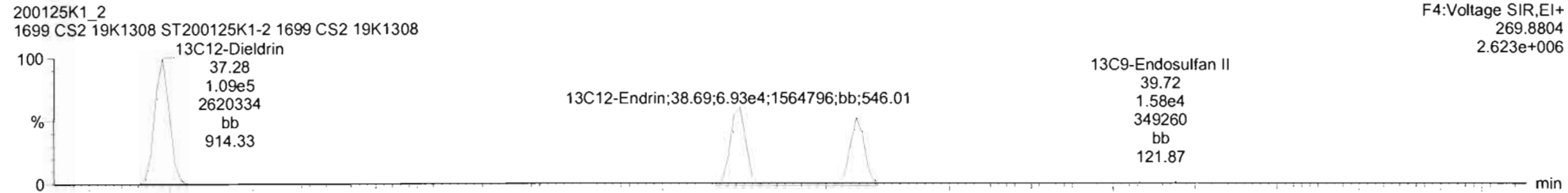
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_2, Date: 25-Jan-2020, Time: 13:58:18, ID: ST200125K1-2 1699 CS2 19K1308, Description: 1699 CS2 19K1308

Dieldrin-ElI



Dieldrin-ElI-isotopes

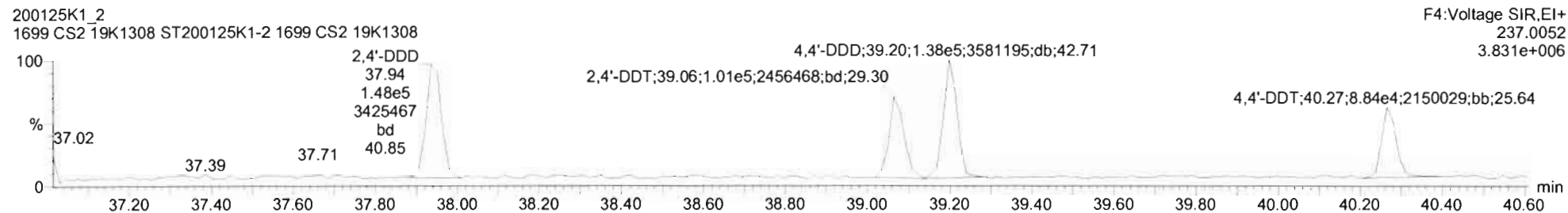
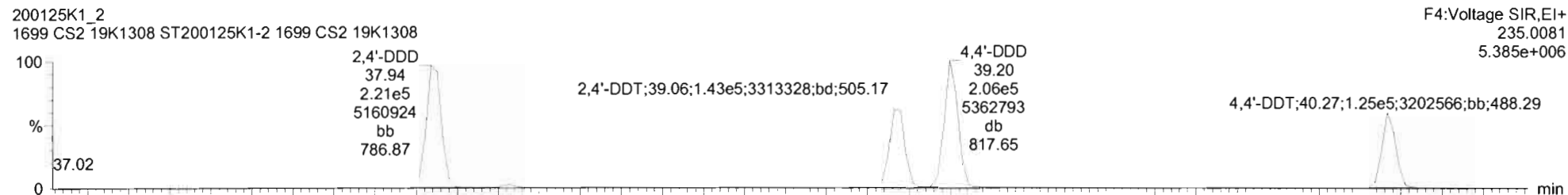


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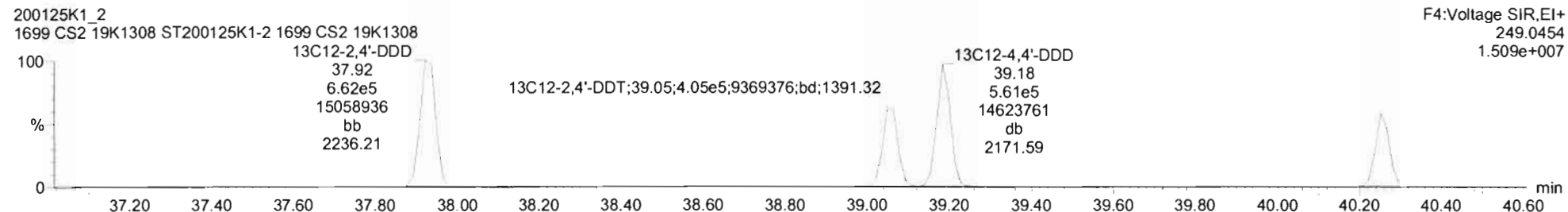
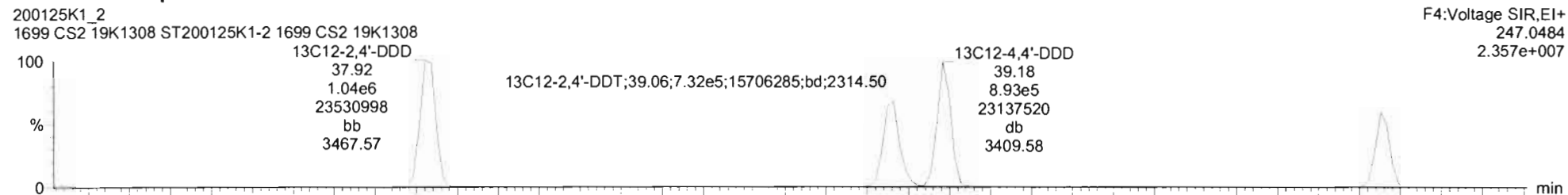
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Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_2, Date: 25-Jan-2020, Time: 13:58:18, ID: ST200125K1-2 1699 CS2 19K1308, Description: 1699 CS2 19K1308

DDD-DDT

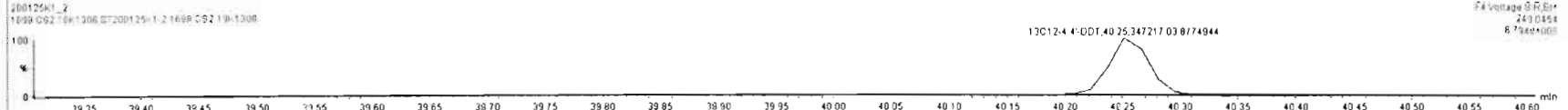


DDD-DDT-isotopes



200125K1_2 - ST200125K1-2 1699 CS2 12K 1308 - 1699 CS2 19K 1308

#	Name	Resp	IS Resp	ES	FA	My	RF	Wt/Std	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	EMPC	
20	20	3.99e4	1.77e5	46	1.70	NO	1.0934	1.000	37.30	37.30	1.000	1.000	1.000	NO	103	103	0.0605	10.3
21	21	2.36e4	1.13e5	49	1.58	NO	1.0586	1.000	38.69	38.71	1.000	1.000	1.000	NO	9.96	99.6	0.105	9.96
22	22	1.92e4	8.89e4	50	1.58	NO	1.0772	1.000	38.99	38.99	1.000	1.000	1.000	NO	10.0	100	0.118	10.0
23	23	1.03e4	2.59e4	51	1.84	NO	1.1102	1.000	39.72	39.73	1.000	1.000	1.000	NO	17.9	119	0.442	17.9
24	24	3.69e5	1.70e6	52	1.49	NO	1.0492	1.000	37.92	37.94	1.000	1.000	1.000	NO	10.3	103	0.290	10.3
25	25	2.42e5	1.14e6	53	1.42	NO	1.0248	1.000	38.06	38.06	1.000	1.000	1.000	NO	10.4	104	0.452	10.4
26	26	3.44e5	1.45e6	54	1.50	NO	1.1226	1.000	39.20	39.20	1.000	1.000	1.000	NO	10.5	105	0.267	10.5
27	27	2.10e5	9.04e5	55	1.40	NO	1.1338	1.000	40.27	40.27	1.000	1.000	1.000	NO	10.2	102	0.443	10.2
28	28	1.33e4	4.42e4	56	1.45	NO	1.0871	1.000	41.44	41.45	1.000	1.000	1.000	NO	15.2	101	0.272	15.2
29	29	1.02e5	1.04e7	57	1.15	NO	1.2668	1.000	43.33	43.32	1.000	1.000	1.000	NO	15.5	103	0.0437	15.5
30	30	9.44e4	4.20e5	58	1.56	NO	1.0435	1.000	43.90	43.91	1.001	1.000	1.000	NO	19.4	104	0.0337	19.4
31	31	2.36e4	9.47e5	59	0.83	NO	1.0557	1.000	40.86	40.85	1.000	1.000	1.000	NO	14.8	99.4	0.192	14.8
32	32	2.32e4	7.73e5	60	0.88	NO	0.9741	1.000	44.02	44.03	1.000	1.000	1.000	NO	15.5	103	0.271	15.5
33	33	3.02e6	2.37e6	62	1.27	NO	1.1287	1.000	9.95	9.97	0.384	0.383	0.383	NO	503	101	0.0290	
34	34	1.59e6	2.37e6	62	1.27	NO	0.9741	1.000	22.86	22.84	0.871	0.872	0.872	NO	49.8	99.8	0.004	
35	35	5.98e5	2.37e6	62	0.79	NO	0.2548	1.000	23.19	23.17	0.892	0.892	0.892	NO	49.5	99.1	0.126	
36	36	4.71e5	2.37e6	62	0.81	NO	0.2007	1.000	26.46	26.45	1.019	1.018	1.018	NO	49.6	99.1	0.160	
37	37	3.58e5	2.37e6	62	0.79	NO	0.1546	1.000	28.54	28.53	1.098	1.099	1.099	NO	49.9	87.7	0.207	



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

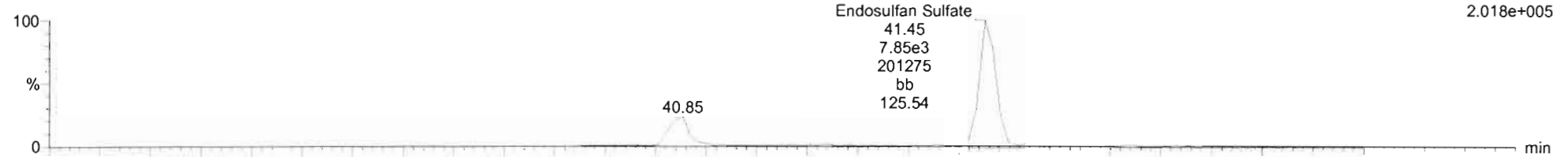
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_2, Date: 25-Jan-2020, Time: 13:58:18, ID: ST200125K1-2 1699 CS2 19K1308, Description: 1699 CS2 19K1308

Endosulfan Sulfate

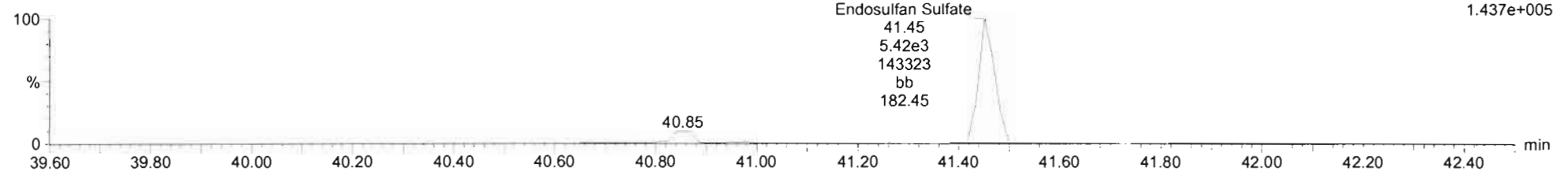
200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

F5:Voltage SIR,EI+
262.8569
2.018e+005



200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

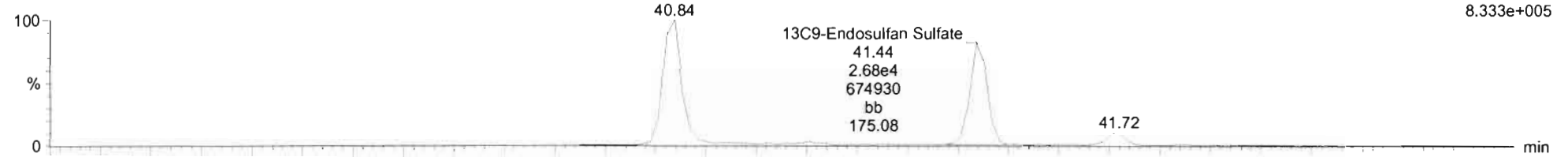
F5:Voltage SIR,EI+
264.8540
1.437e+005



13C9-Endosulfan Sulfate

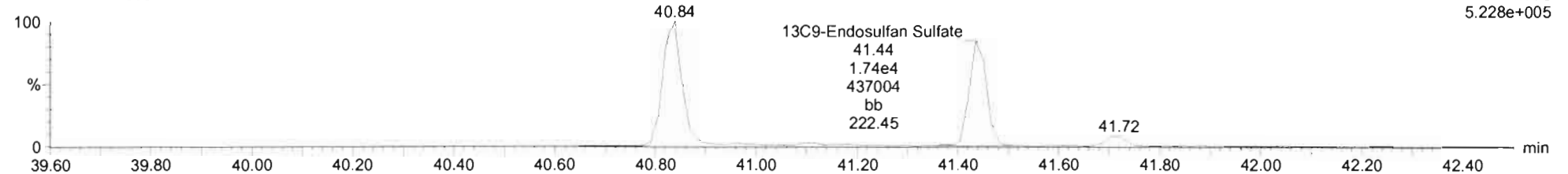
200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

F5:Voltage SIR,EI+
269.8804
8.333e+005



200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

F5:Voltage SIR,EI+
271.8775
5.228e+005



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

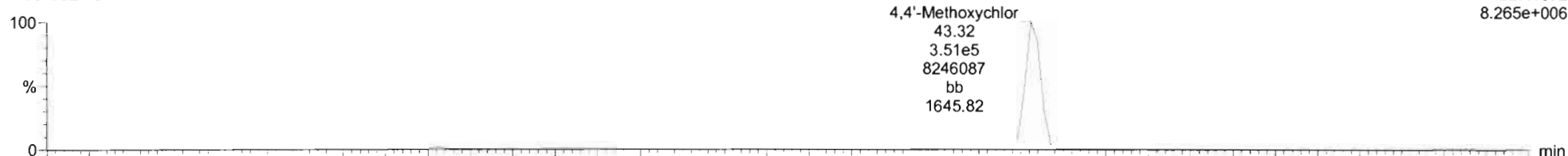
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_2, Date: 25-Jan-2020, Time: 13:58:18, ID: ST200125K1-2 1699 CS2 19K1308, Description: 1699 CS2 19K1308

4,4'-Methoxychlor

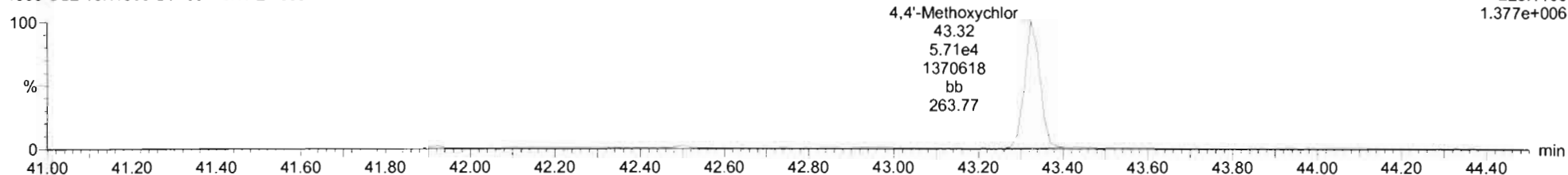
200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

F5:Voltage SIR,EI+
227.1072
8.265e+006



200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

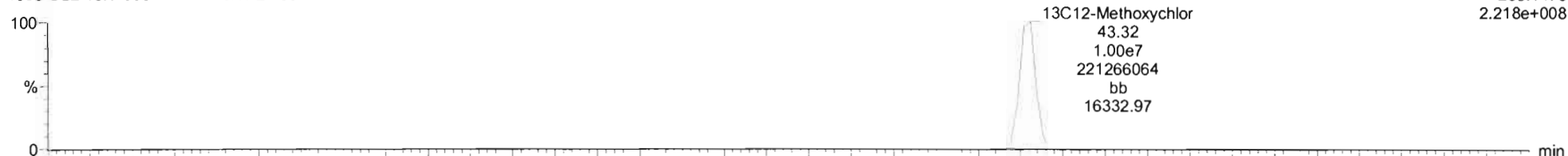
F5:Voltage SIR,EI+
228.1106
1.377e+006



13C12-Methoxychlor

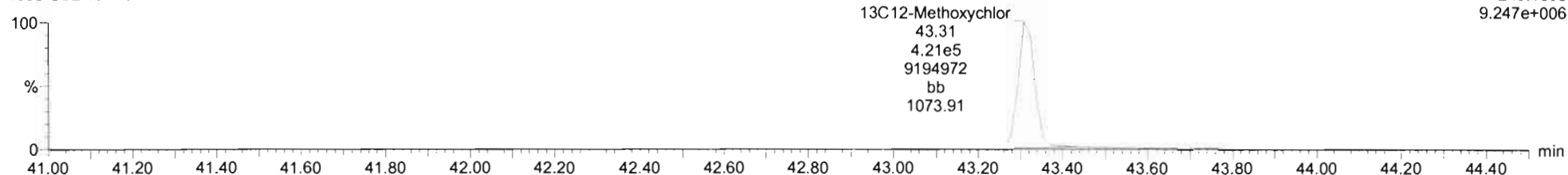
200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

F5:Voltage SIR,EI+
239.1475
2.218e+008



200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

F5:Voltage SIR,EI+
240.1508
9.247e+006



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

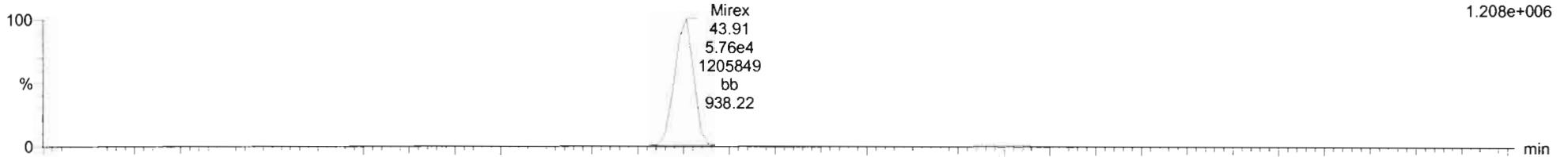
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Name: 200125K1_2, Date: 25-Jan-2020, Time: 13:58:18, ID: ST200125K1-2 1699 CS2 19K1308, Description: 1699 CS2 19K1308

Mirex

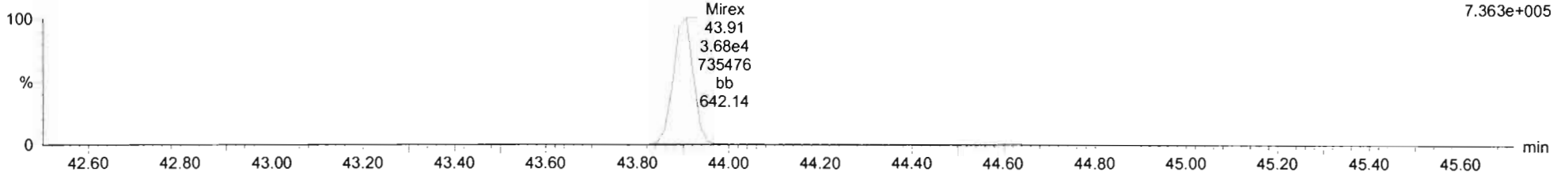
200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

F5:Voltage SIR,EI+
236.8413
1.208e+006



200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

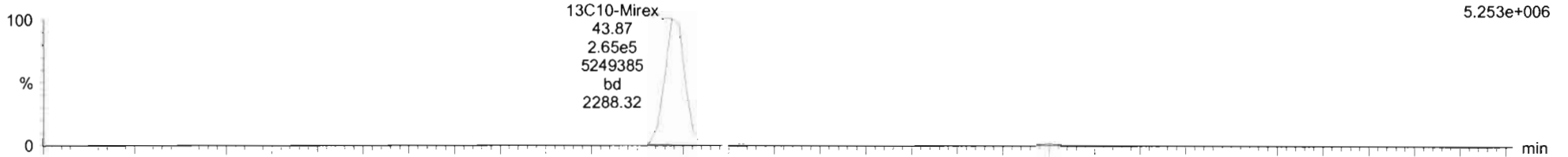
F5:Voltage SIR,EI+
238.8384
7.363e+005



13C10-Mirex

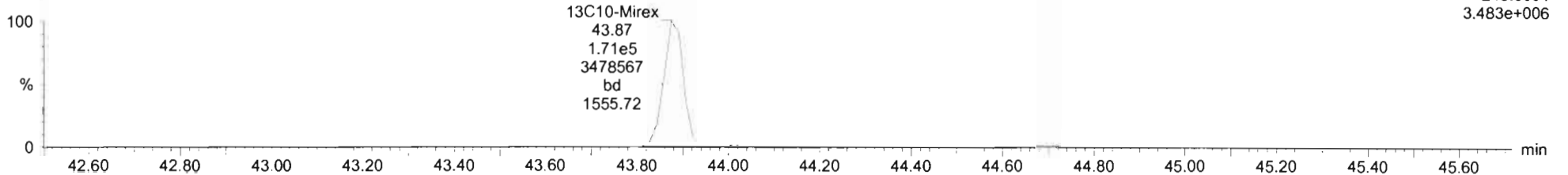
200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

F5:Voltage SIR,EI+
241.8581
5.253e+006



200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

F5:Voltage SIR,EI+
243.8551
3.483e+006



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

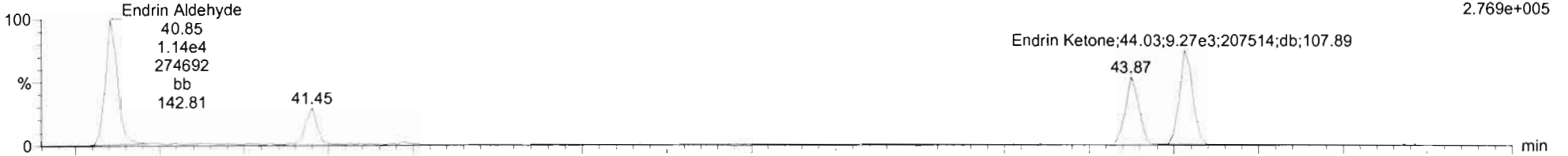
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Name: 200125K1_2, Date: 25-Jan-2020, Time: 13:58:18, ID: ST200125K1-2 1699 CS2 19K1308, Description: 1699 CS2 19K1308

EA-EK

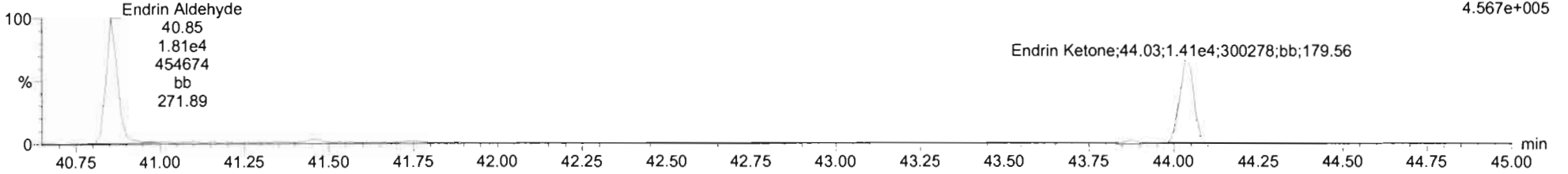
200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

F5:Voltage SIR,EI+
247.8521
2.769e+005



200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

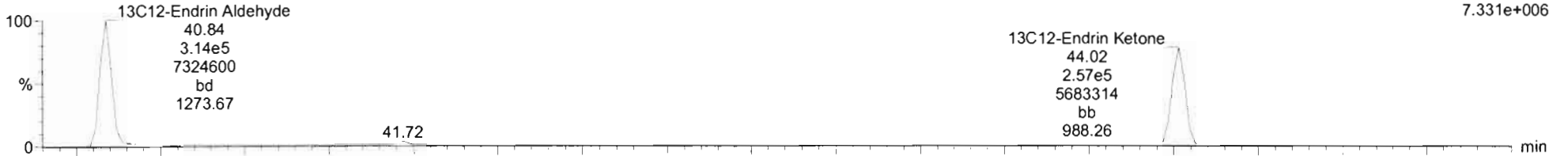
F5:Voltage SIR,EI+
249.8491
4.567e+005



EA-EK-isotopes

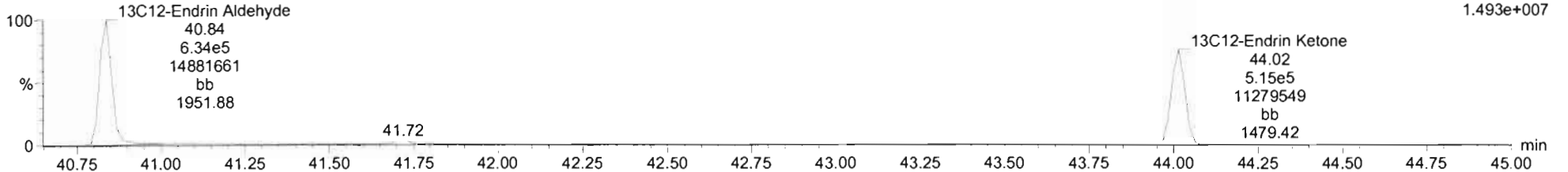
200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

F5:Voltage SIR,EI+
253.8722
7.331e+006



200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

F5:Voltage SIR,EI+
255.8693
1.493e+007



#	#	Name	Resp	S_Resp	ISF	RA	rvy	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	Check RRT	Conc	%Rec	DL	EMPC
20	20	Endrin	2.98e4	1.77e5	48	1.70	NO	1.0934	1.000	37.30	37.30	1.000	1.000	NO	10.3	103	0.0026	10.3
21	21	Endrin	2.30e4	1.13e5	49	1.56	NO	1.0966	1.000	36.68	36.71	1.000	1.000	NO	9.36	99.6	0.1106	9.96
22	22	cis-Nonachlor	1.93e4	8.89e4	50	1.58	NO	1.0772	1.000	38.98	38.88	1.000	1.000	NO	10.0	100	0.118	10.0
23	23	Endosulfan I (beta)	1.03e4	2.59e4	51	1.84	NO	1.1102	1.000	35.72	35.73	1.000	1.000	NO	17.9	119	0.442	17.9
24	24	Z'-DDE	2.89e5	1.70e5	52	1.40	NO	1.0482	1.000	37.82	37.84	1.000	1.000	NO	10.3	103	0.260	10.3
25	25	Z'-DDT	2.43e5	1.14e5	53	1.42	NO	1.0249	1.000	39.00	39.06	1.000	1.000	NO	10.4	104	0.452	10.4
26	26	4'-DDO	3.44e5	1.45e5	54	1.50	NO	1.1226	1.000	39.30	39.20	1.000	1.000	NO	10.5	105	0.267	10.5
27	27	4'-DDT	2.10e5	9.04e5	55	1.48	NO	1.1336	1.000	40.27	40.27	1.000	1.000	NO	10.2	102	0.443	10.2
28	28	Endosulfan Sulfate	1.30e4	4.42e4	56	1.45	NO	0.9871	1.000	41.44	41.45	1.000	1.000	NO	15.2	101	0.272	15.2
29	29	4,4'-Dihydroxychlor	4.08e5	1.04e7	57	6.15	NO	1.2668	1.000	43.33	43.32	1.000	1.000	NO	15.5	103	0.0437	15.5
30	30	Mirex	9.44e4	4.37e5	58	1.56	NO	1.0435	1.000	43.90	43.91	1.001	1.000	NO	10.4	104	0.0337	10.4
31	31	Endrin Aldehyde	2.86e4	8.86e5	59	0.62	NO	1.0630	1.000	40.96	40.85	1.000	1.000	NO	15.2	101	0.189	15.2
32	32	Endrin Ketone	2.30e4	7.73e5	60	0.66	NO	0.9741	1.000	44.02	44.03	1.000	1.000	NO	15.5	103	0.271	15.5
33	33	13C4-Hexachlorobutadi	3.02e5	2.37e5	62	1.27	NO	0.1267	1.000	9.95	9.97	0.384	0.383	NO	503	101	0.0290	
34	34	13C5-Hexachlorobenz	1.59e5	2.37e5	62	1.27	NO	0.6741	1.000	22.66	22.64	0.871	0.872	NO	49.8	99.6	0.004	
35	35	13C5-Alpha-BHC	4.98e5	2.37e5	62	0.79	NO	0.2548	1.000	23.19	23.17	0.892	0.892	NO	48.5	99.1	0.126	
36	36	13C6-Lindane (gamma)	4.71e5	2.37e5	62	0.81	NO	0.2007	1.000	26.46	26.48	1.019	1.019	NO	49.8	99.1	0.160	
37	37	13C6-Beta-BHC	3.58e5	2.37e5	62	0.78	NO	0.1546	1.000	28.54	28.53	1.098	1.098	NO	48.9	97.7	0.207	



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

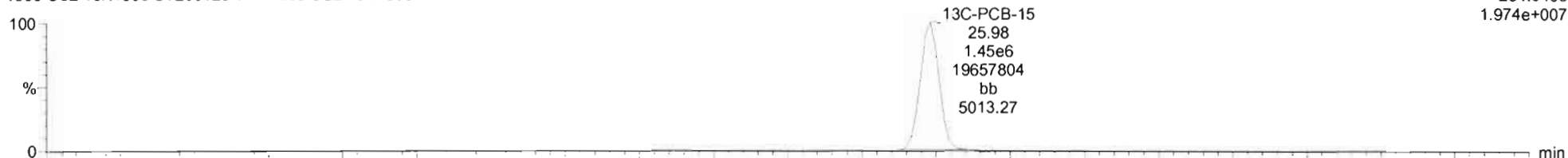
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_2, Date: 25-Jan-2020, Time: 13:58:18, ID: ST200125K1-2 1699 CS2 19K1308, Description: 1699 CS2 19K1308

13C-PCB-15

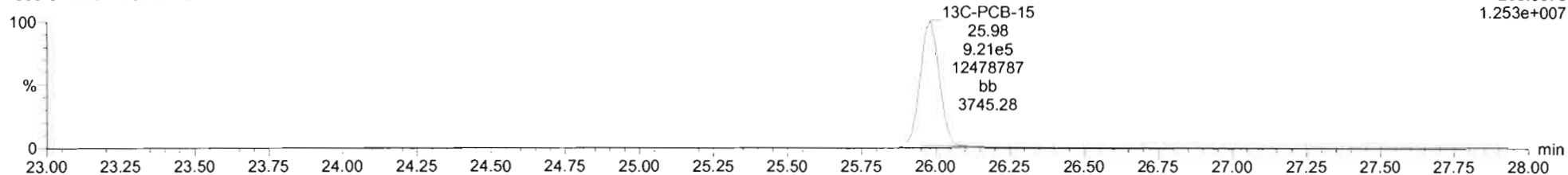
200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

F2:Voltage SIR,EI+
234.0406
1.974e+007



200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

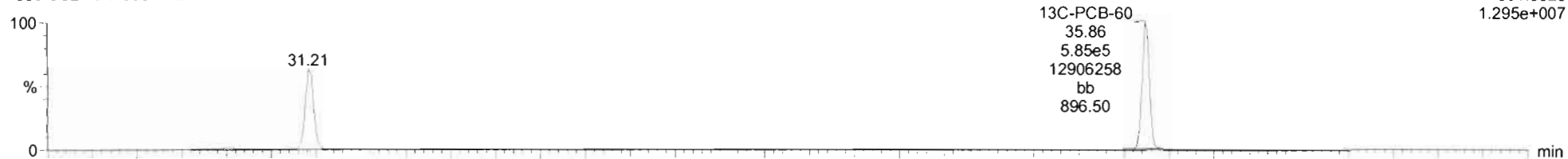
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236.0376
1.253e+007



13C-PCB-60

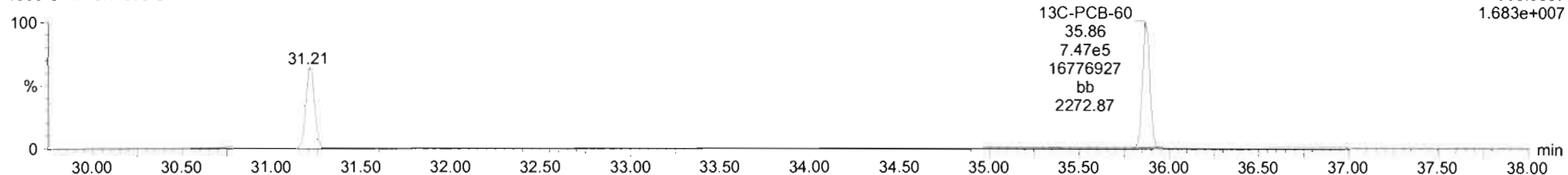
200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

F3:Voltage SIR,EI+
301.9626
1.295e+007



200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

F3:Voltage SIR,EI+
303.9597
1.683e+007



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

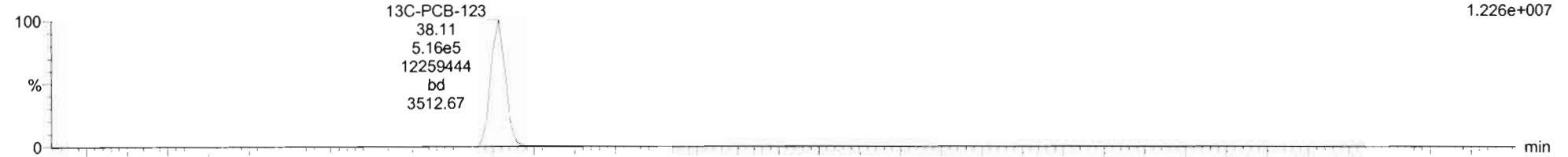
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13C-PCB-123

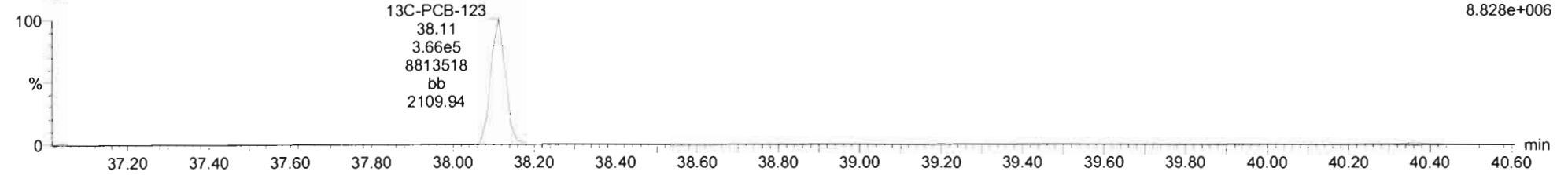
200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

F4:Voltage SIR,EI+
337.9210
1.226e+007



200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

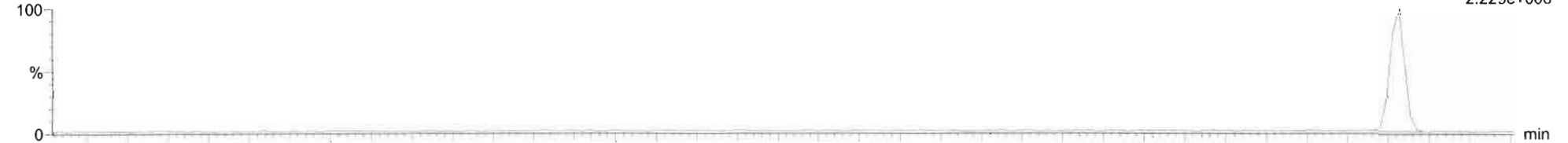
F4:Voltage SIR,EI+
339.9180
8.828e+006



13C-PARLAR 39

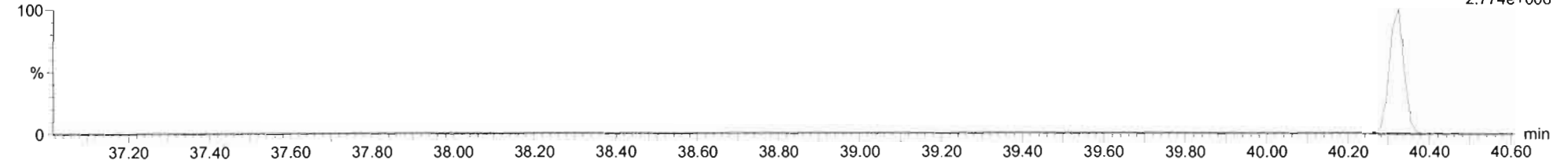
200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

F4:Voltage SIR,EI+
251.9648
2.229e+006
13C-PARLAR 39;40.33;9.01e4;2188138;bb;149.18



200125K1_2
1699 CS2 19K1308 ST200125K1-2 1699 CS2 19K1308

F4:Voltage SIR,EI+
253.9619
2.774e+006
13C-PARLAR 39;40.33;1.14e5;2764037;bb;281.66



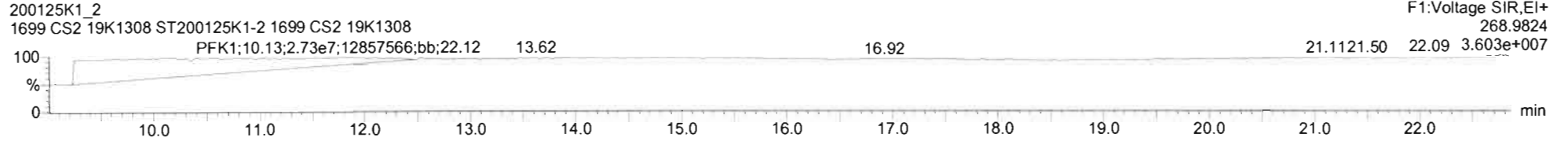
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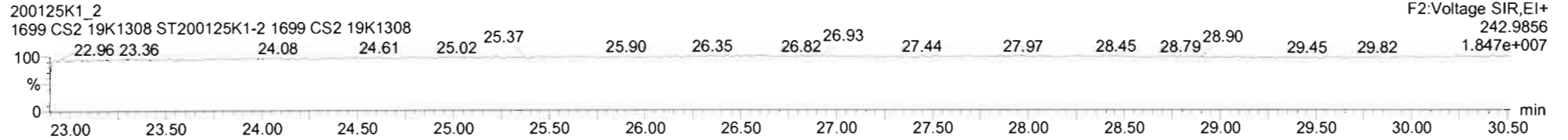
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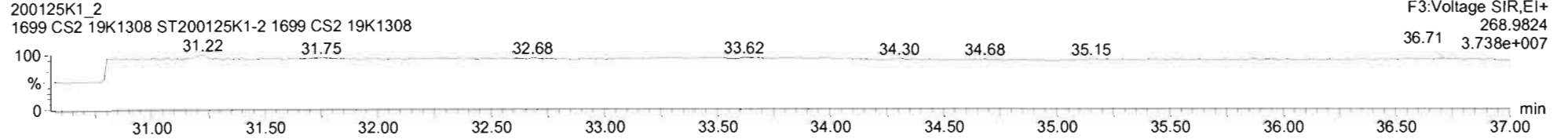
PFK1



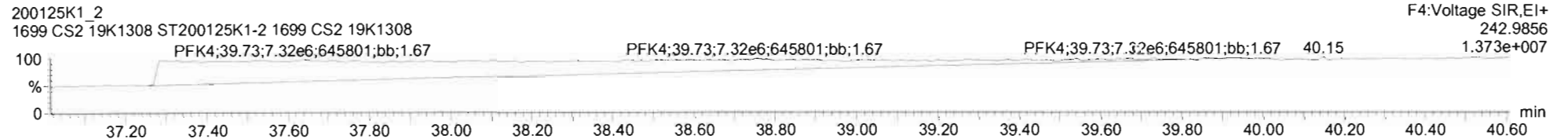
PFK2



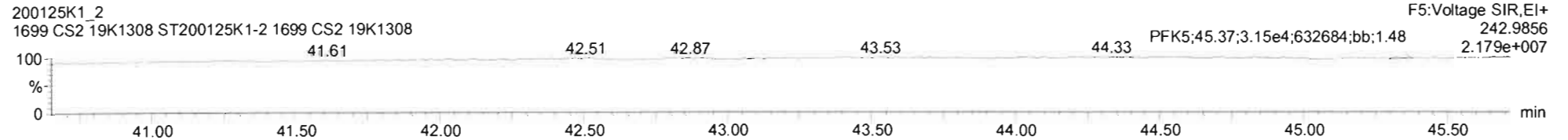
PFK3



PFK4



PFK5



Dataset: Untitled

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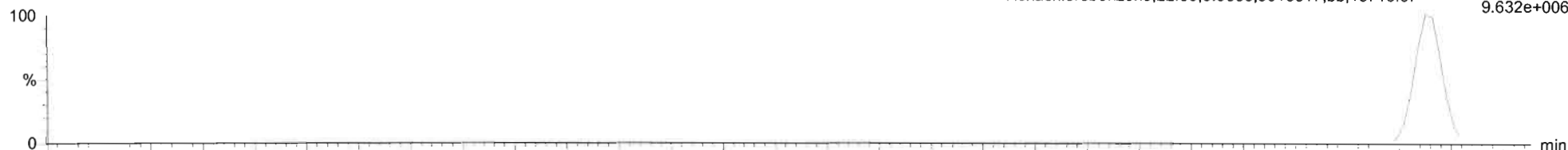
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Name: 200125K1_6, Date: 25-Jan-2020, Time: 17:12:38, ID: ST200125K1-6 1699 CS3 19K1309, Description: 1699 CS3 19K1309

Hexachlorobenzene

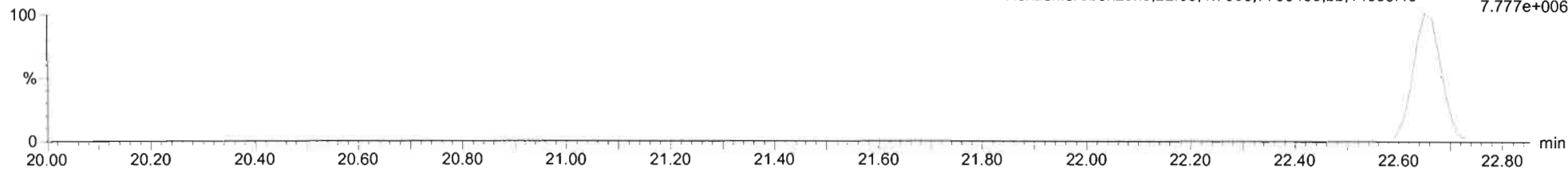
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F1:Voltage SIR,EI+
Hexachlorobenzene;22.65;5.93e5;9615317;bb;19718.67
283.8102
9.632e+006



200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

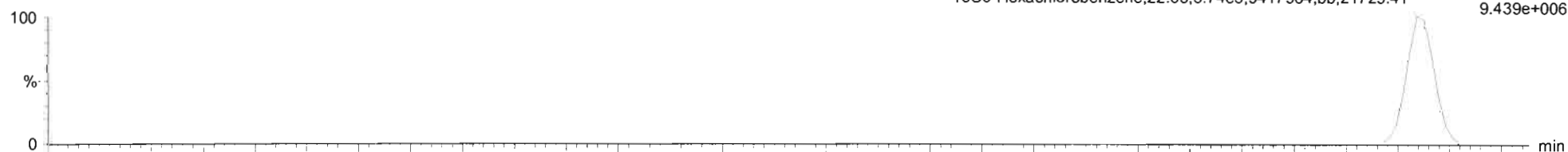
F1:Voltage SIR,EI+
Hexachlorobenzene;22.65;4.76e5;7760489;bb;14696.46
285.8072
7.777e+006



13C6-Hexachlorobenzene

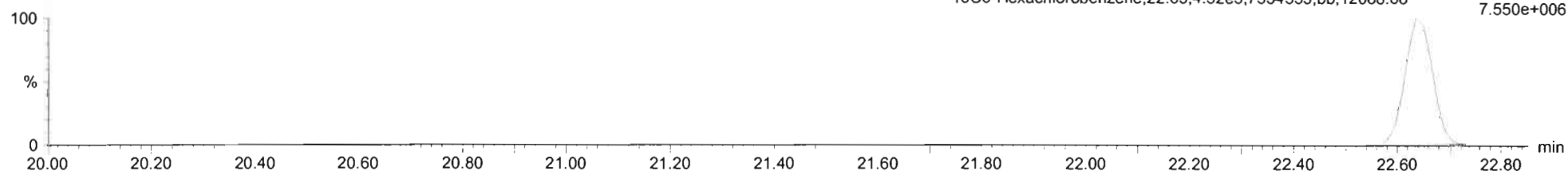
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F1:Voltage SIR,EI+
13C6-Hexachlorobenzene;22.63;5.74e5;9417964;bb;21729.41
289.8303
9.439e+006



200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F1:Voltage SIR,EI+
13C6-Hexachlorobenzene;22.63;4.52e5;7534553;bb;12088.88
291.8273
7.550e+006



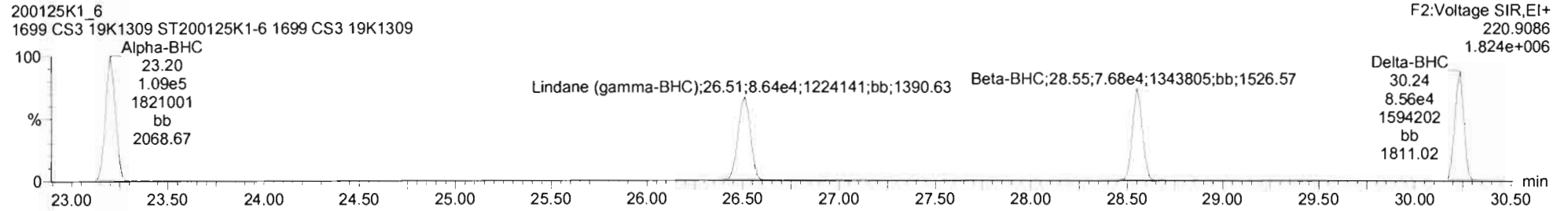
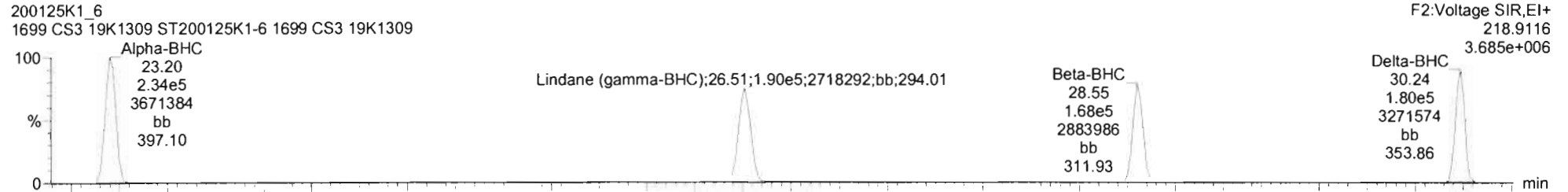
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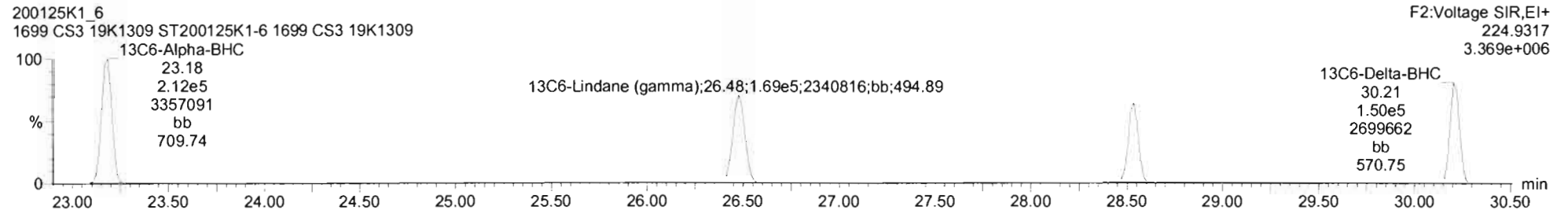
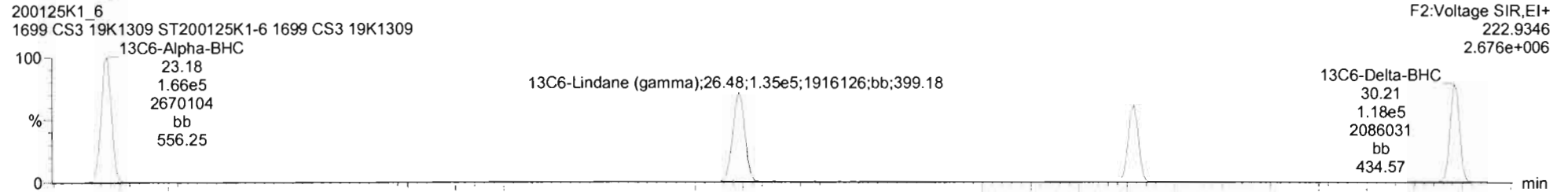
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Name: 200125K1_6, Date: 25-Jan-2020, Time: 17:12:38, ID: ST200125K1-6 1699 CS3 19K1309, Description: 1699 CS3 19K1309

BHC Totals



BHC-isotopes



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

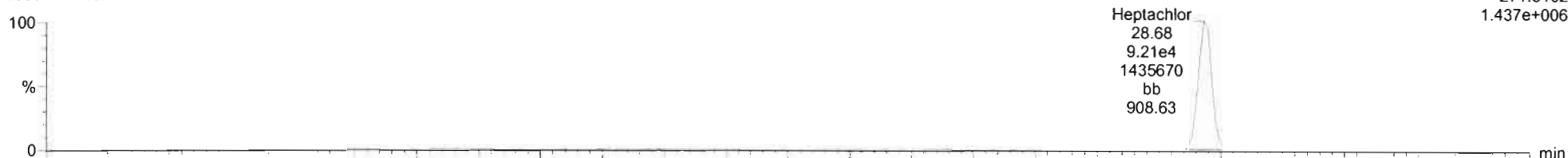
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Name: 200125K1_6, Date: 25-Jan-2020, Time: 17:12:38, ID: ST200125K1-6 1699 CS3 19K1309, Description: 1699 CS3 19K1309

Heptachlor

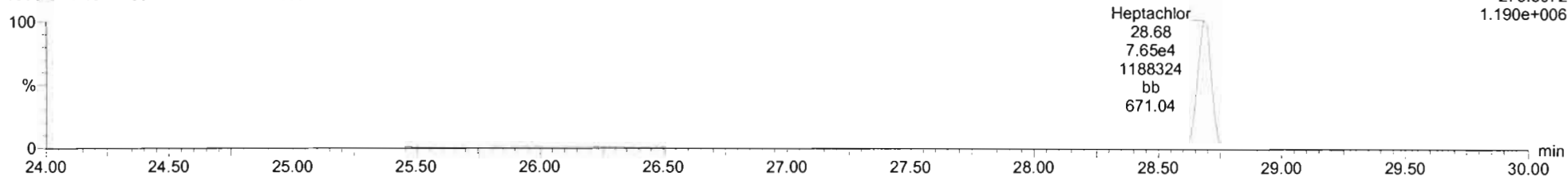
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F2:Voltage SIR,EI+
271.8102
1.437e+006



200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

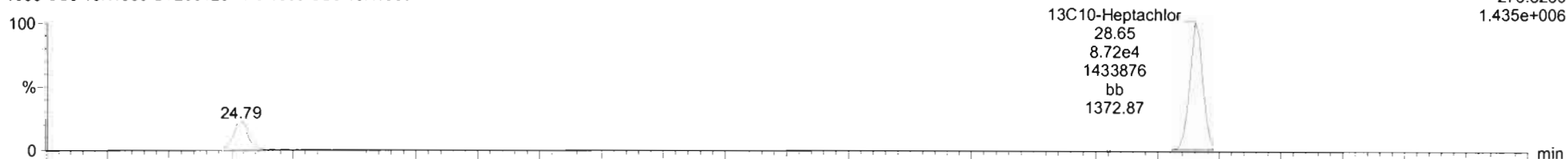
F2:Voltage SIR,EI+
273.8072
1.190e+006



13C10-Heptachlor

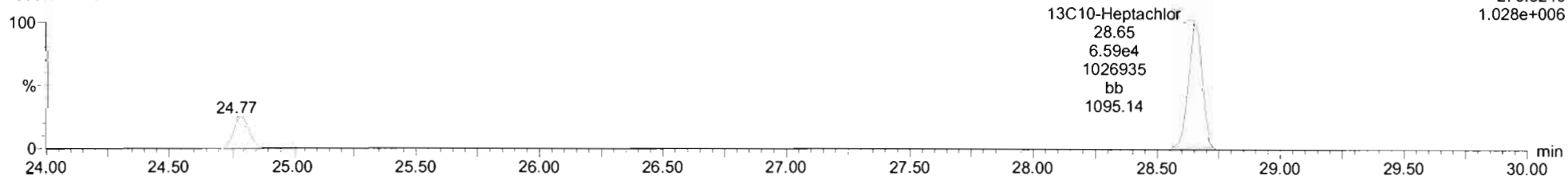
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F2:Voltage SIR,EI+
276.8269
1.435e+006



200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F2:Voltage SIR,EI+
278.8240
1.028e+006



Dataset: Untitled

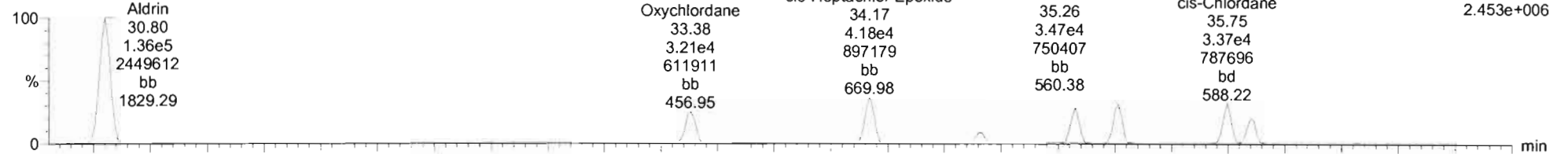
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Name: 200125K1_6, Date: 25-Jan-2020, Time: 17:12:38, ID: ST200125K1-6 1699 CS3 19K1309, Description: 1699 CS3 19K1309

Aldrin-EI

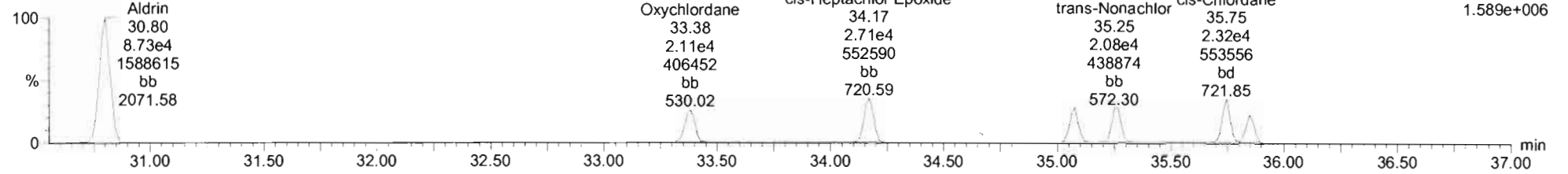
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F3:Voltage SIR,EI+
262.8569
2.453e+006



200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

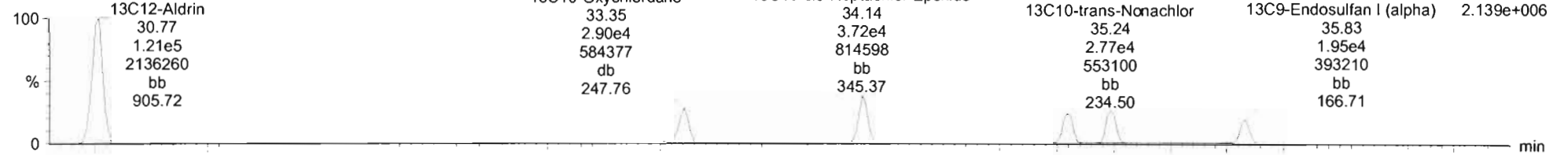
F3:Voltage SIR,EI+
264.8550
1.589e+006



Aldrin-EI-isotopes

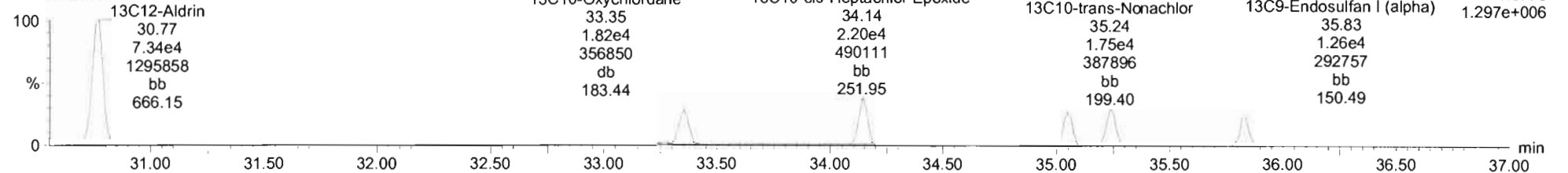
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F3:Voltage SIR,EI+
269.8804
2.139e+006

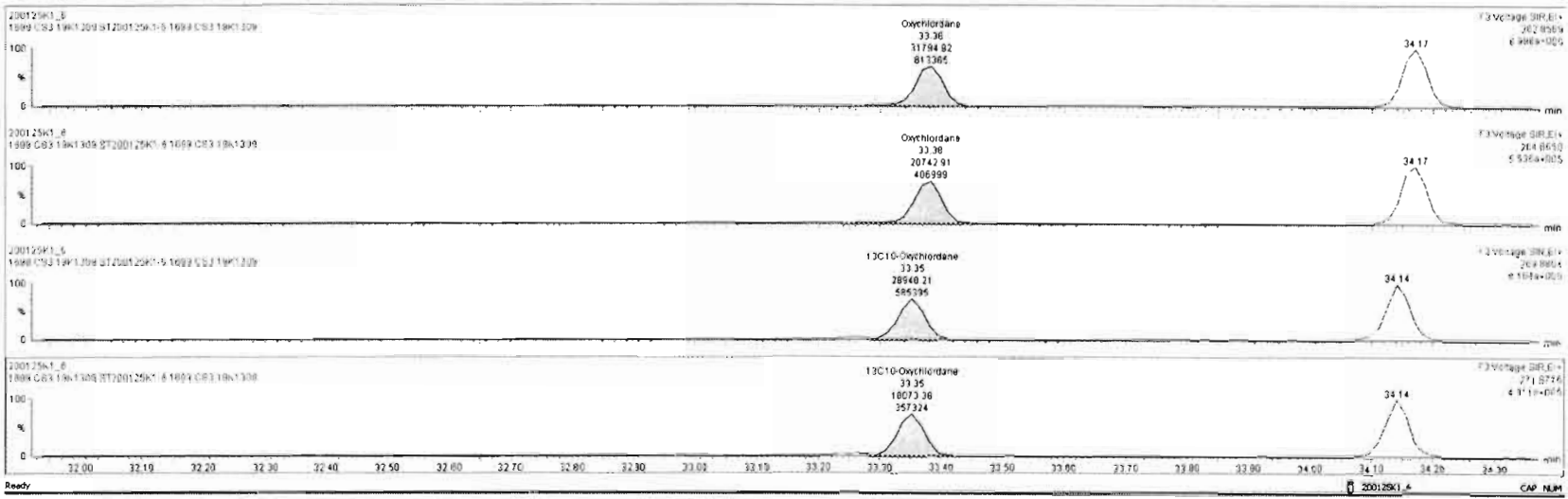


200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F3:Voltage SIR,EI+
271.8775
1.297e+006



#	Name	Resp	IS Resp	CFI	RA	rvy	RRF	wctrd	Prod RT	RT	RRT	Prod RRT	Check RRT	Conc	%Rec	DL	ExpC
1	Hexachlorobutadiene	2.984	2.266	33	0.05	YES	0.0739	1.000	9.97	9.98	1.001	1.000	NO	192	77.0	0.394	57.0
2	Hexachlorobutene	1.0746	1.0365	34	1.25	NO	0.9989	1.000	22.68	22.68	1.001	1.001	NO	52.3	105	0.007	52.3
3	Alpha-BHC	3.4365	3.3965	35	2.15	NO	0.8617	1.000	23.23	23.20	1.001	1.002	NO	52.7	105	0.242	52.7
4	Lindane (gamma-BHC)	2.7605	3.0465	36	2.20	NO	0.8690	1.000	26.51	26.51	1.001	1.001	NO	52.4	105	0.338	52.4
5	Beta-BHC	2.4565	2.2645	37	2.19	NO	1.0173	1.000	28.54	28.55	1.001	1.000	NO	52.9	106	0.333	52.9
6	Delta-BHC	2.6665	2.6665	38	2.10	NO	0.9621	1.000	30.23	30.24	1.001	1.001	NO	51.9	104	0.261	51.9
7	Heptachlor	1.6865	1.5365	39	1.20	NO	1.0787	1.000	28.68	28.68	1.001	1.001	NO	51.1	102	0.154	51.1
8	4,4'-DDE	3.4465	2.6965	38	3.12	NO	1.2643	1.000	30.12	30.14	0.998	0.997	NO	50.6	101	0.145	50.6
9	Aroclor	2.2465	1.9465	40	1.56	NO	1.1111	1.000	30.80	30.80	1.001	1.001	NO	51.9	104	0.0690	51.9
10	Oxychloridane	5.2564	4.7364	41	1.53	NO	1.0939	1.000	32.37	32.36	1.001	1.001	NO	51.1	102	0.253	51.1
11	cis-Heptachlor Epoxide	6.8364	5.9164	42	1.54	NO	1.1318	1.000	34.16	34.17	1.001	1.001	NO	51.5	103	0.179	51.5
12	trans-Heptachlor Epoxide	1.6364	5.9164	42	1.72	NO	0.2603	1.000	34.85	34.87	1.015	1.015	NO	52.9	106	0.780	52.9
13	trans-Chlordane (gamma)	5.0364	4.2364	43	1.60	NO	1.1780	1.000	35.07	35.08	1.001	1.001	NO	50.5	101	0.367	50.5
14	trans-Nonachlor	5.5564	4.5264	44	1.67	NO	1.0786	1.000	35.26	35.26	1.001	1.001	NO	57.1	114	0.271	57.1
15	cis-Chlordane	5.6964	4.5264	44	1.46	NO	1.1080	1.000	35.74	35.75	1.015	1.014	NO	56.8	114	0.203	56.8
16	Endosulfan (alpha)	3.7764	3.2164	45	1.51	NO	1.1562	1.000	35.85	35.85	1.000	1.001	NO	50.7	101	0.361	50.7
17	4,4'-DDE	7.2365	1.1265	41	3.07	NO	0.6750	1.000	36.51	36.50	0.994	0.994	NO	51.1	102	0.0529	51.1
18	2,4'-DDE	1.1565	1.1265	41	1.42	NO	0.9841	1.000	35.73	35.73	1.000	1.000	NO	52.4	105	0.199	52.4



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Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

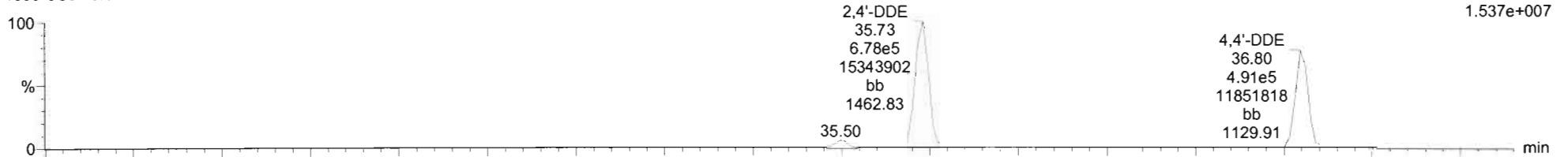
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DDMU-DDE

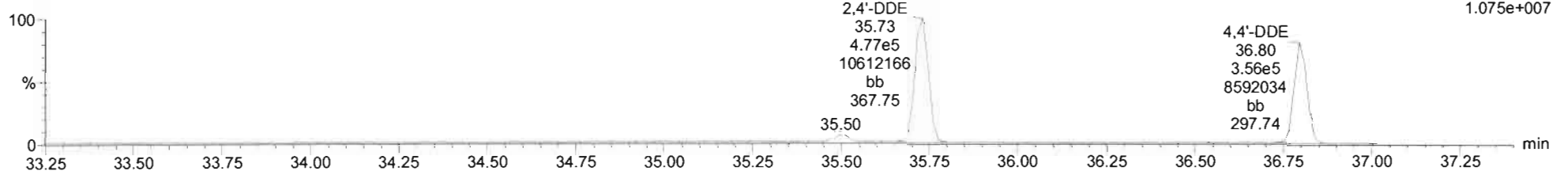
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F3:Voltage SIR,EI+
246.0003
1.537e+007



200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

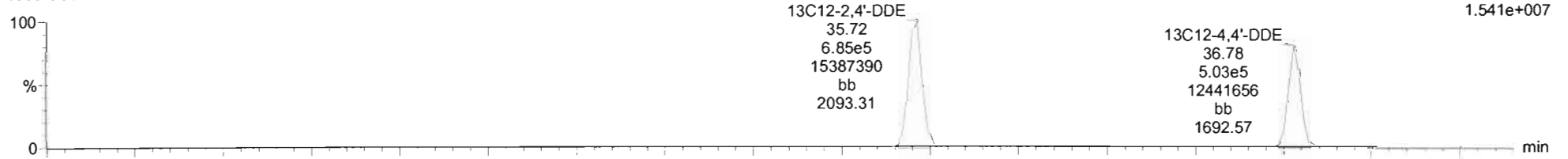
F3:Voltage SIR,EI+
247.9974
1.075e+007



DDE-isotopes

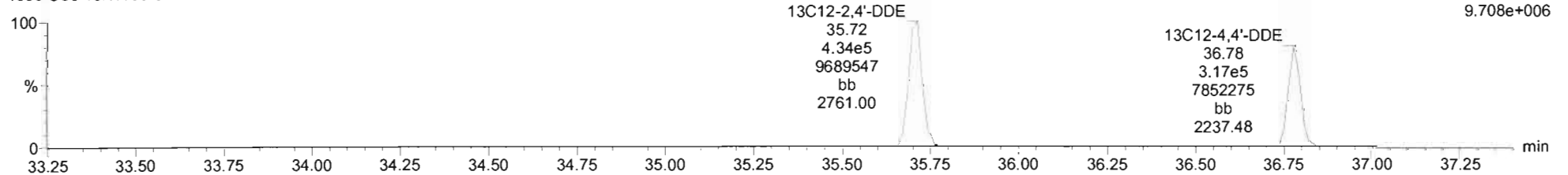
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F3:Voltage SIR,EI+
258.0406
1.541e+007



200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F3:Voltage SIR,EI+
260.0376
9.708e+006



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

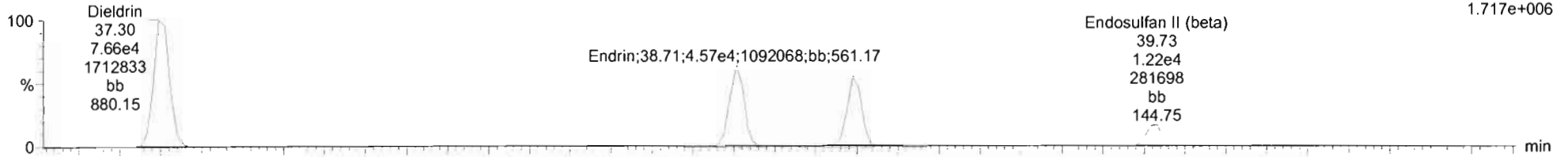
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Name: 200125K1_6, Date: 25-Jan-2020, Time: 17:12:38, ID: ST200125K1-6 1699 CS3 19K1309, Description: 1699 CS3 19K1309

Dieldrin-EII

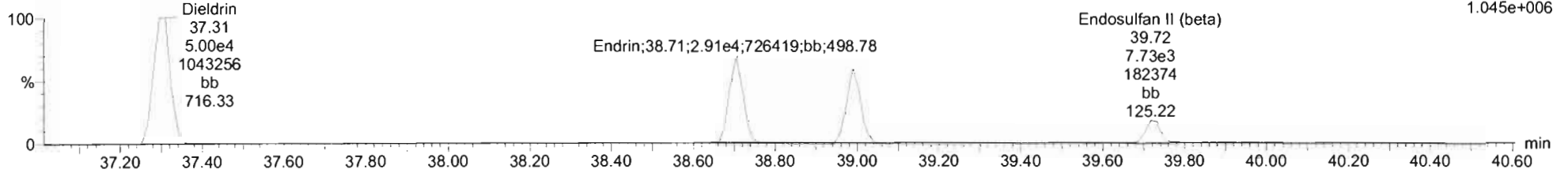
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F4:Voltage SIR,EI+
262.8569
1.717e+006



200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

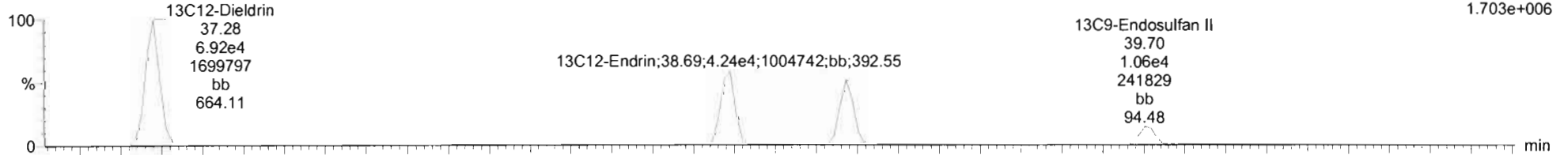
F4:Voltage SIR,EI+
264.8550
1.045e+006



Dieldrin-EII-isotopes

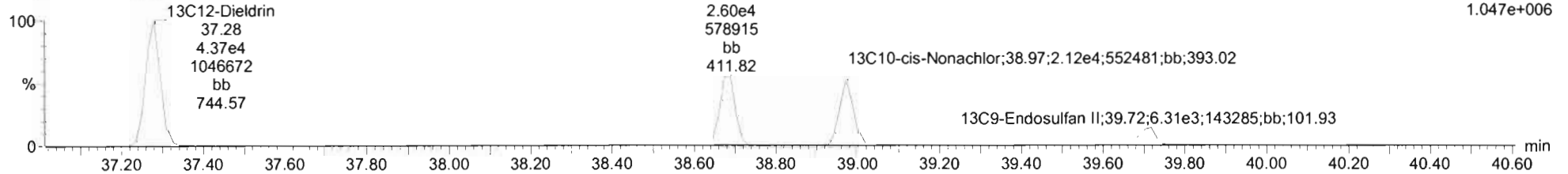
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F4:Voltage SIR,EI+
269.8804
1.703e+006



200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F4:Voltage SIR,EI+
271.8775
1.047e+006



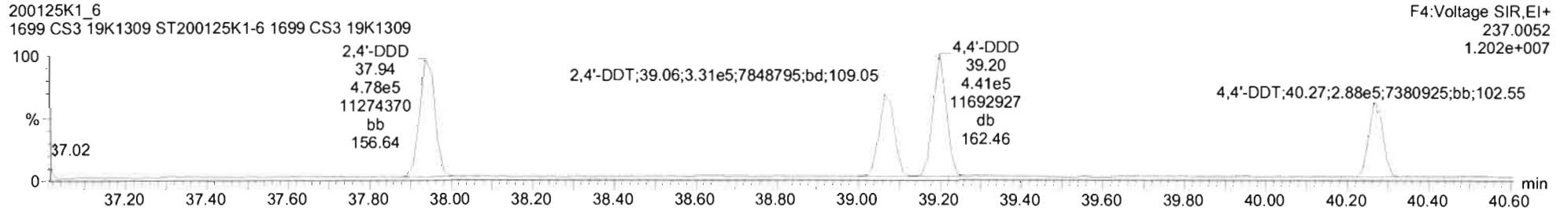
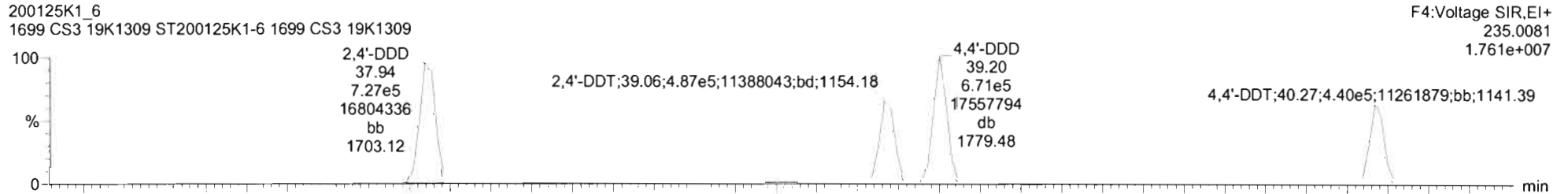
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Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

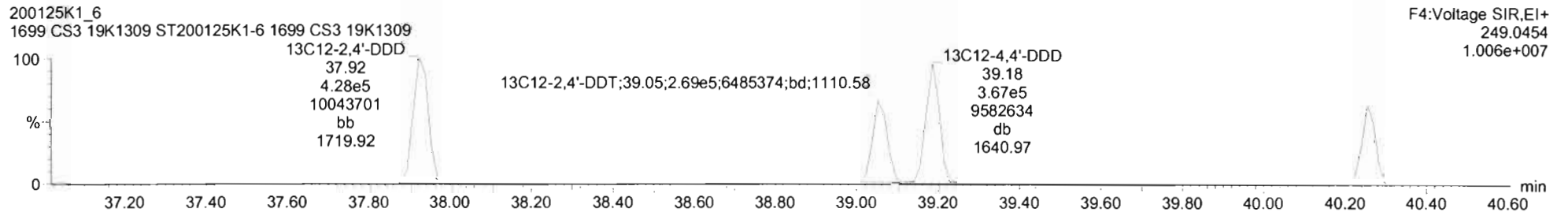
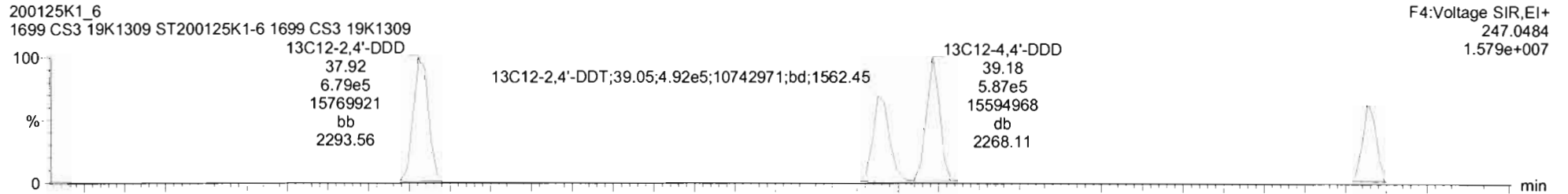
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_6, Date: 25-Jan-2020, Time: 17:12:38, ID: ST200125K1-6 1699 CS3 19K1309, Description: 1699 CS3 19K1309

DDD-DDT



DDD-DDT-isotopes



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

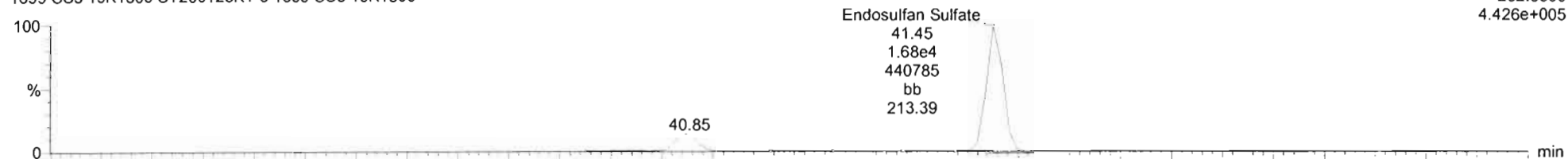
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Name: 200125K1_6, Date: 25-Jan-2020, Time: 17:12:38, ID: ST200125K1-6 1699 CS3 19K1309, Description: 1699 CS3 19K1309

Endosulfan Sulfate

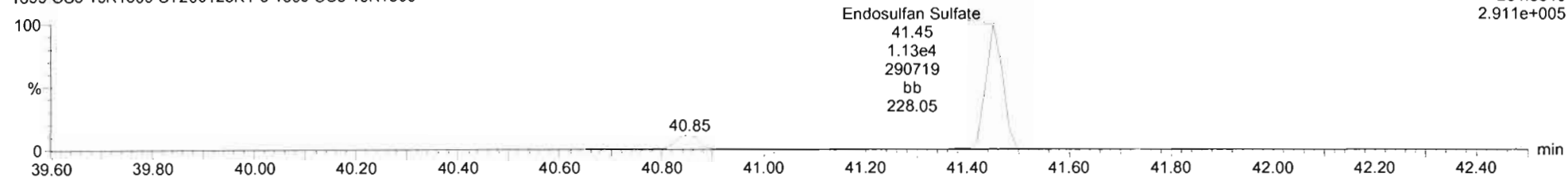
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F5:Voltage SIR,EI+
262.8569
4.426e+005



200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

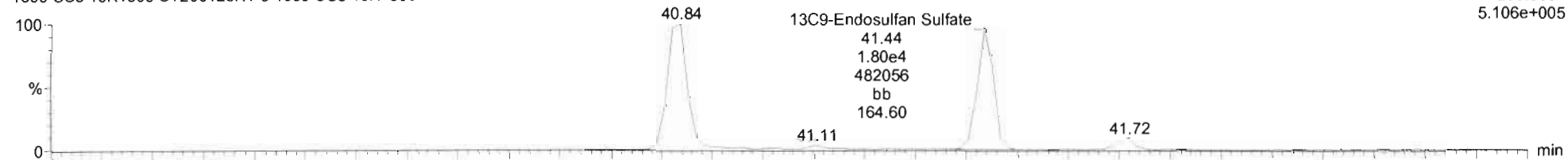
F5:Voltage SIR,EI+
264.8540
2.911e+005



13C9-Endosulfan Sulfate

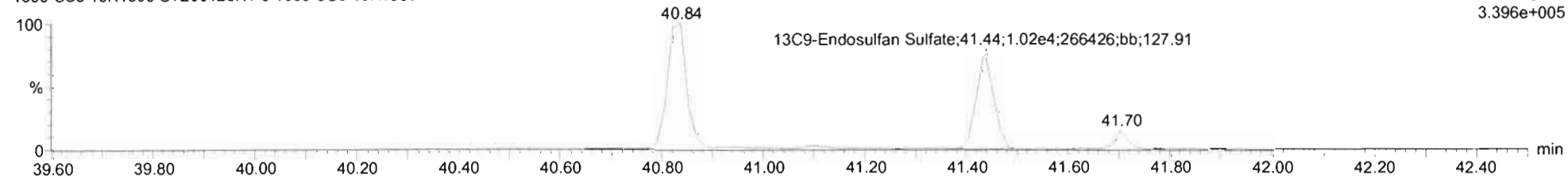
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F5:Voltage SIR,EI+
269.8804
5.106e+005



200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F5:Voltage SIR,EI+
271.8775
3.396e+005



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

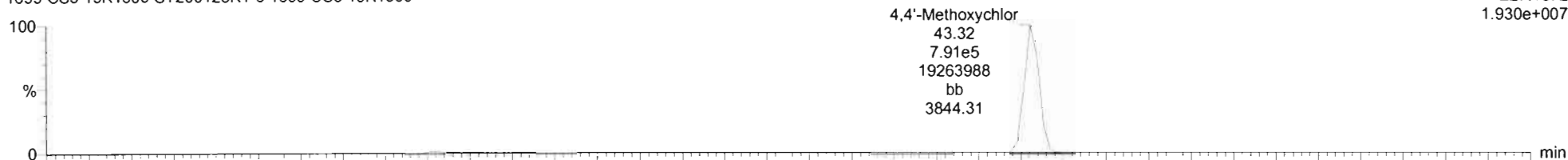
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Name: 200125K1_6, Date: 25-Jan-2020, Time: 17:12:38, ID: ST200125K1-6 1699 CS3 19K1309, Description: 1699 CS3 19K1309

4,4'-Methoxychlor

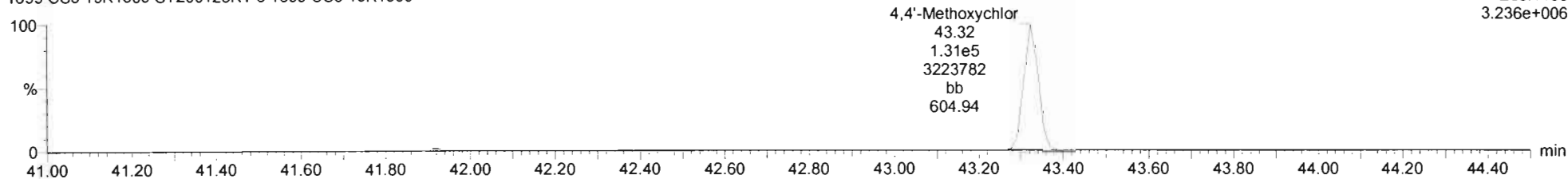
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F5:Voltage SIR,EI+
227.1072
1.930e+007



200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

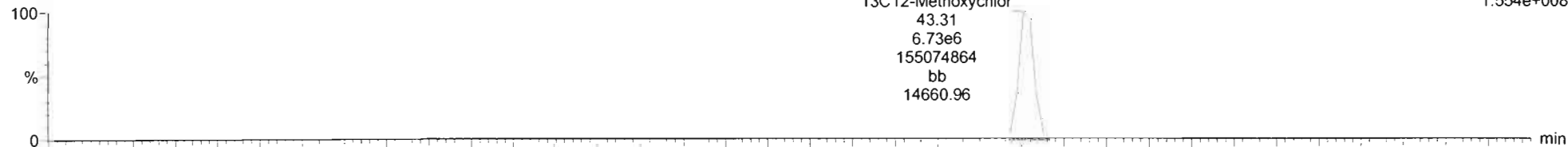
F5:Voltage SIR,EI+
228.1106
3.236e+006



13C12-Methoxychlor

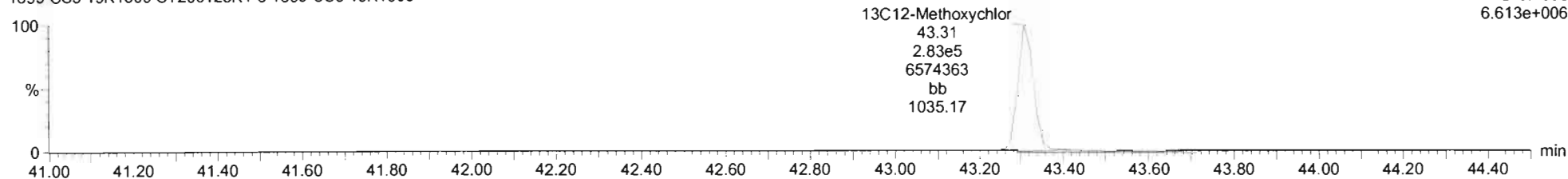
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F5:Voltage SIR,EI+
239.1475
1.554e+008



200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F5:Voltage SIR,EI+
240.1508
6.613e+006



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

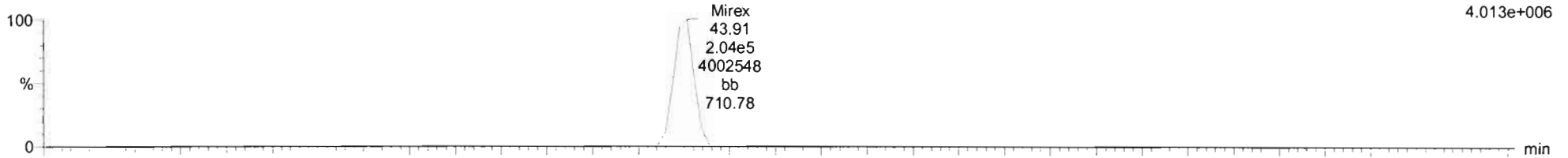
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Name: 200125K1_6, Date: 25-Jan-2020, Time: 17:12:38, ID: ST200125K1-6 1699 CS3 19K1309, Description: 1699 CS3 19K1309

Mirex

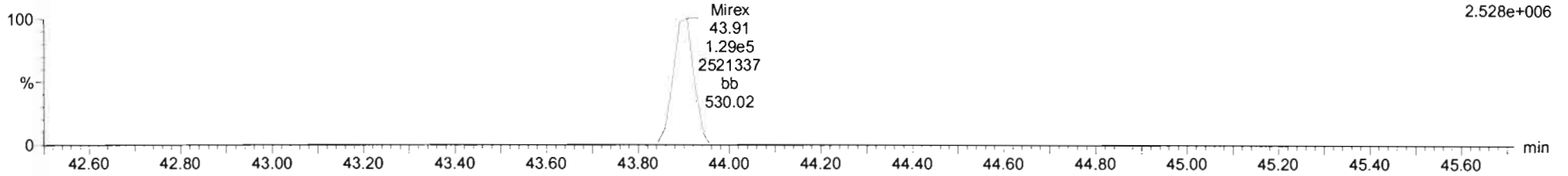
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F5:Voltage SIR,EI+
236.8413
4.013e+006



200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

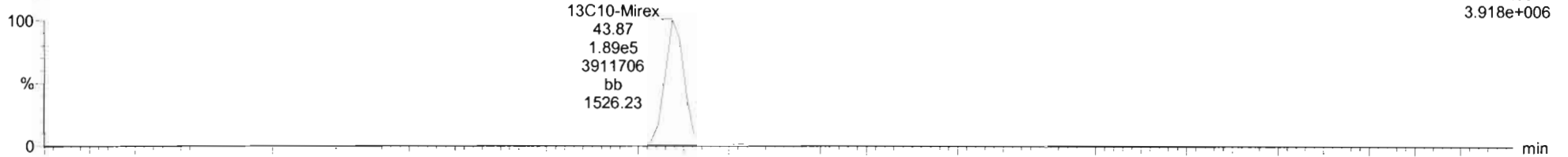
F5:Voltage SIR,EI+
238.8384
2.528e+006



13C10-Mirex

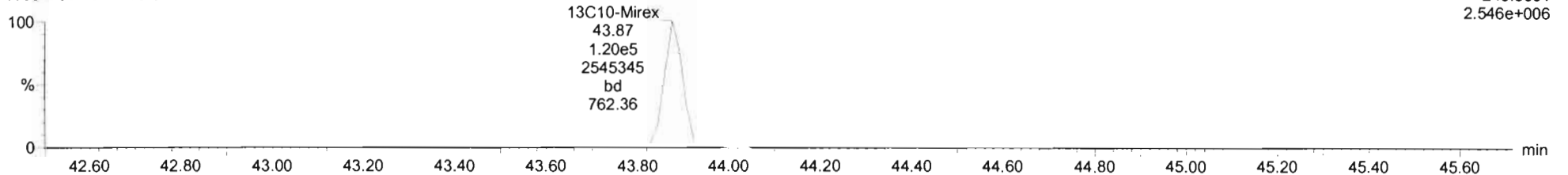
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F5:Voltage SIR,EI+
241.8581
3.918e+006



200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F5:Voltage SIR,EI+
243.8551
2.546e+006



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

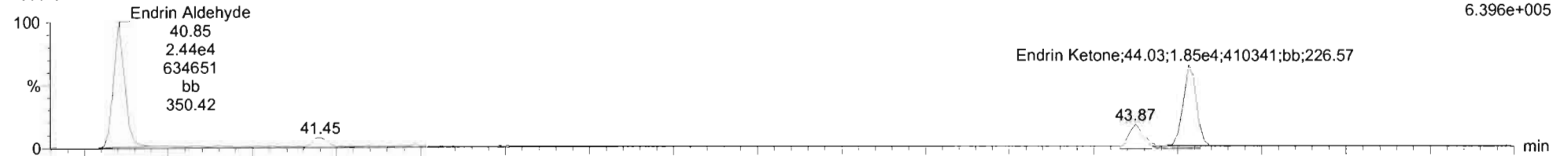
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Name: 200125K1_6, Date: 25-Jan-2020, Time: 17:12:38, ID: ST200125K1-6 1699 CS3 19K1309, Description: 1699 CS3 19K1309

EA-EK

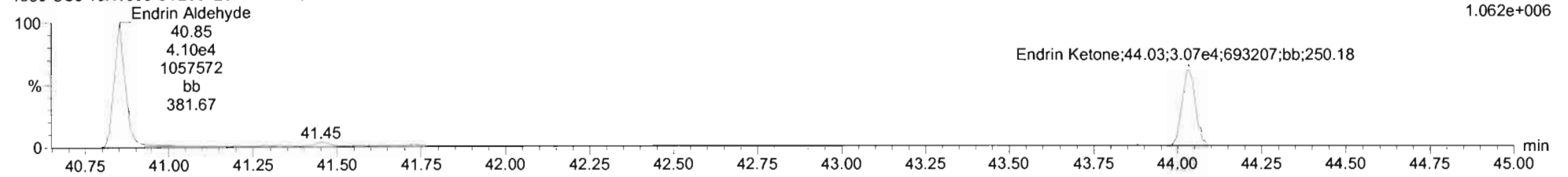
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F5:Voltage SIR,EI+
247.8521
6.396e+005



200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

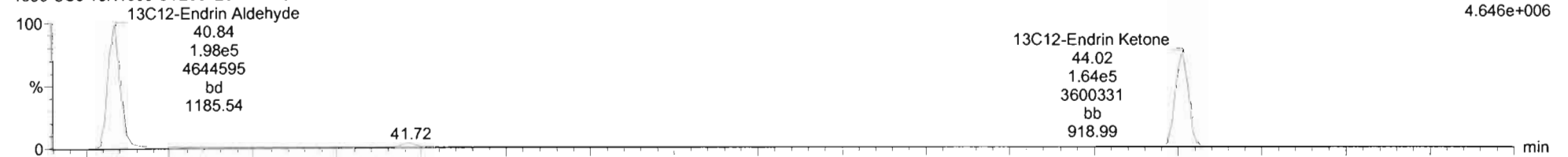
F5:Voltage SIR,EI+
249.8491
1.062e+006



EA-EK-isotopes

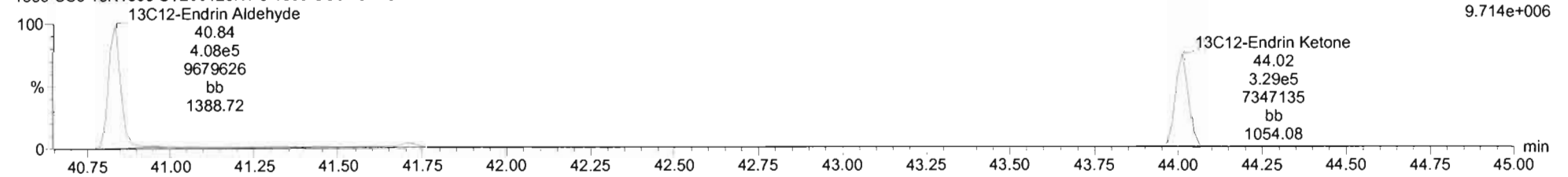
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F5:Voltage SIR,EI+
253.8722
4.646e+006

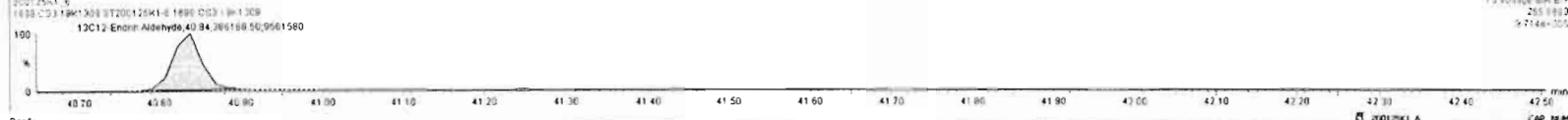
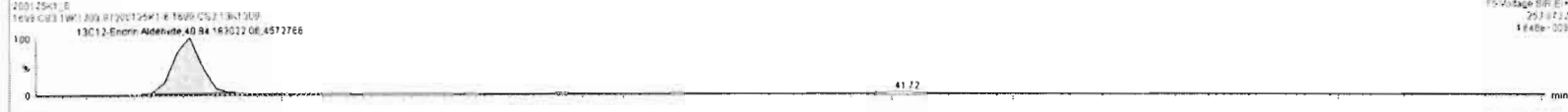


200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F5:Voltage SIR,EI+
255.8693
9.714e+006



#	Name	Retp	St Retp	SP	RA	rN	RRT	RefRet	Pred.RT	RT	RRT	Pred.RRT	Check.RRT	Conc.	%Rec	DL	EMPC
20	Dexam	1.27e5	1.13e5	48	1.53	NO	1.0934	1.000	37.30	37.30	1.000	1.000	NO	51.3	103	0.140	51.3
21	Enam	7.48e4	6.84e4	40	1.57	NO	1.0698	1.000	38.88	38.71	1.000	1.000	NO	51.8	104	0.248	51.8
22	as-aboacinar	6.36e4	5.63e4	50	1.58	NO	1.0772	1.000	38.88	38.99	1.000	1.000	NO	52.4	105	0.279	52.4
23	Endocutan 1 (beta)	1.89e4	1.88e4	51	1.58	NO	1.1102	1.000	39.70	39.73	1.001	1.000	NO	53.1	106	0.992	53.1
24	2,4-D00	1.20e5	1.11e5	52	1.52	NO	1.0682	1.000	37.92	37.94	1.000	1.000	NO	51.8	104	0.360	51.8
25	2,4-D01	8.18e5	7.81e5	53	1.47	NO	1.0290	1.000	39.07	39.06	1.000	1.000	NO	52.3	105	0.598	52.3
26	4,4'-D00	1.11e6	9.54e5	54	1.52	NO	1.1242	1.000	39.28	39.20	1.000	1.000	NO	51.9	104	0.359	51.9
27	4,4'-D01	7.29e5	6.19e5	55	1.53	NO	1.1326	1.000	40.27	40.27	1.000	1.000	NO	51.9	104	0.560	51.9
28	Endocutan sulfate	2.82e4	2.82e4	56	1.48	NO	0.9801	1.000	41.44	41.44	1.000	1.000	NO	50.7	101	0.560	50.7
29	4,4-Methoxychlor	8.23e5	7.07e5	57	6.03	NO	1.2688	1.000	43.32	43.32	1.000	1.000	NO	51.8	104	0.0831	51.8
30	Hexa	3.33e5	3.08e5	58	1.58	NO	1.0435	1.000	43.90	43.90	1.001	1.000	NO	51.8	104	0.195	51.8
31	Endrin Aldehyde	6.29e4	5.89e5	59	0.83	NO	1.0682	1.000	40.86	40.85	1.000	1.000	NO	52.1	104	0.381	52.1
32	Endrin Ketone	4.82e4	4.93e5	60	0.60	NO	0.9741	1.000	44.01	44.03	1.000	1.000	NO	51.2	102	0.543	51.2
33	13C4-Hexachlorocyclo	2.28e6	1.51e6	62	1.27	NO	0.1267	1.000	9.95	9.97	0.394	0.303	NO	585	119	0.0462	
34	13C5-Hexachlorocyclo	1.03e5	1.51e6	62	1.27	NO	0.5741	1.000	22.98	22.64	0.871	0.872	NO	50.3	101	0.038	
35	13C6-Alpha-HCH	3.78e5	1.51e6	62	0.78	NO	0.2548	1.000	23.18	23.18	0.882	0.882	NO	49.1	99.1	0.220	
36	13C6-Beta-HCH	3.04e5	1.51e6	62	0.80	NO	0.2007	1.000	28.48	28.48	1.019	1.019	NO	50.0	100	0.280	
37	13C6-Delta-HCH	2.28e5	1.51e6	62	0.78	NO	0.1546	1.000	28.54	28.53	1.098	1.099	NO	48.7	97.3	0.363	



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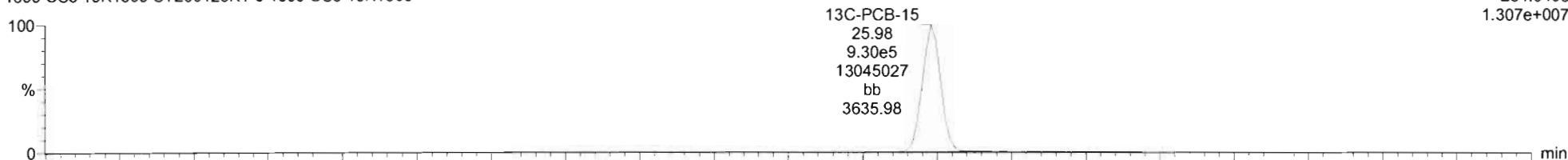
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_6, Date: 25-Jan-2020, Time: 17:12:38, ID: ST200125K1-6 1699 CS3 19K1309, Description: 1699 CS3 19K1309

13C-PCB-15

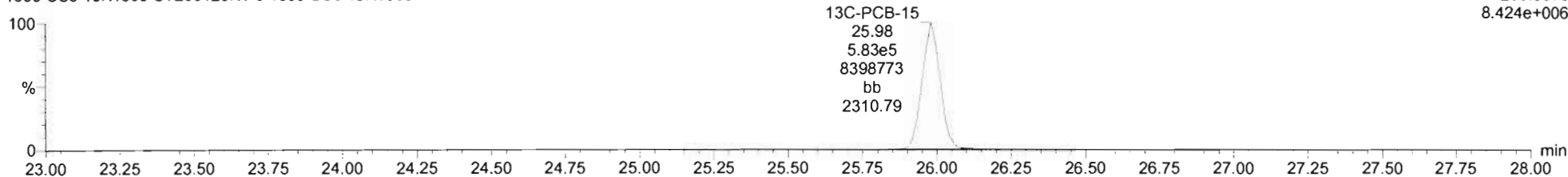
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F2:Voltage SIR,EI+
234.0406
1.307e+007



200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

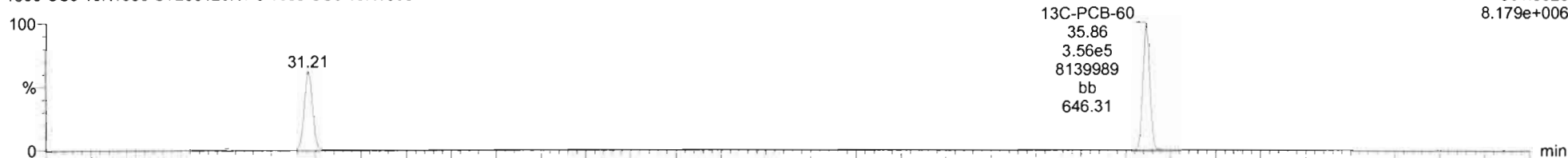
F2:Voltage SIR,EI+
236.0376
8.424e+006



13C-PCB-60

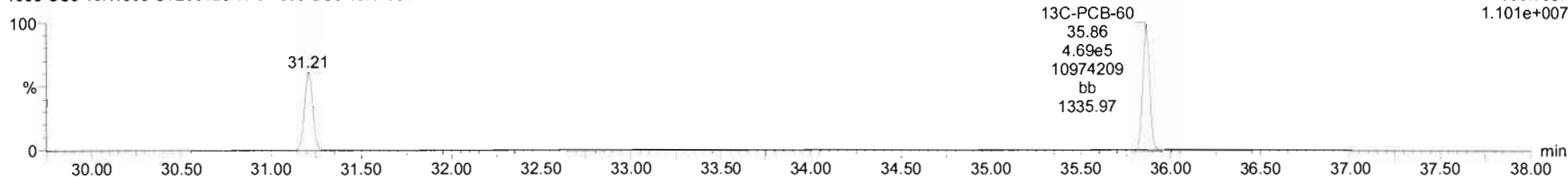
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F3:Voltage SIR,EI+
301.9626
8.179e+006



200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F3:Voltage SIR,EI+
303.9597
1.101e+007



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

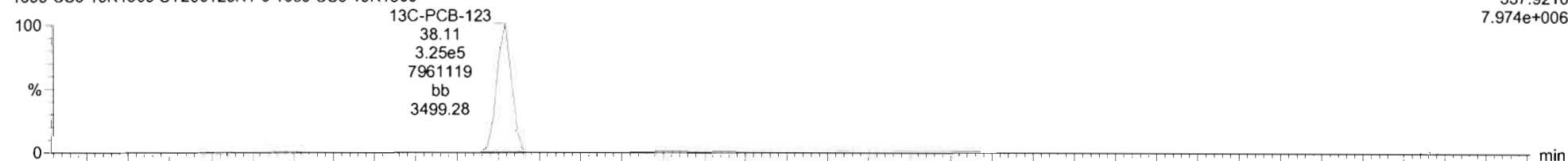
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

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13C-PCB-123

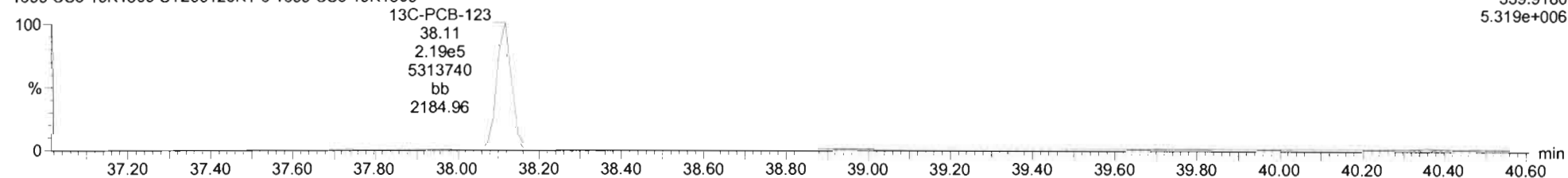
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F4:Voltage SIR,EI+
337.9210
7.974e+006



200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F4:Voltage SIR,EI+
339.9180
5.319e+006



13C-PARLAR 39

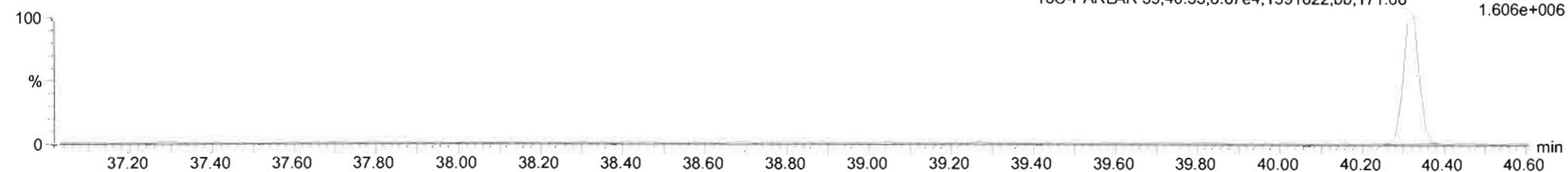
200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F4:Voltage SIR,EI+
251.9648
1.353e+006
13C-PARLAR 39;40.33;5.69e4;1303855;bb;75.51



200125K1_6
1699 CS3 19K1309 ST200125K1-6 1699 CS3 19K1309

F4:Voltage SIR,EI+
253.9619
1.606e+006
13C-PARLAR 39;40.33;6.87e4;1591822;bb;171.68



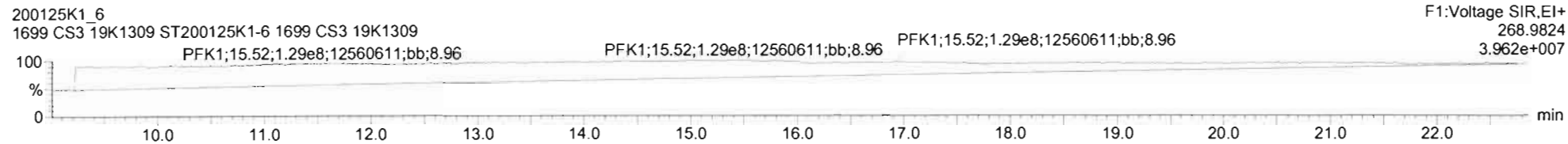
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Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

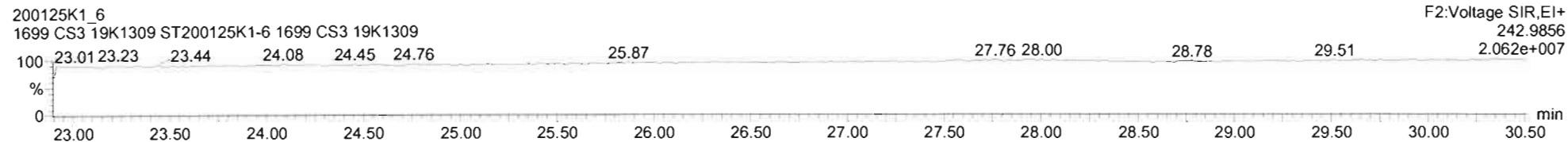
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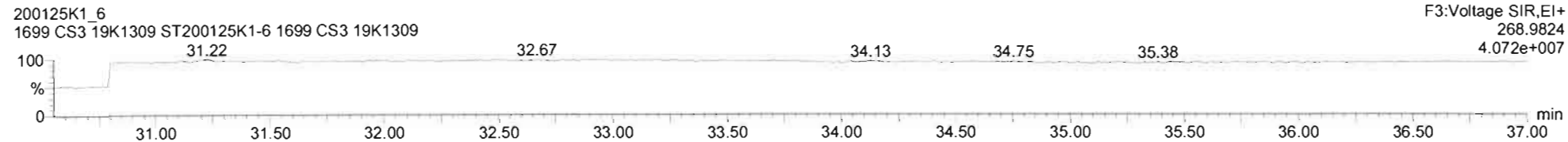
PFK1



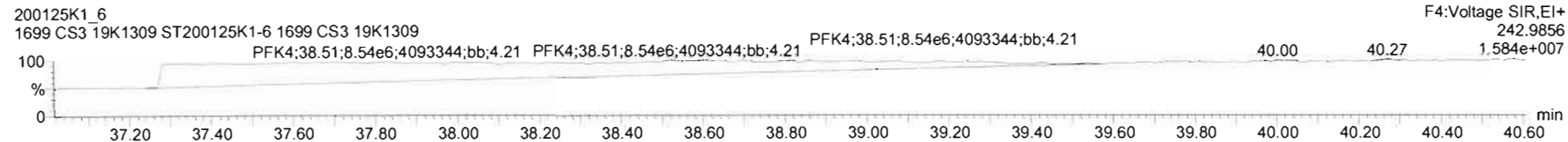
PFK2



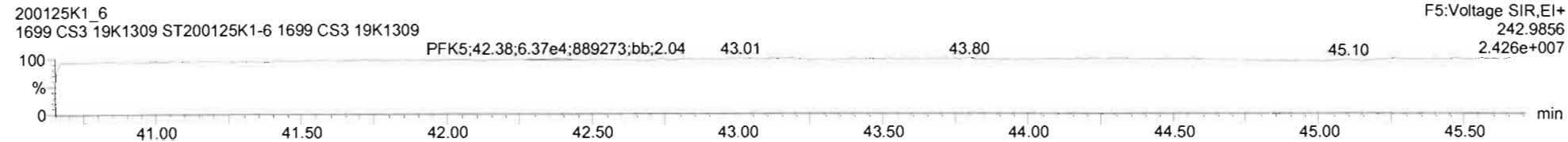
PFK3



PFK4



PFK5



Dataset: Untitled

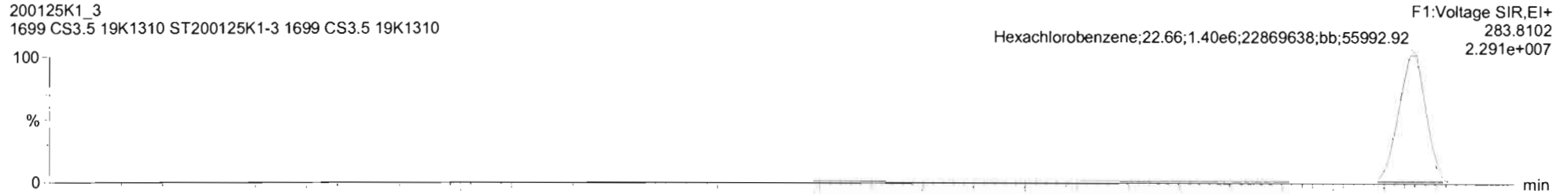
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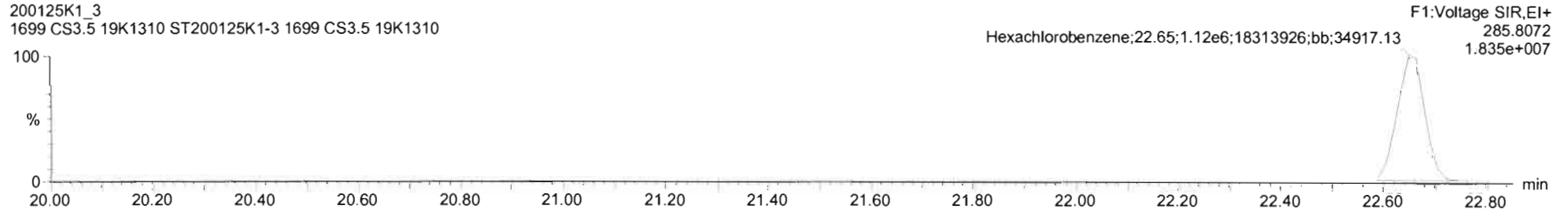
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Hexachlorobenzene

200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

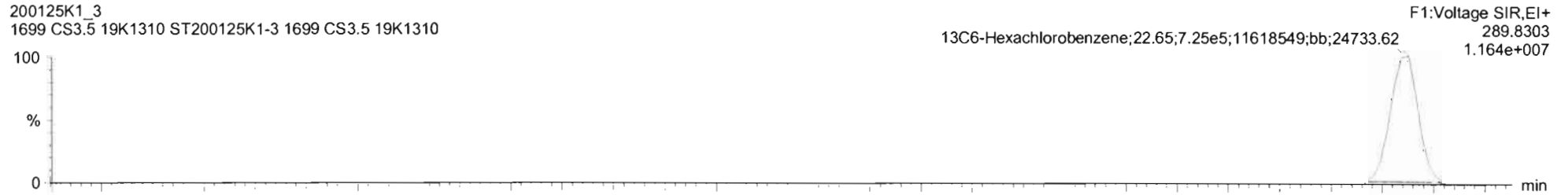


200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

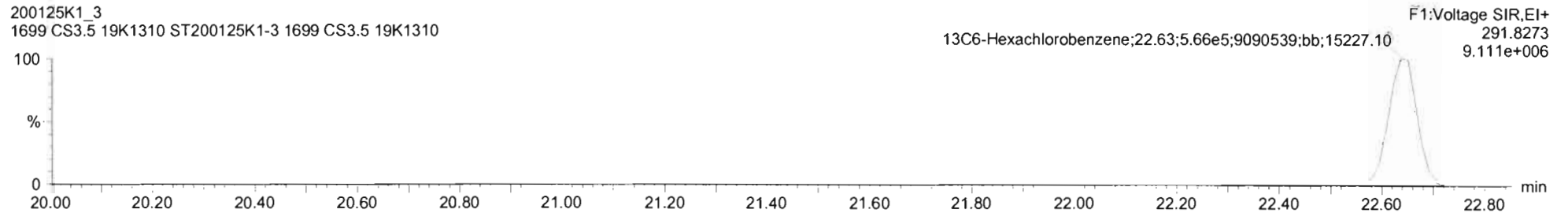


13C6-Hexachlorobenzene

200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310



200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310



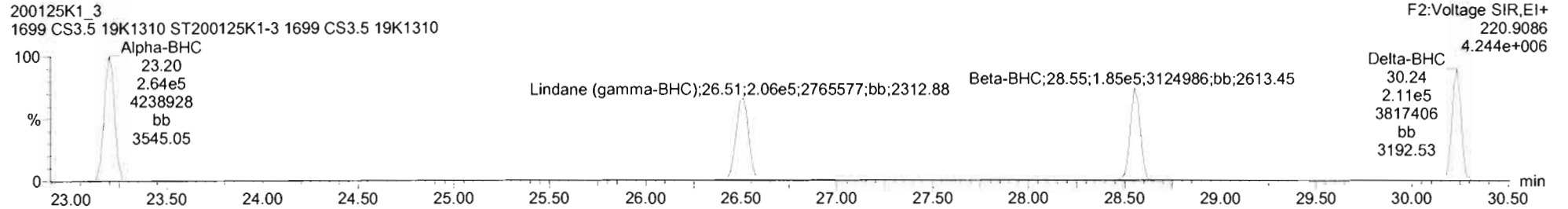
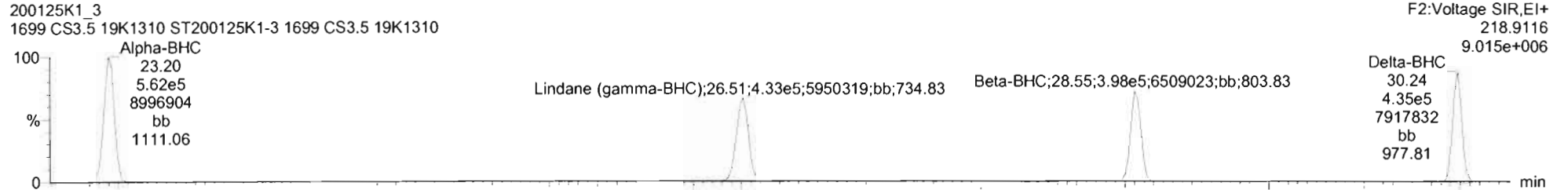
Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

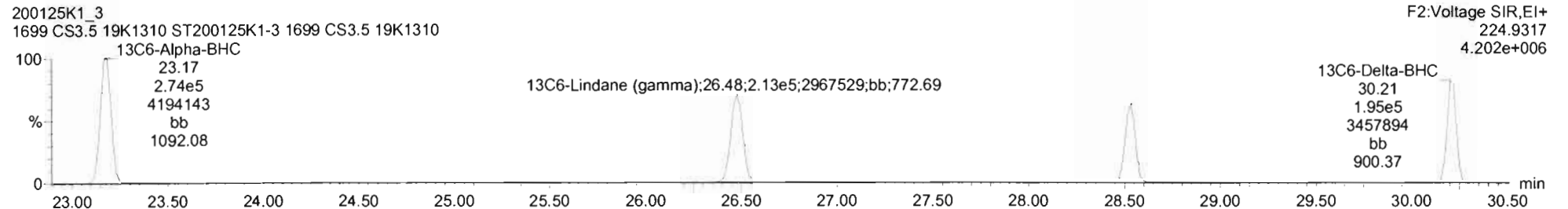
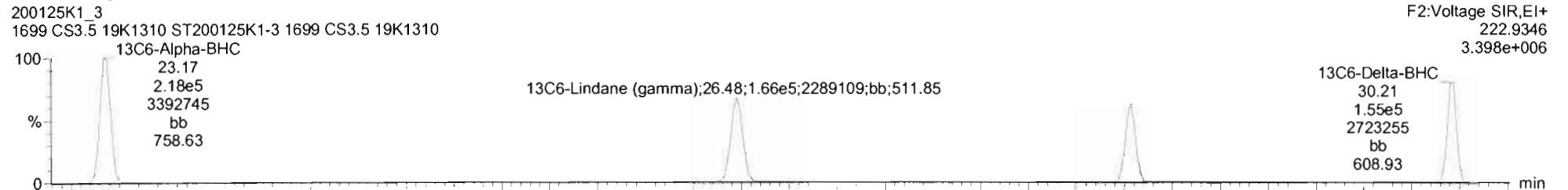
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_3, Date: 25-Jan-2020, Time: 14:45:00, ID: ST200125K1-3 1699 CS3.5 19K1310, Description: 1699 CS3.5 19K1310

BHC Totals



BHC-isotopes



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

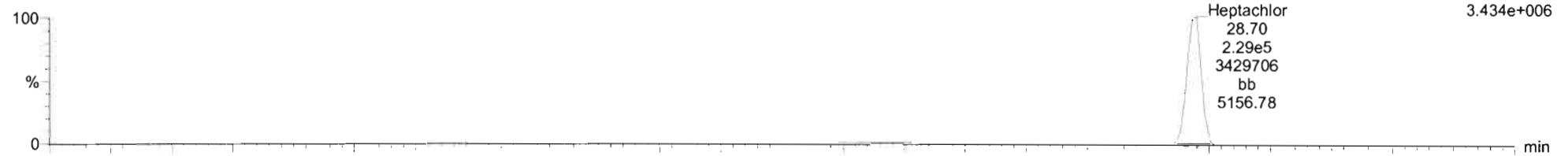
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_3, Date: 25-Jan-2020, Time: 14:45:00, ID: ST200125K1-3 1699 CS3.5 19K1310, Description: 1699 CS3.5 19K1310

Heptachlor

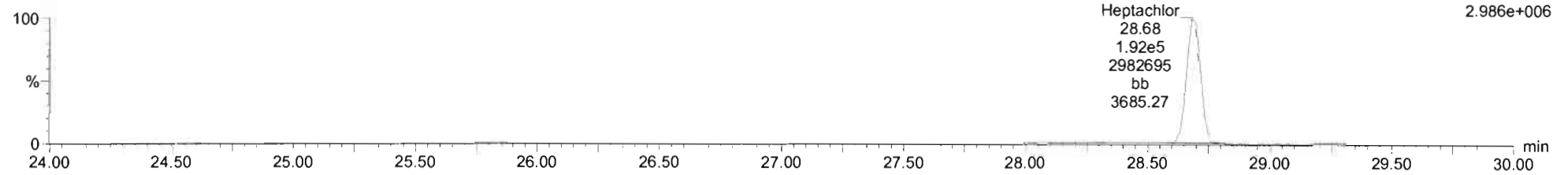
200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

F2:Voltage SIR,EI+
271.8102
3.434e+006



200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

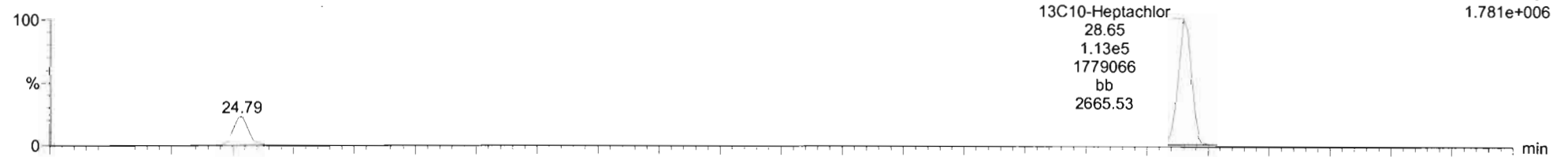
F2:Voltage SIR,EI+
273.8072
2.986e+006



13C10-Heptachlor

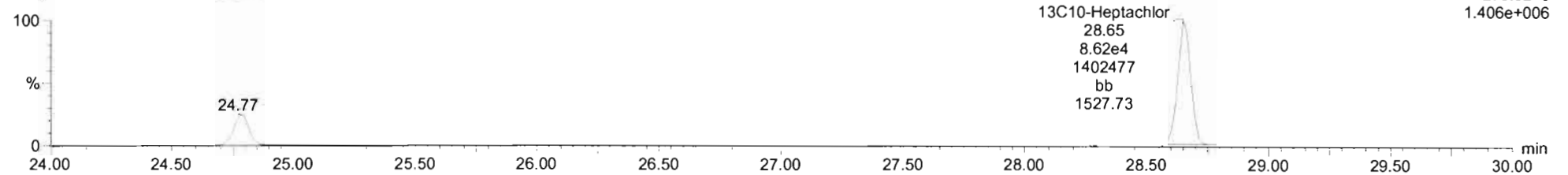
200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

F2:Voltage SIR,EI+
276.8269
1.781e+006



200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

F2:Voltage SIR,EI+
278.8240
1.406e+006



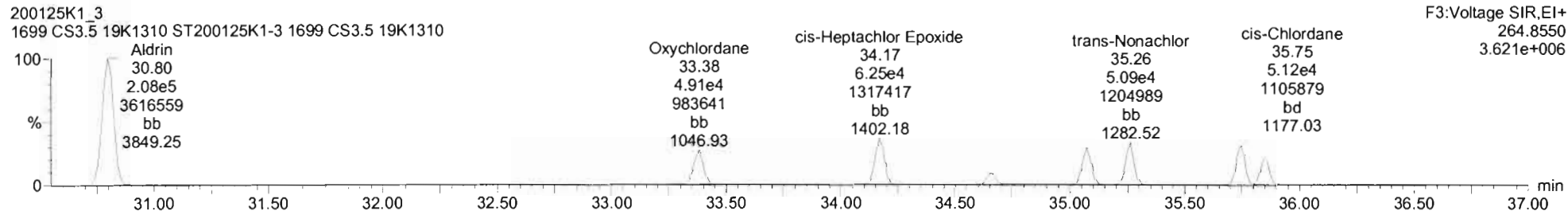
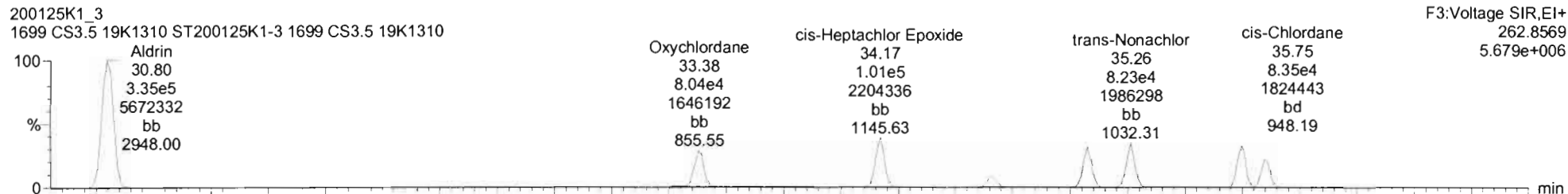
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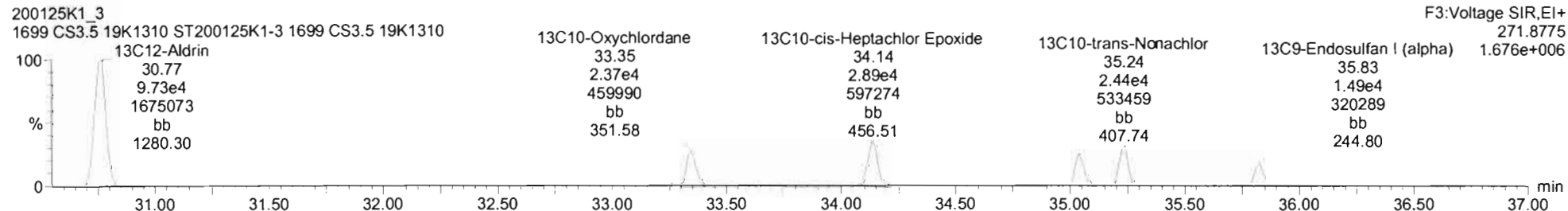
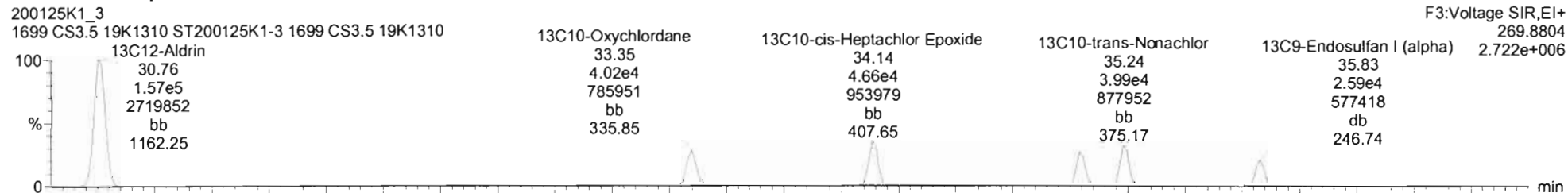
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

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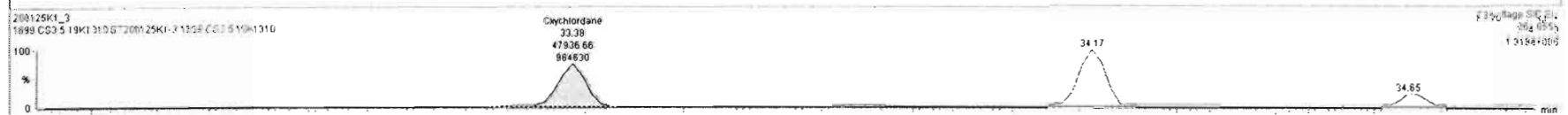
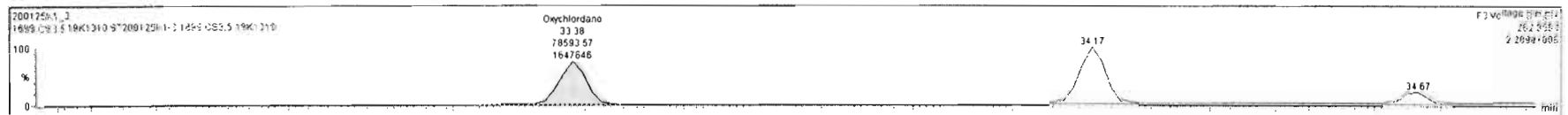
Aldrin-EI



Aldrin-EI-isotopes



#	Name	Resp	IS Resp	IS#	RA	nly	RRF	wt%	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	Hexachlorobutadiene	3.09e4	2.47e6	33	0.06	YES	0.0339	1.000	9.97	9.97	1.000	1.000	NO	184	36.9	0.276	18.4
2	Hexachlorobenzene	2.52e6	1.29e6	34	1.25	NO	0.9989	1.000	22.67	22.66	1.001	1.001	NO	98.0	98.0	0.005	98.0
3	Alpha-BHC	6.25e5	4.93e5	35	2.13	NO	0.8617	1.000	23.21	23.20	1.001	1.002	NO	97.2	97.2	0.176	97.2
4	Lindane (gamma-BHC)	6.40e5	3.79e5	36	2.10	NO	0.8690	1.000	26.51	26.51	1.001	1.001	NO	97.1	97.1	0.255	97.1
5	Beta-BHC	5.84e5	2.94e5	37	2.15	NO	1.0173	1.000	28.54	28.55	1.001	1.000	NO	97.6	97.6	0.235	97.6
6	Delta-BHC	6.48e5	3.50e5	38	2.06	NO	0.9521	1.000	30.23	30.24	1.001	1.001	NO	97.0	97.0	0.190	97.0
7	Heptachlor	4.71e5	1.98e5	39	1.19	NO	1.0787	1.000	28.68	28.69	1.002	1.001	NO	97.8	97.8	0.0545	97.8
8	4,4'-DDNU	8.59e5	3.50e5	38	3.11	NO	1.2643	1.000	30.12	30.14	0.999	0.997	NO	97.0	97.0	0.121	97.0
9	Aldrin	5.43e5	2.54e5	40	1.81	NO	1.1111	1.000	30.79	30.80	1.001	1.001	NO	96.1	96.1	0.0731	96.1
10	Oxychlorane	1.27e5	5.99e4	41	1.64	NO	1.0960	1.000	33.37	33.38	1.001	1.001	NO	96.1	96.1	0.261	96.1
11	cis-Heptachlor Epoxide	1.64e5	7.55e4	47	1.62	NO	1.1318	1.000	34.16	34.17	1.001	1.001	NO	96.0	96.0	0.205	96.0
12	trans-Heptachlor Epoxide	3.85e4	7.55e4	42	1.59	NO	0.2603	1.000	34.85	34.87	1.015	1.015	NO	99.1	99.1	0.069	99.1
13	trans-Chlordane (gamma)	1.26e5	5.32e4	43	1.63	NO	1.1780	1.000	35.07	35.08	1.001	1.001	NO	100	100	0.260	100
14	trans-Nonachlor	1.33e5	6.43e4	44	1.62	NO	1.0766	1.000	35.26	35.26	1.001	1.001	NO	96.3	96.3	0.235	96.3
15	cis-Chlordane	1.35e5	6.43e4	44	1.63	NO	1.1090	1.000	35.74	35.75	1.015	1.014	NO	94.8	94.8	0.228	94.6
16	Endosulfan I (alpha)	9.25e4	4.08e4	45	1.62	NO	1.1552	1.000	35.86	35.85	1.000	1.001	NO	98.1	98.1	0.341	98.1
17	4,4'-DDMU	1.93e6	1.48e6	46	3.16	NO	0.6758	1.000	35.51	35.50	0.994	0.994	NO	97.0	97.0	0.0443	97.0
18	4,4'-DDE	2.94e6	1.48e6	46	1.41	NO	0.9841	1.000	35.73	35.73	1.000	1.000	NO	97.7	97.7	0.147	97.7



Dataset: Untitled

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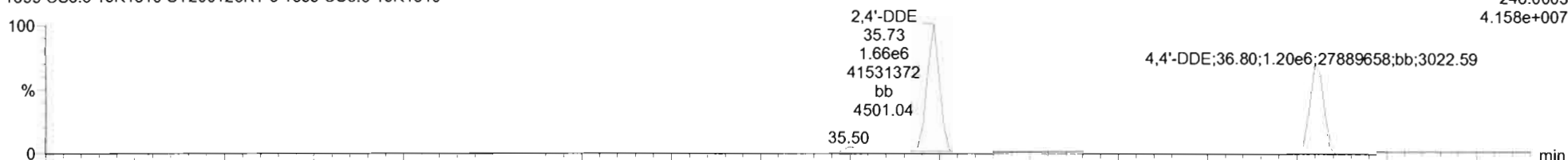
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_3, Date: 25-Jan-2020, Time: 14:45:00, ID: ST200125K1-3 1699 CS3.5 19K1310, Description: 1699 CS3.5 19K1310

DDMU-DDE

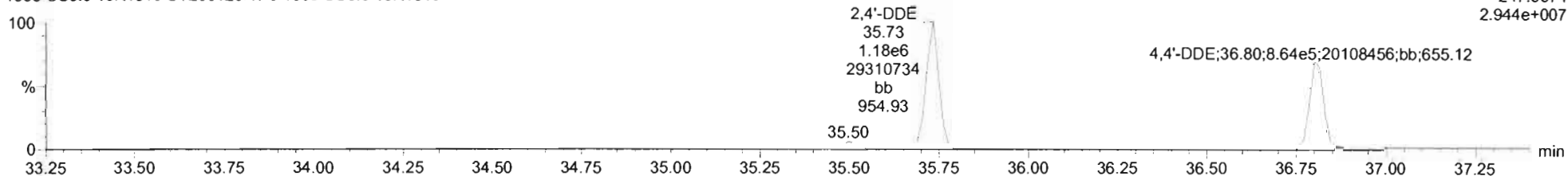
200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

F3:Voltage SIR,EI+
246.0003
4.158e+007



200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

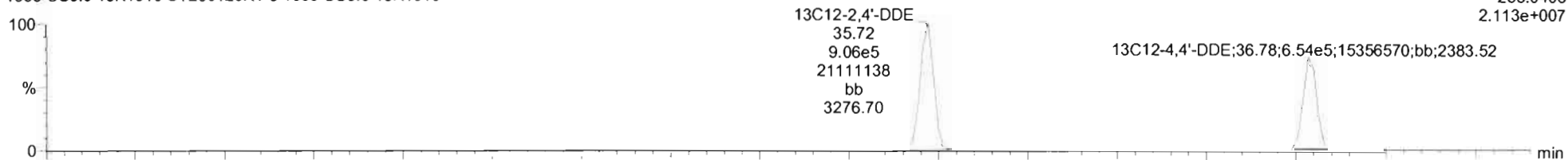
F3:Voltage SIR,EI+
247.9974
2.944e+007



DDE-isotopes

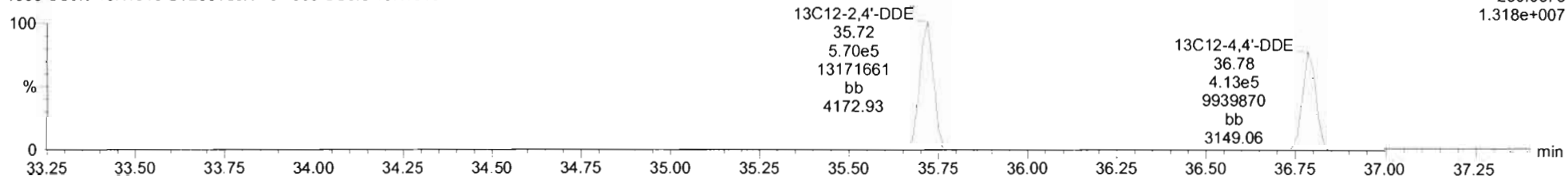
200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

F3:Voltage SIR,EI+
258.0406
2.113e+007



200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

F3:Voltage SIR,EI+
260.0376
1.318e+007



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

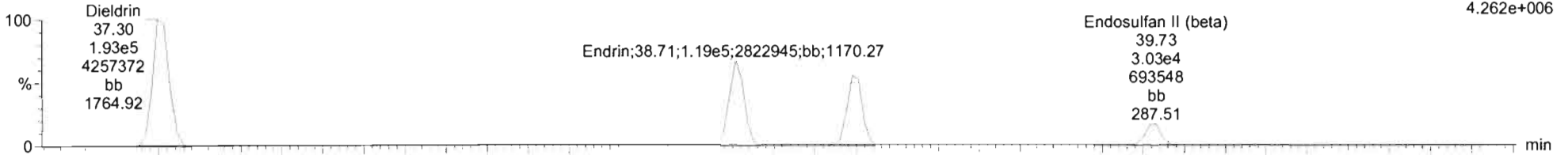
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

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Dieldrin-EII

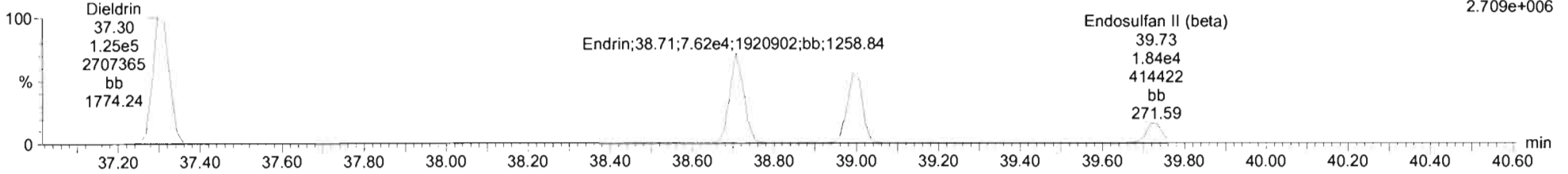
200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

F4:Voltage SIR,EI+
262.8569
4.262e+006



200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

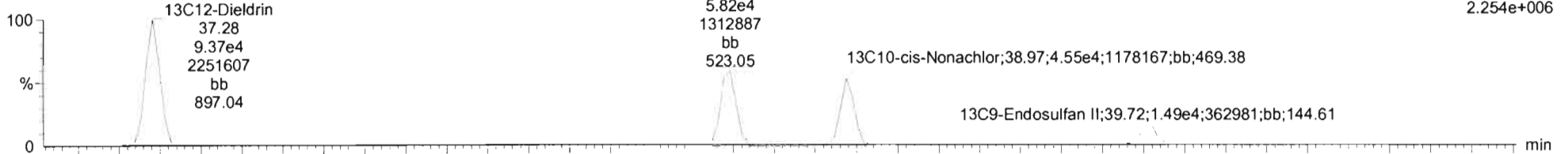
F4:Voltage SIR,EI+
264.8550
2.709e+006



Dieldrin-EII-isotopes

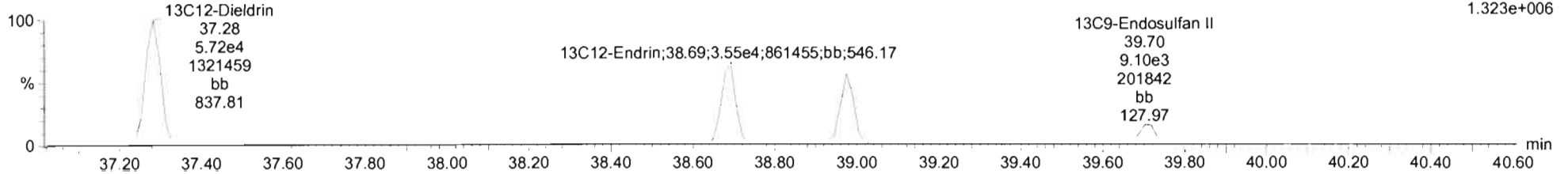
200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

F4:Voltage SIR,EI+
269.8804
2.254e+006



200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

F4:Voltage SIR,EI+
271.8775
1.323e+006



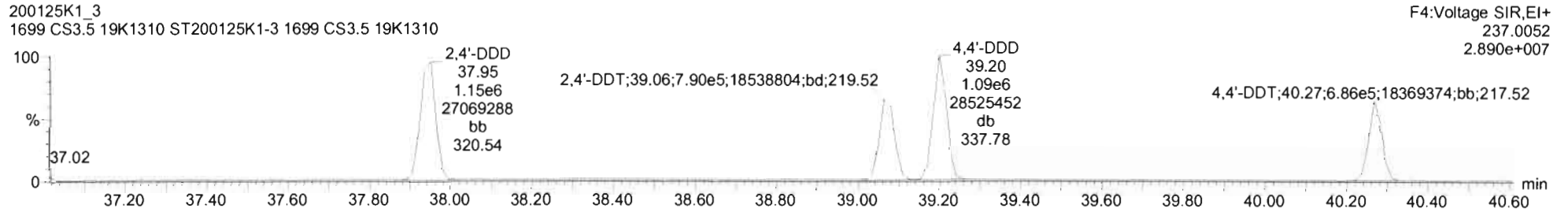
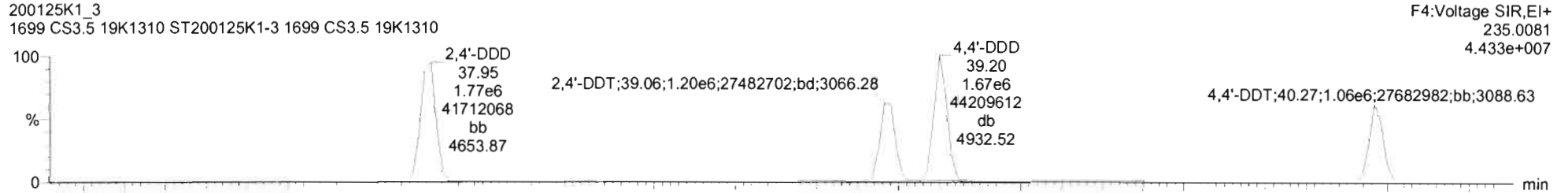
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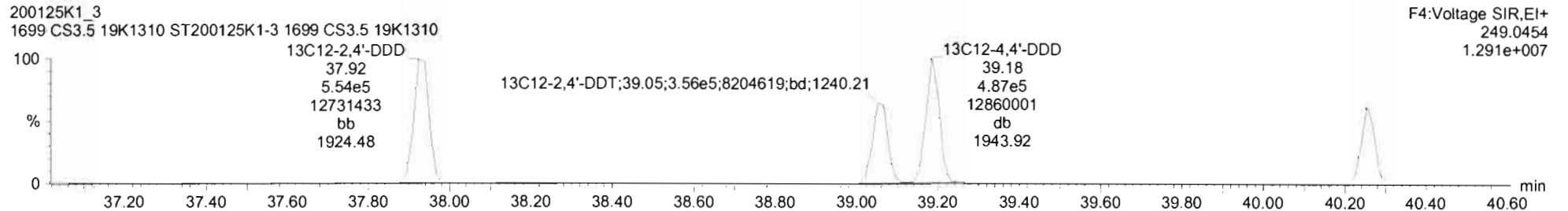
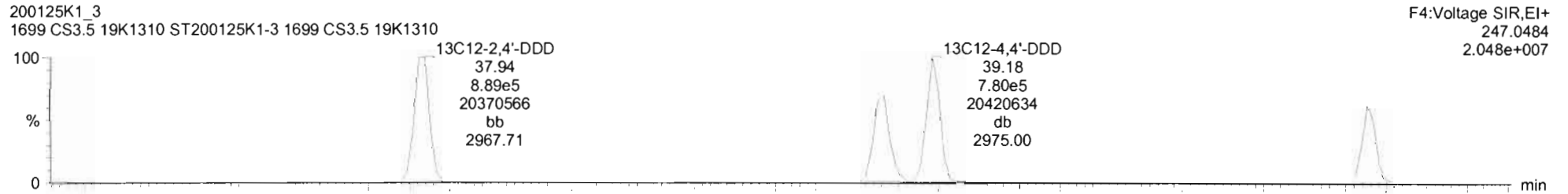
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DDD-DDT



DDD-DDT-isotopes



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

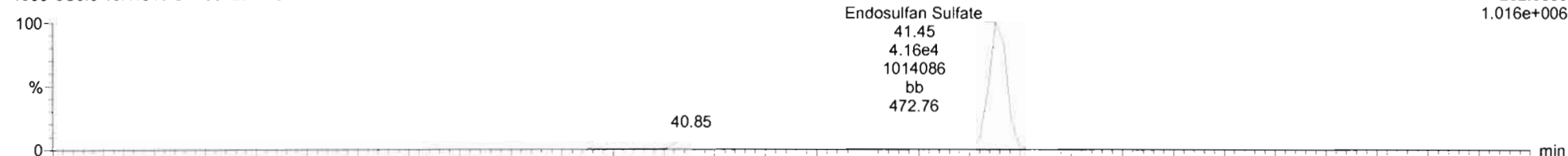
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Name: 200125K1_3, Date: 25-Jan-2020, Time: 14:45:00, ID: ST200125K1-3 1699 CS3.5 19K1310, Description: 1699 CS3.5 19K1310

Endosulfan Sulfate

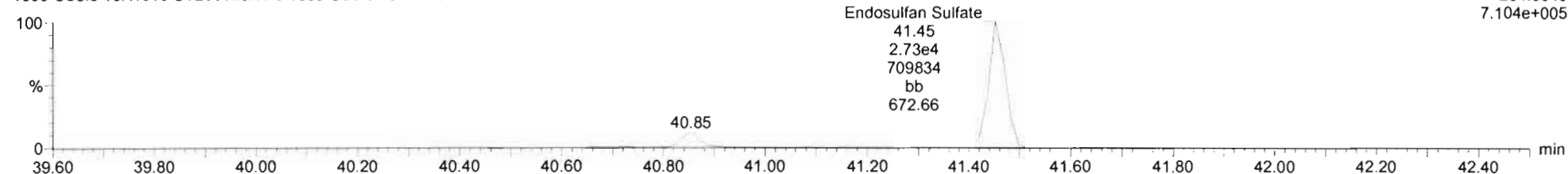
200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

F5:Voltage SIR,EI+
262.8569
1.016e+006



200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

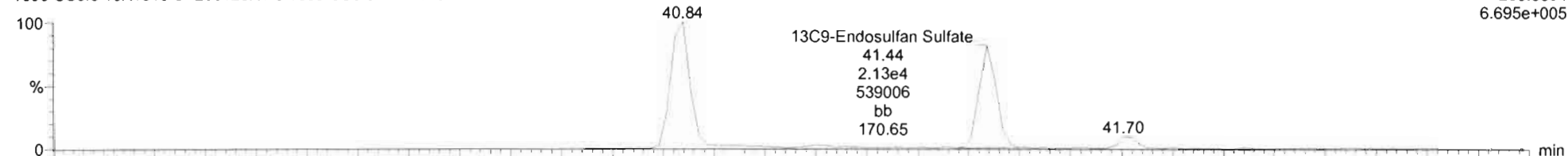
F5:Voltage SIR,EI+
264.8540
7.104e+005



13C9-Endosulfan Sulfate

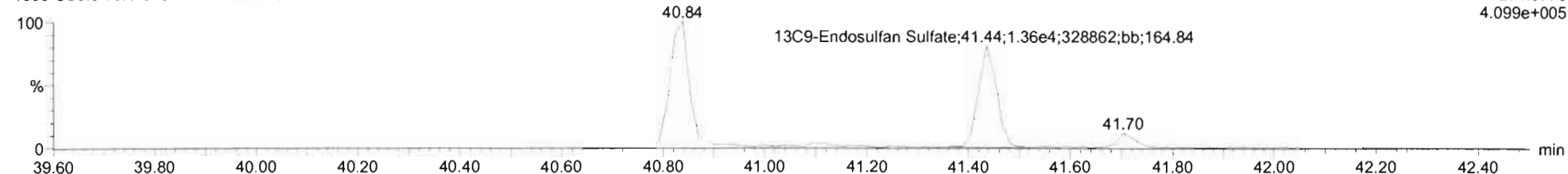
200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

F5:Voltage SIR,EI+
269.8804
6.695e+005



200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

F5:Voltage SIR,EI+
271.8775
4.099e+005



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

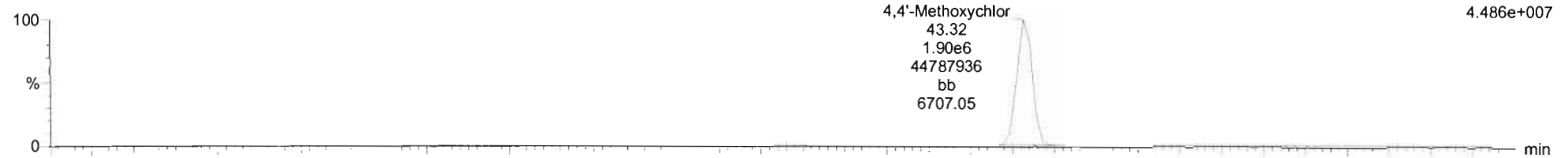
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Name: 200125K1_3, Date: 25-Jan-2020, Time: 14:45:00, ID: ST200125K1-3 1699 CS3.5 19K1310, Description: 1699 CS3.5 19K1310

4,4'-Methoxychlor

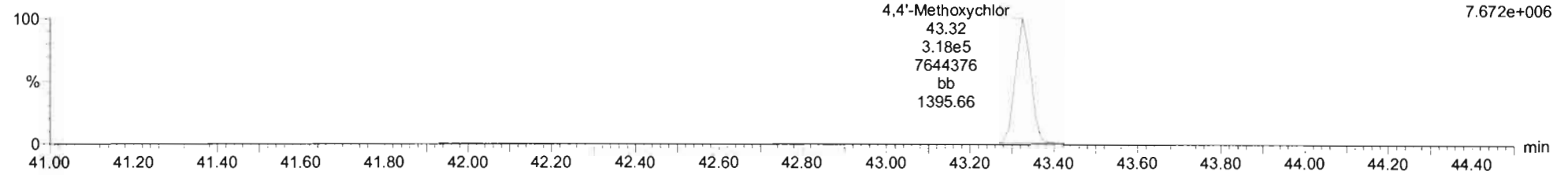
200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

F5:Voltage SIR,EI+
227.1072
4.486e+007



200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

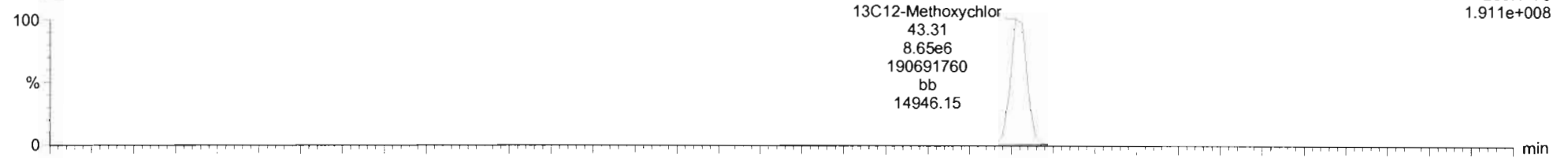
F5:Voltage SIR,EI+
228.1106
7.672e+006



13C12-Methoxychlor

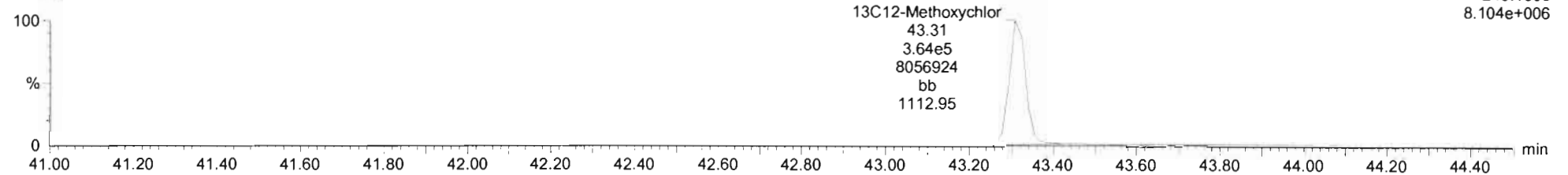
200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

F5:Voltage SIR,EI+
239.1475
1.911e+008



200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

F5:Voltage SIR,EI+
240.1508
8.104e+006



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

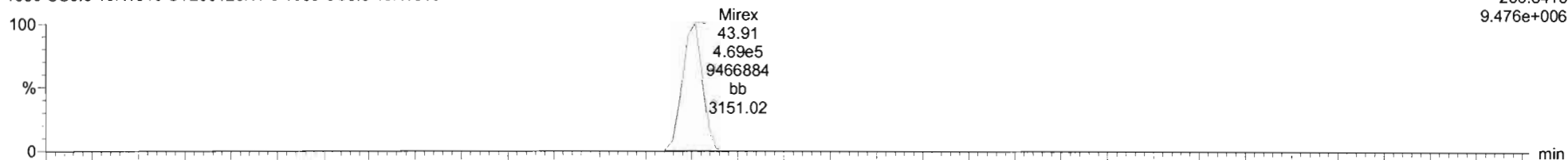
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Name: 200125K1_3, Date: 25-Jan-2020, Time: 14:45:00, ID: ST200125K1-3 1699 CS3.5 19K1310, Description: 1699 CS3.5 19K1310

Mirex

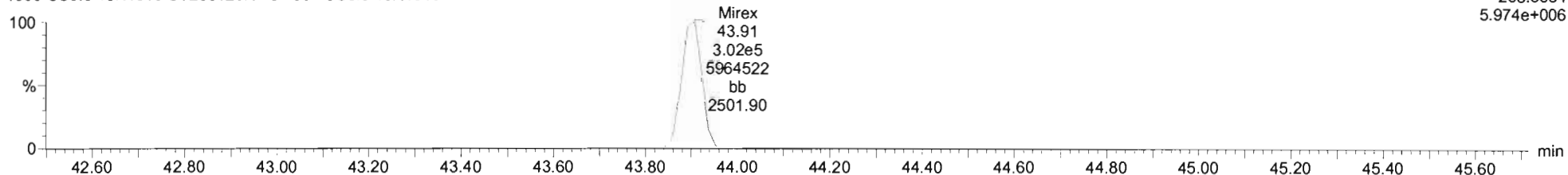
200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

F5:Voltage SIR,EI+
236.8413
9.476e+006



200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

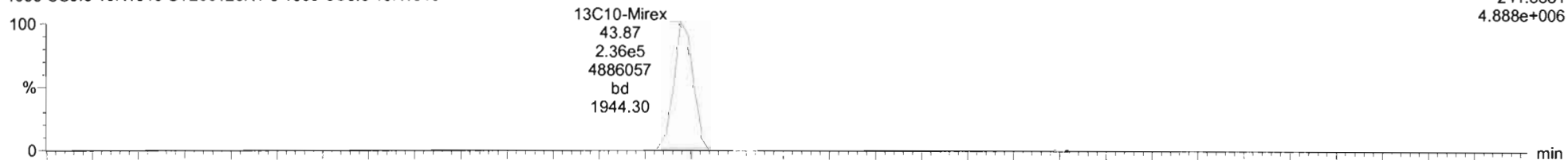
F5:Voltage SIR,EI+
238.8384
5.974e+006



13C10-Mirex

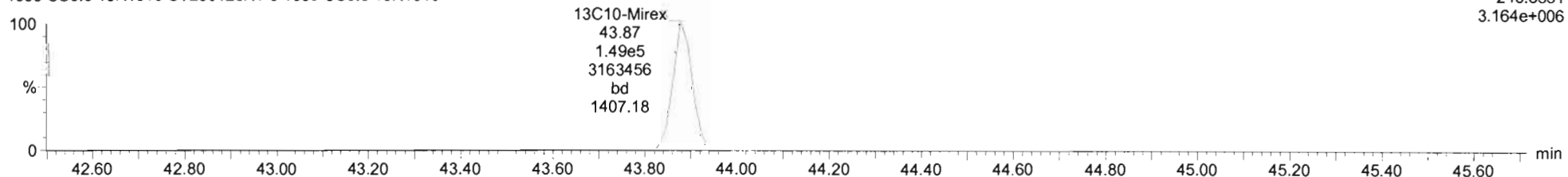
200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

F5:Voltage SIR,EI+
241.8581
4.888e+006



200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

F5:Voltage SIR,EI+
243.8551
3.164e+006



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

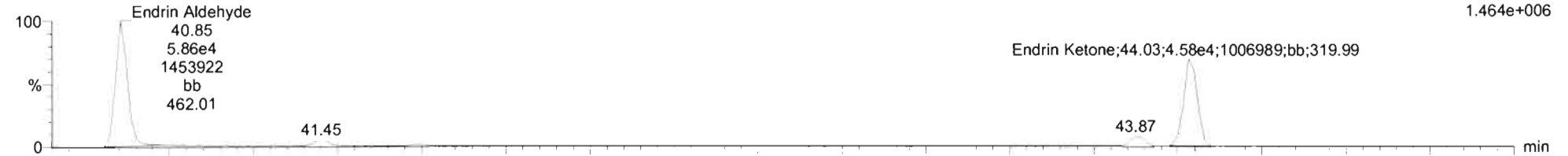
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Name: 200125K1_3, Date: 25-Jan-2020, Time: 14:45:00, ID: ST200125K1-3 1699 CS3.5 19K1310, Description: 1699 CS3.5 19K1310

EA-EK

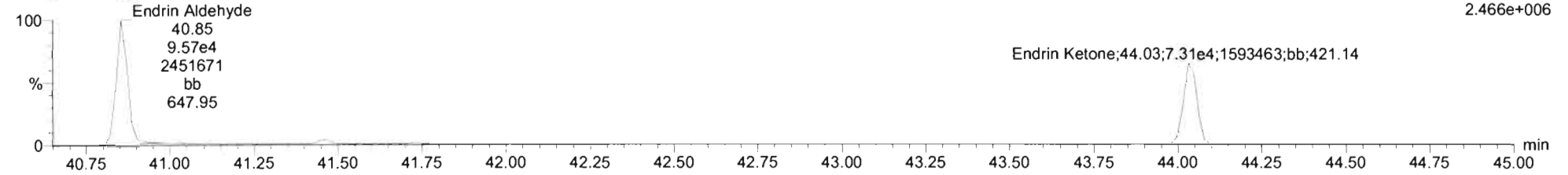
200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

F5:Voltage SIR,EI+
247.8521
1.464e+006



200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

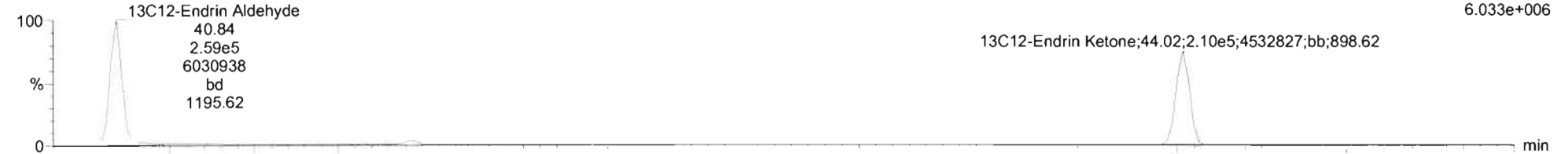
F5:Voltage SIR,EI+
249.8491
2.466e+006



EA-EK-isotopes

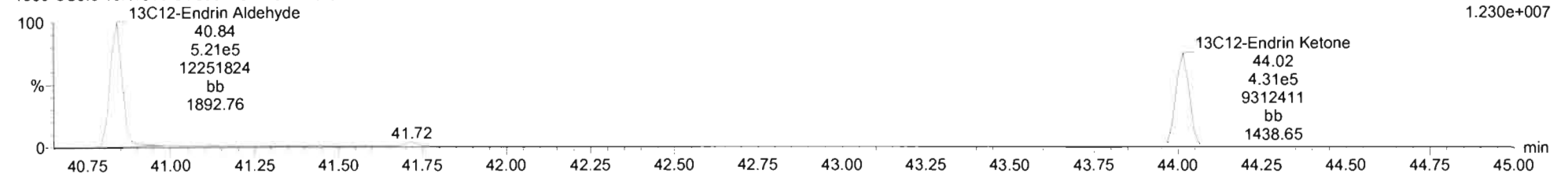
200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

F5:Voltage SIR,EI+
253.8722
6.033e+006

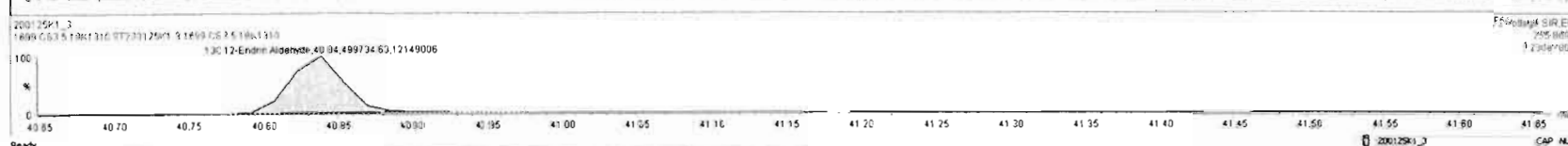


200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

F5:Voltage SIR,EI+
255.8693
1.230e+007



#	Name	Resp	IS Resp	IS#	RA	nly	RRF	wtAvl	Prod RT	RT	RRT	Prod RRT	Check RRT	Conc.	%Rec	DL	EMPC
20	Dieldrin	3.18e5	1.51e5	48	1.55	NO	1.0934	1.000	37.30	37.30	1.000	1.000	NO	98.4	98.4	0.124	98.4
21	Endrin	1.95e5	9.37e4	49	1.56	NO	1.0566	1.000	38.69	38.71	1.000	1.000	NO	98.5	98.5	0.220	98.5
22	cis-Hexachlor	1.64e5	7.43e4	50	1.55	NO	1.0772	1.000	38.99	38.99	1.000	1.000	NO	100	100	0.238	100
23	Endosulfan I (beta)	4.07e4	7.40e4	51	1.65	NO	1.1102	1.000	39.72	39.73	1.000	1.000	NO	99.5	99.5	0.237	99.5
24	2,4'-DDE	7.93e6	1.44e6	52	1.54	NO	1.0402	1.000	37.94	37.95	1.000	1.000	NO	98.9	98.9	0.237	98.9
25	2,4'-DDD	1.39e5	1.01e5	53	1.52	NO	1.0249	1.000	38.08	38.08	1.000	1.000	NO	96.5	96.5	0.523	96.5
26	4,4'-DDE	7.78e5	1.27e6	54	1.54	NO	1.1226	1.000	39.20	39.20	1.000	1.000	NO	97.1	97.1	0.314	97.1
27	4,4'-DDD	1.75e6	7.94e5	55	1.54	NO	1.1336	1.000	40.27	40.27	1.000	1.000	NO	97.0	97.0	0.498	97.0
28	Endosulfan Sulfate	6.89e4	3.43e4	56	1.52	NO	0.9871	1.000	41.44	41.45	1.000	1.000	NO	99.9	99.9	0.460	99.9
29	4,4'-Methoxychlor	7.22e6	3.01e6	57	1.38	NO	1.2664	1.000	43.32	43.32	1.000	1.000	NO	97.2	97.2	0.0604	97.2
30	Mirex	7.71e5	3.95e5	58	1.55	NO	1.0435	1.000	43.90	43.91	1.001	1.000	NO	95.0	95.0	0.0809	95.0
31	Endrin Aldehyde	1.49e5	7.39e5	59	0.62	NO	1.0663	1.000	40.86	40.85	1.000	1.000	NO	94.4	94.4	0.443	94.4
32	Endrin Ketone	1.19e5	6.41e5	60	0.63	NO	0.9741	1.000	44.02	44.03	1.000	1.000	NO	95.2	95.2	0.643	95.2
33	1,3,4-Hexachlorobutadiene	2.47e6	1.91e6	62	1.28	NO	0.1267	1.000	9.95	9.97	0.384	0.383	NO	509	102	0.0365	
34	1,3,5-Hexachlorobenzene	1.20e6	1.91e6	62	1.28	NO	0.8741	1.000	22.65	22.65	0.872	0.872	NO	50.1	100	0.007	
35	1,3CB-Alpha-BHC	4.83e5	1.91e6	62	0.60	NO	0.2548	1.000	23.19	23.17	0.892	0.892	NO	50.8	101	0.157	
36	1,3CB-Lindane (gamma)	3.79e5	1.91e6	62	0.78	NO	0.2007	1.000	26.48	26.48	1.018	1.018	NO	49.4	98.6	0.199	
37	1,3CB-Delta-BHC	2.94e5	1.91e6	62	0.79	NO	0.1548	1.000	28.54	28.53	1.098	1.099	NO	48.7	99.4	0.259	



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

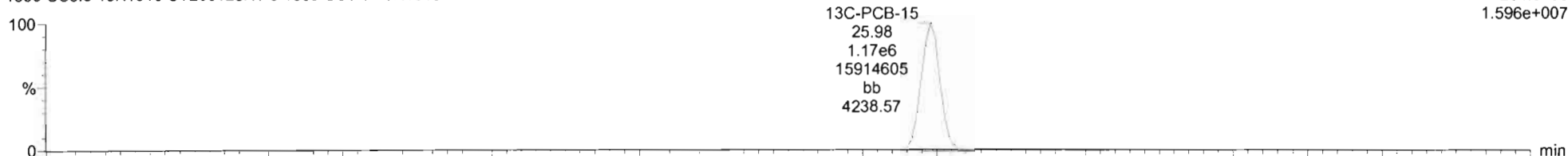
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Name: 200125K1_3, Date: 25-Jan-2020, Time: 14:45:00, ID: ST200125K1-3 1699 CS3.5 19K1310, Description: 1699 CS3.5 19K1310

13C-PCB-15

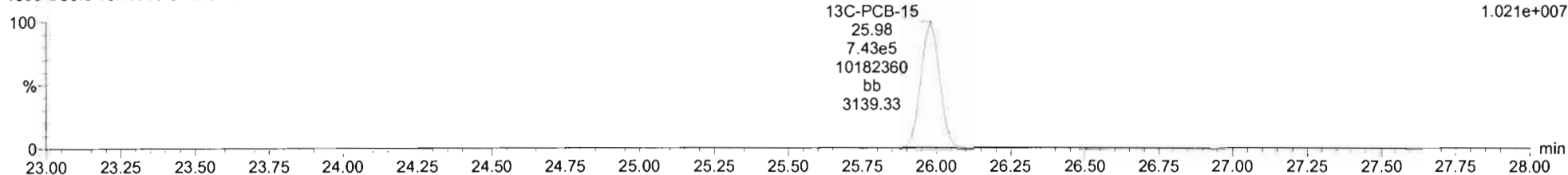
200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

F2:Voltage SIR,EI+
234.0406
1.596e+007



200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

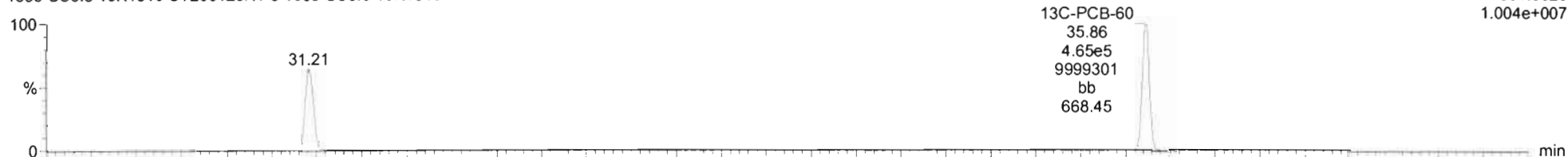
F2:Voltage SIR,EI+
236.0376
1.021e+007



13C-PCB-60

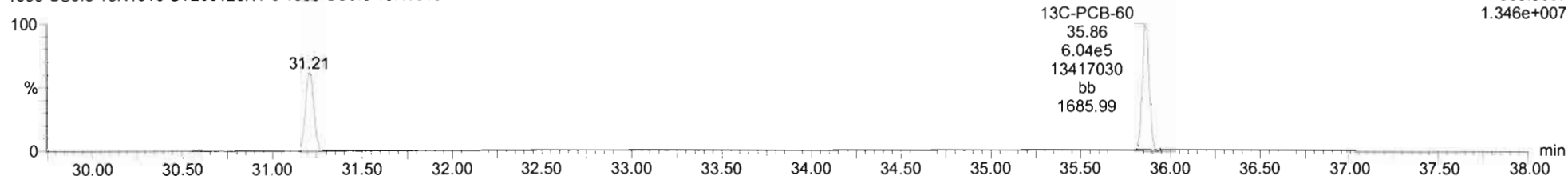
200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

F3:Voltage SIR,EI+
301.9626
1.004e+007



200125K1_3
1699 CS3.5 19K1310 ST200125K1-3 1699 CS3.5 19K1310

F3:Voltage SIR,EI+
303.9597
1.346e+007



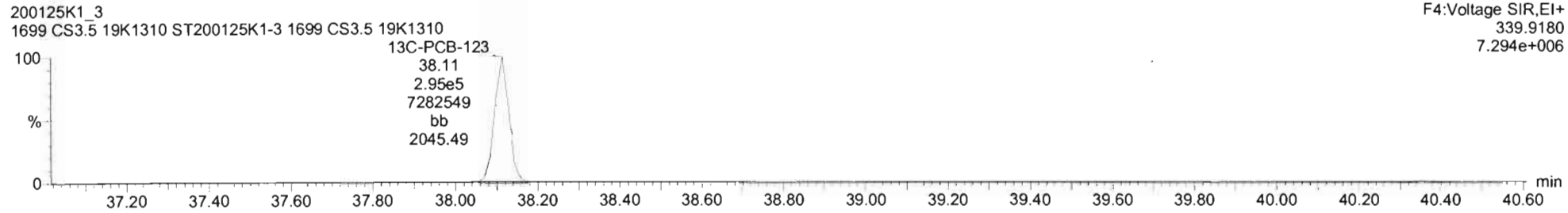
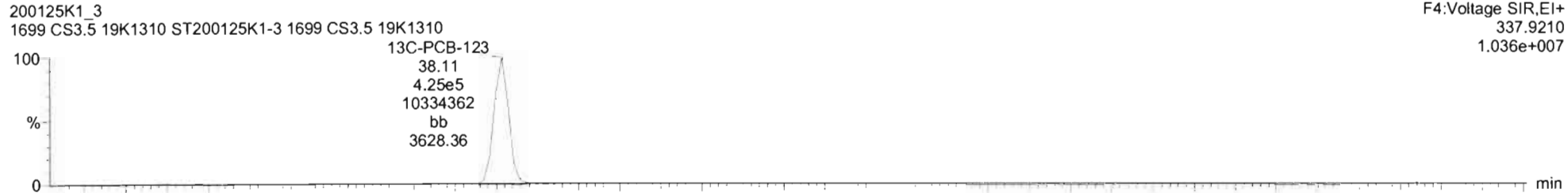
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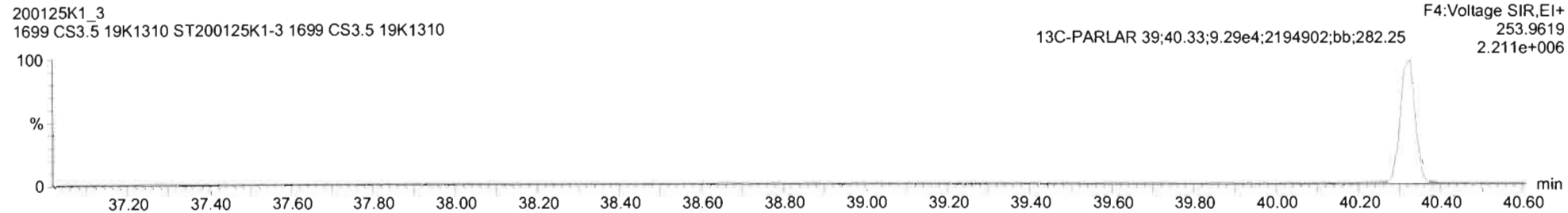
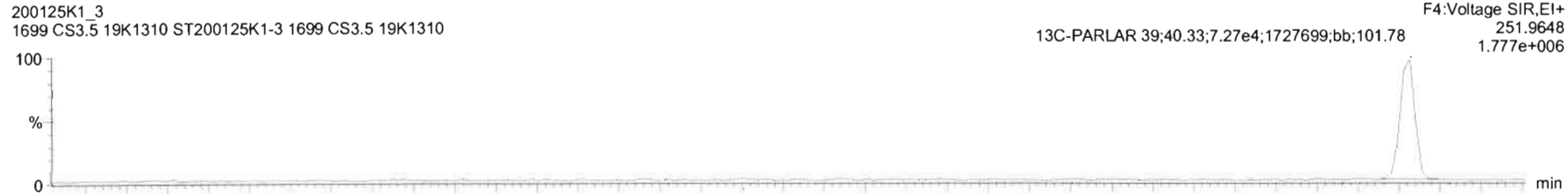
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13C-PCB-123



13C-PARLAR 39



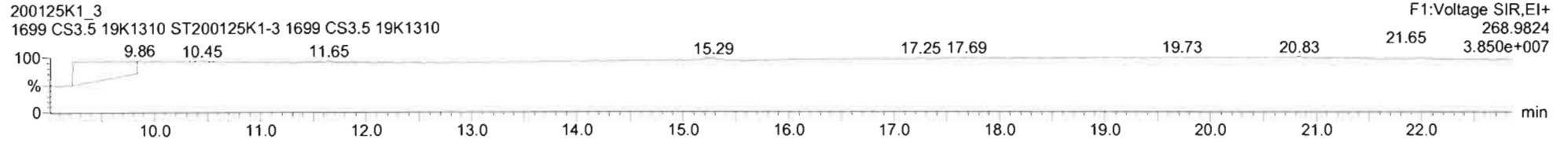
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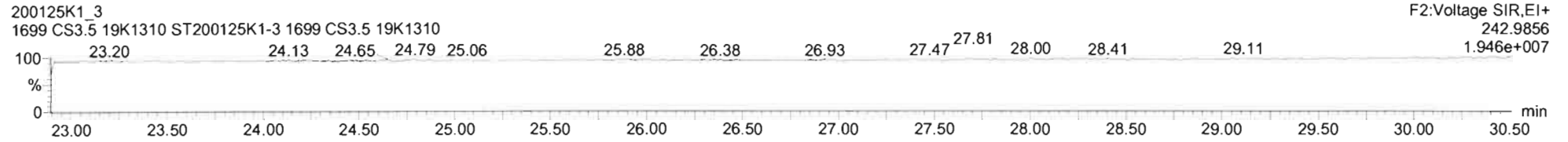
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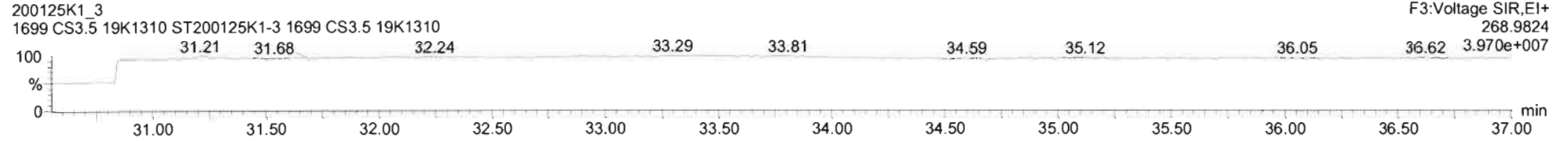
PFK1



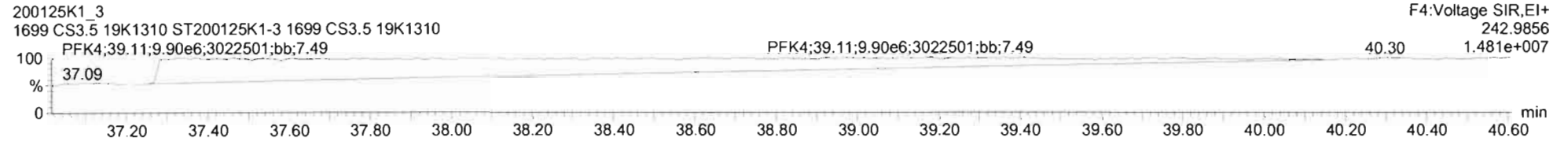
PFK2



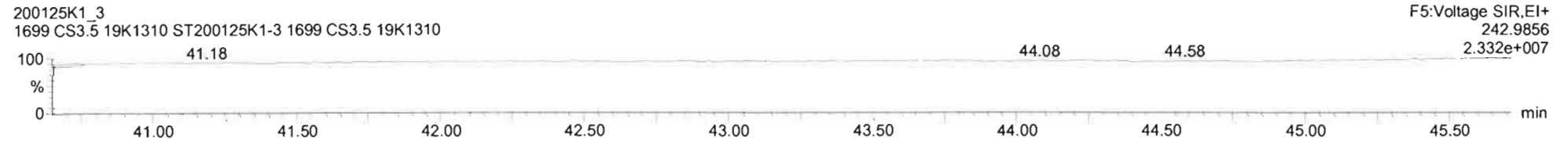
PFK3



PFK4



PFK5



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

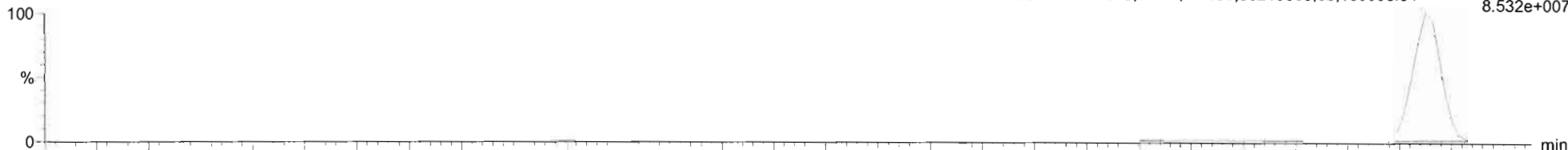
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Hexachlorobenzene

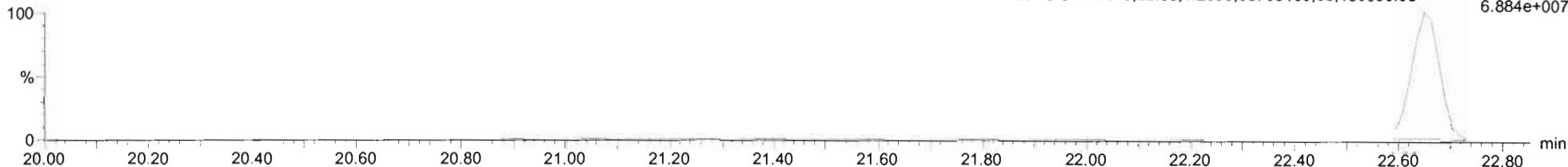
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

Hexachlorobenzene;22.65;5.30e6;85210568;bb;190058.94
F1:Voltage SIR,EI+
283.8102
8.532e+007



200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

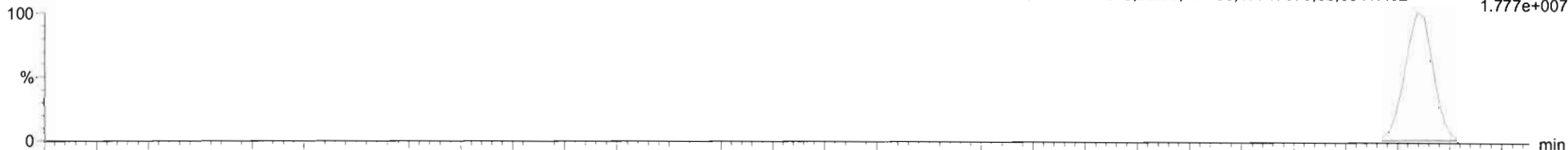
Hexachlorobenzene;22.65;4.28e6;68758160;bb;130096.08
F1:Voltage SIR,EI+
285.8072
6.884e+007



13C6-Hexachlorobenzene

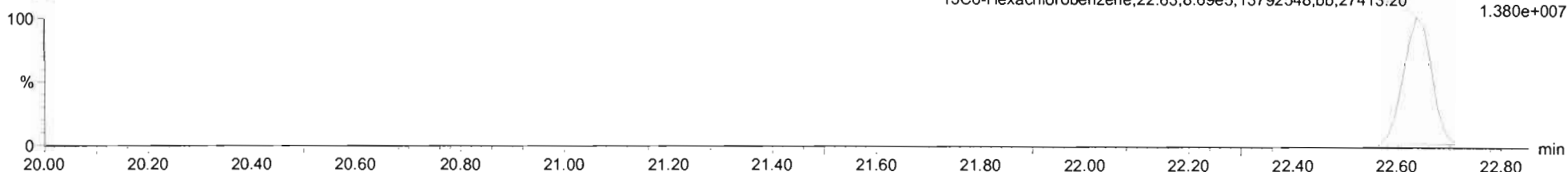
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

13C6-Hexachlorobenzene;22.63;1.11e6;17747078;bb;53417.62
F1:Voltage SIR,EI+
289.8303
1.777e+007



200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

13C6-Hexachlorobenzene;22.63;8.69e5;13792548;bb;27413.20
F1:Voltage SIR,EI+
291.8273
1.380e+007



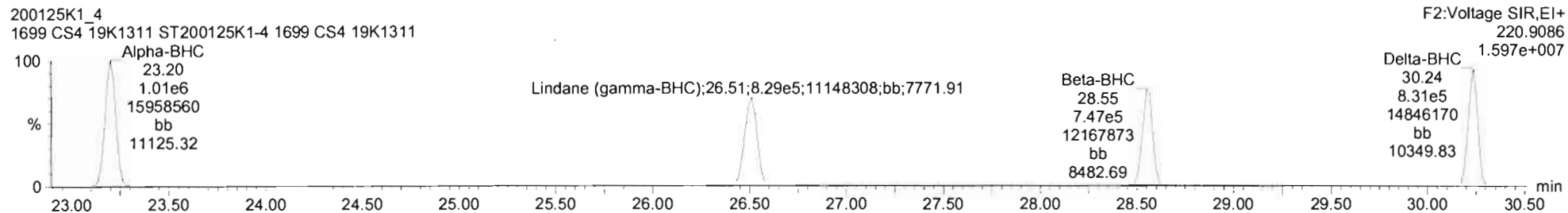
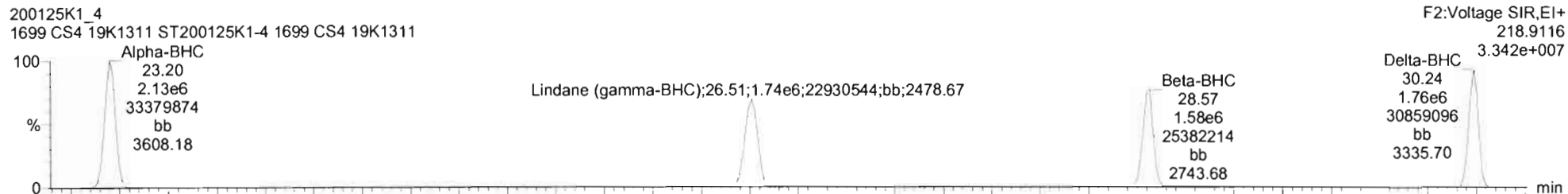
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Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

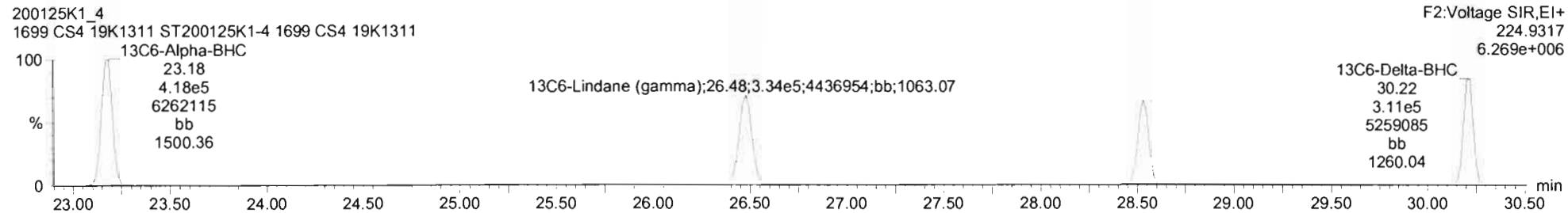
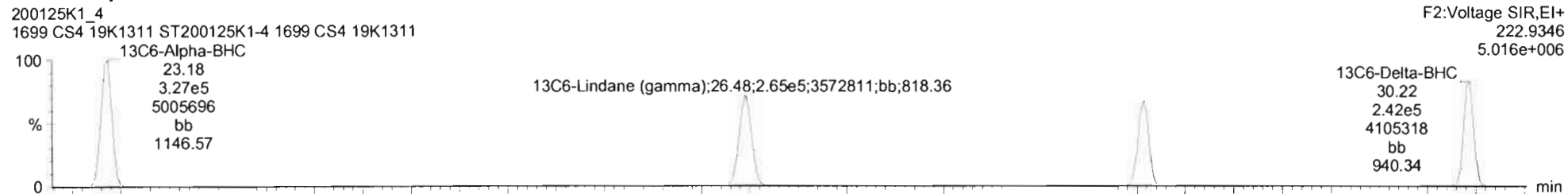
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BHC Totals



BHC-isotopes



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

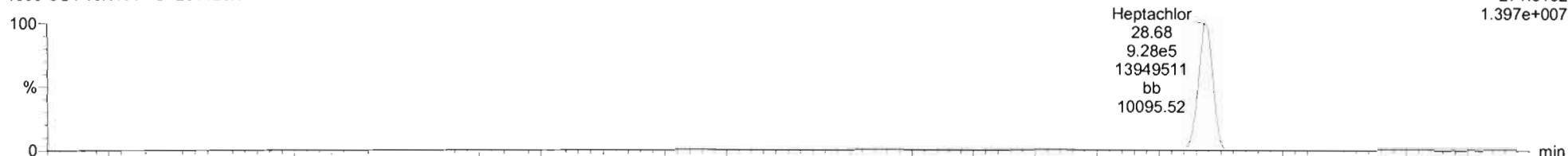
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Name: 200125K1_4, Date: 25-Jan-2020, Time: 15:34:14, ID: ST200125K1-4 1699 CS4 19K1311, Description: 1699 CS4 19K1311

Heptachlor

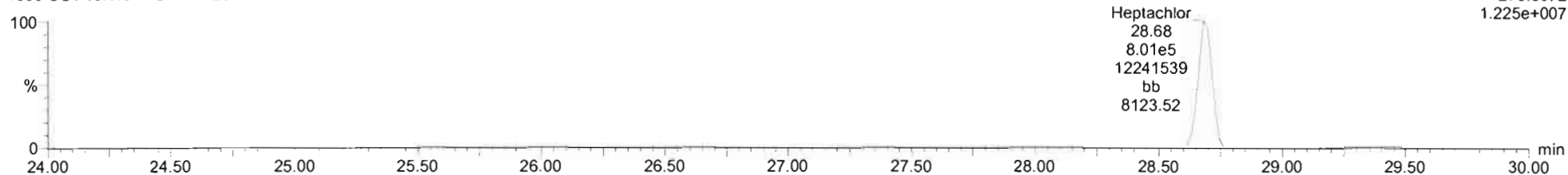
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

F2:Voltage SIR,EI+
271.8102
1.397e+007



200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

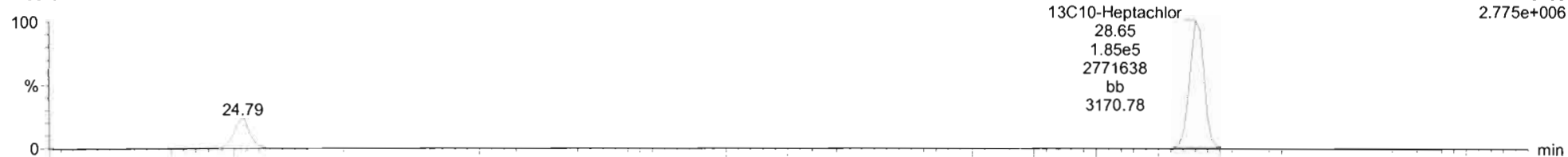
F2:Voltage SIR,EI+
273.8072
1.225e+007



13C10-Heptachlor

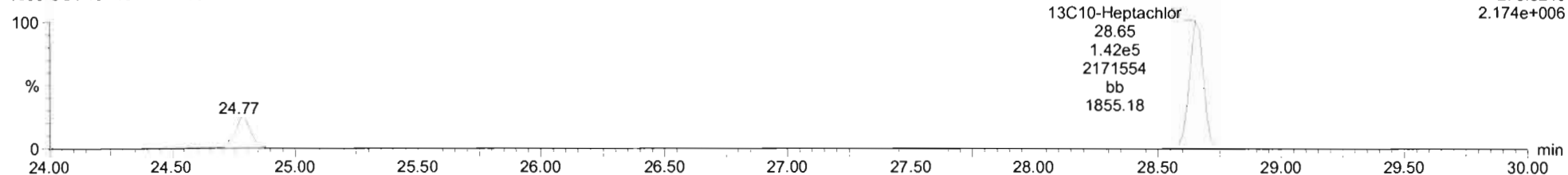
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

F2:Voltage SIR,EI+
276.8269
2.775e+006



200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

F2:Voltage SIR,EI+
278.8240
2.174e+006



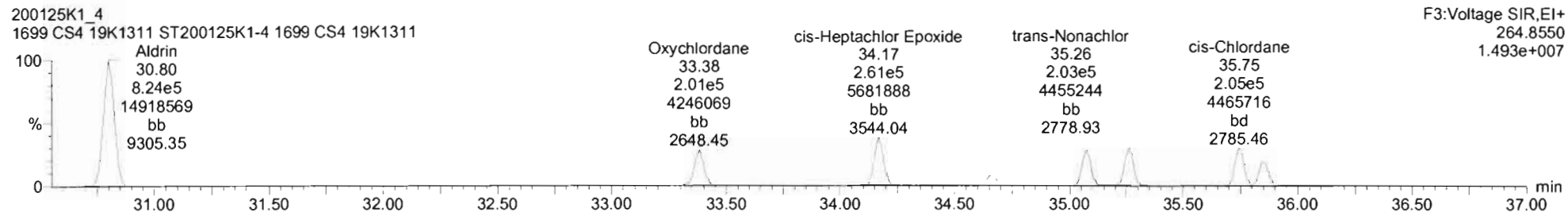
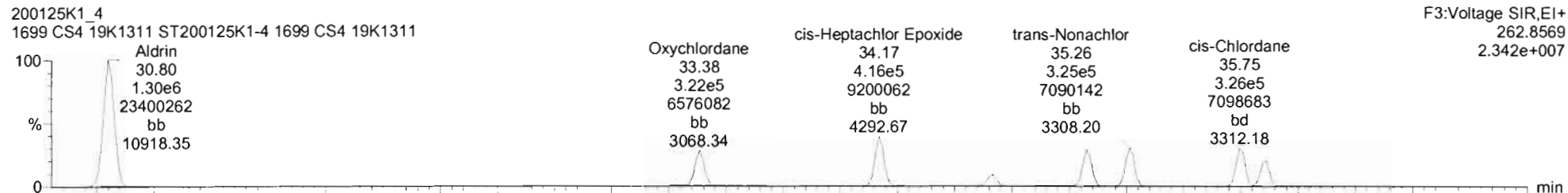
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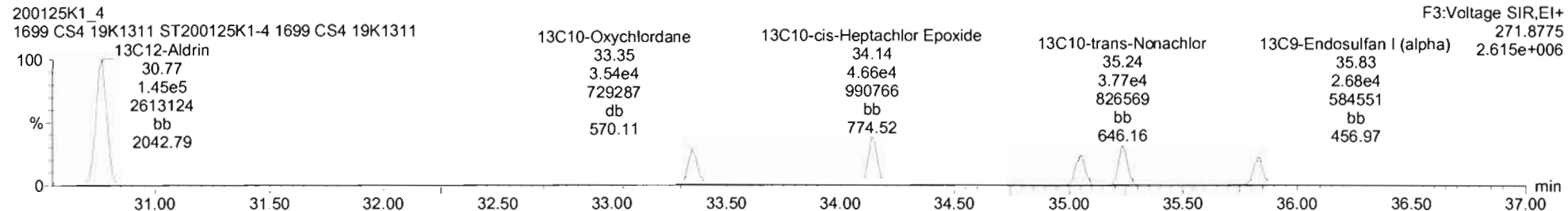
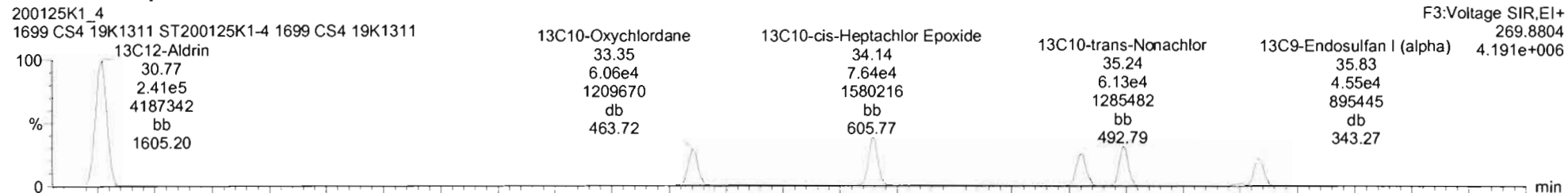
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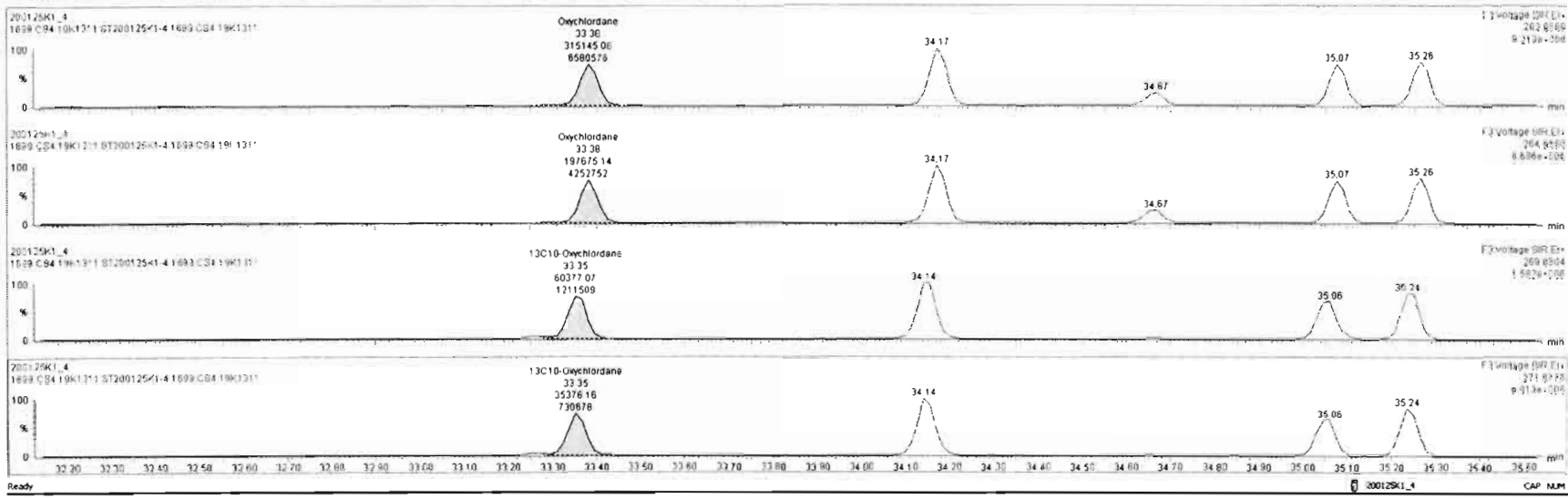
Aldrin-EI



Aldrin-EI-isotopes



#	Name	Resp	IS Resp	SA	RA	n/y	RRF	wt%	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	Hexachlorobutadiene	4.76e4	3.52e5	33	0.06	YES	0.0039	1.000	9.96	9.96	1.000	1.000	NO	199	15.9	0.201	18.7
2	Hexachlorobenzene	9.58e5	1.86e5	34	1.24	NO	0.9969	1.000	22.66	22.65	1.001	1.001	NO	242	97.0	0.003	242
3	Alpha-BHC	3.14e5	7.45e5	35	2.11	NO	0.9817	1.000	23.23	23.20	1.001	1.002	NO	244	97.6	0.136	244
4	Lindane (gamma-BHC)	2.57e5	5.99e5	36	2.09	NO	0.9690	1.000	25.51	26.51	1.001	1.001	NO	247	98.6	0.190	247
5	Beta-BHC	2.33e5	4.74e5	37	2.11	NO	1.0173	1.000	28.54	28.57	1.001	1.000	NO	241	96.5	0.171	241
6	Delta-BHC	2.59e5	5.54e5	38	2.11	NO	0.9521	1.000	30.34	30.24	1.001	1.001	NO	245	98.1	0.150	245
7	Heptachlor	1.73e5	3.27e5	39	1.16	NO	1.0787	1.000	29.66	29.68	1.001	1.001	NO	245	98.0	0.0684	245
8	4,4'-DDE	3.40e5	6.54e5	39	3.13	NO	1.2643	1.000	30.14	30.16	0.999	0.997	NO	243	97.1	0.0607	243
9	Aldrin	2.13e5	3.87e5	40	1.58	NO	1.1111	1.000	30.80	30.80	1.001	1.001	NO	247	98.9	0.0626	247
10	Oxychlorane	5.13e5	9.58e4	41	1.59	NO	1.0944	1.000	33.37	33.38	1.001	1.001	NO	246	97.9	0.222	246
11	cis-Hexachlor Epoxide	6.78e5	1.23e5	42	1.60	NO	1.1318	1.000	34.16	34.17	1.001	1.001	NO	243	97.4	0.163	243
12	trans-Hexachlor Epoxide	1.53e5	1.23e5	42	1.60	NO	0.2603	1.000	34.65	34.67	1.015	1.015	NO	239	95.6	0.707	239
13	trans-Chlordane (gamma)	4.91e5	8.60e4	43	1.57	NO	1.1780	1.000	35.08	35.08	1.000	1.001	NO	243	97.0	0.238	243
14	trans-Nitrochlor	5.29e5	9.90e4	44	1.60	NO	1.0766	1.000	35.26	35.26	1.001	1.001	NO	248	99.1	0.210	248
15	cis-Chlordane	5.31e5	9.90e4	44	1.59	NO	1.1080	1.000	35.74	35.75	1.015	1.014	NO	242	96.8	0.204	242
16	Endosulfan I (alpha)	3.87e5	7.29e4	45	1.59	NO	1.1552	1.000	35.85	35.86	1.001	1.001	NO	270	87.9	0.285	270
17	4,4'-DDMU	7.51e5	2.29e5	46	3.08	NO	0.6758	1.000	35.51	35.51	0.994	0.994	NO	242	96.9	0.0264	242
18	2,4'-DDE	1.09e7	2.29e5	46	1.40	NO	0.9841	1.000	35.73	35.73	1.000	1.000	NO	242	96.7	0.0969	242



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Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

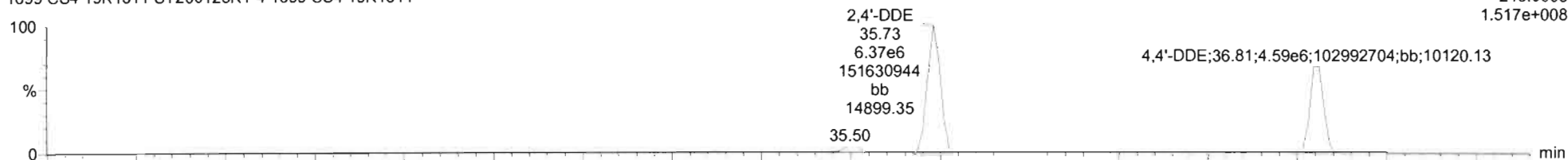
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_4, Date: 25-Jan-2020, Time: 15:34:14, ID: ST200125K1-4 1699 CS4 19K1311, Description: 1699 CS4 19K1311

DDMU-DDE

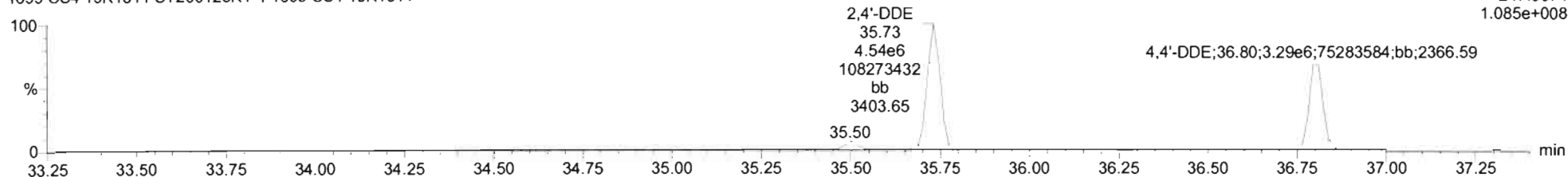
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

F3:Voltage SIR,EI+
246.0003
1.517e+008



200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

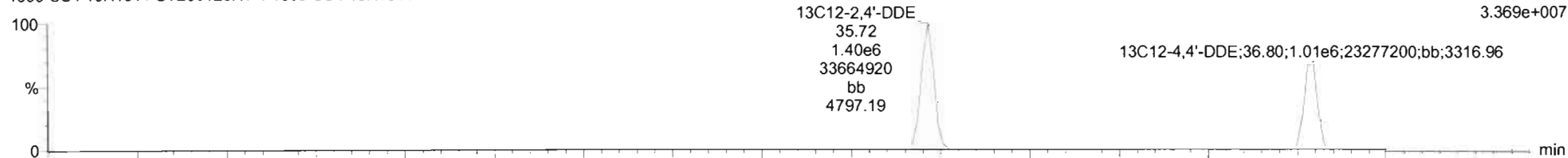
F3:Voltage SIR,EI+
247.9974
1.085e+008



DDE-isotopes

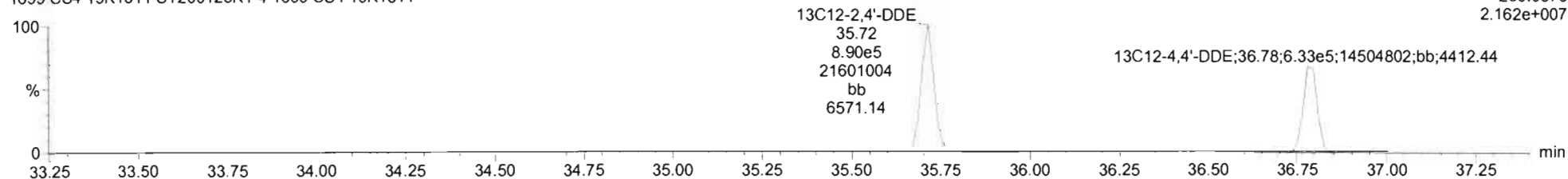
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

F3:Voltage SIR,EI+
258.0406
3.369e+007



200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

F3:Voltage SIR,EI+
260.0376
2.162e+007



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

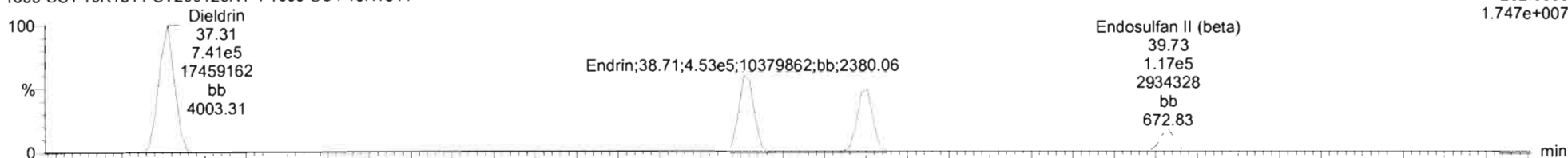
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Dieldrin-EII

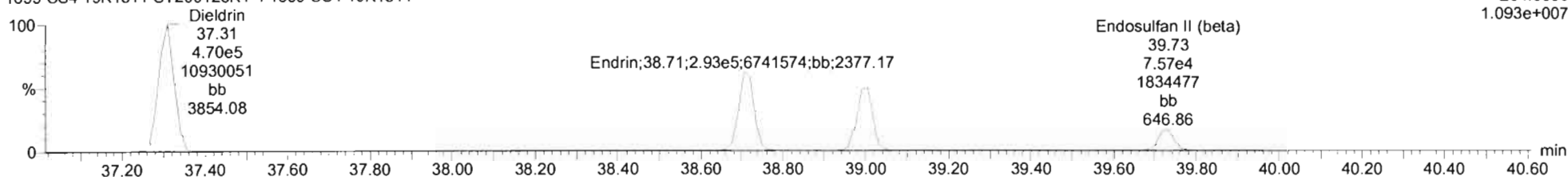
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

F4:Voltage SIR,EI+
262.8569
1.747e+007



200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

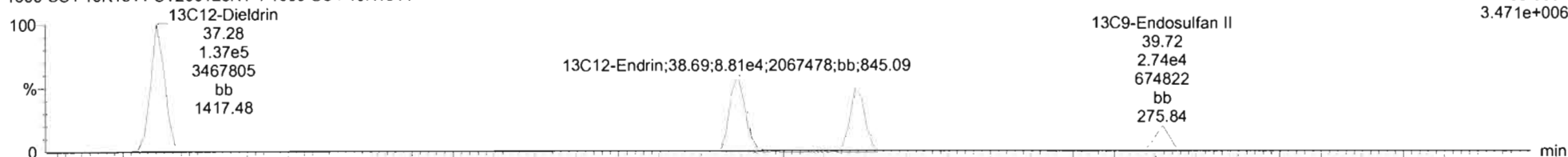
F4:Voltage SIR,EI+
264.8550
1.093e+007



Dieldrin-EII-isotopes

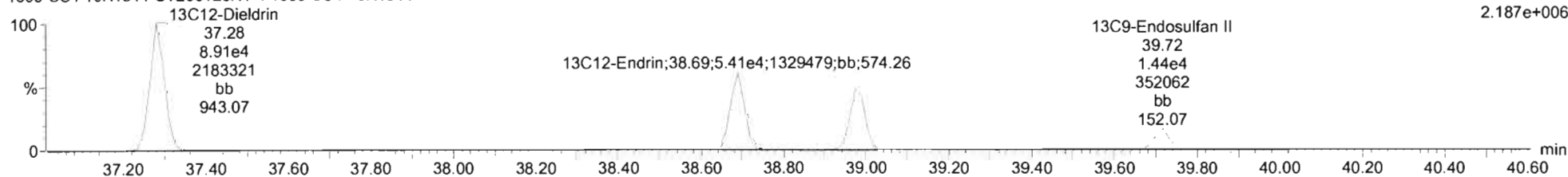
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

F4:Voltage SIR,EI+
269.8804
3.471e+006



200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

F4:Voltage SIR,EI+
271.8775
2.187e+006



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

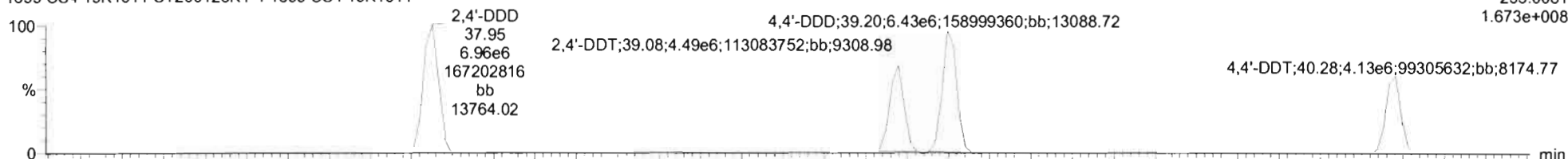
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DDD-DDT

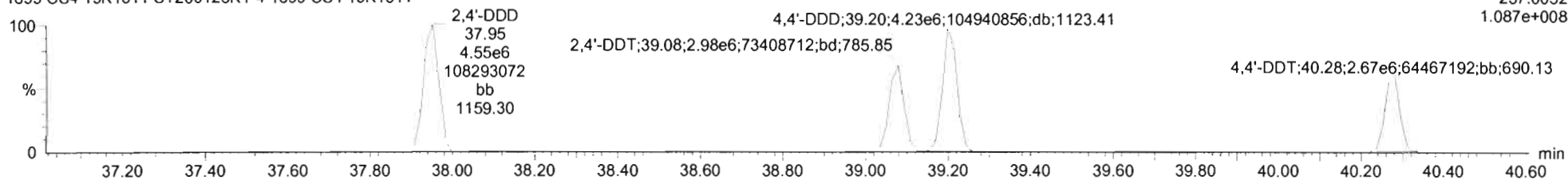
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

F4:Voltage SIR,EI+
235.0081
1.673e+008



200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

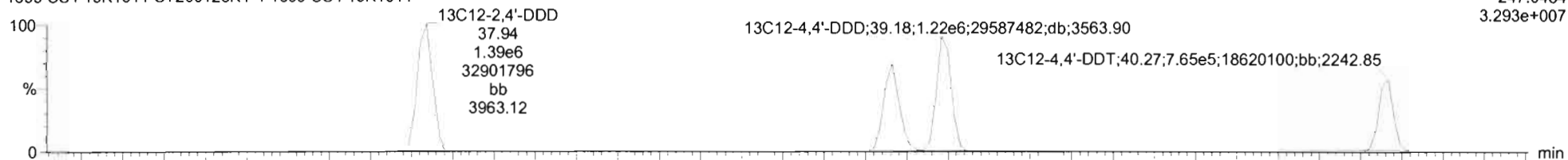
F4:Voltage SIR,EI+
237.0052
1.087e+008



DDD-DDT-isotopes

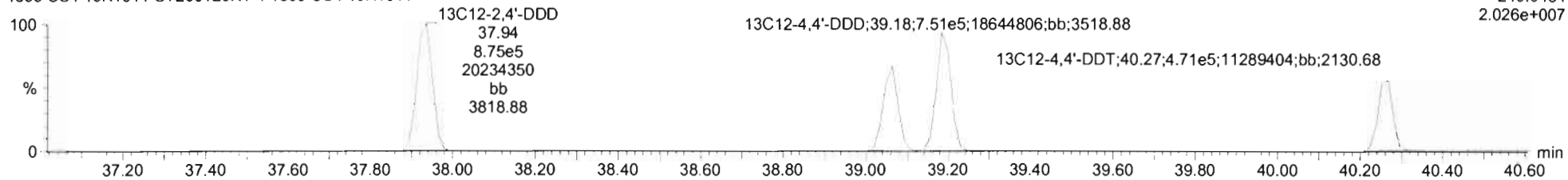
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

F4:Voltage SIR,EI+
247.0484
3.293e+007



200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

F4:Voltage SIR,EI+
249.0454
2.026e+007



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

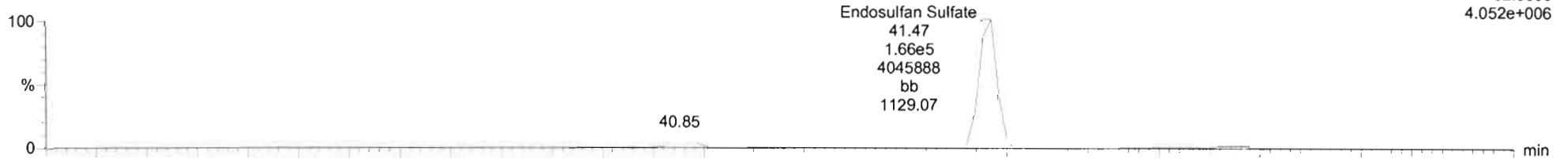
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_4, Date: 25-Jan-2020, Time: 15:34:14, ID: ST200125K1-4 1699 CS4 19K1311, Description: 1699 CS4 19K1311

Endosulfan Sulfate

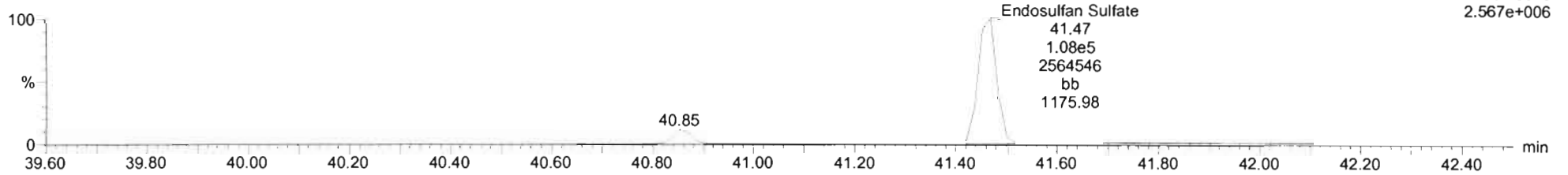
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

F5:Voltage SIR,EI+
262.8569
4.052e+006



200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

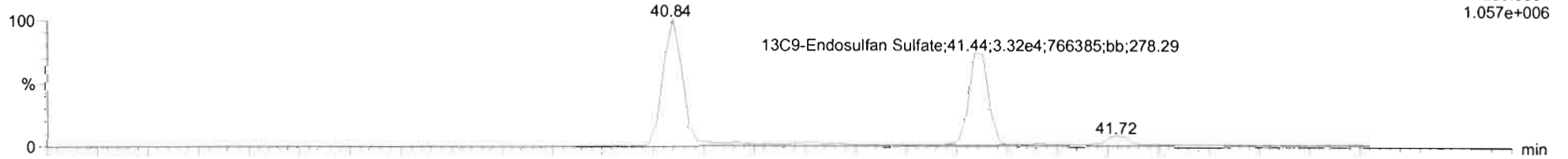
F5:Voltage SIR,EI+
264.8540
2.567e+006



13C9-Endosulfan Sulfate

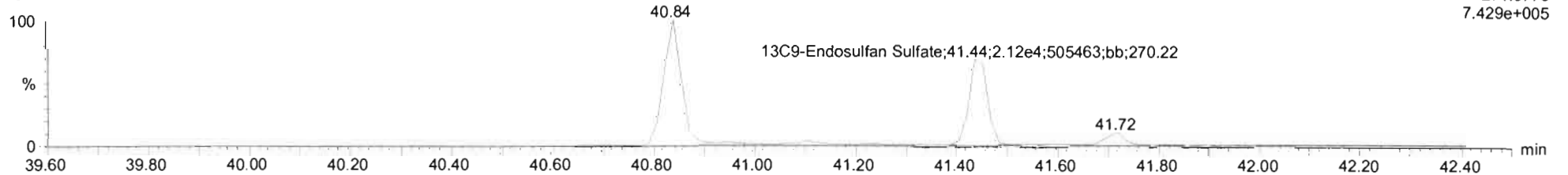
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

F5:Voltage SIR,EI+
269.8804
1.057e+006



200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

F5:Voltage SIR,EI+
271.8775
7.429e+005



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

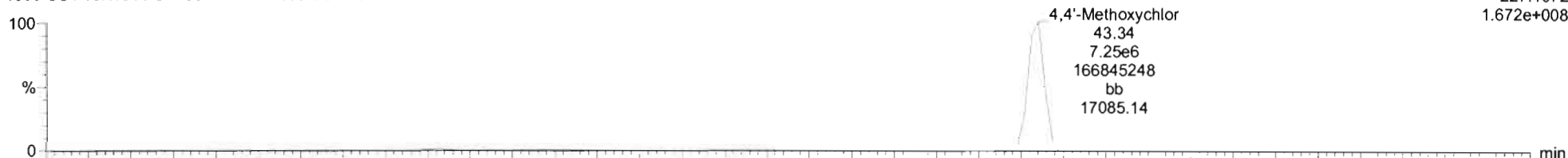
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_4, Date: 25-Jan-2020, Time: 15:34:14, ID: ST200125K1-4 1699 CS4 19K1311, Description: 1699 CS4 19K1311

4,4'-Methoxychlor

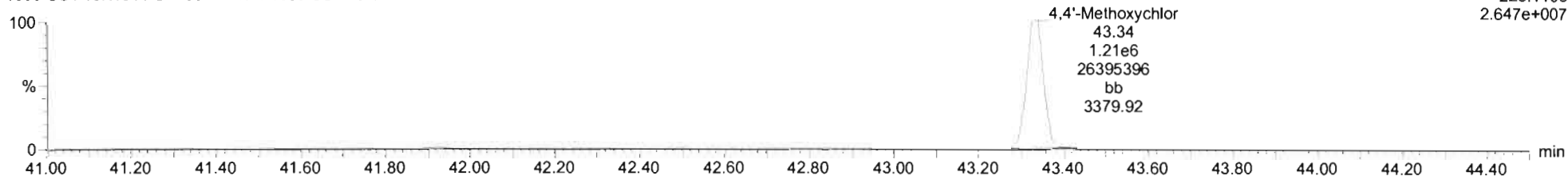
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

F5:Voltage SIR,EI+
227.1072
1.672e+008



200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

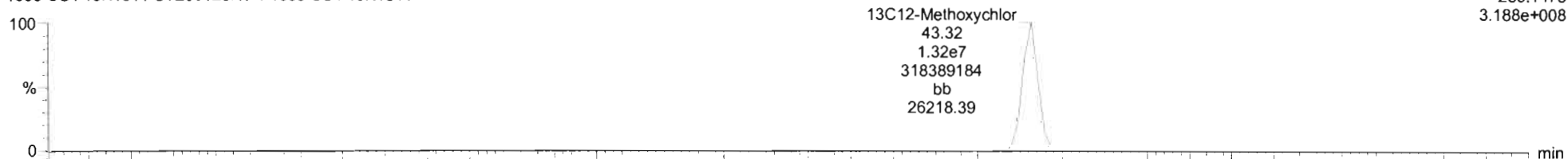
F5:Voltage SIR,EI+
228.1106
2.647e+007



13C12-Methoxychlor

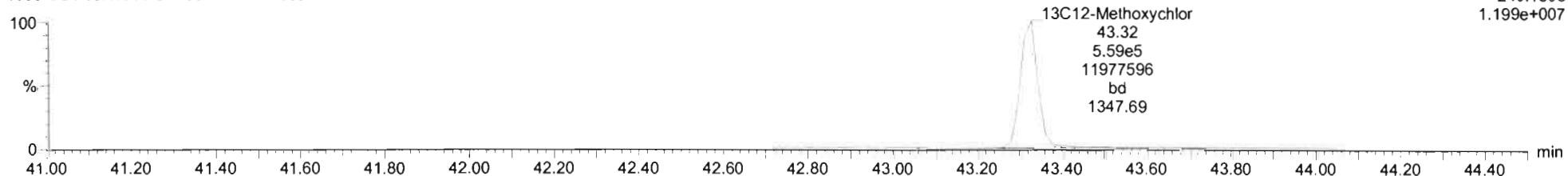
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

F5:Voltage SIR,EI+
239.1475
3.188e+008



200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

F5:Voltage SIR,EI+
240.1508
1.199e+007



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

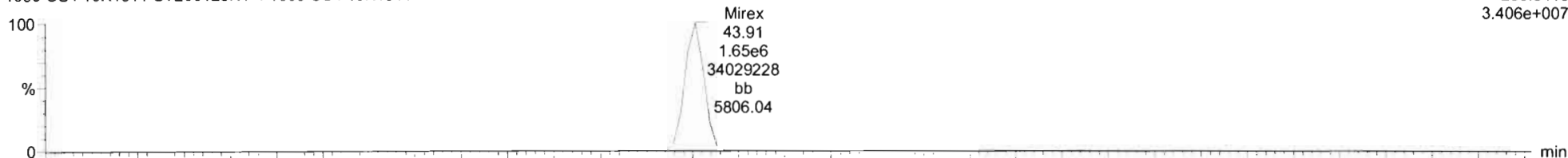
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

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Mirex

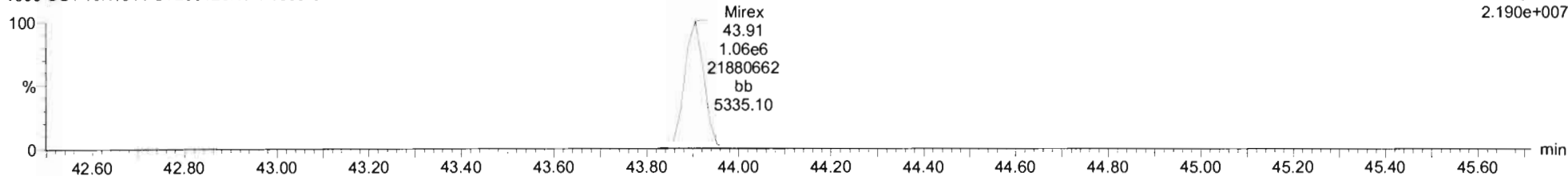
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

F5:Voltage SIR,EI+
236.8413
3.406e+007



200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

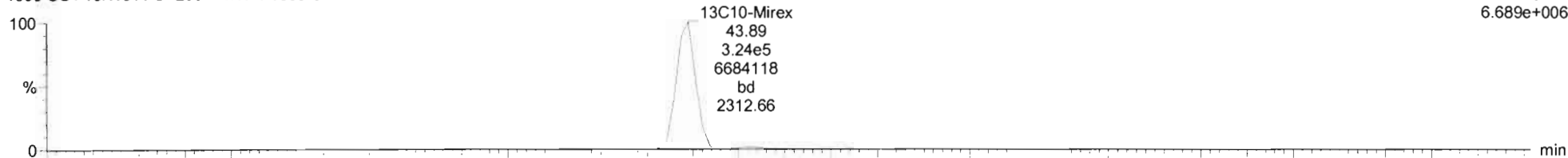
F5:Voltage SIR,EI+
238.8384
2.190e+007



13C10-Mirex

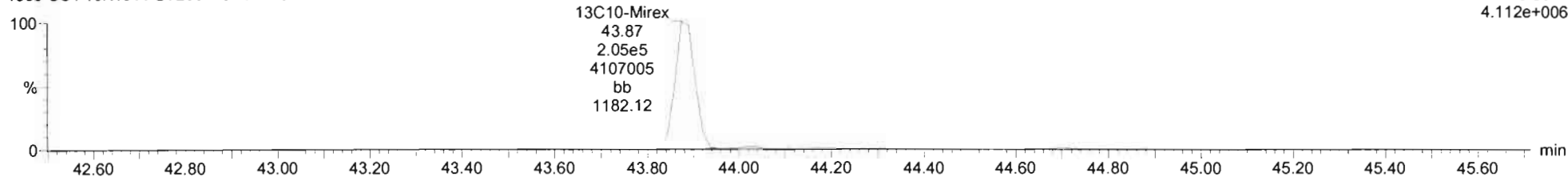
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

F5:Voltage SIR,EI+
241.8581
6.689e+006



200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

F5:Voltage SIR,EI+
243.8551
4.112e+006



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

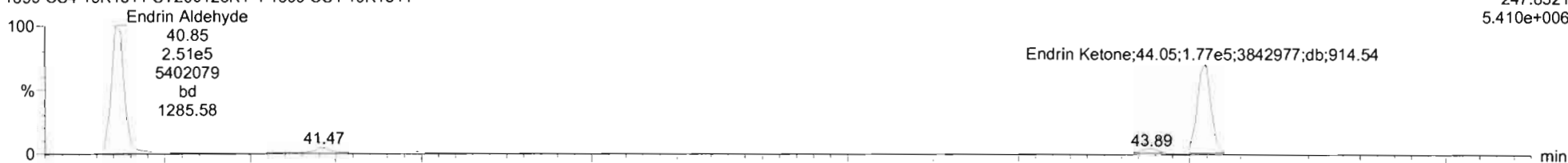
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_4, Date: 25-Jan-2020, Time: 15:34:14, ID: ST200125K1-4 1699 CS4 19K1311, Description: 1699 CS4 19K1311

EA-EK

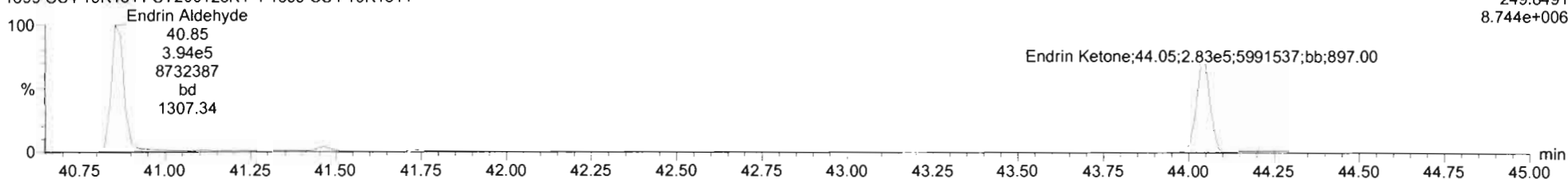
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

F5:Voltage SIR,EI+
247.8521
5.410e+006



200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

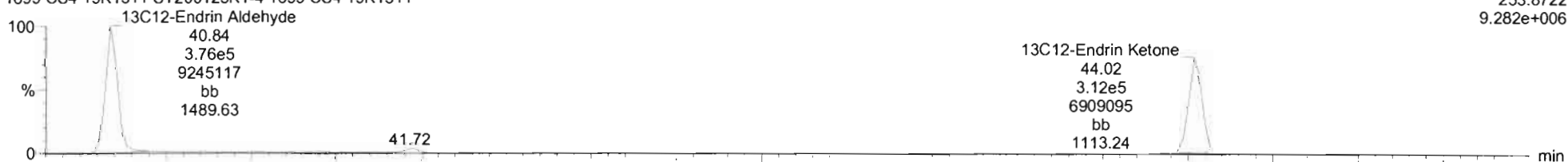
F5:Voltage SIR,EI+
249.8491
8.744e+006



EA-EK-isotopes

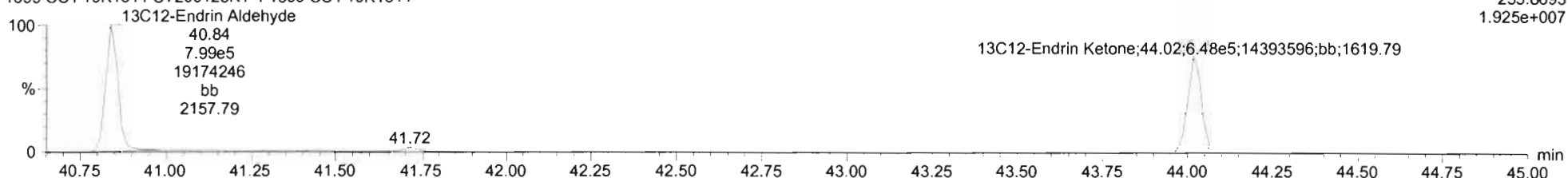
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

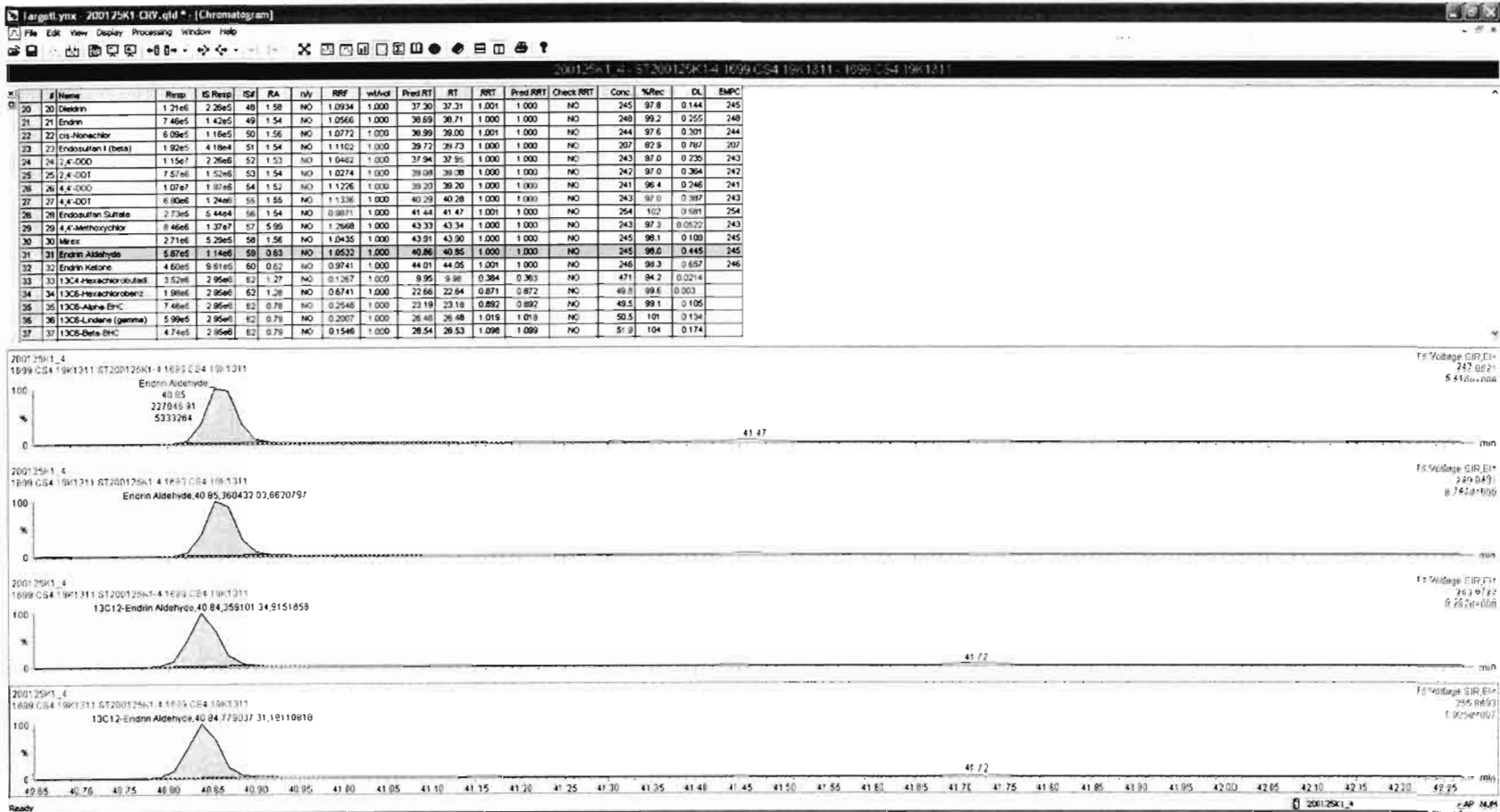
F5:Voltage SIR,EI+
253.8722
9.282e+006



200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

F5:Voltage SIR,EI+
255.8693
1.925e+007





Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

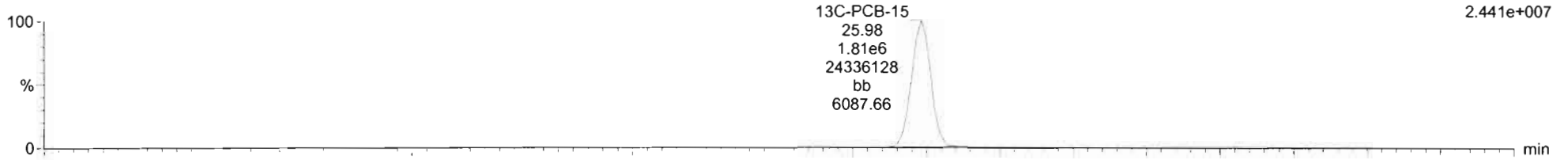
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_4, Date: 25-Jan-2020, Time: 15:34:14, ID: ST200125K1-4 1699 CS4 19K1311, Description: 1699 CS4 19K1311

13C-PCB-15

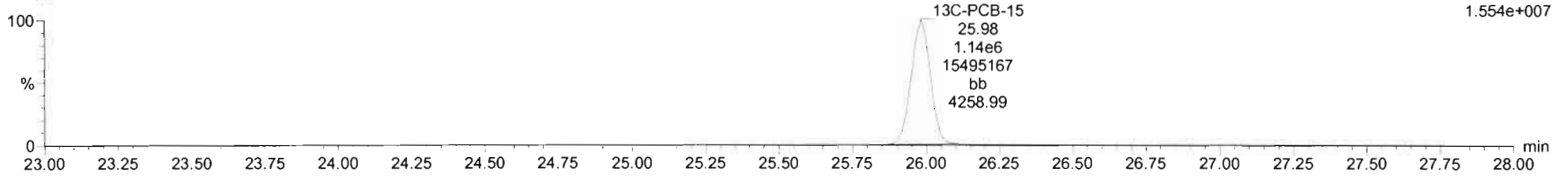
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

F2:Voltage SIR,EI+
234.0406
2.441e+007



200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

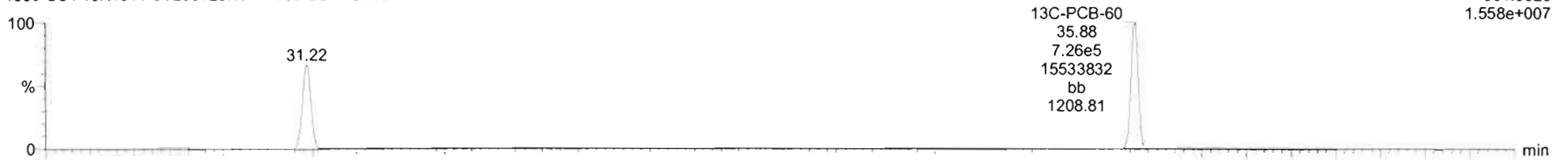
F2:Voltage SIR,EI+
236.0376
1.554e+007



13C-PCB-60

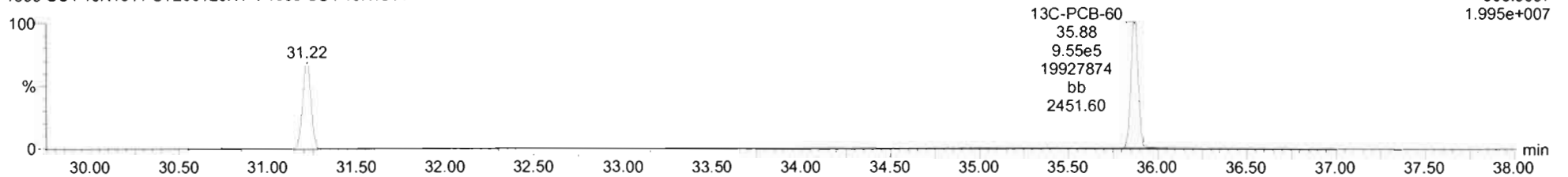
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

F3:Voltage SIR,EI+
301.9626
1.558e+007



200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

F3:Voltage SIR,EI+
303.9597
1.995e+007



Dataset: Untitled

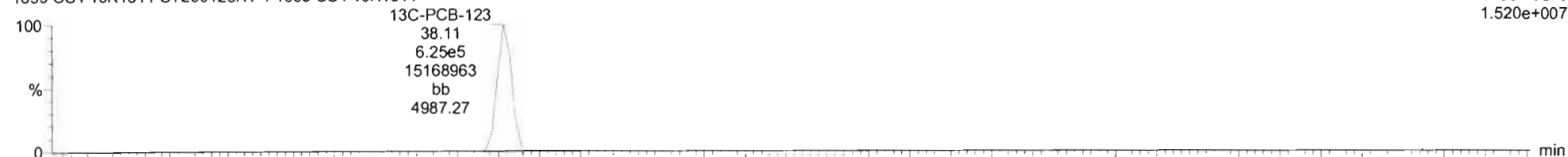
Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_4, Date: 25-Jan-2020, Time: 15:34:14, ID: ST200125K1-4 1699 CS4 19K1311, Description: 1699 CS4 19K1311

13C-PCB-123

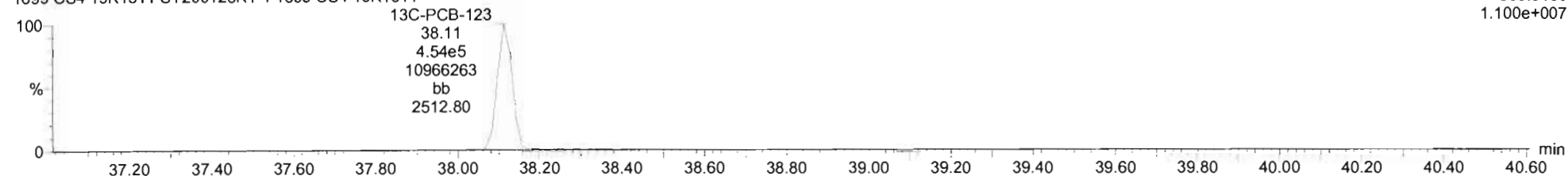
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

F4:Voltage SIR,EI+
337.9210
1.520e+007



200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

F4:Voltage SIR,EI+
339.9180
1.100e+007



13C-PARLAR 39

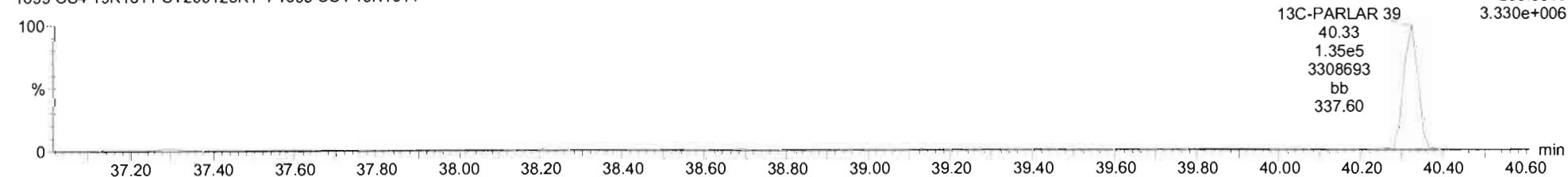
200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

F4:Voltage SIR,EI+
251.9648
2.652e+006



200125K1_4
1699 CS4 19K1311 ST200125K1-4 1699 CS4 19K1311

F4:Voltage SIR,EI+
253.9619
3.330e+006



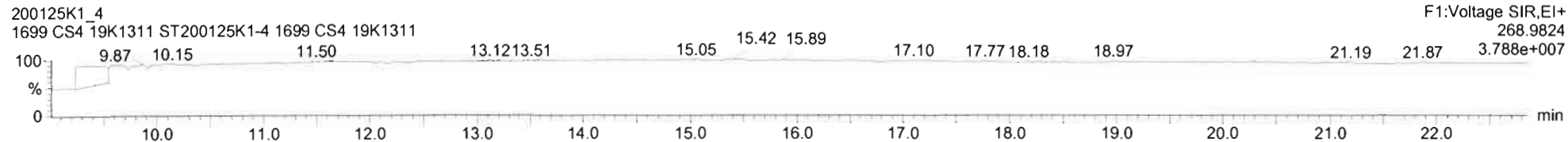
Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

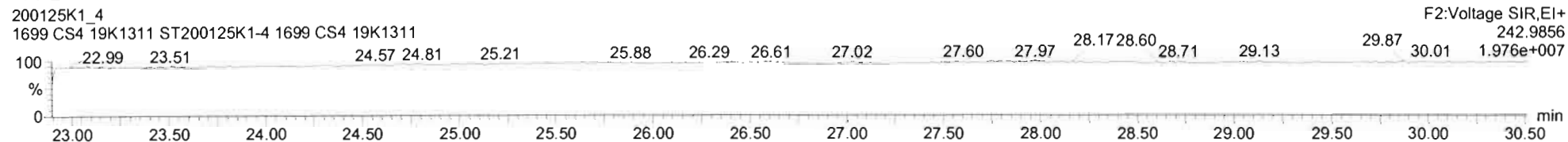
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_4, Date: 25-Jan-2020, Time: 15:34:14, ID: ST200125K1-4 1699 CS4 19K1311, Description: 1699 CS4 19K1311

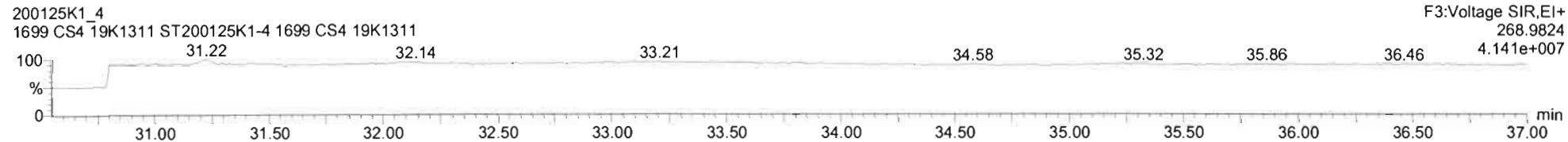
PFK1



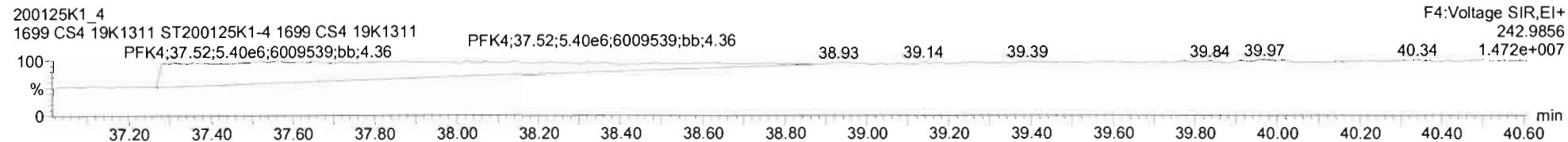
PFK2



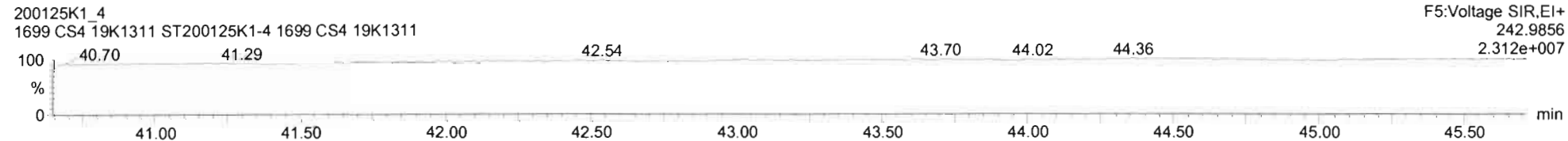
PFK3



PFK4



PFK5



Dataset: Untitled

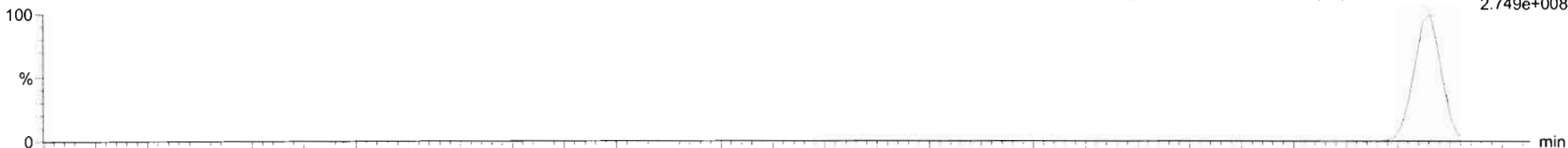
Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_5, Date: 25-Jan-2020, Time: 16:23:25, ID: ST200125K1-5 1699 CS5 19K1312, Description: 1699 CS5 19K1312

Hexachlorobenzene

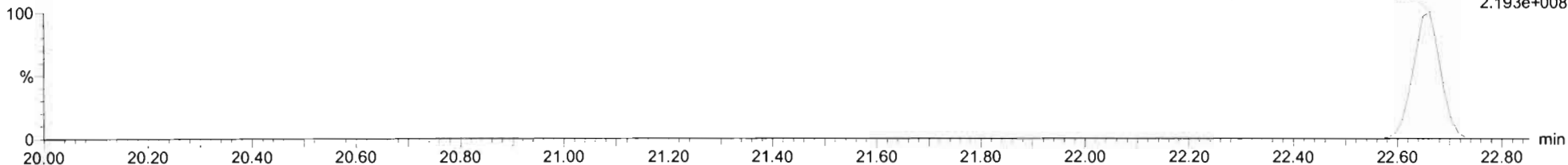
200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

Hexachlorobenzene;22.66;1.65e7;274428704;bb;612573.34
F1:Voltage SIR,EI+
283.8102
2.749e+008



200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

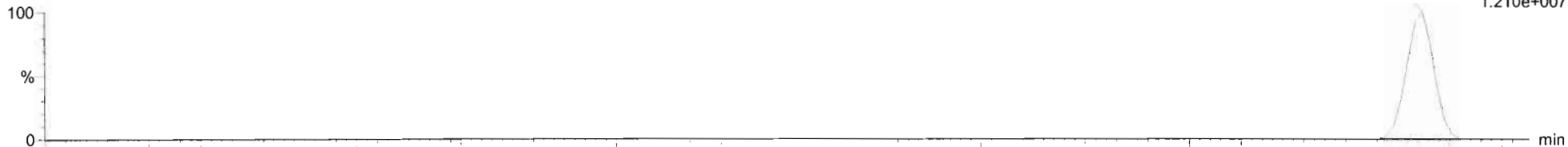
Hexachlorobenzene;22.66;1.33e7;218954352;bb;399116.50
F1:Voltage SIR,EI+
285.8072
2.193e+008



13C6-Hexachlorobenzene

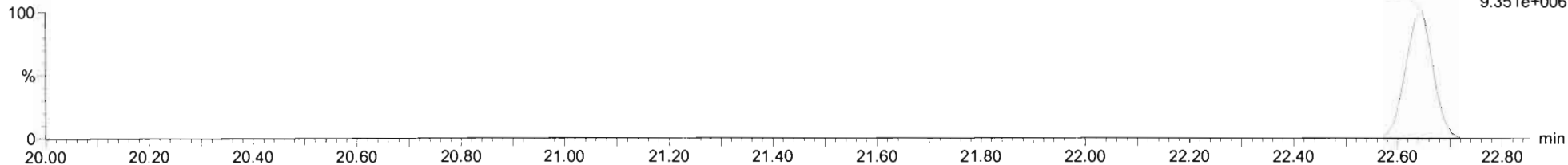
200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

13C6-Hexachlorobenzene;22.65;7.29e5;12074153;bb;28932.96
F1:Voltage SIR,EI+
289.8303
1.210e+007



200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

13C6-Hexachlorobenzene;22.65;5.64e5;9332988;bb;18429.91
F1:Voltage SIR,EI+
291.8273
9.351e+006



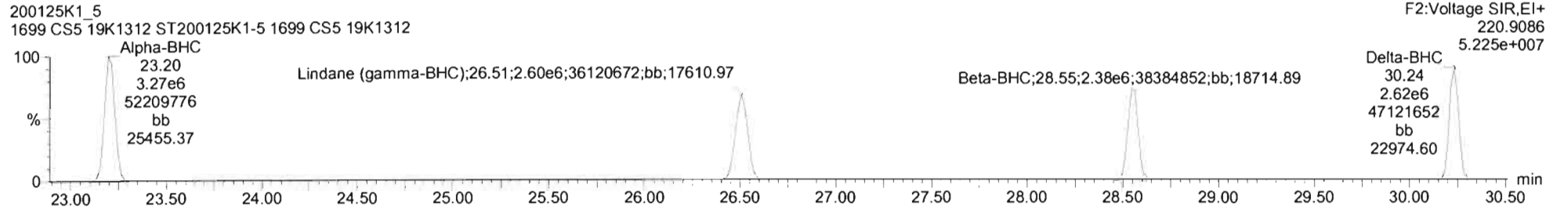
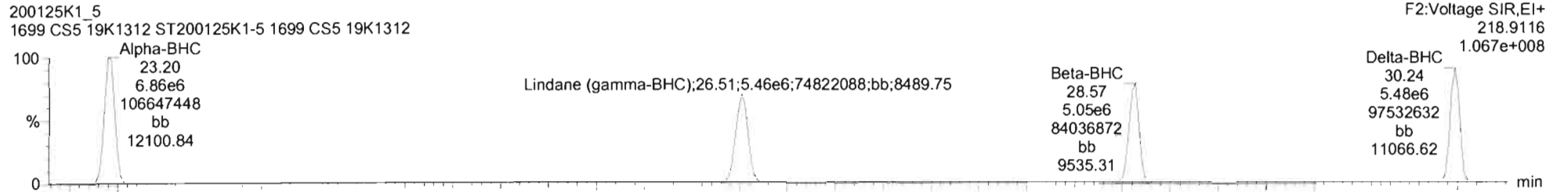
Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

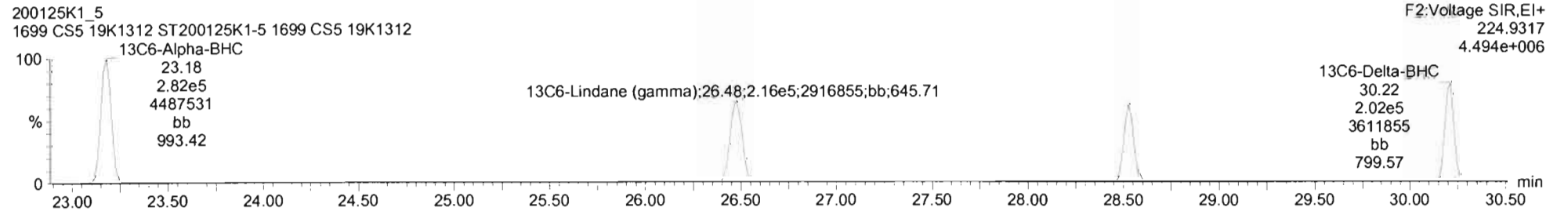
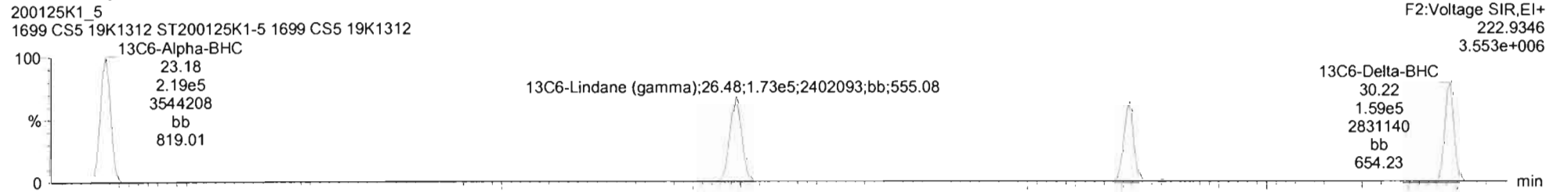
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_5, Date: 25-Jan-2020, Time: 16:23:25, ID: ST200125K1-5 1699 CS5 19K1312, Description: 1699 CS5 19K1312

BHC Totals



BHC-isotopes



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

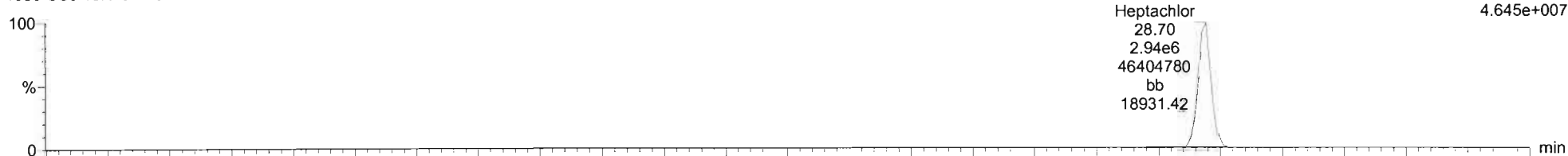
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_5, Date: 25-Jan-2020, Time: 16:23:25, ID: ST200125K1-5 1699 CS5 19K1312, Description: 1699 CS5 19K1312

Heptachlor

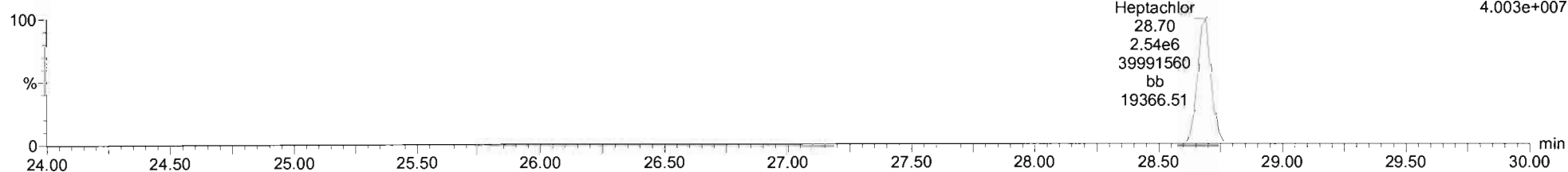
200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

F2:Voltage SIR,EI+
271.8102
4.645e+007



200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

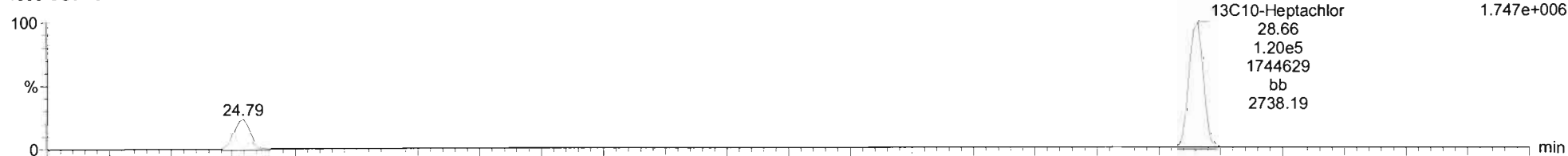
F2:Voltage SIR,EI+
273.8072
4.003e+007



13C10-Heptachlor

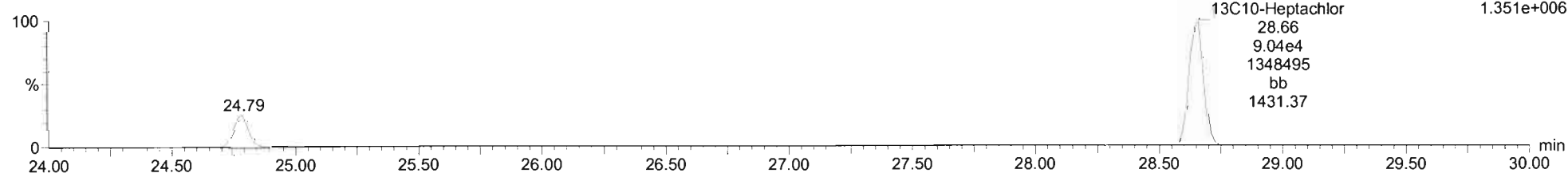
200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

F2:Voltage SIR,EI+
276.8269
1.747e+006



200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

F2:Voltage SIR,EI+
278.8240
1.351e+006



Dataset: Untitled

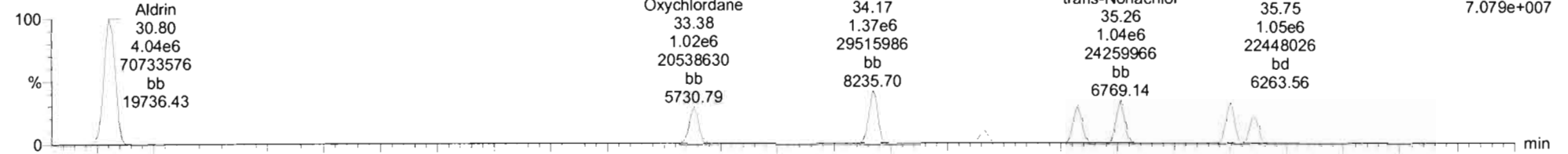
Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

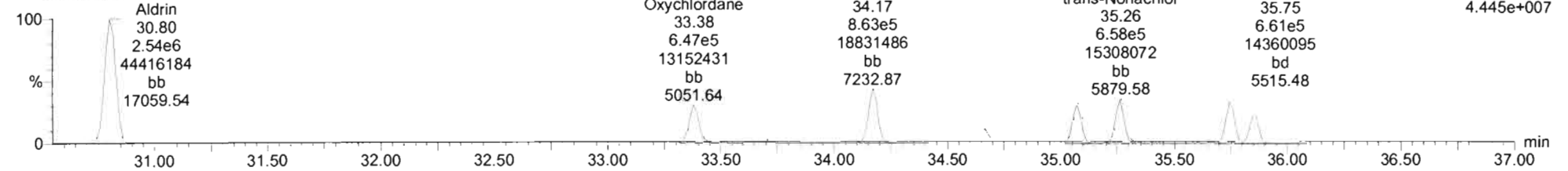
Name: 200125K1_5, Date: 25-Jan-2020, Time: 16:23:25, ID: ST200125K1-5 1699 CS5 19K1312, Description: 1699 CS5 19K1312

Aldrin-EI

200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

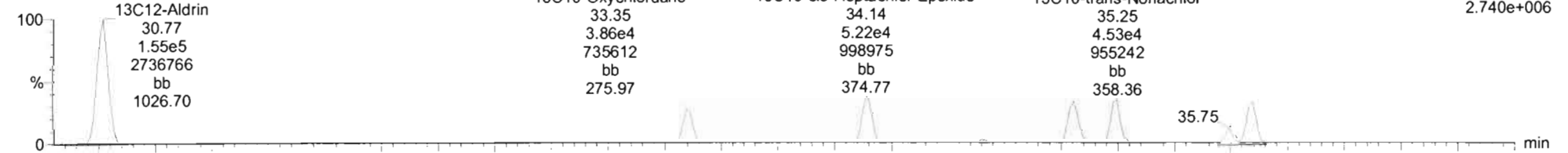


200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

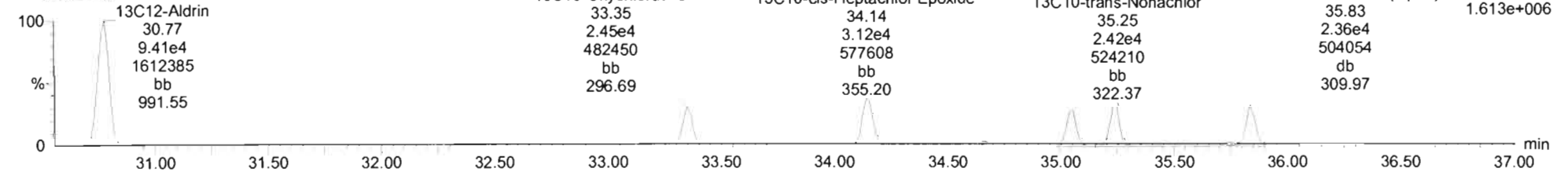


Aldrin-EI-isotopes

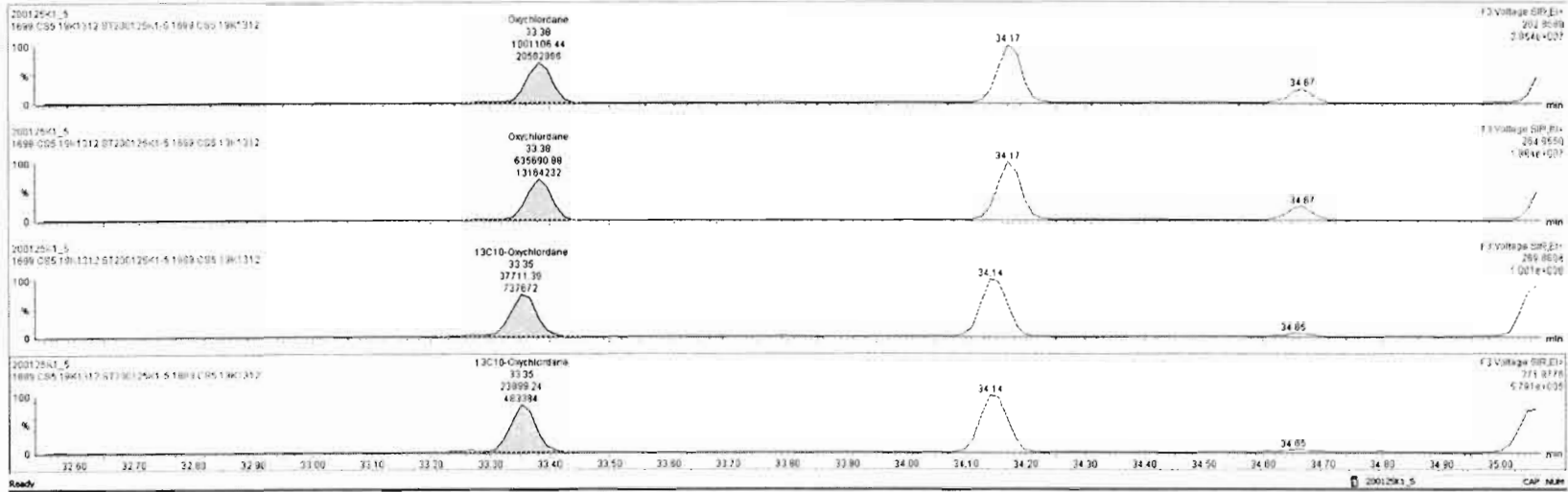
200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

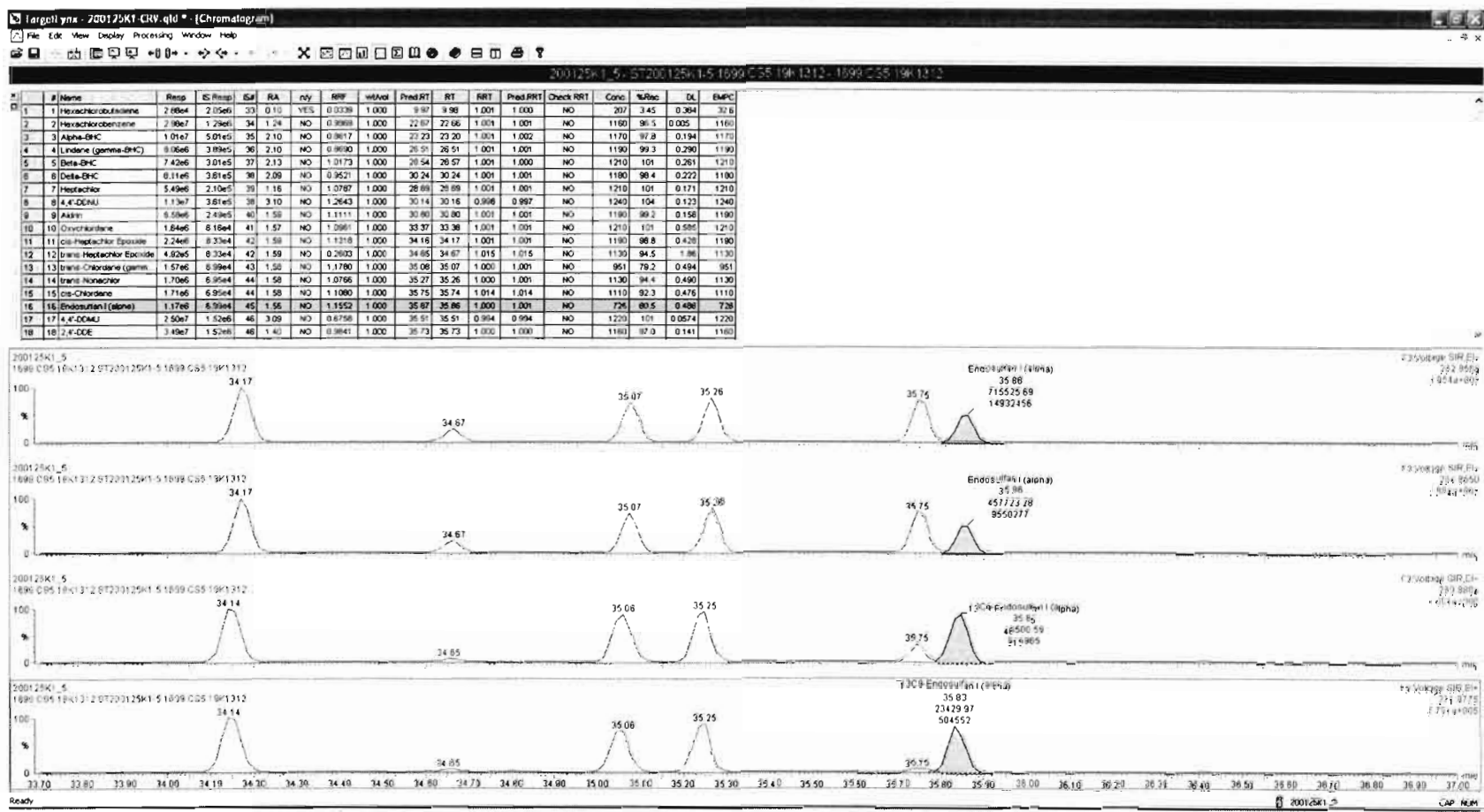


200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312



#	Name	Ring	IS Ring	CF	RA	July	RRF	wAve	Pred RT	RT	NRT	Pred NRT	Check NRT	Conv.	%Res	DL	EMPC
1	Hexachlorobenzene	2.88e4	2.05e6	35	0.10	YES	0.0338	1.000	9.97	8.98	1.000	1.000	NO	207	3.45	0.384	32.8
2	Hexachlorobenzene	2.98e7	1.29e5	34	1.24	NO	0.9989	1.000	22.97	22.66	1.000	1.000	NO	1180	98.5	0.005	1180
3	Alpha-DHC	1.07e7	5.07e5	35	2.18	NO	0.9617	1.000	23.23	23.26	1.000	1.000	NO	1170	97.8	0.194	1170
4	Gamma-DHC	8.05e6	3.09e5	36	2.10	NO	0.8990	1.000	26.51	26.51	1.000	1.000	NO	1190	99.3	0.290	1190
5	Beta-DHC	7.42e6	3.01e5	37	2.13	NO	1.0173	1.000	28.54	28.57	1.000	1.000	NO	1210	101	0.261	1210
6	Delta-DHC	8.11e6	3.61e5	38	2.09	NO	0.9521	1.000	30.24	30.24	1.000	1.000	NO	1180	98.4	0.222	1180
7	Heptachlor	5.43e6	2.16e5	39	1.16	NO	1.0787	1.000	28.69	28.69	1.000	1.000	NO	1210	101	0.171	1210
8	4,4'-DDMU	1.13e7	3.61e5	39	2.10	NO	1.2643	1.000	30.14	30.15	0.998	0.997	NO	1240	104	0.123	1240
9	Alrin	6.55e6	2.49e5	40	1.59	NO	1.1111	1.000	30.80	30.90	1.000	1.000	NO	1190	99.2	0.158	1190
10	Cyfluthrin	1.65e8	8.18e4	41	1.67	NO	1.0861	1.000	33.37	33.38	1.000	1.000	NO	1210	101	0.585	1210
11	trans-Heptachlor Epoxide	2.24e6	8.33e4	42	1.55	NO	1.1318	1.000	34.16	34.17	1.000	1.000	NO	1190	98.8	0.428	1190
12	trans-Heptachlor Epoxide	4.02e5	8.33e4	42	1.59	NO	0.2603	1.000	34.85	34.97	1.015	1.015	NO	1130	34.5	1.86	1130
13	trans-Chlordane (gem)	1.57e6	6.99e4	43	1.08	NO	1.1780	1.000	35.08	35.07	1.000	1.000	NO	991	79.2	0.494	991
14	trans-Nonachlor	1.72e6	6.95e4	44	1.09	NO	1.0766	1.000	35.27	35.26	1.000	1.000	NO	1130	94.4	0.490	1130
15	trans-Chlordane	1.71e6	8.95e4	44	1.56	NO	1.1090	1.000	35.75	35.74	1.014	1.014	NO	1110	92.3	0.476	1110
16	Endosulfan (alpha)	1.17e6	7.02e4	45	1.66	NO	1.1552	1.000	35.87	35.86	1.000	1.000	NO	724	80.3	0.484	724
17	4,4'-DDMU	2.50e7	1.42e6	46	3.06	NO	0.6758	1.000	35.51	35.51	0.994	0.994	NO	1220	101	0.0574	1220
18	2,4'-DDC	3.49e7	1.52e6	46	1.40	NO	0.9641	1.000	35.73	35.73	1.000	1.000	NO	1180	87.6	0.141	1180





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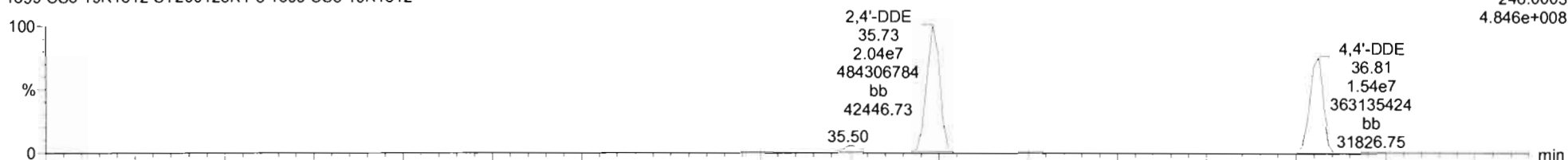
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DDMU-DDE

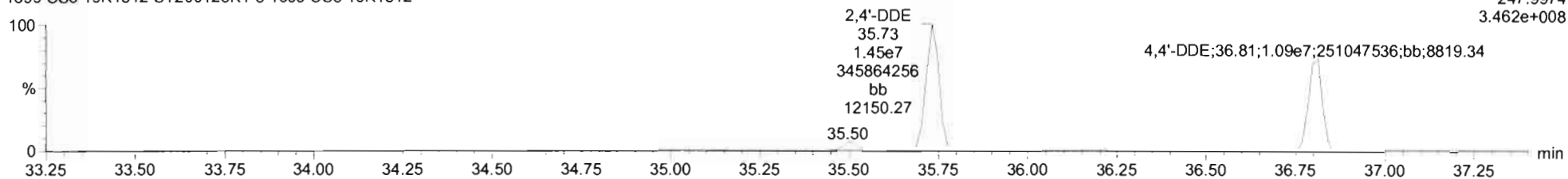
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F3:Voltage SIR,EI+
246.0003
4.846e+008



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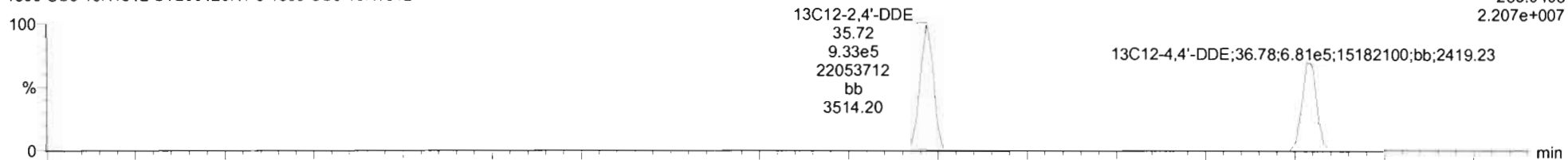
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DDE-isotopes

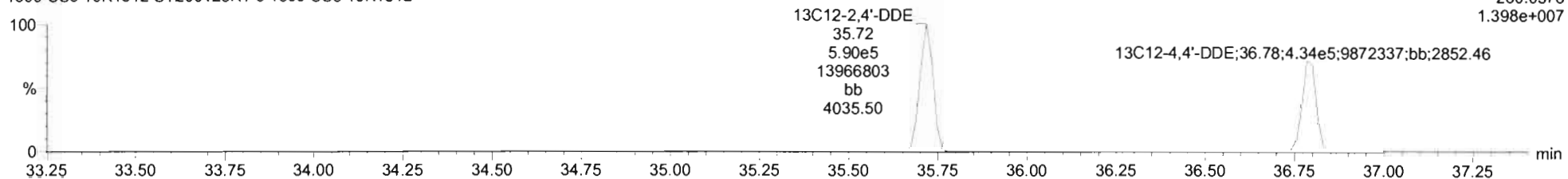
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F3:Voltage SIR,EI+
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2.207e+007



200125K1_5
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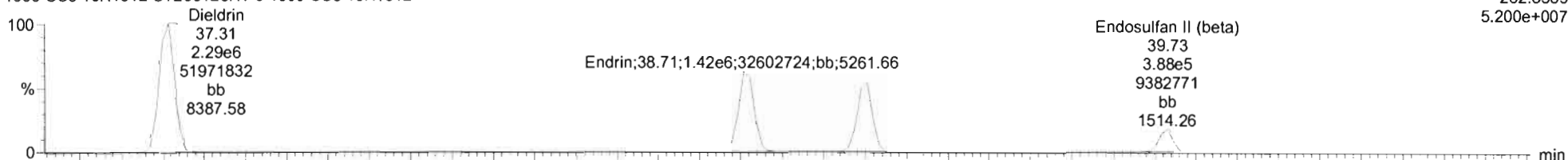
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Dieldrin-EII

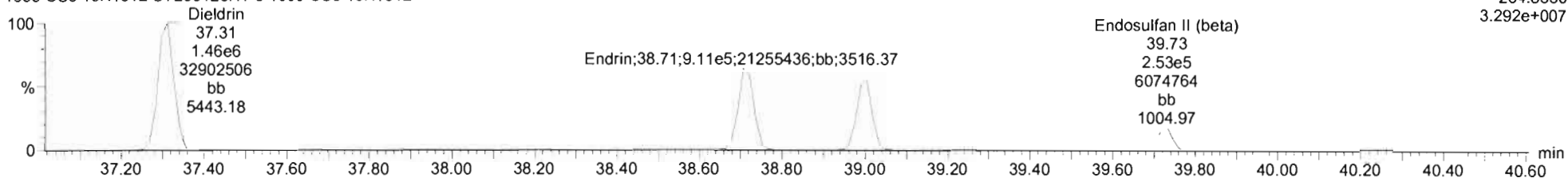
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F4:Voltage SIR,EI+
262.8569
5.200e+007



200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

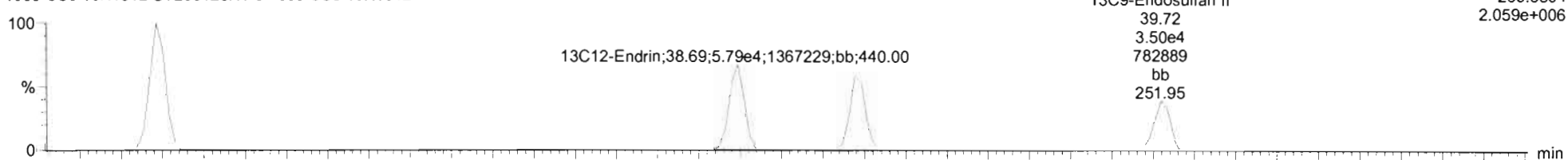
F4:Voltage SIR,EI+
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3.292e+007



Dieldrin-EII-isotopes

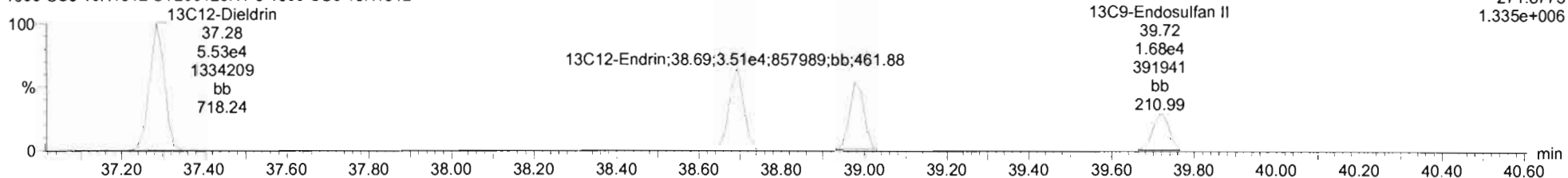
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F4:Voltage SIR,EI+
269.8804
2.059e+006

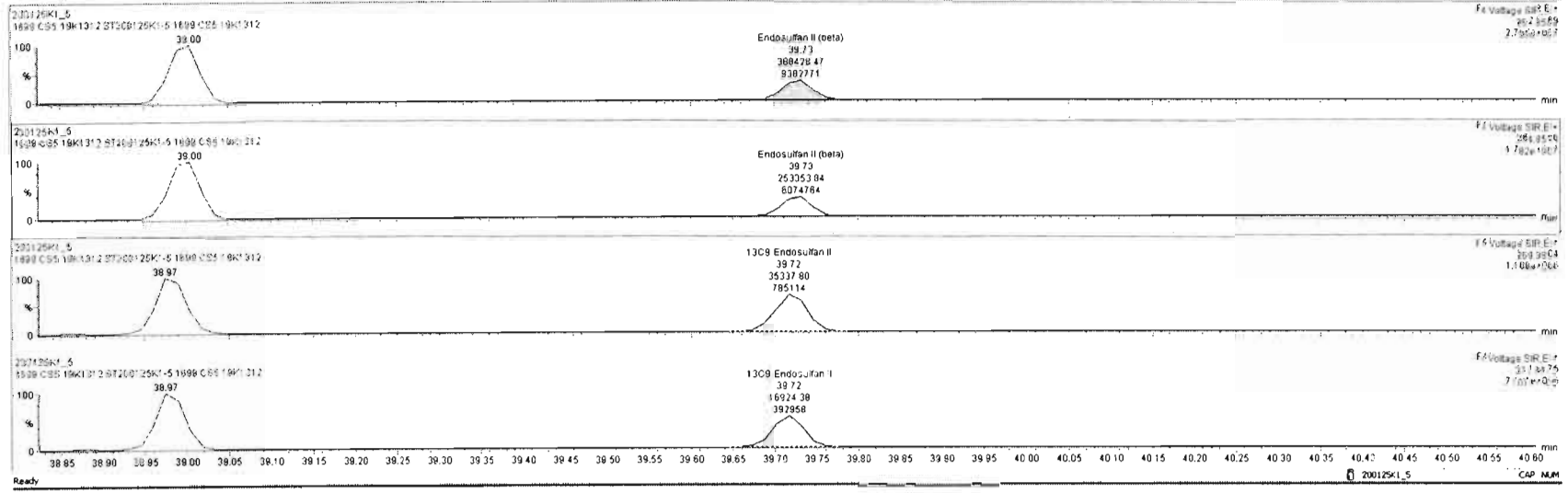


200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

F4:Voltage SIR,EI+
271.8775
1.335e+006



#	Name	Resp	IS Resp	ISF	RA	IRF	RRF	wt/dwt	Prod.RT	RT	RRT	Prod.RRT	Check.RRT	Conc	NRec	DL	EMPC
20	Declrin	3.75e6	1.43e5	48	1.57	NO	1.0934	1.000	37.30	37.31	1.001	1.000	NO	1.200	99.9	0.418	1.200
21	Endrin	2.34e6	9.30e4	49	1.56	NO	1.0565	1.000	38.69	38.71	1.000	1.000	NO	1.190	99.0	0.659	1.190
22	cis-Nonachlor	1.89e6	7.98e4	50	1.55	NO	1.0772	1.000	39.99	39.00	1.001	1.000	NO	1.140	95.0	0.766	1.140
23	Endosulfan II (beta)	6.42e5	5.73e4	51	1.53	NO	1.1102	1.000	38.72	38.73	1.000	1.000	NO	563	46.1	1.19	563
24	2,4'-DDO	3.82e7	1.53e6	52	1.53	NO	1.0482	1.000	37.84	37.95	1.000	1.000	NO	1.190	99.0	0.276	1.190
25	2,4'-DDT	7.65e7	1.10e6	53	1.53	NO	1.0274	1.000	38.06	38.06	1.000	1.000	NO	1.190	97.9	0.413	1.190
26	4,4'-DDO	3.71e7	1.42e6	54	1.54	NO	1.1226	1.000	39.20	39.20	1.000	1.000	NO	1.170	97.2	0.292	1.170
27	4,4'-DDT	2.46e7	9.05e5	55	1.53	NO	1.1306	1.000	40.29	40.28	1.000	1.000	NO	1.200	99.8	0.441	1.200
28	Endosulfan Sulfate	8.97e5	3.96e4	56	1.55	NO	0.9671	1.000	41.45	41.47	1.000	1.000	NO	1.150	95.7	1.44	1.150
29	4-M-Methoxychlor	3.01e7	1.00e7	57	6.01	NO	1.2668	1.000	43.33	43.34	1.000	1.000	NO	1.190	98.6	0.0937	1.190
30	Mirex	9.65e6	3.90e5	58	1.56	NO	1.0435	1.000	43.91	43.90	1.000	1.000	NO	1.190	98.9	0.388	1.190
31	Endrin Aldehyde	2.07e6	8.04e5	59	0.82	NO	1.0532	1.000	40.86	40.85	1.000	1.000	NO	1.220	102	1.18	1.220
32	Endrin Ketone	1.51e6	6.43e5	60	0.83	NO	0.9741	1.000	44.01	44.05	1.001	1.000	NO	1.210	101	1.75	1.210
33	13C4-Hexachlorobutadi...	2.05e6	1.92e6	62	1.27	NO	0.1267	1.000	9.95	9.97	0.984	0.993	NO	422	64.4	0.0310	
34	13C4-Hexachlorobenz...	1.79e6	1.92e6	62	1.29	NO	0.6741	1.000	27.66	27.65	0.972	0.972	NO	50.0	100	0.036	
35	13C6-Alpha-BHC	5.01e5	1.92e6	62	0.78	NO	0.2648	1.000	23.19	23.18	0.992	0.992	NO	51.3	103	0.159	
36	13C6-Lindane (gamma)	3.89e5	1.92e6	62	0.80	NO	0.2007	1.000	26.46	26.48	1.019	1.018	NO	50.6	101	0.202	
37	13C6-Beta-BHC	3.01e5	1.92e6	62	0.79	NO	0.1546	1.000	28.54	28.53	1.008	1.009	NO	50.8	102	0.262	



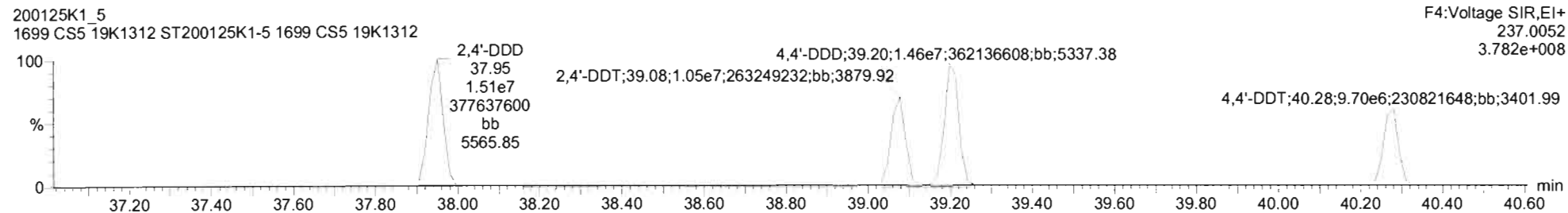
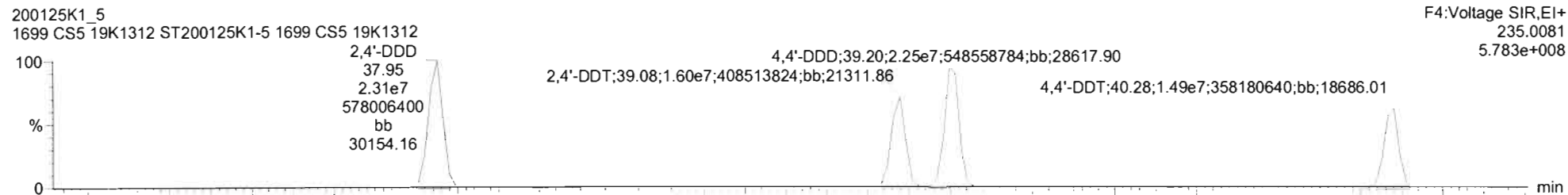
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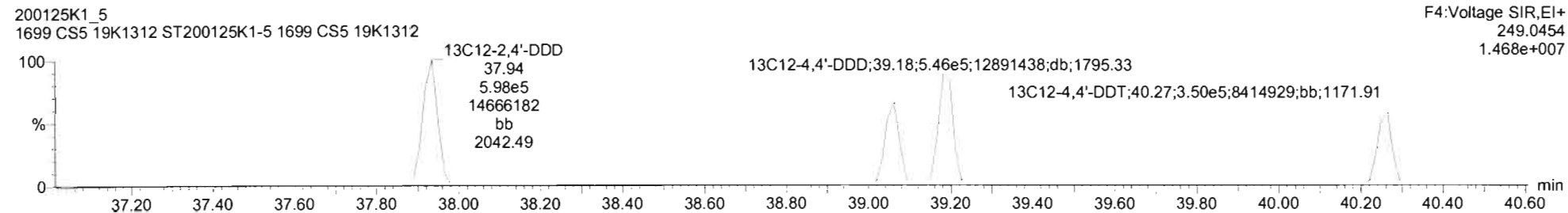
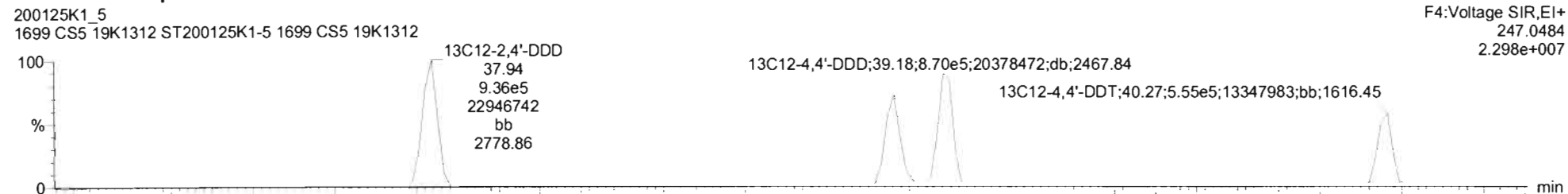
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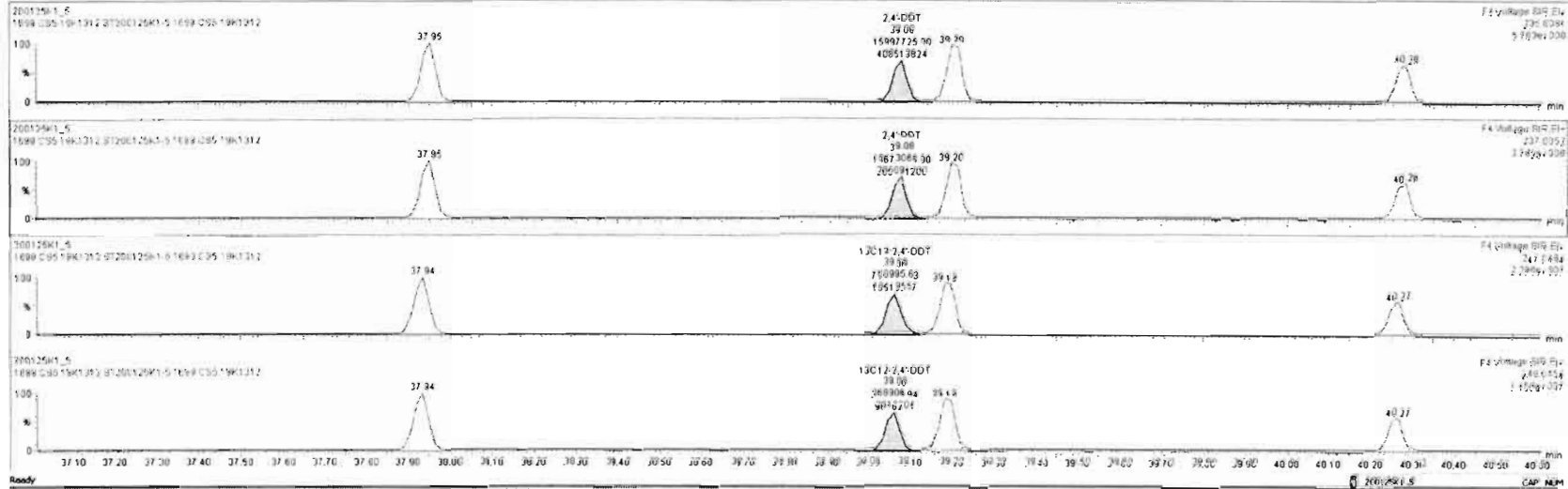
DDD-DDT



DDD-DDT-isotopes

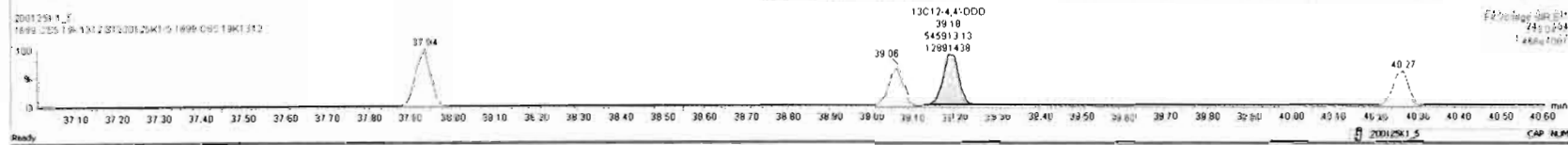
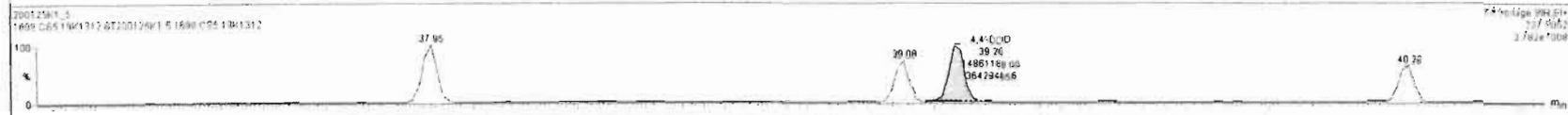


#	Name	Resp	IS Resp	IS#	RA	n/y	RR#	wtAval	Pres RT	RT	RR1	Pres RR1	Check RR1	Conc.	%Rec	DL	B4PC
20	Declin	3.75e6	1.43e5	48	1.57	NO	1.0934	1.000	37.30	37.31	1.001	1.000	NO	1.200	99.9	0.418	1.200
21	Enon	7.34e5	9.30e4	49	1.58	NO	1.0756	1.000	38.65	38.71	1.000	1.000	NO	1.190	99.0	0.659	1.190
22	2,4-Dinitrophenol	1.39e6	7.98e4	50	1.55	NO	1.0772	1.000	38.99	39.00	1.001	1.000	NO	1.140	95.0	0.705	1.140
23	Enosulfen I (beta)	6.43e5	5.23e4	51	1.53	NO	1.1102	1.000	39.72	39.73	1.000	1.000	NO	1.190	98.1	1.119	1.190
24	2,4-DOD	3.82e7	1.53e6	52	1.53	NO	1.0482	1.000	37.54	37.95	1.000	1.000	NO	1.190	99.0	0.276	1.190
25	2,4-DOT	2.87e7	1.10e6	53	1.50	NO	1.0290	1.000	39.08	39.08	1.000	1.000	NO	1.180	98.5	0.415	1.180
26	4,4'-DOD	3.71e7	1.42e6	54	1.54	NO	1.1226	1.000	39.20	39.20	1.000	1.000	NO	1.170	97.2	0.292	1.170
27	4,4'-DOT	2.46e7	9.05e5	55	1.53	NO	1.1326	1.000	40.20	40.20	1.000	1.000	NO	1.200	99.8	0.441	1.200
28	Enosulfen Sulfate	8.97e5	3.95e4	56	1.55	NO	0.9871	1.000	41.45	41.47	1.000	1.000	NO	1.150	95.7	1.44	1.150
29	4,4'-Methoxychlor	3.01e7	1.00e7	57	6.01	NO	1.2668	1.000	43.33	43.34	1.000	1.000	NO	1.180	98.6	0.0037	1.180
30	Mex	0.95e6	3.90e5	58	1.58	NO	1.0435	1.000	43.91	43.90	1.000	1.000	NO	1.190	98.9	0.388	1.190
31	Enon Aldehyde	2.07e6	8.04e5	59	0.92	NO	1.0532	1.000	40.86	40.85	1.000	1.000	NO	1.220	102	1.18	1.220
32	Enon Ketone	1.51e6	6.43e5	60	0.83	NO	0.9741	1.000	44.01	44.05	1.001	1.000	NO	1.210	101	1.75	1.210
33	1,3,5-Hexachlorocyclohexadiene	2.05e6	1.92e6	62	1.27	NO	0.1267	1.000	3.96	3.97	0.394	0.393	NO	4.22	94.4	0.0310	
34	1,3,5-Hexachlorocyclohexadiene	1.29e6	1.92e6	62	1.29	NO	0.8741	1.000	22.86	22.85	0.872	0.872	NO	90.0	100	0.006	
35	1,3,5-Trichlorobenzene	5.01e5	1.92e6	62	0.78	NO	0.2546	1.000	23.19	23.18	0.892	0.892	NO	51.3	103	0.158	
36	1,3,5-Trichlorobenzene (gamma)	3.89e5	1.92e6	62	0.80	NO	0.2007	1.000	26.46	26.46	1.019	1.018	NO	50.8	101	0.202	
37	1,3,5-Trichlorobenzene	3.01e5	1.92e6	62	0.79	NO	0.1546	1.000	28.54	28.53	1.098	1.099	NO	50.9	102	0.262	



200125K1.5 - ST20.125K1.5 1699.CS5 19K1312 - 1699.CS5 19K1312

#	I	Name	Resp	IS Resp	ISF	RA	inj	RT	intVol	AreaRT	RT	RT	Prod RT	Check RT	Conc.	Nutiso	DL	EMPC
20	20	Dioxin	3.75e6	1.43e5	48	1.57	NO	1.0234	1.000	37.30	37.31	1.001	1.000	NO	1200	99.9	0.419	1200
21	21	Endrin	2.34e6	9.30e4	40	1.56	NO	1.0568	1.000	39.09	39.71	1.000	1.000	NO	1190	99.0	0.659	1190
22	22	OS-Honachlor	1.91e6	7.89e4	50	1.51	NO	1.0772	1.000	39.99	39.00	1.001	1.000	NO	1140	95.0	0.766	1140
23	23	Endosulfan I (beta)	6.42e5	5.23e4	51	1.53	NO	1.1102	1.000	39.72	39.73	1.000	1.000	NO	553	46.1	1.19	553
24	24	2,4'-DDD	3.85e7	1.53e6	52	1.53	NO	1.0482	1.000	37.94	37.95	1.000	1.000	NO	1190	99.0	0.278	1190
25	25	2,4'-DDT	3.67e7	1.10e6	53	1.50	NO	1.0290	1.000	39.08	39.08	1.000	1.000	NO	1180	98.5	0.413	1180
26	26	4,4'-DDD	3.73e7	1.42e6	54	1.51	NO	1.1242	1.000	39.20	39.20	1.000	1.000	NO	1170	97.7	0.282	1170
27	27	4,4'-DDT	2.46e7	9.05e5	55	1.53	NO	1.1338	1.000	40.29	40.28	1.000	1.000	NO	1200	99.8	0.441	1200
28	28	Endosulfan Sulfate	8.97e5	3.96e4	56	1.55	NO	0.9871	1.000	41.45	41.47	1.000	1.000	NO	1150	95.7	1.44	1150
29	29	4,4'-Methoxychlor	3.01e7	1.00e7	57	0.01	NO	1.2660	1.000	43.33	43.34	1.000	1.000	NO	1190	99.6	0.0937	1190
30	30	Mirex	9.65e6	2.90e5	58	1.56	NO	1.0435	1.000	43.91	43.90	1.000	1.000	NO	1190	99.9	0.386	1190
31	31	Endrin Aldehyde	2.07e6	9.04e5	59	0.62	NO	1.0532	1.000	40.88	40.85	1.000	1.000	NO	1220	102	1.18	1220
32	32	Endrin Ketone	1.51e6	8.43e5	60	0.63	NO	0.9741	1.000	44.01	44.05	1.001	1.000	NO	1210	101	1.75	1210
33	33	13C4-Hexachlorobutadi	2.05e6	1.92e6	62	1.27	NO	0.1267	1.000	9.29	9.67	0.384	0.383	NO	422	84.4	0.0310	
34	34	13C6-Hexachlorobenz	1.21e6	1.92e6	62	1.28	NO	0.6741	1.000	27.66	27.65	0.872	0.872	NO	50.0	100	0.006	
35	35	13C8-Alpha-BHC	5.01e5	1.92e6	62	0.78	NO	0.2548	1.000	23.19	23.18	0.892	0.892	NO	51.3	103	0.158	
36	36	13C8-Lindane (gamma)	3.89e5	1.92e6	62	0.80	NO	0.2007	1.000	26.48	26.48	1.019	1.019	NO	50.6	101	0.202	
37	37	13C6-Beta-BHC	3.01e5	1.92e6	62	0.79	NO	0.1548	1.000	28.54	28.53	1.099	1.099	NO	50.9	102	0.282	



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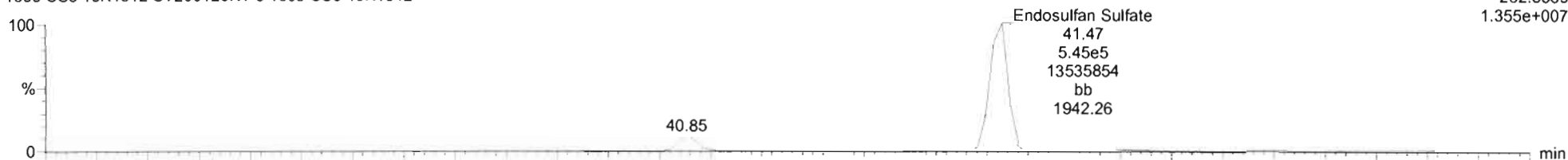
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Endosulfan Sulfate

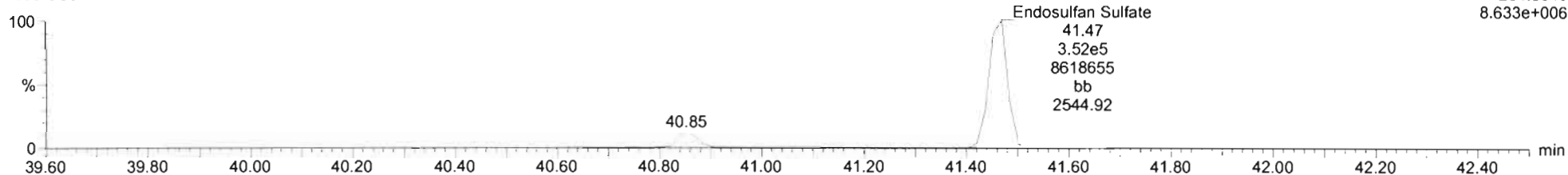
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1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

F5:Voltage SIR,EI+
262.8569
1.355e+007



200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

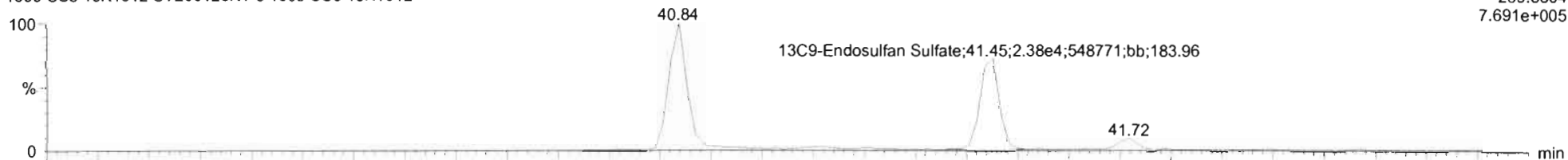
F5:Voltage SIR,EI+
264.8540
8.633e+006



13C9-Endosulfan Sulfate

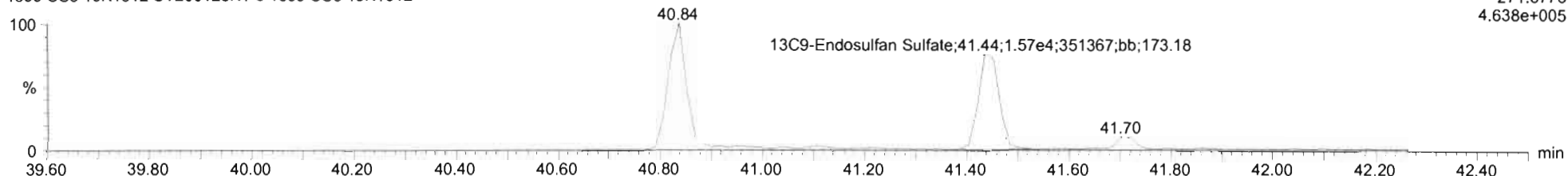
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1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

F5:Voltage SIR,EI+
269.8804
7.691e+005



200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

F5:Voltage SIR,EI+
271.8775
4.638e+005



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_5, Date: 25-Jan-2020, Time: 16:23:25, ID: ST200125K1-5 1699 CS5 19K1312, Description: 1699 CS5 19K1312

4,4'-Methoxychlor

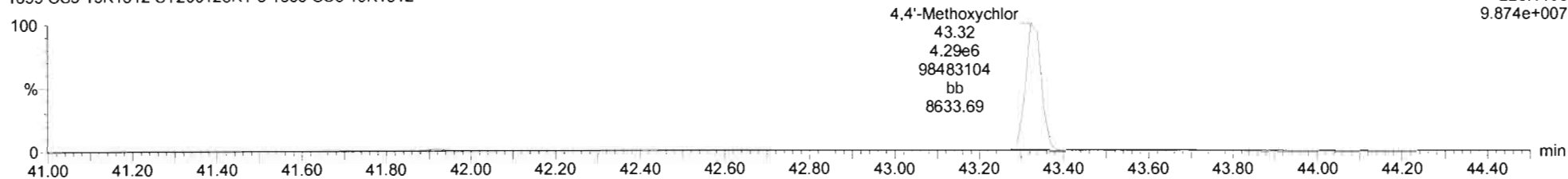
200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

F5:Voltage SIR,EI+
227.1072
5.902e+008



200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

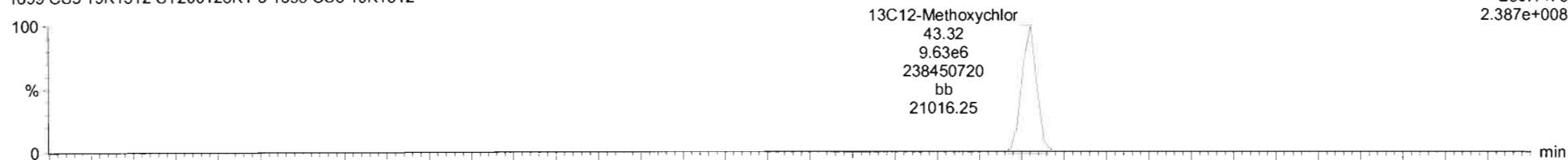
F5:Voltage SIR,EI+
228.1106
9.874e+007



13C12-Methoxychlor

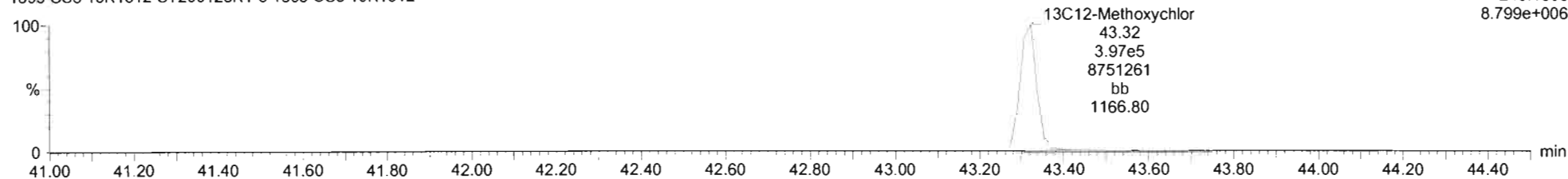
200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

F5:Voltage SIR,EI+
239.1475
2.387e+008



200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

F5:Voltage SIR,EI+
240.1508
8.799e+006



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

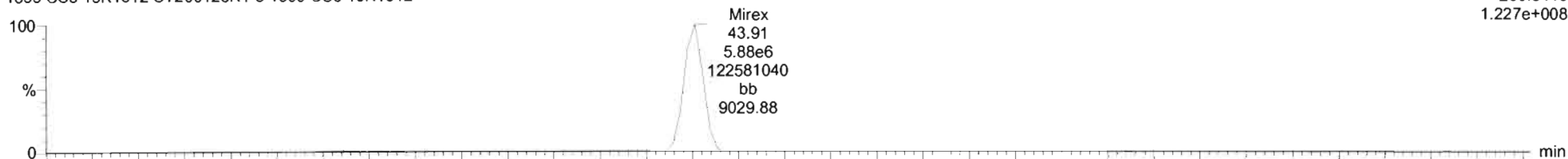
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_5, Date: 25-Jan-2020, Time: 16:23:25, ID: ST200125K1-5 1699 CS5 19K1312, Description: 1699 CS5 19K1312

Mirex

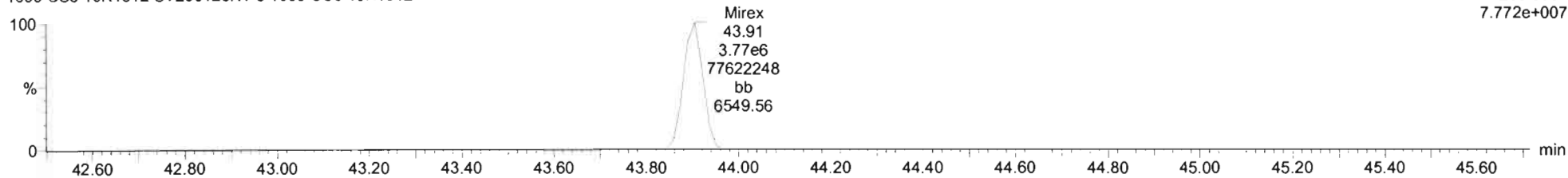
200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

F5:Voltage SIR,EI+
236.8413
1.227e+008



200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

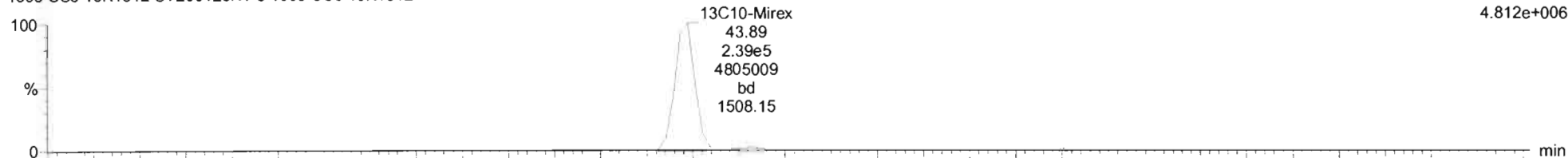
F5:Voltage SIR,EI+
238.8384
7.772e+007



13C10-Mirex

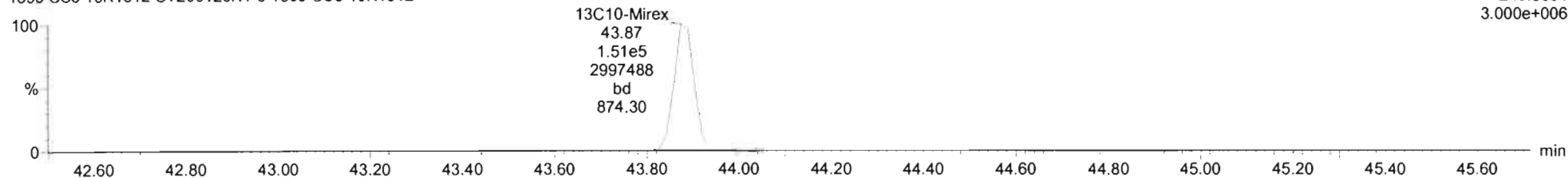
200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

F5:Voltage SIR,EI+
241.8581
4.812e+006



200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

F5:Voltage SIR,EI+
243.8551
3.000e+006



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

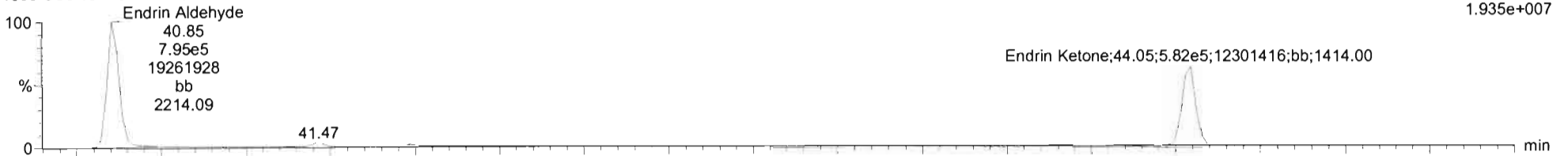
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

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EA-EK

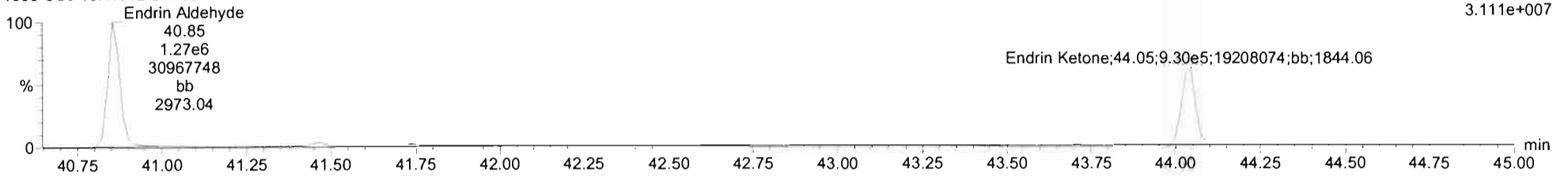
200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

F5:Voltage SIR,EI+
247.8521
1.935e+007



200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

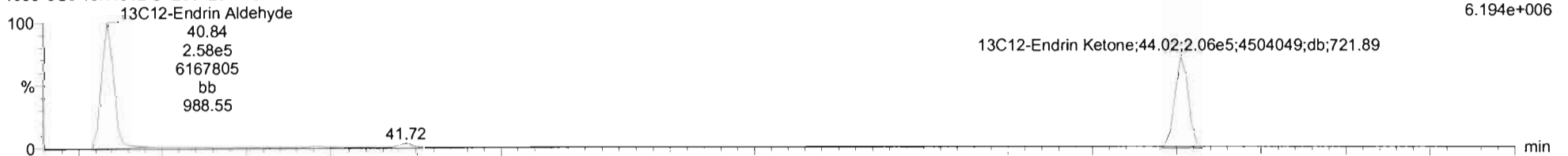
F5:Voltage SIR,EI+
249.8491
3.111e+007



EA-EK-isotopes

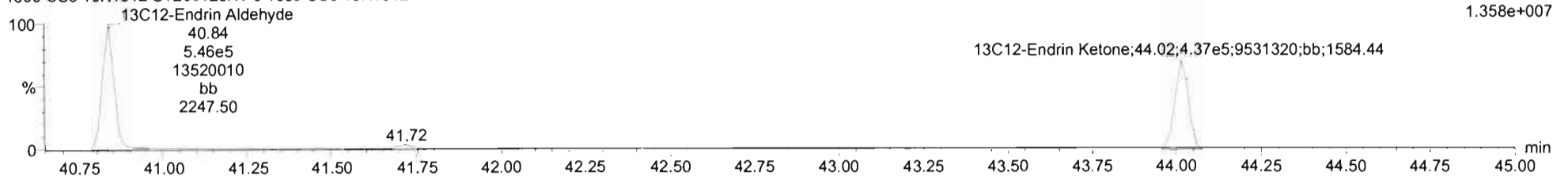
200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

F5:Voltage SIR,EI+
253.8722
6.194e+006



200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

F5:Voltage SIR,EI+
255.8693
1.358e+007



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

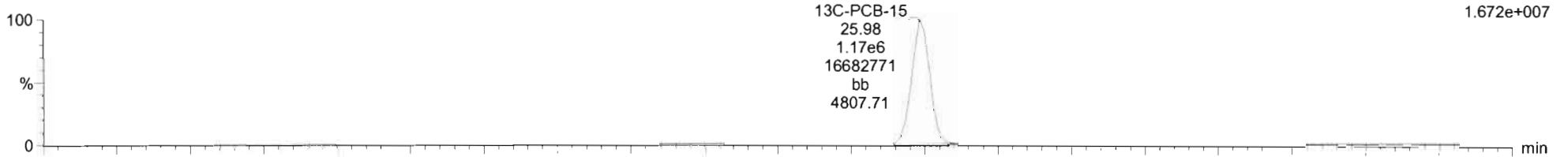
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

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13C-PCB-15

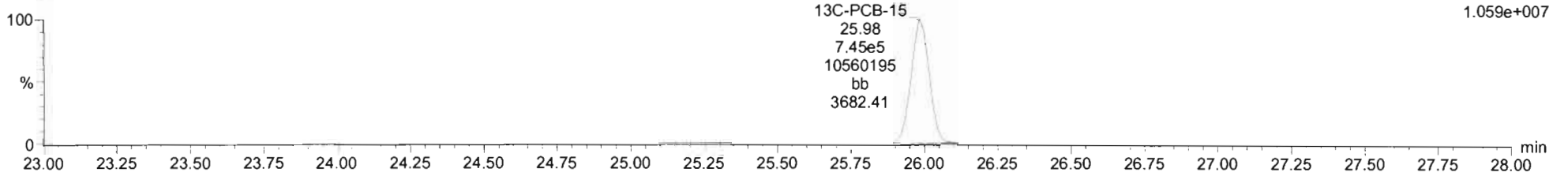
200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

F2:Voltage SIR,EI+
234.0406
1.672e+007



200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

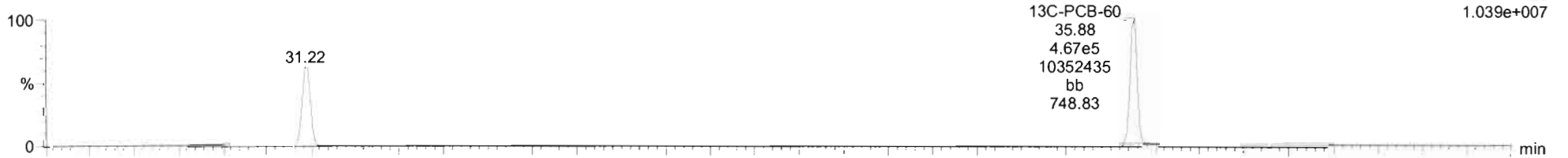
F2:Voltage SIR,EI+
236.0376
1.059e+007



13C-PCB-60

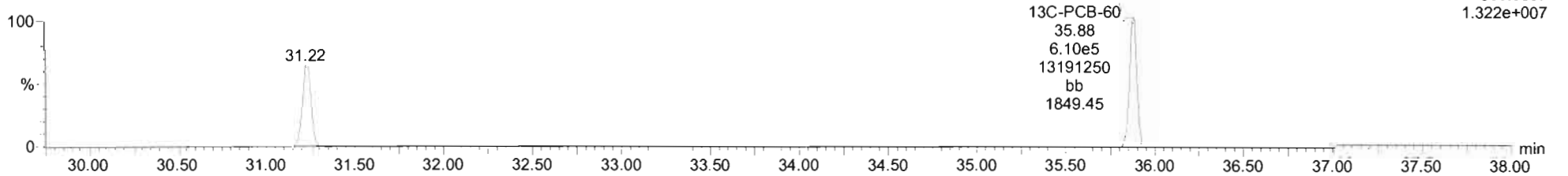
200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

F3:Voltage SIR,EI+
301.9626
1.039e+007



200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

F3:Voltage SIR,EI+
303.9597
1.322e+007



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

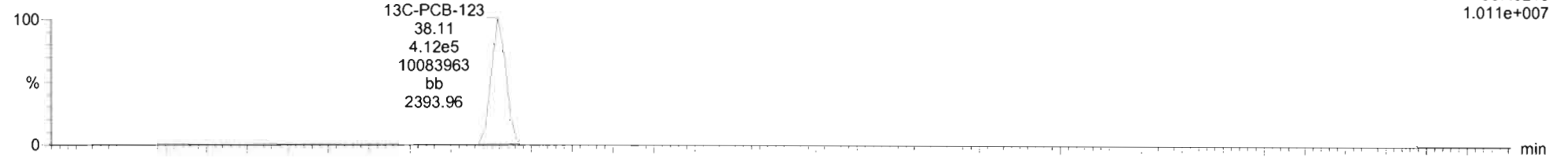
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Name: 200125K1_5, Date: 25-Jan-2020, Time: 16:23:25, ID: ST200125K1-5 1699 CS5 19K1312, Description: 1699 CS5 19K1312

13C-PCB-123

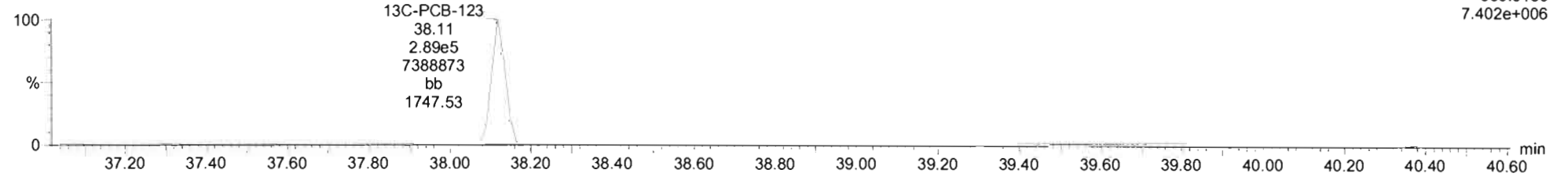
200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

F4:Voltage SIR,EI+
337.9210
1.011e+007



200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

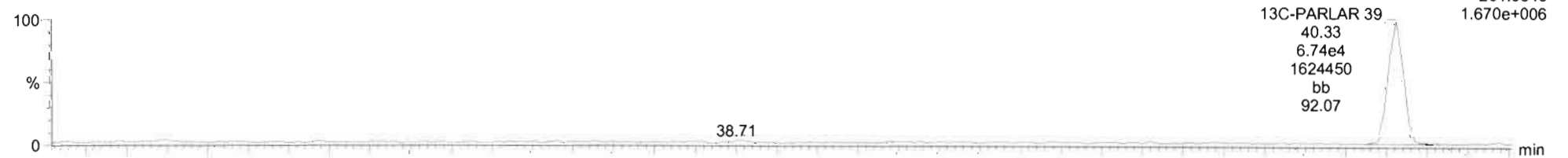
F4:Voltage SIR,EI+
339.9180
7.402e+006



13C-PARLAR 39

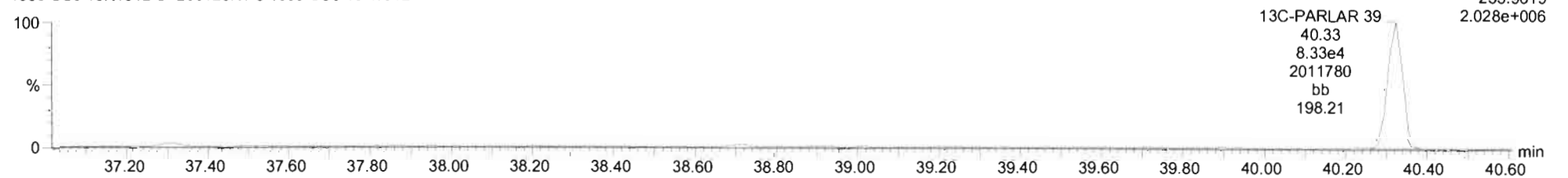
200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

F4:Voltage SIR,EI+
251.9648
1.670e+006



200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

F4:Voltage SIR,EI+
253.9619
2.028e+006



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

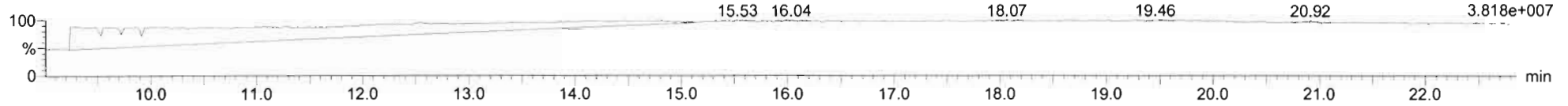
Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_5, Date: 25-Jan-2020, Time: 16:23:25, ID: ST200125K1-5 1699 CS5 19K1312, Description: 1699 CS5 19K1312

PFK1

200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

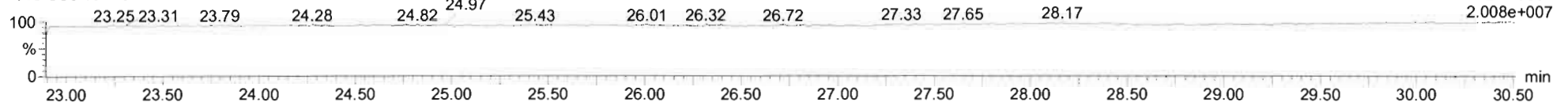
F1:Voltage SIR,EI+
268.9824
3.818e+007



PFK2

200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

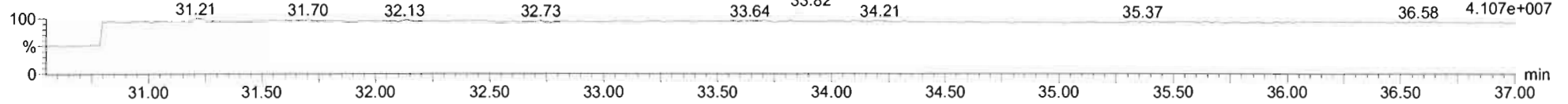
F2:Voltage SIR,EI+
242.9856
2.008e+007



PFK3

200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

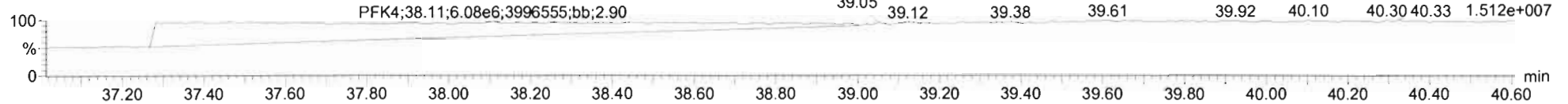
F3:Voltage SIR,EI+
268.9824
4.107e+007



PFK4

200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

F4:Voltage SIR,EI+
242.9856
1.512e+007



PFK5

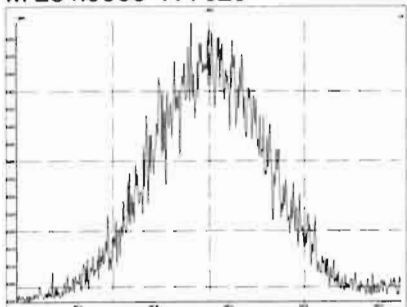
200125K1_5
1699 CS5 19K1312 ST200125K1-5 1699 CS5 19K1312

F5:Voltage SIR,EI+
242.9856
2.377e+007

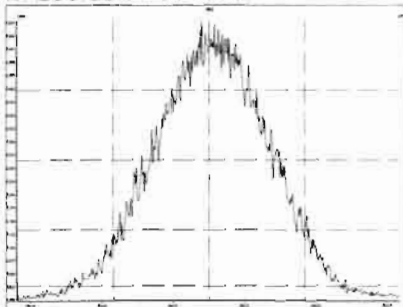


Printed: Sunday, January 26, 2020 05:38:39 Pacific Standard Time

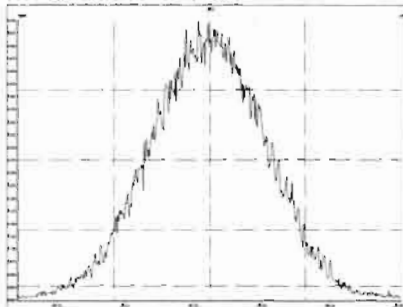
M 254.9856 R 7520



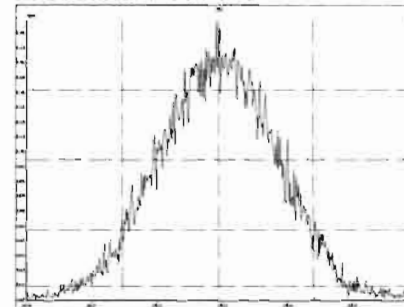
M 268.9824 R 7309



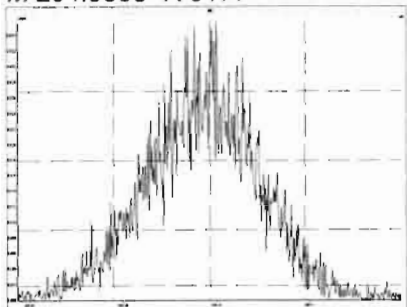
M 280.9824 R 7267



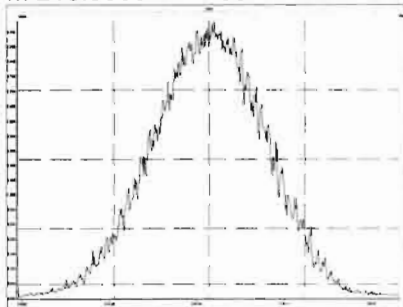
M 292.9824 R 7418



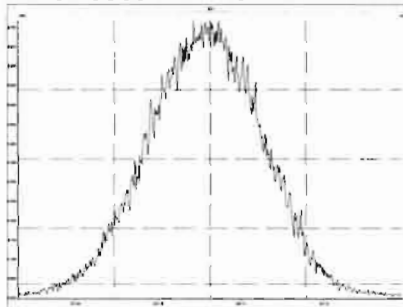
M 204.9888 R 8177



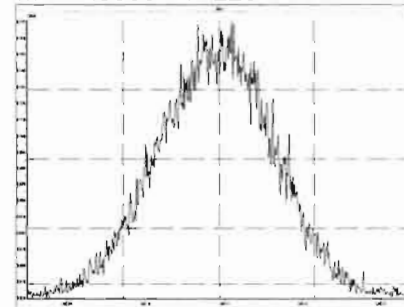
M 218.9856 R 7453



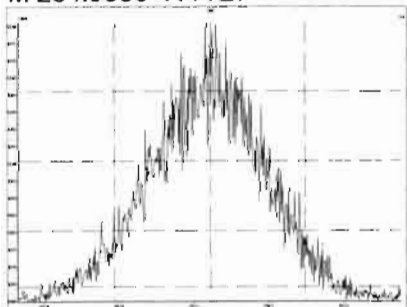
M 230.9856 R 7193



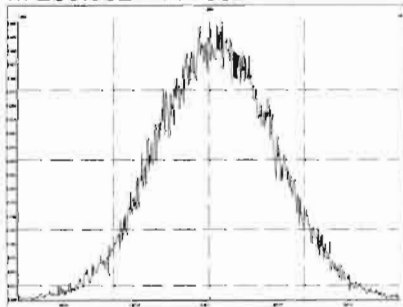
M 242.9856 R 7225



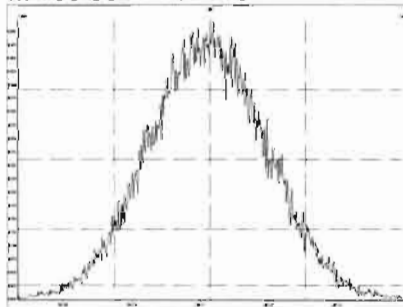
M 254.9856 R 7727



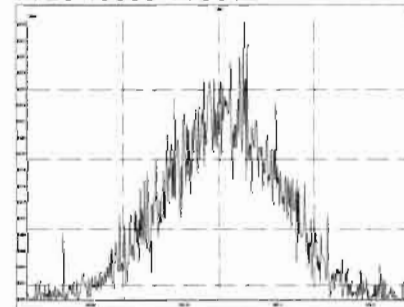
M 268.9824 R 7082



M 280.9824 R 7145

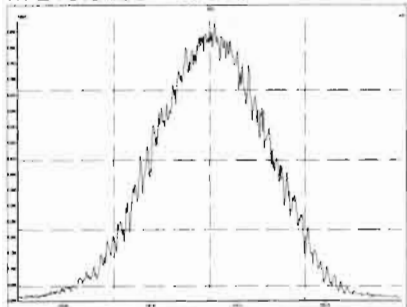


M 204.9888 R 8512

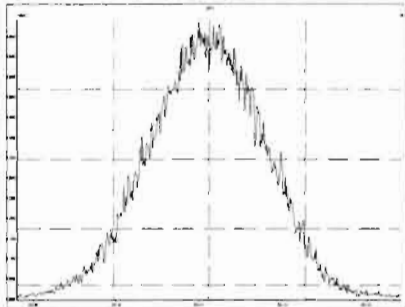


Printed: Sunday, January 26, 2020 05:38:39 Pacific Standard Time

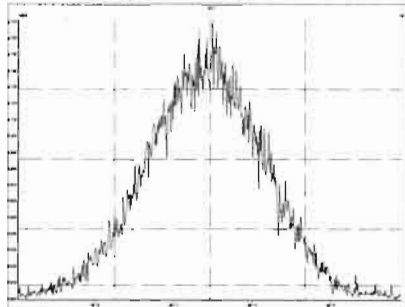
M 218.9856 R 7396



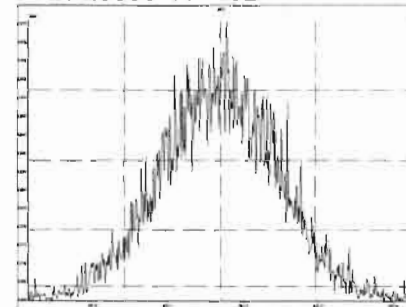
M 230.9856 R 7104



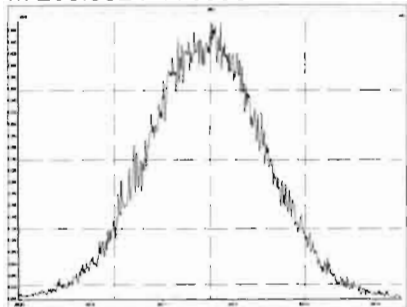
M 242.9856 R 7320



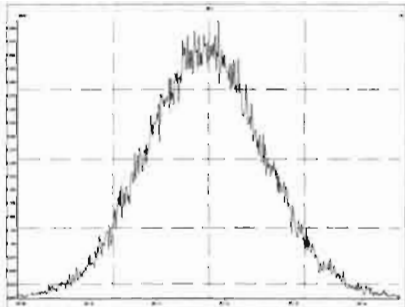
M 254.9856 R 7752



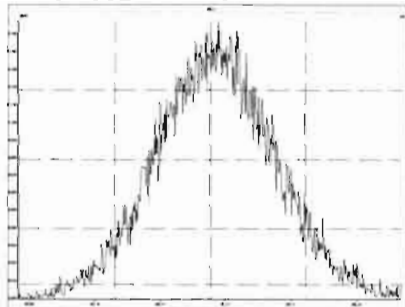
M 268.9824 R 6993



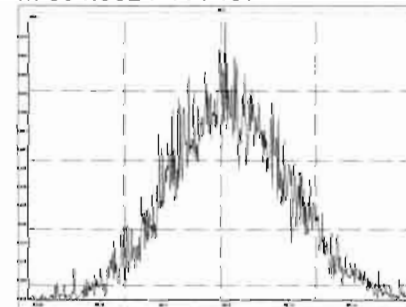
M 280.9824 R 6935



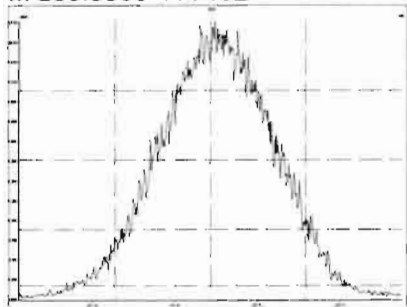
M 292.9824 R 7197



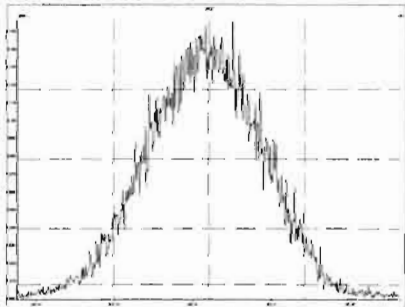
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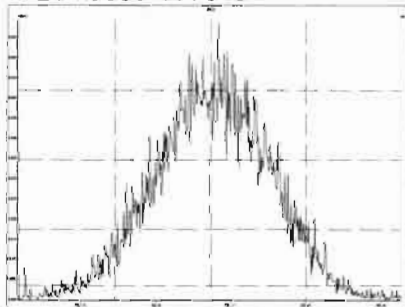
M 230.9856 R 7102



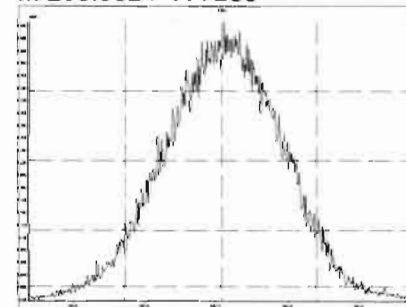
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M 254.9856 R 7518

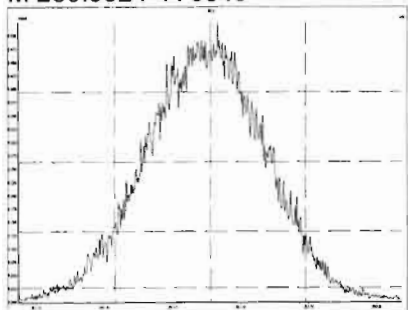


M 268.9824 R 7288

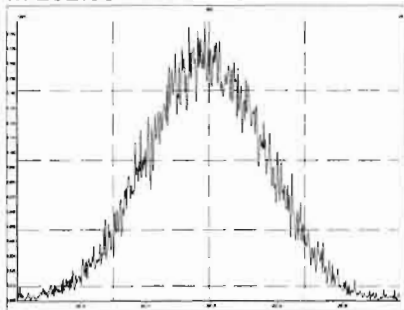


Printed: Sunday, January 26, 2020 05:38:39 Pacific Standard Time

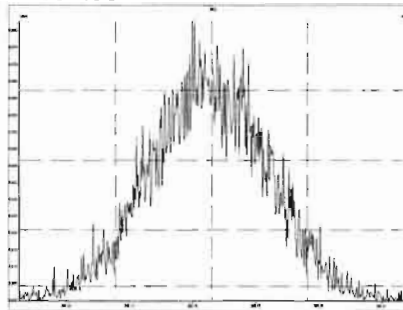
M 280.9824 R 6840



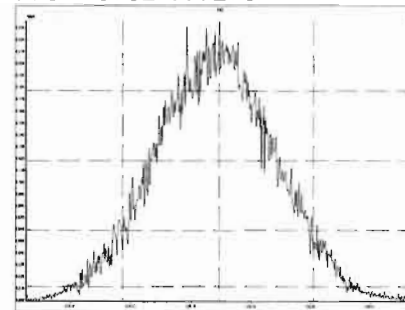
M 292.9824 R 7056



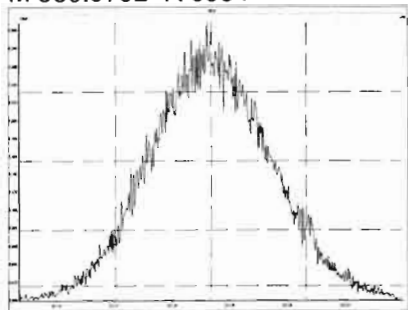
M 304.9824 R 8020



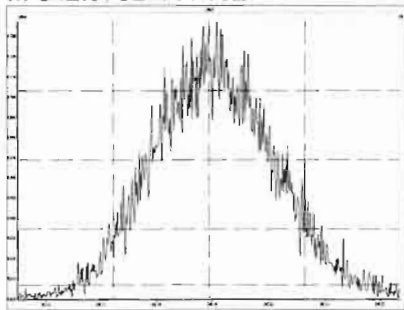
M 318.9792 R 7278



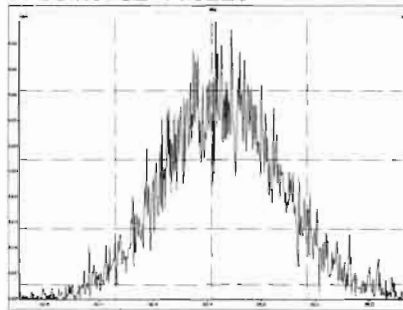
M 330.9792 R 6954



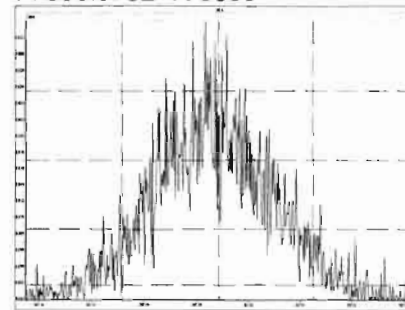
M 342.9792 R 7102



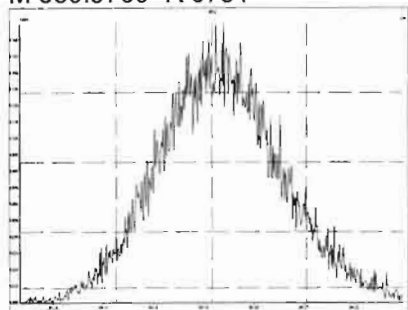
M 354.9792 R 8223



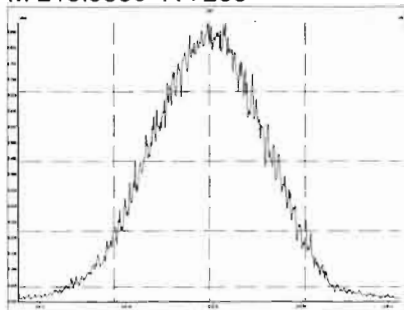
M 366.9792 R 8650



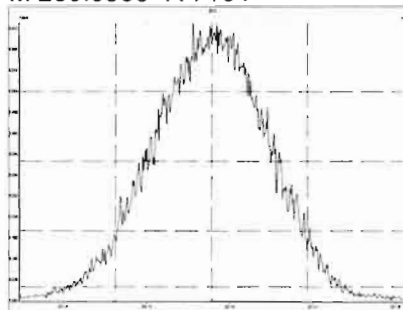
M 380.9760 R 6781



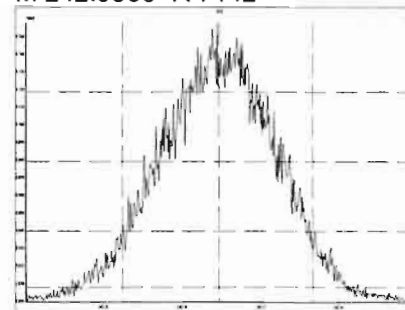
M 218.9856 R 7288



M 230.9856 R 7164

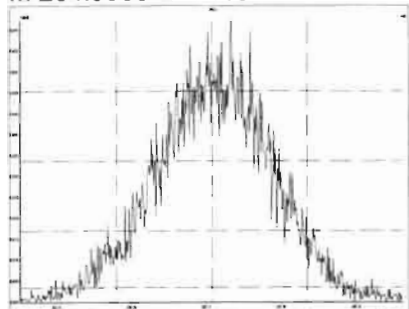


M 242.9856 R 7142

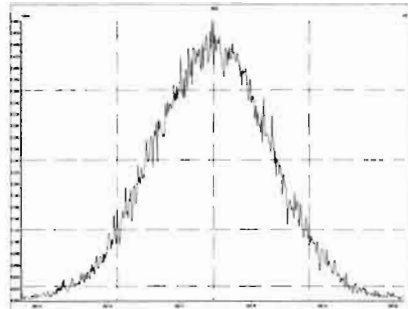


Printed: Sunday, January 26, 2020 05:38:39 Pacific Standard Time

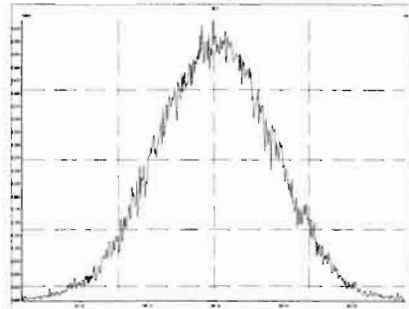
M 254.9856 R 7419



M 268.9824 R 7072



M 280.9824 R 7196



Dataset: U:\VG11.PRO\Results\200125K1\200125K1-7.qld

Last Altered: Monday, January 27, 2020 09:04:10 Pacific Standard Time

Printed: Monday, January 27, 2020 09:56:10 Pacific Standard Time

HL 1-27-2020

01 01/27/2020

Method: U:\VG11.PRO\MethDB\1699rrt-01-25-2020.mdb 25 Jan 2020 13:55:51

Calibration: U:\VG11.PRO\CurveDB\db_50_1699vg11-1-25-20-LIMITED.cdb 27 Jan 2020 09:02:26

Name: 200125K1_7, Date: 25-Jan-2020, Time: 18:01:50, ID: SS200125K1-1 1699 SS 19H0208, Description: 1699 SS 19H0208

#	Name	Resp	IS Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	RRT Fail	Conc.	%Rec	DL	EMPC
1	2 Hexachlorobenzene	2.44e6	1.31e6	1.24	NO	0.997	1.000	22.67	22.66	1.001	1.001	NO	93.2	93.2	0.00649	93.2
2	3 Alpha-BHC	7.88e5	4.89e5	2.10	NO	0.862	1.000	23.23	23.20	1.001	1.002	NO	93.4	93.4	0.196	93.4
3	4 Lindane (gamma-BHC)	6.43e5	3.93e5	2.13	NO	0.869	1.000	26.51	26.51	1.001	1.001	NO	94.1	94.1	0.280	94.1
4	5 Beta-BHC	5.60e5	2.98e5	2.13	NO	1.02	1.000	28.54	28.55	1.001	1.000	NO	92.4	92.4	0.248	92.4
5	6 Delta-BHC	6.31e5	3.53e5	2.16	NO	0.952	1.000	30.24	30.24	1.000	1.001	NO	93.9	93.9	0.213	93.9
6	7 Heptachlor	3.98e5	1.98e5	1.16	NO	1.08	1.000	28.68	28.69	1.002	1.001	NO	93.0	93.0	0.0790	93.0
7	9 Aldrin	5.43e5	2.61e5	1.58	NO	1.11	1.000	30.80	30.80	1.001	1.001	NO	93.4	93.4	0.0580	93.4
8	10 Oxychlorane	1.25e5	6.24e4	1.64	NO	1.09	1.000	33.37	33.38	1.001	1.001	NO	91.3	91.3	0.227	91.3
9	11 cis-Heptachlor Epoxide	1.65e5	7.99e4	1.54	NO	1.13	1.000	34.16	34.17	1.001	1.001	NO	91.1	91.1	0.163	91.1
10	12 trans-Heptachlor Epox...	3.74e4	7.99e4	1.52	NO	0.260	1.000	34.65	34.67	1.015	1.015	NO	90.0	90.0	0.708	90.0
11	13 trans-Chlordane (gam...	1.24e5	5.48e4	1.61	NO	1.18	1.000	35.08	35.08	1.000	1.001	NO	96.2	96.2	0.215	96.2
12	14 trans-Nonachlor	1.31e5	6.49e4	1.58	NO	1.08	1.000	35.26	35.26	1.001	1.001	NO	93.8	93.8	0.193	93.8
13	15 cis-Chlordane	1.33e5	6.49e4	1.64	NO	1.11	1.000	35.74	35.75	1.015	1.014	NO	92.2	92.2	0.187	92.2
14	16 Endosulfan I (alpha)	9.27e4	4.38e4	1.59	NO	1.16	1.000	35.85	35.85	1.000	1.001	NO	91.5	91.5	0.269	91.5
15	18 2,4'-DDE	2.73e6	1.49e6	1.39	NO	0.984	1.000	35.73	35.73	1.000	1.000	NO	93.3	93.3	0.167	93.3
16	19 4,4'-DDE	2.00e6	1.08e6	1.41	NO	0.996	1.000	36.80	36.81	1.001	1.000	NO	93.3	93.3	0.241	93.3
17	20 Dieldrin	3.13e5	1.50e5	1.54	NO	1.09	1.000	37.30	37.31	1.001	1.000	NO	95.1	95.1	0.121	95.1
18	21 Endrin	1.72e5	8.49e4	1.60	NO	1.06	1.000	38.69	38.71	1.000	1.000	NO	96.1	96.1	0.212	96.1
19	22 cis-Nonachlor	1.57e5	7.38e4	1.55	NO	1.08	1.000	38.99	38.99	1.000	1.000	NO	99.1	99.1	0.250	99.1
20	23 Endosulfan II (beta)	4.99e4	2.39e4	1.61	NO	1.11	1.000	39.72	39.73	1.000	1.000	NO	94.1	94.1	0.792	94.1
21	24 2,4'-DDD	2.76e6	1.42e6	1.52	NO	1.05	1.000	37.94	37.95	1.000	1.000	NO	92.8	92.8	0.276	92.8
22	25 2,4'-DDT	1.88e6	9.08e5	1.50	NO	1.03	1.000	39.08	39.08	1.000	1.000	NO	100	100	0.441	100
23	26 4,4'-DDD	2.57e6	1.22e6	1.53	NO	1.12	1.000	39.20	39.20	1.000	1.000	NO	93.4	93.4	0.287	93.4
24	27 4,4'-DDT	1.66e6	7.92e5	1.55	NO	1.13	1.000	40.29	40.27	1.000	1.000	NO	92.6	92.6	0.466	92.6
25	28 Endosulfan Sulfate	7.10e4	3.65e4	1.61	NO	0.987	1.000	41.44	41.47	1.001	1.000	NO	98.6	98.6	0.418	98.6
26	29 4,4'-Methoxychlor	2.06e6	8.74e6	6.08	NO	1.27	1.000	43.33	43.32	1.000	1.000	NO	92.9	92.9	0.0546	92.9
27	30 Mirex	7.52e5	3.78e5	1.54	NO	1.04	1.000	43.90	43.90	1.001	1.000	NO	95.4	95.4	0.138	95.4
28	31 Endrin Aldehyde	1.76e5	7.69e5	0.63	NO	1.06	1.000	40.86	40.85	1.000	1.000	NO	108	108	0.454	108
29	32 Endrin Ketone	1.46e5	6.50e5	0.62	NO	0.974	1.000	44.01	44.03	1.000	1.000	NO	115	115	0.618	115
30	34 13C6-Hexachlorobenz...	1.31e6	2.03e6	1.27	NO	0.674	1.000	22.66	22.65	0.872	0.872	NO	48.1	96.2	0.00546	
31	35 13C6-Alpha-BHC	4.89e5	2.03e6	0.79	NO	0.255	1.000	23.19	23.18	0.892	0.892	NO	47.4	94.7	0.167	

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Printed: Monday, January 27, 2020 09:56:10 Pacific Standard Time

Name: 200125K1_7, Date: 25-Jan-2020, Time: 18:01:50, ID: SS200125K1-1 1699 SS 19H0208, Description: 1699 SS 19H0208

	#-Name	Resp	IS Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	RRT Fail	Conc.	%Rec	DL	EMPC
32	36 13C6-Lindane (gamma)	3.93e5	2.03e6	0.80	NO	0.201	1.000	26.45	26.48	1.019	1.018	NO	48.3	96.6	0.212	
33	37 13C6-Beta-BHC	2.98e5	2.03e6	0.78	NO	0.155	1.000	28.54	28.53	1.098	1.099	NO	47.5	95.0	0.275	
34	38 13C6-Delta-BHC	3.53e5	2.03e6	0.79	NO	0.183	1.000	30.23	30.22	1.163	1.164	NO	47.6	95.2	0.232	
35	39 13C10-Heptachlor	1.98e5	2.03e6	1.28	NO	0.106	1.000	28.67	28.65	1.103	1.104	NO	46.3	92.6	0.105	
36	40 13C12-Aldrin	2.61e5	2.03e6	1.62	NO	0.130	1.000	30.78	30.77	1.184	1.185	NO	49.5	99.0	0.137	
37	41 13C10-Oxychlorthane	6.24e4	2.03e6	1.65	NO	0.0314	1.000	33.38	33.35	1.284	1.285	NO	49.1	98.1	0.570	
38	42 13C10-cis-Heptachlor ...	7.99e4	2.03e6	1.70	NO	0.0404	1.000	34.17	34.14	1.314	1.315	NO	48.7	97.5	0.442	
39	43 13C10-trans-Chlordan...	5.48e4	2.03e6	1.71	NO	0.0281	1.000	35.08	35.06	1.349	1.350	NO	48.1	96.2	0.636	
40	44 13C10-trans-Nonachlor	6.49e4	2.03e6	1.60	NO	0.0330	1.000	35.27	35.24	1.356	1.357	NO	48.5	97.0	0.542	
41	45 13C9-Endosulfan I (al...	4.38e4	2.03e6	1.67	NO	0.0219	1.000	35.85	35.83	1.379	1.380	NO	49.3	98.6	0.816	
42	46 13C12-2,4'-DDE	1.49e6	2.03e6	1.57	NO	0.765	1.000	35.69	35.72	0.996	0.995	NO	48.0	96.0	0.0596	
43	47 13C12-4,4'-DDE	1.08e6	2.03e6	1.58	NO	0.556	1.000	36.77	36.78	1.026	1.025	NO	47.7	95.4	0.0820	
44	48 13C12-Dieldrin	1.50e5	2.03e6	1.59	NO	0.0759	1.000	37.28	37.28	1.040	1.040	NO	48.8	97.7	0.288	
45	49 13C12-Endrin	8.49e4	2.03e6	1.62	NO	0.0477	1.000	38.68	38.69	1.079	1.079	NO	43.9	87.8	0.458	
46	50 13C10-cis-Nonachlor	7.38e4	2.03e6	1.60	NO	0.0389	1.000	38.97	38.97	1.087	1.087	NO	46.8	93.5	0.562	
47	51 13C9-Endosulfan II	2.39e4	2.03e6	1.76	NO	0.0122	1.000	39.70	39.72	1.107	1.107	NO	48.3	96.6	1.79	
48	52 13C12-2,4'-DDD	1.42e6	2.03e6	1.60	NO	0.754	1.000	37.95	37.94	1.460	1.461	NO	46.4	92.8	0.0740	
49	53 13C12-2,4'-DDT	9.08e5	2.03e6	1.62	NO	0.519	1.000	39.08	39.06	1.504	1.504	NO	43.1	86.2	0.108	
50	54 13C12-4,4'-DDD	1.22e6	2.03e6	1.61	NO	0.662	1.000	39.21	39.18	1.508	1.509	NO	45.5	91.0	0.0843	
51	55 13C12-4,4'-DDT	7.92e5	2.03e6	1.60	NO	0.419	1.000	40.28	40.27	1.550	1.551	NO	46.6	93.1	0.133	
52	56 13C9-Endosulfan Sulf...	3.65e4	2.03e6	1.63	NO	0.0189	1.000	41.44	41.44	1.155	1.156	NO	47.5	95.1	1.40	
53	57 13C12-Methoxychlor	8.74e6	2.03e6	24.13	NO	0.473	1.000	43.30	43.32	1.208	1.207	NO	456	91.3	0.147	
54	58 13C10-Mirex	3.78e5	2.03e6	1.58	NO	0.194	1.000	43.87	43.87	1.223	1.223	NO	47.9	95.8	0.127	
55	59 13C12-Endrin Aldehyde	7.69e5	2.03e6	0.46	NO	0.0388	1.000	40.84	40.84	1.139	1.139	NO	488	97.6	1.59	
56	60 13C12-Endrin Ketone	6.50e5	2.03e6	0.48	NO	0.0330	1.000	44.03	44.01	1.227	1.228	NO	486	97.3	1.87	
57	62 13C-PCB-15	2.03e6	2.03e6	1.61	NO	1.00	1.000	25.96	25.98	1.000	1.000	NO	50.0	100	0.0320	

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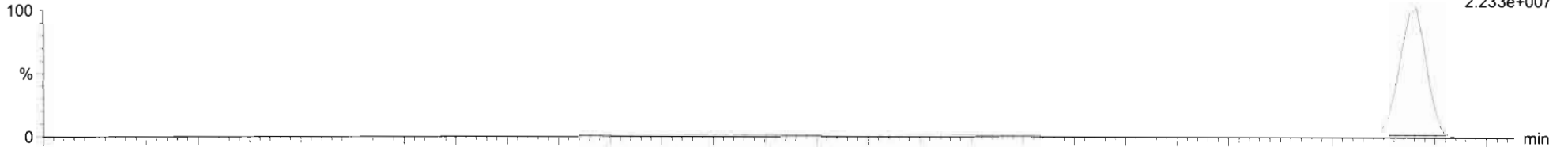
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Name: 200125K1_7, Date: 25-Jan-2020, Time: 18:01:50, ID: SS200125K1-1 1699 SS 19H0208, Description: 1699 SS 19H0208

Hexachlorobenzene

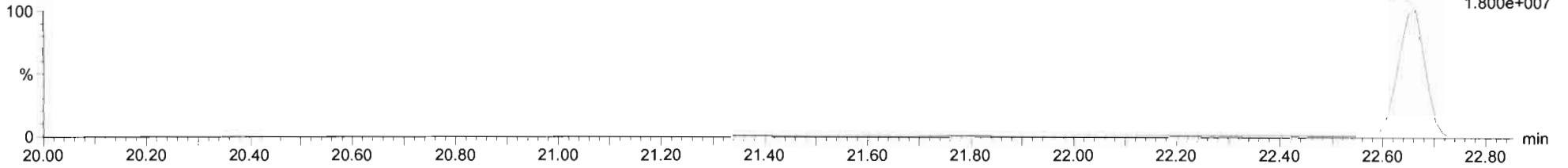
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F1:Voltage SIR,EI+
Hexachlorobenzene;22.66;1.35e6;22284104;bb;44828.74
283.8102
2.233e+007



200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

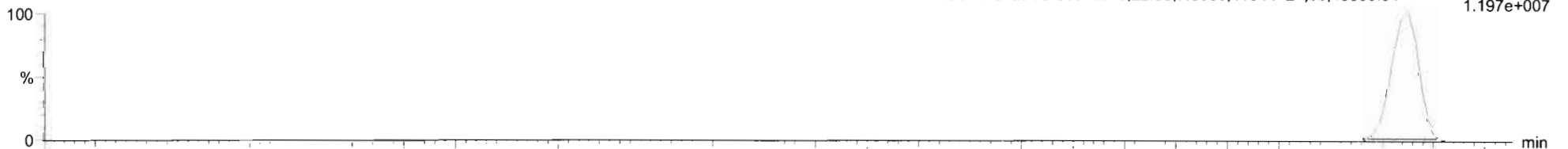
F1:Voltage SIR,EI+
Hexachlorobenzene;22.66;1.09e6;17965284;bb;29587.69
285.8072
1.800e+007



13C6-Hexachlorobenzene

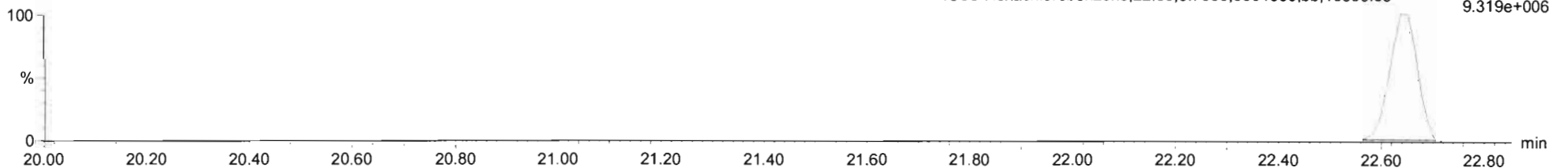
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F1:Voltage SIR,EI+
13C6-Hexachlorobenzene;22.65;7.35e5;11944124;bb;46609.94
289.8303
1.197e+007



200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F1:Voltage SIR,EI+
13C6-Hexachlorobenzene;22.63;5.79e5;9304850;bb;16860.55
291.8273
9.319e+006



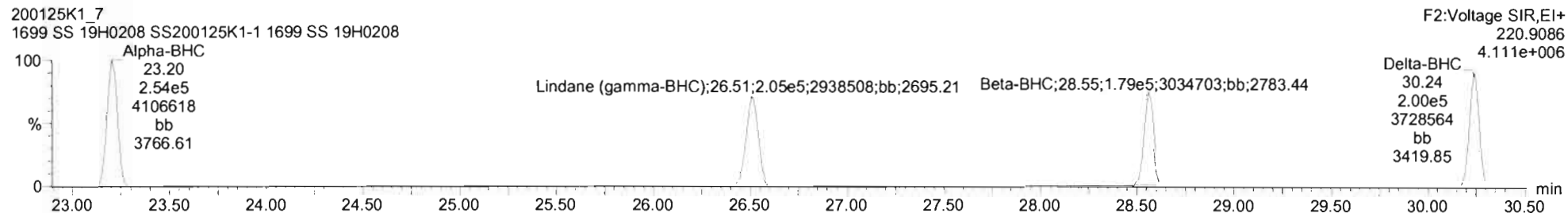
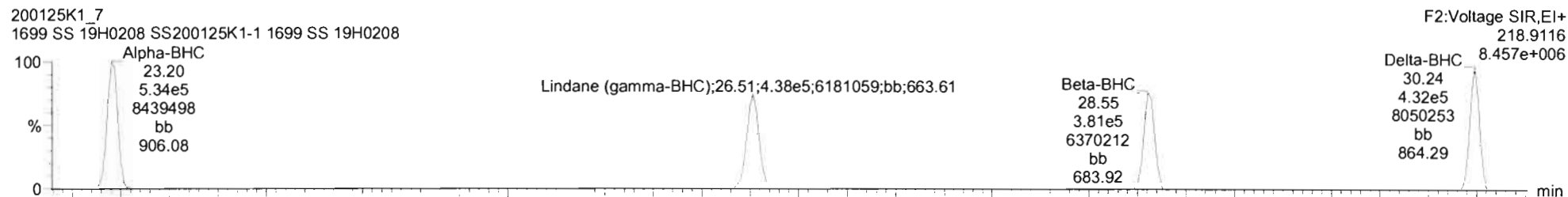
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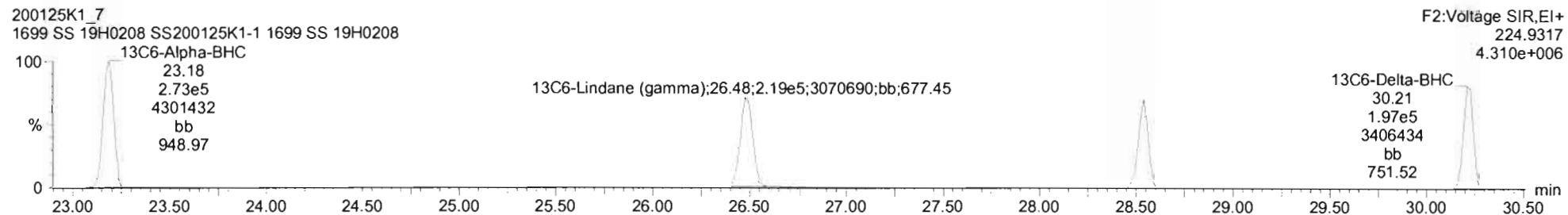
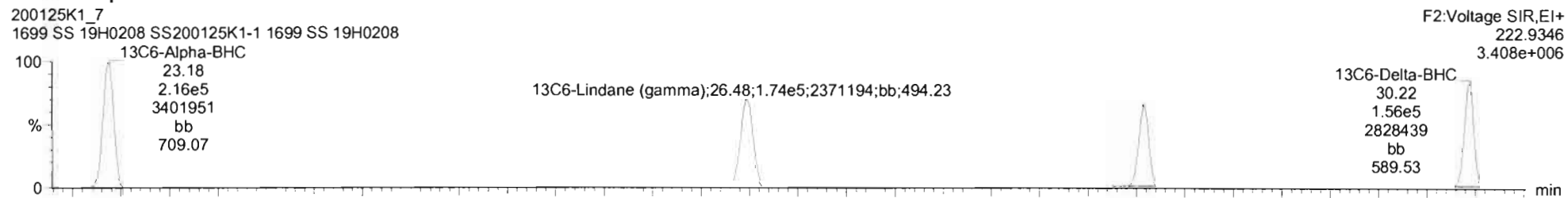
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Name: 200125K1_7, Date: 25-Jan-2020, Time: 18:01:50, ID: SS200125K1-1 1699 SS 19H0208, Description: 1699 SS 19H0208

BHC Totals



BHC-isotopes



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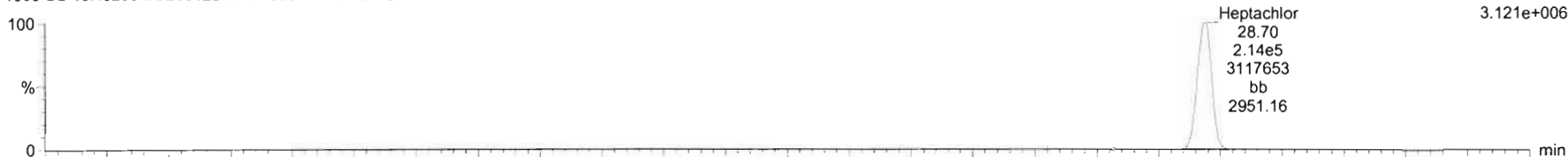
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Name: 200125K1_7, Date: 25-Jan-2020, Time: 18:01:50, ID: SS200125K1-1 1699 SS 19H0208, Description: 1699 SS 19H0208

Heptachlor

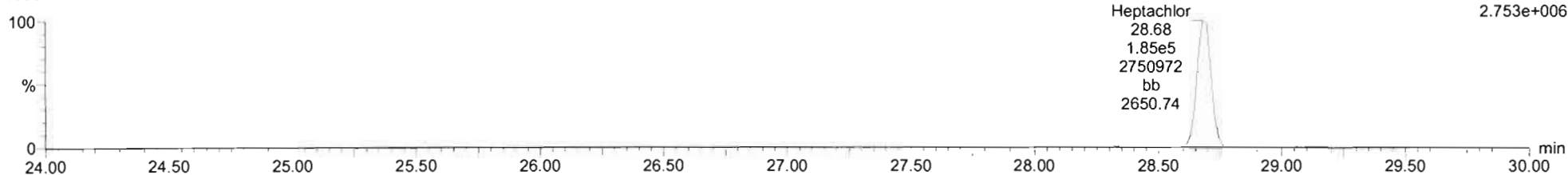
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F2:Voltage SIR,EI+
271.8102
3.121e+006



200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

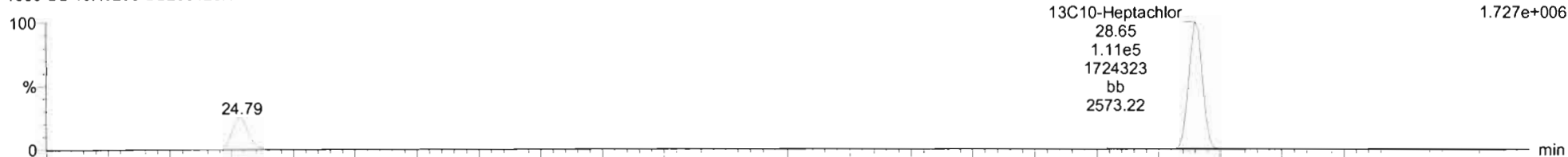
F2:Voltage SIR,EI+
273.8072
2.753e+006



13C10-Heptachlor

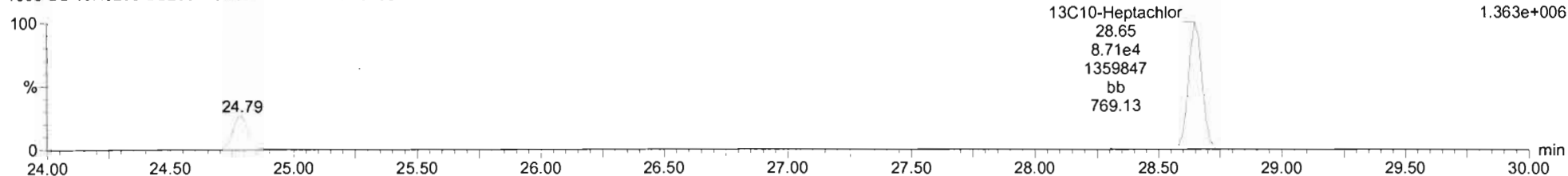
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F2:Voltage SIR,EI+
276.8269
1.727e+006



200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F2:Voltage SIR,EI+
278.8240
1.363e+006

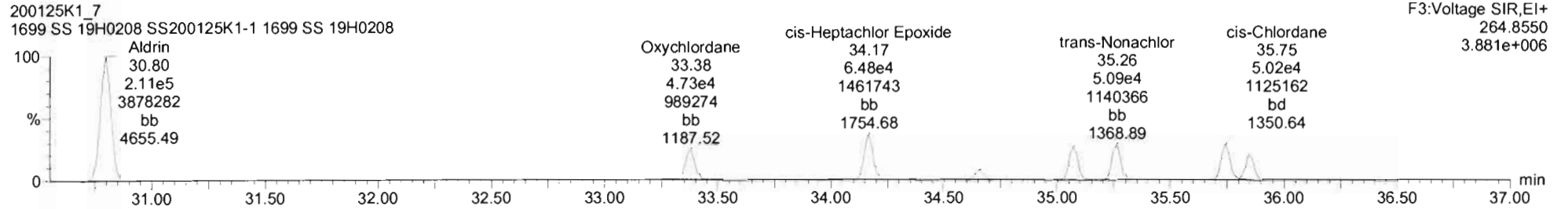
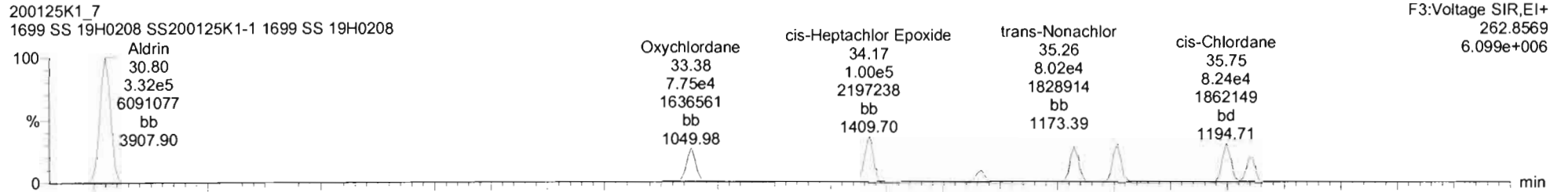


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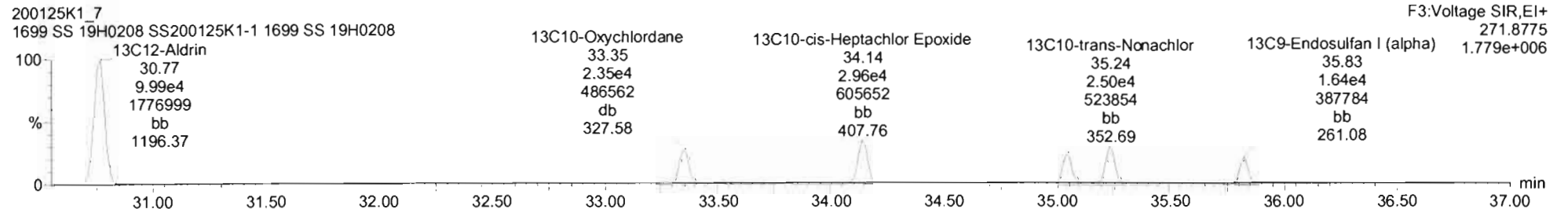
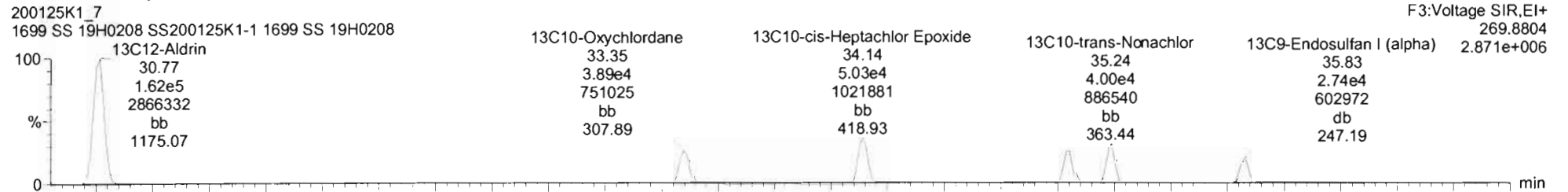
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Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_7, Date: 25-Jan-2020, Time: 18:01:50, ID: SS200125K1-1 1699 SS 19H0208, Description: 1699 SS 19H0208

Aldrin-EI



Aldrin-EI-isotopes



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

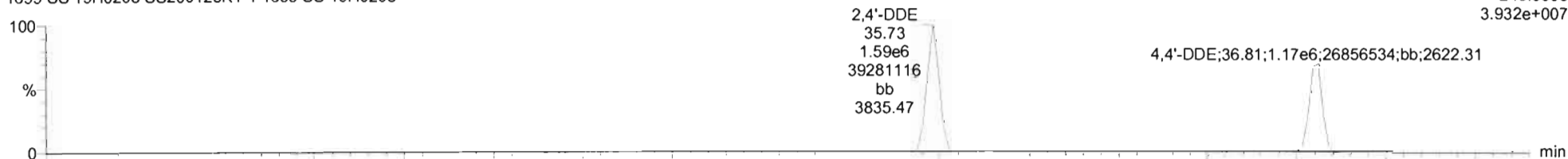
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Name: 200125K1_7, Date: 25-Jan-2020, Time: 18:01:50, ID: SS200125K1-1 1699 SS 19H0208, Description: 1699 SS 19H0208

DDMU-DDE

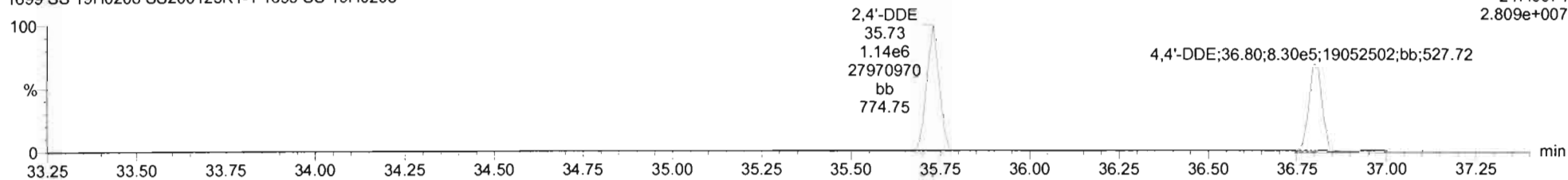
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F3:Voltage SIR,EI+
246.0003
3.932e+007



200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

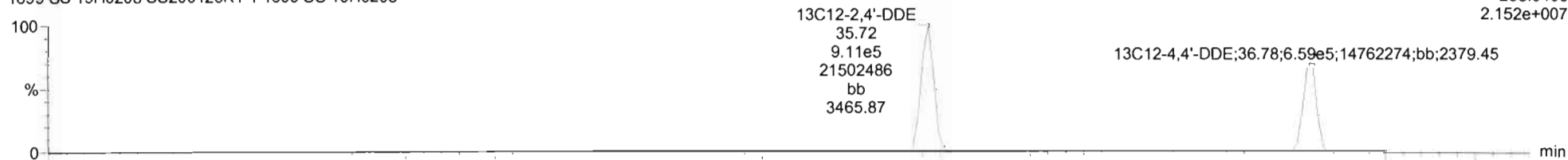
F3:Voltage SIR,EI+
247.9974
2.809e+007



DDE-isotopes

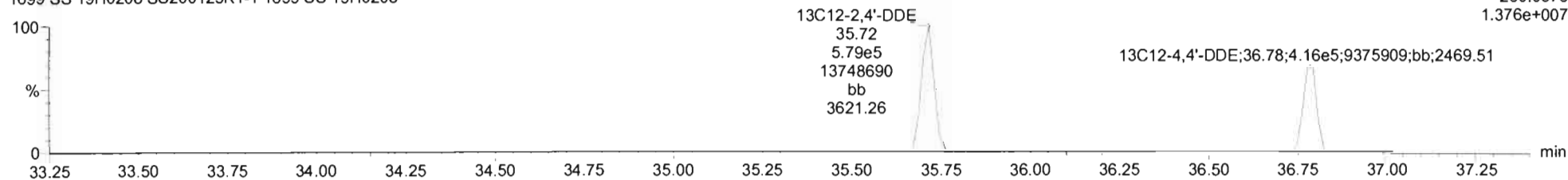
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F3:Voltage SIR,EI+
258.0406
2.152e+007



200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F3:Voltage SIR,EI+
260.0376
1.376e+007



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

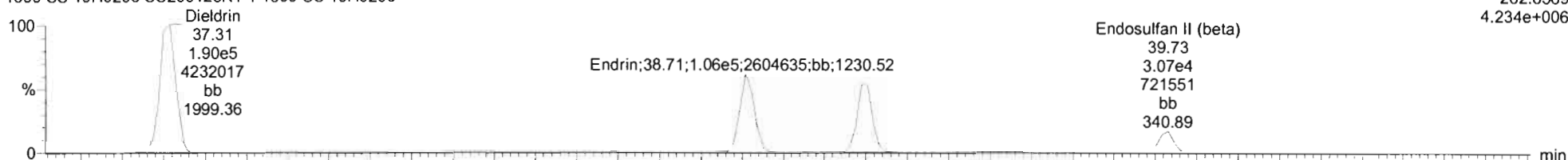
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Name: 200125K1_7, Date: 25-Jan-2020, Time: 18:01:50, ID: SS200125K1-1 1699 SS 19H0208, Description: 1699 SS 19H0208

Dieldrin-Ell

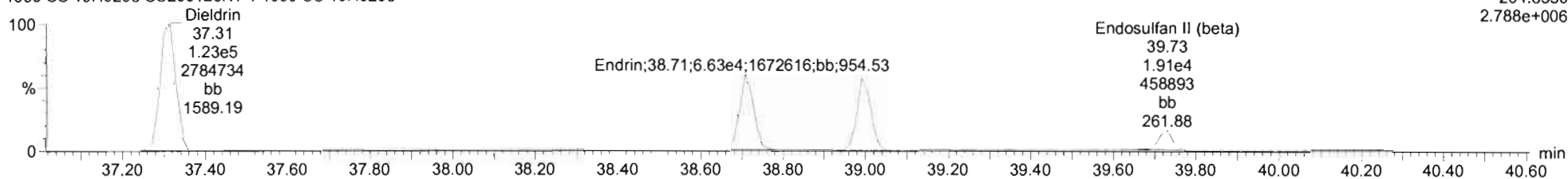
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F4:Voltage SIR,EI+
262.8569
4.234e+006



200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

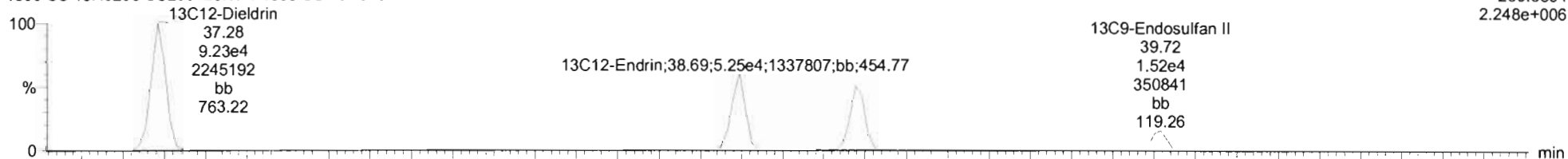
F4:Voltage SIR,EI+
264.8550
2.788e+006



Dieldrin-Ell-isotopes

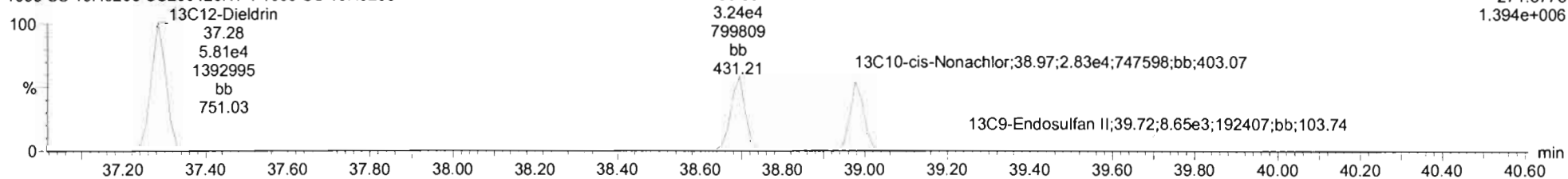
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F4:Voltage SIR,EI+
269.8804
2.248e+006



200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F4:Voltage SIR,EI+
271.8775
1.394e+006



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

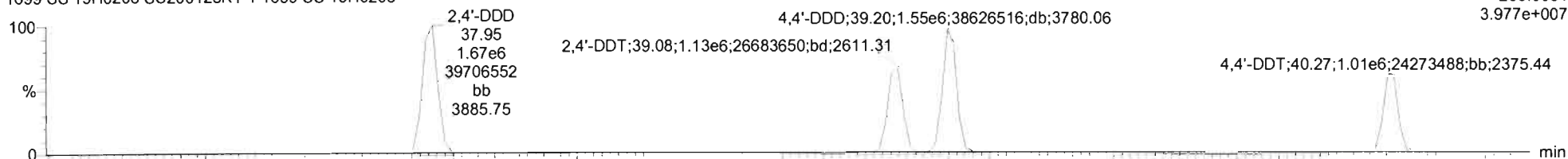
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Name: 200125K1_7, Date: 25-Jan-2020, Time: 18:01:50, ID: SS200125K1-1 1699 SS 19H0208, Description: 1699 SS 19H0208

DDD-DDT

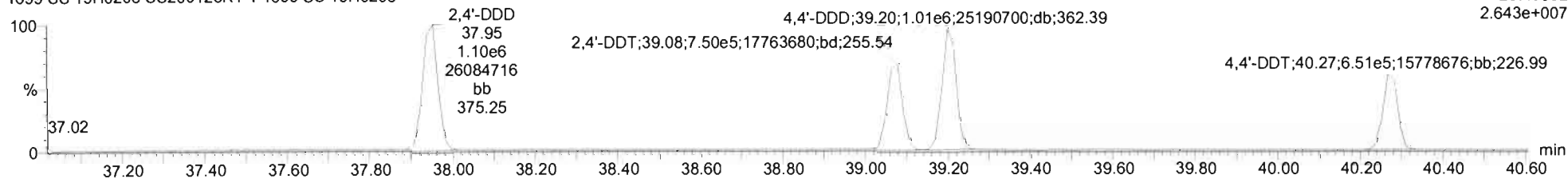
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F4:Voltage SIR,EI+
235.0081
3.977e+007



200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

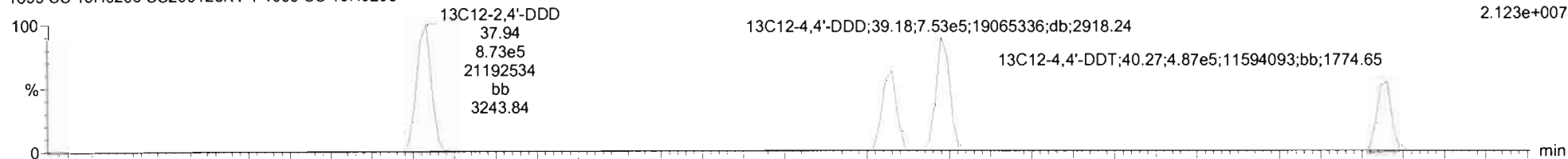
F4:Voltage SIR,EI+
237.0052
2.643e+007



DDD-DDT-isotopes

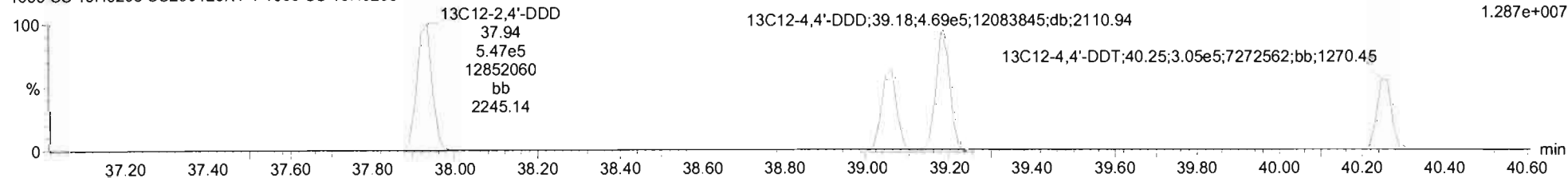
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F4:Voltage SIR,EI+
247.0484
2.123e+007



200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F4:Voltage SIR,EI+
249.0454
1.287e+007



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

Printed: Monday, January 27, 2020 09:17:37 Pacific Standard Time

Name: 200125K1_7, Date: 25-Jan-2020, Time: 18:01:50, ID: SS200125K1-1 1699 SS 19H0208, Description: 1699 SS 19H0208

Endosulfan Sulfate

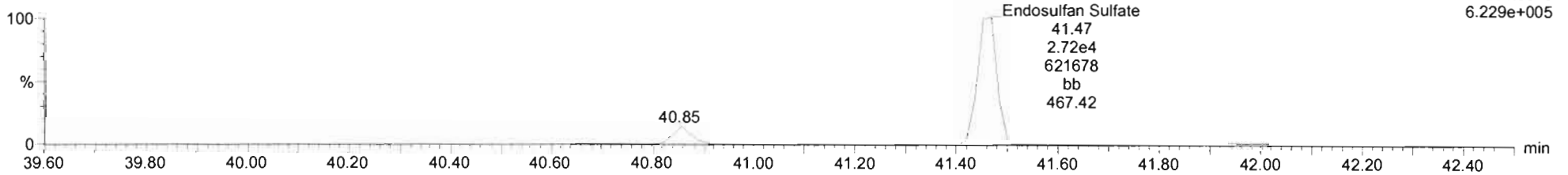
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F5:Voltage SIR,EI+
262.8569
1.049e+006



200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

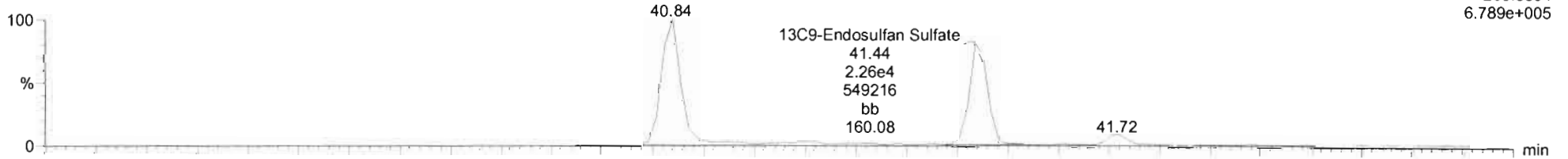
F5:Voltage SIR,EI+
264.8540
6.229e+005



13C9-Endosulfan Sulfate

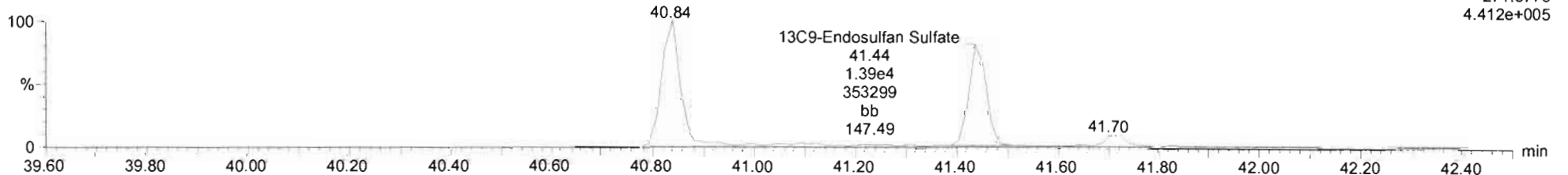
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F5:Voltage SIR,EI+
269.8804
6.789e+005



200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F5:Voltage SIR,EI+
271.8775
4.412e+005



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

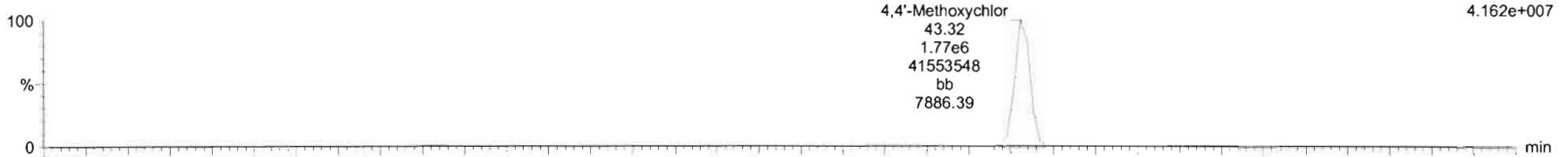
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4,4'-Methoxychlor

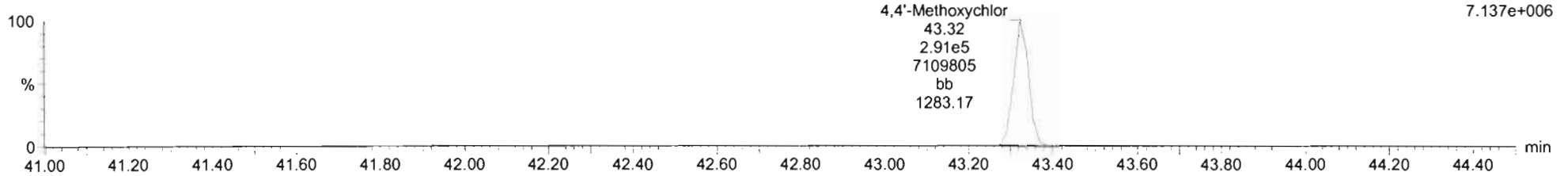
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F5:Voltage SIR,EI+
227.1072
4.162e+007



200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

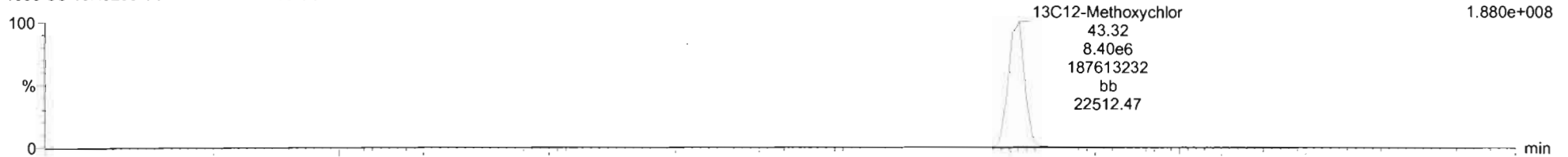
F5:Voltage SIR,EI+
228.1106
7.137e+006



13C12-Methoxychlor

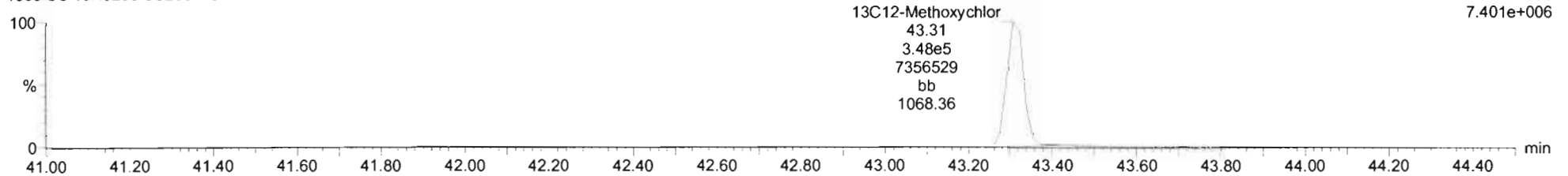
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F5:Voltage SIR,EI+
239.1475
1.880e+008



200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F5:Voltage SIR,EI+
240.1508
7.401e+006



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

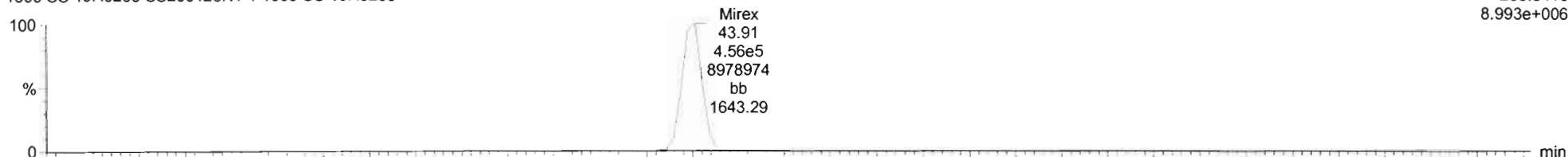
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Mirex

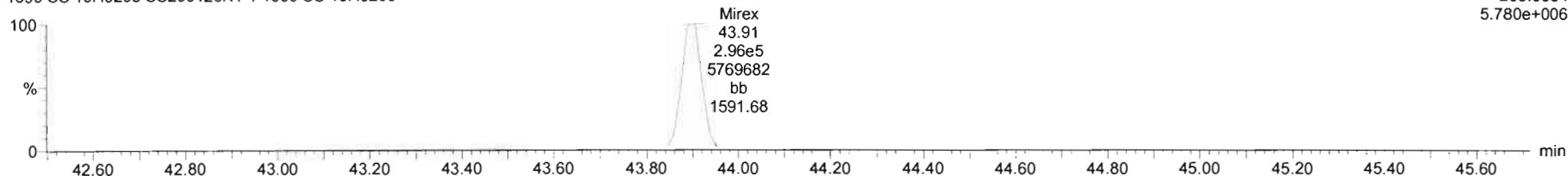
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F5:Voltage SIR,EI+
236.8413
8.993e+006



200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

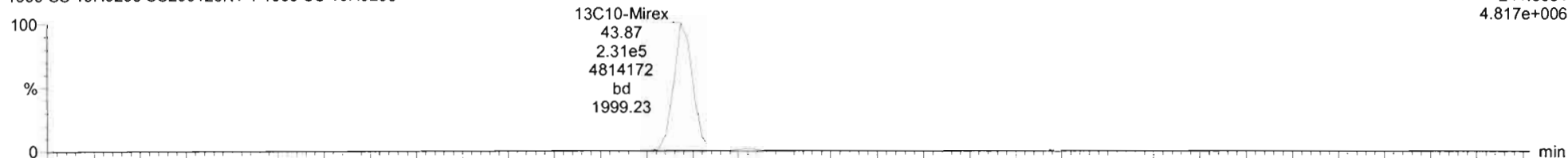
F5:Voltage SIR,EI+
238.8384
5.780e+006



13C10-Mirex

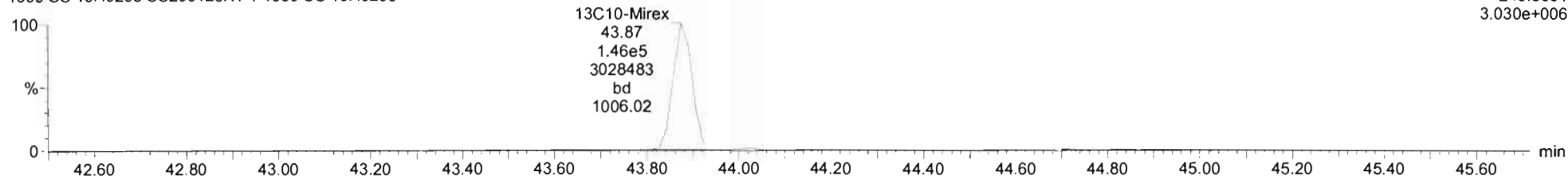
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F5:Voltage SIR,EI+
241.8581
4.817e+006



200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F5:Voltage SIR,EI+
243.8551
3.030e+006



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

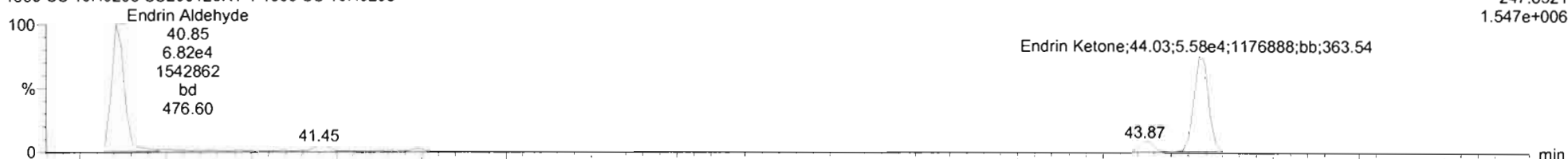
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EA-EK

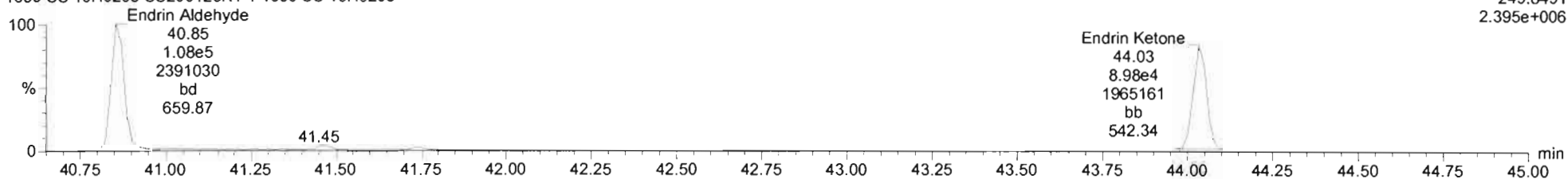
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F5:Voltage SIR,EI+
247.8521
1.547e+006



200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

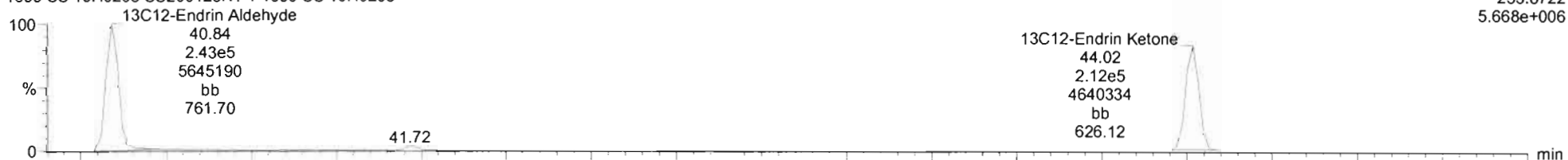
F5:Voltage SIR,EI+
249.8491
2.395e+006



EA-EK-isotopes

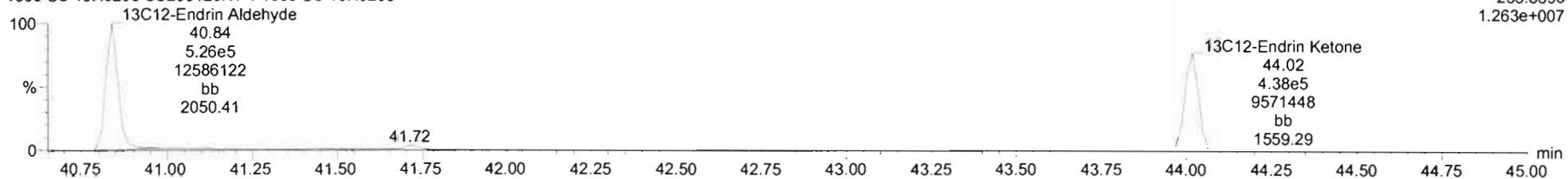
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F5:Voltage SIR,EI+
253.8722
5.668e+006



200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F5:Voltage SIR,EI+
255.8693
1.263e+007



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

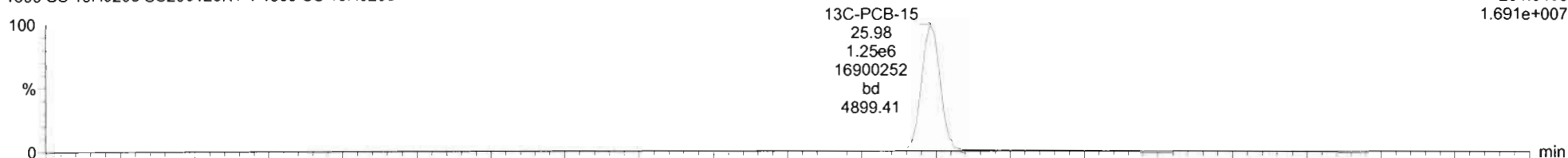
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13C-PCB-15

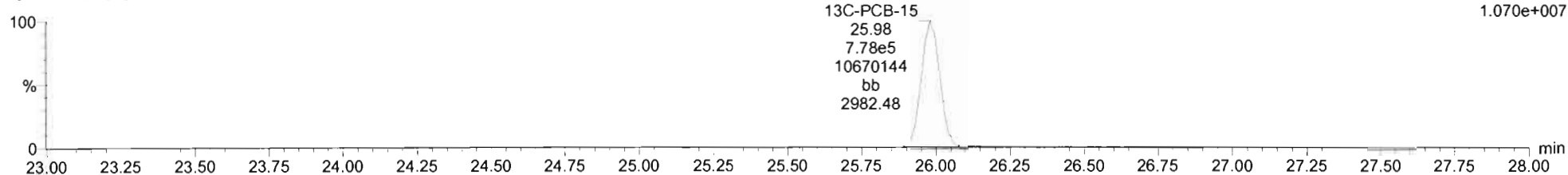
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F2:Voltage SIR,EI+
234.0406
1.691e+007



200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

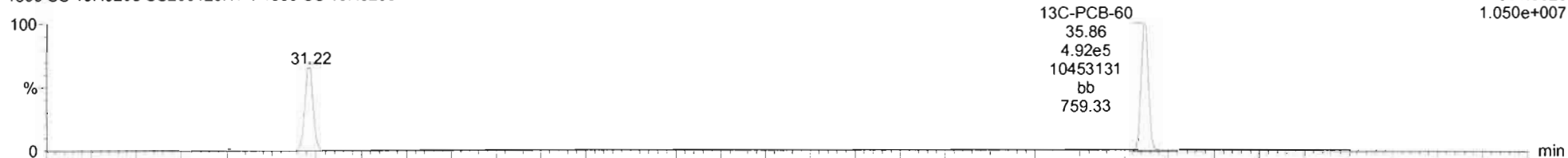
F2:Voltage SIR,EI+
236.0376
1.070e+007



13C-PCB-60

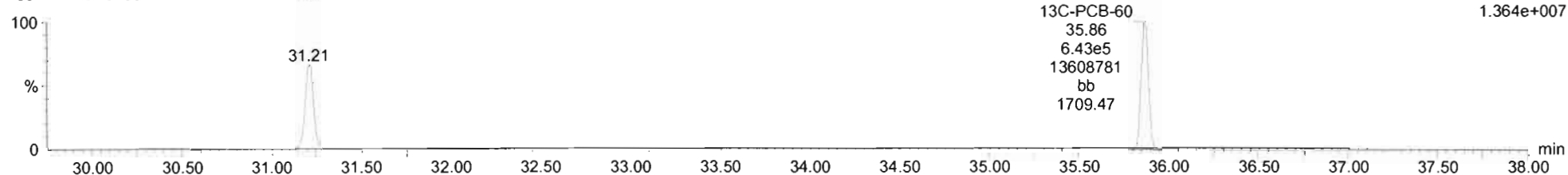
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F3:Voltage SIR,EI+
301.9626
1.050e+007



200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F3:Voltage SIR,EI+
303.9597
1.364e+007



Dataset: Untitled

Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

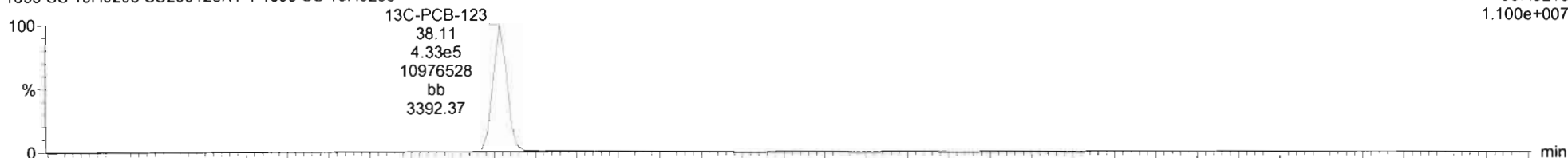
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13C-PCB-123

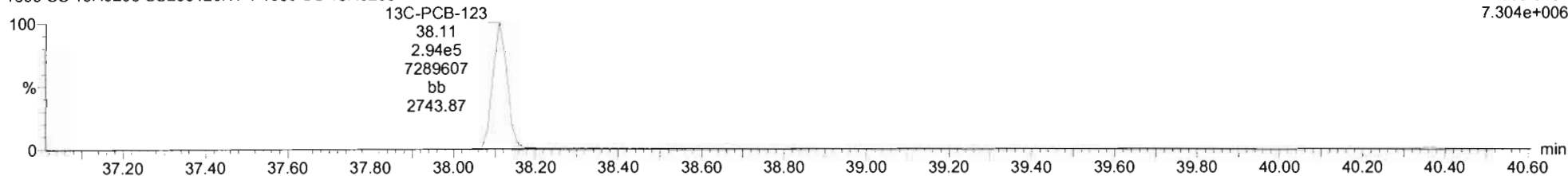
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F4:Voltage SIR,EI+
337.9210
1.100e+007



200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

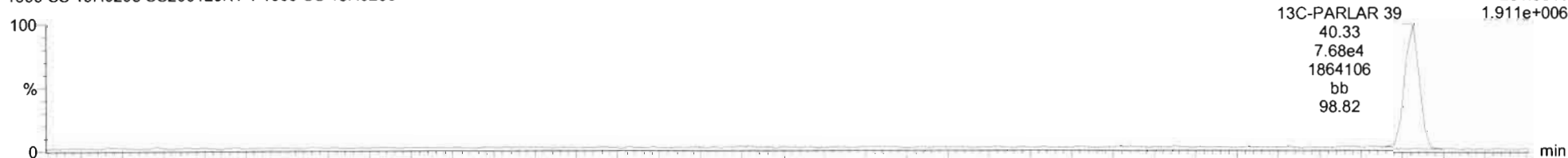
F4:Voltage SIR,EI+
339.9180
7.304e+006



13C-PARLAR 39

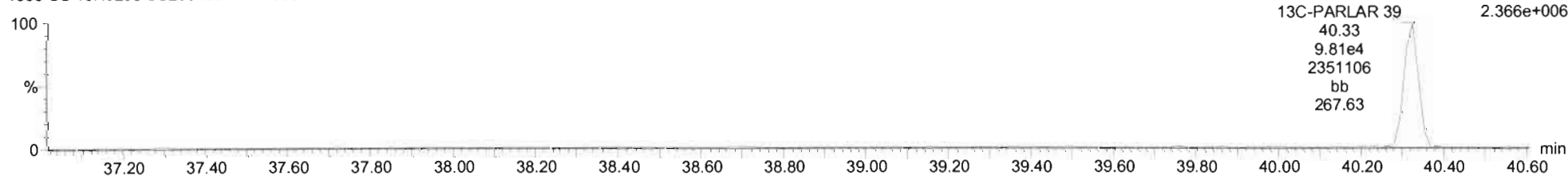
200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F4:Voltage SIR,EI+
251.9648
1.911e+006



200125K1_7
1699 SS 19H0208 SS200125K1-1 1699 SS 19H0208

F4:Voltage SIR,EI+
253.9619
2.366e+006



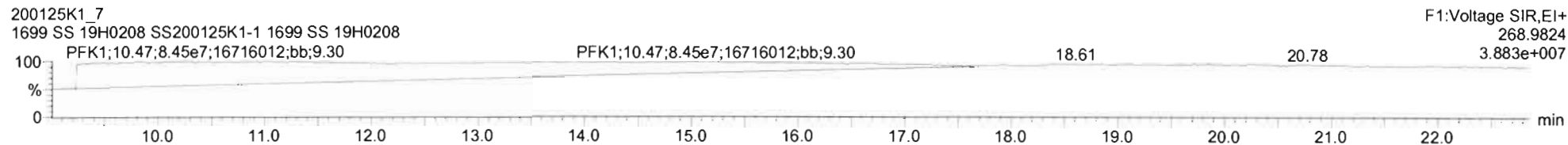
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Last Altered: Monday, January 27, 2020 09:15:59 Pacific Standard Time

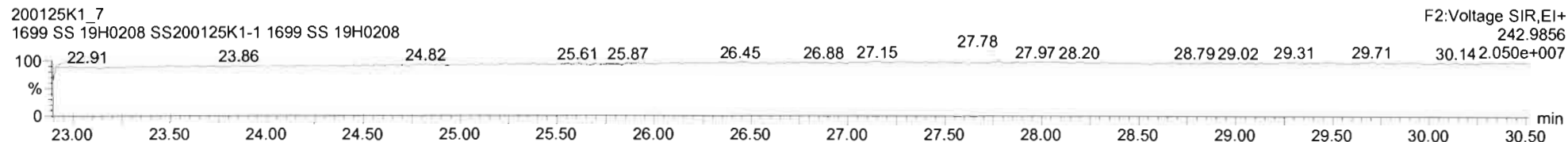
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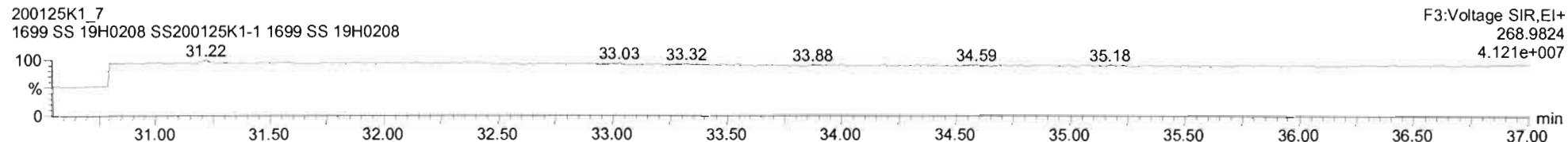
PFK1



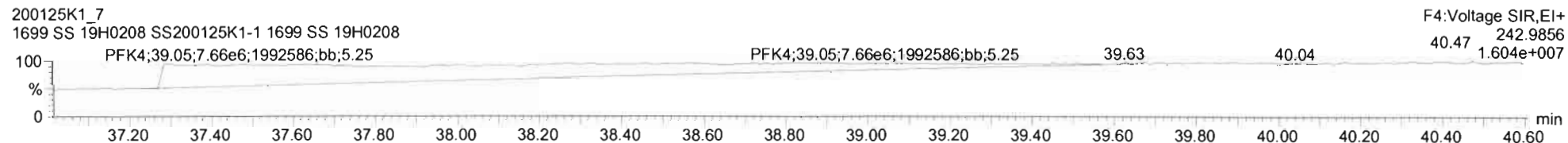
PFK2



PFK3



PFK4



PFK5

